



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



HUNTINGTON BEACH (D01) AND TALBERT (D02) CHANNEL
CHANNEL MAINTENANCE

LOCATION MAP

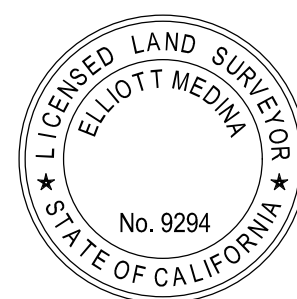


SENIOR LAND SURVEYOR'S CERTIFICATE:

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 19TH DAY OF JANUARY, 2022.

Elliott Medina

ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

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

Waide Weaver

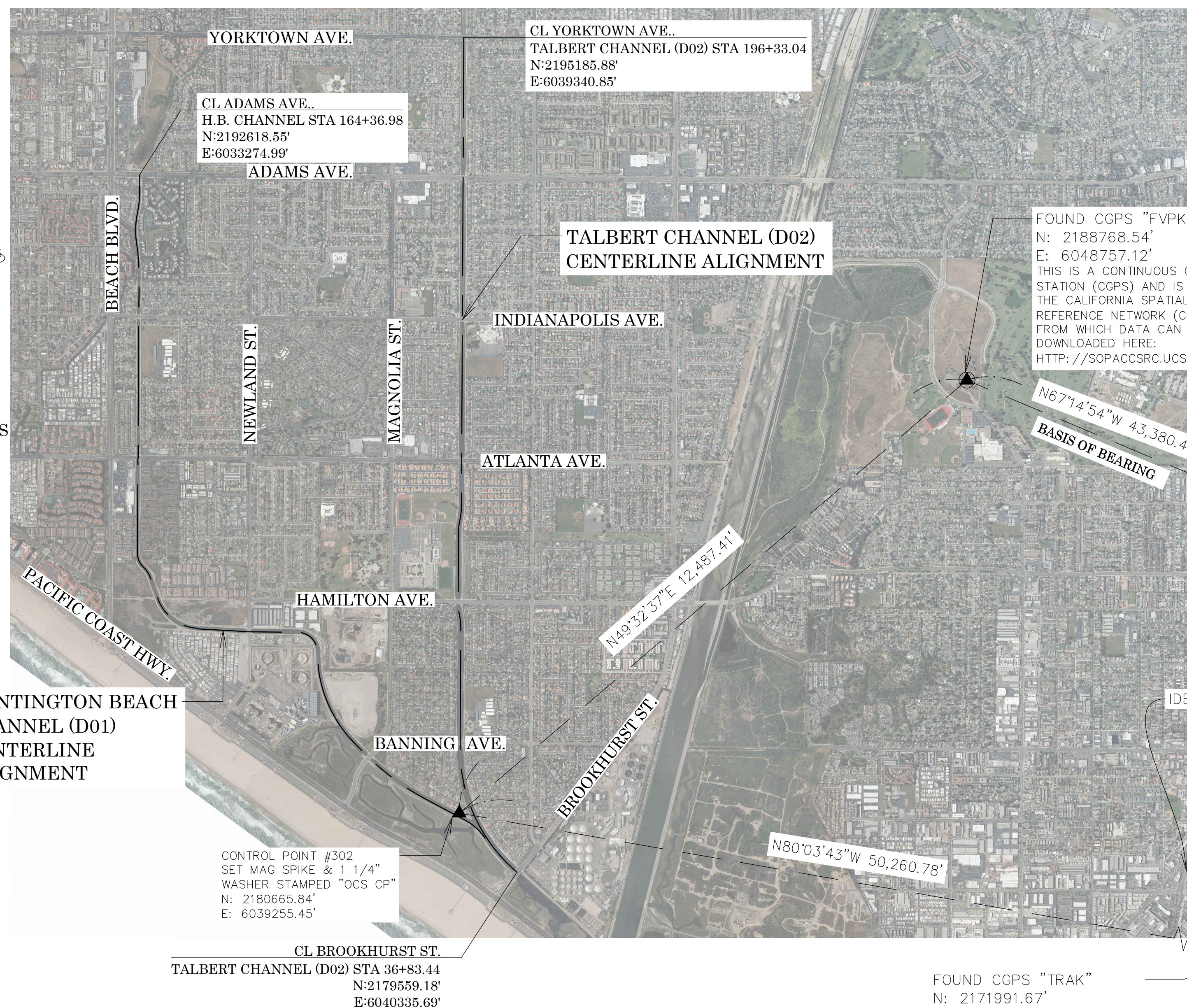
WAIDE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



U.S. Survey
Foot

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

HUNTINGTON BEACH
CHANNEL (D01)
CENTERLINE
ALIGNMENT



CONTROL POINT #302
SET MAG SPIKE & 1 1/4"
WASHER STAMPED "OCS CP"
N: 2180665.84'
E: 6039255.45'

FOUND CGPS "TRAK"
N: 2171991.67'
E: 6088762.07'
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/.

TOPOGRAPHIC MAPPING PROJECT

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2007.0) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS CGPS STATIONS (FVPK) AND (TRAK) BEING NORTH 67°14'54" 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 (2007.0) EPOCH ADJUSTMENT.
ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00002697.
THIS COMBINATION FACTOR HEREON WAS DERIVED FROM POINT #302
N: 2180665.84' E: 6039255.45' EL: 9.93'
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. HB-196-71 ELEV. = 5.460' YEAR LEVELED: 2005
NAVD 1988 (O.C.S. 1995 ADJUSTMENT)
DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "HB-196-71", SET IN THE NORTHEAST CORNER OF A 3 FT. BY 5 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE SOUTHEAST CORNER OF THE INTERSECTION OF BEACH BOULEVARD AND ATLANTA AVENUE, 250 FT. EASTERLY OF THE CENTERLINE OF BEACH BOULEVARD AND 42.5 FT. SOUTHERLY OF THE CENTERLINE OF ATLANTA AVENUE. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES.
PARCELS SHOWN WITHOUT BEARING AND DISTANCES ARE FOR GRAPHICAL PURPOSES ONLY.

SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEETS 2-4	ALIGNMENT
SHEETS 5-14	PHASE I H.B. AND TALBERT CHANNEL TOPOGRAPHIC MAP H.B. CHANNEL STA 00+00.00-26+69.76 TALBERT CHANNEL STA 36+83.44-64+21.81
SHEETS 15-39	PHASE II HUNTINGTON BEACH CHANNEL TOPOGRAPHIC MAP H.B. CHANNEL STA 26+69.76-164+36.98
SHEETS 40-63	PHASE III TALBERT CHANNEL TOPOGRAPHIC MAP TALBERT CHANNEL STA 64+21.84-196+33.04

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE TOPOGRAPHIC MAP AND RIGHT OF WAY ESTABLISHMENT FOR CHANNEL MAINTENANCE.

