

OC PUBLIC WORKS DEPARTMENT

JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS KEVIN HILLS, COUNTY SURVEYOR ESPERANZA CHANNEL (E06)

WALL MONITORING SURVEY



BASIS OF BEARINGS

THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00001767.

THIS COMBINATION FACTOR WAS HELD AT: CP# 454 N: 2269312.22 E: 6102269.45 EL: 491.16

ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. 2A-52-06 ELEV. = 534.801' YEAR LEVELED: 2006

NAVD 1988 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: FOUND 4" OCS ALUMINUM BENCHMARK DISK STAMPED "2A-52-06", SET IN THE NORTHEASTERLY CORNER OF A 4 FT. BY 8 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHWESTERLY CORNER OF THE INTERSECTION OF YORBA LINDA BOULEVARD AND SAN ANTONIO 32 FT. WESTERLY OF THE CENTERLINE OF SAN ANTONIO AND 117 FT. NORTHERLY OF THE CENTERLINE OF YORBA LINDA BOULEVARD. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

SHEET INDEX

SHEET SHEETS 2-3

TITLE SHEET BOUNDARY MAP MONITORING STATIONS SHEET 4

BASIS OF STATIONING

THE BASIS OF STATIONING FOR THE ALIGNMENT SHOWN HEREON IS 52+93.86 HELD AT THE CENTERLINE INTERSECTION OF THE ESPERANZA CHANNEL (E06) PER R6 & DOMINGUEZ RANCH DR PER R6 & INCREASING NW'LY

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE AN ALIGNMENT & RIGHT OF WAY ESTABLISHMENT FOR A CHANNEL WALL MONITORING PROJECT.

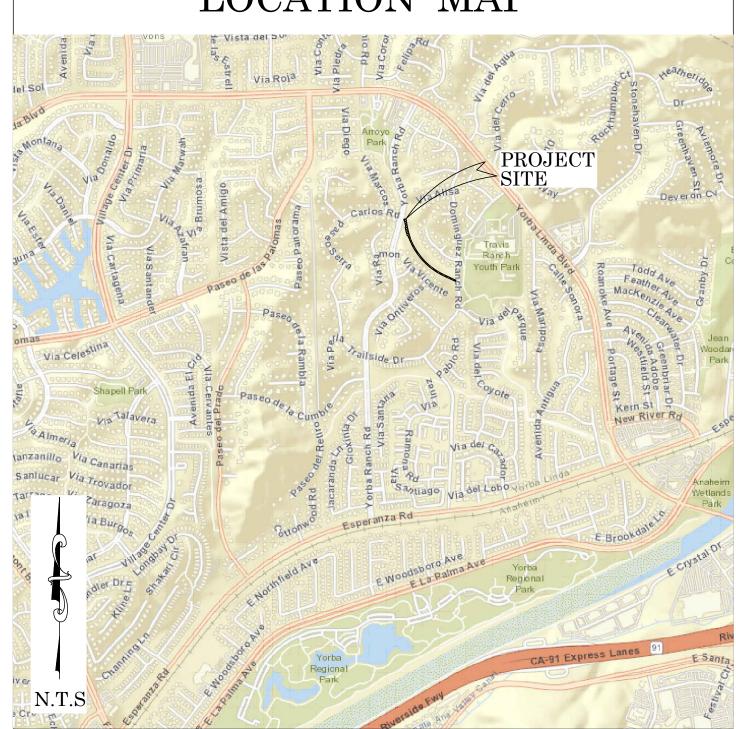


PROJECT LIMITS: FROM DOMINGUEZ ROAD TO YORBA RANCH ROAD DATE OF SURVEY: 05/16/2022 BY: T. LOFGREEN & CREW MAPPING BY: T. LOFGREEN/I. ISLAS OFFICE CHECK BY: E. MEDINA, PLS

COUNTY OF ORANGE

BY: T. LOFGREEN SCALE: N.T.S. | W.O. #EF38001 | FILE #2122PW-0P0002 REVISIONS FILE: ESPERANZA CHANNEL BOUNDARY 2022.DWG

LOCATION MAP



SENIOR LAND SURVEYOR'S CERTIFICATE:

