

GENERAL NOTES

1. SANITARY SEWER SYSTEM
2. WATER SYSTEM
3. GAS SYSTEM
4. TELEPHONE SYSTEM
5. CABLE TELEVISION
6. ELECTRIC SYSTEM

7. WATER SYSTEM: POLYETHYLENE

8. CUYAMA COMMUNITY SERVICES DISTRICT
9. CUYAMA COMMUNITY SERVICES DISTRICT
10. SOUTHERN CALIFORNIA GAS COMPANY
11. TO BE DETERMINED
12. TO BE DETERMINED
13. PACIFIC GAS & ELECTRIC

WATER SYSTEM: POLYVINYL CHLORIDE PRESSURE PIPE SHALL BE USED AND SHALL
CONFORM TO AMERICAN WATER WORKS ASSOCIATION C-900. PIPE SHALL BE
CLASS 150, OR 18, AND WITHIN A WORKING PRESSURE OF AT LEAST 150 PSI.
AND MAINS SHALL HAVE AT LEAST THREE FEET OF COVER. ALL VALVES SHALL
BE IRON BODY RESILIENT-SEATED GATE VALVES, ANWWA C-509. FIRE HYDRANTS
SHALL BE CLOW #3, CLOW 860 OR APPROVED EQUAL.

MANHOLE TO MANHOLE. 4" P.V.C. SANITARY SEWER LATERALS SHALL BE CONSTRUCTED TO
MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
CONSTRUCT MANHOLE SIZES PER A.P.W.A. STANDARD. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18"
UPSTREAM. USE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
LATERAL SEWER PLUS BUILDING. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
9-27-01(1) OF THE CODE. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
LATERAL SEWER PLUS BUILDING. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
STREET SEWERS PER A.P.W.A. STANDARD. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
AND PULLING A WAY. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
MANHOLE TO MANHOLE. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"
MANHOLE TO MANHOLE. PLUMBING SHALL BE 18" MINIMUM GRADE SHALL BE 18" MINIMUM GRADE SHALL BE 18"

BENCHMARK: THE BENCHMARK FOR THIS PROJECT IS THE TOP OF A SET 5/8" REBAR LOCATED NEAR THE NORTH END OF BELL DRIVE, THE ASSUMED ELEVATION BEING 501.00.

NOSS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS PROJECT IS THE LINE BETWEEN
NO FOUND 6"x6" CONCRETE HIGHWAY MONUMENTS ON THE SOUTH SIDE OF HWY 166,
THE BEARING BEING N51°28'30"W AS SHOWN ON 15 MB 287

IN THE EVENT THAT ARCHAEOLOGICAL OR PALEONTOLOGICAL REMAINS OR HISTORICAL ARTIFACTS ARE UNCOVERED DURING CONSTRUCTION ON ANY SITE, EXCAVATION SHALL BE TEMPORARILY SUSPENDED AND REDIRECTED UNTIL A COUNTY-QUALIFIED ARCHAEOLOGIST OR, AS APPLICABLE, A NATIVE AMERICAN REPRESENTATIVE OR HISTORIAN, ARE RETAINED BY THE APPLICANT TO EVALUATE THE FIND.

IN THE EVENT BURIALS ARE ENCOUNTERED, THEY WILL BE TREATED ACCORDING TO PROCEDURES SET FORTH IN THE ARCHAEOLOGICAL RESOURCE PROTECTION ACT AND IMPLEMENTING REGULATION (43 CFR PART 7), CEQA APPENDIX K, AND THE PUBLIC RESOURCES CODE SECTION 5097.98. THESE, CALIFORNIA STATE AND LOCAL PROCEDURES REQUIRE NOTIFICATION OF THE LOCAL CORONER TO DETERMINE THE ORIGIN OF THE REMAINS. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, PROCEDURES ESTABLISHED WILL BE FOLLOWED.

IF PUBLIC RESOURCES CODE SECTION 5097.98 REGARDING NATIVE AMERICAN CONSULTATION
THE ABOVE MEASURES SHALL BE APPLIED CONSISTENT WITH ARCHAEOLOGICAL GUIDELINES
OF SANTA BARBARA COUNTY; THE STATE OFFICE OF HISTORIC PRESERVATION, AND THE
STATE OF CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION.

ALL DESIGN, MATERIALS AND CONSTRUCTION WORK SHALL CONFORM WITH THE COUNTY ENGINEERING DESIGN STANDARDS MANUAL AND THE PUBLIC WORKS DEPARTMENT POLICY LETTER TITLED "REVISED" DESIGN AND CONSTRUCTION STANDARDS, DATED 12/8/97.

ALL TRENCHING AND BACKFILL SHALL BE PER THE LATEST COUNTY APPROVED STANDARDS. A 30" COVER FOR CONSTANT PRESSURE LINES SHALL BE COMPACTED BACKFILL AND WHEN TRENCH IS LOCATED IN SHOULDERS AND (1) SACK SLURRY CEMENT BACKFILL WHEN TRENCH IS LOCATED UNDER PAVEMENT. INSTALL WITH SAND SHADING SIX INCHES (6") MAXIMUM ABOVE PIPE(S).

LEGEND

PROJECT BOUNDARY
CENTERLINE
PROPERTY LINE
CURB LINE
EXIST. E.P.
E.P./L.P. OF GUTTER
STORM DRAIN
EXIST. STORM DRAIN
SEWER MAIN
EXIST. SEWER MAIN
WATER MAIN
EXIST. WATER MAIN
EASEMENT LINE
WOOD FENCE
MASONRY WALL
2:1 SLOPE

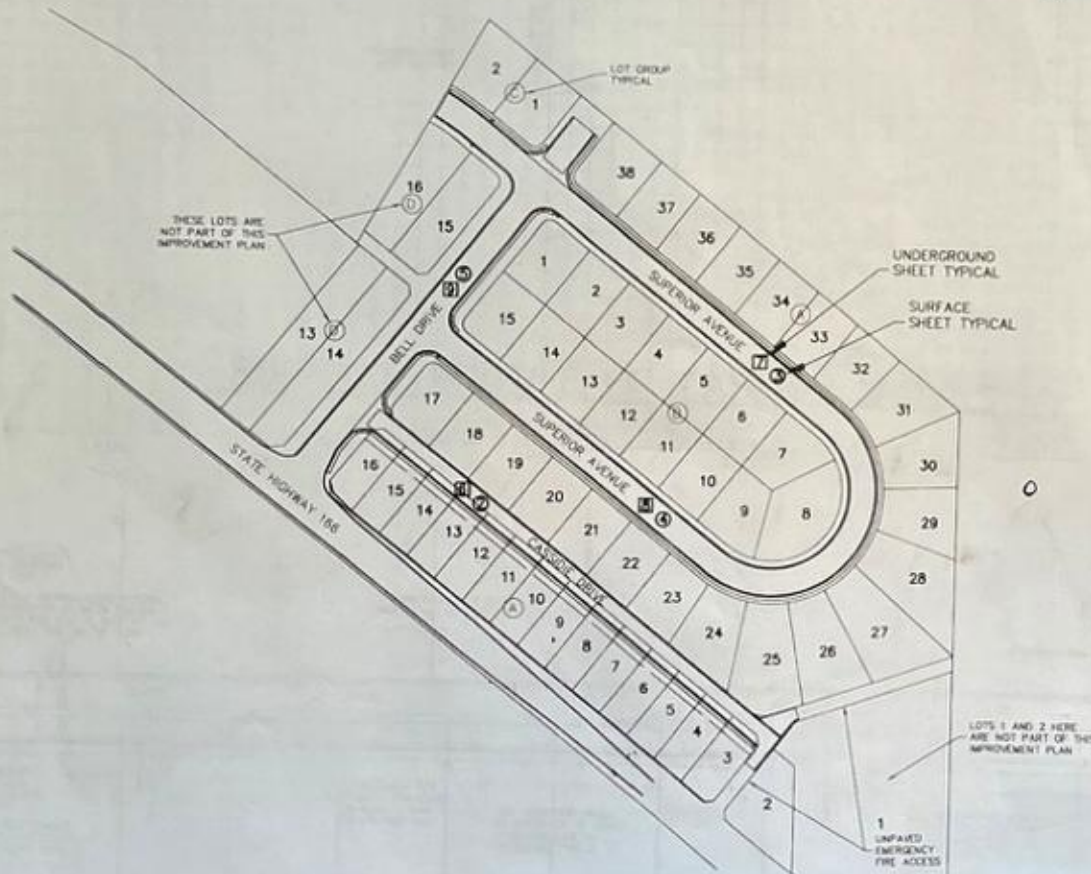
SAN SEWER MANHOLE
EXIST SEWER MANHOLE
STORM DRAIN MANHOLE
EXIST S.D. MANHOLE
WATER VALVE
EXIST WATER VALVE
STREET LIGHT
EXIST STREET LIGHT
FIRE HYDRANT
EXIST FIRE HYDRANT
CATCH BASIN
SEWER LATERAL
SEWER CLEAN OUT

ABBREVIATIONS
TOP OF CURB
FLOWLINE
EDGE OF PAVEMENT
ASPHALT CONCRETE
HIGH POINT
LOW POINT
FINISHED GRADE
BACK OF WALK
TOP OF WALL
TOP OF FOOTING
GRADE BREAK
DRAIN INLET

YC
 AL
 EF
 AC
 HP
 LP
 FD
 BK
 TO
 TO
 GB
 DI

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OF THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SANTA BARBARA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: BETHEL ENGINEERING
ADDRESS: 2624 MAPLE PARK DRIVE
TELEPHONE: 800/934-5767
11/9/07
RUSSELL GARRISON
PROFESSIONAL REGISTRATION NUMBER
R.C.E. 59987 DATE OF EXPIRATION: 8/30/08
DISCIPLINE: CIVIL ENGINEER



PROJECT MAP

INDEX	
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
CASSIDIE DRIVE (SURFACE)	2
SUPERIOR AVENUE SOUTH (SURFACE)	3
SUPERIOR AVENUE NORTH (SURFACE)	4
BELL DRIVE (SURFACE)	5
CASSIDIE DRIVE (UNDERGROUND)	6
SUPERIOR AVENUE SOUTH (UNDERGROUND)	7
SUPERIOR AVENUE NORTH (UNDERGROUND)	8
BELL DRIVE (UNDERGROUND)	9
DETAILS	10

THE GAS LINES TO BE PROVIDED FOR THIS PROJECT ARE NOT SHOWN ON THIS PLAN. GAS LINES SHALL BE CONSTRUCTED PER PLANS BY THE GAS COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE GAS COMPANY, AND OBTAINING FINAL PLANS.

NOTE: ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY IS UNDER THE JURISDICTIONAL AUTHORITY OF THE COUNTY OF SANTA BARBARA, PUBLIC WORKS DEPARTMENT. THE REQUIREMENTS OF THE ROAD ENFORCEMENT PROGRAM ARE A PART OF THIS DOCUMENT AND INCORPORATED HEREIN BY THIS REFERENCE. A QUALITY AUTHORIZED REPRESENTATIVE, WHOSE DECISION SHALL BE FINAL, SHALL RESOLVE ANY CONFLICTING REQUIREMENTS.

NOTE: ELECTRIC UTILITIES SHOWN ON THESE PLANS ARE: SCHEMATIC AND SUBJECT TO CHANGE BASED UPON FINAL PLAN ISSUANCE FROM THE INDIVIDUAL UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PGE, AND OBTAINING FINAL PLAN PRIOR TO CONSTRUCTION. ADDITIONAL EASEMENTS MAY BE REQUIRED.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-472-4133.

IN VERZINS

CONSTRUCTION STARTED
CONSTRUCTION COMPLETE
AS BUILT

REVIEWED *[Signature]* 12/17/07
 JAMES A. JAMES, INC. PLASTIC WORKS DA

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

REVIEWED
SANTA BARBARA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
BY *Don R. [Signature]* 1-2-01

DESIGN BY:	J.S.W.
DRAWN BY:	J.S.W.

APPROVAL RECOMMENDED BY:	
--------------------------	--

DATE	
SCALE	PROJECT NO.
AS SHOWN	0542

IMPROVEMENT PLANS
FOR
RANCHOIL SUBDIVISION



BETHEL
engineering

BETH
engineers

2024 Airport Drive
Santa Maria, California 93455
(805) 934-5767


 DATE 11/1
 ROBERT J. LIPPMAN RCL 59987

PC5 8/17/07
PC4 8/16/07
PC3 8/14/07
PC2 1/22/07
PC1 9/28/06
8/12/06
0042 BASE DWS

VICINITY MAP

N.T.S.