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
TITLE SHEET			
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW	SHEET NO.	
MAPPING	BY: A. WJ	1 of 63	
OFFICE CHECK	BY: E. MEDINA, PLS		
FIELD CHECK	BY: R. MACIAS, PLS		
SCALE: N.T.S.	W.O. #EF194015	FILE #1920PW-IN0009	
FILE: HB CHANNEL PHASE 1_TOPO_2019.DWG			
MARK	DATE	ITEM	
REVISIONS			

MONUMENT NOTES

- 1000

FOUND A GEAR SPIKE & WASHER STAMPED "CITY OF H.B." FLUSH IN AC, ACCEPTED AS THE COMMON 1/4 CORNER OF SECTION 12/6/11 AND SECTION 7/6/10.
- 1001

FOUND 2" IRON PIPE & TAG STAMPED "RCE 12589", DOWN 0.6' IN WELL, ACCEPTED AS THE COMMON 1/4 CORNER, SECTION 24/6/11 AND SECTION 19/6/10.
- 1003

FOUND PUNCHED SPIKE & WASHER STAMPED "PLS 7914" PER (R1) AND (R2), FLUSH, 0.05' SOUTH OF CENTERLINE OF YORKTOWN AVE.
- 1330

FOUND MAG NAIL & BRASS WASHER STAMPED "CITY H.B." PER (R3), FLUSH, 0.03' SOUTH OF CENTERLINE OF INDIANAPOLIS AVE.
- 1637

FOUND MAG NAIL & 2" BRASS WASHER STAMPED "CITY OF H.B." PER (R4), FLUSH ACCEPTED AS POINT ON CENTERLINE OF BUSHARD ST.
- 1772

FOUND 3 3/4" PUNCHED ALUMINUM DISK STAMPED "CALIFORNIA DEPARTMENT OF TRANSPORTATION" PER (R5), 0.9' DOWN IN WELL.
- 1775

FOUND MAG NAIL & BRASS WASHER STAMPED "LS 5411" PER (R6), FLUSH, ACCEPTED AS POINT ON CENTERLINE OF BUSHARD ST.
- 1777

FOUND GEAR SPIKE & BRASS WASHER STAMPED "PLS 6965" PER (R7), FLUSH, ACCEPTED AS POINT ON CENTERLINE OF NEWLAND ST.
- 1780

FOUND SHANK IN LIEU OF SPIKE AND WASHER PER (R8), DOWN 0.1', ACCEPTED AS POINT ON CENTERLINE OF MAGNOLIA.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2007.0) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00002697.

THIS COMBINATION FACTOR HEREON WAS DERIVED FROM POINT #302
N: 2180665.84' E: 6039255.45' EL: 9.93'

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

LEGEND

● MONUMENT AS NOTED

REFERENCES

- (R1) = TRACT 17239, M.M. 926/19-24
(R2) = CORNER RECORD, C.R. 2016-0380
(R3) = CORNER RECORD, C.R. 2018-2495
(R4) = CORNER RECORD, C.R. 2015-2534
(R5) = RECORD OF SURVEY 2005-1075, R.S.B. 232/1-10
(R6) = CORNER RECORD, C.R. 2005-0839
(R7) = CORNER RECORD, C.R. 2008-2393
(R8) = CORNER RECORD, C.R. 2010-2440
(R9) = CORNER RECORD, C.R. 2010-2436
(R10) = CORNER RECORD, C.R. 2010-2436
(R11) = CORNER RECORD, C.R. 2001-0697
(R12) = ALIGNMENT NOTES, A/6-11/1-25
(R13) = PARCEL 84-590, P.M.B. 202/48-50
(R14) = RECORD OF SURVEY 95-1033, R.S.B. 153/25-27
(R15) = CORNER RECORD, C.R. 2009-1789

MONUMENT NOTES

- 1784

FOUND 2" IRON PIPE W/ WOOD PLUG PER (R9), DOWN 2.0', 0.04' EAST OF SECTION LINE.
- 4320

FOUND BRASS TACK & 1 1/4" BRASS TAG STAMPED "ORANGE COUNTY SURVEYOR" PER (R10), FLUSH IN CONCRETE MEDIAN, ACCEPTED AS THE CENTERLINE INTERSECTION OF ADAMS AVE. AND TALBERT CHANNEL.
- 5003

FOUND MAG NAIL & BRASS WASHER STAMPED "LS 5411" PER (R5), FLUSH, ACCEPTED AS THE CENTERLINE INTERSECTION OF BUSHARD ST. AND BROOKHURST ST.
- 5005

FOUND SURVEY MARK SPIKE & TAG STAMPED "ORANGE COUNTY SURVEYOR GPS 5005R1" PER (R5), FLUSH IN AC.
- 5010

FOUND 2" IRON PIPE W/ BRASS TACK & TAG STAMPED "ORANGE COUNTY SURVEYOR 03-01-5010R1" PER (R11), DOWN 1.3' IN WELL MONUMENT, ACCEPTED AS CENTER OF SECTION 13/6/11.
- 5011

FOUND 2" IRON PIPE W/ PUNCHED NAIL & ILLEGIBLE TAG, DOWN 1.2' IN WELL MONUMENT, ACCEPTED AS THE CENTERLINE INTERSECTION OF MAGNOLIA ST. AND HAMILTON AVE.
- 5012

FOUND SURVEY MARK SPIKE & WASHER STAMPED "ORANGE COUNTY SURVEYOR GPS 5012R1", FLUSH IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF BUSHARD ST. AND HAMILTON AVE.
- 5015

FOUND GEAR SPIKE & WASHER STAMPED "LS 5662", FLUSH IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF BUSHARD ST. AND ATLANTA AVE.
- 5016

FOUND MAG SPIKE & TAG STAMPED "CITY OF H.B.", FLUSH IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF MAGNOLIA ST. AND ATLANTA AVE.
- 5017

FOUND 2" IRON PIPE W/ BRASS TACK & TAG STAMPED "OCS DM" PER (R12), DOWN 0.4' IN WELL MONUMENT, ACCEPTED AS CENTERLINE INTERSECTION OF NEWLAND ST. AND ATLANTA AVE.
- 5018

FOUND BRASS TACK & TAG STAMPED "RCE 12589" PER (R13), DOWN 0.9' IN WELL MONUMENT, ACCEPTED AS NORTHWEST CORNER OF SECTION 13/6/11.
- 5023

FOUND 2" IRON PIPE W/ BRASS TACK & TAG STAMPED "CITY OF H.B. RCE 10655" PER (R14), DOWN 0.8' IN WELL MONUMENT, ACCEPTED AS THE WEST 1/4 CORNER OF SECTION 12/6/11.
- 5024

FOUND 2 1/2" BRASS DISK STAMPED "H.B. CITY RCE 12589" PER (R14), DOWN 1.1' IN WELL MONUMENT, ACCEPTED AS THE CENTER OF SECTION 12/6/11.
- 5026

