

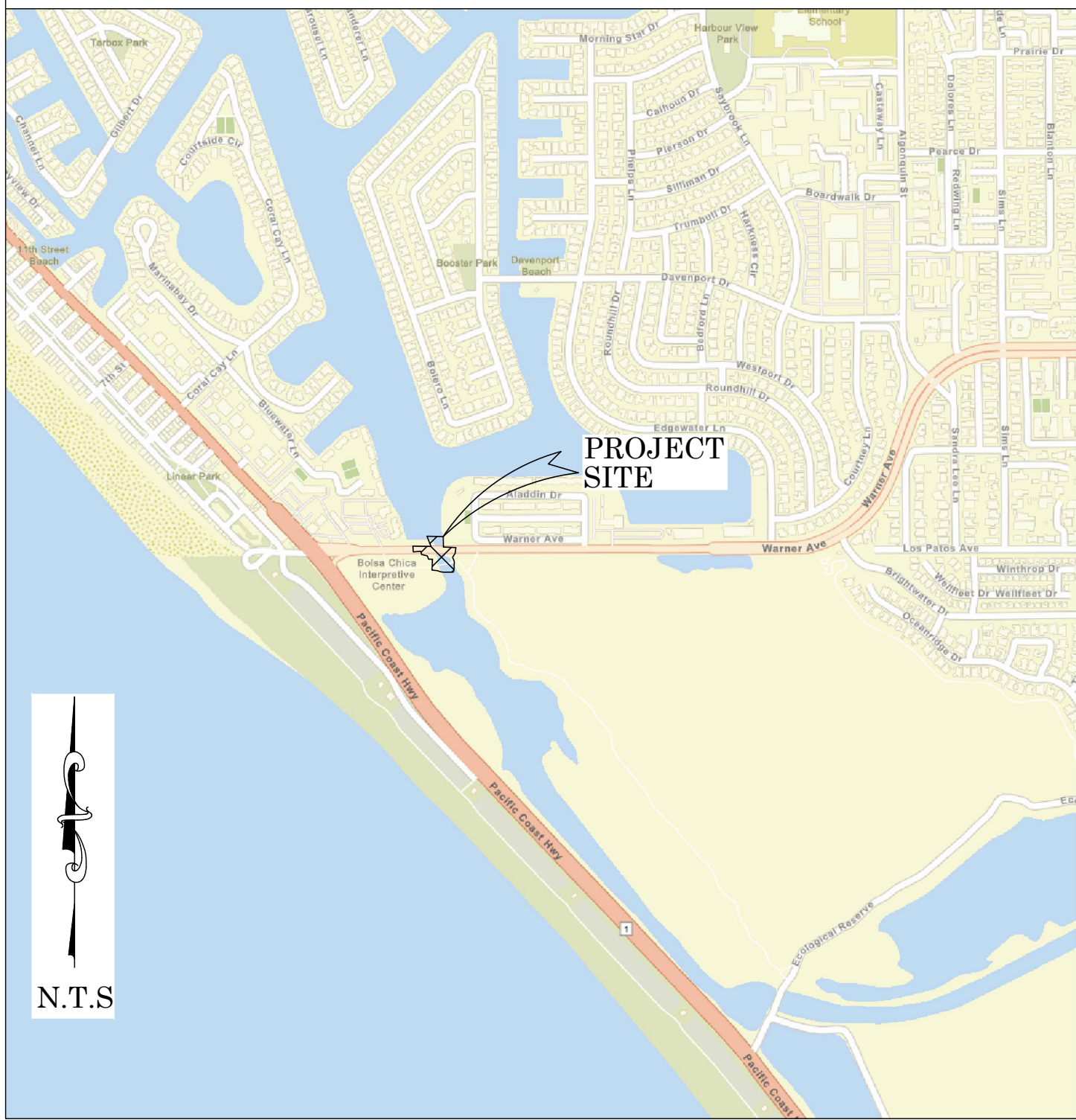


OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
BOLSA OUTLET



FLOOD CONTROL IMPROVEMENTS

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 SURVEYORS' ACT; THIS 9 DAY OF APRIL, 2024.

MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR



SENIOR LAND SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 9 DAY OF APRIL, 2024.

JESOM MORENO, PLS. SENIOR LAND SURVEYOR



FOUND CGPS "SACY"
N: 2218016.19
E: 6061432.27
THIS IS A CONTINUOUS GPS STATION
(CGPS) AND IS PART OF THE CALIFORNIA
SPATIAL REFERENCE NETWORK (CSRN)

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS STATIONS (FVPK) AND (SACY) BEING NORTH 23°25'58" EAST 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 DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00001906.
THIS COMBINATION FACTOR WAS HELD AT: CP# 2009
N: 2207307.88 E: 6011395.47 EL: 8.94'
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM (NAVD) 1988
BENCHMARK:
CALIFORNIA SPATIAL REFERENCE SYSTEM CONTINUOUS GLOBAL POSITIONING STATION (CGPS) "FVPK" ELEVATION (ORTHOMETRIC HEIGHT) = 80.165

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES.

SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEET 2-3	BOUNDARY MAP
SHEET 4-7	TOPOGRAPHIC MAP

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP AND RIGHT OF WAY ESTABLISHMENT FOR THIS PORTION OF BOLSA OUTLET CHANNEL.