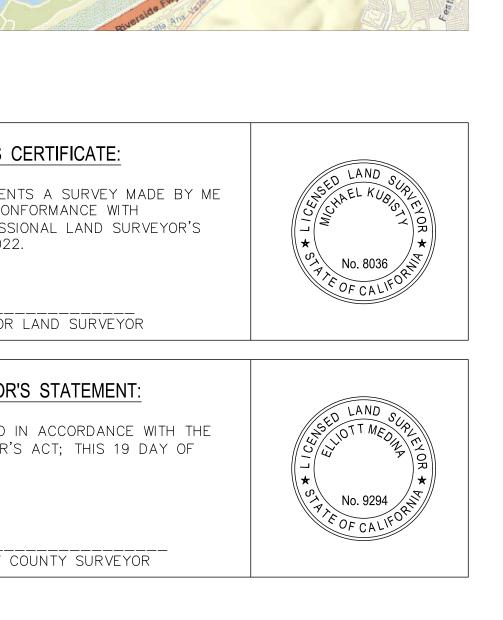
THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 19 DAY OF JULY, 2022.

MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR

DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 19 DAY OF JULY, 2022.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



OC Survey/Field Services Boundary Analysis & Mapping



THIS IS A CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN), FROM WHICH DATA CAN BE DOWNLOADED HERE: HTTP://SOPACCSRC.UCSD.EDU/.

MONUMENT NOTES

- 1 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R2), ACCEPTED AS A CENTERLINE EC OF DOMINGUEZ RANCH ROAD OF (R2).
- 2 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R1), ACCEPTED AS POINT ON THE NE'LY PROLONGATION OF THE CENTERLINE OF DOMINGUEZ RANCH ROAD, N45°27'04"E 0.14 FEET FROM THE BC OF CENTERLINE DOMINGUEZ RANCH ROAD.
- 3 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R1), ACCEPTED AS POINT ON CURVE (POC) CENTERLINE DOMINGUEZ RANCH ROAD ON THE SOUTHERLY LINE OF (R1).
- 4 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R1), ACCEPTED AS POINT ON CENTERLINE DOMINGUEZ RANCH ROAD, NO0°32'29"W 0.06 FEET FROM THE CENTERLINE EC DOMINGUEZ RANCH ROAD OF (R1).
- 5 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN A.C., PER (R1), S89°27'31"E 0.13' FROM THE CENTERLINE INTERSECTION OF VIA BERNARDO & DOMINGUEZ RANCH ROAD OF (R1).
- 6 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R1), ACCEPTED AS POINT ON CENTERLINE DOMINGUEZ RANCH ROAD, S00°32'29"W 0.22 FEET FROM THE BC OF CENTERLINE DOMINGUEZ RANCH ROAD OF (R1).
- 7 FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R1), ACCEPTED AS POINT ON CENTERLINE DOMINGUEZ RANCH ROAD, S08°36'13"W 0.41 FEET FROM THE CENTERLINE EC OF DOMINGUEZ RANCH ROAD OF (R1).
- 8 FOUND FOUR LEAD AND TACKS ON TOP OF CURB, ACCEPTED AS TIES PER (R1).
- 9 FOUND 1 INCH IRON PIPE WITH PLASTIC CAP STAMPED "LS 2921", DOWN 0.40 FEET IN DIRT, PER (R1), ACCEPTED AS THE SW'LY CORNER OF LOT 1 OF (R1)
