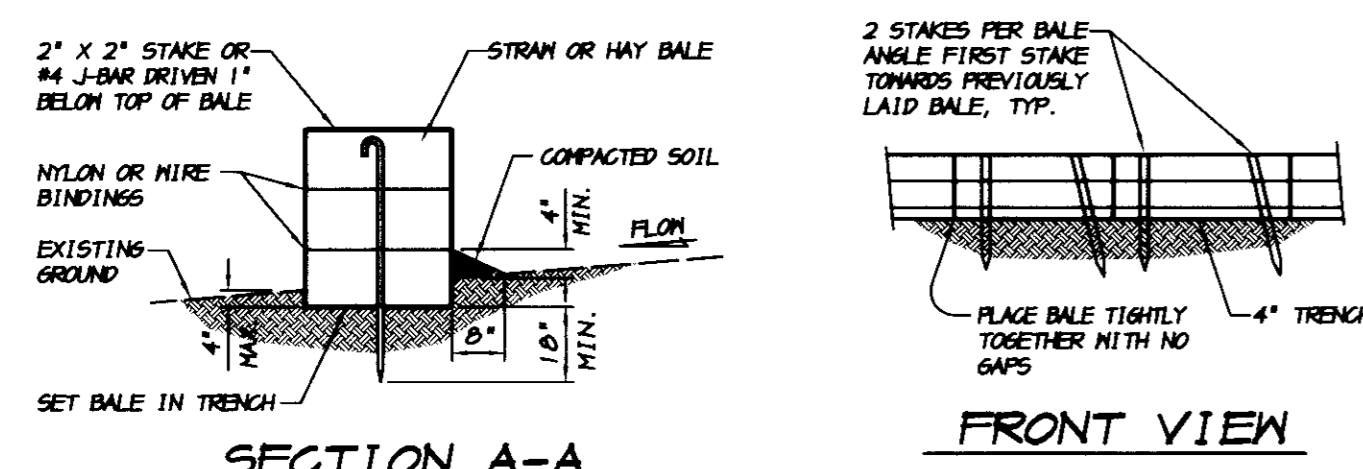


**NOTES**

- BALES SHALL BE PLACED TIGHTLY ABUTTED TOGETHER IN A TRENCH EXCAVATED A MINIMUM OF 4 INCHES BELOW THE INLET. BALES SHALL BE PLACED SO THAT BINDINGS ARE HORIZONTAL.
- EACH BALE SHALL BE ANCHORED BY A MINIMUM OF TWO 2" x 2" STAKES OR TWO #4 J-BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND A MINIMUM DEPTH OF 18". TOPS OF STAKES OR J-BARS SHALL BE COUNTERSUNK A MINIMUM OF 1" BELOW THE TOP OF THE BALE.
- OUTER PERIMETER OF THE BALES SHALL BE BACK FILLED AND COMPACTED TO A DEPTH OF APPROXIMATELY 4 INCHES WITH EXCAVATED MATERIAL.
- CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH RAINFALL TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED WHEN IT HAS BUILT UP TO A DEPTH OF APPROXIMATELY 6". BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

**STRAW BALE INLET FILTER**  
NO SCALE

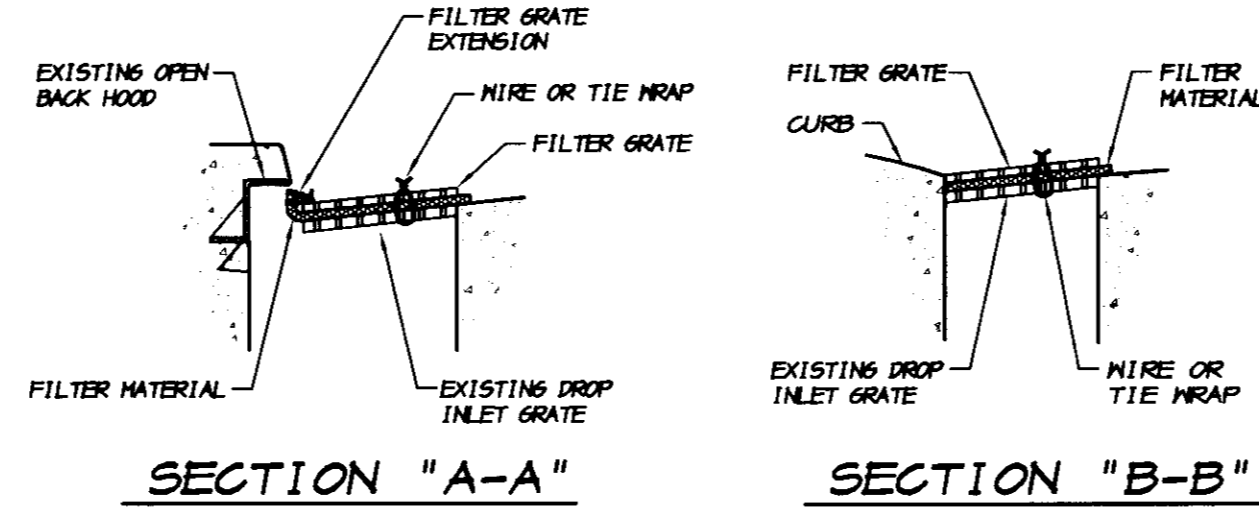
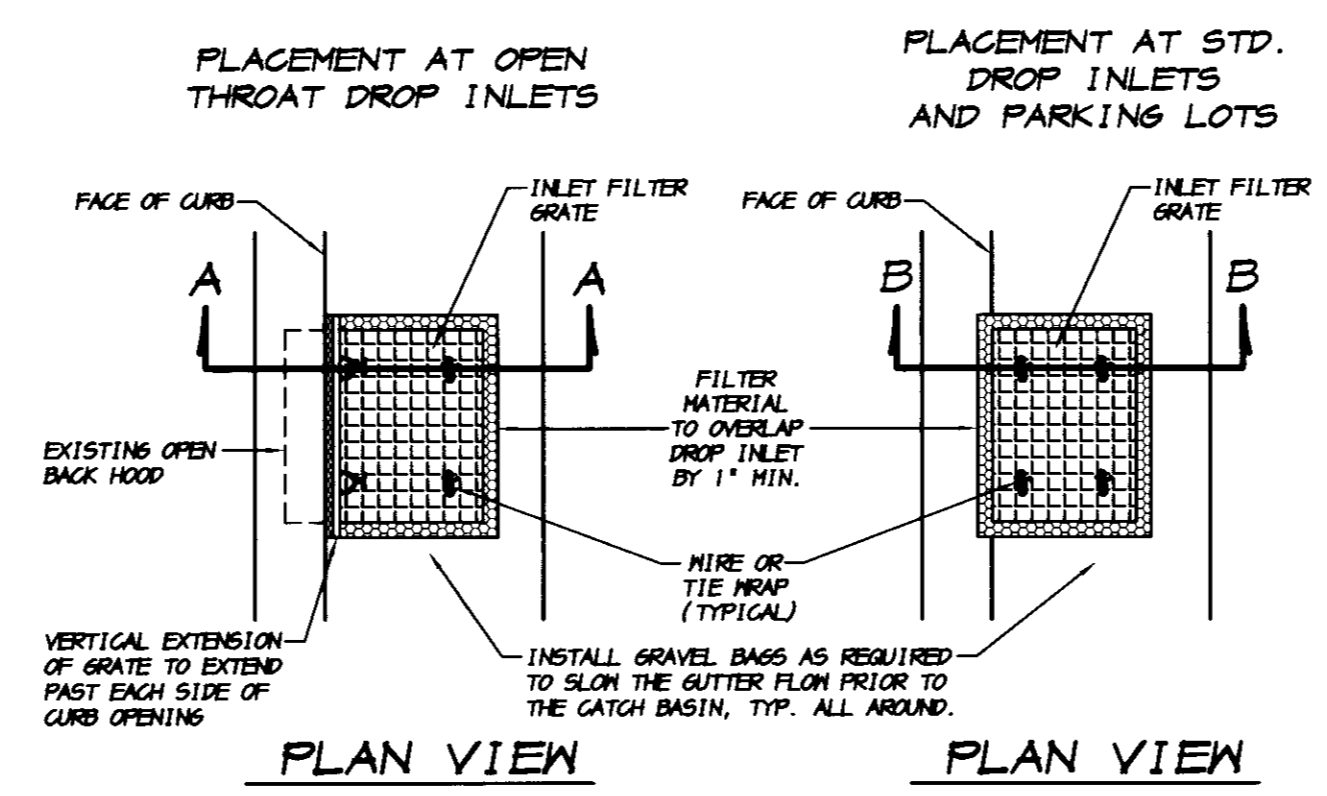


**STRAW BALE ALIGNMENT**  
NO SCALE

**NOTES**

- PLACE BALES IN 4 INCH DEEP TRENCH ALONG THE CONTOUR OF THE SLOPE IN THE SHAPE OF AN ARC WITH THE ENDS UPHILL OF THE ARC'S CENTER. BALES SHALL BE PLACED SO THAT BINDINGS ARE HORIZONTAL.
- BALES SHALL BE ANCHORED BY TWO 2" x 2" STAKES OR #4 J-BAR DRIVEN THROUGH THE BALE AND 1" TO THE GROUND A MINIMUM DEPTH OF 18 INCHES. STAKES OR J-BARS SHALL BE DRIVEN 1 INCH OR MORE BELOW THE TOP OF THE BALE. THE FIRST STAKE OR J-BAR IN EACH BALE SHALL BE DRIVEN AT AN ANGLE TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY ABUTTED TOGETHER.
- AFTER BALES ARE STAKED IN PLACE, EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE UPHILL SIDE TO A MINIMUM HEIGHT OF 4 INCHES.
- CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 6 INCHES. BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

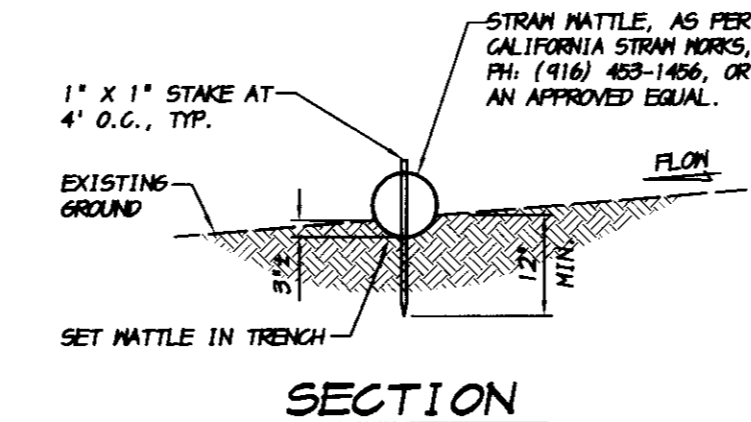
**SILT FENCE STRAW BALE BARRIER**  
NO SCALE



**NOTES**

- THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 2 ACRES.
- THE FILTER PAD SHALL BE 1 INCH THICK CLEANABLE POLYESTER FIBER AND ACRYLIC LATEX RESIN OR APPROVED EQUAL. THE FILTER PAD SHALL OVERLAP DROP INLET ON ALL SIDES BY A MINIMUM OF 1 INCH.
- THE FILTER GRATE SHALL BE MADE OF EXPANDED METAL OR REBAR AND BE OF SUFFICIENT STRENGTH TO PREVENT BENDING WHEN DRIVEN OVER. GRATE MATERIAL SHALL NOT EXCEED 0.5" THICK. THE GRATE SHALL HAVE A MINIMUM 60% OPEN AREA. GRATES USED AT TYPE B AND E INLETS SHALL HAVE A VERTICAL EXTENSION TO COVER THE CURB OPENING. THE FILTER GRATE SHALL BE THE SAME SIZE AS THE DROP INLET GRATE.
- THE FILTER PAD AND GRATE SHALL BE SECURELY ATTACHED TO THE DROP INLET BY WIRE OR TIE-WRAPS.
- INLET FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. REPAIRS AND SEDIMENT AND DEBRIS REMOVAL SHALL BE MADE AS NECESSARY.
- INLET FILTERS SHALL BE OF THE PEA GRAVEL BAG AND FILTER CLOTH VARIETY.

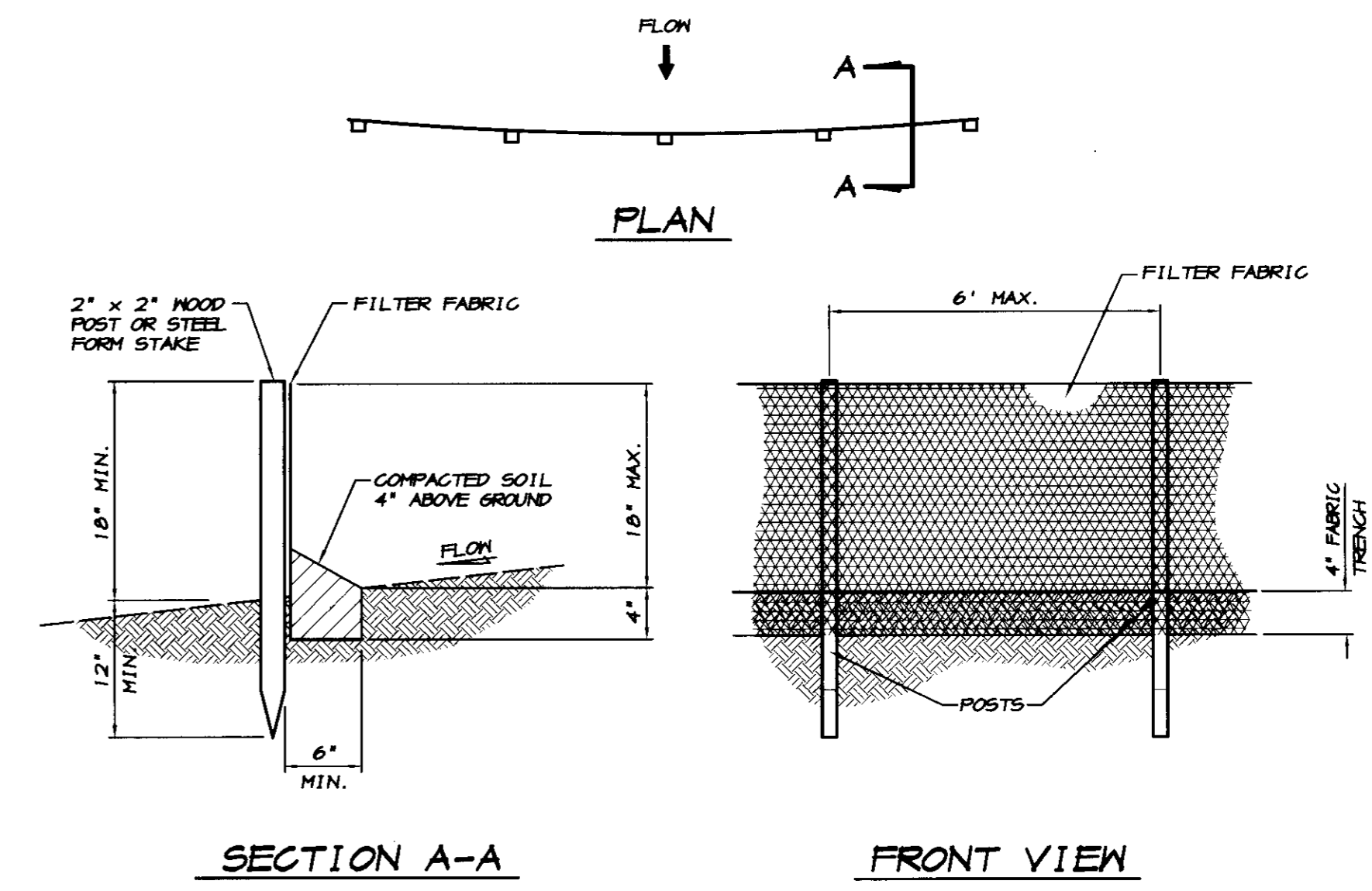
**STORM DRAIN INLET FILTER**  
NO SCALE



**NOTE**

- STRAW MATTLES MAY BE USED IN PLACE OF SILT FENCE.
- CONTRACTOR SHALL INSPECT MATTLES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 4 INCHES. MATTLES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

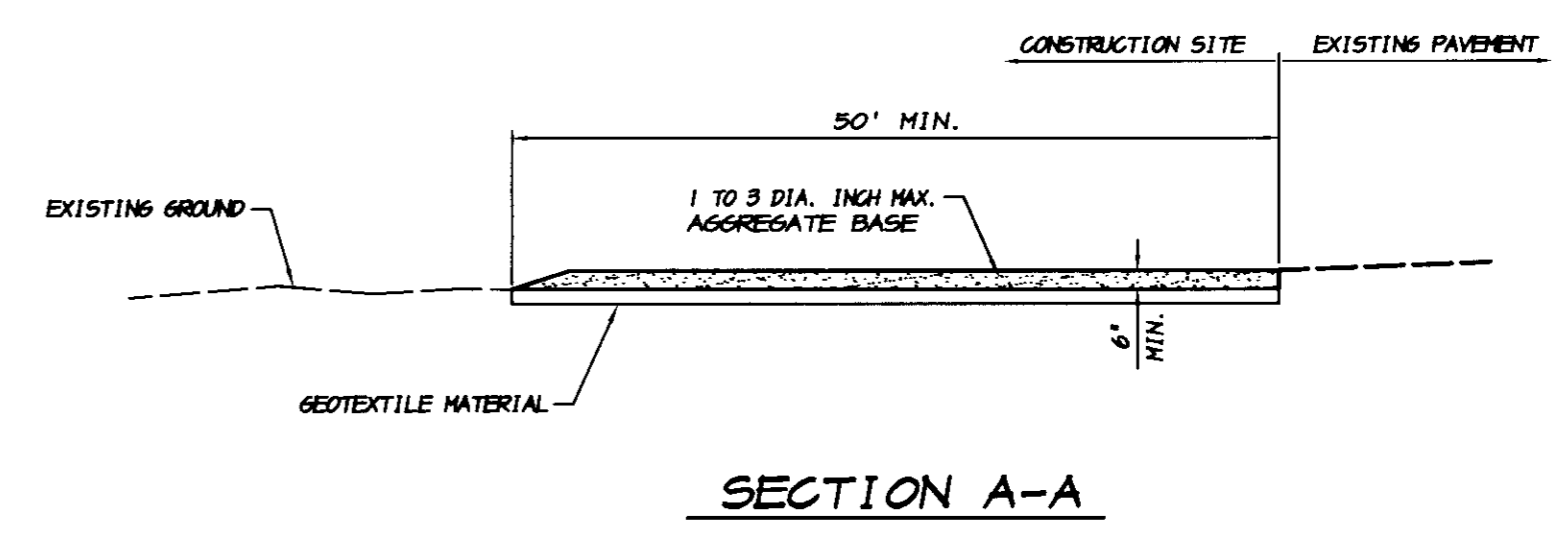
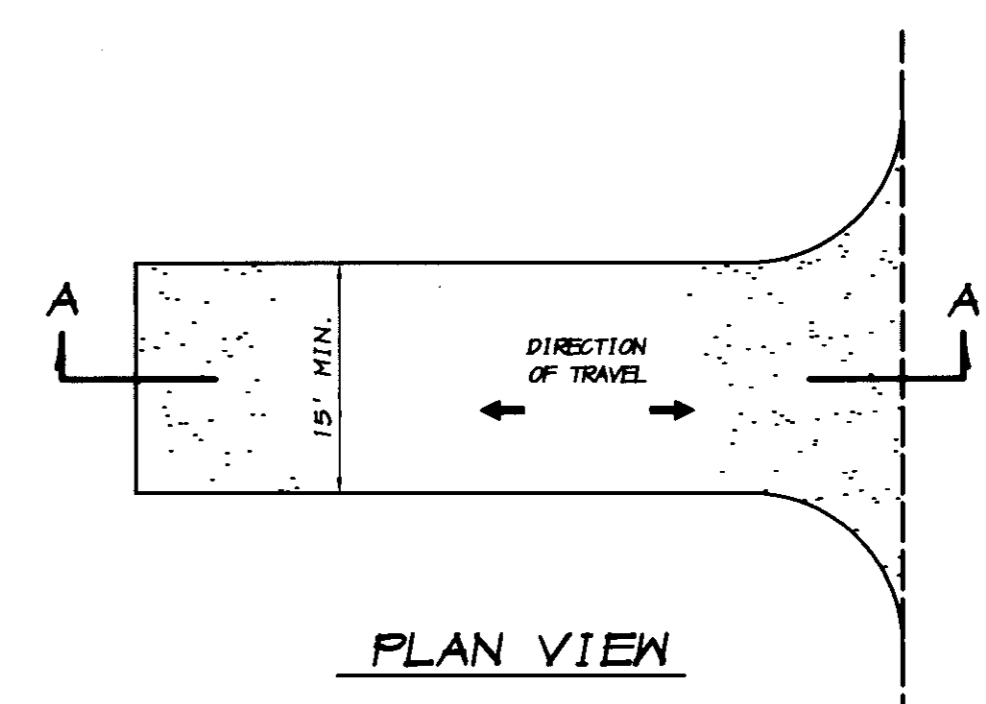
**STRAW MATTLE DETAIL**  
NO SCALE



**NOTES**

- FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE ADMINISTRATOR.
- FILTER FABRIC SHALL BE PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAR FOOT AT 20 PERCENT MAXIMUM ELONGATION AND CONTAINING ULTRAVIOLET INHIBITORS. FILTER FABRIC SHALL RETAIN A MINIMUM OF 80% OF THE SOIL, BY HEIGHT, BASED ON SIEVE ANALYSIS, BUT IS NOT FINER THAN AN EQUIVALENT OPENING SIZE OF 70.
- SUPPORT POSTS SHALL BE A MINIMUM 30 INCHES LONG 2" x 2" WOOD POSTS OR STEEL FORM STAKES DRIVEN A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM 6 FEET APART.
- A 4 INCH FABRIC TRENCH SHALL BE EXCAVATED ALONG THE UPHILL SIDE OF FILTER BARRIER POSTS. THE BOTTOM EDGE OF THE FABRIC SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACK FILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FILTER FABRIC.
- CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.

**SILT FENCE FILTER BARRIER**  
NO SCALE



**NOTES**

- STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 1" TO 3" MAX. AGGREGATE BASE MATERIAL CONFORMING TO CITY OR COUNTY STANDARDS. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6". THE METHOD OF PLACING, SPREADING AND COMPACTING AGGREGATE BASE MATERIAL SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
- LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MIN. OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.
- THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSINGS WITH AGGREGATE BASE MATERIAL.
- ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

**STABILIZED CONSTRUCTION SITE ACCESS**  
NO SCALE

TRACT NO. 3476

**EROSION CONTROL DETAILS**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
SAN JOAQUIN COUNTY CALIFORNIA

RYAN CARRELL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
RYAN D. CARRELL  
No. 61619  
Exp. 6/30/07  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: J. S. H.  
DATE: SEPT. 27, 2005  
SCALE: 1"=40'  
DWG: 296H-EROS  
CHECKED: KW  
JOB #: 296H-04

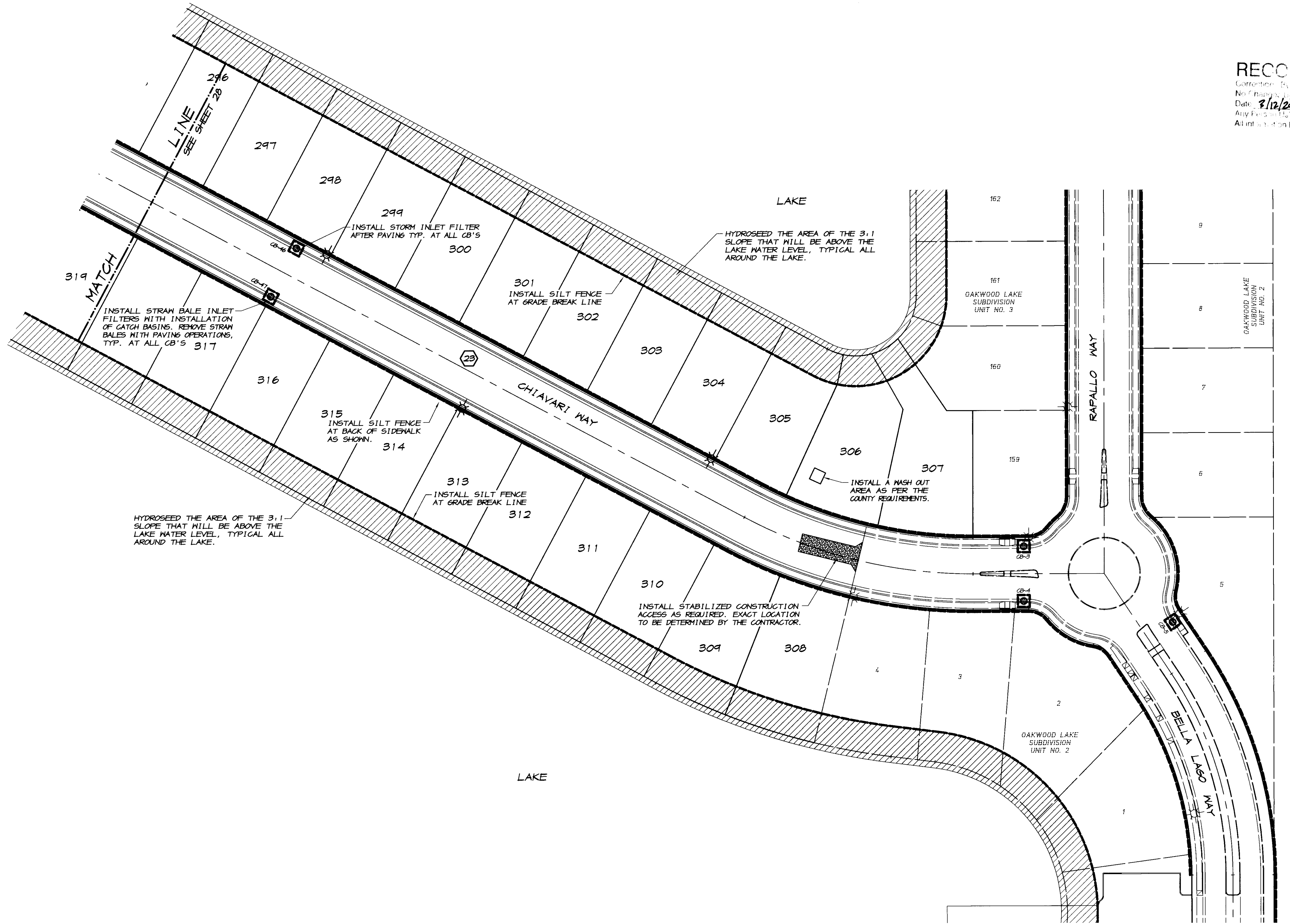
SHEET **30** OF **30**

**RECORD DRAWING**

Corrections By: *J. S. H.*  
No Changes By: *J. S. H.*  
Date: 3/12/2008  
Any Resubmittals Must be a Joint Activity  
All Information Pertaining to this State Of Work

SU 4017

SU 4018



**RECORD DRAWING**  
 Correction: [Signature]  
 No Change  
 Date: 9/12/2008  
 Any Field Changes to this Drawing are the Responsibility of the Contractor.  
 All information is to be reported to the City of Work

REVISION	DATE	DESCRIPTION	BY

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 347B

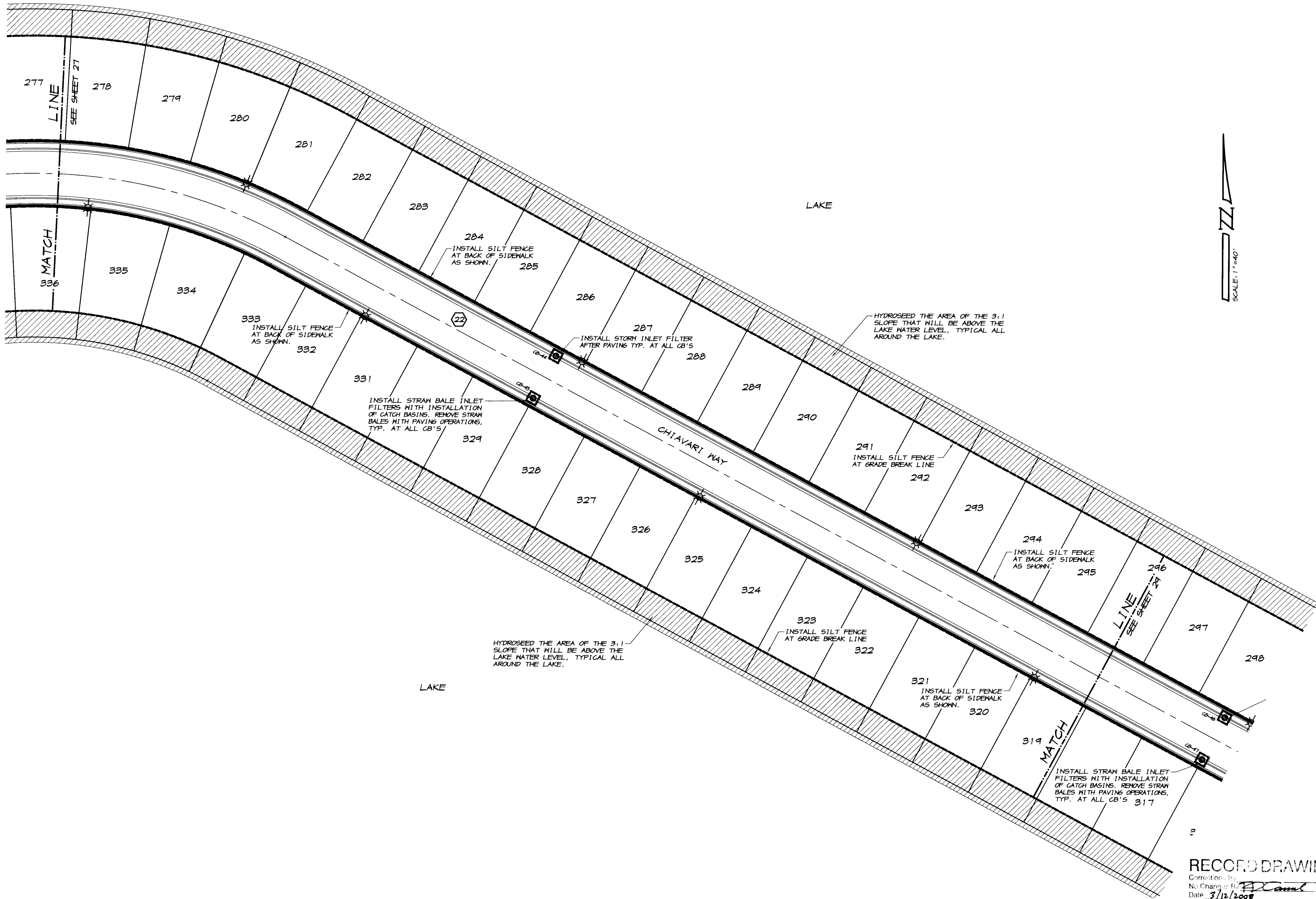
**PCamel**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J. S. H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-EROS  
 CHECKED: KW  
 JOB #: 296H-04

SHEET **29**  
 OF **30**

SU 4019



TRACT NO. 3478

**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RCamel**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-EROS  
 CHECKED: KM  
 JOB #: 296H-04

**RECORD DRAWING**

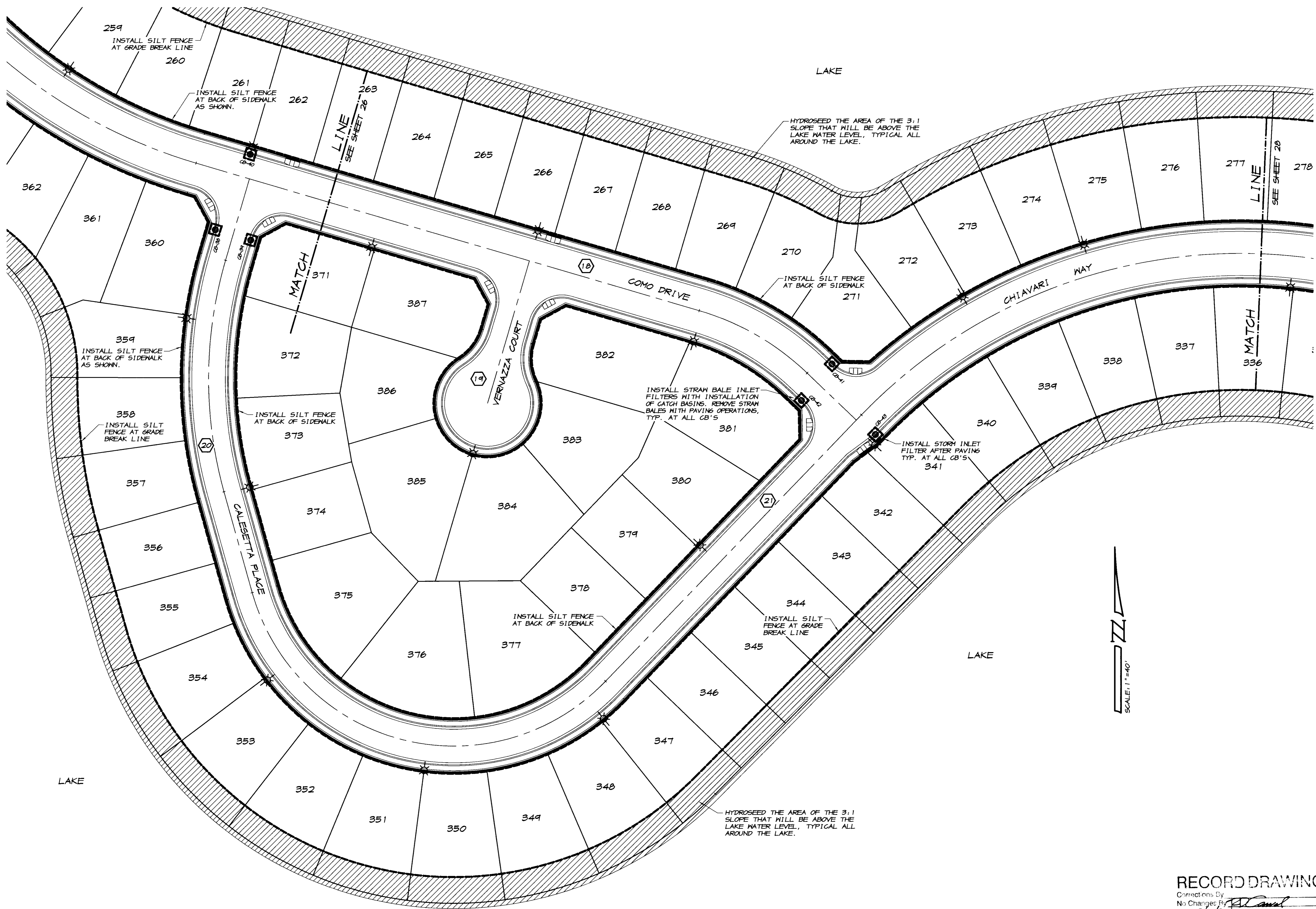
Correction by: **RCamel**  
 No Change by: **RCamel**  
 Date: 3/12/2008  
 Any Person Using This Drawing Without the Seal of Work

