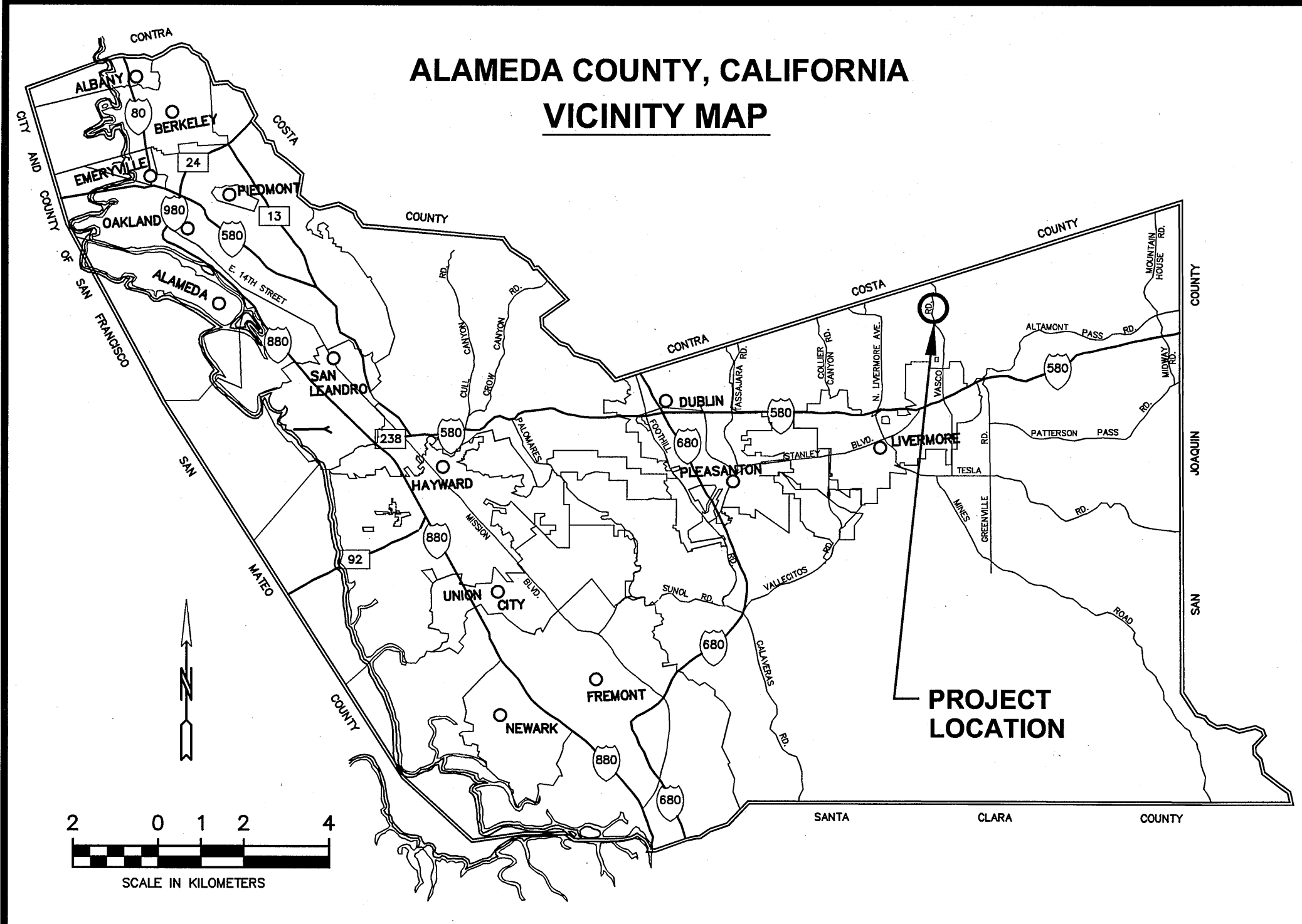


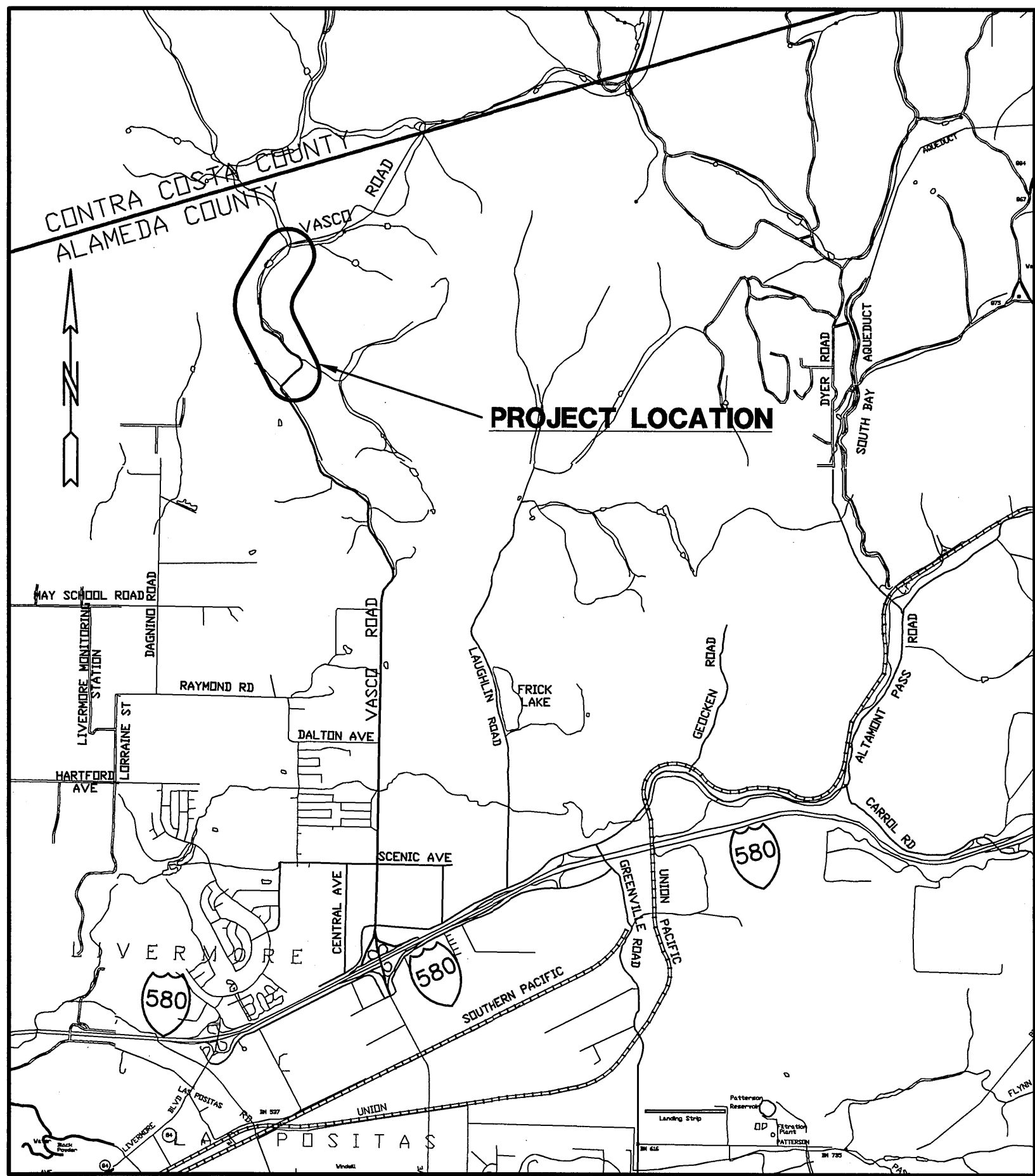
CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	REVIEWED BY:	DATE:
REAL ESTATE	REVIEWED BY:	DATE:
	SURVEY	DATE:
	TRAFFIC	DATE:
	ENVIRONMENTAL	DATE:

N:\ROAD\23265\23265-1 - Title Vasco Rd.dwg 6-19-06 09:48:38 AM joner



CONVENTIONAL SYMBOLS

PROJECT PROPERTY LINES	---	EXISTING UTILITIES:	
PROJECT EASEMENT LINES	---	WATER	W
FUTURE RIGHT OF WAY	---	GAS	G
PROJECT RIGHT OF WAY	---	GAS RETIRED	RG
CONSTRUCTION CENTER LINE	10 11	SANITARY SEWER	SS
TRAVERSE OR SURVEY LINE AND MONUMENT	---	OIL	O
CENTER LINE	---	GASOLINE	GS
CENTER LINE OF CHANNEL, CREEK, OR DITCH	---	STORM DRAIN	SD
TOE OF FILL OR SLOPE	---	ELECTRICAL	E
TOP OF CUT OR BANK	---	ELECTRICAL RETIRED	RE
CONCRETE CHANNEL	---	ELECTRICAL UNDERGROUND	UE
ROAD	---	TELEPHONE	T
EDGE OF PAVEMENT	EP	TELEPHONE UNDERGROUND	UT
PCC EXTRUDED CURB OR AC BERM	---	CABLE TV	CTV
PCC SIDEWALK, CURB GUTTER & DRIVEWAY	---	CABLE TV UNDERGROUND	UCTV
GUARD RAIL OR BARRICADE	---	TRANSMISSION LINE AND TOWER	---
EXCLUSION FENCE	---	DROP INLET	DI
BARBED FENCE	---	ELECTROLIER	EL
CHAIN-LINK FENCE	---	FIRE HYDRANT	FH
RAILROAD	---	MANHOLE	MH
BUILDING	---	MONUMENT	EXISTING PROPOSED
SHRUBBERY	---	POLE:	
MAIL BOX	---	JOINT POLE	JP
TREE	---	POWER POLE	PP
TREE TO BE REMOVED	---	TELEPHONE POLE	TP
CHANNEL SLOPE	---	GUY POLE	GP
		RIGHT OF WAY MARKER	RM
		ROADWAY SIGN	RS
		STREET NAME SIGN	SS
		WATER METER	WM
		WATER VALVE	WV
		GAS VALVE	GV



LOCATION MAP
NO SCALE

DANIEL WOLDESENBET, Ph.D., P.E.
COUNTY ENGINEER
CIVIL ENGINEER CERTIFICATE NO. 60306
EXPIRATION JUNE 30, 2008

6/28/08
PLAN APPROVAL DATE



PLANS

FOR THE RELOCATION OF

VASCO ROAD

FROM THE VICINITY OF

MILEPOSTS 3.0 TO 4.3

ALAMEDA COUNTY, CALIFORNIA

FEDERAL AID PROJECT

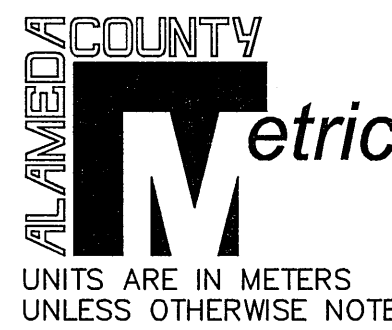
NO. RPSTPL-5933 (074)

JANUARY 2008

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	POLLUTION PREVENTION SHEET
3.	GENERAL NOTES, ABBREVIATIONS & STANDARD PLANS LIST
4.	CONSTRUCTION LINE LAYOUT
5.	NEW MONUMENT PLAN
6.-7.	SITE LAYOUT
8.-9.	TEMPORARY CONSTRUCTION ENTRANCE & STAGING AREA PLAN
10.-14.	TYPICAL SECTIONS & MISCELLANEOUS DETAILS
15.-18.	ROADWAY STAKING PLAN
19.-25.	ROADWAY PLAN
26.-34.	PROFILE & SUPERELEVATION - V LINE
35.	TEMPORARY BYPASS ROADWAY - TYPICAL CROSS SECTIONS
36.-37.	TEMPORARY BYPASS ROADWAY AND ACCESS ROAD PLAN
38.-39.	TEMPORARY BYPASS ROADWAY PROFILE & SUPERELEVATION - T LINE
40.	ACCESS ROAD - PROFILE AND TYPICAL SECTIONS
41.-42.	TEMPORARY BYPASS ROADWAY - DRAINAGE AND GRADING PLAN
43.-45.	TEMPORARY BYPASS ROADWAY - DRAINAGE PROFILE
46.	SOUTH INTERSECTION & PRIVATE DRIVEWAYS (RALPH & WINDY RIDGE) - TYPICAL SECTION & DETAILS
47.	SOUTHERN INTERSECTION - LAYOUT PLAN
48.	PRIVATE DRIVEWAY (RALPH) - PLAN & PROFILE
49.-50.	SOUTHERN INTERSECTION - PLAN & PROFILES
51.	PRIVATE DRIVEWAY (WINDY RIDGE) - PLAN & PROFILE
52.	NORTHERN INTERSECTION (EMERGENCY VEHICLE ACCESS)
53.-54.	OLD VASCO ROAD CUL-DE-SAC (MOOREHEAD)
55.-61.	DRAINAGE AND GRADING PLAN
62.-65.	DRAINAGE PROFILES
66.	DRAINAGE SCHEDULE
67.	DRAINAGE DETAILS
68.-71.	WATER QUALITY & HYDROMODIFICATION BASIN - PLAN & DETAILS
72.-73.	STORMWATER TREATMENT UNIT
74.-81.	TEMPORARY WATER POLLUTION CONTROL PLANS
82.-89.	EROSION CONTROL PLAN
90.-95.	LANDSCAPING PLAN & DETAILS
96.-102.	UTILITY PLAN
103.-105.	STREET LIGHTING & ELECTRICAL DETAILS
106.-110.	SIGNING & STRIPING PLAN
111.	CONSTRUCTION AREA SIGNS
112.-133.	CONSTRUCTION STAGING PLAN - STAGE 1, 2, 2A, 2B, 2C, 3, & 4
134.-137.	EMBANKMENT SUBDRAINAGE LAYOUT
138.	REINFORCED EMBANKMENT DETAILS
139.	REINFORCED EMBANKMENT
140.	RETAINING WALLS - TYPICAL SECTIONS & DETAILS
141.	RETAINING WALLS - LAYOUT
142.	RETAINING WALL 1 - PROFILE
143.	RETAINING WALL 2 - PROFILE
144.-145.	CROSS SECTIONS - V LINE

THE CONTRACTOR SHALL POSSESS A CLASS A, OR A CLASS C-12 LICENSE AT THE TIME THIS CONTRACT IS AWARDED.



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

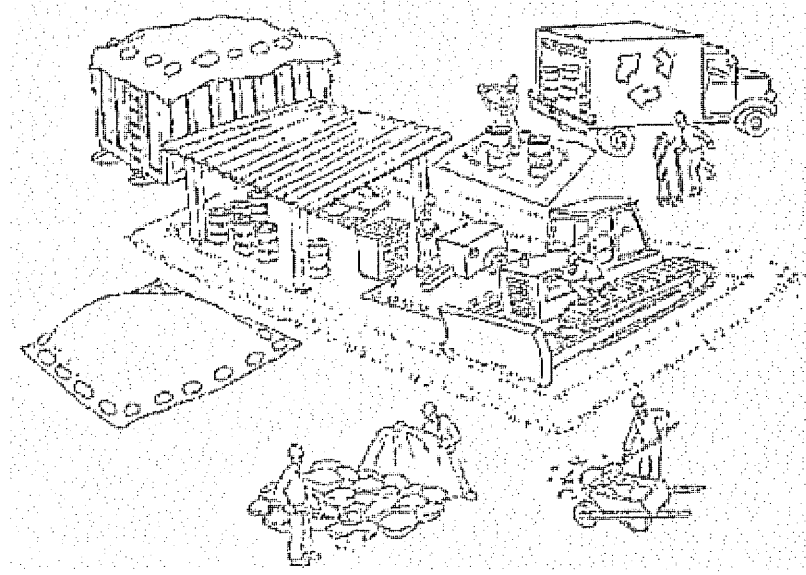
TITLE SHEET

SCALE	AS SHOWN
DATE	JAN 2008
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	1 OF 145
FILE NO.	U-357-6

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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Pollution Prevention - It's Part of the Plan



Materials storage & spill cleanup

Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- Use (but don't overuse) reclaimed water for dust control as needed.
- Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with Alameda County Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

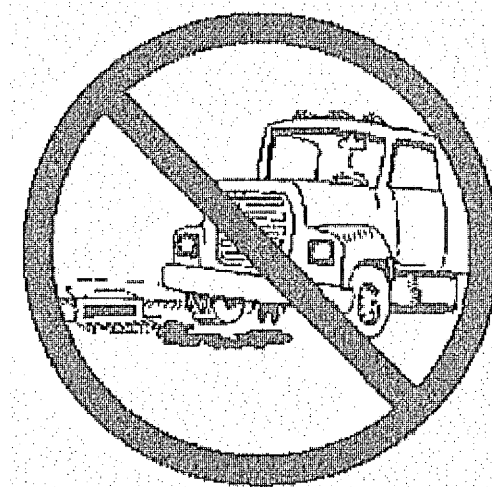
- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Report any hazardous materials spills immediately! Dial 911 or Alameda County Public Works Agency dispatch at (510) 670-5500

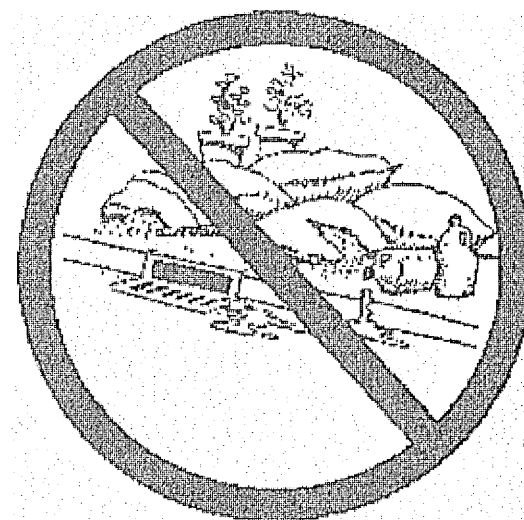
Vehicle and equipment maintenance & cleaning

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Earthwork & contaminated soils

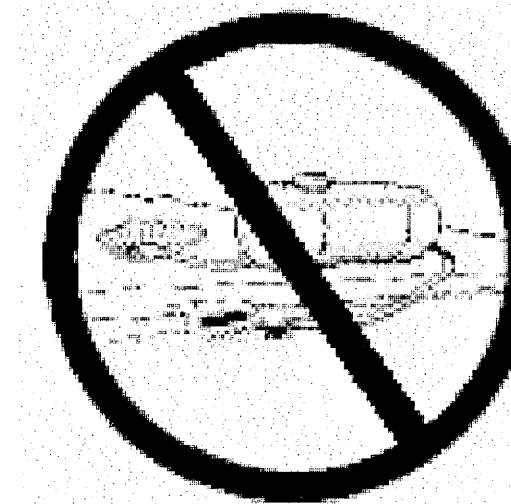
- Keep excavated soil on the site where it is least likely to collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- 
- A circular prohibition sign with a diagonal slash over a landscape illustration. The illustration shows a hillside with trees and a road, with a small figure of a person standing on the road. The sign is a thick black circle with a diagonal slash from the top-left to the bottom-right. The landscape inside the circle shows a hillside with trees and a road, with a small figure of a person standing on the road.
- Earth moving activities are only allowed during dry weather by permit and as approved by the County Inspector in the Field.
 - Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
 - If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.
- If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of contaminated soil according to their instructions.

Dewatering operations

- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- Be sure to notify and obtain approval from the Engineer before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

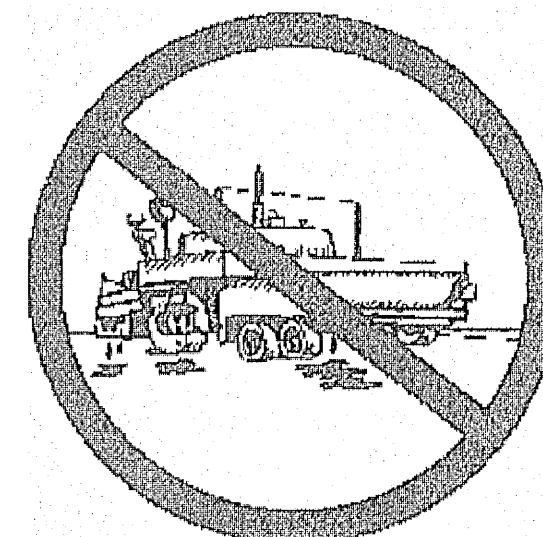


Saw cutting

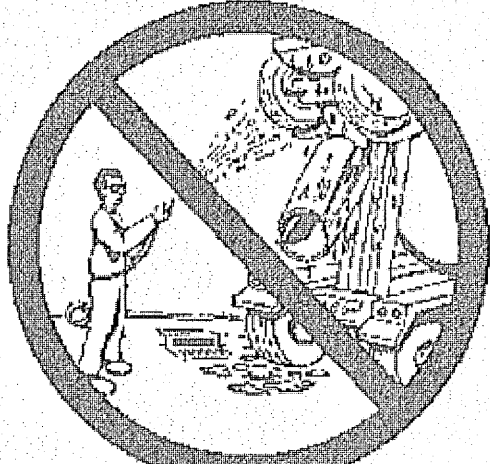
- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If saw cut slurry enters a catch basin, clean it up immediately.

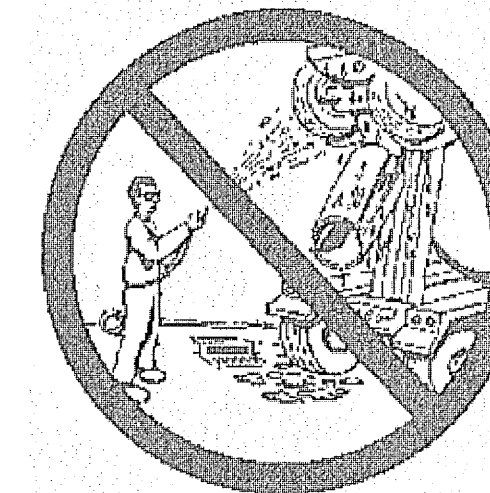
Paving/asphalt work

- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt concrete pavement.

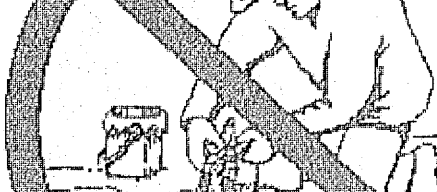


Concrete, grout, and mortar
storage & waste disposal

- Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
 - Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.
- 
- Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street, or storm drain.
 - If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.



Painting

- Never rinse paint brushes or materials in a gutter or street!
 - Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.
- If you can't use a sink, direct wash water to a dirt area and spade it in.
- Paint out excess oil-based paint before cleaning brushes in thinner.
 - Filter paint thinners and solvents for reuse whenever possible.
- Dispose of oil-based paint sludge and unusable thinner as hazardous waste.
- 
- A black and white illustration of a person painting a wall, with a large 'X' over the scene, indicating that painting in a gutter or street is prohibited.

[illegible]

ABBREVIATIONS

CALTRANS STANDARD PLANS - JULY 2004

- | | | | |
|----------|--|----------|---------------------------------|
| AB | AGGREGATE BASE | N | NORTH |
| AC | ASPHALT CONCRETE | NTS | NOT TO SCALE |
| ACP | ASBESTOS CEMENT PIPE | O.C. | ON CENTER |
| ANLA | AMERICAN NURSERY & LANDSCAPE ASSOCIATION | OD | OUTSIDE DIAMETER |
| APPROX | APPROXIMATE | OG | ORIGINAL GROUND |
| AS | AGGREGATE SUBBASE | PCC | POINT OF COMPOUND CURVE, |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | | PORTLAND CEMENT CONCRETE |
| ATPB | ASPHALT TREATED PERMEABLE BASE | PED | PEDESTRIAN |
| BC | BEGINNING OF HORIZONTAL CURVE | PERF | PERFORATED |
| BEG | BEGIN | PERM MTL | PERMEABLE MATERIAL |
| BKF | BACKFILL | PG&E | PACIFIC GAS & ELECTRIC COMPANY |
| BVC | BEGINNING OF VERTICAL CURVE | PI | POINT OF INTERSECTION |
| B/W | BACK OF SIDEWALK | P/L | PROPERTY LINE |
| C | CUT | POC | POINT OF HORIZONTAL CURVE |
| C-C | CENTER TO CENTER | POT | POINT OF TANGENCY |
| C&G | CURB AND GUTTER | PPP | PERFORATED PLASTIC PIPE |
| CDS | CONTINUOUS DEFLECTIVE SEPARATION | PRC | POINT OF REVERSE CURVE |
| CL | CENTER LINE | PT | ANGLE POINT |
| CL | CLASS, CHAIN LINK | PVC | POLYVINYL CHLORIDE |
| CLR | CLEAR, CLEARANCE | PVI | POINT OF VERTICAL INTERSECTION |
| CMP | CORRUGATED METAL PIPE | PVMT | PAVEMENT |
| CONC | CONCRETE | R | RADIUS, RADIAL, RIGHT |
| CPP | CORRUGATED PLASTIC PIPE | RCB | REINFORCED CONCRETE BOX |
| D | DEPTH | RCP | REINFORCED CONCRETE PIPE |
| DET | DETAIL, DETOUR | RE | ELECTRIC LINE REMOVED BY OTHERS |
| DI | DRAINAGE INLET, DROP INLET | REINF | REINFORCED, REINFORCEMENT |
| DIA | DIAMETER | REV | REVISED |
| DWG | DRAWING | RG | RETIRED GAS LINE |
| E | EAST, ELECTRIC LINE | RSP | ROCK SLOPE PROTECTION |
| EBMUD | EAST BAY MUNICIPAL UTILITY DISTRICT | RR | RAILROAD |
| EC | END OF HORIZONTAL CURVE | RT | RIGHT |
| ELEV, EL | ELEVATION | RW | REDWOOD, RETAINING WALL |
| EMB | EMBANKMENT | R/W | RIGHT-OF-WAY |
| EP | EDGE OF PAVEMENT | S | SLOPE, SOUTH |
| ESA | ENVIRONMENTALLY SENSITIVE AREA | SD | STORM DRAIN |
| ETW | EDGE OF TRAVEL WAY | SHT | SHEET |
| EVC | END OF VERTICAL CURVE | SRW | SEGMENTED RETAINING WALL |
| EX, (E) | EXISTING | SS | SANITARY SEWER |
| EXC | EXCAVATION | SSRB | SURVEY SET REBAR WITH 3/8" CAP |
| F | FILL | STA | STATION |
| FG | FINISHED GRADE | STD | STANDARD |
| FWHA | FEDERAL HIGHWAY ADMINISTRATION | SWTU | STORM WATER TREATMENT UNIT |
| FL | FLOW LINE | SYM | SYMMETRIC, SYMMETRICAL |
| g | GRAM | T | TANGENT LENGTH, TELEPHONE LINE |
| G | GAS LINE | TC | TOP OF CURB |
| GA | GAUGE | TCE | TEMPORARY CONSTRUCTION EASEMENT |
| gal. | GALLON | TEMP | TEMPORARY |
| GALV | GALVANIZED | TG | TOP OF GRADE |
| H | HEIGHT | TW | TOP OF WALL |
| HOR | HORIZONTAL | TYP | TYPICAL |
| HP | HINGE POINT, HORSEPOWER | UT | UNDERGROUND TELEPHONE LINE |
| ID | INSIDE DIAMETER | UV | ULTRAVIOLET |
| INV, IE | INVERT GRADE ELEVATION | VAR | VARIABLE, VARIES |
| kg | KILOGRAM | VC | VERTICAL CURVE |
| kPa | KILOPASCAL | VER | VERTICAL |
| kV | KILOVOLT | W | WATER LINE, WEST, WIDTH |
| L | LENGTH, LENGTH OF CURVE, LEFT | Δ | DELTA (ANGLE OF CURVATURE) |
| LC | LENGTH OF CHORD | ø | DIAMETER, SIGNAL PHASE |
| LOL | LAYOUT LINE | | |
| LT | LEFT | | |
| m | METER | | |
| MAINT | MAINTENANCE | | |
| MAX | MAXIMUM | | |
| MBGR | METAL BEAM GUARD RAIL | | |
| MH | MANHOLE | | |
| MIN | MINIMUM | | |
| mm | MILLIMETER | | |
| MON | MONUMENT | | |
| MPa | MEGAPASCAL | | |
| MSE | MECHANICALLY STABILIZED EMBANKMENT | | |
| MTL | MATERIAL | | |

- | | |
|----------|---|
| A10A | ACRONYMS AND ABBREVIATIONS (A-L) |
| A10B | ACRONYMS AND ABBREVIATIONS (M-Z) |
| A10C | SYMBOLS (SHEET 1 OF 2) |
| A10D | SYMBOLS (SHEET 2 OF 2) |
| A20A | PAVEMENT MARKERS AND TRAFFIC LINES, TYPICAL DETAILS |
| A20B | PAVEMENT MARKERS AND TRAFFIC LINES, TYPICAL DETAILS |
| A20C | PAVEMENT MARKERS AND TRAFFIC LINES, TYPICAL DETAILS |
| A20D | PAVEMENT MARKERS AND TRAFFIC LINES, TYPICAL DETAILS |
| A24A | PAVEMENT MARKINGS - ARROWS |
| A24B | PAVEMENT MARKINGS - ARROWS |
| RSP A24C | PAVEMENT MARKINGS - SYMBOLS AND NUMERALS (UPDATED 6-6-08) |
| A40A | SHOULDER RUMBLE STRIP DETAILS - ROLLED-IN INDENTATIONS |
| A40B | SHOULDER RUMBLE STRIP DETAILS - GROUND-IN INDENTATIONS |
| A62A | EXCAVATION AND BACKFILL - MISCELLANEOUS DETAILS |
| A62B | LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL |
| A62D | EXCAVATION AND BACKFILL - CONCRETE PIPE CULVERTS |
| A62DA | EXCAVATION AND BACKFILL - CONCRETE PIPE CULVERTS (UPDATED 11-17-06) |
| A62E | EXCAVATION AND BACKFILL - CAST-IN-PLACE REINFORCED CONCRETE BOX AND ARCH CULVERTS |
| A62F | EXCAVATION AND BACKFILL - METAL AND PLASTIC CULVERTS |
| A73A | OBJECT MARKERS |
| A73B | MARKERS |
| A73C | DELINEATORS, CHANNELIZERS AND BARRICADES |
| RSP A76A | CONCRETE BARRIER TYPE 60 (UPDATED 6-6-08) |
| A76B | CONCRETE BARRIER TYPE 60 |
| A77C3 | METAL BEAM GUARD RAILING - TYPICAL LINE POST EMBEDMENT AND HINGE POINT OFFSET DETAILS |
| A77C4 | METAL BEAM GUARD RAILING - TYPICAL RAILING DELINEATION AND DIKE POSITIONING DETAILS |
| A77H1 | METAL RAILING - END ANCHOR ASSEMBLY (TYPE SFT) |
| A77I2 | METAL BEAM GUARD RAILING - BURIED POST END ANCHOR |
| A77L1 | METAL BEAM RAILING - TERMINAL SYSTEM (TYPE SRT) |
| A77L2 | METAL BEAM RAILING - TERMINAL SYSTEM (TYPE SKT) |
| A77L3 | METAL BEAM RAILING - TERMINAL SYSTEM (TYPE ET) |
| A82B1 | CRASH CUSHION (TYPE ADIEM) |
| A86 | BARBED WIRE AND WIRE MESH FENCES |
| A87B | ASPHALT CONCRETE DIKES |
| B0-3 | BRIDGE DETAILS |
| B3-8 | RETAINING WALL DETAILS No. 1 |
| B3-9 | RETAINING WALL DETAILS No. 2 |
| B3-11 | RETAINING WALL TYPE 6 - 1829 mm MAXIMUM |
| B11-47 | CABLE RAILING |
| B11-52 | CHAIN LINK RAILING TYPE 7 |
| D73 | DRAINAGE INLETS |
| D74C | DRAINAGE INLET DETAILS |
| D75A | PIPE INLETS |
| RSP D78C | INLET DEPRESSIONS - ASPHALT CONCRETE SHOULDERS (UPDATED 5-10-05) |
| D79 | PRECAST REINFORCED CONCRETE PIPE - DIRECT DESIGN METHOD |
| D80 | CAST-IN-PLACE REINFORCED CONCRETE - SINGLE BOX CULVERT |
| D82 | CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS |
| D84 | BOX CULVERT WINGWALLS, TYPES A, B AND C |
| D85 | BOX CULVERT WINGWALLS, TYPES D AND E |
| D86A | BOX CULVERT WARPED WINGWALLS |
| D86B | PIPE CULVERT HEADWALLS, ENDWALLS AND WARPED WINGWALLS |
| D87A | CORRUGATED METAL PIPE DOWNDRAIN DETAILS |
| D87B | PLASTIC PIPE DOWNDRAIN DETAILS |
| D87D | OVERSIDE DRAINS |

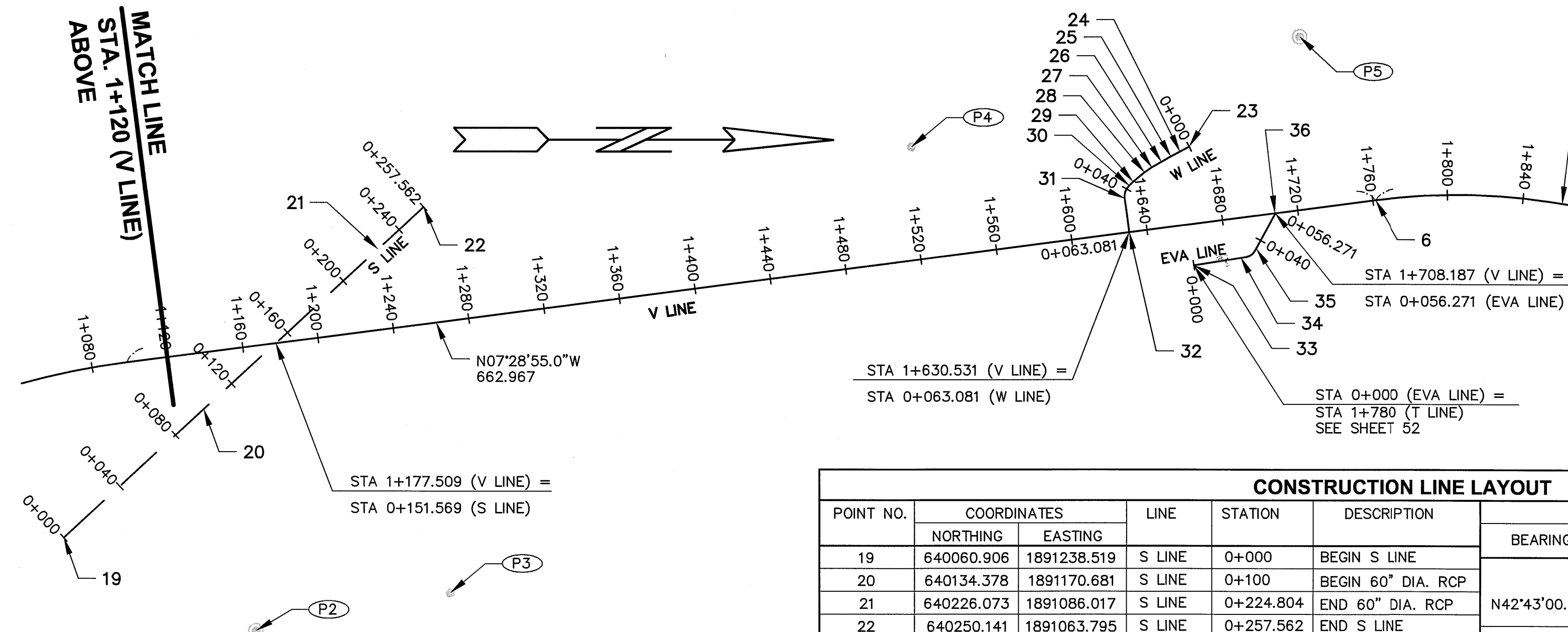
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| D88 | CONSTRUCTION LOADS ON CULVERTS |
| D88A | STRUT DETAILS FOR STRUCTURAL STEEL PIPES, ARCHES AND VEHICULAR UNDERCROSSINGS |
| D89 | PIPE HEADWALLS |
| D90 | PIPE CULVERT HEADWALLS, ENDWALLS AND WINGWALLS – TYPES A, B AND C |
| D93B | DRAINAGE INLET RISER CONNECTIONS |
| D94A | METAL AND PLASTIC FLARE END SECTIONS |
| D94B | CONCRETE FLARED END SECTIONS |
| D97A | CORRUGATED METAL PIPE COUPLING DETAILS NO. 1 |
| D97C | CORRUGATED METAL PIPE COUPLING DETAILS NO. 3 |
| D97D | CORRUGATED METAL PIPE COUPLING DETAILS NO. 4 |
| RSP D97G | CORRUGATED METAL PIPE COUPLING DETAILS NO. 7 (UPDATED 6–6–08) |
| D97H | REINFORCED CONCRETE PIPE OR NON–REINFORCED CONCRETE PIPE STANDARD AND POSITIVE JOINTS |
| D99A | STRUCTURAL SECTION DRAINAGE SYSTEM DETAILS |
| D99B | EDGE DRAIN OUTLET AND VENT DETAILS |
| D99C | EDGE DRAIN CLEANOUT AND VENT DETAILS |
| D99D | CROSS DRAIN INTERCEPTOR DETAILS |
| D102 | UNDERDRAINS |
| RSP ES–1A | ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS) (UPDATED 10–5–07) |
| RSP ES–1B | ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS) (UPDATED 10–5–07) |
| RSP ES–1C | ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS) (UPDATED 10–5–07) |
| RSP ES–6A | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 AND 21) (UPDATED 10–5–07) |
| ES–6F | ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 30 AND 31 SLIP BASE PLATE DETAILS) |
| RSP ES–7M | ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARDS – DETAILS NO. 1) (UPDATED 10–5–07) |
| RSP ES–8 | ELECTRICAL SYSTEMS (PULL BOX DETAILS) (UPDATED 10–5–07) |
| ES–9D | ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATIONS) |
| RSP ES–11 | SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS FOUNDATION INSTALLATIONS (UPDATED 10–5–07) |
| NSP H51 | EROSION CONTROL DETAILS (FIBER ROLL) (NEW 12–1–06) |
| RS1 | ROADSIDE SIGNS, TYPICAL INSTALLATION DETAILS NO. 1 |
| RS2 | ROADSIDE SIGNS – WOOD POSTS, TYPICAL INSTALLATION DETAILS NO. 2 |
| RSP T2 | TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS) (UPDATED 6–6–08) |
| T3 | TEMPORARY RAILING (TYPE K) |
| RSP T7 | CONSTRUCTION PROJECT FUNDING IDENTIFICATIONS SIGNS (UPDATED 11–17–06) |
| RSP T13 | TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS (UPDATED 5–10–05) |
| T51 | TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY SILT FENCE) |
| T54 | TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY EROSION CONTROL BLANKET) |
| T56 | TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL) |
| T57 | TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY CHECK DAM) |
| T58 | TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY CONSTRUCTION ENTRANCE) |

COUNTY OF ALAMEDA DESIGN GUIDELINES

- | | |
|---------|--|
| DG-305 | MANHOLE FRAME AND COVER TYPE 1 (JUL 1995) |
| DG-315A | FIELD INLET TYPE 3 (JUL 1996) |
| DG-317A | FRAME & GRATE - SHEET 1 OF 2 (JUL 1996) |
| DG-317 | FRAME & GRATE - SHEET 2 OF 2 (JUL 1995) |
| DG-411 | CONTRACTION JOINTS (JAN 1996) |
| DG-501 | TYPICAL PIPE SECTION - 2 SHEETS (JUL 1995) |
| DG-504 | REINFORCED CONCRETE PIPE COLLAR (JUL 1995) |
| DG-505 | PLASTIC STEP DETAIL - 2 SHEETS (JUL 1995) |
| DG-602 | CONCRETE MONUMENT SECTION WITHOUT DISC (JUL 1995) |
| DG-603 | MONUMENT DISC (JUL 1995) |
| DG-608 | SIGNING - 2 SHEETS (JUL 1995) |
| DG-701 | 1.8 METER HIGH CHAIN-LINK FENCE AND CHAIN-LINK GATES
(JUL 1995) |
| DG-704 | SILT FENCE AND DEBRIS FENCE DETAILS - SHEET 1 OF 2
(JUL 1995) |

- SD-401 MANHOLE TYPE II (JUL 1991)
SD-411 INLET TYPE I (JUL 1991)
SD-412 INLET TYPE II (JUL 1991)
SD-413 INLET TYPE III (JUL 1991)
SD-414 INLET TYPE IV (JUL 1991)
SD-416 INLET TYPE V (JUL 1991)
SD-503 REINFORCED CONCRETE CHANNEL 1:1 SIDE SLOPE (JAN 1995)
SD-514 JUNCTION BOX (AUG 1969)
SD-700 SIGN MOUNTING DETAILS - 2 SHEETS (DEC 1994)

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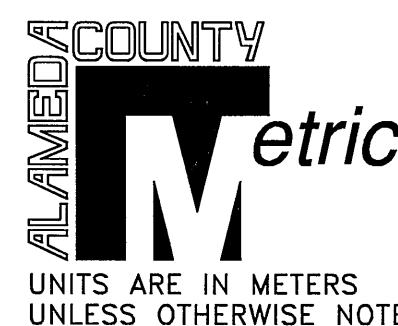
EXISTING CONTROL POINTS *						
CONTROL POINT NO.	COORDINATES		ELEVATION	DESCRIPTION	STATION	OFFSET
	NORTHING	EASTING				
P1	639841.2160	1891318.2500	250.0520	TOWILL CP MONUMENT	0+793.456	64.331 (RT)
P2	640161.9700	1891287.1730	264.8780	TOWILL CP MONUMENT	1+147.576	148.844 (RT)
P3	640264.2965	1891267.1488	286.9411	SSRB	1+251.639	142.315 (RT)
P4	640506.8288	1891031.8621	319.7579	SSRB	1+522.744	59.388 (LT)
P5	640711.1300	1890973.8350	311.5640	TOWILL CP MONUMENT	1+732.882	90.318 (LT)
P6	641273.2100	1891931.1100	262.140	MONUMENT VR2	2+327.536	9.266 (LT)

CONSTRUCTION LINE LAYOUT											
POINT NO.	COORDINATES		LINE	STATION	DESCRIPTION	LINE / CURVE DATA					
	NORTHING	EASTING				BEARING	DIST.	R	Δ	T	L
19	640060.906	1891238.519	S LINE	0+000	BEGIN S LINE	N42°43'00.2"E	257.562	—	—	—	
20	640134.378	1891170.681	S LINE	0+100	BEGIN 60" DIA. RCP						
21	640226.073	1891086.017	S LINE	0+224.804	END 60" DIA. RCP						
22	640250.141	1891063.795	S LINE	0+257.562	END S LINE						
23	640652.953	1891031.704	W LINE	0+000	BEGIN W LINE						
24	640648.156	1891034.308	W LINE	0+005.458	W LINE ANGLE PT.	S28°29'56.5"E	5.458	—	—	—	
25	640643.313	1891036.894	W LINE	0+010.948	W LINE ANGLE PT.	S28°05'54.6"E	5.490	—	—	—	
26	640638.410	1891039.652	W LINE	0+016.573	W LINE ANGLE PT.	S29°21'12.0"E	5.625	—	—	—	
27	640633.417	1891042.651	W LINE	0+022.398	W LINE ANGLE PT.	S30°59'24.0"E	5.825	—	—	—	
28	640629.434	1891045.292	W LINE	0+027.177	W LINE ANGLE PT.	S33°33'12.1"E	4.780	—	—	—	
29	640623.480	1891050.171	W LINE	0+034.875	W LINE ANGLE PT.	S39°19'48.2"E	7.697	—	—	—	
30	640621.434	1891052.172	W LINE	0+037.737	W LINE BC	S44°22'06.8"E	2.862	—	—	—	
31	640619.096	1891058.933	W LINE	0+045.153	W LINE EC	—	—	8.000	53°06'48.2"	3.999	
32	640621.431	1891076.709	W LINE	0+063.081	END W LINE	N82°31'05.0"E	17.929	—	—	7.416	
33	640655.525	1891094.084	EVA LINE	0+000	BEGIN EVA LINE	—	—	—	—	—	
34	640683.191	1891089.647	EVA LINE	0+028.020	EVA LINE BC	N09°06'43"W	28.020	—	—	—	
35	640687.480	1891086.618	EVA LINE	0+033.457	EVA LINE EC	—	—	5.965	52°13'23"	2.924	
36	640698.426	1891066.597	EVA LINE	0+056.257	END EVA LINE	N61°20'06"W	22.818	—	—	—	

BASIS OF ELEVATION:
 THE TOWILL ALUMINUM DISK ON A 5/8" REBAR MARKED "41" AS SHOWN ON THE "CONSTRUCTION STAKING CONTROL DATA" DRAWING, DWG. No. CSS-1 OF ALAMEDA COUNTY FILE No. A357-8.
 ELEVATION IS 866.36 FEET NGVD1929. TO OBTAIN NAVD1988 AND THE ELEVATION USED FOR THIS SURVEY A VERTCON SHIFT OF 2.66 FEET WAS USED AND THEN CONVERTED TO METERS.

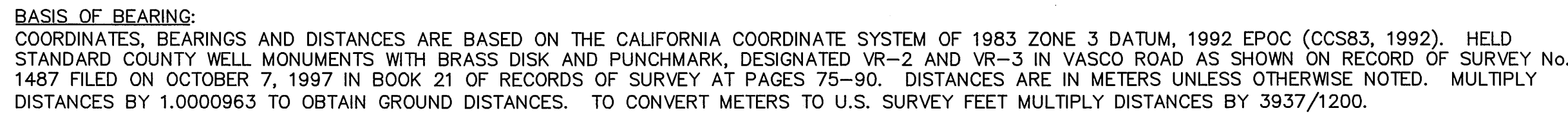
CONSTRUCTION LINE LAYOUT

**END VASCO ROAD REALIGN
STA. 2+454.174 (V LINE)**



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		APPROVED	
CONSTRUCTION LINE LAYOUT		APPROVED	
WORK ORDER NO. R23265	DRAWN <i>James Chui</i> JAMES CHUI	APPROVAL RECOMMENDED JAMES CHUI	
SHEET NO. 4 OF 145	ASSIGNED <i>James Chui</i> JAMES CHUI	APPROVAL RECOMMENDED JAMES CHUI	
FILE NO. U-357-6	CHECKED <i>James Chui</i> JAMES CHUI	DATE JAN 2008	
SCALE 1:2000		NO. _____	
DESCRIPTION		BY _____	
DATE		APPROVED	

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BASIS OF ELEVATION:
THE TOWILL ALUMINUM DISK ON A 5/8" REBAR MARKED "41" AS SHOWN ON THE "CONSTRUCTION STAKING CONTROL DATA" DRAWING, DWG. No. CSS-1 OF ALAMEDA COUNTY FILE No. A357-8.
ELEVATION IS 866.36 FEET NGVD1929. TO OBTAIN NAVD1988 AND THE ELEVATION USED FOR THIS SURVEY A VERTCON SHIFT OF 2.66 FEET WAS USED AND THEN CONVERTED TO METERS.

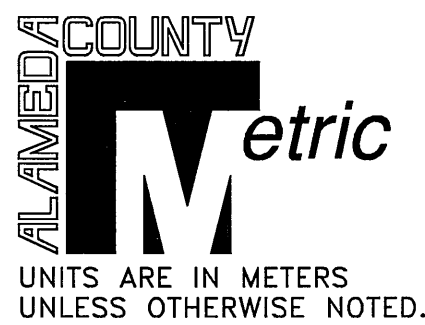
$$(\text{NGVD1929})\ 866.36 + 2.66\ (\text{VERTCON}) = 869.02\ (\text{NAVD1988})\ 869.02 * 1200 / 3937 = 264.88\ \text{m}$$

OTHER EXISTING MONUMENTS					
MONUMENT NO.	COORDINATES		DESCRIPTION	STATION	OFFSET
	NORTHING	EASTING			
VR1 **	640876.947	1891054.705	MONUMENT VR1	1+885.322	11.606 (LT)

** LOCATION OF THIS MONUMENT IS APPROXIMATE (+/- 20 mm)

* THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE EXISTING MONUMENTS AND SURVEY SET REBARS, EXCEPT FOR CONTROL POINT NO. P4.

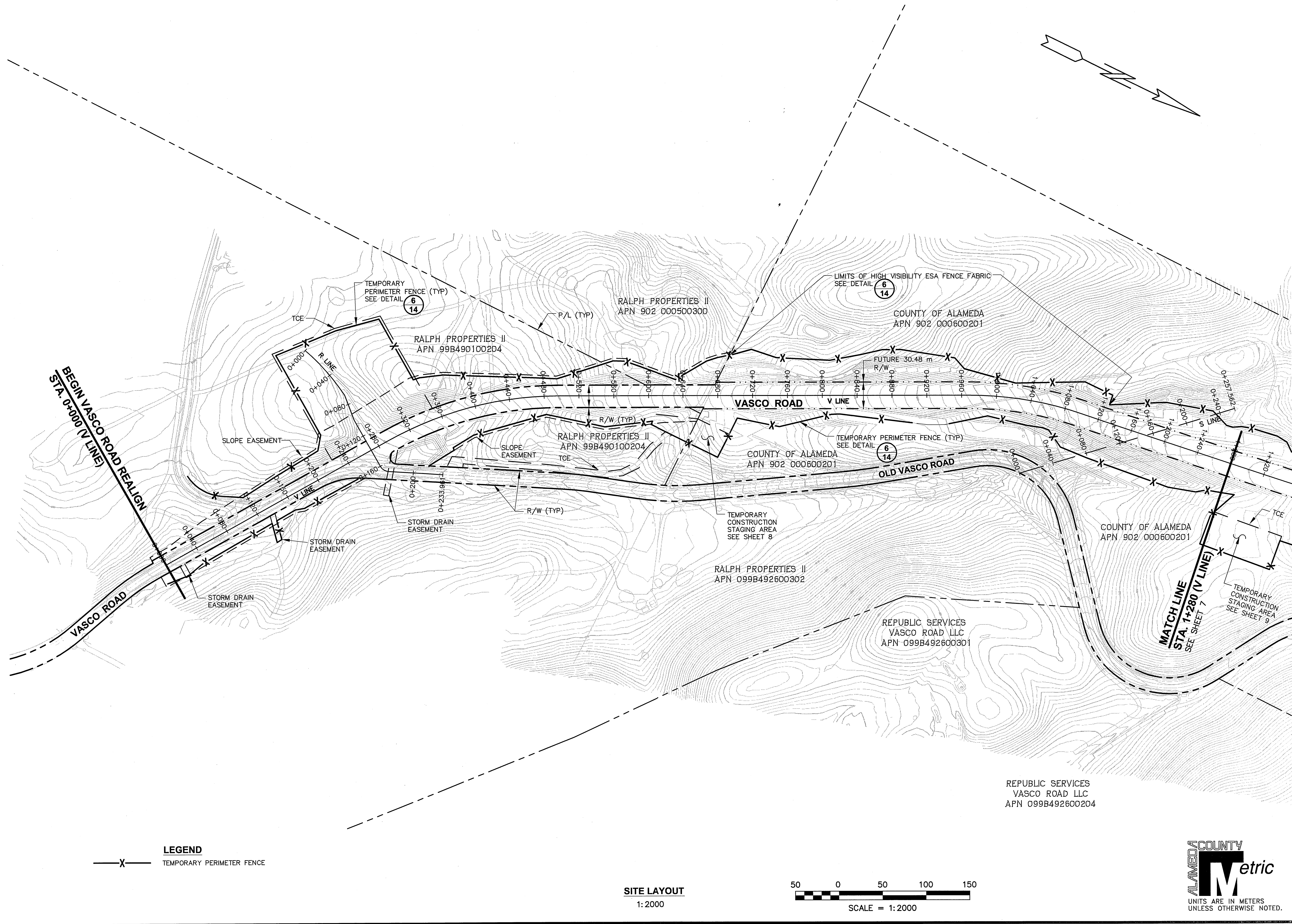
1:2000



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		DRAWN  JAMES CHU		APPROVAL RECOMMENDED  JAMES CHU	
NEW MONUMENT PLAN		DESIGNED  JAMES CHU		APPROVAL RECOMMENDED  JAMES CHU	
CHECKED  JAMES CHU		AUTHORIZED  JAMES CHU		APPROVAL RECOMMENDED JAMES CHU	
WORK ORDER NO. R23265		JAN 2008		SCALE 1:2000	
SPECIFICATION NO. 1903		DATE		SCALE	
SHEET NO. 5 OF 145		DATE		SCALE	
FILE NO. U-357-6		DATE		SCALE	

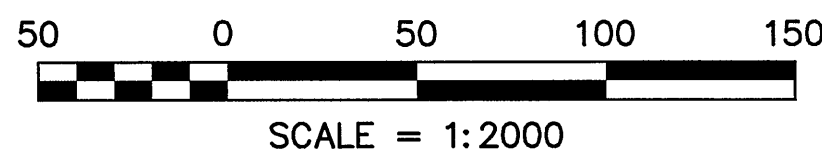
REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	CONSTRUCTION	REAL ESTATE
				MAINTENANCE	
				SURVEY	ENVIRONMENTAL
				TRAFFIC	

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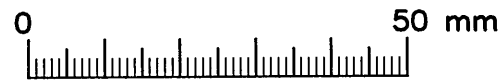


LEGEND
 —X— TEMPORARY PERIMETER FENCE

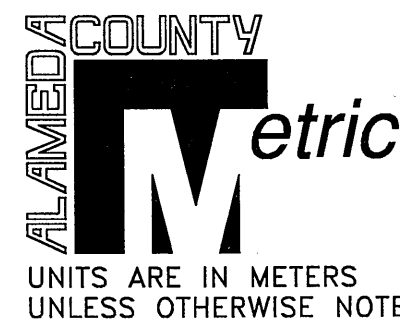
SITE LAYOUT
 1:2000



FOR REDUCED METRIC PLANS
 ORIGINAL SCALE IS IN METERS

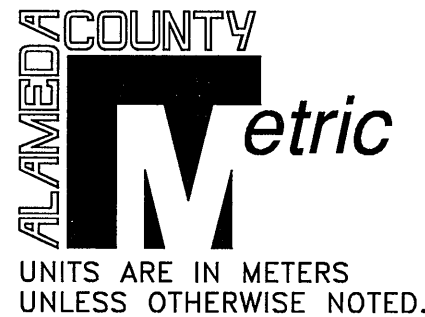


REPUBLIC SERVICES
 VASCO ROAD LLC
 APN 099B492600204



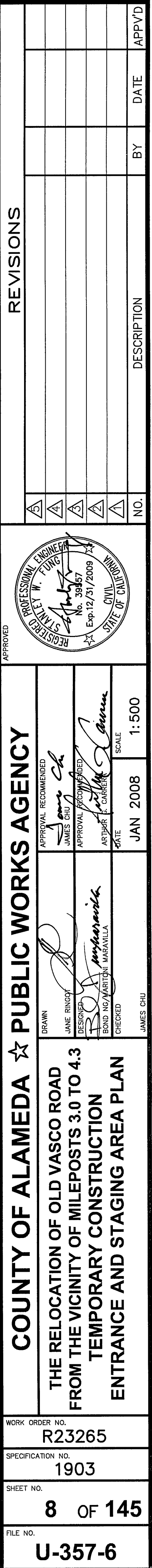
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 SITE LAYOUT				REVISIONS NO. DESCRIPTION BY DATE APPVD			
WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 6 OF 145 FILE NO. U-357-6				APPROVED APPROVAL RECOMMENDED JAMES CHU APPROVED JAMES CHU DATE JAN 2008 SCALE 1:2000			

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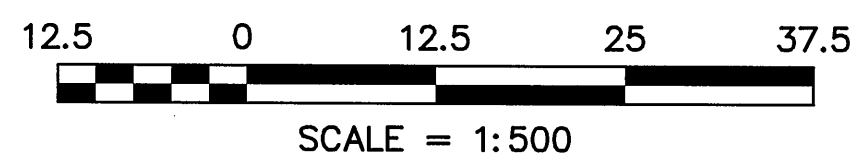


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 SITE LAYOUT		APPROVED 		REVISIONS	
WORK ORDER NO. R23265	SPECIFICATION NO. 1903	SHEET NO. 7 OF 145	FILE NO. U-357-6	APPROVAL DESIGNED:  JAMES CHU CHECKED:  ARTHUR P. MARAMBA DATE: JAN 2008 SCALE: 1:2000	NO. DESCRIPTION BY DATE APPROVD

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FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

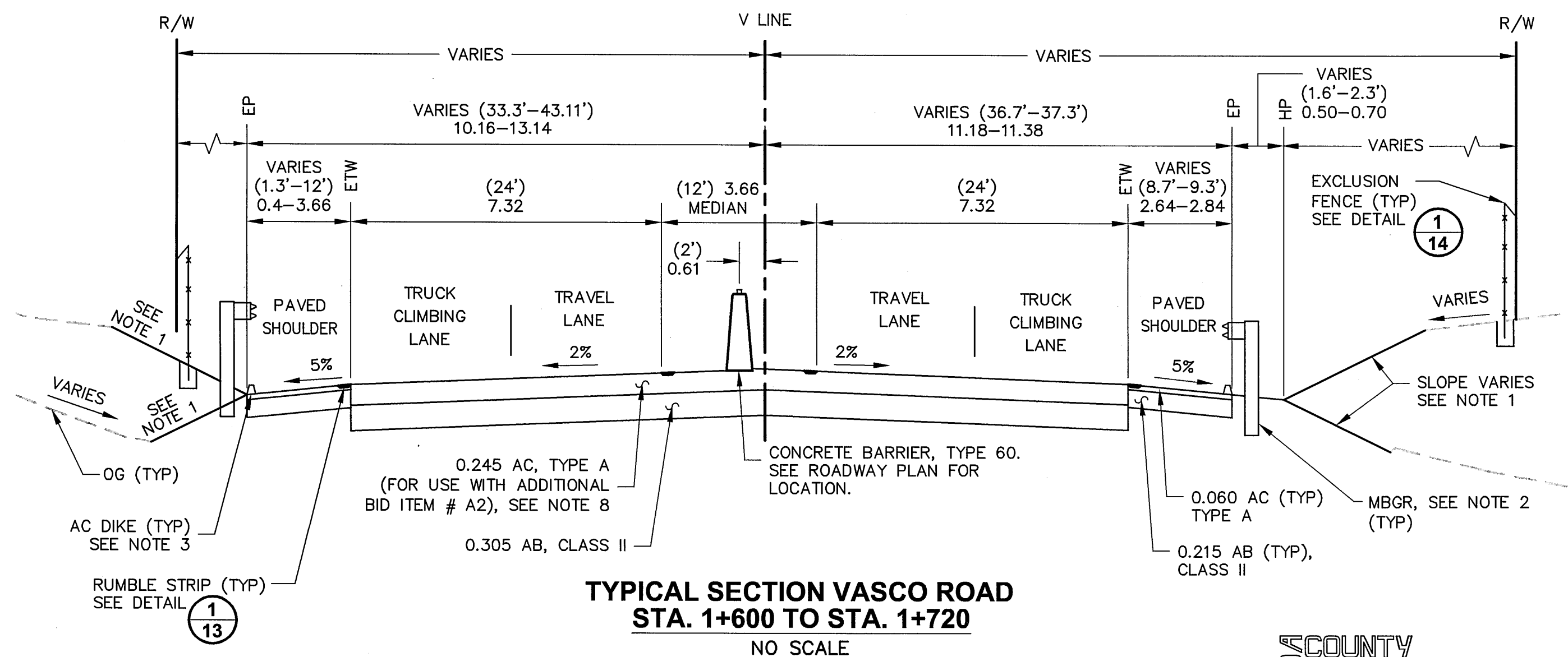
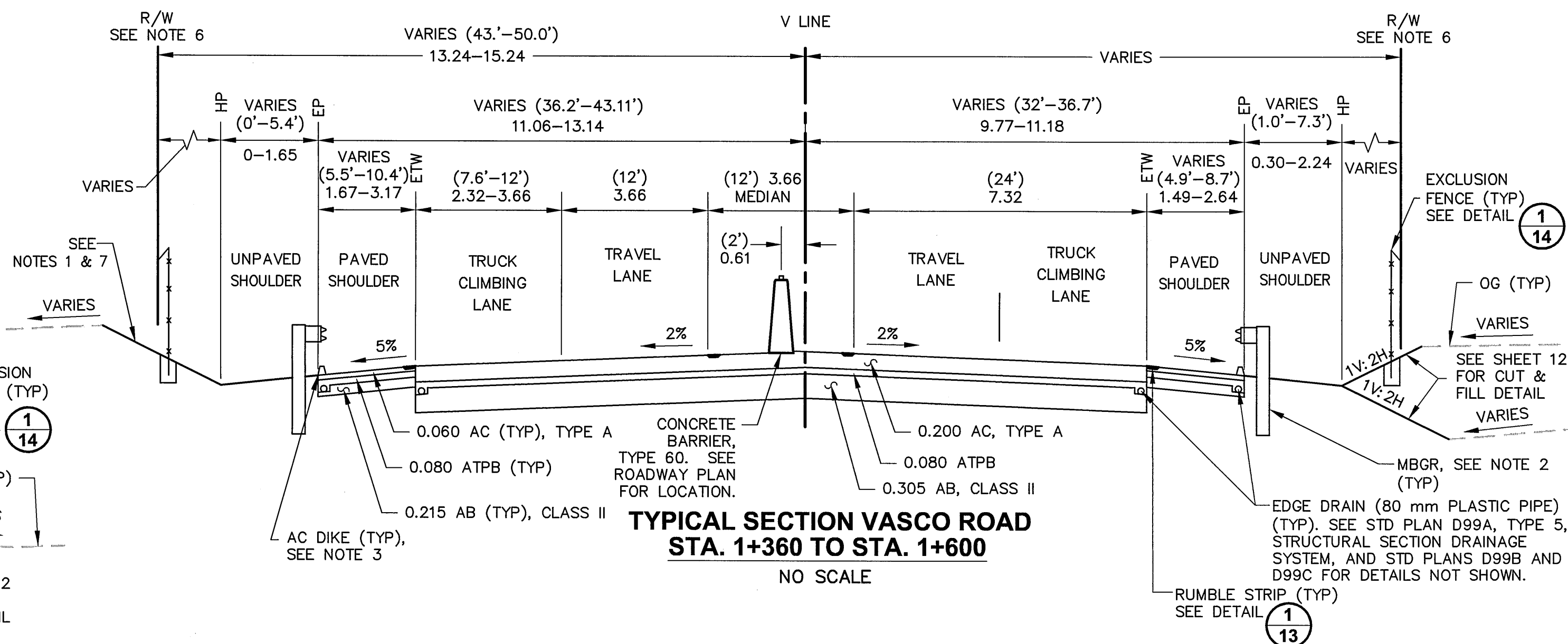
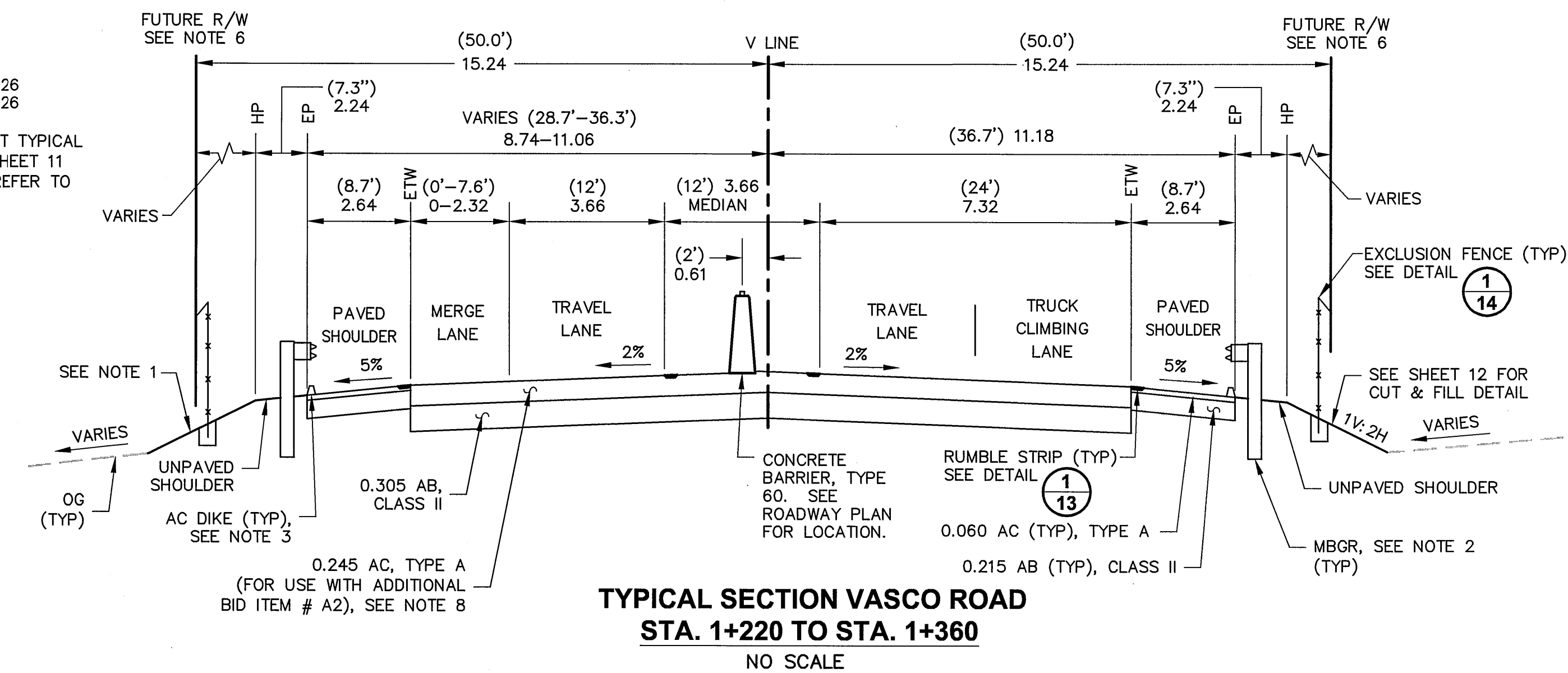
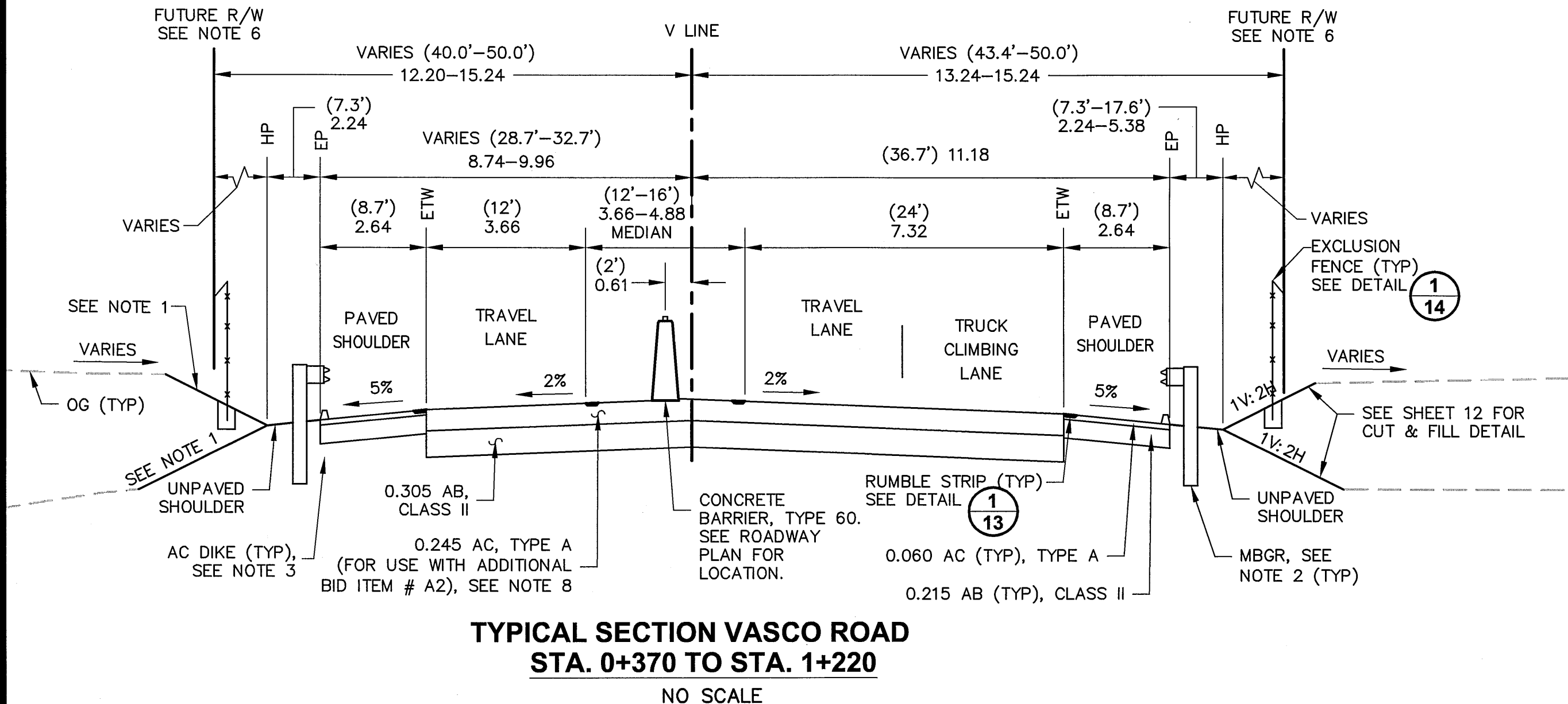
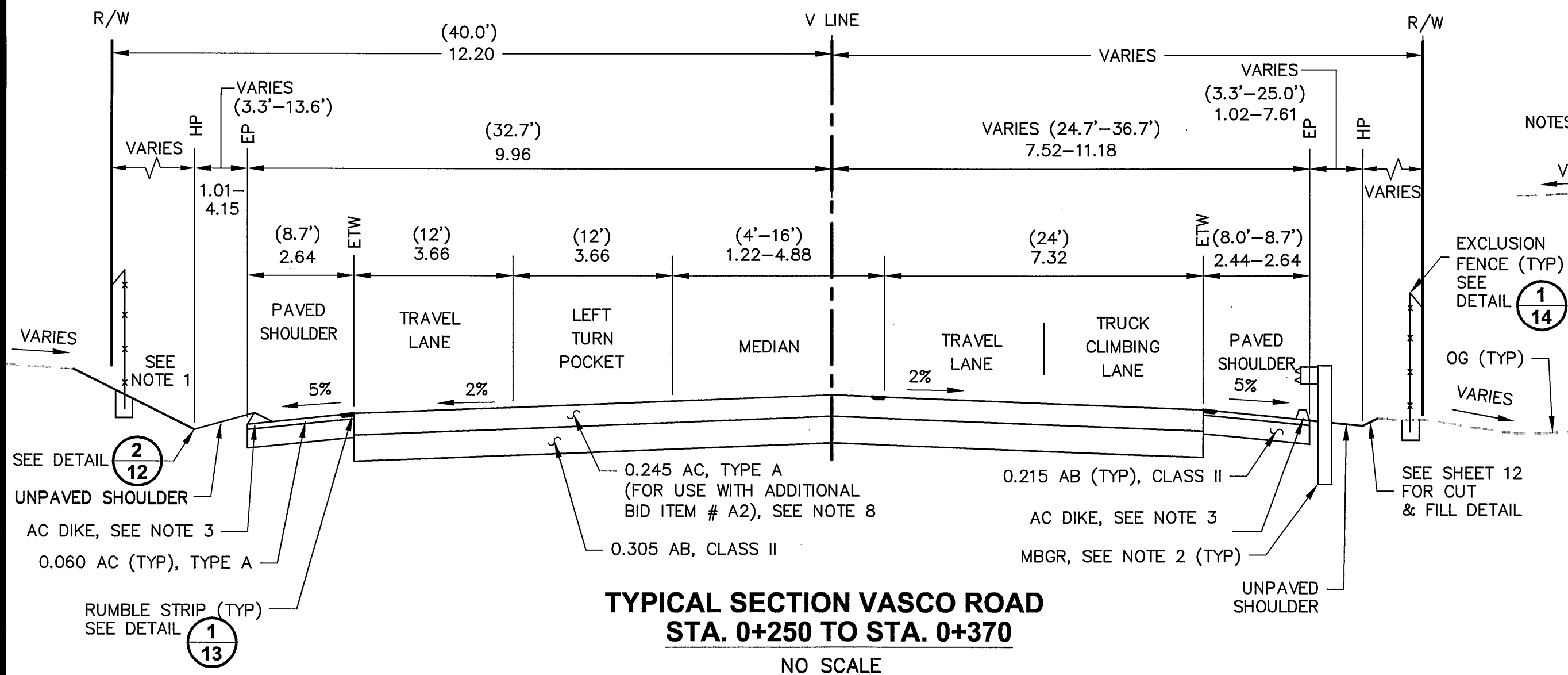
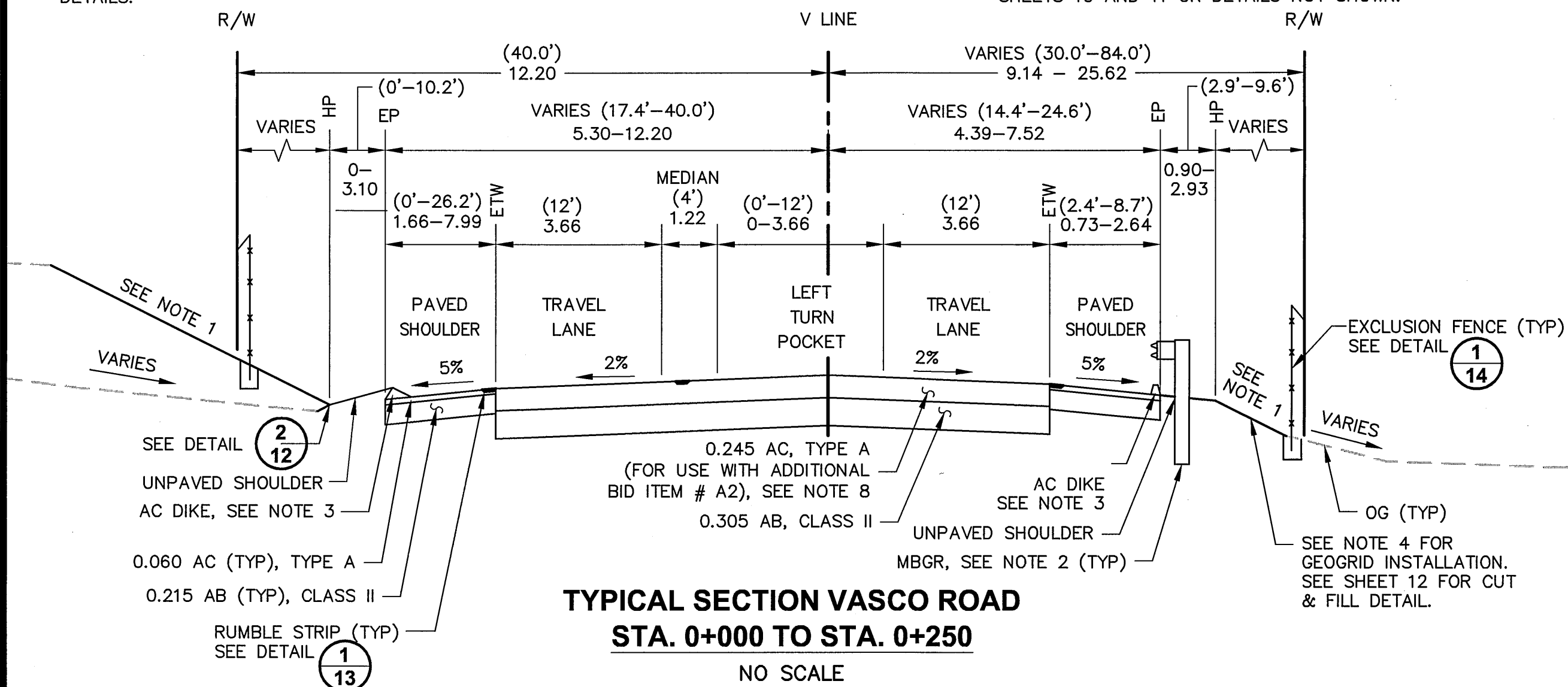


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF OLD VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY CONSTRUCTION ENTRANCE AND STAGING AREA PLAN		DRAWN JANE RUSO J.R.	APPROVAL RECOMMENDED JAMES CHU J.C.	PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. 39457 Exp. 12/31/2009 REGISTERED CIVIL STATE OF CALIFORNIA	NO. _____ BY _____ DATE _____ APPVD _____
WORK ORDER NO. R23265		DESIGNER BOB MARANILLA BOB MARANILLA B. MARANILLA			
SPECIFICATION NO. 1903		CHECKED JAMES CHU			
SHEET NO. 9 OF 145		DATE JAN 2008			
FILE NO. U-357-6		SCALE 1:500			

	REVIEWED BY:	DATE:		REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY		
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

NOTES

- | | |
|---|---|
| 1. CUT AND FILL SLOPES ARE 1V:2H AND VARIES (TYPICAL). SEE DRAINAGE & GRADING PLAN; SEE SHEET 12 FOR BENCH DETAILS. | 6. FUTURE R/W LINE (STA. 0+680± TO 1+520±) |
| 2. GUARDRAILS TYPICALLY CONSTRUCTED ALONG FILL SLOPES. SEE ROADWAY PLAN FOR LOCATION. | 7. CUT SLOPE FROM STA. 1+370 TO 1+600 (LT.):
○ 1V:3.5H BELOW ELEV. 326
○ 1V:2.0H ABOVE ELEV. 326 |
| 3. SEE ROADWAY PLAN FOR AC DIKE TYPE AND LOCATION. SEE STD PLANS A87B AND A77C4 FOR DETAILS NOT SHOWN. | 8. SEE TYPICAL SECTIONS LABELED 'ALTERNATE ASPHALT CONCRETE PAVEMENT TYPICAL SECTIONS - VASCO ROAD FOR USE WITH ADDITIONAL BID ITEM # A3' ON SHEET 11 FOR ALTERNATE ASPHALT CONCRETE PAVEMENT CONFIGURATION (ONLY). REFER TO SHEETS 10 AND 11 OR DETAILS NOT SHOWN. |
| 4. FROM STA 0+000 TO STA 0+170 INSTALL GEOGRID RIGHT SLOPE ONLY. SEE SHEET 139 FOR DETAILS. | |

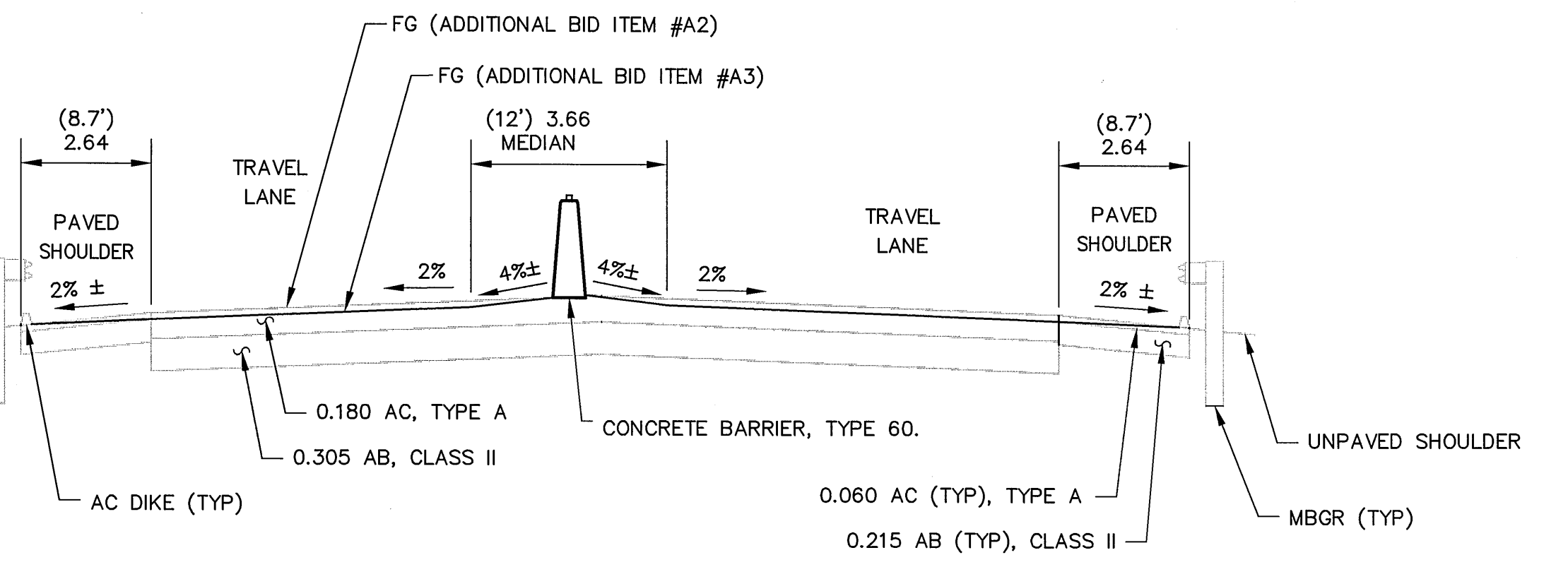
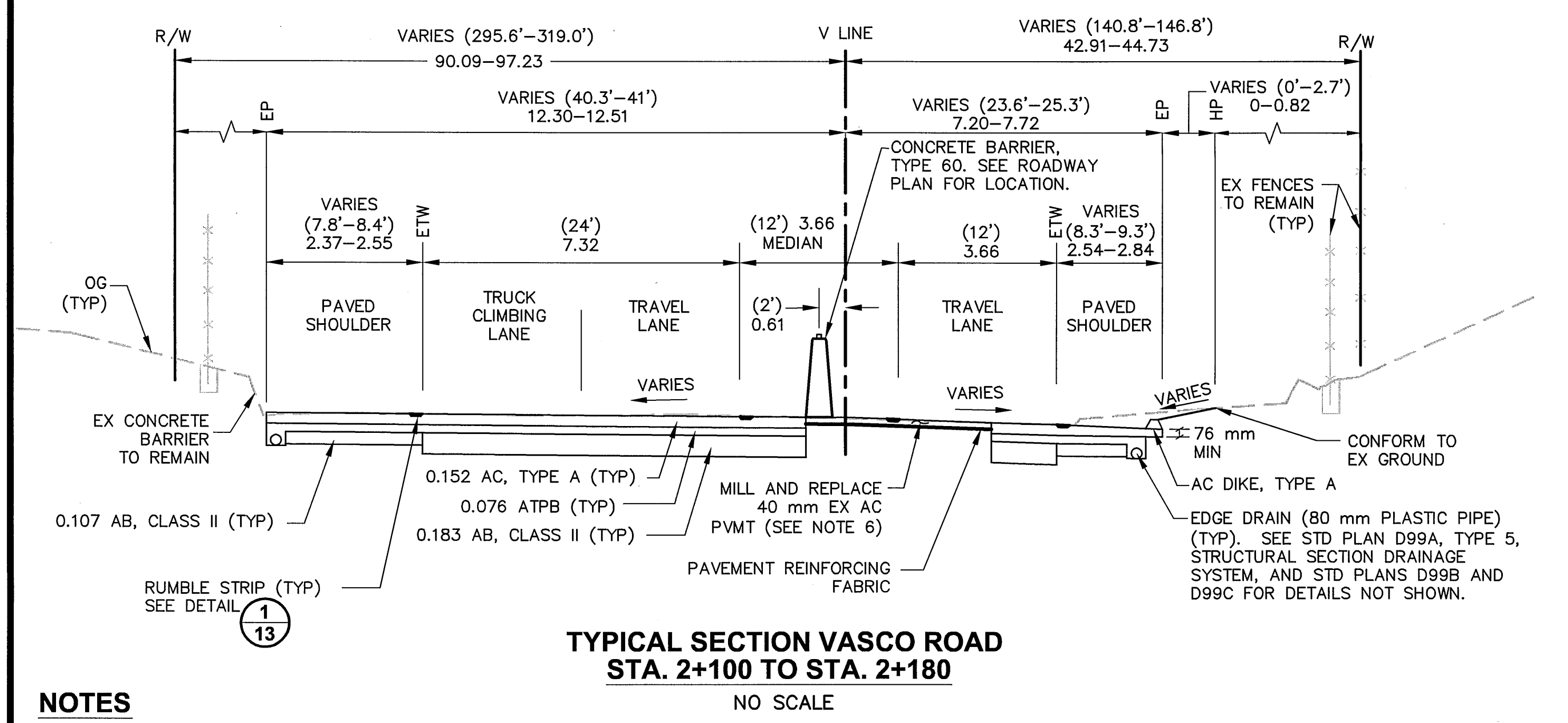
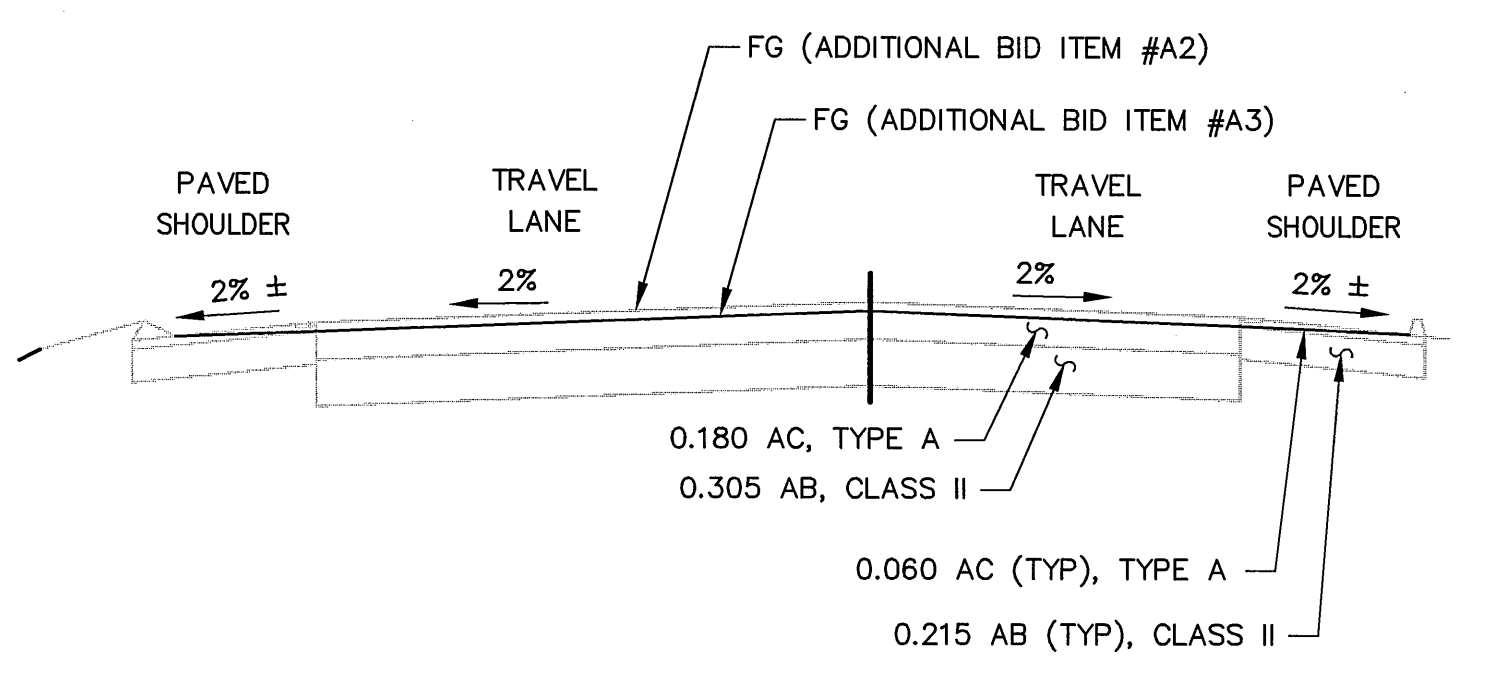
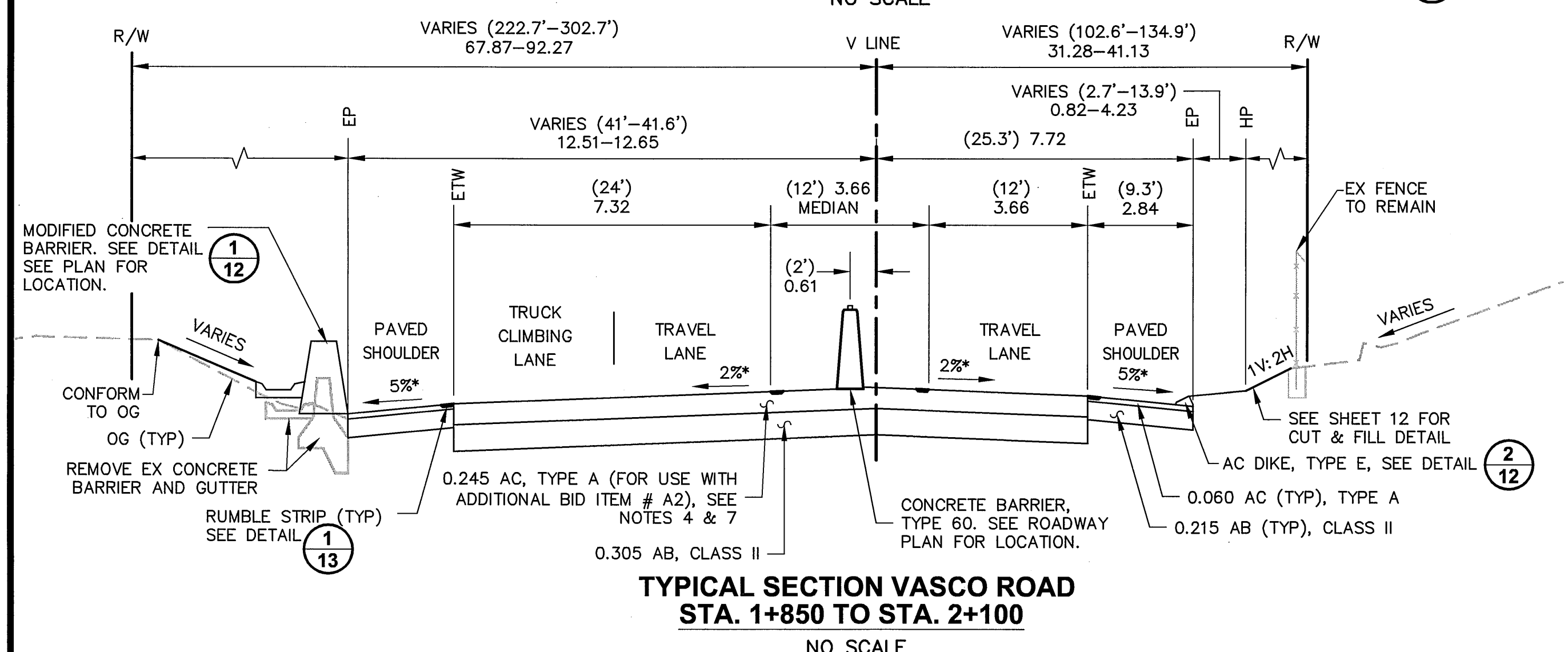
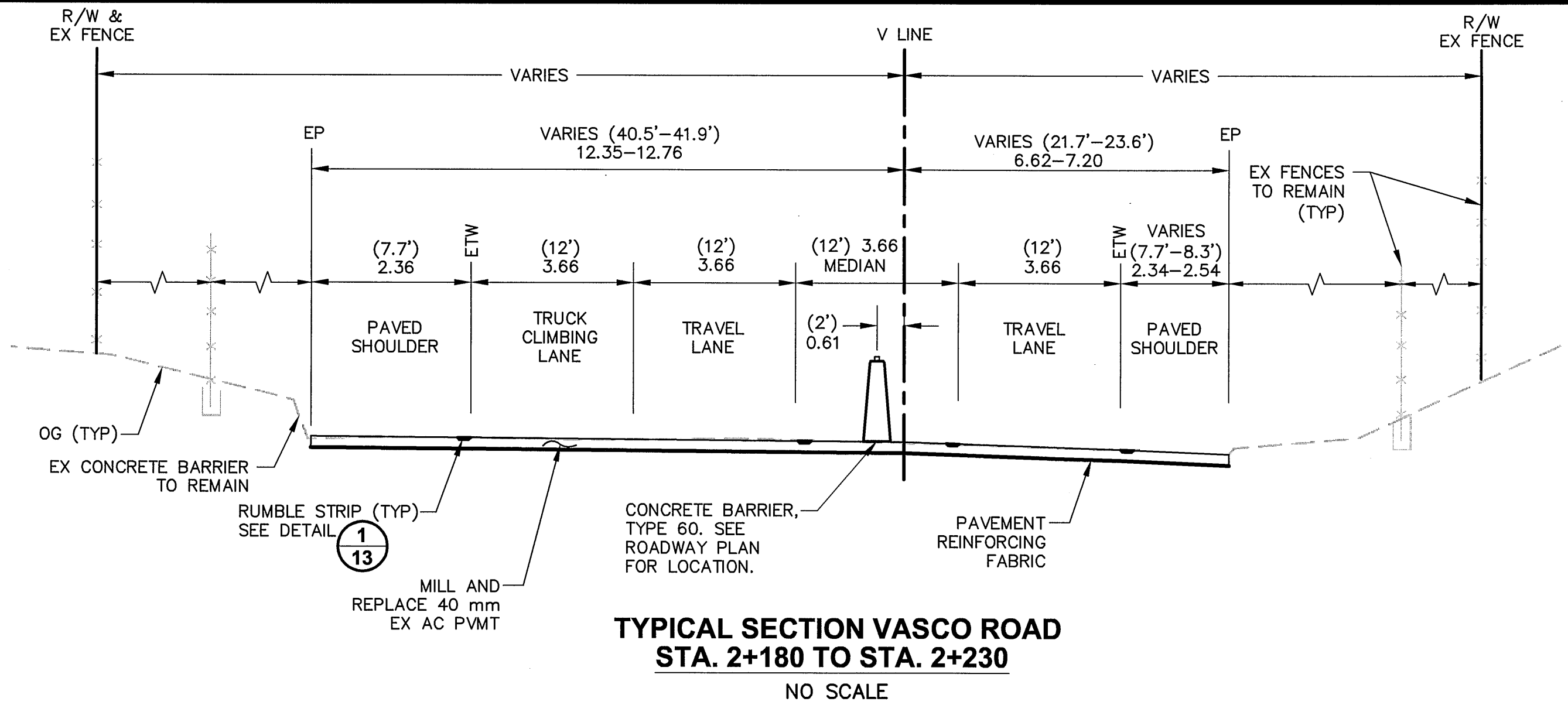
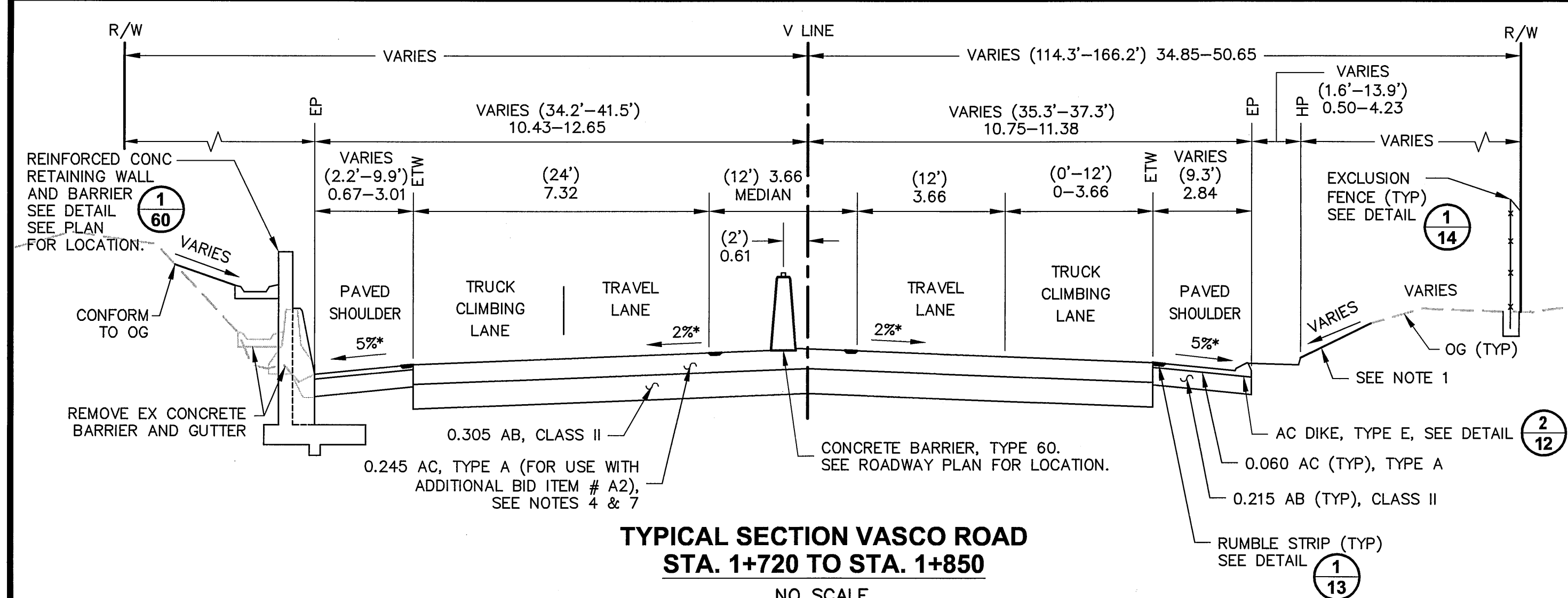


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TYPICAL SECTIONS AND MISCELLANEOUS DETAILS		DRAWN BY: <i>James Chu</i> AMBER LOANIE BOST CHECKED: <i>James Chu</i> BOND: <i>James Chu</i> DATE: JAN 2008		NO.	
WORK ORDER NO. R23265		APPROVAL RECOMMENDED JAMES CHU		DATE	
SPECIFICATION NO. 1903		APPROVAL RECOMMENDED JAMES CHU		DATE	
SHEET NO. 10 OF 145		APPROVAL RECOMMENDED JAMES CHU		DATE	
FILE NO. U-357-6		APPROVAL RECOMMENDED JAMES CHU		DATE	

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	REVIEWED BY:	DATE:		REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY		
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		



- ## NOTES

1. CUT AND FILL SLOPES ARE 1V:2H AND VARIES (TYPICAL), SEE DRAINAGE & GRADING PLAN; SEE SHEET 12 FOR BENCH DETAILS.
2. GUARDRAILS TYPICALLY CONSTRUCTED ALONG FILL SLOPES. SEE ROADWAY PLAN FOR LOCATION.
3. SEE ROADWAY PLAN FOR AC DIKE TYPE AND LOCATION. SEE STD PLANS A77C4 AND A87B FOR DETAILS NOT SHOWN.
4. FROM STATION 1+720 TO STATION 1+840, EXISTING ASPHALT CONCRETE SHALL BE MILLED AND USED AS FILL FROM STATION 1+840 TO STATION 2+100 (SEE SECTION MILLING IN SPECIAL PROVISIONS FOR ADDITIONAL DETAILS). EXISTING ASPHALT CONCRETE FROM STATION 1+840 TO STATION 2+100 SHALL BE MILLED IN PLACE.
5. SEE SHEETS 26-34 FOR SUPERELEVATION DETAIL.
6. PAVING FOR AC OVERLAY SHALL COINCIDE WITH FINAL LIFT OF NEW STRUCTURAL AND WIDENING SECTIONS.
7. SEE TYPICAL SECTIONS ON THIS SHEET LABELED 'ALTERNATE ASPHALT CONCRETE PAVEMENT TYPICAL SECTIONS - VASCO ROAD FOR USE WITH ADDITIONAL BID ITEM # A3' FOR ALTERNATE ASPHALT CONCRETE PAVEMENT CONFIGURATION ONLY. SEE SHEETS 10 AND 11 FOR DETAILS NOT SHOWN ON THESE TYPICAL SECTIONS.



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY										REVISIONS									
WORK ORDER NO. R23265		DESIGNED AMBER LO/JANE RINGOT		APPROVAL RECOMMENDED JAMES CHU		APPROVAL 		REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. 39557 Exp. 12/31/2009		NO.		DESCRIPTION		BY		DATE		APPV'D	
SPECIFICATION NO. 1903		CHECKED JAMES CHU		DATE JAN 2008		SCALE NTS		STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER No. 39557 Exp. 12/31/2009		NO.		DESCRIPTION		BY		DATE		APPV'D	
SHEET NO. 11 OF 145		CHECKED JAMES CHU		DATE JAN 2008		SCALE NTS		STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER No. 39557 Exp. 12/31/2009		NO.		DESCRIPTION		BY		DATE		APPV'D	
FILE NO. U-357-6		CHECKED JAMES CHU		DATE JAN 2008		SCALE NTS		STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER No. 39557 Exp. 12/31/2009		NO.		DESCRIPTION		BY		DATE		APPV'D	

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MODIFIED CONCRETE BARRIER 1
-
NO SCALE

MODIFIED CONCRETE BARRIER **1A**
WITH WALL DRAIN **-**
NO SCALE

SLOPE BENCH DETAILS (FILL)
NO SCALE

SHOULDER GRAVEL SWALE 2
NO SCALE -

CONCRETE "V" DITCH SECTION **3**
NO SCALE **-**

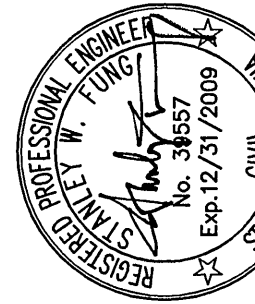
SLOPE BENCH DETAILS (CUT)
NO SCALE

305 mm (12") GRAVEL AND EARTH SWALE 4
NO SCALE

NOTES

1. CUT AND FILL SLOPES ARE 1V:2H AND VARIES (TYPICAL). SEE DRAINAGE & GRADING PLAN.
2. GUARDRAILS TYPICALLY CONSTRUCTED ALONG FILL SLOPES. SEE PLAN FOR LOCATION.
3. STA 1+380 TO STA 1+610 CONSTRUCT CONCRETE "V" DITCH. SEE DETAIL 3

REVISIONS

[illegible]

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TYPICAL SECTIONS AND MISCELLANEOUS DETAILS

WORK ORDER NO.
R23265

SPECIFICATION NO.
1903

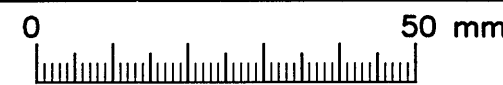
SHEET NO.
12 OF 145

FILE NO.
U-357-6

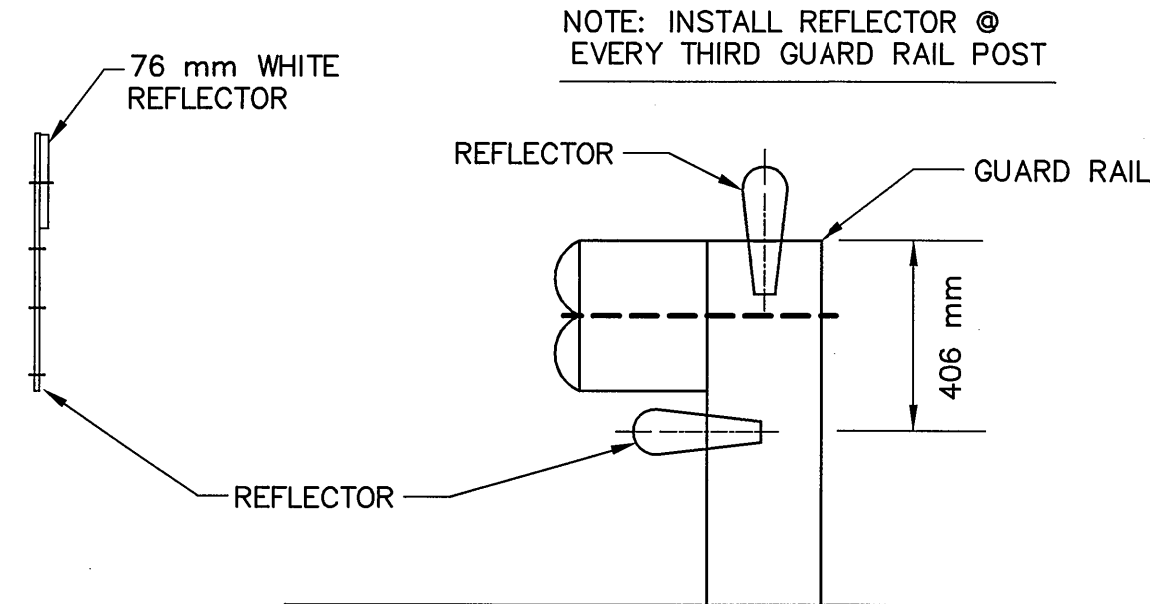
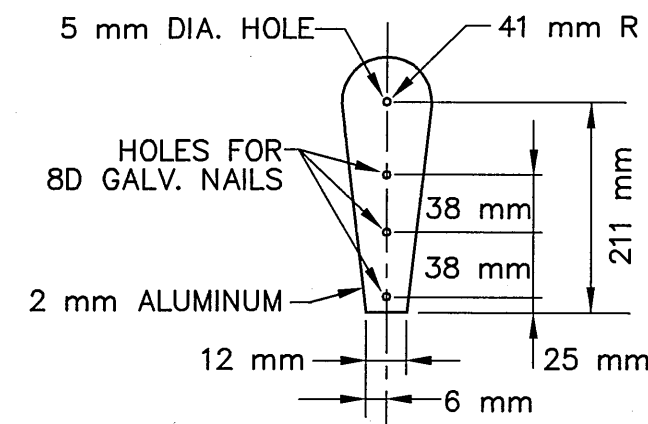


UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

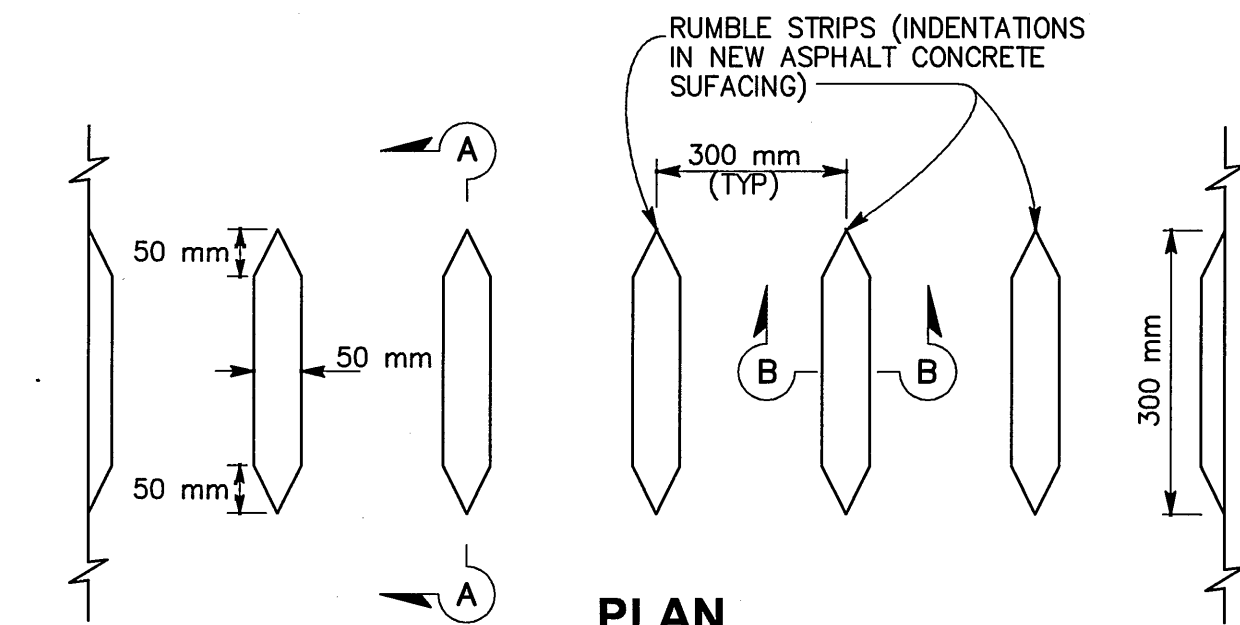


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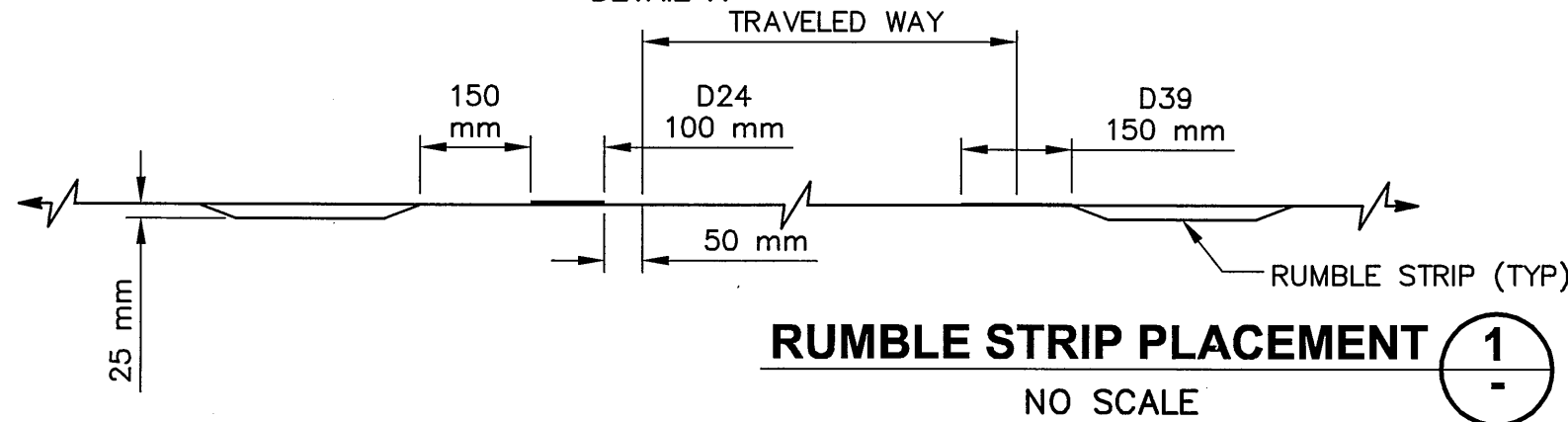
GUARDRAIL REFLECTOR ASSEMBLY

NO SCALE



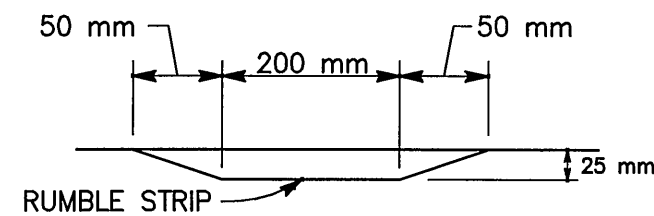
PLAN

ASPHALT CONCRETE SURFACING
ROLLED-IN INDENTATIONS
DETAIL A



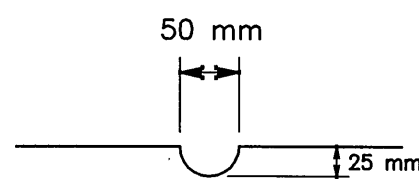
RUMBLE STRIP PLACEMENT

NO SCALE



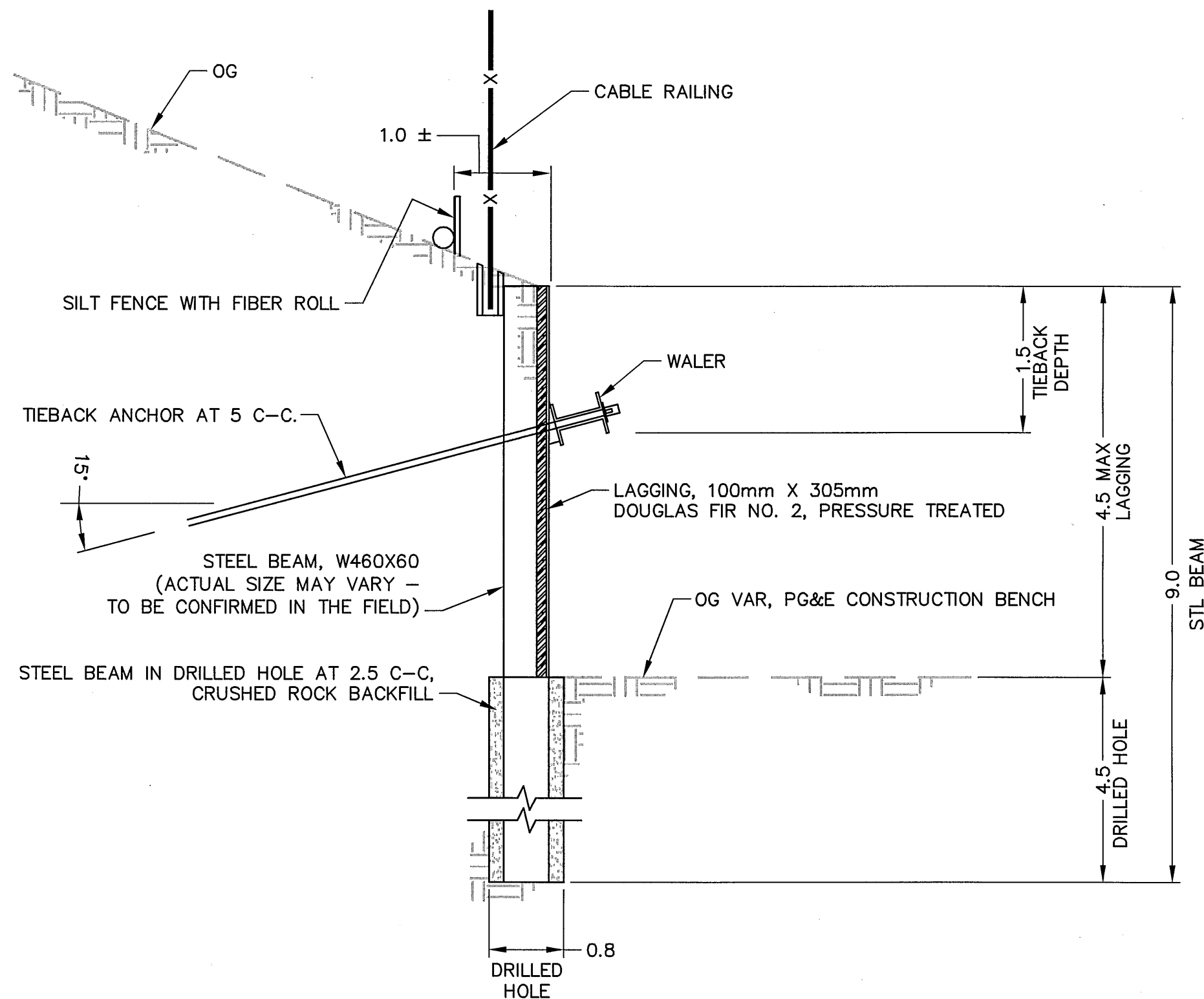
SECTION A-A

NO SCALE



SECTION B-B

NO SCALE



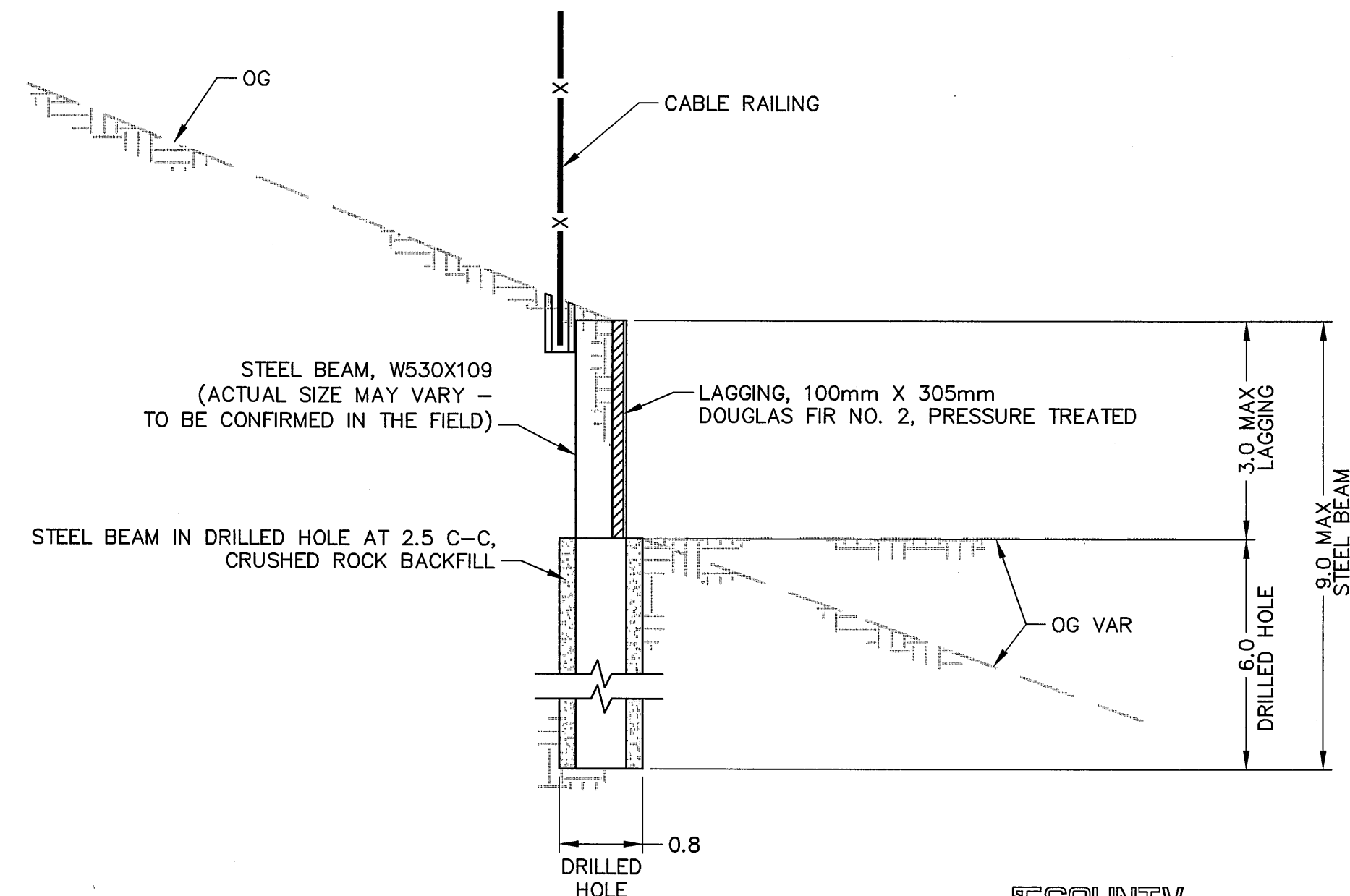
EXISTING SHORING, TYPE I

NO SCALE

NOTE: EX SHORING AND CABLE RAILING FROM PG&E GAS LINE RELOCATION PROJECT AS SHOWN ON SHEET 59 SHALL BE SALVAGED FOR USE ON PERMANENT SHORING AND RETAINING WALL AS CALLED FOR ON SHEETS 140 AND 141.