FOUND GEAR SPIKE & WASHER STAMPED "LS 5662", FLUSH.
- 5029

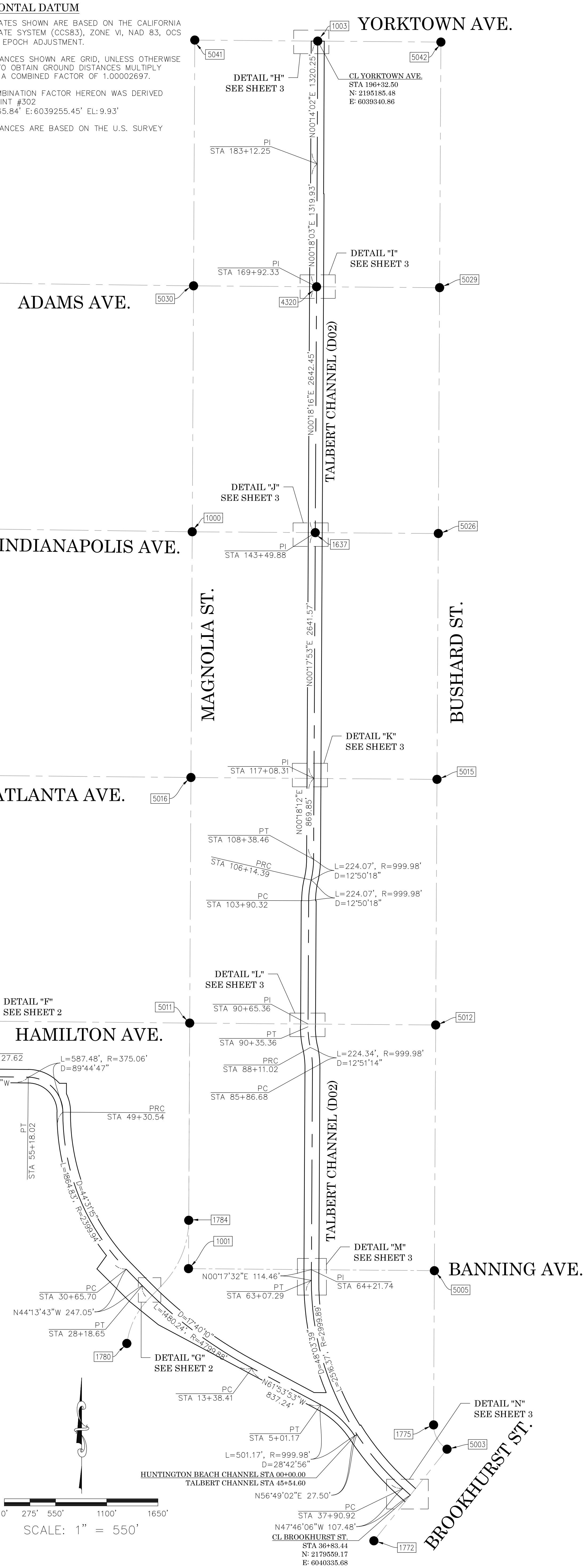
FOUND GEAR SPIKE & WASHER STAMPED "LS 6970" PER (R15), FLUSH IN AC.
- 5030

FOUND 2" IRON PIPE & BRASS TAG STAMPED "CITY OF H.B. RCE 10655", DOWN 1.25' IN WELL MONUMENT, ACCEPTED AS CENTERLINE INTERSECTION OF MAGNOLIA ST. AND ADAMS AVE.
- 5031

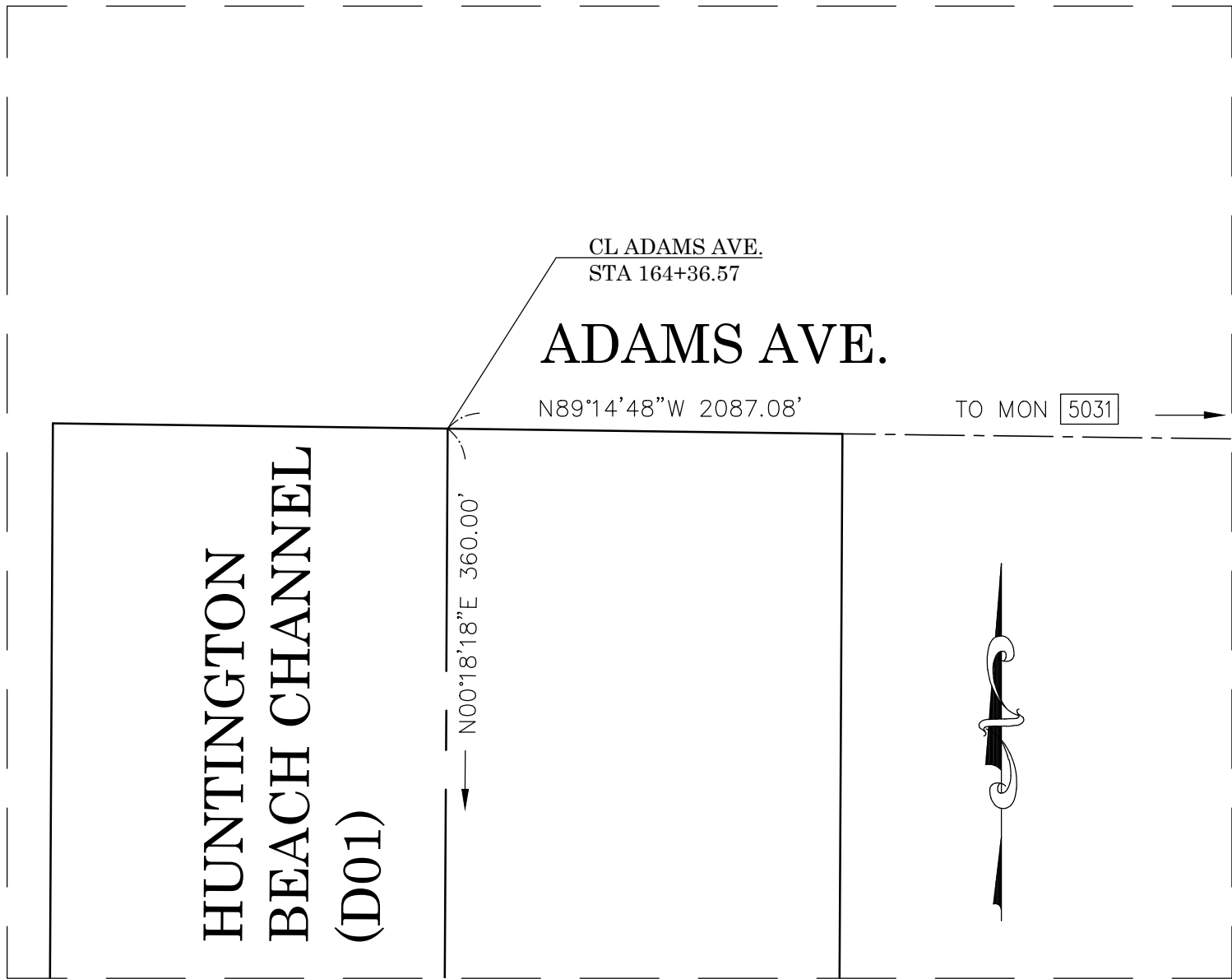
FOUND 1 1/2" IRON PIPE W/ BRASS TACK & TAG STAMPED "CITY OF H.B. RCE 10655", DOWN 1.0' IN WELL MONUMENT.
- 5041

FOUND 2" IRON PIPE & BRASS TAG STAMPED "CITY OF H.B. RCE 10655", DOWN 1.2' IN WELL MONUMENT, ACCEPTED AS THE COMMON 1/4 CORNER OF SECTION 6/6/10 AND SECTION 1/6/11.
- 5042