SHEET **28**  
 OF 30

**ASSOCIATED ENGINEERING, INC.**  
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REVISION	DATE	DESCRIPTION	BY



REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95356  
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**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 347B



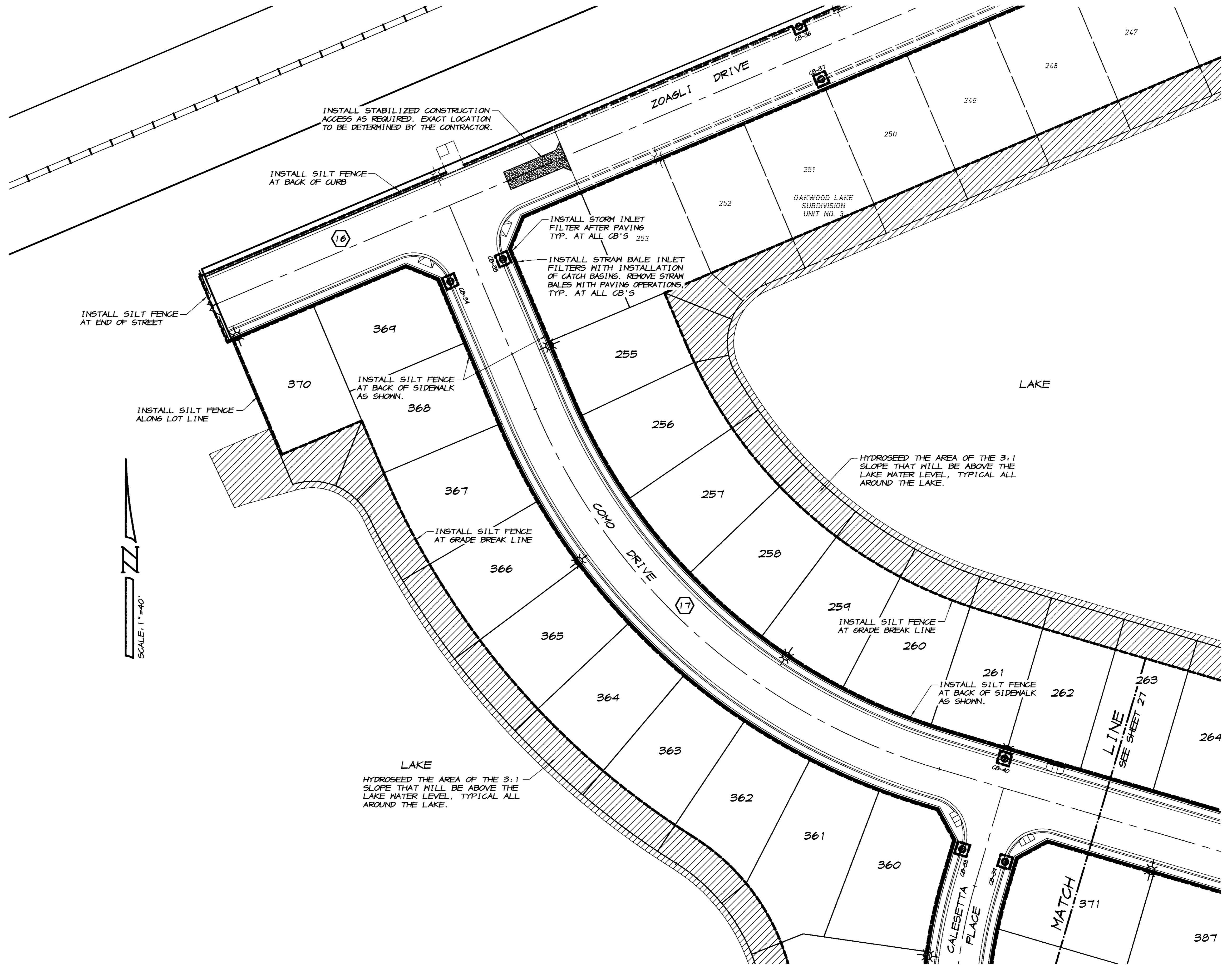
DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-EROS  
 CHECKED: KN  
 JOB #: 296H-04

**RECORD DRAWING**  
 Corrections By: \_\_\_\_\_  
 No Changes By: \_\_\_\_\_  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All Information By Visiting The Site Of Work

SHEET **27**  
 OF **30**

**LEGEND**

- P— EXISTING EDGE OF PAVEMENT
- P— EXISTING POWER POLE
- P— PROPOSED CURB, GUTTER & SIDEWALK
- ☼ PROPOSED ELECTROLIER (SEE IMPROVEMENT PLANS)
- S-002 PROPOSED SLOPE & DIRECTION OF FLOW
- CB-1 PROPOSED CATCH BASIN
- PROPOSED SILT FENCE, EITHER FABRIC OR STRAM TYPE PER DETAILS ON SHEET 30
- ▨ PROPOSED AREA OF SEEDING. SEE NOTES, SHEET 2



REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
Surveying • Design • Planning  
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PH: (209) 545-3390 FAX: (209) 545-3875

**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 347B

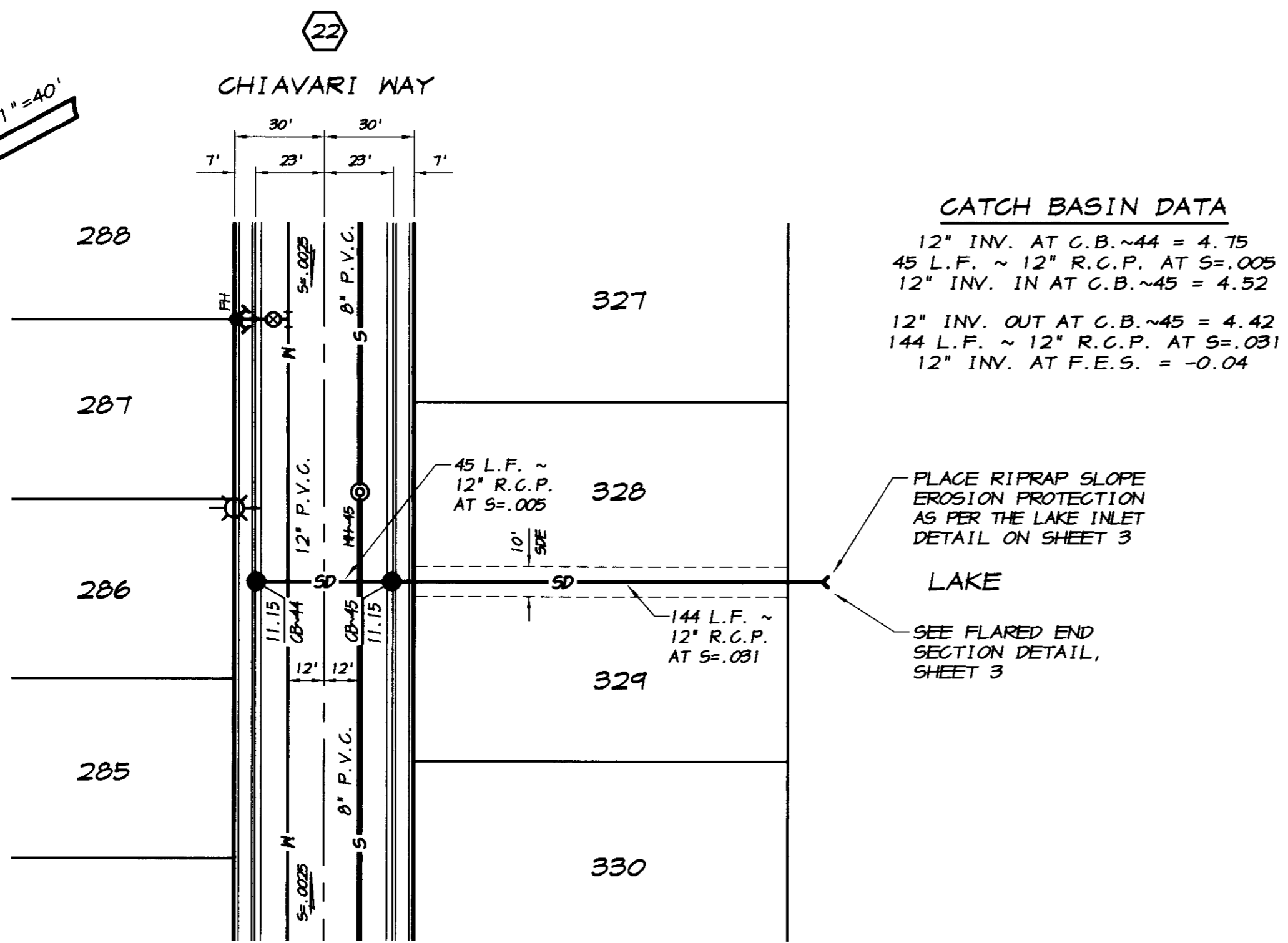
**RYAN CARREL, R.C.E. 61519**  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
RYAN D. CARREL  
No. 61519  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: J. S. H.  
DATE: SEPT. 21, 2005  
SCALE: 1" = 40'  
DWG: 296H-EROS  
CHECKED: KN  
JOB #: 296H-04

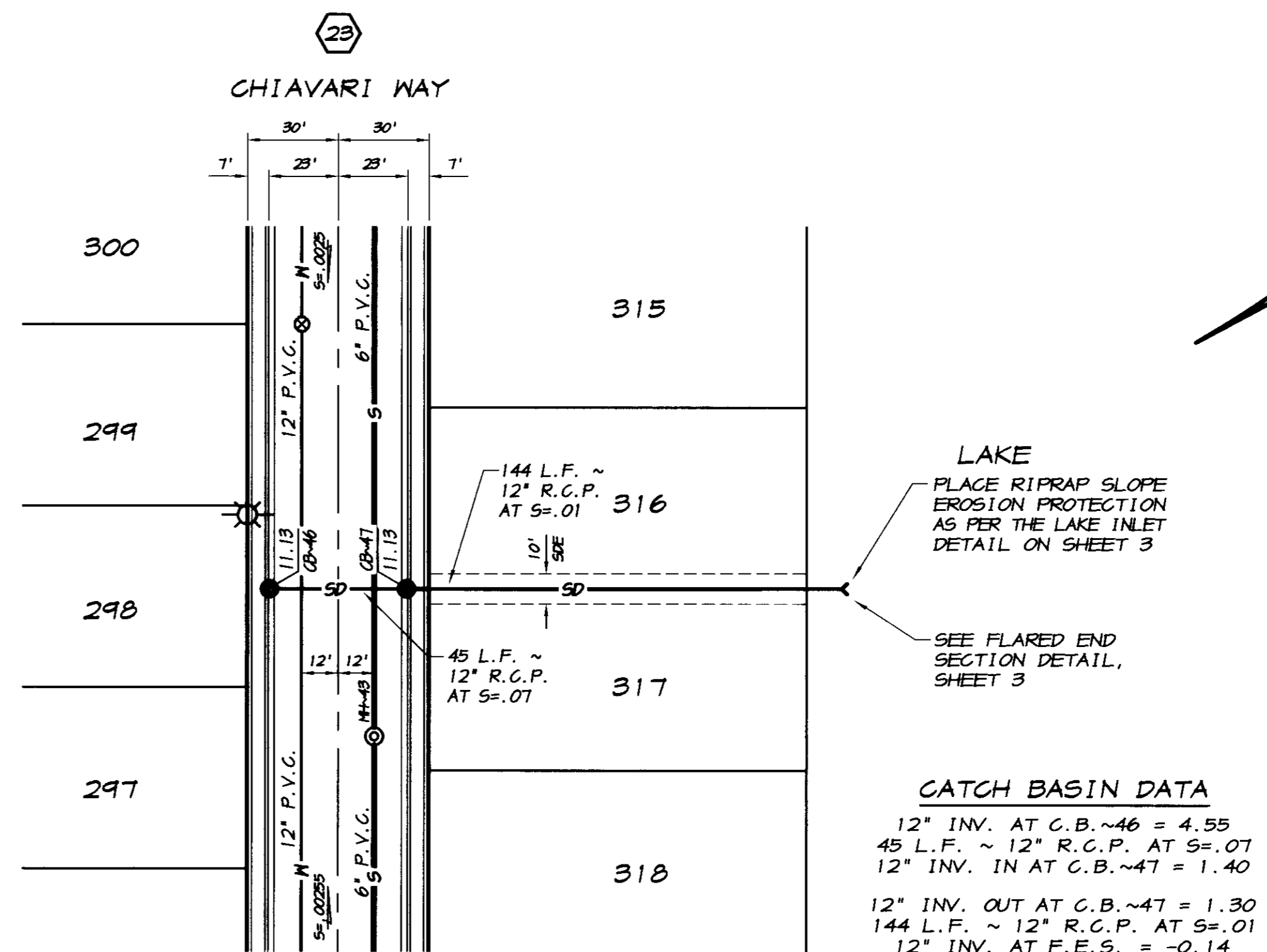
**RECORD DRAWING**  
Corrections by: PCamel  
No Change  
Date: 3/12/2008  
Any Project or Design Change is the Responsibility of the Client.  
All other work is the responsibility of the Contractor.

SHEET **26** OF **30**



**STORM DRAIN OUTFALL "C"**

SCALE: 1"=40'

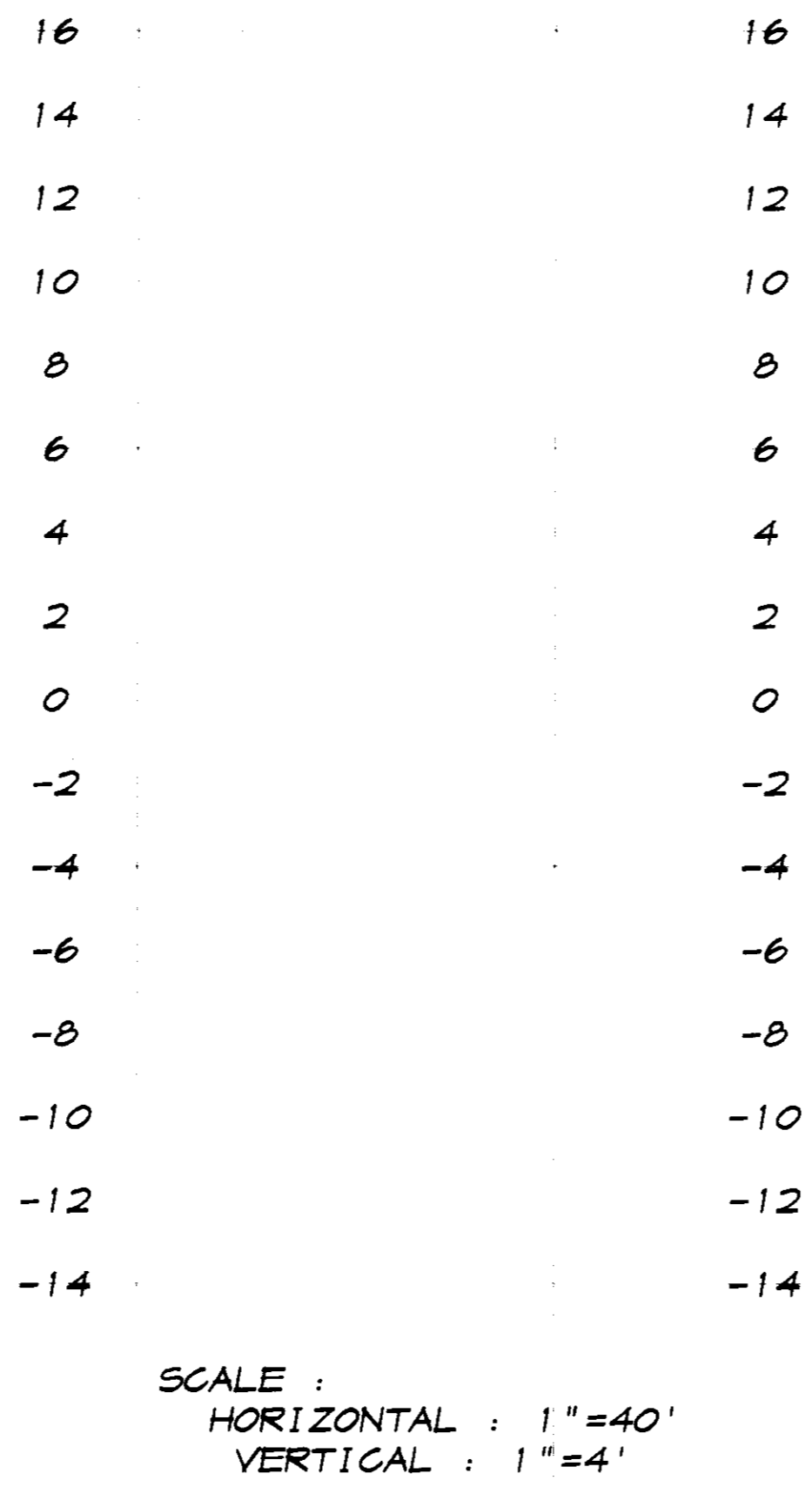
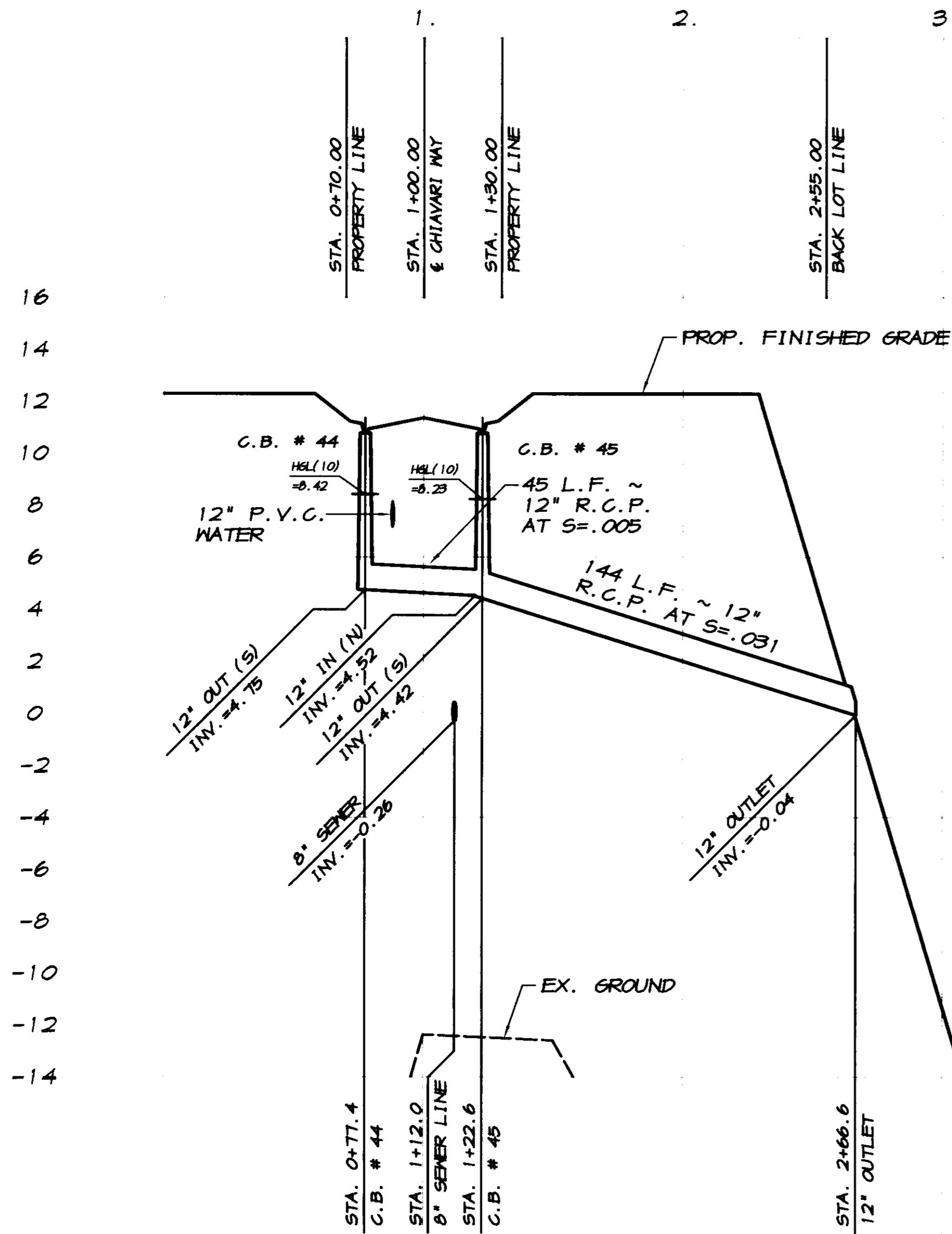


**STORM DRAIN OUTFALL "D"**

SCALE: 1"=40'

**RECORD DRAWING**

Corrected by: *[Signature]*  
 No Changes  
 Date: 3/12/2008  
 At: [Signature]  
 State of California Engineering Board



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

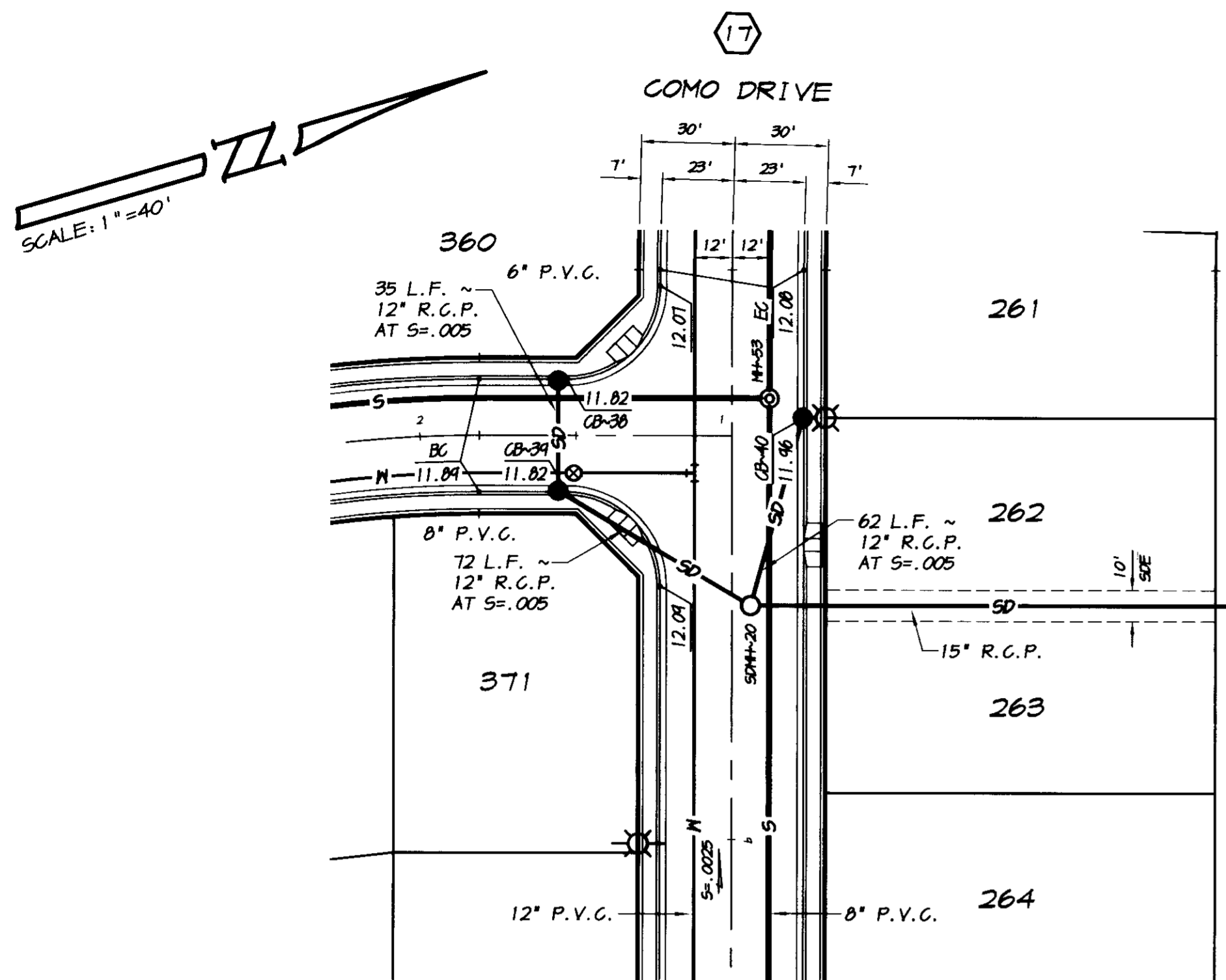


**PLAN AND PROFILE**  
**STORM DRAIN OUTFALL LINES**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

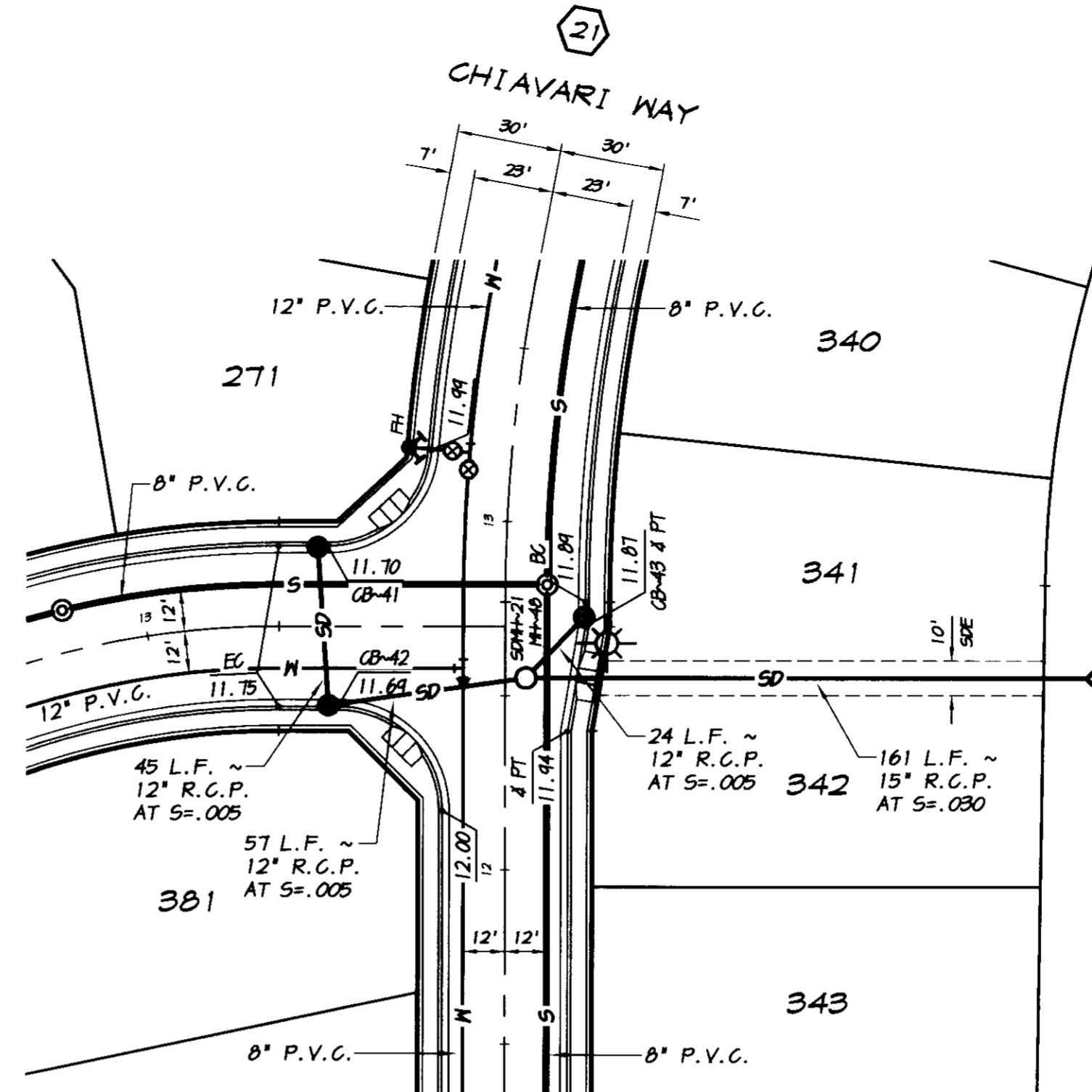


DRAWN BY: J.S.H.  
 DATE: SEPT. 21, 2005  
 SCALE: NOTED  
 DWG: 246H-SD0F  
 CHECKED: KW  
 JOB #: 246H-04



**STORM DRAIN OUTFALL "A"**

SCALE: 1"=40'



**STORM DRAIN OUTFALL "B"**

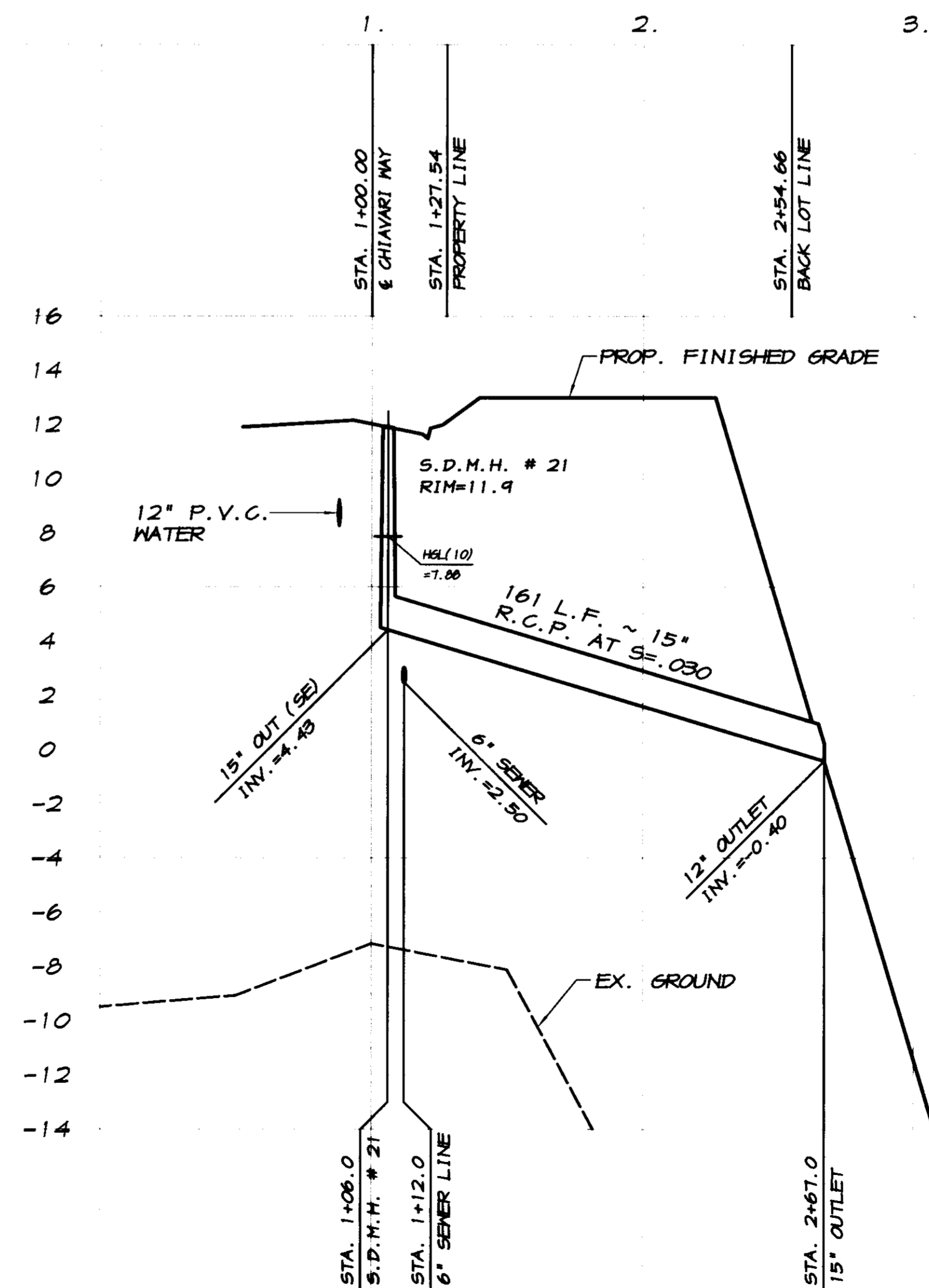
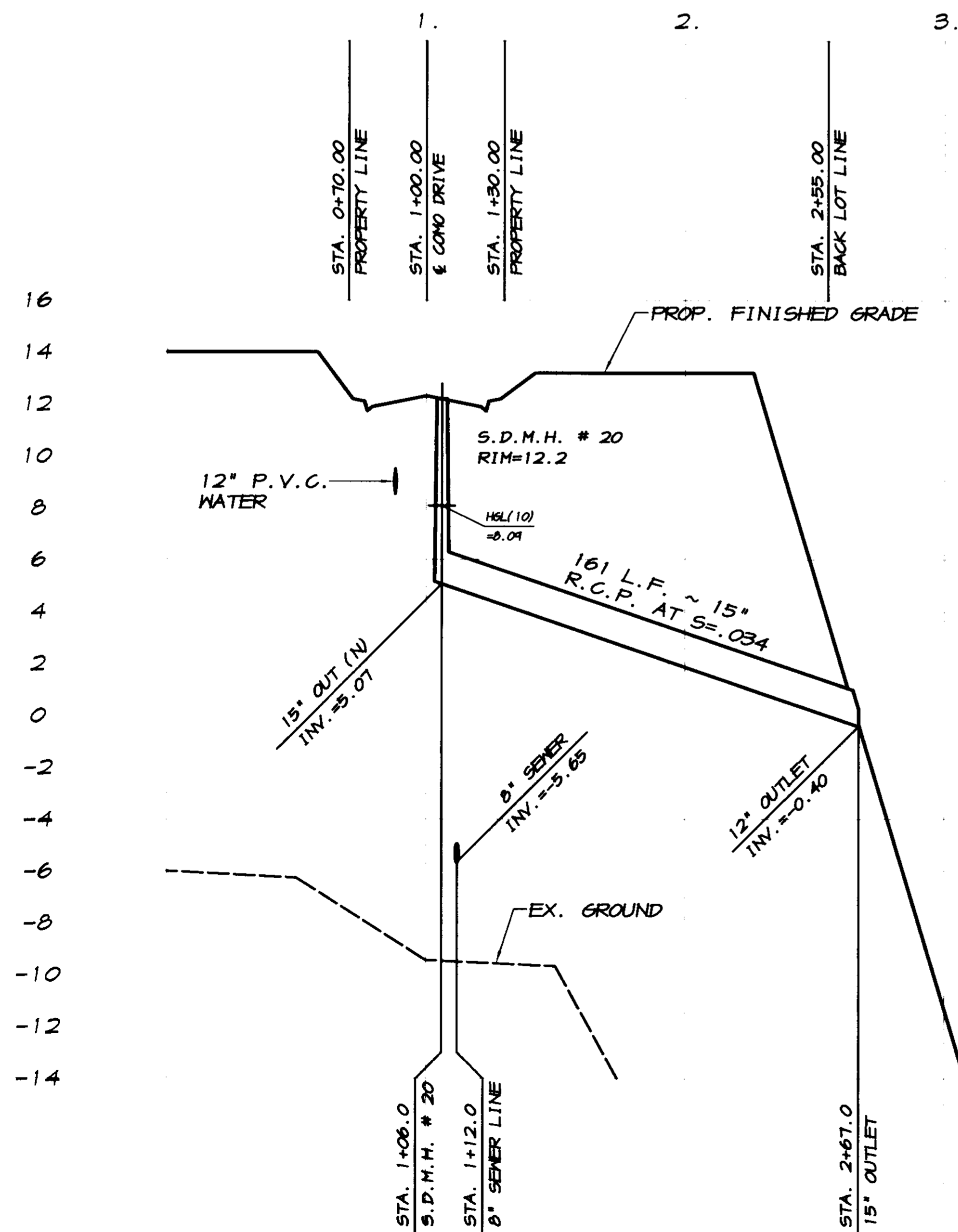
SCALE: 1"=40'