HIGHWAY 166 POSTMILE S.B. 62.6

PC5 9/17/07
PC4 8/6/07
PC3 6/14/07
PC2 1/22/07
PC1 9/26/06
6/12/06
0542 BASE.DWG

REVIEWED
SANTABARBARACOUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
BY Don P. Riddle 11-26-07

FIRE DEPARTMENT APPROVAL <u>Russell J. Garrison</u>	DATE <u>1-14-08</u>
PUBLIC UTILITY SYSTEM APPROVED BY: <u>W. S. Wilson</u>	DATE <u>1/26/08</u>
ELECTRICAL SYSTEM APPROVED BY:	DATE
GAS SYSTEM APPROVED BY:	DATE
FLOOD CONTROL APPROVAL:	DATE



BETHEL
engineering

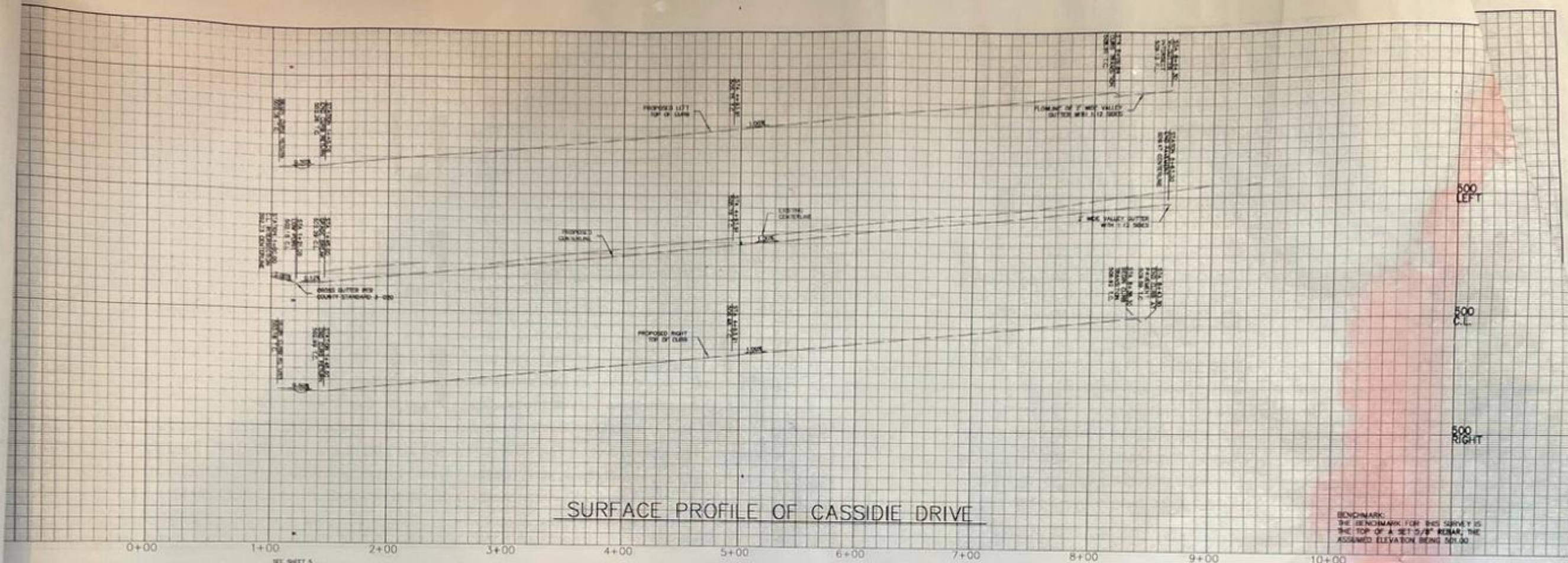
2624 Airpark Drive
Santa Maria, California 93455
(805) 934-5767

Russell J. Garrison DATE 11/19/07
RCE 59987

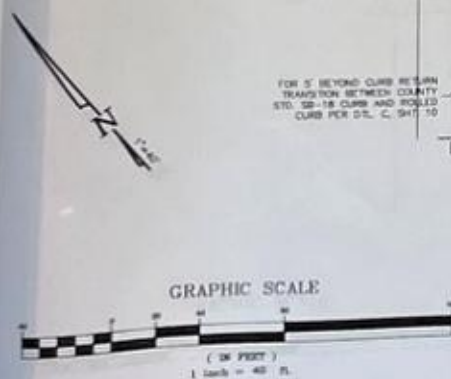
DESIGN BY: J.S.W.	CHECKED BY: R.J.G.	SCALE	PROJECT NO.
DRAWN BY: J.S.W.	APPROVAL RECOMMENDED BY:	AS SHOWN	0542

IMPROVEMENT PLANS
FOR
RANCHOIL SUBDIVISION

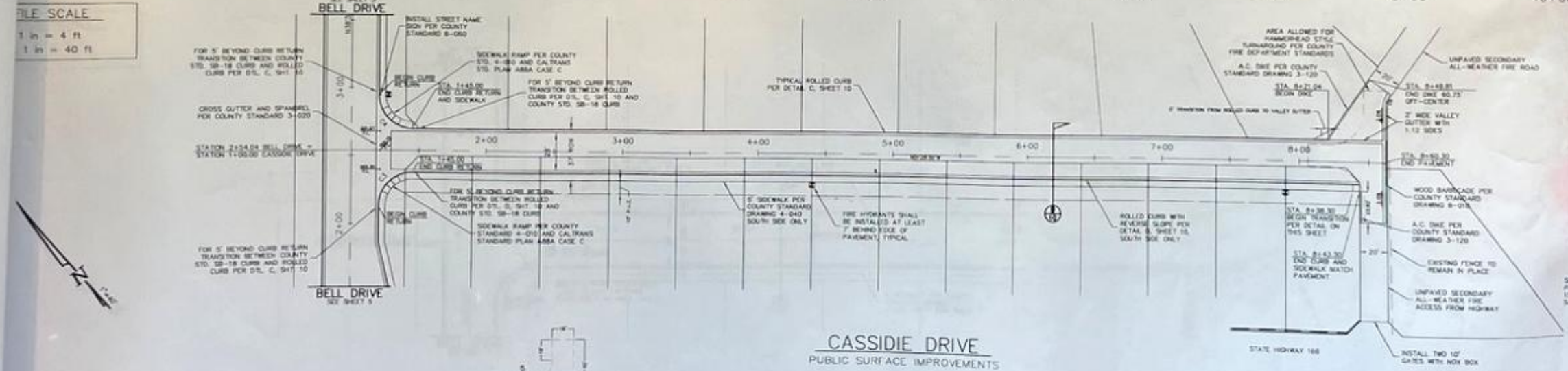
SHEET NO.
1 OF 10
FILE NO.



FILE SCALE
1 in = 4 ft
1 in = 40 ft



CURVE	LENGTH	RADIUS
C3	39.27	25.00
C4	39.27	25.00
C6	9.44	16.00



NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

REVISIONS	CONSTRUCTION STARTED	REVIEW
	CONSTRUCTION COMPLETED	
	AS BUILT	

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

DESIGN BY	CHECKED BY	SCALE	PROJECT NO.
AS R	R.J.B.	AS SHOWN	0042
DRAWN BY	APPROVAL RECOMMENDED BY		
AS R			

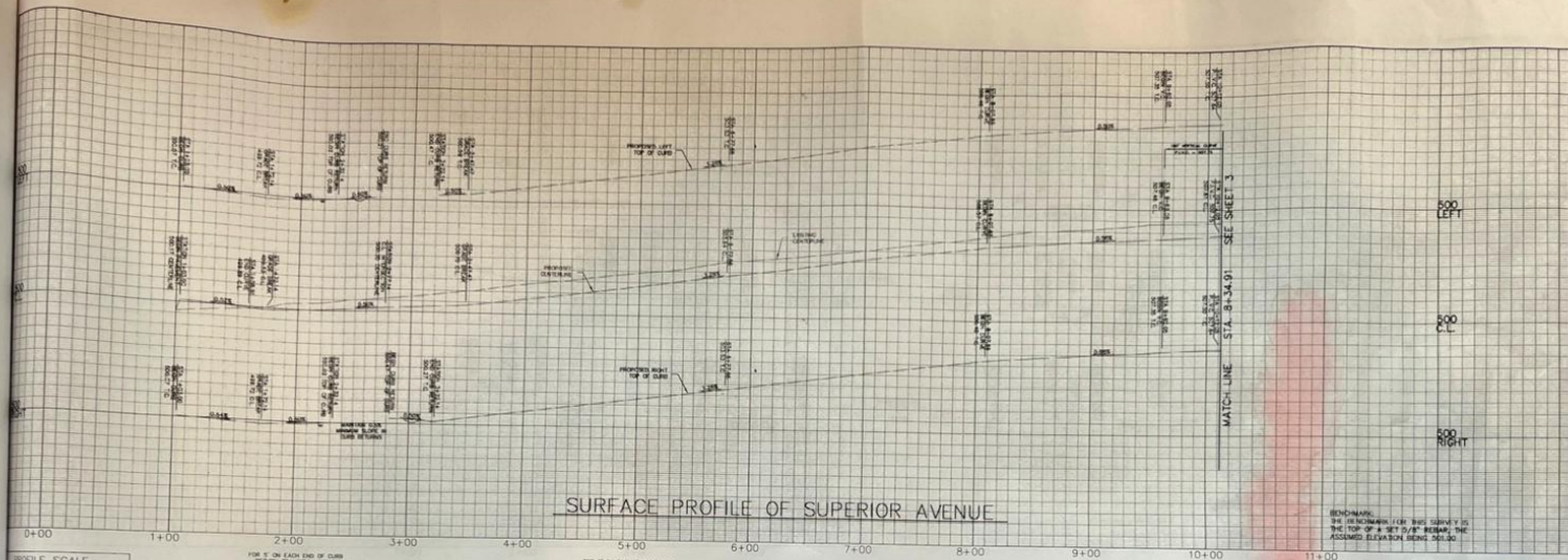


BETHEL
engineering

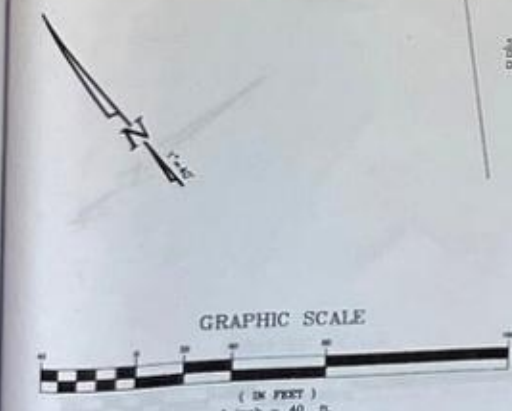
2824 Argonaut Drive
Santa Monica, California 90405
(805) 834-5767

CASSIDIE DRIVE
SURFACE
RANCHOLL SUBDIVISION

SHEET NO.
2 OF 10
FILE NO.



PROFILE SCALE
VERT. 1 in. = 4 ft
HORIZ. 1 in. = 40 ft



CURVE	LENGTH	RADIUS
C1	408.41	130.00
C2	400.00	58.91
C10	42.41	27.00
C11	42.41	27.00
C12	42.41	27.00
C13	42.41	27.00
C14	351.86	112.00
C15	464.96	148.00
C16	54.26	382.00
C17	59.56	418.00

SUPERIOR AVENUE NORTH
PUBLIC SURFACE IMPROVEMENTS

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

DESIGN BY:	J.S.
DRAWN BY:	J.S.

CHECKED BY	R.J.G.
APPROVAL RECOMMENDED BY	

	DATE
	SCALE
	AS SHOWN

	PROJECT NO.
	0542

SUPERIOR

OR AVEN
SURFACE

UUE NOR

DATE	10/1/87
SHEET NO.	4

11/19/07

PC3: 8/17/07
PC4: 8/18/07
PC3: 8/14/07
PC2: 1/22/07
PC1: 8/28/06
8/12/06
8/12/06



BETHEL
engineering

2624 Airport Drive
Santa Maria, California 93404
(805) 934-3787

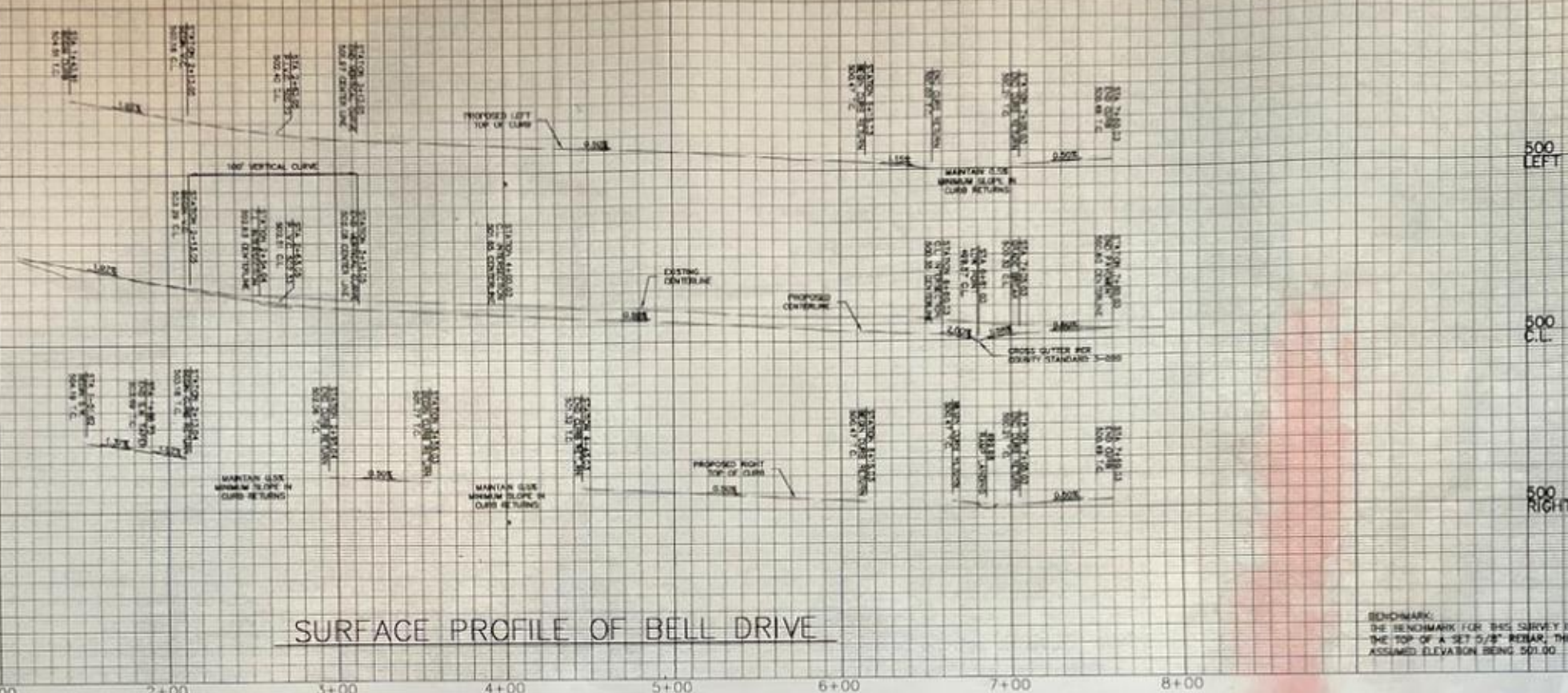
Reed A.