CP# 2039
FOUND 2" IRON PIPE
& NAIL DOWN 1.5' IN DIRT
N: 2204059.33
E: 6013132.34

FOUND CGPS "FVPK"
N: 2188769.57
E: 6048756.26
THIS IS A CONTINUOUS GPS
STATION (CGPS) AND IS PART OF
THE CALIFORNIA SPATIAL
REFERENCE NETWORK (CSRN)

TOPOGRAPHIC MAPPING PROJECT

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		BOLSA OUTLET FLOOD CONTROL IMPROVEMENTS			
		TITLE SHEET			
		PROJECT LIMITS: THE PROJECT COVERS WARNER AVE IN HUNTINGTON BEACH, NEAR THE PACIFIC COAST HWY INTERSECTION, AND THE NEARBY S'LY PEDESTRIAN BRIDGE			
		DATE OF SURVEY: 01/17/2024		BY: J. RUSSO & CREW	
		MAPPING		BY: J. ISLAS	
		OFFICE CHECK		BY: J. MORENO, PLS	
		FIELD CHECK		BY: J. RUSSO & CREW	
		SCALE: N.T.S.		W.O. #EE24400S	
		FILE: BOLSA_OUTLET_TOPO_2024.DWG		FILE # 2324PW-CM0005	
MARK	DATE	ITEM		SHEET NO. 1 of 7	
REVISIONS					

NOTES

ALL BOUNDARY LINES NOT SHOWN IN BOLD ARE FOR GRAPHICAL REPRESENTATION ONLY.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCE MULTIPLY GRID DISTANCE BY A COMBINED FACTOR OF 1.0001906.

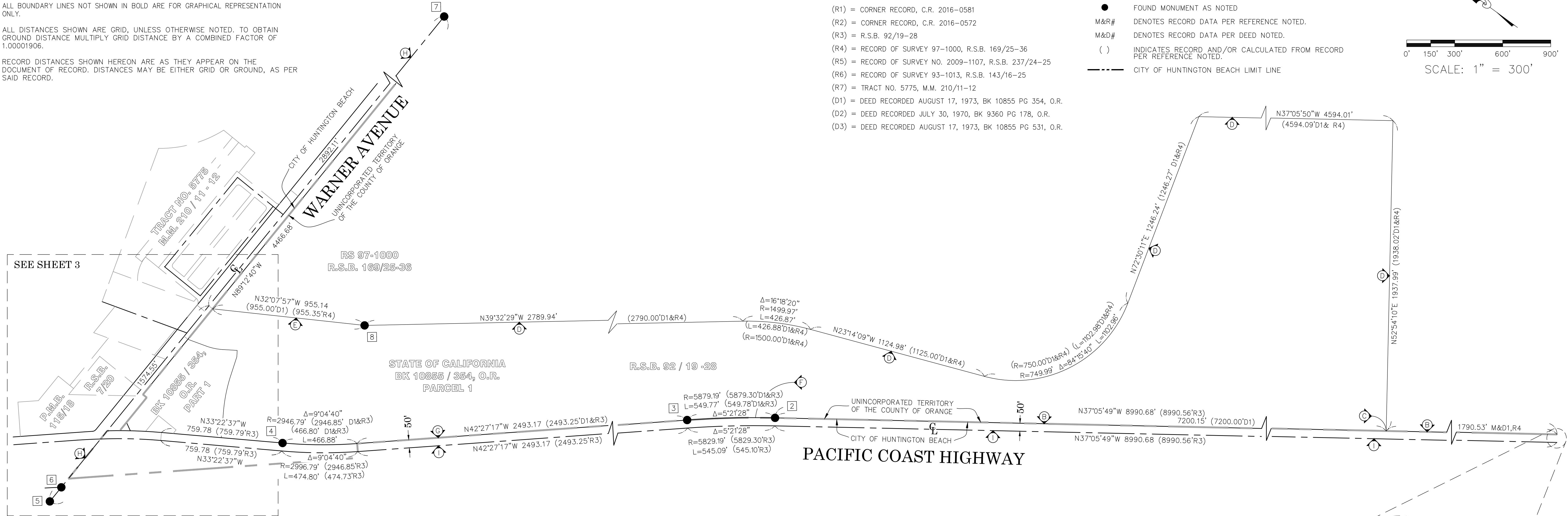
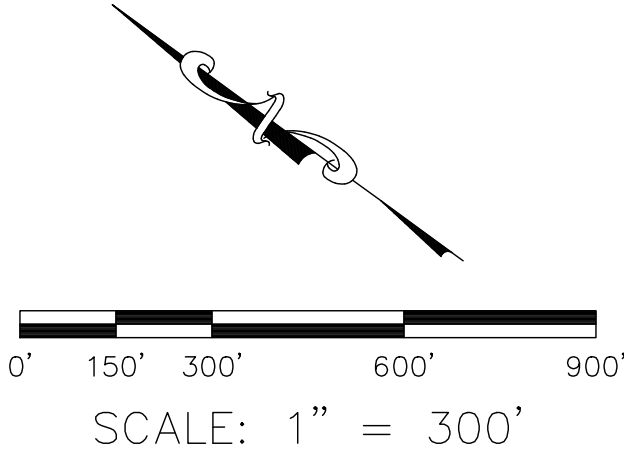
RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

REFERENCES

- (R1) = CORNER RECORD, C.R. 2016-0581
(R2) = CORNER RECORD, C.R. 2016-0572
(R3) = R.S.B. 92/19-28
(R4) = RECORD OF SURVEY 97-1000, R.S.B. 169/25-36
(R5) = RECORD OF SURVEY NO. 2009-1107, R.S.B. 237/24-25
(R6) = RECORD OF SURVEY 93-1013, R.S.B. 143/16-25
(R7) = TRACT NO. 5775, M.M. 210/11-12
(D1) = DEED RECORDED AUGUST 17, 1973, BK 10855 PG 354, O.R.
(D2) = DEED RECORDED JULY 30, 1970, BK 9360 PG 178, O.R.
(D3) = DEED RECORDED AUGUST 17, 1973, BK 10855 PG 531, O.R.