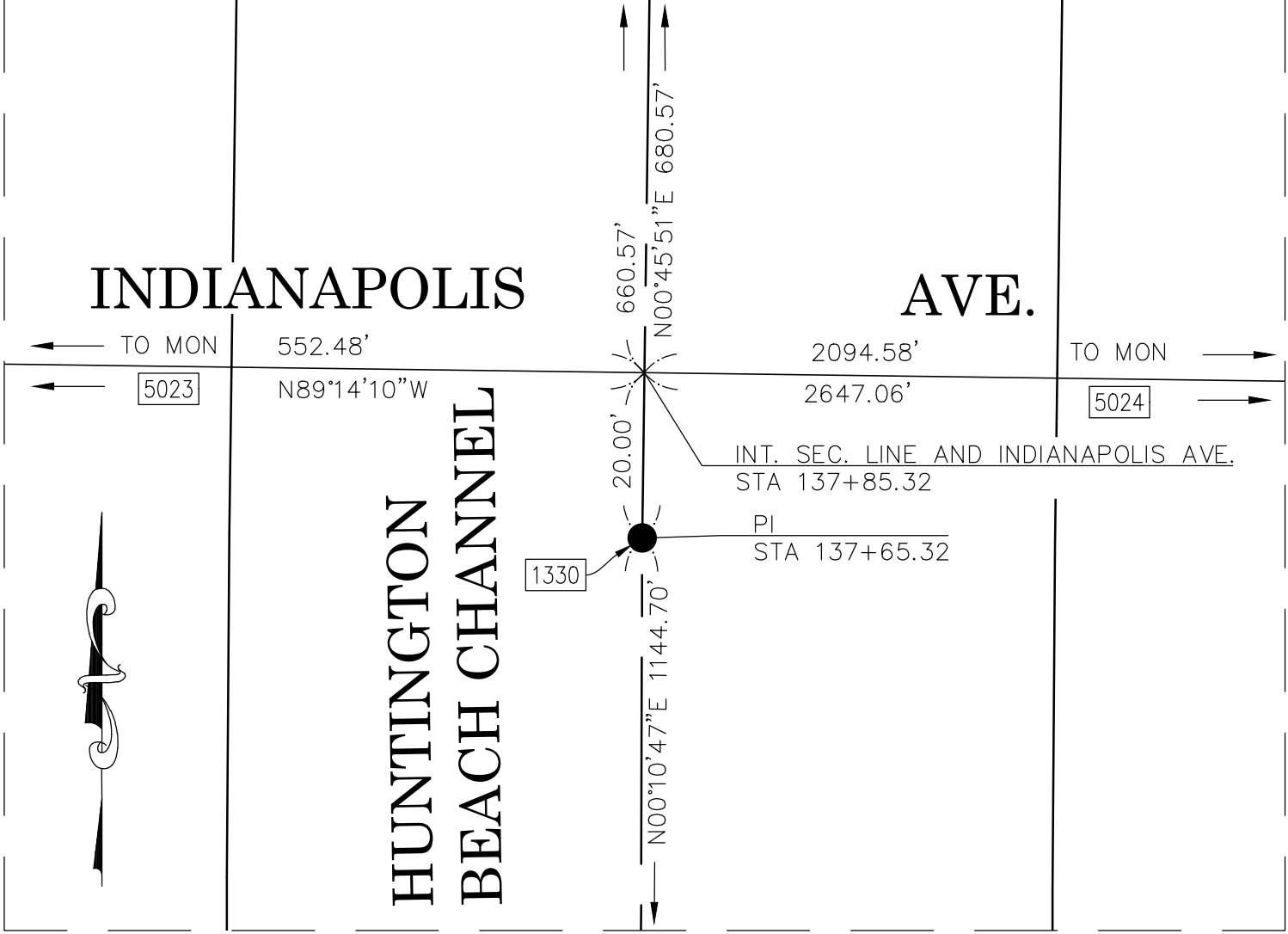
FOUND GEAR SPIKE & WASHER STAMPED "LS 5662" PER (R16), FLUSH, ACCEPTED AS THE CENTER OF SECTION 6/6/10.



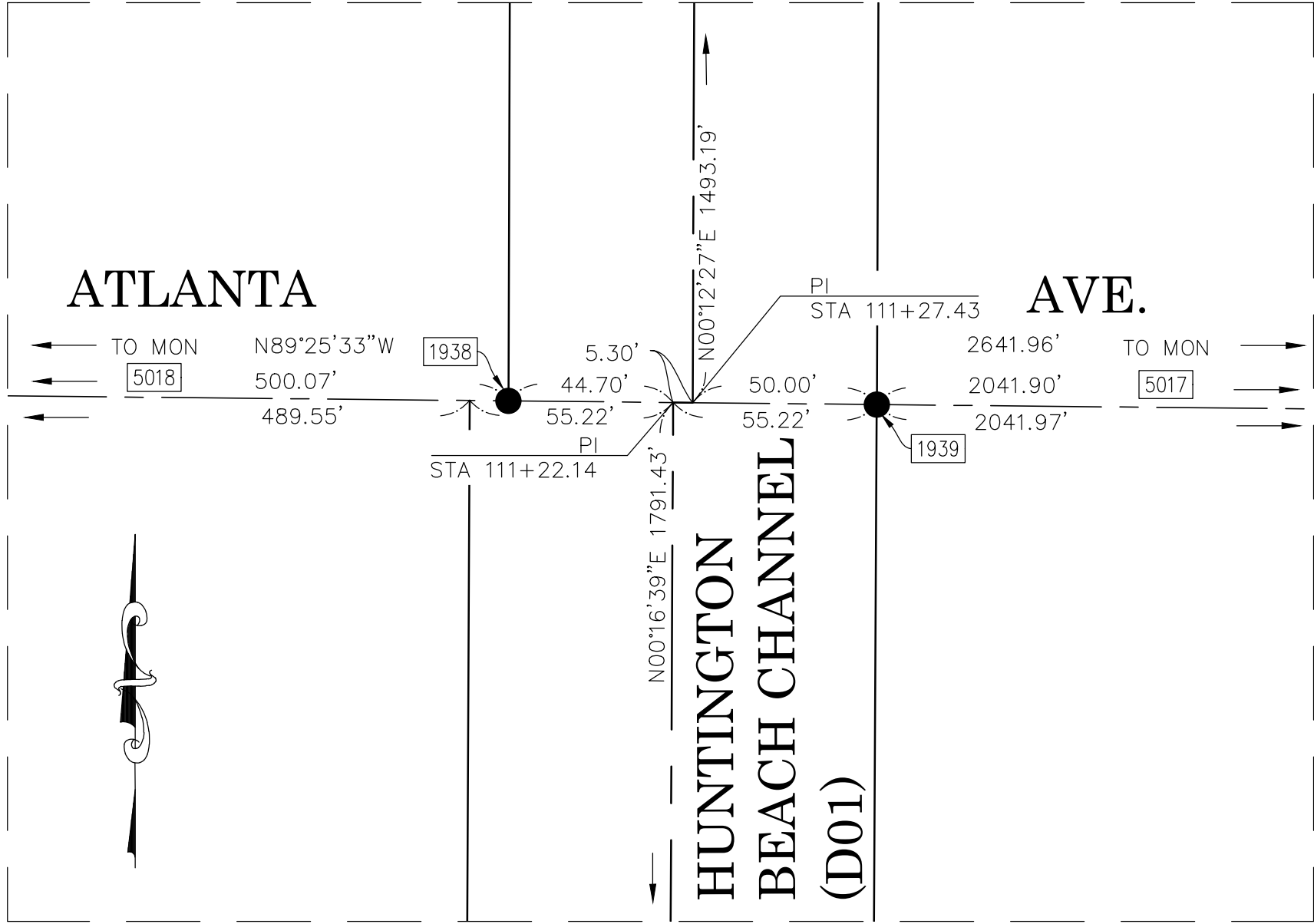
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		H.B. & TALBERT CHANNEL ALIGNMENT	
		ALIGNMENT	
		PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
		DATE OF SURVEY: 04/08/2020	BY: J.F.A. & ASSOCIATES
		MAPPING	BY: A. VU
		OFFICE CHECK	BY: E. MEDINA, PLS
		FIELD CHECK	BY: J.F.A. & ASSOCIATES
		SCALE: 1" = 20'	W.O. #EF19401S
		FILE #1920PW-IN0009	
		FILE: HUNTINGTON BEACH CHANNEL_ALIGN_2020.DWG	
MARK	DATE	ITEM	SHEET NO.
REVISIONS			2 of 63