STEEL BEAM IMPERIAL EQUIVALENTS

W530X109 = W21X73
W460X60 = W18X40



EXISTING SHORING, TYPES 2 & 3

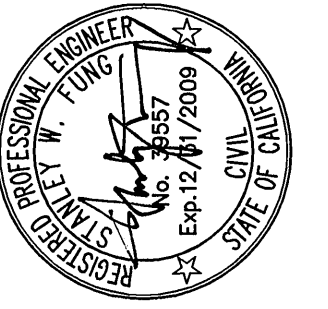
NO SCALE



UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

REVISIONS

5	4	3	2	1	NO.
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD IN THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TYPICAL SECTIONS AND MISCELLANEOUS DETAILS

WORK ORDER NO.
R23265

SPECIFICATION NO.
1903

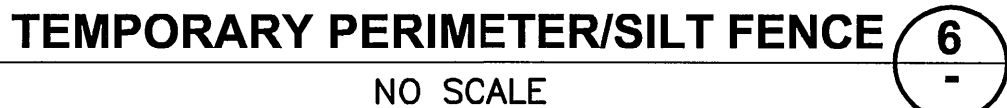
SHEET NO.

13 OF 145

FILE NO.
U-357-6

DESCRIPTION	BY	DATE	APPV'D

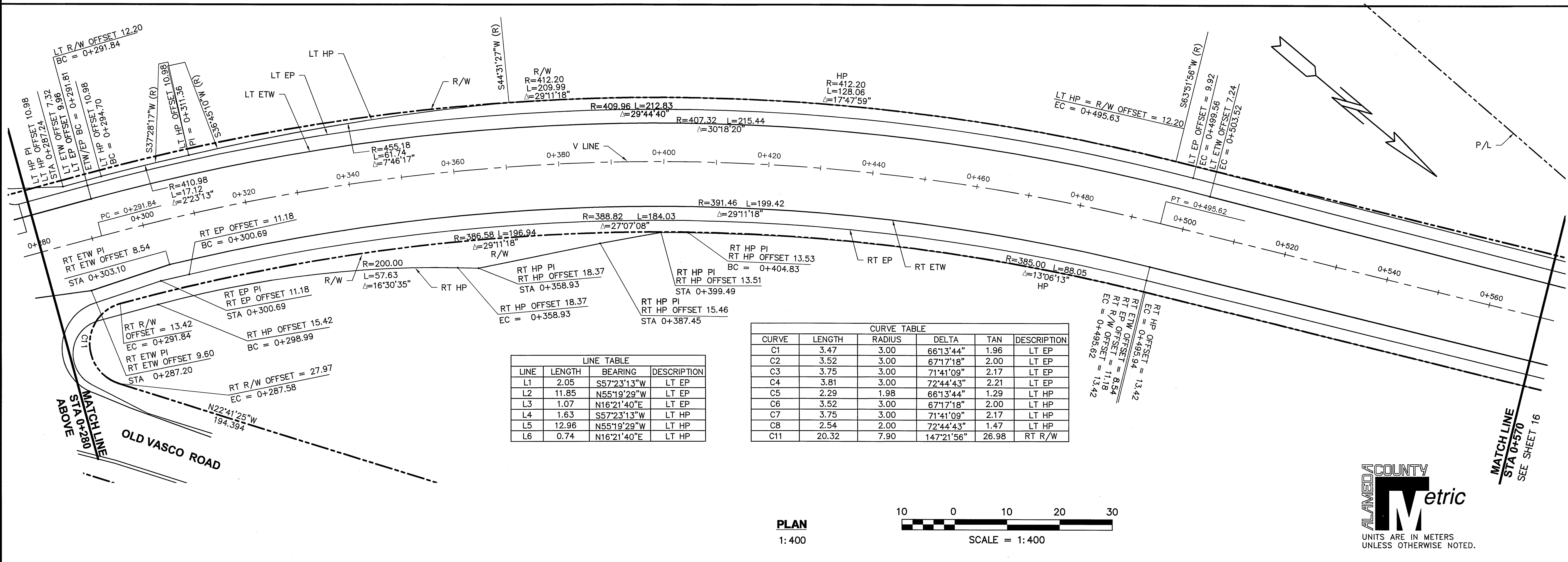
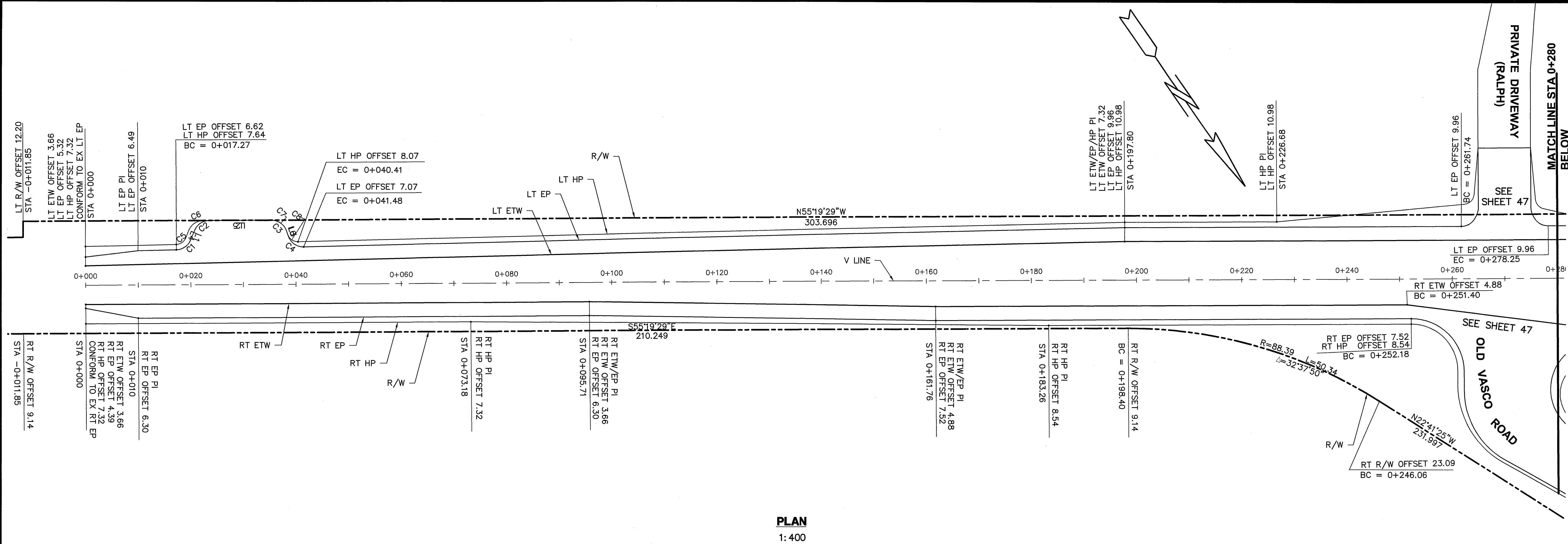
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ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TYPICAL SECTIONS AND MISCELLANEOUS DETAILS		DRAWN MARQUEL MARQUEL/JANE RIVERA		APPROVAL RECOMMENDED JAMES CHAN	
DESIGNED BAND H. MARQUEL/MARQUEL		APPROVAL JAMES CHAN		REGISTERED PROFESSIONAL ENGINEER STATE OF CALIF. No. 45570 Exp. 12/31/2008	
CHECKED MARQUEL MARQUEL		DATE JAN 2008		DESCRIPTION	
SCALE 1"=60'		NTS		BY	
WORK ORDER NO. R23265		SPECIFICATION NO. 1903		DATE	
SHEET NO. 14 OF 145		FILE NO. U-357-6		APPROVED	

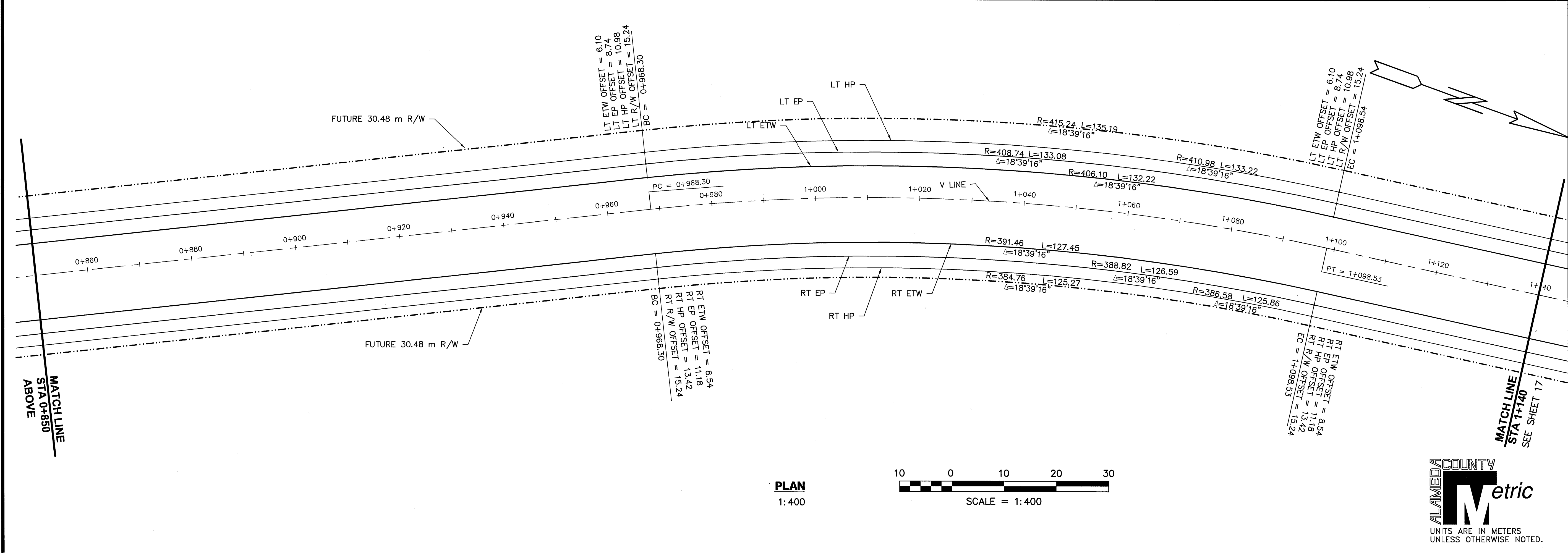
	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY	
MAINTENANCE			TRAFFIC	
REAL ESTATE			ENVIRONMENTAL	



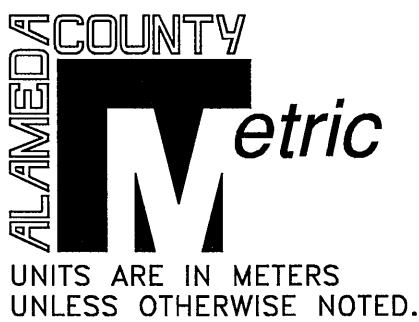
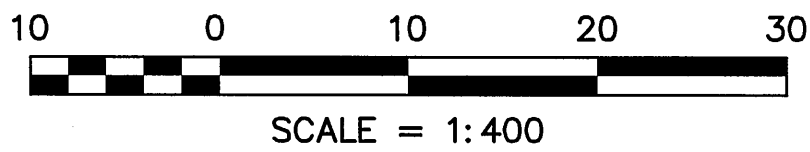
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
WORK ORDER NO. R23265		DRAWN JANE RINGDT JANE RINGDT JAMES CHU		APPROVAL RECOMMENDED JAMES CHU	
SPECIFICATION NO. 1903		DESIGNED BOB MURPHY BOB MURPHY JAMES CHU		APPROVAL RECOMMENDED JAMES CHU	
FILE NO. U-357-6		CHECKED JAMES CHU		SCALE 1:400	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 ROADWAY STAKING PLAN		DATE JAN 2008		DATE 1:400	
15 OF 145		NO.		DESCRIPTION	
BY		DATE		APPROVD	

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION		SURVEY	
MAINTENANCE		TRAFFIC	
REAL ESTATE		ENVIRONMENTAL	

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PLAN
1: 400

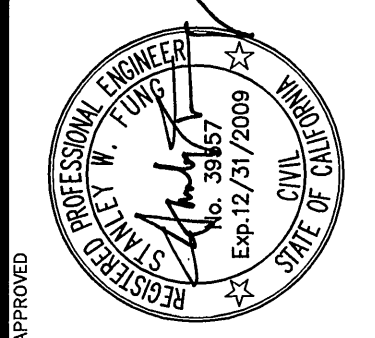


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
ROADWAY STAKING PLAN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	16 OF 145
FILE NO.	U-357-6

DESIGNED BY	CHECKED	DATE	SCALE	1: 400
DRAWN BY				
APPROVAL RECOMMENDED				
JAMES CHU				
APPROVAL RECOMMENDED				
ARTHUR T. CHAN				
EXP. 12/31/2009				
STATE OF CALIF.				

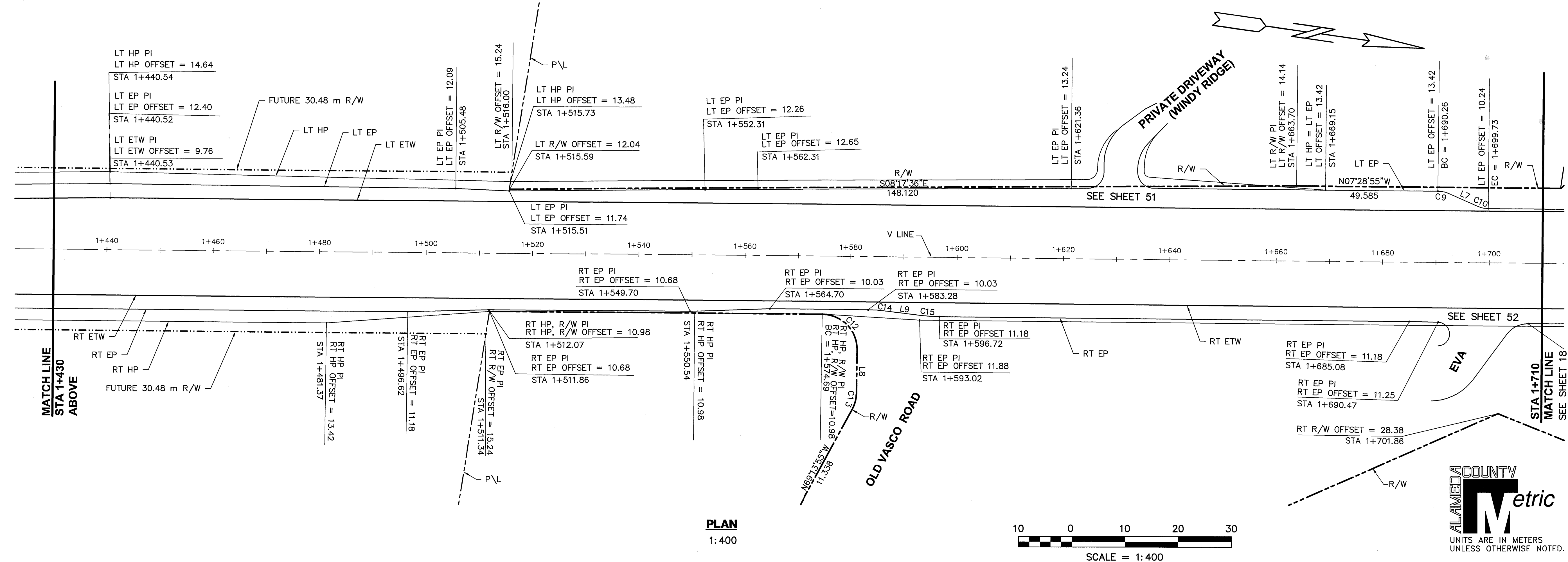
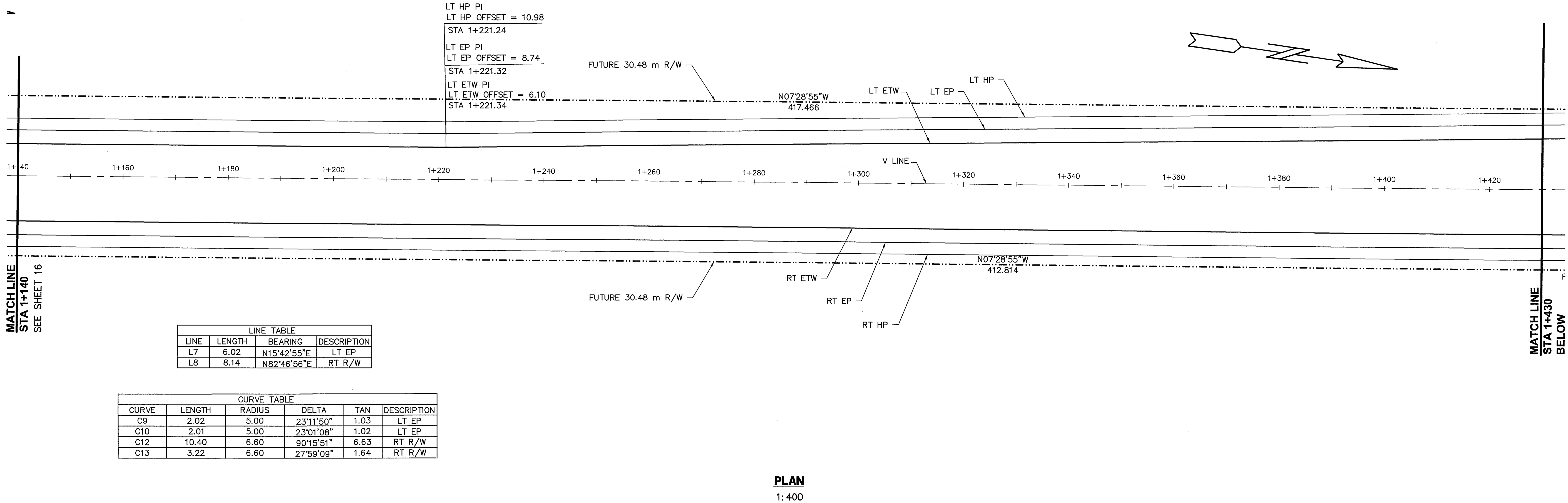


REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

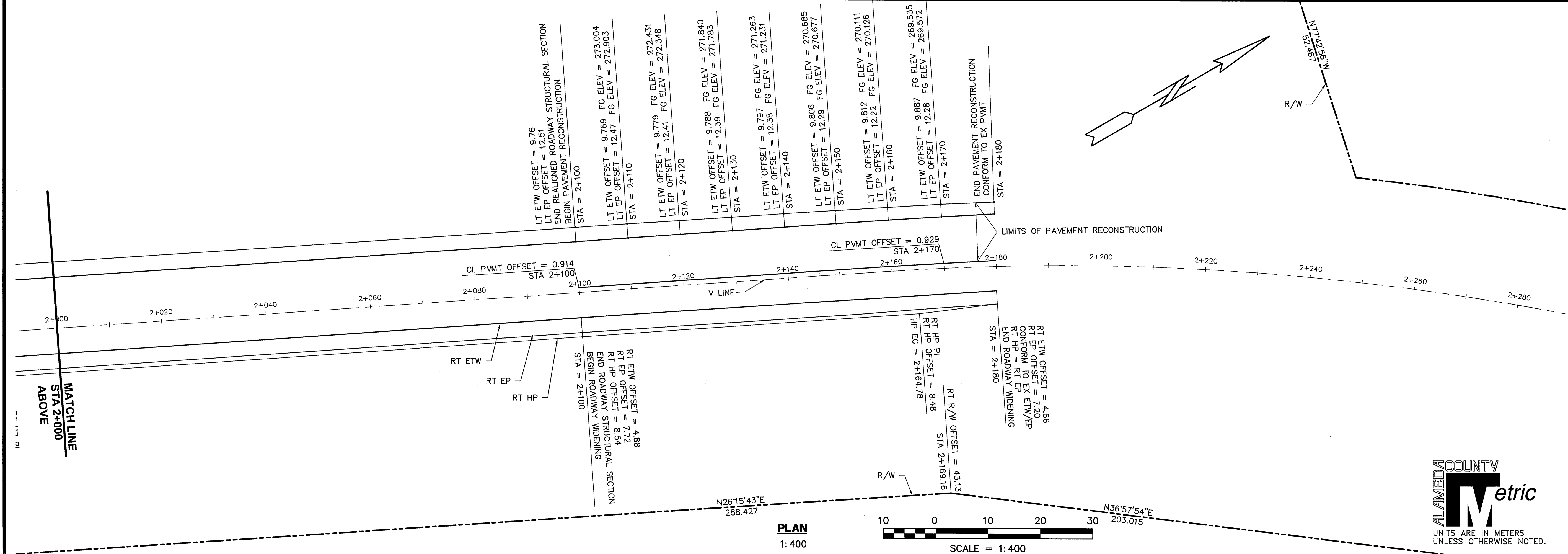
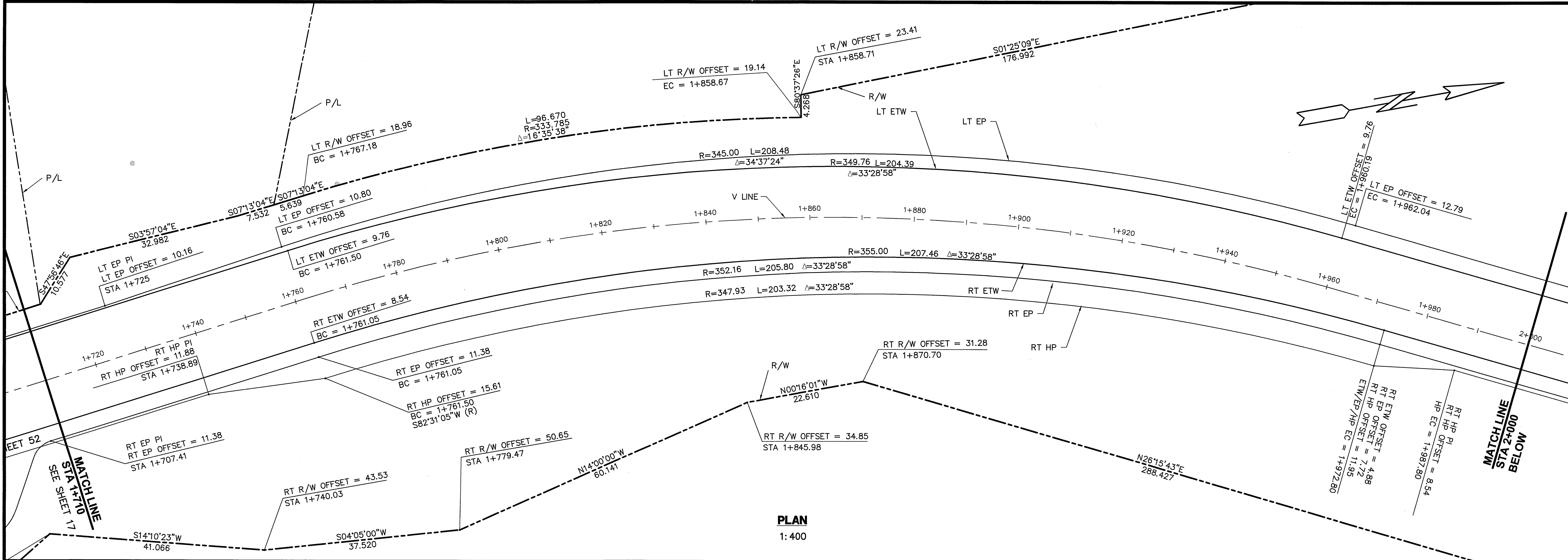
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REVISIONS		APPROVED		COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		ROADWAY STAKING PLAN	
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	CHECKED	DATE	SCALE	1:400
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3									
4									
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9									
10									
WORK ORDER NO. R23265		SPECIFICATION NO. 1903		SHEET NO. 17 OF 145		FILE NO. U-357-6			

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION		SURVEY	
MAINTENANCE		TRAFFIC	
REAL ESTATE		ENVIRONMENTAL	

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REVISIONS		APPROVED		DATE		BY		DESCRIPTION		APPROVED	
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVAL		DATE		SCALE	
DESIGNED	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		
CHECKED	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		
DRAWN	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		
PROJECT	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		
REVISION	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		
DATE	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		
SCALE	JAMES CHU	APPROVED	JAMES CHU	JAN 2008	1:400		

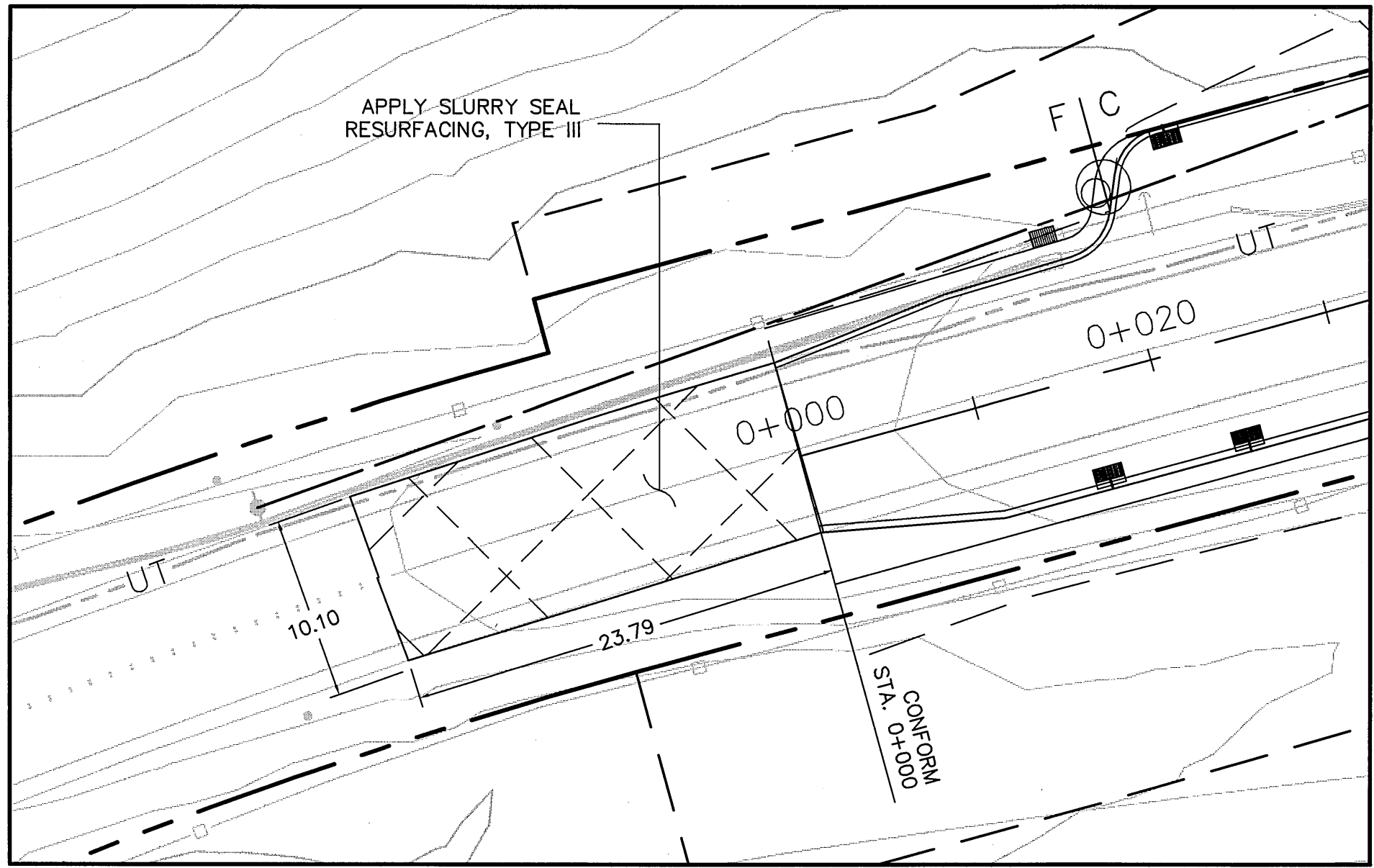
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
ROADWAY STAKING PLAN

WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 18 OF 145
FILE NO. U-357-6

ALAMEDA COUNTY Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

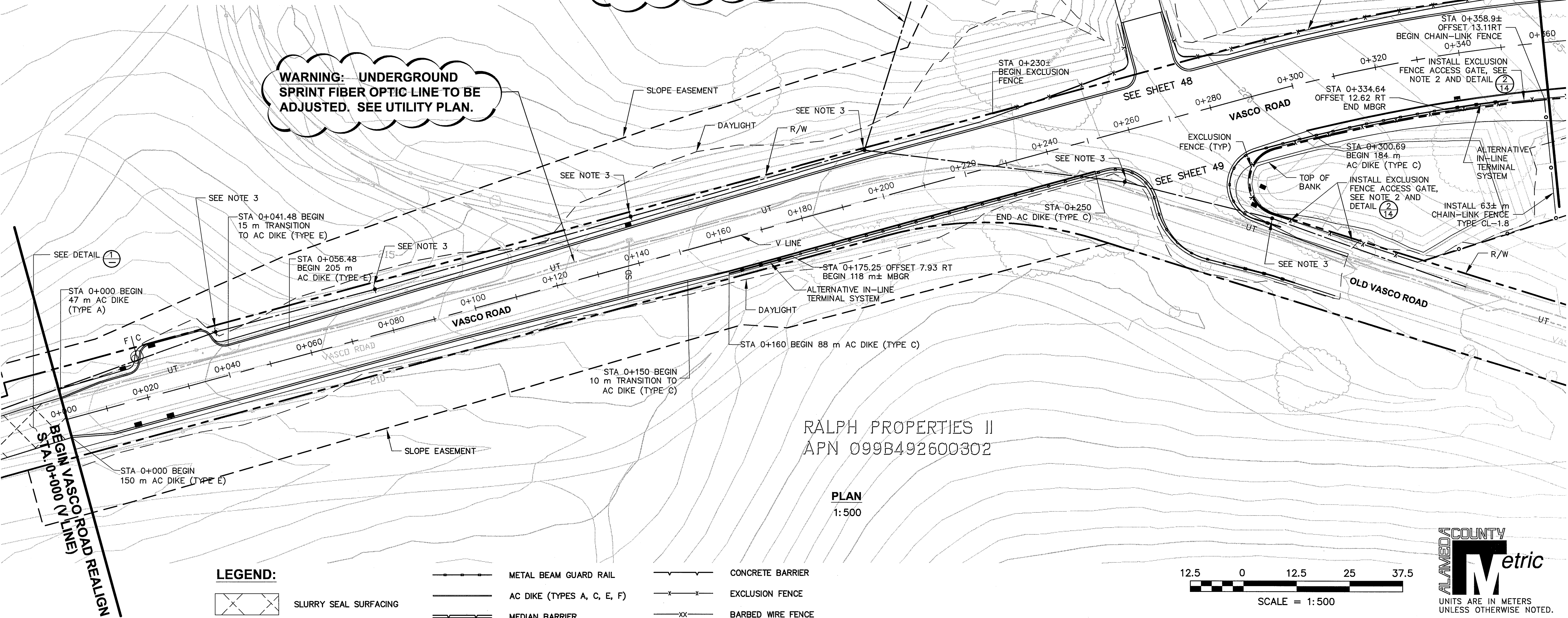
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DETAIL 1
SCALE 1:300

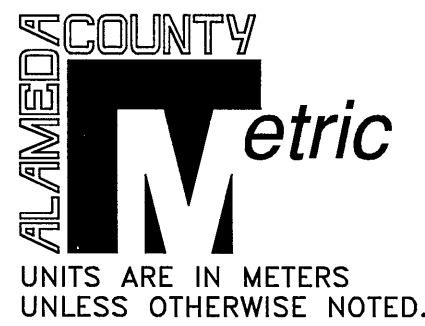
NOTES:

- METAL BEAM GUARDRAIL OFFSETS ARE MEASURED TO THE CENTER OF THE GUARDRAIL POST.
- LOCATION SHOWN IS APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- NEW UTILITY POLE, SEE UTILITY PLAN.
- SEE UTILITY PLAN FOR POT HOLE INFORMATION.



REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> <th>APPVD</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DESCRIPTION	BY	DATE	APPVD																					APPROVED REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. 3657 Exp. 12/31/2009
NO.	DESCRIPTION	BY	DATE	APPVD																							
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 ROADWAY PLAN		APPROVAL RECOMMENDED JAMES CHU JAN 2008 1:500 DESIGNED JANE BRADY JAN 2008 1:500 CHECKED BOND NGUYEN JAN 2008 1:500 DRAWN JANE BRADY JAN 2008 1:500																									
WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 19 OF 145 FILE NO. U-357-6		ALAMEDA COUNTY metric UNITS ARE IN METERS UNLESS OTHERWISE NOTED.																									

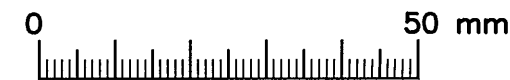
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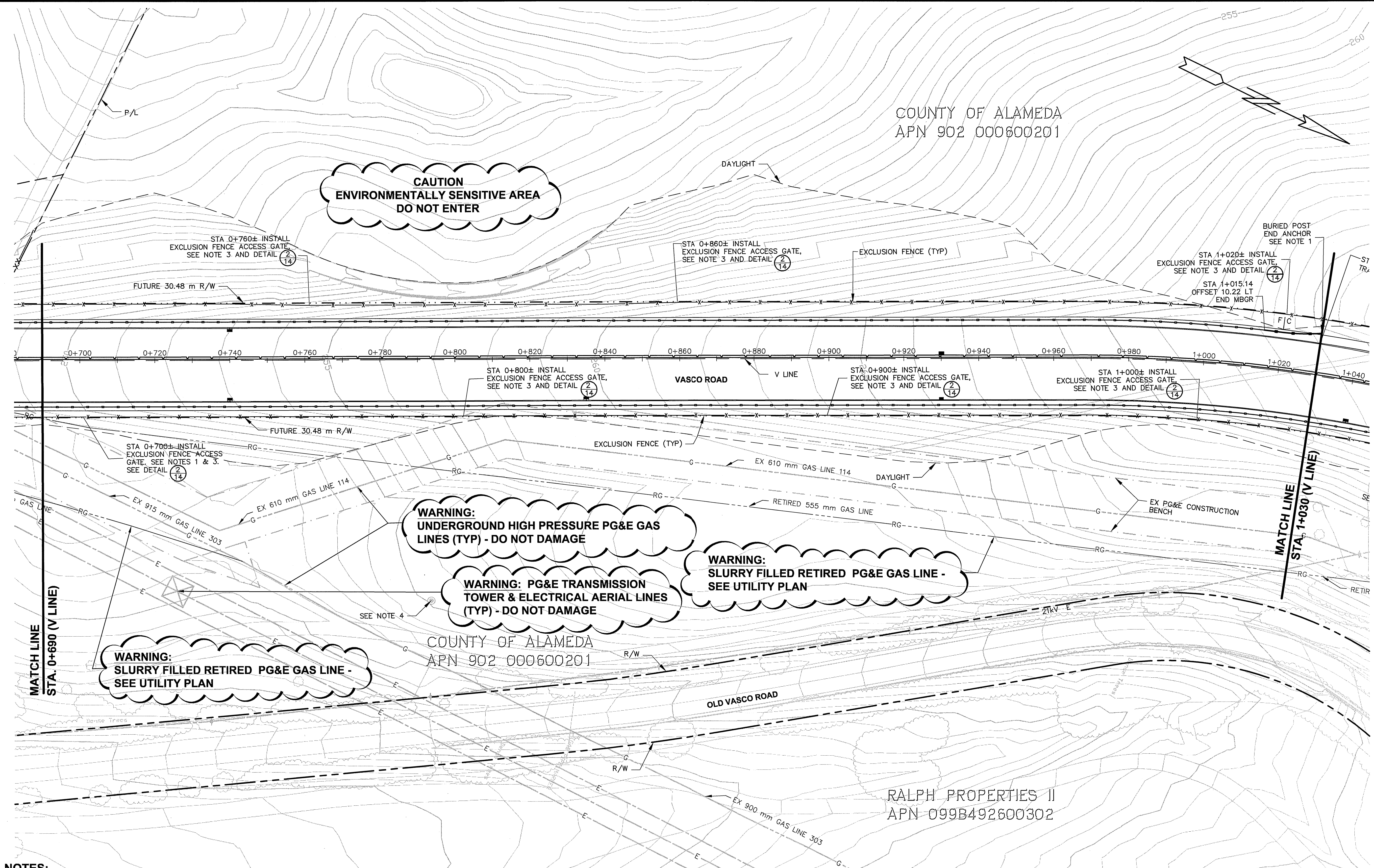
PLAN
1:500

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

[illegible]

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REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	TRAFFIC	ENVIRONMENTAL	
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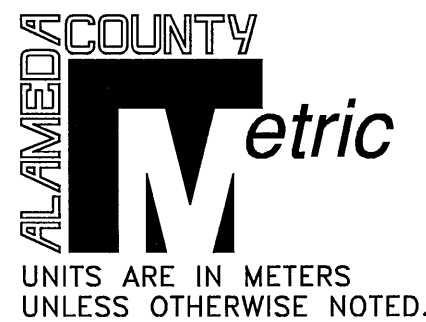
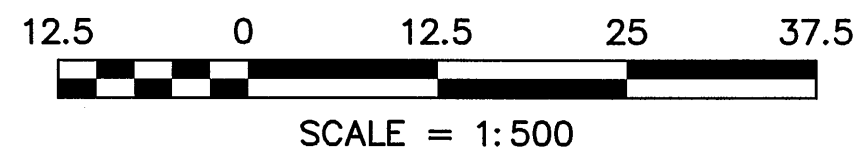
NOTES:

1. LOCATION SHOWN IS APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. METAL BEAM GUARDRAIL OFFSETS ARE MEASURED TO THE CENTER OF THE GUARDRAIL POST.
3. ACCESS GATE LOCATIONS ARE APPROXIMATE ONLY AND WILL BE DETERMINED IN THE FIELD.
4. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE EXISTING MONUMENT P1. SEE SHEET 5.
5. SEE UTILITY PLAN FOR POTHOLE INFORMATION.

LEGEND:

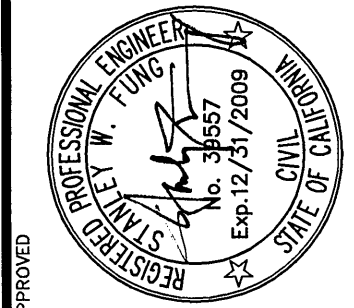
	METAL BEAM GUARD RAIL		CONCRETE BARRIER
	AC DIKE (TYPES A, C, E, F)		EXCLUSION FENCE
	MEDIAN BARRIER		BARBED WIRE FENCE
			TYPE ADIEM CRASH CUSHION

PLAN
1:500



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

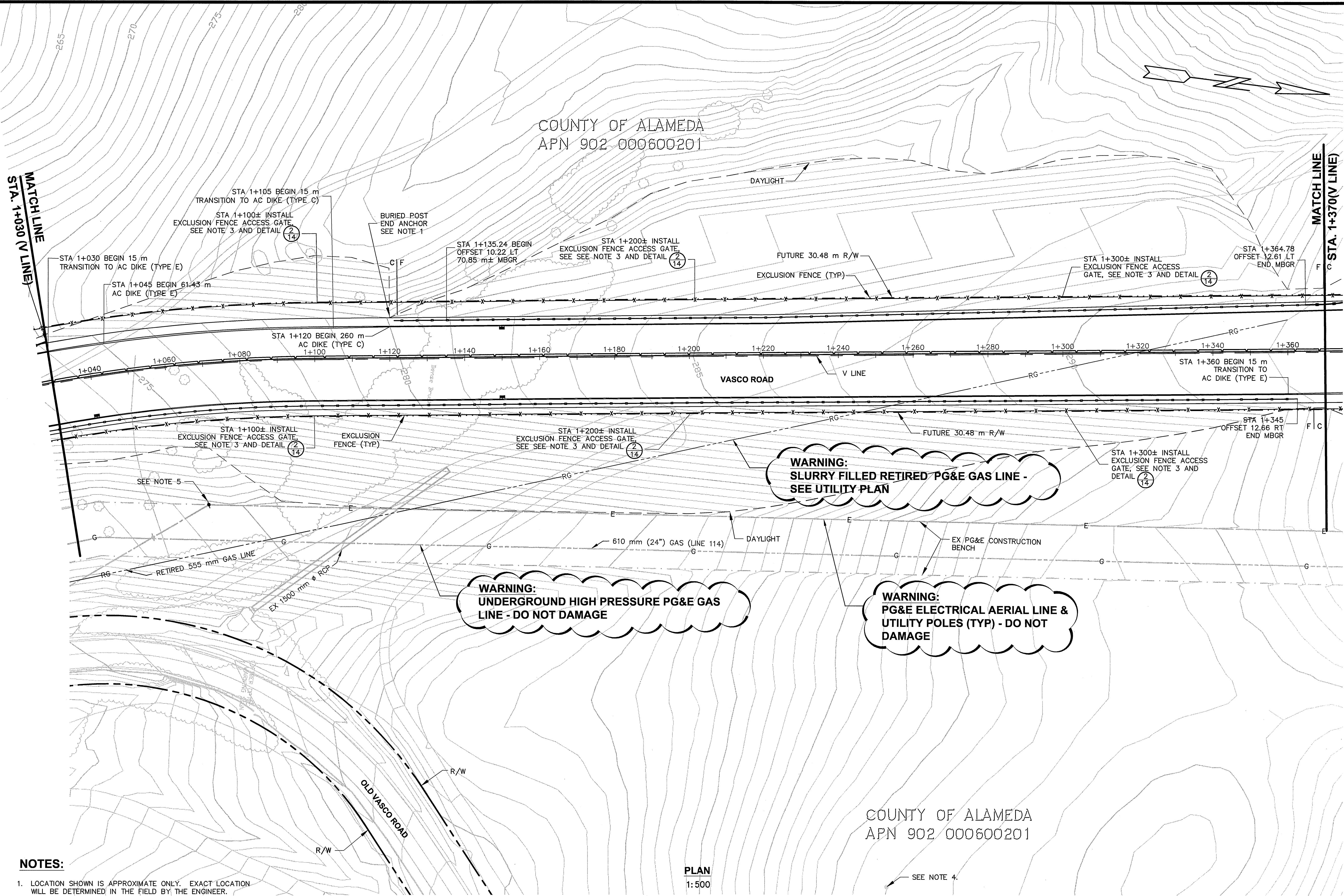
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APPROVAL RECOMMENDED JAMES CHU JAN 2008	DATE JAN 2008
APPROVAL RECOMMENDED JAMES CHU JAN 2008	DATE JAN 2008

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
ROADWAY PLAN

WORK ORDER NO. R23265	SPECIFICATION NO. 1903
SHEET NO. 21 OF 145	FILE NO. U-357-6

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION		TRAFFIC	
MAINTENANCE		ENVIRONMENTAL	
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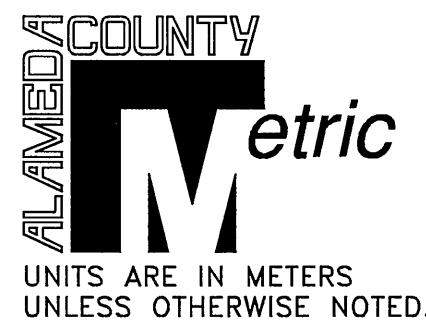
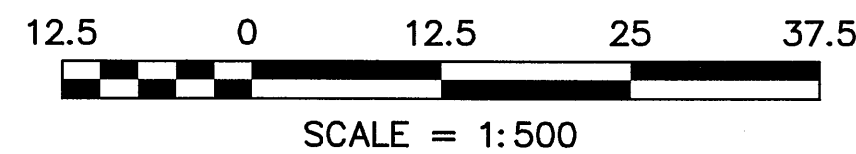
NOTES:

1. LOCATION SHOWN IS APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. METAL BEAM GUARDRAIL OFFSETS ARE MEASURED TO THE CENTER OF THE GUARDRAIL POST.
3. ACCESS GATE LOCATIONS ARE APPROXIMATE ONLY AND WILL BE DETERMINED IN THE FIELD.
4. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE EXISTING SURVEY SET REBAR P.3. SEE SHEET 5.
5. NEW UTILITY POLE, SEE UTILITY PLAN.

LEGEND:

	METAL BEAM GUARD RAIL		CONCRETE BARRIER
	AC DIKE (TYPES A, C, E, F)		EXCLUSION FENCE
	MEDIAN BARRIER		BARBED WIRE FENCE

PLAN
1: 500



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

ROADWAY PLAN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	22 OF 145
FILE NO.	U-357-6

APPROVAL: RECOMMENDED
JAMES CHU
APPROVAL: DESIGNED
JAMES CHU
APPROVAL: CHECKED
JAMES CHU

JAN 2008

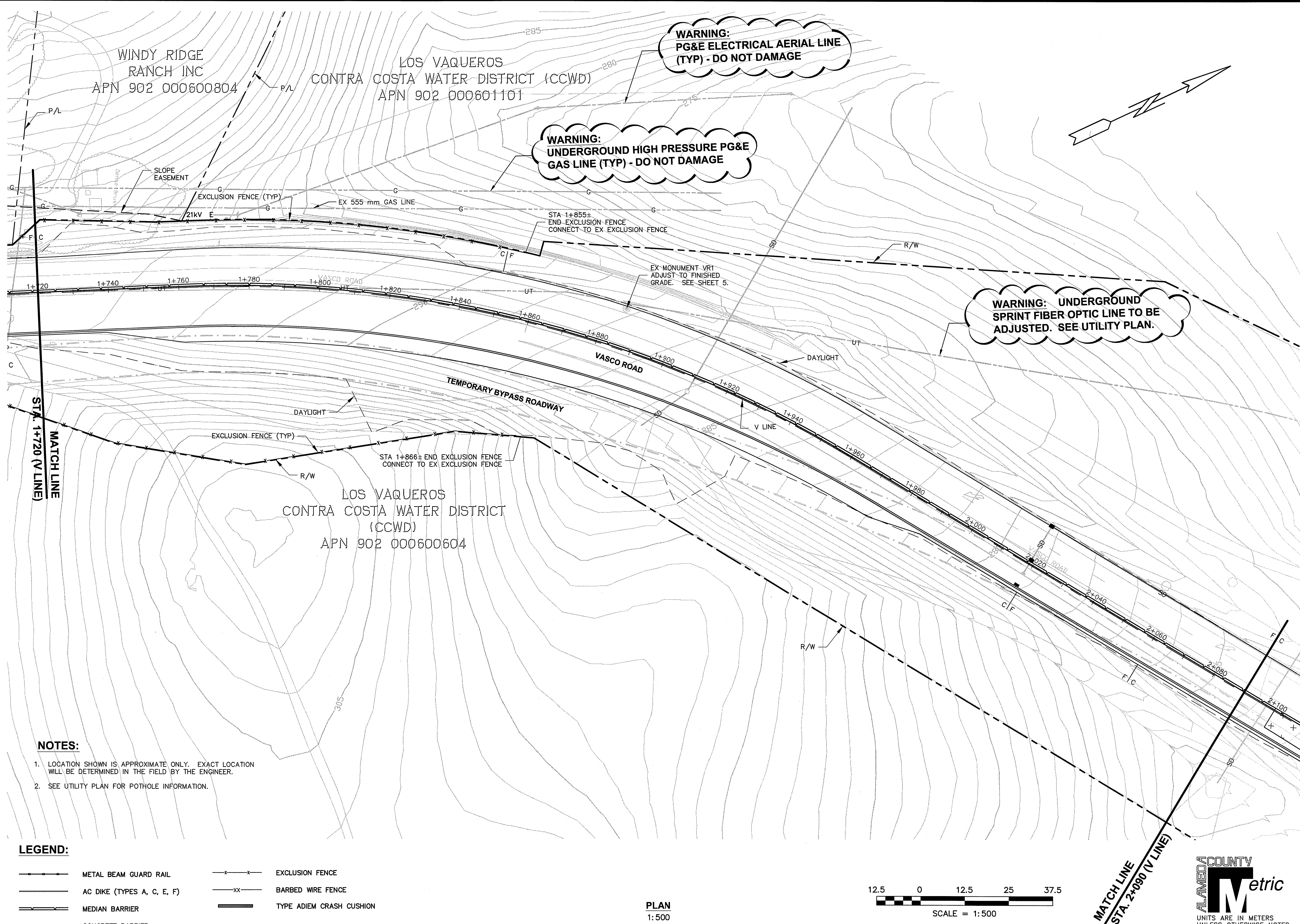
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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	CONSTRUCTION	MAINTENANCE	REAL ESTATE
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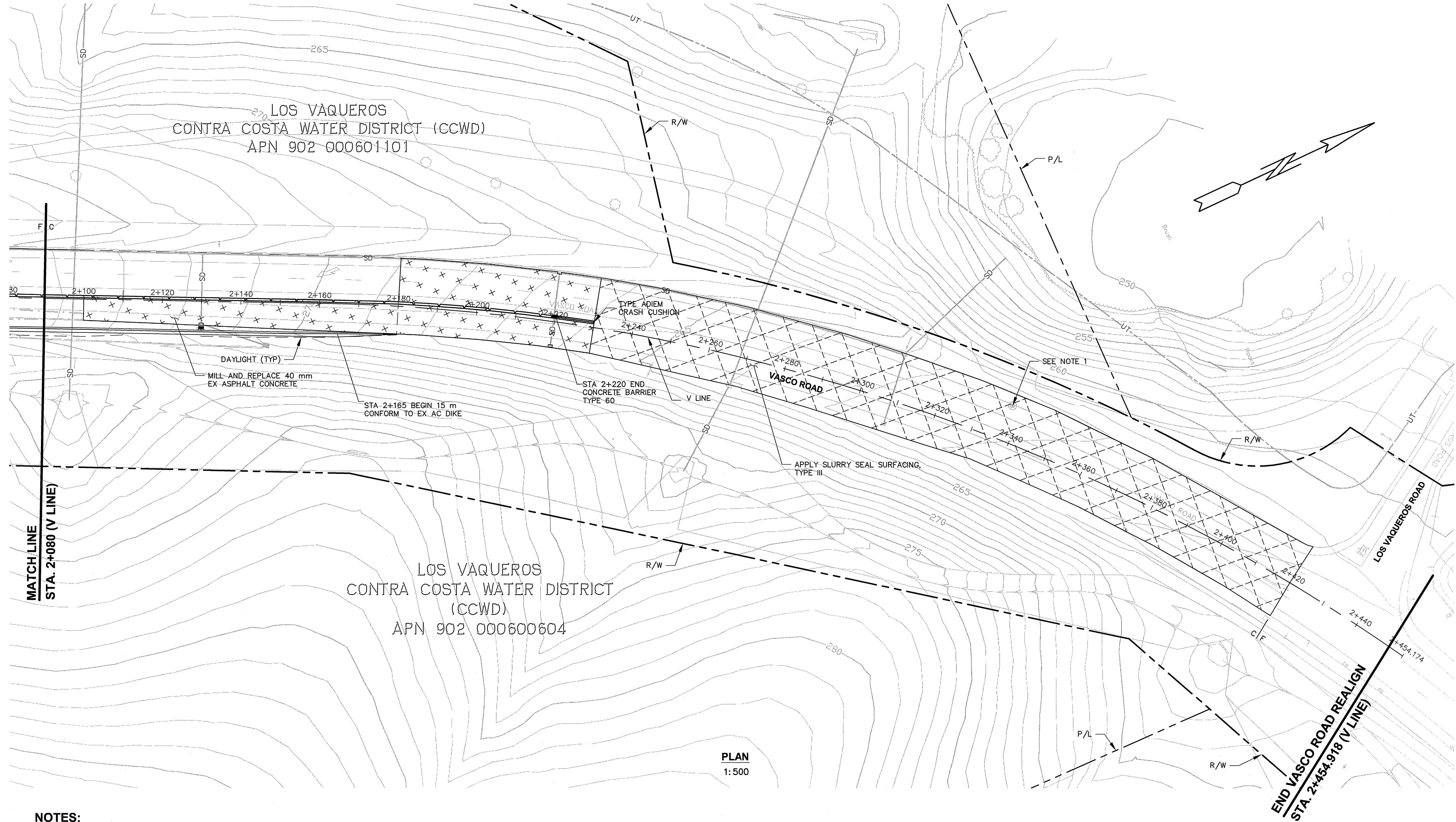
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY									
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 ROADWAY PLAN									
WORK ORDER NO. R23265									
SPECIFICATION NO. 1903									
SHEET NO. 24 OF 145									
FILE NO. U-357-6									
APPROVED									
DRAWN		APPROVAL RECOMMENDED		APPROVAL RECOMMENDED		APPROVAL RECOMMENDED		APPROVAL RECOMMENDED	
JANE RINGSTAD		JAMES CHAN		JAMES CHAN		JAMES CHAN		JAMES CHAN	
DESIGNED		APPROVAL RECOMMENDED		APPROVAL RECOMMENDED		APPROVAL RECOMMENDED		APPROVAL RECOMMENDED	
J. J. Munoz		J. J. Munoz		J. J. Munoz		J. J. Munoz		J. J. Munoz	
CHECKED		DATE		SCALE		DATE		SCALE	
JAMES CHU		JAN 2008		1:500		JAN 2008		1:500	
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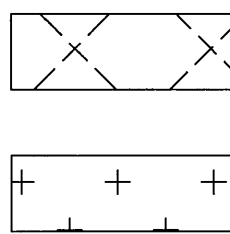
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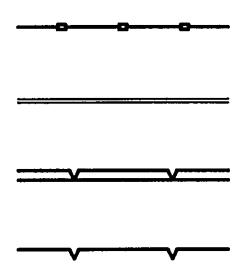
1. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE EXISTING SURVEY SET REBAR P6. SEE SHEET 5.
2. SEE UTILITY PLAN FOR POTHOLE INFORMATION.

LEGEND:



SLURRY SEAL SURFACING

MILL AND OVERLAY

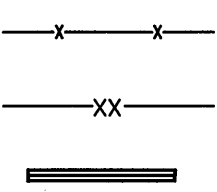


METAL BEAM GUARD RAIL

AC DIKE (TYPES A, C, E, F)

MEDIAN BARRIER

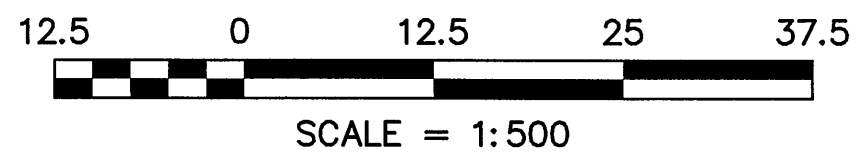
CONCRETE BARRIER



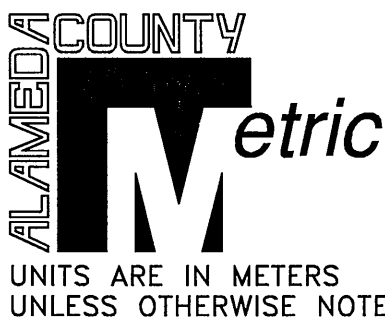
EXCLUSION FENCE

BARBED WIRE FENCE

TYPE ADIEM CRASH CUSHION



SCALE = 1:500



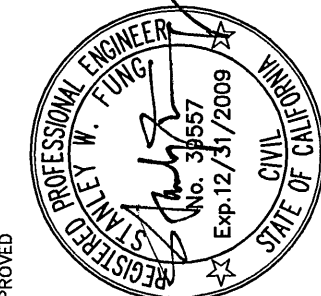
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

ROADWAY PLAN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	25 OF 145
FILE NO.	U-357-6

DRAWN	DESIGNED	CHECKED	DATE	SCALE
JANE BINGOT	JAMES CHU	JAMES CHU	JAN 2008	1:500

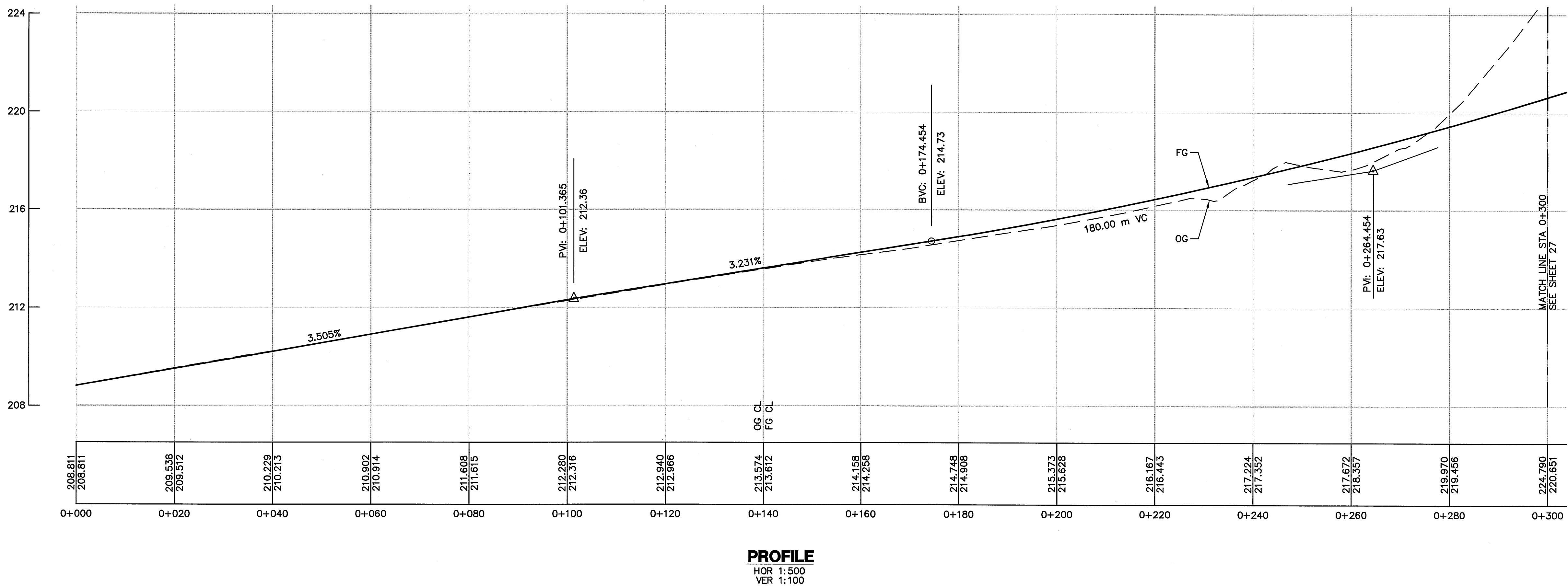
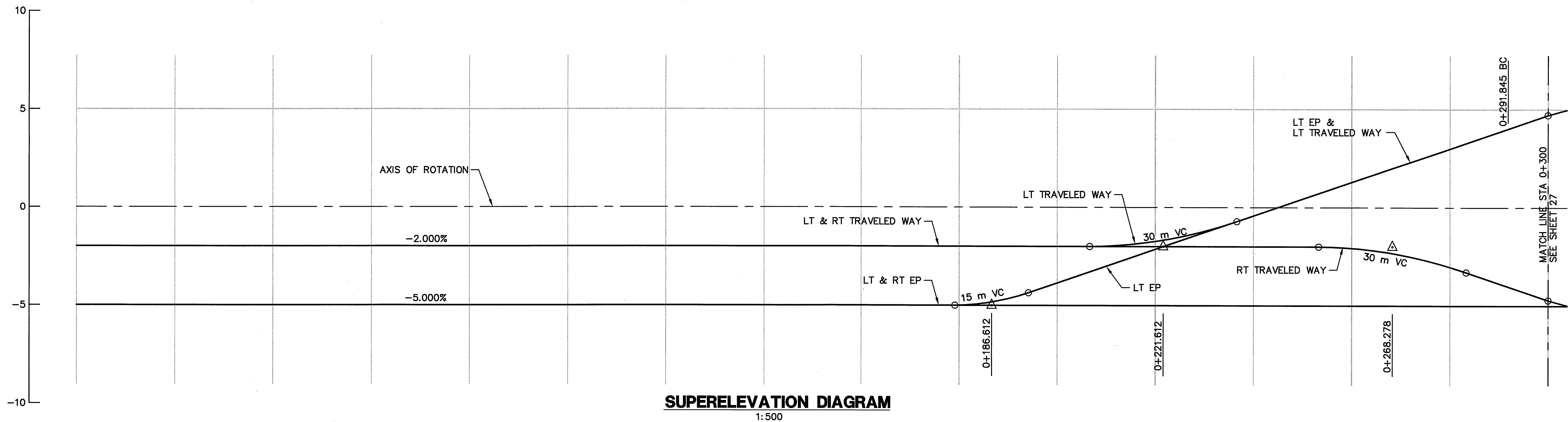


REVISIONS

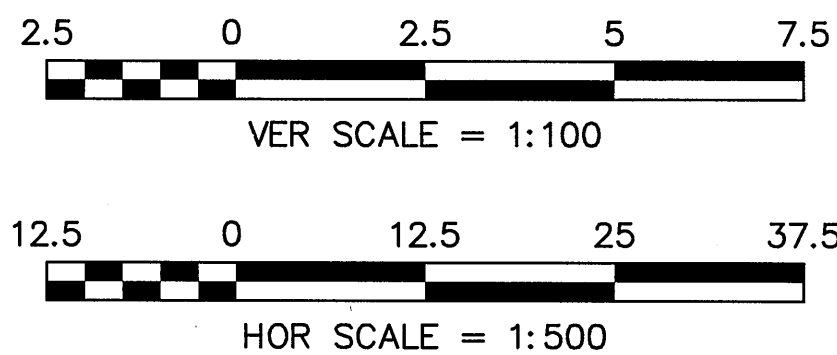
NO.	DESCRIPTION	BY	DATE	APP'D

CONSTRUCTION	REVIEWED BY:	DATE:	SURVEY	REVIEWED BY:	DATE:
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

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V LINE

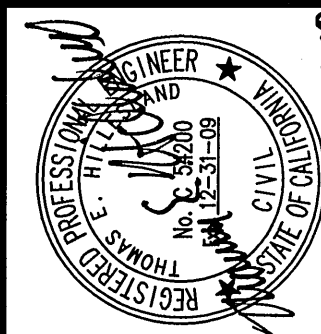


COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
PROFILE & SUPERELEVATION
V LINE

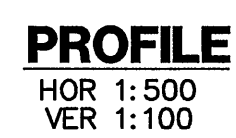
DATE	JAN 2008	SCALE	AS SHOWN
WORK ORDER NO.	R23265		
SPECIFICATION NO.	1903		
SHEET NO.	26	OF	145
FILE NO.	U-357-6		

1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238	DESIGNED: A. BORDONOVA	CHECKED: T. HILLESAND
STANLEY W. FUNG	APPROVAL RECOMMENDED: JAMES S. JONES	APPROVED: B. ZARIN



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



ALAMEDA COUNTY
M*etric*
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVIEWED:  BOND NO. <u> </u> REVIEWED: <u>James Chu</u> APPROVED: <u> </u> APPROVAL RECOMMENDED: <u> </u> STANLEY W. FENG
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 PROFILE & SUPERELEVATION V LINE		
DATE	SCALE	
JAN 2008	AS SHOWN	
WORK ORDER NO.		
R23265		
SPECIFICATION NO.		
1903		
SHEET NO.		
27 OF 145		
FILE NO.		
U-357-6		

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238



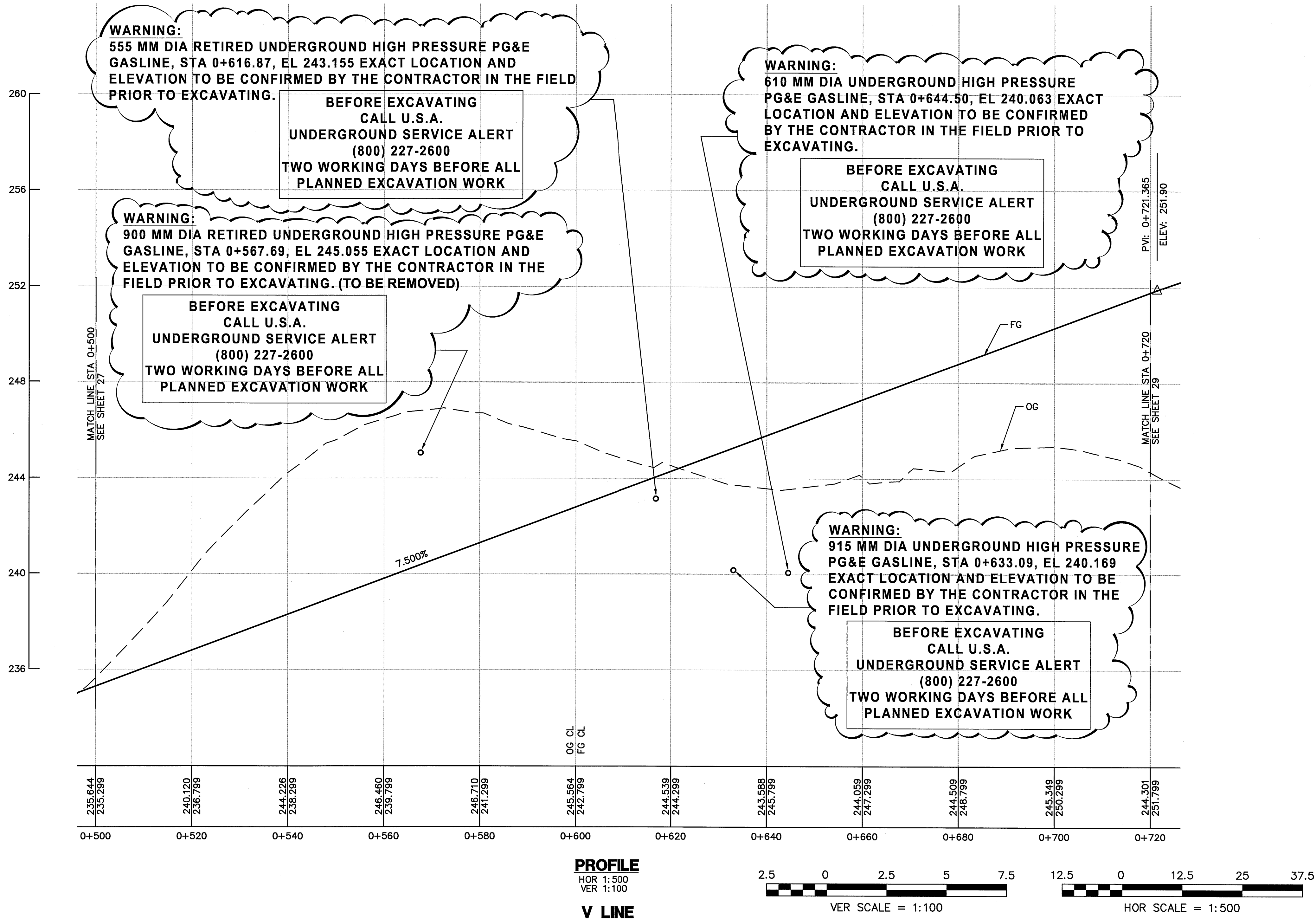
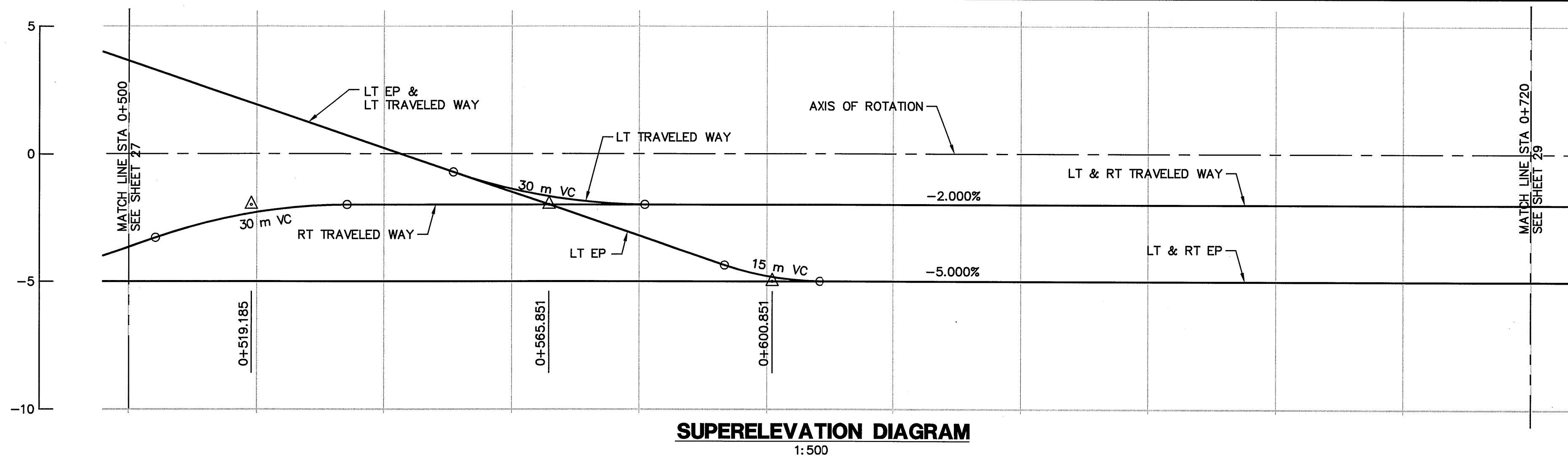
DRAWN:
A. BOROMKOVA
DESIGNED:
S. HO

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6-26-08

	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY	
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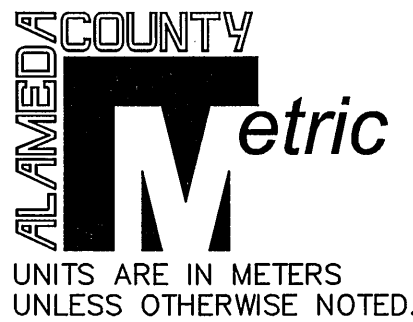
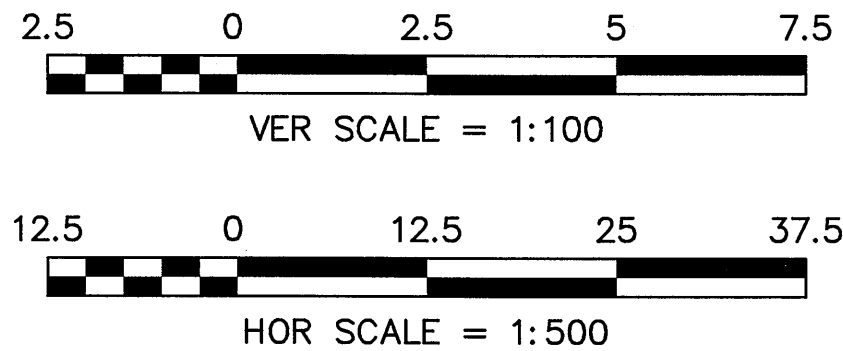
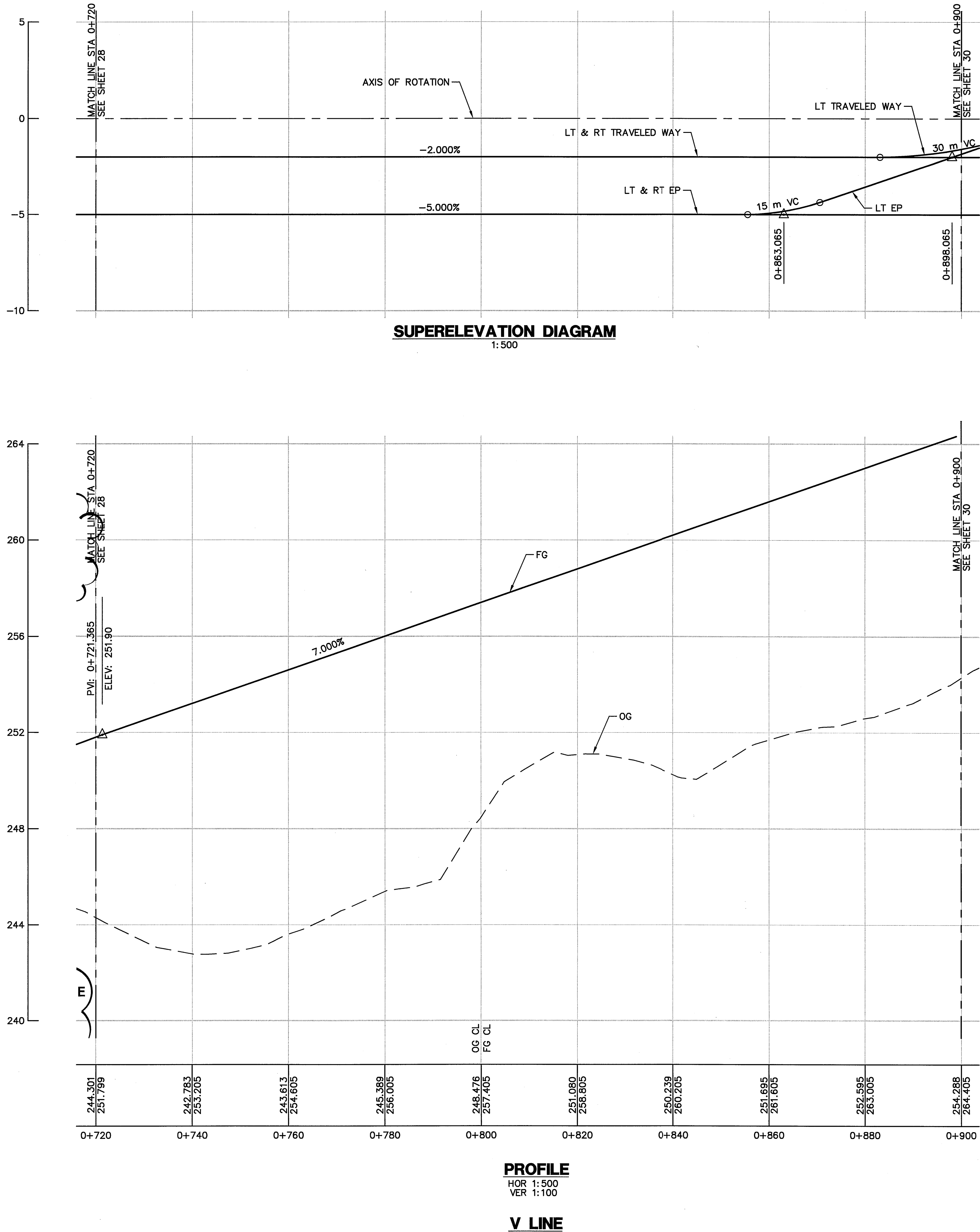


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 PROFILE & SUPERELEVATION V LINE		REVIEWED:  BOND NO.  REVIEWED:  JAMES CHU	DATE: JAN 2008 SCALE: AS SHOWN WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 28 OF 145 FILE NO. U-357-6
REVIEWED:  BOND NO.  REVIEWED:  ARTHUR G. CARREIA		APPROVAL RECOMMENDED: DESIGNED: STANLEY W. FUNG	
 Moffatt & Nichol		1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238	
DRAWN: A. BOROMKOVA DESIGNED: S. HO		CHECKED: T. HILLESLAND APPROVED: B. ZHENI	
			
REVISIONS			
NO.	DESCRIPTION	BY	DATE
6-16-08			

	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY	
MAINTENANCE			TRAFFIC	
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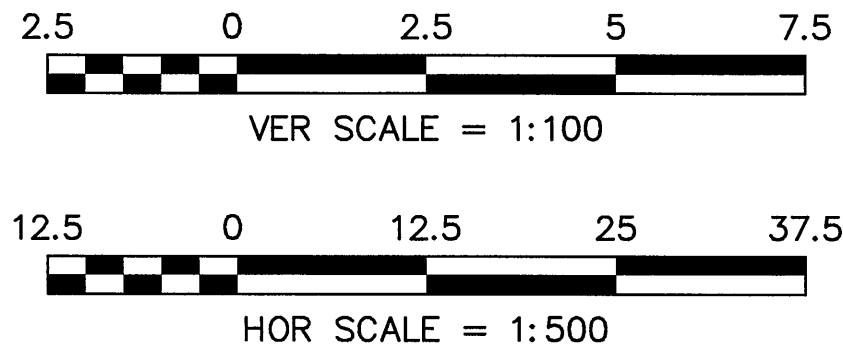
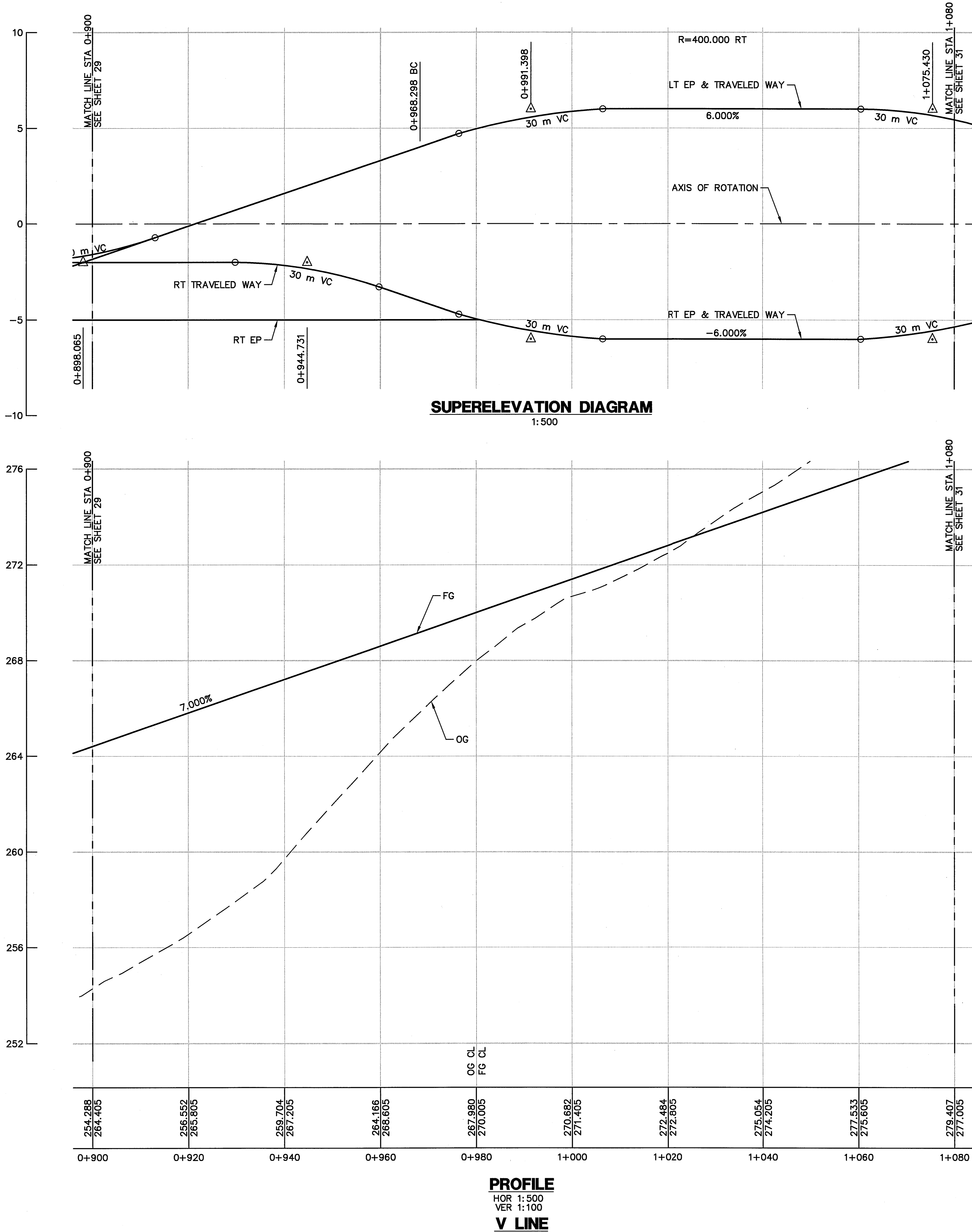
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 PROFILE & SUPERELEVATION V LINE	
DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	SPECIFICATION NO. 1903
SHEET NO. 29 OF 145	FILE NO. U-357-6
REVIEWED: JAMES CHOI	DESIGNED: STANLEY W. FUNG
APPROVAL RECOMMENDED: ARTUR C. CARPERA	APPROVED: T. HILESAND
DRAWN: A. BRANKOVA	CHECKED: B. ZERN

1300 CLAY STREET, SUITE 560 OAKLAND, CALIFORNIA 94612 (510) 645-1268	
Moffatt & Nichol	
REGISTERED PROFESSIONAL ENGINEER CIVIL No. 5000 Exp. 12-31-09	

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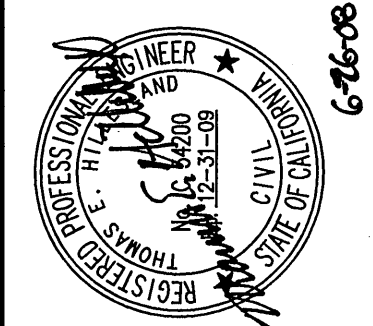
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COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 PROFILE & SUPERELEVATION V LINE	
DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 30 OF 145	
FILE NO. U-357-6	

1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 845-1238	
DRAWN A. BOROMKOWA	CHECKED T. HULESAND
DESIGNED S. HO	APPROVED B. ZAHN

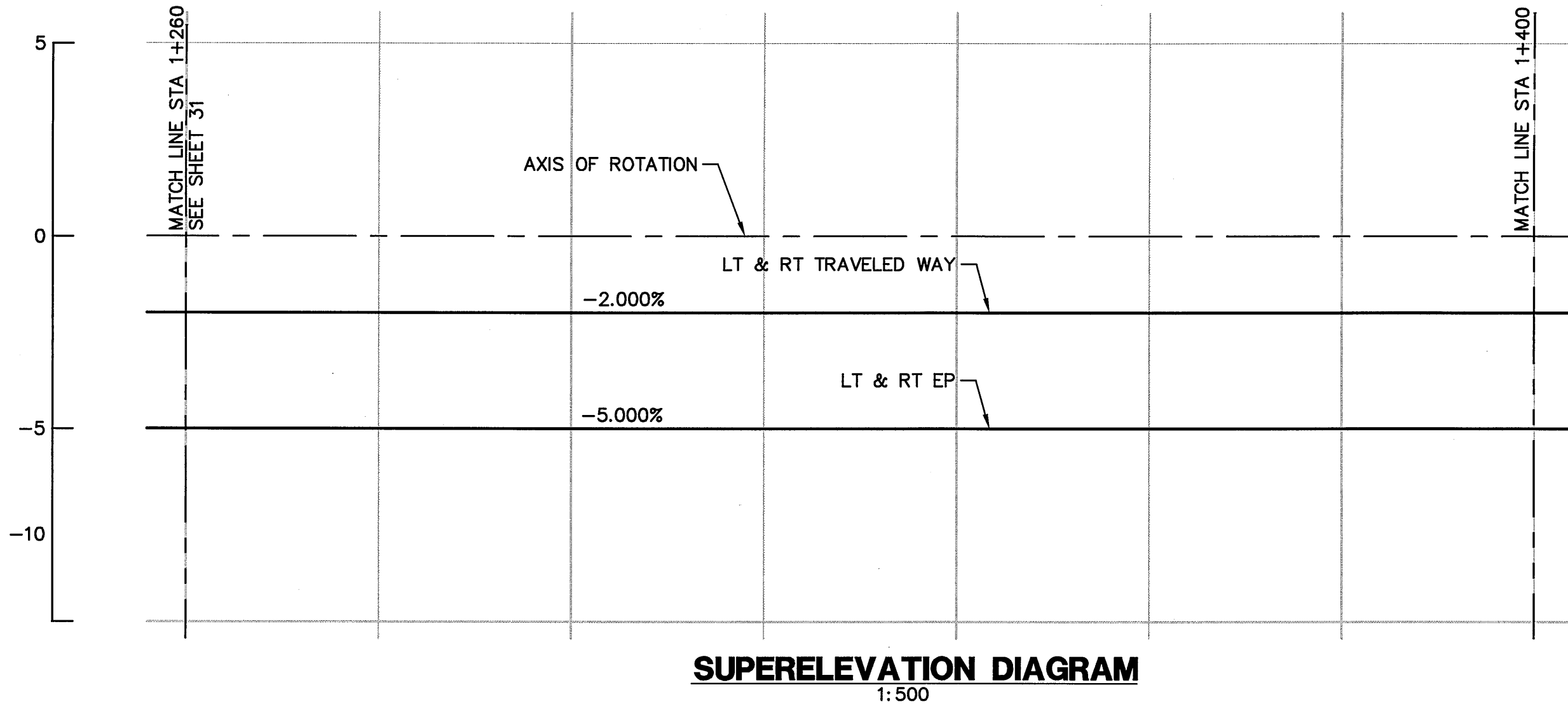


REVISIONS

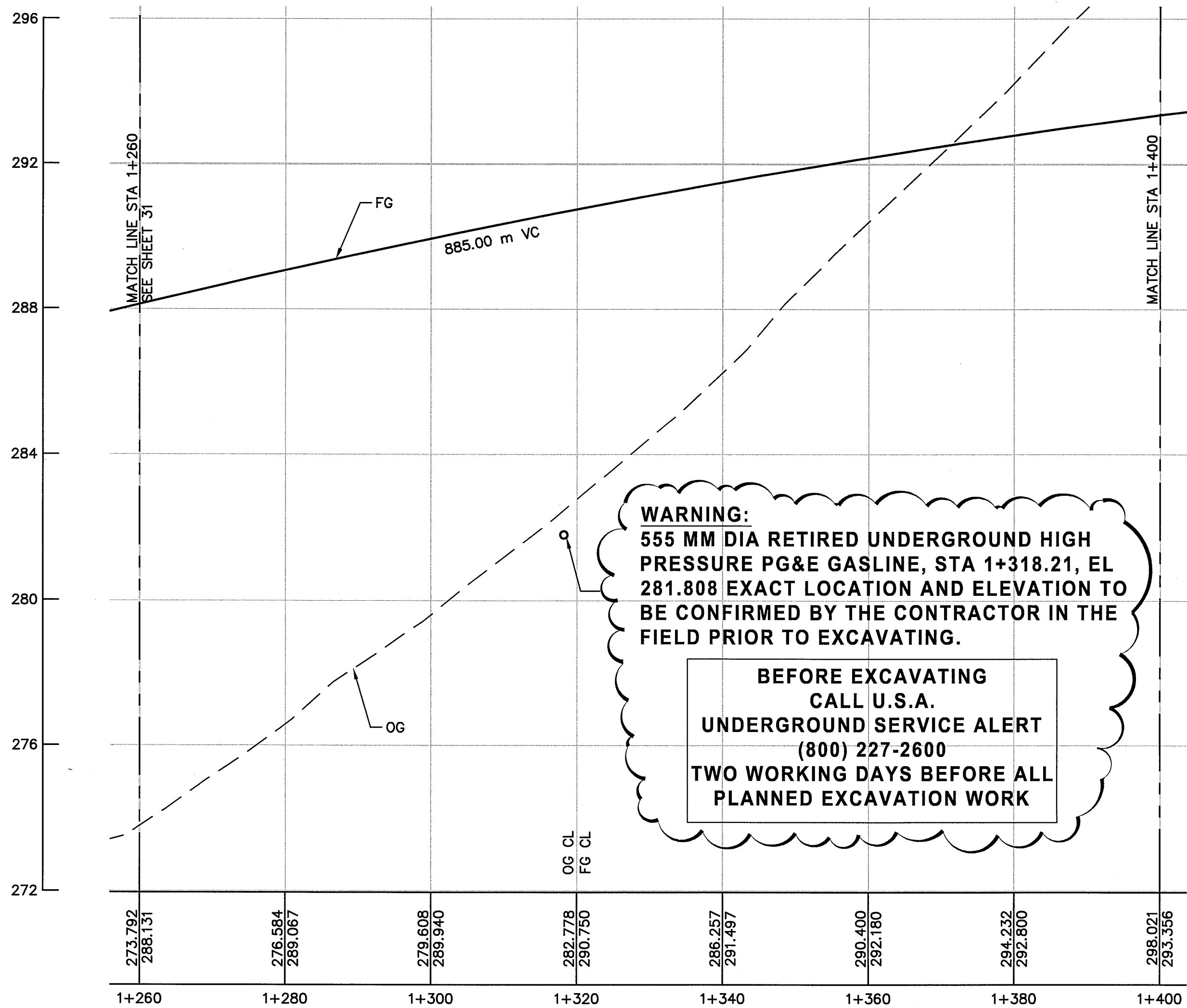
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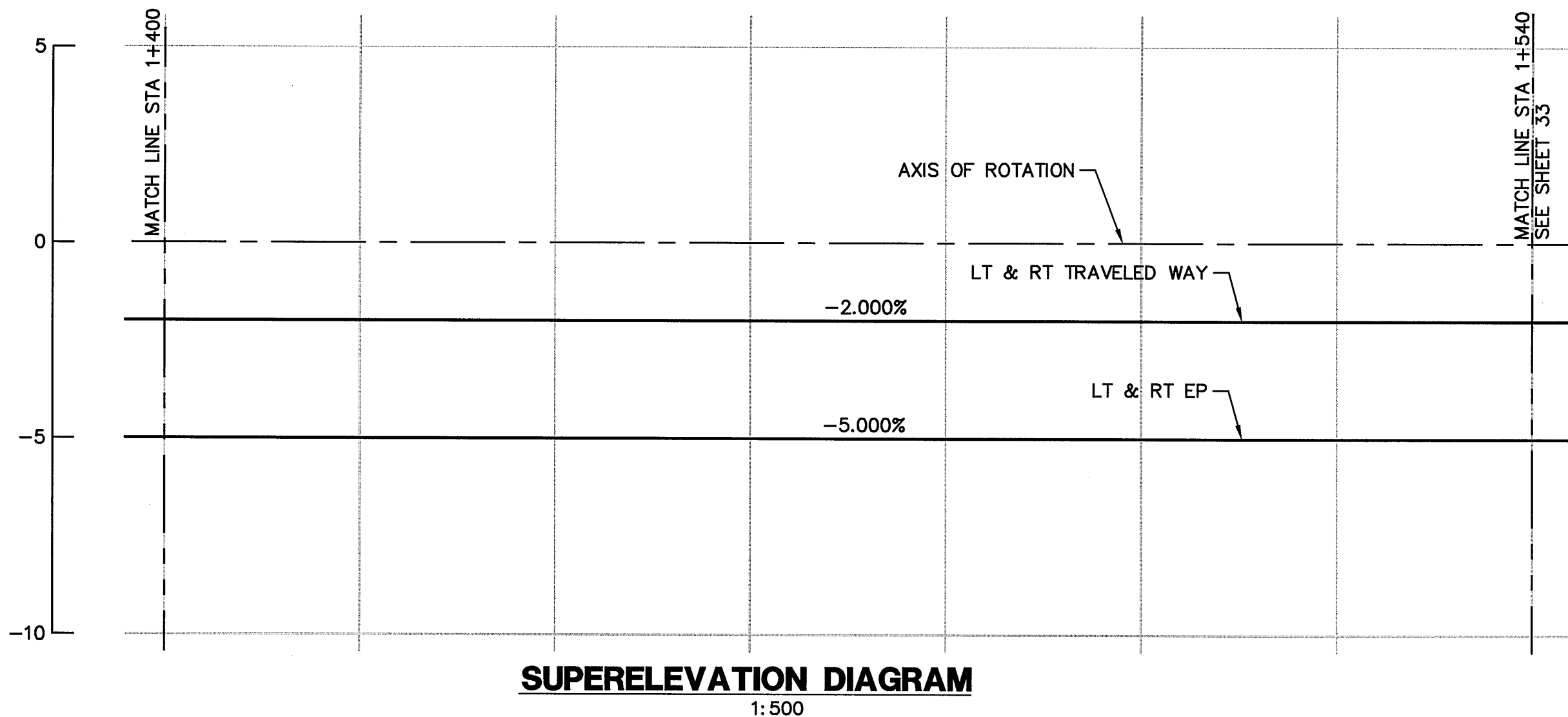
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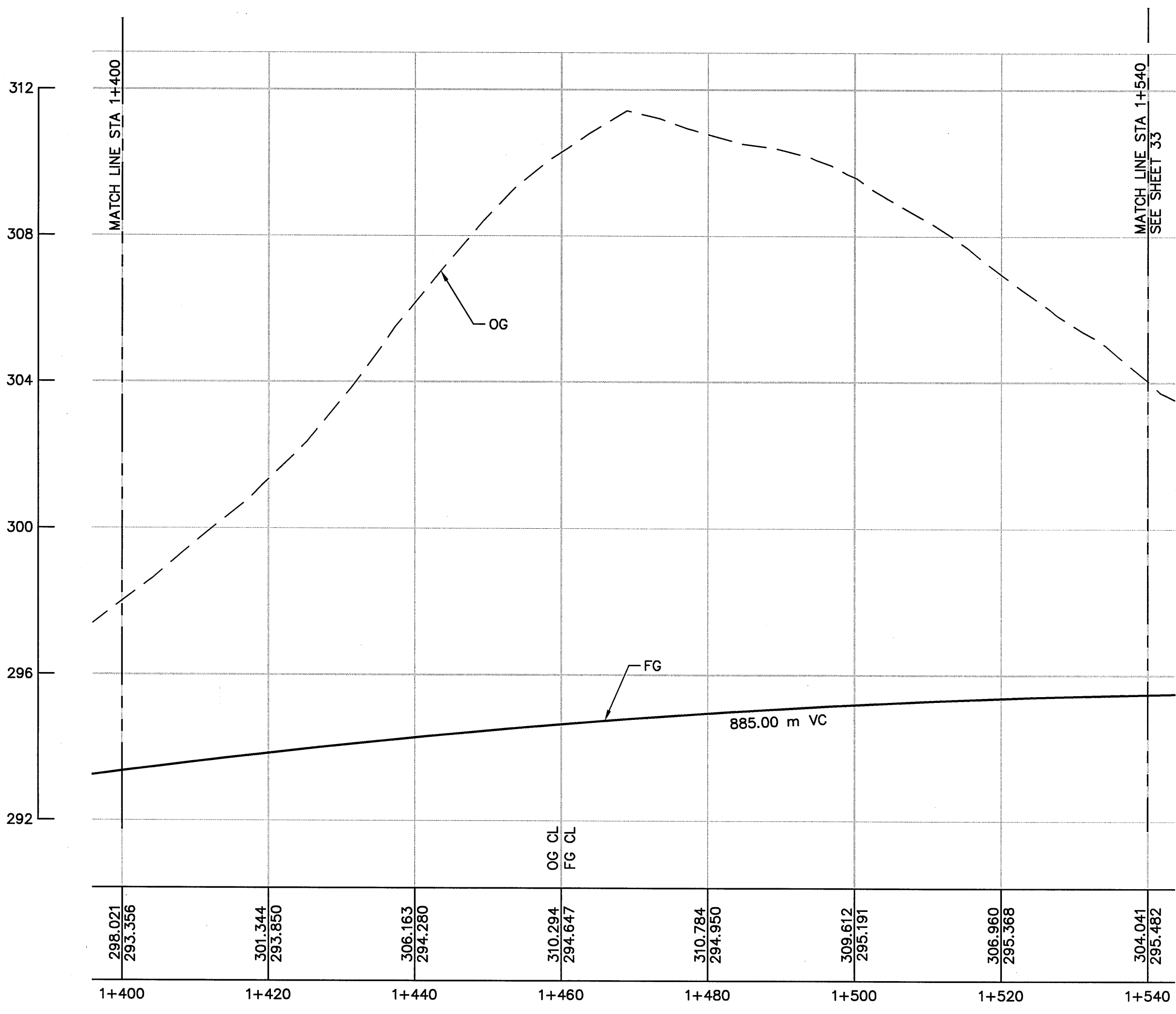
SUPERELEVATION DIAGRAM
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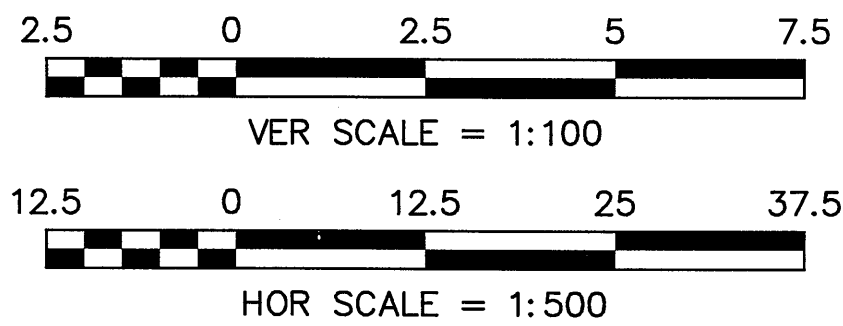
PROFILE
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SUPERELEVATION DIAGRAM
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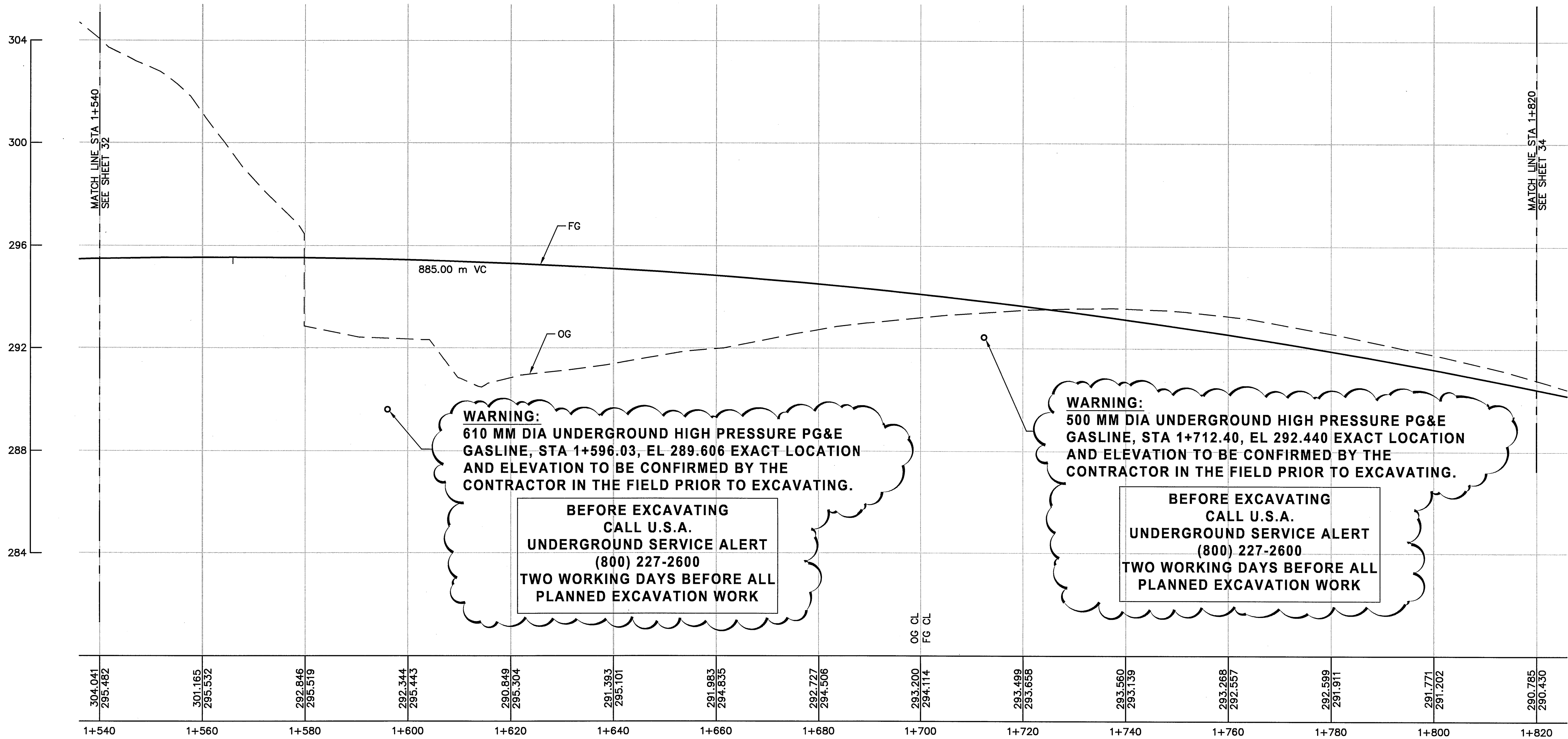
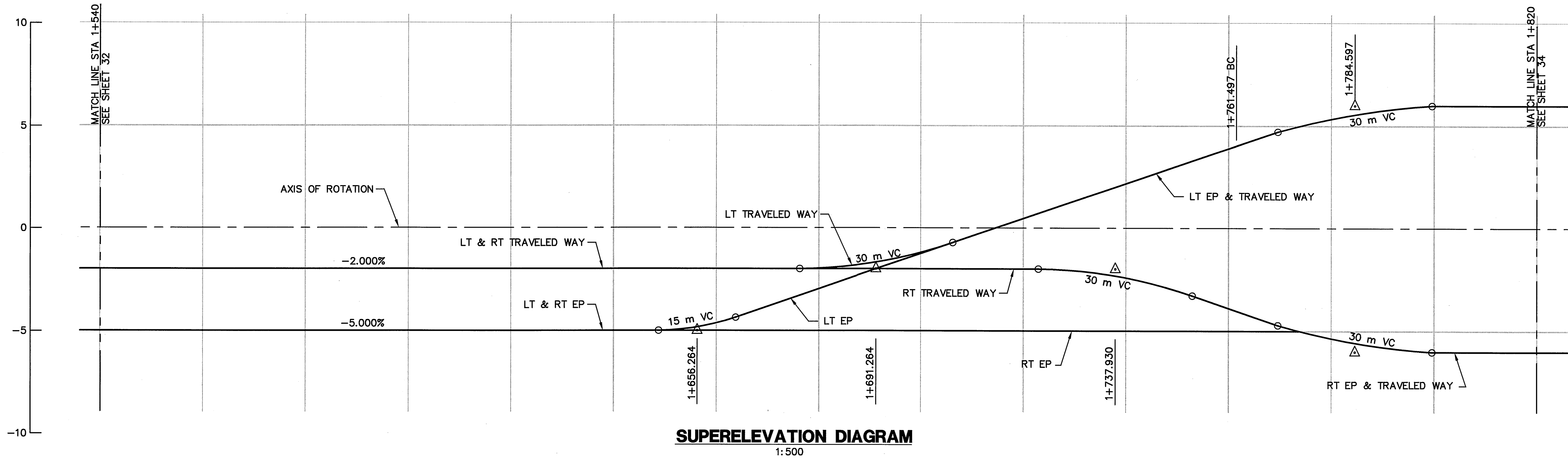
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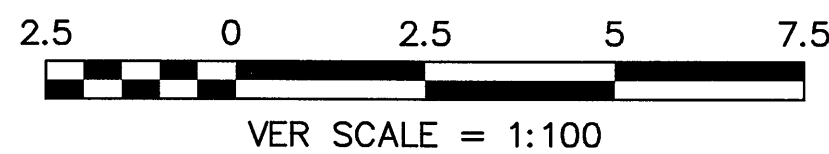
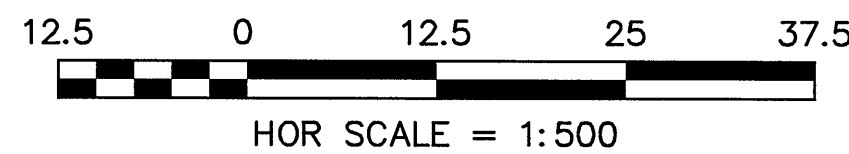
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 PROFILE & SUPERELEVATION V LINE	
DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 32 OF 145	
FILE NO. U-357-6	
REVISIONS	
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PROFILE
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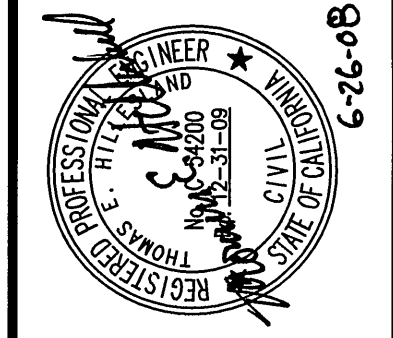
FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
**PROFILE & SUPERELEVATION
V LINE**