AVENUE NORTH

SURFACE

4 OF 10

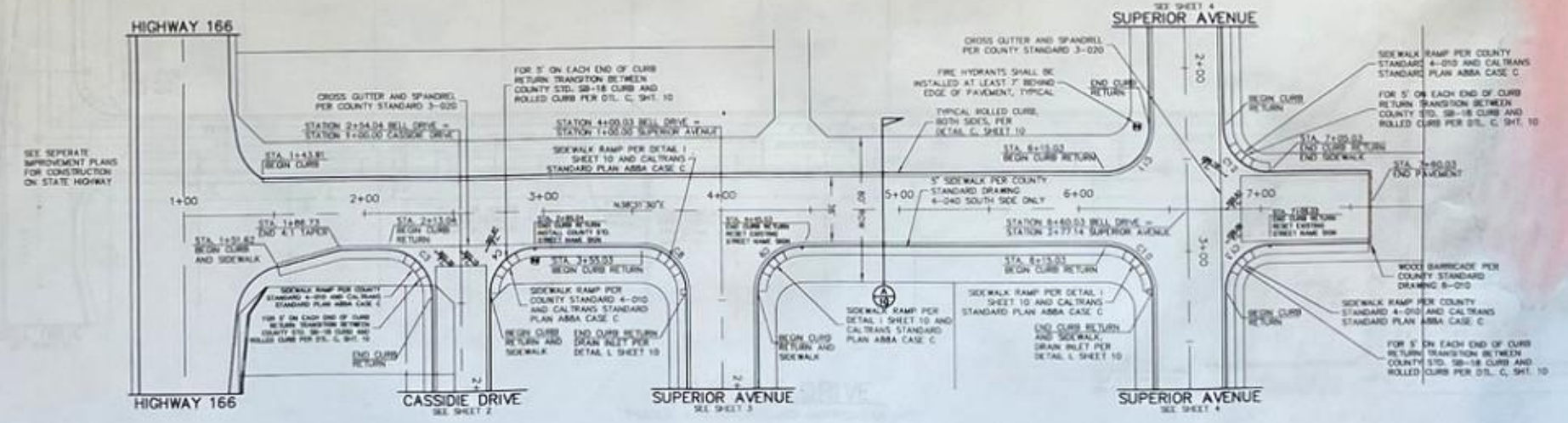
10



SURFACE PROFILE OF BELL DRIVE

BENCHMARK:
THE BENCHMARK FOR THIS SURVEY IS
THE TOP OF A SET 5/8" REBAR, THE
ASSUMED ELEVATION BEING 501.00.

PROFILE SCALE
VERT. 1 in = 4 ft
HORIZ. 1 in = 40 ft



CURVE TABLE		
CURVE	LENGTH	RADIUS
C3	39.27	25.00
C4	39.27	25.00
C8	42.41	27.00
C9	42.41	27.00
C10	42.41	27.00
C11	42.41	27.00
C12	39.27	25.00
C13	39.27	25.00



BELL DRIVE
PUBLIC SURFACE IMPROVEMENTS

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND
SERVICE ALERT TWO WORKING DAYS PRIOR TO
BEGINNING OF CONSTRUCTION BY CALLING
1-800-422-4133.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY
THE LOCATIONS AND ELEVATIONS OF ALL EXISTING
IMPROVEMENTS PRIOR TO BEGINNING WORK.



BETHEL
engineering

2824 Airport Drive
Santa Maria, California 93405
(805) 834-5767

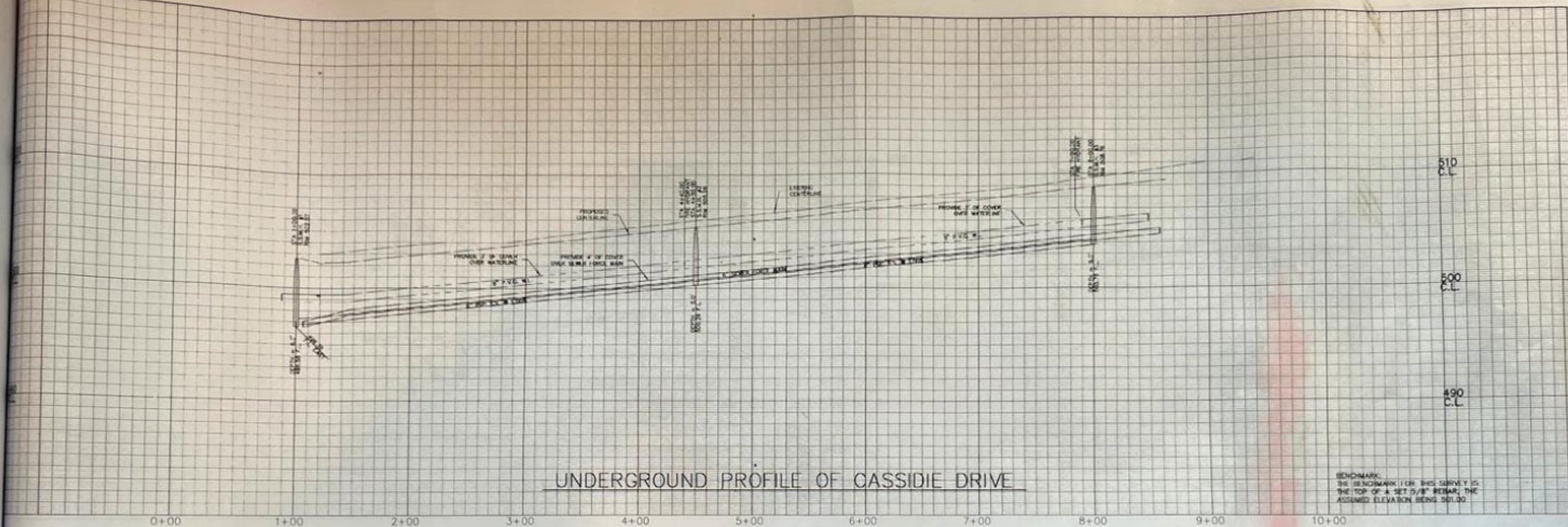
Paul J. Smith
DATE 8/19/07

DESIGN BY: J.S.W.	CHECKED BY: R.J.S.	SCALE: AS SHOWN	PROJECT NO: 0542	BELL DRIVE SURFACE RANCHOIL SUBDIVISION	SHEET NO: 5 OF 10 FILE NO:
DRAWN BY: J.S.W.	APPROVAL RECOMMENDED BY:				

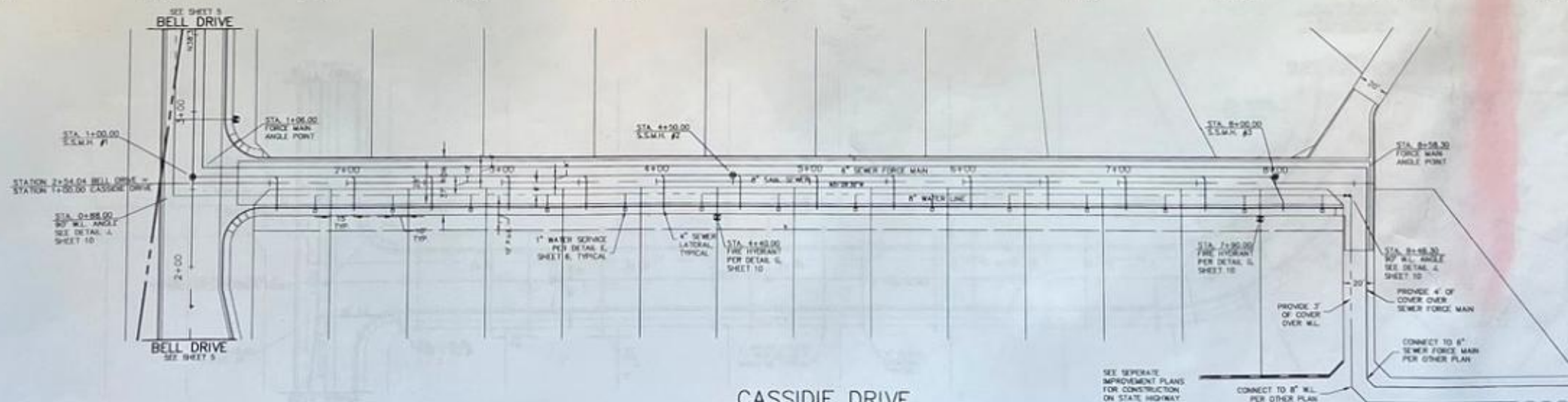
COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

CONSTRUCTION STARTED:
CONSTRUCTION COMPLETED:
AS BUILT:

REVIEWED BY: *[Signature]*
DATE: 12/10/07
DIRECTOR OF PUBLIC WORKS



PROFILE SCALE
 HZ. 1 in = 4 ft
 VZ. 1 in = 40 ft



NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

FLOOD CONTROL APPROVAL: _____ DATE: _____



BETHEL
 engineering

2624 Airport Drive
 Santa Monica, California 90405
 (805) 834-5787

Paul J. Hines
 DATE 11/16/07

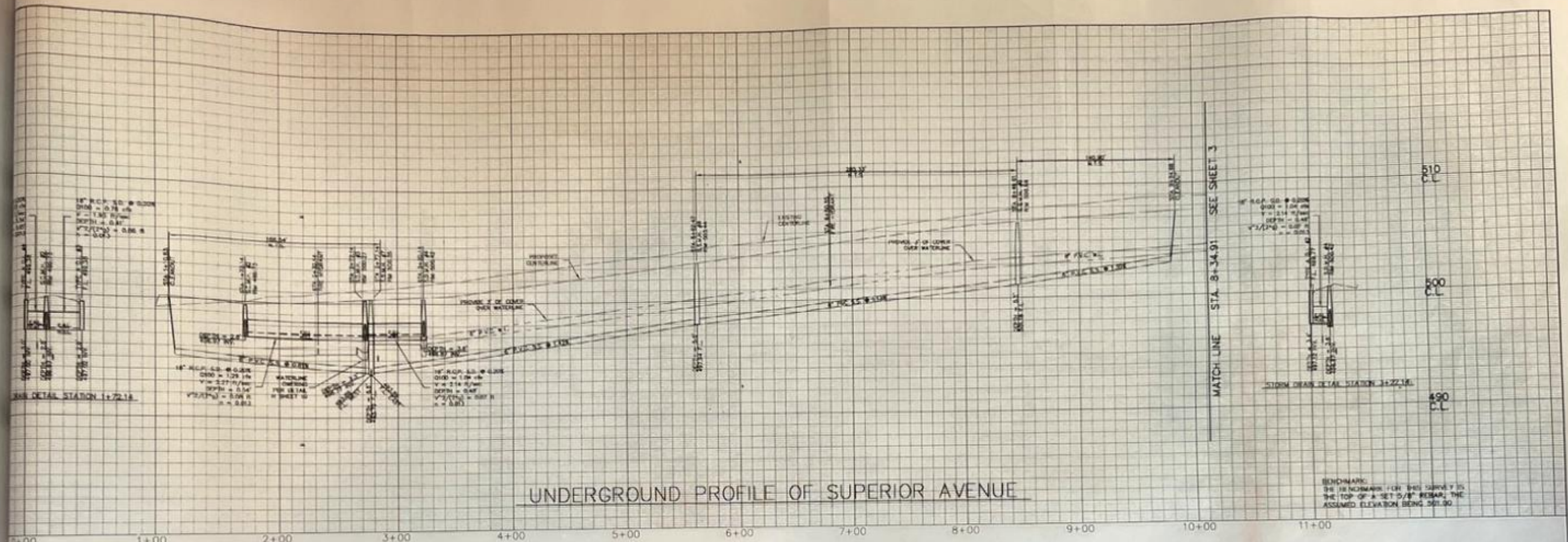
REVISIONS	CONSTRUCTION STARTED:	REVIEWED BY:	DATE:
	CONSTRUCTION COMPLETED:	<i>[Signature]</i>	12/17/07
	AS BUILT:	DIRECTOR OF PUBLIC WORKS	

COUNTY OF SANTA BARBARA
 DEPARTMENT OF PUBLIC WORKS
 ROAD DIVISION

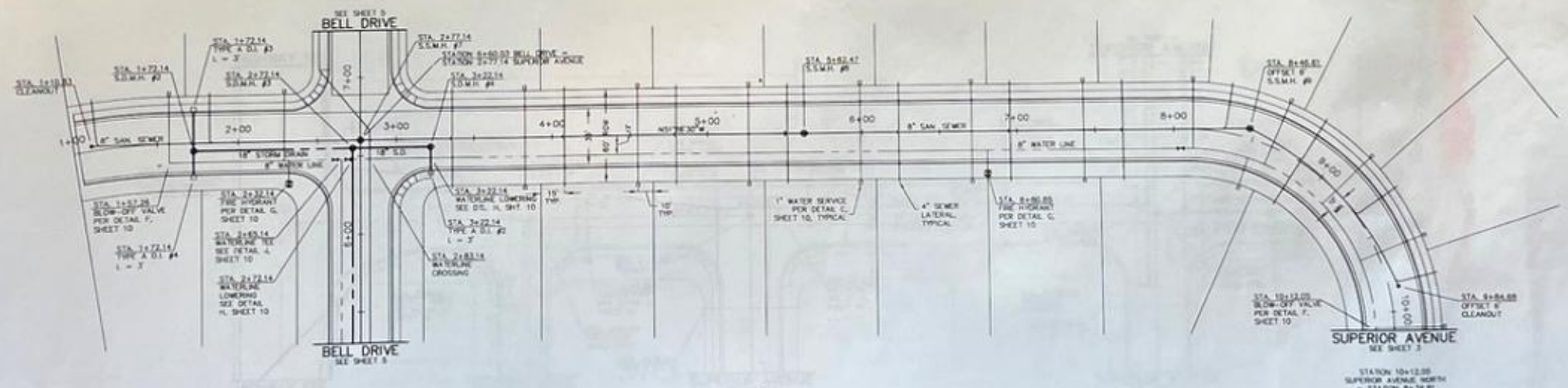
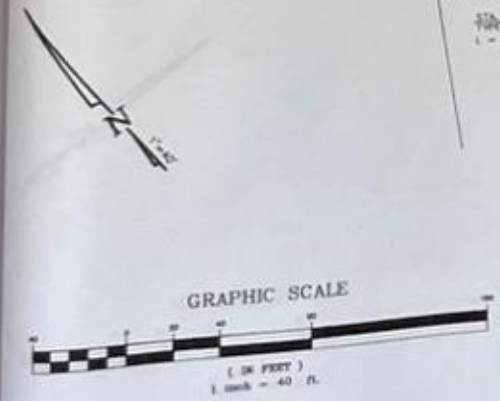
DESIGN BY:	CHECKED BY:	SCALE:	PROJECT NO.:
J.S.W.	R.G.G.	AS SHOWN	0542
DRAWN BY:	APPROVAL RECOMMENDED BY:		
J.S.W.			

CASSIDIE DRIVE
 UNDERGROUND
 RANCHOIL SUBDIVISION

SHEET NO.
 6 OF 12
 FILE NO.



FILE SCALE
 1" = 4' ft
 1" = 40' ft



SUPERIOR AVENUE NORTH
 PUBLIC UNDERGROUND IMPROVEMENTS

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.