**CATCH BASIN DATA**

12" INV. AT C.B. ~41 = 5.30  
45 L.F. ~ 12" R.C.P. AT S=.005  
12" INV. IN AT C.B. ~42 = 5.07  
12" INV. OUT AT C.B. ~42 = 4.97  
57 L.F. ~ 12" R.C.P. AT S=.005  
12" INV. AT S.D.M.H. ~21 = 4.68  
12" INV. OUT AT C.B. ~43 = 7.40  
24 L.F. ~ 12" R.C.P. AT S=.005  
12" INV. AT S.D.M.H. ~21 = 7.28

**RECORDED DRAWING**

Corrected  
N. of  
Date: 7/12/2008  
BY: [Signature]  
FOR THE CITY OF OAKLAND, CALIFORNIA  
BY: [Signature]  
FOR THE COUNTY OF ALAMEDA, CALIFORNIA



SCALE:  
HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'

BY	
REVISION	DATE DESCRIPTION

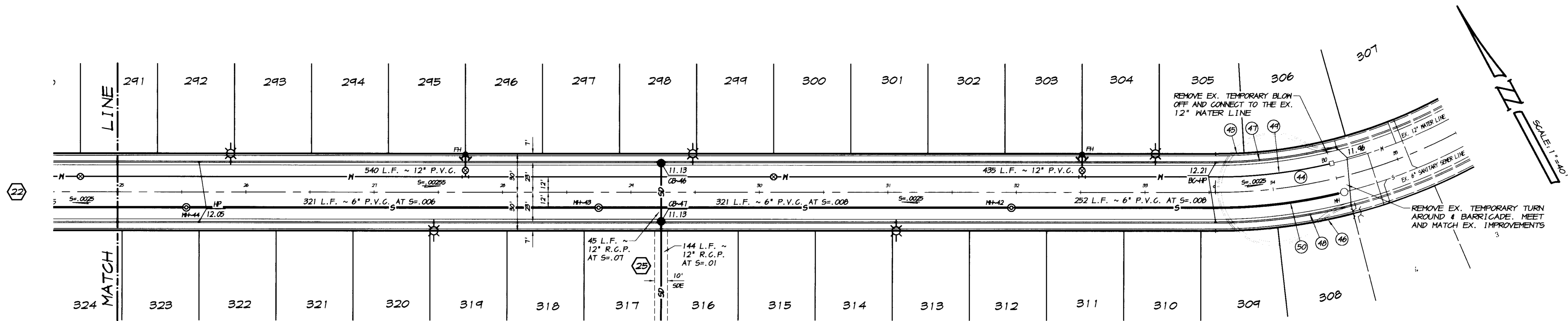
**ASSOCIATED ENGINEERING, INC.**  
Surveying • Design • Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
**STORM DRAIN OUTFALL LINES**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
SAN JOAQUIN COUNTY CALIFORNIA

**RECORDED PROFESSIONAL ENGINEER**  
RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

Drawn by: J.S.H.  
Date: SEPT. 21, 2005  
Scale: NOTED  
Dwg: 246H-SDOF  
Checked: KN  
Job #: 246H-04

SHEET **24** OF 30



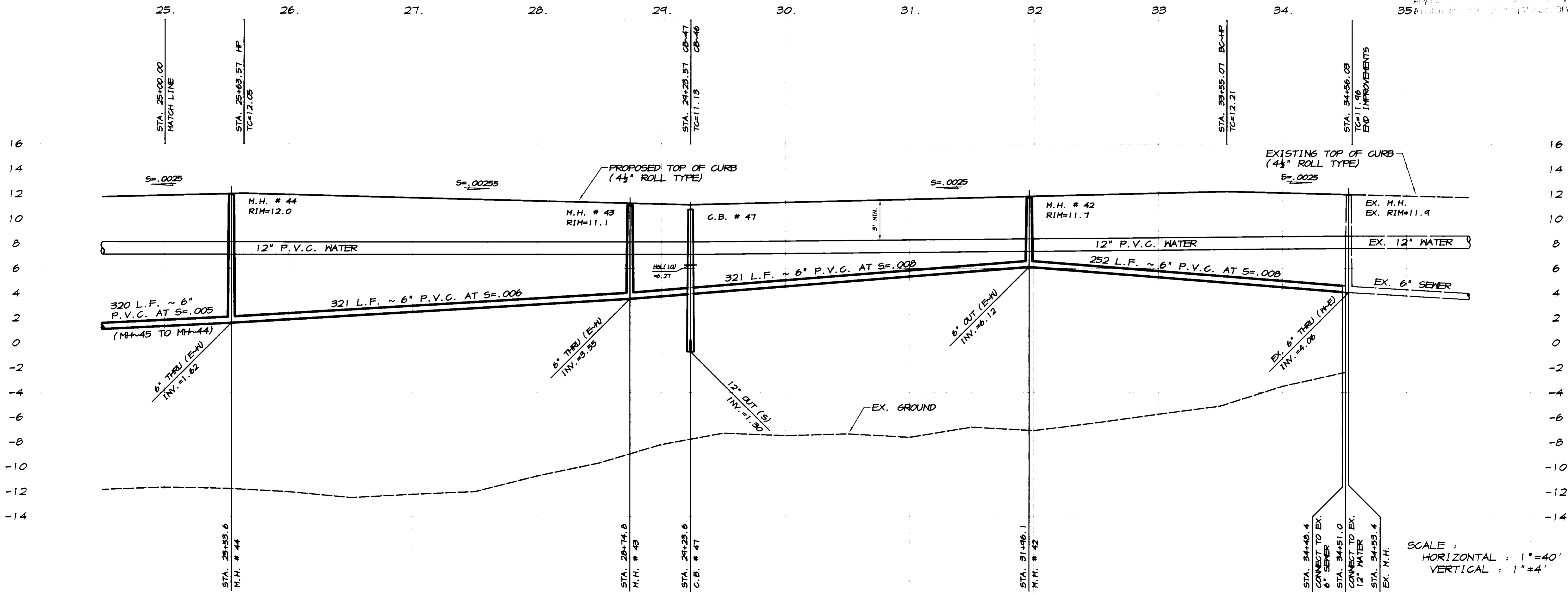
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 12" INV. IN AT C.B.~47 = 1.40  
 12" INV. OUT AT C.B.~47 = 1.30  
 144 L.F. ~ 12" R.C.P. AT S=.01  
 12" INV. AT F.E.S. = -0.14

**CHIAVARI WAY**

SCALE: 1"=40'

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(4)	28°09'30"	400.00'	196.58'	194.61'	100.32'	CL
(6)	28°09'30"	370.00'	181.84'	180.01'	92.79'	PL
(8)	14°27'42"	430.00'	108.53'	108.25'	54.56'	PL
(7)	14°27'42"	377.00'	95.16'	94.90'	47.83'	FL
(8)	14°27'42"	423.00'	106.77'	106.48'	53.67'	FL
(3)	13°13'29"	388.00'	89.56'	89.36'	44.98'	N
(5)	12°58'40"	412.00'	93.32'	93.12'	46.86'	S

REVISIONS  
 1/12/2008  
 [Signature]



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
 STA. 25+00 TO STA. 34+56  
**CHIAVARI WAY**  
 OAKLAND LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY CALIFORNIA

**RYAN CARREL, R.C.E. 61619**  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

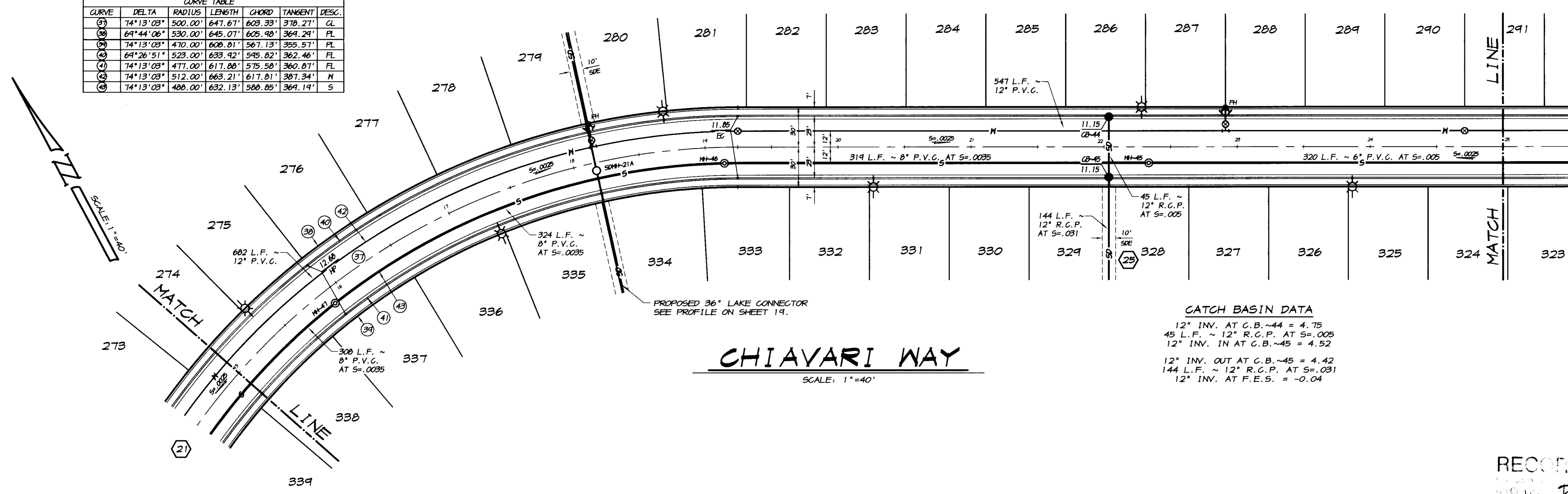
REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 No. 61619  
 Exp. 6-30-07

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2008  
 SCALE: NOTED  
 DWG: 296H-SL CPP  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **23**  
 OF 30



CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(3)	74°13'03"	500.00'	647.67'	603.33'	378.27'	CL
(4)	64°44'06"	530.00'	645.07'	605.48'	364.24'	FL
(5)	74°13'03"	470.00'	608.81'	567.13'	355.57'	FL
(6)	64°26'51"	523.00'	633.92'	595.82'	362.46'	FL
(7)	74°13'03"	477.00'	617.88'	575.58'	360.87'	FL
(8)	74°13'03"	512.00'	663.21'	617.81'	387.34'	N
(9)	74°13'03"	488.00'	632.13'	588.85'	364.14'	S



**CHIAVARI WAY**

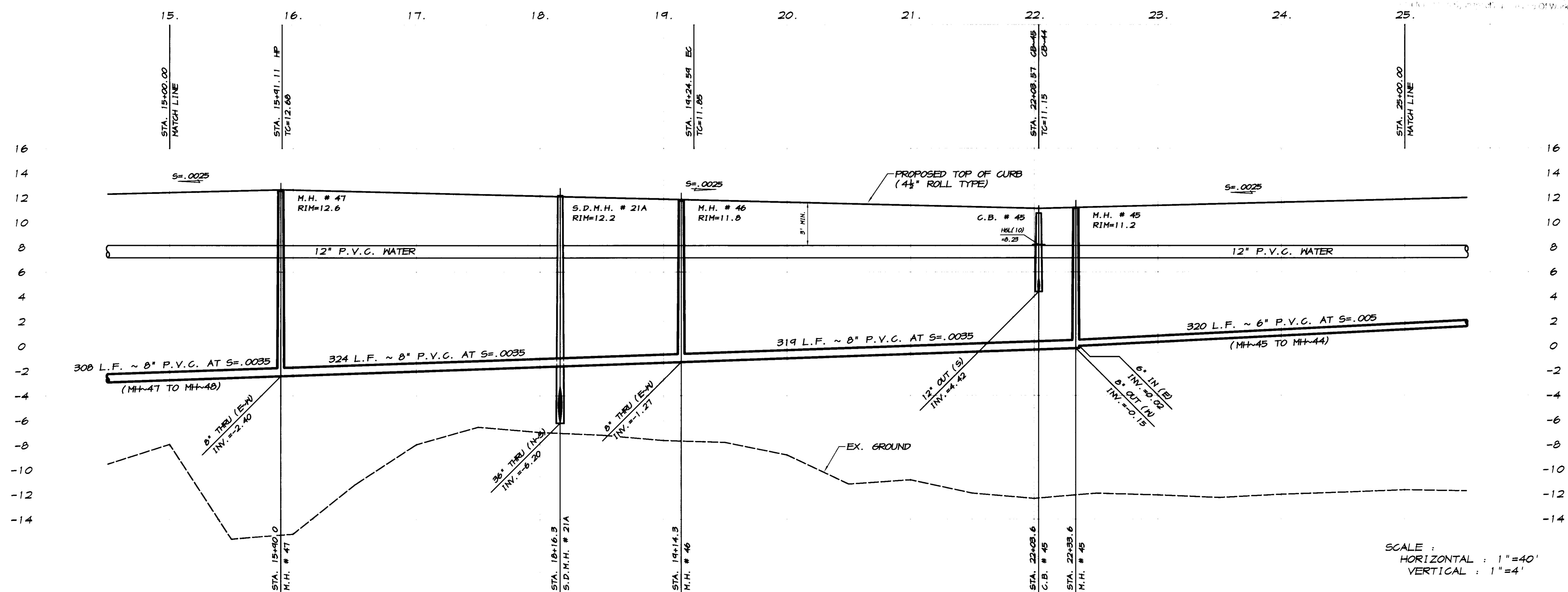
SCALE: 1"=40'

**CATCH BASIN DATA**

12" INV. AT C.B.#44 = 4.75  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.#45 = 4.52  
 12" INV. OUT AT C.B.#45 = 4.42  
 144 L.F. ~ 12" R.C.P. AT S=.031  
 12" INV. AT F.E.S. = -0.04

RECORD DRAWING

3/12/2008  
 [Signature]



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY: \_\_\_\_\_  
 REVISION DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

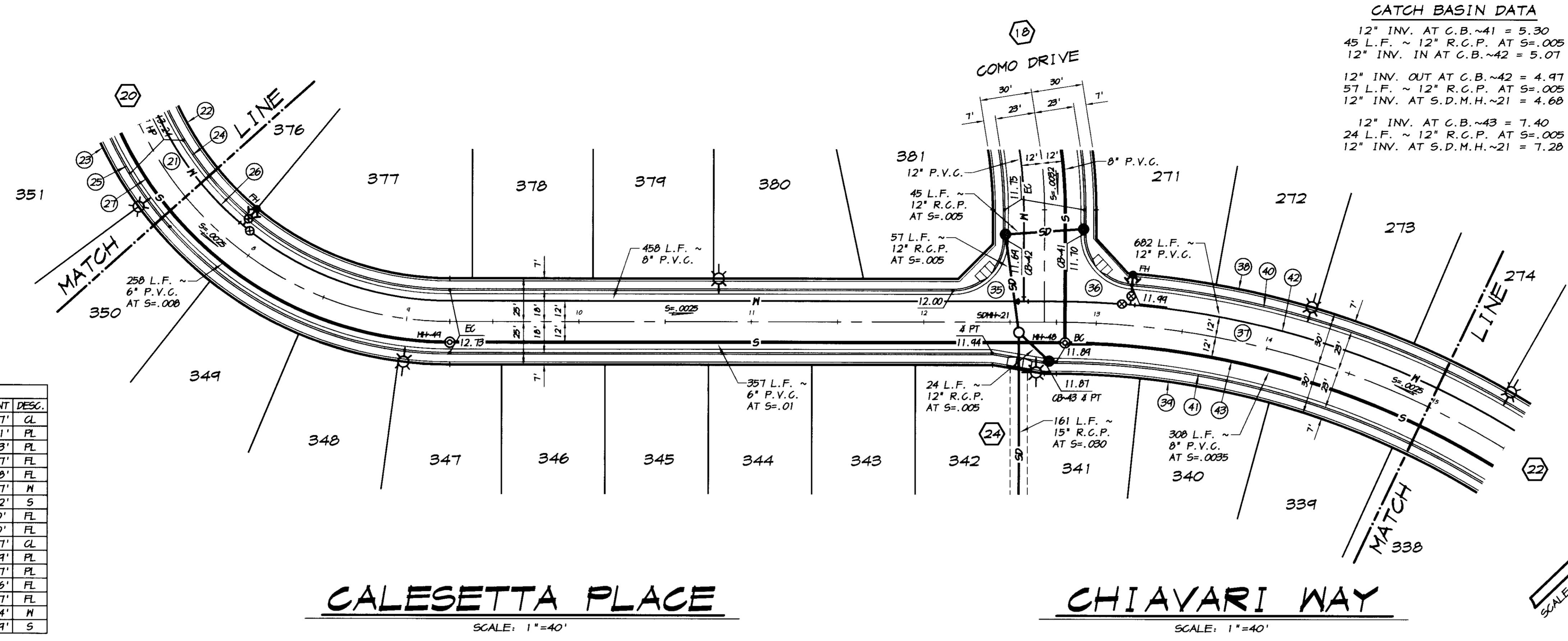
**PLAN AND PROFILE**  
 STA. 15+00 TO STA. 25+00  
**CHIAVARI WAY**  
 OAKWOOD LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: NOTED  
 DWG: 296H-SLCP  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **22** OF 30

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
21	120°31'14"	200.00'	420.70'	347.32'	350.07'	CL
22	120°31'14"	175.00'	360.11'	303.40'	306.31'	FL
23	120°31'14"	225.00'	473.28'	390.73'	343.83'	FL
24	120°31'14"	182.00'	382.89'	316.06'	318.57'	FL
25	120°31'14"	218.00'	458.56'	378.57'	381.58'	FL
26	120°31'14"	188.00'	395.45'	326.48'	329.07'	N
27	114°43'53"	212.00'	443.02'	366.70'	365.22'	S
28	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
29	85°13'44"	30.00'	44.63'	40.62'	27.60'	FL
30	74°13'03"	500.00'	647.67'	603.33'	378.27'	CL
31	64°44'06"	530.00'	645.07'	605.48'	364.24'	FL
32	74°13'03"	470.00'	608.81'	567.13'	355.57'	FL
33	64°26'51"	523.00'	633.92'	595.82'	362.46'	FL
34	74°13'03"	477.00'	617.88'	575.58'	360.87'	FL
35	74°13'03"	512.00'	663.21'	617.81'	387.34'	N
36	74°13'03"	488.00'	632.13'	588.85'	364.19'	S



**CALESETTA PLACE**

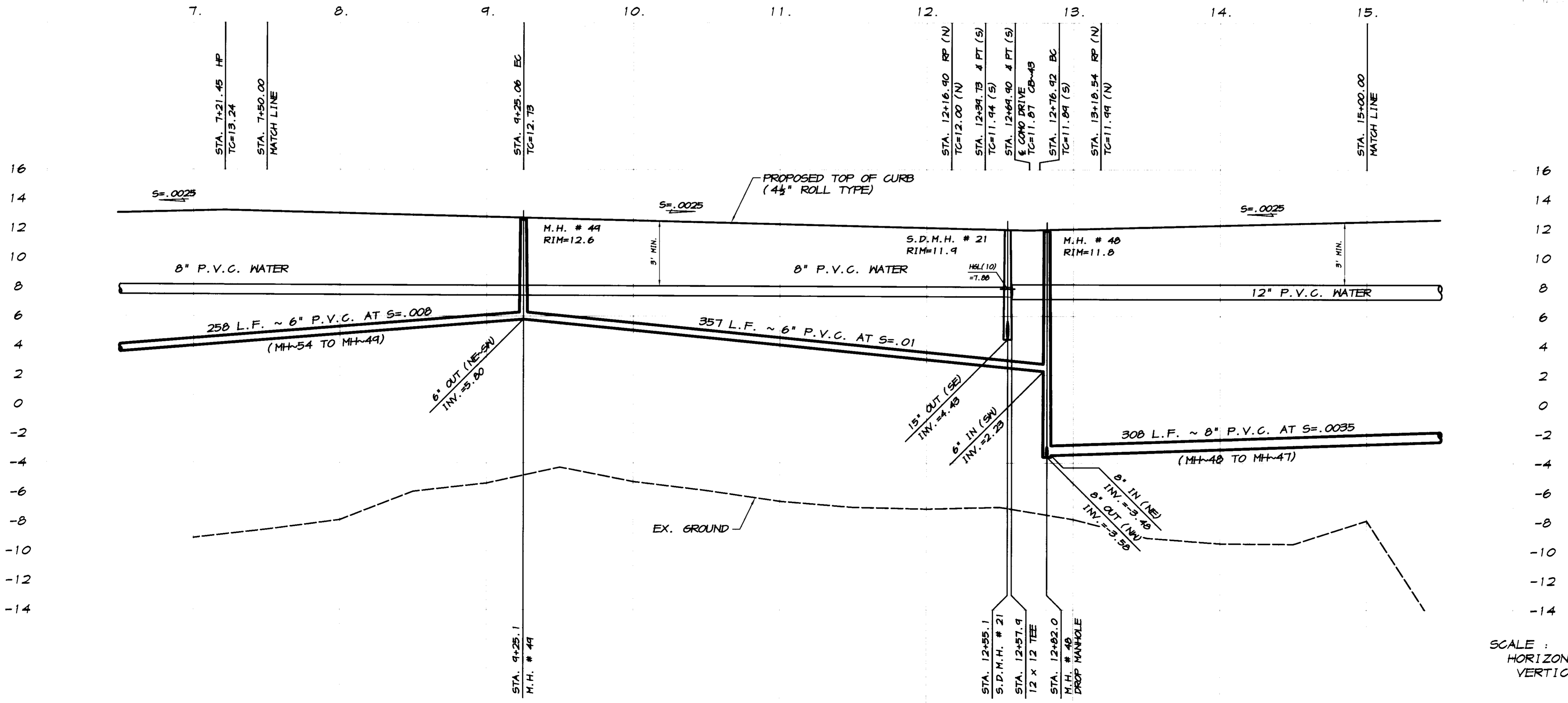
**CHIAYARI WAY**

SCALE: 1"=40'

SCALE: 1"=40'

**RECORD DRAWING**

Contract: *R Canal*  
 No Change  
 Date: 3/12/2008



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY: \_\_\_\_\_  
 REVISION DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
 STA. 7+50 TO STA. 15+00  
**CALESETTA PLACE & CHIAYARI WAY**  
 OAKWOOD LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY, CALIFORNIA

**R Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN D. CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

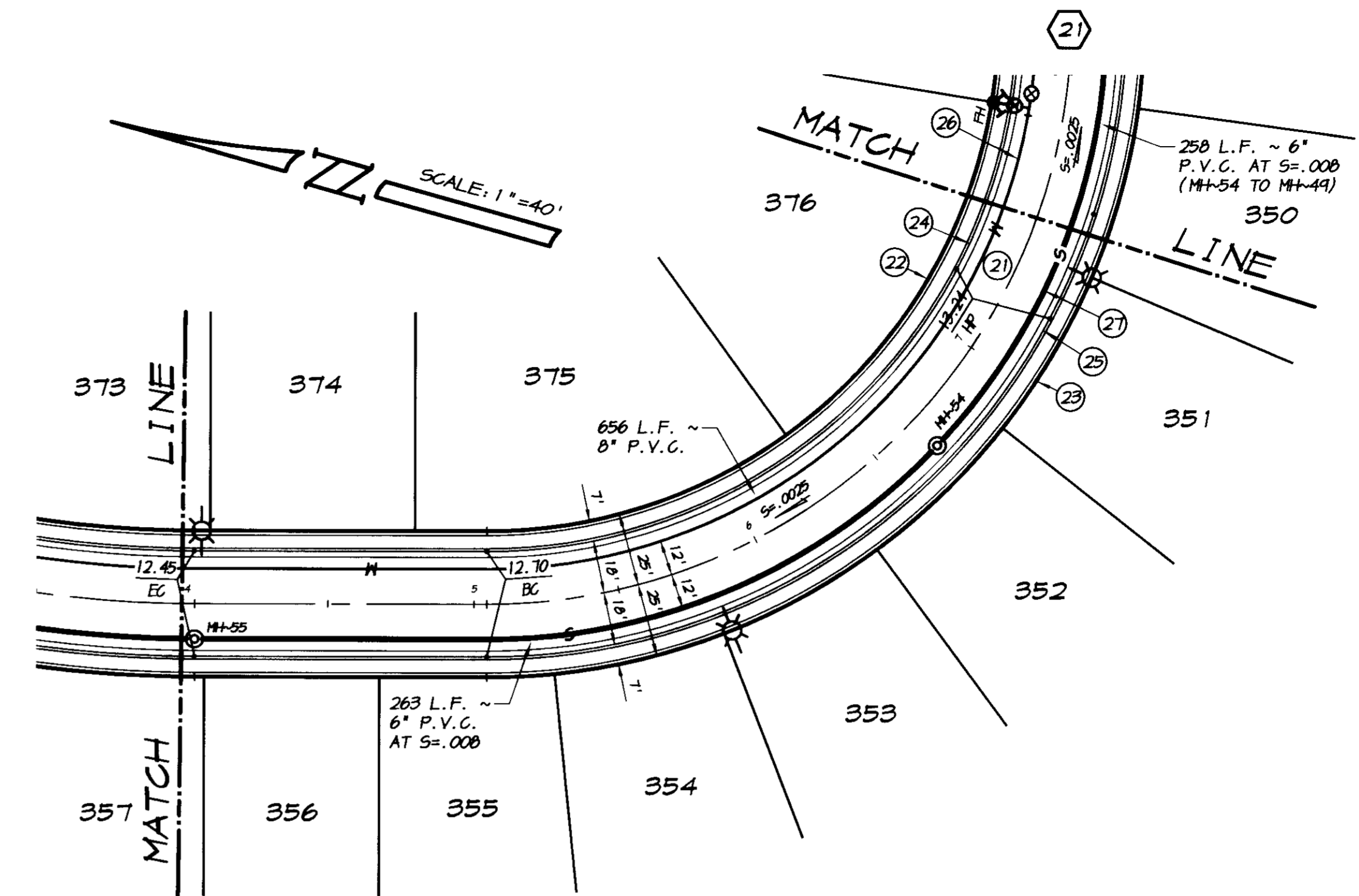
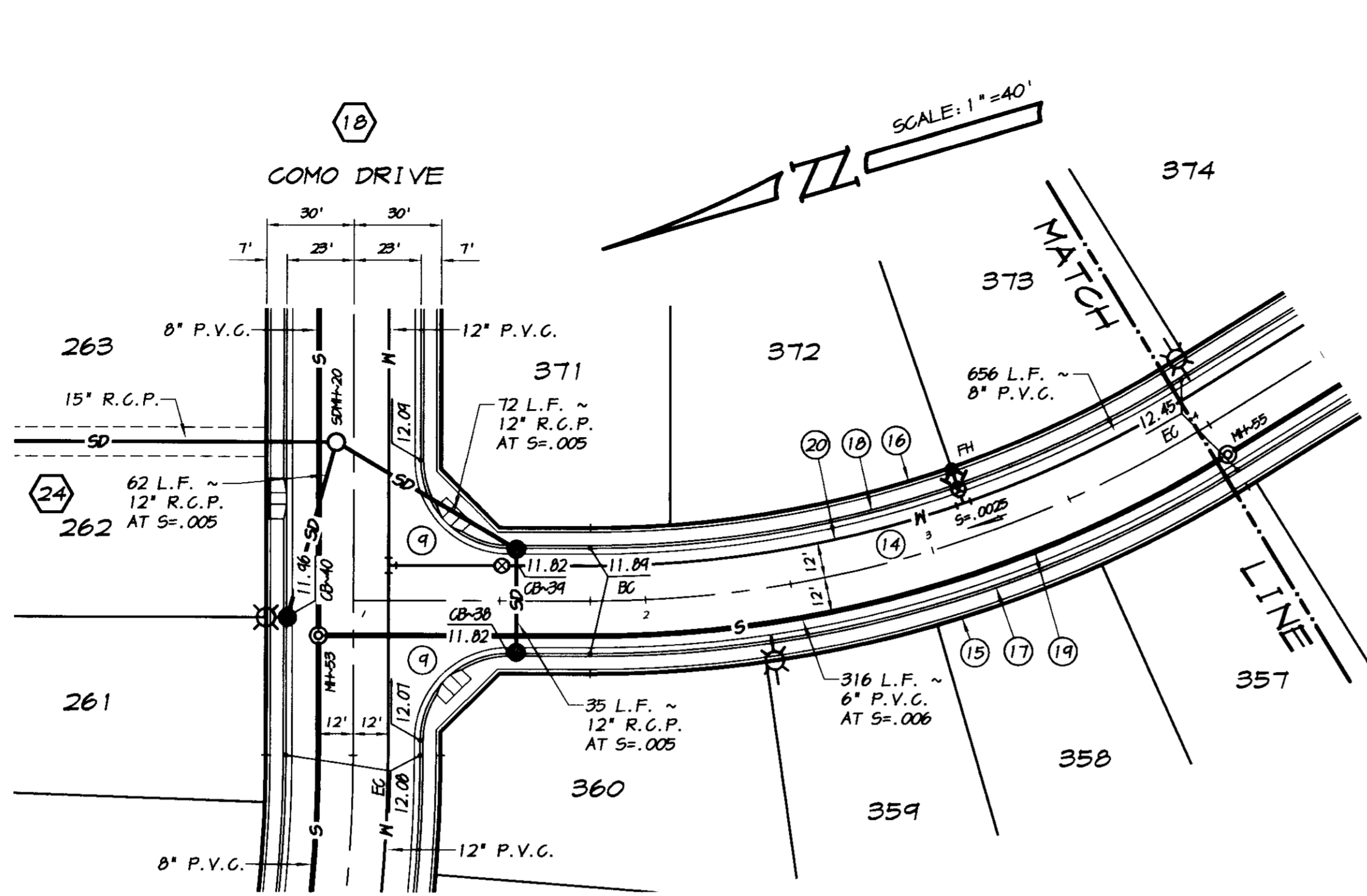
DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2008  
 SCALE: NOTED  
 DWG: 296H-SLCCPP  
 CHECKED: KM  
 JOB #: 296H-04

SHEET **21** OF 30

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(1)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
(2)	31°54'14"	400.00'	223.31'	220.42'	114.65'	CL
(3)	31°54'14"	425.00'	231.27'	234.20'	121.82'	FL
(4)	31°54'14"	410.00'	233.36'	230.34'	119.81'	FL
(5)	31°54'14"	302.00'	213.26'	210.50'	104.44'	FL
(6)	31°34'52"	412.00'	227.09'	224.23'	116.51'	S
(7)	31°54'14"	300.00'	216.61'	213.81'	111.21'	M
(8)	120°31'14"	200.00'	420.70'	347.32'	350.07'	CL
(9)	120°31'14"	175.00'	360.11'	303.90'	306.31'	FL
(10)	120°31'14"	225.00'	473.20'	340.73'	343.83'	FL
(11)	120°31'14"	182.00'	382.83'	318.06'	318.57'	FL
(12)	120°31'14"	218.00'	450.56'	370.57'	381.50'	FL
(13)	120°31'14"	180.00'	345.45'	326.40'	324.07'	M
(14)	119°43'53"	212.00'	443.02'	366.70'	365.22'	S

**CATCH BASIN DATA**

12" INV. AT C.B.-30 = 5.96  
 35 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.-39 = 5.78  
 12" INV. OUT AT C.B.-39 = 5.68  
 72 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.-20 = 5.32  
 12" INV. AT C.B.-40 = 7.00  
 62 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.-20 = 6.69

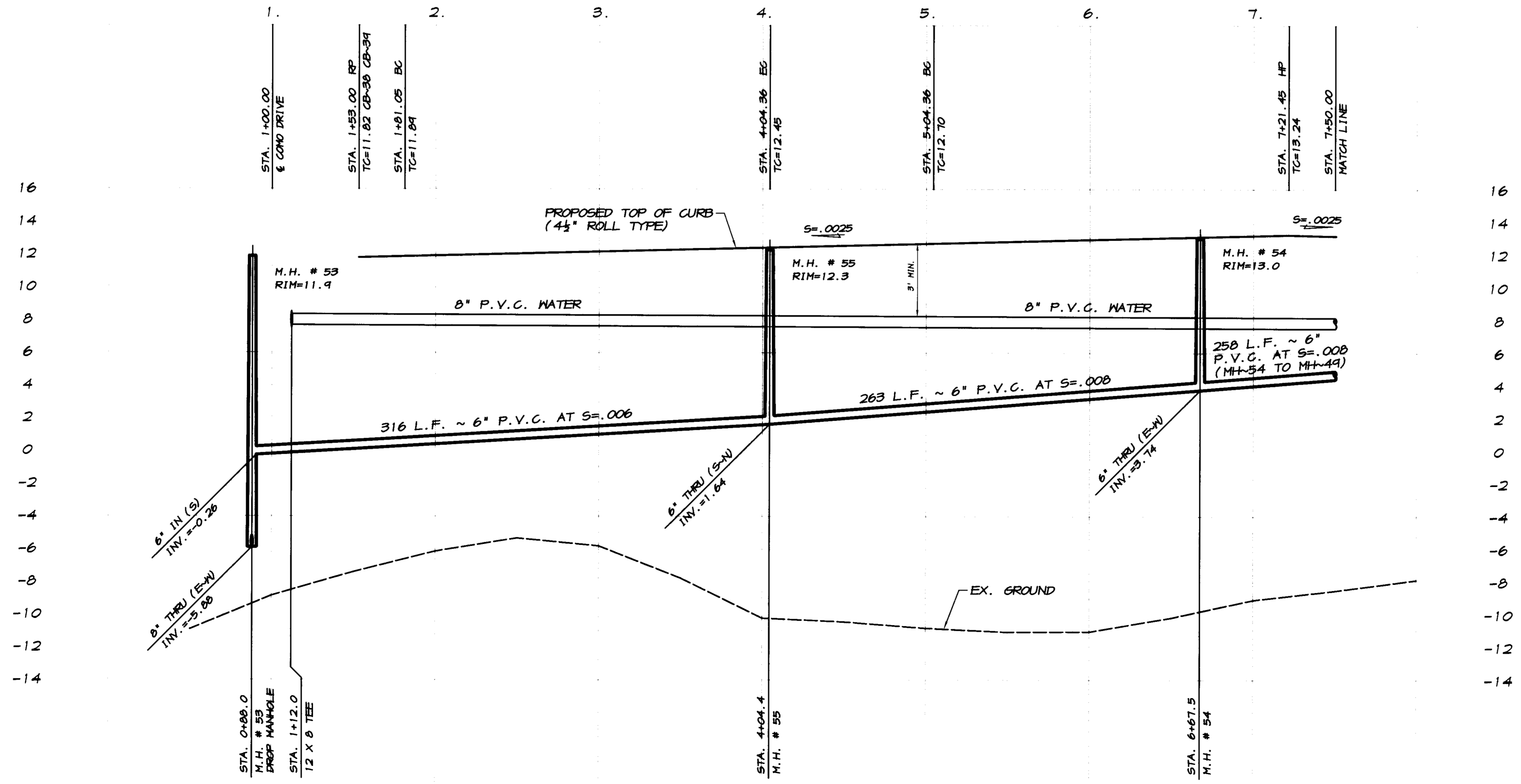


**CALESETTA PLACE**

SCALE: 1"=40'