- 10 FOUND 1 INCH IRON PIPE WITH PLASTIC CAP STAMPED "LS 2921", DOWN 1.30 FEET IN DIRT, PER (R1), ACCEPTED AS A POINT ON THE S'LY LINE OF LOT 1 OF (R1), S89°28'03"E 0.21 FEET FROM THE SE'LY CORNER OF LOT 1 OF (R1).
- 11 FOUND 1 INCH IRON PIPE WITH TACK AND 3/4" TAG STAMPED "LS 2921", DOWN 0.20 FEET IN DIRT, PER (R1), ACCEPTED AS THE N'LY MOST CORNER OF LOT 36 OF (R2).
- 12 FOUND 2 INCH IRON PIPE WITH TACK AND 3/4" TAG STAMPED "LS 2921" DOWN 0.80 FEET IN DIRT ACCEPTED AS POINT ON THE NE'LY LINE OF LOT 36 OF (R2), S48°19'44"E 0.14 FEET FROM THE NE'LY MOST CORNER OF LOT 36 OF (R2).
- 13 FOUND LEAD, TACK AND 3/4"TAG STAMPED "LS 2921", PER (R2), FLUSH IN CONCRETE, ACCEPTED AS CENTERLINE EC OF YORBA RANCH ROAD OF (R2).
- 14 FOUND 2 INCH IRON PIPE AND 3/4" TAG STAMPED "LS 2921", DOWN 1.00 FEET IN DIRT, PER (R4), ACCEPTED AS AS POINT ON CENTERLINE BC OF YORBA RANCH ROAD
- 15 FOUND 2 INCH IRON PIPE AND 3/4" TAG STAMPED "LS 2921", DOWN 1.00 FEET IN DIRT, PER (R4), N51°06'10"E 0.19 FEET FROM THE CENTERLINE EC OF YORBA RANCH ROAD OF (R1).
- [16] FOUND PUNCHED SPIKE & WASHER STAMPED "LS 2921", FLUSH IN AC, PER (R4), ACCEPTED AS A CENTERLINE BC OF CARLOS ROAD OF (R4).
- [17] FOUND 1 INCH IRON PIPE WITH TACK AND 3/4" TAG STAMPED "LS 2921", DOWN 0.30 FEET IN DIRT, PER (R1), N85°24'53"E 0.35 FEET FROM THE EC OF THE W'LY RIGHT OF WAY YORBA RANCH ROAD OF (R4).
- 18 FOUND 2 INCH IRON PIPE AND 3/4" TAG STAMPED "LS 2921", DOWN 0.40 FEET IN DIRT, PER (R4), ACCEPTED AS CENTERLINE YORBA RANCH ROAD, S23°07'35"E 0.16' FEET FROM THE CENTERLINE BC OF YORBA RANCH ROAD OF (R4).
- 19 FOUND 2 INCH IRON PIPE AND 3/4" TAG STAMPED "LS 2921", DOWN 0.40 FEET IN DIRT, PER (R4), ACCEPTED AS CENTERLINE BC OF YORBA RANCH ROAD OF (R4).
- 20 FOUND 2 INCH IRON PIPE AND 3/4" TAG STAMPED "LS 2921", DOWN 0.40 FEET IN DIRT, PER (R4), N21°56'46"E 0.05 FEET FROM THE BC OF THE E'LY RIGHT OF WAY OF YORBA RANCH ROAD OF (R4).
- [21] FOUND 2 INCH IRON PIPE AND 3/4" TAG STAMPED "LS 2921", DOWN 0.60 FEET IN DIRT, PER (R1), N32°47'51"E 0.04 FEET FROM THE MOST N'LY CORNER OF LOT 42 OF