LEGEND

- FOUND MONUMENT AS NOTED
M&R# DENOTES RECORD DATA PER REFERENCE NOTED.
M&D# DENOTES RECORD DATA PER DEED NOTED.
() INDICATES RECORD AND/OR CALCULATED FROM RECORD PER REFERENCE NOTED.
--- CITY OF HUNTINGTON BEACH LIMIT LINE



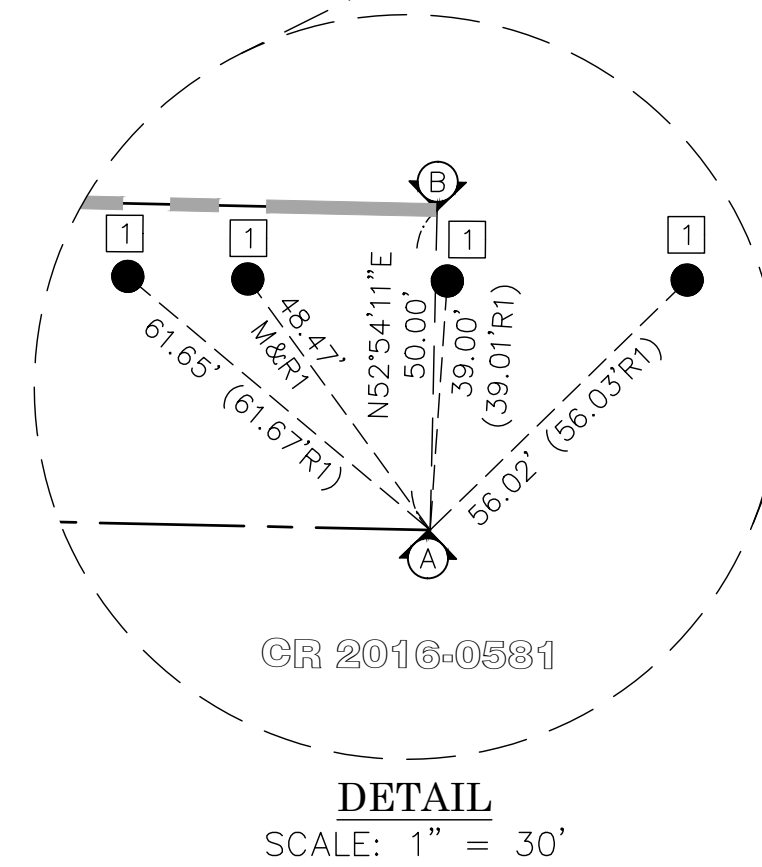
ESTABLISHMENT NOTES

- A ESTABLISHED THE CENTERLINE EC OF PACIFIC COAST HIGHWAY FROM 4 FND TIES PER R1.
B ESTABLISHED THE NORTHEASTERLY RIGHT OF WAY OF PACIFIC COAST HIGHWAY FROM MONUMENT [2] TO A POINT PERPENDICULAR TO AND A RECORD DISTANCE OF 50 FEET PER R3 FROM ESTABLISHMENT NOTE A.
C ESTABLISH THE P.O.B. OF BK 10855, PAGE 354, O.R. BY RECORD DISTANCE FROM THE SOUTHEASTERLY TERMINUS OF ESTABLISHMENT NOTE B.
D ESTABLISHED THE SOUTHEASTERLY, NORTHEASTERLY, NORTHWESTERLY LINES OF BK 10855, PAGE 354, O.R. BY GRANT BOUNDARY LINE ADJUSTMENT BETWEEN ESTABLISHMENT NOTE C AND MONUMENT [8].
E ESTABLISH THE NORTHEASTERLY LINE OF BK 10855, PAGE 354, O.R. BY HOLDING MONUMENT [8] AND HOLDING MONUMENT [9] FOR LINE, INTERSECTING THE SOUTHEASTERLY LINE OF WARNER AVENUE.
F ESTABLISHED NW'LY RIGHT OF WAY OF PACIFIC COAST HIGHWAY CURVE BY HOLDING RECORD DATA PER R3 NORTHWESTERLY FROM MONUMENT [2].
G ESTABLISHED THE NORTHEASTERLY RIGHT OF WAY LINE OF PACIFIC COAST HIGHWAY BY GRANT BOUNDARY LINE ADJUSTMENT BETWEEN MONUMENT [3] AND [4].
H ESTABLISHED THE CENTERLINE OF WARNER AVENUE BETWEEN MONUMENTS [5] AND [7].
I ESTABLISHED THE CENTERLINE OF PACIFIC COAST HIGHWAY 50.00 FEET SOUTHWESTERLY AND PARALLEL WITH THE NORTHEASTERLY RIGHT OF WAY LINE OF PACIFIC COAST HIGHWAY.

- J ESTABLISHED THE CENTERLINE OF PACIFIC COAST HIGHWAY BY HOLDING A RECORD RADIUS OF 3003.45' (3003.51') PER R3 TANGENT TO LINE ESTABLISHMENT I.
K ESTABLISHED THE SOUTHERLY RIGHT OF WAY OF WARNER AVENUE HOLDING A RECORD DISTANCE OF 30.00' PER D3 SOUTHERLY OF AND PARALLEL WITH LINE ESTABLISHMENT H.
L ESTABLISHED THE RIGHT OF WAY OF WARNER AVENUE SOUTHERLY PER D3 AND NORTHERLY PER D2, 60.00' AND PARALLEL WITH ESTABLISHMENT H.
M ESTABLISHED THE BOUNDARIES BEING DESCRIBED PER D3 BY HOLDING RECORD DATA.
N ESTABLISHED THE WESTERLY LINE OF PARCEL 2 OF PARCEL 7 OF D2 BY HOLDING A RECORD DISTANCE 386.08' PER D2, WESTERLY ALONG LINE ESTABLISHMENT H FROM ESTABLISHMENT J AND HOLDING A RECORD DISTANCE OF 22.00' PER R5 EASTERLY FROM MONUMENT [12].
O ESTABLISHED THE CENTERLINE OF THE CHANNEL 200.00 FEET PARALLEL WITH AND NORTHEASTERLY OF ESTABLISHMENT NOTE N.
P ESTABLISHED THE CENTERLINE INTERSECTION OF WARNER AVENUE AND PACIFIC COAST HIGHWAY FROM 3 FND TIES PER R2.
Q ESTABLISHED THE SOUTHWESTERLY CORNER OF R7 BY HOLDING RECORD DATA PER R7.