BETHEL
 engineering
 2824 Airport Drive
 Santa Maria, California 93455
 (805) 934-5767

DATE: 4/19/07
 DRAWN BY: J.S.M.
 CHECKED BY: R.J.G.
 APPROVAL RECOMMENDED BY: [Signature]

REVISIONS	CONSTRUCTION STARTED	REVIEWED BY	DATE
		[Signature]	4/19/07
	CONSTRUCTION COMPLETED		
	AS BUILT		

COUNTY OF SANTA BARBARA
 DEPARTMENT OF PUBLIC WORKS
 ROAD DIVISION

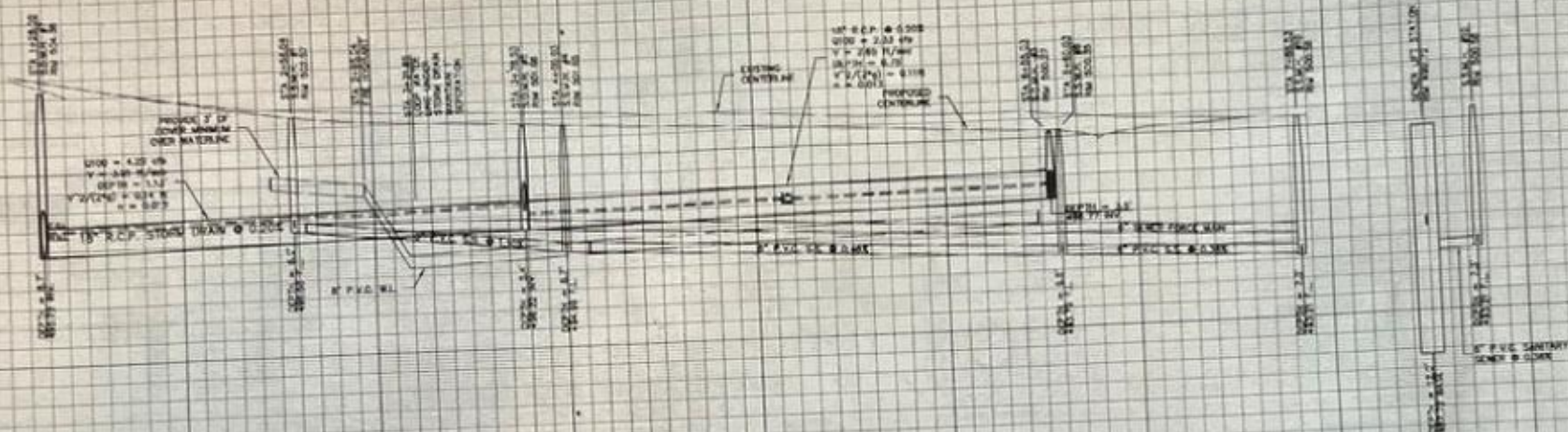
DESIGN BY: J.S.M.	CHECKED BY: R.J.G.	SCALE: AS SHOWN	PROJECT NO: 0542
DRAWN BY: J.S.M.	APPROVAL RECOMMENDED BY: [Signature]		

SUPERIOR AVENUE NORTH
 UNDERGROUND
 RANCHOIL SUBDIVISION

SHEET NO. 8 OF 10
 FILE NO.

TOTAL SHEETS	8
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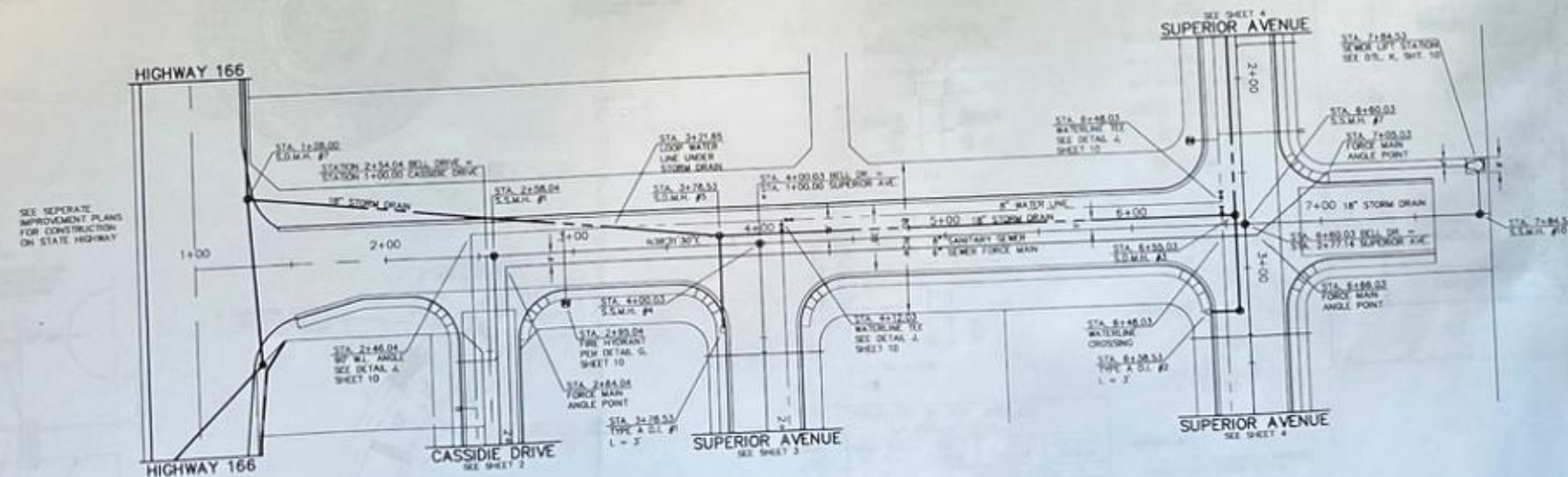
2/26/09



UNDERGROUND PROFILE OF BELL DRIVE

GRAPHIC SCALE

1 in = 4 ft
1 in = 40 ft



BELL DRIVE
PUBLIC UNDERGROUND IMPROVEMENTS

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.



BETHEL
engineering

2824 Alpark Drive
Santa Maria, California 93455
(805) 934-5167

Paul J. Jones
DATE 1/19/07

BELL DRIVE
UNDERGROUND
RANCHOIL SUBDIVISION

SHEET NO.
9 OF 10
FILE NO.

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

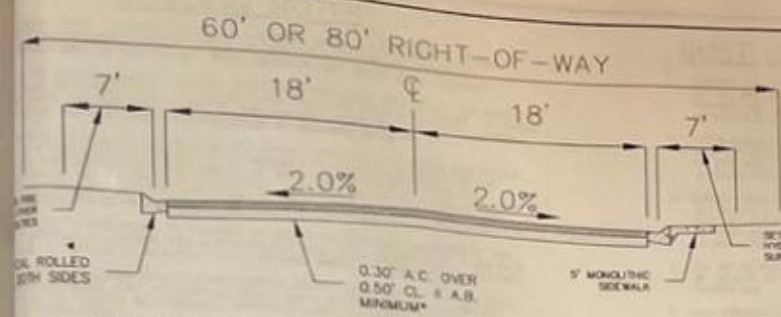
DESIGN BY: J.S.M.
DRAWN BY: J.S.M.

CHECKED BY: R.J.G.
APPROVAL RECOMMENDED BY:

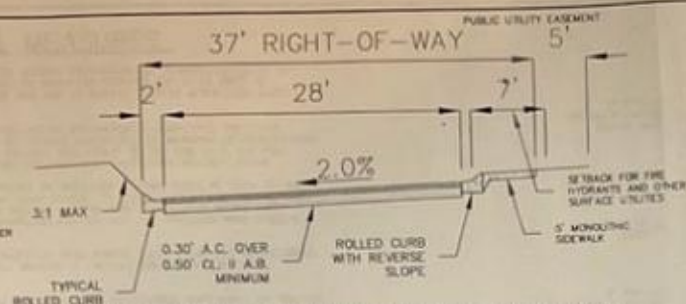
SCALE: AS SHOWN
PROJECT NO: 0542

CONSTRUCTION STARTED:	12/17/07
CONSTRUCTION COMPLETED:	
AS BUILT:	

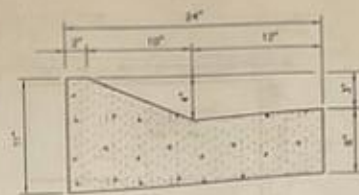
2/26/09



A STREET SECTION
BELL DRIVE
SUPERIOR AVENUE
N.T.S.



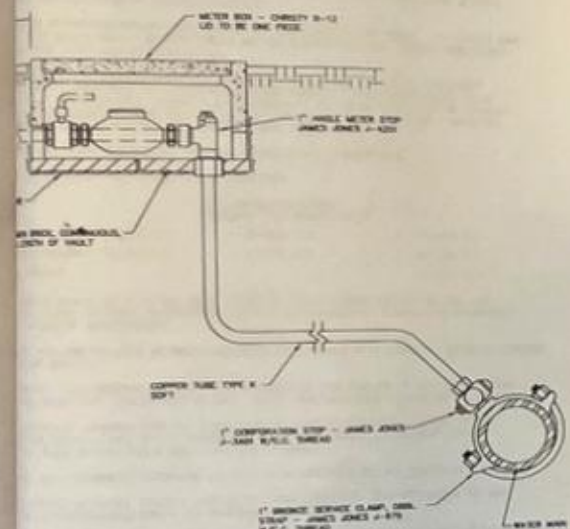
B MINOR STREET SECTION
CASSIDIE DRIVE
N.T.S.



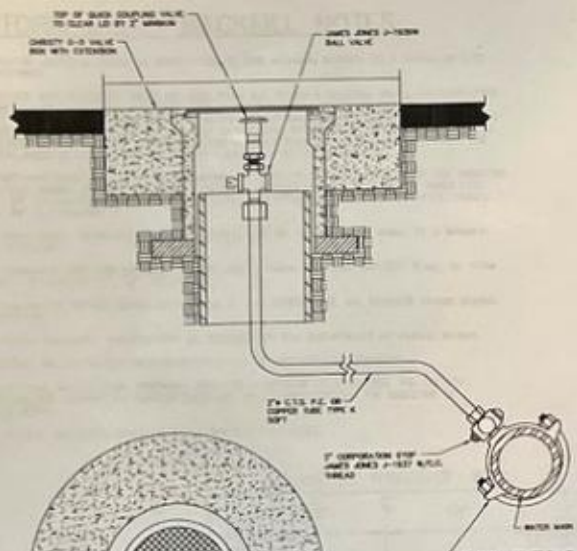
C TYPICAL ROLLED CURB
N.T.S.



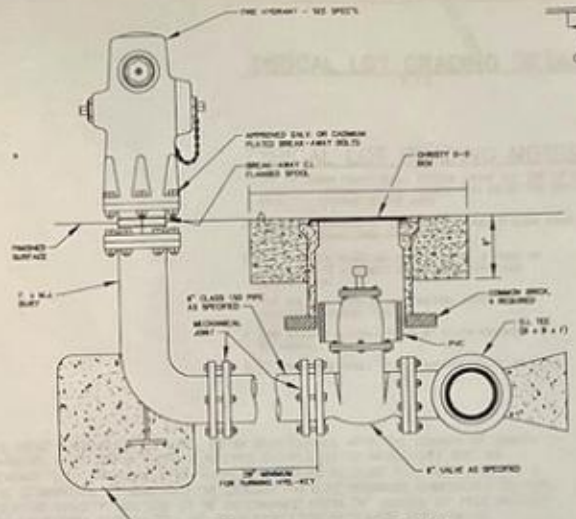
D ROLLED CURB W/REVERSE SLOPE
N.T.S.



E 1" WATER SERVICE
N.T.S.

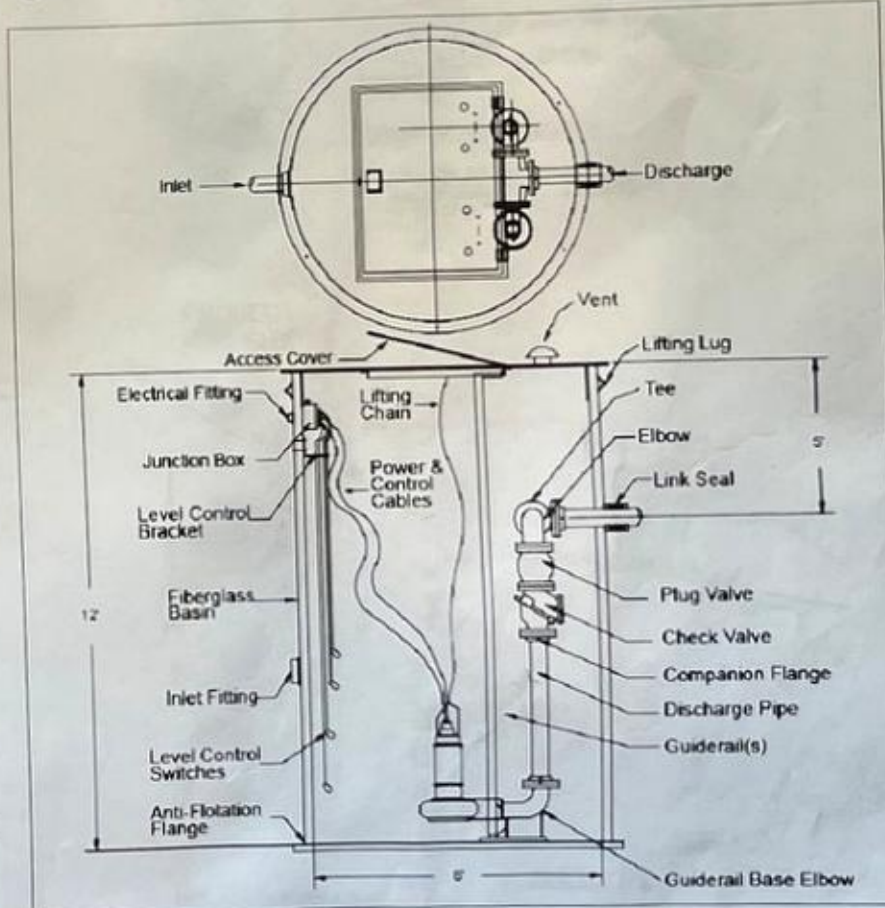


F 2" BLOW OFF
N.T.S.

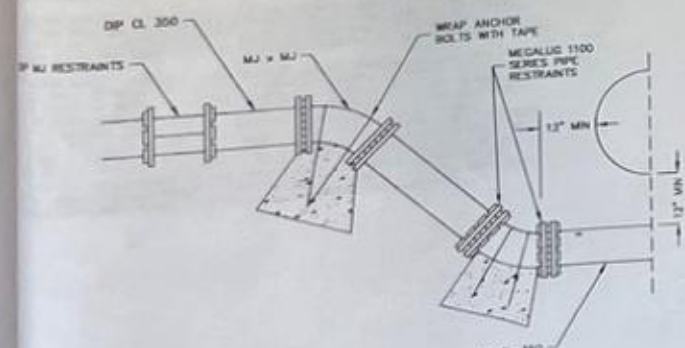


G FIRE HYDRANT
N.T.S.