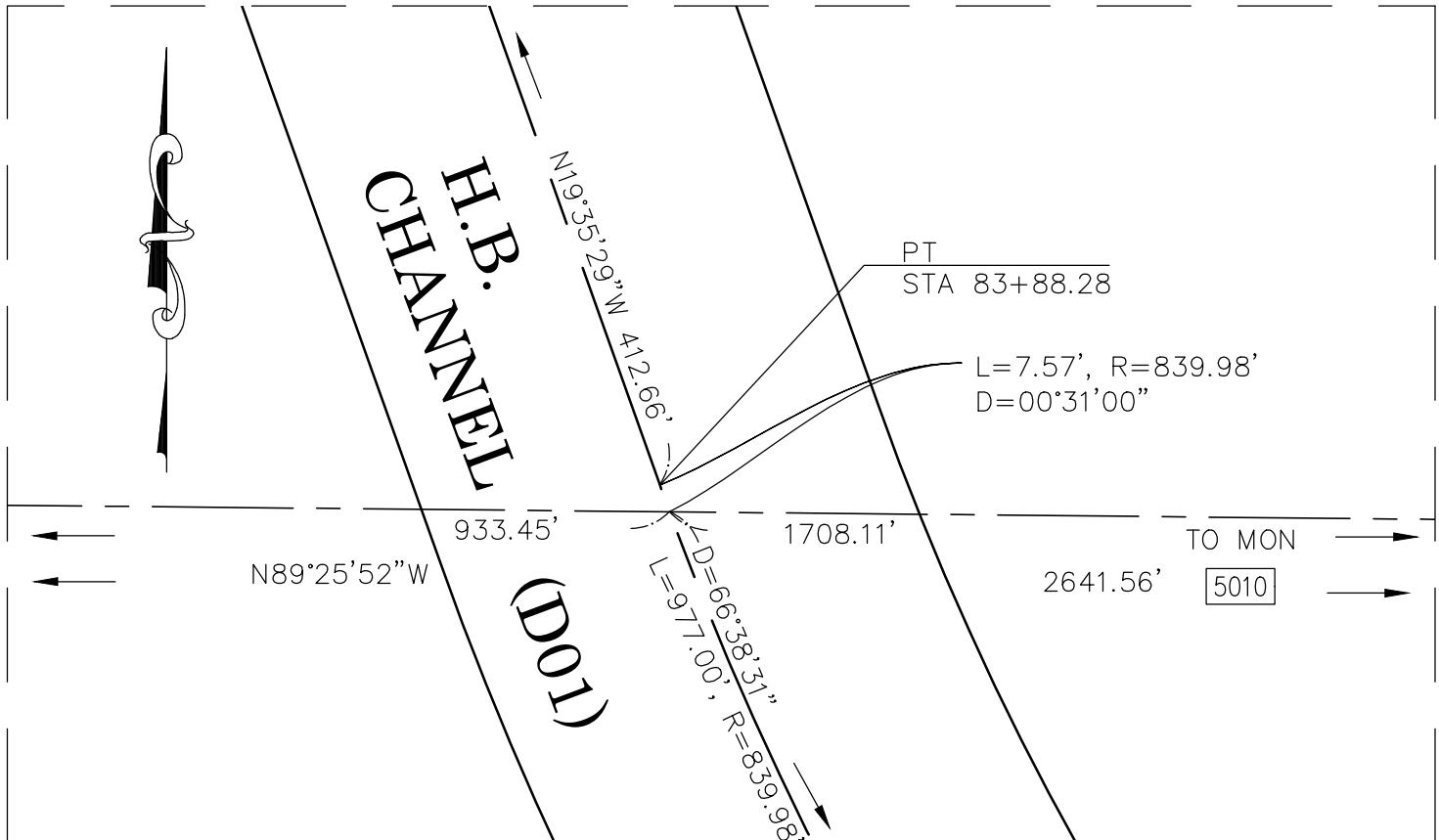
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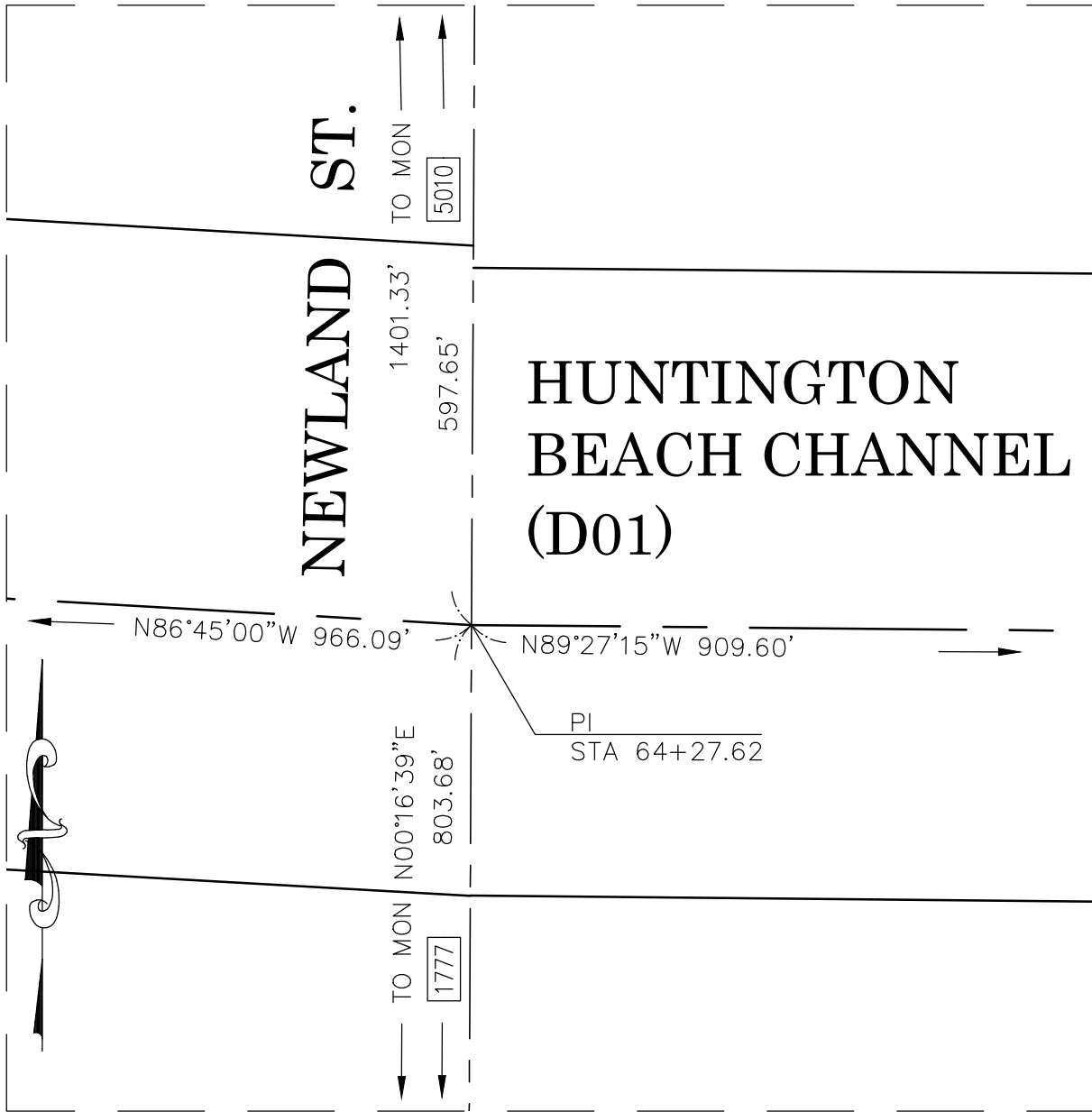
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