MONUMENT NOTES

- [1] FND MAG. NAIL & WASHER STAMPED "LS 5411" IN METAL BARRIER WOOD POST PER R1
[2] FND 2" IP & TAG ILLEGIBLE, DN 1.8'. ACCEPTED AS 2" IP & DIV OF HWYS TAG PER R2 FOR BC OF NORTHEASTERLY RIGHT OF WAY OF PACIFIC COAST HIGHWAY.
[3] FND 2" IP, OPEN, DN 1.7'. ACCEPTED AS 2" IP & DIV OF HWYS TAG PER R2, N84°41'40"E, 0.19' FROM EC RIGHT OF WAY OF PACIFIC COAST HIGHWAY
[4] FND 2" IP & DIV OF HWYS TAG PER R2, FLUSH. ACCEPTED AS BC OF NORTHEASTERLY RIGHT OF WAY OF PACIFIC COAST HIGHWAY.
[5] FND 2" IP & OCS TAG STAMPED "TIE" PER R6, DN 2.0' IN SAND ALONG THE WESTERLY PROLONGATION OF WARNER AVENUE CENTERLINE.
[6] FND 2" IP PUNCHED BRASS DISC STAMPED "CALIF.DIV. OF HIGHWAYS IN WELL PER R6. ACCEPTED AS THE CENTERLINE INTERSECTION OF WARNER AVENUE AND PACIFIC ELECTRIC RAILWAY AS SHOWN ON R6.
[7] FND MAG SPIKE W/CITY OF H.B. WASHER DN. 0.10', NO REF. ACCEPTED AS POSITION OF 2" IP W/TAG "CITY OF H.B. - R.C.E. 10622" PER R3 & R4 AND AS A S.E. COR., N.W. 1/4, FRAC. SEC. 29, T.5S., R.11W.
[8] FND 2" IP OPEN, DN 0.3', NO REF. ACCEPTED AS LOCATION OF ANGLE POINT OF PARCEL 1 OF D1.
[9] FND 2" IP & TAG STAMPED "RCE 9645", PER R4, DN 0.2', N32°07'57"W 0.14'. HELD FOR PROLONGATION OF THE NE'LY LINE OF D1.
[10] FND LEAD, TACK & TAG STAMPED "LS 5411" IN TC FLUSH, PER R2.
[11] FND LEAD, TACK & TAG STAMPED "CALTRANS" IN TC FLUSH PER R2.
[12] FND LEAD, NAIL & TAG STAMPED "CITY OF HB" FLUSH IN CONC. BULKHEAD WALL PER R5. ACCEPTED AS 22.00' OFFSET TO THE EASTERLY TERMINUS OF THE NORTHERLY LINE OF PARCEL 1 OF PARCEL 7 OF R5.
[13] FND 2"IP & TAG STAMPED "RCE 8348" PER R7, IN WELL DN 1.3'. ACCEPTED AS THE CENTERLINE TERMINUS OF WEATHERLY LANE.



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			BOLSA BAY OUTLET FLOOD CONTROL IMPOROVEMENTS				
			BOUNDARY MAP				
			PROJECT LIMITS: 500' NORTH AND SOUTH OF WARNER AVE BRIDGE EAST OF PCH				
MARK	DATE	ITEM	DATE OF SURVEY:10/1/23-3/1/24		BY: RUSSO, PAYAN		SHEET NO. 2 of 7
			MAPPING		BY: R. LOPEZ		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: RUSSO, PAYAN		
			SCALE: AS SHOWN		W.O. #EE24400S		
REVISIONS		FILE: BOLSA_OUTLET-BOUNDARY.DWG		FILE # 2324PW-CM0005			

LEGEND

- FOUND MONUMENT AS NOTED
M&R# DENOTES RECORD DATA PER REFERENCE NOTED.
M&D# DENOTES RECORD DATA PER DEED NOTED.
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--- CITY OF HUNTINGTON BEACH LIMIT LINE.

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(D1) = DEED RECORDED AUGUST 17, 1973, BK 10855 PG 354, O.R.
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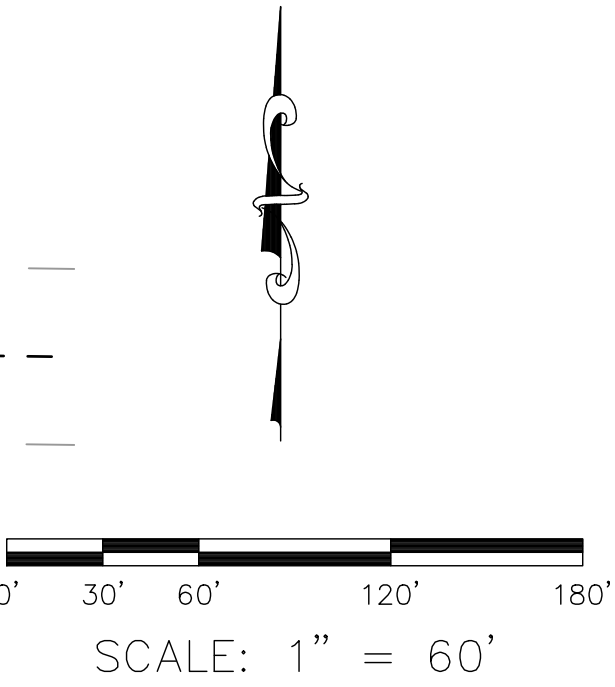
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SEE SHEET 1 FOR MONUMENT AND ESTABLISHMENT NOTES.