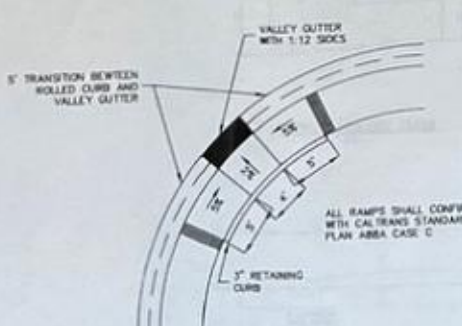
L DRAIN INLET IN ROLLED CURB
N.T.S.



K LIFT STATION
N.T.S.



H WATERLINE LOWERING
N.T.S.



I SIDEWALK ACCESS RAMP
N.T.S.

THRUST BLOCK AREAS (IN SQUARE FEET)

PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22 1/2° ELBOW
4"	2	4	2	2
6"	4	8	4	4
8"	8	16	8	8
10"	12	24	12	12
12"	18	36	18	18
14"	24	48	24	24
16"	30	60	30	30
18"	40	80	40	40
20"	48	96	48	48
24"	70	140	70	70

J THRUST BLOCKS
N.T.S.

- GENERAL NOTES:**
1. AREA SHOWN IS VERTICAL SURFACE AGAINST UNDISTURBED EARTH.
 2. AREA SHOWN IS FOR 225 PSI AGAINST 2000 PSI EARTH RESISTANCE. THRUST BLOCKS FOR OTHER CONDITIONS WILL BE SHOWN ON PLANS.
 3. CONCRETE USED SHALL BE 5 SK./CY. MIN. 2000 PSI IN 28 DAYS.
 4. ALL FITTINGS SHALL BE PROTECTED FROM CONCRETE WITH 5 MIL. WRAP OF POLYETHYLENE (VLS-QUEEN).



BETHEL engineering
2624 Alpark Drive
Santa Maria, California 93405
(805) 934-5187

DETAILS FOR
RANCHOIL SUBDIVISION

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

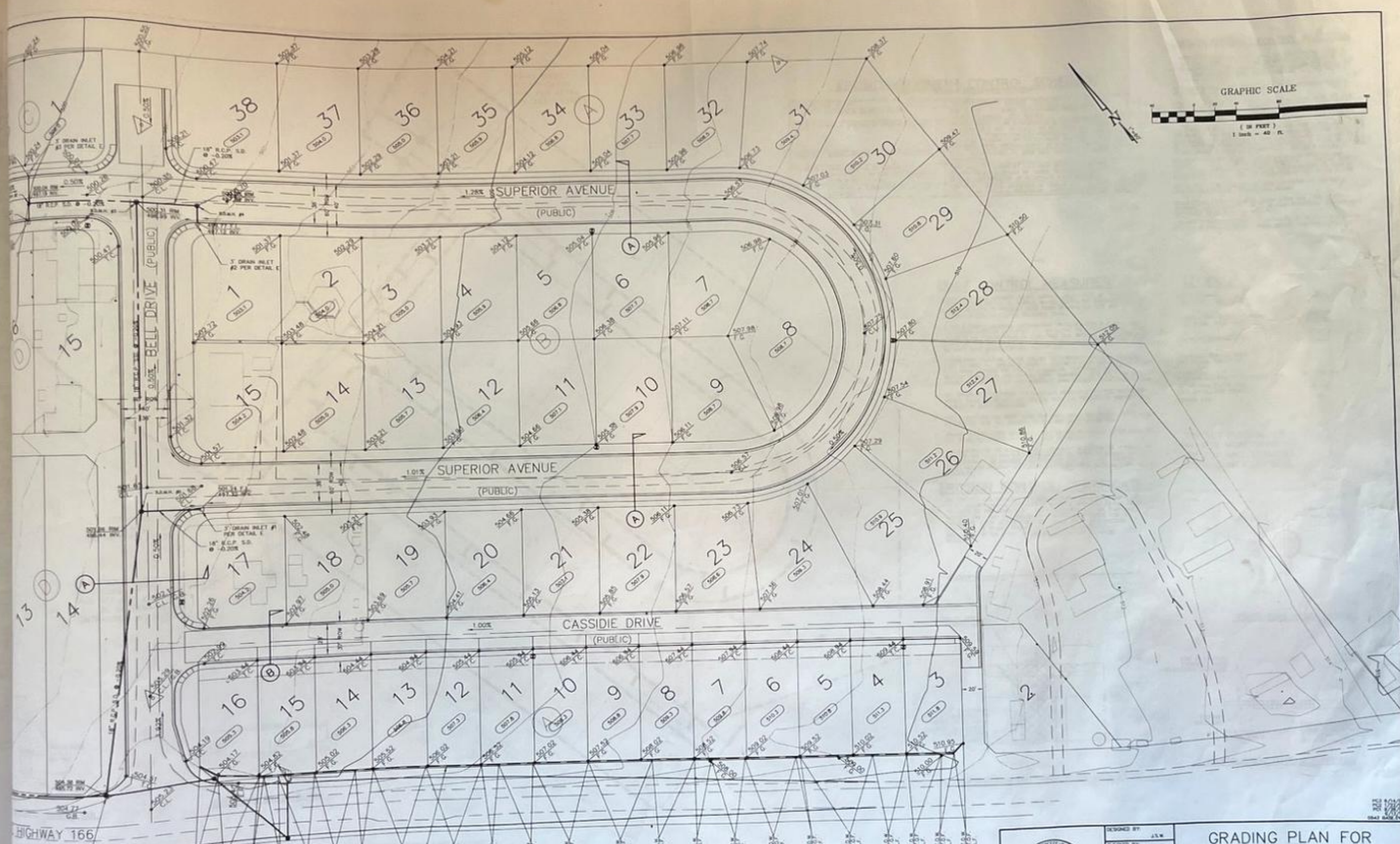
DESIGN BY: J.S.W.
CHECKED BY: R.J.G.
DRAWN BY: J.S.W.
APPROVAL RECOMMENDED BY:

SCALE: NOT TO SCALE
PROJECT NO.: 0542

SHEET NO.: 10 OF 10
FILE NO.:

CONSTRUCTION STARTED: 12/17/07
CONSTRUCTION COMPLETED: 12/17/07
AS BUILT:

REVIEWED: [Signature]
DIRECTOR OF PUBLIC WORKS



SHEET NO.	TOTAL SHEETS
1	8

354-741
(528m)
441-768
11/17/67
S.H. Remy
Lawyer

WORK FOR
RESPONSIBLE CHARGE
ED IN SECTION 8703
E. I. UNDERSTAND
AND SPECIFICATIONS
CONFIRMED TO A REVIEW
ENGINEER OF WORK OF
RE 120

CUYAMA

2/26/69
60/976

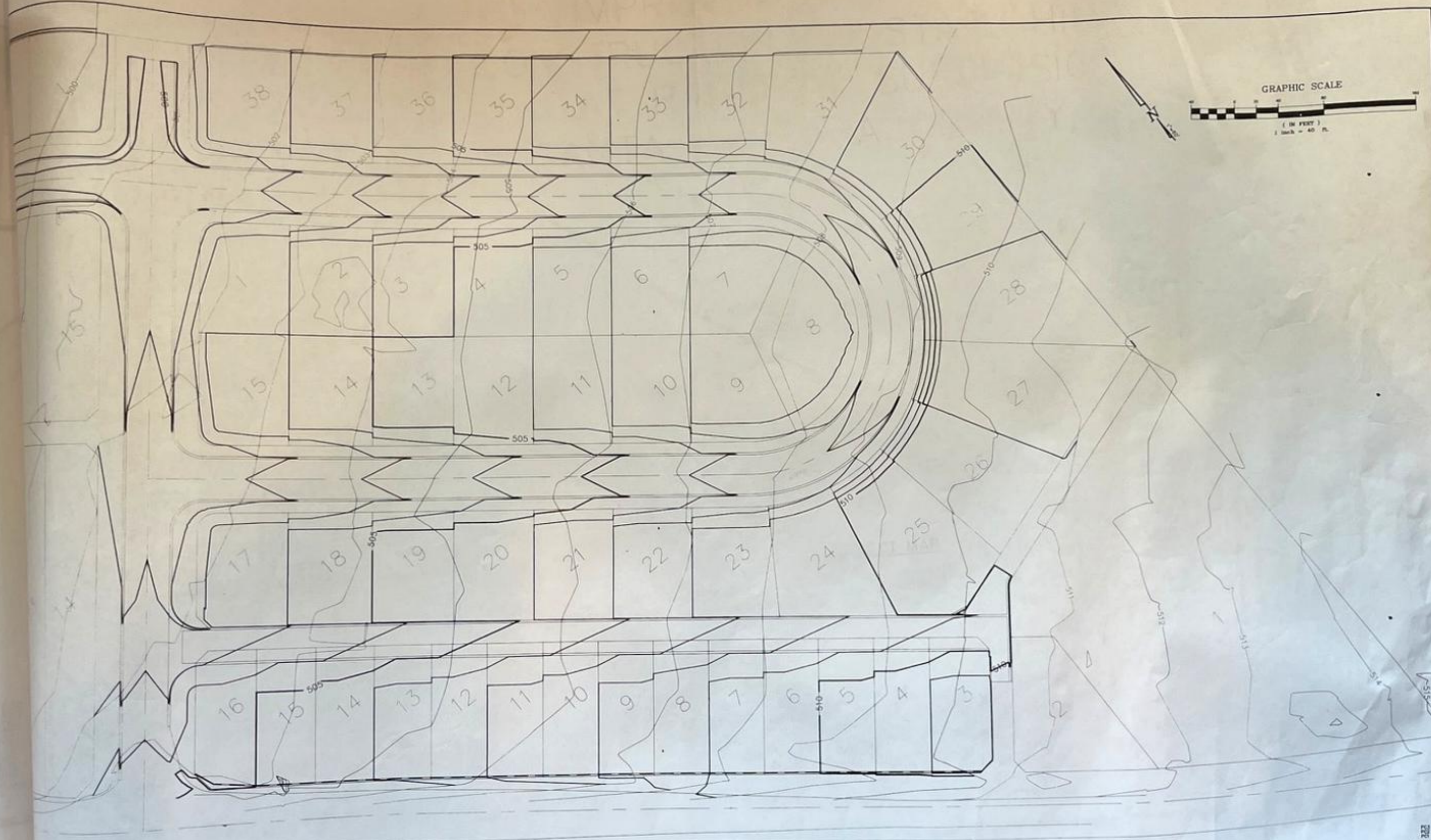
BETHEL
Engineering
2624 Airport Dr.
Santa Maria, California 93455
(805) 834-5767

DESIGNED BY: J.W. CHECKED BY: R.C. DATE: 12/17/67		GRADING PLAN FOR RANCHOIL SUBDIVISION COUNTY OF SANTA BARBARA, CALIFORNIA	
APPROVED FOR GRADING BY: <i>[Signature]</i>		SCALE: AS SHOWN	
REVIEWED BY: <i>[Signature]</i>		DATE: 12/17/67	

LEGEND

GENERAL NOTES

PLANNING END



350
100
100
Fault
Fault

THE ENGINEER OF WORK FOR
NOTED RESPONSIBLE CHARGE
AS DEFINED IN SECTION 8703.
NATIONAL CODE. I UNDERSTAND
DRAWINGS AND SPECIFICATIONS
AREA IS CONFIRMED TO A REVIEW
- AS ENGINEER OF WORK, OF
CT DESIGN.

ATES, INC.
PRIV., SUITE 120

NUMBER:
ON: 6/30/08

3 2007
MAP
ANS Permit Plans
0 0000 Line 0009
1 of 5



2024 Argonne Drive
Santa Maria, California 93455
(805) 938-5767

Paul J. Jones DATE 7/6/07

BOX 58997

IMPROVEMENT PLANS FOR ANCHOR SUBDIVISION	SHEET NO. 1 OF 8
	FILE NO.

APPROVED FOR GRADING BY: David H. [Signature] 1/14/08
SCHOOL OFFICIAL, COUNTY OF SANTA BARBARA

REVIEWED BY: 
PLANT CONTROL SPECIALIST U.S. CO. 4A

N-26-47

THE UNDERSIGNED CIVIL ENGINEER CERTIFIES THIS GRADING WORK WILL BE
SUPERVISED IN ACCORDANCE WITH SANTA BARBARA CO. ORDINANCE NO. 4477