**RECORD DRAWING**

Correction: *[Signature]*  
 Date: 7/12/2008



SCALE:  
 HORIZONTAL : 1"=40'  
 VERTICAL : 1"=4'

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying · Design · Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

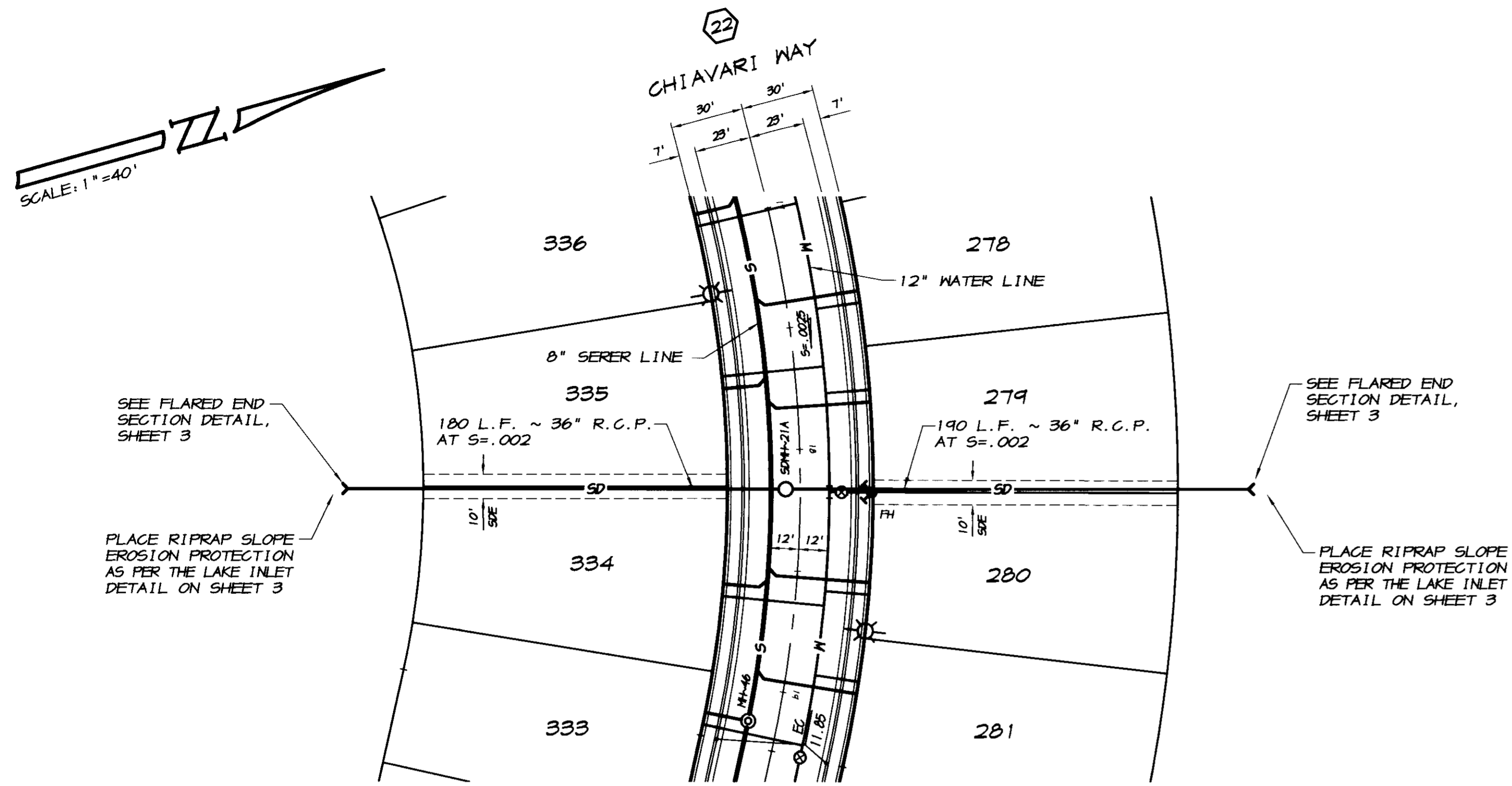


**PLAN AND PROFILE**  
 STA. 1+00 TO STA. 7+50  
**CALESETTA PLACE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY, CALIFORNIA

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

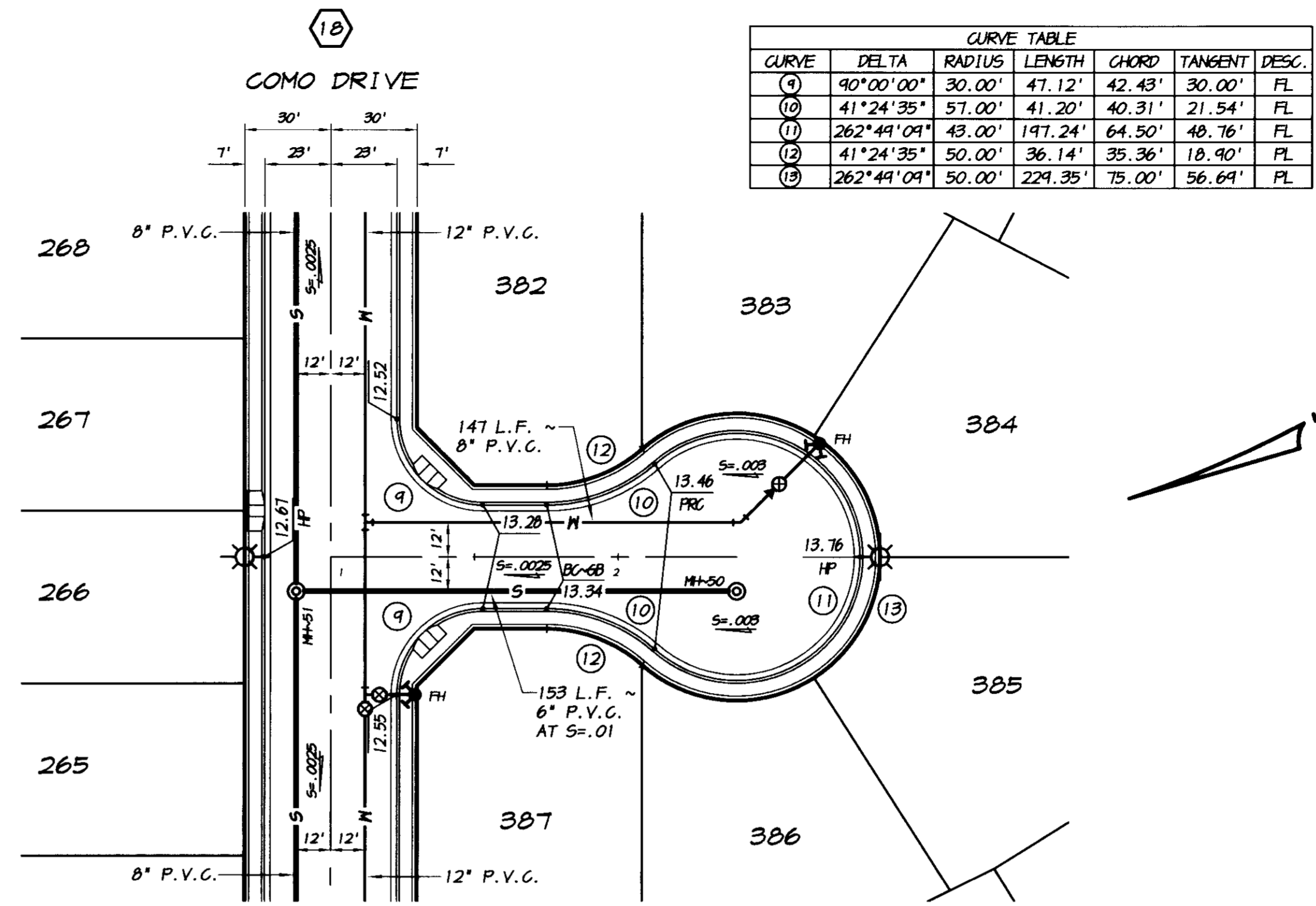
DRAWN BY: J. S. H.  
 DATE: SEPT. 21, 2008  
 SCALE: NOTED  
 DWG: 246H-SLCP  
 CHECKED: KN  
 JOB #: 246H-04

SHEET  
**20**  
 OF  
**30**



**LAKE CONNECTOR**

SCALE: 1"=40'



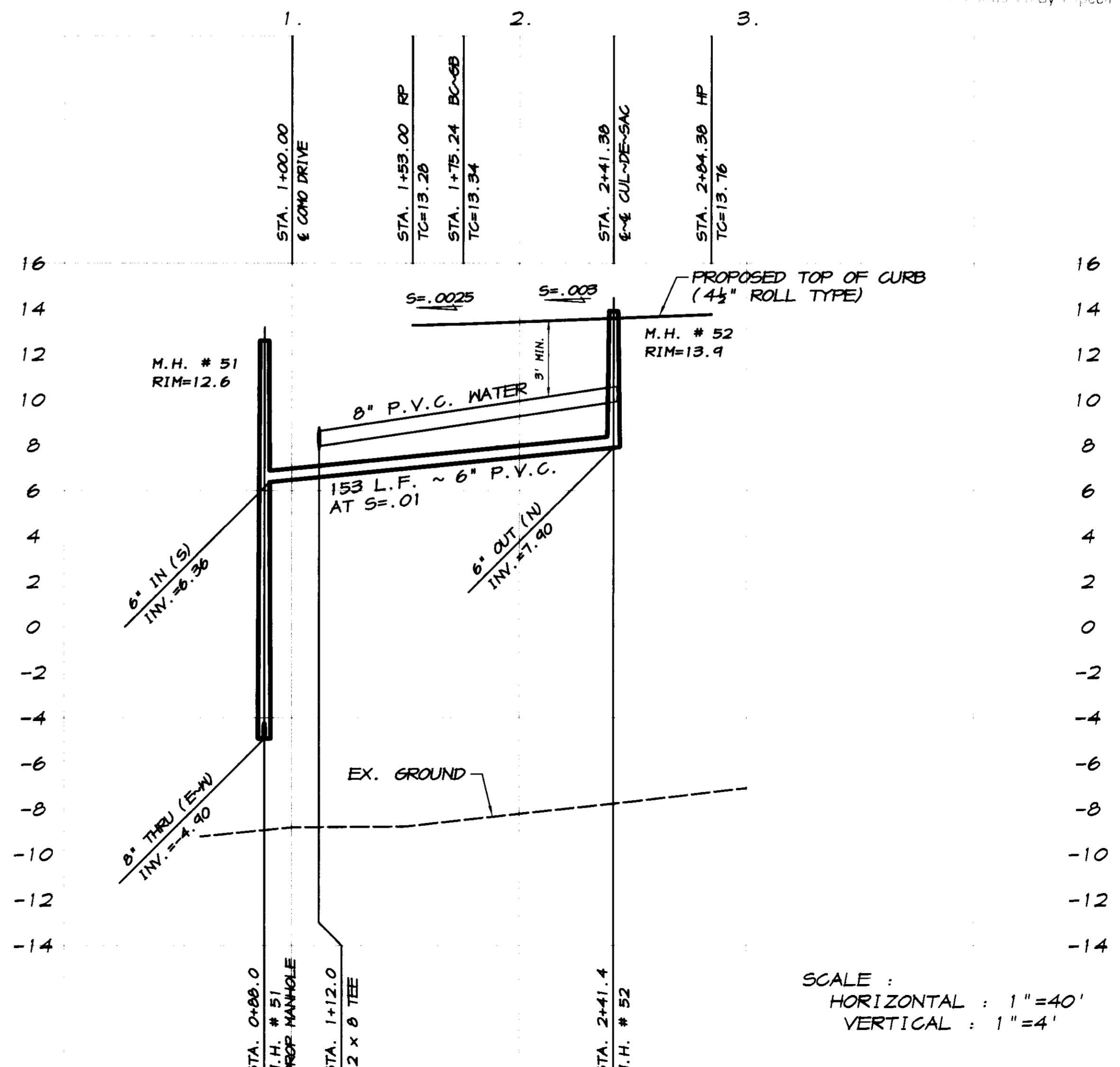
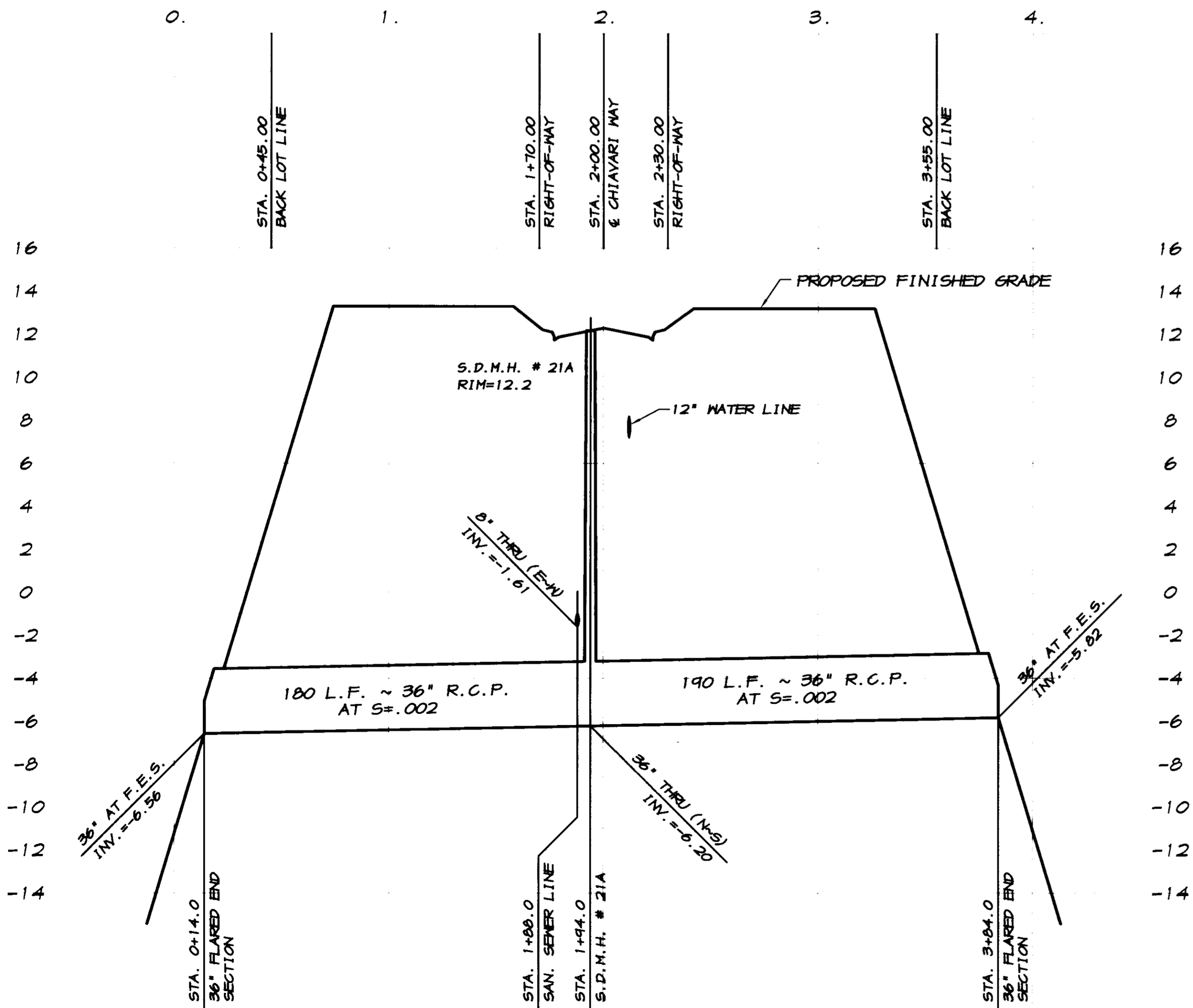
**VERNAZZA COURT**

SCALE: 1"=40'

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(4)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
(9)	41°24'35"	57.00'	41.20'	40.31'	21.54'	FL
(11)	262°44'09"	43.00'	197.24'	64.50'	48.76'	FL
(12)	41°24'35"	50.00'	36.14'	35.36'	18.90'	PL
(13)	262°44'09"	50.00'	224.35'	75.00'	56.64'	PL

**RECORD DRAWING**

Corrections by: BC  
 No Change by: BC  
 Date: 7/12/2008  
 The Engineer, Being the Designer, I should Verify  
 that I am not by Violating the Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY: \_\_\_\_\_

REVISION DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying · Design · Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
**VERNAZZA COURT**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

**BC**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. #9026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: SEPT. 21, 2008  
 SCALE: 1"=40'  
 DWG: 296H-RCPP  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **19** OF **30**

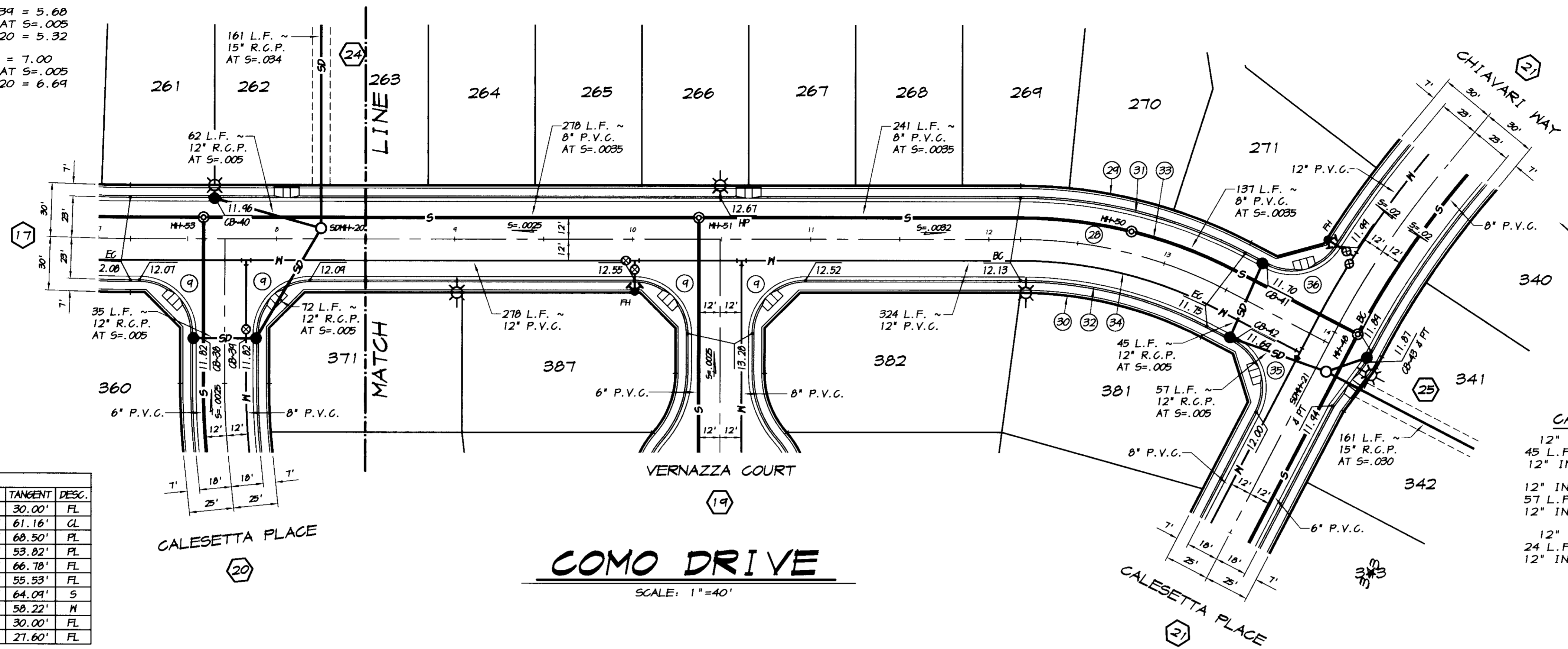
**CATCH BASIN DATA**

12" INV. AT C.B.~38 = 5.96  
 35 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~39 = 5.78  
 12" INV. OUT AT C.B.~39 = 5.68  
 72 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~20 = 5.32  
 12" INV. AT C.B.~40 = 7.00  
 62 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~20 = 6.64

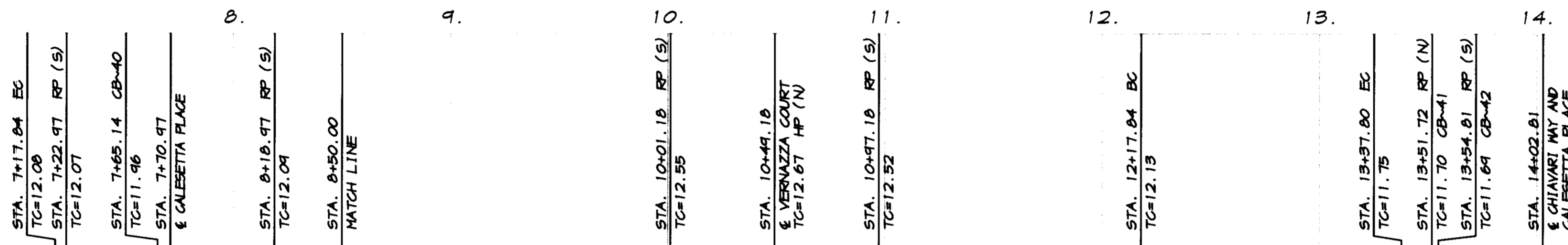
**CATCH BASIN DATA**

12" INV. AT C.B.~41 = 5.30  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~42 = 5.07  
 12" INV. OUT AT C.B.~42 = 4.97  
 57 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~21 = 4.68  
 12" INV. AT C.B.~43 = 7.40  
 24 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~21 = 7.28

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
1	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
2	27°24'32"	250.00'	119.46'	118.81'	61.16'	CL
3	27°24'32"	280.00'	134.35'	133.07'	68.50'	FL
4	27°24'32"	220.00'	105.56'	104.55'	53.82'	FL
5	27°24'32"	213.00'	130.44'	129.74'	66.78'	FL
6	27°24'32"	227.00'	108.42'	107.88'	55.53'	FL
7	27°24'32"	262.00'	125.72'	124.51'	64.09'	S
8	27°24'32"	238.00'	114.20'	113.11'	58.22'	N
9	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
10	85°13'44"	30.00'	44.63'	40.62'	27.60'	FL



**RECORD DRAWING**  
 Corrections By: RD Carrel  
 No Changes By: RD Carrel  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify  
 All Information By Inspecting The Site Of Work



16  
14  
12  
10  
8  
6  
4  
2  
0  
-2  
-4  
-6  
-8  
-10  
-12  
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16  
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-2  
-4  
-6  
-8  
-10  
-12  
-14

SCALE:  
 HORIZONTAL : 1"=40'  
 VERTICAL : 1"=4'

BY: \_\_\_\_\_  
 REVISION DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95336  
 PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
 STA. 9+50 TO STA. 14+09  
**COMO DRIVE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY CALIFORNIA

**RD Carrel**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

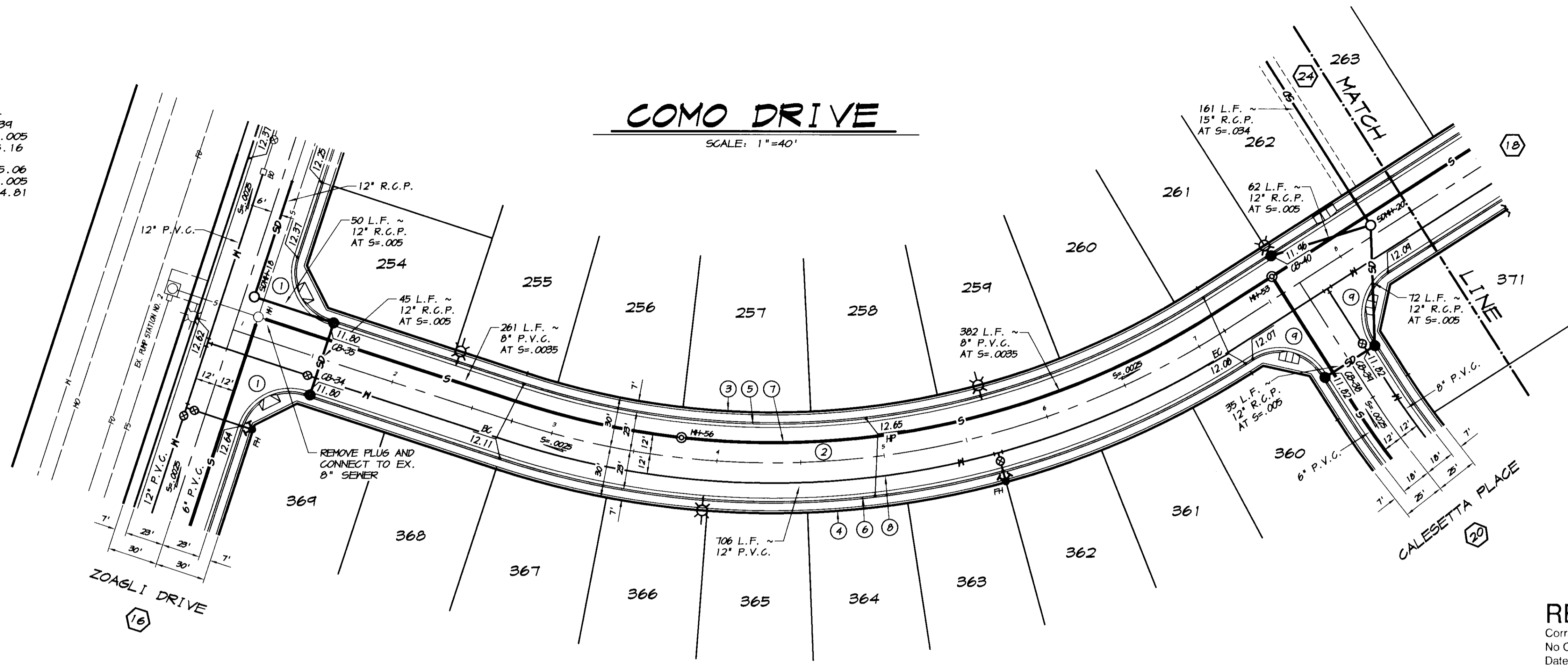
DRAWN BY: J.S.H.  
 DATE: SEPT. 21, 2008  
 SCALE: 1"=40'  
 DWG: 296H-NLCPP  
 CHECKED: KJN  
 JOB #: 296H-04  
 SHEET **18**  
 OF 30

**CATCH BASIN DATA**  
 12" INV. AT C.B.~34 = 5.34  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~35 = 5.16  
 12" INV. OUT AT C.B.~35 = 5.06  
 50 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~18 = 4.81

**CATCH BASIN DATA**  
 12" INV. AT C.B.~38 = 5.96  
 35 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~39 = 5.78  
 12" INV. OUT AT C.B.~39 = 5.68  
 72 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~20 = 5.32  
 12" INV. AT C.B.~40 = 7.00  
 62 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~20 = 6.64

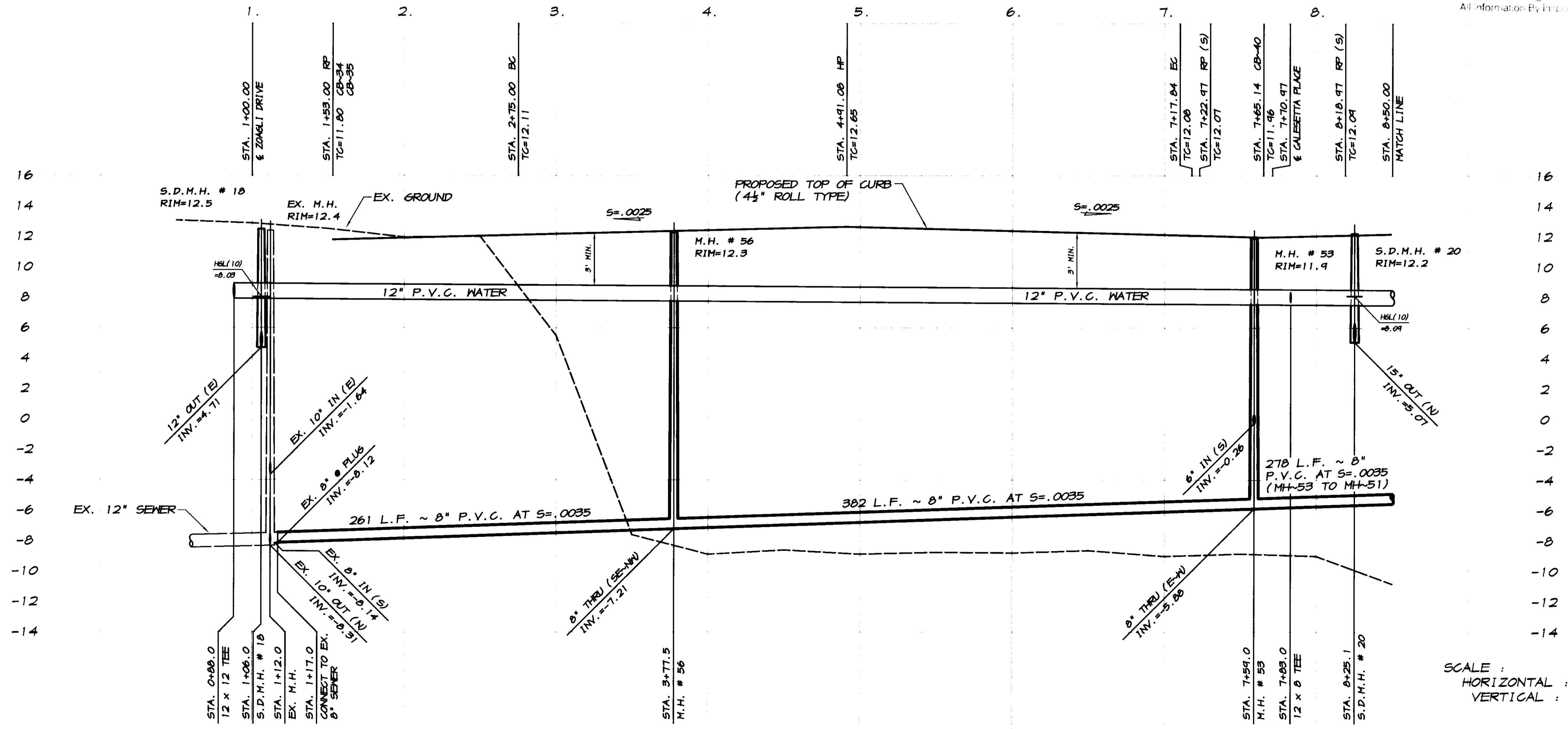
# COMO DRIVE

SCALE: 1"=40'



CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(1)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
(2)	50°44'46"	500.00'	442.04'	420.51'	237.13'	CL
(3)	50°44'46"	470.00'	416.27'	402.80'	222.90'	PL
(4)	50°44'46"	530.00'	469.41'	454.22'	251.36'	PL
(5)	50°44'46"	471.00'	422.47'	400.80'	226.22'	FL
(6)	50°44'46"	523.00'	463.21'	440.22'	248.04'	FL
(7)	50°44'46"	488.00'	432.22'	410.23'	231.44'	S
(8)	50°44'46"	512.00'	453.47'	430.80'	242.82'	M
(9)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL

**RECORD DRAWING**  
 Corrected by: *[Signature]*  
 No Changes by: *[Signature]*  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All Information By Inspecting The Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

SU 4030

BY	
DATE	
REVISION	
DESCRIPTION	

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY, CALIFORNIA

PLAN AND PROFILE  
 STA. 1+00 TO STA. 8+50  
**COMO DRIVE**

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 71226

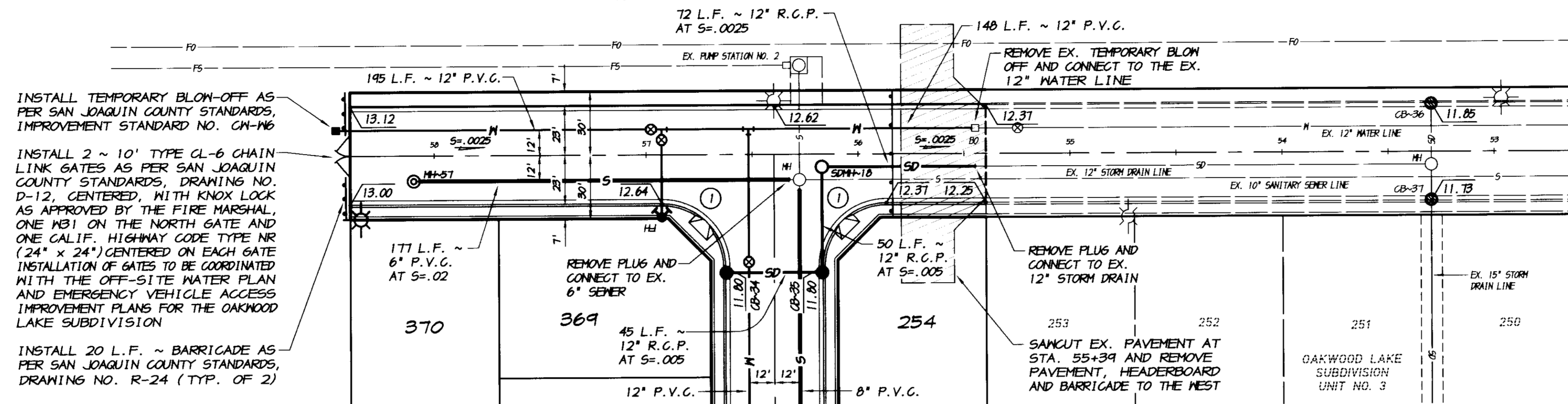
REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-MLCPP  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **17**  
 OF **30**