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	33 OF 145
FILE NO.	U-357-6



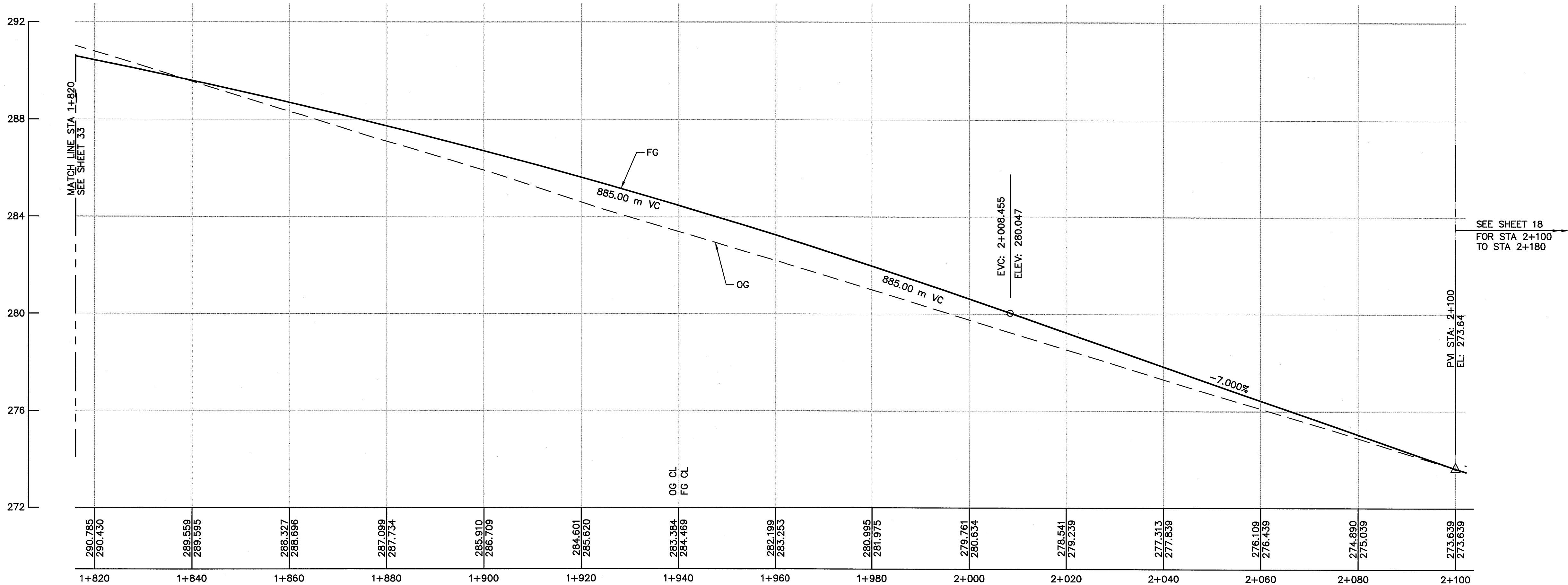
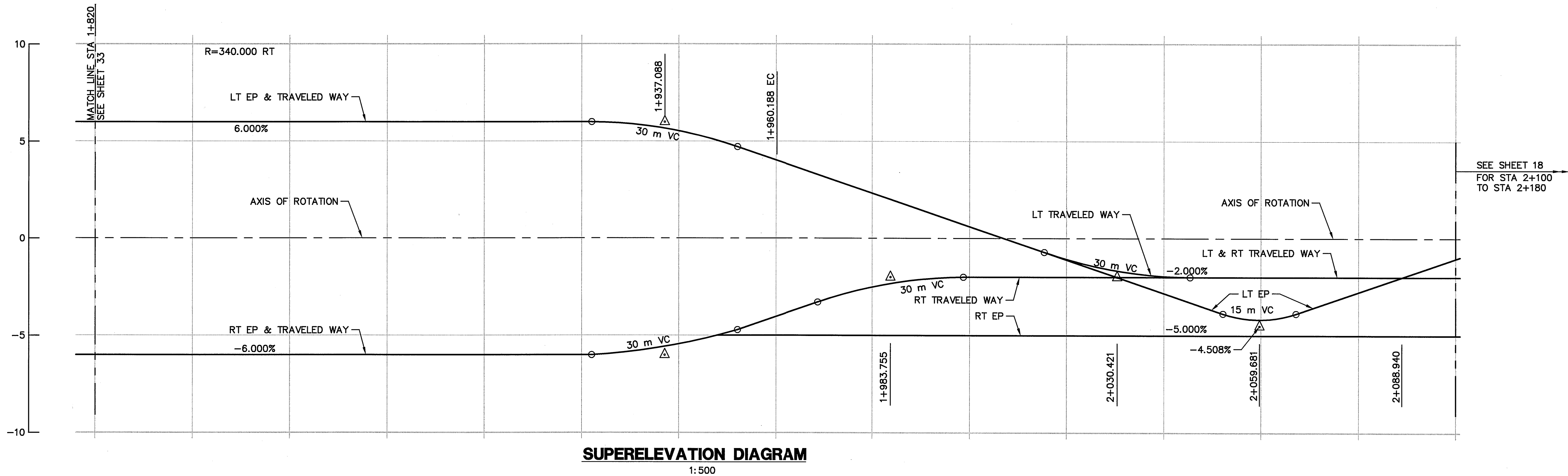
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238	CHECKED: T. HILESAND
Mofatt & Nichol	APPROVED: B. ZABIN
DRAWN: A. BROWNOVA	DESIGNED: S. HO

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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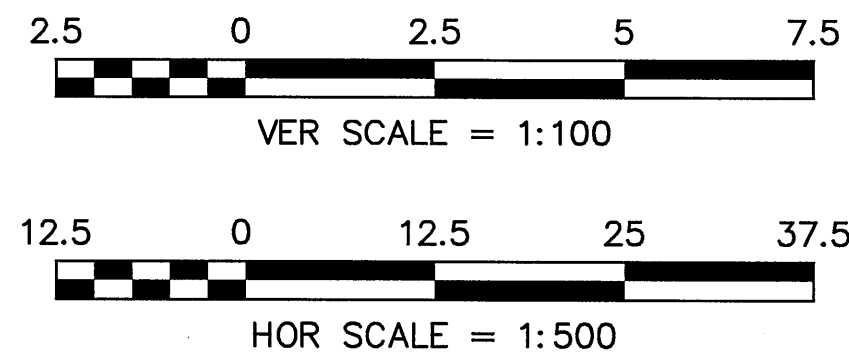
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PROFILE
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V LINE



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

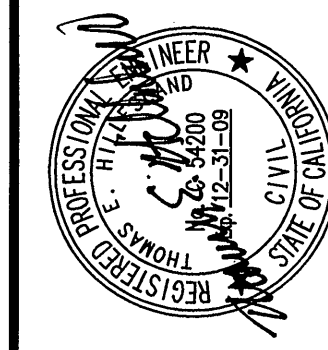
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
PROFILE & SUPERELEVATION
V LINE

DATE: JAN 2008
SCALE: AS SHOWN
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 34 OF 145
FILE NO.: U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238

Moffatt & Nichol

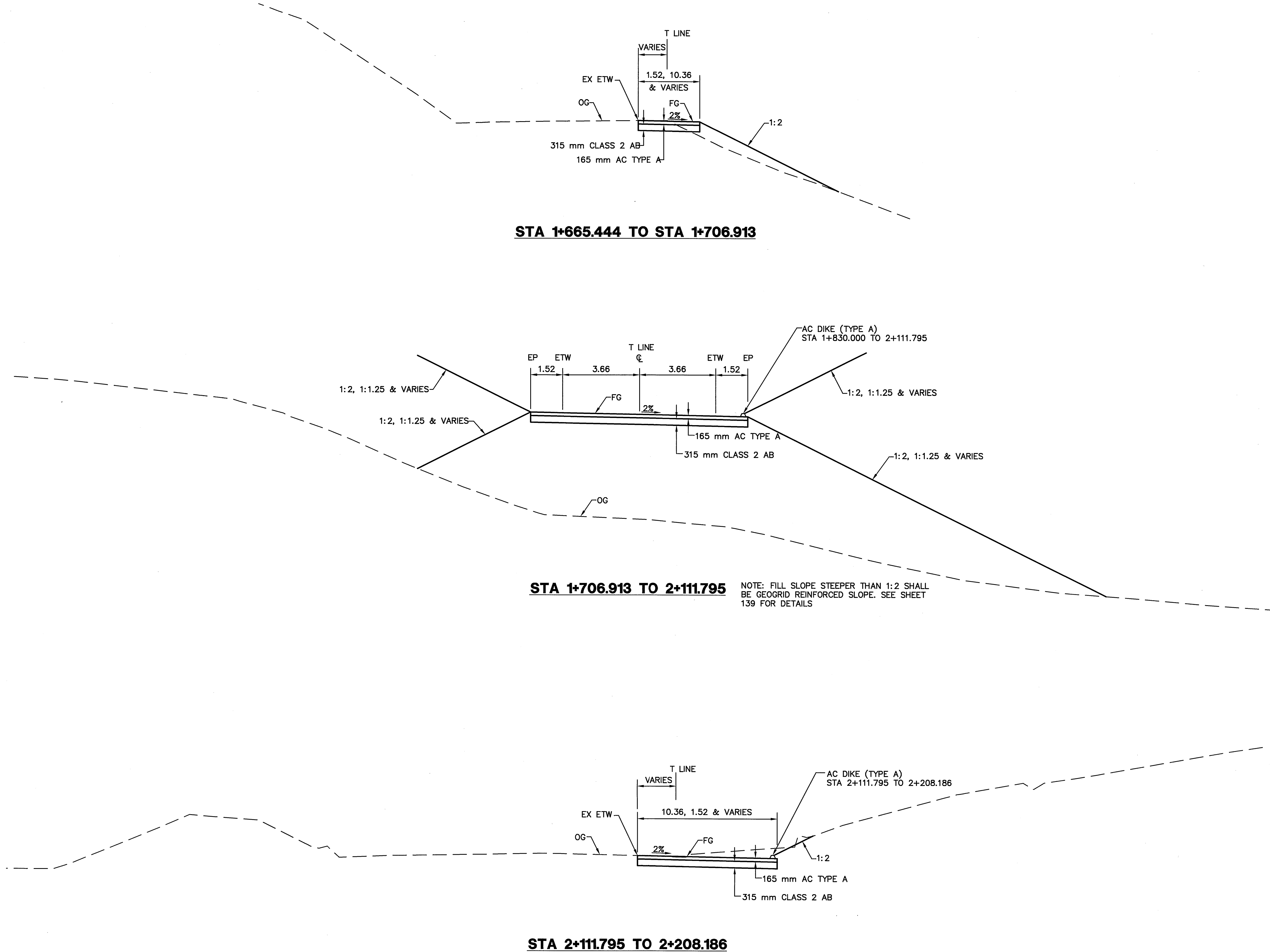


REVISIONS

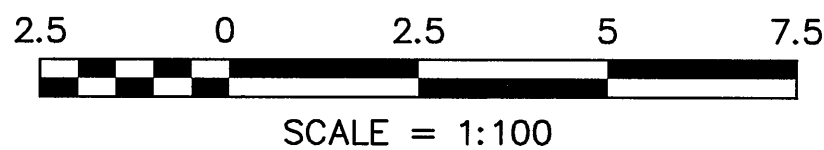
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CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	SURVEY	
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FOR REDUCED METRIC PLANS
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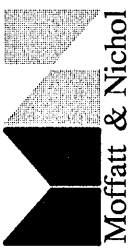


COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
TEMPORARY BYPASS ROADWAY
TYPICAL SECTIONS

DATE: JAN 2008 SCALE: AS SHOWN
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 35 OF 145
FILE NO.: U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1288



DRAWN: N. KOSLOVSKI
DESIGNED: S. HO
CHECKED: T. MILLESLAND
APPROVED: B. ZAHN



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPV'D



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①	110.000	56°56'56"	59.662	109.334	N 640591.460 E 1891104.360
②	300.000	18°51'52"	49.838	98.775	N 640791.942 E 1891072.204
③	30.000	52°32'44"	14.809	27.513	N 640587.153 E 1891146.175
④	15.300	56°57'56"	8.301	15.212	N 640588.661 E 1891169.237



FOR REDUCED METRIC PLANS 0 50 mm
ORIGINAL SCALE IS IN METERS

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVIEWED:  REVIEWED:  JAMES CHAU		DRAWN: A. BOROMKOVA APPROVAL: RECOMMENDED: S. HO STANLEY W. FENG		1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238  Moffatt & Nichol				REVISIONS	
DATE	JAN 2008	SCALE	AS SHOWN								
WORK ORDER NO.	R23265										
SPECIFICATION NO.	1903										
SHEET NO.	36 OF 145										
FILE NO.	U-357-6										
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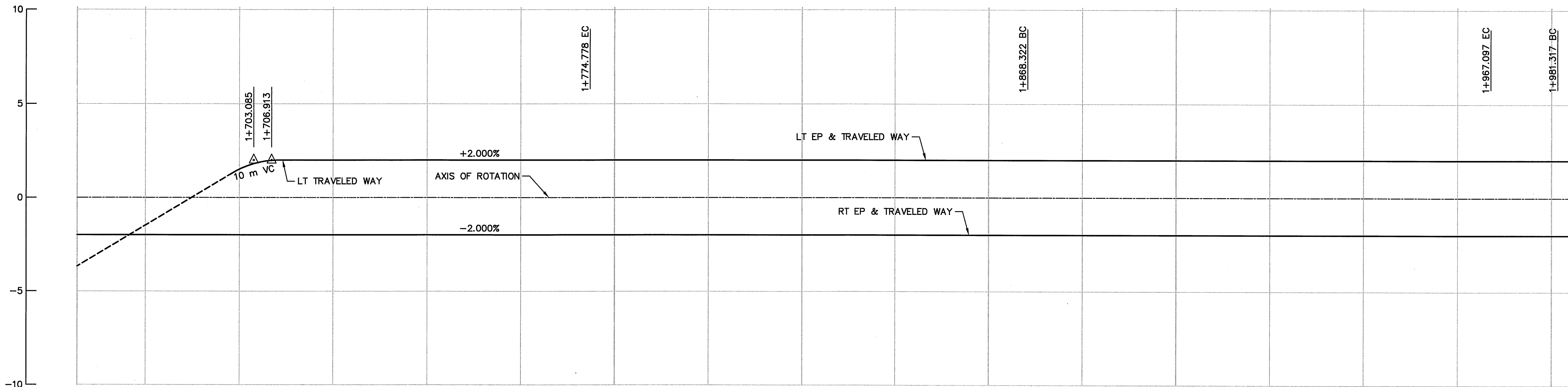


 Morfiatt & Nichol	1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238	
	DESIGN:	CHECKER:
	A. BOROVKOVA	T. HEILESAND
	D. ZERNI	APPROVED:
S. HO	B. ZERNI	

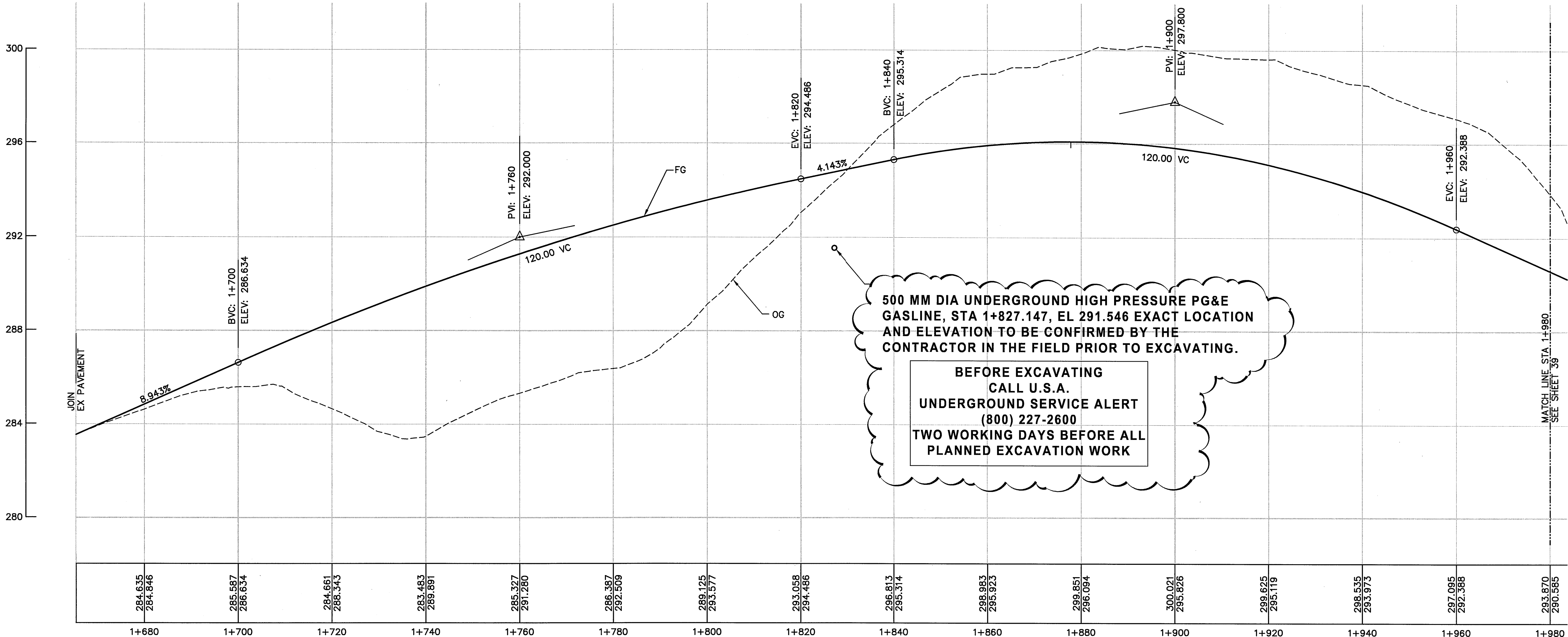
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NO.	DESCRIPTION	BY	DATE	APPROV'D

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
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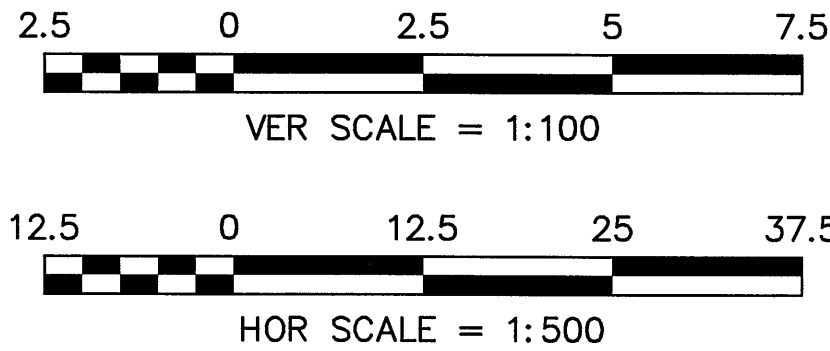
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SUPERELEVATION DIAGRAM
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PROFILE
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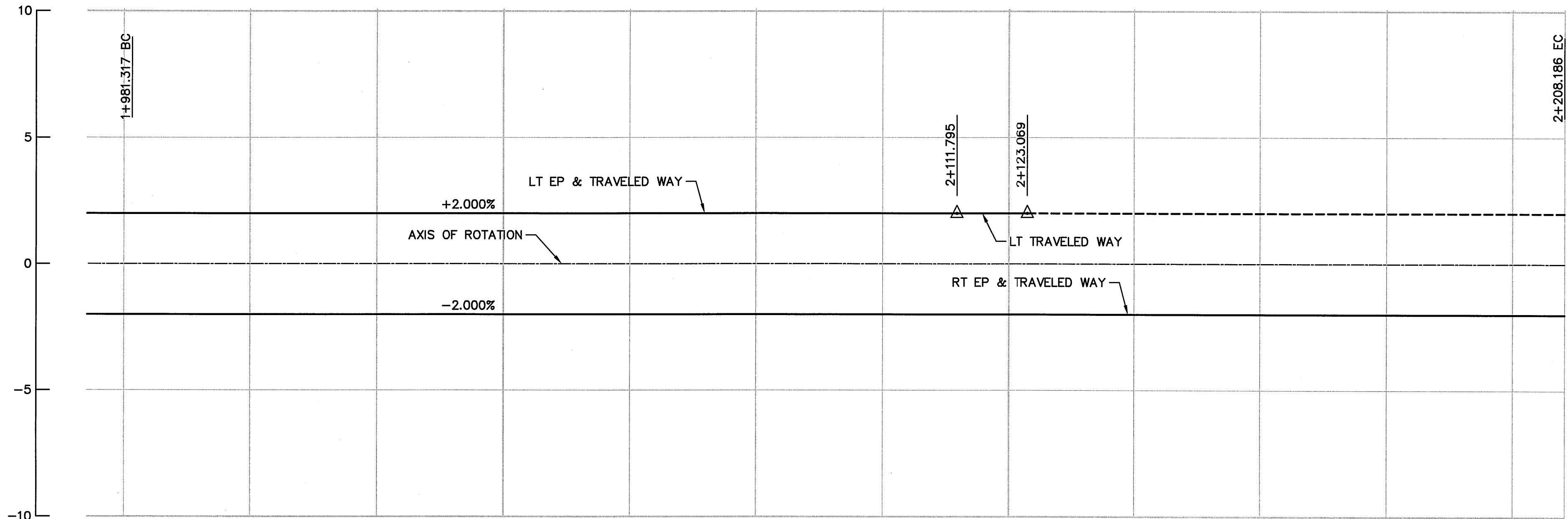


FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

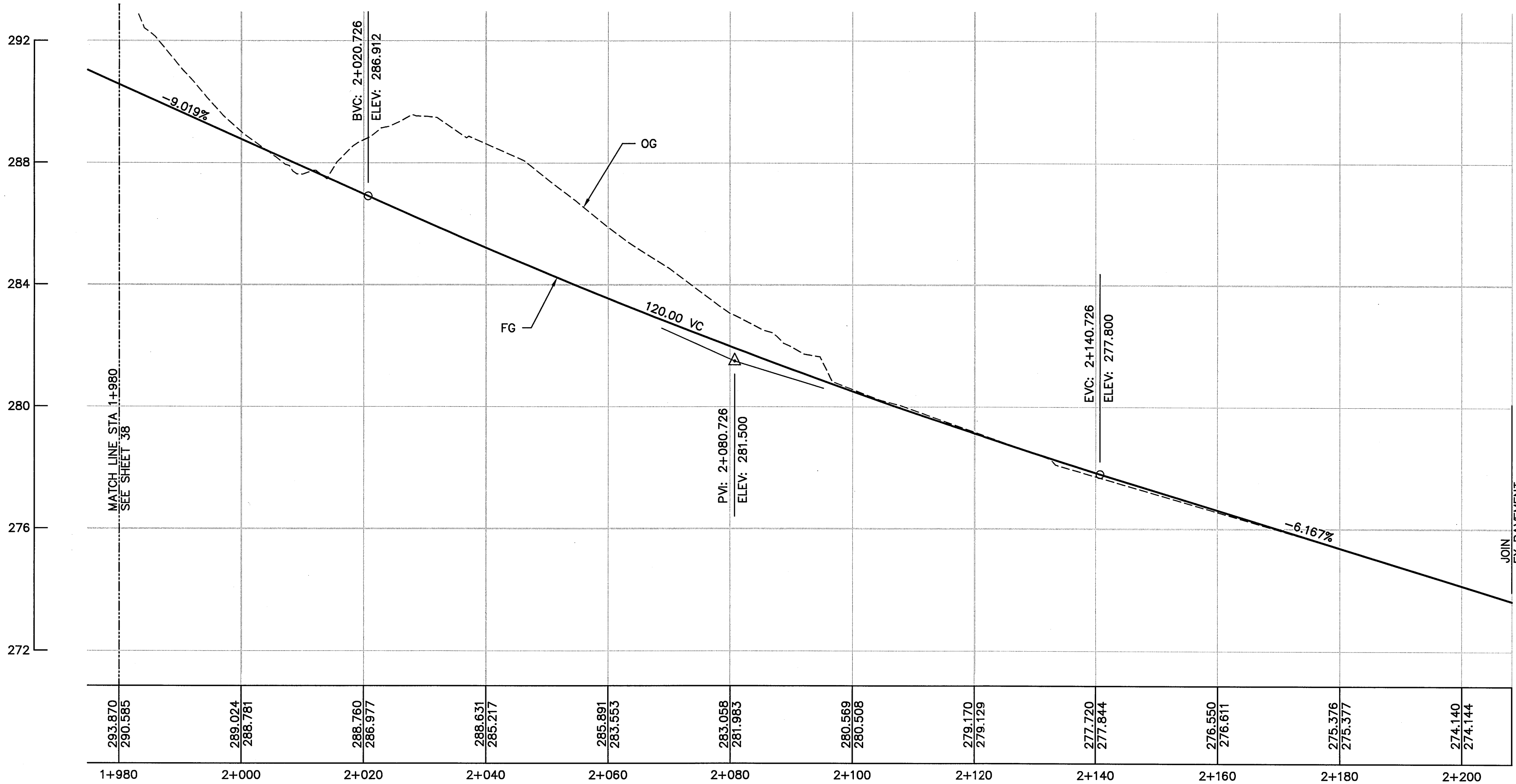
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY BYPASS ROADWAY PROFILE & SUPERELEVATION T LINE		NO. DESCRIPTION BY DATE APP'D	
DATE: JAN 2008	SCALE: AS SHOWN	NO.	
WORK ORDER NO. R23265	SPECIFICATION NO. 1903	NO.	
SHEET NO. 38 OF 145	FILE NO. U-357-6	NO.	
APPROVAL: RECOMMENDED: DESIGNED: DRAWN: CHECKED: T. MILLESAND B. ZAHNI		NO.	
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288		REGISTERED PROFESSIONAL ENGINEER T. MILLESAND CIVIL STATE OF CALIFORNIA 6-25-08	
Moffatt & Nichol			

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION	SURVEY		
MAINTENANCE	TRAFFIC		
REAL ESTATE	ENVIRONMENTAL		

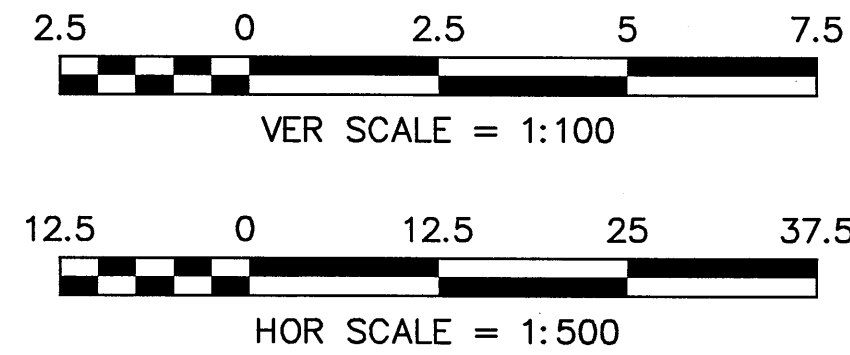
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SUPERELEVATION DIAGRAM
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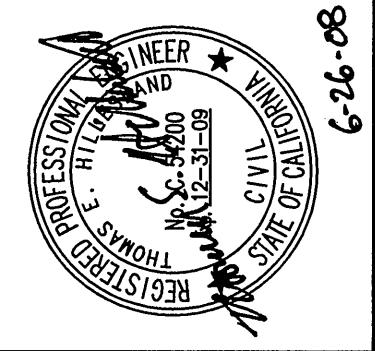


PROFILE
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY BYPASS ROADWAY PROFILE & SUPERELEVATION T LINE	
DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 39 OF 145	
FILE NO. U-357-6	

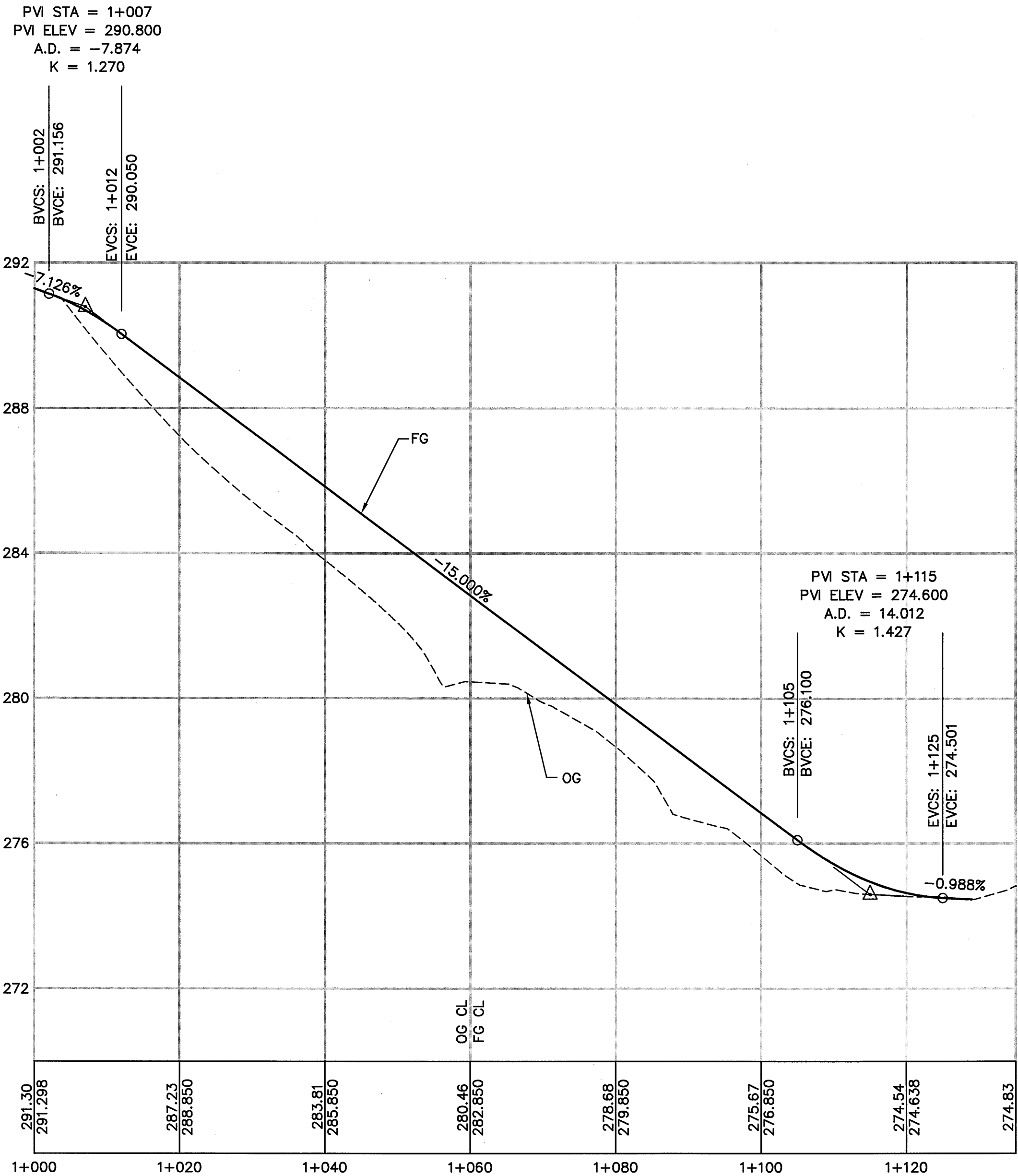
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288	
Moffatt & Nichol	
CHECKED: T. HILLESAND	APPROVED: B. ZAHN
DRAWN: A. BOROMKOVA	DESIGNED: S. HO



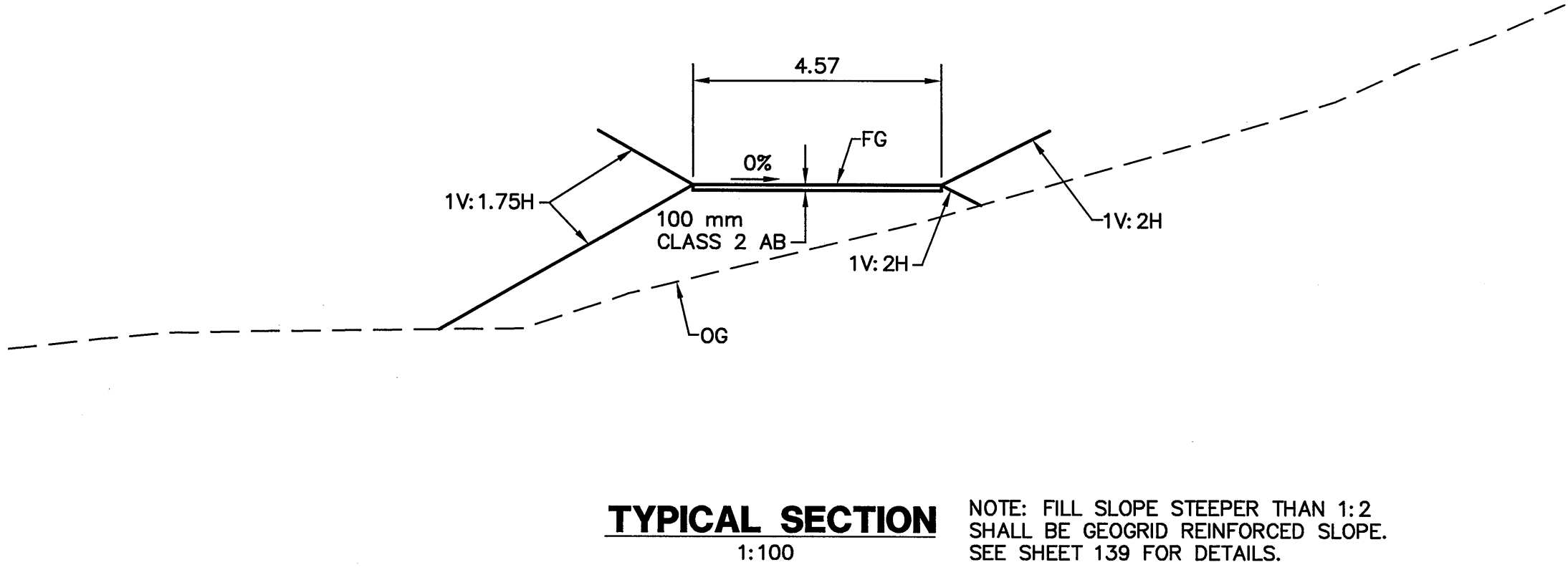
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REAL ESTATE			ENVIRONMENTAL	

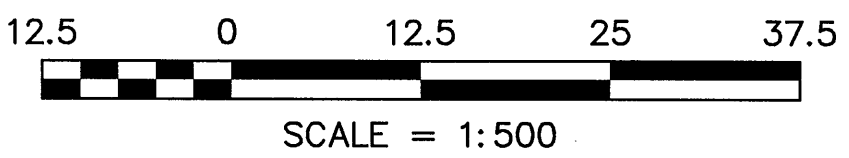
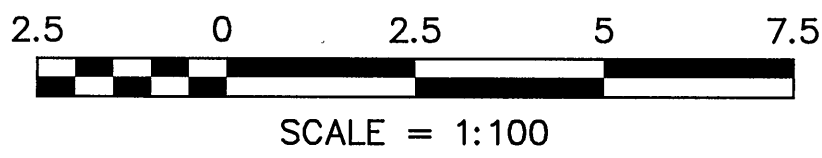
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PROFILE
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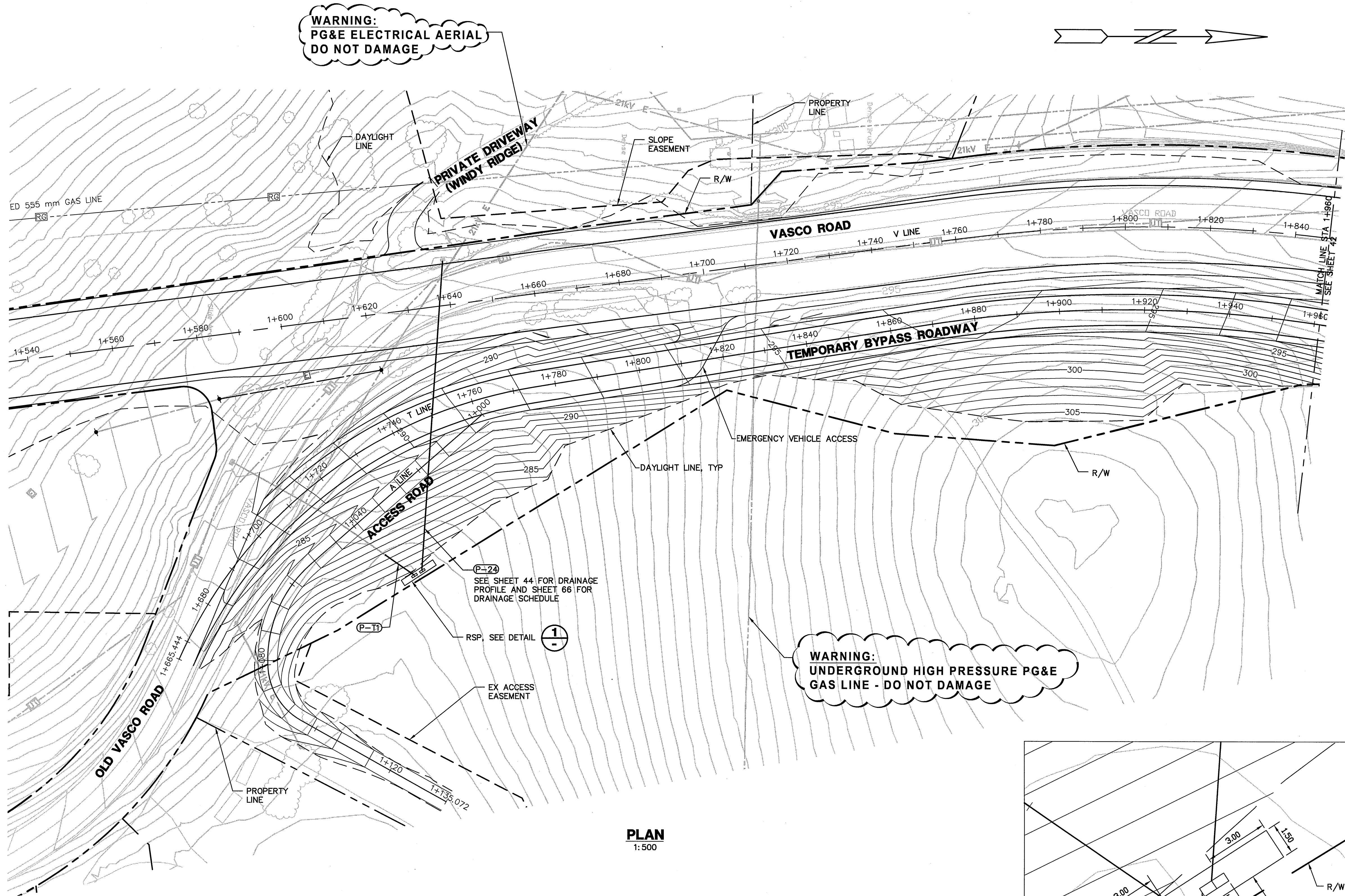
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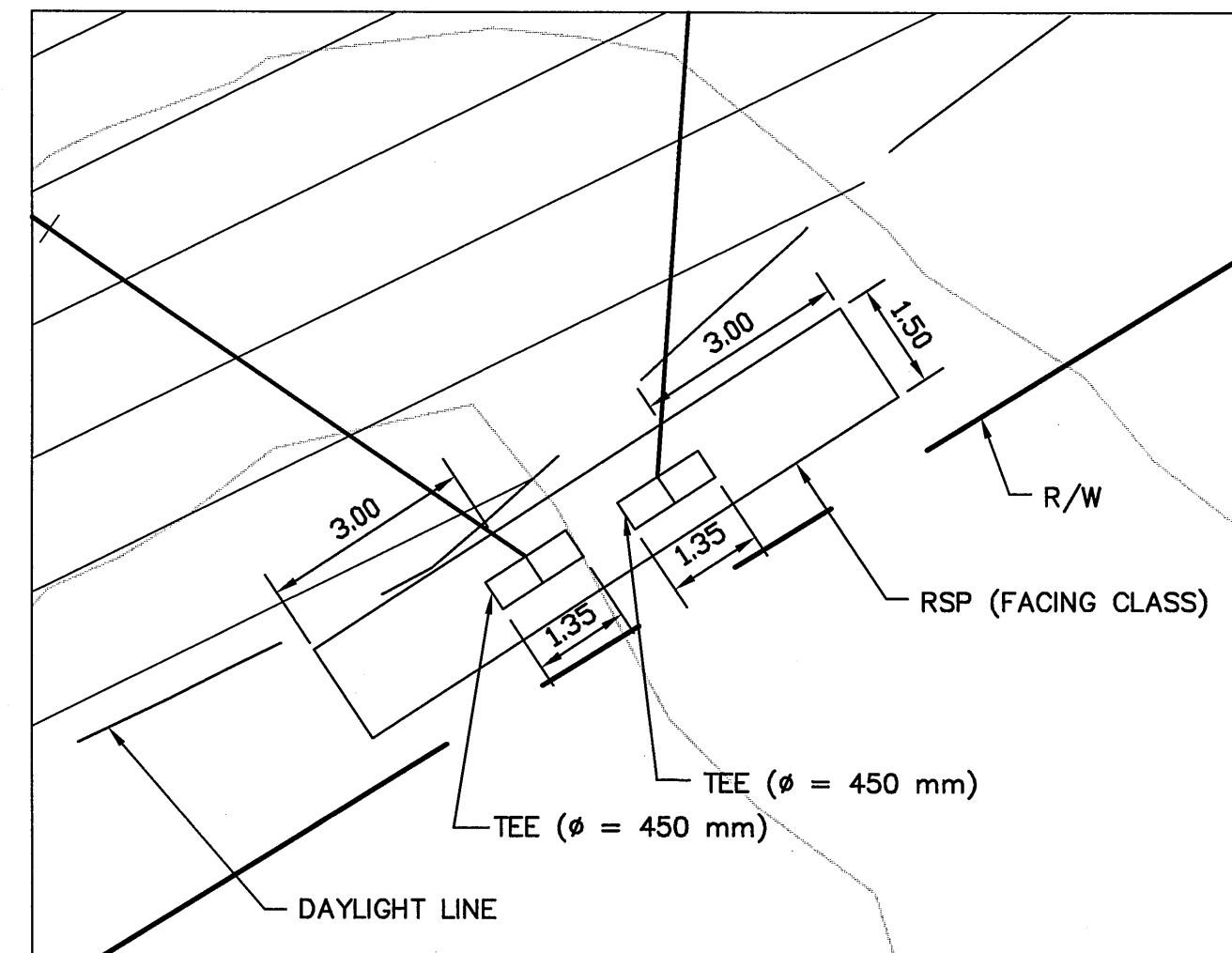
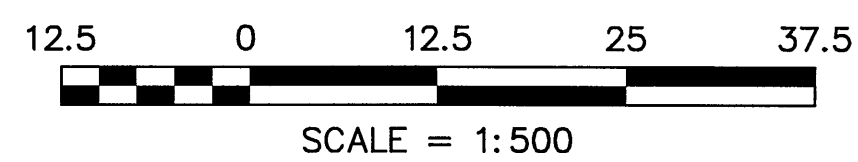
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3	
ACCESS ROAD PROFILE AND TYPICAL SECTIONS	
DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 40 OF 145	
FILE NO. U-357-6	
REVISIONS	
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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
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PLAN
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ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY BYPASS ROADWAY DRAINAGE AND GRADING PLANS	
DATE: JAN 2008	SCALE: AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 41	OF 145
FILE NO. U-357-6	

 1300 CLAY STREET, SUITE 650 OAKLAND, CALIFORNIA 94612 (510) 945-1238	
CHECKED: T. HILLESAND APPROVED: B. ZASIN	DRAWN: A. BURDOWNA DESIGNED: S. HO



REVISIONS		NO.	DESCRIPTION	BY	DATE	APPVD
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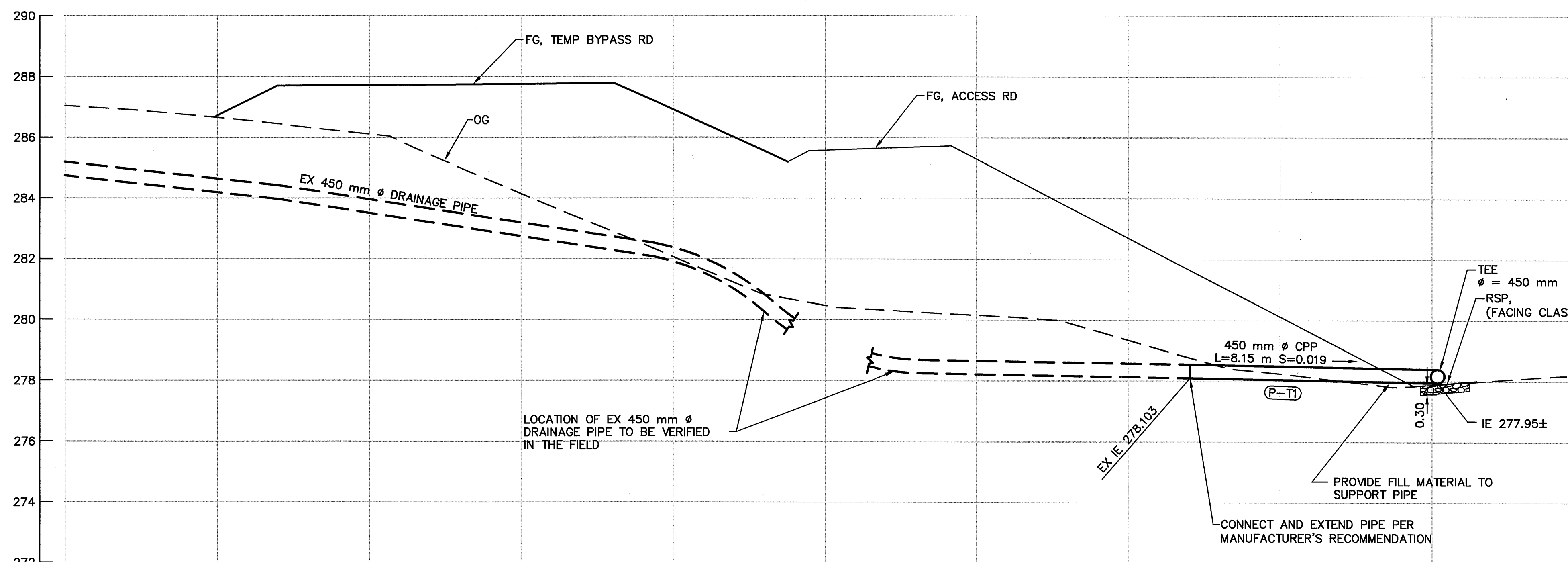


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY BYPASS ROADWAY DRAINAGE AND GRADING PLANS		REVIEWED:  BOND NO.  REVIEWED:  JAMES CHOI		REVIEWED:  ARTHUR C. CARRERA APPROVAL RECOMMENDED: STANLEY W. FENG		DATE: JAN 2008 SCALE: AS SHOWN	
WORK ORDER NO. R23265		SPECIFICATION NO. 1903		SHEET NO. 42 OF 145		FILE NO. U-357-6	
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238		 Moffatt & Nichol		DRAWN: A. BOROVKOVA DESIGNED: S. HO		CHECKED: T. HILLESAND APPROVED: B. ZAFEN	
PROFESSIONAL ENGINEER REGISTERED THOMAS E. HILLESAND No. 48-54200 Exp. 12-31-93 CIVIL STATE OF CALIFORNIA		REVISIONS		NO.		DESCRIPTION	
BY DATE		APPROVED		6-26-08			

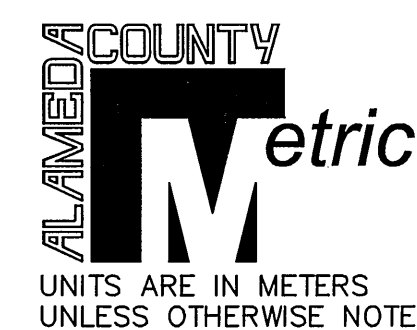
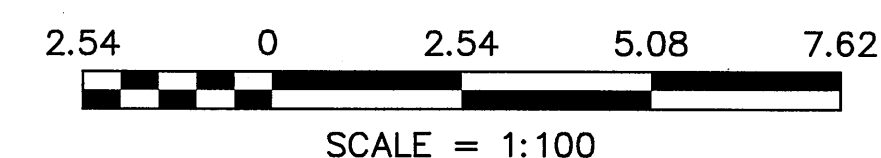
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CONSTRUCTION			SURVEY	
MAINTENANCE			TRAFFIC	
REAL ESTATE			ENVIRONMENTAL	

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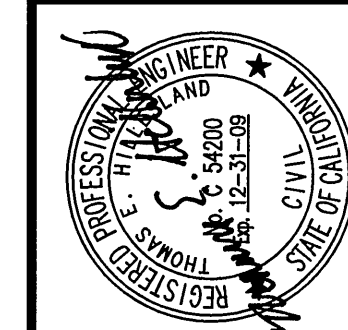
DRAINAGE PROFILE P-T1 (T LINE STA 1+712.69)

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VER 1:100



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVIEWED: <u>BOG</u>	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY BYPASS ROADWAY DRAINAGE PROFILE		BOND BY: <u>James Chu</u> REVIEWED: JAMES CHU APPROVAL: ARTHUR C. CARREIRA RECOMMENDED:	
DATE	JAN 08 2008	SCALE	AS SHOWN
WORK ORDER NO. <u>R23265</u>			
SPECIFICATION NO. <u>1903</u>			
SHEET NO. <u>43</u> OF <u>145</u>			
FILE NO. <u>U-557-6</u>			

 Moffatt & Nichol	1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238	
	DRAWN: N. KOBAYASHI	CHECKED: T. HILLESAND
	DESIGNED:	APPROVED:

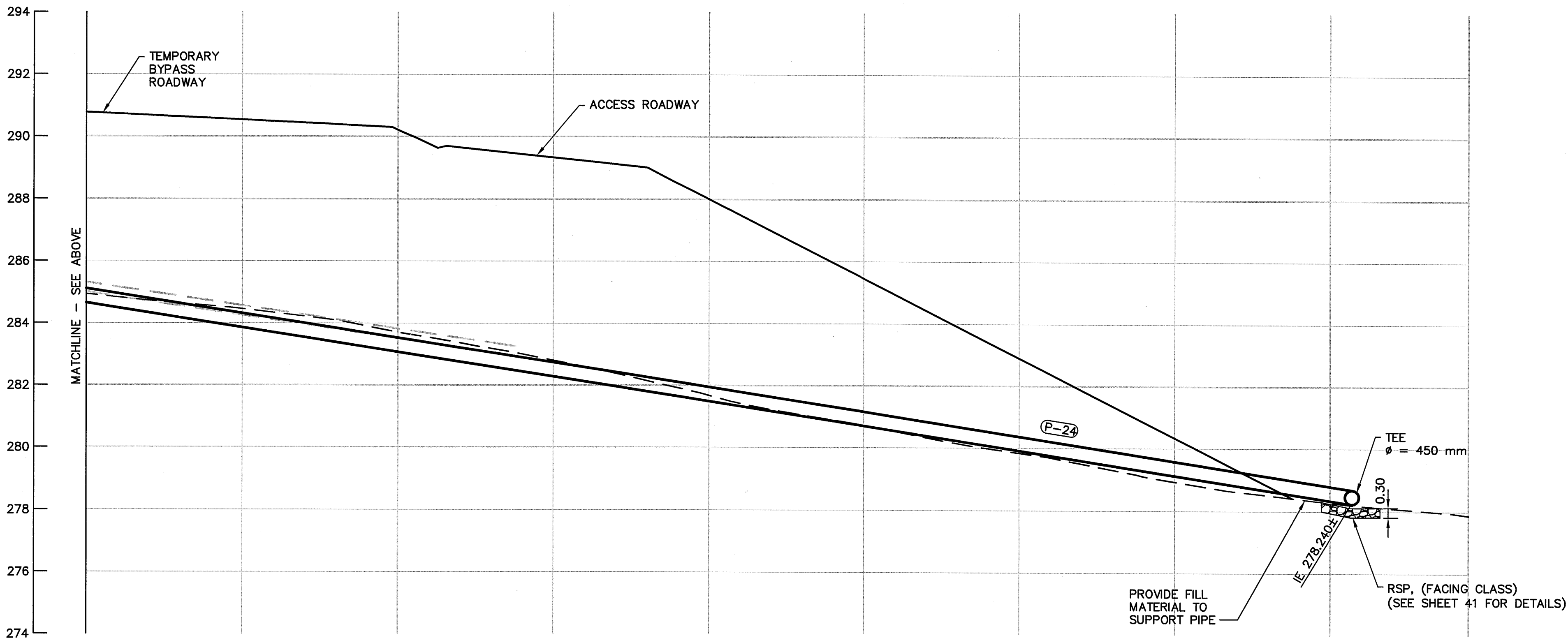


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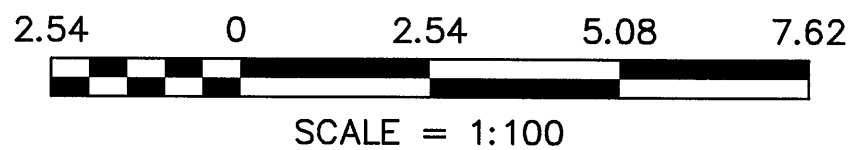
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DRAINAGE PROFILE P-24 (T LINE STA 1-750.05)

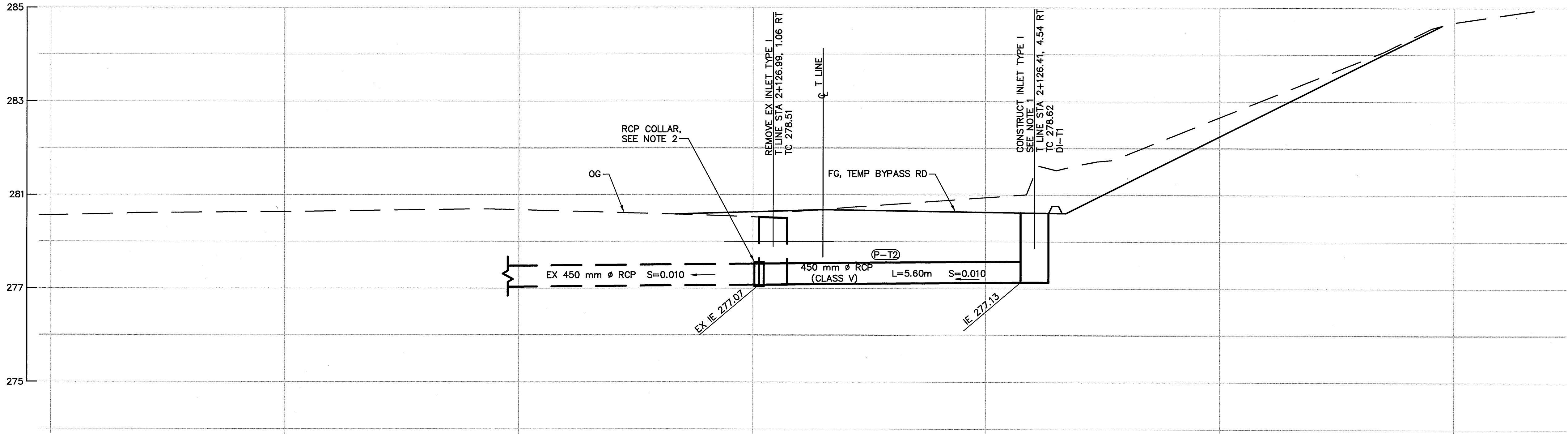
HOR 1:100
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COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY		THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY BYPASS ROADWAY DRAINAGE PROFILE	
DATE JAN 2008	SCALE AS SHOWN	WORK ORDER NO. R23265	SHEET NO. 44 OF 145
SPECIFICATION NO. 1903		FILE NO. U-357-6	
APPROVE RECOMMENDED: STANLEY W. FUNG		APPROVE RECOMMENDED: STANLEY W. FUNG	
DESIGNED: S. HO		DESIGNED: S. HO	
DRAWN: M. KRAYASH		DRAWN: M. KRAYASH	
CHECKED: T. HILLESAND		CHECKED: T. HILLESAND	
APPROVED: B. ZARNI		APPROVED: B. ZARNI	
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288		1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288	
Moffatt & Nichol		Moffatt & Nichol	
REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 12548		REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 12548	
REVISIONS		REVISIONS	
NO.	DESCRIPTION	NO.	DESCRIPTION
BY	DATE	BY	DATE
APPVD		APPVD	

CONSTRUCTION	REVIEWED BY:	DATE:	SURVEY	REVIEWED BY:	DATE:
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REAL ESTATE			ENVIRONMENTAL		

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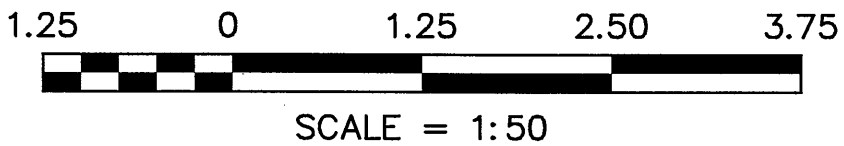


DRAINAGE PROFILE P-T2 (T LINE STA 2+126.88)

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VER 1:50

NOTES:

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2. FOR RCP COLLAR, SEE COUNTY METRIC DESIGN GUIDELINE DG-504.

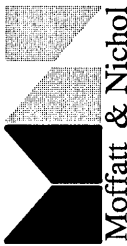


COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

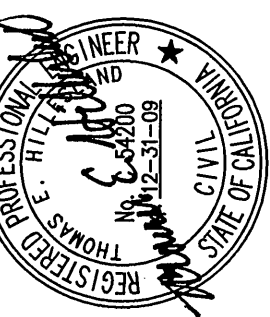
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
TEMPORARY BYPASS ROADWAY
DRAINAGE PROFILE

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	45 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238



REVIEWED:	DESIGNED:
BOND NO.	S. HO
REVIEWED:	DESIGNED:
JAMES CHU	N. KOBAYASHI
REVIEWED:	DESIGNED:
ARTHUR G. CARREIRA	T. HILLESAND
APPROVAL RECOMMENDED:	APPROVED:
STANLEY W. FINE	B. ZAENI

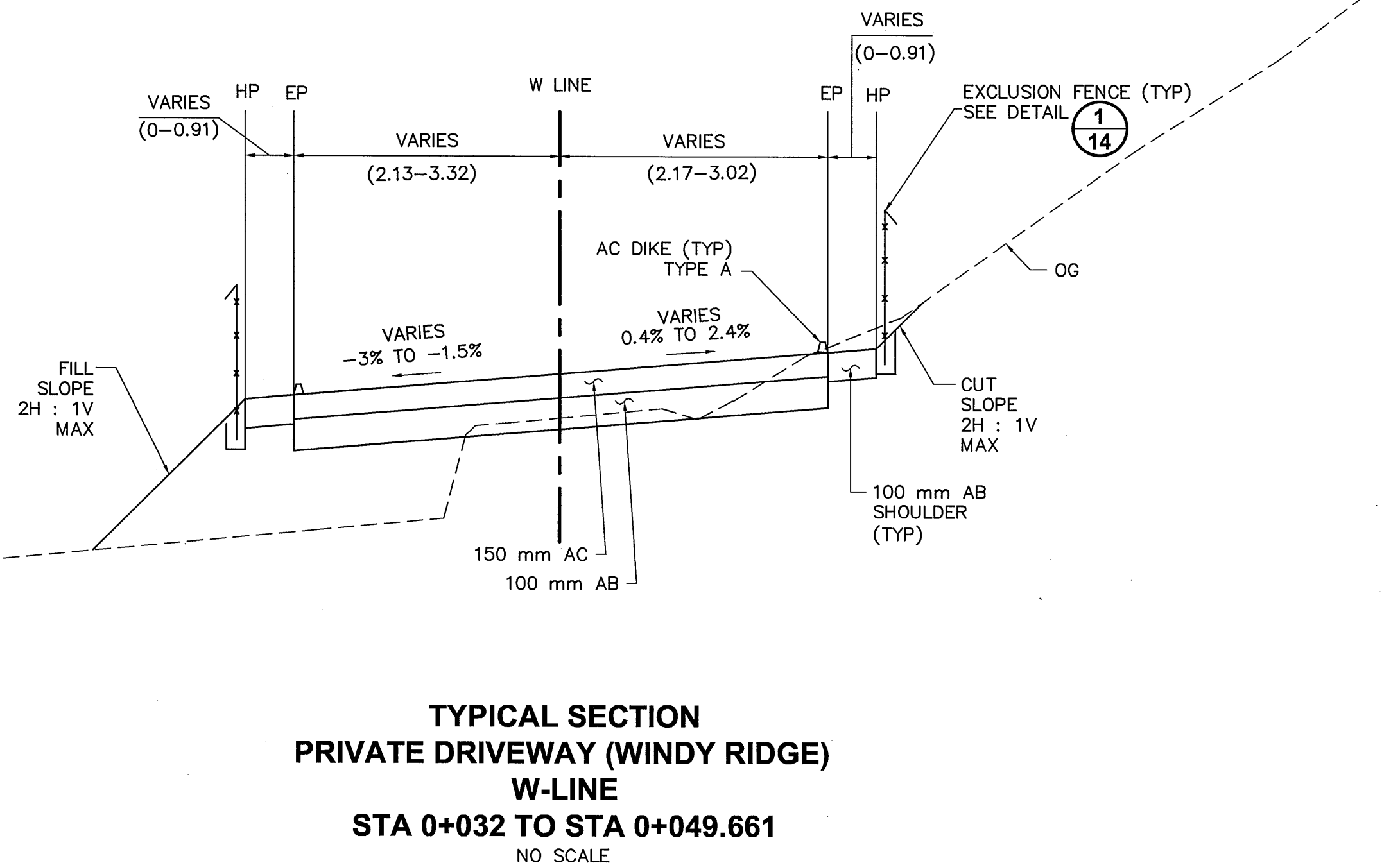
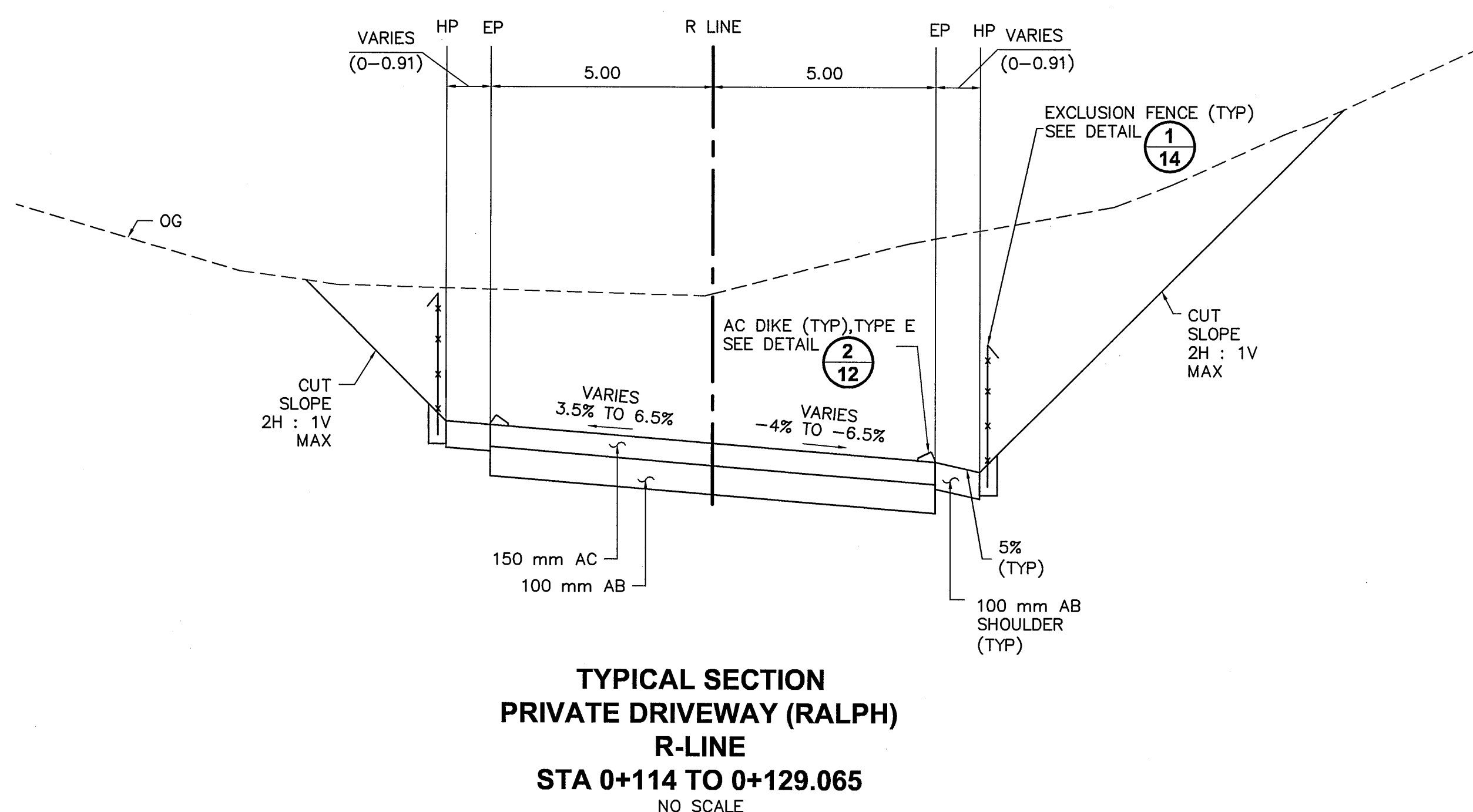
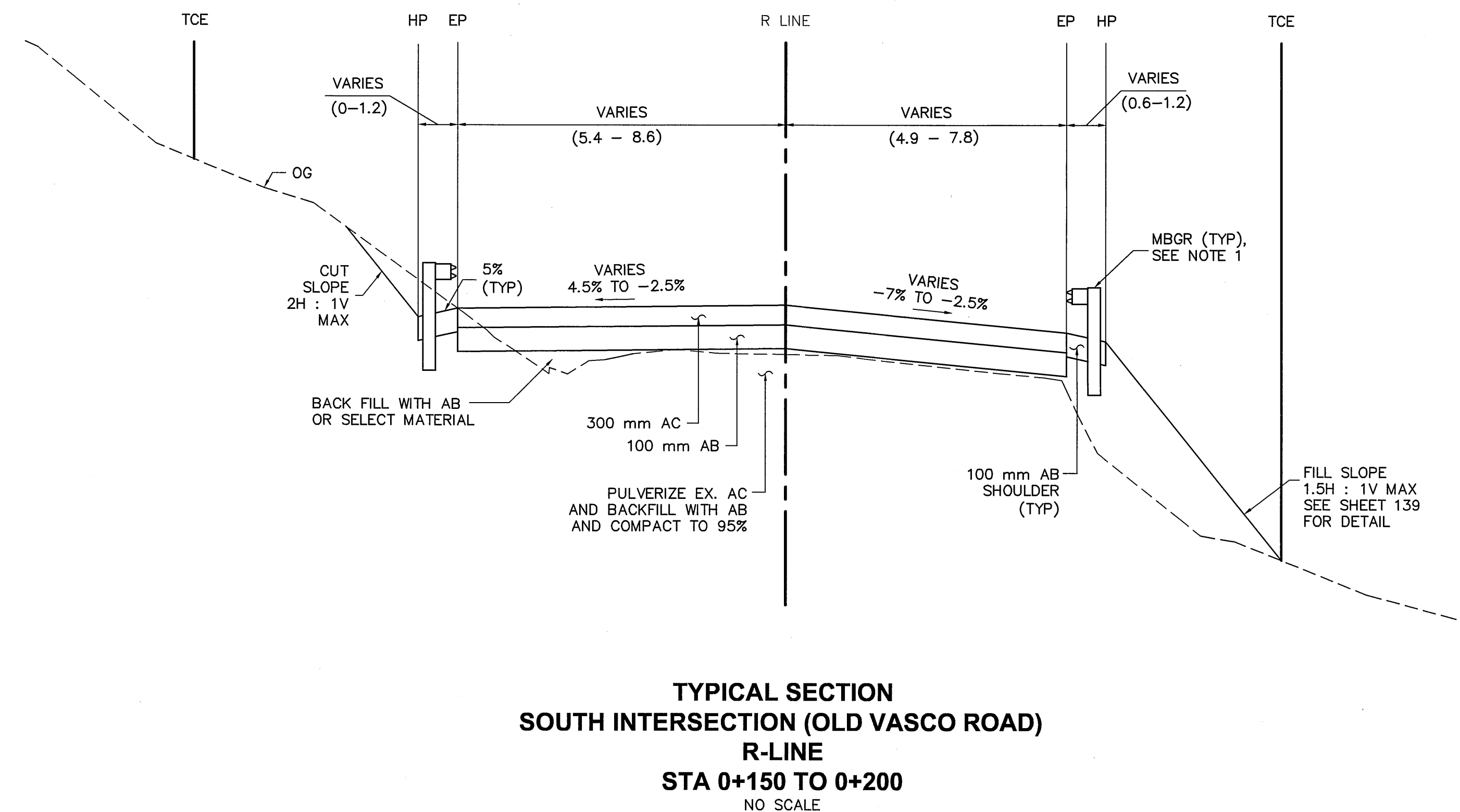
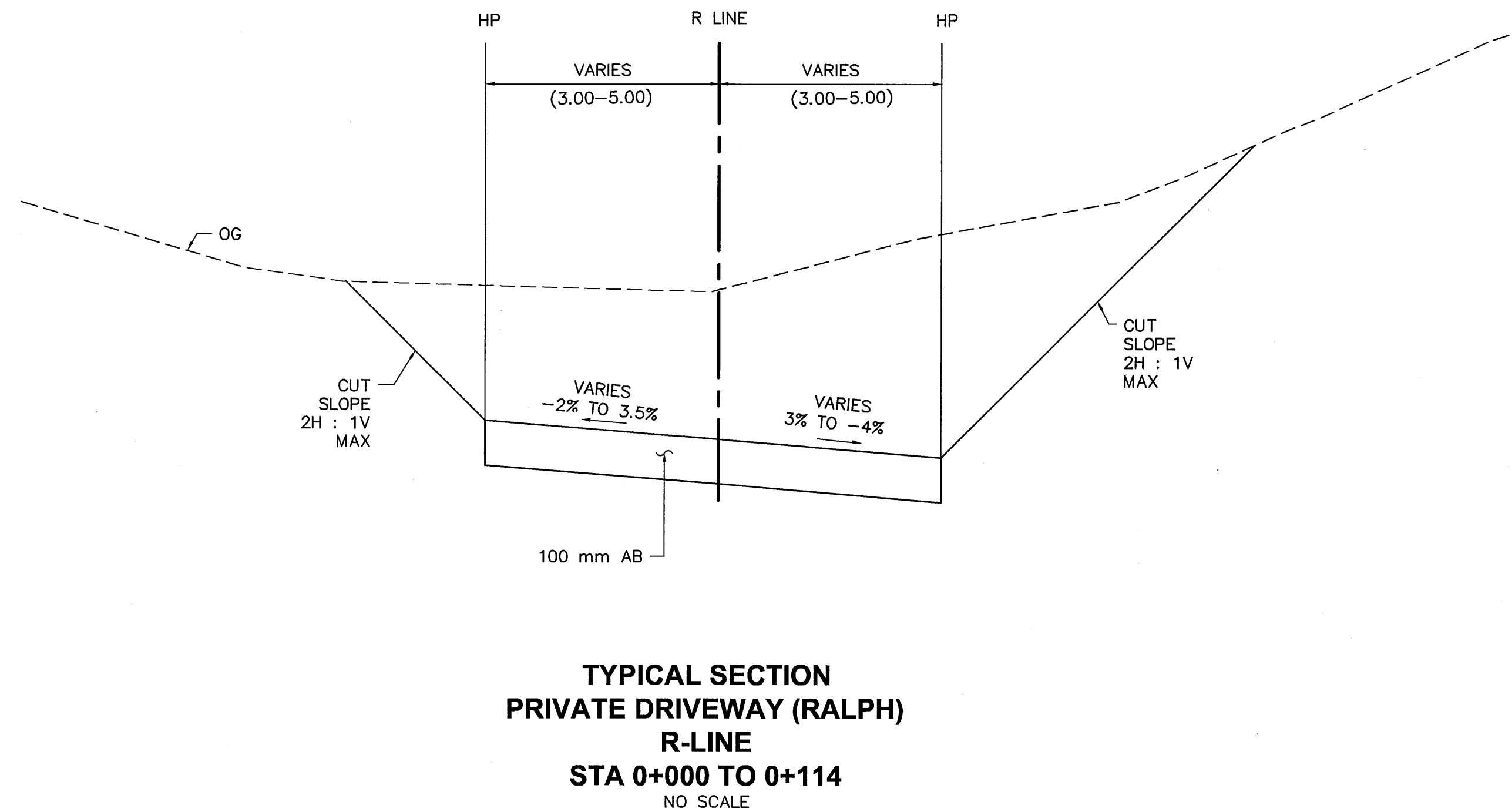


REVISIONS

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CONSTRUCTION	REVIEWED BY:	DATE:
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REAL ESTATE	TRAFFIC	
	ENVIRONMENTAL	

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NOTES

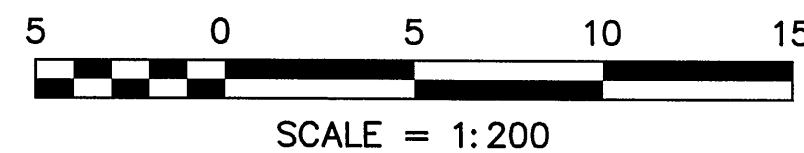
1. GUARDRAILS TYPICALLY CONSTRUCTED ALONG FILL SLOPES. SEE PLAN SHEET 49 FOR LOCATION.
2. SEE PLAN SHEETS 48-51 FOR AC DIKE LOCATION. SEE STD PLANS A87B AND A77C4 FOR DETAILS NOT SHOWN.



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY			
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 SOUTH INTERSECTION & PRIVATE DRIVEWAYS (RALPH & WINDY RIDGE) TYPICAL SECTION & DETAILS			
WORK ORDER NO.	R23265	DATE	APPROVED
SPECIFICATION NO.	1903	BY	DATE
SHEET NO.	46 OF 145	DESCRIPTION	NO.
FILE NO.	U-357-6		

N:\ROAD\r23265\~Final Plan - Vasco Road 2007\South Intersection Plans.dwg 6-11-08 05:17:22 PM janer

LINE	LENGTH	BEARING
L8	0.792	S08°06'37"W
L9	0.792	S61°14'25"W
L10	10.06	N42°29'42"W
L11	35.85	S60°25'46"W
L12	3.59	S34°40'31"W
L13	2.76	S34°40'31"W



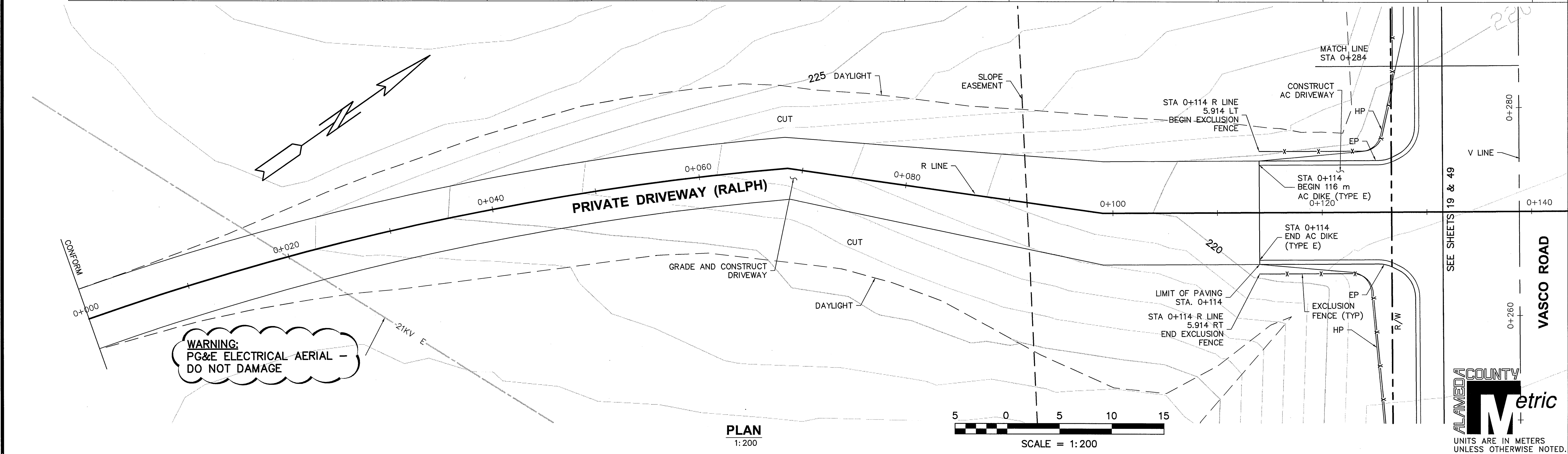
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

**SOUTH INTERSECTION
LAYOUT PLAN**

BRANN		APPROVAL	RECOMMENDED	SCALE	1.000
JANE RINGOLD		JAMES CH			
RESIGNED		APPROVAL	RECOMMENDED	SCALE	1.000
TAM NGUYEN		ARTHUR G. HARNER			
CHECKED					

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPVD
△				
△				
△				
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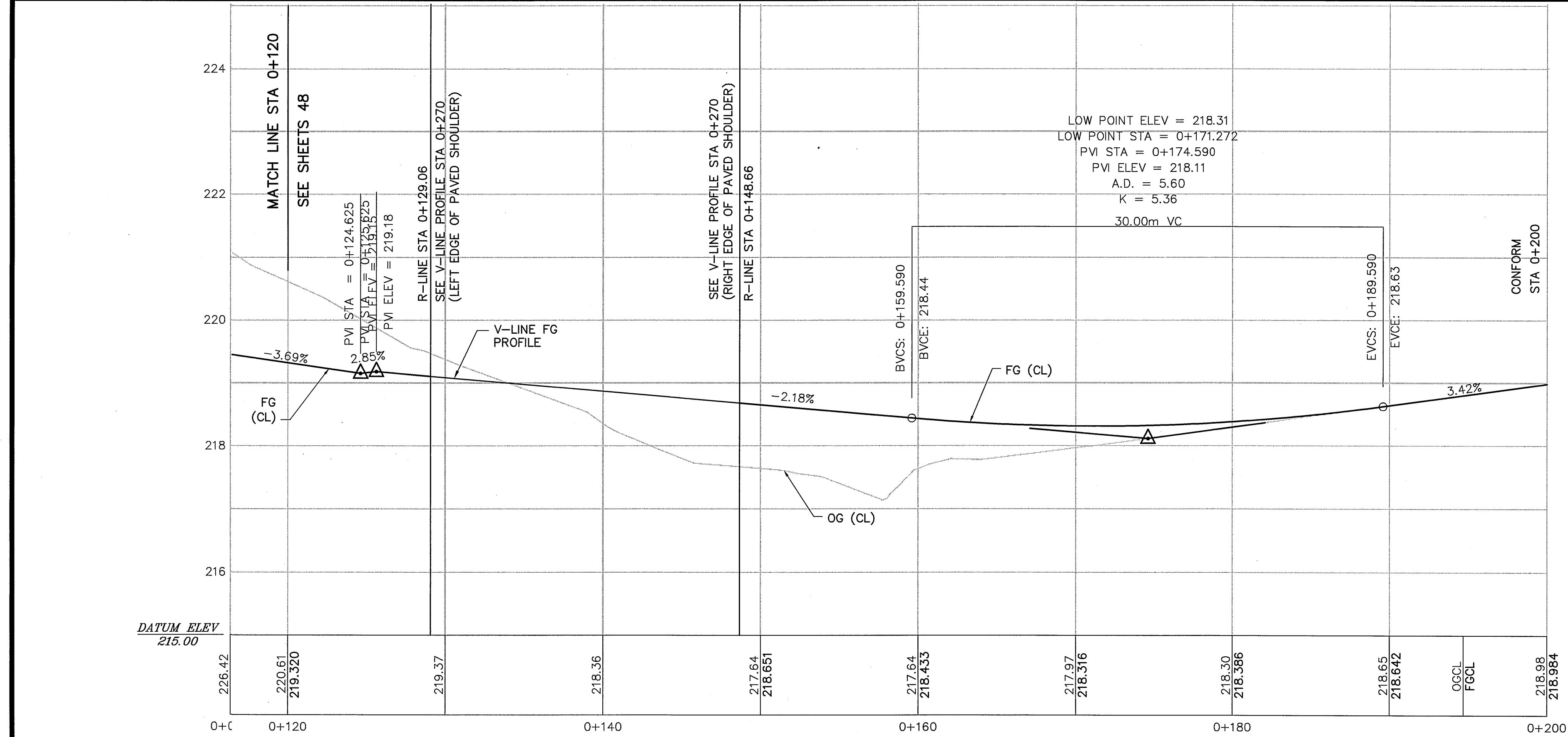
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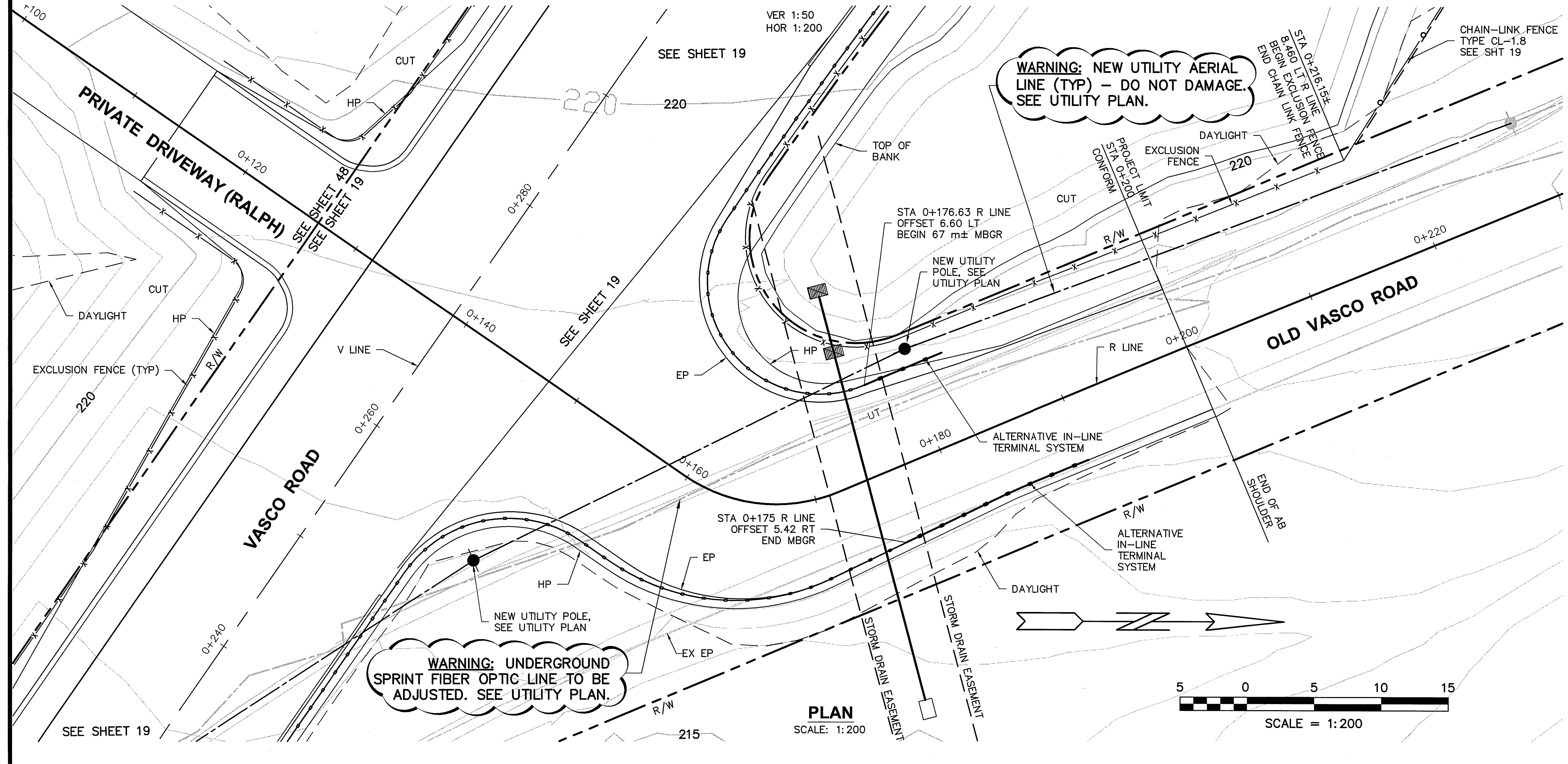
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 PRIVATE DRIVEWAY (RALPH) PLAN & PROFILE				NO.	
WORK ORDER NO. R23265		APPROVAL RECOMMENDED JAMES CHY JAMES CHY		BY	
SPECIFICATION NO. 1903		APPROVAL RECOMMENDED JAMES CHY JAMES CHY		DESCRIPTION	
SHEET NO. 48 OF 145		DATE JAN 2008		DATE	
FILE NO. U-357-6		SCALE AS SHOWN		DATE	

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE	SURVEY			
REAL ESTATE	TRAFFIC			
	ENVIRONMENTAL			

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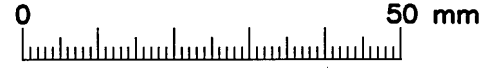


PROFILE R LINE



PLAN
SCALE: 1:200

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



LEGEND

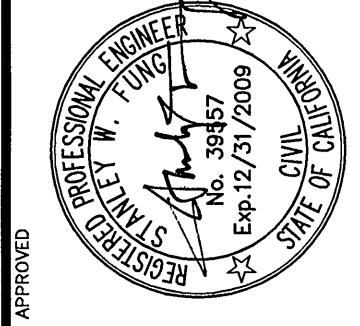
- ORIGINAL GROUND CENTERLINE PROFILE/ELEVATION (OGCL)
- FINISHED GRADE CENTERLINE PROFILE/ELEVATION (FGCL)
- SEE SHEET 47 FOR LEFT AND RIGHT EP PROFILES

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
SOUTH INTERSECTION
PLAN & PROFILE

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	49 OF 145
FILE NO.	U-357-6

DRAWN	APPROVAL	DATE	SCALE	AS SHOWN
JANIE BRADY	JAMES CH	JAN 2008		
DESIGNED	APPROVAL	DATE		
TAM NGUYEN	APPROVAL	JAN 2008		
CHECKED	DATE			
JOHN P. BATES				



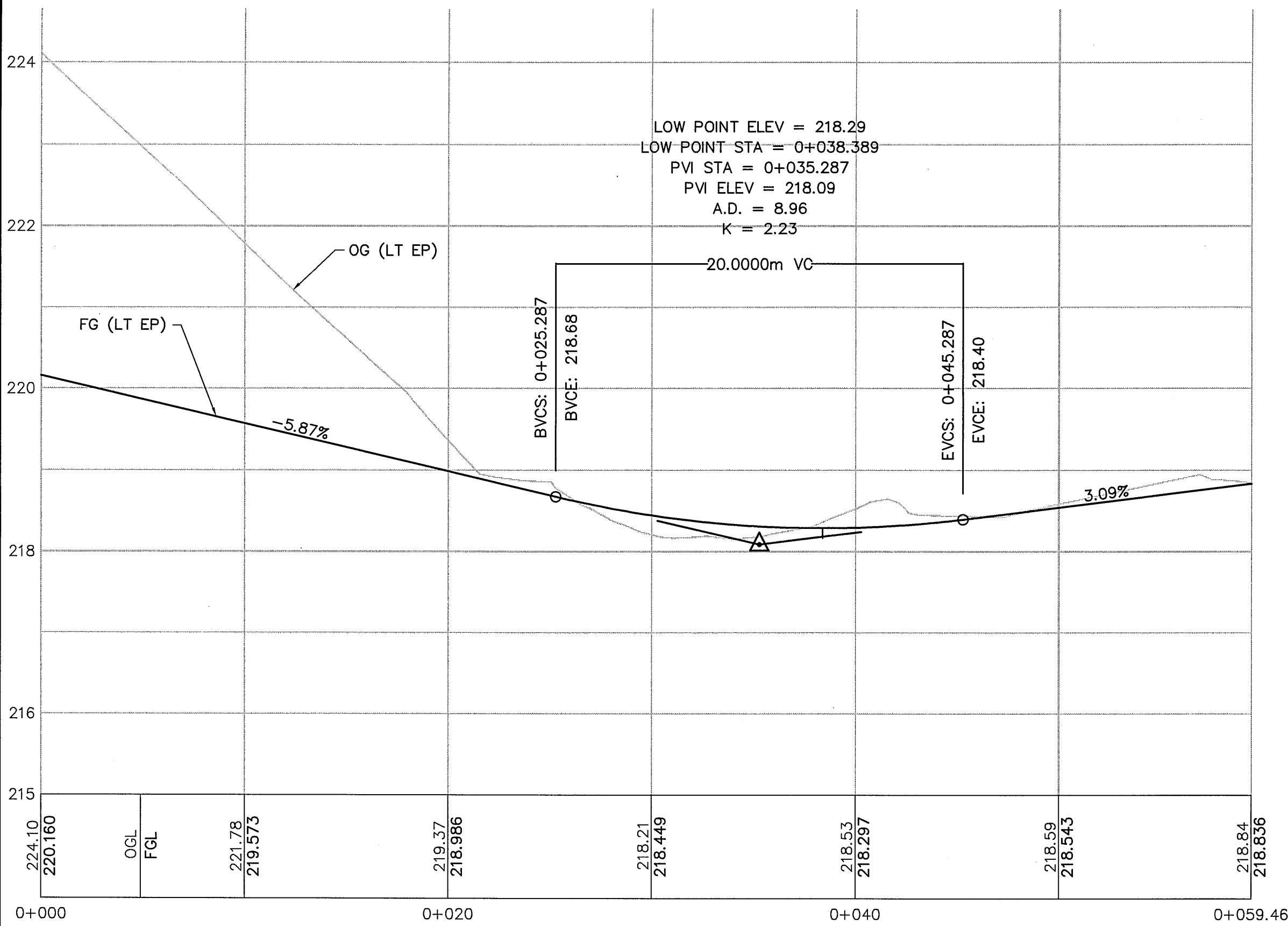
REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

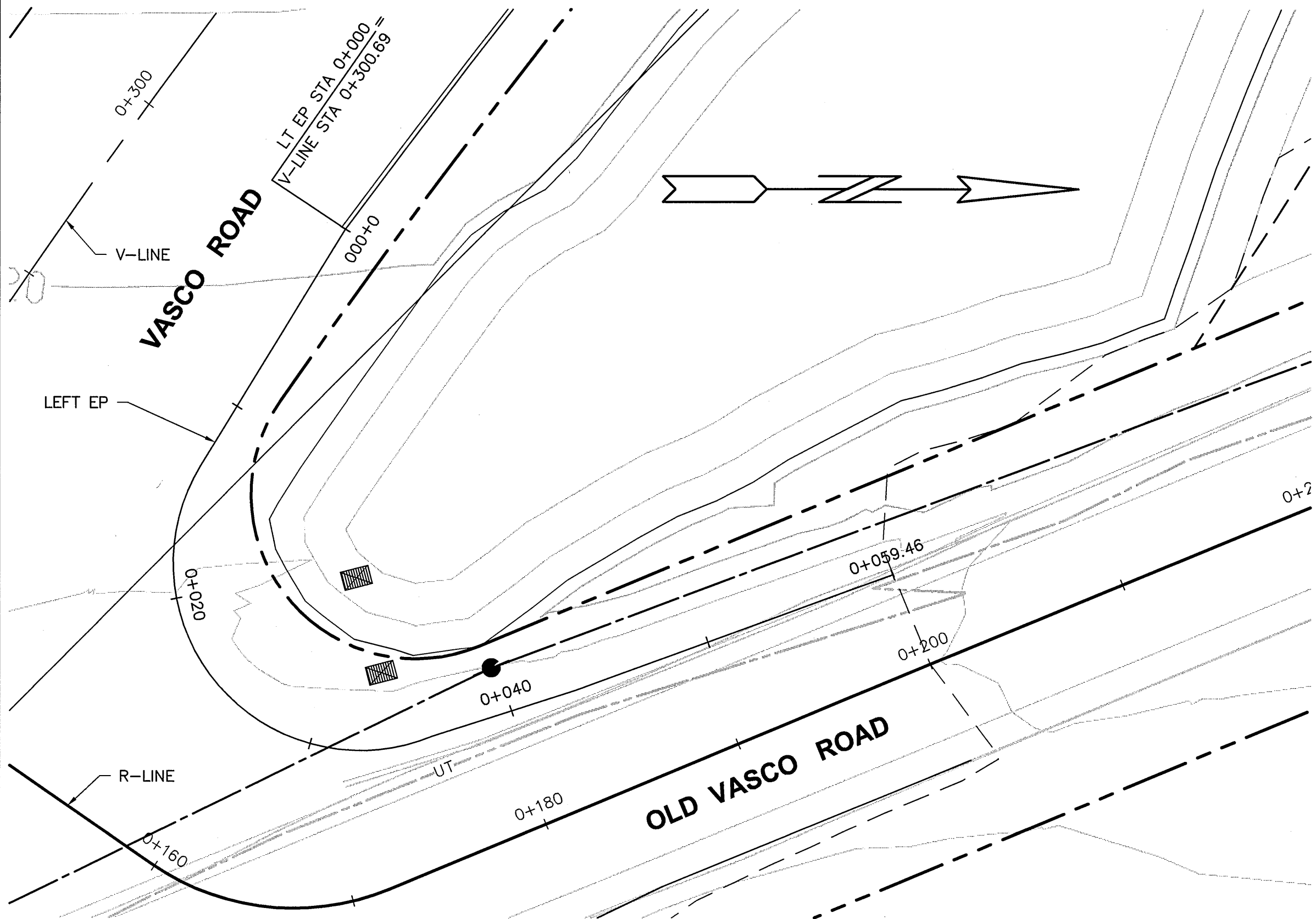
CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

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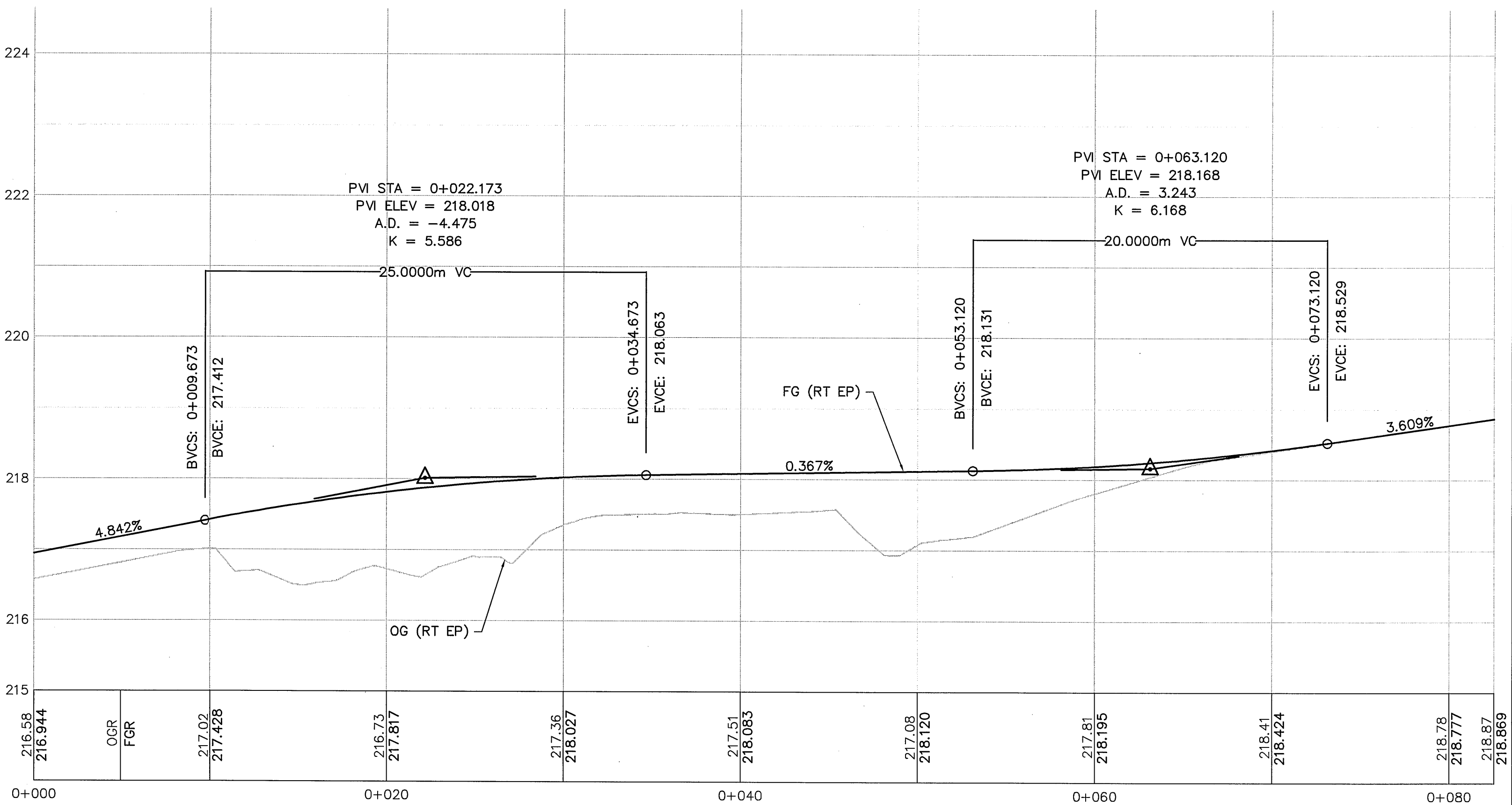
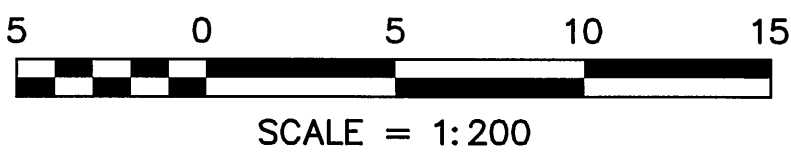
LEFT EP PROFILE

VER 1:50
 HOR 1:200



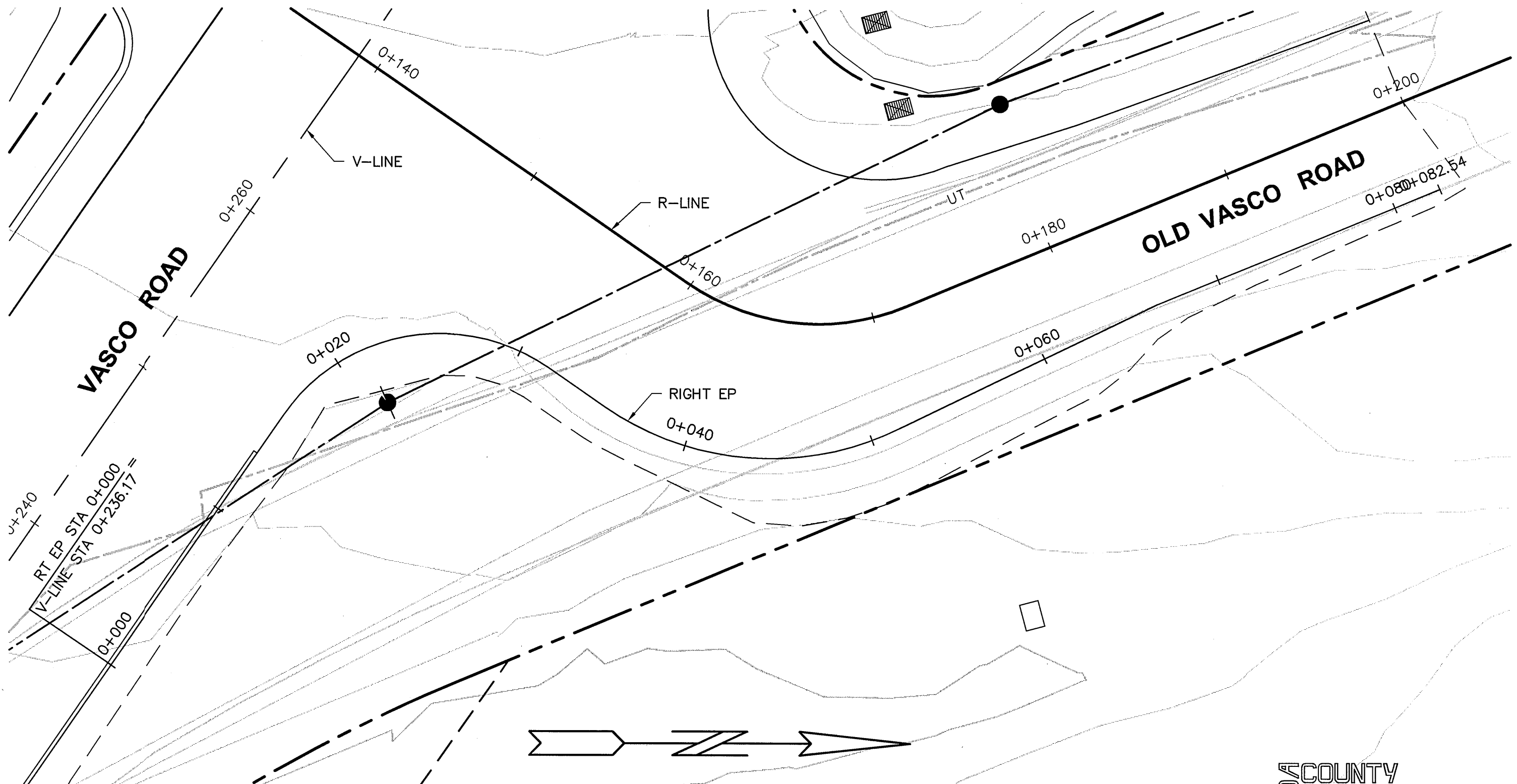
PLAN

1:200



RIGHT EP PROFILE

VER 1:50
 HOR 1:200



PLAN

1:200

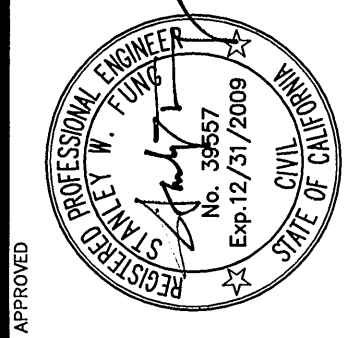


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
 FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
 SOUTH INTERSECTION
 PLAN & PROFILE

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	50 OF 145
FILE NO.	U-357-6

APPROVAL/RECOMMENDED	DATE	SCALE	AS SHOWN
JANES CHAI	JAN 2008	1"=100'	
APPROVAL/RECOMMENDED	DATE	SCALE	AS SHOWN
JANE JANG	JAN 2008	1"=100'	
APPROVAL/RECOMMENDED	DATE	SCALE	AS SHOWN
JANE JANG	JAN 2008	1"=100'	
APPROVAL/RECOMMENDED	DATE	SCALE	AS SHOWN
JANE JANG	JAN 2008	1"=100'	



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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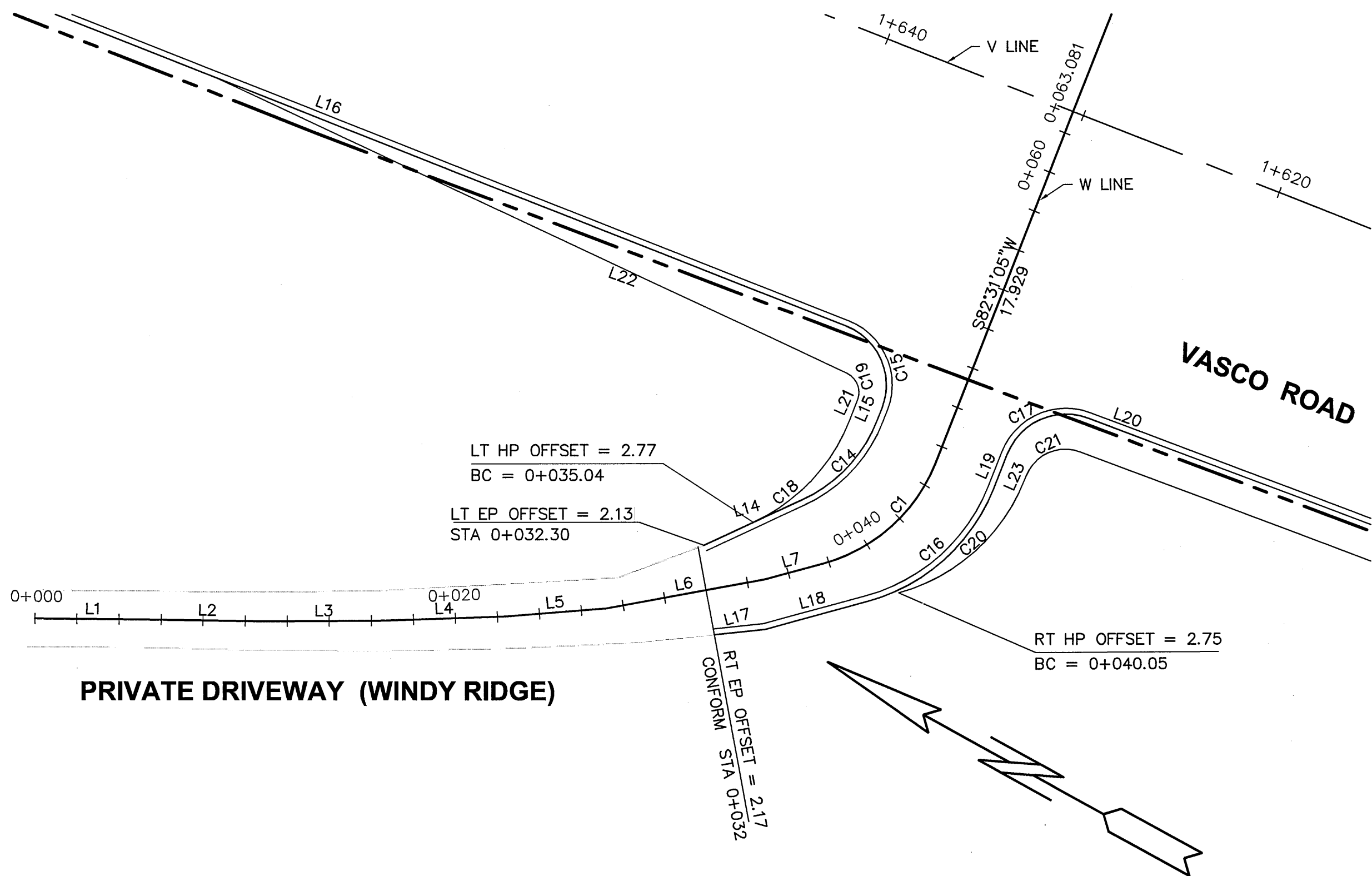
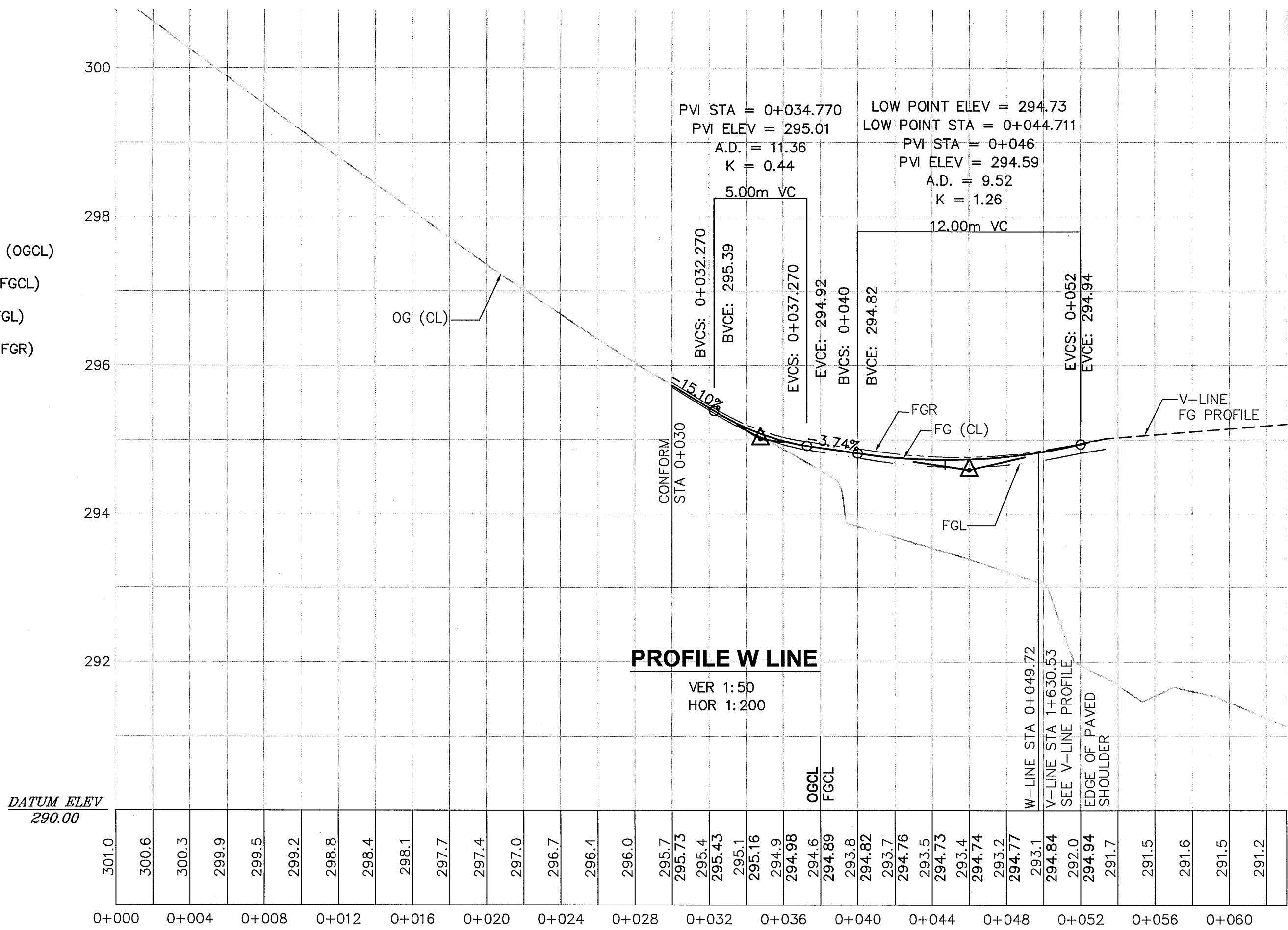
CONSTRUCTION	REVIEWED BY:	DATE:	SURVEY	REVIEWED BY:	DATE:
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	DESCRIPTION
C1	7.416	8.000	53°06'48"	W LINE
C14	5.324	7.000	43°34'52"	(W LINE) LT EP
C15	4.712	3.000	90°00'00"	(W LINE) LT EP
C16	8.343	9.000	53°06'48"	(W LINE) RT EP
C17	4.670	3.000	89°11'19"	(W LINE) RT EP
C18	6.846	9.000	43°34'52"	(W LINE) LT HP
C19	1.508	1.000	86°25'07"	(W LINE) LT HP
C20	8.343	9.000	53°06'48"	(W LINE) RT HP
C21	3.116	2.000	89°15'14"	(W LINE) RT HP