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N56°37'23"E	50.00'	M & R3
L2	N89°12'40"W	24.02'	(24.14'R7)

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C1	1°51'32"	3053.45'	99.06'	(1°51'38" D3)	(3053.51' D3)	(99.16' D3)
C2	1°47'16"	3053.45'	95.28'	(1°47'17" D3)	(3053.51' D3)	(95.29' D3)



SEE SHEET 2

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			BOLSA BAY OUTLET FLOOD CONTROL IMPROVEMENTS		
			BOUNDARY MAP PROJECT LIMITS: 500' NORTH AND SOUTH OF WARNER AVE BRIDGE EAST OF PCH		
			DATE OF SURVEY: 10/1/23-3/1/24	BY: RUSSO, PAYAN	SHEET NO. 3 of 7
MARK		DATE	ITEM	BY: R. LOPEZ	
				BY: J. MORENO, PLS	
				BY: RUSSO, PAYAN	
REVISIONS			SCALE: AS SHOWN	W.O. #EE24400S	FILE #2324FW-CM0005
			FILE: BOLSA_OUTLET-BOUNDARY.DWG		

SYMBOL

Bush

Control Box Undefined

Control Point

Curb Drain/Weep Hole

Drop Inlet

Electrical Outlet

Fire Hydrant

Flag Pole

Gate, Double

Light Pole, Single

Manhole Electrical

Manhole Sewer

Manhole Telephone

Meter Electrical

Meter Water

Pedestrian Activator

Post

SYMBOL

Pull Box Electrical

Pull Box Traffic

Pull Box Undefined

Rock/Boulder

Sign Post

Traffic Sensor

Traffic Signal

Traffic Signal w/ Light

Tree, Palm

Valve Gas

Valve Irrigation

Valve Undefined

Valve Water

Vault Traffic

Vault Undefined

Vault Water

Vent Pipe

SYMBOL

Water Line

Appurtenance-Undefined

LINE PATTERN KEY

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Exposed Pipe

Fence Chainlink

Fence Pipe and Cable

Fence Wood

Flowline

Guard Rail

Hand Rail

Hinge Point

Mow Strip

Property Line

Right of Way

Roof Overhang

Striping

AREA PATTERN KEY

Concrete

Dirt

Grass

Rip Rap

Wood

ABBREVIATION

CL

Centerline

CLR

Clearance

CONC

Concrete

CP

Control Point

DWY

Driveway

EL

Elevation

FD

Found

INV

Invert

CP# 200
SET LEAD BRASS PIN
& 1-1/4" TAG STAMPED
"ORANGE COUNTY SURVEYOR CP"
FLUSH ON TC
N: 2207400.33'
E: 6010652.00'
EL: 8.29'

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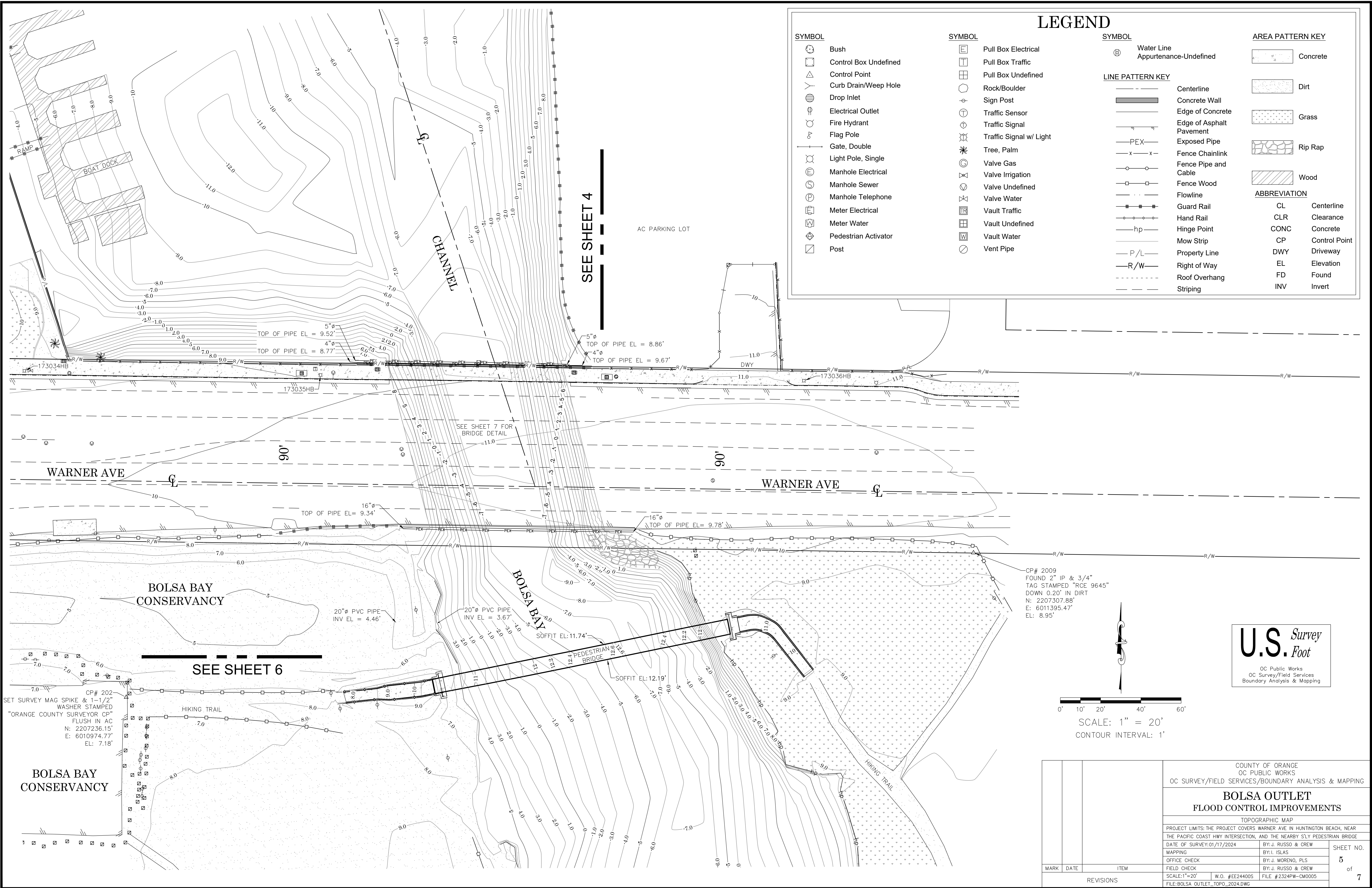
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LEGEND

SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Curb Drain/Weep Hole
- Drop Inlet
- Electrical Outlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Light Pole, Single
- Manhole Electrical
- Manhole Sewer
- Manhole Telephone
- Meter Electrical
- Meter Water
- Pedestrian Activator
- Post

SYMBOL

- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Rock/Boulder
- Sign Post
- Traffic Sensor
- Traffic Signal
- Traffic Signal w/ Light
- Tree, Palm
- Valve Gas
- Valve Irrigation
- Valve Undefined
- Valve Water
- Vault Traffic
- Vault Undefined
- Vault Water
- Vent Pipe

SYMBOL

- Water Line
- Appurtenance-Undefined

LINE PATTERN KEY

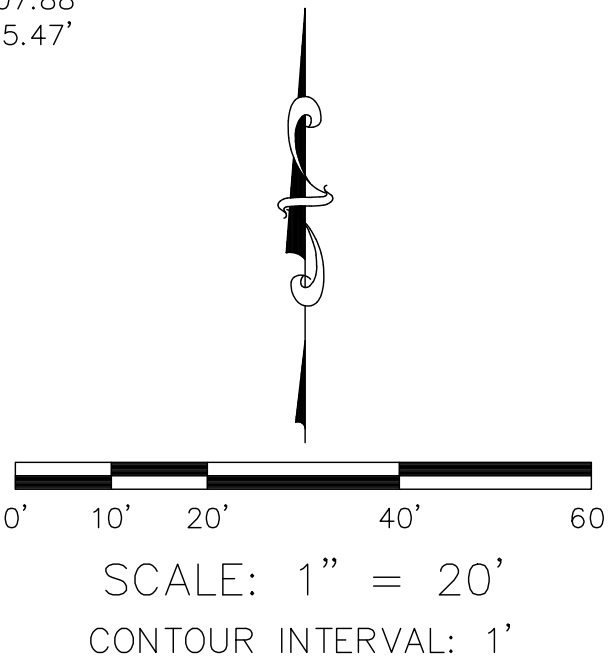
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Pipe and Cable
- Fence Wood
- Flowline
- Guard Rail
- Hand Rail
- Hinge Point
- Mow Strip
- Property Line
- Right of Way
- Roof Overhang
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Rip Rap
- Wood