SU 41031

CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT DESC.
(1)	90°00'00"	30.00'	47.12'	42.43'	30.00' FL



INSTALL TEMPORARY BLOW-OFF AS PER SAN JOAQUIN COUNTY STANDARDS, IMPROVEMENT STANDARD NO. CM-16

INSTALL 2 ~ 10' TYPE CL-6 CHAIN LINK GATES AS PER SAN JOAQUIN COUNTY STANDARDS, DRAWING NO. D-12, CENTERED, WITH KNOX LOCK AS APPROVED BY THE FIRE MARSHAL, ONE MBI ON THE NORTH GATE AND ONE CALIF. HIGHWAY CODE TYPE NR (24" x 24") CENTERED ON EACH GATE. INSTALLATION OF GATES TO BE COORDINATED WITH THE OFF-SITE WATER PLAN AND EMERGENCY VEHICLE ACCESS IMPROVEMENT PLANS FOR THE OAKWOOD LAKE SUBDIVISION

INSTALL 20 L.F. ~ BARRICADE AS PER SAN JOAQUIN COUNTY STANDARDS, DRAWING NO. R-24 (TYP. OF 2)

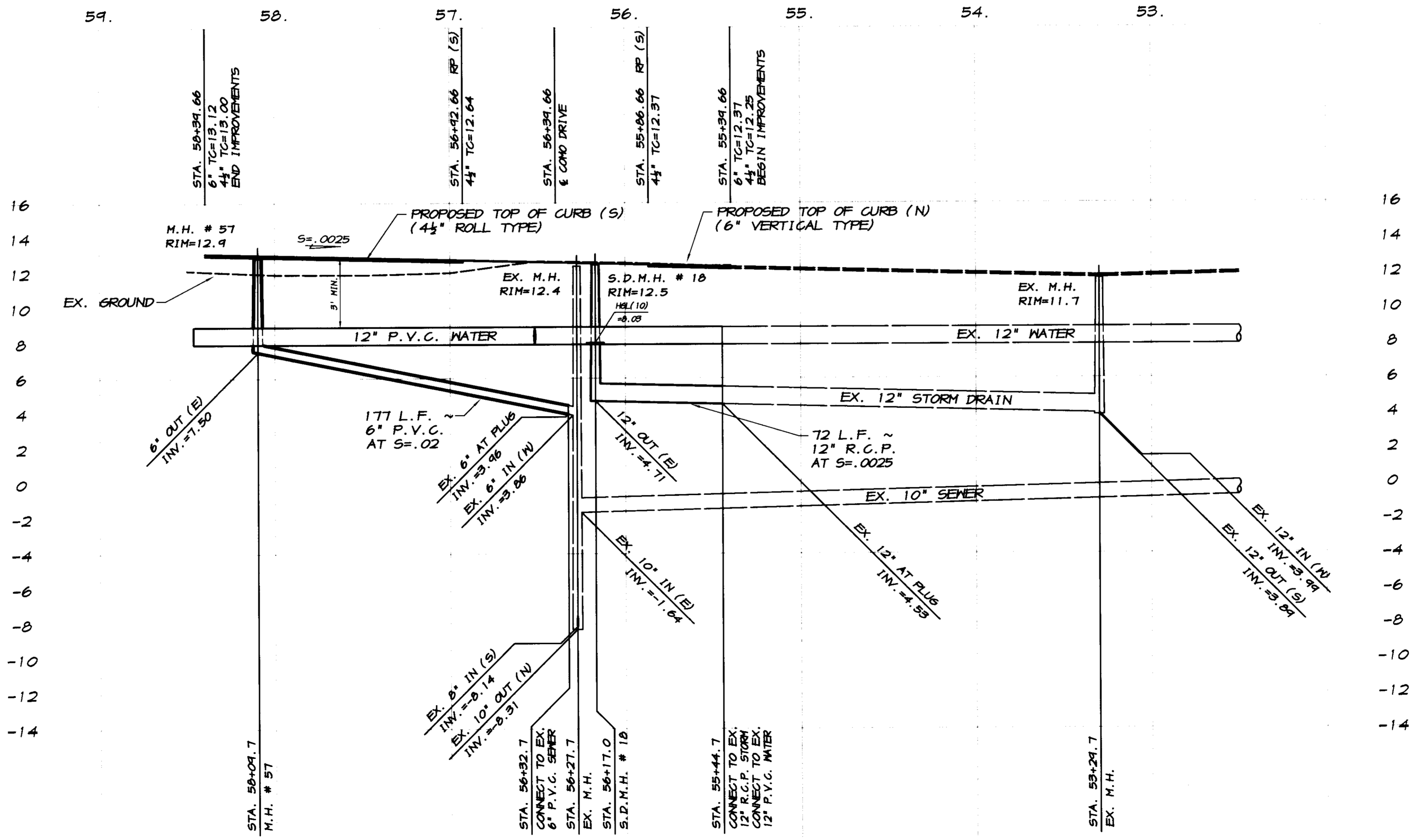
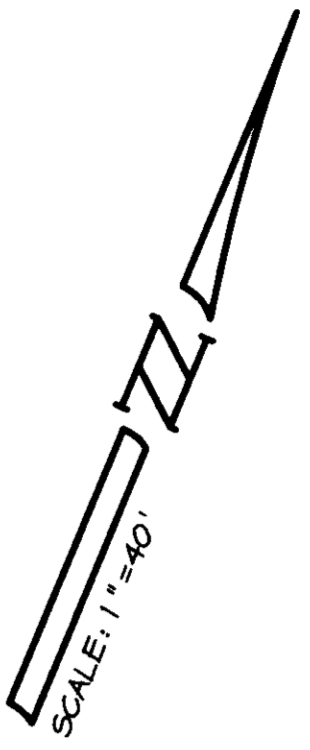
**CATCH BASIN DATA**

12" INV. AT C.B.~34 = 5.39  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~35 = 5.16

12" INV. OUT AT C.B.~35 = 5.06  
 50 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~18 = 4.81

**ZOAGLI DRIVE**

SCALE: 1"=40'



RECORD DRAWING

Checked by: *[Signature]*  
 Date: 8/12/2008

Any Errors in This Drawing Should Be Verified by the Client Before Starting Work. All Information by Impacting The State Of Work

SCALE :  
 HORIZONTAL : 1"=40'  
 VERTICAL : 1"=4'

BY	
DATE	
DESCRIPTION	
REVISION	

ASSOCIATED ENGINEERING, INC.  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

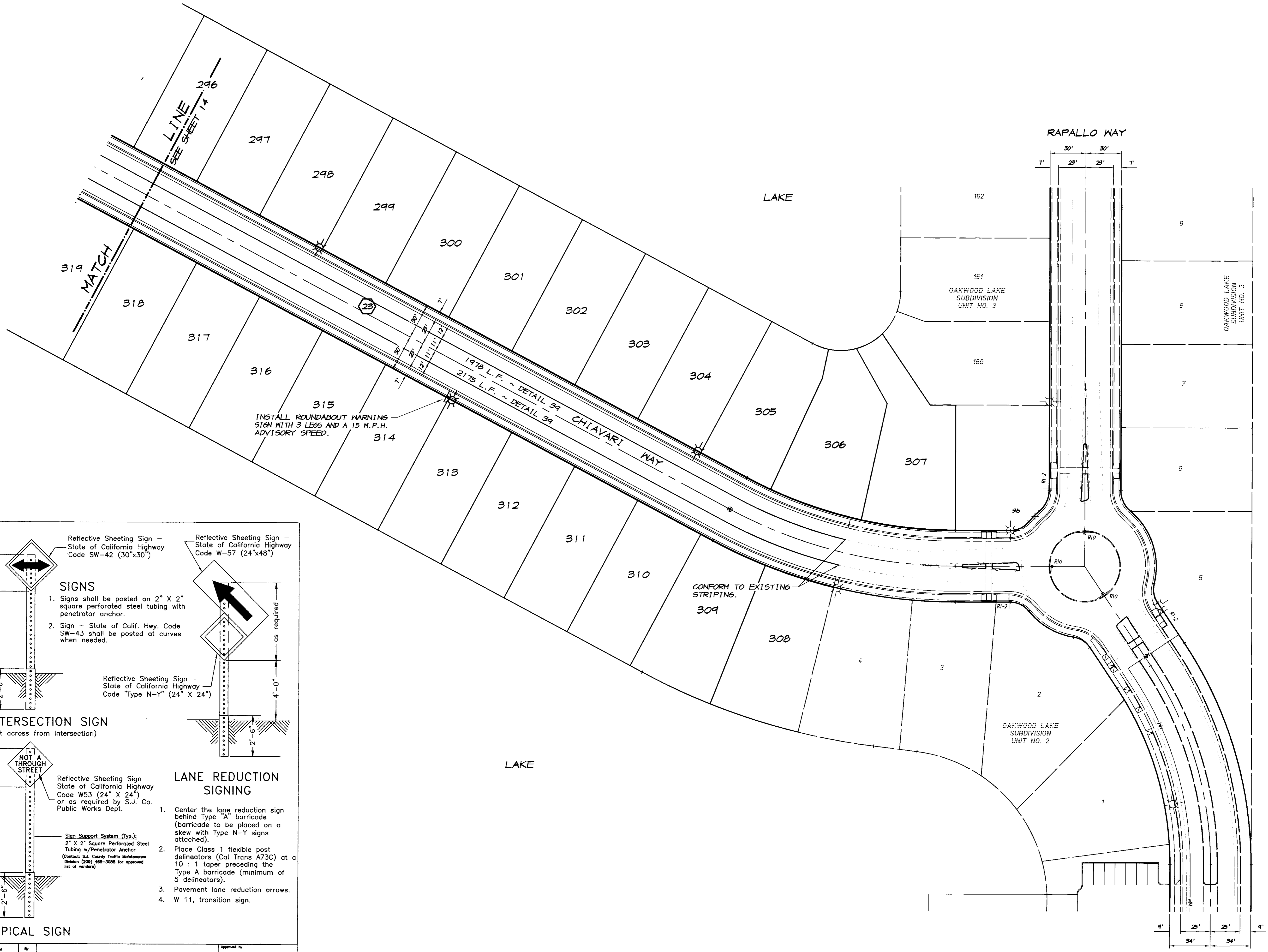
**PLAN AND PROFILE**  
 STA. 55+39.66 TO STA. 58+39.66  
**ZOAGLI DRIVE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2008  
 SCALE: NOTED  
 DWG: 296H-NLCP  
 CHECKED: KM  
 JOB #: 296H-04

SHEET **16** OF 30



**TRAFFIC SIGNS**

**SIGNS**

- Signs shall be posted on 2" X 2" square perforated steel tubing with penetrator anchor.
- Sign - State of Calif. Hwy. Code SW-43 shall be posted at curves when needed.

**T INTERSECTION SIGN**  
(post across from intersection)

**LANE REDUCTION SIGNING**

- Center the lane reduction sign behind Type "A" barricade (barricade to be placed on a skew with Type N-Y signs attached).
- Place Class 1 flexible post delineators (Cal Trans A73C) at a 10 : 1 taper preceding the Type A barricade (minimum of 5 delineators).
- Pavement lane reduction arrows.
- W 11, transition sign.

**TYPICAL SIGN**

No.	Revised	By
1	November 2003	DBS
2	February 2004	DBS

Drawn by: JLD  
Checked by:  
Scale: NONE

Approved by: \_\_\_\_\_  
Director of Public Works

Date: JUNE 1997  
Drawing No. R - 26

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
Surveying - Design - Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875

**STRIPING AND SIGNAGE PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
SAN JOAQUIN COUNTY CALIFORNIA

**RYAN CARRIL**  
RYAN CARRIL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. #9028  
DAVE SKIDMORE, L.S. 7126

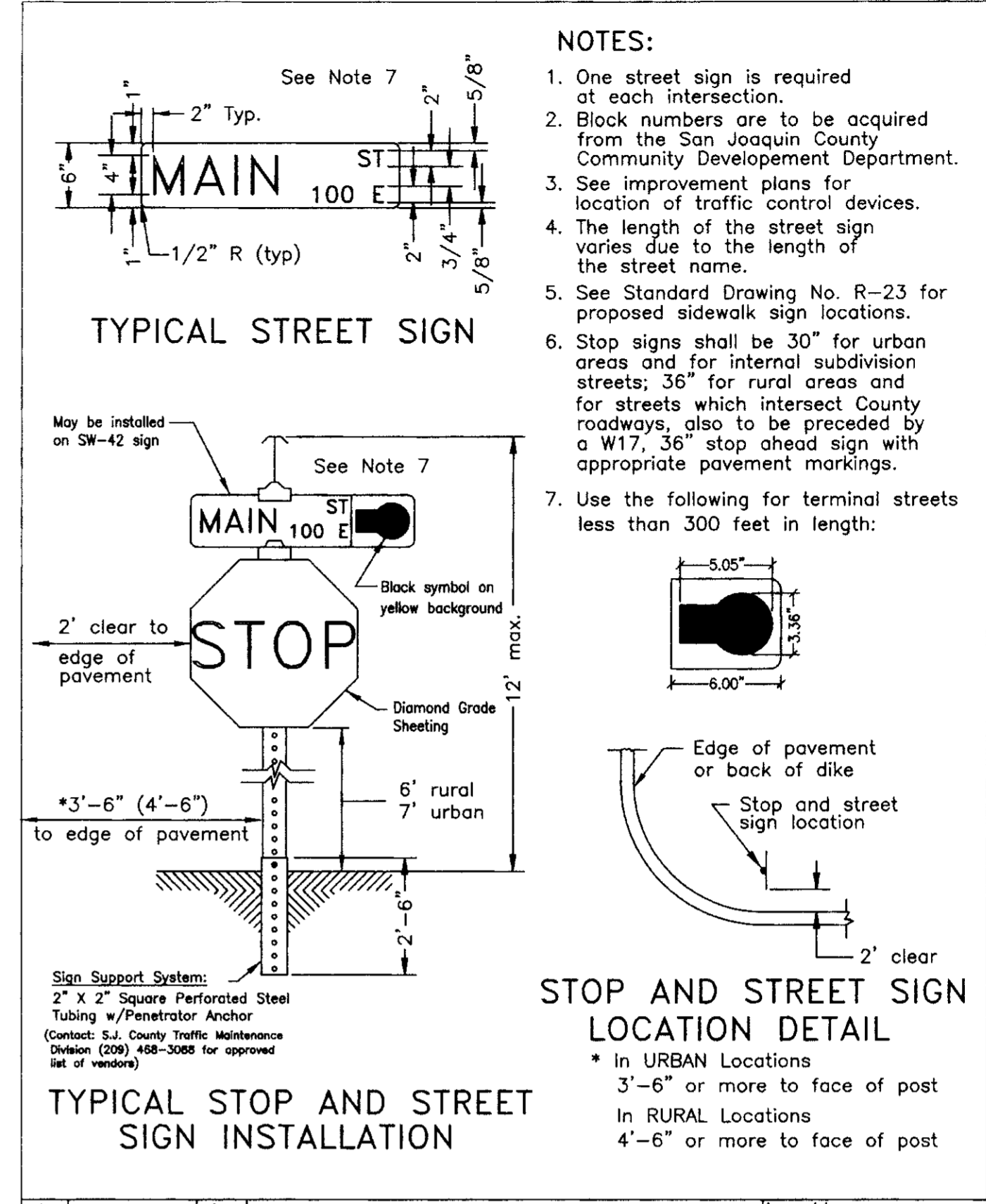
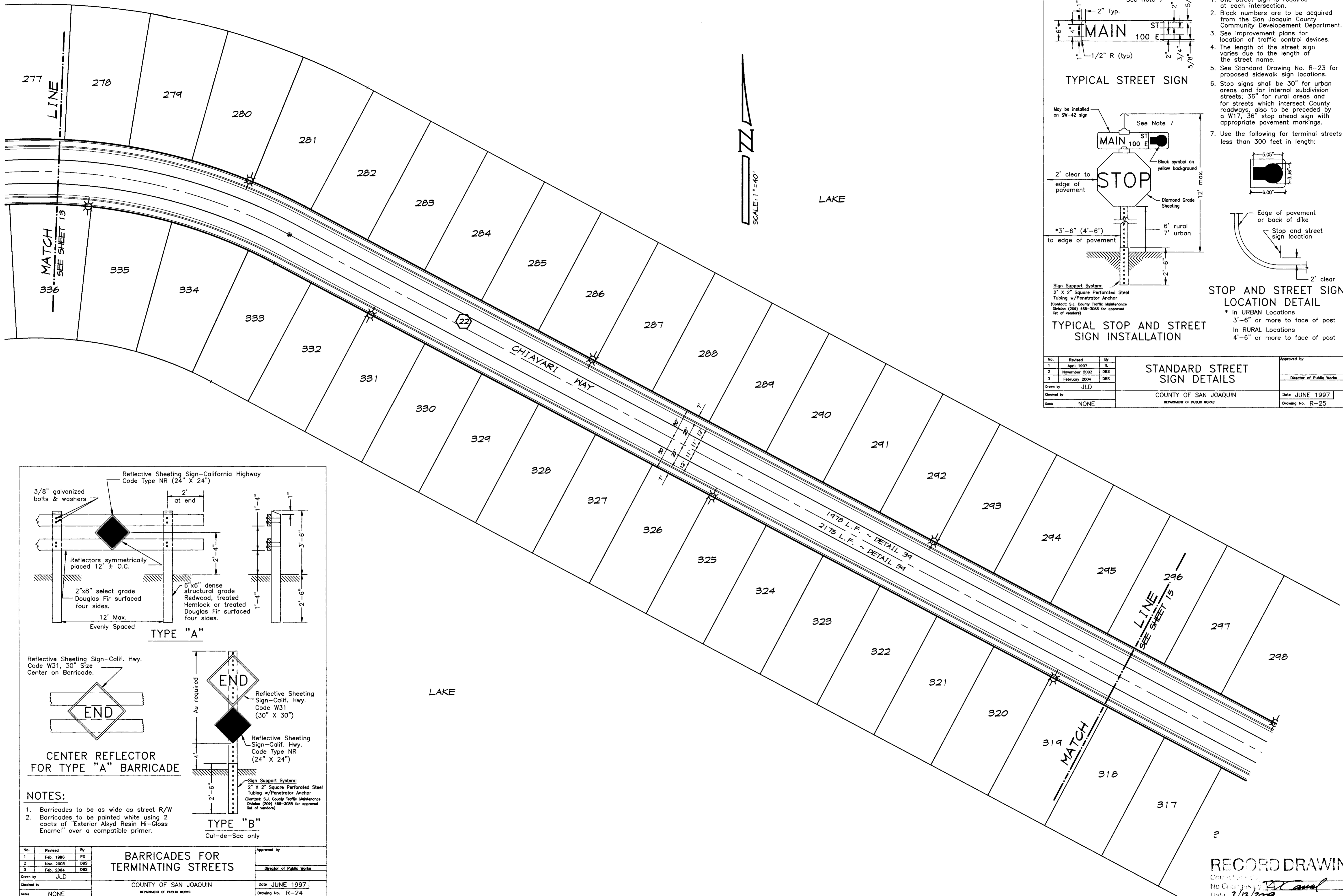
REGISTERED PROFESSIONAL ENGINEER  
No. 61619  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
DATE: SEPT. 27, 2008  
SCALE: 1"=40'  
DWG: 246H-STRIPE  
CHECKED: KM  
JOB #: 246H-04

SHEET **15** OF **30**

**RECORD DRAWING**  
Date: 2/12/2008  
Any Person using this Drawing without the written consent of the Engineer is liable for all consequences.





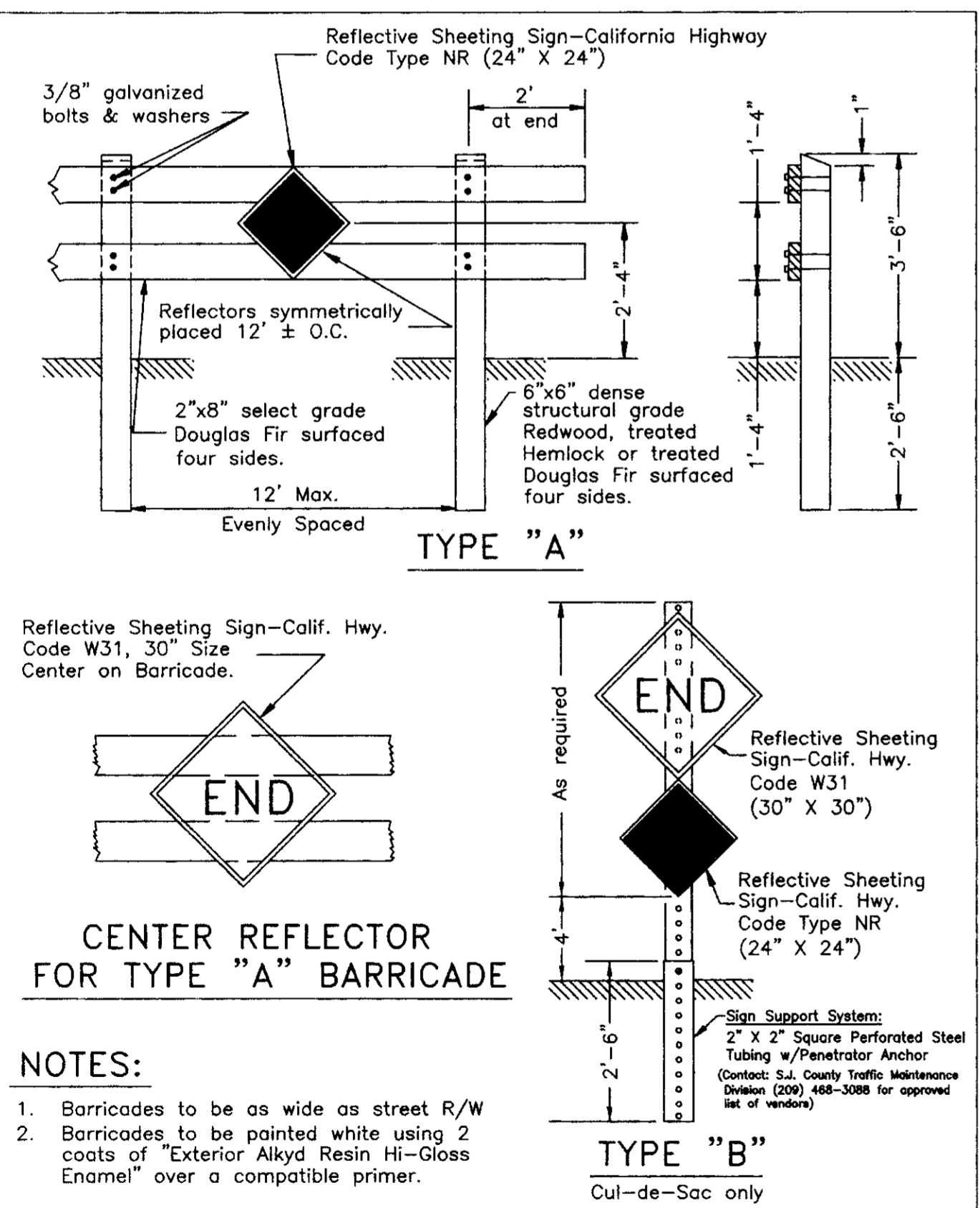
- NOTES:**
- One street sign is required at each intersection.
  - Block numbers are to be acquired from the San Joaquin County Community Development Department.
  - See improvement plans for location of traffic control devices.
  - The length of the street sign varies due to the length of the street name.
  - See Standard Drawing No. R-23 for proposed sidewalk sign locations.
  - Stop signs shall be 30" for urban areas and for internal subdivision streets; 36" for rural areas and for streets which intersect County roadways, also to be preceded by a W17, 36" stop ahead sign with appropriate pavement markings.
  - Use the following for terminal streets less than 300 feet in length:

No.	Revised	By	Approved by
1	April 1997	TL	
2	November 2003	DBS	Director of Public Works
3	February 2004	DBS	

Drawn by: JLD  
Checked by: JLD  
Scale: NONE

STANDARD STREET SIGN DETAILS  
COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

Date: JUNE 1997  
Drawing No. R-25



- NOTES:**
- Barricades to be as wide as street R/W
  - Barricades to be painted white using 2 coats of Exterior Alkyd Resin HI-Gloss Enamel over a compatible primer.

No.	Revised	By	Approved by
1	Feb. 1995	PD	
2	Nov. 2003	DBS	Director of Public Works
3	Feb. 2004	DBS	

Drawn by: JLD  
Checked by: JLD  
Scale: NONE

**BARRICADES FOR TERMINATING STREETS**  
COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

Date: JUNE 1997  
Drawing No. R-24

BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_

**ASSOCIATED ENGINEERING, INC.**  
Surveying • Design • Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875

**STRIPING AND SIGNAGE PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 3470

RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
FRANK CARREL  
No. 61619  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
DATE: SEPT. 27, 2008  
SCALE: 1"=40'  
DWG: 246H-STRIPE  
CHECKED: KN  
JOB #: 246H-04

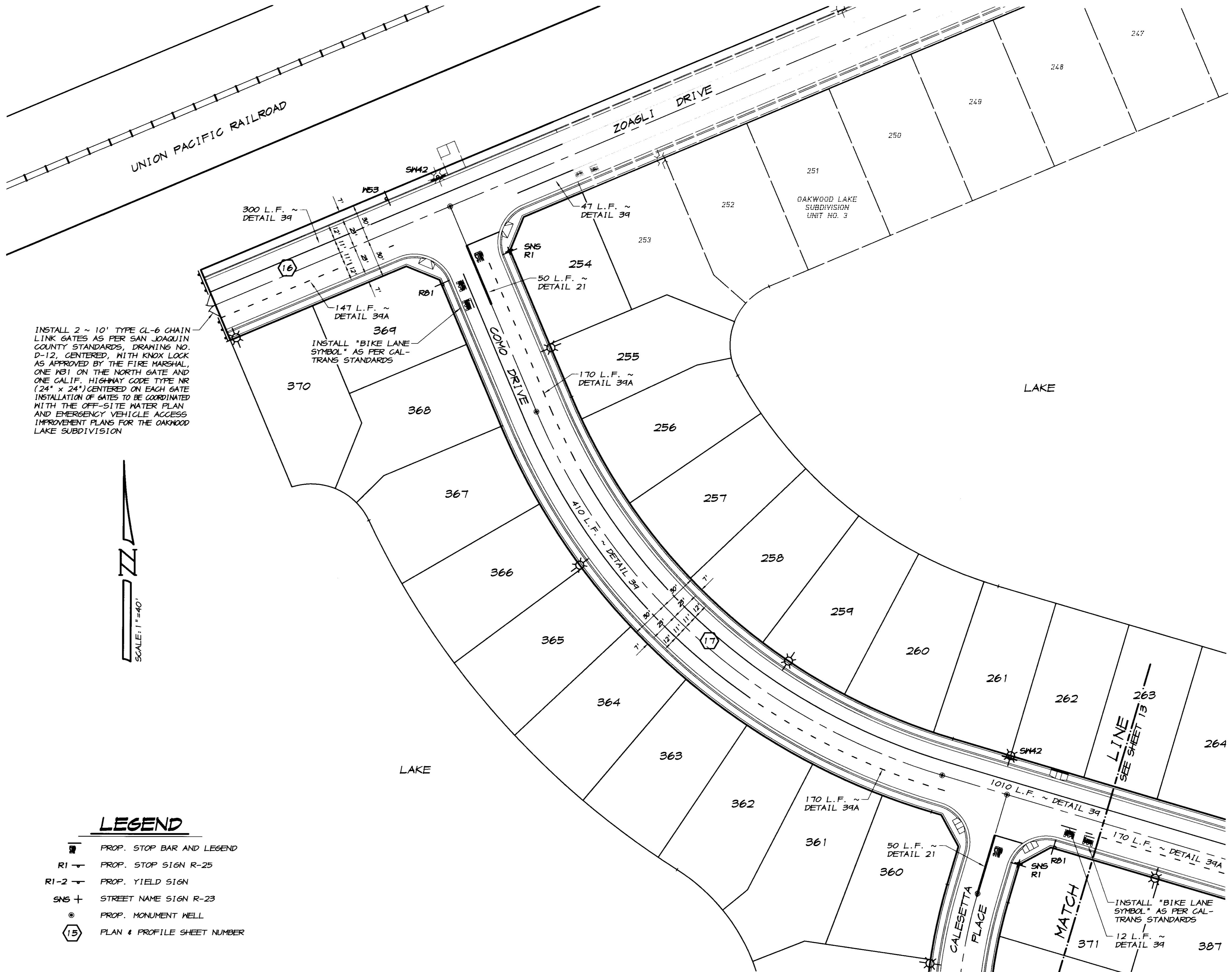
**RECORD DRAWING**  
No. 61619  
Date: 3/12/2008  
Any Person Using This Drawing Should Verify All Information by Consulting The Site Of Work

SHEET **14**  
OF **30**



# STRIPING NOTES

- ALL WORK TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.
- THE DETAILS REFERRED TO ON THIS PLAN ARE THOSE AS SHOWN IN THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, TRAFFIC MANUAL, CHAPTER 6, "MARKINGS".
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING PAVEMENT MARKINGS THAT WOULD CONFLICT WITH EXISTING TRAFFIC PATTERNS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY STRIPING THAT MAY BE REQUIRED.
- ALL LINES AND LEGENDS SHALL BE INSTALLED USING THERMOPLASTIC AND RAISED CERAMIC MARKERS UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL CONDUCT HIS WORK TO INTERFERE AS LITTLE AS POSSIBLE WITH THE PUBLIC TRAVEL, WHETHER VEHICULAR OR PEDESTRIAN. WHENEVER IT NECESSARY TO CROSS, OBSTRUCT, OR CLOSE ROADS, DRIVEWAYS AND WALKS, PUBLIC OR PRIVATE, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE AND SAFE DETOURS, OR TEMPORARY EXPEDIENTS FOR THE ACCOMMODATION OF PUBLIC AND PRIVATE TRAVEL AND SHALL GIVE REASONABLE NOTICE TO OWNERS OF PRIVATE DRIVES BEFORE INTERFERING WITH THEM. SUCH MAINTENANCE OF TRAFFIC WILL NOT BE REQUIRED WHEN THE CONTRACTOR HAS OBTAINED WRITTEN PERMISSION FROM THE OWNER AND TENANT OF PRIVATE PROPERTY OR FROM AUTHORITY HAVING JURISDICTION OVER PUBLIC PROPERTY INVOLVED, TO OBSTRUCT TRAFFIC AT THE DESIGNATED POINT.
- THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE STATE OF CALIFORNIA, MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE ZONES. ANY PROPOSED DEVIATION OR MODIFICATIONS TO THESE TRAFFIC CONTROL REQUIREMENTS SHALL BE SUBMITTED TO THE CITY, COUNTY OR STATE, WHICHEVER IS APPROPRIATE, FOR APPROVAL.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."
- ALL BARRICADES AND OBSTRUCTIONS SHALL BE ILLUMINATED WITH WARNING LIGHTS FROM SUNSET TO SUNRISE. MATERIAL STORAGE AND CONDUCT OF THE WORK ON OR ALONGSIDE PUBLIC STREETS AND HIGHWAYS SHALL CAUSE THE MINIMUM OBSTRUCTION AND INCONVENIENCE TO THE TRAVELING PUBLIC.
- ALL BARRICADES, SIGNS, LIGHTS AND OTHER PROTECTIVE DEVICES SHALL BE INSTALLED AND MAINTAINED IN CONFORMANCE WITH APPLICABLE STATUTORY REQUIREMENTS, AND WHERE WITHIN RAILROAD AND HIGHWAY RIGHT-OF-WAY, AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION THEREOVER.
- THE CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTIES AND UTILITIES WHEN PROSECUTION OF THE WORK MAY AFFECT THEM. WHEN IT IS NECESSARY TO DENY ACCESS TO PROPERTY, OR WHEN ANY UTILITY SERVICE CONNECTION MUST BE INTERRUPTED, THE CONTRACTOR SHALL GIVE NOTICES NOT LESS THAN FORTY-EIGHT HOURS IN ADVANCE TO ENABLE THE AFFECTED PERSONS TO PROVIDE FOR THEIR NEEDS. NOTICES SHALL CONFORM TO ANY APPLICABLE LOCAL ORDINANCES AND, WHETHER DELIVERED IN WRITING OR ORALLY, WILL INCLUDE APPROPRIATE INFORMATION CONCERNING THE INTERRUPTION AND INSTRUCTIONS ON HOW TO LIMIT THEIR INCONVENIENCE.
- UTILITIES AND OTHER CONCERNED AGENCIES SHALL BE CONTACTED AT LEAST FORTY-EIGHT HOURS PRIOR TO CUTTING OR CLOSING A STREET OR OTHER TRAFFIC AREA, EXCAVATING NEAR UNDERGROUND UTILITIES OR POLE LINES, OR PERFORMING WORK WHICH WILL AFFECT THEIR OPERATIONS. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT PH: (800) 221-2600 TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AREAS OF THE SITE USED BY HIM AND ALL SUBCONTRACTORS IN THE PERFORMANCE OF THEIR WORK. THE CONTRACTOR SHALL EXERT FULL CONTROL OVER ALL THE ACTIONS OF ALL EMPLOYEES AND OTHER PERSONS WITH RESPECT TO THE USE AND PRESERVATION OF PROPERTY AND FACILITIES, EXCEPT SUCH CONTROLS AS MAY BE SPECIFICALLY RESERVED TO THE OWNER OR OTHERS. THE CONTRACTOR HAS THE RIGHT TO EXCLUDE FROM THE SITE ALL PERSONS WHO HAVE NO PURPOSE RELATED TO THE WORK OR ITS INSPECTION, AND MAY REQUIRE ALL PERSONS ON THE SITE (EXCEPT OWNERS EMPLOYEES) TO OBSERVE THE SAME REGULATIONS AS HE REQUIRES OF HIS EMPLOYEES.