LINE TABLE			
LINE	LENGTH	BEARING	DESCRIPTION
L1	5.458	S28°29'56"E	W LINE
L2	5.490	S28°05'55"E	W LINE
L3	5.625	S29°21'12"E	W LINE
L4	5.825	S30°59'24"E	W LINE
L5	4.780	S33°33'12"E	W LINE
L6	7.697	S39°19'48"E	W LINE
L7	2.862	S44°22'07"E	W LINE
L14	5.150	S53°54'03"E	(W LINE) LT EP
L15	0.624	N82°31'05"E	(W LINE) LT EP
L16	53.412	N07°28'55"W	(W LINE) LT EP
L17	2.448	N35°02'25"W	(W LINE) RT EP
L18	5.047	N44°22'07"W	(W LINE) RT EP
L19	1.763	S82°31'05"W	(W LINE) RT EP
L20	3.188	S08°17'36"E	(V LINE) LT EP
L21	1.034	S82°31'05"W	(W LINE) LT HP
L22	33.209	N03°54'02"W	(V LINE) LT HP
L23	0.229	N82°31'05"W	(W LINE) RT HP

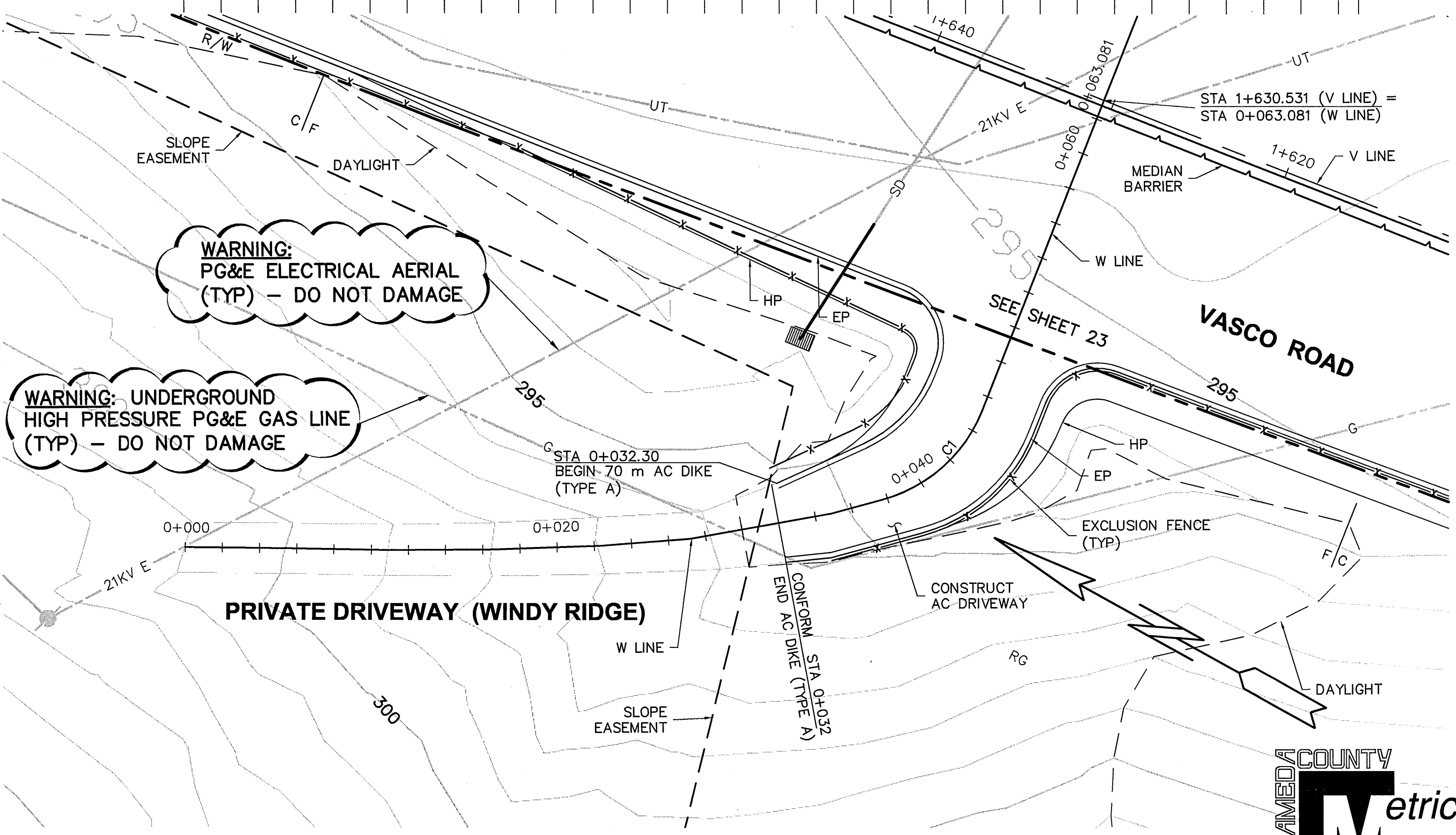
PROFILE LEGEND

- ORIGINAL GROUND CENTERLINE PROFILE/ELEVATION (OGCL)
- FINISHED GRADE CENTERLINE PROFILE/ELEVATION (FGCL)
- FINISHED GRADE LEFT EDGE PROFILE/ELEVATION (FGL)
- FINISHED GRADE RIGHT EDGE PROFILE/ELEVATION (FGR)



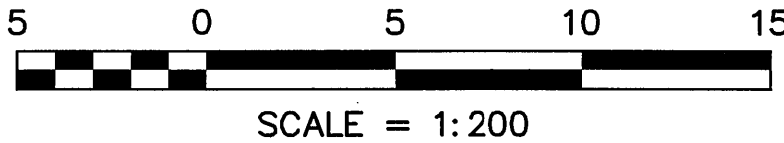
PRIVATE DRIVEWAY (WINDY RIDGE) LAYOUT PLAN

1:200



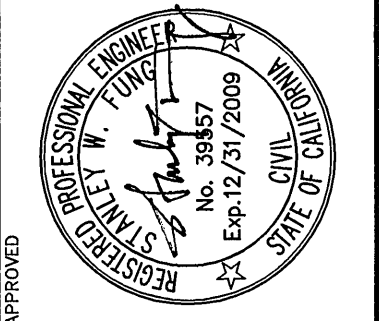
PLAN

1:200



SCALE = 1:200

REVISIONS



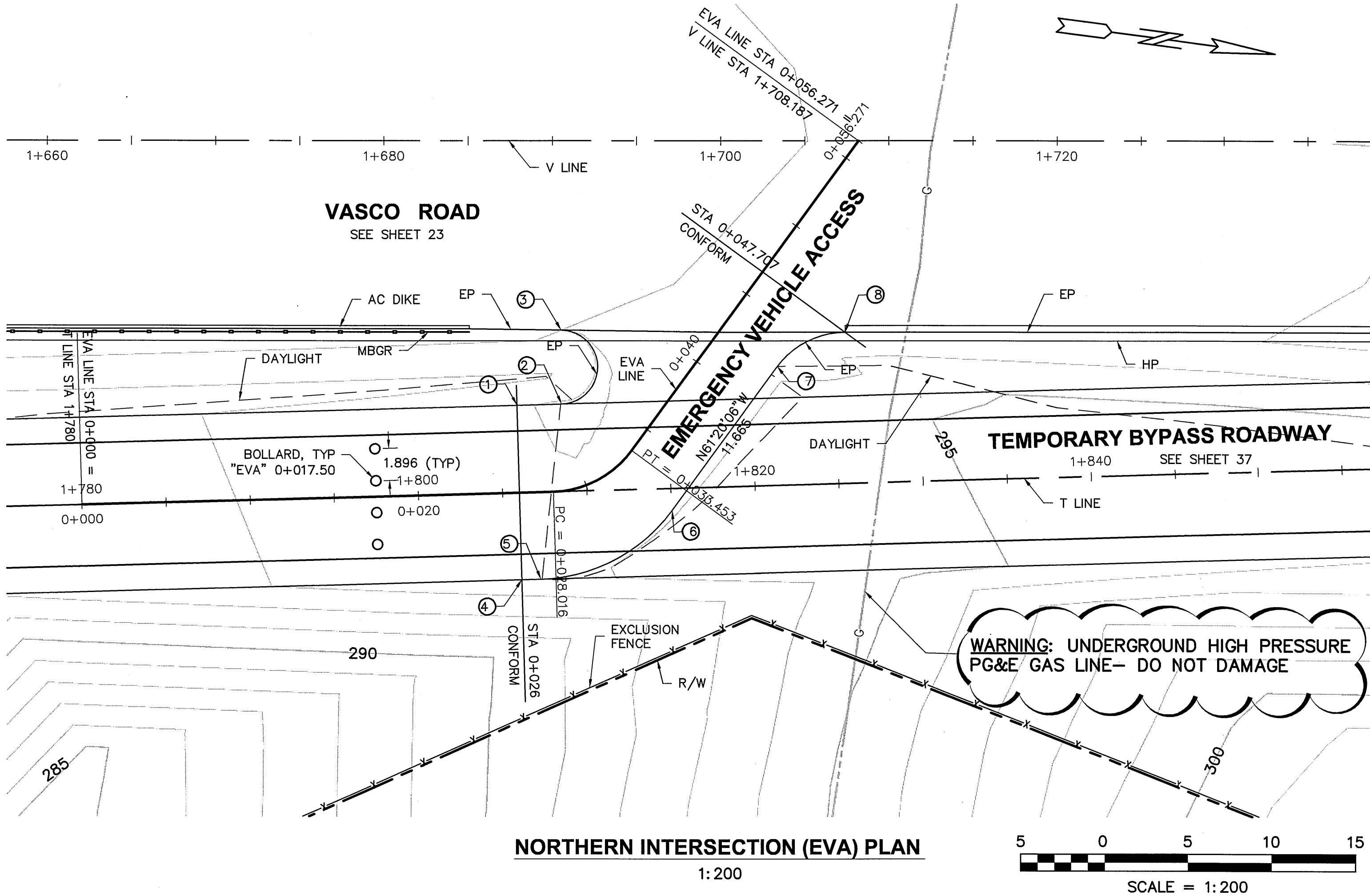
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
PRIVATE DRIVEWAY (WINDY RIDGE)
PLAN & PROFILE

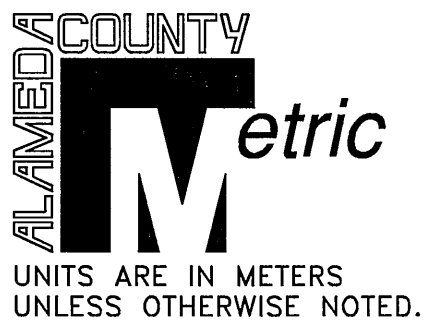
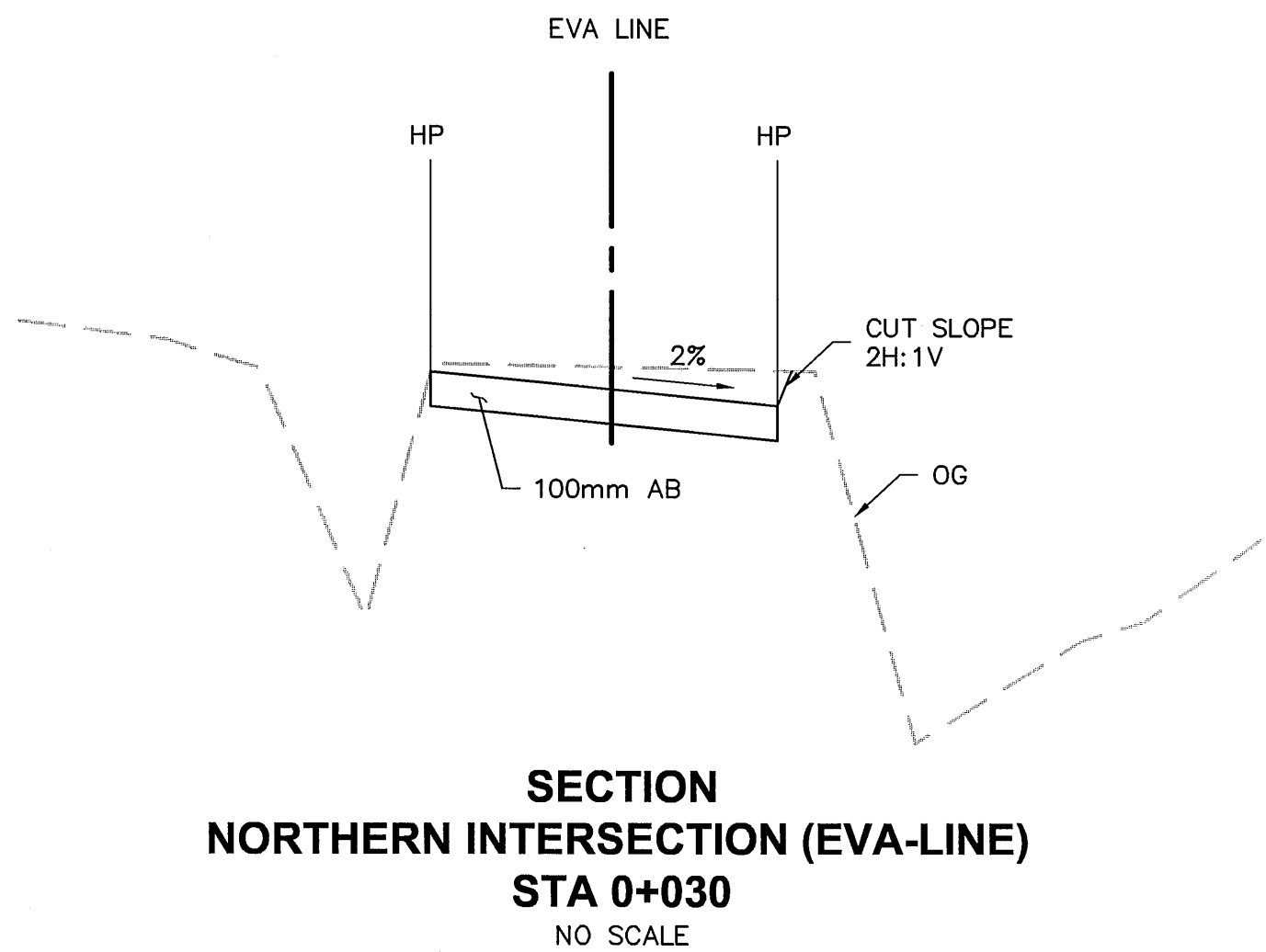
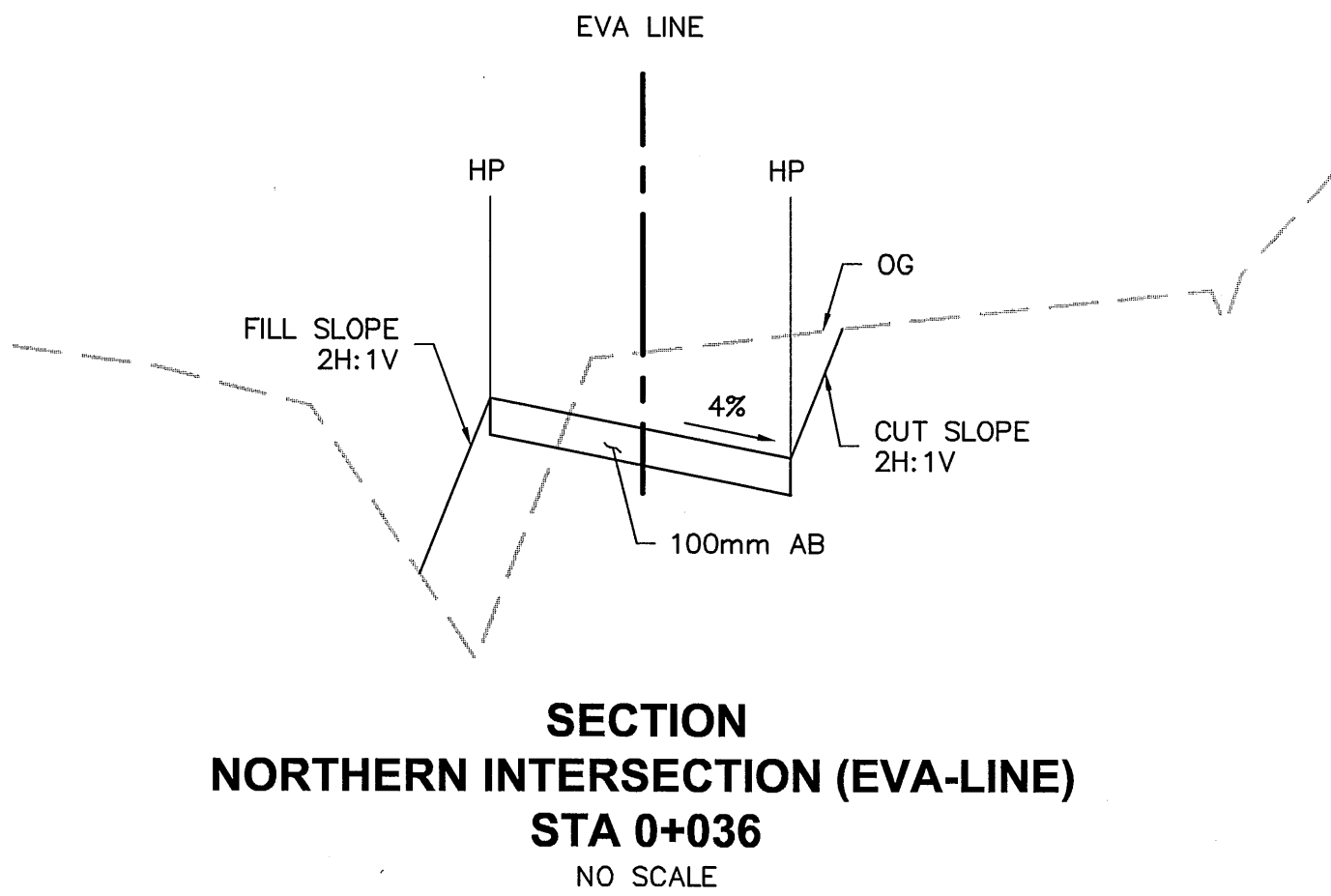
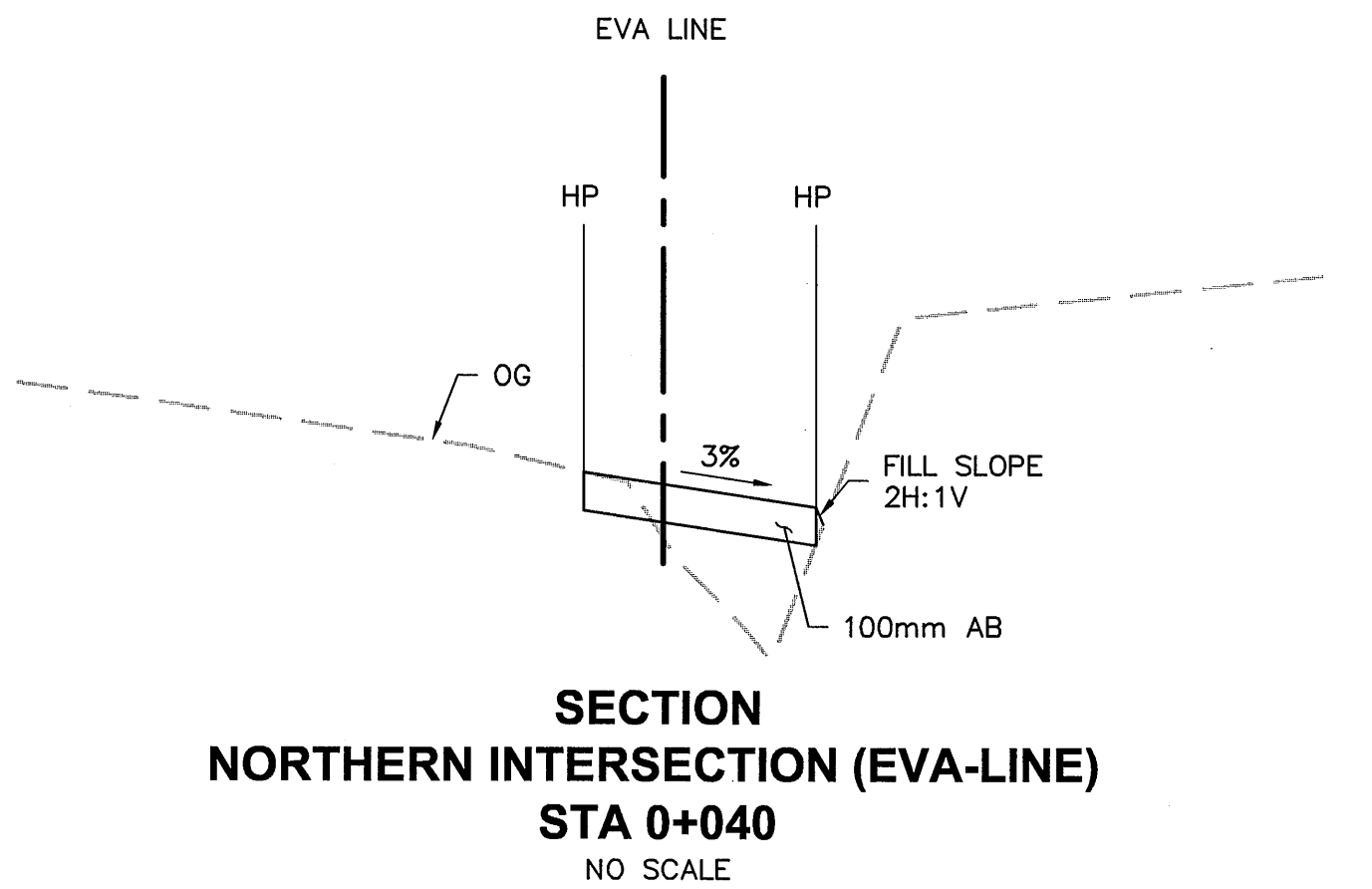
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	51 OF 145
FILE NO.	U-357-6

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY		TRAFFIC	
	ENVIRONMENTAL			

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EMERGENCY VEHICLE ACCESS				CURVE DATA			REMARKS
PT. NO.	EVA LINE STATION	OFFSET	ELEVATION	LENGTH	RADIUS	DELTA	
①	0+026	5.184 (LT)	294.071				CONFORM TO EX
②	0+032.057	4.963 (LT)	294.071				BC
②-③				6.850	2.210	177°35'54"	
③	0+036.769	7.623 (LT)	294.001				EC, CONFORM TO EX
④	0+026	5.184 (RT)	293.741				CONFORM TO EX
⑤	0+027.125	5.184 (RT)	293.791				BC
⑤-⑥				9.115	10.000	52°13'23"	
⑥	0+032.591	4.140 (RT)	293.811				EC
⑦	0+042.586	4.035 (RT)	293.676				BC
⑦-⑧				4.700	5.000	53°51'11"	
⑧	0+046.323	6.086 (RT)	293.638				EC, CONFORM TO EX



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPV'D

APPROVED

REGISTERED PROFESSIONAL ENGINEER

ALBERT LO

DATE 12/31/2009

COUNTY OF ALAMEDA

PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

NORTHERN INTERSECTION (EMERGENCY VEHICLE ACCESS)

PLAN & TYPICAL SECTIONS

WORK ORDER NO.

R23265

SPECIFICATION NO.

1903

SHEET NO.

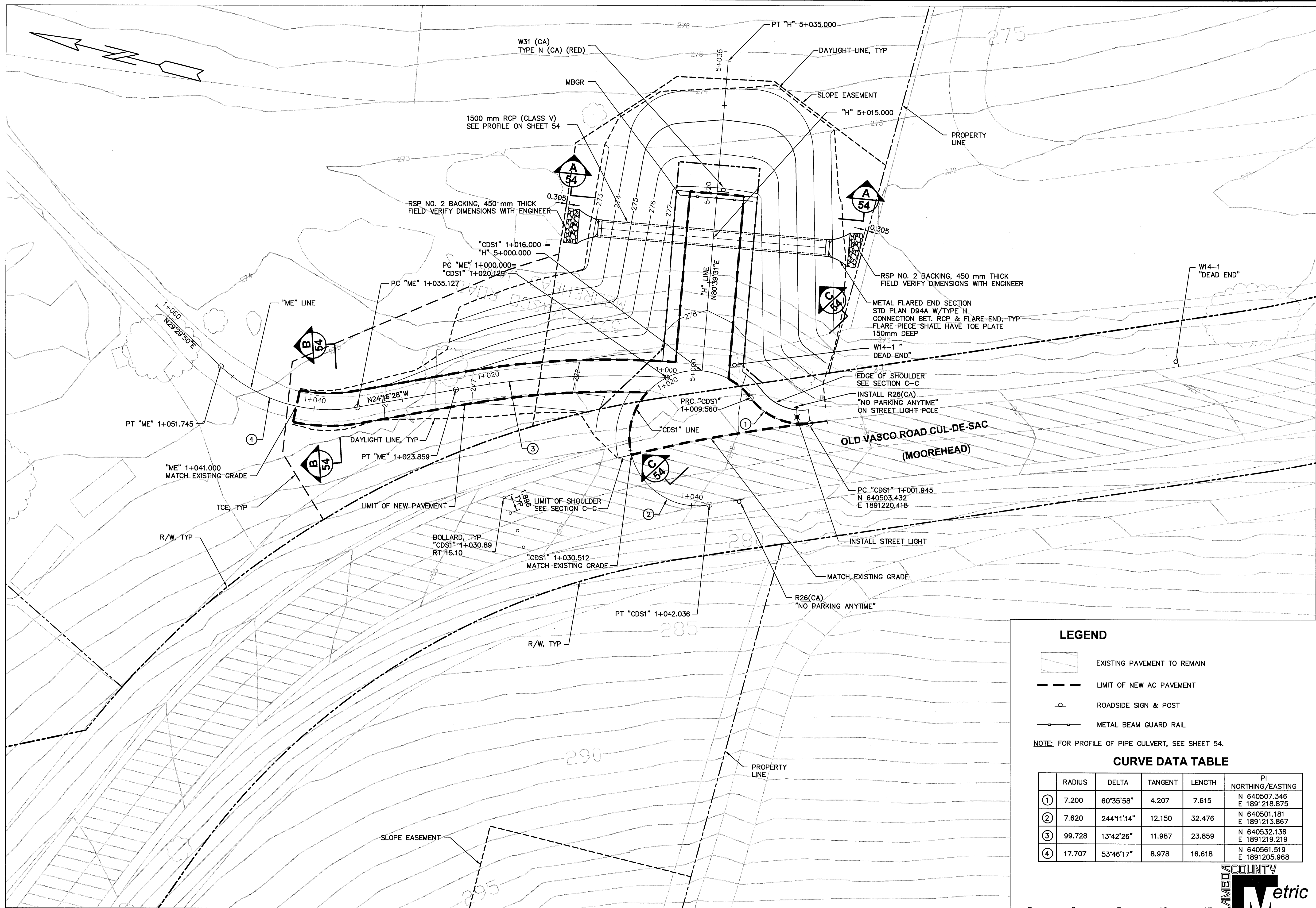
52 OF 145

FILE NO.

U-357-6

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	SURVEY	
REAL ESTATE	TRAFFIC	
	ENVIRONMENTAL	

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PLAN
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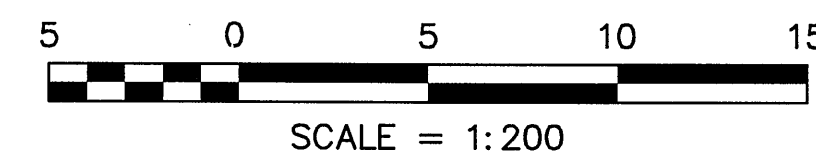
LEGEND

- EXISTING PAVEMENT TO REMAIN
- LIMIT OF NEW AC PAVEMENT
- ROADSIDE SIGN & POST
- METAL BEAM GUARD RAIL

NOTE: FOR PROFILE OF PIPE CULVERT, SEE SHEET 54.

CURVE DATA TABLE

	RADIUS	DELTA	TANGENT	LENGTH	PI NORTHING/EASTING
①	7.200	60°35'58"	4.207	7.615	N 640507.346 E 1891218.875
②	7.620	244°11'14"	12.150	32.476	N 640501.181 E 1891213.867
③	99.728	13°42'26"	11.987	23.859	N 640532.136 E 1891219.219
④	17.707	53°46'17"	8.978	16.618	N 640561.519 E 1891205.968

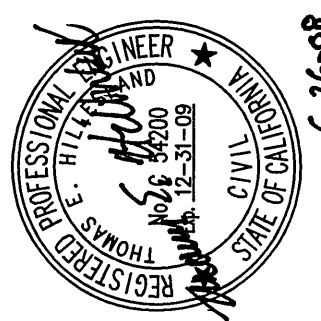


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
OLD VASCO ROAD CUL-DE-SAC
(MOOREHEAD)

DATE: JAN 2008
SCALE: AS SHOWN
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 53 OF 145
FILE NO.: U-357-6



1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(910) 645-1288



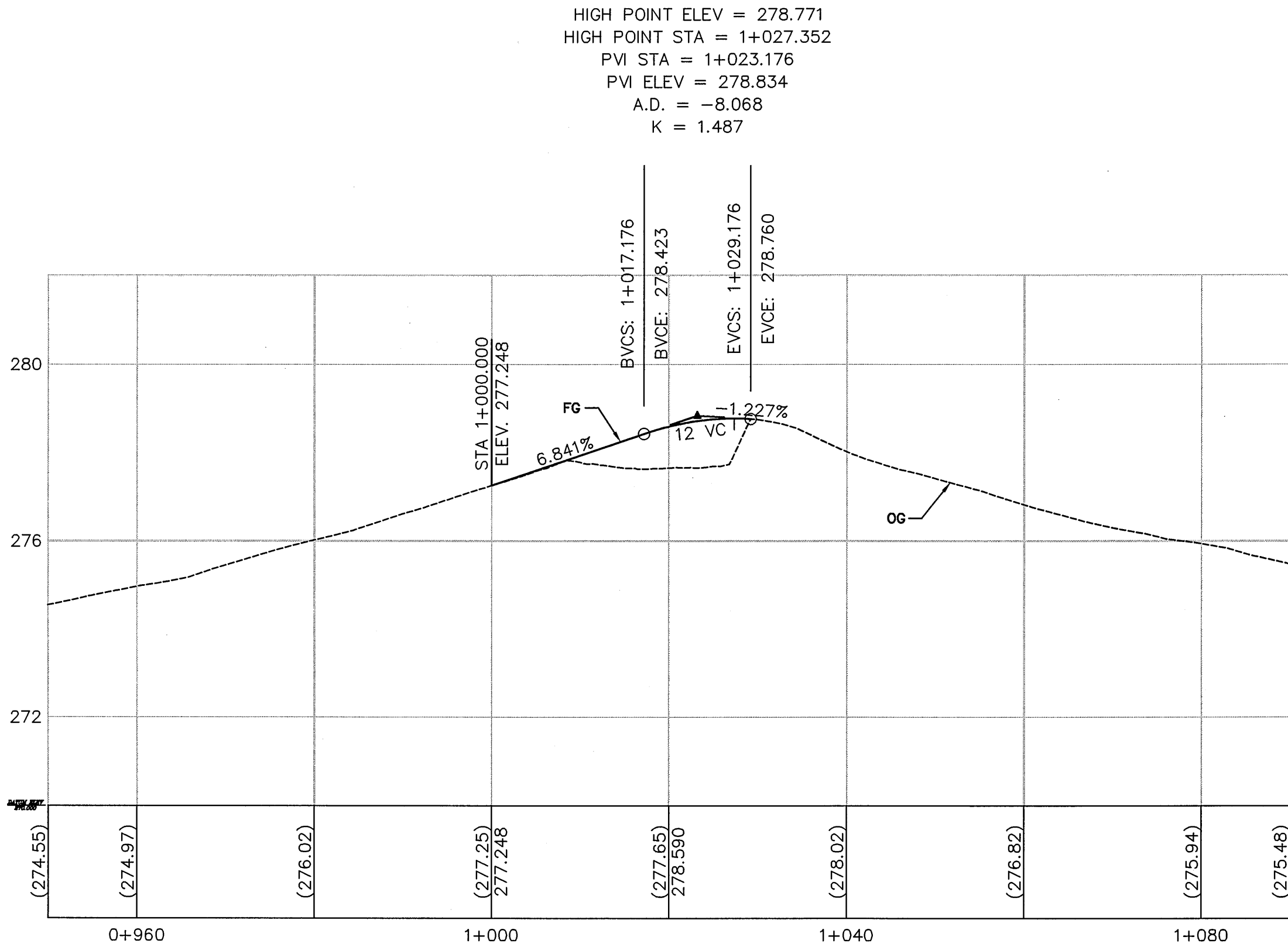
DRAWN: A. BROWNOVA
CHECKED: T. HILLESAND
DESIGNED: B. ZERNI

REVISIONS

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REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION		SURVEY	
MAINTENANCE		TRAFFIC	
REAL ESTATE		ENVIRONMENTAL	

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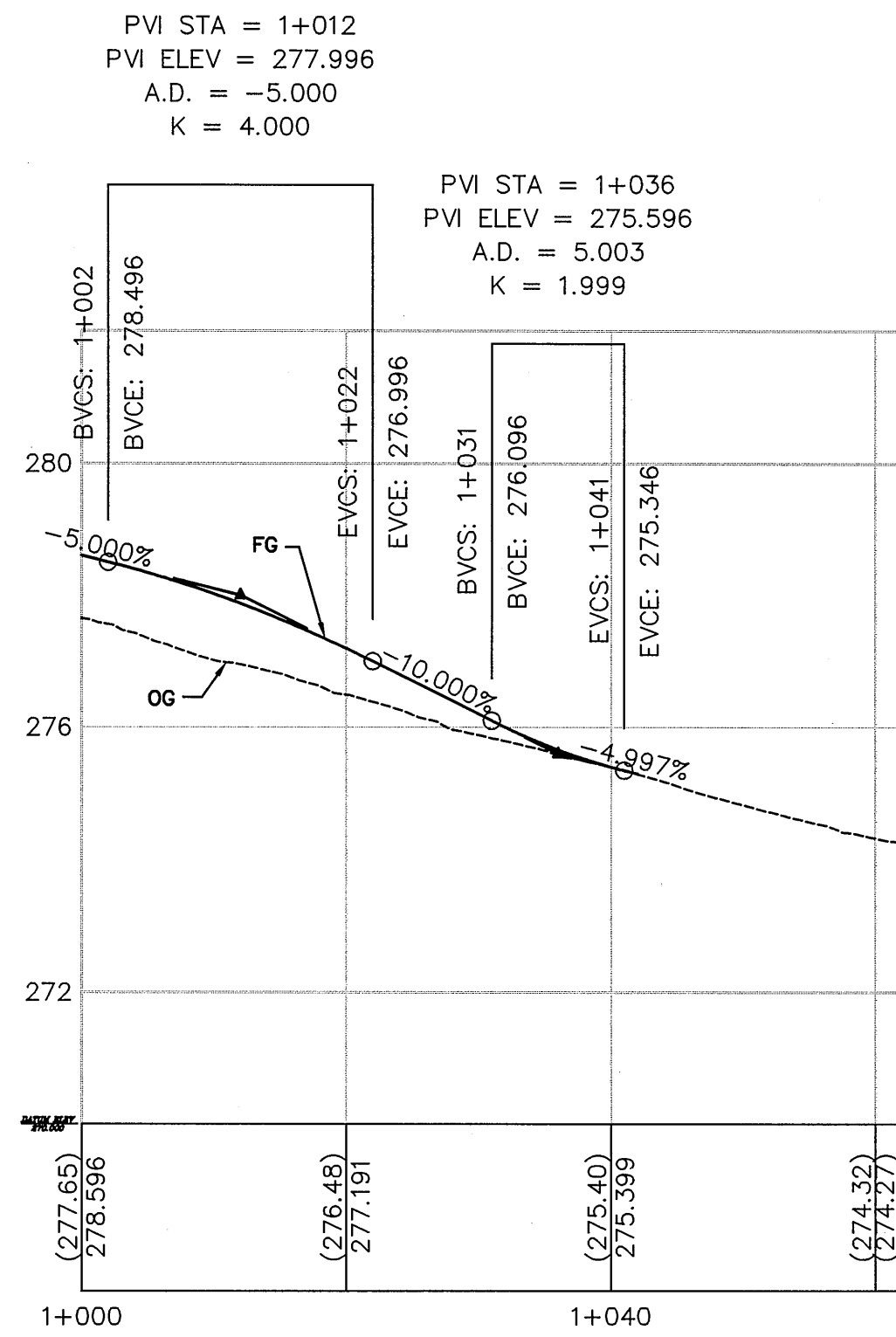


"CDS1" PROFILE

HOR 1:500
VER 1:100

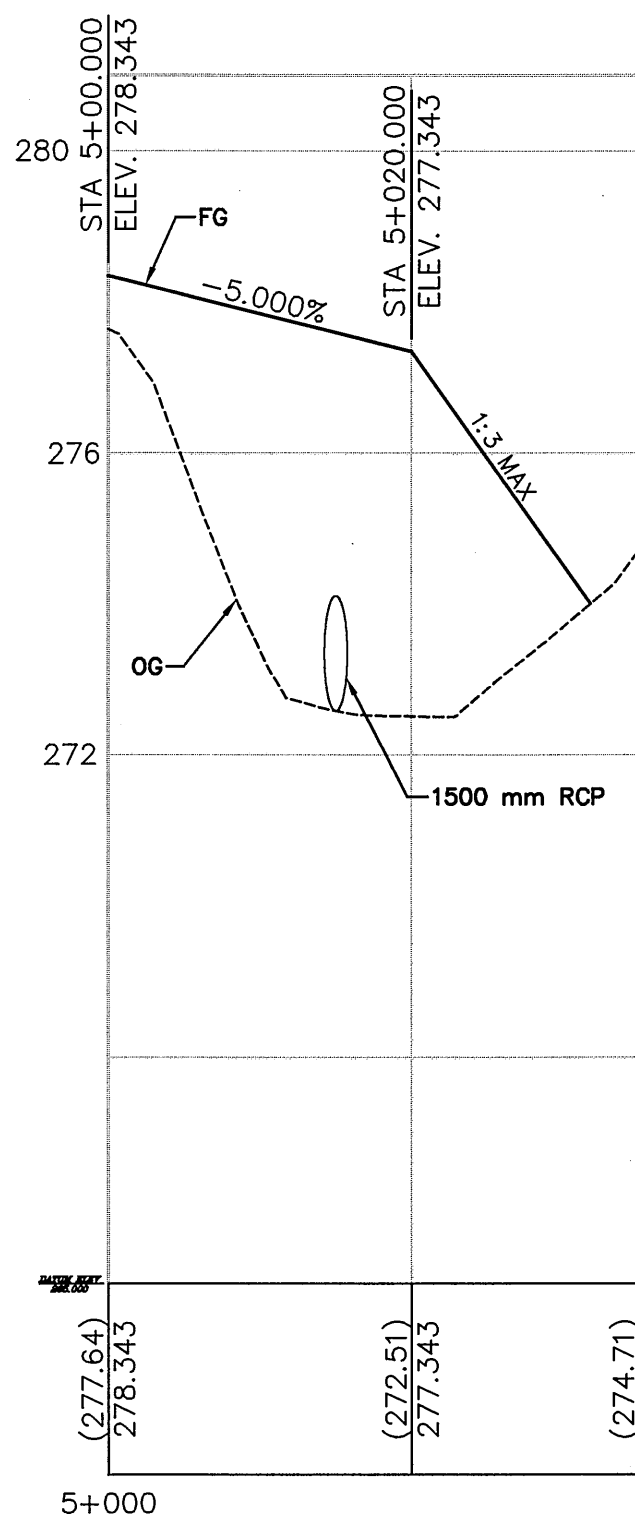
LEGEND

(XXX.XXX) EXIST ELEV
XXX.XXX FG ELEV



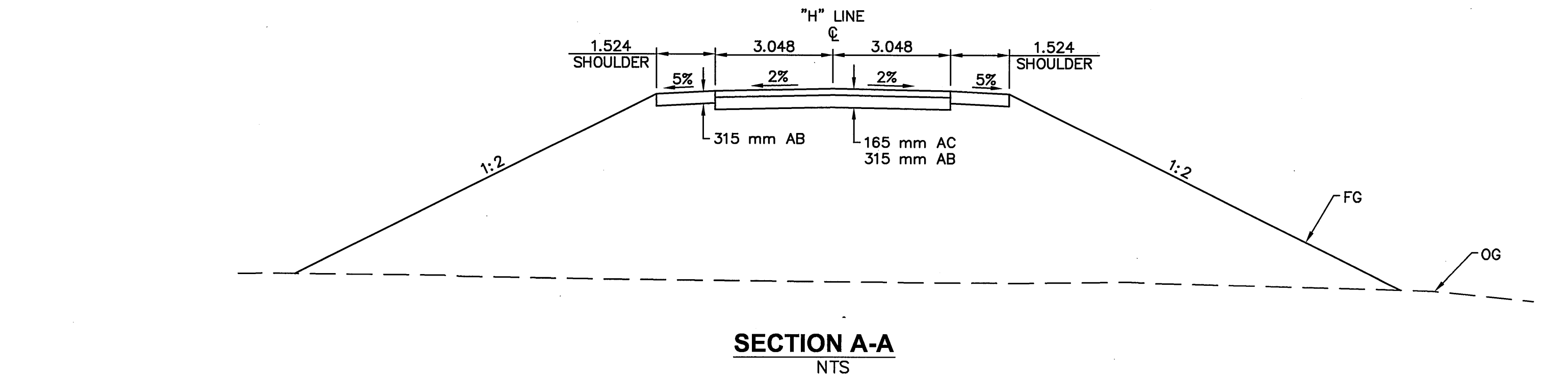
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HOR 1:500
VER 1:100

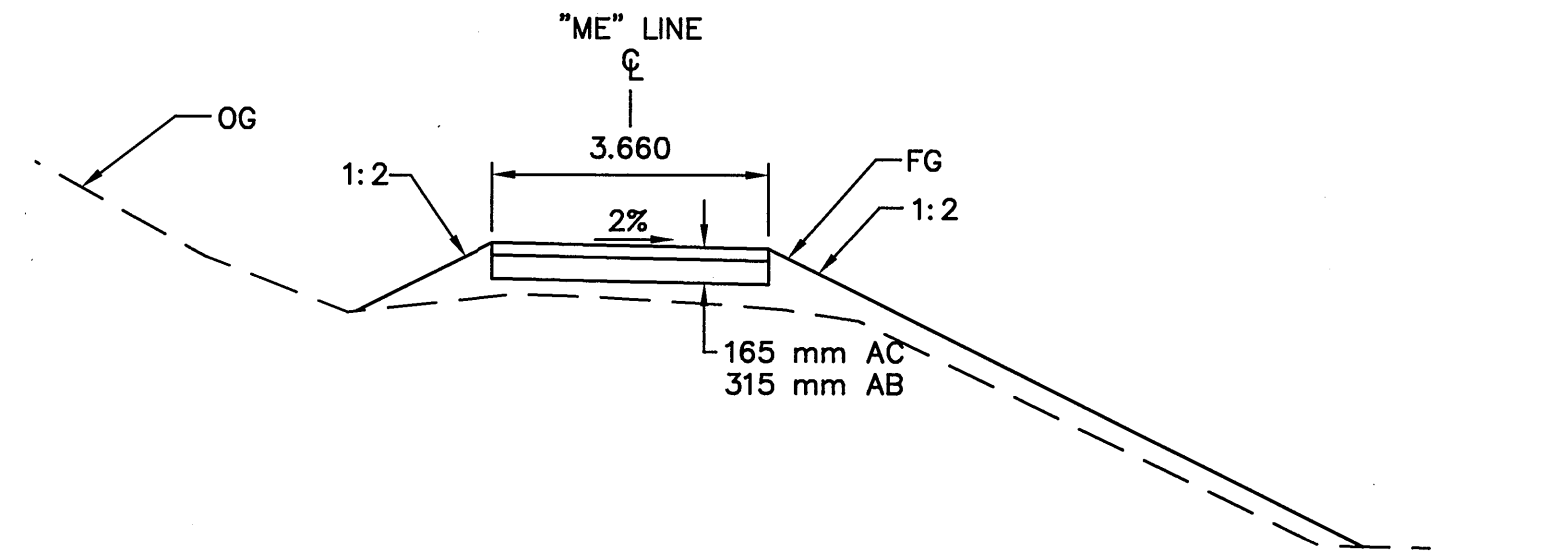


"H" PROFILE

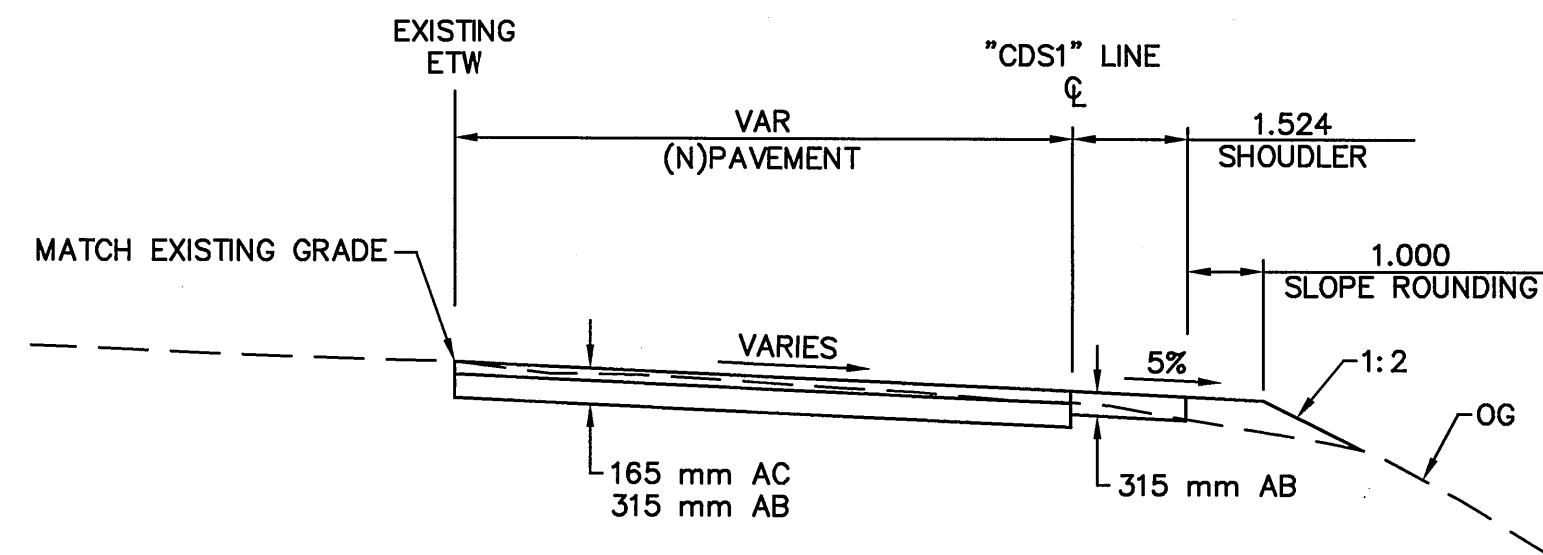
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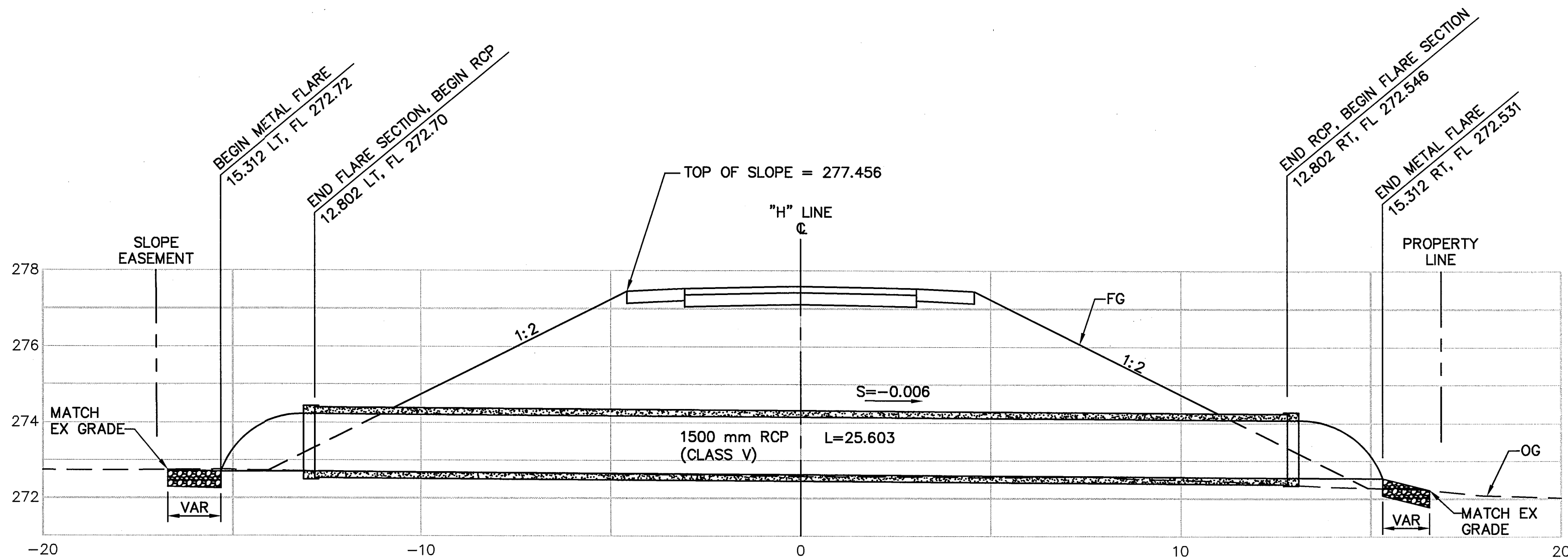
SECTION A-A
NTS



SECTION B-B
NTS

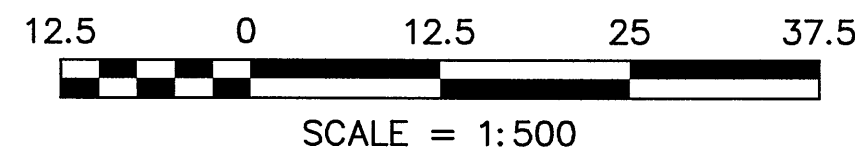


SECTION C-C
NTS



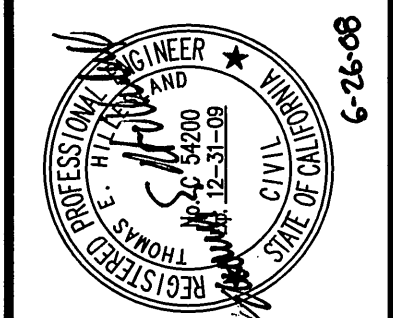
PIPE CULVERT PROFILE

1:100

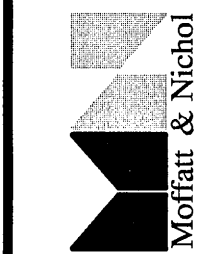


REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238
DRAWN: N. KOSYASHIN
CHECKED: T. WELLS
DESIGNED: B. ZENI
APPROVED: S. HO



COUNTY OF ALAMEDA PUBLIC WORKS AGENCY

REVIEWED: JAMES G. CARRERA
BOND INFO: JAMES G. CARRERA
REVIEWED: JAMES G. CARRERA
REVIEWED: JAMES G. CARRERA
APPROVAL RECOMMENDED: STANLEY W. FINE

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
OLD VASCO ROAD CUL-DE-SAC
(MOOREHEAD)

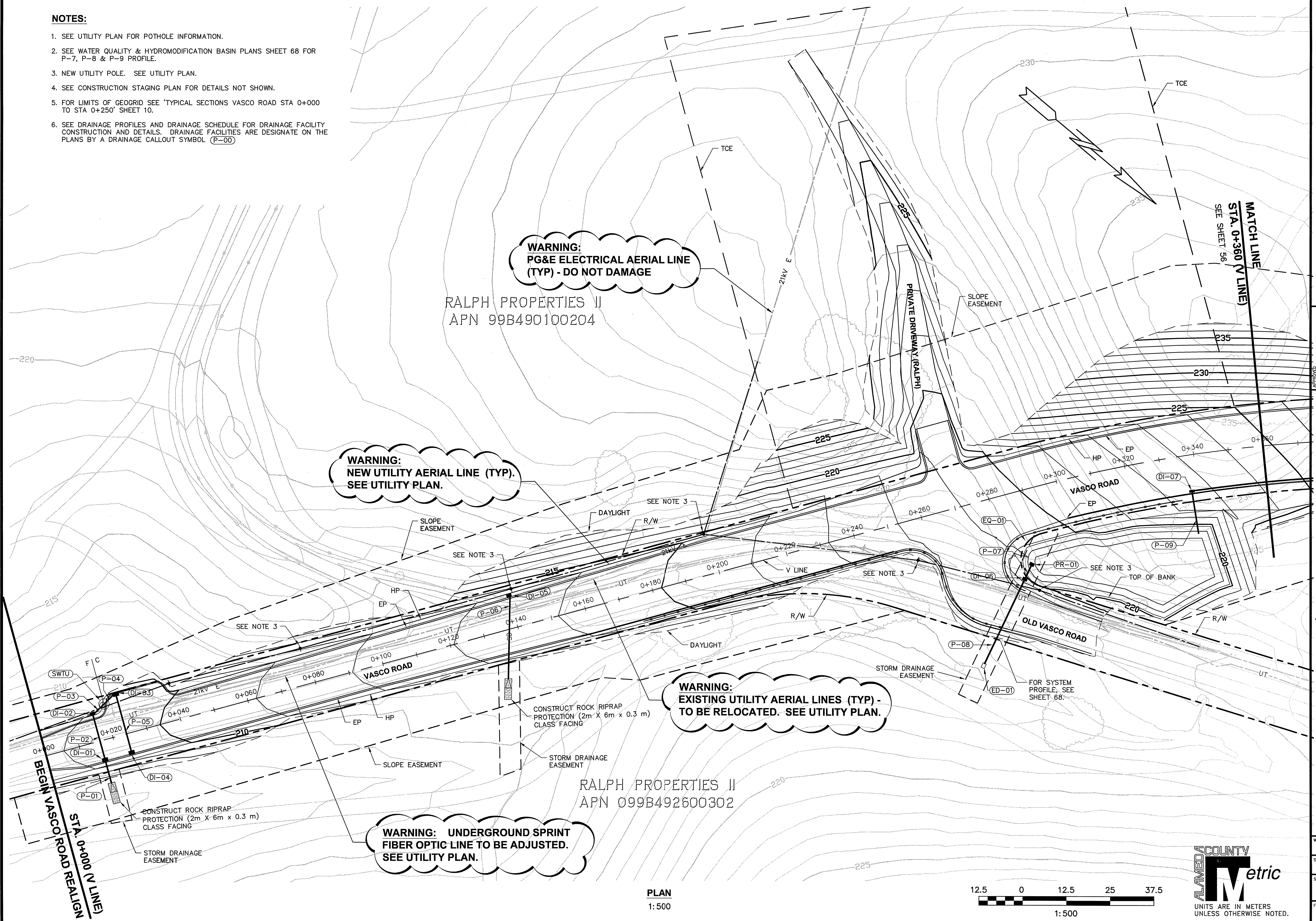
DATE: JAN 2008
SCALE: AS SHOWN
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 54 OF 145
FILE NO.: U-357-6

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

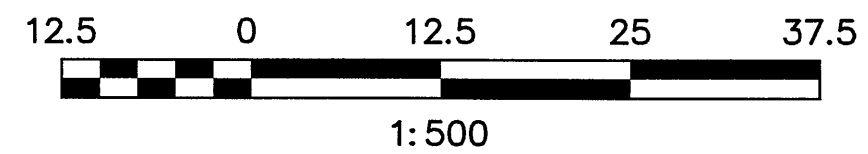
	REVIEWED BY:	DATE:		REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY		
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

NOTES:

1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
2. SEE WATER QUALITY & HYDROMODIFICATION BASIN PLANS SHEET 68 FOR P-7, P-8 & P-9 PROFILE.
3. NEW UTILITY POLE. SEE UTILITY PLAN.
4. SEE CONSTRUCTION STAGING PLAN FOR DETAILS NOT SHOWN.
5. FOR LIMITS OF GEOGRID SEE "TYPICAL SECTIONS VASCO ROAD STA 0+000 TO STA 0+250" SHEET 10.
6. SEE DRAINAGE PROFILES AND DRAINAGE SCHEDULE FOR DRAINAGE FACILITY CONSTRUCTION AND DETAILS. DRAINAGE FACILITIES ARE DESIGNATE ON THE PLANS BY A DRAINAGE CALLOUT SYMBOL (P-00)



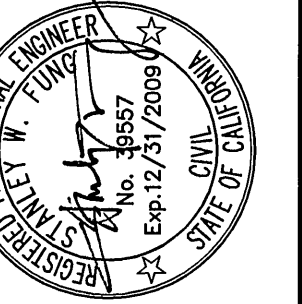
PLAN
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ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

REVISIONS

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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

DRAINAGE AND GRADING PLAN

WORK ORDER NO.

R23265

SPECIFICATION NO.

1903

SHEET NO.

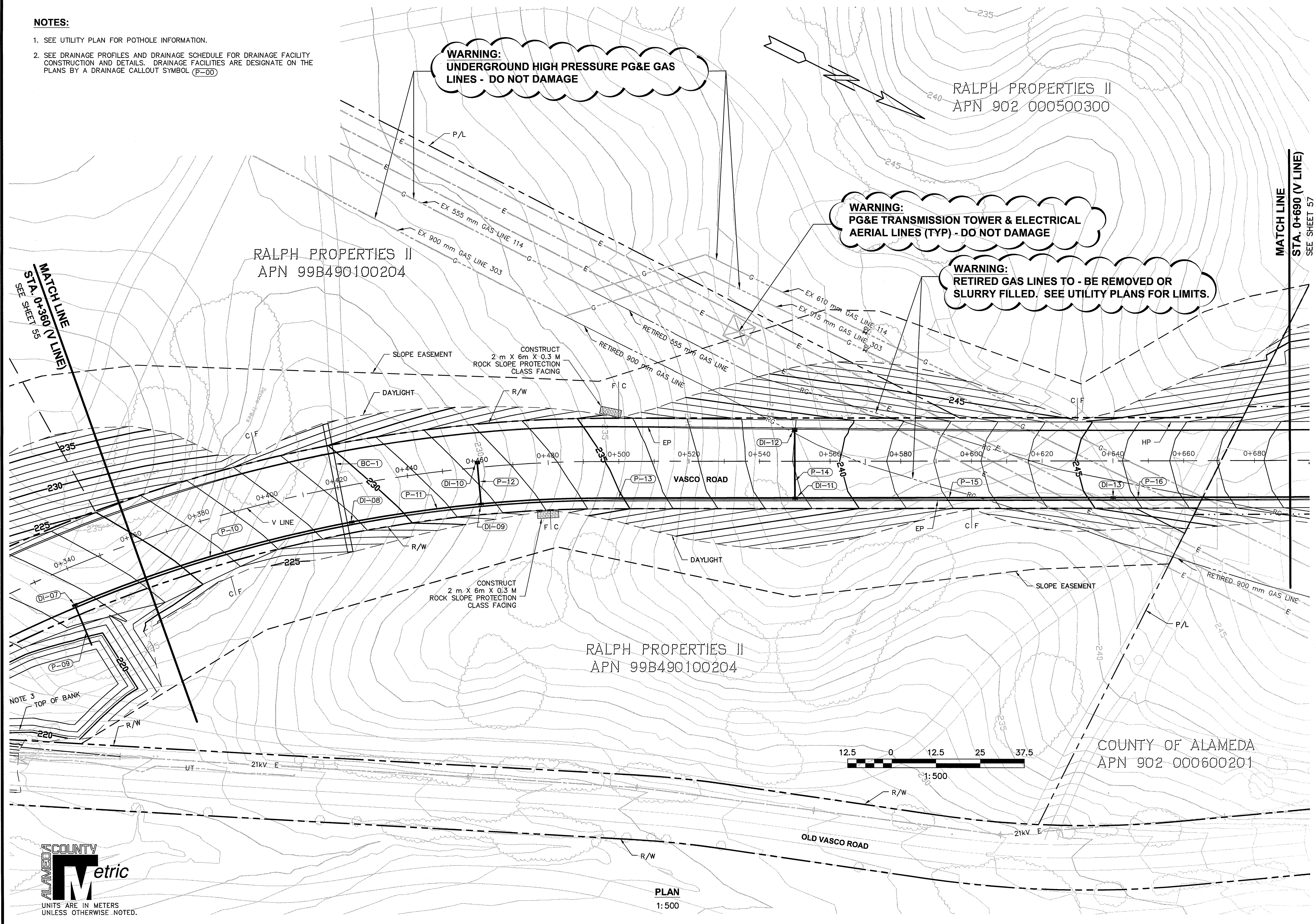
55 OF 145

FILE NO.

U-357-6

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1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
2. SEE DRAINAGE PROFILES AND DRAINAGE SCHEDULE FOR DRAINAGE FACILITY CONSTRUCTION AND DETAILS. DRAINAGE FACILITIES ARE DESIGNATE ON THE PLANS BY A DRAINAGE CALLOUT SYMBOL (P-00)



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
WORK ORDER NO. R23265	DRAWN BY <i>James G. Bautista</i> JAMES G. BAUTISTA	APPROVAL RECOMMENDED <i>James G. Bautista</i> JAMES G. BAUTISTA	REGISTERED PROFESSIONAL ENGINEER STATE OF CALIF. No. 39457	NO.	DATE
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3	DESIGNED BY <i>James G. Bautista</i> J. JOHANN, B. S., M. MARAVILLA, B. DANFORTH ASSOCIATE ENGINEER	APPROVAL RECOMMENDED <i>James G. Bautista</i> JAMES G. BAUTISTA	REGISTERED PROFESSIONAL ENGINEER STATE OF CALIF. No. 39457	NO.	DATE
DRAINAGE AND GRADING PLAN	CHECKED <i>James G. Bautista</i> MOSES TSANG	DATE JAN 2008	SCALE 1: 500	DESCRIPTION	BY
SHEET NO. 56 OF 145		APPROVED			
FILE NO. U-357-6		APPROVED			

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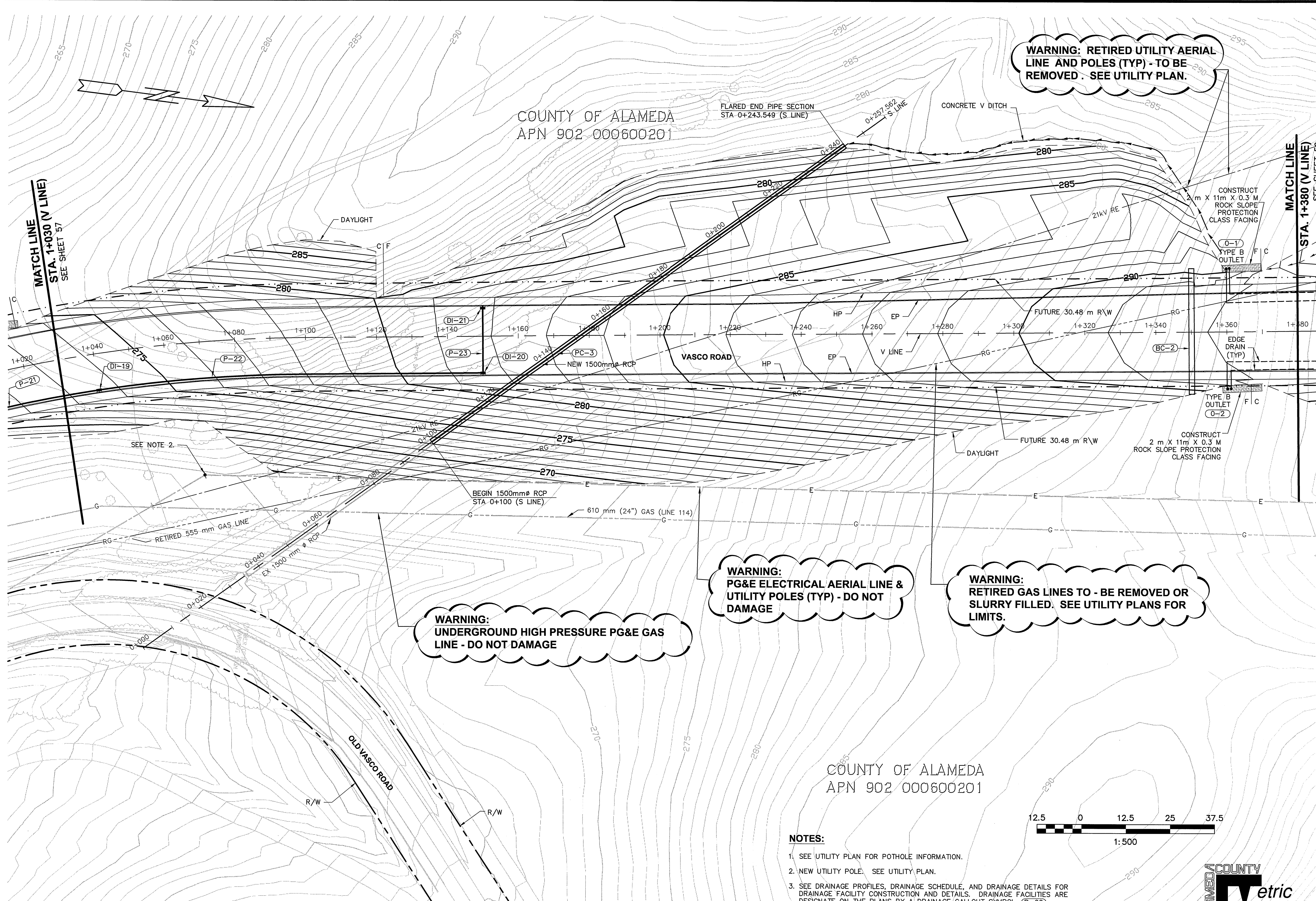
1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
2. FOR SEGMENTAL RETAINING WALLS AND PERMANENT SHORING CONSTRUCTION AND DETAILS SEE SHEETS 140 & 141.
3. SEE CONTRUSTION STAGING PLAN FOR DETAILS NOT SHOWN.
4. SEE DRAINAGE PROFILES AND DRAINAGE SCHEDULE FOR DRAINAGE FACILITY CONSTRUCTION AND DETAILS. DRAINAGE FACILITIES ARE DESIGNATE ON THE PLANS BY A DRAINAGE CALLOUT SYMBOL (P-00)

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 DRAINAGE AND GRADING PLAN		DRAWN JAMES M. ALEX. BANISTER	APPROVAL - RECOMMENDED JAMES M. ALEX. BANISTER	NO.	DATE
		DESIGNED L. JOHANN, B.S. & J. MARAVILLA, B.S. DANFORTH	APPROVAL - EXAMINED L. JOHANN, B.S. & J. MARAVILLA, B.S. DANFORTH	NO.	DATE
		CHECKED MOSES TSANG	DATE JAN 2008	NO.	DATE
WORK ORDER NO. R23265		SCALE 1:500			
SHEET NO. 57 OF 145					
FILE NO. U-357-6					

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	REVIEWED BY:	DATE:
REAL ESTATE	REVIEWED BY:	DATE:
	SURVEY	
	TRAFFIC	
	ENVIRONMENTAL	

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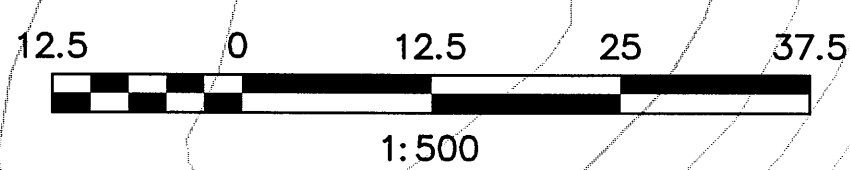
WARNING:
UNDERGROUND HIGH PRESSURE PG&E GAS
LINE - DO NOT DAMAGE

WARNING:
PG&E ELECTRICAL AERIAL LINE &
UTILITY POLES (TYP) - DO NOT
DAMAGE

WARNING:
RETIRED GAS LINES TO - BE REMOVED OR
SLURRY FILLED. SEE UTILITY PLANS FOR
LIMITS.

WARNING: RETIRED UTILITY AERIAL
LINE AND POLES (TYP) - TO BE
REMOVED. SEE UTILITY PLAN.

- NOTES:**
- 1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
 - 2. NEW UTILITY POLE. SEE UTILITY PLAN.
 - 3. SEE DRAINAGE PROFILES, DRAINAGE SCHEDULE, AND DRAINAGE DETAILS FOR DRAINAGE FACILITY CONSTRUCTION AND DETAILS. DRAINAGE FACILITIES ARE DESIGNATE ON THE PLANS BY A DRAINAGE CALLOUT SYMBOL (P-00)



PLAN
1:500

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

COUNTY OF ALAMEDA		PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3			
DRAINAGE AND GRADING PLAN			
WORK ORDER NO.	R23265	DATE	JAN 2008
SPECIFICATION NO.	1903	SCALE	1:500
SHEET NO.	58	OF	145
FILE NO.	U-357-6	DATE	APR 2008
APPROVED		APPROVED	
DESIGNED		DESIGNED	
CHECKED		CHECKED	
DRAWN		DRAWN	
PROJECT MANAGER		PROJECT MANAGER	
CITY ENGINEER		CITY ENGINEER	
REGISTERED PROFESSIONAL ENGINEER		REGISTERED PROFESSIONAL ENGINEER	
JAMES CHEN		JAMES CHEN	
EXPIRATION DATE		EXPIRATION DATE	
NOV 2009		NOV 2009	
NO. 39557		NO. 39557	
DATE OF BIRTH		DATE OF BIRTH	
JAN 1974		JAN 1974	
PLACE OF BIRTH		PLACE OF BIRTH	
SAN FRANCISCO, CA		SAN FRANCISCO, CA	
EDUCATION		EDUCATION	
B.S. CIVIL ENGINEERING		B.S. CIVIL ENGINEERING	
UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA	
REVISIONS		REVISIONS	
NO.	DESCRIPTION	BY	DATE
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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

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NOTES:

1. THIS PLAN ASSUMES THAT CONSTRUCTION OF THE TEMPORARY BYPASS ROADWAY AND THE ACCESS ROAD HAVE BEEN COMPLETED. SEE SHEETS 41 AND 42 FOR DRAINAGE AND GRADING PLANS.
2. SEE SECTION 'ORDER OF WORK' IN SPECIAL PROVISIONS AND STAGING PLAN FOR DETAILS NOT SHOWN.
3. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
4. NEW UTILITY POLE. SEE UTILITY PLAN.
5. SEE DRAINAGE PROFILES, DRAINAGE SCHEDULE, AND DRAINAGE DETAIL FOR DRAINAGE FACILITY CONSTRUCTION AND DETAILS. DRAINAGE FACILITIES ARE DESIGNATE ON THE PLANS BY A DRAINAGE CALLOUT SYMBOL (P-00)
6. FOR SLOPE BENCH AND CONCRETE "V" DITCH CONSTRUCTION SEE 'SLOPE BENCH DETAIL' AND DETAIL 3 ON SHEET 12.

WARNING: RETIRED UTILITY AERIAL LINE AND POLES (TYP) - TO BE REMOVED. SEE UTILITY PLAN.

WARNING: RETIRED UNDERGROUND HIGH PRESSURE PG&E GAS LINE - TO BE REMOVED

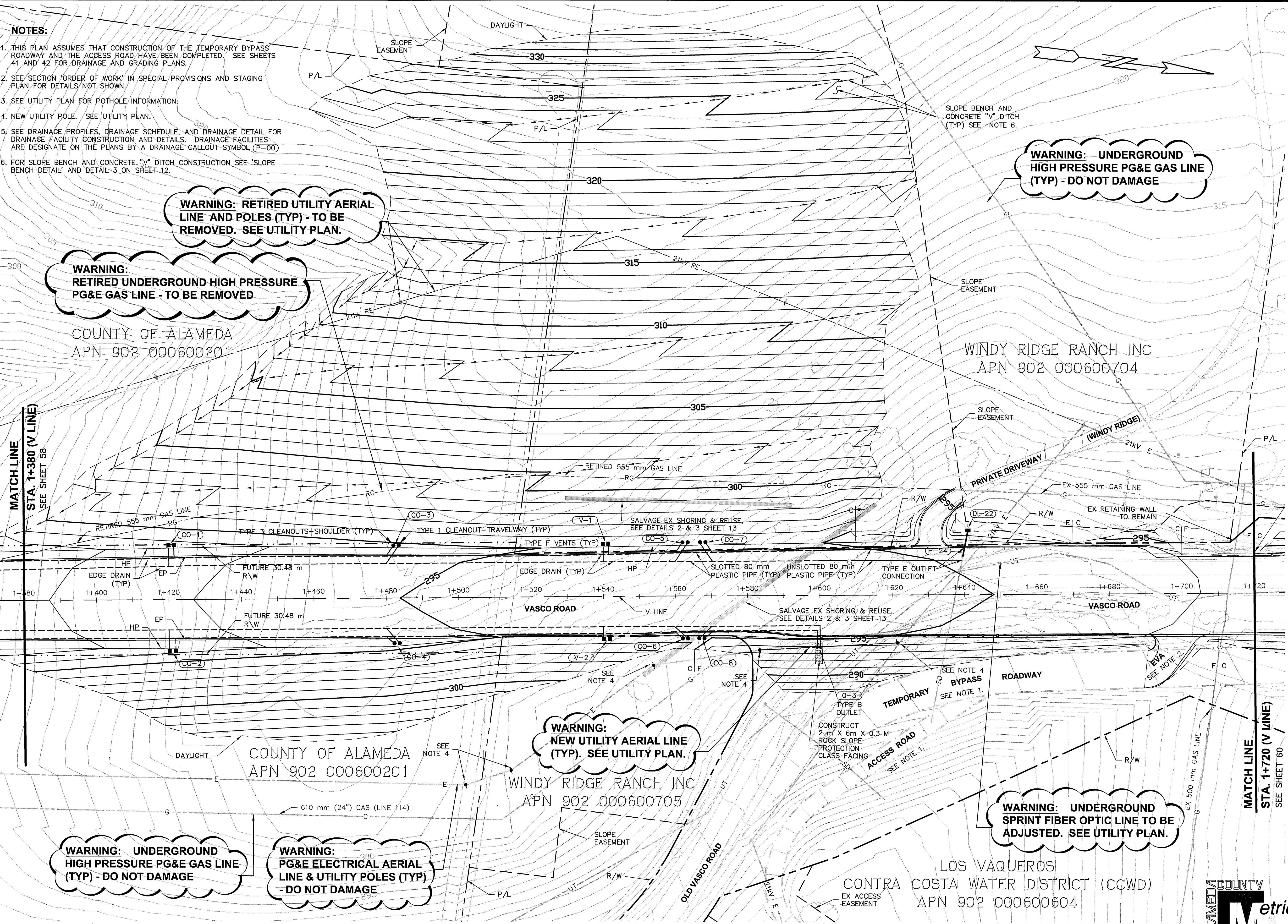
WARNING: UNDERGROUND HIGH PRESSURE PG&E GAS LINE (TYP) - DO NOT DAMAGE

WARNING: NEW UTILITY AERIAL LINE (TYP). SEE UTILITY PLAN.

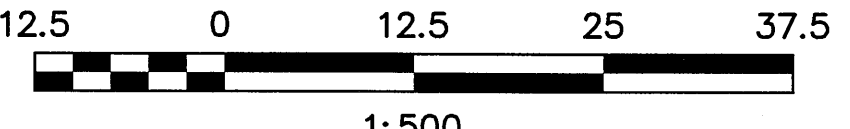
WARNING: UNDERGROUND HIGH PRESSURE PG&E GAS LINE (TYP) - DO NOT DAMAGE

WARNING: PG&E ELECTRICAL AERIAL LINE & UTILITY POLES (TYP) - DO NOT DAMAGE

WARNING: UNDERGROUND SPRINT FIBER OPTIC LINE TO BE ADJUSTED. SEE UTILITY PLAN.



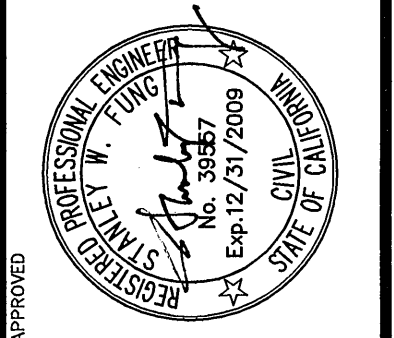
PLAN 1:500



FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED



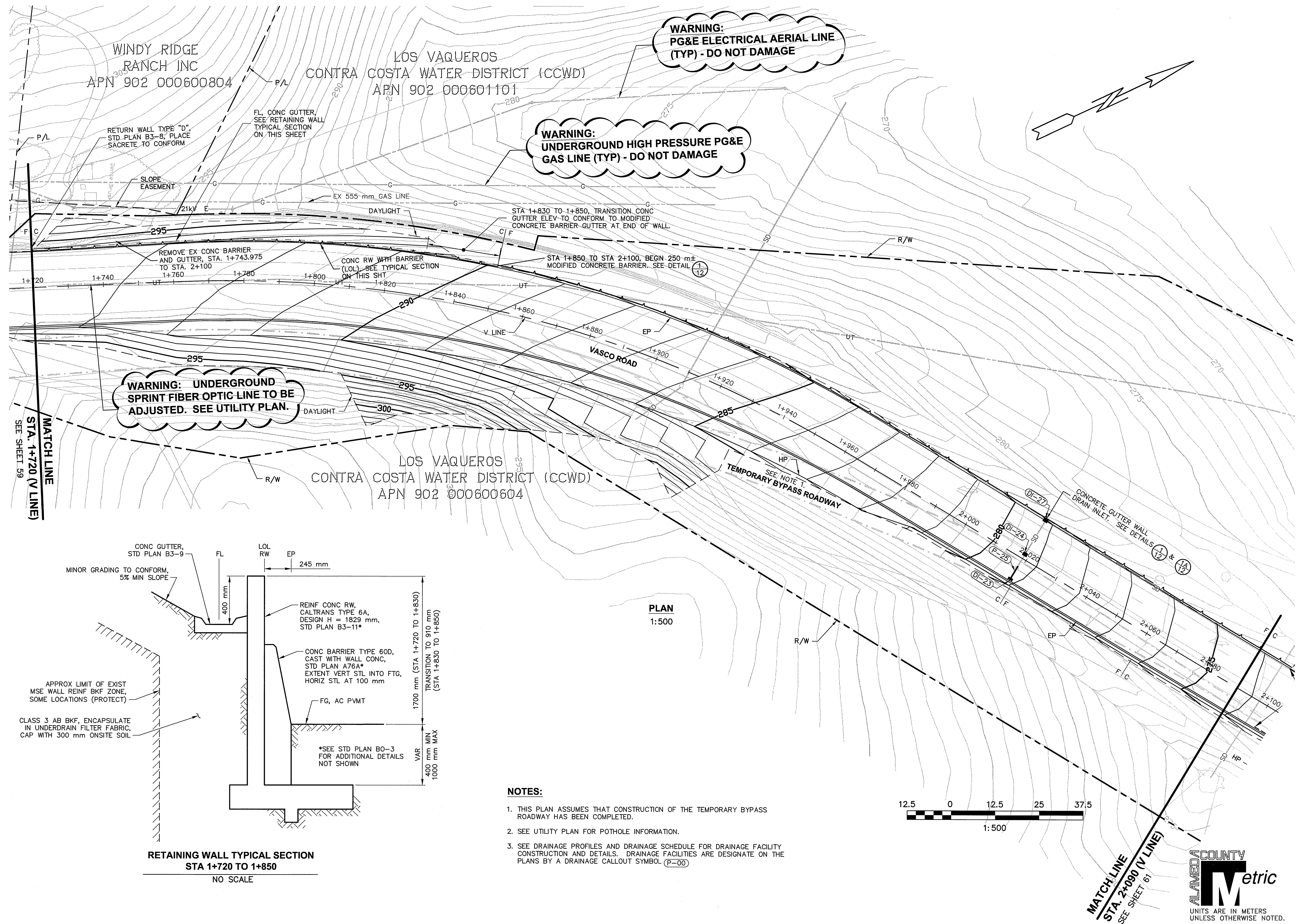
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
DRAINAGE AND GRADING PLAN

APPROVAL RECOMMENDED	APPROVAL RECOMMENDED	DATE	SCALE
JAMES W. FAZIO	JAMES W. FAZIO	JAN 2008	1:500
DESIGNED	CHECKED		
L. JOHANN, B. G. W. WARRICK, B. DANFORTH	MOSES TANG		

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	59 OF 145
FILE NO.	U-357-6

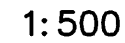
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 DRAINAGE AND GRADING PLAN		DRAWN JANE BARKER/ALEX BAUTISTA DESIGNED JAMES CHAN CHECKED L. JOHANNI, E. 1000 MOSES TSANG	APPROVAL RECOMMENDED JAMES CHAN APPROVAL RECOMMENDED L. JOHANNI, E. 1000	DATE JAN 2008 SCALE 1:500	NO. DESCRIPTION BY DATE APPV'D
WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 60 OF 145 FILE NO. U-357-6					



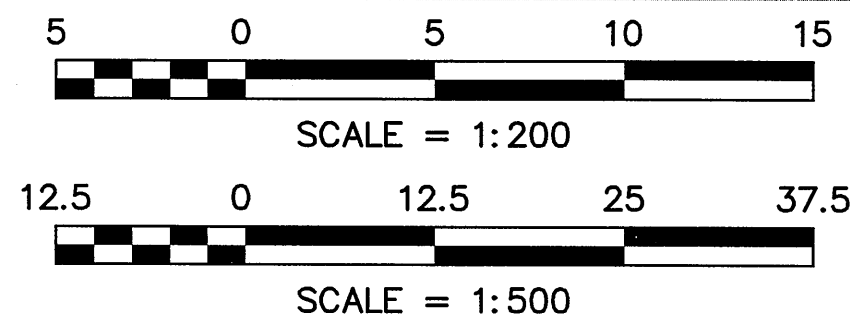
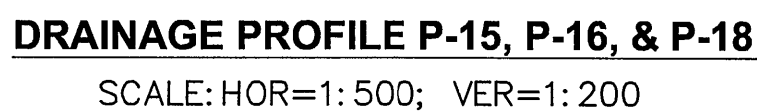
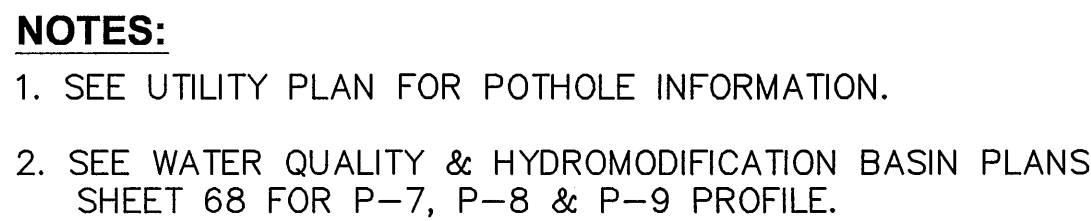
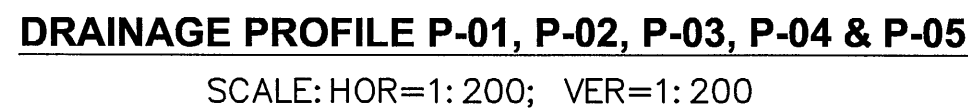
1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
2. SEE DRAINAGE PROFILES AND DRAINAGE SCHEDULE FOR DRAINAGE FACILITY CONSTRUCTION AND DETAILS. DRAINAGE FACILITIES ARE DESIGNATE ON THE PLANS BY A DRAINAGE CALLOUT SYMBOL (P-00)



UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 61 OF 145
FILE NO. U-357-6

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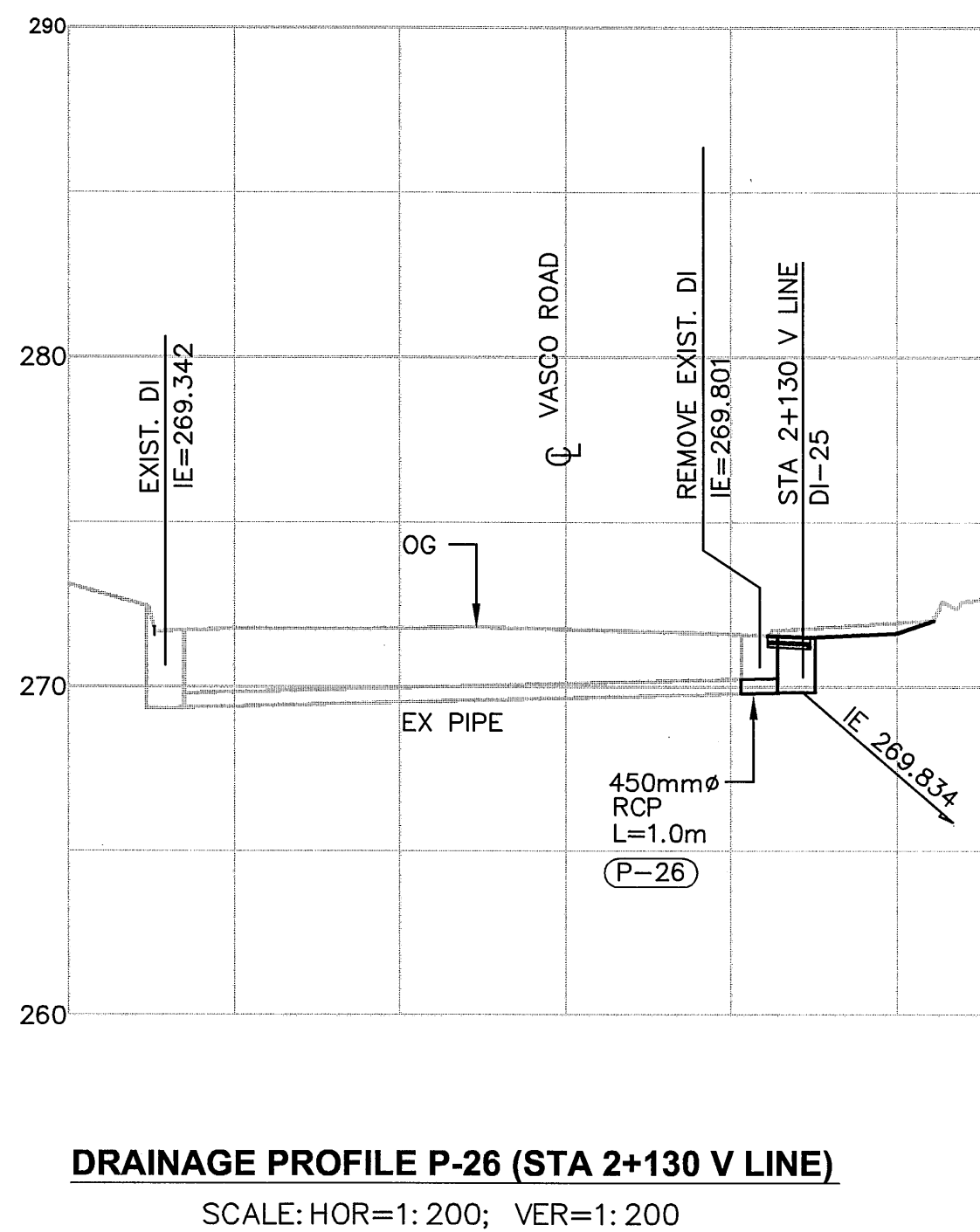
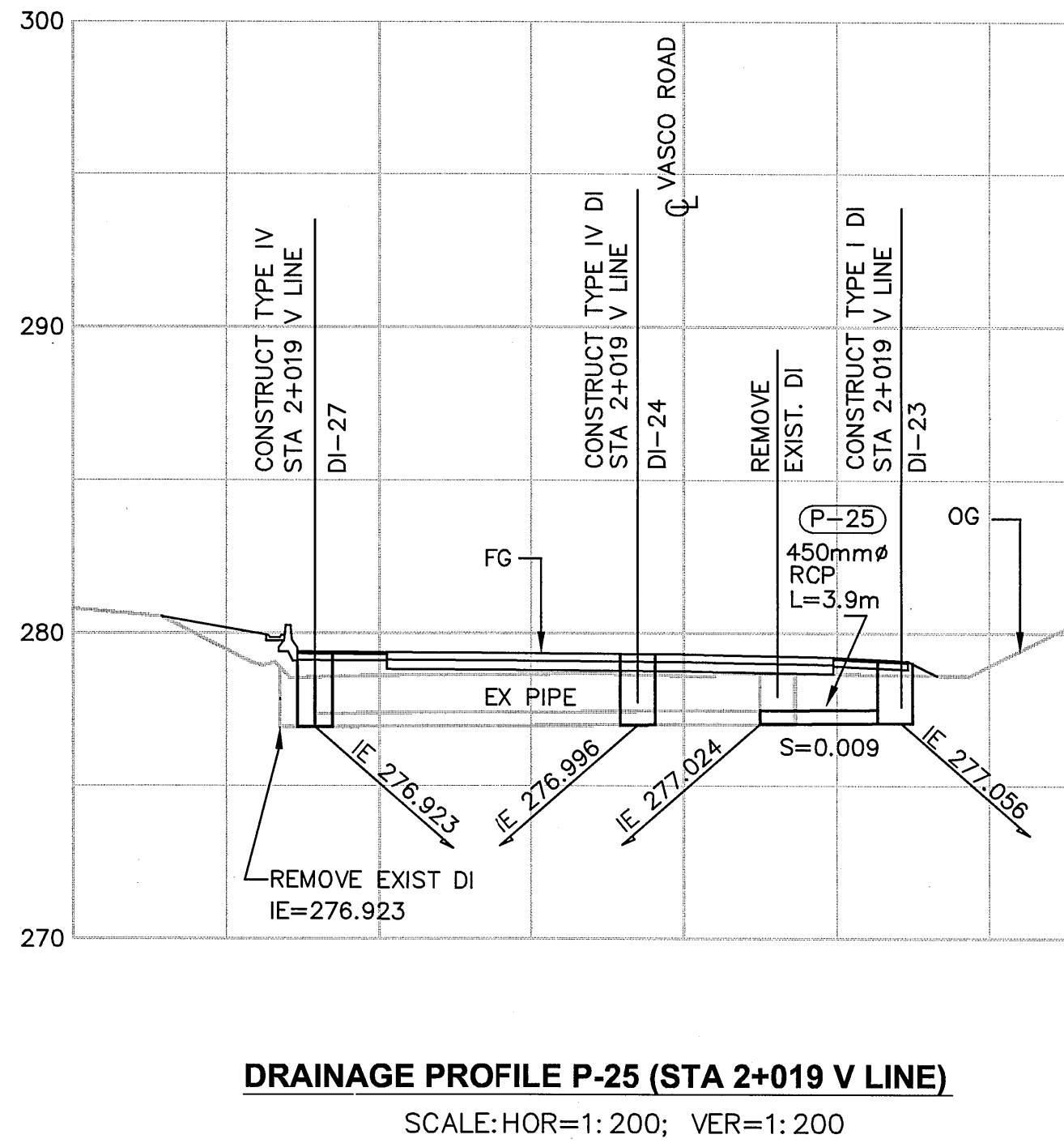
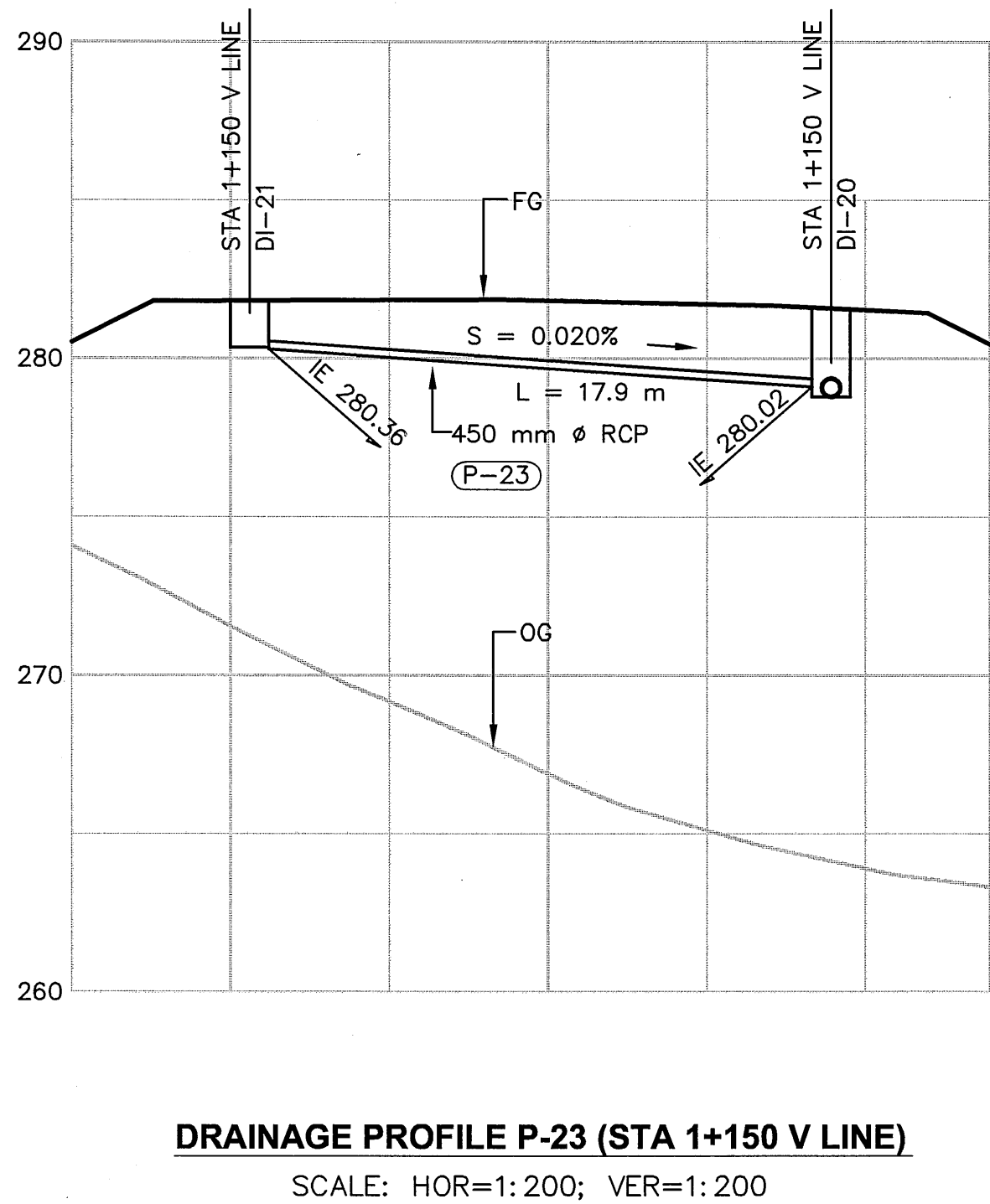
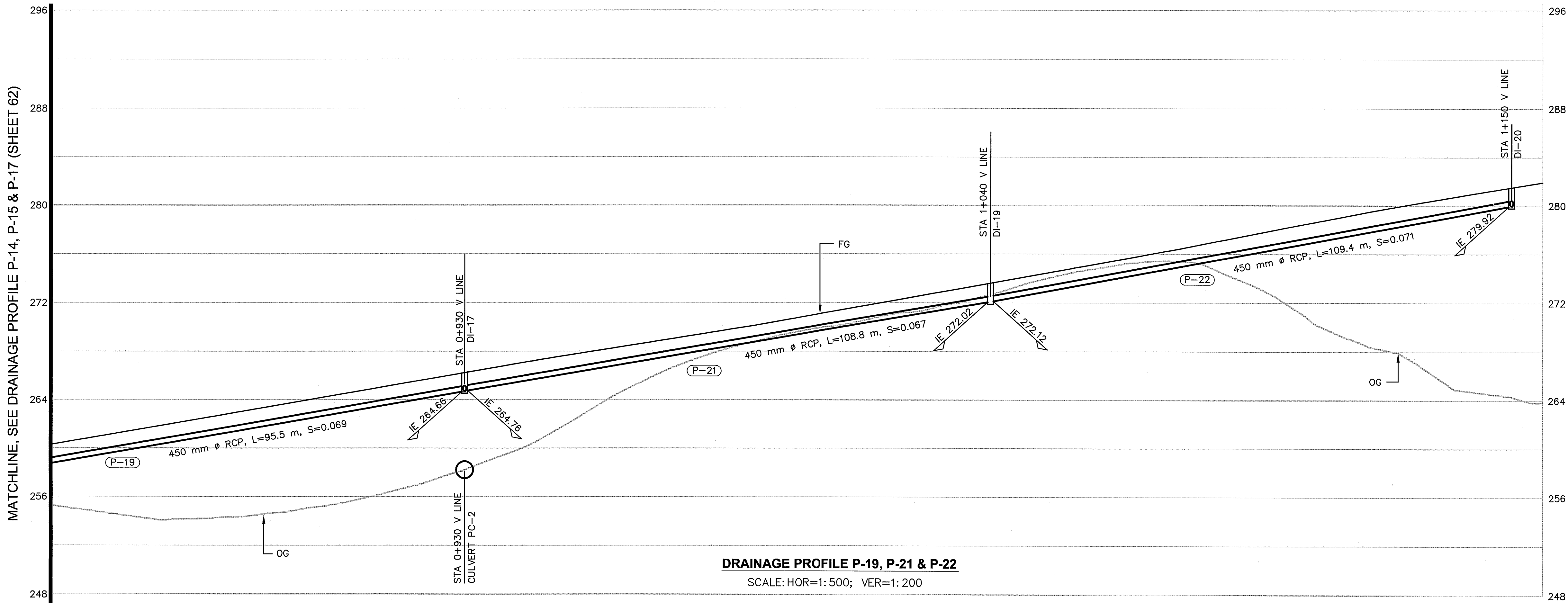


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

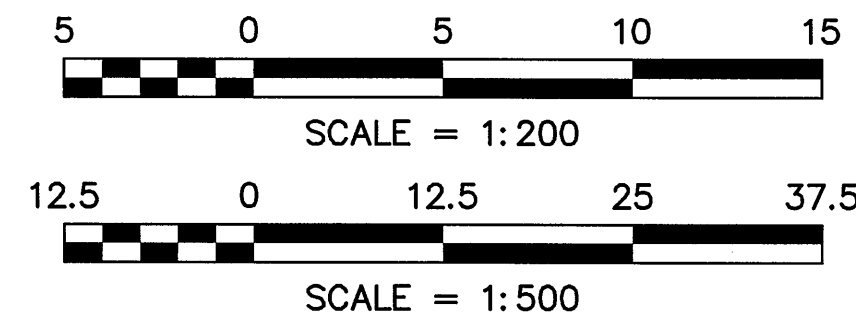
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 DRAINAGE PROFILES		WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 62 OF 145 FILE NO. U-357-6		APPROVED NO. DATE BY DESCRIPTION APPROVED	
DRAWN ALEX BAUTISTA DESIGNED LARRY JOHANN CHECKED MOSES TSANG		APPROVAL RECOMMENDED JAMES CHY APPROVAL RECOMMENDED ASHLEY G. CAMERA		APPROVAL RECOMMENDED Exp. 12/31/2008 Exp. 12/31/2008	
JAN 2008 SCALE		AS SHOWN		NO. DATE BY DESCRIPTION APPROVED	

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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- NOTES:**
1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.
 2. SEE SHEET 44 FOR DRAINAGE PROFILE P-24.