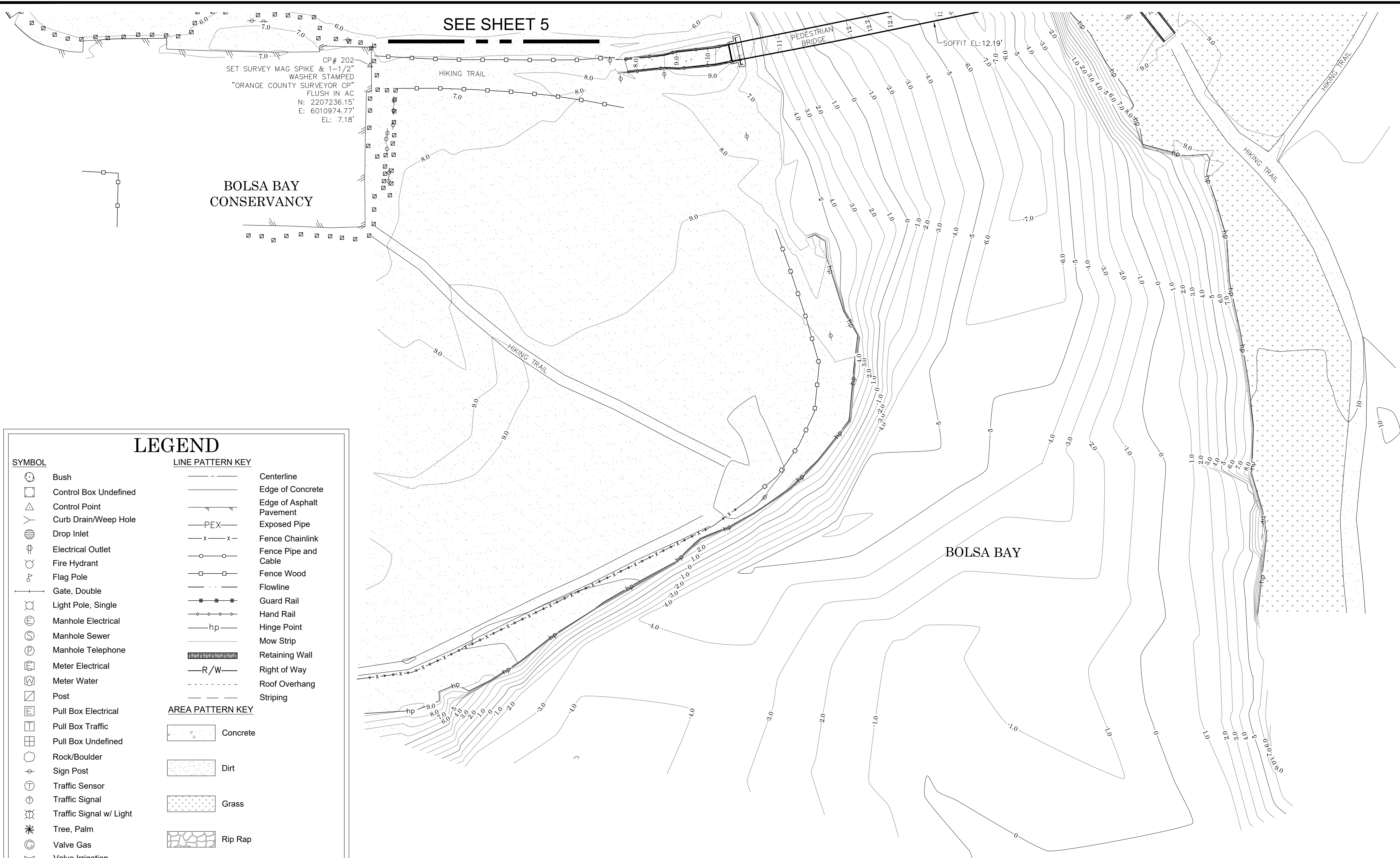
ABBREVIATION

- | | |
|------|---------------|
| CL | Centerline |
| CLR | Clearance |
| CONC | Concrete |
| CP | Control Point |
| DWY | Driveway |
| EL | Elevation |
| FD | Found |
| INV | Invert |



U.S. Survey
Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BOLSA OUTLET FLOOD CONTROL IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: THE PROJECT COVERS WARNER AVE IN HUNTINGTON BEACH, NEAR THE PACIFIC COAST HWY INTERSECTION, AND THE NEARBY S'LY PEDESTRIAN BRIDGE			
			DATE OF SURVEY: 01/17/2024		BY: J. RUSSO & CREW	
			MAPPING		BY: I. ISLAS	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: J. RUSSO & CREW	
			SCALE: 1"=20'		W.O. #EE244005	
			FILE: BOLSA_OUTLET_TOPO_2024.DWG		FILE # 2324PW-CM0005	
MARK	DATE	ITEM	REVISIONS			
			5 of 7			



LEGEND

SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Curb Drain/Weep Hole
- Drop Inlet
- Electrical Outlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Light Pole, Single
- Manhole Electrical
- Manhole Sewer
- Manhole Telephone
- Meter Electrical
- Meter Water
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- Pull Box Electrical
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- Tree, Palm
- Valve Gas
- Valve Irrigation
- Valve Undefined
- Valve Water
- Vault Traffic
- Vault Undefined
- Vault Water
- Vent Pipe
- Water Line
- Appurtenance-Undefined

LINE PATTERN KEY

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Pipe and Cable
- Fence Wood
- Flowline
- Guard Rail
- Hand Rail
- Hinge Point
- Mow Strip
- Retaining Wall
- Right of Way
- Roof Overhang
- Striping

AREA PATTERN KEY

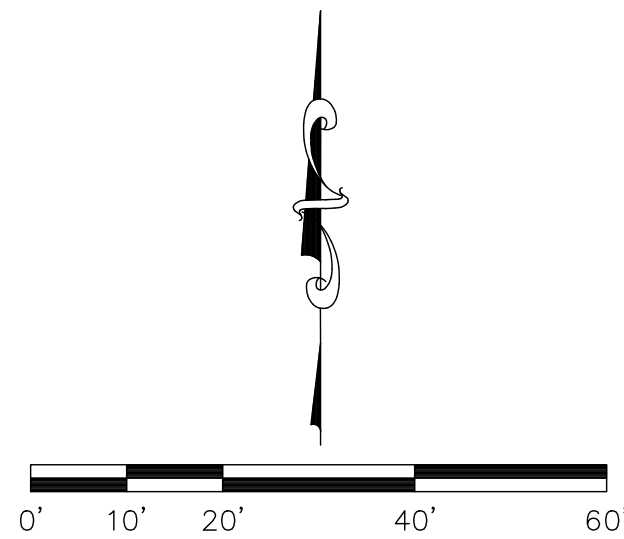
- Concrete
- Dirt
- Grass
- Rip Rap
- Wood

ABBREVIATION

- CL Centerline
- CLR Clearance
- CONC Concrete
- CP Control Point
- DWY Driveway
- EL Elevation
- FD Found
- INV Invert

U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

BOLSA OUTLET FLOOD CONTROL IMPROVEMENTS

TOPOGRAPHIC MAP

PROJECT LIMITS: THE PROJECT COVERS WARNER AVE IN HUNTINGTON BEACH, NEAR

THE PACIFIC COAST HWY INTERSECTION, AND THE NEARBY S'LY PEDESTRIAN BRIDGE

DATE OF SURVEY: 01/17/2024 BY: J. RUSSO & CREW

MAPPING BY: I. ISLAS

OFFICE CHECK BY: J. MORENO, PLS

FIELD CHECK BY: J. RUSSO & CREW

SCALE: 1"=20' W.O. #EE24400S FILE #2324FW-CM0005

FILE: BOLSA_OUTLET_TOPO_2024.DWG

SHEET NO.