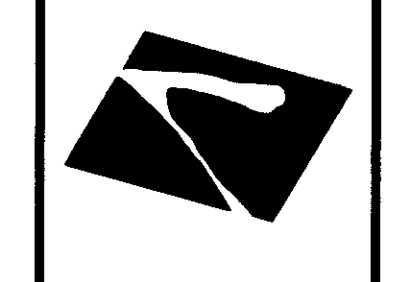
## LEGEND

- PROP. STOP BAR AND LEGEND
- PROP. STOP SIGN R-25
- PROP. YIELD SIGN
- PROP. STREET NAME SIGN R-23
- PROP. MONUMENT WELL
- PLAN & PROFILE SHEET NUMBER



BY	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



TRACT NO. 347B

**STRIPING AND SIGNAGE PLAN**

**OAKWOOD LAKE SUBDIVISION, UNIT 5**

SAN JOAQUIN COUNTY CALIFORNIA

**PCand**  
 RYAN CARRIL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

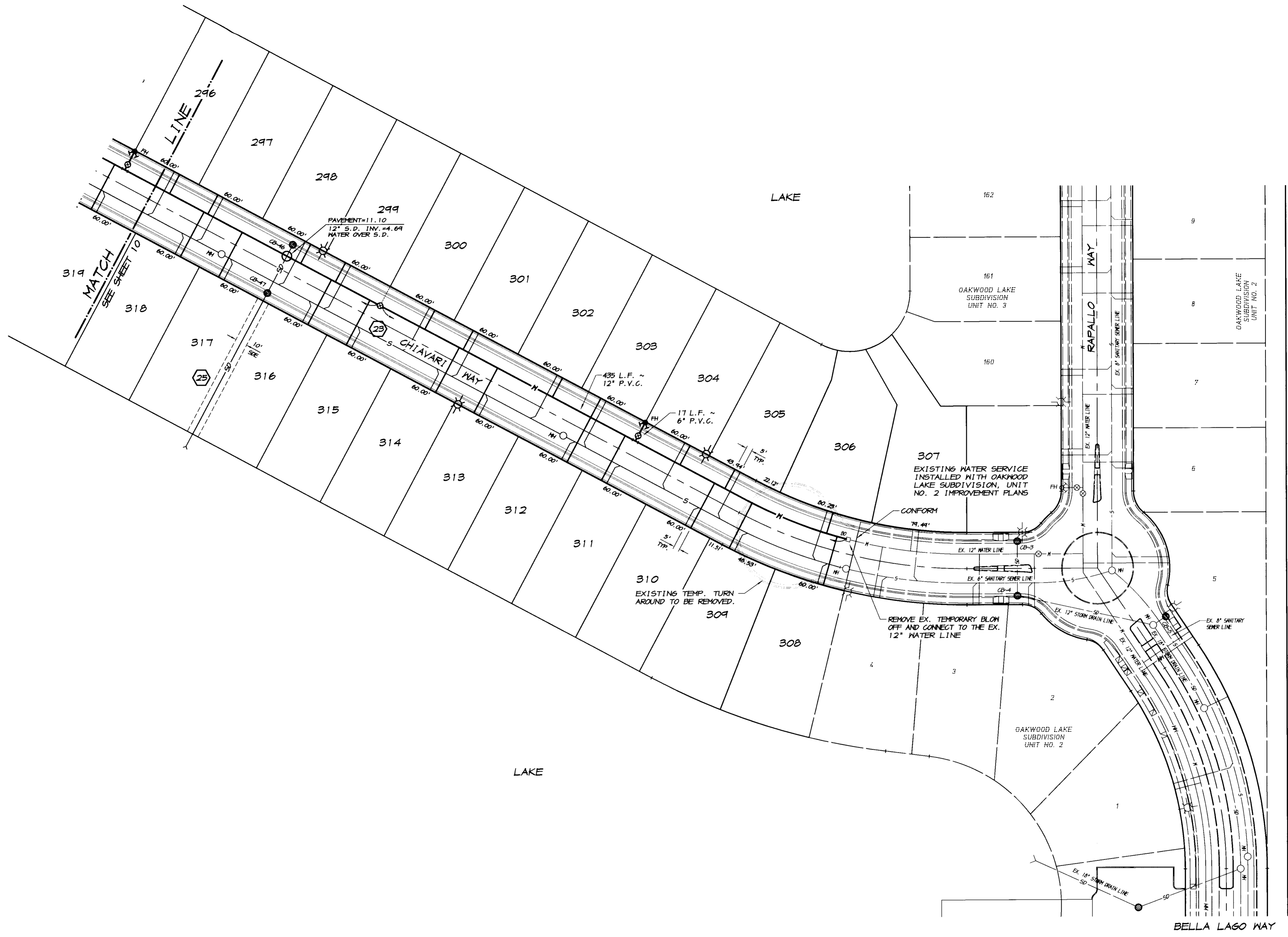


DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-STRIPE  
 CHECKED: KM  
 JOB #: 296H-04

SHEET **12**  
 OF **30**

## RECORD DRAWING

Corrections by:   
 No Change by:   
 Date: 3/12/2008  
 Any Error in this Drawing shall be verified by the Engineer by inspecting the Site Work



MATCH  
SEE SHEET 10

LINE 296

299  
PAVEMENT=11.10  
12" S.D. INV.#4.64  
WATER OVER S.D.

CHIAVARI WAY

RAPALLO WAY

BELLA LAGO WAY



**RECORD DRAWING**  
 Date: 3/12/2009  
 No. 296H-04

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 347B  
**WATER PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

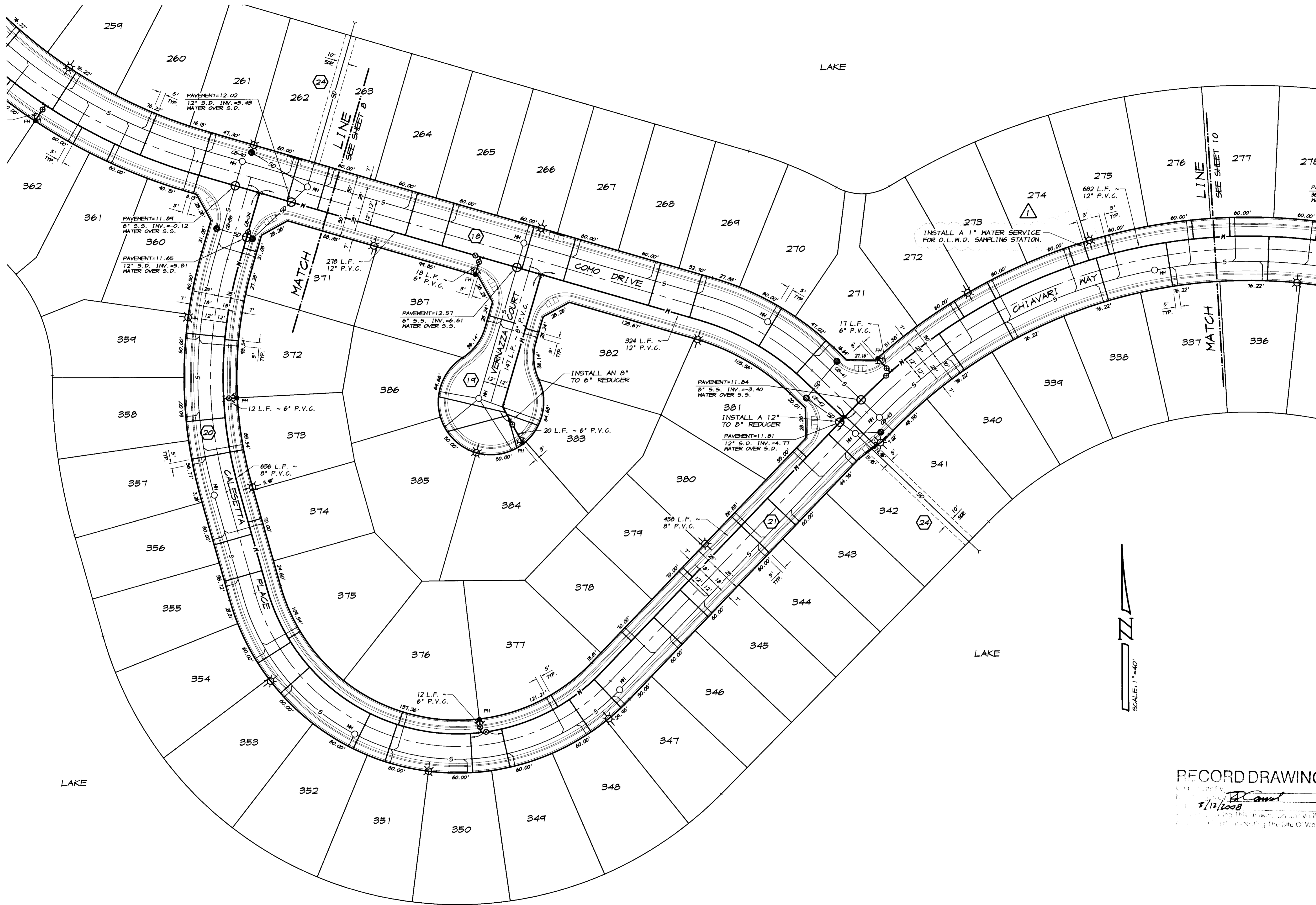
*RC Canal*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-WTR  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **11**  
 OF **30**





SCALE: 1"=40'

**RECORD DRAWING**  
 DATE: 5/12/2008  
 DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-NTR  
 CHECKED: KN  
 JOB #: 296H-04

REVISION	DATE	DESCRIPTION

TRACT NO. 347B

**WATER PLAN**

**OAKWOOD LAKE SUBDIVISION, UNIT 5**

SAN JOAQUIN COUNTY CALIFORNIA

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
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REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-NTR  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **9** OF **30**

# STANDARD LOCATIONS

(UNLESS NOTED OTHERWISE)

**MAINS :** 12' FROM STREET CENTERLINES.

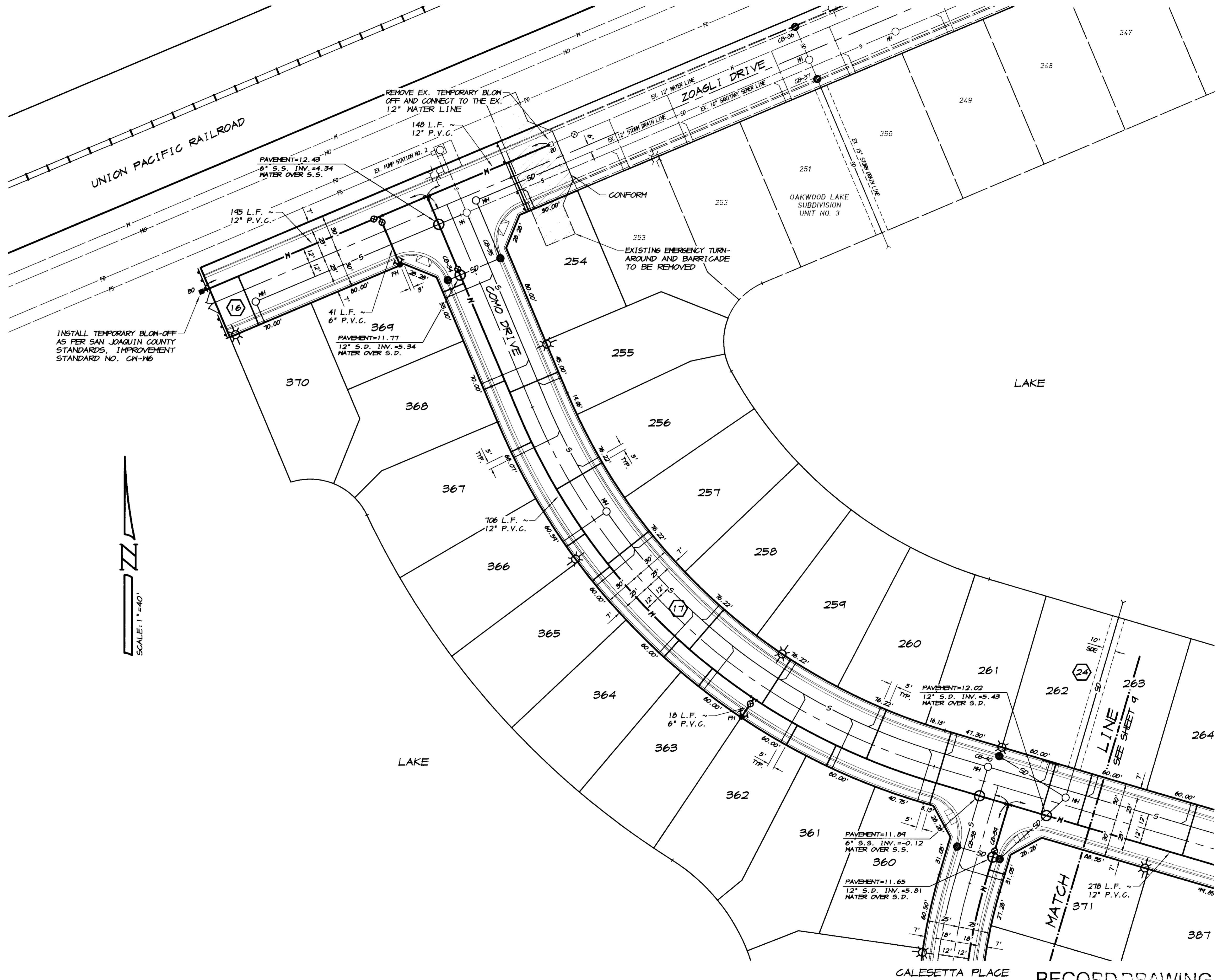
**SERVICES :** 5' MINIMUM FROM THE 4" HOUSE SANITARY SEWER LATERAL.

# GENERAL NOTES

1. VALVE SIZES: ALL VALVES SHALL BE THE SAME SIZE AS THE PIPE.
2. FITTINGS: ALL FITTINGS SHALL BE THE SAME SIZE AS THE PIPE. WHERE PIPE SIZES REDUCE AT A FITTING, THE REDUCTION MUST OCCUR THROUGH THE FITTING, OR AT THE OUTLET. PIPE SIZES MAY NOT BE REDUCED PRIOR TO THE FITTING.

# LEGEND

- P--- EXISTING EDGE OF PAVEMENT
- F--- EXISTING FENCE
- ⊙ MW EXISTING MONITORING WELL
- W--- EXISTING WATER LINE
- S--- EXISTING SANITARY SEWER LINE
- SD--- EXISTING STORM DRAIN LINE
- MO--- EXISTING MANTECA OUTFALL LINE
- ⊙ FH EXISTING FIRE HYDRANT
- ⊙ GV EXISTING GATE VALVE
- ⊙ MH EXISTING MANHOLE
- ⊙ CB-S EXISTING STORM DRAIN CATCH BASIN
- BO EXISTING TEMPORARY BLOW-OFF
- ⊙ EL EXISTING ELECTROLIER
- W--- PROPOSED WATER LINE
- PH--- PROPOSED DOMESTIC WATER SERVICE
- ⊙ FH PROPOSED FIRE HYDRANT
- BO PROPOSED TEMPORARY BLOW-OFF
- S--- PROPOSED SANITARY SEWER LINE
- ⊙ MH PROPOSED SANITARY SEWER MANHOLE
- SL--- PROPOSED 4" HOUSE SEWER LATERAL
- SD--- PROPOSED STORM DRAIN LINE
- ⊙ MH PROPOSED STORM DRAIN MANHOLE
- ⊙ CB-SI PROPOSED STORM DRAIN CATCH BASIN
- ⊙ EL PROPOSED ELECTROLIER



BY	
REVISION	DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
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**WATER PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 3470

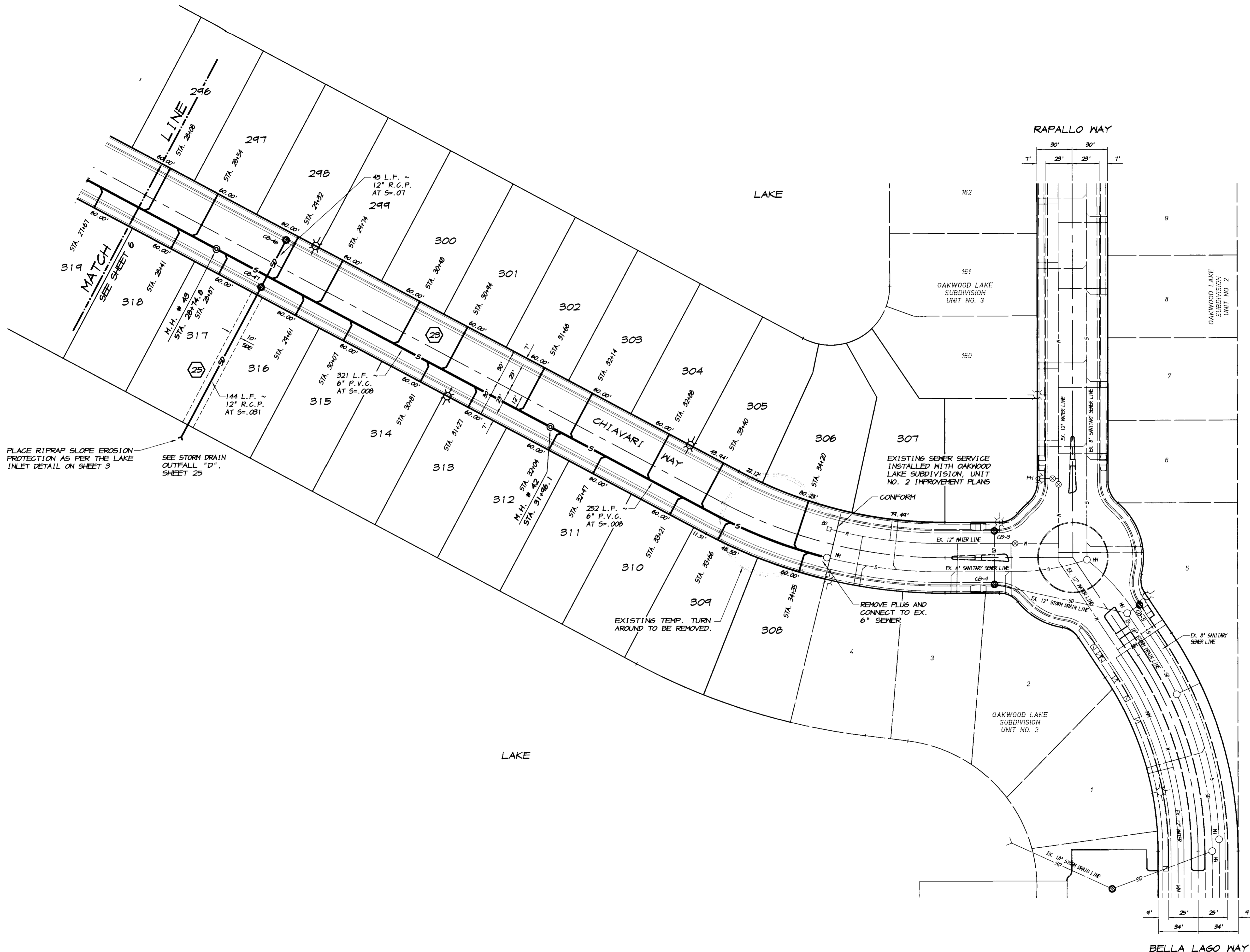
RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: SEPT. 21, 2008  
 SCALE: 1"=40'  
 DWG: 296H-NTR  
 CHECKED: KJN  
 JOB #: 296H-04

SHEET  
**8**  
 OF  
**30**

**RECORD DRAWING**  
 3/12/2009



PLACE RIPRAP SLOPE EROSION PROTECTION AS PER THE LAKE INLET DETAIL ON SHEET 3

SEE STORM DRAIN OUTFALL "D", SHEET 25



REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 3478

**SANITARY SEWER AND STORM DRAIN PLAN**

**OAKWOOD LAKE SUBDIVISION, UNIT 5**

SAN JOAQUIN COUNTY CALIFORNIA

*RYAN CARREL*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. #9026  
 DAVE SKIDMORE, L.S. 7126

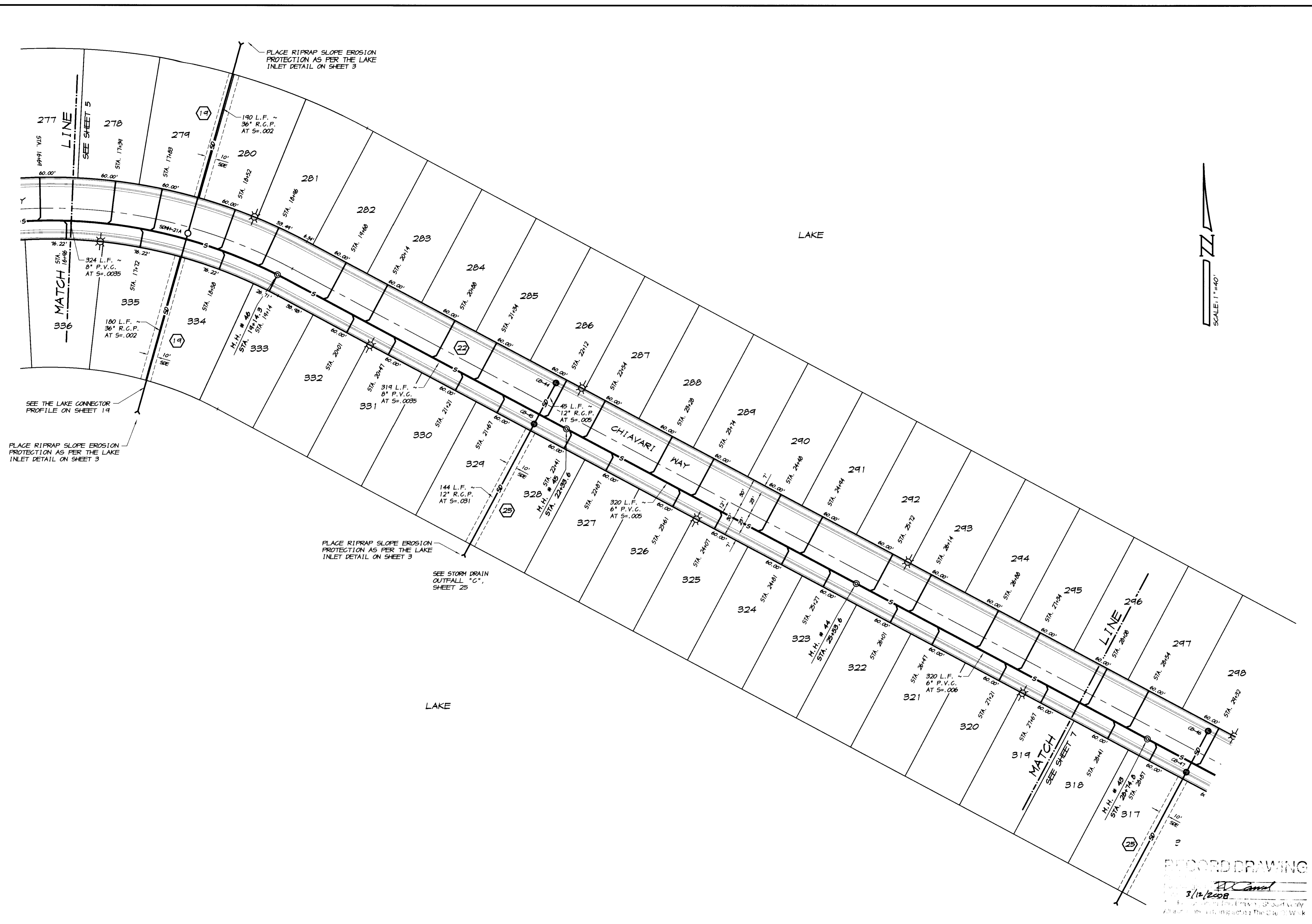


DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=40'  
 DWG: 296H-SSSD  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **7** OF **30**

**RECORD DRAWING**  
 Corrected  
 No. 296H-SSSD  
 Date: 3/14/2008  
 Approved by: *RYAN CARREL*  
 Administrator by inspecting the site of Work





PLACE RIPRAP SLOPE EROSION PROTECTION AS PER THE LAKE INLET DETAIL ON SHEET 3

SEE THE LAKE CONNECTOR PROFILE ON SHEET 19

PLACE RIPRAP SLOPE EROSION PROTECTION AS PER THE LAKE INLET DETAIL ON SHEET 3

PLACE RIPRAP SLOPE EROSION PROTECTION AS PER THE LAKE INLET DETAIL ON SHEET 3

SEE STORM DRAIN OUTFALL "C", SHEET 25



TRACT NO. 347B

**SANITARY SEWER AND STORM DRAIN PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

**ED Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



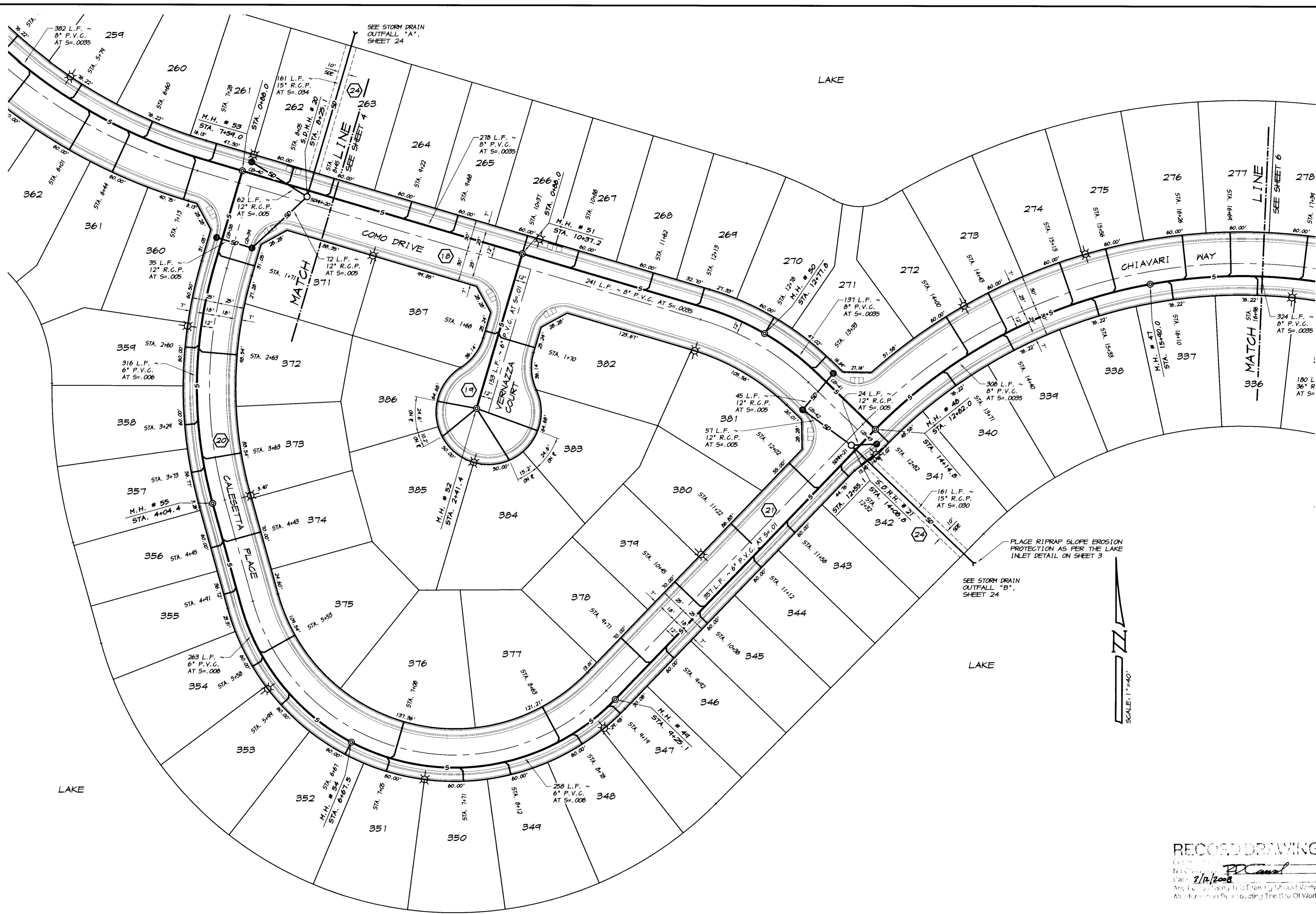
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 DATE: SEPT. 21, 2005  
 SCALE: 1"=40'  
 DWG: 296H-SSSD  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **6** OF **30**

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95336  
 PH: (209) 545-3390 FAX: (209) 545-3875

**RECORD DRAWING**  
 3/12/2008



REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 4306 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



**SANITARY SEWER AND STORM DRAIN PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 347B

**PC Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



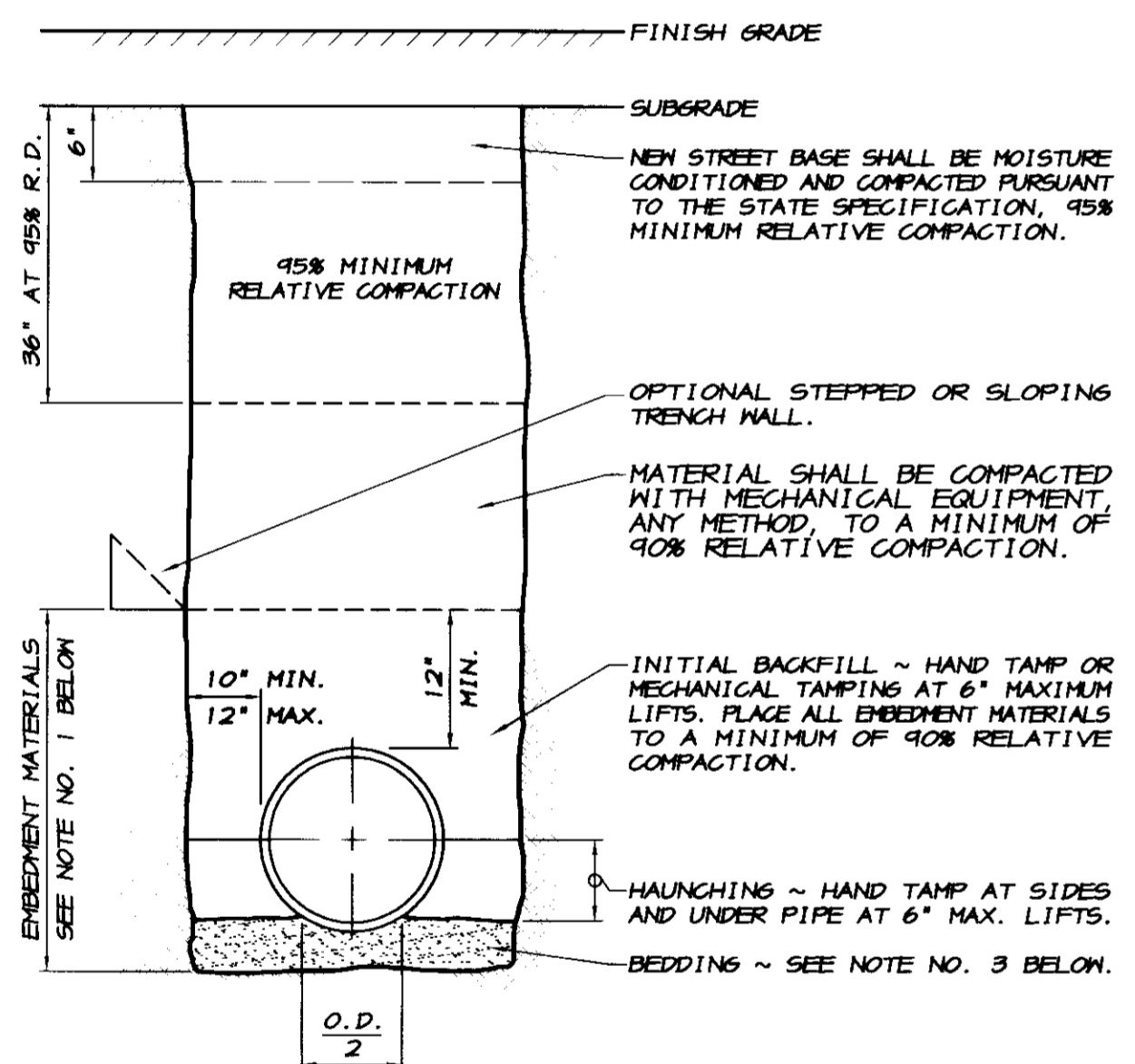
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 CHECKED: KN  
 JOB #: 296H-04

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2006  
 SCALE: 1" = 40'  
 DWG: 296H-SSSD  
 CHECKED: KN  
 JOB #: 296H-04

SHEET  
**5**  
 OF  
**30**

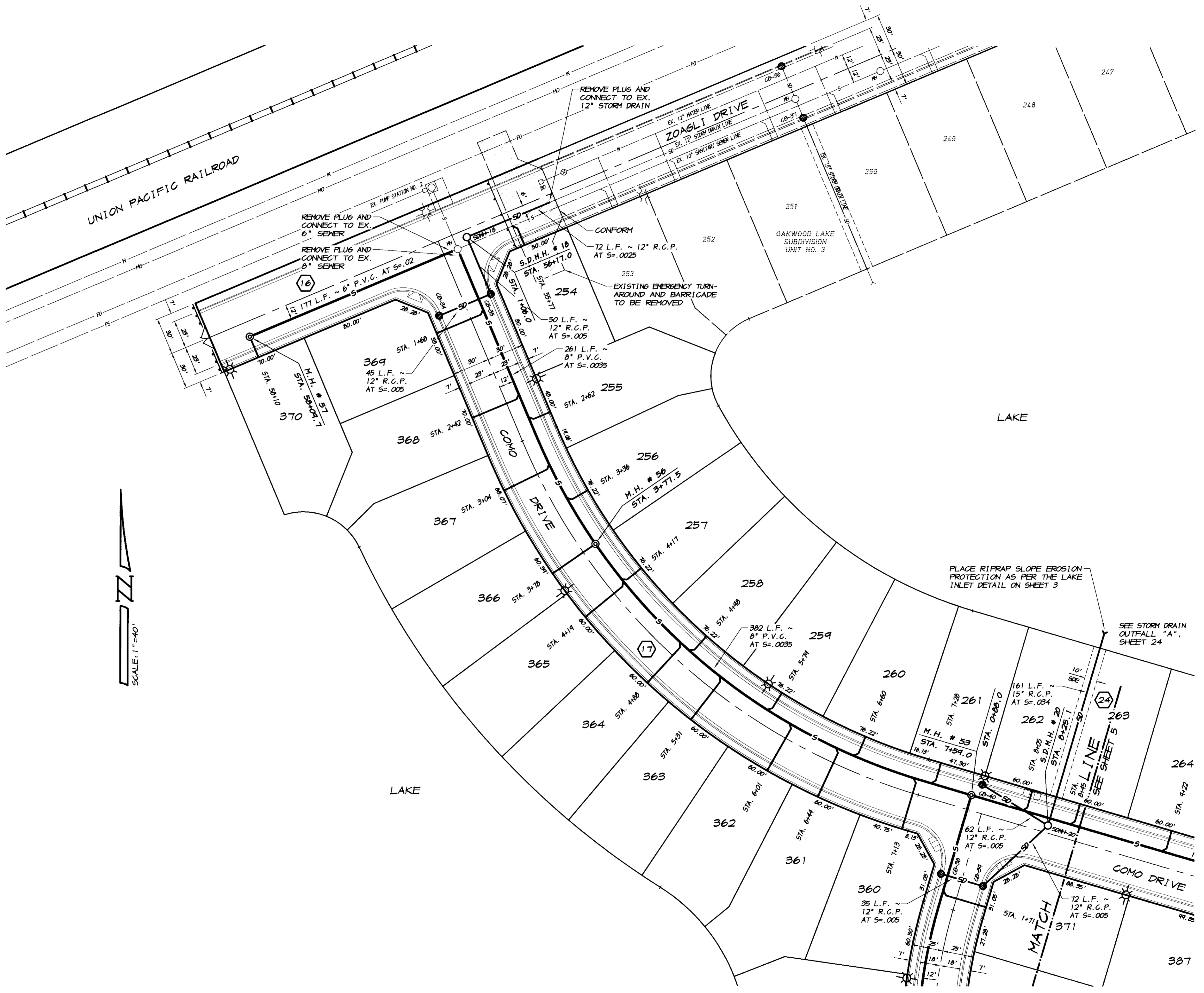
**LEGEND**

- P- EXISTING EDGE OF PAVEMENT
- F- EXISTING FENCE
- ⊕ EXISTING MONITORING WELL
- N EXISTING WATER LINE
- S EXISTING SANITARY SEWER LINE
- SD EXISTING STORM DRAIN LINE
- NO EXISTING MANTECA OUTFALL LINE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING GATE VALVE
- ⊕ EXISTING MANHOLE
- ⊕ EXISTING STORM DRAIN CATCH BASIN
- ⊕ EXISTING TEMPORARY BLON-OFF
- ⊕ EXISTING ELECTROLIER
- ⊕ PROPOSED SANITARY SEWER LINE
- ⊕ PROPOSED SANITARY SEWER MANHOLE
- ⊕ PROPOSED 4" HOUSE SEWER LATERAL
- SD PROPOSED STORM DRAIN LINE
- ⊕ PROPOSED STORM DRAIN MANHOLE
- ⊕ PROPOSED STORM DRAIN CATCH BASIN
- ⊕ PROPOSED ELECTROLIER



- NOTES**
- ALL EMBEDMENT MATERIALS SHALL CONFORM TO CLASS I, II OR III SOIL CLASSIFICATIONS AS DESIGNATED IN ASTM D-2921.
    - CLASS I: ANGULAR 3/4 TO 1 1/2" GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, GINDERS, CRUSHED STONE OR CRUSHED SHELLS.
    - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1 1/2", INCLUDING VARIOUSLY GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER NET OR DRY. SOILS TYPES GM, GP, SM AND SP ARE INCLUDED IN THIS CLASS.
    - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES, AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM AND SC ARE INCLUDED IN THIS CLASS. CLASS III MATERIALS SHALL NOT BE USED IN EMBEDMENT ZONE OF PIPELINES THAT ARE GREATER THAN 14' OF COVER TO THE PROPOSED FINISH GRADE.
  - SELECTED NATIVE MATERIALS CONFORMING TO CLASS I, II, OR III MAY BE USED IN ALL EMBEDMENT ZONES. NATIVE MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES OR LUMPS EXCEEDING 3" IN GREATEST DIMENSION.
  - ANY AREA AT THE BOTTOM OF THE TRENCH DETERMINED TO BE UNSUITABLE BY THE GEOTECHNICAL ENGINEER SHALL BE REMOVED AND REPLACED WITH 6" OF CLASS I, II OR III MATERIALS AT 95% MINIMUM RELATIVE COMPACTION. IN A CASE WHERE THE TRENCH BOTTOM IS UNSTABLE, THE BOTTOM AREA SHALL BE REMOVED AND REPLACED WITH CLASS I, II OR III MATERIALS TO A DEPTH DETERMINED BY THE GEOTECHNICAL ENGINEER.
  - JETTING WILL NOT BE ALLOWED IN THE EMBEDMENT ZONES. COMPACTION OF EMBEDMENT MATERIALS SHALL CONSIST OF HAND TAMPING AND/OR MECHANICAL TAMPING.