CHECKED BY: J.S.W.
 CHECKED BY: M.J.C.
 REVISIONS
 DATE DESCRIPTION
 APPROVED: 12/17/03
 DATE

GRADING PLAN FOR
RANCHOIL SUBDIVISION
COUNTY OF SANTA BARBARA, CALIFORNIA

11/19/07

BETHEL 2634 Algonk Dr
Marina, California 93405
(800) 934-5167

SEAL: AS 9407

U.S. GOVERNMENT PRINTING OFFICE

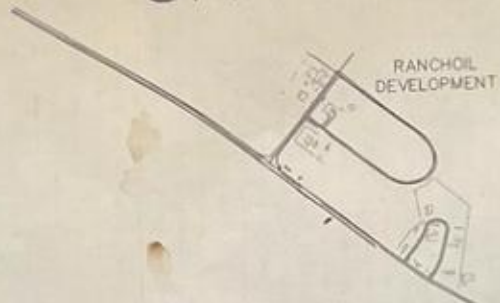
asap reprographics

Printing For Professionals, By Professionals

GENERAL NOTES

1. UTILITIES: SANITARY SEWER SYSTEM CUYAMA COMMUNITY SERVICES DISTRICT
WATER SYSTEM CUYAMA COMMUNITY SERVICES DISTRICT
2. WATER SYSTEM: POLYVINYL CHLORIDE PRESSURE PIPE SHALL BE USED AND SHALL CONFORM TO AMERICAN WATER WORKS ASSOCIATION C-900. PIPE SHALL BE CLASS 150, DR 18, AND WITHSTAND A WORKING PRESSURE OF AT LEAST 150 P.S.I. WATER MAINS SHALL HAVE AT LEAST THREE FEET OF COVER. ALL VALVES SHALL BE IRON BODY RESILIENT-SEATED GATE VALVES, AWWA C-509.
3. BENCHMARK: THE BENCHMARK FOR THIS PROJECT IS THE TOP OF A SET 5/8" REBAR LOCATED NEAR THE NORTH END OF BELL DRIVE, THE ASSUMED ELEVATION BEING 501.00 FEET.
4. BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS PROJECT IS THE LINE BETWEEN TWO FOUND 6"x6" CONCRETE HIGHWAY MONUMENTS ON THE SOUTH SIDE OF HWY 166, THE BEARING BEING N51°28'30"W AS SHOWN ON 15 MB 287.
5. IN THE EVENT THAT ARCHAEOLOGICAL OR PALEONTOLOGICAL REMAINS OR HISTORICAL ARTIFACTS ARE UNCOVERED DURING CONSTRUCTION ON ANY SITE, EXCAVATION SHALL BE AND, AS APPLICABLE, A NATIVE AMERICAN REPRESENTATIVE OR HISTORIAN, ARE RETAINED BY THE APPLICANT TO EVALUATE THE FIND.
6. IN THE EVENT BURIALS ARE ENCOUNTERED, THEY WILL BE TREATED ACCORDING TO PROCEDURES SET FORTH IN THE ARCHAEOLOGICAL RESOURCE PROTECTION ACT AND IMPLEMENTING REGULATION (43 CFR PART 7), CEQA APPENDIX K, AND THE PUBLIC RESOURCES CODE SECTION 5097.98. THESE CALIFORNIA STATE AND LOCAL PROCEDURES REQUIRE NOTIFICATION OF THE LOCAL CORONER TO DETERMINE THE ORIGIN OF THE REMAINS. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, PROCEDURES ESTABLISHED WILL BE FOLLOWED.
7. BY PUBLIC RESOURCES CODE SECTION 5097.98 REGARDING NATIVE AMERICAN CONSULTATION, THE ABOVE MEASURES SHALL BE APPLIED CONSISTENT WITH THE ARCHAEOLOGICAL GUIDELINES OF SANTA BARBARA COUNTY, THE STATE OFFICE OF HISTORIC PRESERVATION, AND THE STATE OF CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION.
8. ALL DESIGN, MATERIALS AND CONSTRUCTION WORK WITHIN STATE RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS DATED MAY 2008.
9. PRIOR TO ANY WORK WITHIN STATE RIGHT OF WAY, AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CALIFORNIA DEPARTMENT OF TRANSPORTATION.
10. PRIOR TO THE ISSUANCE OF AN ENCROACHMENT PERMIT BY CALTRANS, THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE STATE FOR ALL WORK WITHIN STATE RIGHT OF WAY FOR REVIEW AND APPROVAL.
11. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT AND MAINTAIN SUCH FENCES, BARRICADES, LIGHTS AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES. THE USE OF TEMPORARY TRAFFIC CONTROL SHALL BE APPROVED BY THE CALTRANS INSPECTOR PRIOR TO INSTALLATION AND SHALL CONFORM TO SECTION 12, "CONSTRUCTION AREA TRAFFIC CONTROL DEVICES," OF THE CALTRANS STANDARD SPECIFICATIONS.
12. ALL EXCAVATIONS OR TRENCHES IN EXISTING PAVEMENT WITHIN STATE RIGHT OF WAY SHALL REQUIRE FULL DEPTH SAWCUTTING OF PAVEMENT IN A NEAT AND UNIFORM MANNER AND SHALL CONFORM TO SECTION 19, "EARTHWORK" OF THE CALTRANS STANDARD SPECIFICATIONS.
13. THE LOCATION OF ALL PROPOSED UNDERGROUNDING OF UTILITIES WITHIN STATE RIGHT OF WAY SHALL BE APPROVED BY THE STATE. ALL UTILITY WORK WITHIN STATE RIGHT OF WAY SHALL CONFORM TO THE STATE "POLICY ON HIGH AND LOW RISK UNDERGROUND FACILITIES WITHIN HIGHWAY RIGHTS OF WAY".
14. INFORMATION SHOWN AS EXISTING IMPROVEMENTS ON THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.
15. CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, AT HIS EXPENSE, ANY UTILITIES DAMAGED BY HIS FORCES.
16. ALL GRADING WITHIN STATE RIGHT OF WAY SHALL CONFORM TO SECTION 16, "CLEARING AND CRUISING," OF THE CALTRANS STANDARD SPECIFICATIONS.
17. ALL WATERING WITHIN STATE RIGHT OF WAY SHALL CONFORM TO SECTION 17, "WATERING," OF THE CALTRANS STANDARD SPECIFICATIONS.
18. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.
19. TRAFFIC INDEX ON HIGHWAY IS 11, SHOULDER IS 7.

IMPROVEMENT PLANS FOR CONSTRUCTION ON STATE HIGHWAY AT RANCHOIL SUBDIVISION SANTA BARBARA COUNTY, CA.



PROJECT MAP

INDEX	
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
PLAN STATION 0+00 - 11+00	2
PLAN STATION 11+00 - 22+00	3
PLAN STATION 22+00 - 48+00	4
PLAN STATION 48+00 - 74+00	5
PLAN STATION 74+00 - 92+00	6
DETAILS	7
STRIPE PLAN	8

DISTRICT	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
05	SB	166	62.58/64.20	1	8

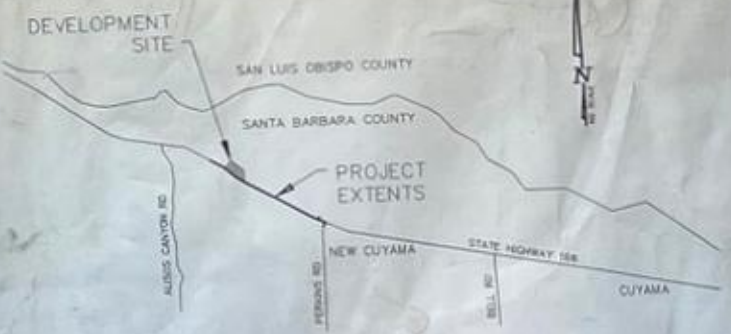
LEGEND



I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OF THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SANTA BARBARA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: DENNIS BETHEL & ASSOCIATES, INC.
ADDRESS: 2450 PROFESSIONAL PKWY., SUITE 120
TELEPHONE: (805) 934-5767

RUSSELL J. GARRISON
PROFESSIONAL REGISTRATION NUMBER:
R.C.E. 55987 DATE OF EXPIRATION: 6/30/08
DISCIPLINE: CIVIL ENGINEER



JUL 13 2007
VICINITY MAP
CALTRANS Permit Plans
Permit No. C606 Line 049
Page 1 of 6

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION	DATE
FIRE DEPARTMENT APPROVAL	DATE
UTILITIES APPROVED BY:	DATE
STORM SYSTEM REVIEWED BY:	DATE



BETHEL
engineering
2624 Airport Drive
Santa Maria, California 93405
(805) 934-5767

Russell J. Garrison
7/6/07

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

DESIGN BY:	J.S.W.	CHECKED BY:	R.J.G.	SCALE:	NONE	PROJECT NO.	0542
DRAWN BY:	J.S.W.	APPROVAL RECOMMENDED BY:					

IMPROVEMENT PLANS
FOR
RANCHOIL SUBDIVISION

SHEET NO.	1 OF 8
FILE NO.	

CONSTRUCTION STARTED:	REVIEWED BY:
CONSTRUCTION COMPLETED:	
AS BUILT:	DIRECTOR OF PUBLIC WORKS

GRADING NOTES

ALL GRADING SHALL BE IN ACCORDANCE WITH SANTA BARBARA COUNTY ORDINANCE 4477 AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND THE STANDARD SPECIFICATIONS FOR SOILS ENGINEERING AND ENGINEERING GEOLOGIST. THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT THE COUNTY ENGINEERING OFFICE SHALL BE NOTIFIED PRIOR TO ANY GRADING WORK OR ANY PRE-CONSTRUCTION MEETING.

ALL GRADING SHALL BE IN ACCORDANCE WITH THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT THE COUNTY ENGINEERING OFFICE. ALL GRADING SHALL BE IN ACCORDANCE WITH THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT THE COUNTY ENGINEERING OFFICE.

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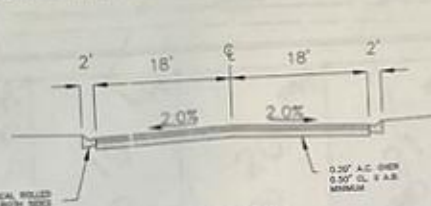
ALL GRADING SHALL BE IN ACCORDANCE WITH THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT THE COUNTY ENGINEERING OFFICE. ALL GRADING SHALL BE IN ACCORDANCE WITH THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT THE COUNTY ENGINEERING OFFICE.

DUST CONTROL MEASURES

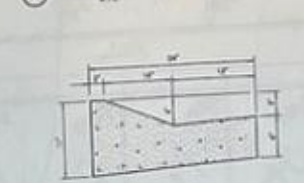
1. DURING CLEARING, GRADING, EARTHWORK, EXCAVATION, OR TRANSPORTATION OF CUT OR FILL MATERIALS, WATER TRUCKS OR SPRINKLER SYSTEMS ARE TO BE USED TO PREVENT DUST FROM LEAVING THE SITE AND TO CREATE A CRUST AFTER EACH DAY'S ACTIVITIES CEASE.
2. AFTER CLEARING, GRADING, EARTHWORK OF EXCAVATION IS COMPLETED, THE ENTIRE AREA OF DISTURBED SOIL SHALL BE TREATED IMMEDIATELY BY WATERING OR REVEGETATING. ALL AREAS OF SPREADING SOIL, BUNDERS TO PREVENT DUST FROM LEAVING THE SITE, SHALL BE PAVED OR OTHERWISE SE-CURED SO DUST DUST GENERATION WILL NOT OCCUR.
3. DURING CONSTRUCTION, WATER TRUCKS OR SPRINKLER SYSTEMS SHALL BE USED TO KEEP ALL AREAS OF VEHICLE MOVEMENT DAMP ENOUGH TO PREVENT DUST FROM LEAVING THE SITE. AT A MINIMUM, THIS WOULD INCLUDE SETTING DOWN SUCH AREAS IN THE LATER MORNING AND AFTER WORK IS COMPLETED FOR THE DAY AND WHENEVER WIND EXCEEDS 15 MILES PER HOUR.
4. ALL AREAS NOT PROPOSED FOR IMMEDIATE DEVELOPMENT (E.G. WITHIN TWO WEEKS) SHALL BE SEEDING OR TREATED WITH SOIL BINDERS TO PREVENT SOIL EROSION OR DUST GENERATION.
5. SOIL STOCKPILED FOR MORE THAN TWO DAYS SHALL BE COVERED, KEPT MOIST, OR TREATED WITH SOIL BINDERS TO PREVENT DUST GENERATION.
6. TRUCKS TRANSPORTING SOIL, SAND, CUT OR FILL MATERIALS TO OR FROM THE SITE SHALL BE TARPED FROM THE POINT OF ORIGIN.
7. THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING AS NECESSARY TO PREVENT TRANSPORT OF DUST OFF-SITE. THEIR DUTIES SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS.

STORM DRAIN BACKFILL NOTES

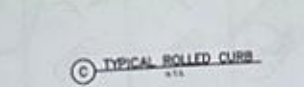
1. ALL NATIVE MATERIAL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY TO A DEPTH OF 0.75' AS REQUIRED.
2. ON ROADS WITH A TRAFFIC INDEX OF LESS THAN 5.5, CLASS 1 BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY. ON ROADS WITH A TRAFFIC INDEX OF 5.5 OR GREATER CLASS 1 BACKFILL SHALL BE REQUIRED AND COMPACTED TO 95% MAXIMUM DENSITY. IN SHOULDER AREAS, THE BACKFILL SHALL BE PART OF A FUTURE ROAD'S WORKING PROJECT. IN SUCH CASES WHERE THE TRAFFIC INDEX IS 5.5 OR GREATER, CLASS 1 BACKFILL WILL BE REQUIRED.
3. BEDDING MUST CONFORM TO CLASS 1 BACKFILL SPECIFICATIONS UNLESS WAIVED BY THE DIRECTOR OF PUBLIC WORKS. BEDDING SHALL BE A MINIMUM OF 0.15' BELOW THE PIPE FOR PIPES LESS THAN 36" IN DIAMETER AND 1/10 OF THE OUTSIDE DIAMETER OF THE PIPE FOR PIPES LARGER THAN 36" IN DIAMETER.
4. THE WIDTH SHALL BE MEASURED AT THE SPINE LINE OF THE PIPE AND SHALL BE A MINIMUM OF 1' EACH SIDE.
5. THE STANDARD TEST FOR MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT SHALL BE ASTM D 1557-78, METHOD "A", "B", "C", OR "D".
6. NO PONDING OR JETTING SHALL BE ALLOWED IN THE UPPER 4" OF THE FINISHED GRADE DURING COMPACTION.
7. ADDITIONAL PAVEMENT WORKING MAY BE REQUIRED BY THE DEPARTMENT OF PUBLIC WORKS.
8. CAL-CPWA TRENCH SAFETY REQUIREMENTS SHALL BE MET FOR ALL TRENCHES.
9. SAW CUTTING ANY EXISTING PAVEMENT SHALL BE A MINIMUM OF 1' OUTSIDE THE TRENCH LIMITS UNLESS AGAINST AN EXISTING CURB (SP), OR AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
10. ALL LATERAL TRENCHES SHALL BE BORED WHENEVER POSSIBLE.



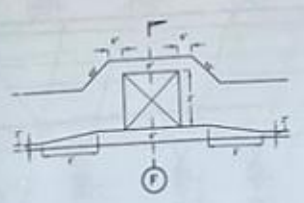
A STREET SECTION
N.T.S.



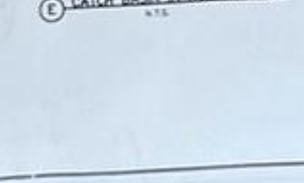
B ALLEY SECTION
N.T.S.



C TYPICAL ROLLED CURB
N.T.S.



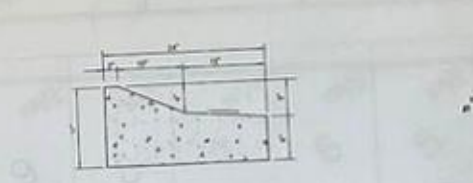
D ROLLED CURB W/ REVERSE SLOPE
N.T.S.



E CATCH BASIN IN ROLLED CURB
N.T.S.



F CATCH BASIN IN ROLLED CURB
N.T.S.



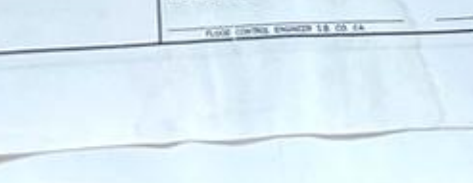
G WALL SECTION
N.T.S.