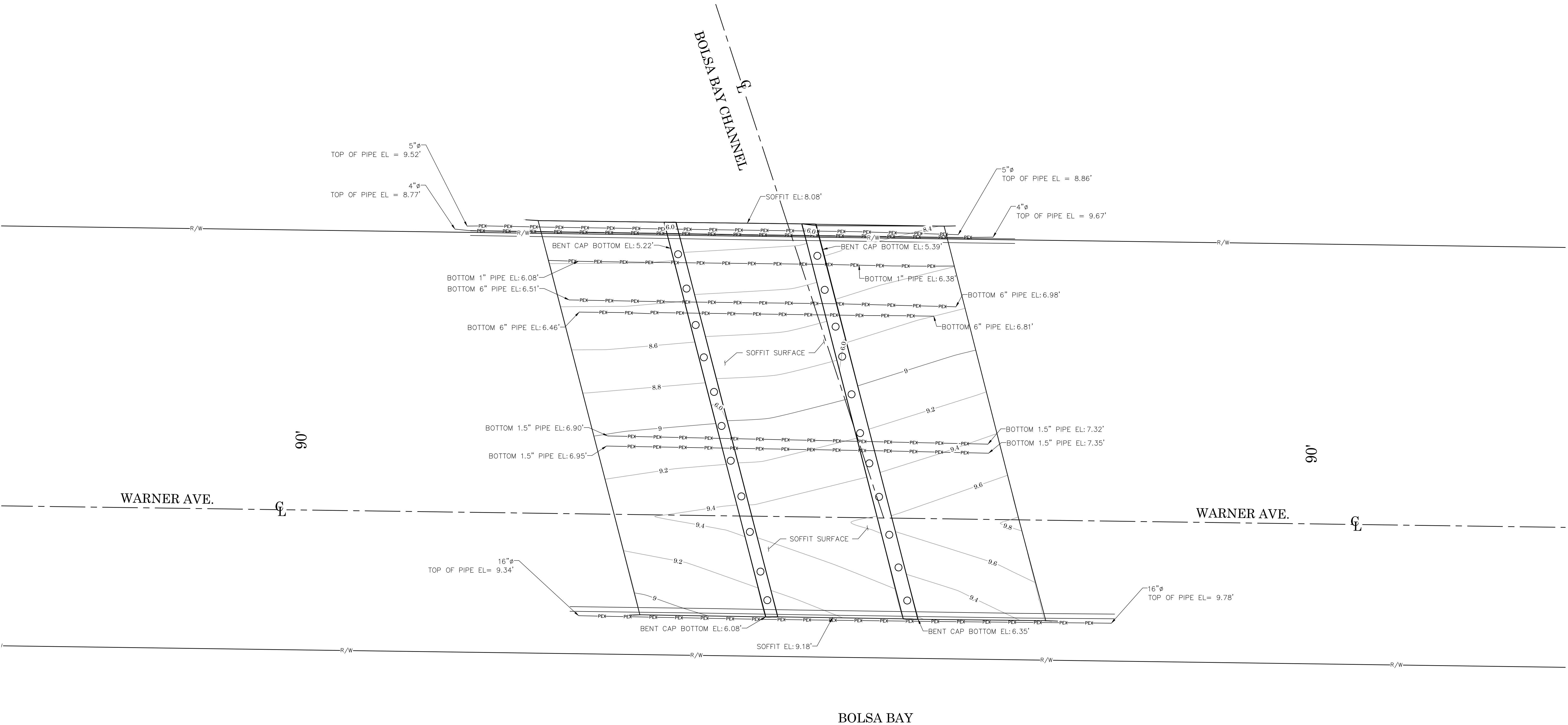
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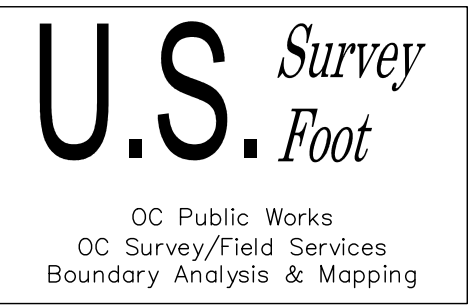
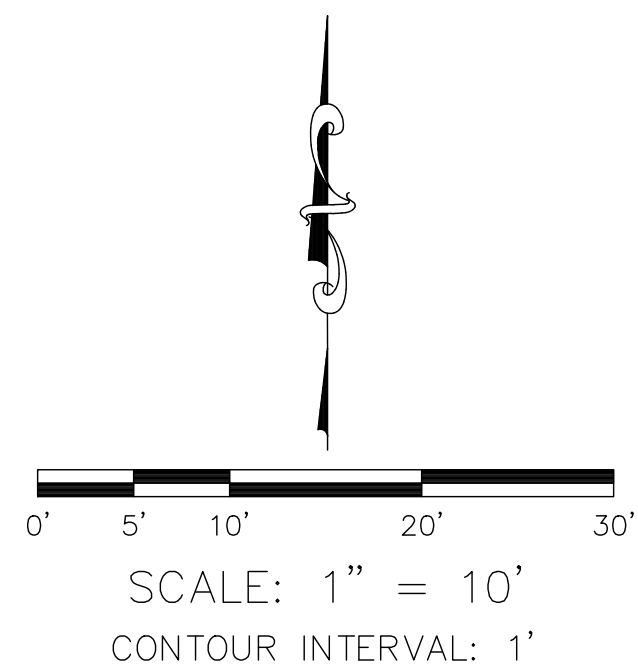
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REVISIONS

TOP VIEW BOTTOM OF BRIDGE



BOLSA BAY



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BOLSA OUTLET FLOOD CONTROL IMPROVEMENTS			
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			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: J. RUSSO & CREW	
			SCALE: 1"=20'		W.O. #EE24400S	
			FILE: BOLSA_OUTLET_TOPO_2024.DWG		FILE # 2324PW-CM0005	
REVISIONS			SHEET NO. 7 of 7			