**P.V.C. SANITARY SEWER TRENCH SECTION**  
NO SCALE



REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 1206 TECHNOLOGY DRIVE  
 MODesto, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



**SANITARY SEWER AND STORM DRAIN PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

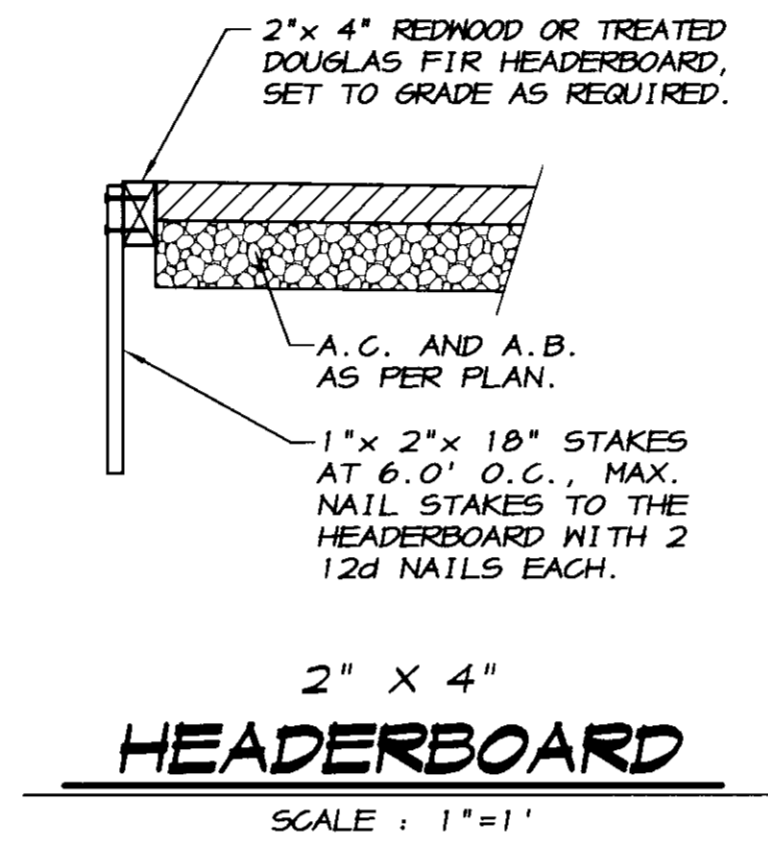
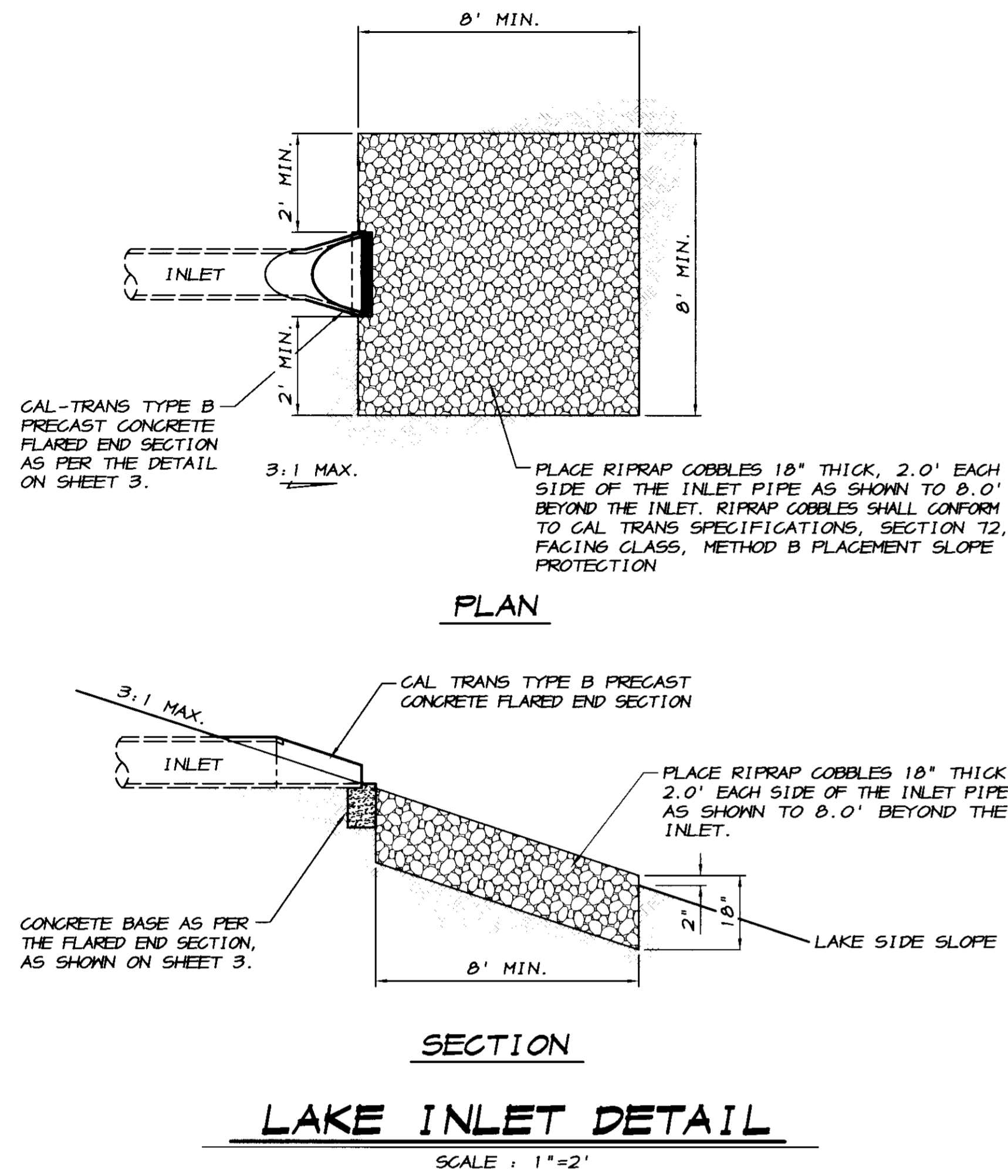
TRACT NO. 347B

**RYAN CARREL, R.C.E. 61619**  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 71226

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1" = 40'  
 DWG: 246H-SSSD  
 CHECKED: KM  
 JOB #: 246H-04

SHEET **4** OF **30**

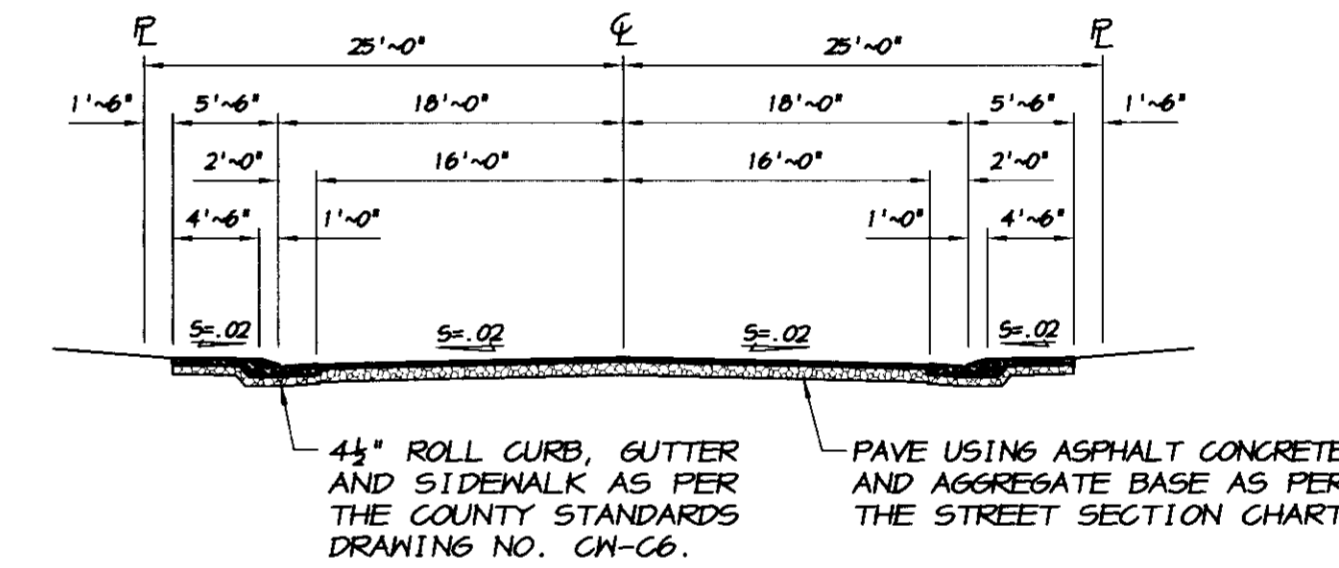
**RECORD DRAWING**  
 Corrected By: *PC*  
 No. Checked: *PC*  
 Date: *3/12/2008*  
 Any Further Changes Must Be Made by the Client or the Designer



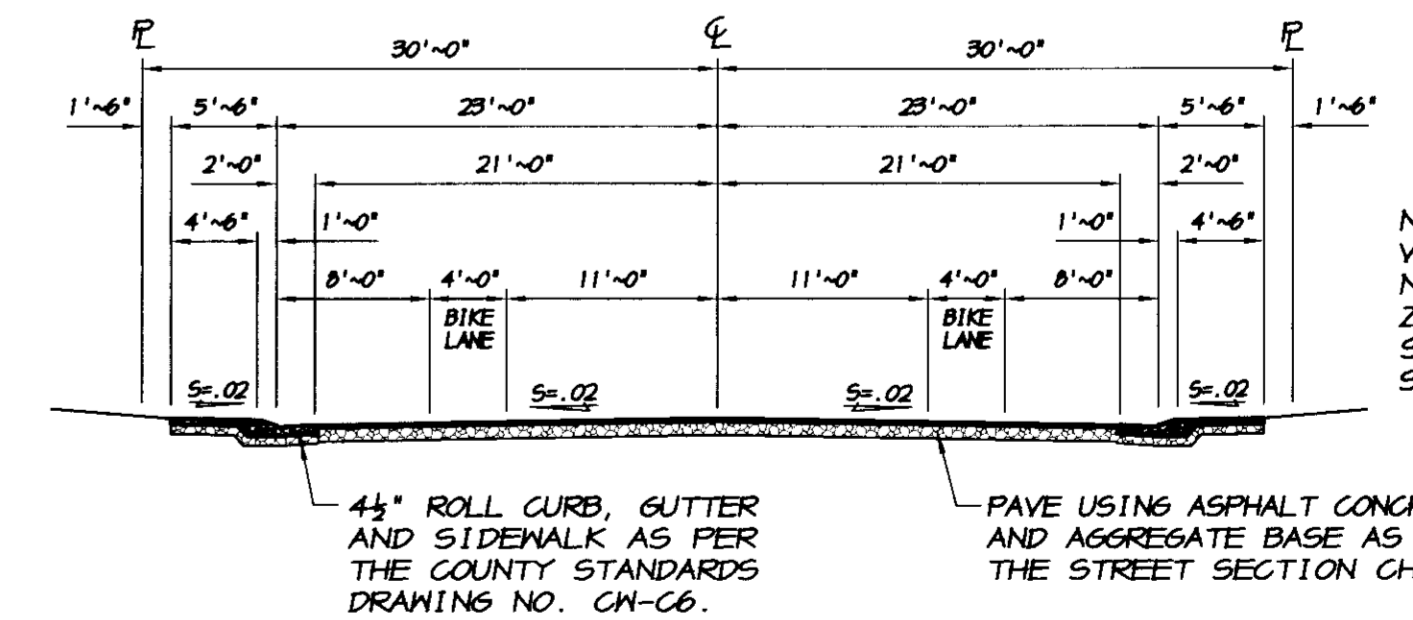
STREET SECTIONS	RIGHT OF WAY WIDTH		SIDEWALK WIDTH		CURB TYPE	PROPERTY LINE TO FLOW LINE		STRUCTURAL SECTION	TRAFFIC INDEX *R*
	50'	60'	4 1/2' D.O.	6' VERT.		A.C./A.B.	T.I.		
ZOAGLI DRIVE STA. 55+39.66 TO STA. 58+39.66	●	●	4.5' (S)	⊙ (N)	●	0.20'	0.70'	5.0	20
COMO DRIVE	●	●	4.5'	●	●	0.20'	0.70'	5.0	20
VERNAZZA COURT	●	●	4.5'	●	●	0.20'	0.70'	5.0	20
GALESSETTA PLACE	●	●	4.5'	●	●	0.20'	0.70'	5.0	20
CHIAVARI WAY	●	●	4.5'	●	●	0.20'	0.70'	5.0	20

**R-VALUE NOTE**

R-VALUE TESTING SHALL BE PERFORMED ON SUBGRADE AFTER THE ROUGH GRADING HAS BEEN COMPLETED. TO VERIFY THE EXACT R-VALUES TO BE USED FOR THE FINAL ASPHALTIC PAVEMENT DESIGNS. THE CONTRACTOR SHALL WORK CLOSELY WITH THE SOILS ENGINEER TO DETERMINE THE EXTENTS OF THE GRADING WORK REQUIRED IN AREAS DEEMED UNACCEPTABLE BY THE SOILS ENGINEER. ALL FINAL DESIGNS AND SOLUTIONS SHALL BE APPROVED BY SAN JOAQUIN COUNTY PRIOR TO PLACING THE AGGREGATE BASE ROCK.



TYPICAL 50' STREET SECTION  
SCALE: 1"=10'

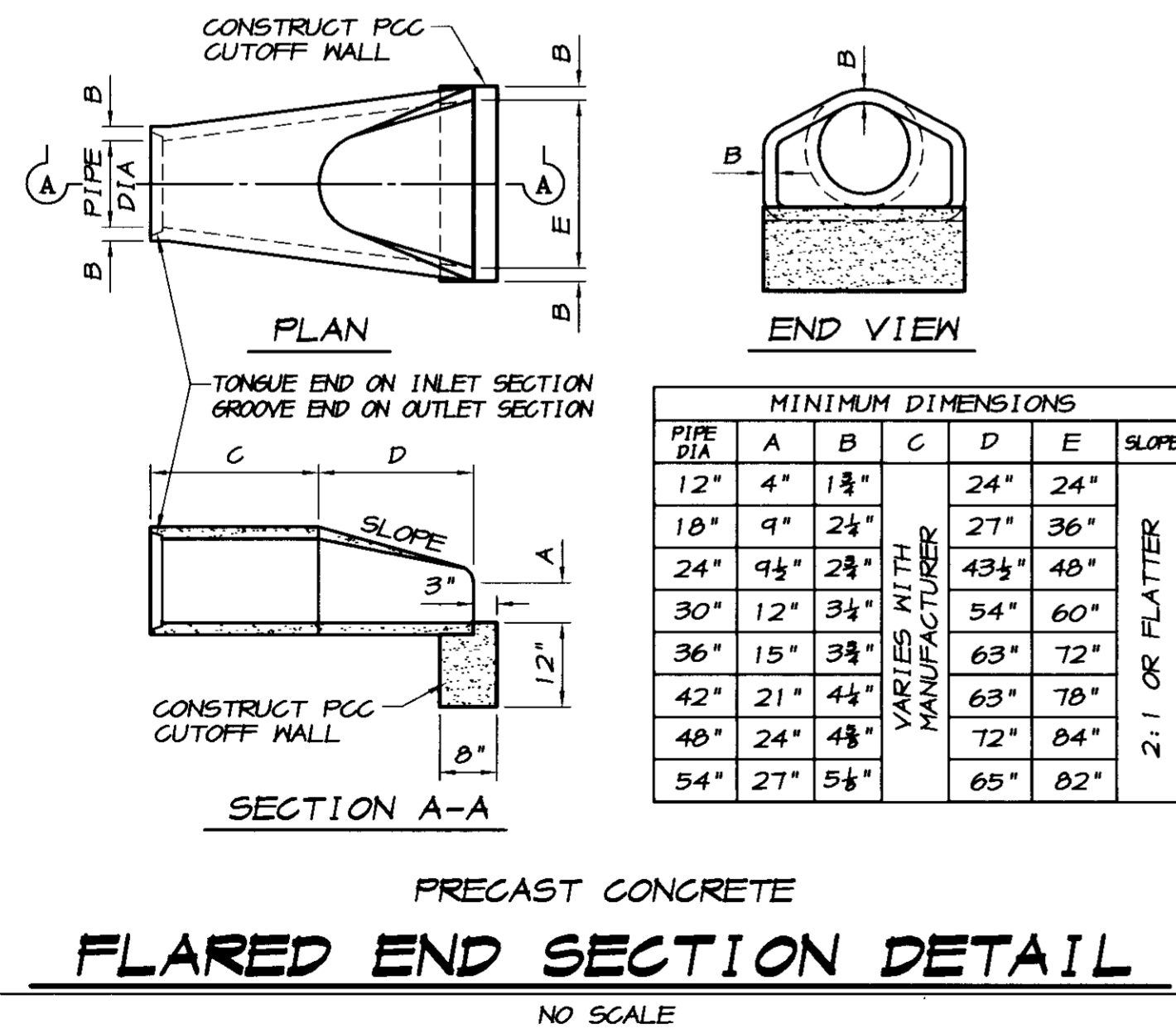


TYPICAL 60' STREET SECTION  
SCALE: 1"=10'

NOTE: INSTALL 6" VERTICAL CURB WITH NO SIDEWALK ON ZOAGLI DRIVE FROM STA. 55+39.66 TO STA. 58+39.66.

**UTILITY CONTACTS**

- SANITARY SEWER ~ OAKWOOD LAKE WATER DISTRICT  
ATTN.: MIKE GILTON PH. (209) 634-6920
- DOMESTIC WATER ~ OAKWOOD LAKE WATER DISTRICT  
ATTN.: MIKE GILTON PH. (209) 634-6920
- STORM DRAINAGE ~ OAKWOOD LAKE WATER DISTRICT  
ATTN.: MIKE GILTON PH. (209) 634-6920
- ELECTRIC ~ PACIFIC GAS AND ELECTRIC COMPANY  
ATTN.: THOMAS SAMANIESO PH. (209) 942-1793
- GAS ~ PACIFIC GAS AND ELECTRIC COMPANY  
ATTN.: THOMAS SAMANIESO PH. (209) 942-1793
- TELEPHONE ~ VERIZON COMMUNICATIONS  
ATTN.: KATHY STROUT PH. (209) 239-0346
- CABLE TELEVISION ~ COMCAST  
ATTN.: MELANIE HERNANDEZ PH. (209) 474-1747 EXT. 238
- STREET LIGHTING ~ PACIFIC GAS AND ELECTRIC CO.  
ATTN.: THOMAS SAMANIESO PH. (209) 942-1793



PIPE DIA	MINIMUM DIMENSIONS					SLOPE
	A	B	C	D	E	
12"	4"	1 3/4"		24"	24"	2:1 OR FLATTER
18"	9"	2 1/4"		27"	36"	
24"	9 1/2"	2 3/4"		43 1/2"	48"	
30"	12"	3 1/4"		54"	60"	
36"	15"	3 3/4"		63"	72"	
42"	21"	4 1/4"		63"	78"	
48"	24"	4 3/4"		72"	84"	
54"	27"	5 1/4"		65"	82"	

BY: \_\_\_\_\_  
 REVISION DATE DESCRIPTION  
 ASSOCIATED ENGINEERING, INC.  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 347B  
**STREET SECTIONS & DETAILS**  
**OAKWOOD LAKE SUBDIVISION, UNIT 5**  
 SAN JOAQUIN COUNTY CALIFORNIA

**DR**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 No. 61619  
 Exp. 6-30-07

DRAWN BY: J.S.H.  
 DATE: SEPT. 21, 2005  
 SCALE: 1"=500'  
 DWG: 296H-CVR  
 CHECKED: KN  
 JOB #: 296H-04

SHEET **3** OF 30

RECORD DRAWING  
 GUTTER VERT. NO SIDEWALK  
 DATE: 7/12/2008  
 Any Person Using This Drawing Should Verify All Information by inspecting The Site Of Work

# SPECIFICATIONS

- ALL IMPROVEMENTS TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, AND THE REQUIREMENTS OF THE OAKWOOD LAKE WATER DISTRICT. THE OAKWOOD LAKE WATER DISTRICT FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF MANTUECA DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
  - BENCHMARK: CITY OF MANTUECA BENCHMARK NO. 71, 2" BRASS CAP LOCATED APPROXIMATELY 25 FEET NORTH OF THE NORTHEAST CORNER OF SECTION 11, TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN, AT THE INTERSECTION OF MCKINLEY AVENUE AND BRONZAN ROAD. ELEVATION = 16.708, U.S.G.S. DATUM.
  - SOILS REPORT: THE GEOTECHNICAL SERVICES REPORT FOR THE PROPOSED OAKWOOD LAKE DEVELOPMENT, MOODWARD AVENUE, MANTUECA, CALIFORNIA, AS PREPARED BY KLEINFELDER, INC., WITH PROJECT NO. 40093.601, DATED OCTOBER 27, 2004, IS HEREBY MADE A PART OF THESE PLANS.
  - THESE PLANS HAVE BEEN CHECKED BY THE COUNTY OF SAN JOAQUIN AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.
  - IF A CONFLICT OCCURS BETWEEN THE SAN JOAQUIN COUNTY DESIGN AND CONSTRUCTION STANDARDS AND THE RECOMMENDATIONS BY THE DESIGN ENGINEER AND/OR SOILS ENGINEER, THE MORE STRINGENT SHALL APPLY AS DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
  - GUARANTEE: THE COMPLETED PROJECT, INCLUDING ALL WORK, MATERIALS, DEVICES AND EQUIPMENT, SHALL BE GUARANTEED BY THE DEVELOPER AGAINST FAULTY WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE BOARD OF SUPERVISORS. THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL REPAIR AND/OR REPLACEMENTS INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, DEVICES, PLANT AND OTHER ITEMS OF WORK NECESSARY TO SECURE THIS GUARANTEE. A BOND OR OTHER SECURITY SHALL BE PROVIDED IN THE AMOUNT OF 20% OF THE VALUE OF THE WORK ESTIMATED BY THE ENGINEER. SAID BOND SHALL CONTINUE IN FULL FORCE AND EFFECT FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FORMAL ACCEPTANCE OF THE WORK BY THE DIRECTOR OF PUBLIC WORKS OR BOARD OF SUPERVISORS.
  - INSPECTION DURING CONSTRUCTION: ANY IMPROVEMENTS CONSTRUCTED TO THESE SPECIFICATIONS AND WHICH IT IS INTENDED THAT THE COUNTY OR A HOMEOWNERS ASSOCIATION WILL ASSUME MAINTENANCE RESPONSIBILITY, MUST BE INSPECTED DURING CONSTRUCTION BY AN AUTHORIZED AGENT OF THE DEVELOPER AND DIRECTOR OF PUBLIC WORKS. EACH PHASE OF CONSTRUCTION MUST BE INSPECTED AND APPROVED PRIOR TO PROCEEDING TO THE SUBSEQUENT PHASES.  
ANY IMPROVEMENTS CONSTRUCTED WITHOUT INSPECTION AS PROVIDED ABOVE OR CONSTRUCTED CONTRARY TO THE ORDERS OR INSTRUCTIONS OF THE AUTHORIZED AGENT OF THE DEVELOPER OR DIRECTOR WILL BE DEEMED AS NOT COMPLYING WITH THE SAN JOAQUIN COUNTY STANDARDS AND SPECIFICATIONS, AND WILL NOT BE ACCEPTED BY SAN JOAQUIN COUNTY FOR MAINTENANCE PURPOSES.  
THE DEVELOPER WILL HAVE COMPACTION TESTS TAKEN ON ALL LOTS WHERE THE DEPTH OF FILL IS GREATER THAN SEVEN (7) INCHES AND WITHIN THE STREETS. RE-TESTS THAT ARE THE RESULT OF THE CONTRACTOR'S FAILURE TO COMPACT THESE AREAS AS REQUIRED WILL BE BORNE BY THE CONTRACTOR.  
THE COUNTY DEPARTMENT OF PUBLIC WORKS WILL PERFORM FIELD INSPECTIONS FOR THIS PROJECT. THE OAKWOOD LAKE WATER DISTRICT WILL PERFORM FIELD INSPECTIONS FOR THE INSTALLATION OF THE SANITARY SEWER, DOMESTIC WATER AND STORM DRAIN SYSTEMS FOR THIS PROJECT.  
THE CIVIL ENGINEER, DIRECTOR AND DEVELOPER, OR THEIR AGENTS, SHALL AT ALL TIMES, HAVE ACCESS TO THE WORK DURING ITS CONSTRUCTION, AND SHALL BE FURNISHED WITH EVERY REASONABLE FACILITY FOR ASCERTAINING THAT THE MATERIALS AND THE WORKMANSHIP ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENTIONS OF THESE SPECIFICATIONS. ALL WORK DONE AND ALL MATERIALS SUBMITTED SHALL BE SUBJECT TO REVISION. THE REVIEW OF THE WORK OR MATERIALS SHALL NOT RELIEVE THE CONTRACTOR AND DEVELOPER OF ANY OF THEIR OBLIGATIONS TO FULFILL THEIR CONTRACT AS PRESCRIBED.
  - FINAL REVIEW: UPON COMPLETION OF ANY IMPROVEMENTS WHICH ARE CONSTRUCTED UNDER AND IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS, AND PRIOR TO REQUESTING FINAL INSPECTION, THE AREA SHALL BE THOROUGHLY CLEANED OF ALL RUBBISH, EXCESS MATERIAL AND EQUIPMENT, AND ALL PORTIONS OF THE WORK SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION, SATISFACTORY TO THE DIRECTOR AND THE DEVELOPER.
- WITHIN TEN (10) DAYS AFTER RECEIVING THE REQUEST FOR FINAL INSPECTION, THE DIRECTOR SHALL INSPECT THE WORK. THE DEVELOPER, OR HIS AUTHORIZED REPRESENTATIVE, WILL BE NOTIFIED IN WRITING AS TO ANY PARTICULAR DEFECTS OR DEFICIENCIES TO BE REMEDIATED. THE CONTRACTOR SHALL PROCEED TO CORRECT ANY SUCH DEFECTS OR DEFICIENCIES AT THE EARLIEST POSSIBLE DATE. AT SUCH TIME, AS THE WORK HAS BEEN COMPLETED, A SECOND INSPECTION SHALL BE MADE BY THE DIRECTOR. DEFECTS OR DEFICIENCIES NOT MENTIONED IN THE FIRST INSPECTION SHALL BE REPAIRED, ALTERED AND COMPLETED IN ACCORDANCE WITH THESE STANDARDS AND SPECIFICATIONS.
- WHEN THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THE DIRECTOR WILL RECOMMEND TO THE BOARD OF SUPERVISORS THE ACCEPTANCE OF THE WORK. THE DIRECTOR WILL NOTIFY, IN WRITING, THE DEVELOPER, OR HIS AUTHORIZED REPRESENTATIVE, AS TO THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
- CHANGES ON PLANS AND SPECIFICATIONS: ANY CHANGES TO THE APPROVED IMPROVEMENT PLANS AND SPECIFICATIONS MUST BE PREPARED AND CERTIFIED BY THE CIVIL ENGINEER, AND SHALL BE SUBMITTED TO THE DIRECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION.
  - THE CONTRACTOR SHALL KEEP HIMSELF FULLY INFORMED OF ALL EXISTING AND FUTURE STATE AND FEDERAL LAWS AND ALL COUNTY, MUNICIPAL AND SPECIAL DISTRICT ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THOSE ENGAGED OR EMPLOYED IN THE WORK, OR THE MATERIALS USED IN THE WORK, OR WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, AND OF ALL SUCH ORDERS AND DECREES OF BODIES OR TRIBUNALS HAVING ANY JURISDICTION OR AUTHORITY OVER THE SAME. THE CONTRACTOR SHALL AT ALL TIMES OBSERVE AND COMPLY WITH, AND SHALL CAUSE ALL HIS AGENTS AND EMPLOYEES TO OBSERVE AND COMPLY WITH ALL SUCH EXISTING AND FUTURE LAWS, ORDINANCES, REGULATIONS, ORDERS AND DECREES OF BODIES OR TRIBUNALS HAVING ANY JURISDICTION OR AUTHORITY OVER THE WORK, AND SHALL PROTECT AND INDEMNIFY SAN JOAQUIN COUNTY AND THE OTHER OFFICERS AND EMPLOYEES CONNECTED WITH THE WORK, INCLUDING THE ENGINEER, AGAINST ANY CLAIM OR LIABILITY ARISING FROM OR BASED ON THE VIOLATION OF ANY SUCH LAW, ORDINANCE, REGULATION, ORDER, OR DECREE, WHETHER BY HIMSELF OR HIS EMPLOYEES. IF ANY DISCREPANCY OR INCONSISTENCY IS DISCOVERED IN THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE WORK IN RELATION TO ANY SUCH LAW, ORDINANCE, REGULATION, ORDER, OR DECREE THE CONTRACTOR SHALL FORTHWITH REPORT THE SAME TO THE ENGINEER IN WRITING.
  - THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORK PERFORMED BY THE CONTRACTOR OR OWNER BASED ON PLANS WHICH HAVE NOT BEEN SIGNED AND SEALED BY THE ENGINEER AND APPROVED BY THE CITY OR COUNTY HAVING JURISDICTION. ALL INFORMATION SHOWN ON PRELIMINARY DRAWINGS IS SUBJECT TO CORRECTION AND CHANGE, AND THE CONTRACTOR OR OWNER SHALL PERFORM ANY AND ALL WORK AT THEIR OWN RISK.
  - ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRUDE WILL BE GIVEN FROM THE TOP OF NAILS OR STAKES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PRESERVE ALL POINTS AND STAKES SET FOR LINES AND GRADES OR MEASUREMENTS OF THE WORK, IN THEIR PROPER LOCATION UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
  - THESE PLANS HAVE BEEN PREPARED WITH THE INTENT THAT ASSOCIATED ENGINEERING GROUP, INC. WILL PERFORM THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. THE CONTRACTOR SHALL PROVIDE ASSOCIATED ENGINEERING GROUP, INC. WITH FORTY-EIGHT HOURS ADVANCE NOTICE OF STAKING NEEDS. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND THE AGREED UPON STAKING REQUEST SHALL BE SUBJECT TO AN EXTRA BACK CHARGE TO THE CONTRACTOR'S CLIENT. IF ANOTHER FIRM OR AGENCY IS EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT ASSOCIATED ENGINEERING GROUP, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF ASSOCIATED ENGINEERING GROUP, INC. HAD PERFORMED THE STAKING WORK.
  - WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FINEST QUALITY ARE TO BE USED.
  - THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD (SWRCB). ORDER NO. 92-06-DMS, NPDES GENERAL PERMIT NO. CAS00002. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE SWRCB REGULATIONS.
  - THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."
  - INDEMNITY CLAUSE: CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS, THE COUNTY OF SAN JOAQUIN, ITS ELECTED OFFICIALS, OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL CLAIMS, COSTS OF LITIGATION, DAMAGES, AND ATTORNEY'S FEES, FOR PERSONAL INJURY OR PROPERTY DAMAGE OF WHATEVER NATURE WHICH ARE CLAIMED TO HAVE OCCURRED DURING THE TERM OF THIS PROJECT.
  - APPROPRIATE DUST CONTROL SHALL BE PROVIDED FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE AS REQUIRED BY THE COUNTY OF SAN JOAQUIN, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL IMPLEMENT A DUST CONTROL PROGRAM AS PART OF THE MEASURES REQUIRED BY THE E.P.A. (CHAPTER 4.6) FOR AIR QUALITY CONTROL AND THE REQUIREMENTS OF PH 10 AND THE BEST AVAILABLE CONTROL MEASURES (BACM) APPROVED BY THE BOARD. THE PROGRAM SHALL INSURE THAT, AT THE PUBLIC WORKS DIRECTOR'S DISCRETION, A WATER VEHICLE FOR DUST CONTROL OPERATIONS IS KEPT READILY AVAILABLE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE PUBLIC WORKS DIRECTOR AND BUILDING OFFICIAL WITH THE NAME AND TELEPHONE NUMBER OF THE PERSON DIRECTLY RESPONSIBLE FOR DUST CONTROL AND OPERATION OF THE WATER VEHICLE.
  - THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS OR FIELD LOCATIONS WHEN POSSIBLE. THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING FACILITIES INCLUDING GAS, WATER, IRRIGATION, POWER, TELEPHONE, SEWER OR OTHER WHICH MAY BE PRESENT IN THE AREA OF CONSTRUCTION. THE RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO BEGINNING WORK.
  - THE EXISTING UTILITIES SHALL NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE APPROPRIATE AGENCIES AND UTILITY COMPANIES.