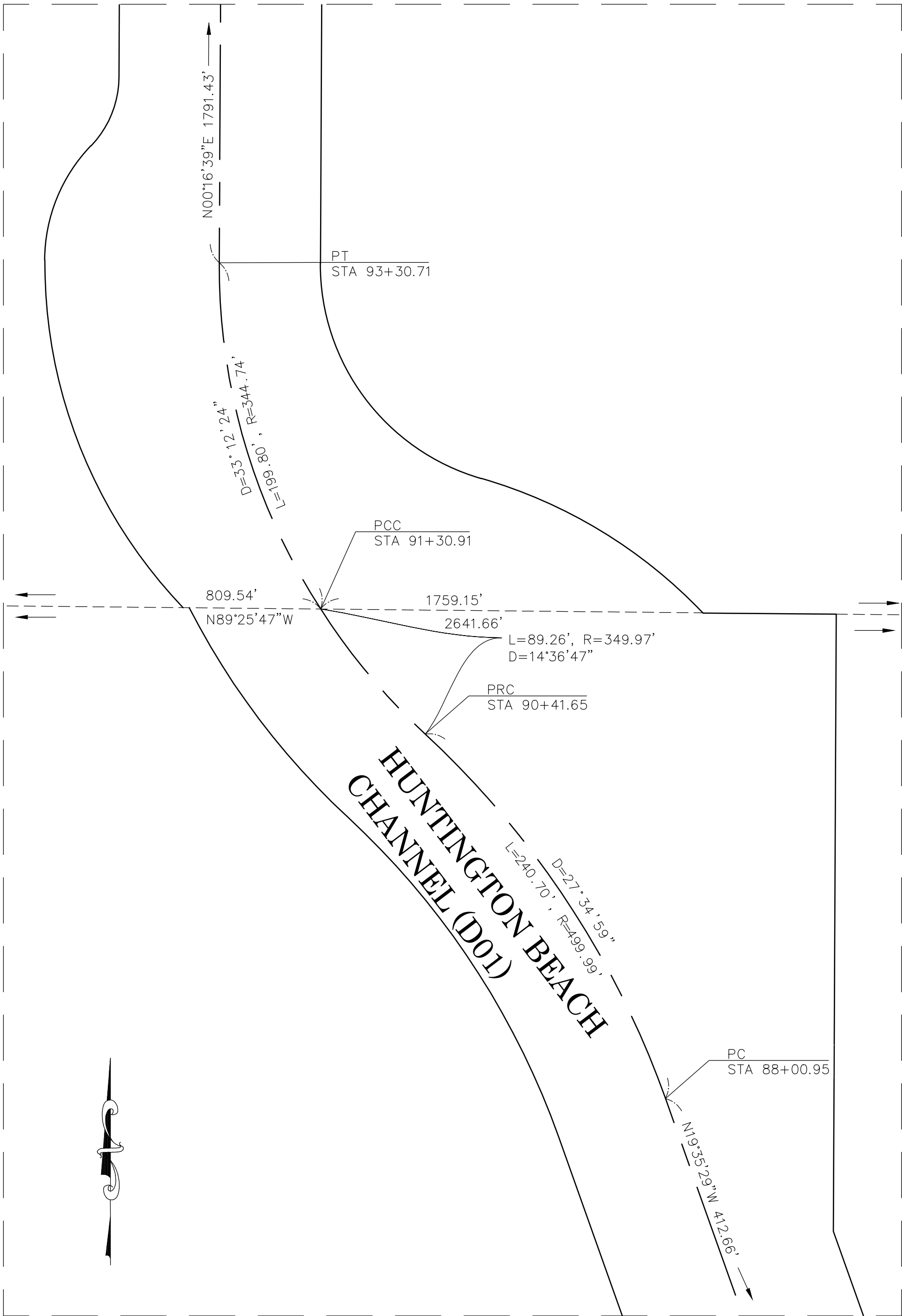
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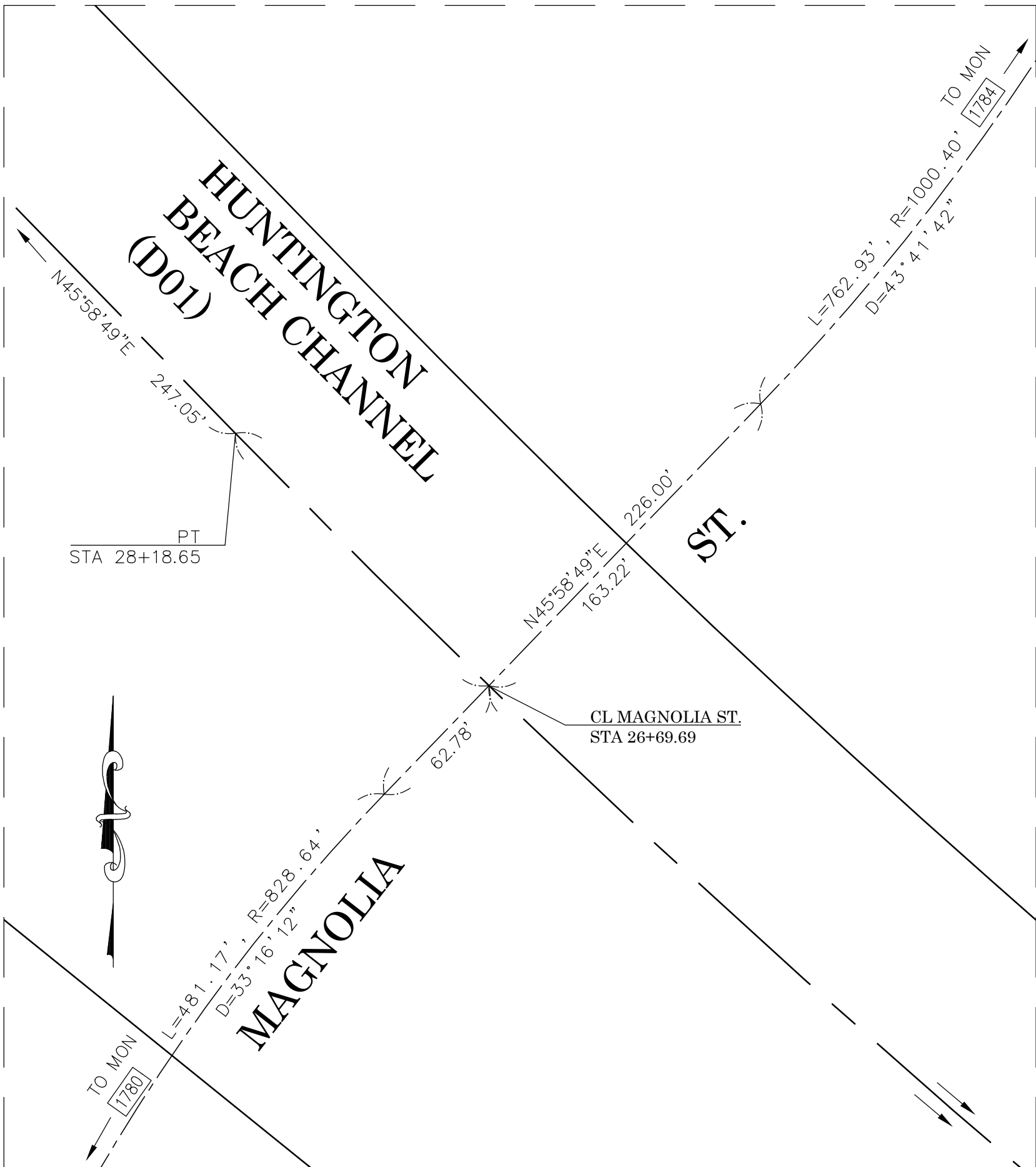