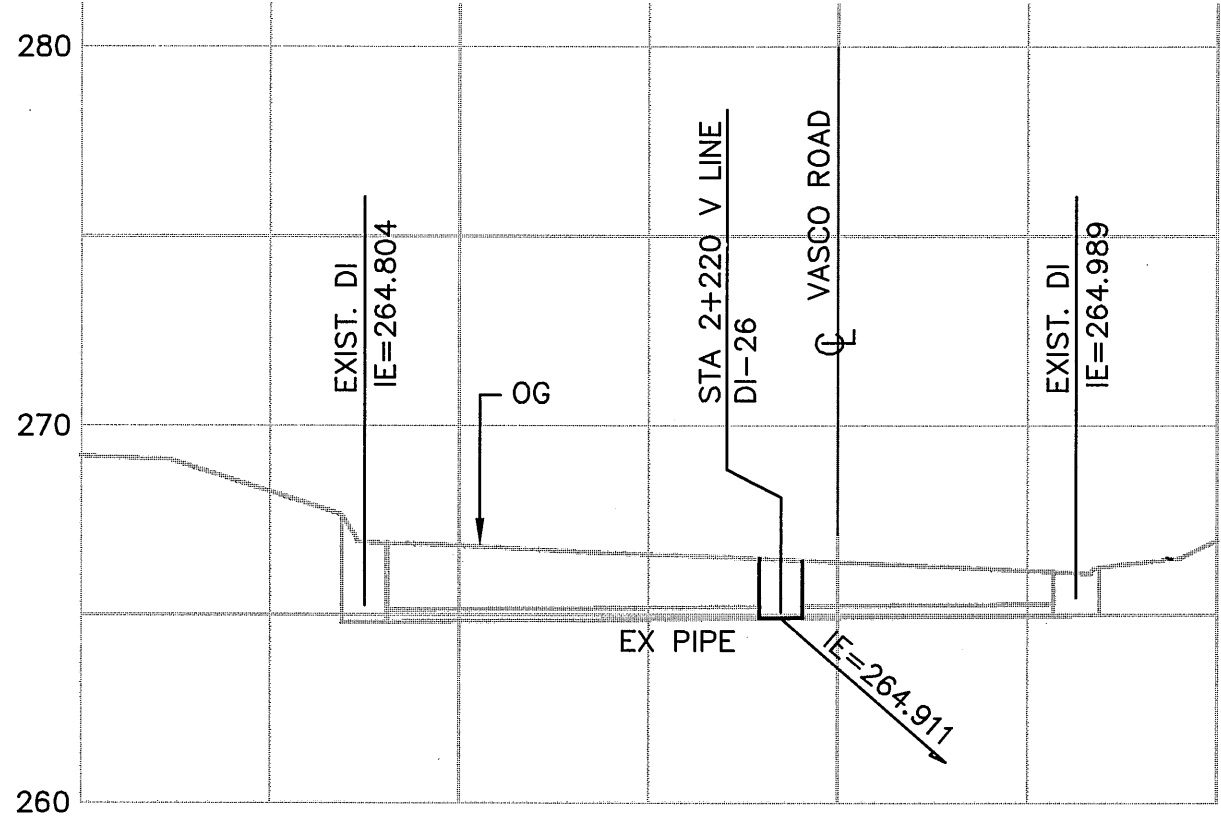


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		APPROVED	
DRAINAGE PROFILES		NO.	
DRAWN: Alex Batista		DATE: JAN 2008	
DESIGNED: Larry Johann		BY: DATE	
CHECKED: Moses Tsang		APPROVED	
WORK ORDER NO. R23265		SPECIFICATION NO. 1903	
SHEET NO. 63 OF 145		FILE NO. U-357-6	

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	CONSTRUCTION	MAINTENANCE	REAL ESTATE
SURVEY	TRAFFIC	ENVIRONMENTAL				

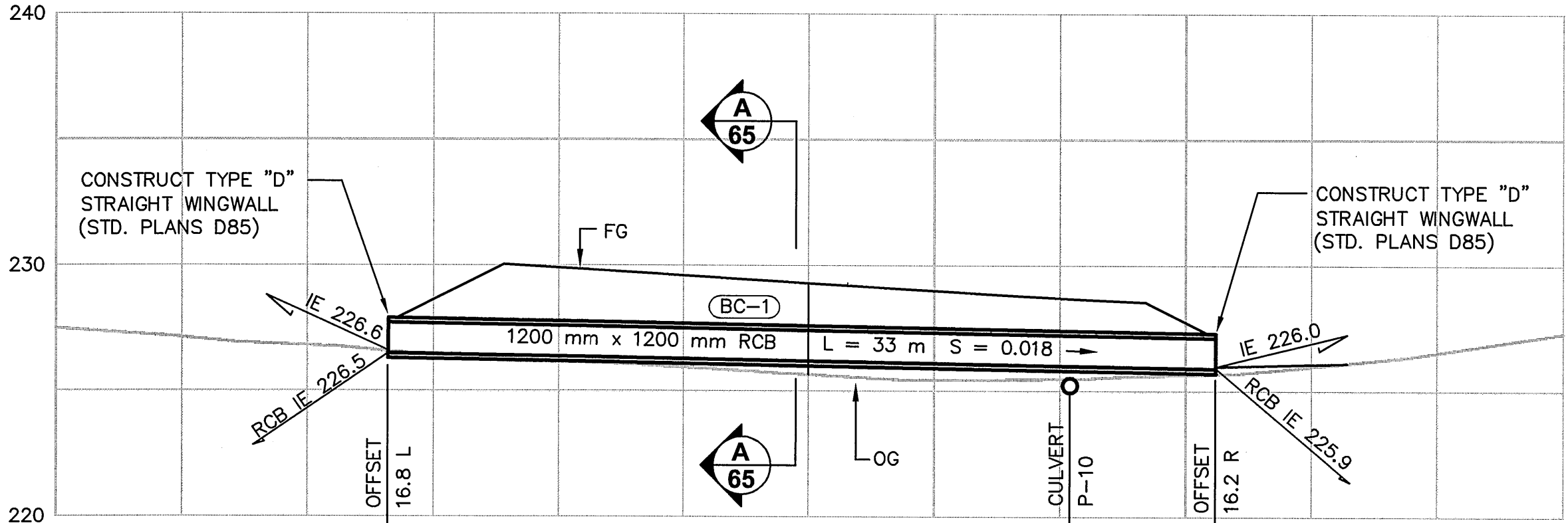
NOTES:

1. SEE UTILITY PLAN FOR POTHOLE INFORMATION.



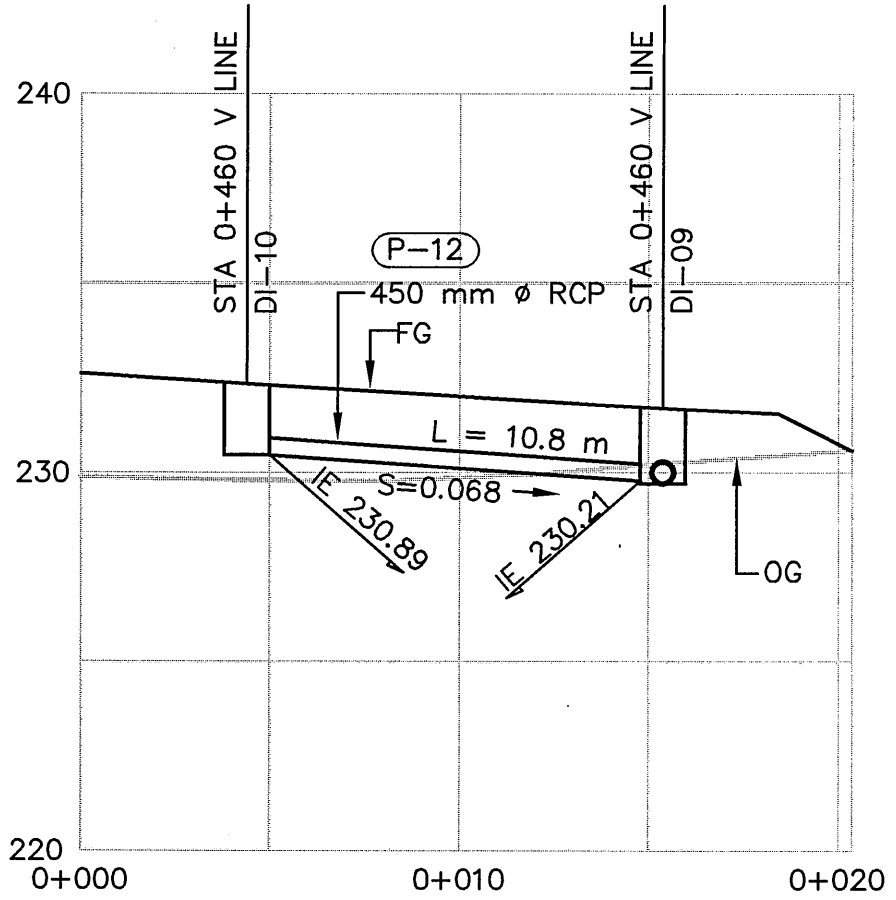
DRAINAGE INLET @ STA 2+220 V LINE

SCALE: HOR=1:200; VER=1:200



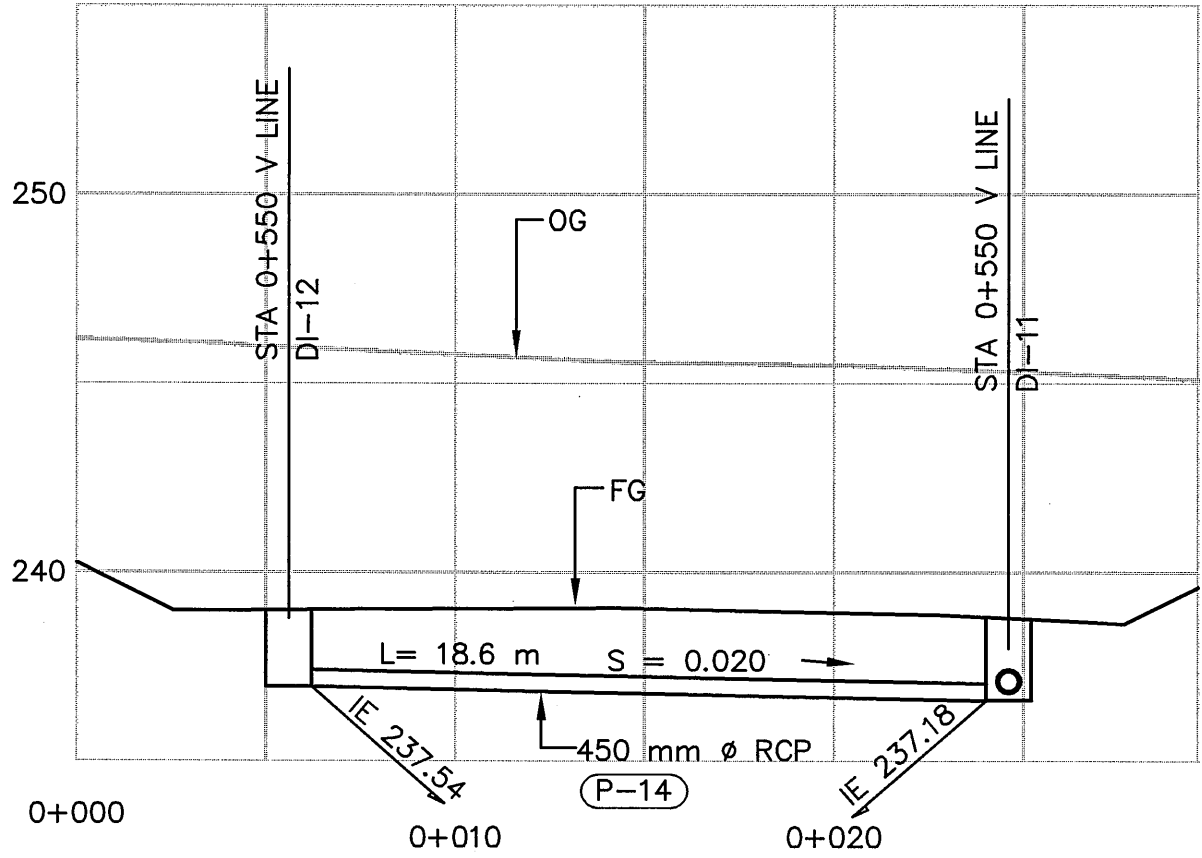
DRAINAGE PROFILE BC-1 (STA 0+420 V LINE)

SCALE: HOR=1:200; VER=1:200



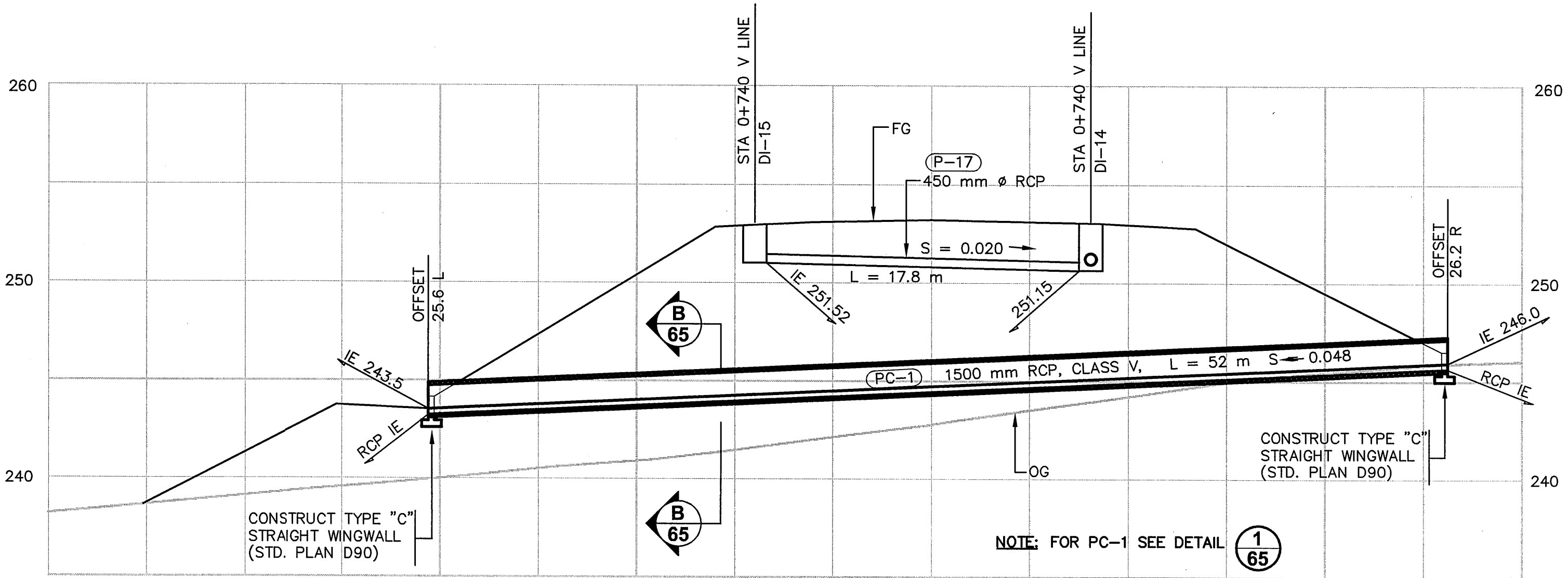
DRAINAGE PROFILE P-12 (STA 0+460 V LINE)

SCALE: HOR=1:200; VER=1:200



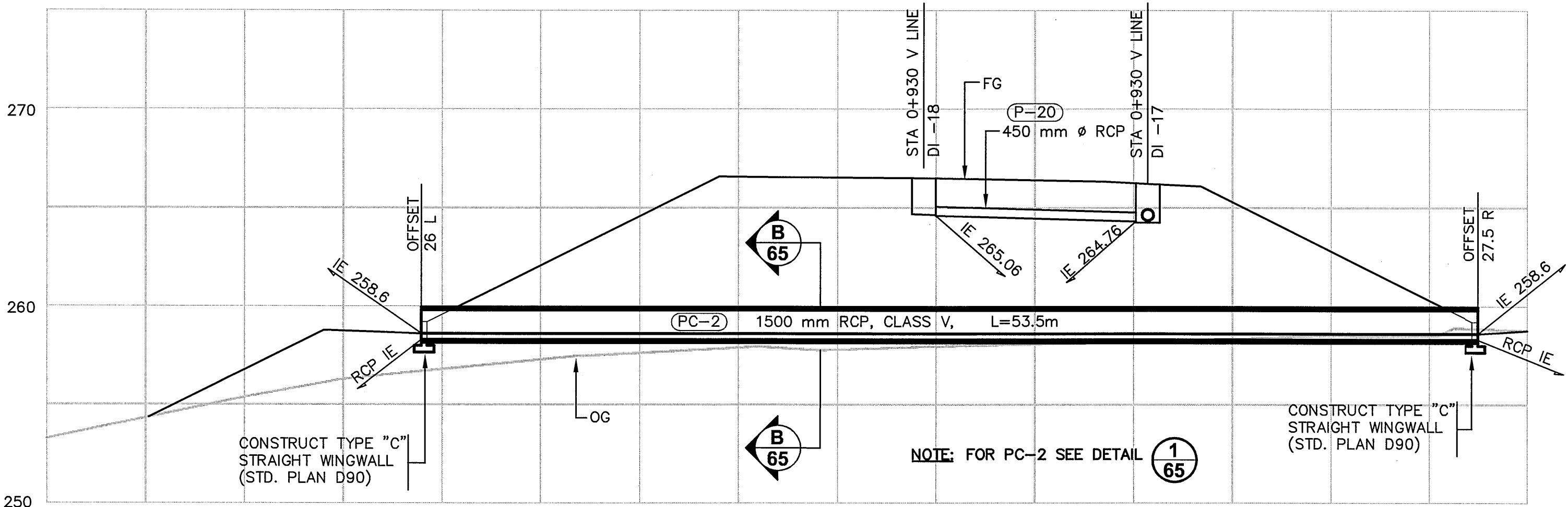
DRAINAGE PROFILE P-14 (STA 0+550 V LINE)

SCALE: HOR=1:200; VER=1:200



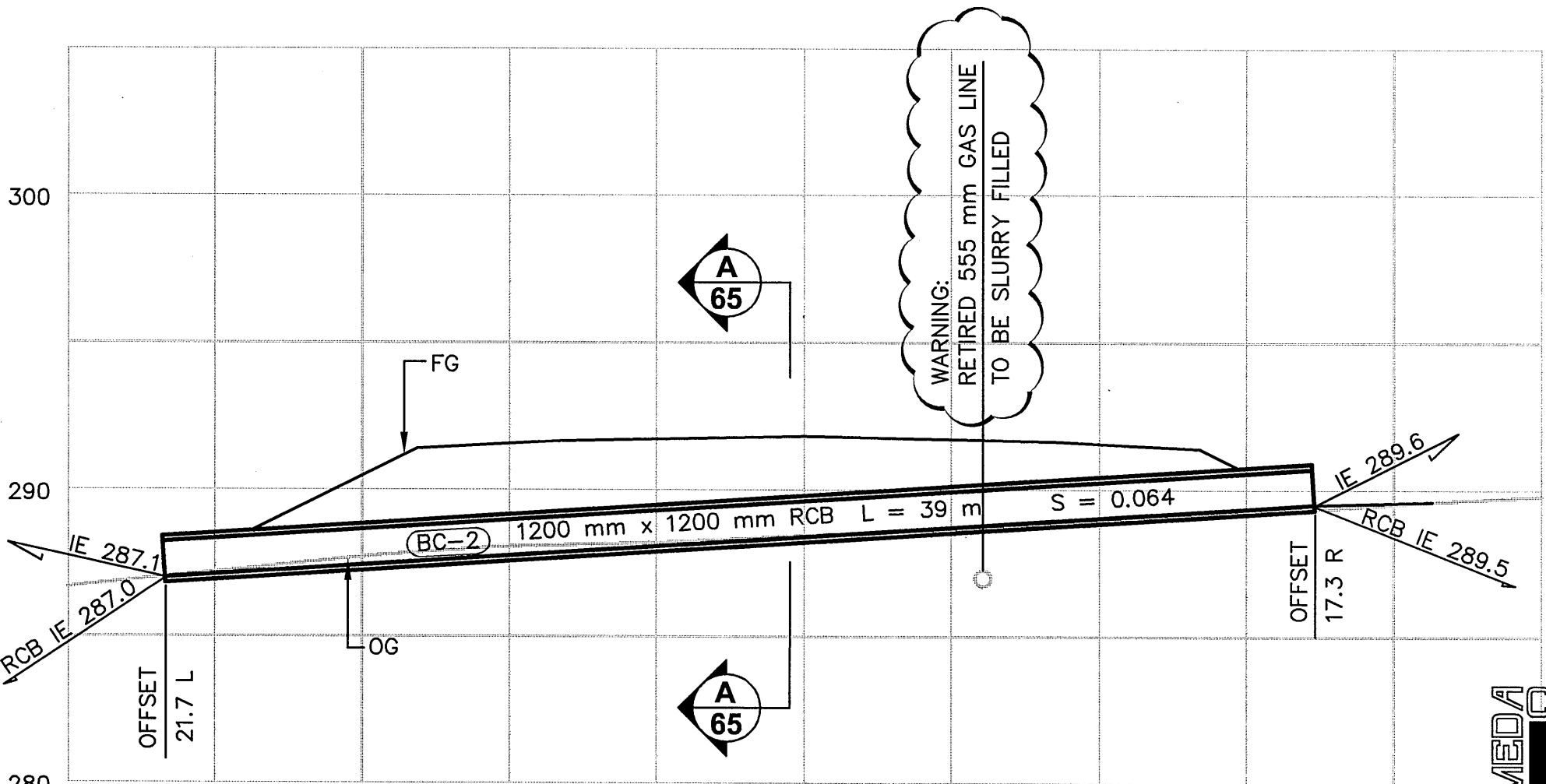
DRAINAGE PROFILE P-17 AND PC-1 (STA 0+740 V LINE)

SCALE: HOR=1:200; VER=1:200



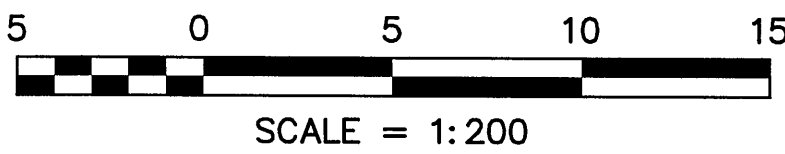
DRAINAGE PROFILE P-20 AND PC-2 (STA 0+930 V LINE)

SCALE: HOR=1:200; VER=1:200

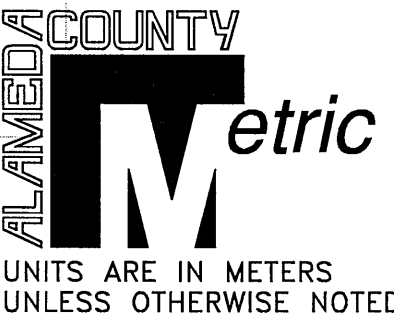


DRAINAGE PROFILE BC-2 (STA 1+350 V LINE)

SCALE: HOR=1:200; VER=1:200



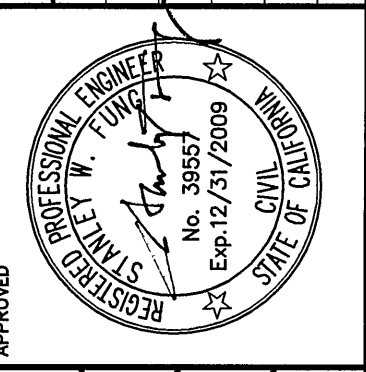
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UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

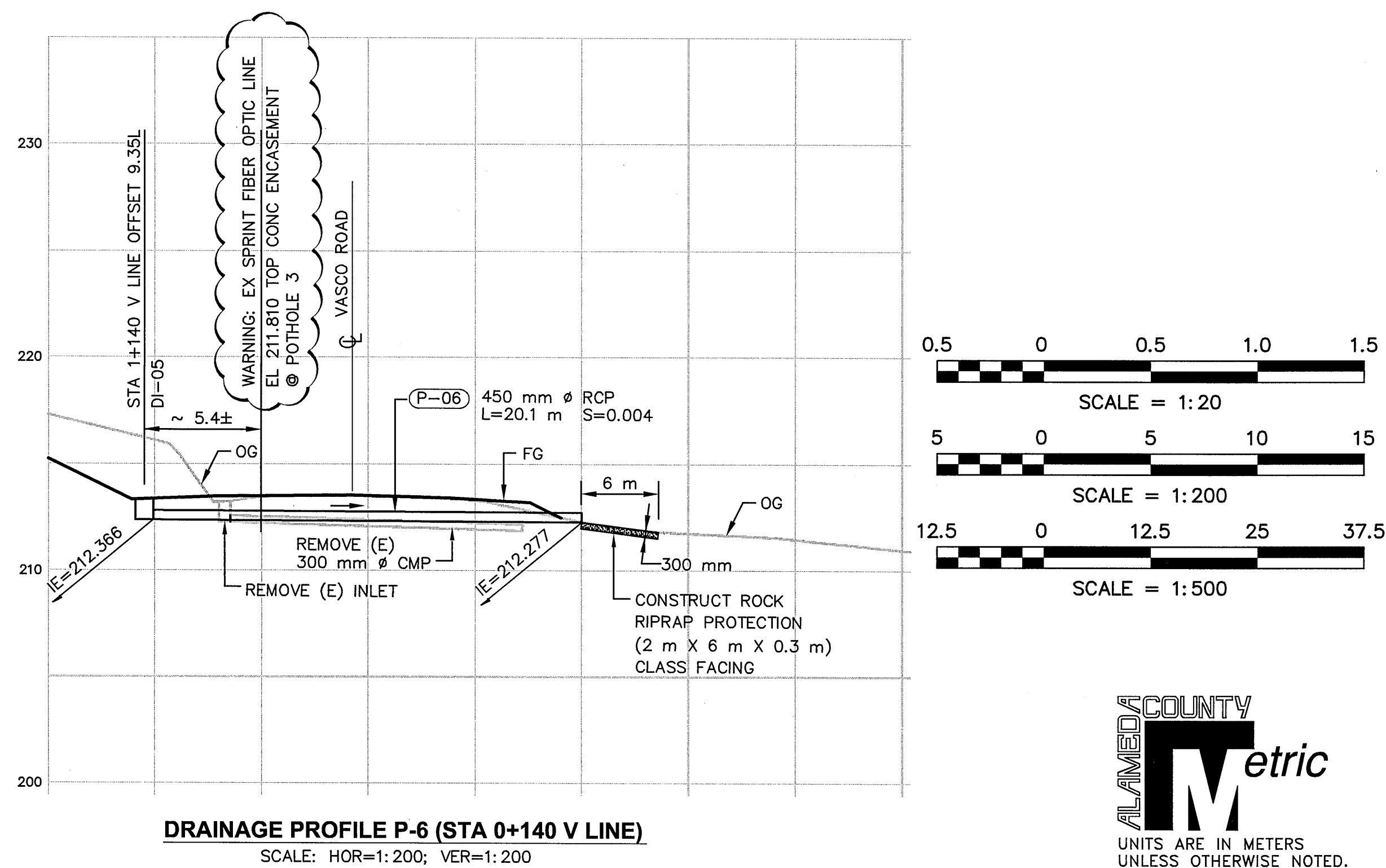
**THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3**

DRAINAGE PROFILES

APPROVAL RECOMMENDED	APPROVAL RECOMMENDED	DATE	SCALE	AS SHOWN
JAMES CHEN	JAMES CHEN	JAN 2008	1" = 200'	AS SHOWN
DESIGNED	DESIGNED	DATE	SCALE	AS SHOWN
LARRY JOHANN	LARRY JOHANN	JAN 2008	1" = 200'	AS SHOWN
CHECKED	CHECKED	DATE	SCALE	AS SHOWN
MOSES TSANG	MOSES TSANG	JAN 2008	1" = 200'	AS SHOWN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	64 OF 145
FILE NO.	U-357-6

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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		DRAWN ALEX BAUTISTA DESIGNED JAMES CHU APPROVAL RECOMMENDED JAMES CHU No. 39857 Exp. 12/31/2008 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIF.		NO. DESCRIPTION BY DATE APPROVD	
DRAINAGE PROFILE & SECTIONS		CHECKED LARRY JOHANN DATE JAN 2008 SCALE AS SHOWN			
WORK ORDER NO. R23265					
SPECIFICATION NO. 1903					
SHEET NO. 65 OF 145					
FILE NO. U-357-6					

REVIEWED BY:

DATE:

CONSTRUCTION

REVIEWED BY:

DATE:

MAINTENANCE

REVIEWED BY:

DATE:

REAL ESTATE

SURVEY

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DATE:

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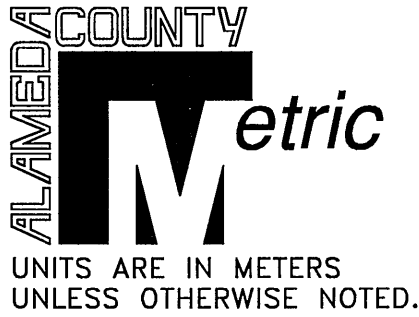
SPECIAL DRAINAGE STRUCTURE SCHEDULE					
Id	Type	V Line Station	Offset to Center		Notes
ED-01	Energy Dissipator	0+265.93	45.76	R	
PR-01	Pipe Riser	0+286.93	21.27	R	
SWTU	Storm Water Treatment Unit	0+020	9.90	L	Construct right-handed CDS unit or equivalent. In/Out Invert = 207.5 Base El. = 206.8

DRAINAGE INLET SCHEDULE												
Inlet Id	V Line Station	Offset to Inlet CL	Grate Type	Grate El.	Main Inlet FL El.	Lateral Inlet FL El.	Outlet FL El.	Notes	Type I (DG-308)	Type IV (DG-313)	Type VI (DG-309)	Type GDO
DI-01	0+016	5.70	R	DG-317	209.18	207.00	-	206.90	Construct Type I (DG-308, Curb Inlet Type 1) with outlet on back wall	1		
DI-02	0+016	8.20	L	DG-317	209.00	207.40	-	207.30	Remove Existing DI. Construct Type IV (DG-313, Inlet 3)		1	
DI-03	0+024	11.85	L	DG-317	209.26	207.70	-	207.60	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-04	0+024	5.70	R	DG-317	209.45	-	-	208.00	Construct Type I (DG-308, Curb Inlet Type 1)	1		
DI-05	0+140	9.35	L	DG-317	213.33	-	-	212.37	Remove Existing. DI. Construct Type IV (DG-313, Inlet Type 3) Add pipe segment P-06.		1	
DI-06	0+283.86	24.43	R			-			Construct Type			
DI-07	0+338	10.60	R	DG0317	222.54	221.09	-	220.99	Construct Type I (DG-308, Curb Inlet Type 1)with outlet on back	1		
DI-08	0+422	10.60	R	DG-317	228.82	227.37	-	225.00	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-09	0+460	10.60	R	DG-317	231.66	230.21	230.21	230.11	Construct Type VI (DG-309, Curb Inlet 2)			1
DI-10	0+460	1.25	L	600-12*	232.34	-	-	230.89	Construct Type IV (DG-313, Inlet Type 3)		1	
DI-11	0+550	10.60	R	DG-317	238.76	237.18	237.18	237.08	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-12	0+550	8.88	L	DG-317	238.99	-	-	237.54	Construct Type I (DG-308, Curb Inlet Type 1)	1		
DI-13	0+640	10.60	R	DG-317	245.51	244.06	-	243.96	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-14	0+740	10.60	R	DG-317	252.92	251.15	251.15	251.05	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-15	0+740	8.20	L	DG-317	252.97	-	-	251.52	Construct Type I DG-308, Curb Inlet Type 1)	1		
DI-16	0+835	10.60	R	DG-317	259.56	258.11	-	258.01	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-17	0+930	10.60	R	DG=317	266.21	264.76	264.76	264.66	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-18	0+930	1.25	L	600-12*	266.51	-	-	265.06	Construct Type IV (DG-313, Inlet Type 3)		1	
DI-19	1+040	10.60	R	DG-317	273.57	272.12	-	272.02	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-20	1+150	10.60	R	DG-317	281.55	280.02	-	279.92	Construct Type VI (DG-309, Curb Inlet Type 2)			1
DI-21	1+150	8.15	L	DG-317	281.81	-	-	280.36	Construct Type I (DG-308, Curb Inlet Type 1)	1		
DI-22	1+641	17.90	L	SDG-317	293.295	-	-	290.865	Remove Existing DI. Construct Type IV (DG-313, Inlet Type 3)		1	
DI-23	2+019	7.11	R	DG-317	279.100	-	-	277.052	Remove Existing DI. Construct Type I (DG-308, Curb Inlet Type 1)	1		
DI-24	2+019	1.50	L	600-12*	279.318	277.000	-	276.992	Construct Type IV (DG-313, Inlet Type 3) with inlet on back wall		1	
DI-25	2+130	7.75	R	DG-317	271.513	-	-	269.815	Remove Existing DI. Construct Type 1 (DG-308, Curb Inlet Type 1)	1		
DI-26	2+220	1.15	L	600-12*	266.459	264.915	-	264.907	Construct Type IV with inlet on back wall (DG-313, Inlet Type 3)		1	
DI-27	2+019	12.11	L	DG-317	279.383	276.927			Remove exist. DI, Construct Type IV (DG-313, Inlet Type 3) & trim exist pipe		1	
* Standard Plans D77A									8	8	10	0
Total										26		

PIPE SCHEDULE								
Pipe Id	Type				Adjoining Structure Id		Notes	
	450 mm CPP	450 mm CMP	450 mm RCP	600 mm RCP				
	Approximate Length (m)				Lower	Upper		
P-01			6.2		-	DI-01	Remove Existing Pipe. Beware of Underground Utility.	
P-02			13.2		DI-01	DI-02		
P-03			3.3		DI-02	SWTU		
P-04			3.3		SWTU	DI-03		
P-05			16.8		DI-03	DI-04	Beware of Underground Utility.	
P-06			20.1		-	DI-05		
P-07				3.7	DI-06	PR-01	Class IV RCP; Pond Outfall Pipe	
P-08				26.4	ED-01	DI-06	Class IV RCP; Pond Outfall Pipe	
P-09		11.5			-	DI-07	Down Drain to Hydromodification Basin	
P-10			82.5		DI-07	DI-08	STA. 0+412 TO 0+422 use Class V RCP	
P-11			36.8		DI-08	DI-09		
P-12			10.8		DI-09	DI-10		
P-13			89.8		DI-09	DI-11		
P-14			18.6		DI-11	DI-12		
P-15			90.7		DI-11	DI-13		
P-16			101.0		DI-13	DI-14		
P-17			17.8		DI-14	DI-15		
P-18			95.4		DI-14	DI-16		
P-19			95.5		DI-16	DI-17		
P-20			10.8		DI-17	DI-18		
P-21			108.8		DI-17	DI-19		
P-22			109.4		DI-19	DI-20		
P-23			17.9		DI-20	DI-21		
P-24			77.9		-	DI-22		CLASS V RCP
P-25			3.9		DI-24	DI-23		
P-26			1.0		Ex. Pipe	DI-25		
P-T1	8.2				-	Ex. Pipe		
P-T2			5.6		Ex. Pipe	NEW INLET	INLET TYPE I	
Total:	8.2	11.5	1,037.1	30.1				

PIPE CULVERT SCHEDULE						
1500 mm Reinforced Concrete Pipe, Class V						
Id	V Line Station	Left Offset	Invert El (m)	Right Offset	Invert El (m)	Length (m)
PC-1	0+740	25.6	243.5	26.2	246.0	51.8
PC-2	0+930	26.1	258.6	27.5	258.6	53.6
PC-3	1+177.51	53.1	276.4	29.8	276.1	150
-----	-----	12.8	272.7	15.3	272.5	25.6
						255.4
						Total

BOX CULVERT SCHEDULE						
1200 mm x 1200 mm Reinforced Concrete Box						
Id	V Line Station	Left Offset	Invert El (m)	Right Offset	Invert El (m)	Length (m)
BC-1	0+420	16.8	226.5	16.2	225.9	33.0
BC-2	1+350	21.7	287.0	17.3	289.5	39.0
						72
						Total



REVISIONS

APPROVED

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 33657
Exp. 12/31/2009
JANUARY 11, 2008

APPROVAL

RECOMMENDED
JAMES CHIA
DESIGNED
APPROVAL
LARRY JOHANN
CHECKED
MOSES TSANG

DATE
JAN 08

SCALE
AS SHOWN

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

DRAINAGE SCHEDULE

WORK ORDER NO.
R23265

SPECIFICATION NO.
1903

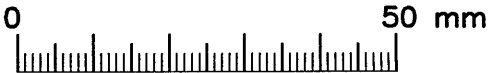
SHEET NO.
66 OF 145

FILE NO.
U-357-6

BY

DATE

APPROVED

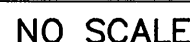




NO SCALE



NO SCALE



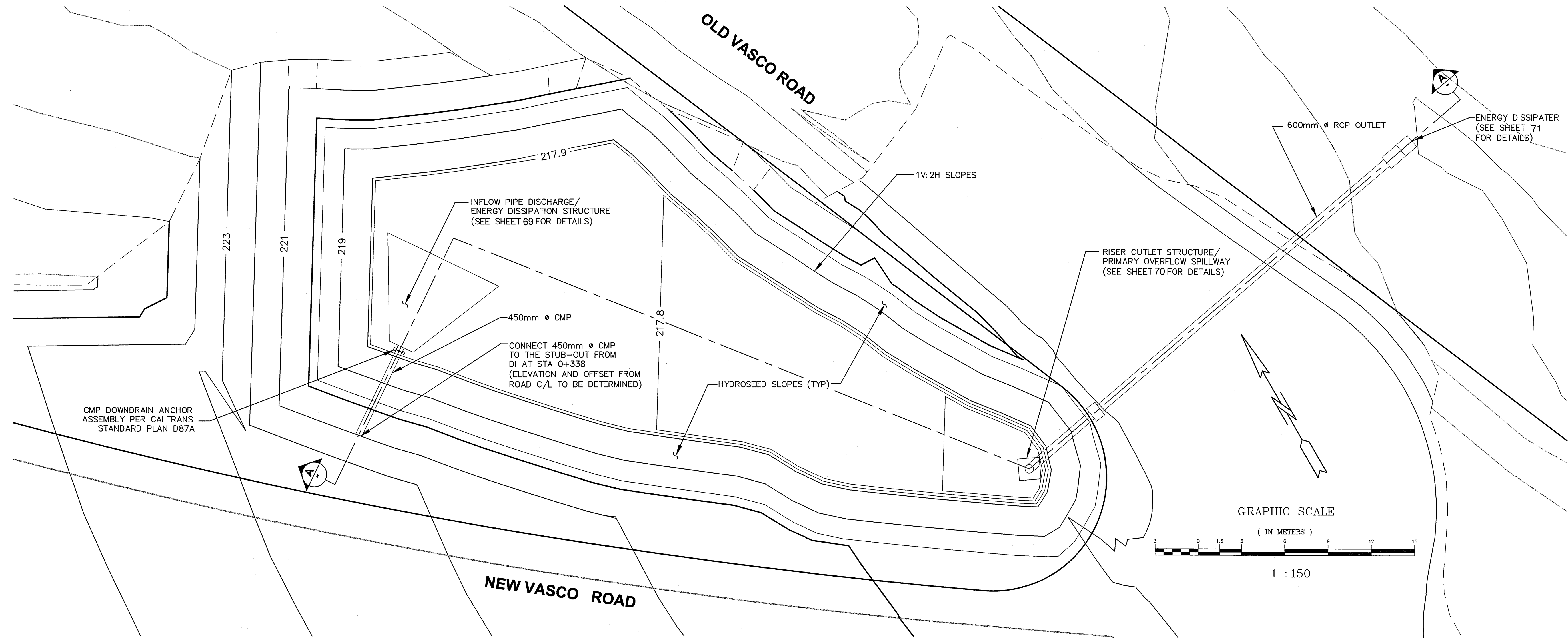
*CULVERT MARKER EQUATION: V LINE STA 0+286.93 AT PR-1
3.22 MM BACK = 3.34 MM AHEAD

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTE

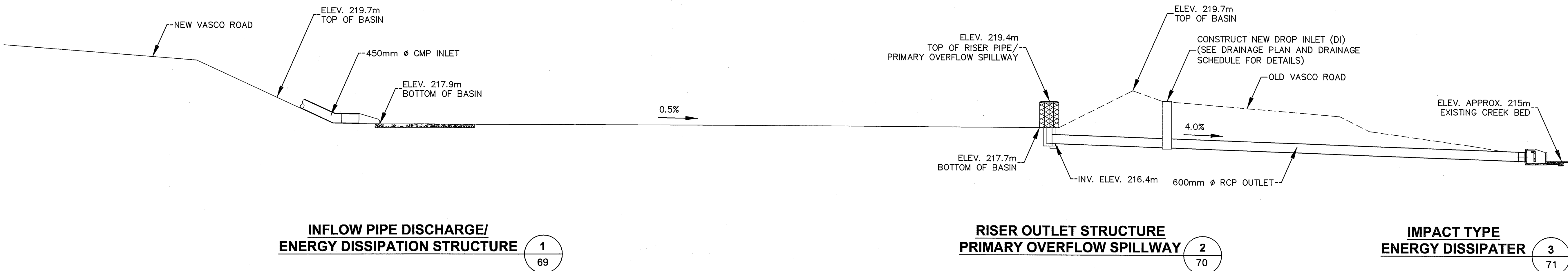
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 DRAINAGE DETAILS		DRAWN JANE RINGOLD DESIGNED J. J. McManis BY J. J. McManis CHECKED JAMES CHU		APPROVAL RECOMMENDED JAMES CHU APPROVAL RECOMMENDED J. J. McManis APPROVED JAMES CHU		DATE JAN 2008 SCALE AS SHOWN		APPROVED 		REVISIONS		APPROVED DATE BY DESCRIPTION NO.	
WORK ORDER NO. R23265		SPECIFICATION NO. 1903		SHEET NO. 67 OF 145		FILE NO. U-357-6							

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY		TRAFFIC	
	ENVIRONMENTAL			

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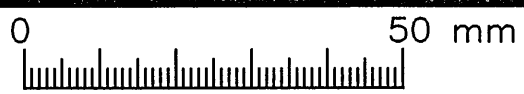


PLAN
SCALE: 1:150

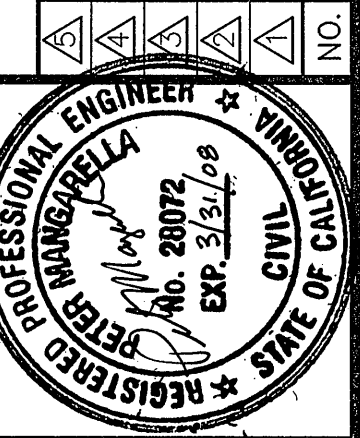


BASIN FLOW LINE SCHEMATIC SECTION A
NO SCALE

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



REVISIONS



Geosyntec
consultants
475 14th Street, Suite 400
Oakland, California 94612
(510) 898-3084
Fax (510) 898-3086

DESIGNED BY: Christopher K. Dotter
CHECKED BY: Christopher K. Dotter
DRAWN BY: Christopher K. Dotter

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

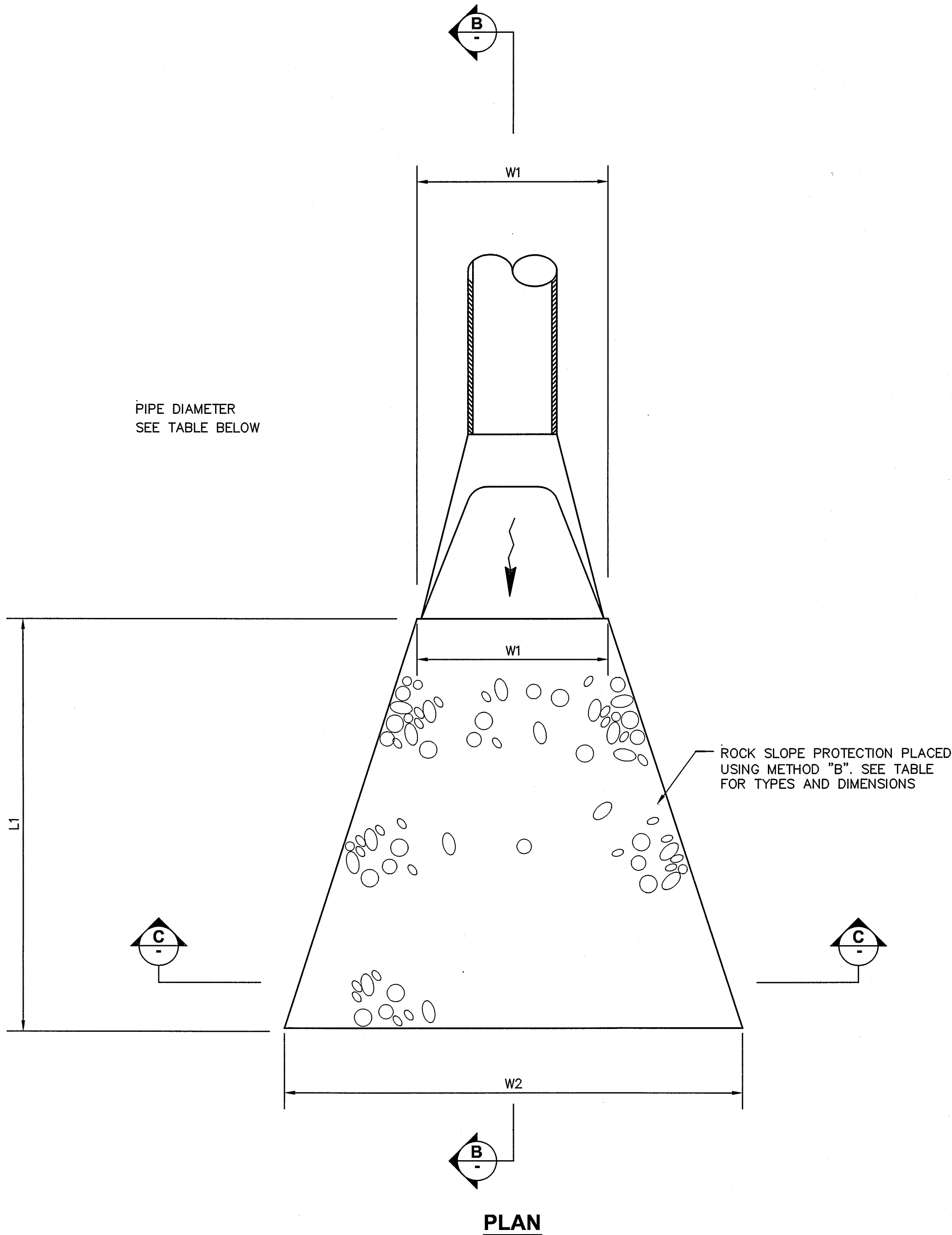
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
WATER QUALITY AND
HYDROMODIFICATION BASIN
PLAN AND PROFILE

DATE: AUG 2007
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 68 OF 145
FILE NO.: U-357-6



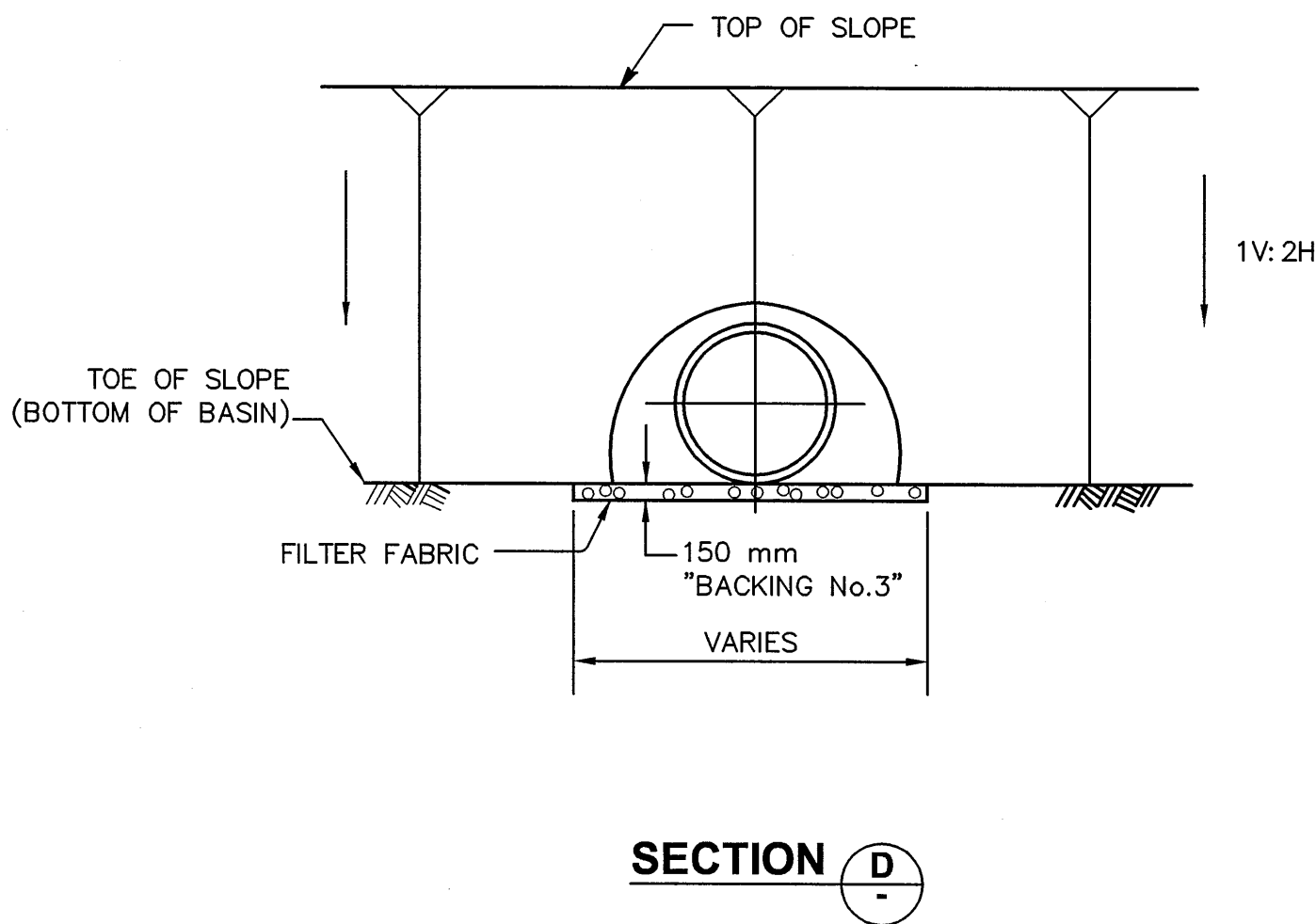
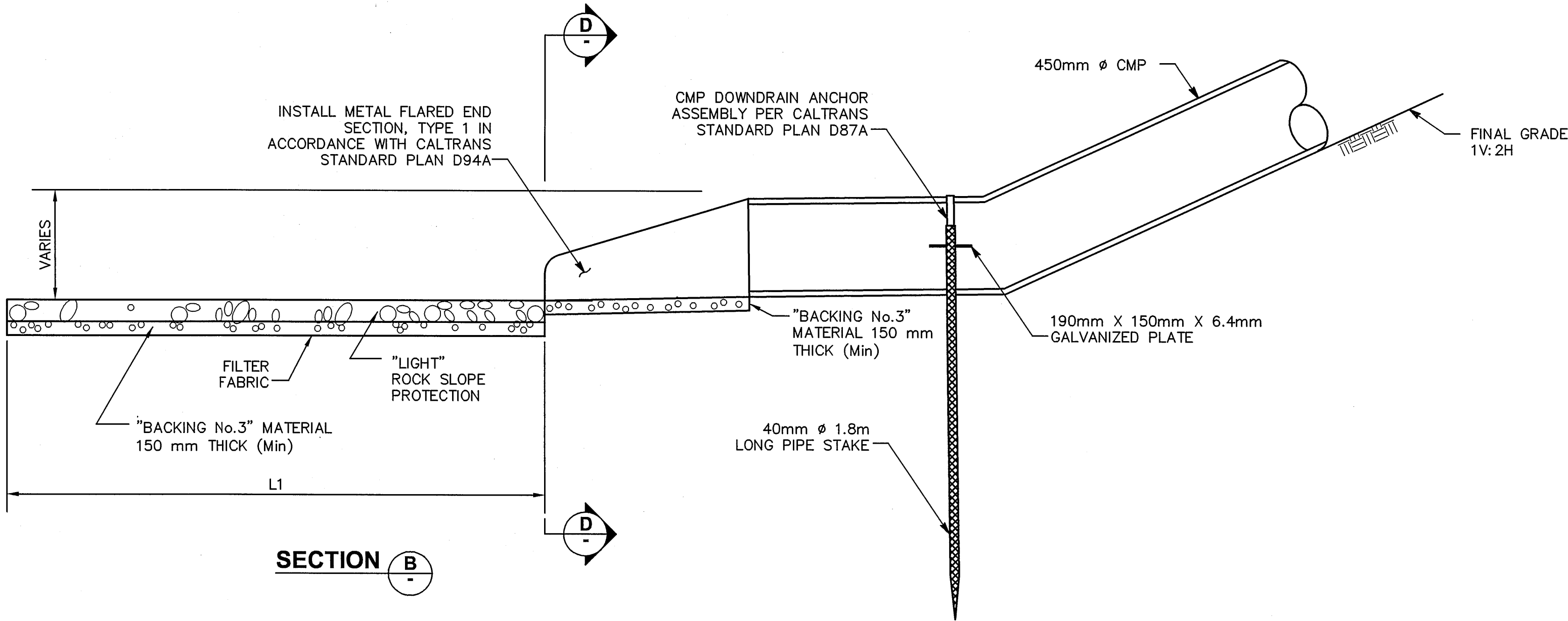
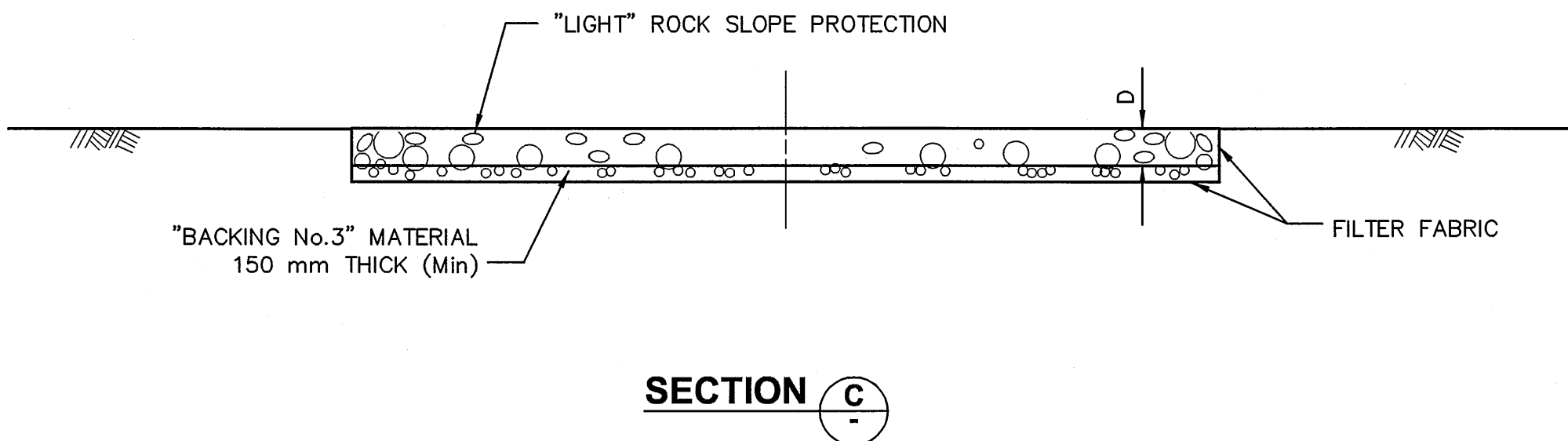
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION		SURVEY	
MAINTENANCE		TRAFFIC	
REAL ESTATE		ENVIRONMENTAL	



NOTE:

1. FILTER (ROCK SLOPE PROTECTION) FABRIC TO BE PLACED UNDER ALL ROCK SLOPE PROTECTION.



ROCK SLOPE PROTECTION DIMENSIONS TABLE

PIPE DIAMETER	WIDTH "W1"	WIDTH "W2"	LENGTH "L1"	ROCK SLOPE PROTECTION TYPE-- "LIGHT"	ROCK SLOPE PROTECTION LAYER THICKNESS "D"	ROCK SLOPE PROTECTION TYPE-- "BACKING No.3"	BACKING LAYER THICKNESS	LINING TYPE
450 mm	1.83 m	8.53 m	6.71 m		0.60 m		0.15 m	FILTER FABRIC

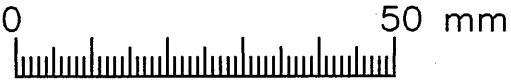
**INFLOW PIPE DISCHARGE/
ENERGY DISSIPATION STRUCTURE**
NOT TO SCALE

1

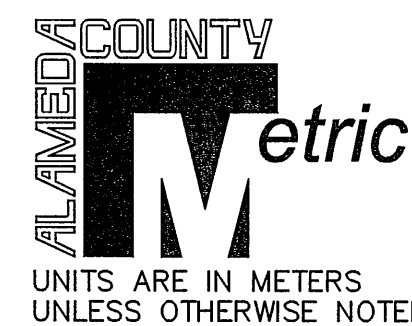
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY		THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 WATER QUALITY AND HYDROMODIFICATION BASIN INLET STRUCTURE	
DATE AUG 2007	SCALE AS SHOWN	WORK ORDER NO. R23265	SPECIFICATION NO. 1903
SHEET NO. 69 OF 145		FILE NO. U-357-6	
APPROVED: <i>[Signature]</i> LARRY JOHNSON REVIEWED: <i>[Signature]</i> MOSES TANG		DESIGNED: <i>[Signature]</i> CHRISTOPHER K. POTER	
Geosyntec consultants 475 14th Street, Suite 400 Oakland, California 94612 (510) 856-3034 Fax (510) 856-3036		REGISTERED PROFESSIONAL ENGINEER PETER MANGARELLA No. 28072 EXP. 3/21/08 CIVIL STATE OF CALIFORNIA	
REVISIONS		DESCRIPTION	
NO.		BY DATE APPVD	

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

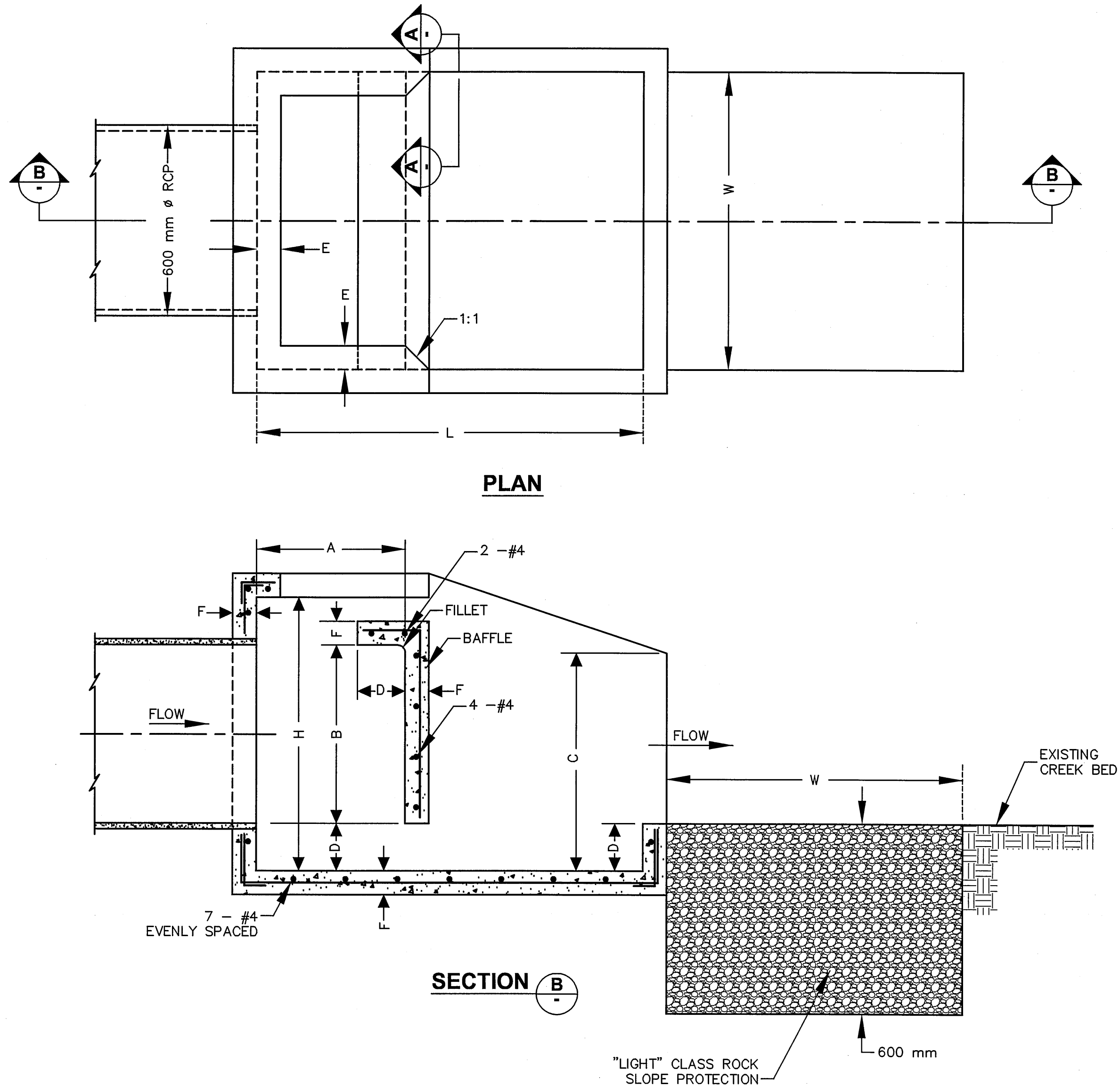


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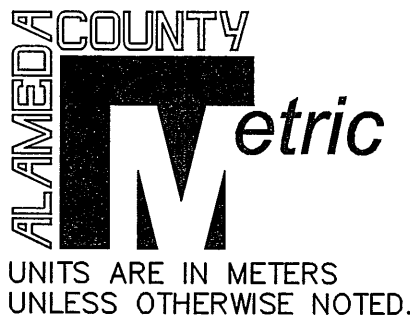
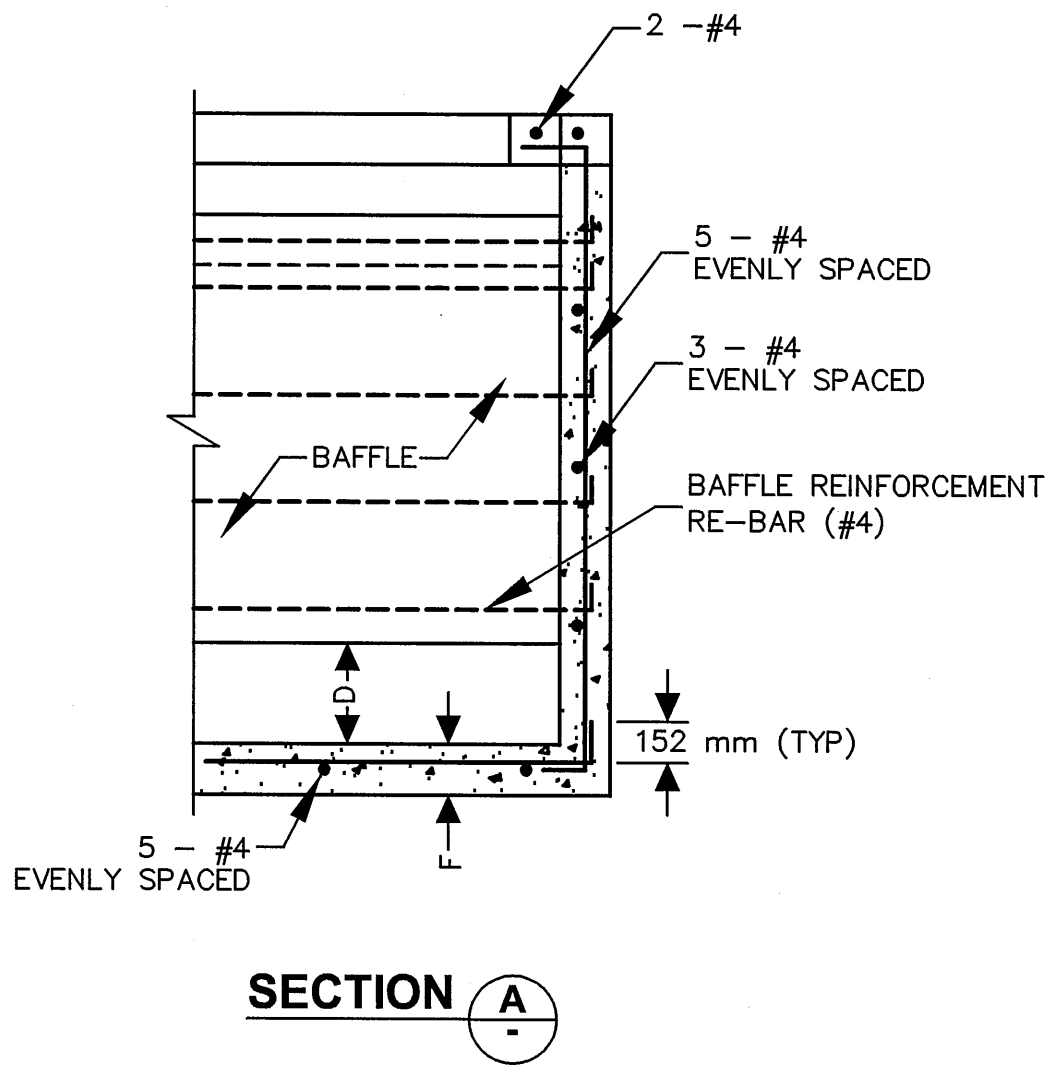
CONSTRUCTION	REVIEWED BY:	DATE:	SURVEY	REVIEWED BY:	DATE:
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

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DIMENSION	W	H	L	A	B	C	D	E	F
mm	1000	1000	1400	500	600	760	190	160	160

IMPACT TYPE ENERGY DISSIPATER 3
NOT TO SCALE



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 WATER QUALITY AND HYDROMODIFICATION BASIN ENERGY DISSIPATER		NO.	
DATE: AUG 2007		BY	
WORK ORDER NO. R23265		DESCRIPTION	
SPECIFICATION NO. 1903		DATE	
SHEET NO. 71 OF 145		BY	
FILE NO. U-357-6		DATE	

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CDS UNIT ASSEMBLY
(CUTAWAY VIEW)
(RIGHT-HANDED UNIT SHOWN)

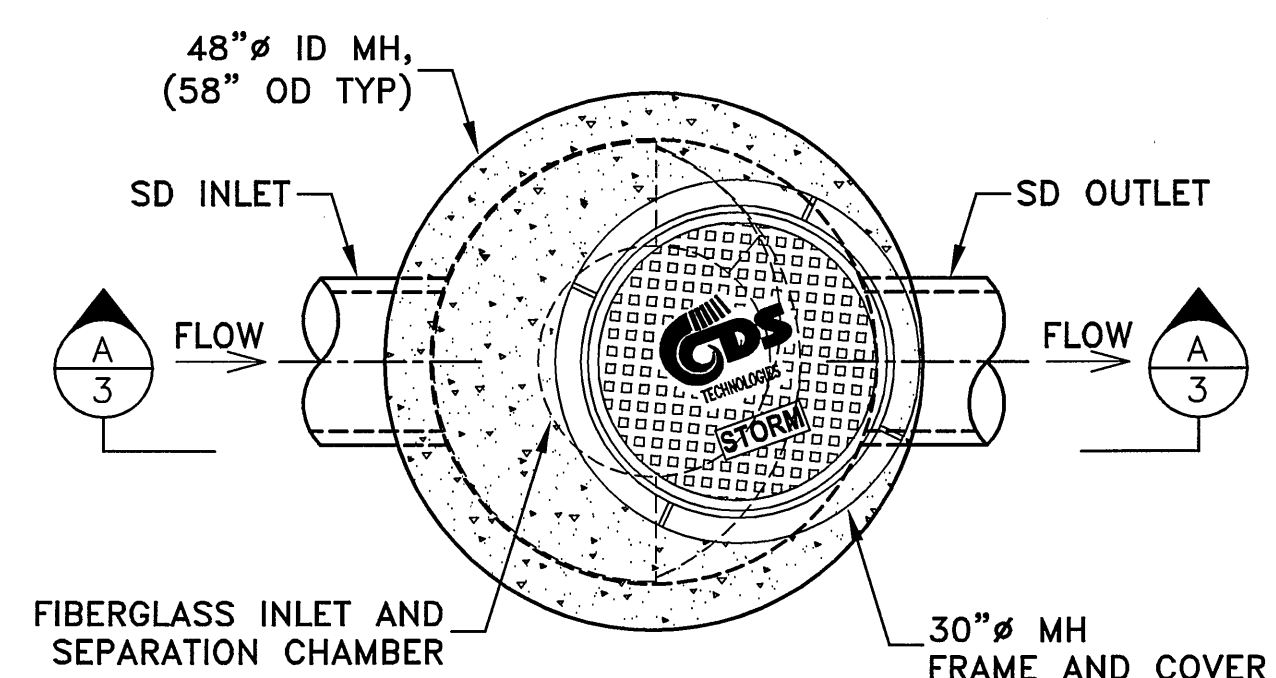
Contractor shall remove all material and debris from the inlet, separation chamber and sump upon completion of installation.

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 STORMWATER TREATMENT UNIT					
WORK ORDER NO.	R23265	DRAWN	APPROVAL RECOMMENDED		
SPECIFICATION NO.	1903	ALEX BAUTISTA	JAMES CHIU		
SHEET NO.	72 OF 145	DESIGNED	APPROVAL RECOMMENDED		
FILE NO.	U-357-6	LARRY JOHANN	APPR & CHECK		
		CHECKED	DATE		
		MOSES TSANG	JAN 2008		
			AS SHOWN		
				NO.	
				DESCRIPTION	
				BY	
				DATE	
				APPR'D	

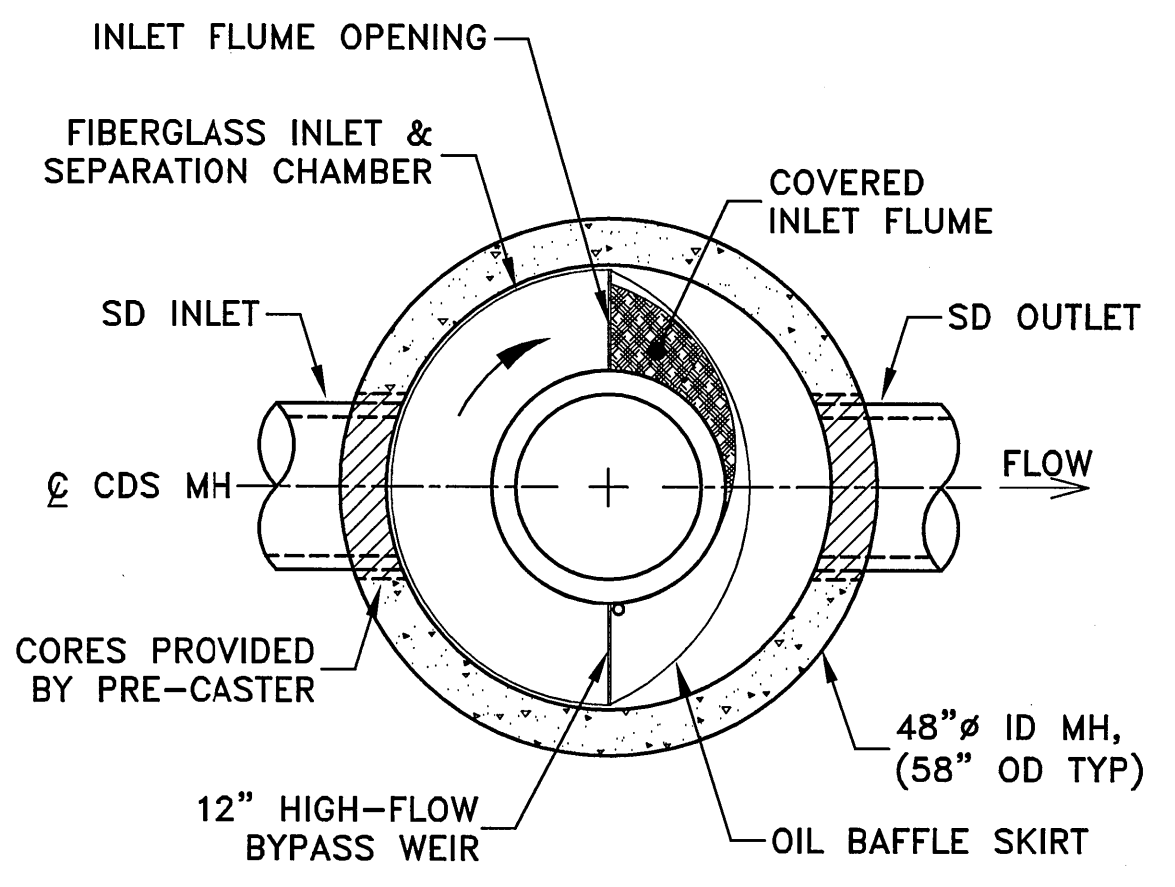
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CONSTRUCTION		SURVEY	
MAINTENANCE		TRAFFIC	
REAL ESTATE		ENVIRONMENTAL	

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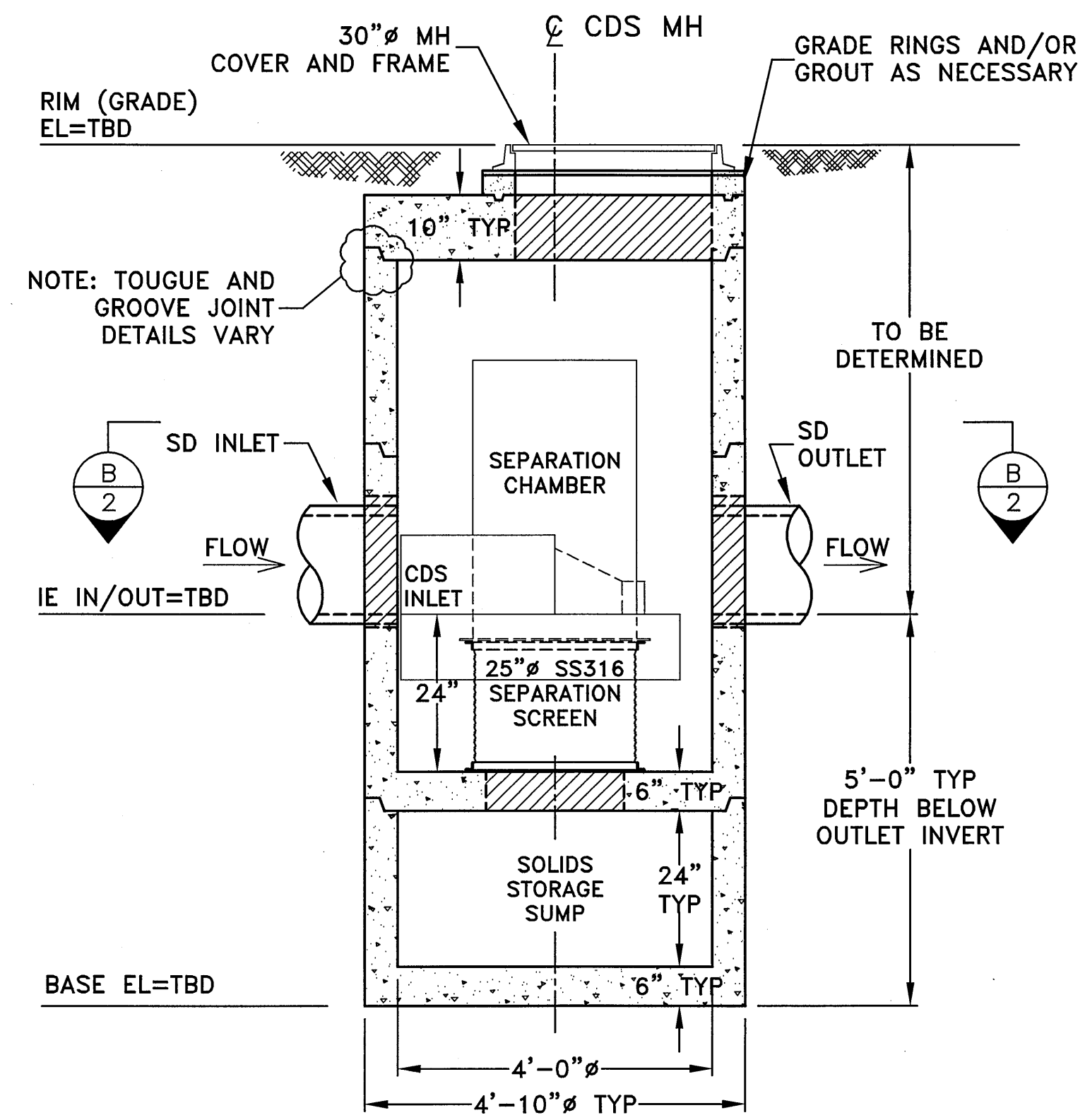
CDS MODEL PMSU20_15_4
STORMWATER TREATMENT UNIT



PLAN VIEW
(SCALE: 1"=18")



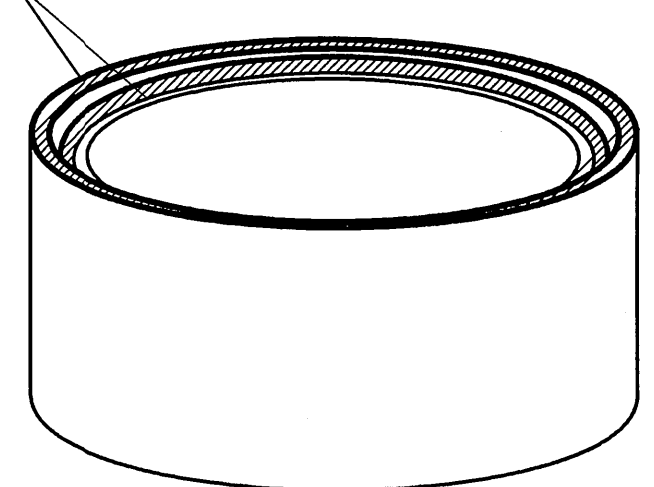
SECTION B-B
(SCALE: 1"=18")



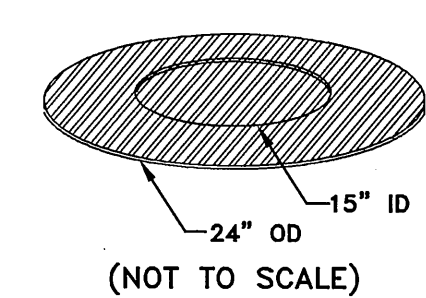
SECTION A-A
ELEVATION VIEW
(SCALE: 1"=18")

INSTALLATION INSTRUCTIONS &
MISCELLANEOUS NOTES
(NOT TO SCALE)

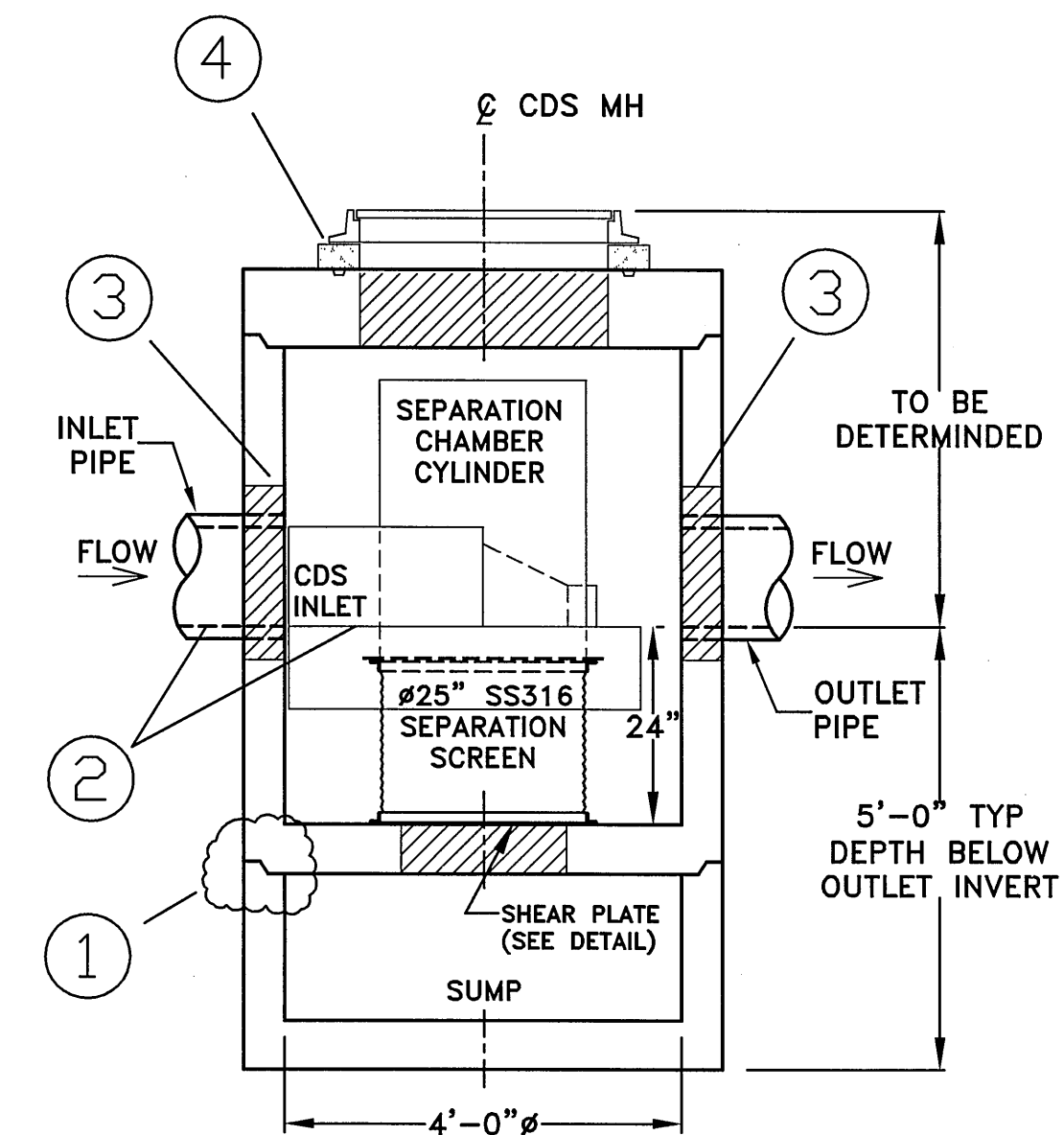
PLACE 2x CONTINUOUS BANDS OF MASTIC ROPE ON VERTICAL AND HORIZONTAL SURFACES OF SUMP (MH BASE) T&G JOINT; GROUT EXTERIOR MH JOINT IF NECESSARY.



HDPE HYDRAULIC SHEAR PLATE



(NOT TO SCALE)



CONSTRUCTION NOTES:

1. APPLY BUTYL MASTIC TO SEAL JOINTS OF MANHOLE STRUCTURE (SEE INSET DETAIL DRAWING); APPLY GROUT TO EXTERIOR T&G JOINTS OF MH SECTIONS TO COMPLETELY SEAL IF NECESSARY (UNIT MUST BE WATER TIGHT, HOLDING WATER UP TO FLOWLINE INVERT, MINIMUM).
2. BEFORE PLACING MORE PRECAST COMPONENTS OR BACKFILLING, ENSURE FIBERGLASS INLET AND PIPE INLET INVERTS MATCH ELEVATIONS (CERTAIN JOBS WILL HAVE INLET PIPE HIGHER THAN FIBERGLASS INLET).
3. GROUT PIPE CONNECTIONS TO SEAL JOINT.
4. USE GRADE RINGS AND/OR GROUT TO MATCH FINISHED GRADE; SEAL AS NECESSARY.

GENERAL NOTES:

- A. CDS UNIT TYPICALLY DELIVERED WITH THE STAINLESS STEEL SCREEN, FIBERGLASS SEPARATION CYLINDER/INLET AND OIL BAFFLE PRE-INSTALLED; FOR FIELD INSTALLATIONS, THE GREEN PAINTED SCREEN FLANGE SHALL FACE UP FOR RIGHT-HANDED UNITS AND RED FLANGE FACES UP FOR LEFT-HANDED CONFIGURATIONS.
- B. HDPE HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING CLEANING.
- C. INSTALL CDS UNIT PER CDS INSTALLATION SPECIFICATIONS.
- D. CONTRACTOR TO BE EQUIPPED TO LIFT THE HEAVIEST SECTION.

PROJECT NAME:

LOCATION:

STORMWATER TREATMENT UNIT
CDS MODEL PMSU20_15_4

REFERENCE INFORMATION AND NOTES:

1. CDS UNIT PRECAST SECTIONS MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
2. RIGHT-HAND UNIT SHOWN - ALSO AVAILABLE IN MIRROR IMAGE OF THAT SHOWN (LEFT-HANDED CONFIGURATION).
3. JOINT AND OTHER SECTION DETAILS PER LOCAL PRECASTERS SPECIFIC MANUFACTURING CAPACITIES. CONTACT CDS FOR LOCAL PRECASTER SPECIFIC DWGS.



NO.	DATE	DESCRIPTION
REVISIONS		
SCALE (FULL SIZE): AS INDICATED		
SCALE (HALF SIZE):		
DRAWN BY:		
DESIGNED BY:		
CHECKED BY:		
ISSUE DATE:		
PROJECT NO.:		
SHEET TITLE:		
PMSU20_15_4		
SHEET NUMBER:		

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

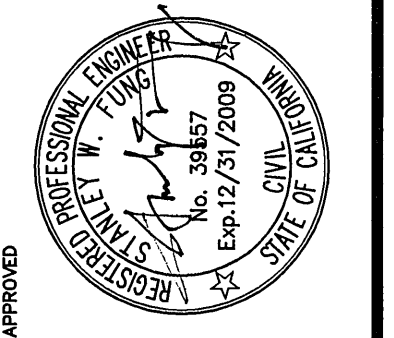
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

STORMWATER TREATMENT UNIT

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	73 OF 145
FILE NO.	U-357-6

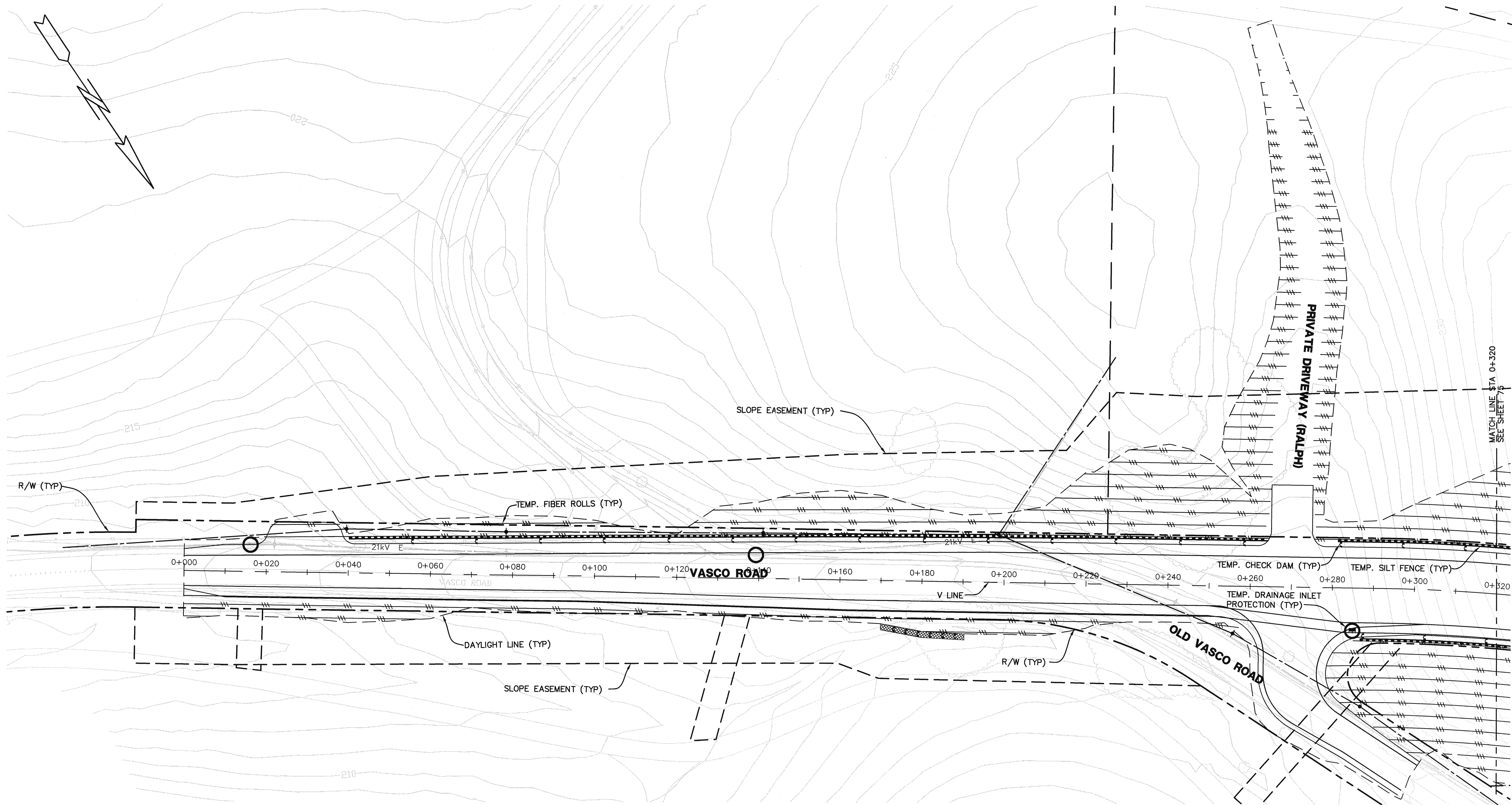
REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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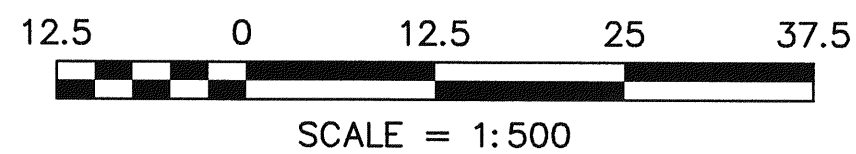
PLAN
1:500

LEGEND:

- TEMPORARY EROSION CONTROL BLANKET PER CALTRANS T54
- TEMPORARY FIBER ROLL PER CALTRANS NSP H51 & T56
- TEMPORARY CHECK DAM PER CALTRANS T57 (DIRECTION OF FLOW)
- TEMPORARY SILT FENCE PER CALTRANS T51
- TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1, 3A, 4A, & 5) PER CALTRANS

NOTES:

1. AREAS RECEIVING EROSION CONTROL BLANKET WILL ALSO RECEIVE HYDROSEEDING.
2. THIS SHEET ACCURATE FOR TEMPORARY WATER POLLUTION CONTROL ONLY.
3. TEMPORARY WATER POLLUTION CONTROL MEASURES MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY RESIDENT ENGINEER.



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

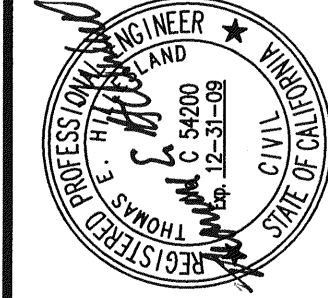
**THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
TEMPORARY WATER POLLUTION
CONTROL PLANS**

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	74 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238



DESIGNED:	DRAWN:
STANLEY W. FONG	N. KOSANUSH
APPROVED:	CHECKED:
T. MUELLER	THOMAS C. HARRIS

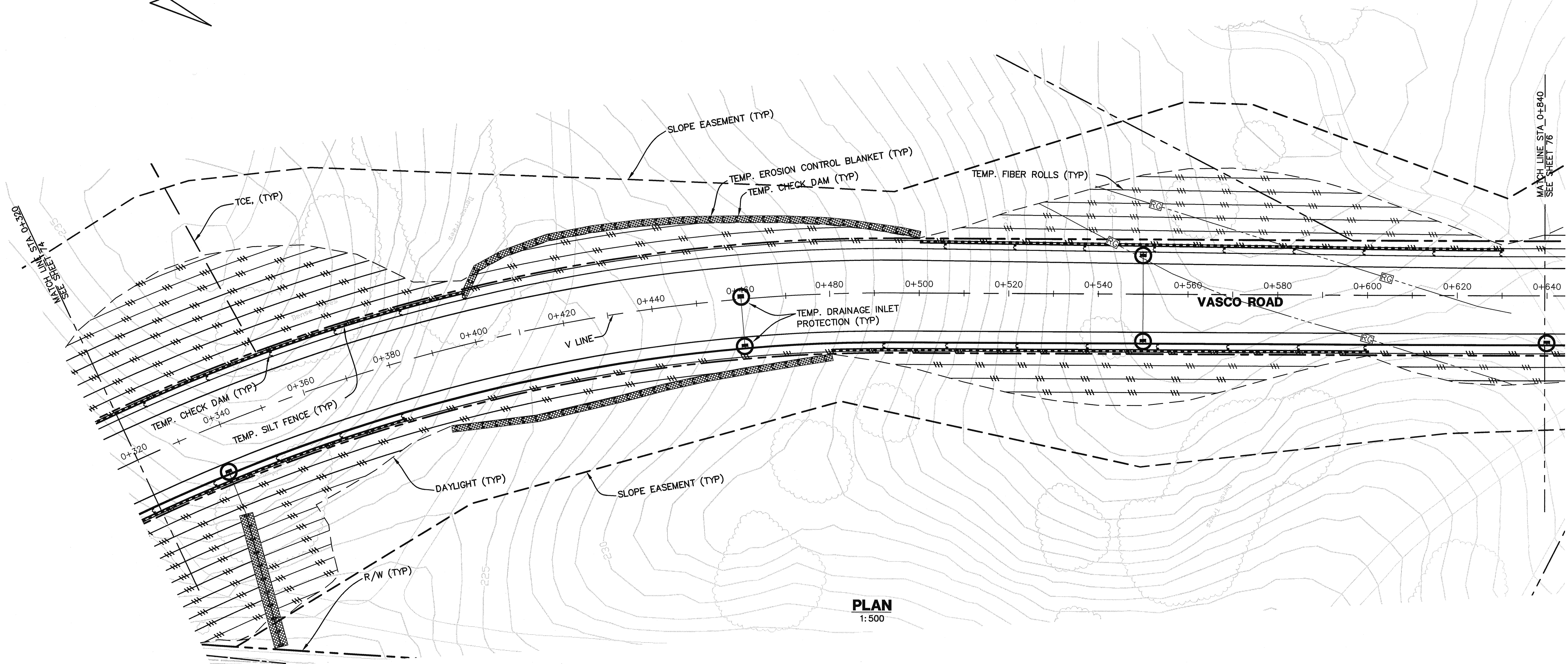
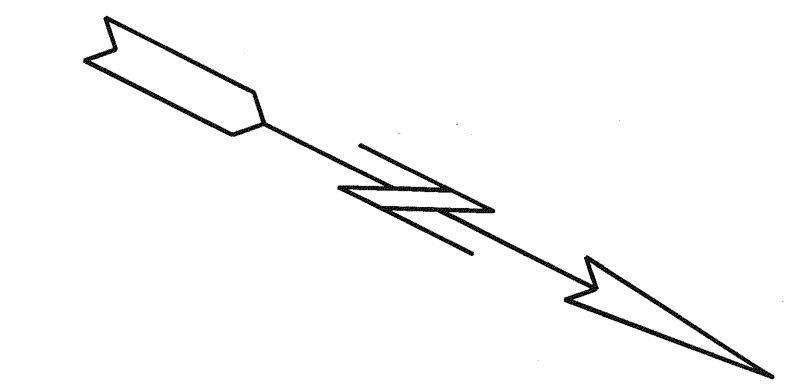


REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED

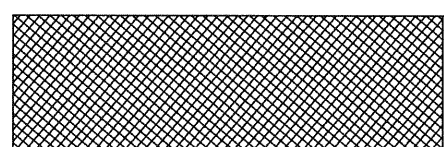
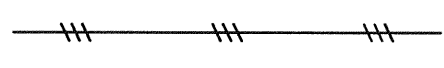
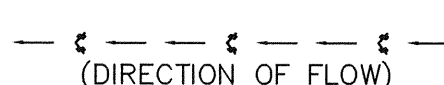
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MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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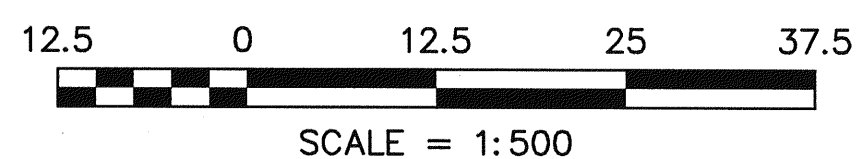
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LEGEND:

-  TEMPORARY EROSION CONTROL BLANKET PER CALTRANS T54
-  TEMPORARY FIBER ROLL PER CALTRANS NSP H51 & T56
-  TEMPORARY CHECK DAM PER CALTRANS T57
-  TEMPORARY SILT FENCE PER CALTRANS T51
-  TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1, 3A, 4A, & 5) PER CALTRANS

NOTES:

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ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

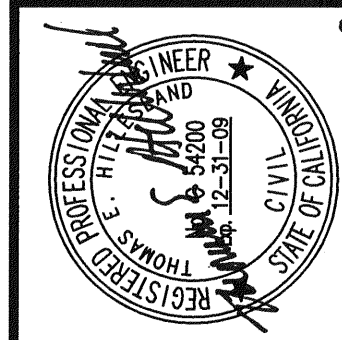
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
TEMPORARY WATER POLLUTION
CONTROL PLANS

DATE: JAN 2008 SCALE: AS SHOWN
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 75 OF 145
FILE NO.: U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 846-1238

Moffatt & Nichol

DRAWN: N. KOBAYASHI
DESIGNED: S. HO
CHECKED: T. HILLMAN
APPROVED: B. ZWEN

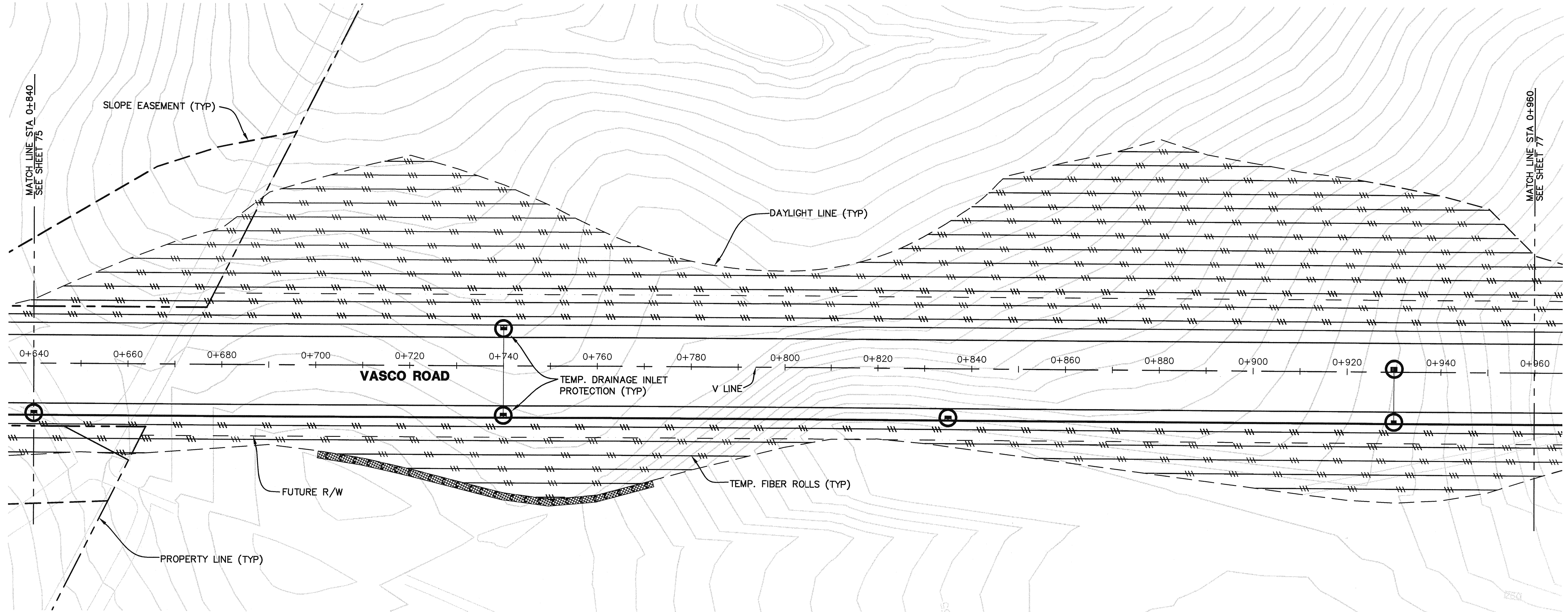
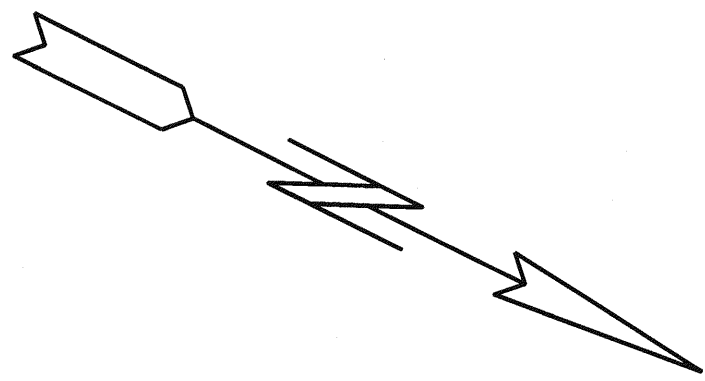


REVISIONS

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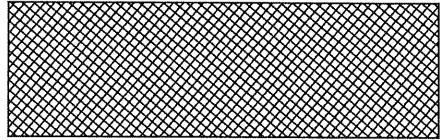
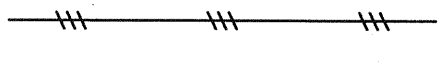
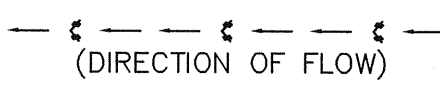
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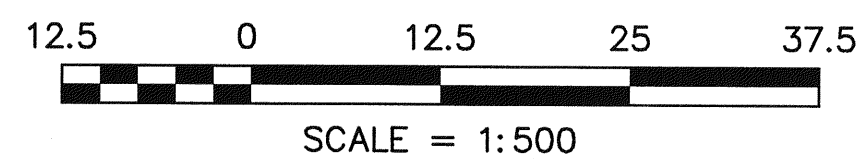
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LEGEND:

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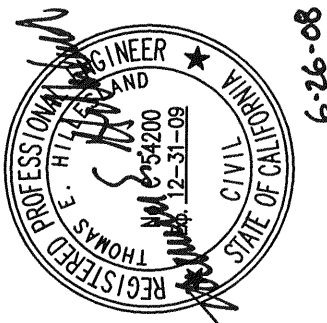
- AREAS RECEIVING EROSION CONTROL BLANKET WILL ALSO RECEIVE HYDROSEEDING.
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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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5				



1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238

Moffatt & Nichol

REVIEWED: 
DATE: JAN 2008
SCALE: AS SHOWN
WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 76 OF 145
FILE NO. U-357-6

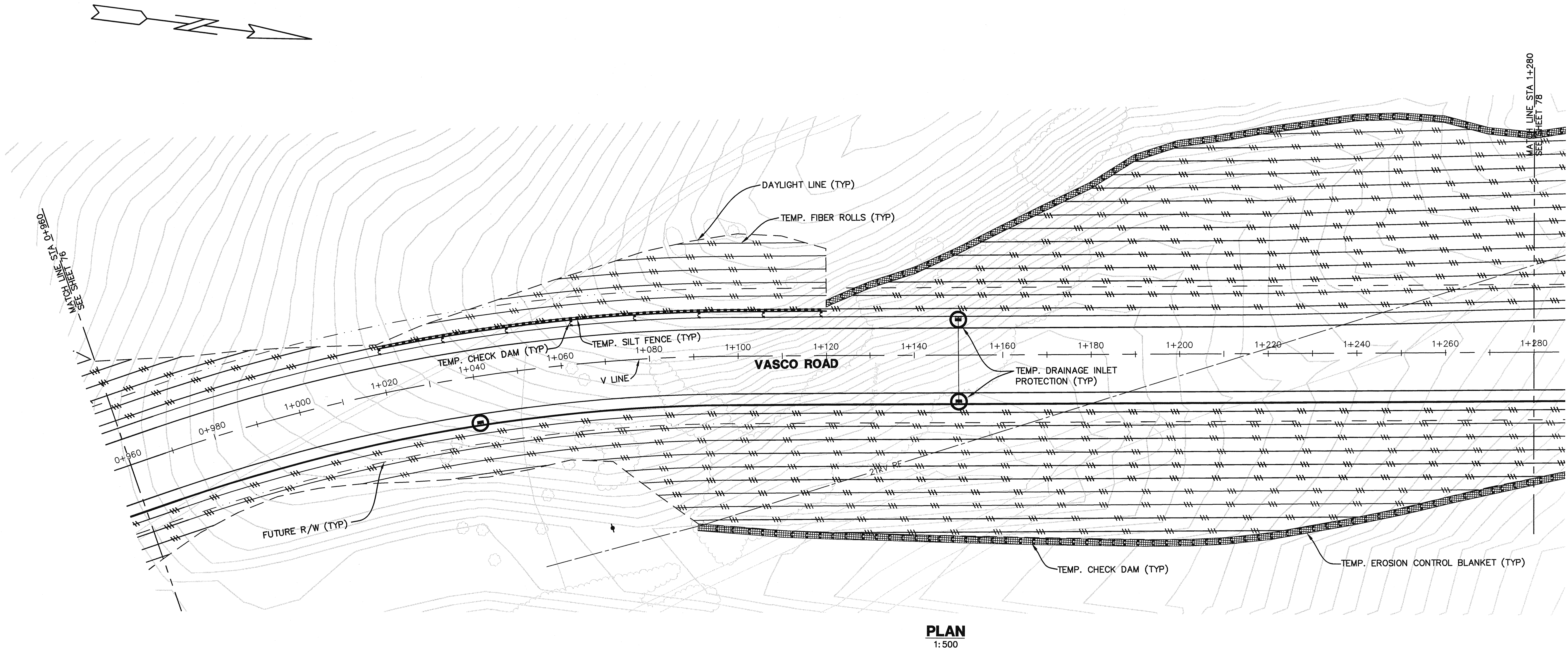
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

**THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
TEMPORARY WATER POLLUTION
CONTROL PLANS**

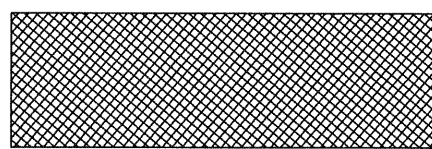
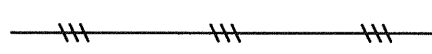
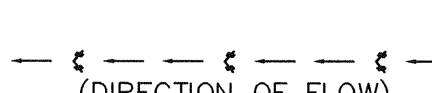
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SCALE: AS SHOWN
WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 76 OF 145
FILE NO. U-357-6

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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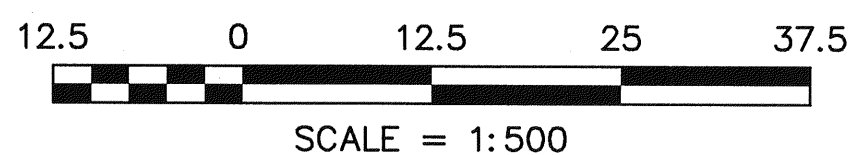


LEGEND:

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-  TEMPORARY FIBER ROLL PER CALTRANS NSP H51 & T56
-  TEMPORARY CHECK DAM PER CALTRANS T57
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ALAMEDA COUNTY
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COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY WATER POLLUTION CONTROL PLANS

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	77 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 646-1238

Moffatt & Nichol

REVIEWED BY: <i>[Signature]</i>	DESIGNED BY: <i>[Signature]</i>
REVIEWED BY: <i>[Signature]</i>	DESIGNED BY: <i>[Signature]</i>
REVIEWED BY: <i>[Signature]</i>	DESIGNED BY: <i>[Signature]</i>

APPROVED BY: *[Signature]*

APPROVED BY: *[Signature]*

APPROVED BY: *[Signature]*

APPROVED BY: *[Signature]*

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APPROVED BY: *[Signature]*

APPROVED BY: *[Signature]*

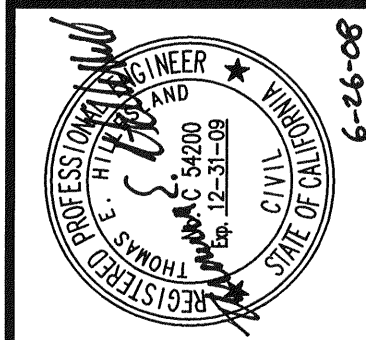
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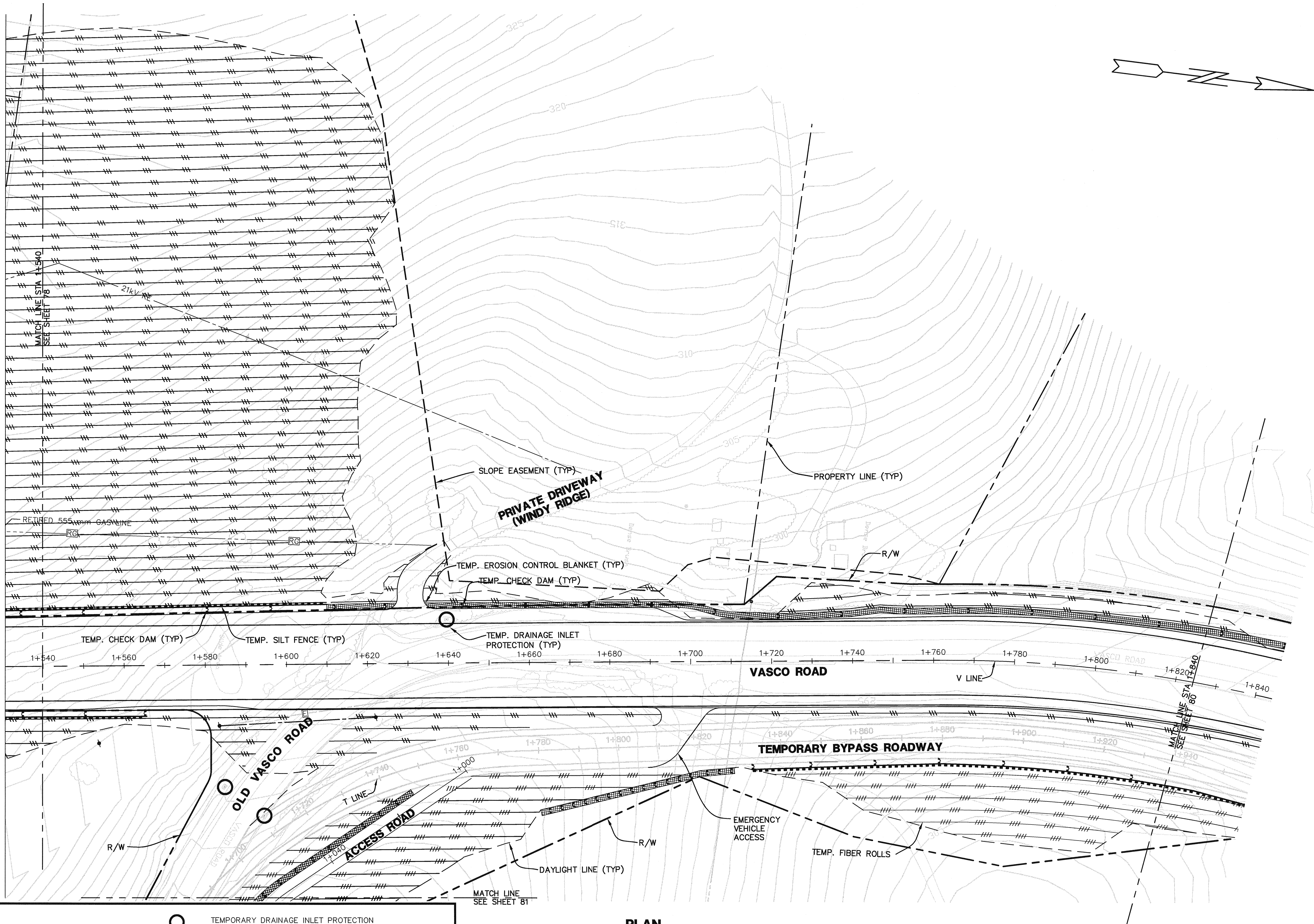
REVISIONS

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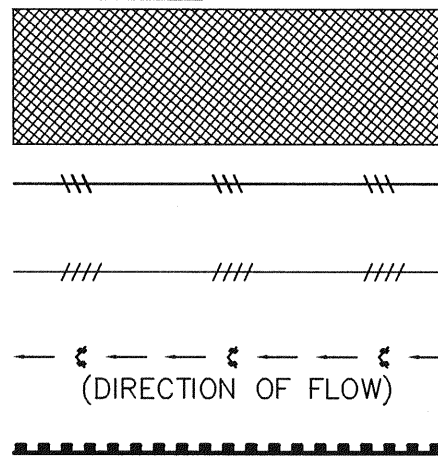


CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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LEGEND:



TEMPORARY EROSION CONTROL BLANKET PER CALTRANS T54

TEMPORARY FIBER ROLL (VASCO RD.) PER CALTRANS NSP H51 & T56

TEMPORARY FIBER ROLL (BYPASS RD.) PER CALTRANS NSP H51 & T56

TEMPORARY CHECK DAM PER CALTRANS T57

TEMPORARY SILT FENCE PER CALTRANS T51

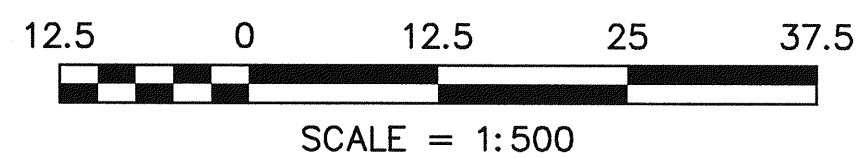


TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1, 3A, 4A, & 5) PER CALTRANS

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PLAN
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ALAMEDA COUNTY
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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

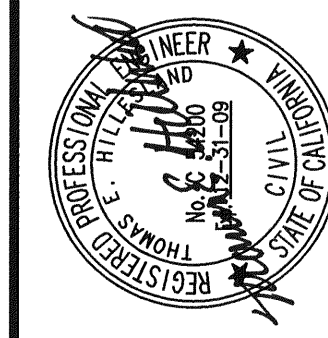
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
TEMPORARY WATER POLLUTION
CONTROL PLANS

DATE: JAN 2008 SCALE: AS SHOWN
WORK ORDER NO. R23265
SPECIFICATION NO. 1903
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FILE NO. U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238

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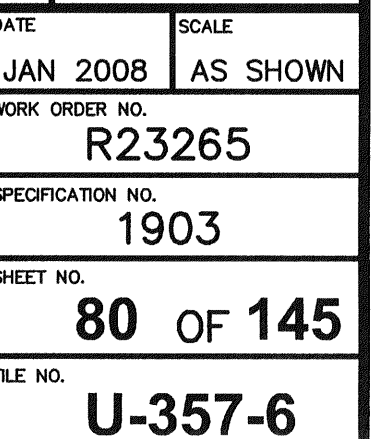
DRAWN: M. KOBAYASHI
CHECKED: T. HILLESAND
DESIGNED: B. ZAENI
APPROVED: S. HO



REVISIONS

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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
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LEGEND:

TEMPORARY EROSION CONTROL BLANKET PER CALTRANS T54

TEMPORARY FIBER ROLL PER CALTRANS NSP H51 & T56

TEMPORARY FIBER ROLL (BYPASS RD.) PER CALTRANS NSP H51 & T56

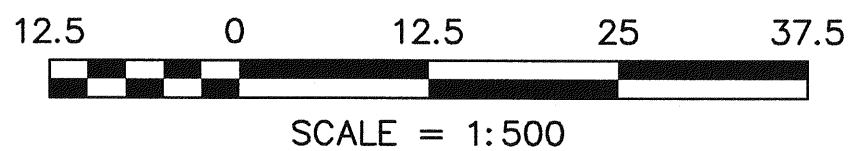
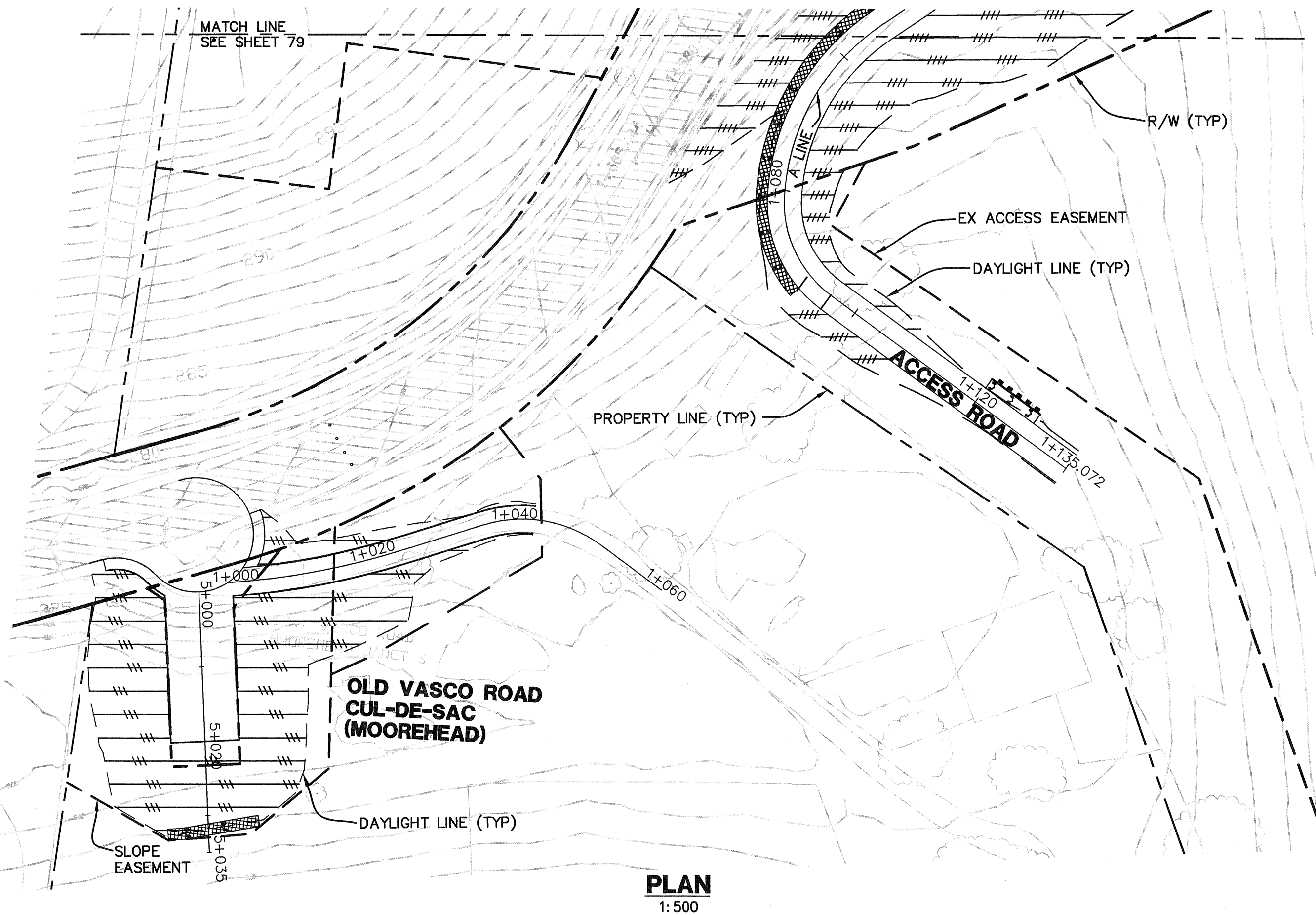
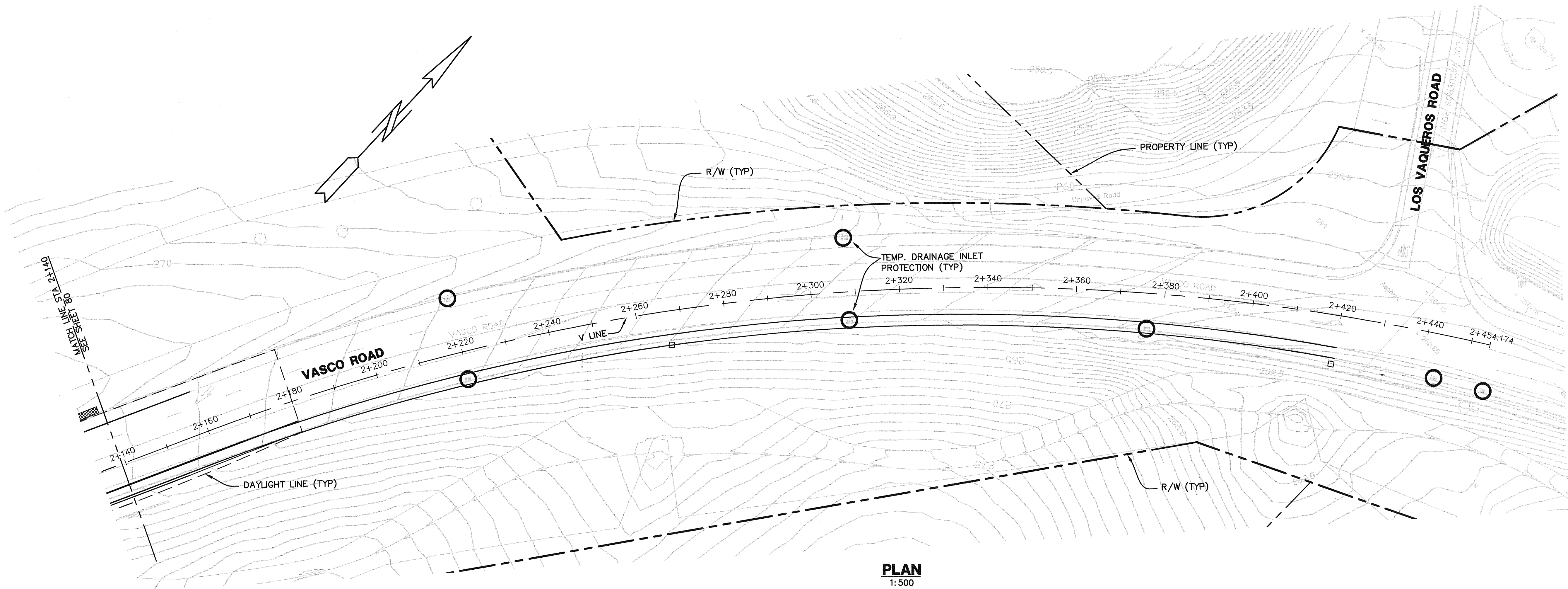
TEMPORARY CHECK DAM PER CALTRANS T57 (DIRECTION OF FLOW)

TEMPORARY SILT FENCE PER CALTRANS T51

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1, 3A, 4A, & 5) PER CALTRANS

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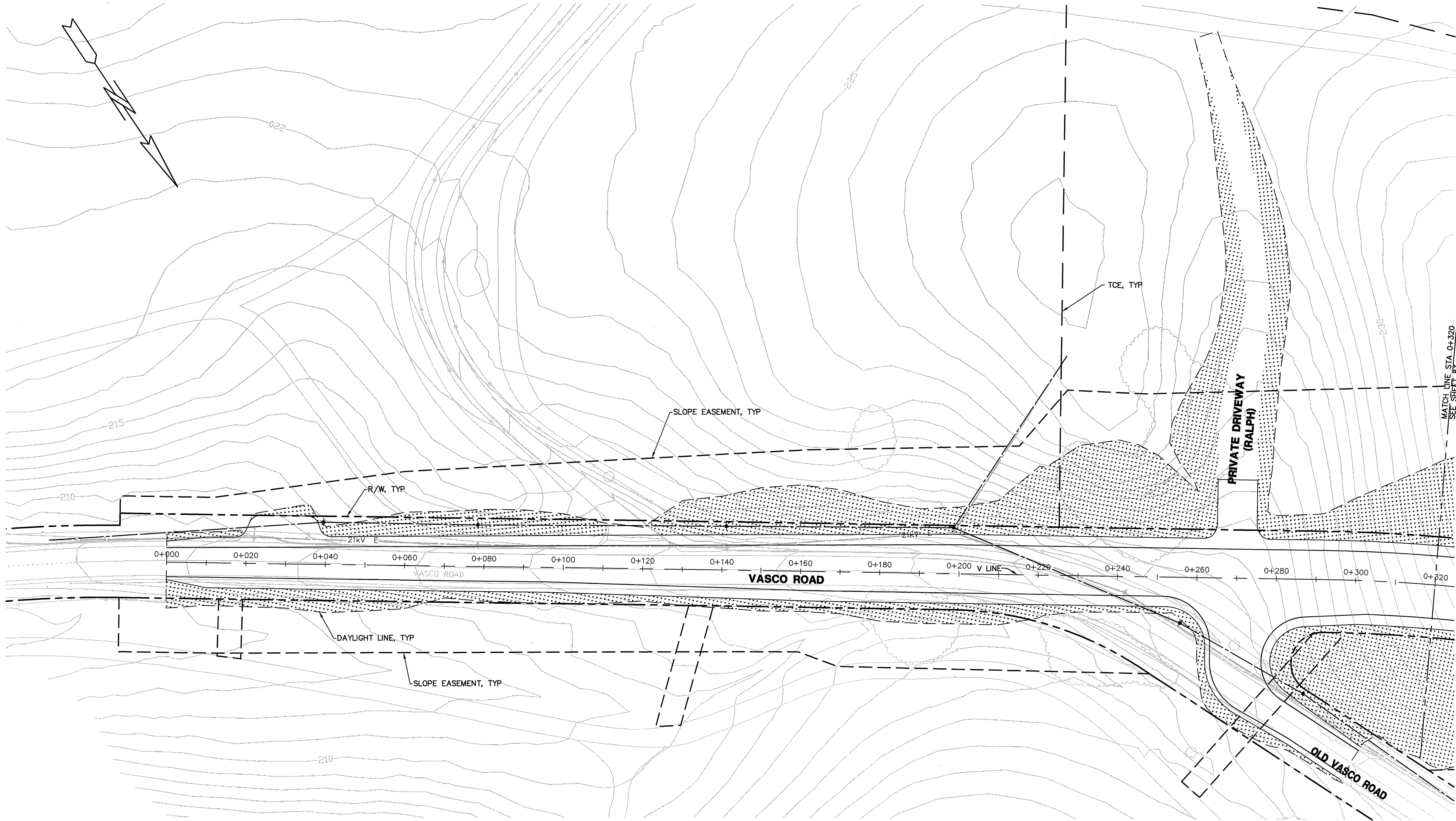


ALAMEDA COUNTY
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COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY		REVIEWED: DATE: JAN 2008 SCALE: AS SHOWN																										
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 TEMPORARY WATER POLLUTION CONTROL PLANS		WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 81 OF 145 FILE NO. U-357-6																										
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288 Moffatt & Nichol		CHECKED: T. HILLESAND APPROVED: B. ZAHN DRAWN: M. KOSYVISH DESIGNED: S. HO																										
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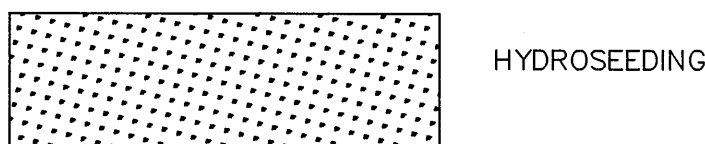
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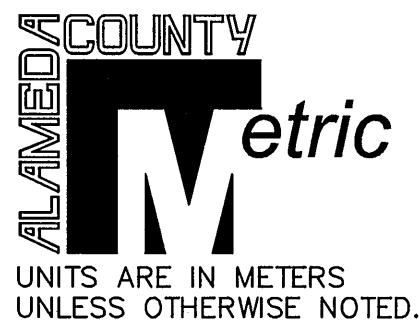
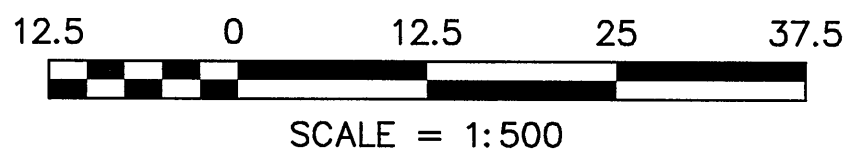
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HYDROSEEDING

NOTES:

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COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

EROSION CONTROL PLANS

DATE	SCALE
JAN 2008	AS SHOWN
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SHEET NO.	82 OF 145
FILE NO.	U-357-6



1300 CLAY STREET, SUITE 550
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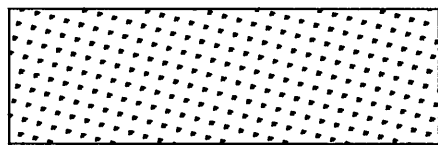
DRAWN: N. KUBAYASHI
DESIGNED: S. HO

CHECKED: T. HILLISAND
APPROVED: S. ZENI

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
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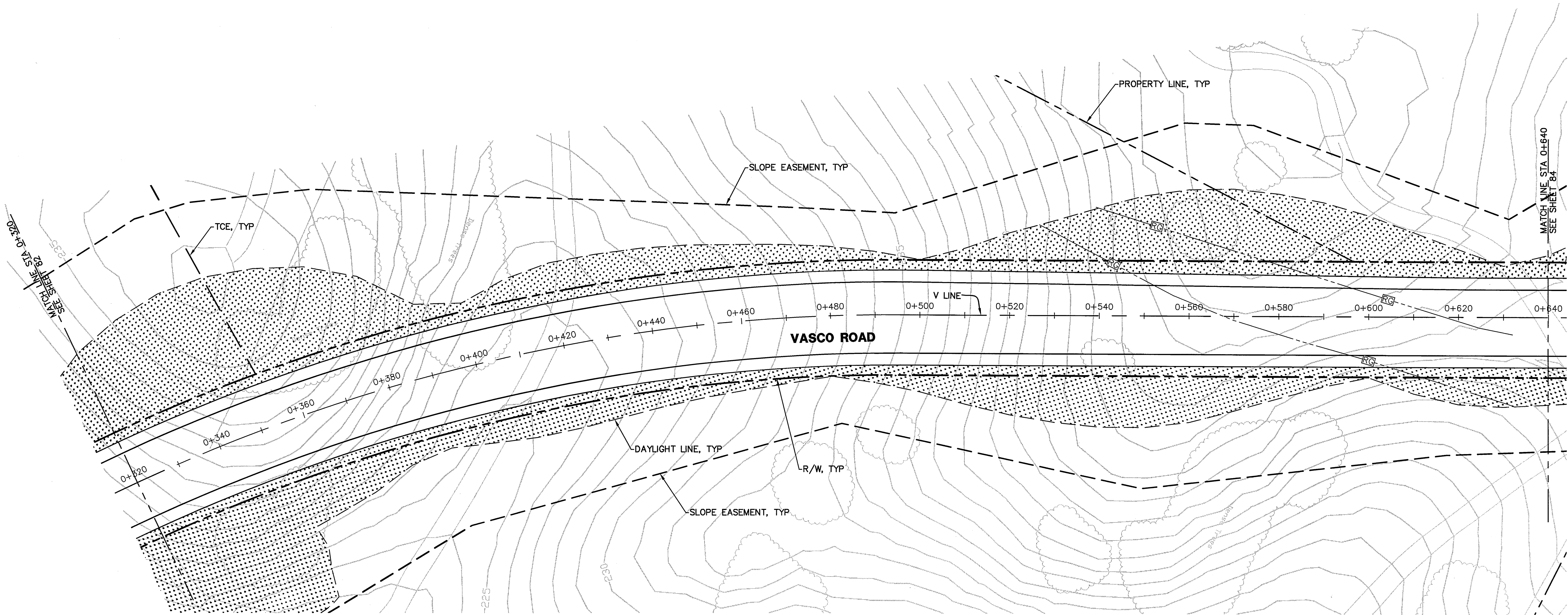
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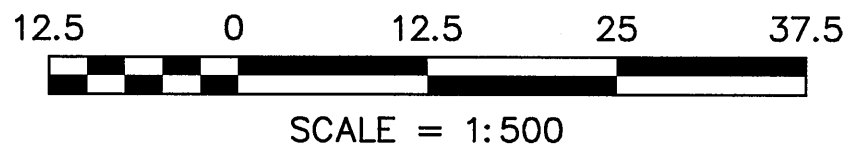
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PLAN
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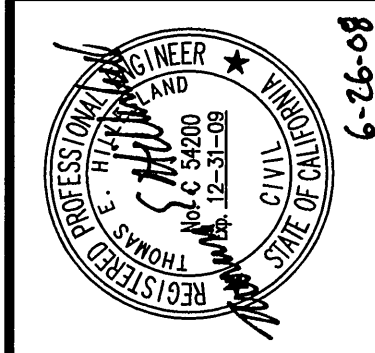
ALAMEDA COUNTY
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COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

EROSION CONTROL PLANS

DATE	JAN 2008	SCALE	AS SHOWN
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SPECIFICATION NO.	1903		
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FILE NO.	U-357-6		



1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238

Moffatt & Nichol

REVIEWED: *[Signature]*
BOND NO. *[Signature]*
REVIEWED: *[Signature]*
APPROVAL RECOMMENDED: *[Signature]*

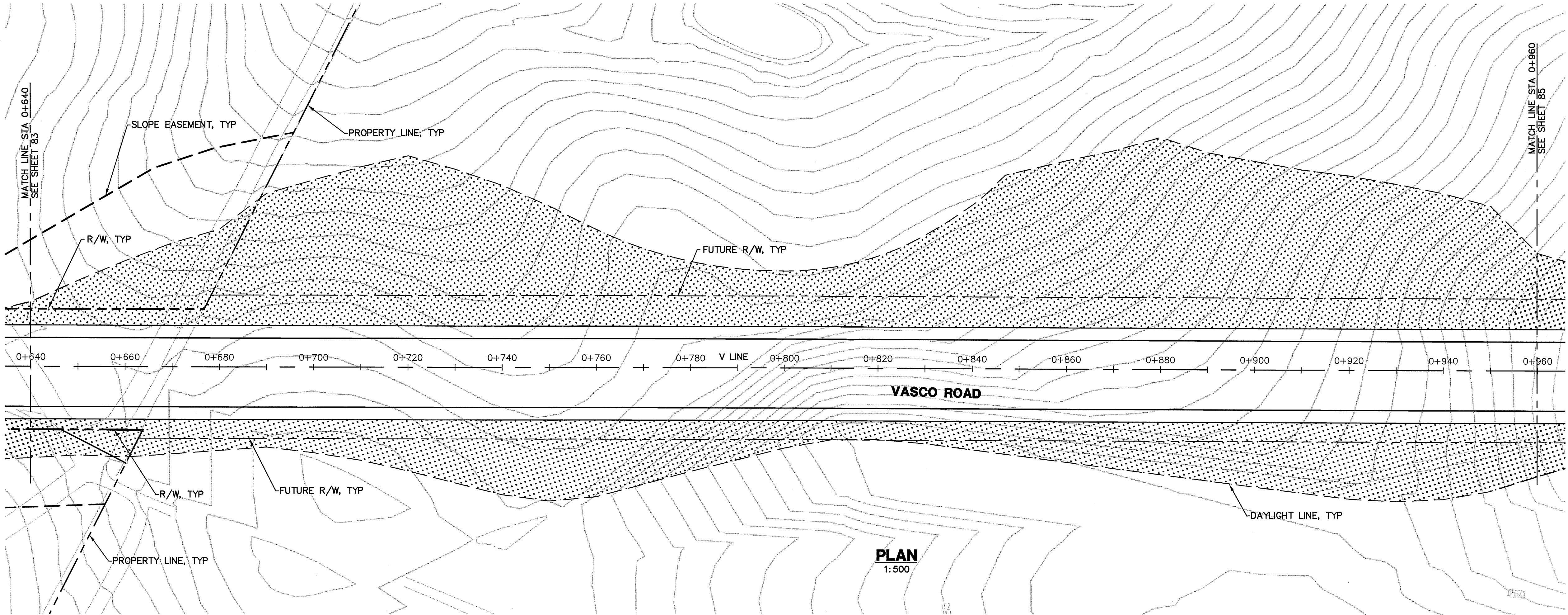
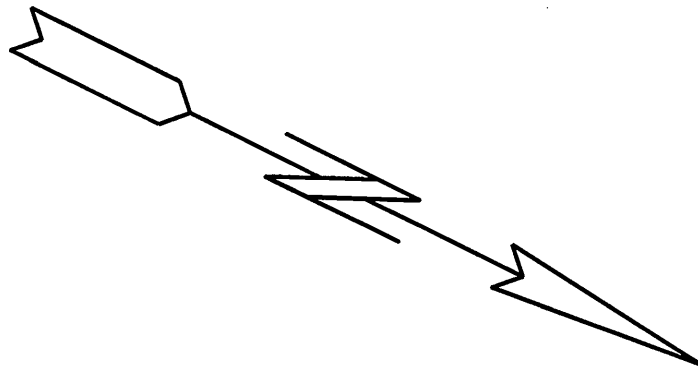
DESIGNED: N. KOBAYASHI
DRAWN: S. HO
CHECKED: T. HILLBRAND
APPROVED: B. ZEN

REVISIONS

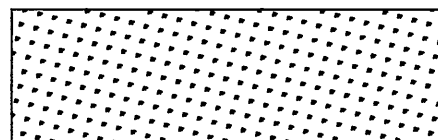
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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
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REAL ESTATE				

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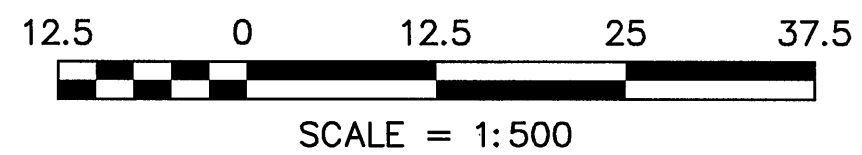
LEGEND:



HYDROSEEDING

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FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



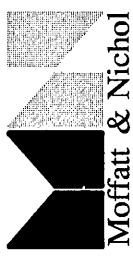
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

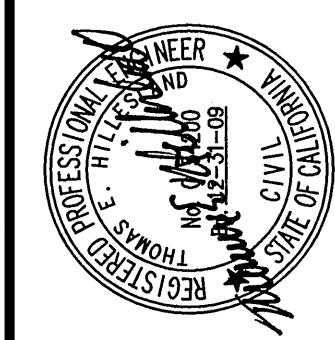
EROSION CONTROL PLANS

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	84 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238



DRAWN:	CHECKED:
M. KOSKUNEN	T. WILLESAND
DESIGNED:	APPROVED:
S. HO	B. ZAHN

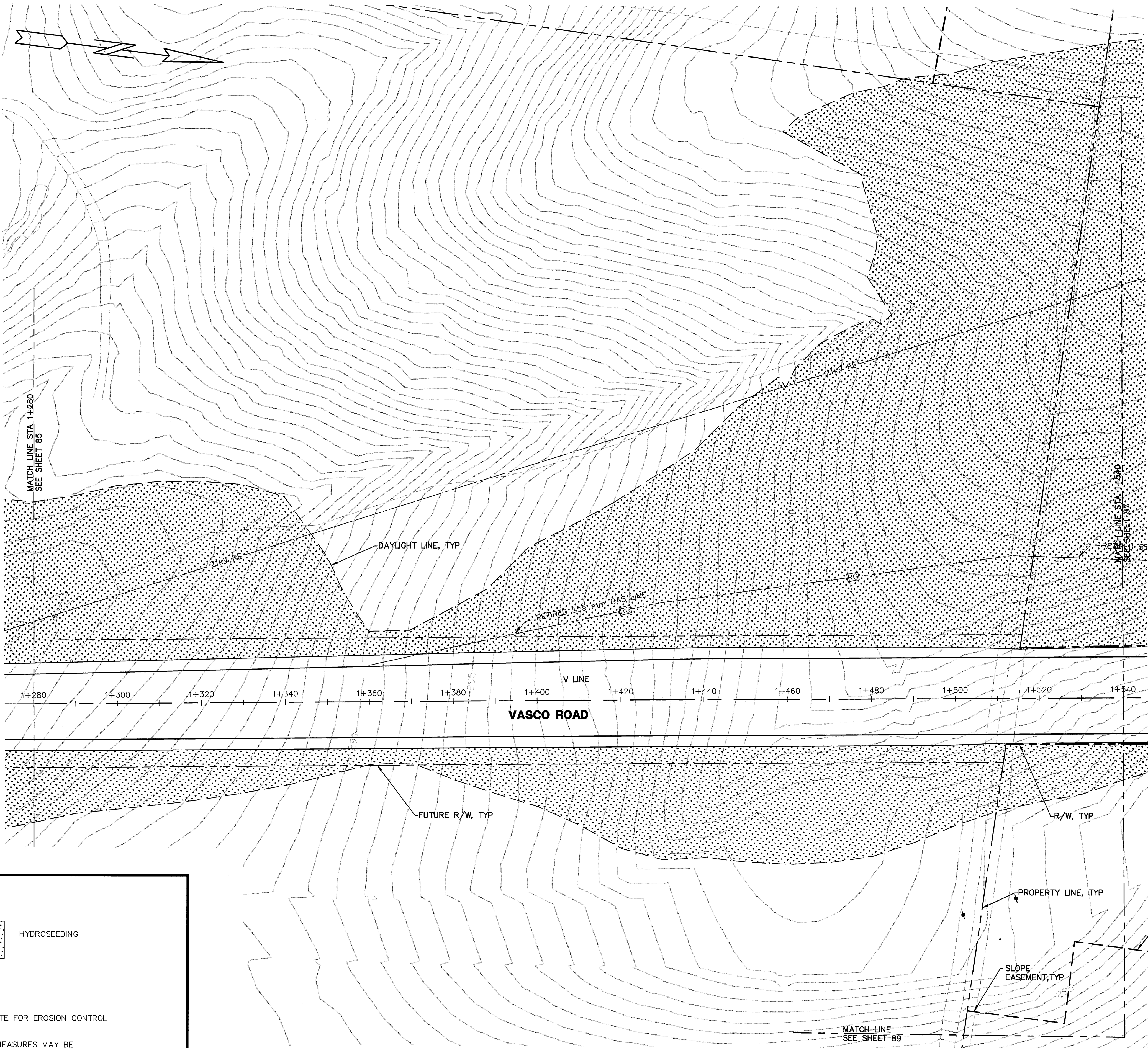


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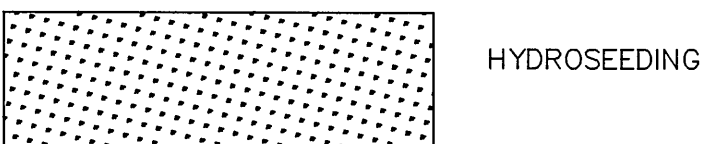
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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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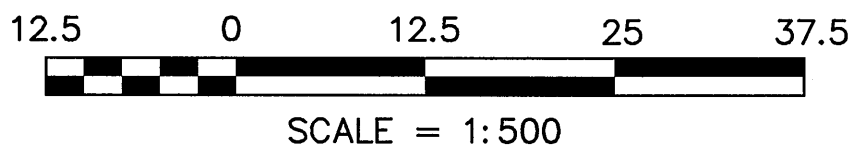


HYDROSEEDING

NOTES:

- THIS SHEET ACCURATE FOR EROSION CONTROL ONLY.
- EROSION CONTROL MEASURES MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY RESIDENT ENGINEER.

PLAN
1:500



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

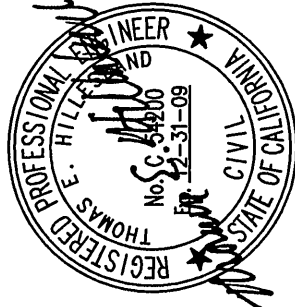
EROSION CONTROL PLANS

DATE	JAN 2008	SCALE	AS SHOWN
WORK ORDER NO.	R23265		
SPECIFICATION NO.	1903		
SHEET NO.	86	OF	145
FILE NO.	U-357-6		

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238



DRAWN:	DESIGNED:	CHECKED:
N. KOBAYASHI	S. HO	T. HILSLAND
APPROVED:	DESIGNED:	CHECKED:
STANLEY W. KING	S. HO	B. ZEIN



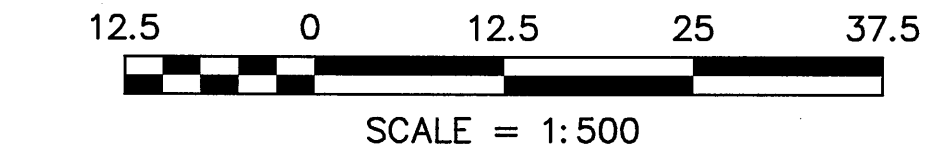
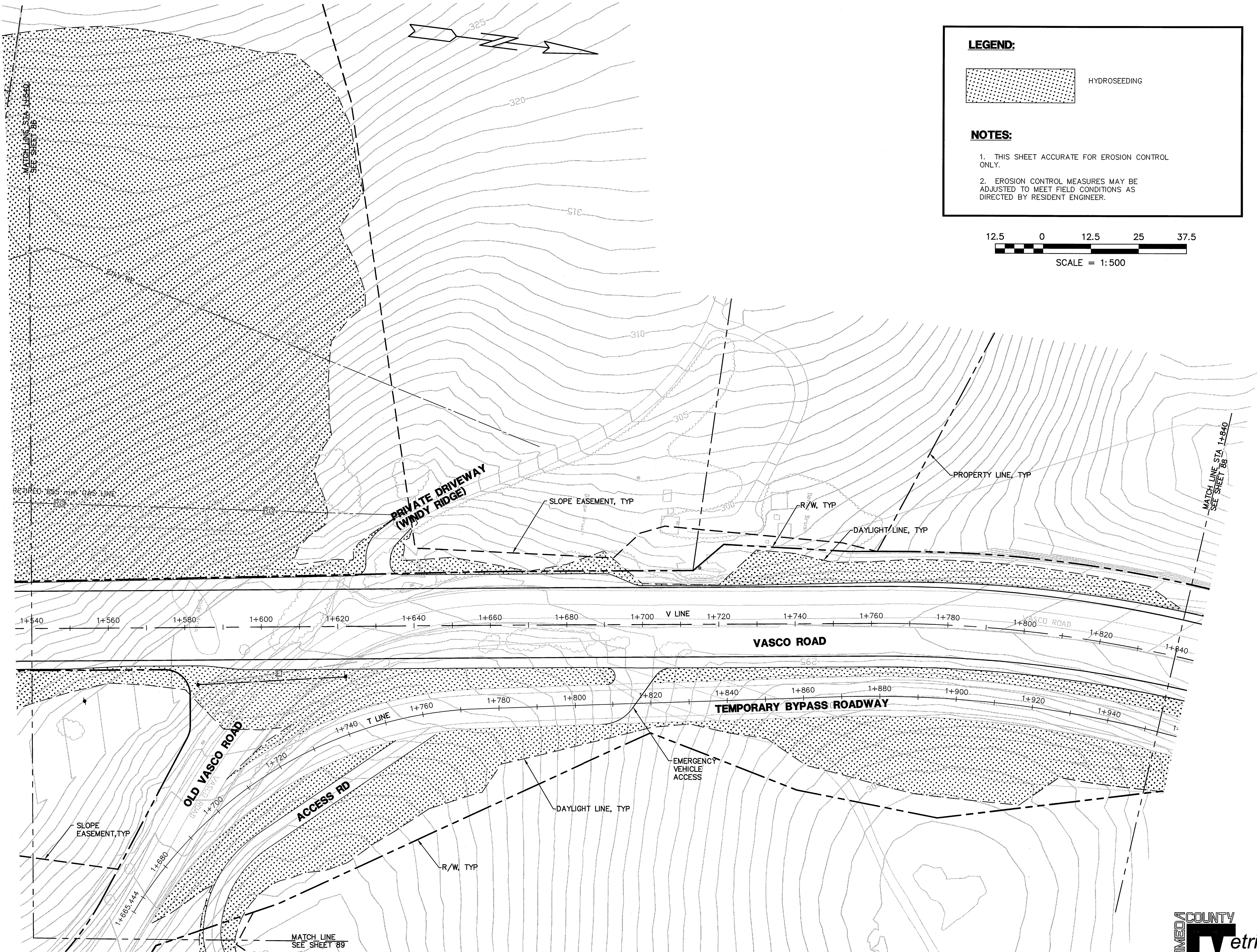
REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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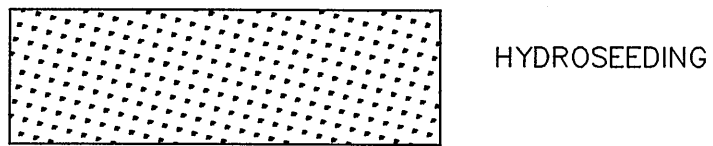
6-26-08

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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LEGEND:



NOTES:

1. THIS SHEET ACCURATE FOR EROSION CONTROL ONLY.
2. EROSION CONTROL MEASURES MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY RESIDENT ENGINEER.

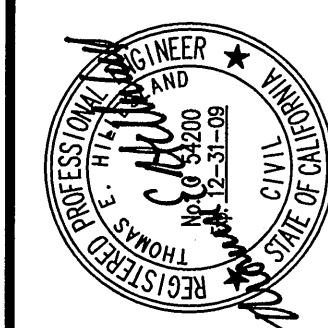
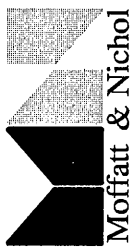
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

EROSION CONTROL PLANS

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	87 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 646-1238



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED
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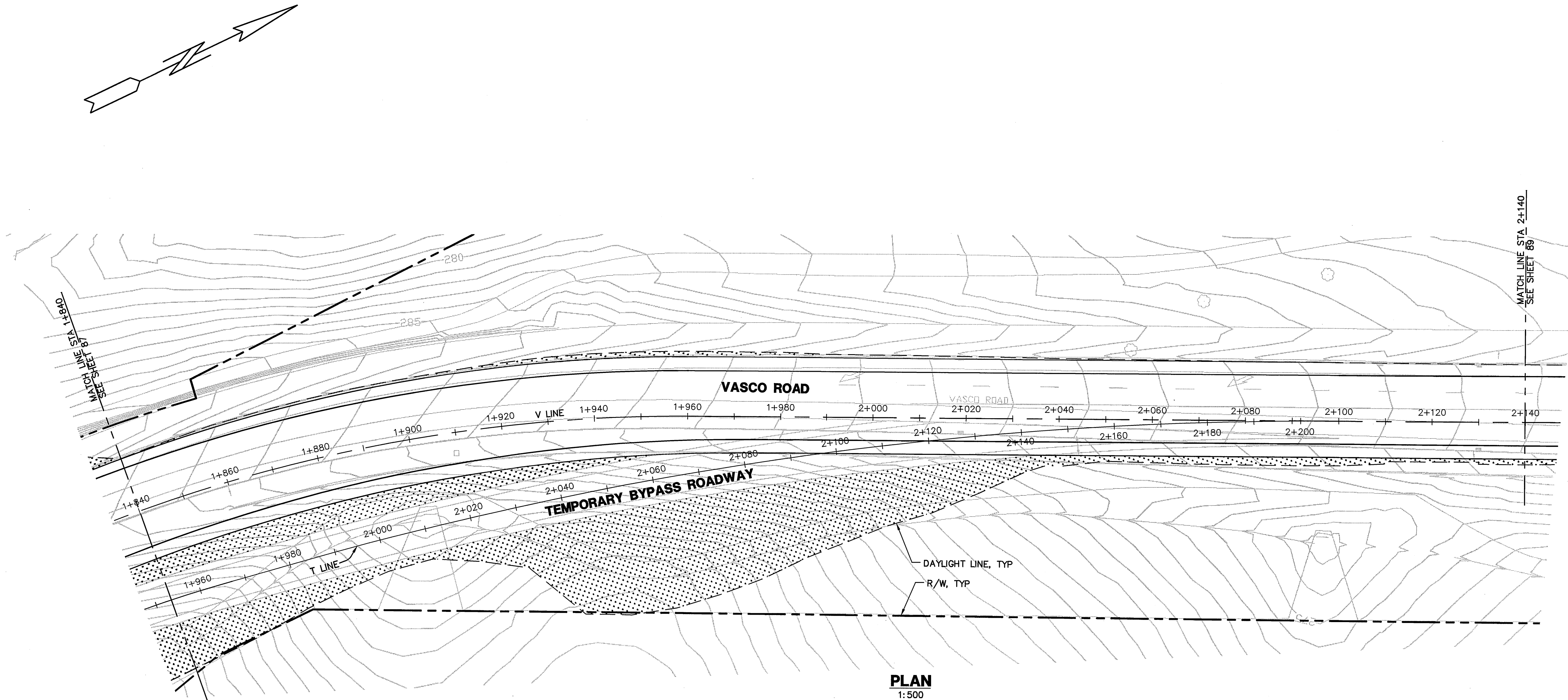
PLAN
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FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



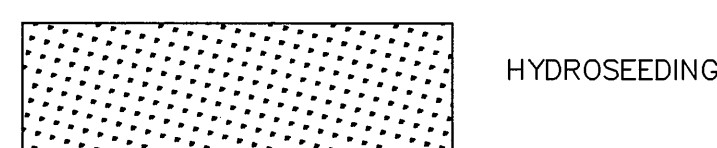
CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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PLAN
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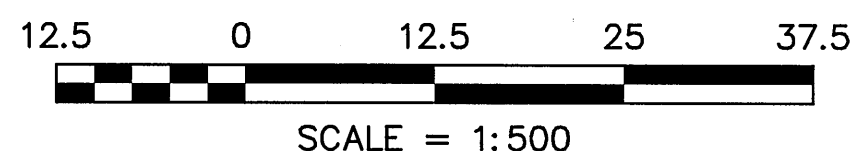
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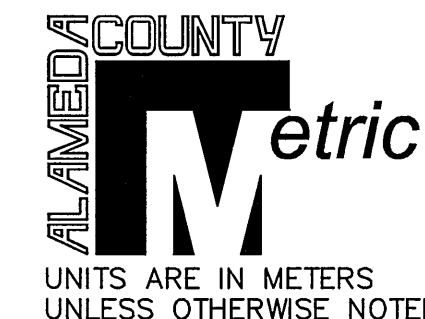
HYDROSEEDING

NOTES:

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FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



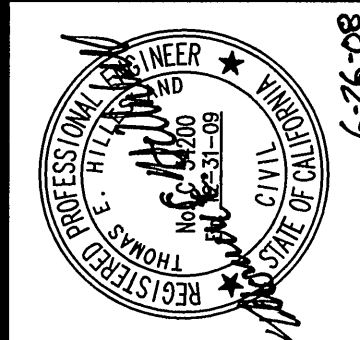
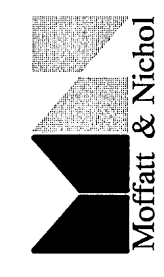
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

EROSION CONTROL PLANS

DATE	JAN 2008	SCALE	AS SHOWN
WORK ORDER NO.	R23265		
SPECIFICATION NO.	1903		
SHEET NO.	88	OF	145
FILE NO.	U-357-6		

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 846-1238

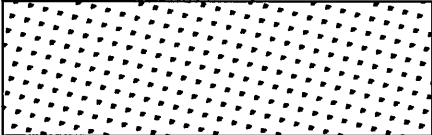


REVISIONS	NO.	DESCRIPTION	BY	DATE	APPROVED

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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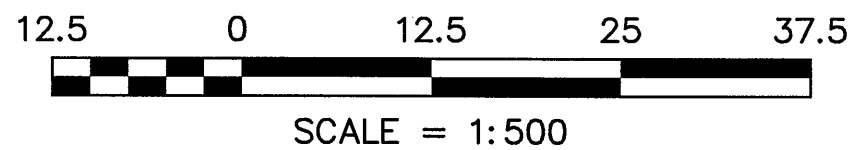
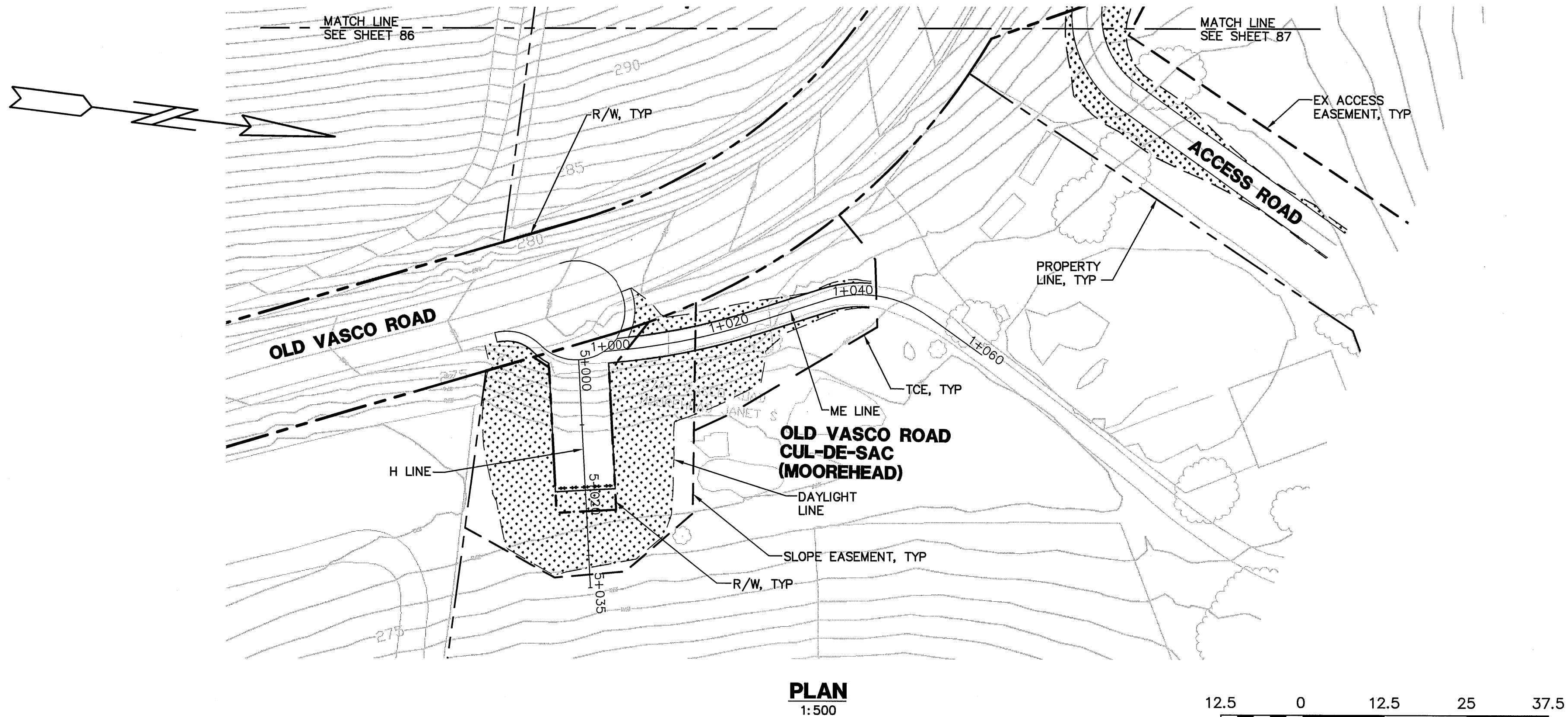
LEGEND:

HYDROSEEDING

NOTES:

1. THIS SHEET ACCURATE FOR EROSION CONTROL ONLY.

2. EROSION CONTROL MEASURES MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY RESIDENT ENGINEER.



FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

**THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3**

EROSION CONTROL PLANS

DATE: JAN 2008
WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 89 OF 145
FILE NO. U-357-6

SCALE: AS SHOWN

REVIEWED: BOND 65
REVIEWED: JAMES GALT
REVIEWED: JAMES GALT
APPROVAL RECOMMENDED: STANLEY W. FUNG

DESIGNED: N. LOBAYASHI
DRAWN: N. LOBAYASHI
CHECKED: T. HILLESAND
APPROVED: B. ZASIN

1900 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238

Moffatt & Nichol

REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
No. 52400
Exp. 12-31-2010

6-26-08

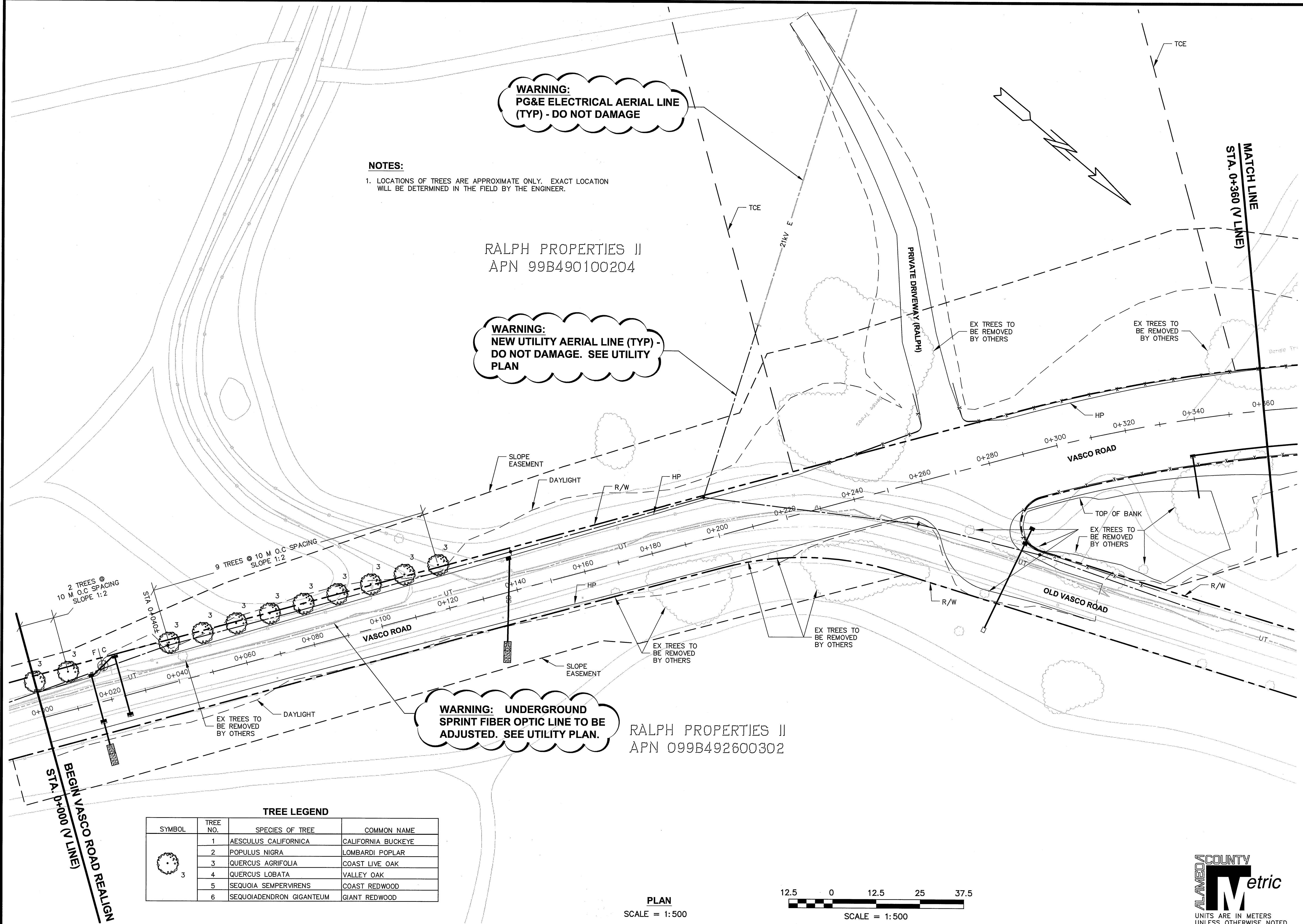
NO.	DESCRIPTION	BY	DATE	APPVD



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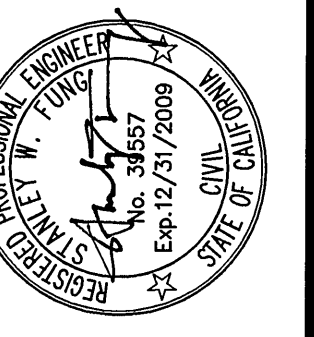
CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
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	ENVIRONMENTAL			

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REVISIONS

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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

APPROVAL	DESIGNED	CHECKED	DATE	SCALE	BOND NO.
	JAMES W. FONG	PAUL MOREL	JAN 2007	1:500	

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
LANDSCAPING PLAN

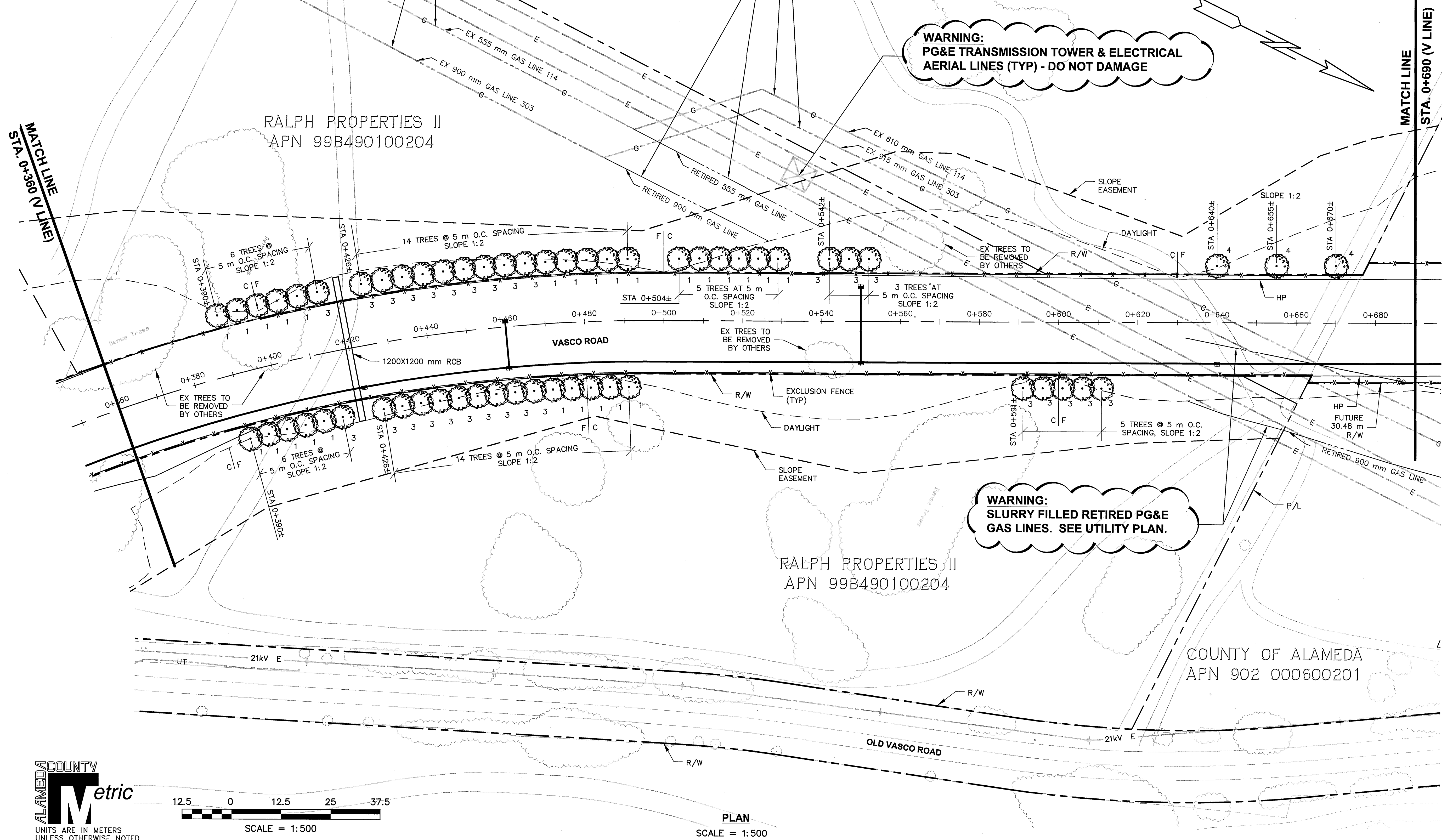
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	91 OF 145
FILE NO.	U-357-6

	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY	
MAINTENANCE			TRAFFIC	
REAL ESTATE			ENVIRONMENTAL	

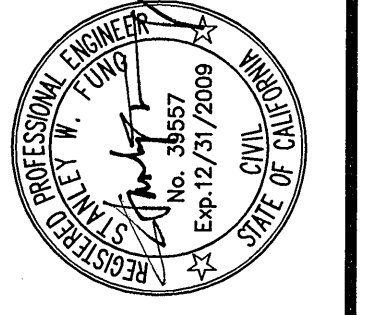
TREE LEGEND			
SYMBOL	TREE NO.	SPECIES OF TREE	COMMON NAME
 3	1	AESCULUS CALIFORNICA	CALIFORNIA BUCKEYE
	2	POPULUS NIGRA	LOMBARDI POPLAR
	3	QUERCUS AGRIFOLIA	COAST LIVE OAK
	4	QUERCUS LOBATA	VALLEY OAK
	5	SEQUOIA SEMPERVIRENS	COAST REDWOOD
	6	SEQUIADENDRON GIGANTEUM	GIANT REDWOOD

NOTES:

1. LOCATIONS OF TREES ARE APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.



REVISIONS			
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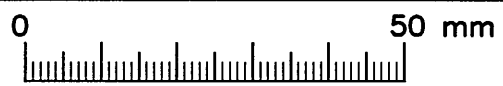


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

LANDSCAPING PLAN

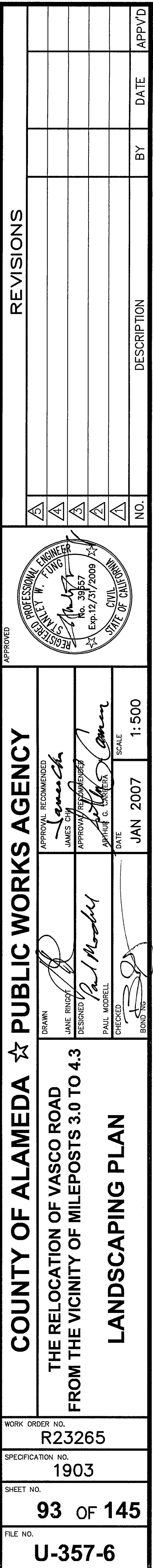
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	92 OF 145
U. NO.	U-357-6



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NOTES:

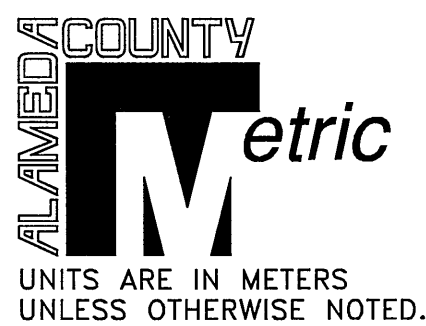
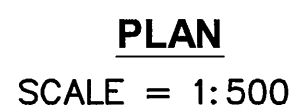
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NOTES:

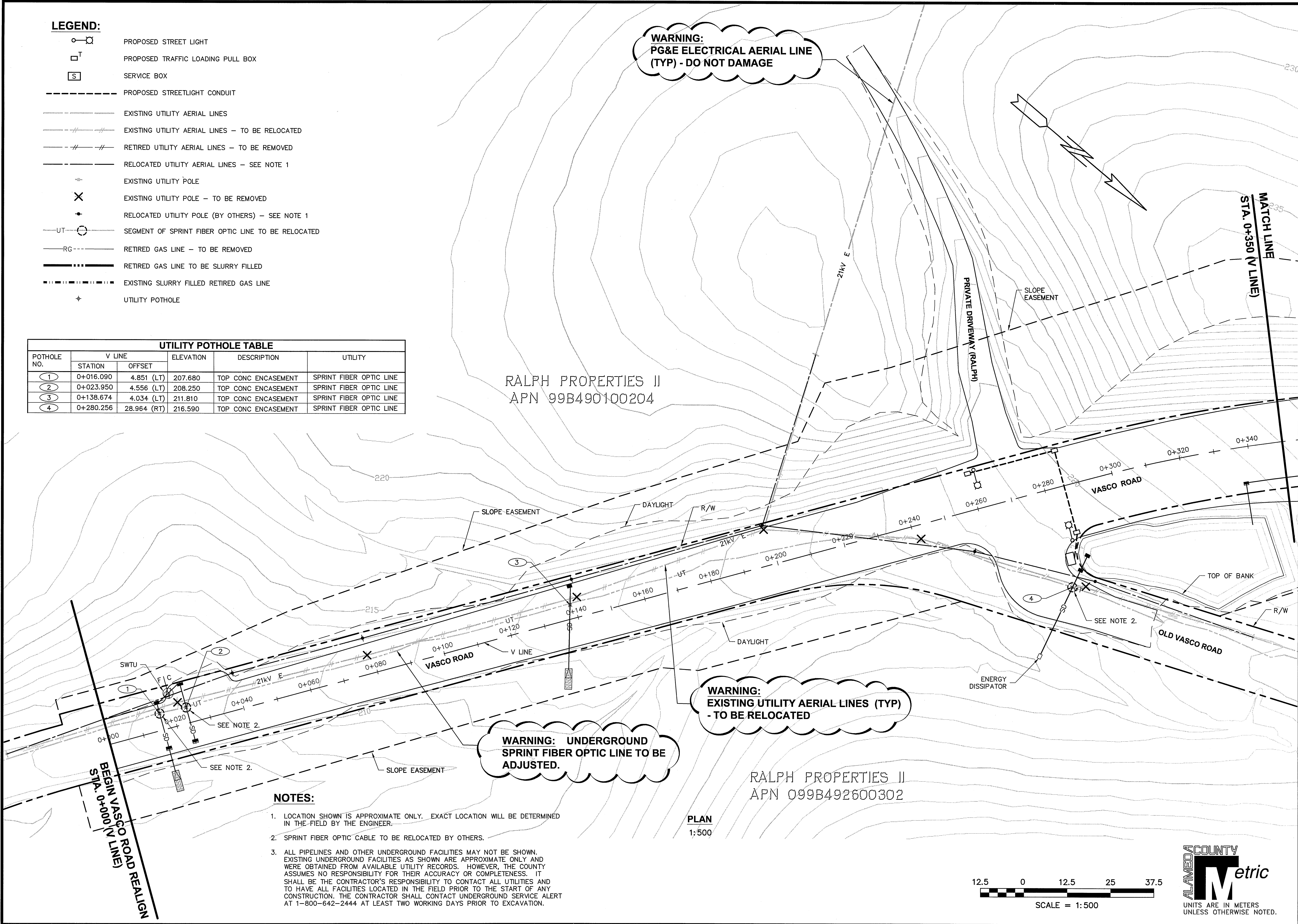
1. LOCATIONS OF TREES ARE APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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DATE:	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	REVIEWED BY:
CONSTRUCTION	SURVEY	CONSTRUCTION	SURVEY	CONSTRUCTION	SURVEY
MAINTENANCE	TRAFFIC	MAINTENANCE	TRAFFIC	MAINTENANCE	TRAFFIC
REAL ESTATE	ENVIRONMENTAL	REAL ESTATE	ENVIRONMENTAL	REAL ESTATE	ENVIRONMENTAL

- LEGEND:**
- PROPOSED STREET LIGHT
 - PROPOSED TRAFFIC LOADING PULL BOX
 - SERVICE BOX
 - PROPOSED STREETLIGHT CONDUIT
 - EXISTING UTILITY AERIAL LINES
 - EXISTING UTILITY AERIAL LINES - TO BE RELOCATED
 - RETIRED UTILITY AERIAL LINES - TO BE REMOVED
 - RELOCATED UTILITY AERIAL LINES - SEE NOTE 1
 - EXISTING UTILITY POLE
 - EXISTING UTILITY POLE - TO BE REMOVED
 - RELOCATED UTILITY POLE (BY OTHERS) - SEE NOTE 1
 - SEGMENT OF SPRINT FIBER OPTIC LINE TO BE RELOCATED
 - RETIRED GAS LINE - TO BE REMOVED
 - RETIRED GAS LINE TO BE SLURRY FILLED
 - EXISTING SLURRY FILLED RETIRED GAS LINE
 - UTILITY POTHOLE

UTILITY POTHOLE TABLE					
POTHOLE NO.	V LINE		ELEVATION	DESCRIPTION	UTILITY
	STATION	OFFSET			
1	0+016.090	4.851 (LT)	207.680	TOP CONC ENCASEMENT	SPRINT FIBER OPTIC LINE
2	0+023.950	4.556 (LT)	208.250	TOP CONC ENCASEMENT	SPRINT FIBER OPTIC LINE
3	0+138.674	4.034 (LT)	211.810	TOP CONC ENCASEMENT	SPRINT FIBER OPTIC LINE
4	0+280.256	28.964 (RT)	216.590	TOP CONC ENCASEMENT	SPRINT FIBER OPTIC LINE



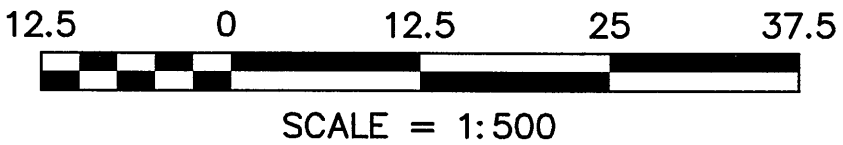
- NOTES:**
- LOCATION SHOWN IS APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - SPRINT FIBER OPTIC CABLE TO BE RELOCATED BY OTHERS.
 - ALL PIPELINES AND OTHER UNDERGROUND FACILITIES MAY NOT BE SHOWN. EXISTING UNDERGROUND FACILITIES AS SHOWN ARE APPROXIMATE ONLY AND WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. HOWEVER, THE COUNTY ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITIES AND TO HAVE ALL FACILITIES LOCATED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 1-800-642-2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.

WARNING:
EXISTING UTILITY AERIAL LINES (TYP)
- TO BE RELOCATED

WARNING:
UNDERGROUND
SPRINT FIBER OPTIC LINE TO BE
ADJUSTED.

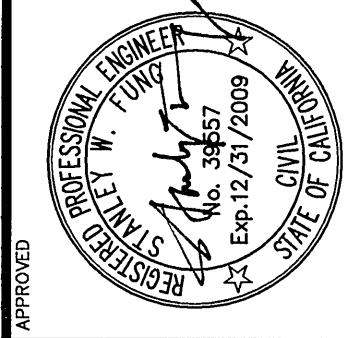
WARNING:
PG&E ELECTRICAL AERIAL LINE
(TYP) - DO NOT DAMAGE

PLAN
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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

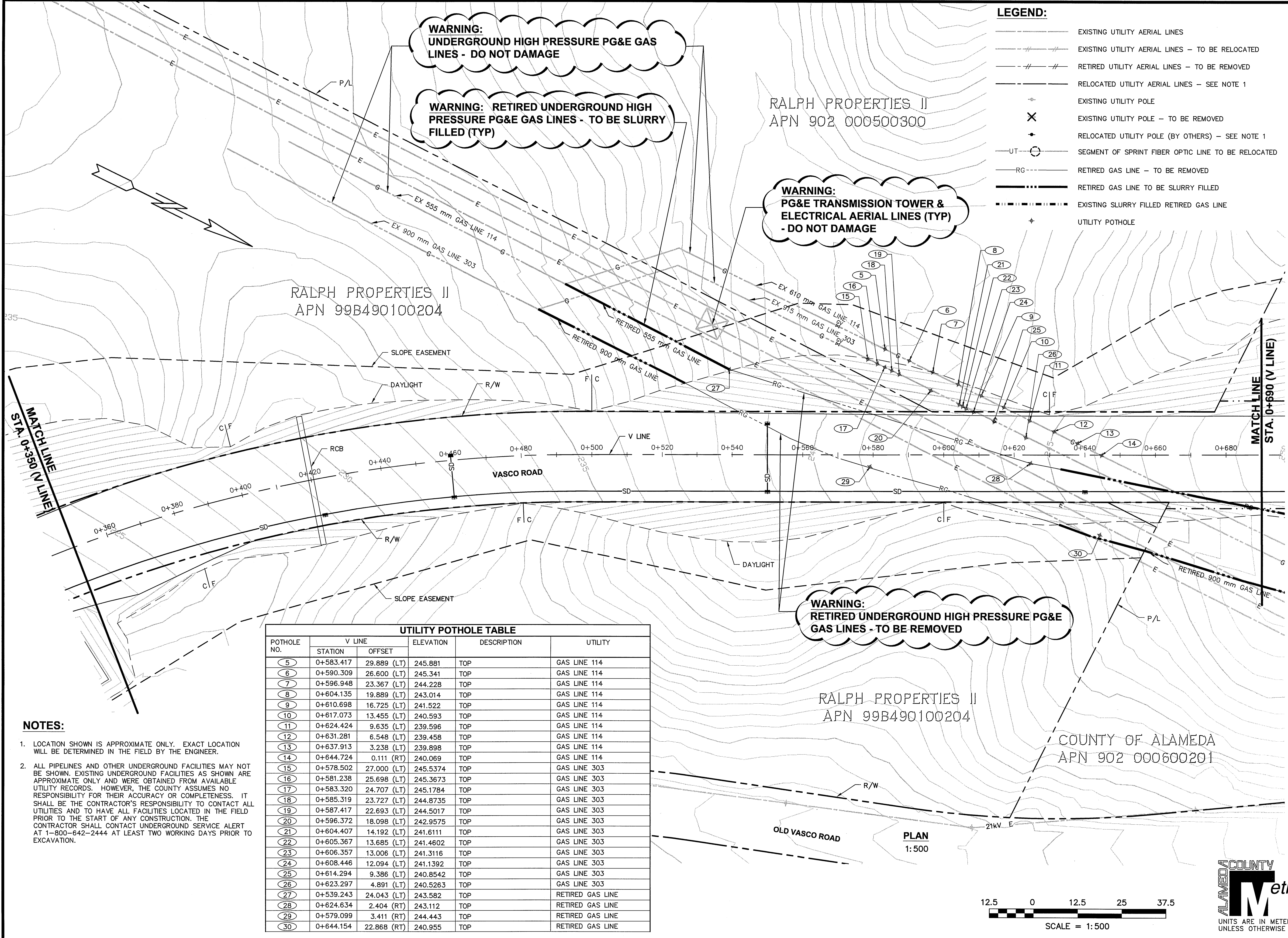
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

UTILITY PLAN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	96 OF 145
FILE NO.	U-357-6

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	CONSTRUCTION
REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	MAINTENANCE
REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	REAL ESTATE
REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	TRAFFIC
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REVISIONS

NO.	DESCRIPTION	BY	DATE	APP'D

APPROVED

RESIDENTIAL ENGINEER
STANLEY W. TUCKER
Exp. 12/31/2009
STATE OF CALIF.

APPROVED

APPROVAL RECOMMENDED
JAMES CHU
DESIGNED
BOND MC CARTON MARAVILLA
CHECKED
JAMES CHU

DATE
JAN 2008

SCALE
1:500

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

UTILITY PLAN

WORK ORDER NO.
R23265

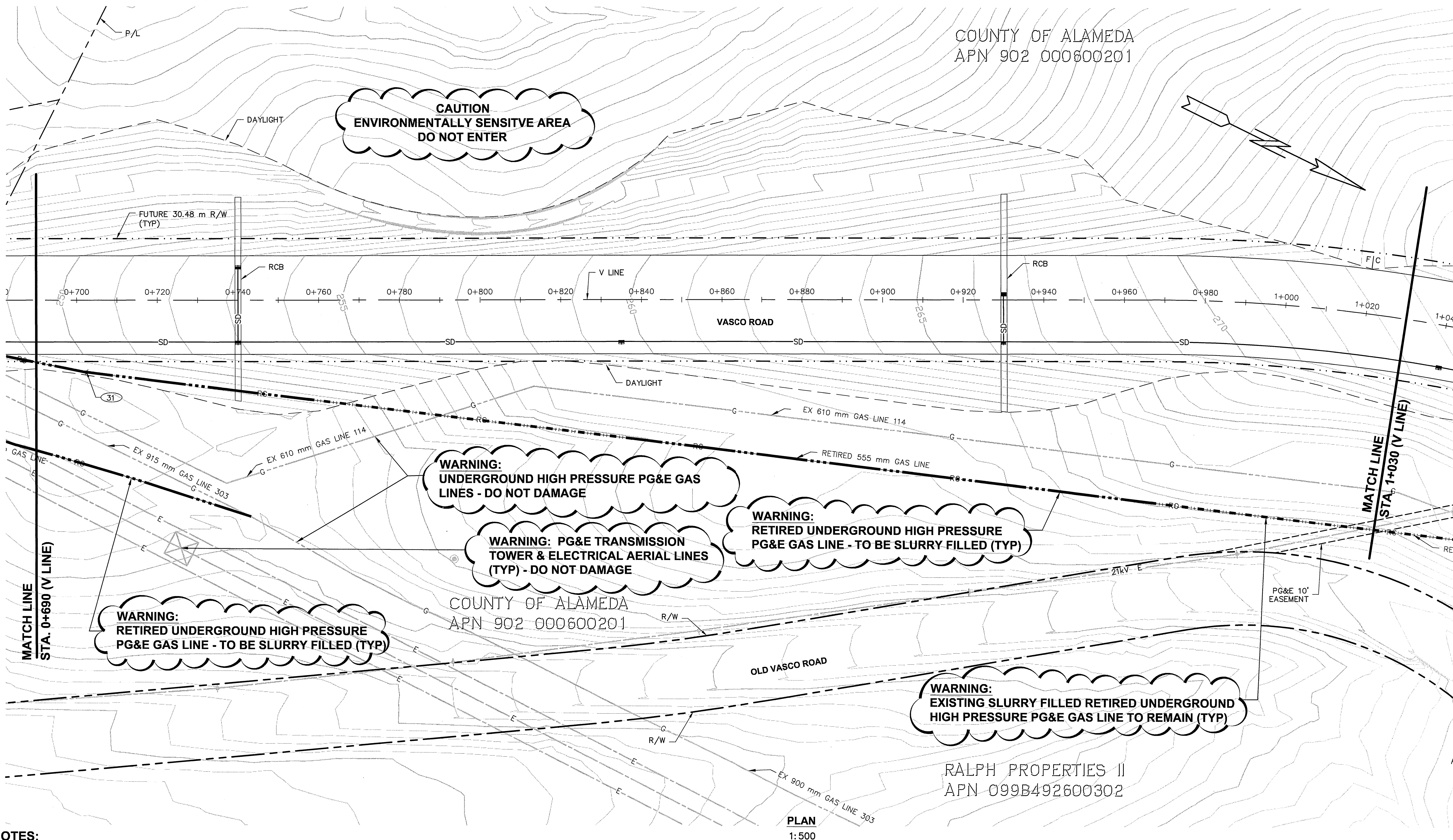
SPECIFICATION NO.
1903

SHEET NO.
97 OF 145

FILE NO.
U-357-6

	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
CONSTRUCTION			SURVEY	
MAINTENANCE			TRAFFIC	
REAL ESTATE			ENVIRONMENTAL	

UTILITY POTHOLE TABLE					
POTHOLE NO.	V LINE		ELEVATION	DESCRIPTION	UTILITY
	STATION	OFFSET			
31	0+702.429	17.933 (RT)	246.769	TOP	RETIRED GAS LINE

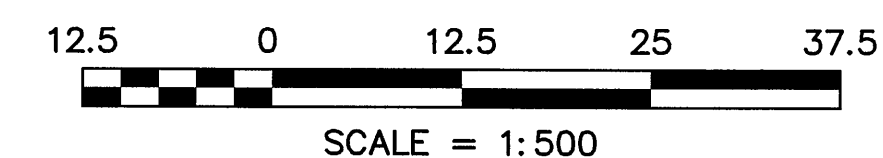


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LEGEND:

- | | | | |
|---|---|---|--|
|  | EXISTING UTILITY AERIAL LINES |  | RELOCATED UTILITY POLE (BY OTHERS) - SEE NOTE 1 |
|  | EXISTING UTILITY AERIAL LINES - TO BE RELOCATED |  | SEGMENT OF SPRINT FIBER OPTIC LINE TO BE RELOCATED |
|  | RETIRED UTILITY AERIAL LINES - TO BE REMOVED |  | RETIRED GAS LINE - TO BE REMOVED |
|  | RELOCATED UTILITY AERIAL LINES - SEE NOTE 1 |  | RETIRED GAS LINE TO BE SLURRY FILLED |
|  | EXISTING UTILITY POLE |  | EXISTING SLURRY FILLED RETIRED GAS LINE |
|  | EXISTING UTILITY POLE - TO BE REMOVED |  | UTILITY POTHOLE |



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY					
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3			DRAWN <i>Jane Chai</i> JANE CHAI APPROVAL RECOMMENDED JAN 8/08		
UTILITY PLAN			DESIGNED <i>Rafael Jaramilla</i> RAFAEL JARAMILLA APPROVED & CALLED JAN 8/08		
WORK ORDER NO. R23265			CHECKED DATE	SCALE	
SPECIFICATION NO. 1903			JAN 2008	1:500	
SHEET NO.					
FILE NO.					
U-357-6					
APPROVED			REVISIONS		
REGISTERED PROFESSIONAL ENGINEER STATE OF CA No. 51208 Exp. 12/31/2009 <i>[Signature]</i>			NO.		
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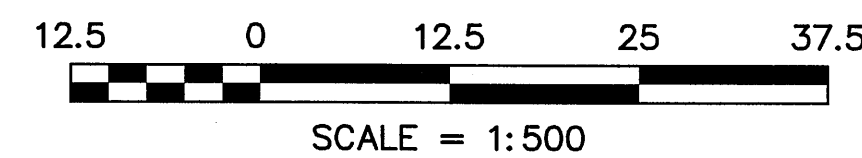
	EXISTING UTILITY AERIAL LINES
	EXISTING UTILITY AERIAL LINES -- TO BE RELOCATED
	RETIRED UTILITY AERIAL LINES -- TO BE REMOVED
	RELOCATED UTILITY AERIAL LINES -- SEE NOTE 1
	EXISTING UTILITY POLE
	EXISTING UTILITY POLE -- TO BE REMOVED
	RELOCATED UTILITY POLE (BY OTHERS) -- SEE NOTE 1
	SEGMENT OF SPRINT FIBER OPTIC LINE TO BE RELOCATED
	RETIRED GAS LINE -- TO BE REMOVED
	RETIRED GAS LINE TO BE SLURRY FILLED
	EXISTING SLURRY FILLED RETIRED GAS LINE
	UTILITY POTHOLE



1. LOCATION SHOWN IS APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. ALL PIPELINES AND OTHER UNDERGROUND FACILITIES MAY NOT BE SHOWN. EXISTING UNDERGROUND FACILITIES AS SHOWN ARE APPROXIMATE ONLY AND WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. HOWEVER, THE COUNTY ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITIES AND TO HAVE ALL FACILITIES LOCATED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 1-800-642-2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.

UTILITY POTHOLE TABLE					
POTHOLE NO.	V LINE		ELEVATION	DESCRIPTION	UTILITY
	STATION	OFFSET			
32	1+207.619	23.251 (RT)	268.046	TOP	RETIRED GAS LINE
33	1+327.965	2.051 (LT)	283.022	TOP	RETIRED GAS LINE

PLAN
1:500



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

WORK ORDER NO. R23265		APPROVED		REVISIONS		APPROVED	
SPECIFICATION NO. 1903		DATE JAN 2008		DESCRIPTION		DATE	
SHEET NO. 99 OF 145		SCALE 1:500		NO.		BY	
FILE NO. U-357-6		JAMES CHU		DATE		APPROVED	

DATE:	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	REVIEWED BY:
CONSTRUCTION	SURVEY	CONSTRUCTION	SURVEY	CONSTRUCTION	SURVEY
MAINTENANCE	TRAFFIC	MAINTENANCE	TRAFFIC	MAINTENANCE	TRAFFIC
REAL ESTATE	ENVIRONMENTAL	REAL ESTATE	ENVIRONMENTAL	REAL ESTATE	ENVIRONMENTAL

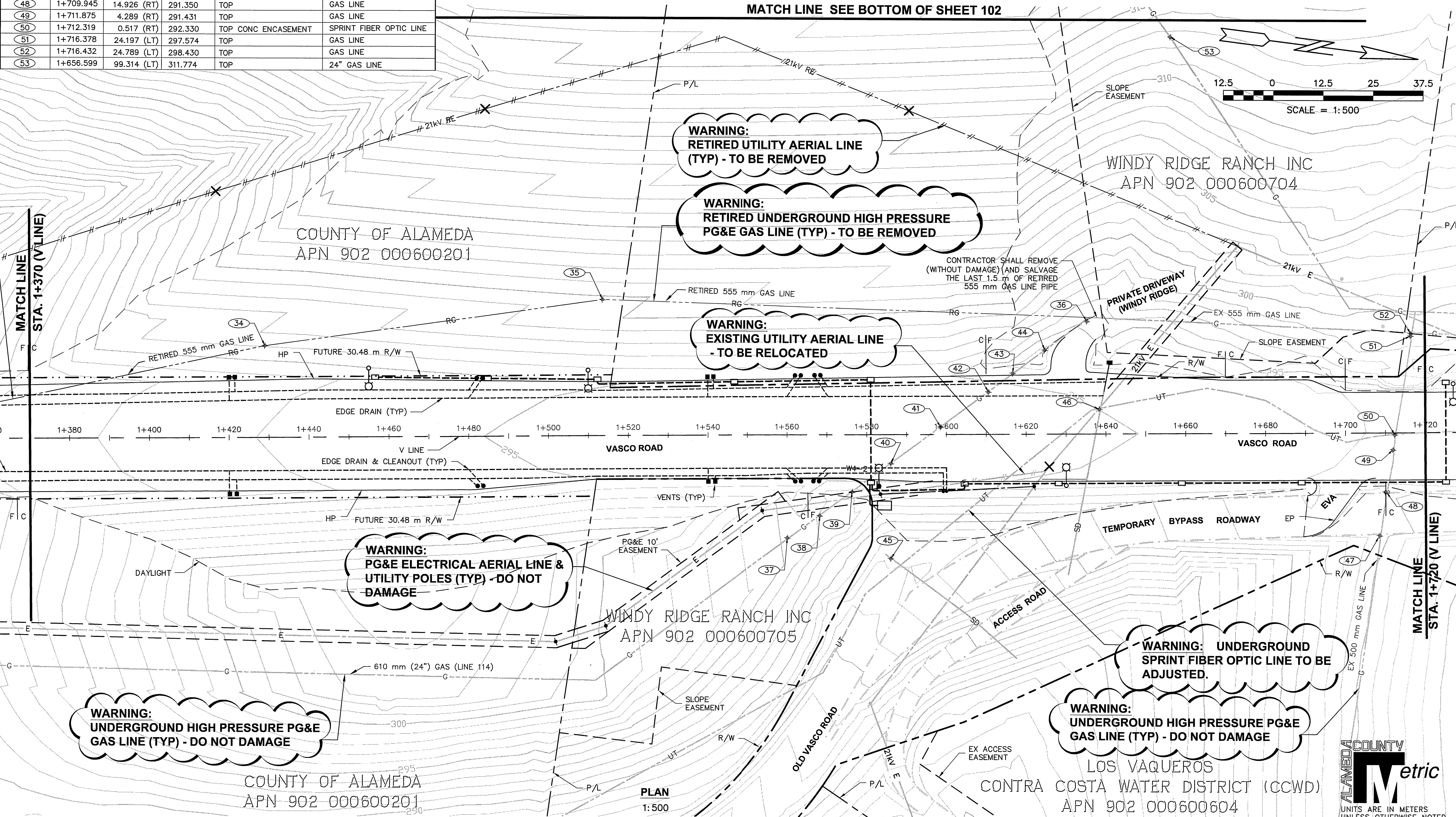
UTILITY POTHOLE TABLE					
POTHOLE NO.	V LINE		ELEVATION	DESCRIPTION	UTILITY
	STATION	OFFSET			
34	1+429.034	23.033 (LT)	302.414	TOP	RETIRED GAS LINE
35	1+513.718	34.072 (LT)	315.863	TOP	RETIRED GAS LINE
36	1+635.345	28.217 (LT)	294.001	TOP	RETIRED GAS LINE
37	1+559.917	25.957 (RT)	292.581	TOP	GAS LINE 114
38	1+568.106	20.394 (RT)	291.079	TOP	GAS LINE 114
39	1+576.246	14.430 (RT)	290.207	TOP	GAS LINE 114
40	1+586.041	7.272 (RT)	289.660	TOP	GAS LINE 114
41	1+598.539	1.826 (LT)	289.593	TOP	GAS LINE 114
42	1+610.597	10.630 (LT)	290.175	TOP	GAS LINE 114
43	1+616.703	15.247 (LT)	290.567	TOP	GAS LINE 114
44	1+624.759	21.014 (LT)	291.130	TOP	GAS LINE 114
45	1+585.893	31.265 (RT)	286.270	TOP	CONC ENCASEMENT
46	1+638.375	6.194 (LT)	290.880	TOP	CONC ENCASEMENT
47	1+708.426	25.926 (RT)	291.750	TOP	GAS LINE
48	1+709.945	14.926 (RT)	291.350	TOP	GAS LINE
49	1+711.875	4.289 (RT)	291.431	TOP	GAS LINE
50	1+712.319	0.517 (RT)	292.330	TOP	CONC ENCASEMENT
51	1+716.378	24.197 (LT)	297.574	TOP	GAS LINE
52	1+716.432	24.789 (LT)	298.430	TOP	GAS LINE
53	1+656.599	99.314 (LT)	311.774	TOP	24" GAS LINE

LEGEND:

- PROPOSED STREET LIGHT
- PROPOSED TRAFFIC LOADING PULL BOX
- SERVICE BOX
- PROPOSED STREETLIGHT CONDUIT
- EXISTING UTILITY AERIAL LINES
- EXISTING UTILITY AERIAL LINES - TO BE RELOCATED
- RETIRED UTILITY AERIAL LINES - TO BE REMOVED
- RELOCATED UTILITY AERIAL LINES - SEE NOTE 1
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE - TO BE REMOVED
- RELOCATED UTILITY POLE (BY OTHERS) - SEE NOTE 1
- SEGMENT OF SPRINT FIBER OPTIC LINE TO BE RELOCATED
- RETIRED GAS LINE - TO BE REMOVED
- RETIRED GAS LINE TO BE SLURRY FILLED
- EXISTING SLURRY FILLED RETIRED GAS LINE
- UTILITY POTHOLE

NOTES:

- LOCATION SHOWN IS APPROXIMATE ONLY. EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PIPELINES AND OTHER UNDERGROUND FACILITIES MAY NOT BE SHOWN. EXISTING UNDERGROUND FACILITIES AS SHOWN ARE APPROXIMATE ONLY AND WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. HOWEVER, THE COUNTY ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITIES AND TO HAVE ALL FACILITIES LOCATED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 1-800-642-2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.

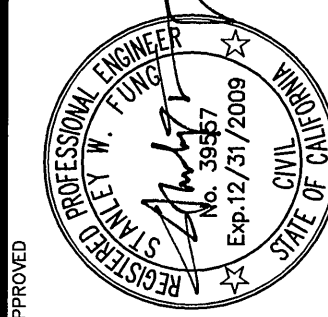


COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

UTILITY PLAN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	100 OF 145
FILE NO.	U-357-6



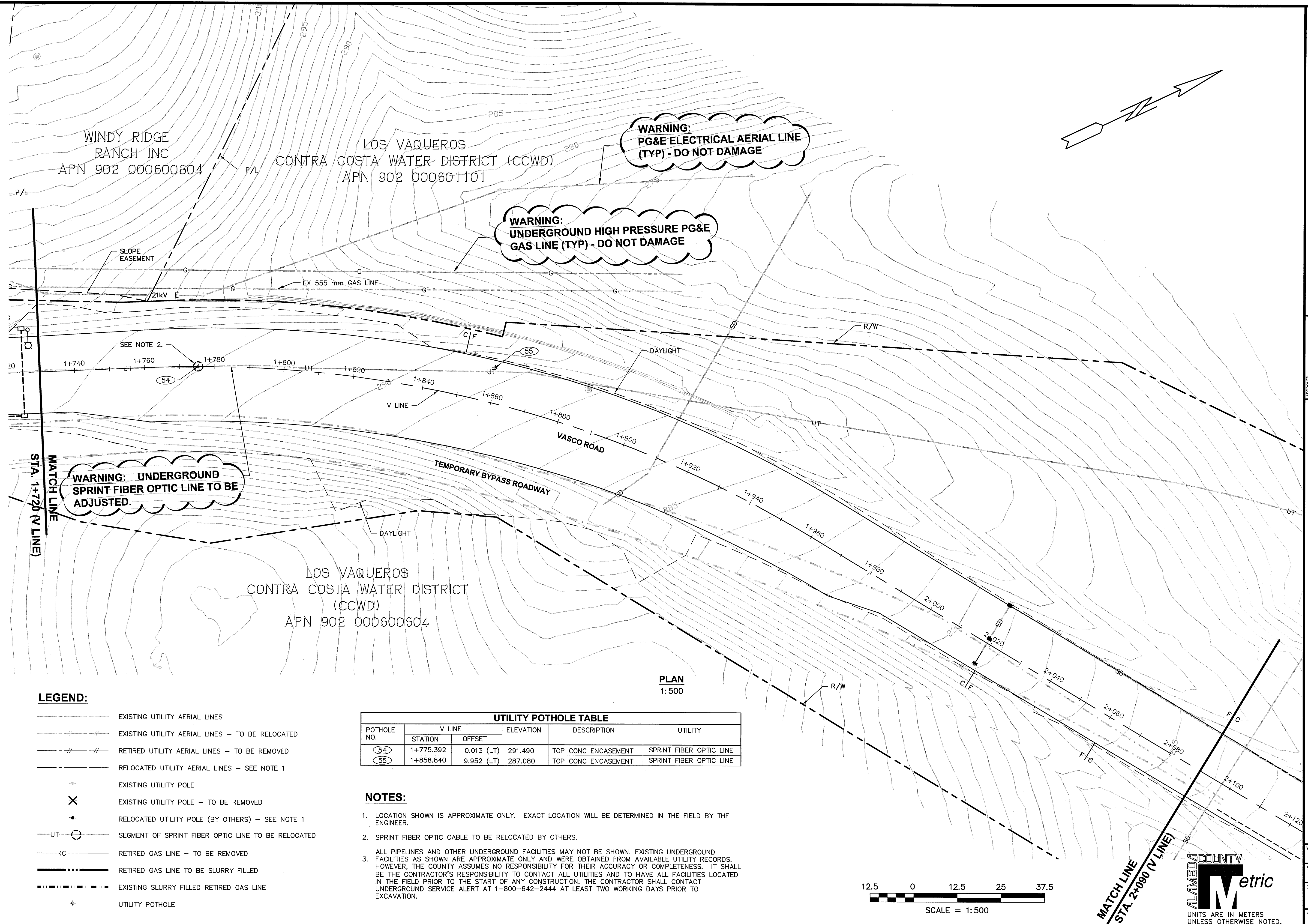
APPROVED	DESIGNED	CHECKED	DATE	SCALE
JAMES CHU	JAMES CHU	JAMES CHU	JAN 08	1:500

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:	CONSTRUCTION	REAL ESTATE
SURVEY		TRAFFIC		MAINTENANCE	
ENVIRONMENTAL					

N:\ROAD\23265\Final Plan - Vasco Road 2007\Utility Plan-500 scale.dwg 6-25-08 03:44:02 PM amberl



REVISIONS

NO.	DESCRIPTION	BY	DATE	APP'D

APPROVED

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 34537
Exp. 12/31/2009
JAMES CHU

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

UTILITY PLAN

WORK ORDER NO.
R23265

SPECIFICATION NO.
1903

SHEET NO.
101 OF 145

FILE NO.
U-357-6

DATE
JAN 2008

SCALE
1:500

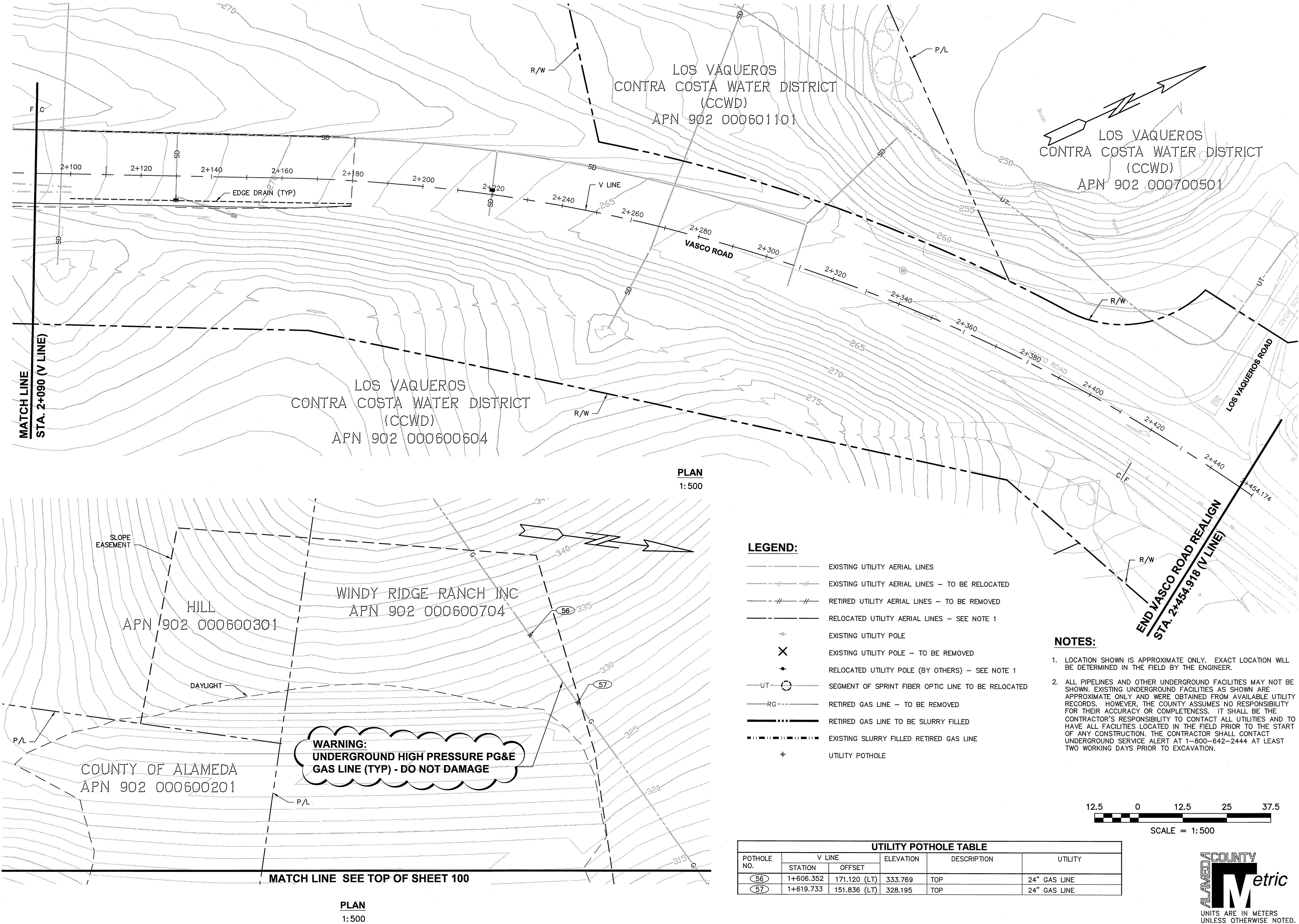
APPROVAL REQUESTED
JAMES CHU

DESIGNED
JAMES CHU

CHECKED
JAMES CHU

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

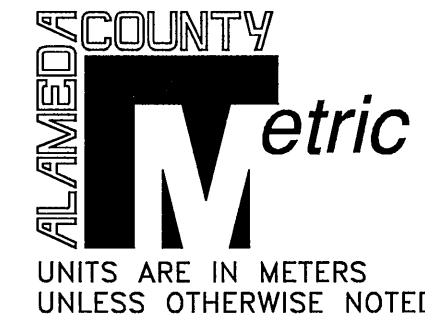
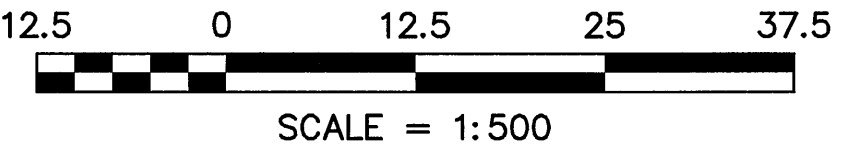
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- LEGEND:**
- EXISTING UTILITY AERIAL LINES
 - EXISTING UTILITY AERIAL LINES - TO BE RELOCATED
 - RETIRED UTILITY AERIAL LINES - TO BE REMOVED
 - RELOCATED UTILITY AERIAL LINES - SEE NOTE 1
 - EXISTING UTILITY POLE
 - EXISTING UTILITY POLE - TO BE REMOVED
 - RELOCATED UTILITY POLE (BY OTHERS) - SEE NOTE 1
 - SEGMENT OF SPRINT FIBER OPTIC LINE TO BE RELOCATED
 - RETIRED GAS LINE - TO BE REMOVED
 - RETIRED GAS LINE TO BE SLURRY FILLED
 - EXISTING SLURRY FILLED RETIRED GAS LINE
 - UTILITY POTHOLE

- NOTES:**
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UTILITY POTHOLE TABLE					
POTHOLE NO.	V LINE		ELEVATION	DESCRIPTION	UTILITY
	STATION	OFFSET			
56	1+606.352	171.120 (LT)	333.769	TOP	24" GAS LINE
57	1+619.733	151.836 (LT)	328.195	TOP	24" GAS LINE



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

UTILITY PLAN

WORK ORDER NO. **R23265**
SPECIFICATION NO. **1903**
SHEET NO. **102 OF 145**
FILE NO. **U-357-6**

APPROVED

PROFESSIONAL ENGINEER
JAMES W. CHU
No. 39857
Exp. 12/31/2009
STATE OF CALIF.

CHECKED

BOND REGISTRAR MARAVILLA

DATE

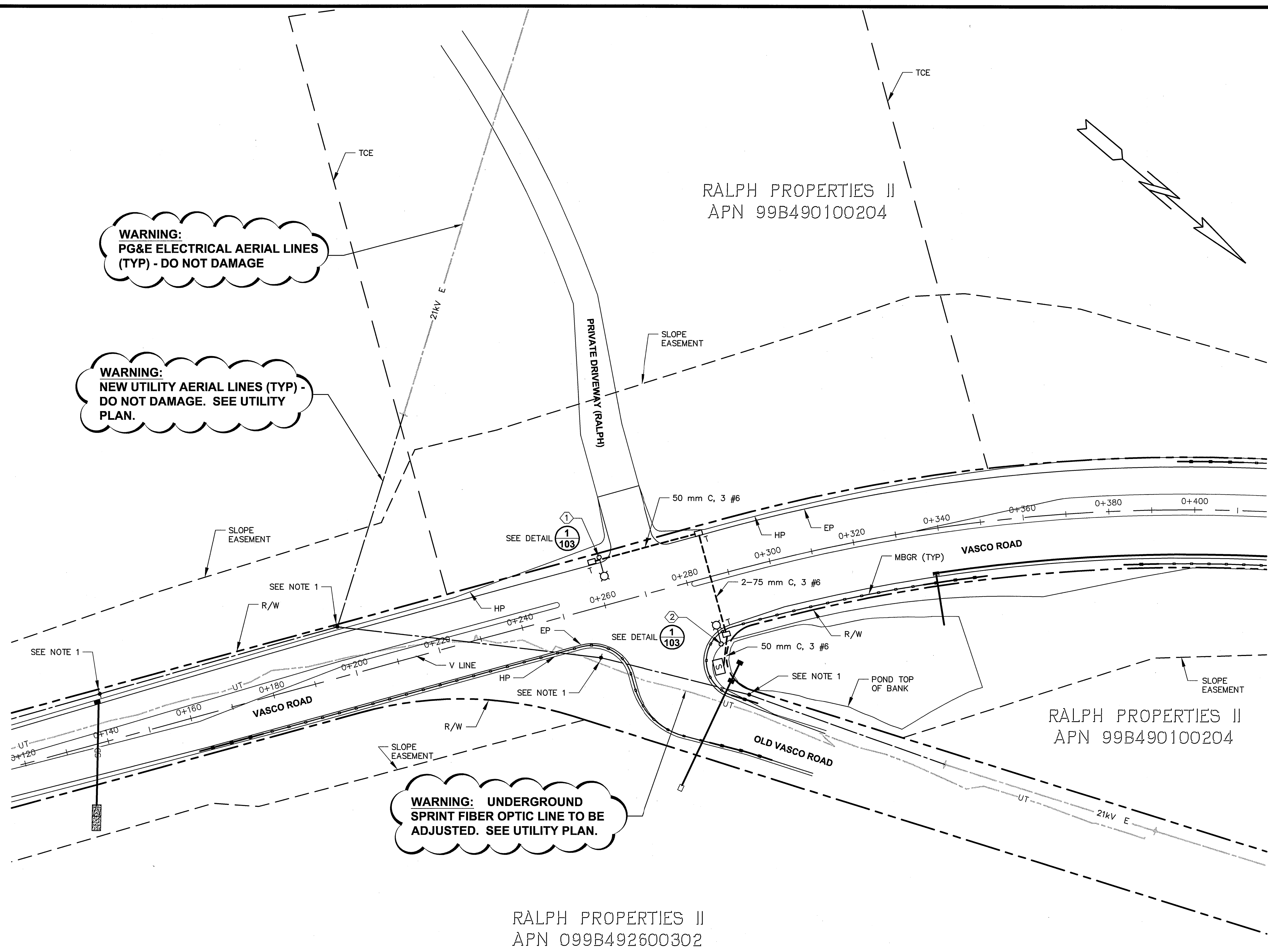
JAN 2008

SCALE

1:500

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

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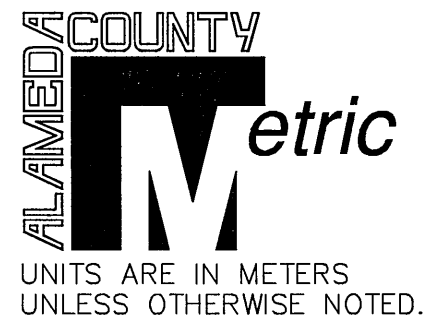
NOTE:
1. NEW UTILITY POLE, SEE UTILITY PLAN.