REFERENCES

(R1) = TRACT NO. 10265, MM 434/14-17

(R2) = TRACT NO. 9957, MM 424/39-43

(R3) = EASEMENT DEED, O.R. 13915/747

(R4) = TRACT NO. 10266, MM 434/44-46(R5) = CL TIES CITY OF YORBA LINDA TRACT NO. 10266

(R6) = COUNTY OF ORANGE IMPROVEMENT PLAN E06-701-3

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CRTN, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS OEOC AND CCCS BEING NORTH 45°17'29.78" WEST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCE MULTIPLY A GRID DISTANCE BY 1.00001767.

COMBINATION FACTOR WAS HELD AT POINT NUMBER 454 N: 2269312.217', E: 6102269.448', ELEVATION= 491.16'.

RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER

SAID RECORD. ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

ESTABLISHMENT NOTES

- ESTABLISHED THE CENTERLINE OF DOMINGUEZ RANCH ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTES 1 AND 2
- ESTABLISHED THE CENTERLINE OF DOMINGUEZ RANCH ROAD HOLDING RECORD RADIUS OF 300.00 FEET PER (R2) TANGENT TO LINE ESTABLISHMENTS (A) AND (C)
- ESTABLISHED THE CENTERLINE OF DOMINGUEZ RANCH ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTES 4 AND 6
- ESTABLISHED THE CENTERLINE OF DOMINGUEZ RANCH ROAD HOLDING RECORD RADIUS OF 500.00 FEET PER (R1) TANGENT TO LINE ESTABLISHMENTS AND
- ESTABLISHED THE CENTERLINE OF DOMINGUEZ RANCH ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTE 7 AND EST. NOTE 6.
- S.F.N ESTABLISHED THE CENTERLINE BC OF DOMINGUEZ RANCH ROAD BY HOLDING TIES PER (R5).
- ESTABLISHED THE S'LY LINE OF LOT 1 OF (R1) HOLDING A LINE BETWEEN MONUMENT NOTES 9 AND 10
- ESTABLISHED THE NE'LY LINE OF LOT 36 OF (R2) HOLDING A LINE BETWEEN MONUMENT NOTES 11 AND 12
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTES 13 AND 14
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTES 18 AND 19
- ESTABLISHED THE CENTERLINE POINT OF INTERSECTION OF YORBA RANCH ROAD BY LEAST SQUARE ADJUSTMENT BETWEEN MONUMENTS 14 AND 18
- ESTABLISHED THE CENTERLINE POINT OF INTERSECTION OF YORBA RANCH ROAD BY LEAST SQUARE ADJUSTMENT BETWEEN MONUMENTS 14 AND 18
- S.F.N. ESTABLISHED THE CENTERLINE INTERSECTION OF YORBA RANCH ROAD AND CARLOS ROAD HOLDING A RECORD DISTANCE OF 126.56' PER (R4) E'LY OF MON 16 AND PERPENDICULAR TO LINE ESTABLISHMENT NOTE (). FITS RECORD ANGLE PER (R4)
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTES () AND ().
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTE 16 AND ESTABLISHMENT NOTE (M)
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD AND THE PROLONGATION THEREOF BY HOLDING A LINE BETWEEN MONUMENT NOTE [19] AND ESTABLISHMENT NOTE (*).
- S.FN. ESTABLISHED THE CENTERLINE BC OF YORBA RANCH ROAD HOLDING RECORD RADIUS OF 450.00 FEET PER (R4) TANGENT TO LINE ESTABLISHMENTS (N) AND (P).
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD HOLDING RECORD RADIUS OF 450.00 FEET PER (R4) TANGENT TO LINE ESTABLISHMENTS (N) AND (P) .
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD HOLDING RECORD RADIUS OF 2000.QO FEET PER (R1) TANGENT TO LINE ESTABLISHMENTS N AND 1.
- ESTABLISHED THE E'LY R/W OF YORBA RANCH ROAD HOLDING A LINE PARALLEL WITH, & A RECORD DISTANCE OF 50' PER (R4) FROM LINE ESTABLISHMENT .
- ESTABLISHED THE E'LY R/W OF YORBA RANCH ROAD HOLDING A LINE PARALLEL WITH, & A RECORD DISTANCE OF 50' PER (R4) FROM LINE ESTABLISHMENT .
- ESTABLISHED THE CENTERLINE OF YORBA RANCH ROAD HOLDING RECORD RADIUS OF 458.24 FEET PER (R4) TANGENT TO LINE ESTABLISHMENTS TAND U
- ESTABLISHED THE E'LY R/W OF YORBA RANCH ROAD HOLDING A LINE PARALLEL, & CONCENTRIC WITH, & A RECORD DISTANCE OF 50' PER (R4) FROM LINE ESTABLISHMENT (\$)
- ESTABLISHED THE W'LY R/W OF DOMINGUEZ RANCH ROAD HOLDING A LINE PARALLEL WITH, & A RECORD DISTANCE OF 30' PER (R1) FROM LINE ESTABLISHMENT (C)
- ESTABLISHED THE POINT OF BEGINNING OF (R3) ON THE W'LY RIGHT OF WAY DOMINQUEZ RANCH ROAD HOLDING A RECORD DISTANCE OF 122.01 FEET PER (R3) S'LY FROM MONUMENT NOTE 10.
- ESTABLISHED HOLDING RECORD DISTANCE OF 53.20 FEET PER (R3), S'LY FROM MONUMENT 21 ALONG LINE ESTABLISHMENT NOTE .
- ESTABLISHED HOLDING RECORD DISTANCE OF 59.46 FEET PER (R3), N'LY FROM ESTABLISHMENT NOTE (2).

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING ESPERANZA CHANNEL (E06) WALL MONITORING SURVEY BOUNDARY MAP PROJECT LIMITS: FROM DOMINGUEZ ROAD TO YORBA RANCH ROAD DATE OF SURVEY: 05/16/2022 BY: T. LOFGREEN & CREW BY: T. LOFGREEN OFFICE CHECK BY: E. MEDINA, PLS

FIELD CHECK

SCALE: N.T.S.

ITEM

REVISIONS

MARK DATE

SHEET NO.

of

BY: T. LOFGREEN

W.O. #EF38001

FILE: ESPERANZA CHANNEL_BOUNDARY_2022.DWG

FILE #2122PW-0P0002