H WALL SECTION
N.T.S.



I WALL SECTION
N.T.S.



J WALL SECTION
N.T.S.

LEGEND



VICINITY MAP
N.T.S.

INDEX

SHEET NO.	DESCRIPTION
1.	TITLE SHEET & NOTES
2.	GRADING PLAN
3.	EROSION CONTROL PLAN
4.	PROPOSED CONTOURS

SANTA BARBARA COUNTY GRADING PERMIT #



DESIGNED BY: J.S.W.
CHECKED BY: R.J.D.
DATE: 5/1/08
DESCRIPTION: GRADING PLAN

GRADING PLAN FOR
RANCHOIL SUBDIVISION
COUNTY OF SANTA BARBARA, CALIFORNIA

DATE: 5/1/08
SCALE: AS SHOWN

APPROVED FOR GRADING BY: [Signature]

DATE: 5/1/08

BY: S.B. CO. DIRECTOR OF PUBLIC WORKS

SHEET 1 OF 4

REVIEWED BY: [Signature]

DATE: 5/1/08

FOR: CONTROL ENGINEER S.B. CO. CA

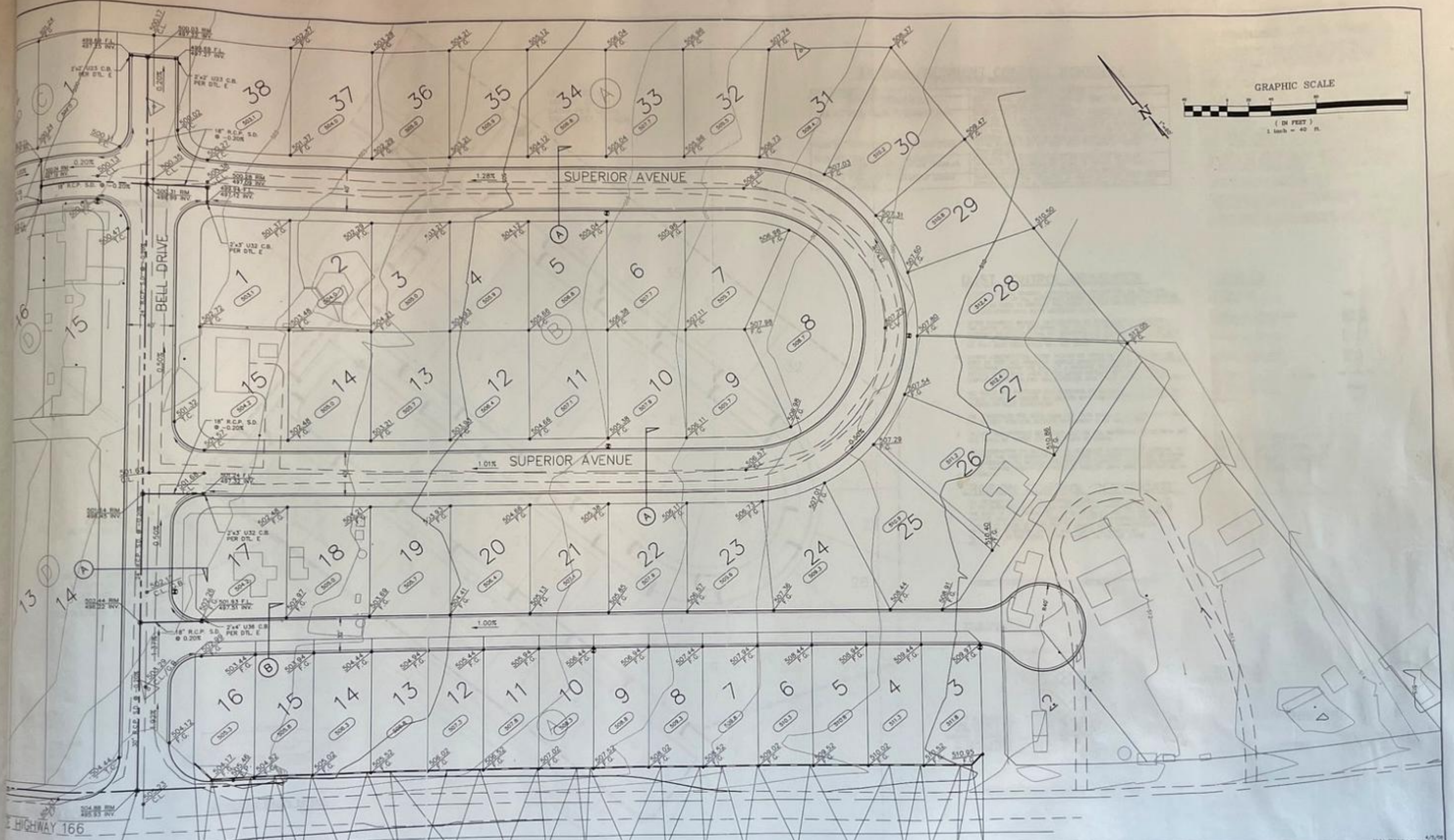
DATE: 5/1/08

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DATE: 5/1/08

DATE: 5/1/08

DATE: 5/1/08



GRADING PLAN FOR RANCHOIL SUBDIVISION COUNTY OF SANTA BARBARA, CALIFORNIA

DESIGNED BY: J.S.W.	DATE: _____
CHECKED BY: R.J.G.	DATE: _____
REVISIONS:	DATE: _____
DATE: _____	DESCRIPTION: _____
APPROVED FOR GRADING BY: _____ BUILDING OFFICIAL, COUNTY OF SANTA BARBARA	
REVIEWED BY: _____ ALSO: COUNTY ENGINEER S.B. CO. CA	DATE: _____
THE UNDERSIGNED CIVIL ENGINEER CERTIFIES THIS GRADING WORK WILL BE SUPERVISED IN ACCORDANCE WITH SANTA BARBARA CO. ORDINANCE NO. 6477	
APPROVED: _____ DATE: _____	BY: _____ S.B. CO. DIRECTOR OF PUBLIC WORKS
SHEET 2 OF 4	



EROSION/SEDIMENT CONTROL SCHEDULE

CONSTRUCTION ACTIVITY	EROSION/SEDIMENT CONTROL PRACTICES
PHASE I - CLEARING & GRUBBING OF SITE	DUST CONTROL MEASURES AS DESCRIBED UNDER DUST CONTROL MEASURES (SEE ABOVE)
PHASE II - ROUGH GRADING OF DRIVEWAYS & PAD	SEVERED AREAS TO BE HYDROSEEDING & HYDROMULCHED. SLOPES IN EXCESS OF 3 FEET IN HEIGHT, TO BE COVERED WITH STRAW BLANKETS IN CONJUNCTION WITH HYDROSEEDING & HYDROMULCHING. FIBER ROLL PLACEMENT AT TOP OF BANK AND TOE OF SLOPE. LOCATIONS WHERE VERTICAL HEIGHT OF SLOPE EXCEEDS TWO FEET. GRAVEL BARS PLACED AT DROP INLET SPACINGS OF STORM DRAIN SYSTEM.
PHASE III - FINISH GRADING OF DRIVEWAYS, CONSTRUCTION OF CONCRETE SIDEWALKS, CURBS & GUTTERS ETC.	FIBER ROLL PLACEMENT AT LOCATIONS WHERE TOE OF SLOPE TERMINATES AT SIDEWALKS OR CURBS TO PREVENT MIGRATION OF SILT & CONTAMINATION OF ADJACENT BASE MATERIAL.
PHASE IV - CLEAN UP & TERMINATION OF GRADING ACTIVITIES	TEMPORARY CONTROL MEASURES TO REMAIN IN PLACE UNTIL INTERIOR STREETS ARE PAVED & PERMANENT LANDSCAPING IS ESTABLISHED.

EROSION/SEDIMENT CONTROL PRACTICES

CONSTRUCTION ENTRANCE AREAS SHALL BE CONSTRUCTED PRIOR TO IMPORT AND EXPORT OF SOILS. THE ENTRANCE AREAS SHALL BE 4'-4" AGGREGATE PLACED TO A MINIMUM DEPTH OF 12" OVER A GEOTEXTILE FABRIC SUCH AS MARI-SOIL. INSPECT FOR DAMAGE REGULARLY AND REPAIR AS REQUIRED.

EQUIPMENT STORAGE AND SERVICE AREA TO BE PREPARED PRIOR TO BEGINNING OF GRADING ACTIVITIES.

TEMPORARY CONTROL MEASURES TO REMAIN IN PLACE UNTIL INTERIOR STREETS ARE PAVED AND PERMANENT LANDSCAPING IS ESTABLISHED. EQUIPMENT STORAGE AREA HYDROSEEDING, AND EQUIPMENT SERVICE AREA HYDROSEEDING.

ALL GRADED SLOPES 4:1 OR STEEPER TO HAVE FIBER ROLLS PLACED AT THE BASE OF THE SLOPE, AND EVERY 50' HORIZONTALLY FOR SLOPES THAT EXCEED 10' HORIZONTALLY. FIBER ROLLS PLACED MID-SLOPE TO BE AT THE SAME ELEVATION ALONG ENTIRE LENGTH OF SLOPE SO AS TO NOT CREATE A DRAINAGE COURSE ALONG THE FIBER ROLLS.

ALL DENSELY SLOPE AREAS TO BE TRUCK WALKED WITH TRACKS EQUIPMENT UP AND DOWN THE SLOPE. SLOPES SHALL THEN BE SEEDS AND COVERED WITH STRAW BLANKET OR HYDROMULCHED AS SOON AS POSSIBLE OR WITHIN A WEEKS OF COMPLETION OF CUT & FILL SLOPES.

REASONABLE EFFORTS SHOULD BE MADE TO PRESERVE EXISTING VEGETATION BEFORE SITE DISTURBANCE BEGINS.

GRAVEL BARS TO BE PLACED AT CATCH BASIN AND DROP INLET OPENINGS. SEDIMENT BASINS TO BE CONSTRUCTED AT ALL UNPAVED ENTRANCES TO STORM DRAIN SYSTEM.

SEVERED PERMANENT OPEN SPACE AREAS TO BE COVERED WITH STRAW BLANKET IN CONJUNCTION WITH HYDROSEEDING/HYDROMULCHING.

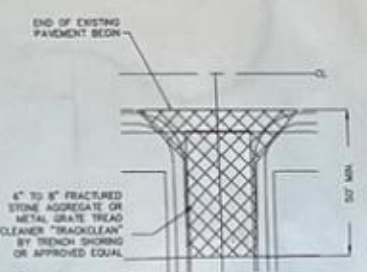
DUST CONTROL MEASURES

- DURING CLEARING, GRADING, EARTH MOVING, EXCAVATION OR TRANSPORTATION OF CUT OR FILL MATERIALS, WATER TRUCKS OR SPRINKLER SYSTEMS ARE TO BE USED TO PREVENT DUST FROM LEAVING THE SITE AND TO CREATE A CRUST AFTER EACH DAY'S ACTIVITIES CEASE.
- AFTER CLEARING, GRADING, EXCAVATION OR TRANSPORTATION IS COMPLETED, THE ENTIRE AREA OF DISTURBED SOIL SHALL BE TREATED IMMEDIATELY BY WATERING OR REVEGETATING OR SPREADING SOIL BINDERS TO PREVENT WIND PICKUP OF THE SOIL UNTIL THE AREA IS PAVED OR OTHERWISE DEVELOPED SO THAT DUST GENERATION WILL NOT OCCUR.
- DURING CONSTRUCTION, WATER TRUCKS OR SPRINKLER SYSTEMS SHALL BE USED TO KEEP ALL AREAS OF VEHICLE MOVEMENT DAMP ENOUGH TO PREVENT DUST FROM LEAVING THE SITE. AT A MINIMUM, THIS WOULD INCLUDE WETTING DOWN SUCH AREA IN THE LATER MORNING AND AFTERNOON IS COMPLETED FOR THE DAY AND WHENEVER WIND EXCEEDS 15 MILES PER HOUR.
- ALL AREAS NOT PROPOSED FOR IMMEDIATE DEVELOPMENT (E.G. WITHIN TWO WEEKS) SHALL BE SEEDS OR TREATED WITH SOIL BINDERS TO PREVENT SOIL EROSION OR DUST GENERATION.
- SOIL STOCKPILED FOR MORE THAN TWO DAYS SHALL BE COVERED, KEPT MOIST, OR TREATED WITH SOIL BINDERS TO PREVENT DUST GENERATION.
- TRUCKS TRANSPORTING SOIL, SAND, CUT OR FILL MATERIALS TO OR FROM THE SITE SHALL BE TAPED FROM THE POINT OF ORIGIN.
- THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING AS NECESSARY. TO PREVENT TRANSPORT OF DUST OFF-SITE, THEIR DUTIES SHALL INCLUDE HOLDING AND WASHING PERIODS WHEN WORK MAY NOT BE IN PROGRESS.

EROSION CONTROL CERTIFICATE

ALL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED TO MY SATISFACTION IN ACCORDANCE WITH THE APPROVED PLANS AS OF THE DATE OF THIS SIGNATURE. THESE MEASURES ARE FOR TEMPORARY CONTROL ONLY AND THE UNDERSIGNED IS NOT RESPONSIBLE FOR THE FAILURE OF THESE MEASURES DUE TO DAMAGE FROM CONSTRUCTION PROCESSES OR SEVERE STORMS AND SHOULD BE CONTACTED IMMEDIATELY IN THE EVENT OF THE FAILURE OF ANY OF THESE MEASURES.