- LEGEND:**
- NEW STREET LIGHT
 - NEW PULL BOX (TRAFFIC)
 - NEW SERVICE BOX
 - NEW STREETLIGHT CONDUIT

PLAN
1:500

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

12.5 0 12.5 25 37.5
SCALE = 1:500



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 STREET LIGHTING & ELECTRICAL PLAN		NO. DESCRIPTION BY DATE APP'D	
WORK ORDER NO. R23265			
SPECIFICATION NO. 1903			
SHEET NO. 104 OF 145			
FILE NO. U-357-6			
APPROVALS: DESIGNED: [Signature] CHECKED: [Signature] APPROVED: [Signature] DATE: JAN 2008 SCALE: 1:500		REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. 39457 Exp. 12/31/2009 JAMES CHU	

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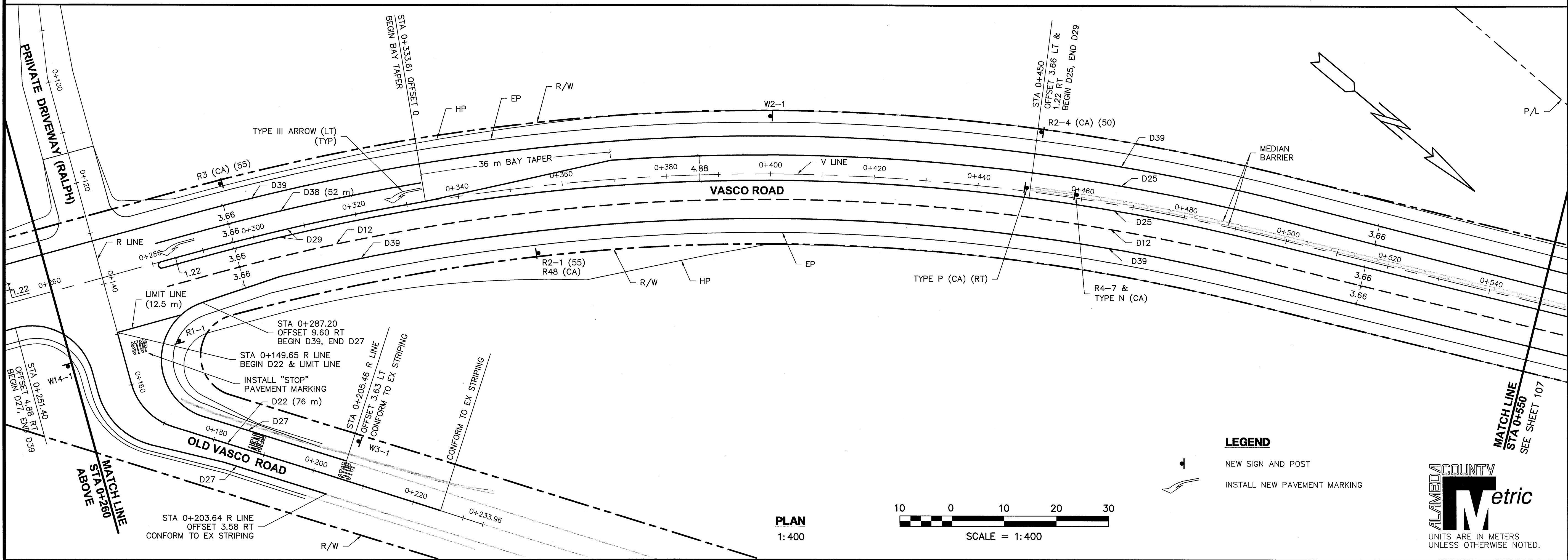
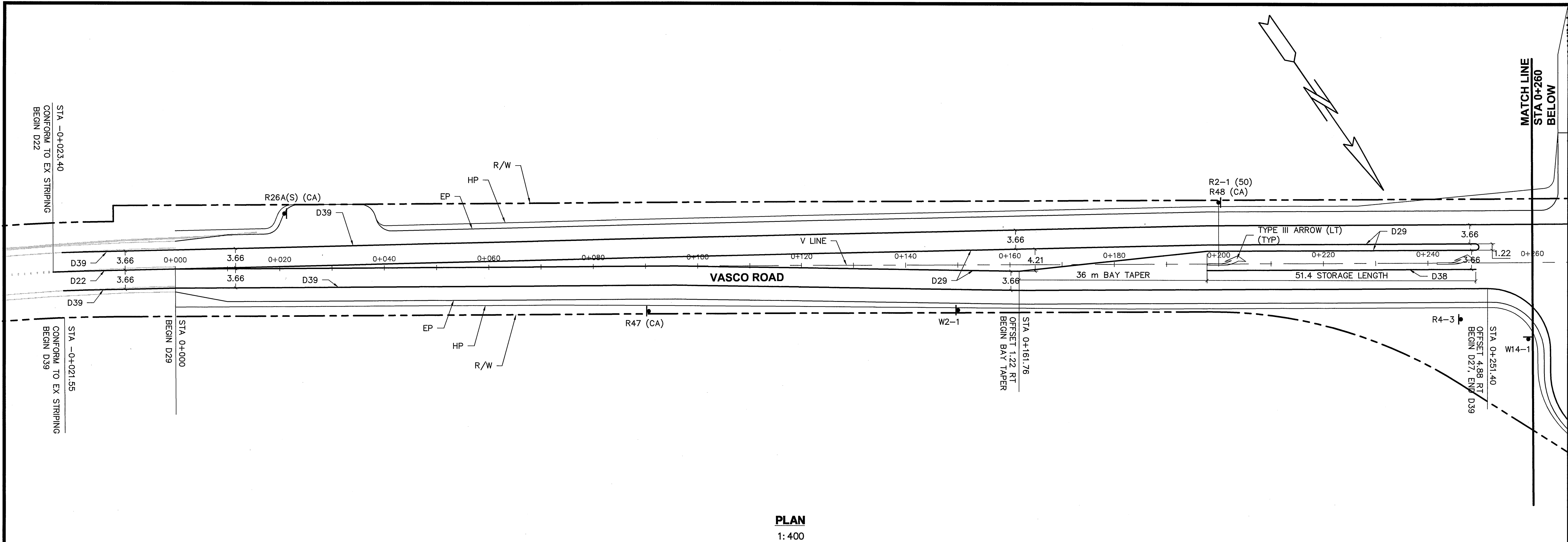
WORK ORDER NO.
R23265

DESCRIPTION NO.
1903

SHEET NO.
105 OF 145

UNIT NO.
U-357-6

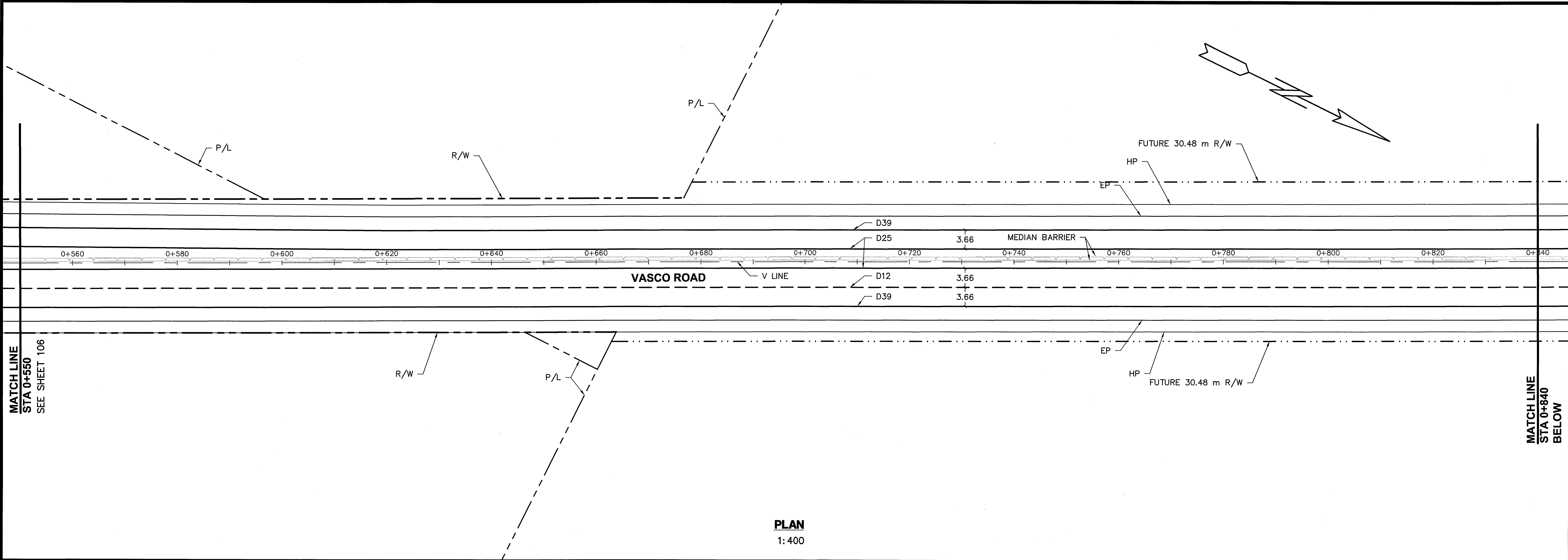
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CONSTRUCTION			SURVEY	
MAINTENANCE			TRAFFIC	
REAL ESTATE			ENVIRONMENTAL	



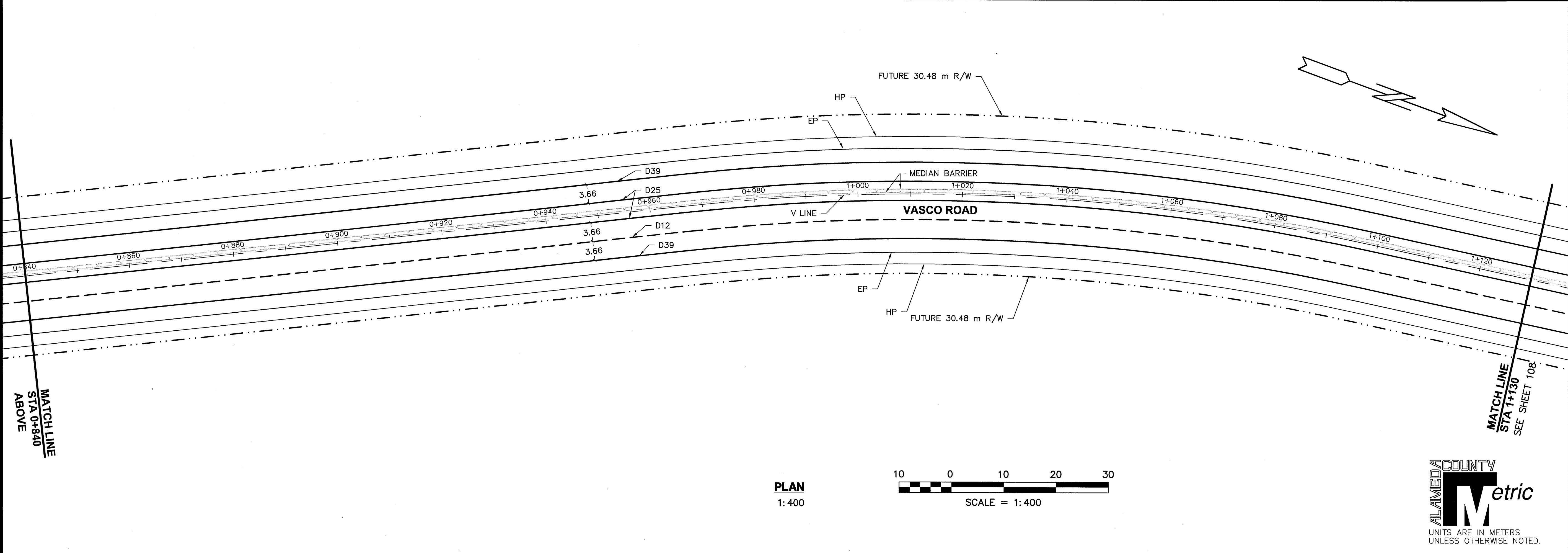
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 SIGNING & STRIPING PLAN		WORK ORDER NO. R23265	
SPECIFICATION NO. 1903		SHEET NO. 106 OF 145	
FILE NO. U-357-6		SCALE 1" = 400'	
DATE JAN 2008		APPROVAL 	
DRAWN 		APPROVAL RECOMMENDED JAMES CHEN 	
DESIGNED 		APPROVAL RECOMMENDED JAMES CHEN 	
CHECKED 		APPROVAL 	
JOHN P. BATES		REVISIONS	
NO.		DESCRIPTION	
BY		DATE	
APPROVED		APPROVED	

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

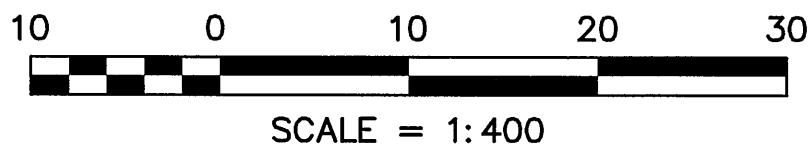
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PLAN
1:400



PLAN
1:400



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		DATE: BY: DATE: APPV'D	
SIGNING & STRIPING PLAN		DESCRIPTION	
WORK ORDER NO. R23265		NO.	
SPECIFICATION NO. 1903		BY	
SHEET NO. 107 OF 145		DATE	
FILE NO. U-357-6		APPV'D	

APPROVED

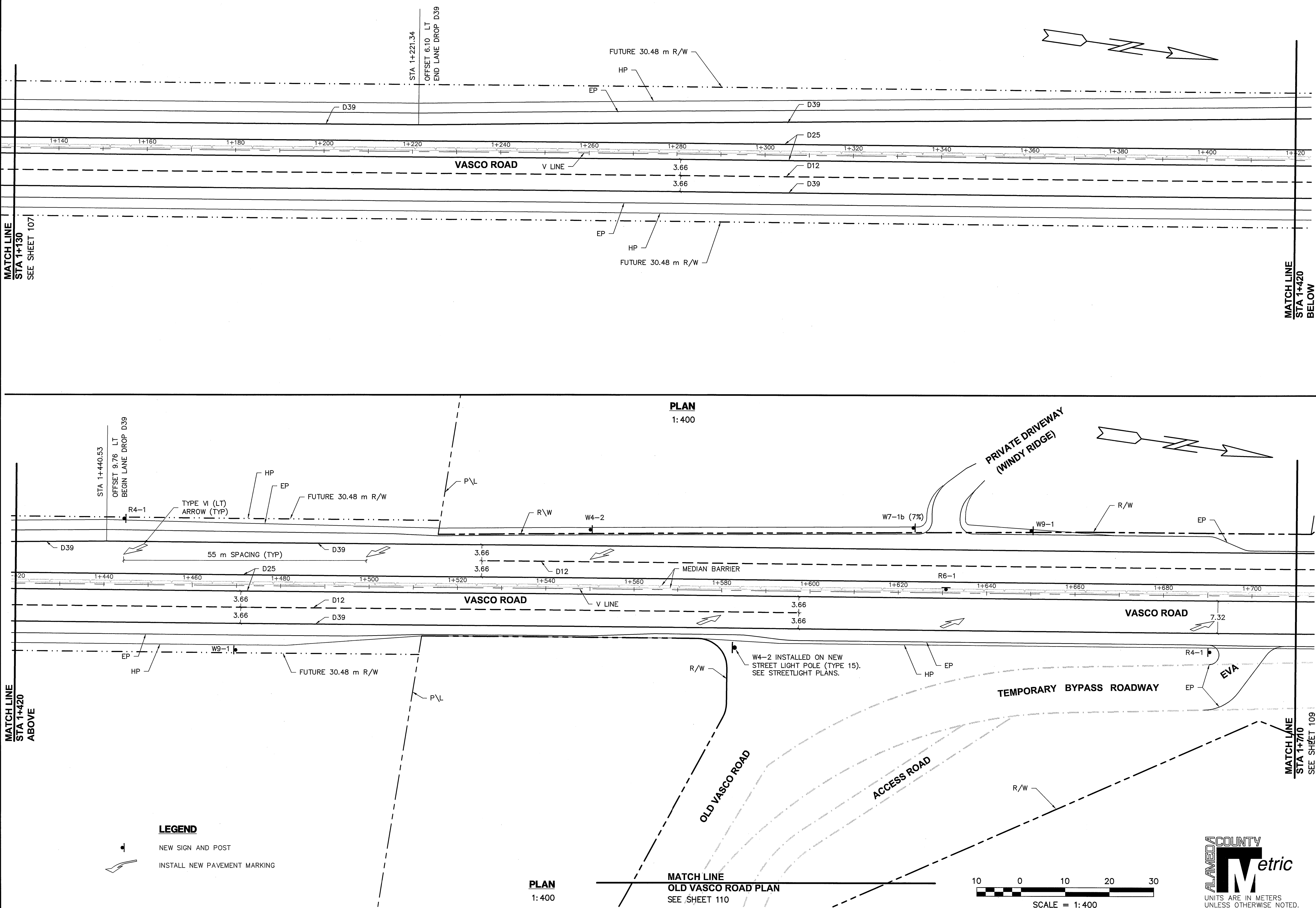
REGISTERED PROFESSIONAL ENGINEER
JAMES CHOI
No. 39557
Exp. 12/31/2009
DATE OF BIRTH

APPROVAL/RECOMMENDATION

DRAWN: JANE RINGOT
DESIGNED: JANE RINGOT
CHECKED: TAI NGUYEN
DATE: JAN 2008
SCALE: 1:400

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY			
	TRAFFIC			
	ENVIRONMENTAL			

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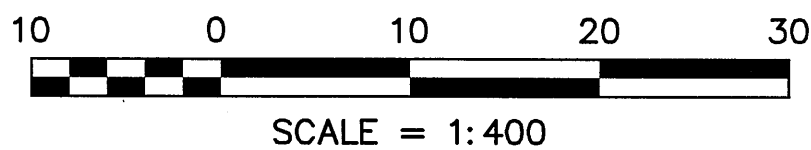
LEGEND

NEW SIGN AND POST

INSTALL NEW PAVEMENT MARKING

PLAN
1:400

MATCH LINE
OLD VASCO ROAD PLAN
SEE SHEET 110



ALAMEDA COUNTY **Metric**

UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

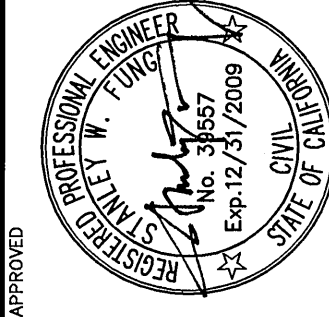
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

SIGNING & STRIPING PLAN

WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	108 OF 145
FILE NO.	U-357-6

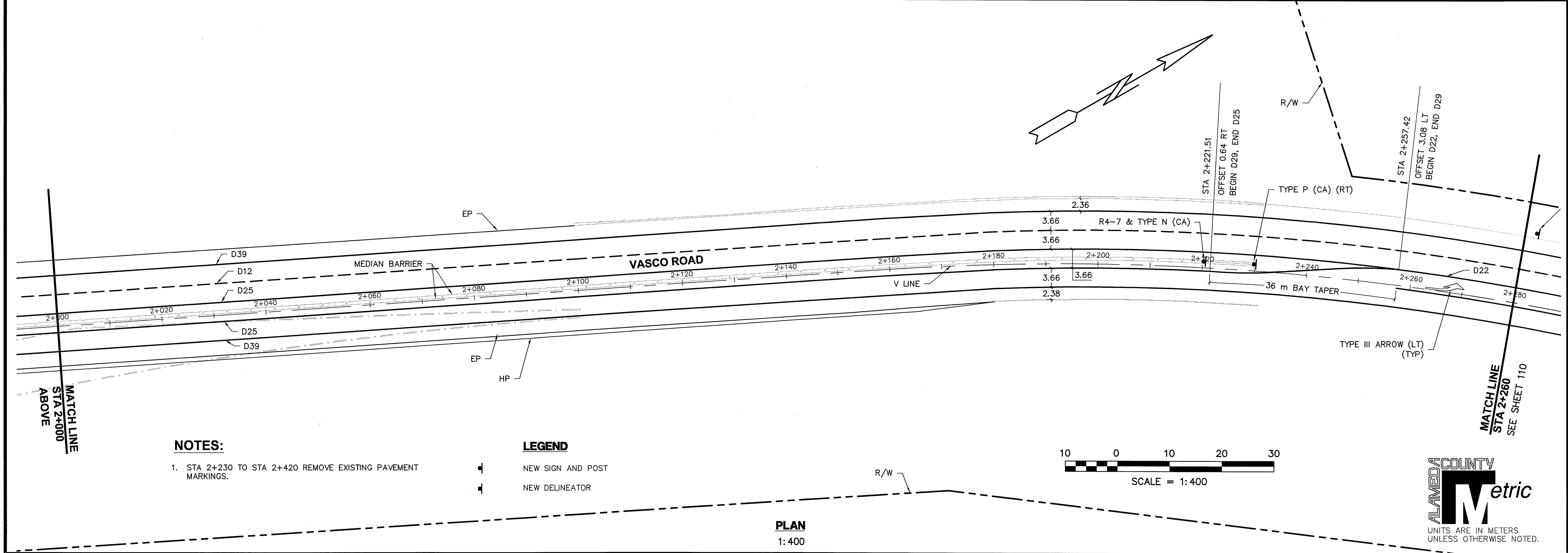
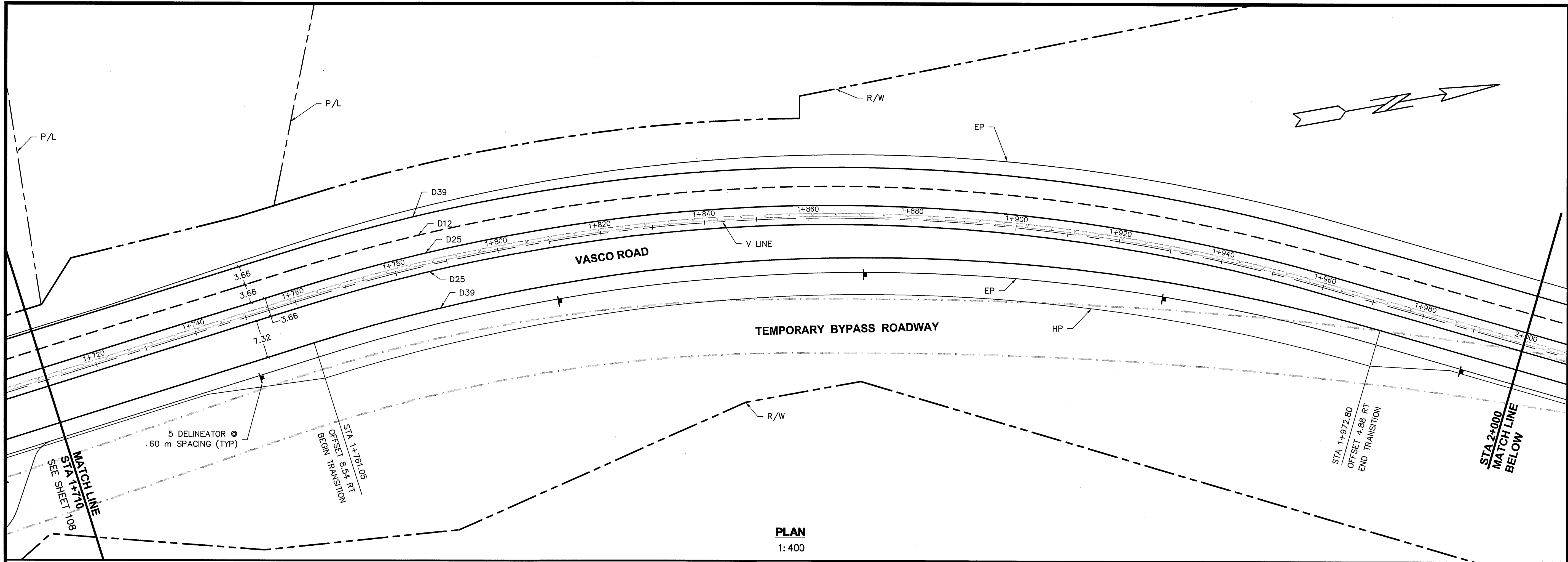
APPROVAL	DESIGNED	CHECKED	DATE	SCALE
APPROVED	DESIGNED	CHECKED	JAN 2008	1:400



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD

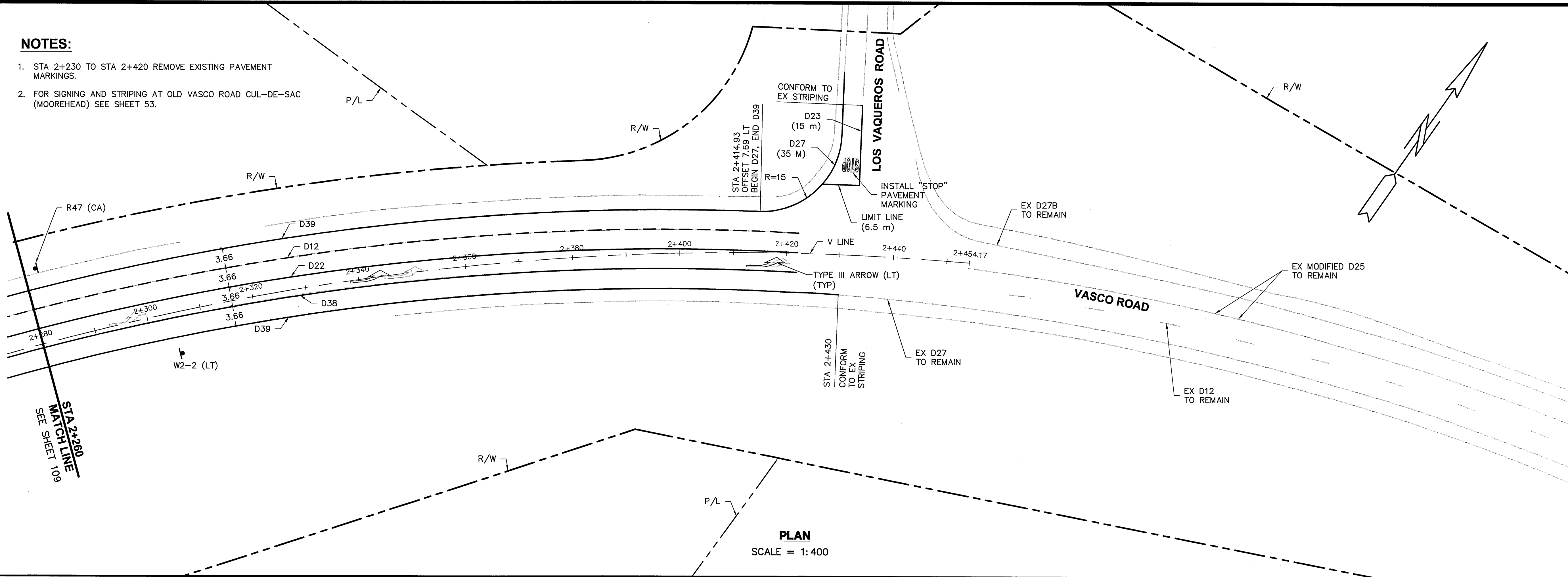
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CONSTRUCTION				SURVEY		
MAINTENANCE				TRAFFIC		
REAL ESTATE				ENVIRONMENTAL		

[illegible]

CONSTRUCTION MAINTENANCE	REVIEWED BY:	DATE:	SURVEY TRAFFIC	REVIEWED BY:	DATE:
REAL ESTATE			ENVIRONMENTAL		

NOTES:

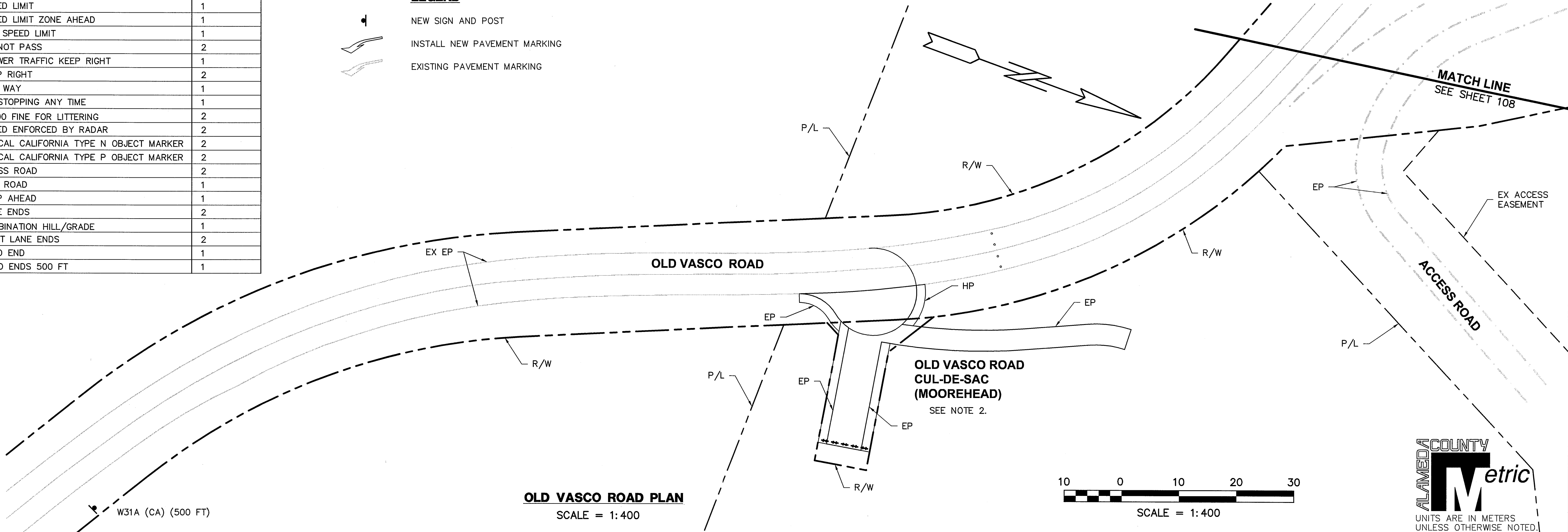
1. STA 2+230 TO STA 2+420 REMOVE EXISTING PAVEMENT MARKINGS.
2. FOR SIGNING AND STRIPING AT OLD VASCO ROAD CUL-DE-SAC (MOOREHEAD) SEE SHEET 53.



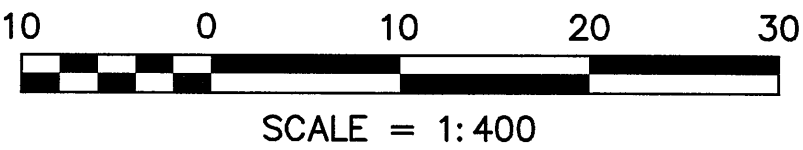
PLAN
SCALE = 1:400

SIGN TABLE		
SIGN CODE	SIGN TITLE	# OF SIGNS
R1-1	STOP	1
R2-1 (50)	SPEED LIMIT	1
R2-1 (55)	SPEED LIMIT	1
R2-4 (CA) (50)	SPEED LIMIT ZONE AHEAD	1
R3 (CA) (55)	END SPEED LIMIT	1
R4-1	DO NOT PASS	2
R4-3	SLOWER TRAFFIC KEEP RIGHT	1
R4-7	KEEP RIGHT	2
R6-1	ONE WAY	1
R26A(S) (CA)	NO STOPPING ANY TIME	1
R47 (CA)	\$1000 FINE FOR LITTERING	2
R48 (CA)	SPEED ENFORCED BY RADAR	2
TYPE N (CA)	TYPICAL CALIFORNIA TYPE N OBJECT MARKER	2
TYPE P (CA) (RT)	TYPICAL CALIFORNIA TYPE P OBJECT MARKER	2
W2-1	CROSS ROAD	2
W2-2 (LT)	SIDE ROAD	1
W3-1	STOP AHEAD	1
W4-2	LANE ENDS	2
W7-1b (7%)	COMBINATION HILL/GRADE	1
W9-1	RIGHT LANE ENDS	2
W14-1	DEAD END	1
W31A (CA) (500 FT)	ROAD ENDS 500 FT	1

- LEGEND**
- NEW SIGN AND POST
 - INSTALL NEW PAVEMENT MARKING
 - EXISTING PAVEMENT MARKING

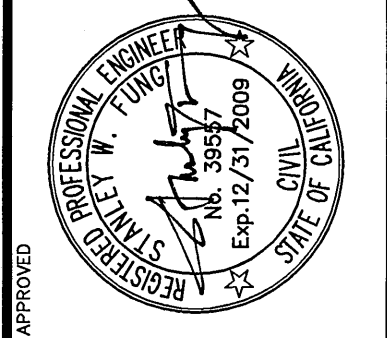


OLD VASCO ROAD PLAN
SCALE = 1:400



REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

APPROVAL RECOMMENDED JAMES CUI JANUARY 2008	APPROVAL JAMES CUI JANUARY 2008	APPROVAL JAMES CUI JANUARY 2008	SCALE 1:400
DATE	DATE	DATE	DATE

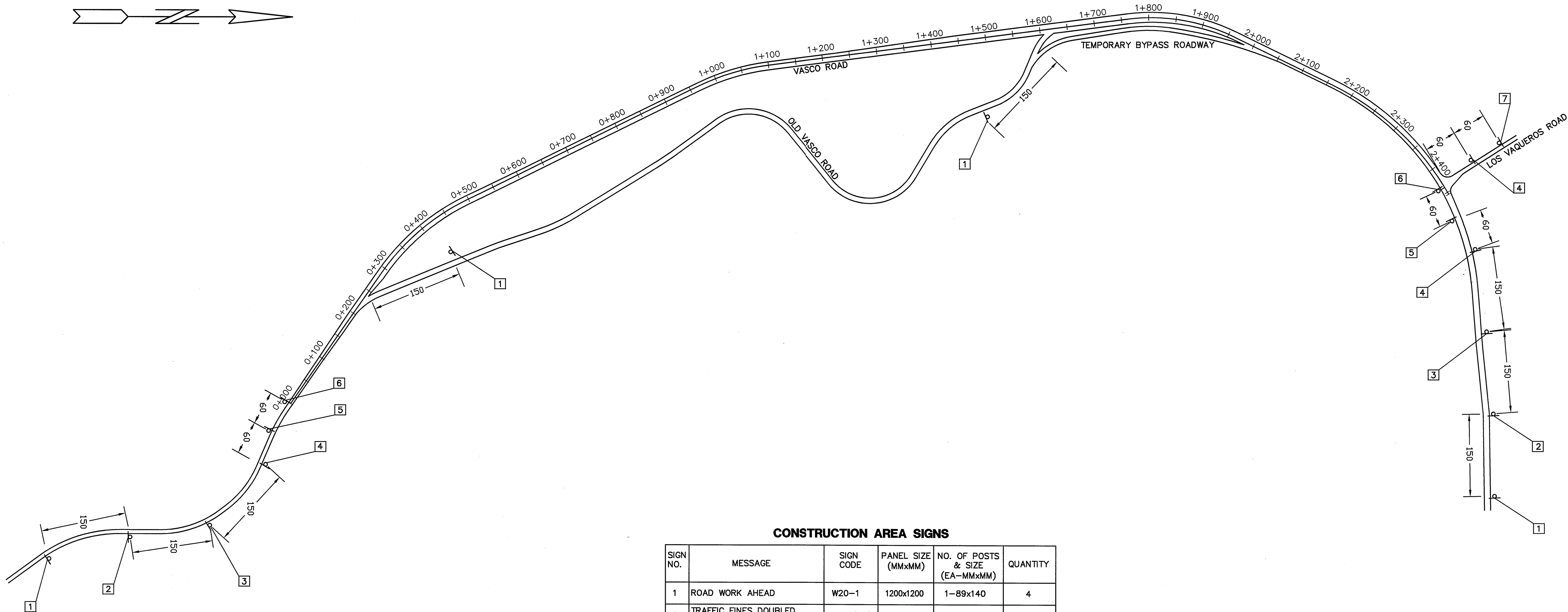
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

SIGNING & STRIPING PLAN

WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 110 OF 145
FILE NO. U-357-6

CONSTRUCTION MAINTENANCE REAL ESTATE	REVIEWED BY:	DATE:	SURVEY TRAFFIC ENVIRONMENTAL	REVIEWED BY:	DATE:

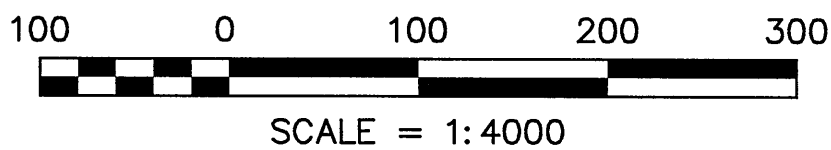
N:\ROAD\123265\Final Plan - Vasco Road 2007\Moffatt & Nichol\08Jun16 Plans\Construction Area Signs.dwg 6-16-08 04:54:04



CONSTRUCTION AREA SIGNS					
SIGN NO.	MESSAGE	SIGN CODE	PANEL SIZE (MMxMM)	NO. OF POSTS & SIZE (EA-MMxMM)	QUANTITY
1	ROAD WORK AHEAD	W20-1	1200x1200	1-89x140	4
2	TRAFFIC FINES DOUBLED IN WORK ZONES	C40A(CA)	914x914	1-89x89	2
3	25 MPH SPEED ZONE AHEAD	W3-5A	1200x1200	1-89x140	2
4	ROAD WORK/SPEED LIMIT 25	C17(CA)	610x610	1-89x89	3
5	END 25 SPEED LIMIT	C17(CA)	610x610	1-89x89	2
6	END ROAD WORK	G20-2	900x450	1-89x89	2
7	ROAD WORK AHEAD	W20-1	900x900	1-89x89	1

LEGEND

[X] CONSTRUCTION AREA SIGN NUMBER



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3	
CONSTRUCTION AREA SIGNS	
DATE: AUG 2007	SCALE: AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 111 OF 145	
FILE NO. U-357-6	

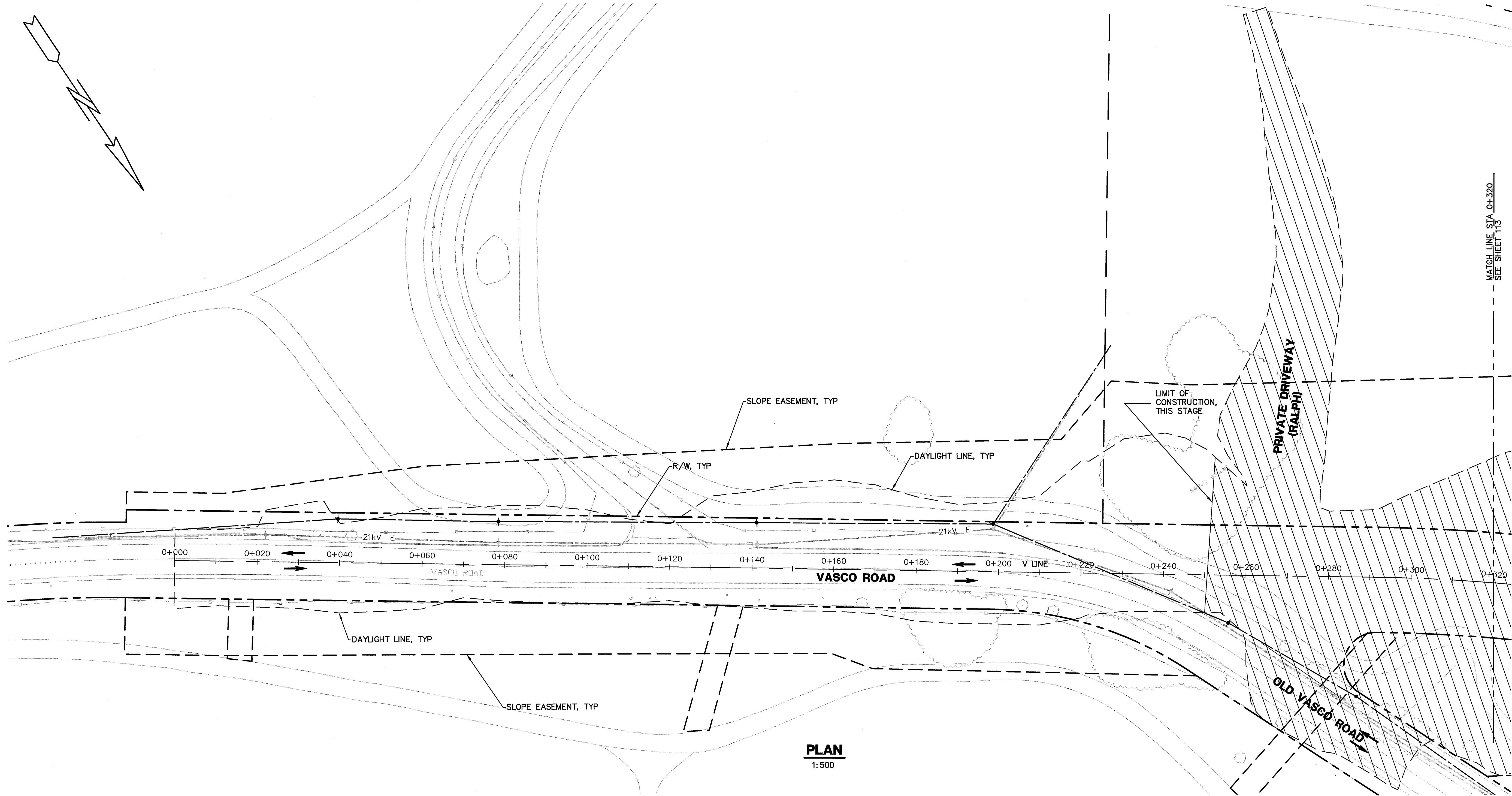
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 845-1238	
Moffatt & Nichol	
DRAWN: N. KOBAYASHI	CHECKED: T. HILLENAND
DESIGNED: S. HO	APPROVED: B. ZAHEN

REGISTERED PROFESSIONAL ENGINEER THOMAS J. HILLENAND CIVIL STATE OF CALIFORNIA No. 50767	
6-26-08	

REVISIONS		NO.	DESCRIPTION	BY	DATE	APPVD
REVISION	DESCRIPTION					

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

N:\ROAD\23265\Final Plan - Vasco Road 2007\Moffatt & Nichol\08\Jun16 Plans\Construction Stage 1.dwg 6-16-08 05:52:26 PM



PLAN
1:500

NOTES:

STAGE 1 CONSTRUCTION

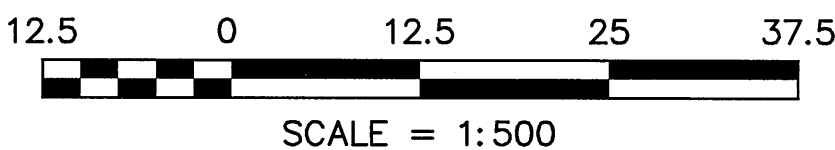
1. CONSTRUCT NEW REALIGNMENT PORTION OF VASCO ROAD
2. CONSTRUCT TEMPORARY BYPASS ROAD
3. CONSTRUCT MAINTENANCE ACCESS ROAD
4. CONSTRUCT PORTION OF NEW SOUTH INTERSECTION
5. CONSTRUCT RALPH ROAD DRIVEWAY ENTRANCE

STAGE 1 TRAFFIC

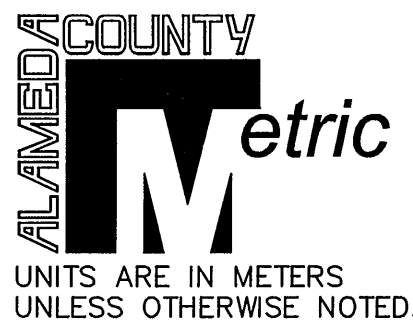
1. TRAFFIC WILL REMAIN ON EXISTING VASCO ROAD.
2. AT THE NORTHERN PORTION OF THE PROJECT, BOTH THE NB AND SB TRAFFIC WILL BE SHIFTED TO THE SB SIDE OF THE EXISTING VASCO ROAD.

LEGEND:

- CONSTRUCT THIS STAGE
- DIRECTIONAL ARROW



FOR REDUCED METRIC PLANS 0 50 mm
ORIGINAL SCALE IS IN METERS



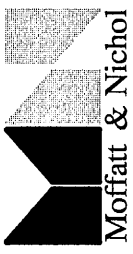
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

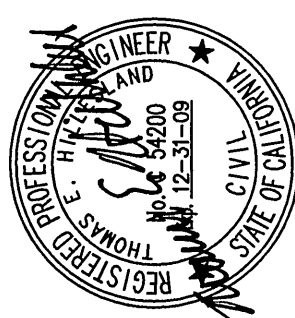
CONSTRUCTION STAGING PLAN -
STAGE 1

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	112 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1288



DRAWN:	CHECKED:
A. BOROAGWA	T. HILLISAND
DESIGNED:	APPROVED:
S. HO	B. ZENI

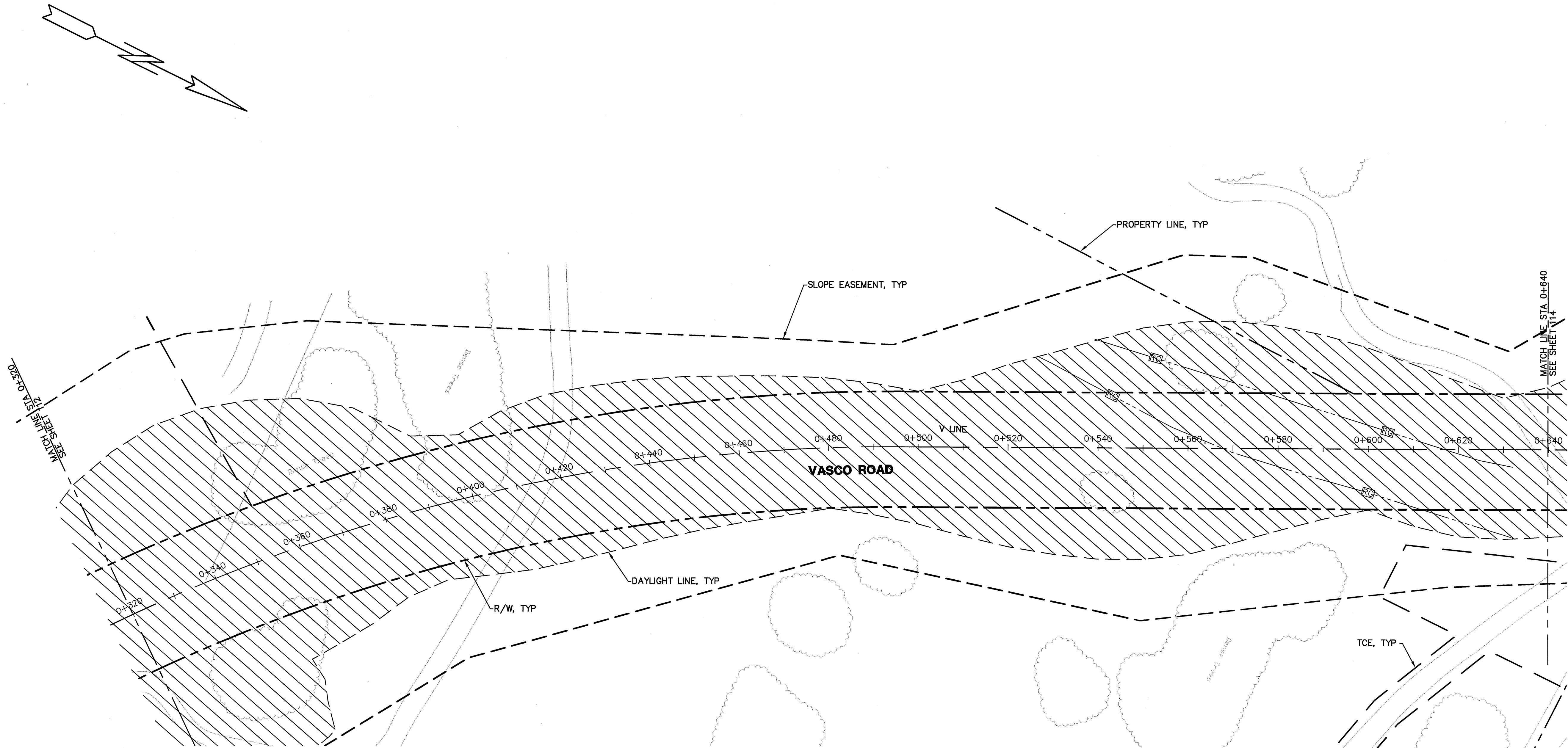


REVISIONS

NO.	DESCRIPTION	BY	DATE

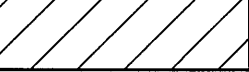
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MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

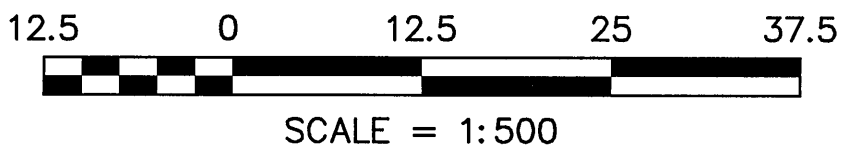
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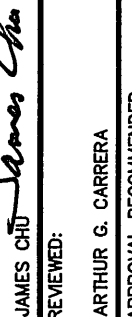
PLAN
1:500

LEGEND:

 CONSTRUCT THIS STAGE

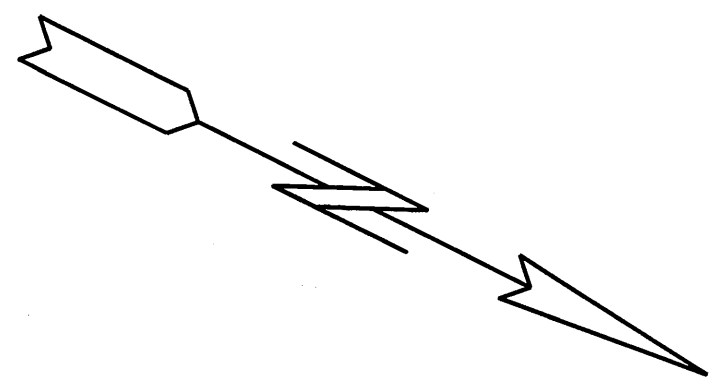


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

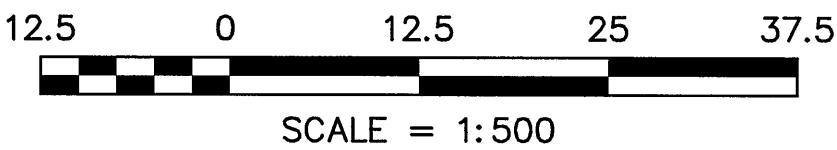
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY		THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		CONSTRUCTION STAGING PLAN - STAGE 1	
DATE	JAN 2008	SCALE	AS SHOWN		
WORK ORDER NO.	R23265				
SPECIFICATION NO.	1903				
SHEET NO.	113 OF 145				
FILE NO.	U-357-6				
REVIEWED BY: 		DESIGNED BY: 		APPROVED BY: 	
DRAWN BY: A. BOROMOVA		CHECKED BY: T. RILEY		APPROVED BY: B. ZENI	
Moffatt & Nichol		1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238		REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 45238	
REVISIONS					
NO.		DESCRIPTION		BY DATE APPVD	

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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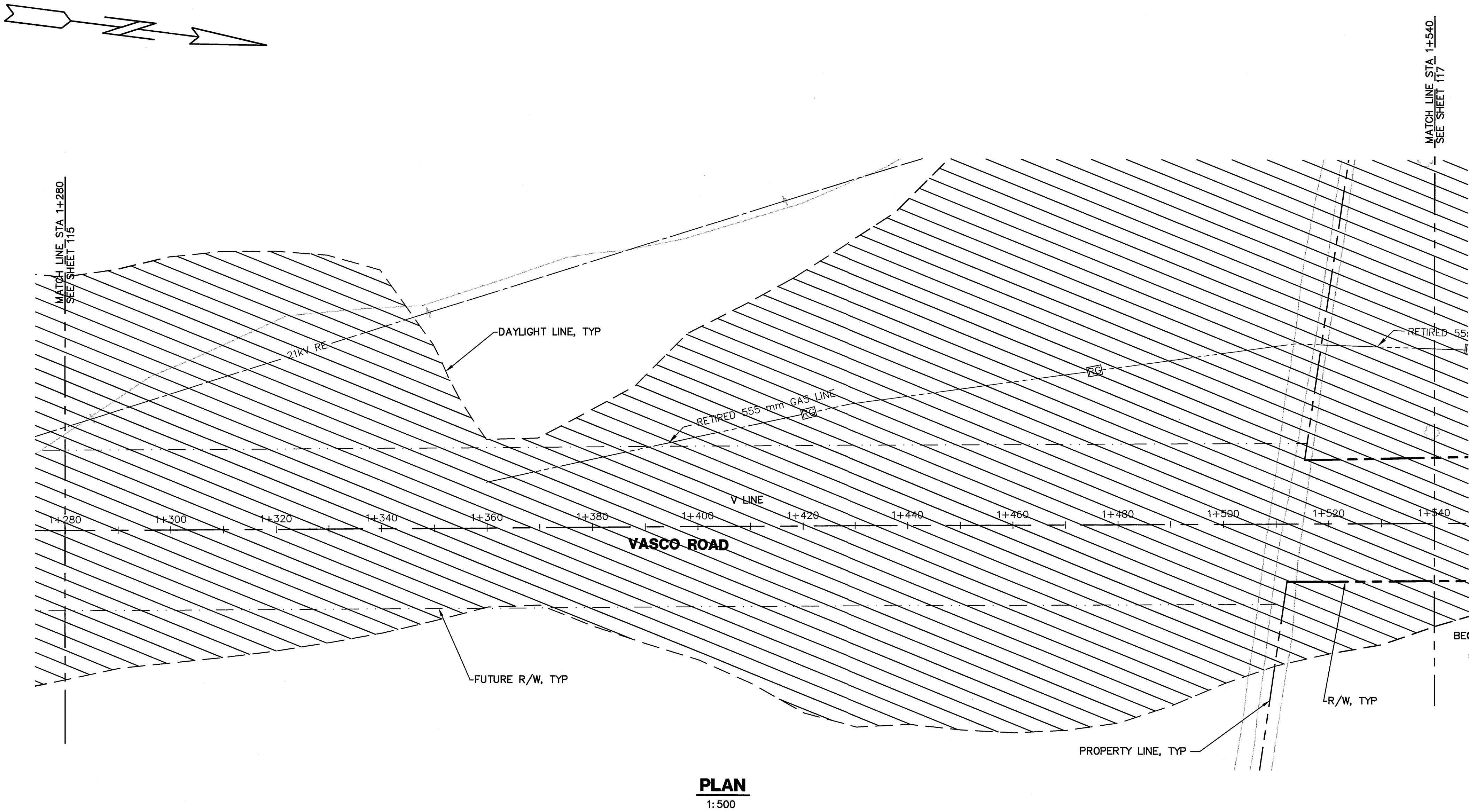
PLAN
1:500



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY		THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		CONSTRUCTION STAGING PLAN - STAGE 1	
DATE JAN 2008	SCALE AS SHOWN	WORK ORDER NO. R23265	SPECIFICATION NO. 1903	SHEET NO. 114 OF 145	FILE NO. U-357-6
REVIEWED BY: JAMES CHOI		APPROVAL RECOMMENDED: STANLEY W. FUNG		APPROVED: T. HILLESAND	
DESIGNED BY: S. HO		CHECKED BY: T. HILLESAND		APPROVED BY: B. ZAHN	
DRAFTSMAN: A. BROOKOVA		PROJECT ENGINEER: M. HILLESAND		REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 62608	
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238		Moffatt & Nichol		REVISIONS	
				NO.	
				DESCRIPTION	
				BY	
				DATE	
				APPVD	

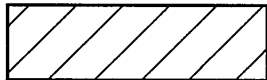
CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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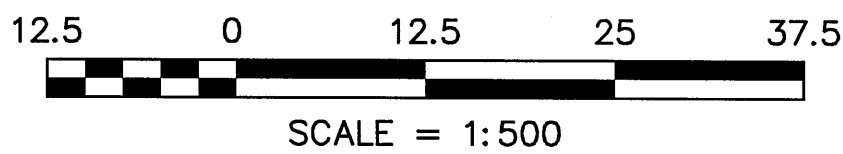


PLAN
1:500

LEGEND:



CONSTRUCT THIS STAGE



FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 CONSTRUCTION STAGING PLAN - STAGE 1	
REVIEWED: <i>[Signature]</i> DRAWN: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: <i>[Signature]</i>	DATE: JAN 2008 SCALE: AS SHOWN WORK ORDER NO.: R23265 SPECIFICATION NO.: 1903 SHEET NO.: 116 OF 145 FILE NO.: U-357-6

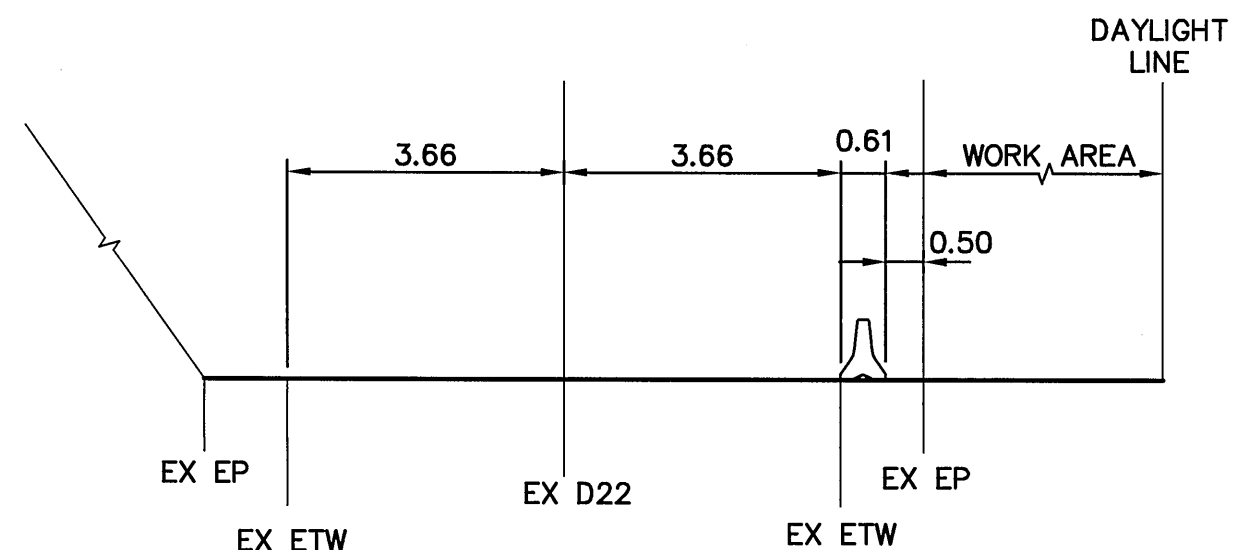
Moffatt & Nichol 1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1236	CHECKED: T. HILLESAND APPROVED: B. ZAHN
---	--

REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA 6-16-08	NO. 117 DESCRIPTION BY DATE APPV'D
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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPV'D

N:\ROAD\23265\~Final Plan - Vasco Road 2007\Moffatt & Nichol\08Jun16 Plans\Construction Stage 1\623801-Construction Stage 1.dwg 6-16-08 05:54:31 PM



12.5 0 12.5 25 37.5



SCALE = 1:500

FOR REDUCED METRIC PLANS 0 50 mm
ORIGINAL SCALE IS IN METERS

80-92-9



Koff & Moffatt & Nichol

**THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3**

CONSTRUCTION STAGING PLAN - STAGE 1

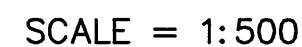
DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 117 OF 145	
FILE NO. U-357-6	

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED

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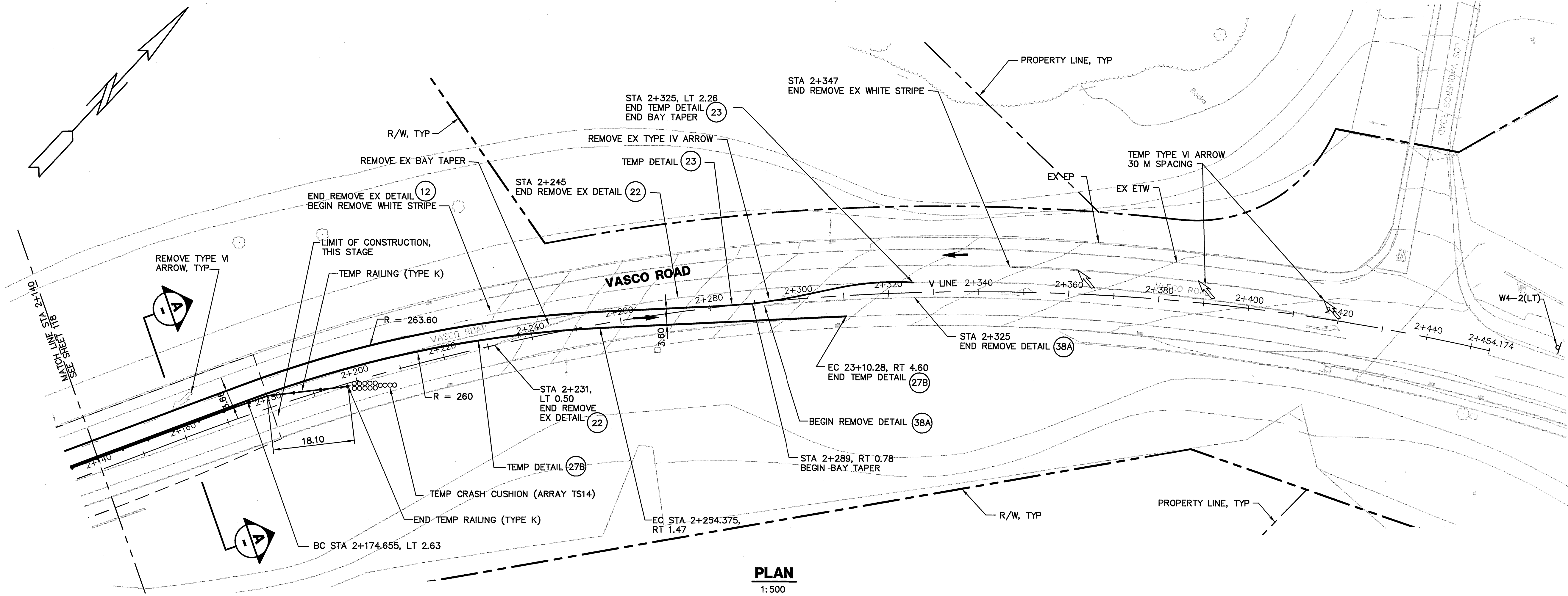
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY	REVIEWED: _____ BOND NO. _____ REMARKS: _____ JAMES CHU
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 CONSTRUCTION STAGING PLAN - STAGE 1	REVIEWED: _____ APPROVAL: ARTHUR G. CARRERA RECOMMENDED: _____ STANLEY W. FENG

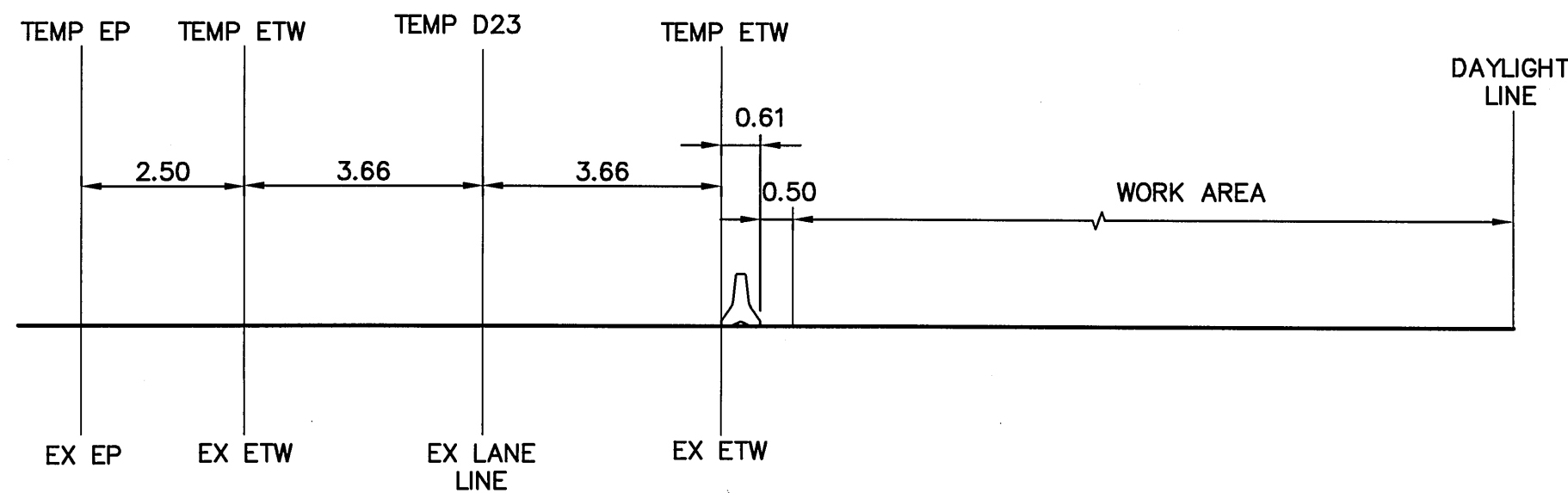
DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 118 OF 145	
FILE NO. U-357-6	

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				

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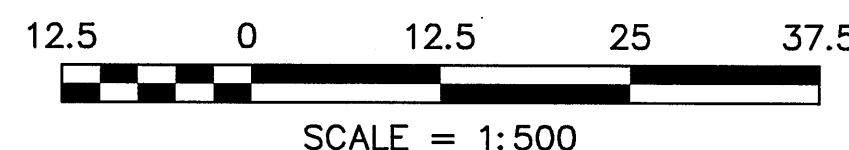
PLAN
1:500



SECTION A
SCALE 1:100 (V LINE STA 2+160)

LEGEND:

- CONSTRUCT THIS STAGE
- TEMP RAILING (TYPE K)
- TEMP SIGN
- TEMP RAILING (TYPE K)
- TEMP CRASH CUSHION (ARRAY TS14)
- DIRECTIONAL ARROW



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3	
CONSTRUCTION STAGING PLAN - STAGE 1	
DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 119 OF 145	
FILE NO. U-357-6	

1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288 Moffatt & Nichol	CHECKED: T. HILLESAND APPROVED: B. ZAHN
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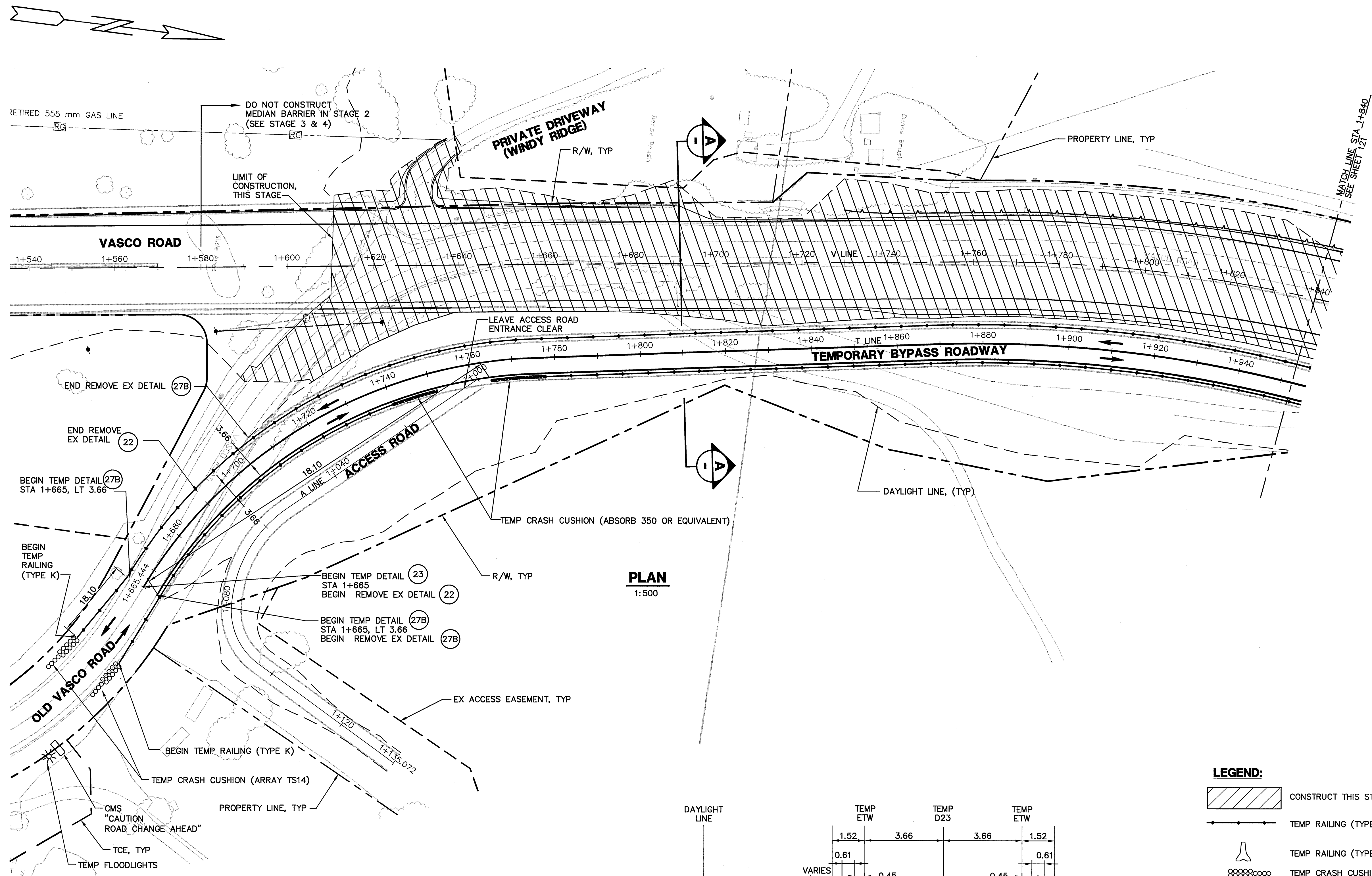
REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 62380 Exp. 12-31-08	6-26-08
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NO.	DESCRIPTION	BY	DATE	APPROVED

REVISIONS

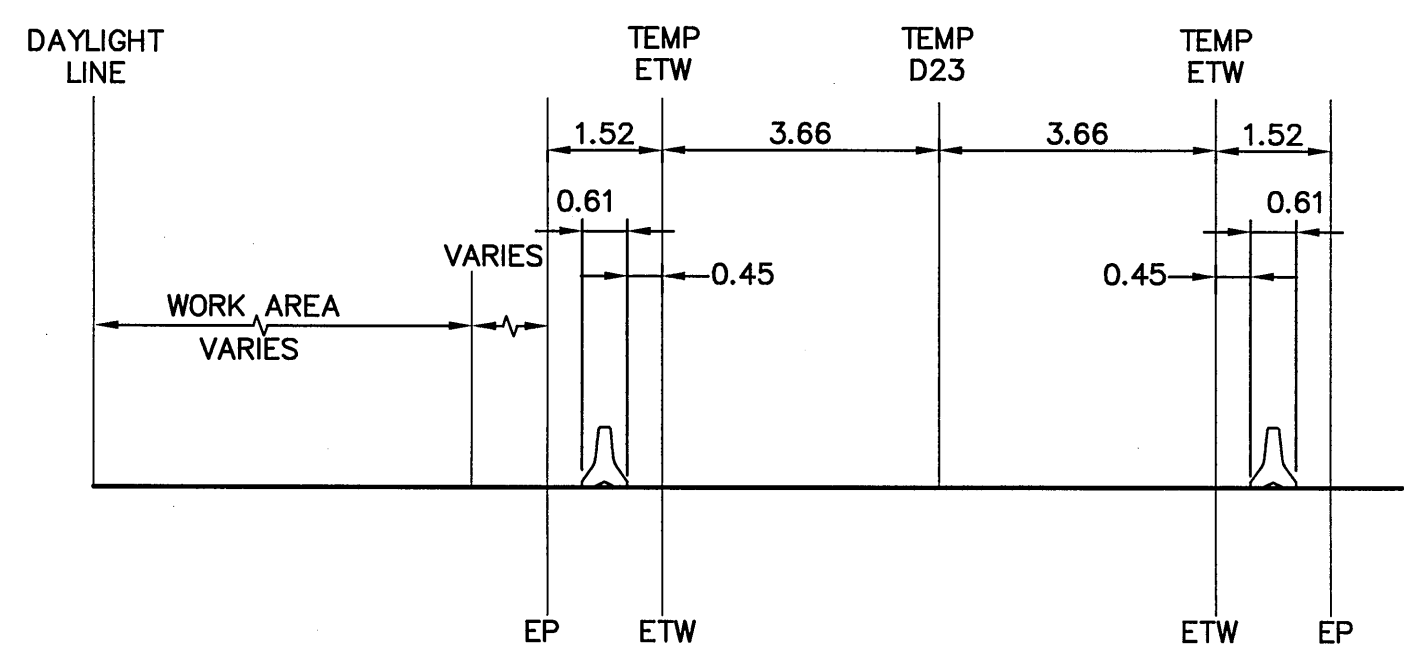
CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	SURVEY	TRAFFIC
REAL ESTATE	ENVIRONMENTAL	

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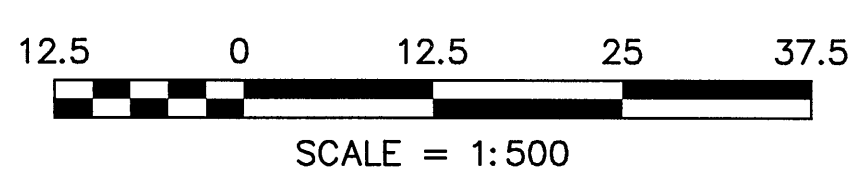


PLAN
1:500

- NOTES:**
- STAGE 2 CONSTRUCTION**
1. CONSTRUCT NORTHERN PORTION OF VASCO ROAD FROM THE LIMIT OF THE REALIGNMENT TO LOS VAQUEROS ROAD.
 2. CONSTRUCT WINDY RIDGE DRIVEWAY IMPROVEMENTS.
- STAGE 2 TRAFFIC**
1. TRAFFIC ON THE NORTHERN PORTION OF VASCO ROAD IS SHIFTED TO THE TEMPORARY BYPASS ROAD
 2. PROVIDE OPENING IN TEMPORARY RAILING (TYPE K) ON THE TEMPORARY BYPASS ROAD FOR THE MAINTENANCE ACCESS ROAD
 3. PROVIDE SAFE ACCESS TO WINDY RIDGE DRIVEWAY AT ALL TIMES DURING CONSTRUCTION.



SECTION A
SCALE 1:100 (T LINE STA 1+810)



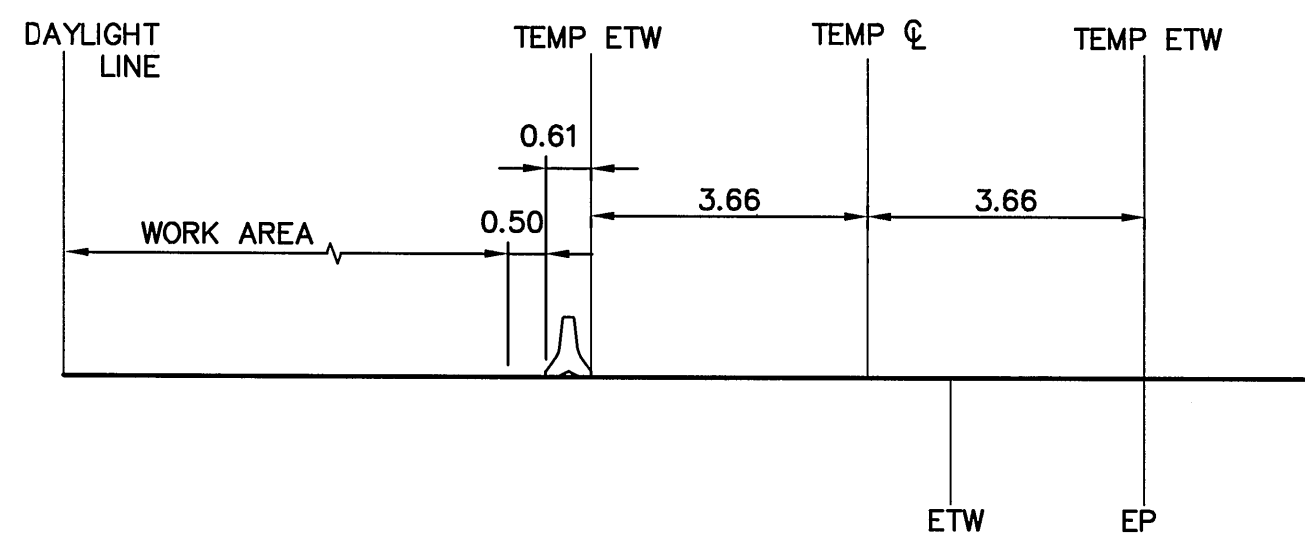
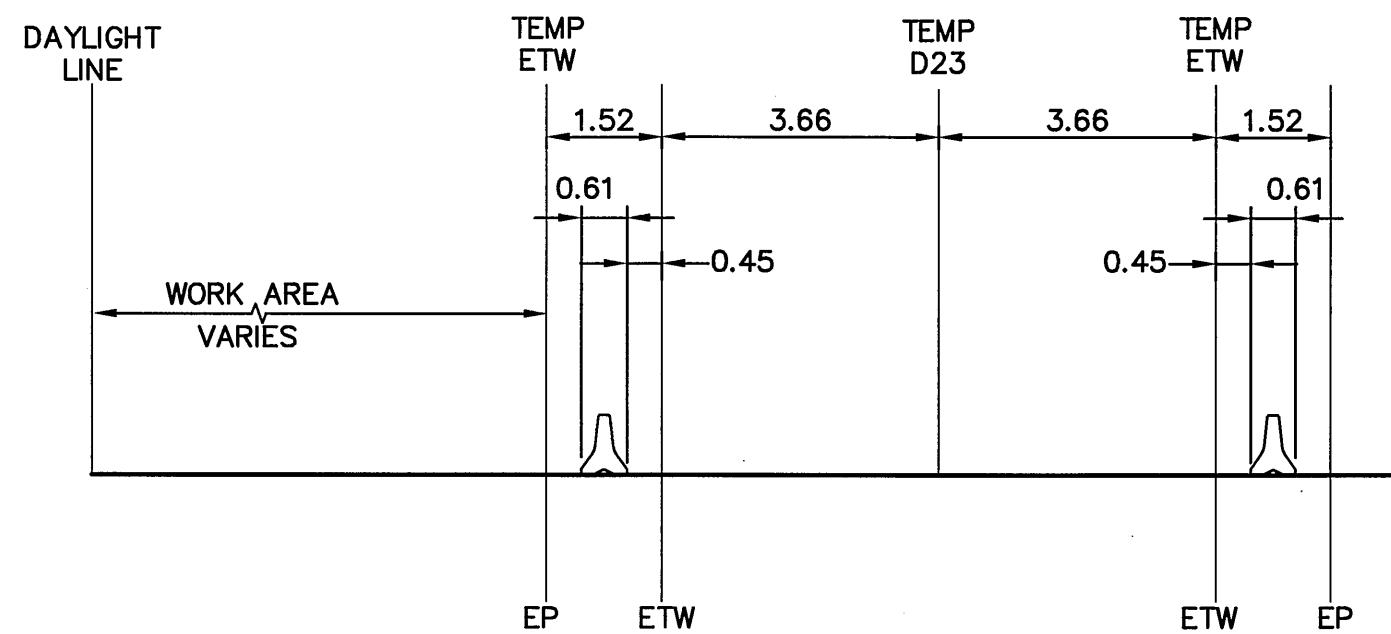
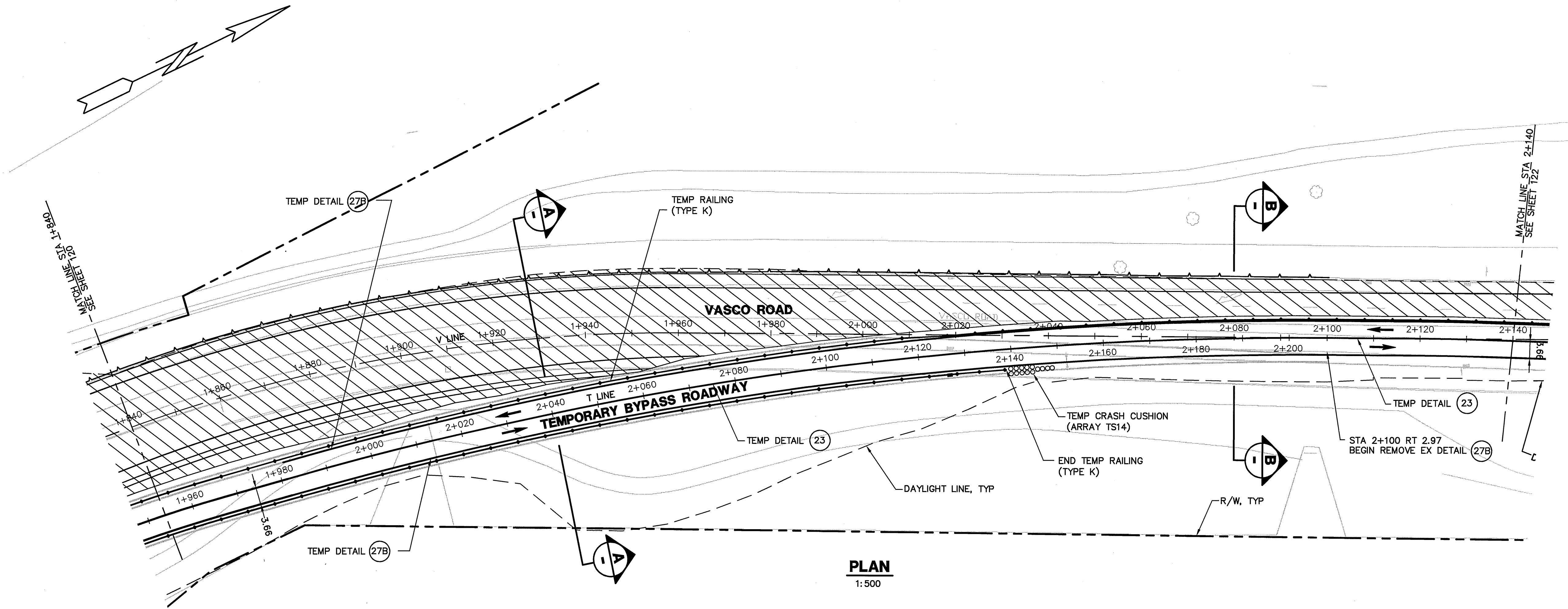
- LEGEND:**
- CONSTRUCT THIS STAGE
 - TEMP RAILING (TYPE K)
 - TEMP RAILING (TYPE K)
 - TEMP CRASH CUSHION (ARRAY TS14)
 - TEMP FLOOD LIGHTS
 - (CMS) CHANGEABLE MESSAGE SIGN
 - DIRECTIONAL ARROW
 - TEMP CRASH CUSHION (ABSORB 350 OR EQUIVALENT)

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

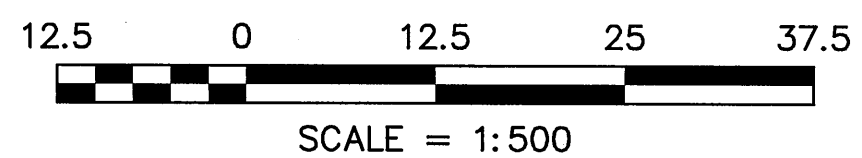
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NO.	DESCRIPTION	BY	DATE	APP'D																							
DATE: JAN 2008 SCALE: AS SHOWN WORK ORDER NO.: R23265 SPECIFICATION NO.: 1903 SHEET NO.: 120 OF 145 FILE NO.: U-357-6		DESIGNED BY: T. HILLESAND CHECKED BY: T. HILLESAND APPROVED BY: B. ZAHN DATE: 6-26-08 PROJECT NO.: 623801																									

CONSTRUCTION	REVIEWED BY:	DATE:	SURVEY	REVIEWED BY:	DATE:
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

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- LEGEND:**
- CONSTRUCT THIS STAGE
 - TEMP RAILING (TYPE K)
 - TEMP RAILING (TYPE K)
 - TEMP CRASH CUSHION (ARRAY TS14)
 - DIRECTIONAL ARROW

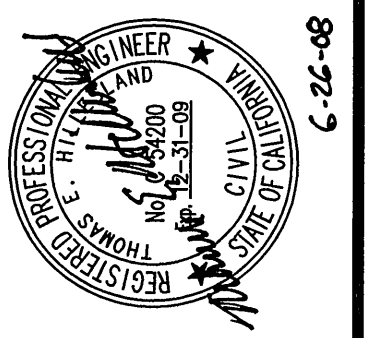


ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
CONSTRUCTION STAGING PLAN -
STAGE 2

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	121 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1238	CHECKED: T. WILSON APPROVED: B. ZAHN
DESIGNED: S. HO	REVIEWED: JAMES CHU
APPROVAL RECOMMENDED: STANLEY W. FUNG	REVIEWED: JAMES CHU

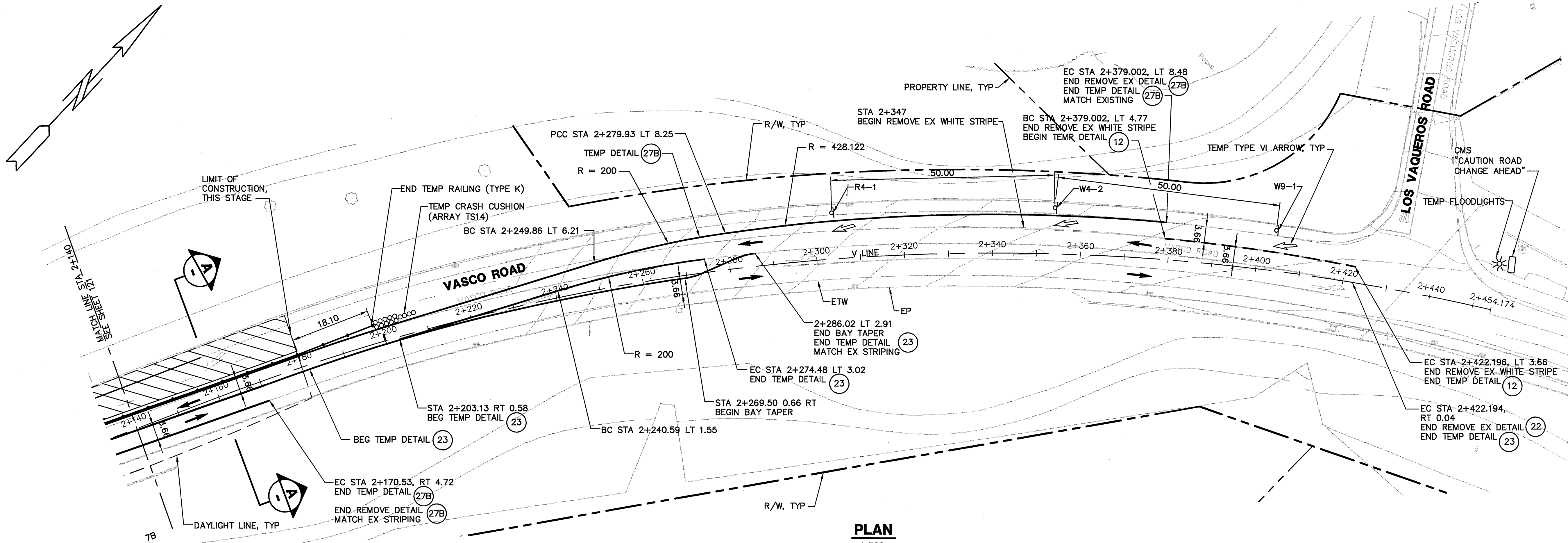


NO.	DESCRIPTION	BY	DATE	APP'D

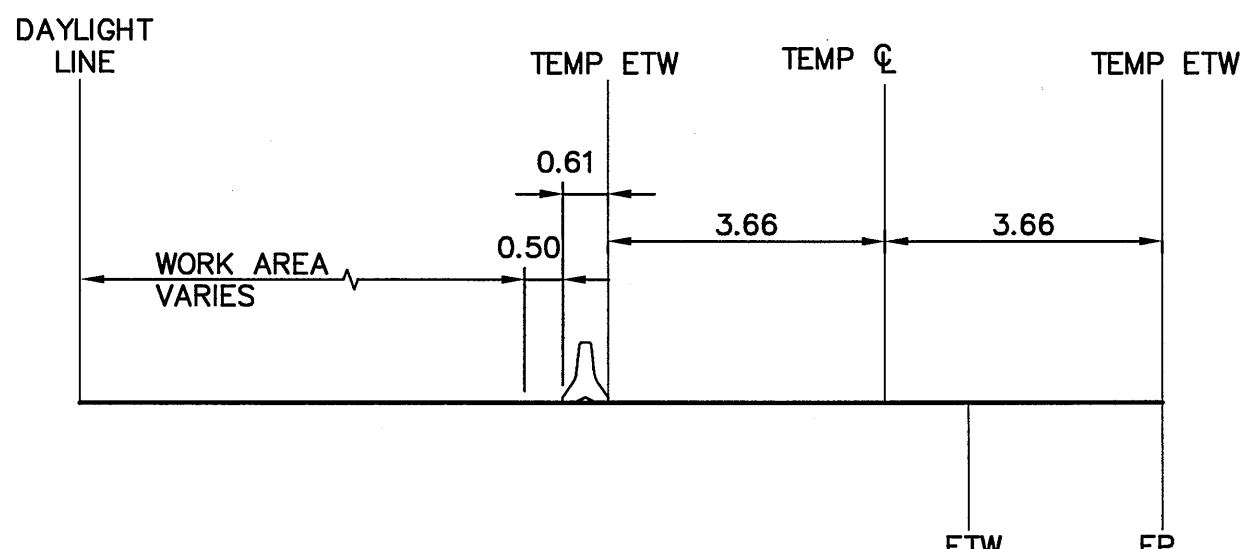
FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	SURVEY	TRAFFIC
REAL ESTATE	ENVIRONMENTAL	

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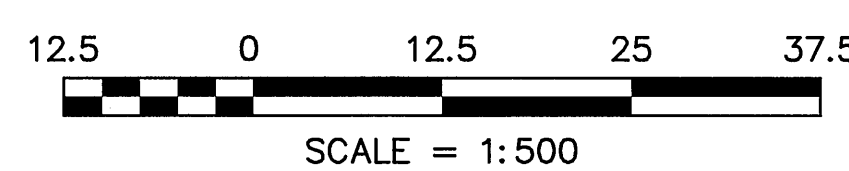
PLAN
1:500



SECTION A-A
SCALE 1:100 (V LINE STA 2+160)

- NOTES:**
1. STAGE 1 TEMPORARY STRIPING AND MARKINGS ARE NOT SHOWN.
 2. REMOVE CONFLICTING STAGE 1 TEMPORARY STRIPING AND MARKINGS.

- LEGEND:**
- CONSTRUCT THIS STAGE
 - TEMP RAILING (TYPE K)
 - TEMP SIGN
 - TEMP RAILING (TYPE K)
 - TEMP FLOOD LIGHTS
 - (CMS) CHANGEABLE MESSAGE SIGN
 - TEMP CRASH CUSHION (ARRAY TS14)
 - DIRECTIONAL ARROW



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

**THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3**

**CONSTRUCTION STAGING PLAN -
STAGE 2**

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	122 OF 145
FILE NO.	U-357-6

**1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238**

Moffatt & Nichol

**DESIGNED BY: A. BODONOVIA
CHECKED BY: T. WILSON
APPROVED BY: B. ZABENI**

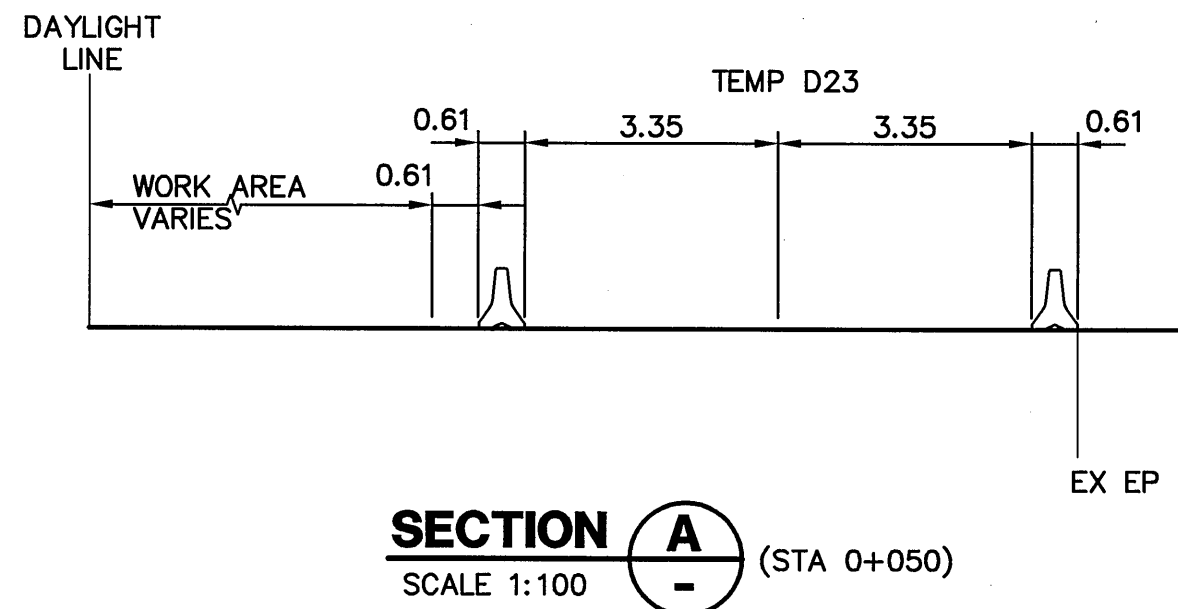
REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED
1				
2				
3				
4				
5				

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE		
REAL ESTATE		

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE		
REAL ESTATE		

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE		
REAL ESTATE		



SECTION A
SCALE 1:100 (STA 0+050)

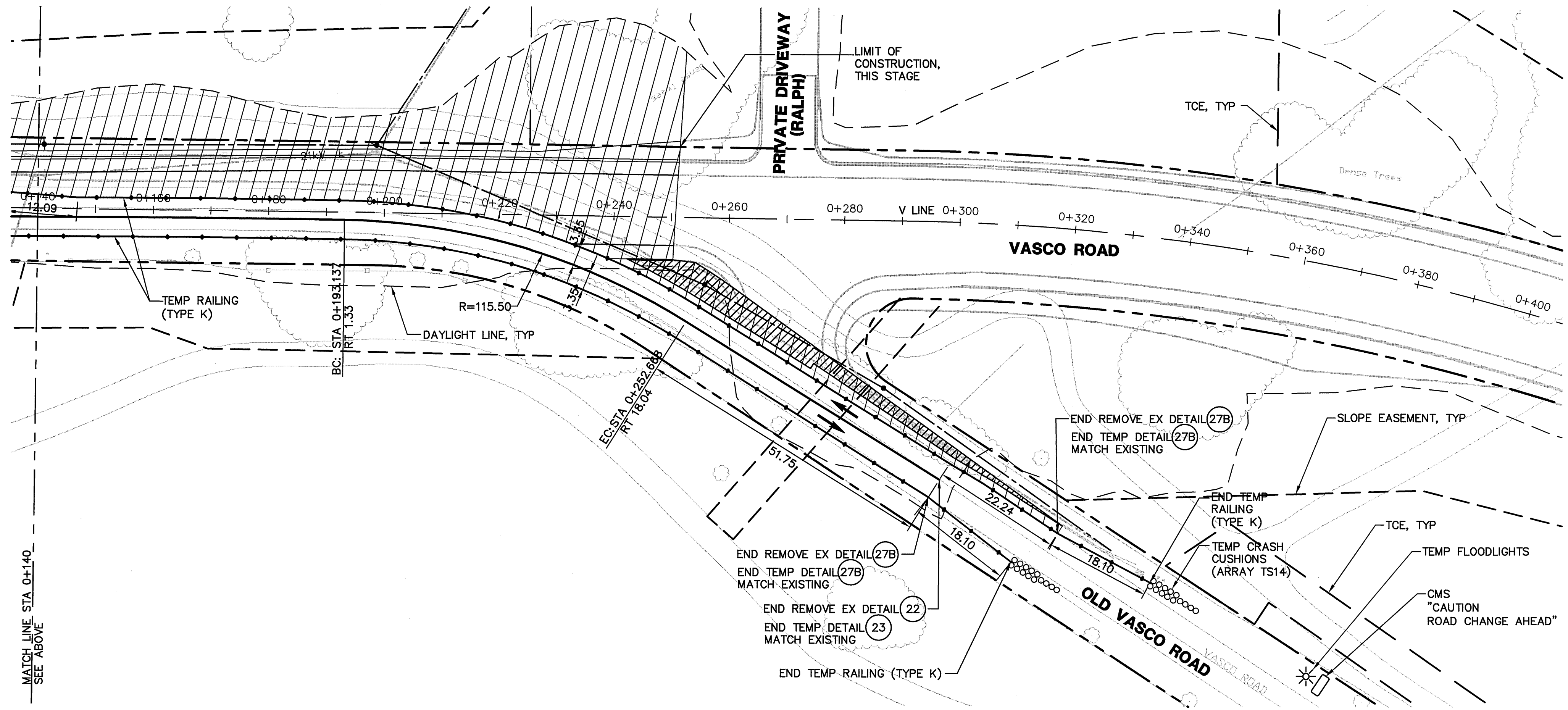
NOTES:

STAGE 2A CONSTRUCTION

1. RECONSTRUCT THE SB SIDE OF EXISTING VASCO ROAD FROM THE SOUTHERN PROJECT LIMIT TO THE BEGINNING OF THE REALIGNMENT.
2. CONSTRUCT TEMPORARY PAVEMENT TO ACCOMMODATE TRAFFIC FOR FUTURE STAGE 2B CONSTRUCTION WORK.

STAGE 2A TRAFFIC

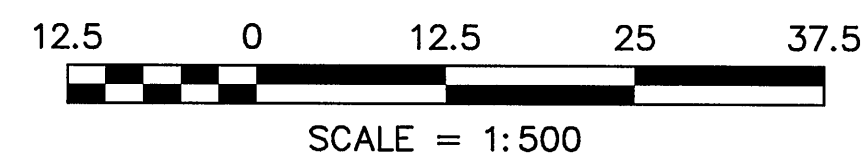
1. NB AND SB TRAFFIC ARE SHIFTED TO THE NB SIDE OF EXISTING VASCO ROAD.
2. MAINTAIN EXISTING DRIVEWAY ACCESS.



PLAN
1:500

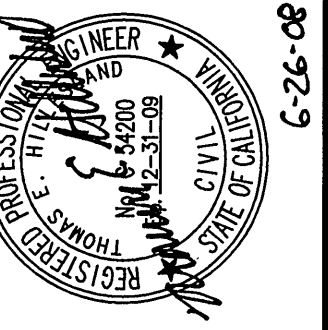
LEGEND:

- CONSTRUCT THIS STAGE
- TEMP PAVEMENT
- TEMP RAILING (TYPE K)
- TEMP RAILING (TYPE K)
- TEMP CRASH CUSHION (ARRAY TS14)
- TEMP FLOOD LIGHTS
- (CMS) CHANGEABLE MESSAGE SIGN
- DIRECTIONAL ARROW



FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

REVISIONS	NO.	DESCRIPTION	BY	DATE	APP'D



1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 645-1288	CHECKED: T. JILES	DESIGNED: B. ZAHN
DRAWN: A. BROWNOVA	APPROVED: S. HO	

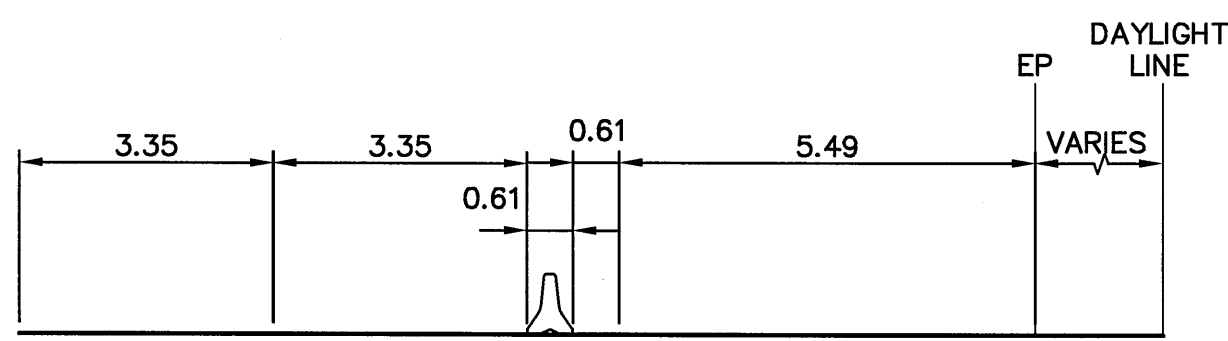
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	REVIEWED: BOND NG
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3	REVIEWED: JAMES CHU
CONSTRUCTION STAGING PLAN - STAGE 2A	REVIEWED: ARTHUR G. CASPERA
	APPROVE/RECOMMEND: STANLEY W. FONG

DATE JAN 2008	SCALE AS SHOWN
WORK ORDER NO. R23265	
SPECIFICATION NO. 1903	
SHEET NO. 123 OF 145	
FILE NO. U-357-6	



CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
ENVIRONMENTAL				
TRAFFIC				
SURVEY				

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SECTION A
SCALE 1:100 (STA 0+100)

NOTES:

STAGE 2B CONSTRUCTION

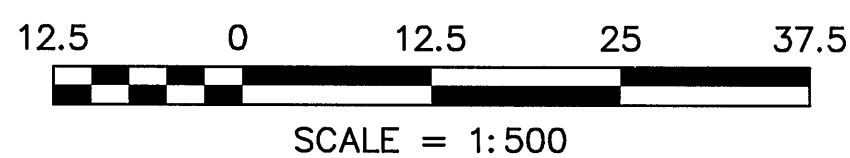
1. RECONSTRUCT NB SIDE OF EXISTING VASCO ROAD FROM SOUTHERN PROJECT LIMIT TO THE BEGINNING OF THE REALIGNMENT.
2. CONSTRUCT TEMPORARY PAVEMENT TO ACCOMMODATE TRAFFIC FOR FUTURE STAGE 2C CONSTRUCTION WORK.
3. STAGE 2A TEMPORARY STRIPING NOT SHOWN.
4. REMOVE CONFLICTING STAGE 2A TEMPORARY STRIPING.

STAGE 2B TRAFFIC

1. NB AND SB TRAFFIC ARE SHIFTED TO THE SB SIDE OF EXISTING VASCO ROAD.

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

PLAN
SCALE = 1:500



LEGEND:

- CONSTRUCT THIS STAGE
- TEMP PAVEMENT
- TEMP RAILING (TYPE K)
- TEMP RAILING (TYPE K)
- TEMP CRASH CUSHION (ARRAY TS14)
- TEMP FLOOD LIGHTS
- (CMS) CHANGEABLE MESSAGE SIGN
- DIRECTIONAL ARROW

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

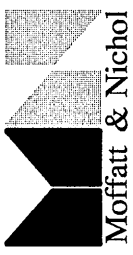
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

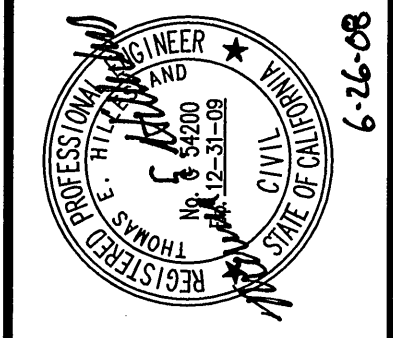
STAGE 2B CONSTRUCTION

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	124 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238



REVIEWED BY:	DESIGNED BY:
BOND NO. 20	STANLEY W. FUNG
REVIEWER: JAMES CHU	APPROVAL: RECOMMENDED
REVIEWER: JAMES CHU	APPROVAL: RECOMMENDED
REVIEWER: JAMES CHU	APPROVAL: RECOMMENDED

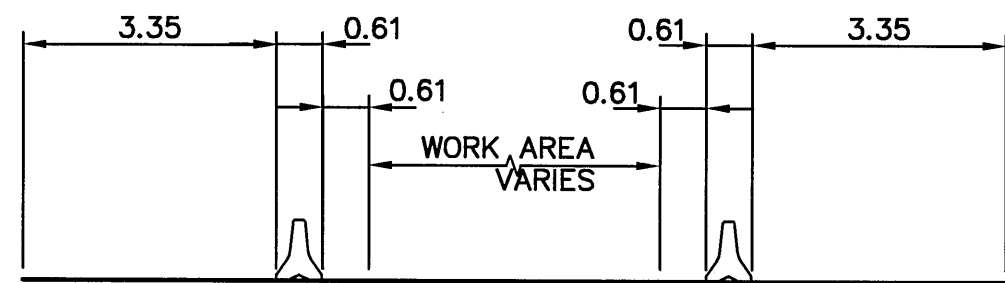


REVISIONS

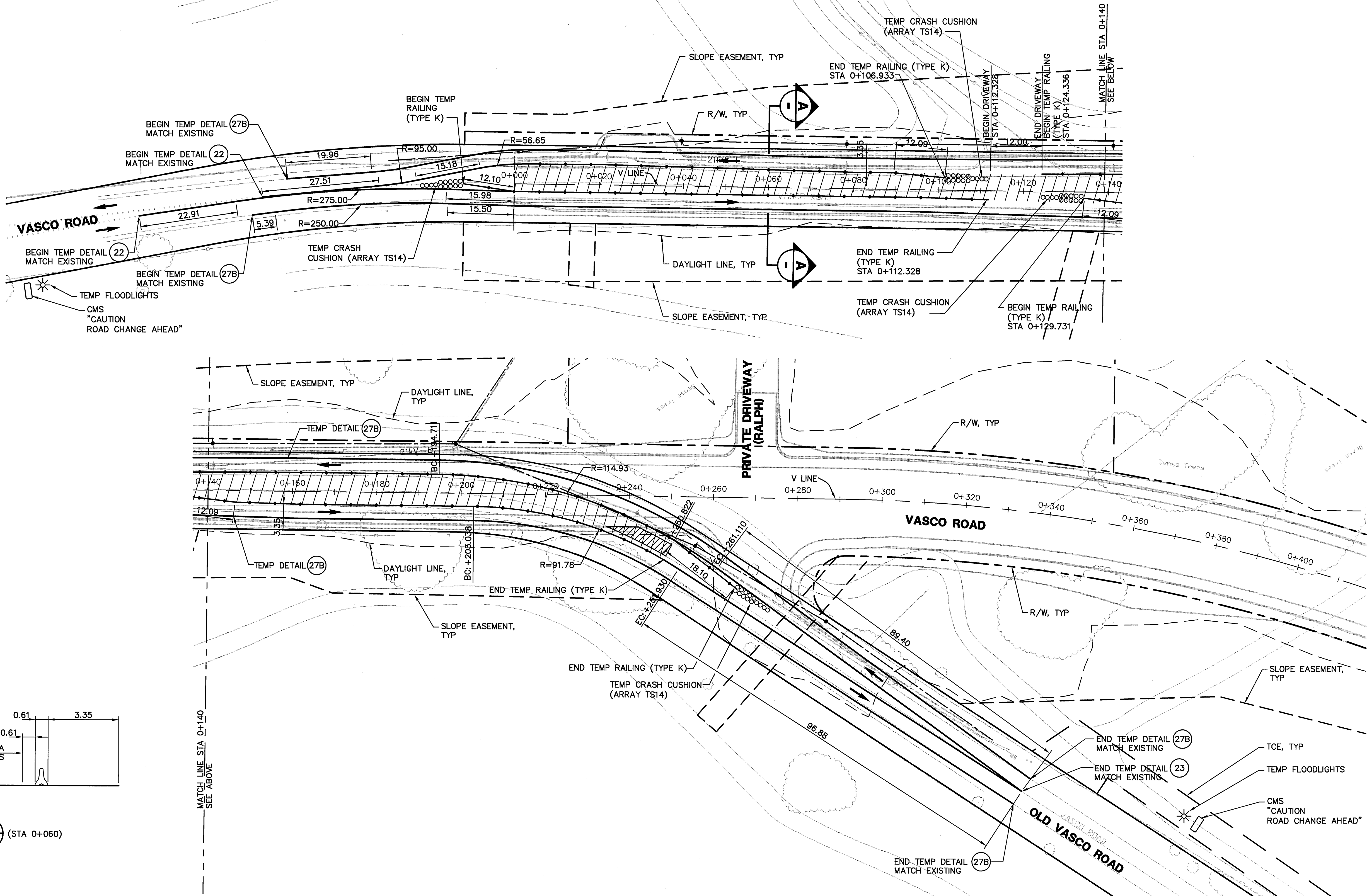
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3				
4				
5				

CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE	SURVEY	TRAFFIC
REAL ESTATE	ENVIRONMENTAL	

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SECTION A
SCALE 1:100 (STA 0+060)



NOTES:

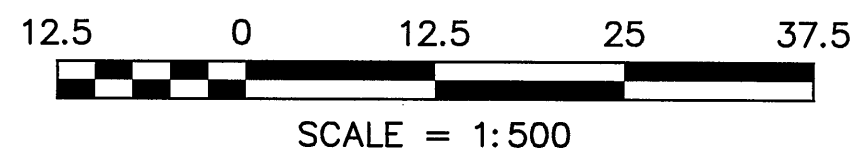
STAGE 2C CONSTRUCTION

1. RECONSTRUCT REMAINING CENTER PORTION OF EXISTING VASCO ROAD FROM SOUTHERN PROJECT LIMIT TO THE BEGINNING OF THE REALIGNMENT.
2. STAGE 2B TEMPORARY STRIPING NOT SHOWN.
3. REMOVE CONFLICTING STAGE 2A AND 2B TEMPORARY STRIPING.

STAGE 2C TRAFFIC

1. NB AND SB TRAFFIC IS SPLIT AROUND THE CENTER CONSTRUCTION AREA.
2. MAINTAIN EXISTING DRIVEWAY ACCESS.

PLAN
1:500



LEGEND:

- CONSTRUCT THIS STAGE
- TEMP PAVEMENT
- TEMP RAILING (TYPE K)
- TEMP RAILING (TYPE K)
- TEMP CRASH CUSHION (ARRAY TS14)
- TEMP FLOOD LIGHTS
- (CMS) CHANGEABLE MESSAGE SIGN
- DIRECTIONAL ARROW

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

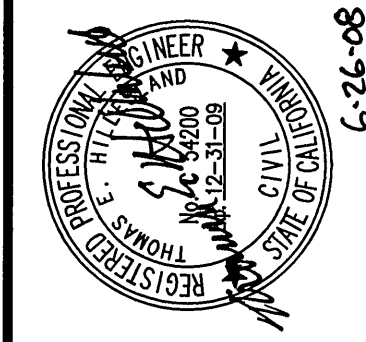
CONSTRUCTION STAGING PLAN -
STAGE 2C

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	125 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238

Mofatt & Nichol

REVIEWED:	DESIGNED:
BOND NG	STANLEY W. FUNG
REVIEWED:	APPROVED:
JAMES CHU	ARTURO G. CARRERA
REVIEWED:	APPROVED:
ARTURO G. CARRERA	T. MILES AND
APPROVAL RECOMMENDED:	APPROVED:
STANLEY W. FUNG	B. ZHEN

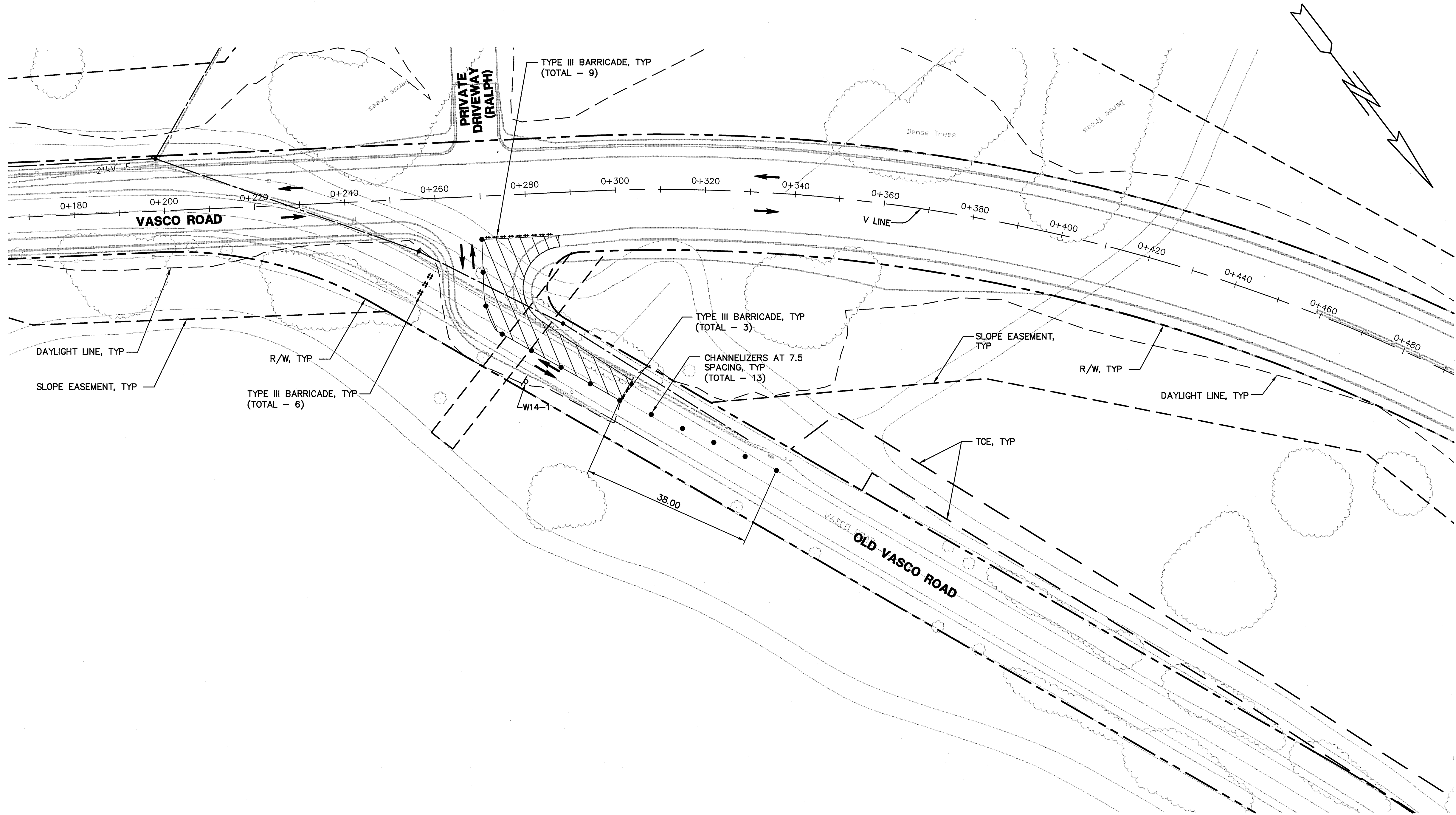


REVISIONS

NO.	DESCRIPTION	BY	DATE	APP'D
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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY		TRAFFIC	
	ENVIRONMENTAL			

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PLAN
1:500

NOTES:

STAGE 3 CONSTRUCTION

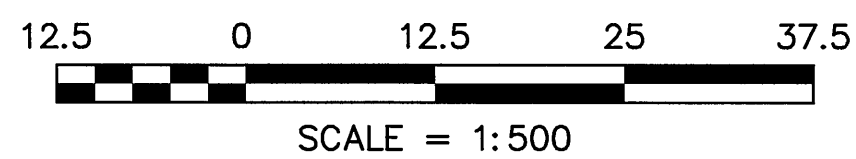
1. CONSTRUCT CONCRETE BARRIER ON NORTHERN PORTION OF VASCO ROAD.
2. CONSTRUCT NORTHBOUND SIDE ON THE NORTHERN PORTION OF VASCO ROAD, INCLUDING CATCH SLOPES IN THE AREA OF TEMPORARY BYPASS ROAD.
3. CONSTRUCT OLD VASCO ROAD CUL-DE-SAC (MOOREHEAD).
4. CONSTRUCT EMERGENCY VEHICLE ACCESS ROAD (EVA) CONNECTION FROM TEMPORARY BYPASS ROAD TO VASCO ROAD.
5. CONSTRUCT PORTION OF SOUTH INTERSECTION.
6. REMOVE CONFLICTING STAGE 2A, 2B AND 2C TEMPORARY STRIPING.

STAGE 3 TRAFFIC

1. RESTRIPE AND SHIFT NB AND SB TRAFFIC ONTO REALIGNED VASCO ROAD.
2. AT NORTHERN END, SHIFT NB AND SB TRAFFIC ONTO SB SIDE OF VASCO ROAD.
3. MAINTAIN LOCAL ACCESS TO SOUTH INTERSECTION AT ALL TIMES.