- ALL CONSTRUCTION STAKING FOR GRADINGS, CURBS AND GUTTERS, SIDEWALKS, SANITARY SEWERS, STORM DRAINS, WATER LINES, FIRE HYDRANTS, ELECTROLYTERS, ETC. SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
  - PRIOR TO TRENCHING FOR ANY SEWER, WATER OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING. ANY DAMAGE CAUSED BY TRENCHING TO EXISTING UNDERGROUND UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SAN JOAQUIN COUNTY STANDARD DETAILS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING, OR JETTING SHALL BE PERMITTED UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS IN WRITING.
  - TESTING:
    - ALL INDEPENDENT LABORATORY INSPECTIONS CALLED FOR BY THE DIRECTOR OF PUBLIC WORKS WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
    - ROADWAY SUB-GRADE, SUB-BASE, BASE, AND TRENCH BACKFILL COMPACTION TESTING SHALL BE PERFORMED BY A LICENSED SOILS ENGINEER, AT THE DEVELOPERS EXPENSE.
    - TESTS FOR R-VALUES ARE REQUIRED PRIOR TO THE INSTALLATION OF BASE ROCK.
    - A MINIMUM OF 40 HOURS NOTICE IS REQUIRED TO SCHEDULE ALL SOILS TESTING SERVICES.
  - ASBESTOS CEMENT PIPE (ACP) OR VITRIFIED CLAY PIPE (VCP) OR ITS FITTINGS SHALL NOT BE USED WITHIN SAN JOAQUIN COUNTY.
  - THE FULL STRUCTURAL SECTION OF THE MAJOR STREET SHALL BE CONTINUED THROUGH THE INTERSECTIONS.
  - TRAFFIC CONTROL DEVICES AND INSTALLATIONS SHALL BE IN CONFORMANCE WITH M.U.T.C.D., SECTION IV BY THE U.S. DEPARTMENT OF TRANSPORTATION AND THE CALIFORNIA SUPPLEMENT TO THE M.U.T.C.D., AND MUST MEET THE COUNTY STANDARDS.
  - IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AND AN ARCHAEOLOGIST CONSULTED, AND THE COUNTY PUBLIC WORKS DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES AS MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS, SHALL BE TAKEN TO PROTECT THEM.
  - DISPOSAL OF WATER INTO THE SANITARY SEWER SYSTEM IS STRICTLY PROHIBITED.
  - THE CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. ALL SPILLS OF SOIL, ROCK, CONSTRUCTION DEBRIS, ETC. SHALL BE REMOVED IMMEDIATELY FROM PUBLICLY OWNED PROPERTY, ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION. THE CONTRACTOR SHALL PROVIDE FOR SAFE, UNOBSTRUCTED ACCESS TO PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE PUBLIC WORKS DEPARTMENT THE NAME AND TELEPHONE NUMBER OF PERSON AVAILABLE 24 HOURS A DAY IF PROBLEMS OR CONDITION IS NOT MET.
  - ALL TRASH, CONSTRUCTION DEBRIS AND MATERIALS SHALL BE CONTAINED WITHIN THE CONSTRUCTION AREA UNTIL OFF-SITE DISPOSAL CAN BE ARRANGED.
  - THE CONTRACTOR SHALL KEEP ADJOINING PUBLIC STREETS AND PARKING AREAS FREE AND CLEAN OF PROJECT DIRT, MUD AND MATERIALS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIVE MEASURES AS DIRECTED BY THE PUBLIC WORKS INSPECTOR AT NO EXPENSE TO THE COUNTY.
  - THE APPLICANT SHALL ALERT CONSTRUCTION PERSONNEL OF THE POSSIBILITY OF BURIED CULTURAL RESOURCES, HUMAN REMAINS AND OTHER SUCH CULTURAL RESOURCES AND SHALL IMMEDIATELY COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE EIR, INCLUDING THE STOPPAGE OF ALL WORK, NOTIFICATION OF THE NATIVE AMERICAN HERITAGE COMMISSION AND THE SAN JOAQUIN COUNTY CORNER, AS APPLICABLE.
  - WHEN NIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE SAWN TO A NEAT LINE AND REMOVED BACK TO AN EXISTING SOUND STRUCTURAL SECTION AS DETERMINED BY THE CITY INSPECTOR. AN EXPLORATORY TRENCH, OR FOTHOLOGS, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL. THE CONTRACTOR SHALL OBTAIN AN ENGAGEMENT PERMIT FROM THE CITY OF MANTUECA PRIOR TO BEGINNING ANY WORK ON HOODWARD AVENUE.
  - STREET STRIPING SHALL INCLUDE STOP BARS, LEGENDS, CENTERLINE STRIPING REFLECTIVE PAVEMENT MARKERS, CROSSWALKS AND ALL OTHER MARKINGS REQUIRED BY THE DIRECTOR OF PUBLIC WORKS. ALL STRIPING SHALL BE DONE WITH THERMOPLASTIC AND REFLECTIVE MARKERS. ALL STRIPING SHALL BE CAT-TRACKED PRIOR TO FINAL INSTALLATION. THE INSTALLATION WILL BE ALLOWED ONLY AFTER APPROVAL OF THE STRIPING LAYOUT BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
  - FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO THE COMPLETION OF UTILITY RELOCATIONS WITHOUT THE SPECIFIC APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
  - THE THICKNESS OF SUBBASE, BASE, AND SURFACING SHALL BE AS APPROVED ON THE IMPROVEMENT PLANS. SEE THE STREET SECTIONS CHART.
  - FOG SEAL AT ASPHALT CONCRETE. THE TYPE OF FOG SEAL USED SHALL BE PER SECTION 3T OF CALTRANS STANDARD SPECIFICATIONS LATEST EDITION AND AS APPROVED BY SAN JOAQUIN COUNTY PRIOR TO USE.
  - THERE SHALL BE A 2% CROSS SLOPE ON THE CONSTRUCTION OF ALL NEW STREETS.
  - ALL TERMINATED STREETS WITHOUT A GUL-DE-SAC SHALL HAVE A BARRIAGE INSTALLED IN ACCORDANCE WITH STANDARD DETAIL R-24 OF THE STANDARD DETAILS.
  - ALL MANHOLE RINGS, LAMPHOLES, VALVES AND MONUMENT BOXES, ETC. SHALL BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING BY THE UNDERGROUND CONTRACTOR AFTER THE FINAL PAVING COURSE IS PLACED, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR MANHOLES.
  - UTILITY BOXES SET IN PAVED STREETS SHALL HAVE H-20 LIDS.
- GRADING NOTES**
- ALL GRADING SHALL BE INSPECTED AND TESTED BY A QUALIFIED SOILS ENGINEER OR UNDER THEIR DIRECTION. THE SOILS ENGINEER SHALL SUBMIT A REPORT TO THE COUNTY OF SAN JOAQUIN THAT INSPECTIONS AND TESTS WERE MADE BY HIM OR UNDER HIS SUPERVISION AND THAT IN HIS OPINION ALL FILLS ARE COMPACTED TO THE REQUIRED RELATIVE DENSITY AND ARE ACCEPTABLE FOR THEIR INTENDED USE.
  - THE CONTRACTOR SHALL LIMIT TRAFFIC SPEEDS ON ANY UNPAVED SURFACES TO 15 MILES PER HOUR TO LOWER THE AMOUNT OF DUST CREATED.
  - THE CONTRACTOR SHALL SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN THE WINDS EXCEED 20 MILES PER HOUR.
  - DEVELOPER/CONTRACTOR'S WORK SHALL BE IN ACCORDANCE WITH THE SJVAPCD GUIDELINES, INCLUDING SJVAPCD REGULATION VIII AND IMPLEMENT CONTROL MEASURES BASED ON SJVAPCD'S COMPLIANCE ASSISTANT BULLETIN FOR SHORT TERM IMPACTS. SJVAPCD SHALL BE CONTACTED TO DISCUSS MITIGATION MEASURES AND IMPLEMENT MEASURES FROM TABLE 6-4 OF THE GUIDE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACTS.
- UTILITIES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF SAN JOAQUIN'S STANDARD SPECIFICATIONS, THE OAKWOOD LAKE WATER DISTRICT AND THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
  - THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 9, SECTION 6705, 6706, AND 6707 OF THE STATE LABOR CODE.
  - THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DETAILED PLAN SHOWING THE DESIGN OF SHORINGS, BRACINGS, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLANS SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.
  - ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SAN JOAQUIN COUNTY STANDARD DETAILS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING, OR JETTING SHALL BE PERMITTED UNLESS APPROVED BY THE OAKWOOD LAKE WATER DISTRICT ENGINEER IN WRITING. REFER TO THE P.V.C. SANITARY SEWER TRENCH SECTION ON SHEET 4 FOR ADDITIONAL REQUIREMENTS FOR THE EMBEDMENT ZONE BACKFILL.
  - ALL PLASTIC PIPES INSTALLED SHALL HAVE TRACE WIRE INSTALLED AS PER THE SAN JOAQUIN COUNTY STANDARDS.
- STORM DRAIN**
- R.C.P. STORM DRAIN LINES AS SHOWN ON THE PLANS SHALL BE CLASS III OR HIGHER REINFORCED CONCRETE PIPE. USE RUBBER GASKETED JOINTS CONFORMING TO THE REQUIREMENTS OF ASTH DESIGNATIONS C-16 AND C-443 AND CHAPTER 3 OF THE COUNTY STANDARD SPECIFICATIONS. WHERE THE PLANS SHOW R.C.P. STORM DRAINS, 18 INCHES OR SMALLER IN DIAMETER, THE CONTRACTOR MAY USE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTH D-3034, SDR 35, WITH RUBBER SEALINGS RINGS MEETING ASTH D-3212 "JOINTS FOR DRAINS AND SEWER PIPES USING FLEXIBLE ELASTOMERIC SEALS" AS PER THE SAN JOAQUIN COUNTY STANDARDS. BACKFILL OF P.V.C. STORM DRAIN LINES SHALL BE IN ACCORDANCE WITH THE BACKFILL REQUIREMENTS OF THE P.V.C. SANITARY SEWER LINES, AS PER THE DETAIL ON SHEET 4 OF THESE PLANS. UNLESS NOTED ALL STORM DRAIN MANHOLES ARE TYPE I (STANDARD DETAIL GN-57) AND ALL CURB INLETS ARE TYPE I (STANDARD DETAIL D-13). SADDLE-TYPE MANHOLE (STANDARD DETAIL D-18) SHALL BE USED FOR ALL PIPES GREATER THAN 36" IN DIAMETER.
  - ALL ON-SITE STORM DRAIN INLETS MUST BE LABELED "NO DUMPING - DRAINS TO DELTA" USING AN APPROVED METHOD.
  - THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TESTING OF STORM DRAIN FACILITIES.
- WATER**
- WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM SEWER MAINS. CROSSINGS SHALL MEET STATE HEALTH STANDARDS. SEWER LINE NEEDS TO BE BELOW WATER LINE.

- THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TESTING AND DISINFECTION OF WATER LINES IN CONFORMANCE WITH THE REQUIREMENTS OF THE OAKWOOD LAKE WATER DISTRICT PRIOR TO FINAL ACCEPTANCE. ALL WATER LINES SHALL BE PRESSURE TESTED, DISINFECTED, FLUSHED AND TESTED FOR BACTERIA IN CONFORMANCE WITH SECTION 4, OF THE SAN JOAQUIN COUNTY STANDARDS PRIOR TO FINAL ACCEPTANCE BY THE WATER DISTRICT.
  - ACTUAL CONNECTIONS TO EXISTING WATER DISTRICT WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF STERILIZATION AND TESTING OF WATER MAINS. ALL EXISTING WATER VALVES ARE TO BE OPERATED UNDER THE DIRECTION OF THE WATER DISTRICT ONLY.
  - WATER SERVICES SHALL BE 1" DIAMETER PLASTIC PIPE AS PER SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND STANDARD DETAIL GN-10.
  - THE LOCATION OF WATER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "M" STAMPED ON THE BACK OF SIDEWALK OR ON THE TOP OF CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE MARKS IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "M" FOR ALL WATER SERVICES, PRIOR TO PLACING ANY SIDEWALK OR CURB AND GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS, AND WATER SERVICES BEFORE POURING THE CURB, AND FURNISH TO THE SAN JOAQUIN COUNTY FIELD INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "M" TO BE STAMPED IN HIS WORK.
  - FIRE HYDRANTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND STANDARD DETAIL GN-118. HYDRANTS SHALL BE LONG BEACH 425 OR EQUAL WITH A 1 ~ 4 1/2" AND 1 ~ 2 1/2" OUTLET.
- SANITARY SEWER**
- GRAVITY SEWER PIPE: P.V.C. PIPE AS SHOWN ON THE PLANS SHALL BE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTH D-3034, SDR 35, WITH RUBBER SEALING RINGS MEETING ASTH D-3212 "JOINTS FOR DRAINS AND SEWER PIPES USING FLEXIBLE ELASTOMERIC SEALS" OR AN APPROVED EQUAL.
  - SEWER LATERALS SHALL BE 4" IN DIAMETER, AND SHALL INCLUDE A CLEAN-OUT AT 1 FOOT MINIMUM TO 2 FEET MAXIMUM BEHIND THE BACK OF SIDEWALK. SEE PLANS FOR LOCATIONS AND DRAWING NO. S-7A.
  - THE LOCATION OF SEWER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "S" STAMPED ON THE BACK OF SIDEWALK OR ON THE TOP OF CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE MARKS IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "S" FOR ALL SEWER SERVICES, PRIOR TO PLACING ANY SIDEWALK OR CURB AND GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS, AND SEWER LATERALS BEFORE POURING THE CURB, AND FURNISH TO THE SAN JOAQUIN COUNTY FIELD INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "S" TO BE STAMPED IN HIS WORK.
  - SEWER FORCE MAINS 4" AND LARGER SHALL BE POLYVINYL CHLORIDE CLASS 200 CONFORMING TO ANMA C-900. DUCTILE IRON FITTINGS INCLUDING TEES, CROSSSES, CAPS, ETC. SHALL BE FLANGE, MECHANICAL JOINT OR COMBINATION THEREOF. MECHANICAL JOINT COUPLINGS SHALL CONFORM TO ANSI A21.10 (ANMA C110-77). ALL COUPLINGS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH ANMA C104-80, AND SHALL BE FURNISHED WITH RUBBER RING SEAL JOINTS DESIGNED TO BE USED WITH CLASS 200 P.V.C. PIPE, ANMA C-900.
  - SEWER FORCE MAIN LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM FINISH GRADE.
  - SEWER FORCE MAINS SHALL BE INSTALLED WITH THRUST BLOCKS IN ACCORDANCE WITH THE SAN JOAQUIN COUNTY STANDARDS, DRAWING NO. GN-14.
- EROSION CONTROL NOTES**
- ALL WORK TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF SAN JOAQUIN STANDARDS AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (EMM) MANUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SUBCONTRACTORS, AND SUPPLIERS ARE AWARE OF, AND IMPLEMENT ALL STORM WATER QUALITY MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTIONS BMPs WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS AND/OR A PROJECT STOP ORDER.
  - THIS EROSION CONTROL PLAN HAS BEEN PREPARED AS AN EXHIBIT TO THE STORM WATER POLLUTION PREVENTION PLAN (S.M.P.P.P.) FOR THE OAKWOOD LAKE SUBDIVISION, AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL SEDIMENT DURING THE RAINY SEASON AFTER ROUGH GRADING HAS BEEN COMPLETED, AND TO AVOID EROSION PRIOR TO OCTOBER 15TH THROUGH APRIL 15TH OF ANY YEAR THAT GRADING OPERATIONS HAVE LEFT AREAS UNPROTECTED FROM EROSION. NO GRADING WILL OCCUR BETWEEN OCTOBER 15TH AND APRIL 15TH, UNLESS AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS. DESIGN OF THESE FACILITIES MUST BE APPROVED OR UPDATED EACH YEAR PRIOR TO SEPTEMBER 30, AND SHALL BE SIGNED BY THE COUNTY ENGINEER. DAILY MAINTENANCE OF THESE FACILITIES SHALL BE MONITORED AND INSPECTED BY THE PROJECT COORDINATOR.
  - DURING THE RAINY SEASON ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
  - CONSTRUCTION ENTRANCES CONSISTING OF AGGREGATE OR GEOTEXTILE FABRIC, AS PER THE DETAIL, SHALL BE PROVIDED AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED ROADS.
  - ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. REVISIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
  - BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
  - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE COMPLIED WITH.
  - PRIOR TO THE COMMENCEMENT OF ANY CLEARINGS, GRADINGS OR EXCAVATION, THE CONTRACTOR/DEVELOPER SHALL PROVIDE EVIDENCE THAT A NOTICE OF INTENT (NOI) HAS BEEN SUBMITTED TO THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD. A COPY OF THE SWPPP SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- SILT FENCES**
- IF POSSIBLE, SILT FENCE FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED AT A SUPPORT POST, WITH A MINIMUM OF 6" OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
  - SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
  - FILTER FABRIC SHALL BE NO. 2125 AS MANUFACTURED BY AMOCO CONSTRUCTION FABRICS, OR APPROVED EQUAL.
- SEEDING**
- SEED AND MULCH SHALL BE APPLIED BY SEPTEMBER 15TH TO ALL DISTURBED SLOPES STEEPER THAN 2% AND HIGHER THAN 3 FEET, AND TO ALL SLOPES AND FILL SLOPES WITHIN OR ADJACENT TO PUBLIC RIGHT-OF-WAYS, OR AS DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
  - SEED AND FERTILIZER WILL BE APPLIED HYDRAULICALLY OR BY HAND AT THE RATES SPECIFIED BELOW. ON SLOPES STRAIN SHALL BE APPLIED BY BLOWER OR BY HAND AND ANCHORED IN PLACE BY PUNCHING.
- | ITEM                                    | POUNDS PER ACRE |
|---|-----------------|
| ZORRO ANNUAL RESCUE                     | 10 LBS.         |
| ROSE CLOVER                             | 0 LBS.          |
| HYDROMULCH FIBER                        | 1500 LBS.       |
| 16-20-0 FERTILIZER (AMMONIUM PHOSPHATE) | 300 LBS.        |
| TACKLIFIER                              | 80 LBS.         |
- IF PLANT GROWTH IS INADEQUATE FOR EROSION CONTROL, OVERSEED USING HALF THE RATE OF THE ORIGINAL APPLICATION. STOP OF WORK THE GROWTH IS OVER FOR DAMAGE. REPLANT USING THE ORIGINAL SPECIFICATIONS. THIS SHOULD BE DONE 14 TO 21 DAYS AFTER THE INITIAL PLANTING.
- ALTERNATIVE EROSION CONTROL TECHNIQUES MUST BE USED IN THE EVENT ADEQUATE VEGETATION IS NOT ESTABLISHED PRIOR TO THE FIRST ANTICIPATED SIGNIFICANT RAIN EVENT OF THE SEASON.
- MASH OUT AREA**
- TEMPORARY CONCRETE MASH OUT AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS. OPEN DRAINAGE FACILITIES OR WATERCOURSES. TEMPORARY CONCRETE MASHOUT AREAS SHALL BE CONSTRUCTED WITH A PIT OR BERMED AREA AND BE MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE MASTE GENERATED BY MASHOUT OPERATIONS. MASH OUT AREAS SHALL BE CONSTRUCTED WITH A 10 FOOT MINIMUM WIDTH.
  - ONCE CONCRETE MASTES ARE MASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP, REMOVED, AND DISPOSED OF PER BMP 11-5, "SOLID WASTE MANAGEMENT", AND IN CONFORMANCE WITH THE PROVISIONS IN THE STATE STANDARD SPECIFICATIONS, SECTION 15-3.02, "REMOVAL METHODS". DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
  - TEMPORARY MASH OUT AREAS SHALL BE LINED WITH POLYETHYLENE PLASTIC LINING MATERIAL THAT IS A MINIMUM OF 60 MIL THICKNESS, FREE FROM HOLES, TEARS OR OTHER DEFECTS THAT WOULD COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
  - WHEN TEMPORARY MASH OUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF AS NOTED ABOVE. MATERIALS USED TO CONSTRUCT TEMPORARY MASH OUT FACILITIES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN ACCORDANCE WITH STATE STANDARD SPECIFICATIONS, SECTION 7-1.13.
- NOTICE OF INTENT**
- THE STATE WATER RESOURCES CONTROL BOARD HAS RECEIVED AND PROCESSED THE NOTICE OF INTENT TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED CONSTRUCTION ACTIVITY. THE NOID IDENTIFICATION NUMBER IS 55361330837. FOR ANY COMMUNICATIONS REGARDING THIS PERMIT.

BY	
REVISION	DATE
DESCRIPTION	

TRACT NO. 947B  
SPECIFICATIONS  
OAKWOOD LAKE SUBDIVISION, UNIT 5  
SAN JOAQUIN COUNTY, CALIFORNIA

ASSOCIATED ENGINEERING, INC.  
Surveying • Design • Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875

RECORD DRAWING  
No. 61619  
Exp. 6/30/07  
DATE: SEPT. 21, 2005  
SCALE: 1"=500'  
DWS: 246H-CVR  
CHECKED: KN  
JOB #: 246H-04

DRAWN BY: J.S.H.  
DATE: SEPT. 21, 2005  
SCALE: 1"=500'  
DWS: 246H-CVR  
CHECKED: KN  
JOB #: 246H-04

SHEET 2 OF 30

RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

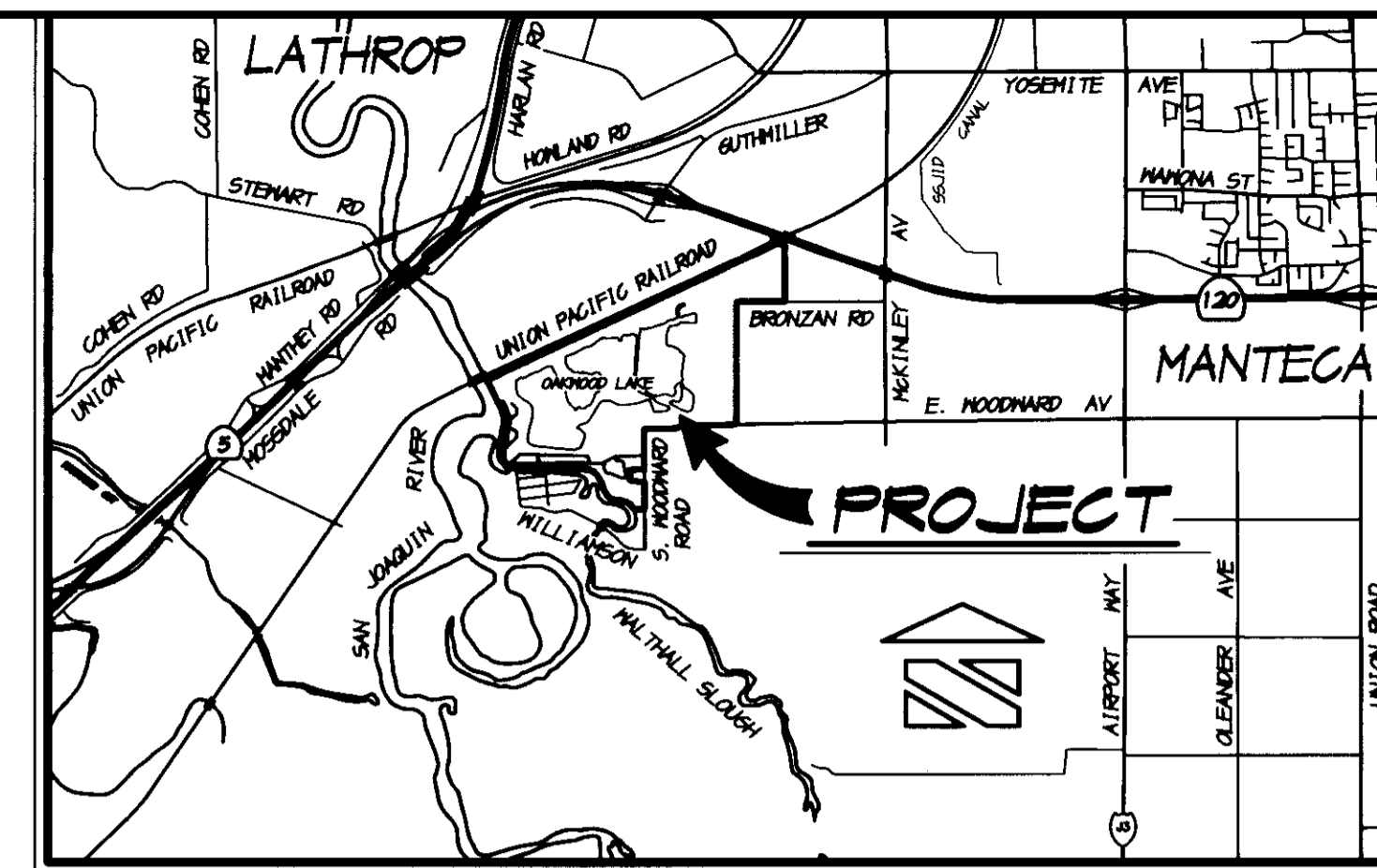
REGISTERED PROFESSIONAL ENGINEER  
No. 61619  
Exp. 6/30/07  
CIVIL  
STATE OF CALIFORNIA

# STREET IMPROVEMENT PLANS

FOR

## OAKWOOD LAKE SUBDIVISION, UNIT 5

### TRACT NO. 3478



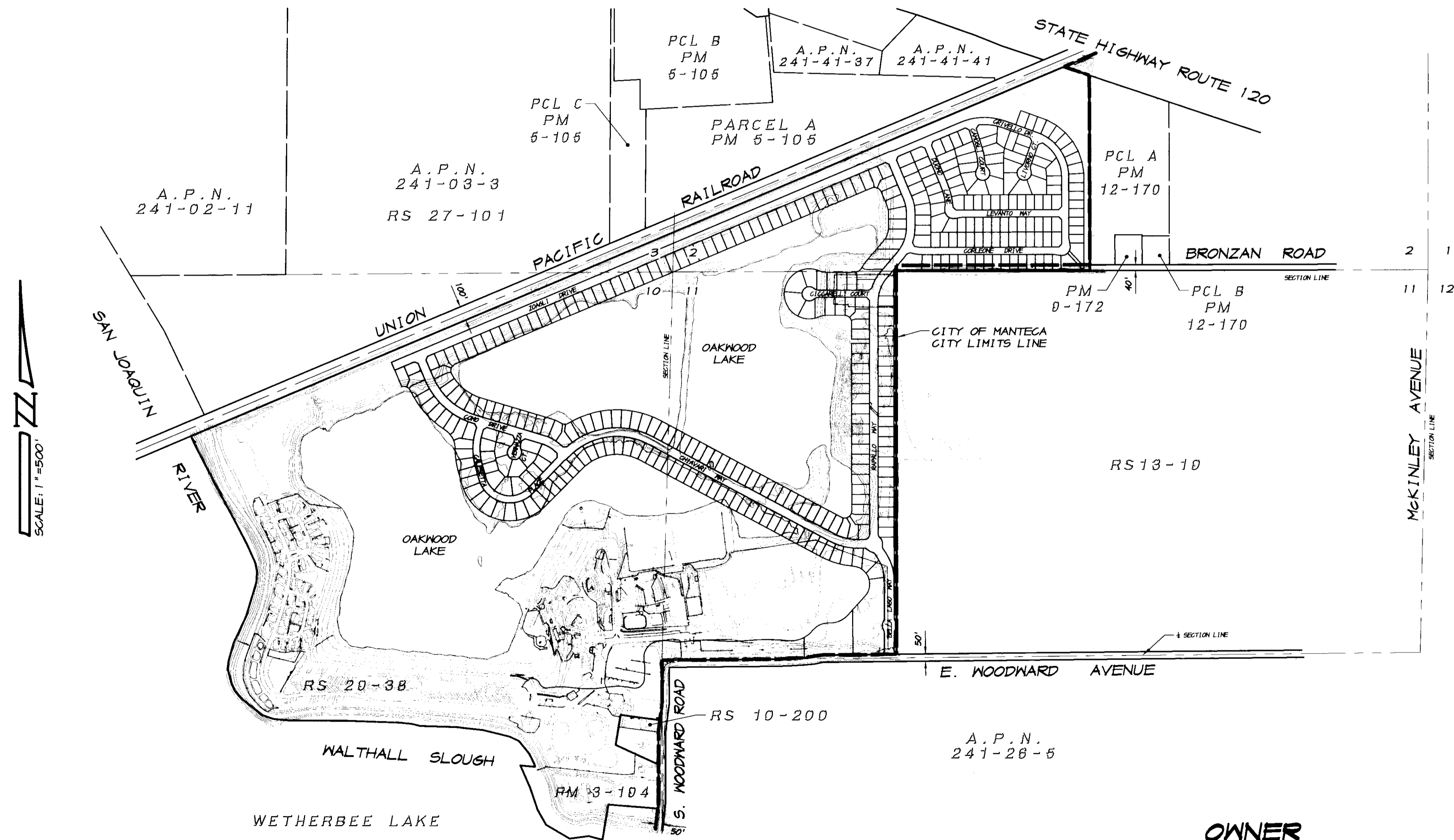
VICINITY MAP  
NO SCALE

SUBDIVISIONS OF SAN JOAQUIN COUNTY  
 MAJOR SUBDIVISION APPLICATION NO. PA-02-98  
 874 EAST WOODWARD AVENUE, MANTECA  
 BEING A DIVISION OF A PORTION OF SECTIONS 10 & 11,  
 TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN

## SAN JOAQUIN COUNTY CALIFORNIA

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2	SPECIFICATIONS
3	STREET SECTIONS AND DETAILS
4 THRU 7	SANITARY SEWER & STORM DRAIN PLAN
8 THRU 11	WATER PLAN
12 THRU 15	STRIPING & SIGNAGE PLAN
PLAN & PROFILE SHEETS	
16	ZOAGLI DRIVE, STA. 50+00 TO STA. 55+39.66
17	COMO DRIVE, STA. 1+00 TO STA. 8+00
18	COMO DRIVE, STA. 8+00 TO STA. 14+03
19	VERNAZZA COURT & LAKE CONNECTOR
20	CALESETTA PLACE, STA. 1+00 TO STA. 7+50
21	CALESETTA PLACE, STA. 7+50 TO STA. 12+69.90 & CHIAVARI WAY, STA. 12+69.90 TO STA. 15+00
22	CHIAVARI WAY, STA. 15+00 TO STA. 25+00
23	CHIAVARI WAY, STA. 25+00 TO STA. 34+56
24	STORM DRAIN OUTFALL LINES "A" & "B"
25	STORM DRAIN OUTFALL LINES "C" & "D"
26 THRU 29	EROSION CONTROL PLAN
30	EROSION CONTROL DETAILS



PROJECT LAYOUT MAP  
SCALE: 1"=500'

**OWNER**  
 BECK DEVELOPMENT  
 3114 WEST HAMMER LANE  
 STOCKTON, CALIFORNIA 95209  
 PHONE (209) 957-0331  
 ATTN.: KEN FRITZ

**BENCHMARK**  
 CITY OF MANTECA BENCHMARK NO. 71, 2" BRASS CAP  
 LOCATED 25 FEET ± NORTH OF THE NORTHEAST CORNER  
 OF SECTION 11, TOWNSHIP 2 SOUTH, RANGE 6 EAST,  
 MOUNT DIABLO MERIDIAN, AT THE INTERSECTION OF  
 MCKINLEY AVENUE AND BRONZAN ROAD.  
 ELEVATION = 16.703, U.S.G.S. DATUM

**RECORD DRAWING**  
 Corrections By: \_\_\_\_\_  
 No Changes By: \_\_\_\_\_  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify  
 All Information By Inspecting The Site Or Work

CALL USA TOLL FREE  
 800-227-2600

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



LATHROP - MANTECA FIRE DISTRICT	
BY: <u>[Signature]</u>	DATE: 9-28-05
FIRE MARSHAL	
GEOTECHNICAL REPORT	
THESE IMPROVEMENT PLANS CONFORM TO THE APPROVED GEOTECHNICAL REPORT FOR THE OAKWOOD LAKE DEVELOPMENT LOCATED IN SAN JOAQUIN COUNTY, CALIFORNIA.	
<u>[Signature]</u>	9-28-05
KLEINFELDER, INC.	
APPROVED BY THE DISTRICT ENGINEER OF THE OAKWOOD LAKE WATER DISTRICT, MANTECA, CALIFORNIA.	
DATE: 9-28-05	
BY: <u>[Signature]</u>	MICHAEL GILTON, R.C.E. 25853
COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED: <u>[Signature]</u>	DATE: 10/17/05
SENIOR CIVIL ENGINEER	
RCE NO.: 46533	EXP. DATE: 6/30/07
APPROVED: <u>[Signature]</u>	DATE: 10/26/05
DIRECTOR OF PUBLIC WORKS	

ASSOCIATED  
 ENGINEERING, INC.  
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 4206 TECHNOLOGY DRIVE  
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TRACT NO. 3478  
 VICINITY MAP & INDEX  
 OAKWOOD LAKE SUBDIVISION, UNIT 5  
 SAN JOAQUIN COUNTY CALIFORNIA

[Signature]  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

DRAWN BY: J.S.H.  
 DATE: SEPT. 27, 2005  
 SCALE: 1"=500'  
 DWG: 296H-CVR  
 CHECKED: KN  
 JOB #: 296H-04  
 SHEET  
 1  
 OF  
 30

SU 4046