RUSSELL A. GARRISON _____ DATE _____

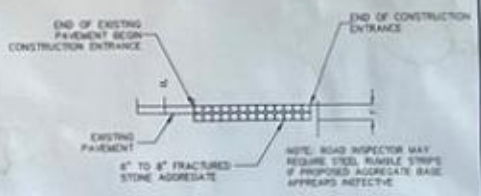


CONSTRUCTION ENTRANCE PLAN VIEW
NTS

LEGEND:

- (ARTIST SHALL USE DETAIL THIS PAGE)
- CONSTRUCTION ENTRANCE AREA (SEE DETAIL THIS PAGE)
- EQUIPMENT STORAGE AREA (SEE DETAIL THIS PAGE)
- EQUIPMENT SERVICE AREA (SEE DETAIL THIS PAGE)
- FIBER ROLL INSTALLATION (SEE DETAIL THIS PAGE)
- HAY BALE CHECK DAM (SEE DETAIL THIS PAGE)
- GRAVEL BAR (SEE DETAIL THIS PAGE)

CONTACT PERSON FOR ON-SITE MONITORING OF EROSION AND SEDIMENT CONTROL MEASURES IS:



CONSTRUCTION ENTRANCE SECTION
NTS



BAG CHECK DAM DETAIL
NTS



DESILTING BASIN DETAIL
NTS



EQUIPMENT SERVICE, STORAGE & WASH AREA SECTION
NTS



EARTHEN SWALE DETAIL
NTS

APPROVED FOR GRADING BY:

REVIEWED BY: _____ DATE _____



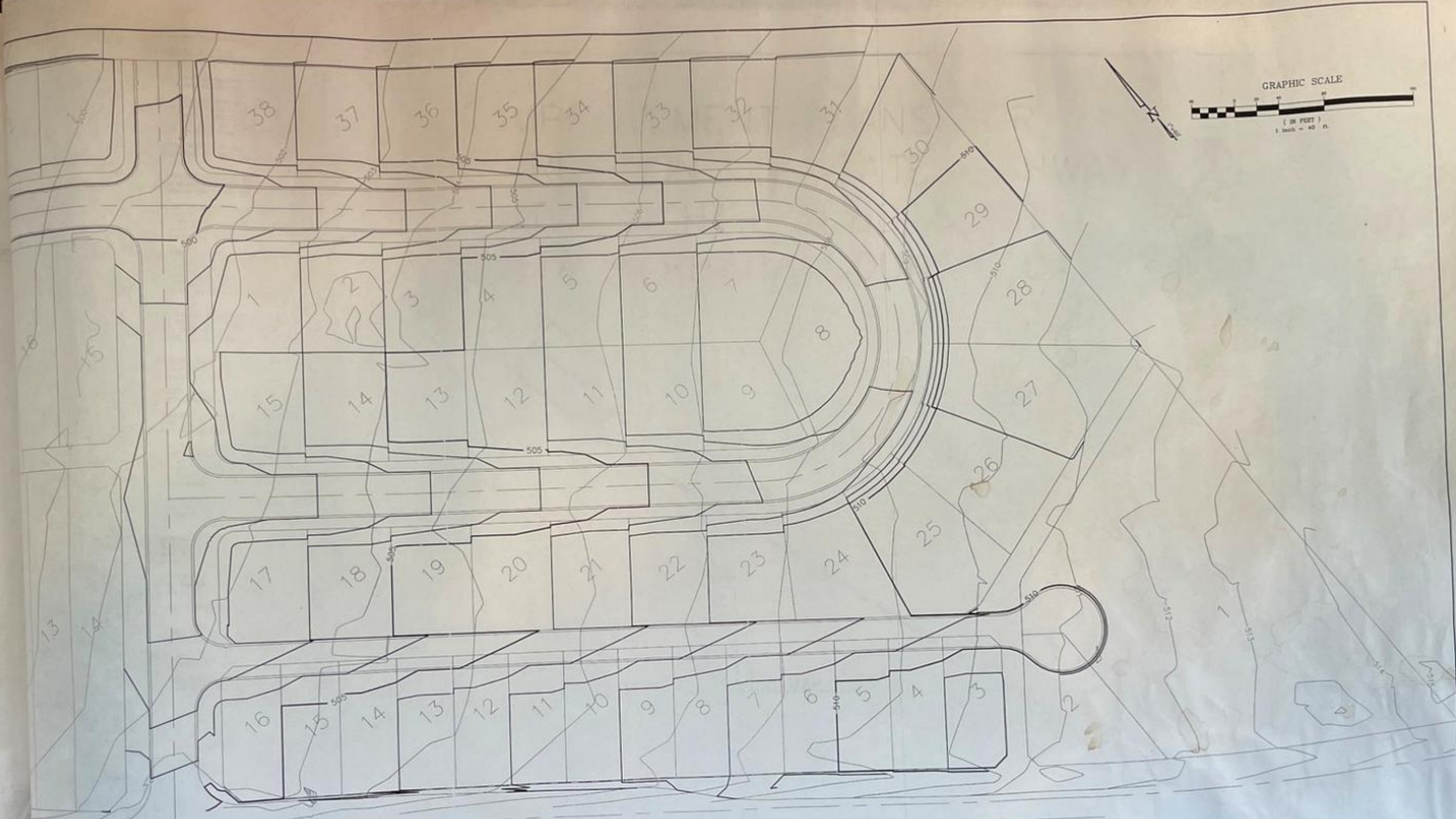
DESIGNED BY: J.S.R.
CHECKED BY: R.J.S.
REVISIONS
DATE DESCRIPTION

EROSION CONTROL PLAN FOR RANCHOIL SUBDIVISION

COUNTY OF SANTA BARBARA, CALIFORNIA

RUSSELL A. GARRISON _____ DATE _____
DENNIS BETHEL & ASSOCIATES, INC.
1000 N. MICHIGAN STREET, SUITE 200
SANTA BARBARA, CALIFORNIA 93101-4141
SCALE: AS SHOWN

APPROVED: _____ DATE _____
BY: _____
S.B. CO. DIRECTOR OF PUBLIC WORKS
SHEET 5 OF 4



TOTAL SHEETS
6



DESIGNED BY: J.S.W.		PROPOSED CONTOURS FOR RANCHOIL SUBDIVISION COUNTY OF SANTA BARBARA, CALIFORNIA	
CHECKED BY: R.J.D.			
DATE: 10/1/07		DATE: 10/1/07	
DESCRIPTION: 500' 505' 510' 515'		SCALE: AS SHOWN	
APPROVED FOR GRADING BY: [Signature]		APPROVED BY: [Signature]	
REVIEWED BY: [Signature]		DATE: 10/1/07	

MICHAEL SPITZ, COUNTY OF SANTA BARBARA
 THE UNDERSIGNED CIVIL ENGINEER CERTIFIES THAT GRADING WORK WILL BE SUPERVISED IN ACCORDANCE WITH SANTA BARBARA CO. ORDINANCE NO. 4477

THE HIGHWAY CHORDS PRESSURE PIPE SHALL BE USED AND SHALL
PROVIDE WATER WORKS ASSOCIATION C-800. PIPE SHALL BE
AND WITHIN A WORKING PRESSURE OF AT LEAST 150 PSI.
BE MADE AT LEAST THREE FEET OF COVER. ALL VALVES SHALL
GROUND-SEALED GATE VALVES, ANWR C-509.

THE TOP OF THIS PROJECT IS THE TOP OF A SET 5/8" REBAR
NEAR THE NORTH END OF BELL DRIVE, THE ASSUMED ELEVATION
OF THE ROAD FEET.

ON THE BASIS OF BEARINGS FOR THIS PROJECT IS THE LINE BETWEEN
CONCRETE HIGHWAY MONUMENTS ON THE SOUTH SIDE OF HWY 166,
NAD 83 72°37'W AS SHOWN ON 15 MB 287.

ANY ARCHAEOLOGICAL OR PALEONTOLOGICAL REMAINS OR HISTORICAL
ARCHAEOLOGICAL CONSTRUCTION ON ANY SITE, EXCAVATION SHALL BE
STOPPED AND REDIRECTED UNTIL A COUNTY QUALIFIED ARCHAEOLOGIST
AND A NATIVE AMERICAN REPRESENTATIVE OR HISTORIAN, ARE
APPROPRIATE TO EVALUATE THE FIND.

IF REMAINS ARE ENCOUNTERED, THEY WILL BE TREATED ACCORDING TO
FEDERAL AND STATE ARCHAEOLOGICAL RESOURCE PROTECTION ACT
REGULATIONS (40 CFR PART 7). CEQA APPENDIX K, AND THE PUBLIC
SECTION 509.98. THE CALIFORNIA STATE AND LOCAL PROCEDURES
REQUIRE THE LOCAL CORNERER TO DETERMINE THE ORIGIN OF THE
REMAINS ARE OF NATIVE AMERICAN ORIGIN, PROCEDURES ESTABLISHED
BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION.

CEQA CODE SECTION 5097.98 REGARDING NATIVE AMERICAN
HERITAGE MEASURES SHALL BE APPLIED CONSISTENT WITH THE
REGULATIONS OF SANTA BARBARA COUNTY, THE STATE OFFICE OF
HISTORY AND THE STATE OF CALIFORNIA NATIVE AMERICAN HERITAGE

ALL MATERIALS AND CONSTRUCTION WORK WITHIN STATE RIGHT OF WAY SHALL
CONFORM WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION
STANDARDS AND STANDARD PLANS DATED MAY 2005.

WITHIN STATE RIGHT OF WAY, AN ENDOCHAMMENT PERMIT SHALL
OBTAIN FROM THE CALIFORNIA DEPARTMENT OF TRANSPORTATION.

A PERMIT OF AN ENDOCHAMMENT PERMIT BY CALTRANS, THE
STATE SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE STATE FOR
THE STATE RIGHT OF WAY FOR REVIEW AND APPROVAL.

THE CONTRACTOR SHALL SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT
AND MAINTAIN BARRICADES, LIGHTS AND SIGNS NECESSARY TO GIVE
PRIORITY TO THE PUBLIC AT ALL TIMES. THE USE OF TEMPORARY
BARRICADES SHALL BE APPROVED BY THE CALTRANS INSPECTOR PRIOR TO
INSTALLATION. CONFORMANCE TO SECTION 12 "CONSTRUCTION AREA TRAFFIC
CONTROL" OF THE CALTRANS STANDARD SPECIFICATIONS.

ALL WORK IN TRENCHES IN EXISTING PAVEMENT WITHIN STATE RIGHT OF WAY
SHALL BE BOTH SURROUNDING OF PAVEMENT IN A NEAT AND UNIFORM
MANNER CONFORM TO SECTION 19, "EARTHWORK" OF THE CALTRANS
STANDARD SPECIFICATIONS.

ALL PROPOSED UNDERGROUNDING OF UTILITIES WITHIN STATE RIGHT
OF WAY SHALL BE APPROVED BY THE STATE. ALL UTILITY WORK WITHIN STATE RIGHT
OF WAY SHALL BE DONE IN A MANNER THAT DOES NOT INTERFERE WITH THE
RIGHTS OF WAY.

THE CONTRACTOR SHALL MAKE IMPROVEMENTS ON THESE DRAWINGS ARE
FOR THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND
DEPTHS OF UTILITIES PRIOR TO BEGINNING WORK.

THE CONTRACTOR SHALL PROTECT AND REPAIR, AT HIS EXPENSE, ANY UTILITIES
ENCOUNTERED.

ALL STATE RIGHT OF WAY SHALL CONFORM TO SECTION 16,
"SUBGRADE" OF THE CALTRANS STANDARD SPECIFICATIONS.

ALL STATE RIGHT OF WAY SHALL CONFORM TO SECTION 17,
"PAVEMENT" OF THE CALTRANS STANDARD SPECIFICATIONS.

ALL UNDERGROUNDING SERVICE ALERT TWO WORKING DAYS PRIOR
TO BEGINNING WORK BY CALLING 1-800-422-4133.

PROJECT MAP

DEVELOPMENT SITE

ALISO CANYON RD

LEGEND

ABBREVIATIONS	TO
TOP OF CURB	FL
FLOWLINE	EP
EDGE OF PAVEMENT	AC
ASPHALT CONCRETE	HP
HIGH POINT	LP
LOW POINT	FL
FINISHED GRADE	BN
BACK OF WALK	TOX
TOP OF WALL	LOF
TOP OF FOOTING	GB
GRADE BREAK	

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OF THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SANTA BARBARA IS CONFIDED TO A REVIEWER ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITY FOR PROJECT DESIGN.

FIRM: DENNIS BETHEL & ASSOCIATES, INC.
ADDRESS: 2450 PROFESSIONAL PKWY., SUITE 120
TELEPHONE: (805) 934-5767

RUSSELL J. GARRISON
PROFESSIONAL REGISTRATION NUMBER:
R.C.E. 39987 DATE OF EXPIRATION: 6/30/08
DISCIPLINE: CIVIL ENGINEER

DEVELOPMENT

SAN LUIS CRISPO COUNTY

- PROJECT
EXTENT

NEW CUYAMA

VICINITY MAP

NOTES

INDEX	
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
PLAN STATION 0+00 - 11+00	2
PLAN STATION 11+00 - 22+00	3
PLAN STATION 22+00 - 48+00	4
PLAN STATION 48+00 - 74+00	5
PLAN STATION 74+00 - 82+00	6
DETAILS	7

WATER SYSTEM APPROVED BY:	DATE
SEWER SYSTEM APPROVED BY:	DATE
ELECTRICAL SYSTEM APPROVED BY:	DATE
GAS SYSTEM APPROVED BY:	DATE
STONE SYSTEM REVIEWED BY:	DATE

REVIEWED BY CA. DEPT. OF TRANSPORTATION
DATE: _____
FIRE DEPARTMENT APPROVAL: _____

BY R.J.C.	SCALE	PROJECT NO.
RECOMMENDED BY	NONE	0542



**DENNIS BETHEL
& ASSOCIATES.**
DALLAS, TEXAS

2450 Professional Parkway, Suite 120
Santa Maria, California 93455
(805) 934-5787

WINTER 1985

IMPROVEMENT PLANS
FOR
RANCHOIL SUBDIVISION

QEST NO	1 OF 1
FILE NO	

COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

REVISION		CONSTRUCTION STARTED	REVIEWED BY:		
		CONSTRUCTION COMPLETED			
		AS BUILT		DIRECTOR OF PUBLIC WORKS	DATE

ALISOS CANYON RD

PERKINS RD

NEW CUYAMA

STATE HIGHWAY 166

BELL RD

CUYAMA

VICINITY MAP

N.T.S.

04/05/06
0542 PIP DWG

WATER SYSTEM APPROVED BY:	DATE
SEWER SYSTEM APPROVED BY:	DATE
ELECTRICAL SYSTEM APPROVED BY:	DATE
GAS SYSTEM APPROVED BY:	DATE
STORM SYSTEM REVIEWED BY:	DATE



**DENNIS BETHEL
& ASSOCIATES,**
CIVIL ENGINEERS

2450 Professional Parkway, Suite 120
Santa Maria, California 93455
(805) 934-5767

REVIEWED BY CA. DEPT. OF TRANSPORTATION:

DATE

FIRE DEPARTMENT APPROVAL:

DATE

DESIGN BY:

J.S.W.

CHECKED BY:

R.J.G.

DRAWN BY:

J.S.W.

APPROVAL RECOMMENDED BY:

SCALE

NONE

PROJECT NO.

0542

IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION

RUSSELL J. GARRISON

RCE 59987

DATE

SHEET NO.

1 OF 6

FILE NO.