LEGEND:

-  CONSTRUCT THIS STAGE
-  TEMP RAILING (TYPE K)
-  TEMP SIGN
-  CHANNELIZER
-  DIRECTIONAL ARROW
-  TYPE III BARRICADE



FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



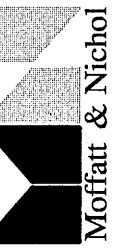
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

CONSTRUCTION STAGING PLAN -
STAGE 3

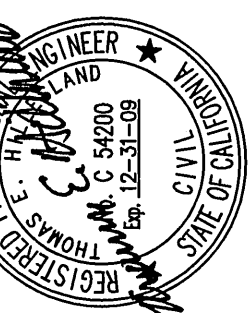
DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	126 OF 145
FILE NO.	U-357-6

REVIEWED: BOND NO.	DESIGNED: STANLEY W. FUNG
REVIEWED: JAMES CHU	APPROVAL RECOMMENDED: STANLEY W. FUNG
REVIEWED: JAMES CHU	APPROVED: STANLEY W. FUNG



1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 545-1238

DRAWN: A. BODOLSKOVA	CHECKED: T. HULESAND
DESIGNED: S. HO	APPROVED: B. ZERN



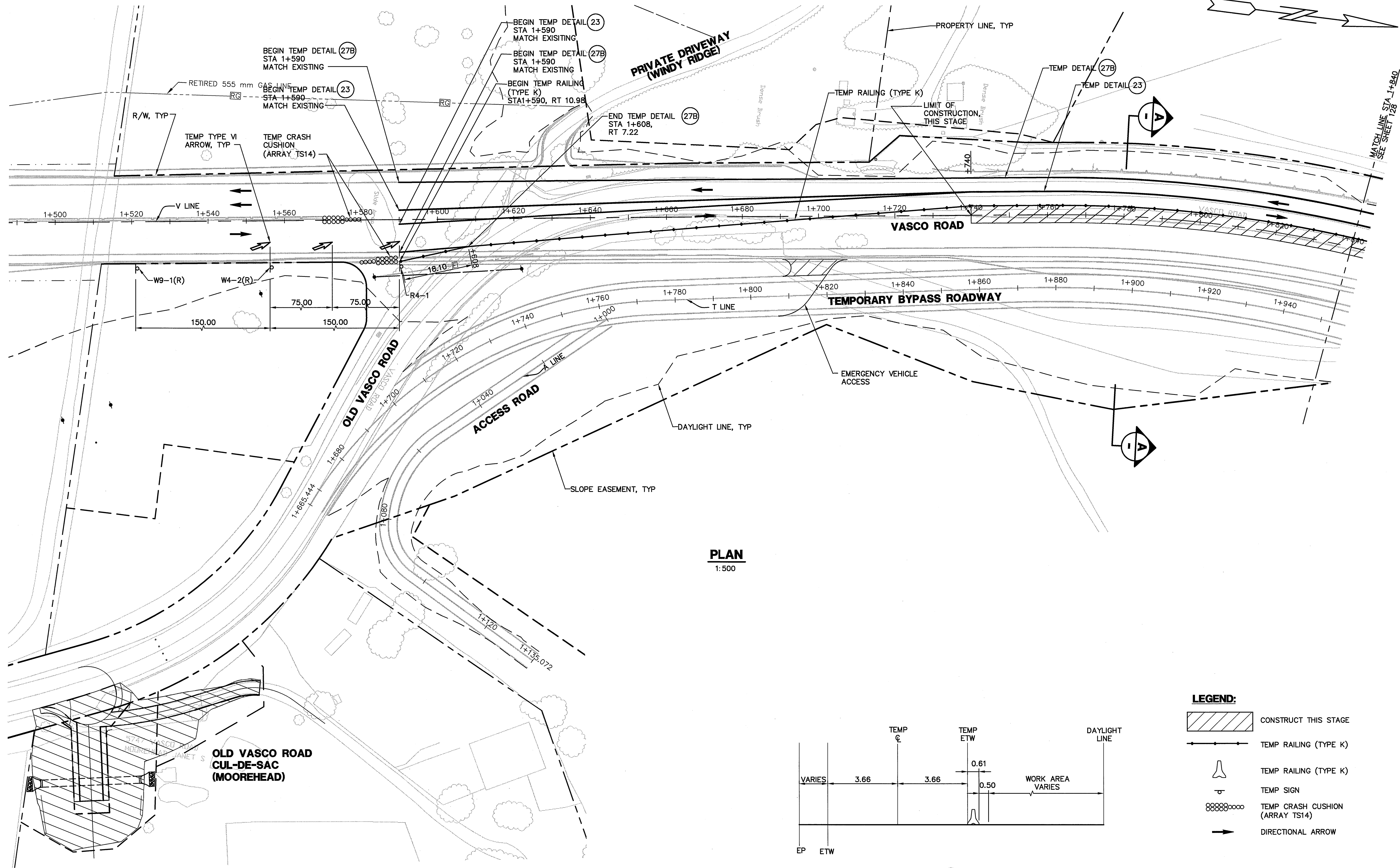
REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
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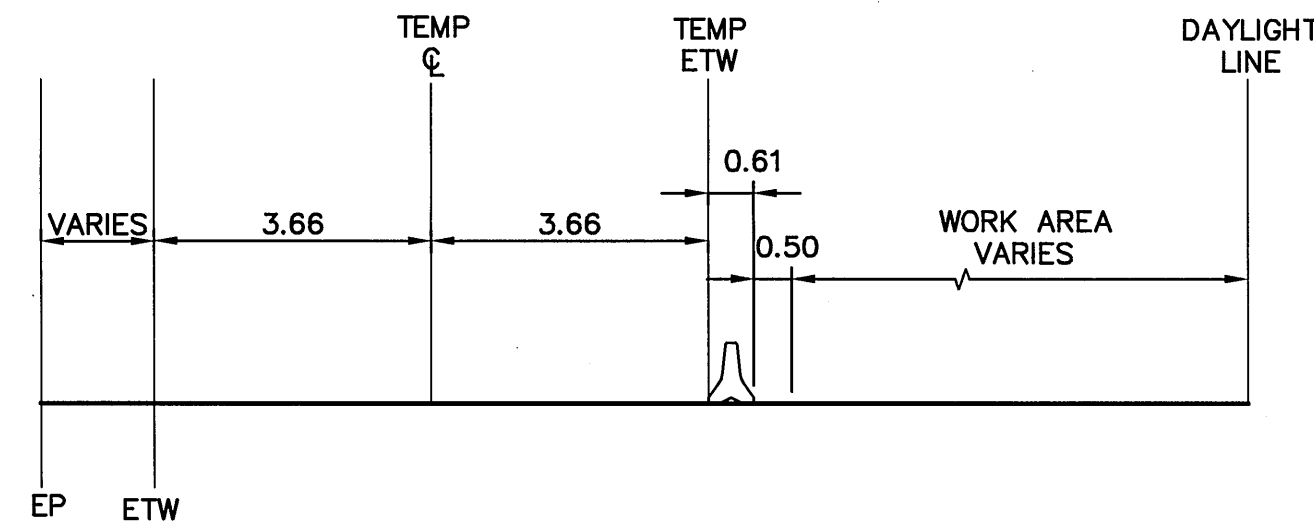
CONSTRUCTION	REVIEWED BY:	DATE:
MAINTENANCE		
REAL ESTATE		

SURVEY	REVIEWED BY:	DATE:
TRAFFIC		
ENVIRONMENTAL		

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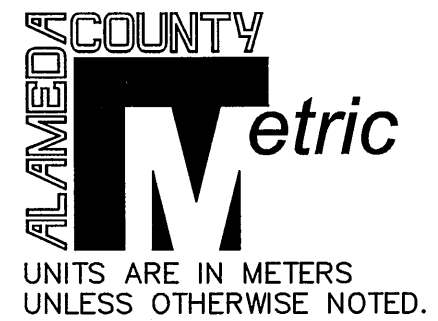
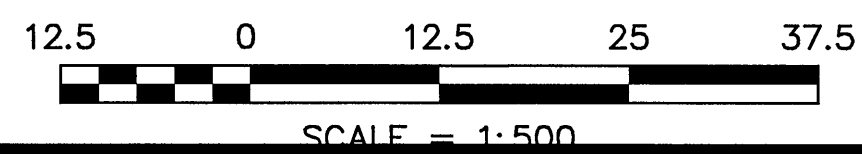
PLAN
1:500



SECTION A
SCALE 1:100 (STA 1+780)

LEGEND:

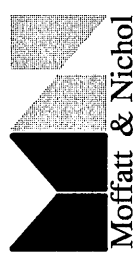
- CONSTRUCT THIS STAGE
- TEMP RAILING (TYPE K)
- TEMP RAILING (TYPE K)
- TEMP SIGN
- TEMP CRASH CUSHION (ARRAY TS14)
- DIRECTIONAL ARROW



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
CONSTRUCTION STAGING PLAN -
STAGE 3

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	127 OF 145
FILE NO.	U-357-6

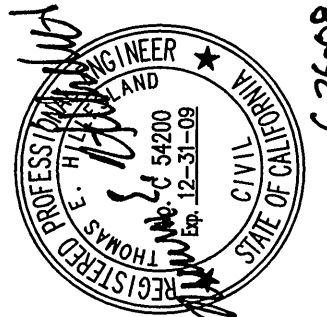
1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238



DESIGNED BY	CHECKED BY
A. BUDOWSKA	T. HILLMAN
DESIGNED BY	APPROVED BY
S. HO	B. ZERN

NO.	DESCRIPTION	BY	DATE	APPROVED
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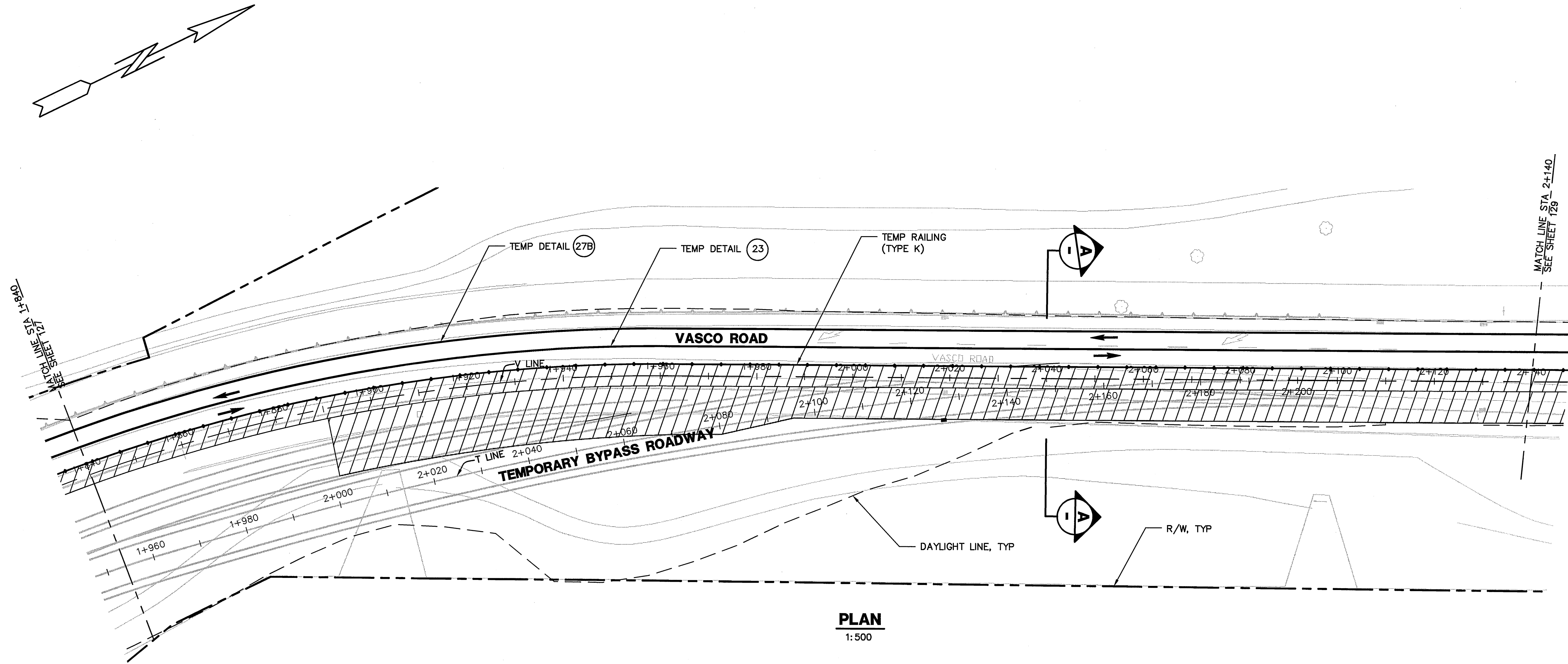
REVISIONS



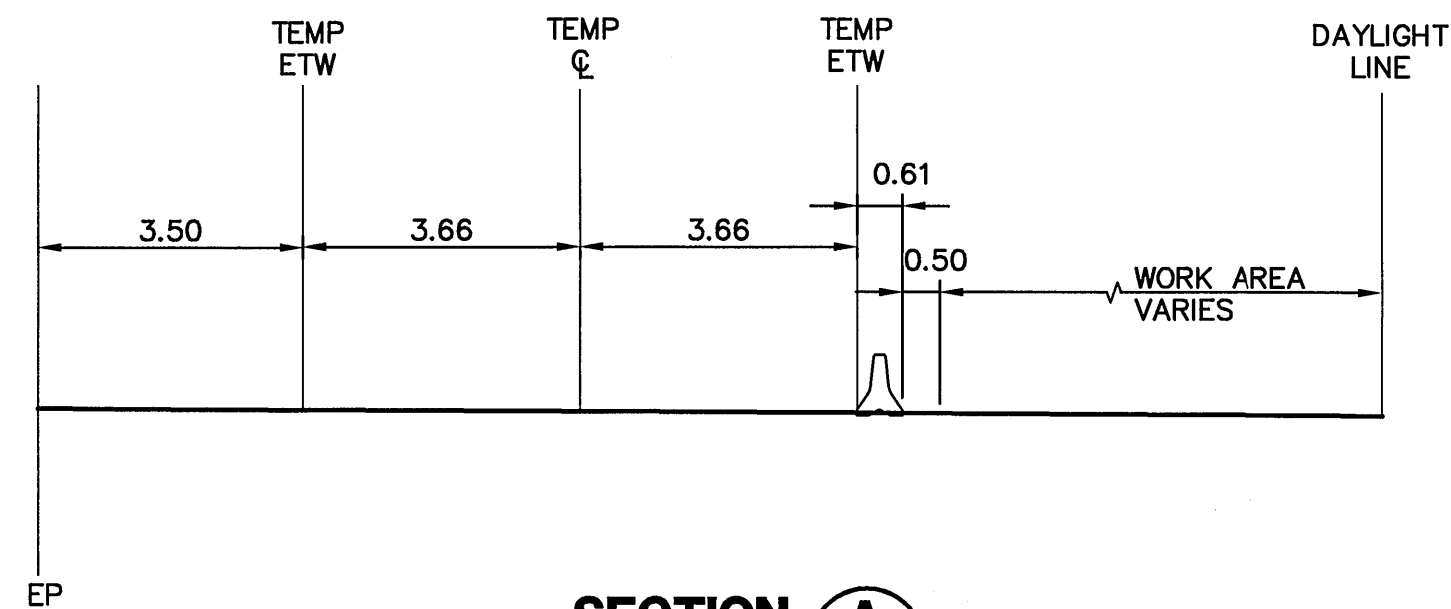
6-26-08

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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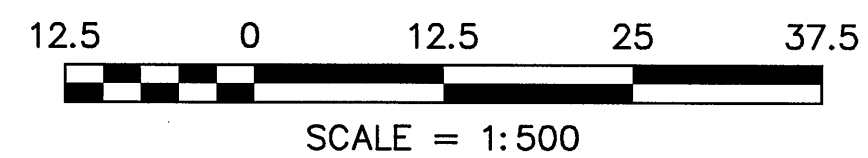
PLAN
1:500



SECTION A
SCALE 1:100 (STA 2+040)

LEGEND:

- CONSTRUCT THIS STAGE
- TEMP RAILING (TYPE K)
- TEMP RAILING (TYPE K)
- DIRECTIONAL ARROW



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
CONSTRUCTION STAGING PLAN -
STAGE 3

DATE: JAN 2008
SCALE: AS SHOWN
WORK ORDER NO.: R23265
SPECIFICATION NO.: 1903
SHEET NO.: 128 OF 145
FILE NO.: U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 645-1238
Moffatt & Nichol
CHECKER: T. HILLESAND
APPROVED: B. ZAKEN
DESIGNED: S. HO

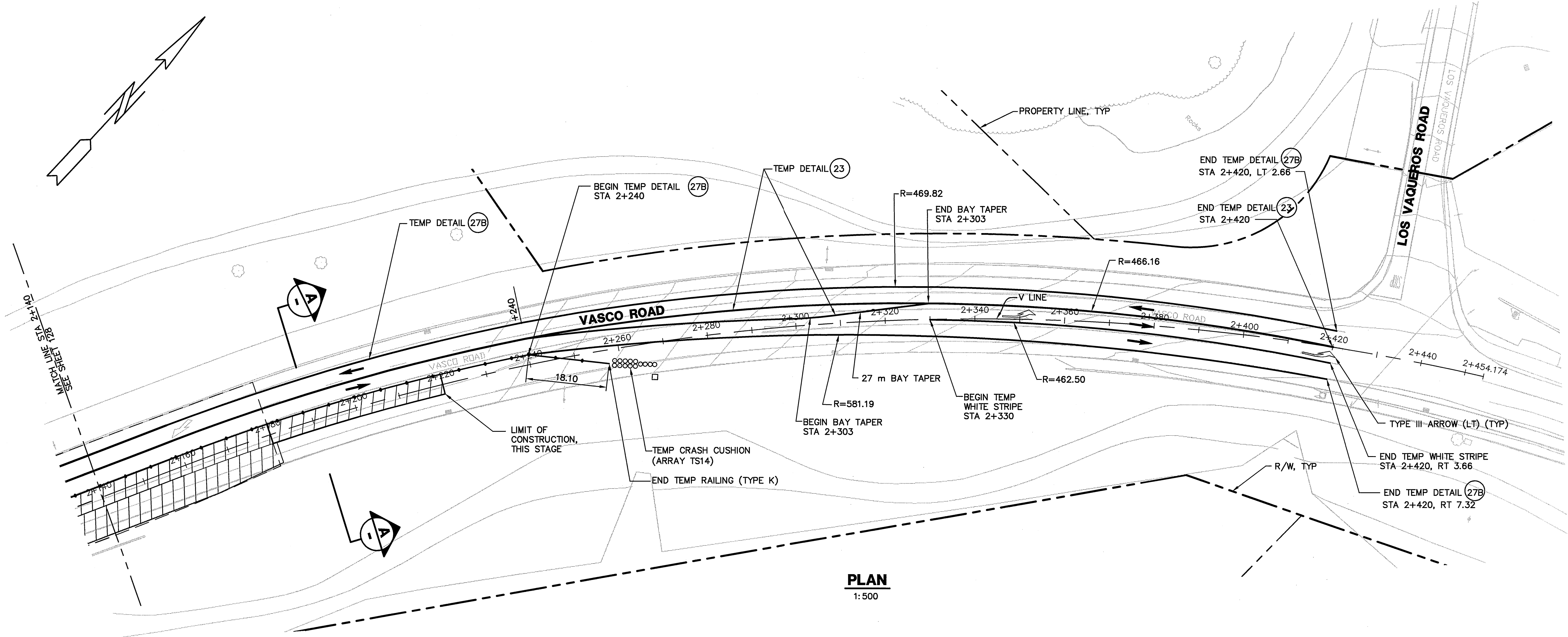
PROFESSIONAL ENGINEER
T. HILLESAND
No. C 4200
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA
6-25-08

NO.	DESCRIPTION	BY	DATE	APPVD

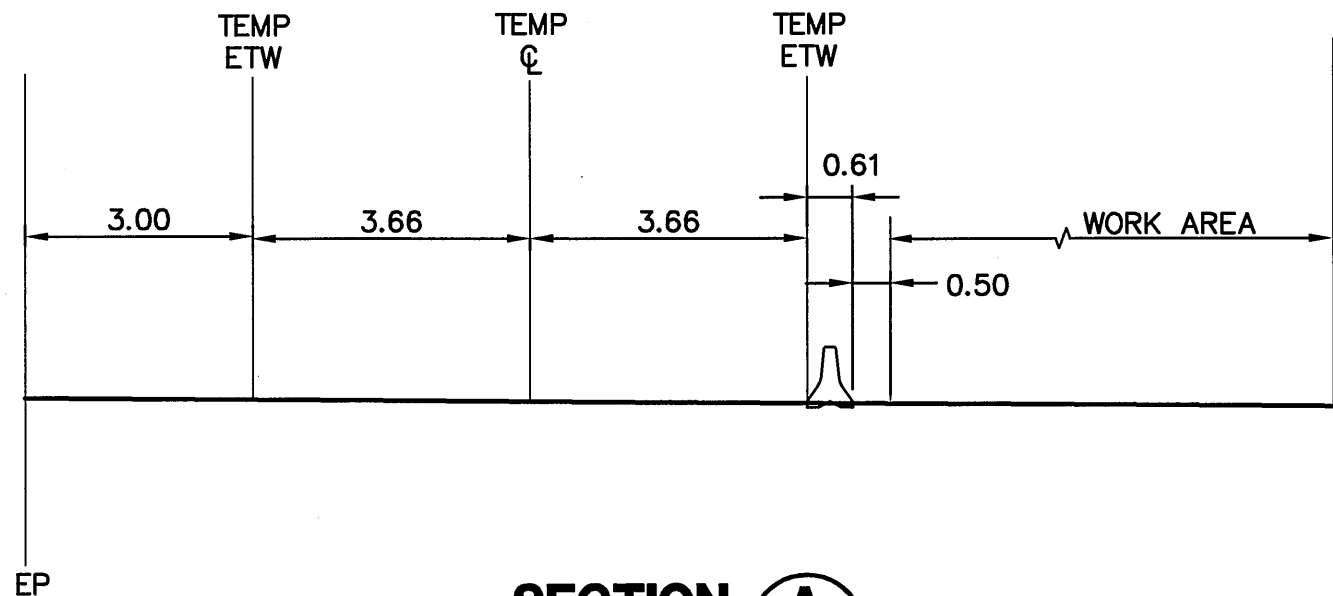
REVISIONS

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE				
REAL ESTATE				
	SURVEY		TRAFFIC	
	ENVIRONMENTAL			

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PLAN
1:500



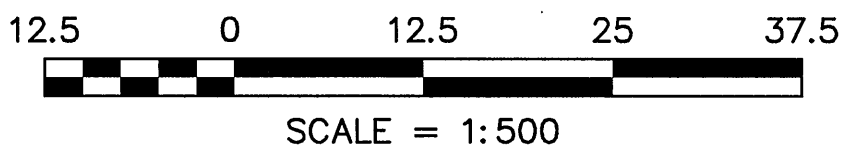
SECTION A
SCALE 1:100 (STA 2+190)

NOTES

1. STAGE 1 AND 2 TEMPORARY STRIPING AND MARKINGS NOT SHOWN.
2. REMOVE CONFLICTING EXISTING STAGE 1 AND 2 TEMPORARY STRIPING AND MARKINGS.

LEGEND:

- CONSTRUCT THIS STAGE
- TEMP RAILING (TYPE K)
- TEMP RAILING (TYPE K)
- TEMP CRASH CUSHION (ARRAY TS14)
- DIRECTIONAL ARROW
- TYPE III ARROW (LT)



ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3	
CONSTRUCTION STAGING PLAN - STAGE 3	
DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	129 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (610) 645-1238	CHECKED: T. HILLESAND
Moffatt & Nichol	DESIGNED: S. HO
DRAWN: A. BODOLUOVA	APPROVED: B. ZAHN

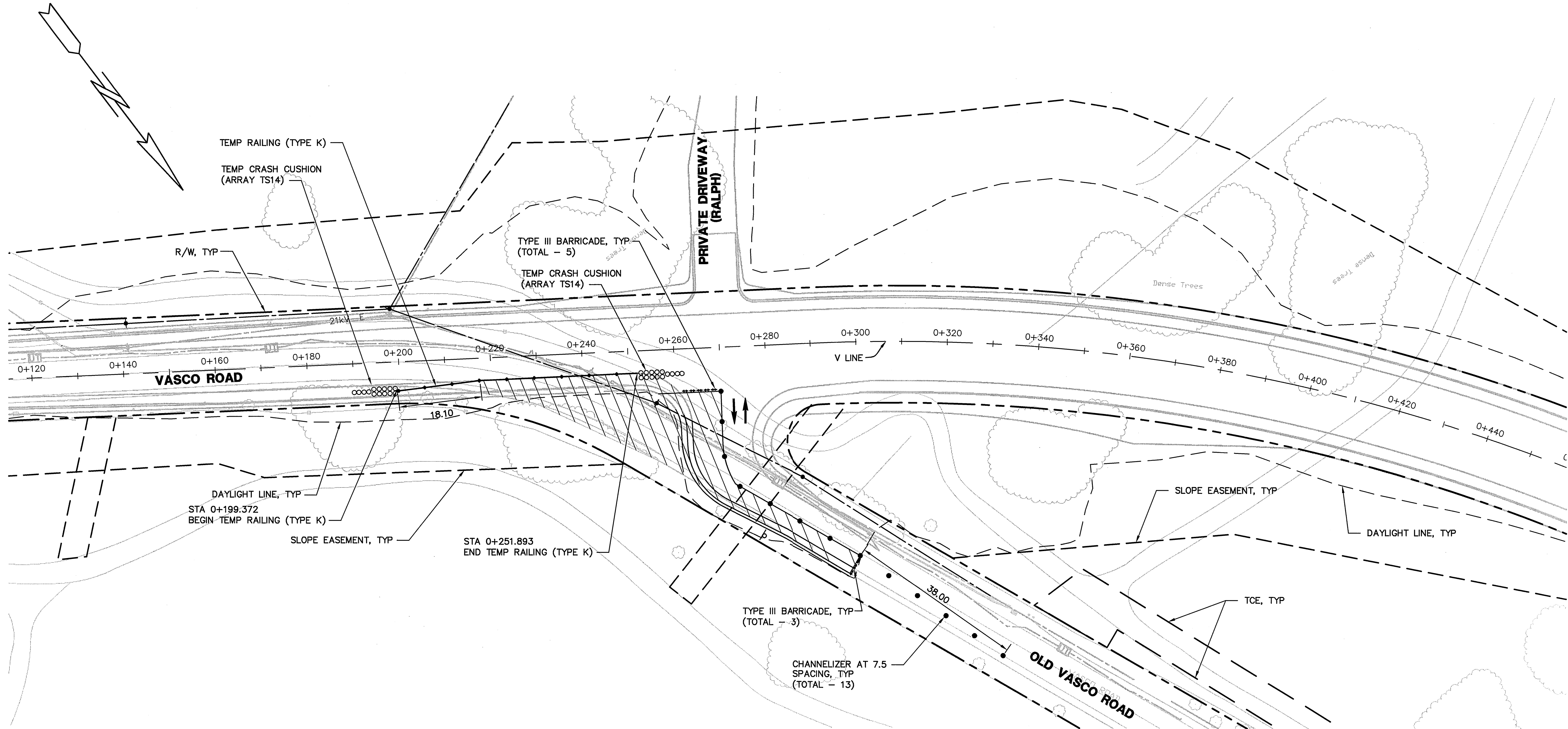
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REVISIONS

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CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
MAINTENANCE			SURVEY	
REAL ESTATE			TRAFFIC	
			ENVIRONMENTAL	

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PLAN
1:500

LEGEND:

STAGE 4 CONSTRUCTION:

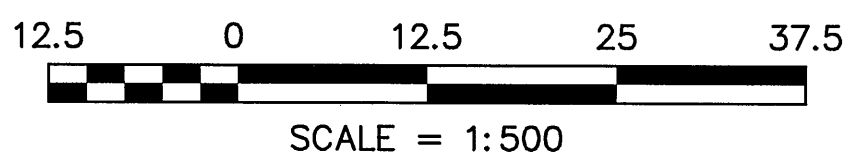
1. REGRADE THE TEMPORARY BYPASS ROAD (STEEP) EMBANKMENT SLOPES TO 1H:2V.
2. CONSTRUCT REMAINING CONCRETE BARRIER ON NORTHERN END OF PROJECT.
3. AT THE TEMPORARY BYPASS ROAD, REMOVE BASE AND SURFACING FROM THE EVA CONNECTION AT VASCO ROAD TO THE NORTHERN CONFORM OF THE TEMPORARY BYPASS ROAD.
4. ADJACENT TO THE SOUTH INTERSECTION, REMOVE BASE AND SURFACING OF TEMPORARY PAVEMENT AND EXISTING OLD VASCO ROAD PAVEMENT NOT USED.
5. CONSTRUCT REMAINING PORTION OF SOUTH INTERSECTION.

STAGE 4 TRAFFIC:

1. NB AND SB TRAFFIC REMAINS ON REALIGNED VASCO ROAD.
2. NB AND SB TRAFFIC IS SPLIT AROUND THE BARRIER CONSTRUCTION AREA.
3. MAINTAIN LOCAL ACCESS TO THE SOUTH INTERSECTION AT ALL TIMES

LEGEND:

- CONSTRUCT THIS STAGE
- TEMP RAILING (TYPE K)
- TEMP SIGN
- TEMP CRASH CUSHION (ARRAY TS14)
- CHANNELIZER
- DIRECTIONAL ARROW



FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS

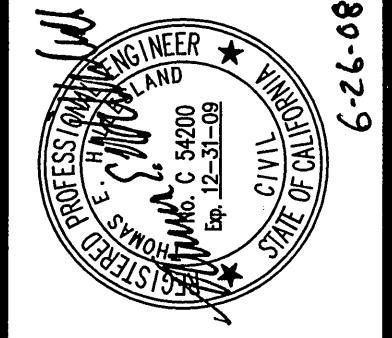
ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3

CONSTRUCTION STAGING PLAN -
STAGE 4

DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	130 OF 145
FILE NO.	U-357-6



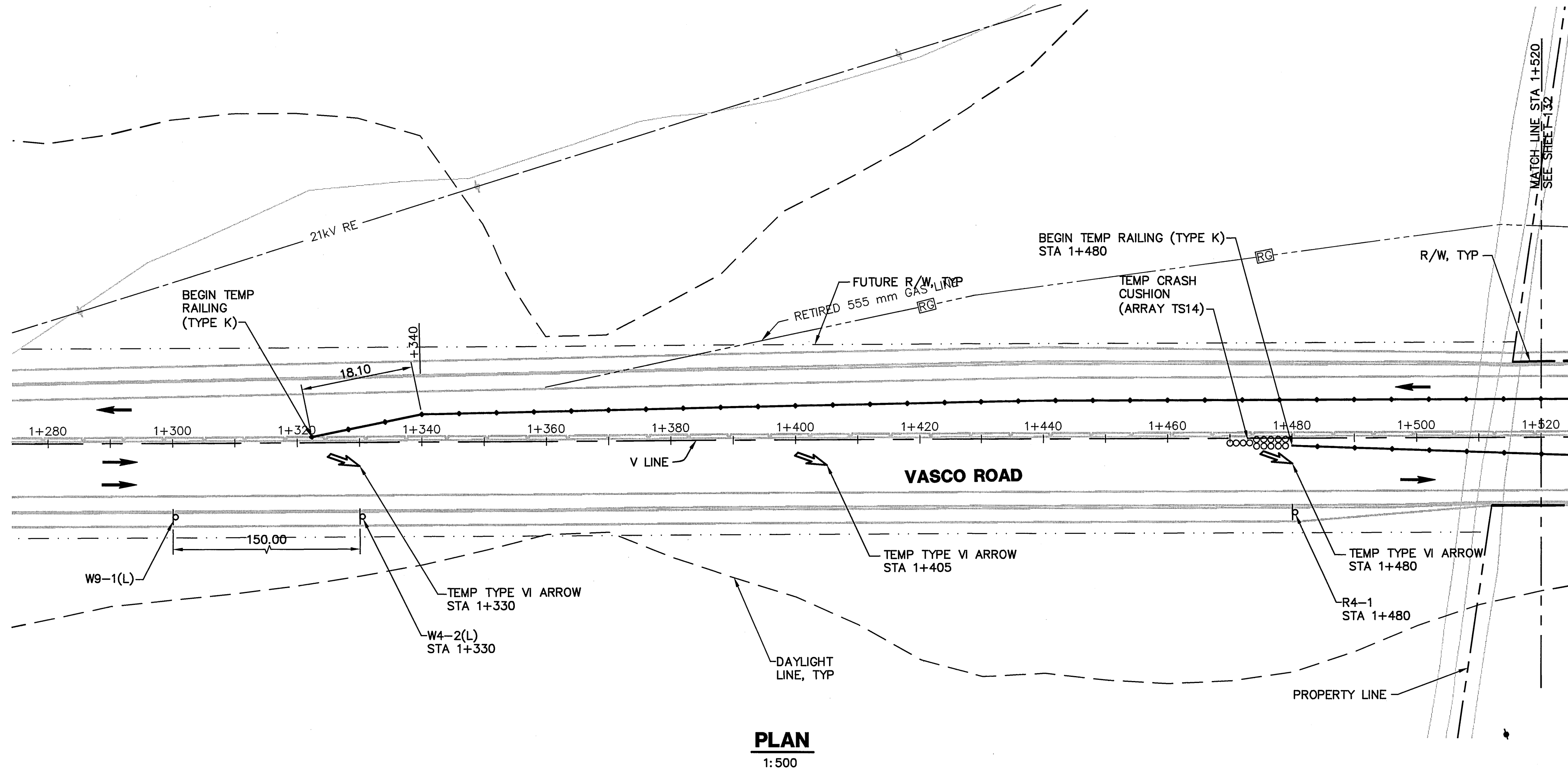
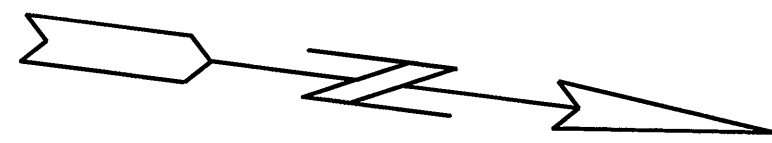
1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 945-1238	CHECKED: T. HILLESAND
DESIGNED: A. BOROVIKOV	APPROVED: B. ZERN
DRAWN: S. NG	

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED
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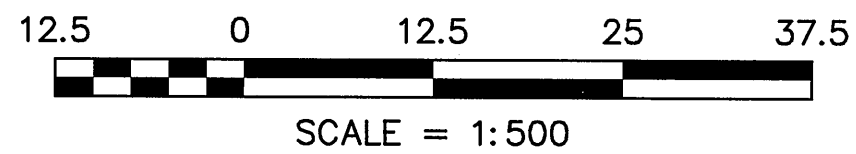
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MAINTENANCE				
REAL ESTATE				

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LEGEND:

- TEMP RAILING (TYPE K)
- TEMP SIGN
- TEMP CRASH CUSHION (ARRAY TS14)
- DIRECTIONAL ARROW



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 CONSTRUCTION STAGING PLAN - STAGE 4	
REVIEWED: <i>[Signature]</i> BOND NO. <i>[Blank]</i> REVIEWED: JAMES CHU REVIEWED: JAMES CHU APPROVAL, RECOMMENDED: STANLEY W. FUNG	DATE: JAN 2008 SCALE: AS SHOWN WORK ORDER NO. R23265 SPECIFICATION NO. 1903 SHEET NO. 131 OF 145 FILE NO. U-357-6

1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 845-1238 Moffatt & Nichol	
DRAWN: A. BORONKOVA DESIGNED: S. HO	CHECKED: T. HILLESAND APPROVED: B. ZAHN

REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIF. No. 4390 Exp. 12-31-09 6-26-08	
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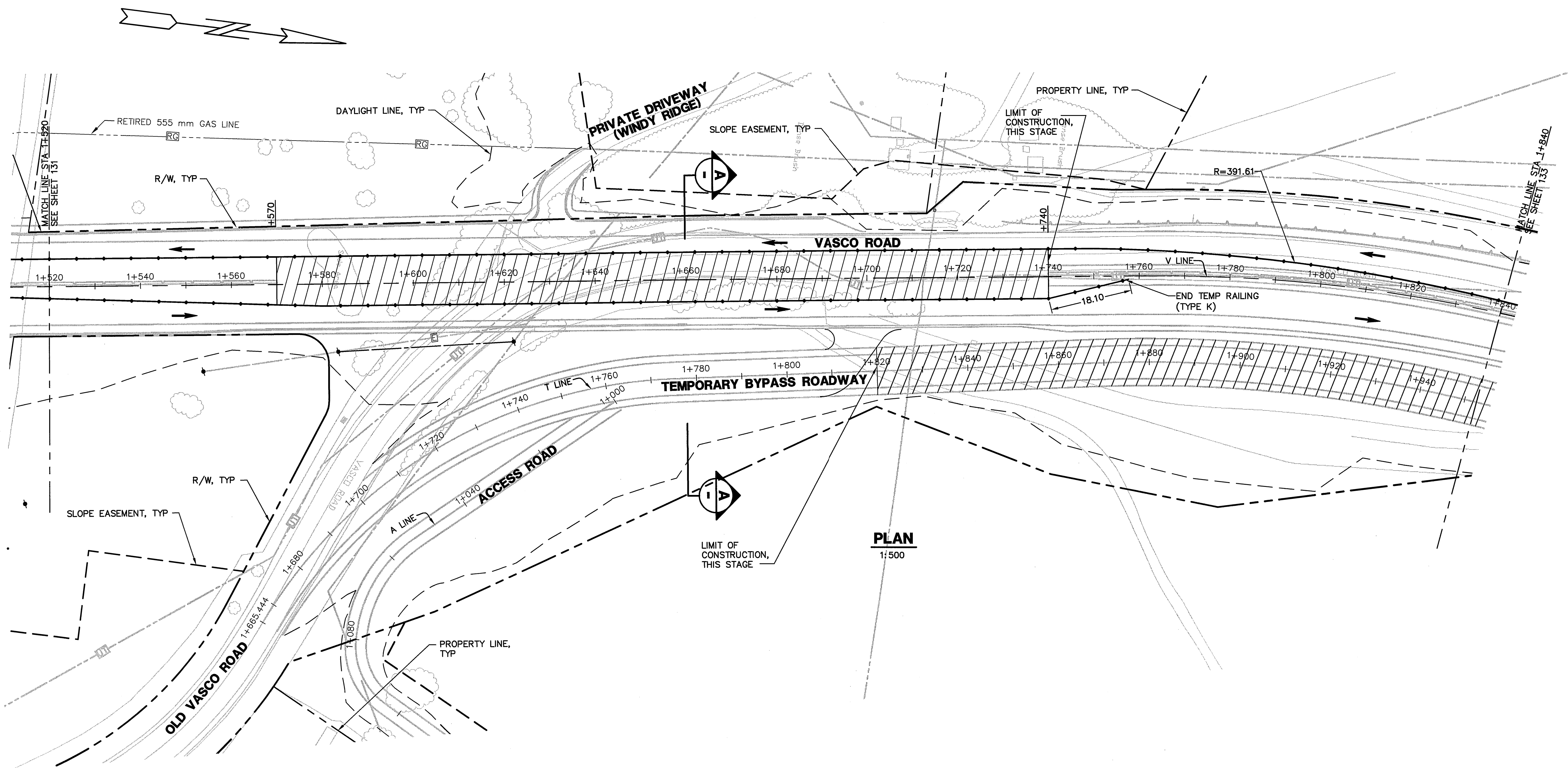
REVISIONS			
NO.	DESCRIPTION	BY	DATE

FOR REDUCED METRIC PLANS
 ORIGINAL SCALE IS IN METERS

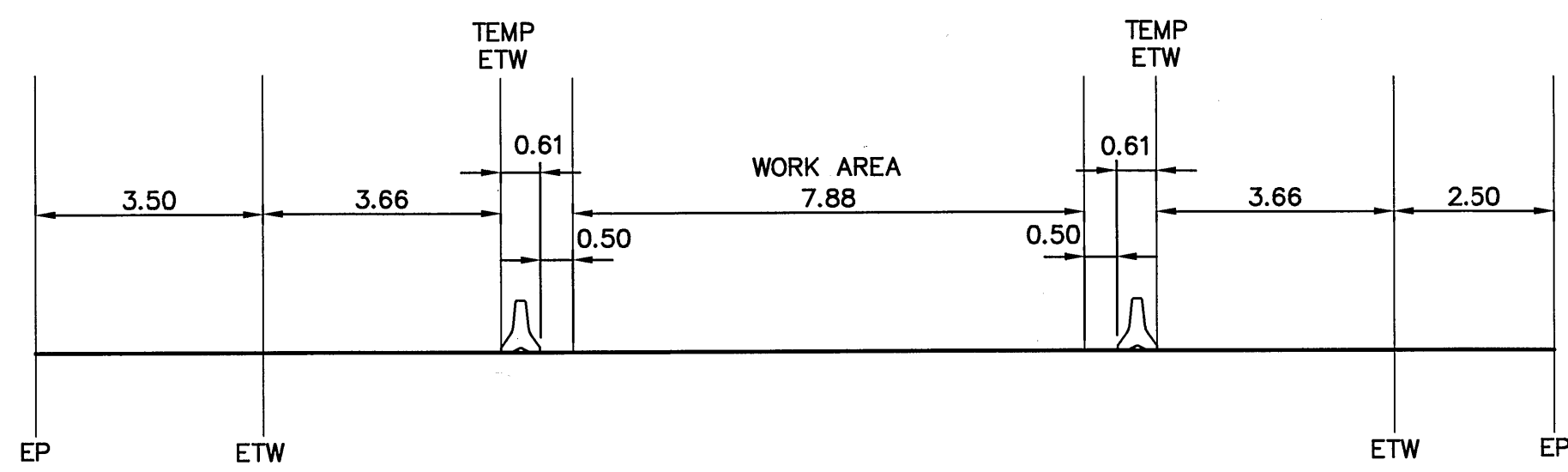


CONSTRUCTION	REVIEWED BY:	DATE:	SURVEY	REVIEWED BY:	DATE:
MAINTENANCE			TRAFFIC		
REAL ESTATE			ENVIRONMENTAL		

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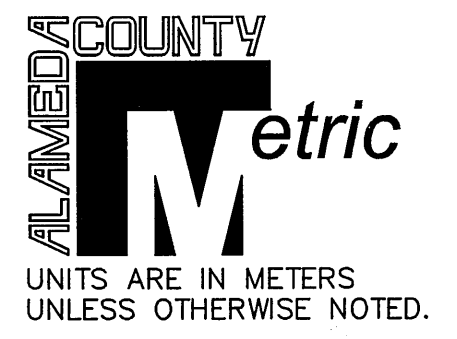
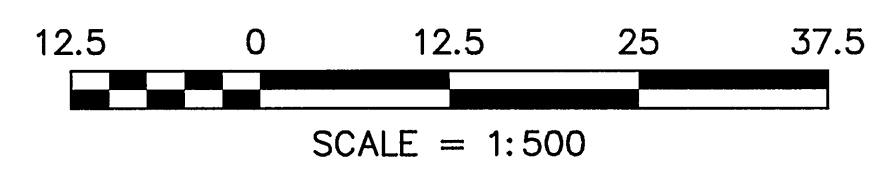


PLAN
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SECTION A-A
SCALE 1:100 (STA 1+660)

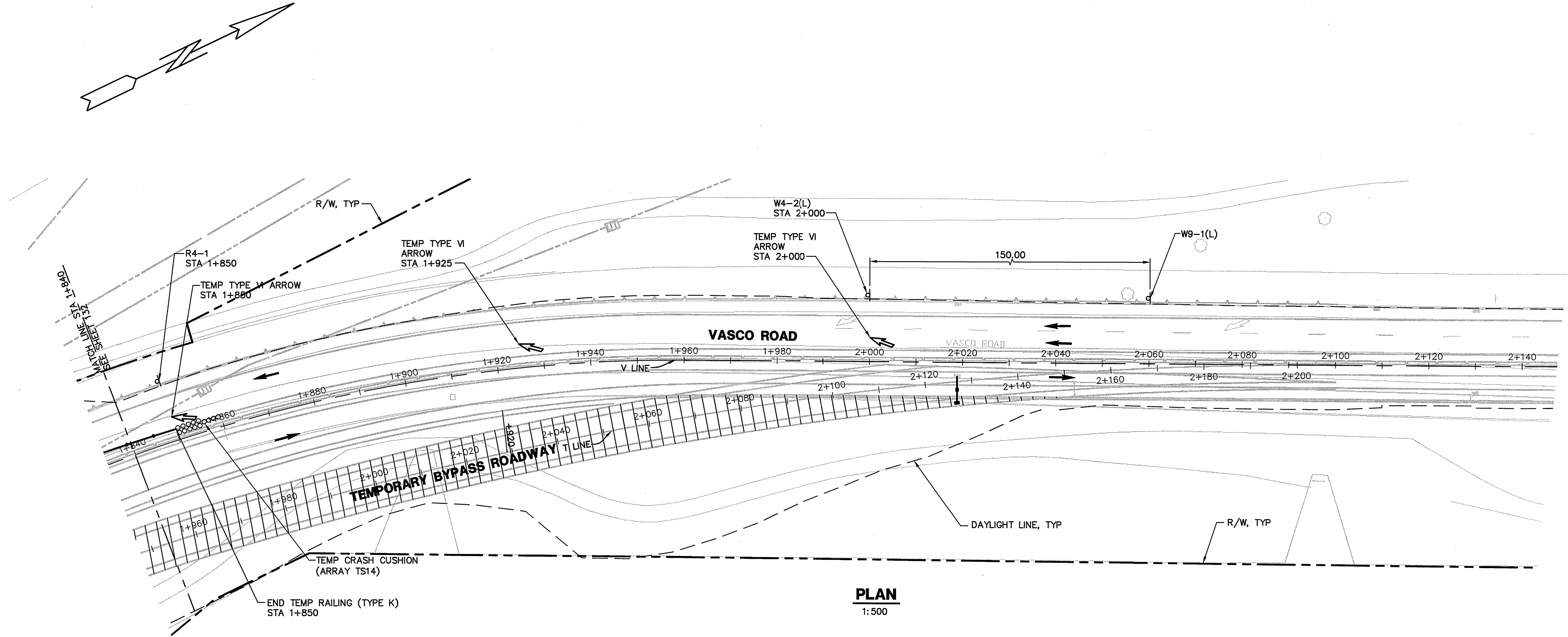
- LEGEND:**
- CONSTRUCT THIS STAGE
 - TEMP RAILING (TYPE K)
 - TEMP RAILING (TYPE K)
 - DIRECTIONAL ARROW



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 CONSTRUCTION STAGING PLAN - STAGE 4		DATE: JAN 2008 WORK ORDER NO.: R23265 SPECIFICATION NO.: 1903 SHEET NO.: 132 OF 145 FILE NO.: U-357-6																									
REVIEWED: [Signature] BOND NO. [Blank] REVIEWED: [Signature] APPROVAL RECOMMENDED: [Signature]	DRAWN: A. BOROWKOWA DESIGNED: S. HO CHECKED: T. HILLESAND APPROVED: B. ZENI	1300 CLAY STREET, SUITE 550 OAKLAND, CALIFORNIA 94612 (510) 845-238 MOFFATT & NICHOL CIVIL ENGINEERS REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA NO. 62608																									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DESCRIPTION	BY	DATE	APPROVED																					6-26-08
NO.	DESCRIPTION	BY	DATE	APPROVED																							

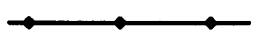
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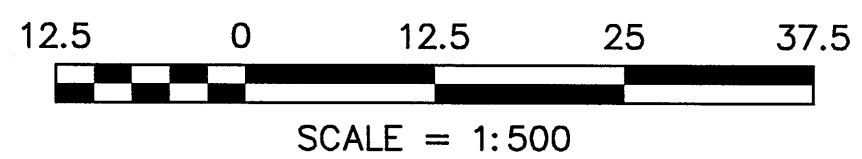
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PLAN
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LEGEND:

-  CONSTRUCT THIS STAGE
-  TEMP RAILING (TYPE K)
-  TEMP SIGN
-  TEMP CRASH CUSHION (ARRAY TS14)
-  DIRECTIONAL ARROW



COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
CONSTRUCTION STAGING PLAN -
STAGE 4

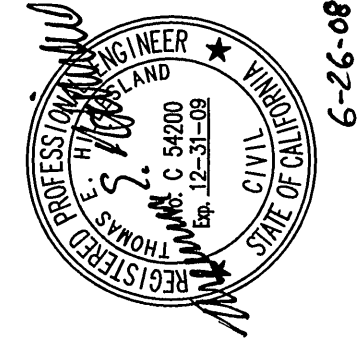
DATE	SCALE
JAN 2008	AS SHOWN
WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	133 OF 145
FILE NO.	U-357-6

1300 CLAY STREET, SUITE 550
OAKLAND, CALIFORNIA 94612
(510) 845-1238

Moffatt & Nichol

DRAWN: A. BROWNOVA
DESIGNED: S. HO

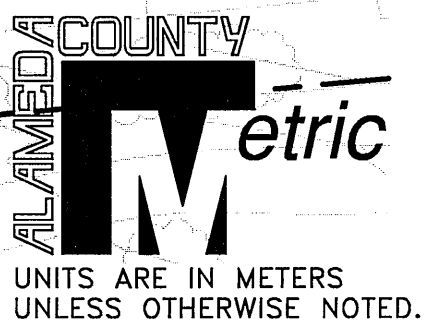
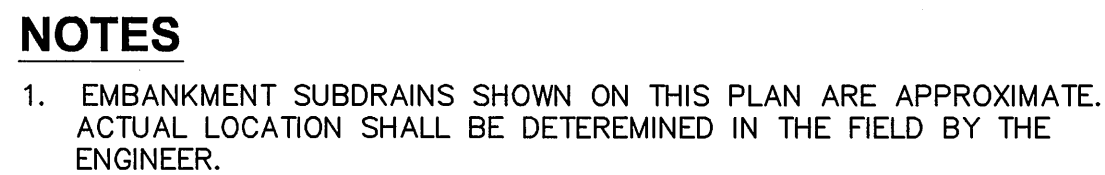
CHECKED: T. HILSLAND
APPROVED: B. ZAHN



NO.	DESCRIPTION	BY	DATE	APPROVED

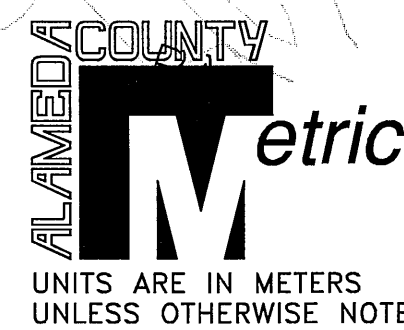
REVISIONS

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COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		APPROVED		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 EMBANKMENT SUBDRAINAGE LAYOUT		DRAWN JANE RINZUL	APPROVAL RECOMMENDED JAMES CHU	APPROVED 	NO.
WORK ORDER NO. R23265	SPECIFICATION NO. 1903	DESIGNED BY J. Muneraich SRING, KOSANTON, MARIANA	APPROVAL RECOMMENDED JAMES CHU	DATE JAN 2008	DESCRIPTION
SHEET NO. 134 OF 145	FILE NO. U-357-6	CHECKED JAMES CHU	SCALE AS SHOWN	BY	DATE
				APPROVED	APPROVED

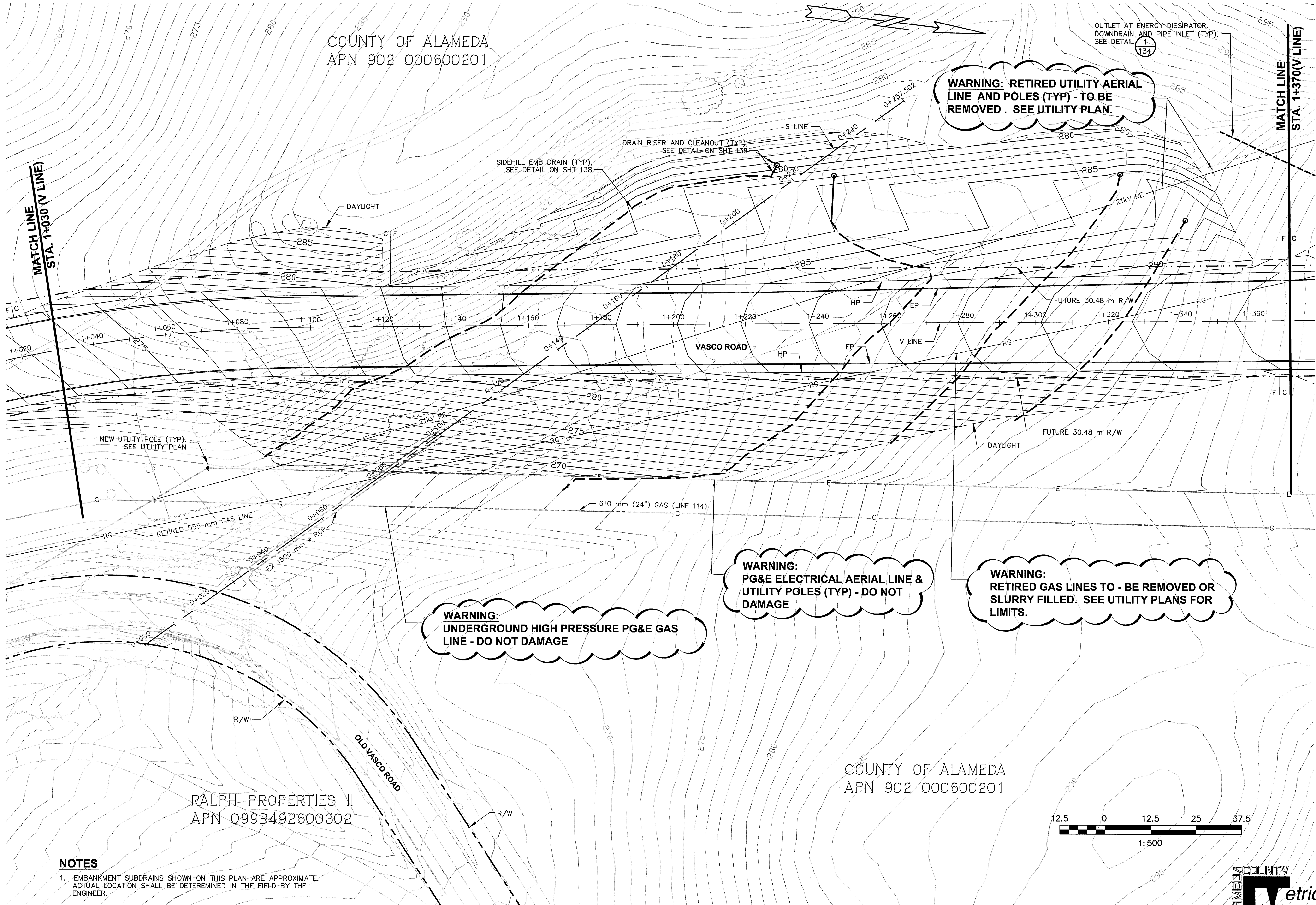
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WORK ORDER NO.	R23265
SPECIFICATION NO.	1903
SHEET NO.	135 OF 1
FILE NO.	U-357-

CONSTRUCTION	REVIEWED BY:	DATE:	REVIEWED BY:	DATE:
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	ENVIRONMENTAL			

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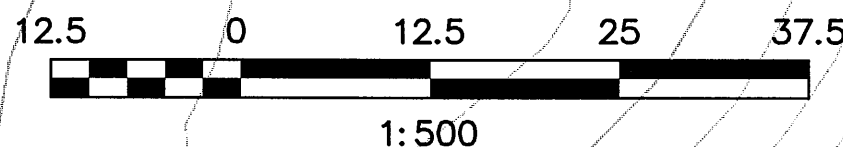
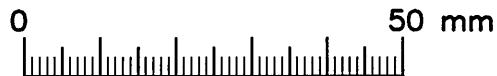


NOTES

1. EMBANKMENT SUBDRAINS SHOWN ON THIS PLAN ARE APPROXIMATE. ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

PLAN
1:500

FOR REDUCED METRIC PLANS
ORIGINAL SCALE IS IN METERS



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
EMBANKMENT SUBDRAINAGE
LAYOUT

WORK ORDER NO.
R23265

SPECIFICATION NO.
1903

SHEET NO.
136 OF 145

FILE NO.
U-357-6

APPROVED

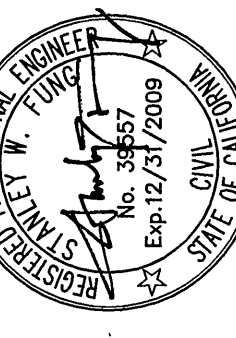
APPROVAL/RECOMMENDATION

JAMES CHU

DATE

JAN 2008

APPROVED



DATE

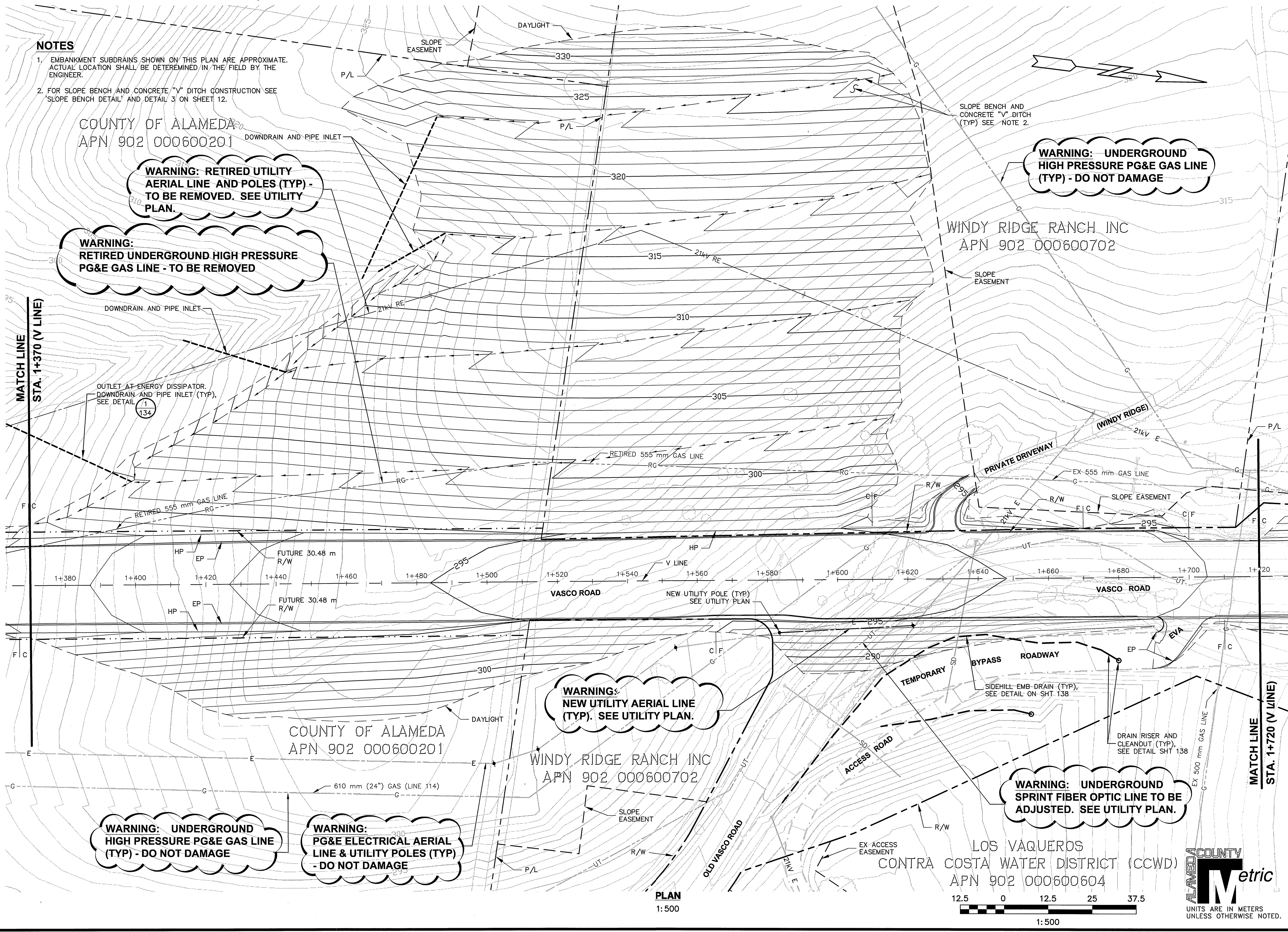
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REVISIONS

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	TRAFFIC			
	ENVIRONMENTAL			

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COUNTY OF ALAMEDA

THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 EMBANKMENT SUBDRAINAGE LAYOUT

WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 137 OF 145
FILE NO. U-357-6

REVISIONS

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COUNTY OF ALAMEDA PUBLIC WORKS AGENCY

APPROVAL RECOMMENDED
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JAN 2008
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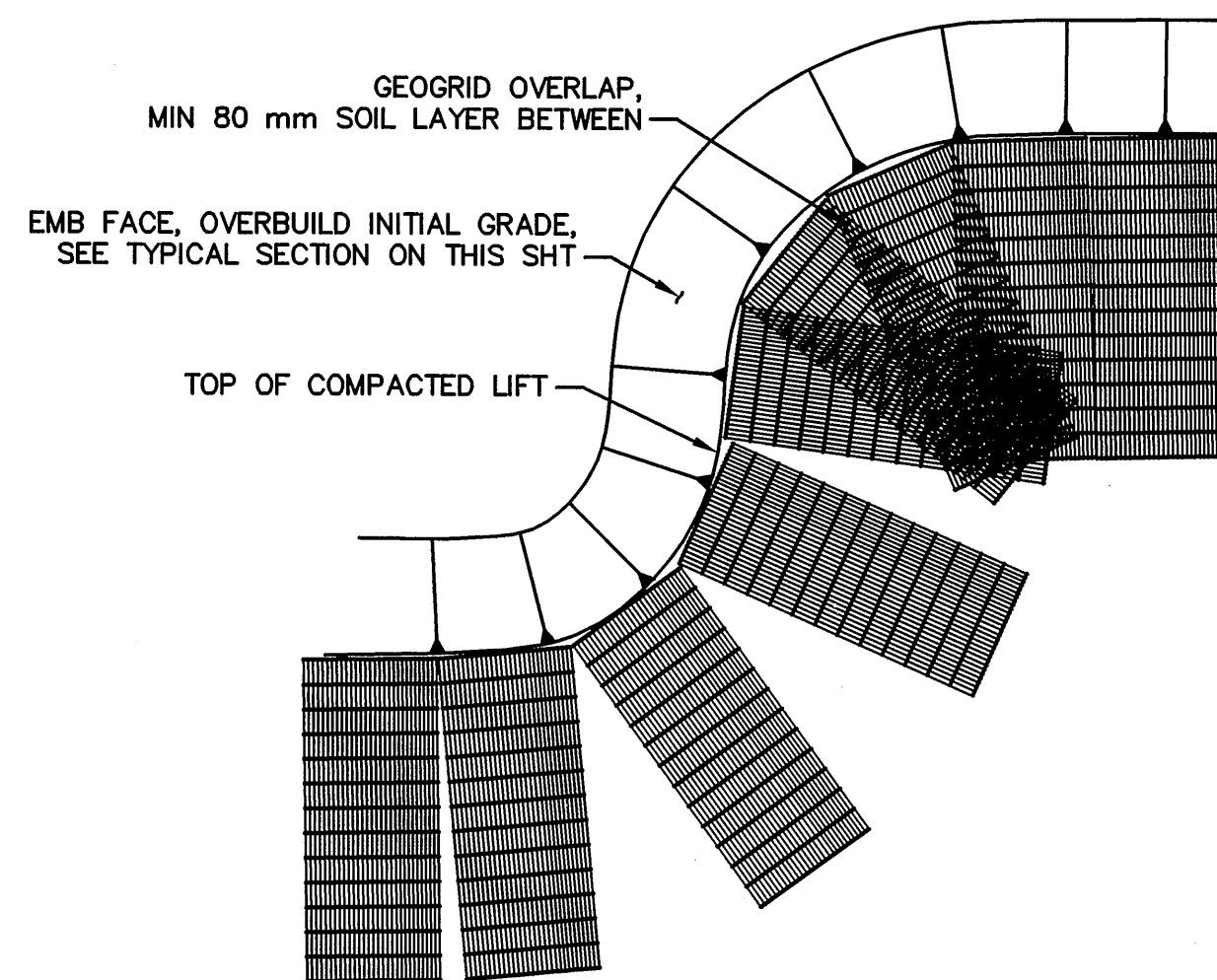
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JAN 2008
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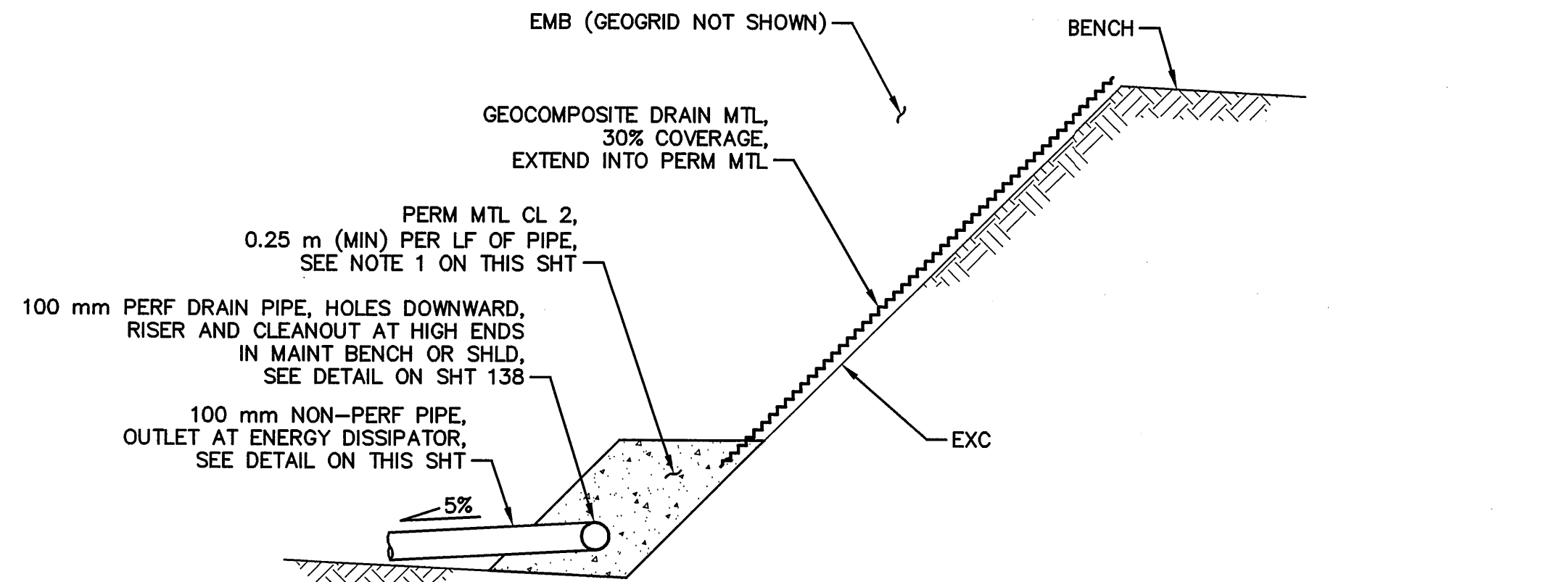
ALAMEDA COUNTY metric

UNITS ARE IN METERS UNLESS OTHERWISE NOTED.

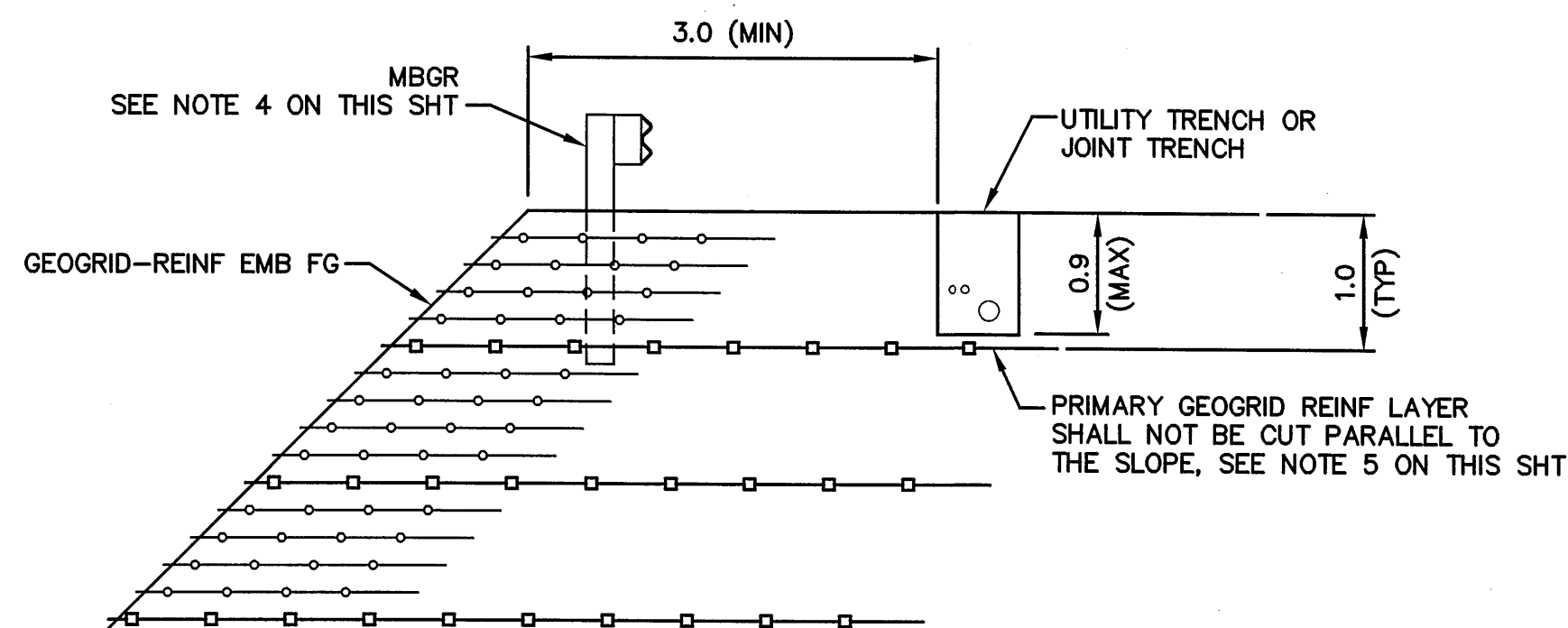
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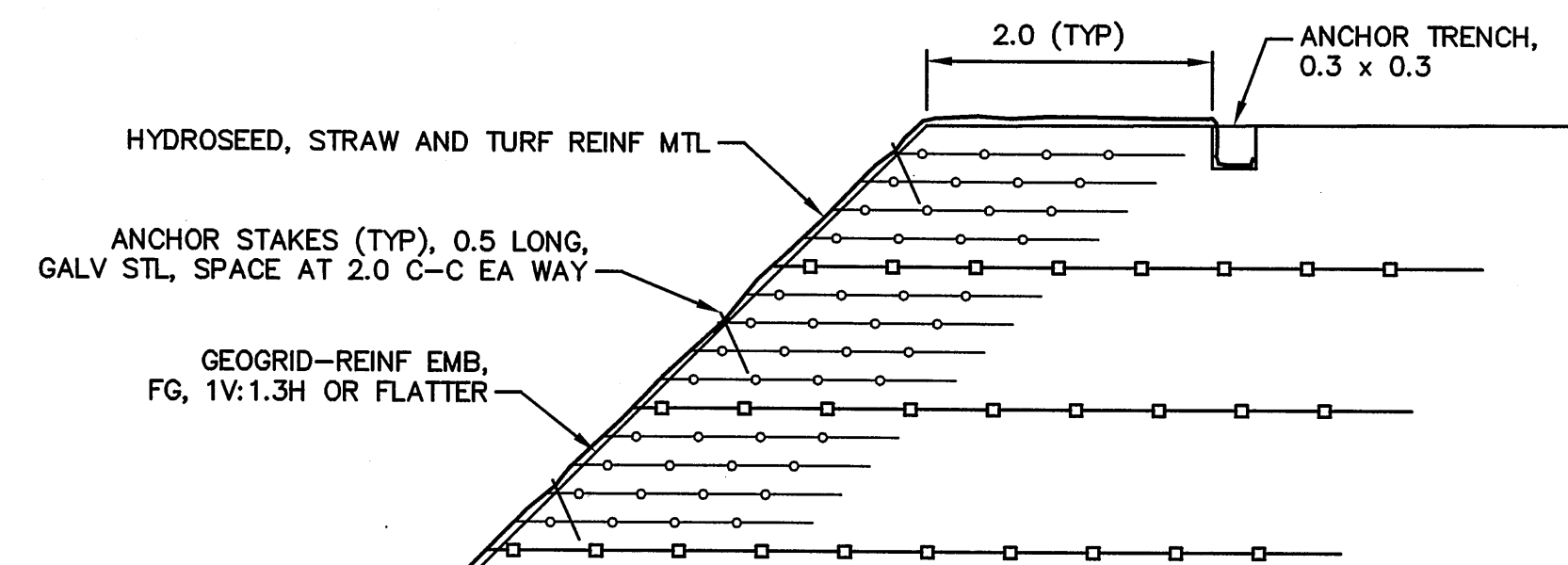
GEOGRID PLACEMENT ON CURVES



EMBANKMENT DRAIN
NO SCALE



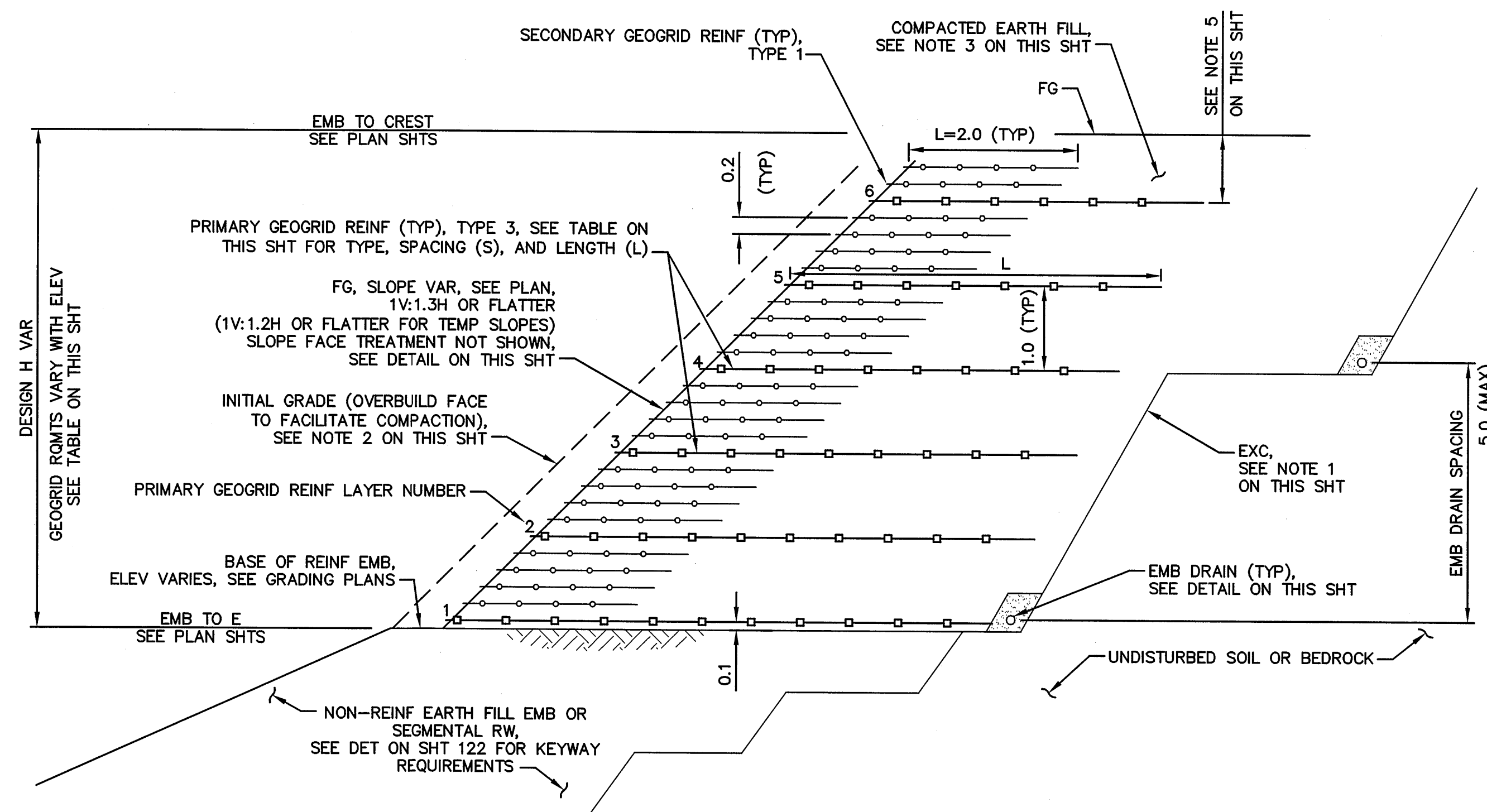
GEOGRID PENETRATION RESTRICTIONS ALONG CREST



SLOPE FACE TREATMENT

GEOGRID REINFORCEMENT DATA																				
DESIGN H	GEOGRID LENGTH (L) AT LAYER																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1.0	3.0																			
2.0	3.0	3.0																		
3.0	3.0	3.0	3.0																	
4.0	4.0	4.0	4.0	4.0																
5.0	6.0	5.0	4.0	4.0	4.0															
6.0	7.0	6.0	5.0	5.0	4.0	4.0														
7.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0													
8.0	9.0	9.0	8.0	8.0	7.0	7.0	6.0	6.0												
9.0	12.0	11.0	11.0	10.0	10.0	9.0	9.0	8.0	8.0											
10.0	13.0	13.0	12.0	12.0	11.0	11.0	10.0	10.0	9.0	9.0										
11.0	14.0	13.0	13.0	12.0	12.0	11.0	11.0	10.0	10.0	9.0	9.0									
12.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0	11.0	11.0	10.0	10.0								
14.0	18.0	18.0	17.0	17.0	16.0	16.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0						
16.0	21.0	21.0	20.0	20.0	19.0	19.0	18.0	18.0	17.0	17.0	16.0	16.0	15.0	15.0	14.0	14.0				
18.0	24.0	24.0	23.0	23.0	22.0	22.0	21.0	21.0	20.0	20.0	19.0	18.0	18.0	17.0	17.0	16.0	16.0			
20.0	25.0*	25.0*	25.0*	25.0*	23.0	23.0	22.0	22.0	21.0	21.0	20.0	20.0	19.0	19.0	18.0	18.0	17.0	17.0	16.0	16.0
GEOGRID TYPE 4										GEOGRID TYPE 3										
* ADDITIONAL GEOGRID OF SAME LENGTH AND TYPE SHALL BE INSTALLED BETWEEN LAYERS 1, 2, 3, AND 4																				

NOTE: GEOGRID TYPE 4 SHALL BE USED FOR ONLY DESIGN H=20.0 AND GEOGRID LAYERS 1 THRU 8.
ALL OTHER DESIGN HS AND GEOGRID LAYERS SHALL USE GEOGRID TYPE 3.

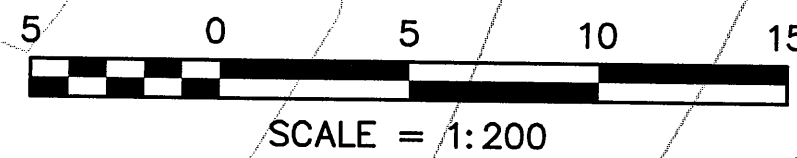


GEOGRID-REINFORCED SLOPE TYPICAL SECTION
NO SCALE
RT "V" 0+600 TO 0+800

- NOTES**
1. LOCATION AND CONFIGURATION OF THE EMBANKMENT BACK EXCAVATION AND EMBANKMENT DRAIN LAYOUT SHALL BE CONFIRMED BY THE PROJECT GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL MAINTAIN SAFE EXCAVATION CONDITIONS AT ALL TIMES.
 2. TO OBTAIN REQUIRED COMPACTION AT THE SLOPE FACE, EARTH FILL MATERIAL SHALL BE PLACED AND COMPACTED A MINIMUM OF 200 MILLIMETERS BEYOND THE FINISH GRADE LINES SHOWN ON THE PLANS AND THE EXCESS FILL MATERIAL SHALL BE TRIMMED BACK TO THE GRADES SHOWN (EXPOSING ALL LAYERS OF GEOGRID).
 3. SPECIAL INSPECTION IS REQUIRED FOR THE COMPACTED FILL AND GEOGRID PLACEMENT AND LAYOUT.
 4. HOLES FOR MBGR SHALL BE PREDRILLED TO 90% OF THE GREATEST POST CROSS SECTIONAL DIMENSION PRIOR TO DRIVING TO FINAL DEPTH.
 5. REDUCE SPACING AND ADD LAYER AS NEEDED SO THAT UPPERMOST PRIMARY GEOGRID LAYER IS 0.8 m BELOW TOP OF SLOPE
- GENERAL NOTES REINFORCED EMBANKMENT DESIGN**
- DESIGN H:
- 1 m TO 12 m (1H:1.3V MAX SLOPE)
- BACKFILL: $\phi=26$, $C=7.17$ kPa
- SURCHARGE: 18.9 kPa
- SEISMIC COEFFICIENT: 0.15
- GEOGRID LONG TERM DESIGN STRENGTHS (LTDS):
- TYPE 1 = 10.0 kN/m
- TYPE 3 = 34.2 kN/m
- TYPE 4 = 61.5 kN/m
- FACTORS OF SAFETY:
- GLOBAL=1.5

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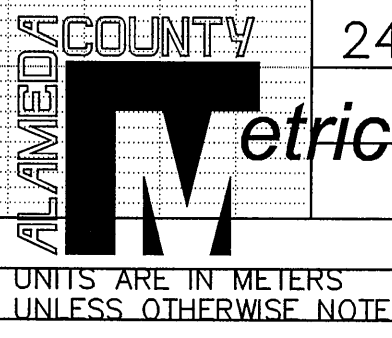
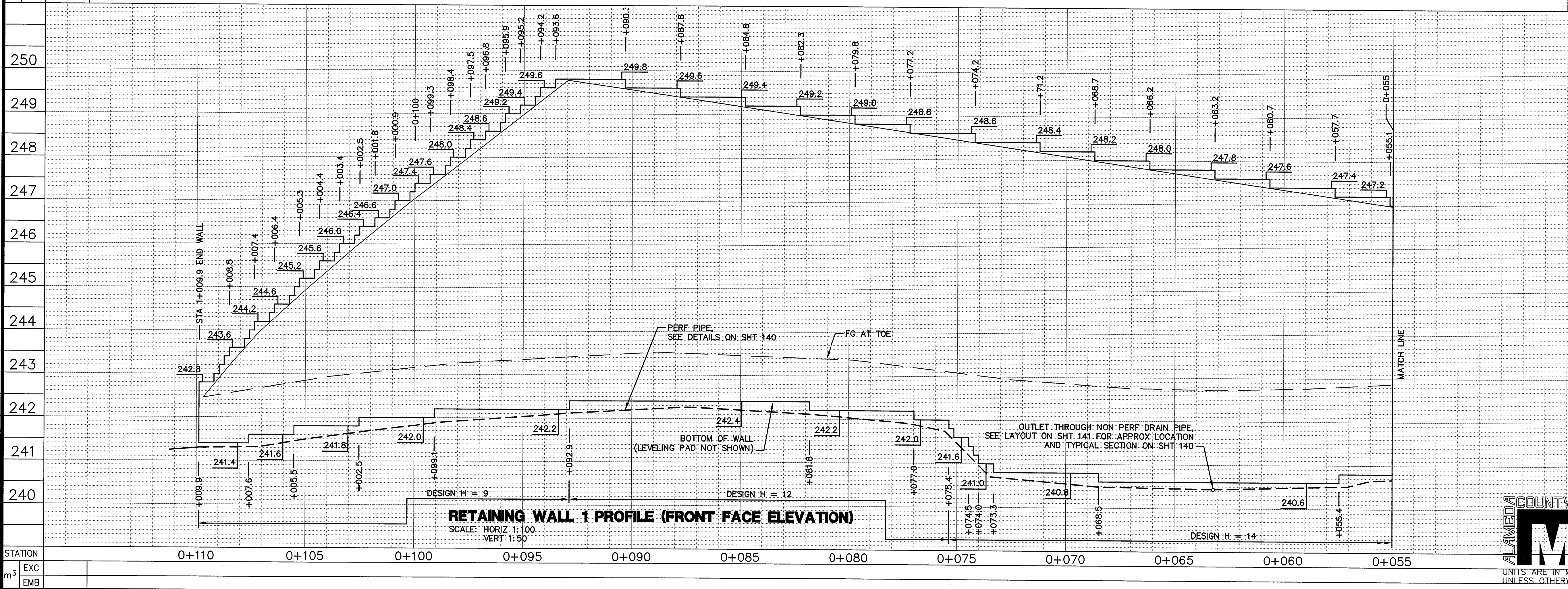
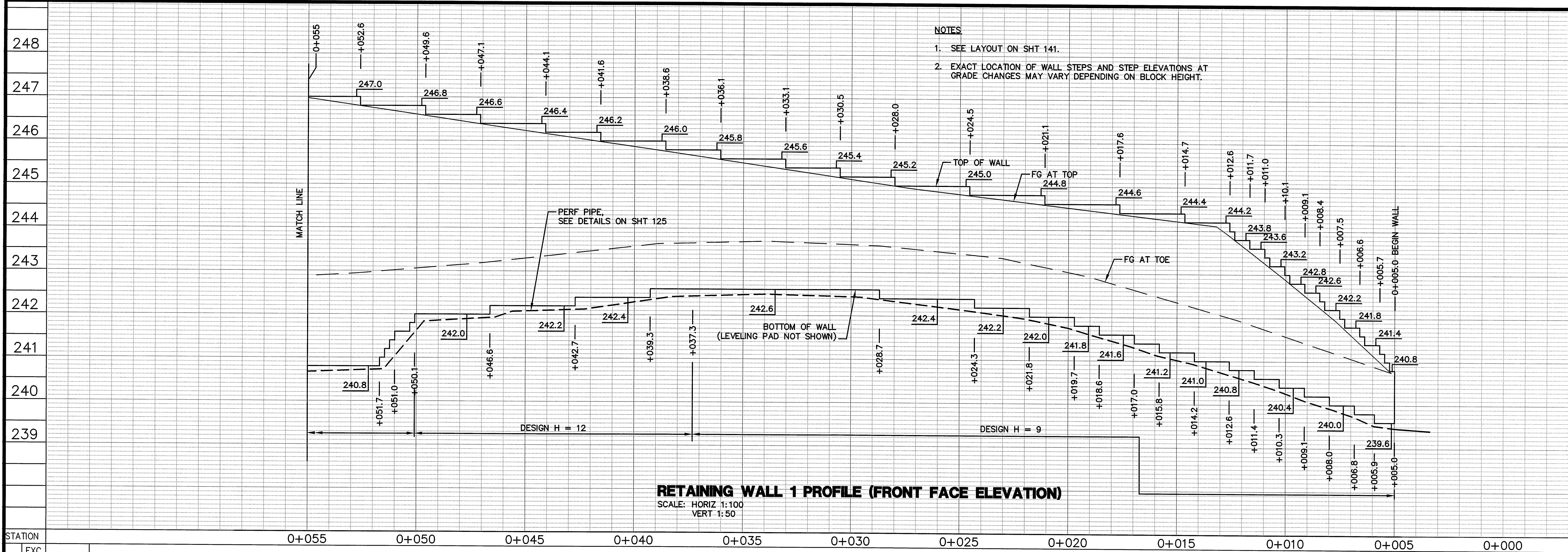
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2	60.977	49°36'22"	28.179	52.793
3	102.826	26°22'19"	21.471	42.332
4	62.977	30°11'14"	17.524	34.234
5	85.000	23°34'20"	17.736	35.000

ALAMEDA COUNTY
Metric
UNITS ARE IN METERS
UNLESS OTHERWISE NOTED.

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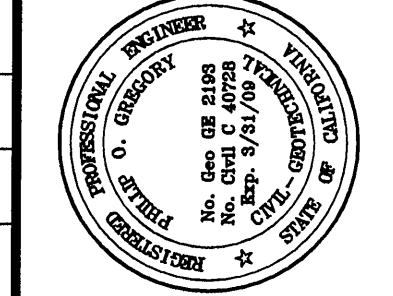
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NOTES

1. SEE LAYOUT ON SHT 141.
2. EXACT LOCATION OF WALL STEPS AND STEP ELEVATIONS AT GRADE CHANGES MAY VARY DEPENDING ON BLOCK HEIGHT.



119 Filbert St.
Oakland, CA 94607
Phone: (510) 451-2350

CE&G
CAL ENGINEERING & GEOLOGY
DRAWN: *Chris Docket*
CHECKED: *James Ch...*
DESIGNED: *James Ch...*
APPROVED: *James Ch...*

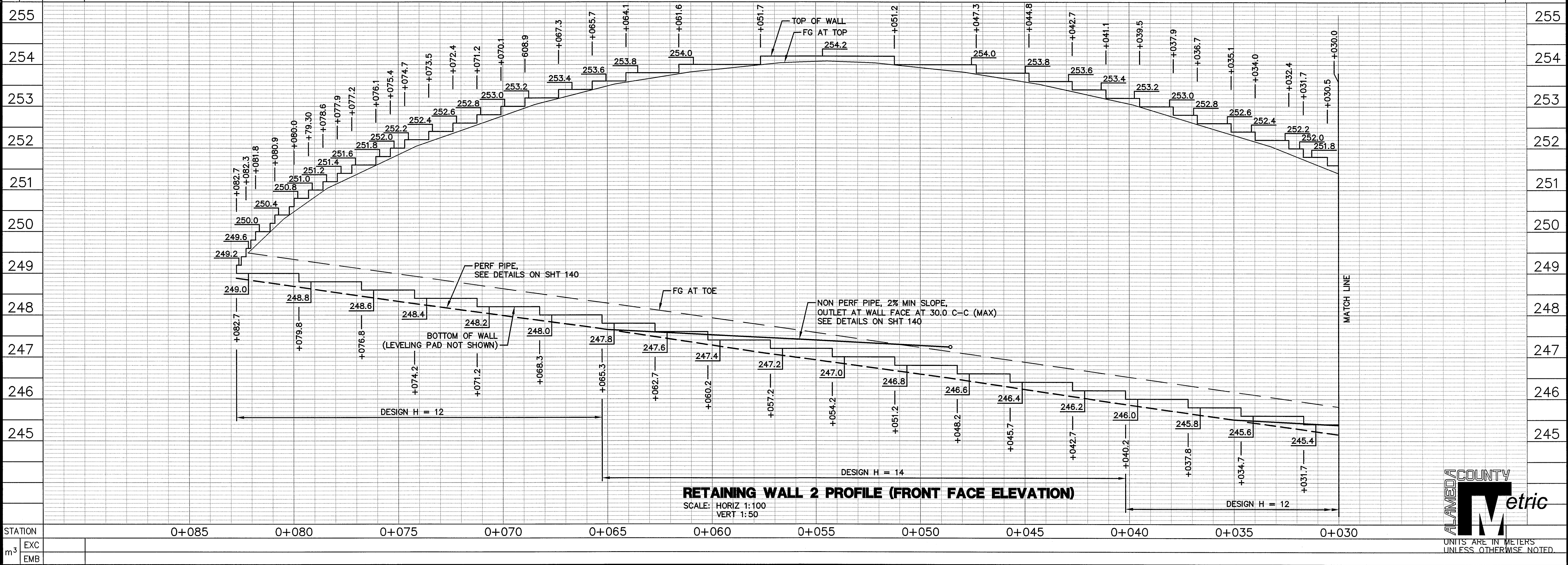
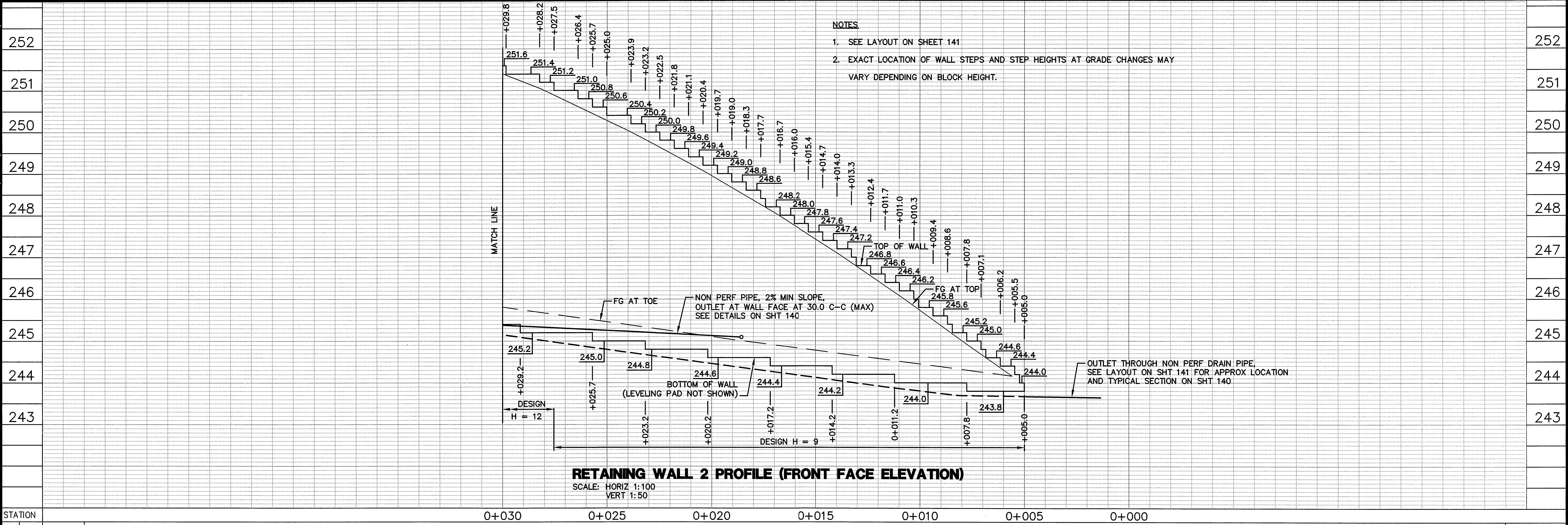
COUNTY OF ALAMEDA ★ PUBLIC WORKS AGENCY
THE RELOCATION OF VASCO ROAD
FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3
REVIEWED: *James Ch...*
DESIGNED: *James Ch...*
APPROVAL RECOMMENDED: *James Ch...*
STANLEY W. FUNG

RETAINING WALL 1 PROFILE

DATE: JAN 2008
SCALE: AS SHOWN
WORK ORDER NO. R23265
SPECIFICATION NO. 1903
SHEET NO. 142 OF 145
FILE NO. U-357-6

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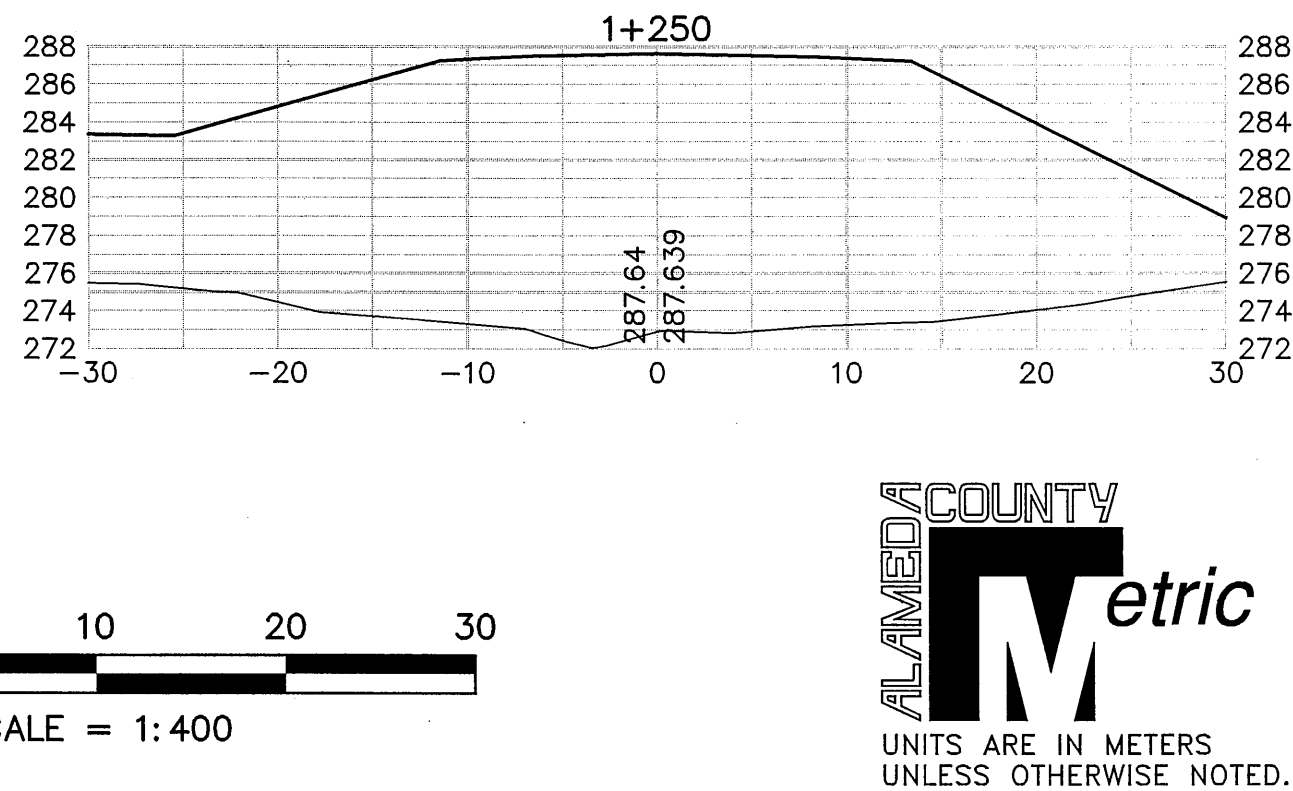
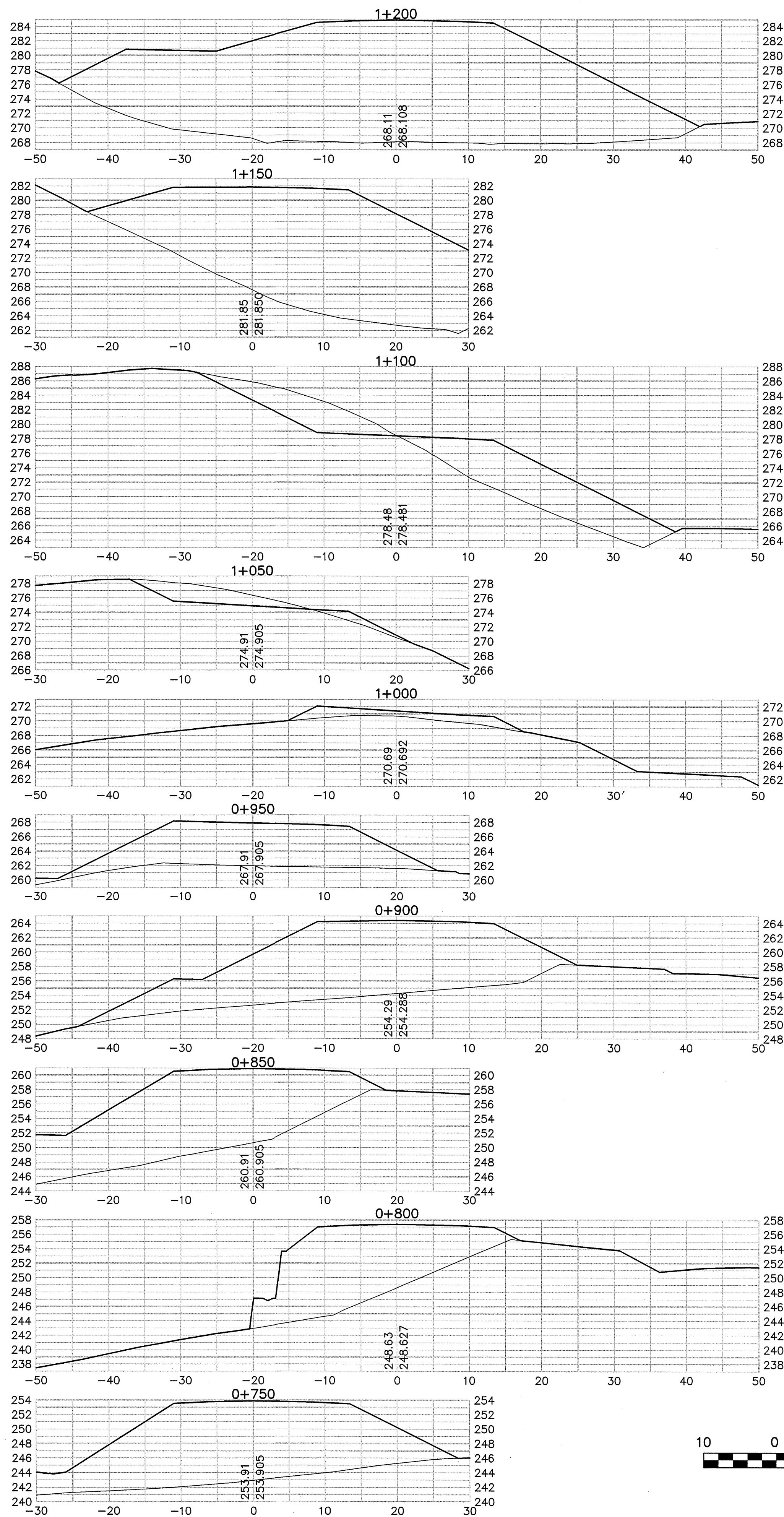
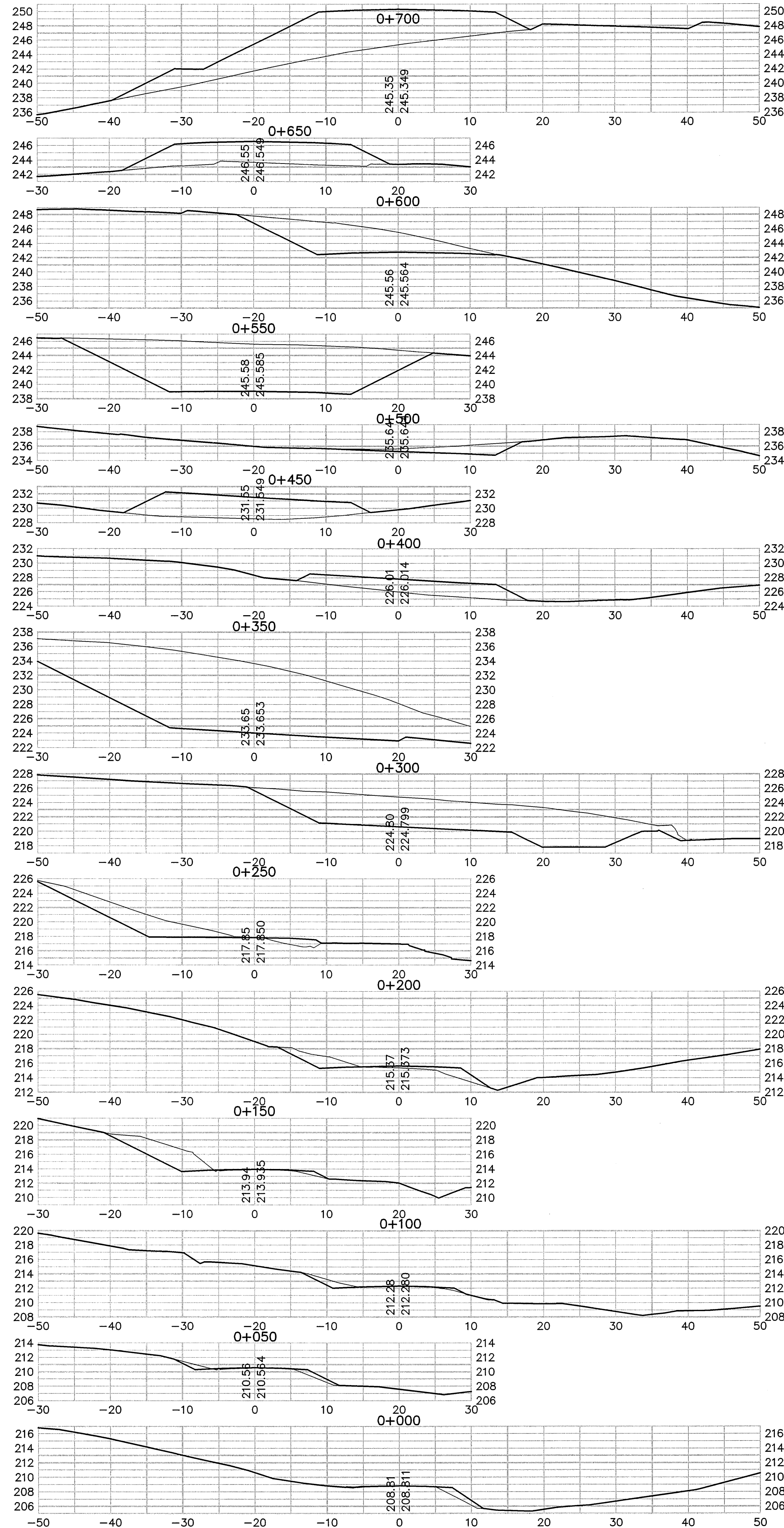
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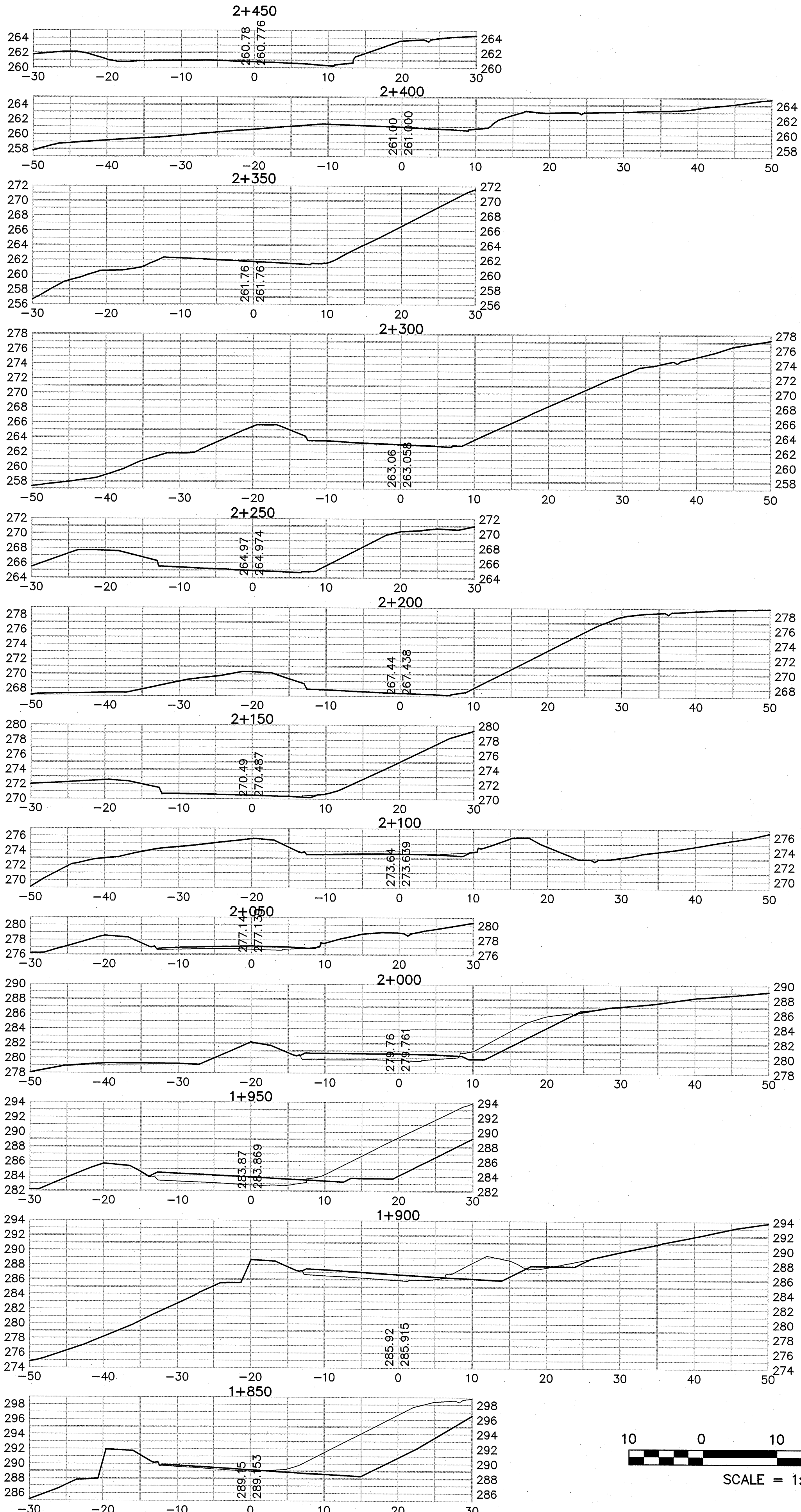
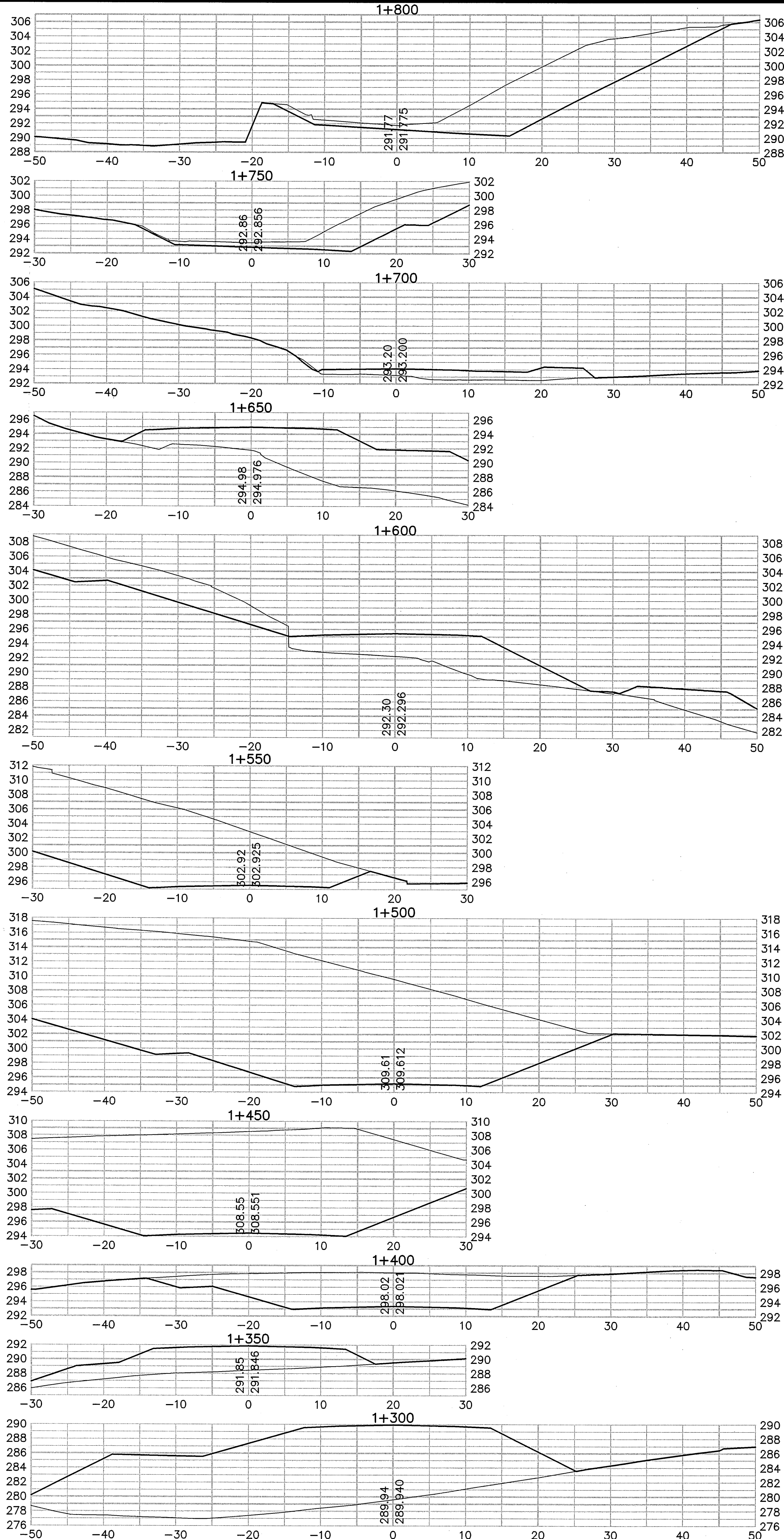
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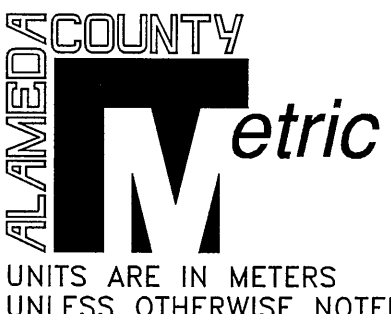
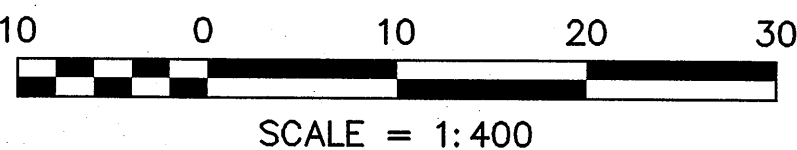
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3 CROSS SECTIONS - V LINE		APPROVAL RECOMMENDER  JAMES CHU No. 39857 Exp 12/31/2008 CIVIL JUNIOR OF CALIF.		REVISIONS	
WORK ORDER NO. R23265		APPROVAL RECOMMENDER  JAMES CHU No. 39857 Exp 12/31/2008 CIVIL JUNIOR OF CALIF.		NO.	
SPECIFICATION NO. 1903		APPROVAL RECOMMENDER  JAMES CHU No. 39857 Exp 12/31/2008 CIVIL JUNIOR OF CALIF.		DESCRIPTION	
SHEET NO. 144 OF 145		APPROVAL RECOMMENDER  JAMES CHU No. 39857 Exp 12/31/2008 CIVIL JUNIOR OF CALIF.		BY	
FILE NO. U-357-6		APPROVAL RECOMMENDER  JAMES CHU No. 39857 Exp 12/31/2008 CIVIL JUNIOR OF CALIF.		DATE	
APPROVED		APPROVAL RECOMMENDER  JAMES CHU No. 39857 Exp 12/31/2008 CIVIL JUNIOR OF CALIF.		APPROV'D	

REVIEWED BY:		DATE:	REVIEWED BY:		DATE:
CONSTRUCTION MAINTENANCE REAL ESTATE	SURVEY TRAFFIC ENVIRONMENTAL				

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LEGEND
— FINISHED GRADE
- - - ORIGINAL GROUND



COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY		REVISIONS	
THE RELOCATION OF VASCO ROAD FROM THE VICINITY OF MILEPOSTS 3.0 TO 4.3		NO. DESCRIPTION BY DATE APP'D	
CROSS SECTIONS - V LINE			
WORK ORDER NO. R23265			
SPECIFICATION NO. 1903			
SHEET NO. 145 OF 145			
FILE NO. U-357-6			
APPROVED: [Signature] JAMES CHU		APPROVED: [Signature] JAMES CHU	
DATE: JAN 2008		DATE: JAN 2008	
SCALE: 1:400		SCALE: 1:400	