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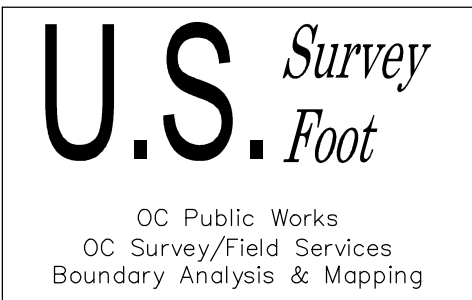
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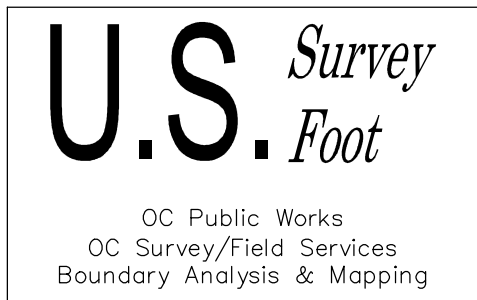
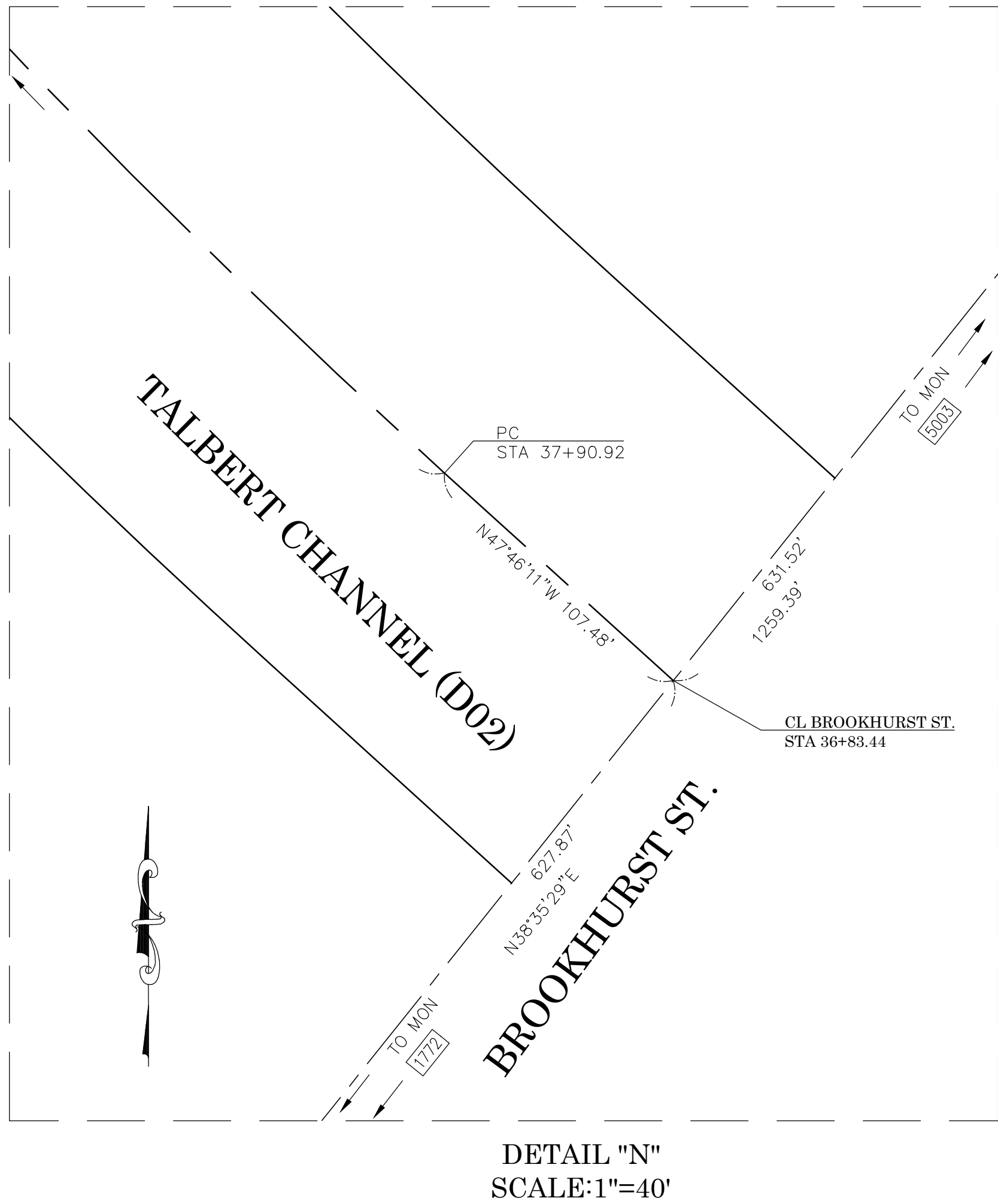
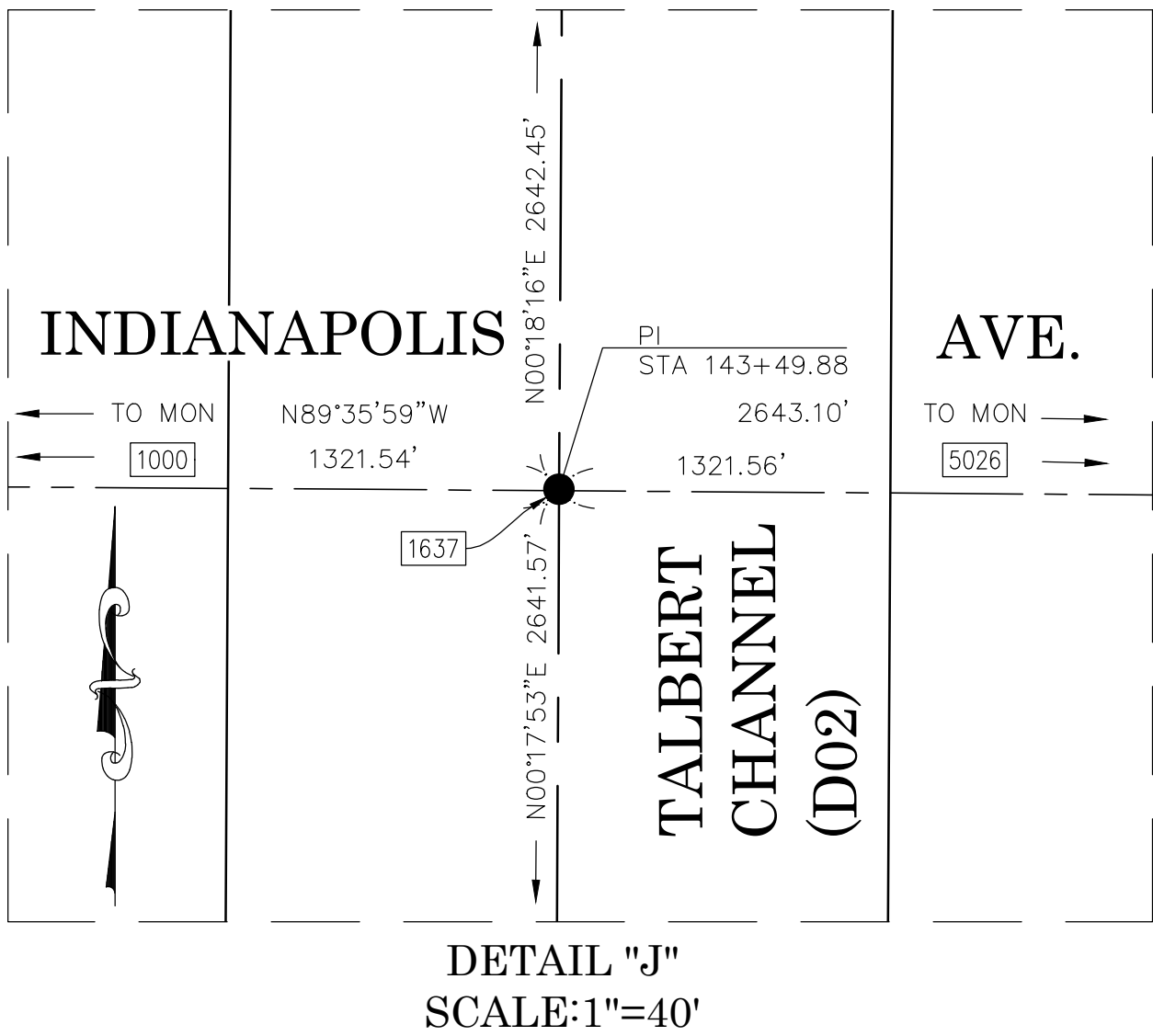
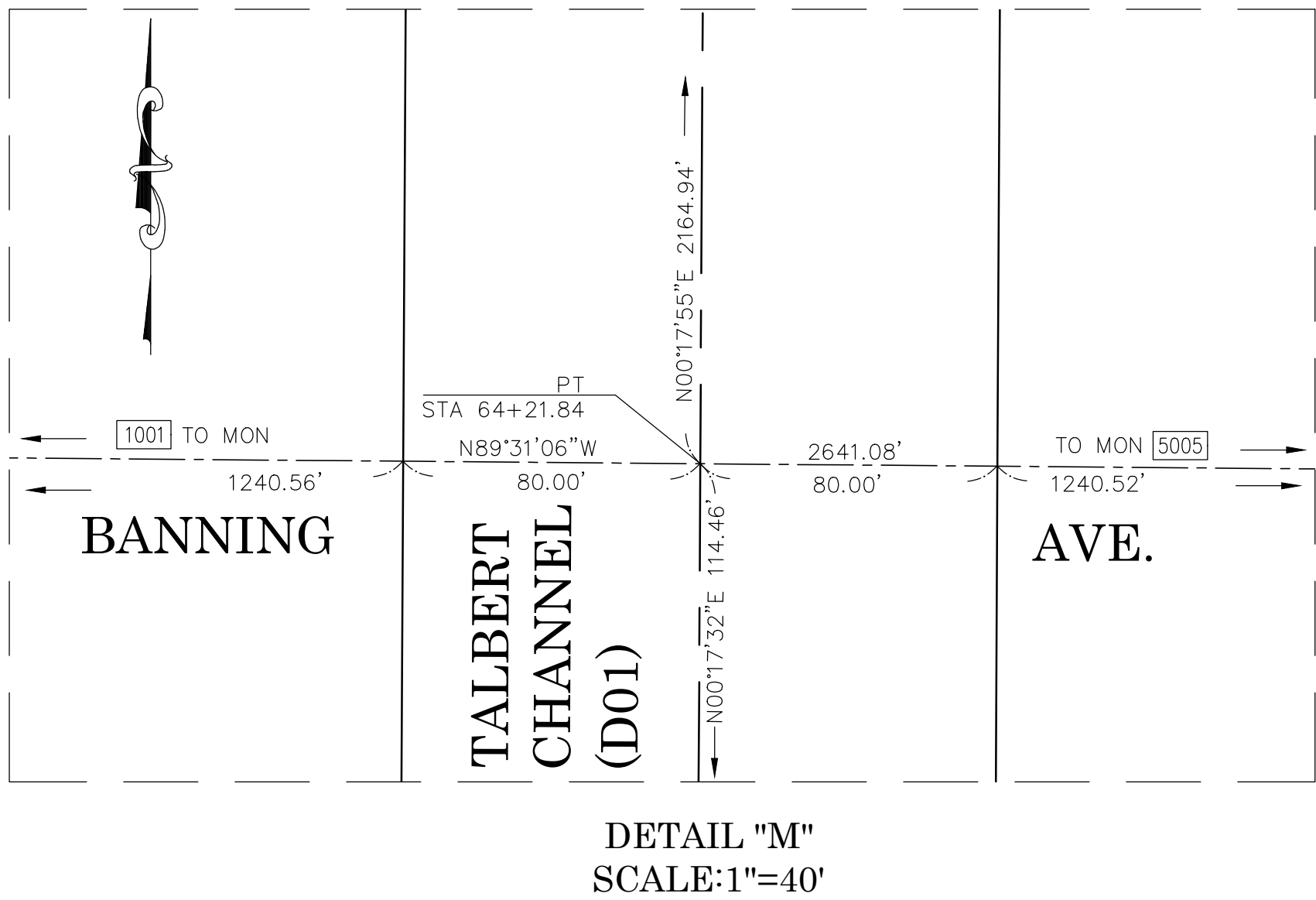
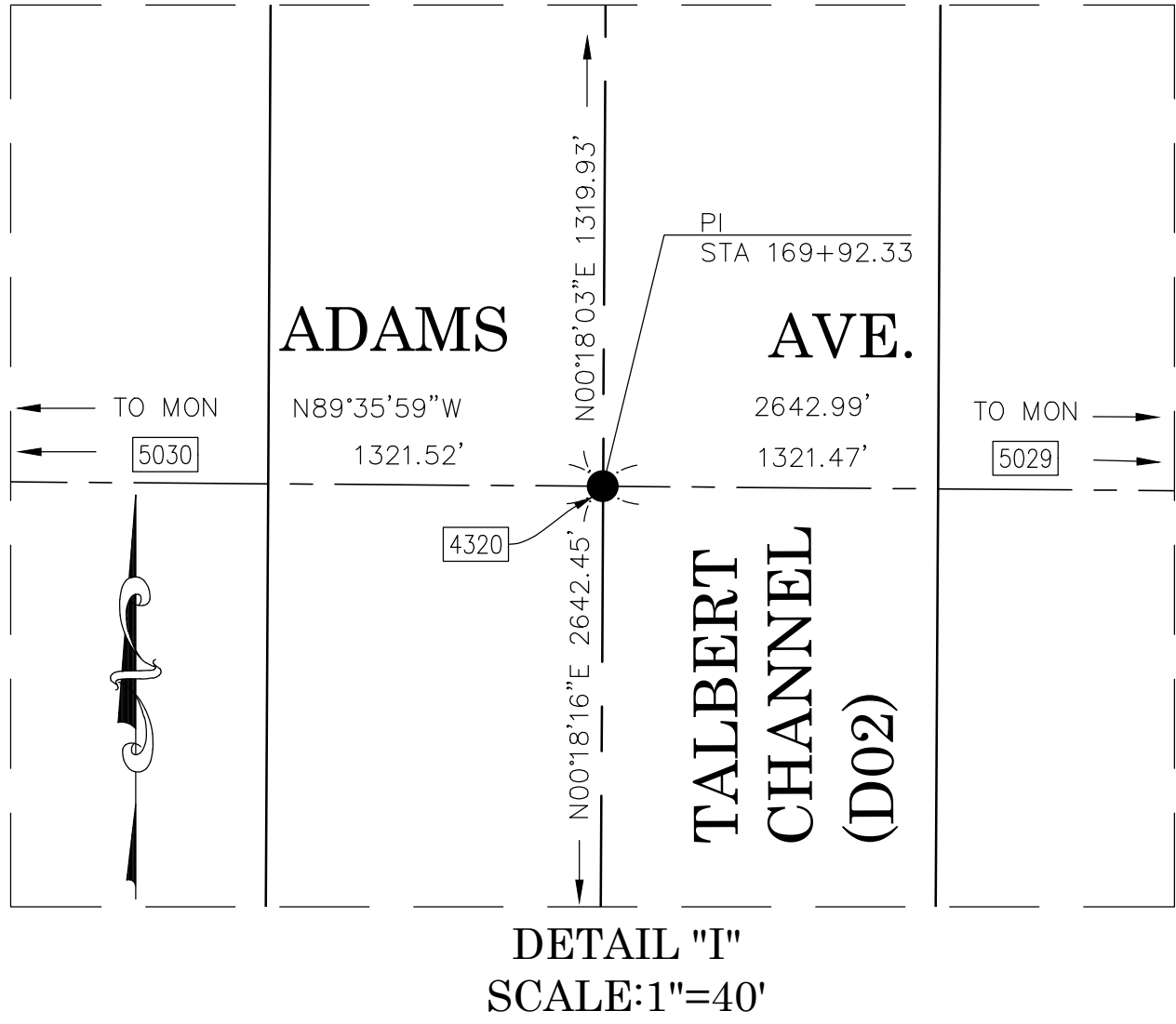
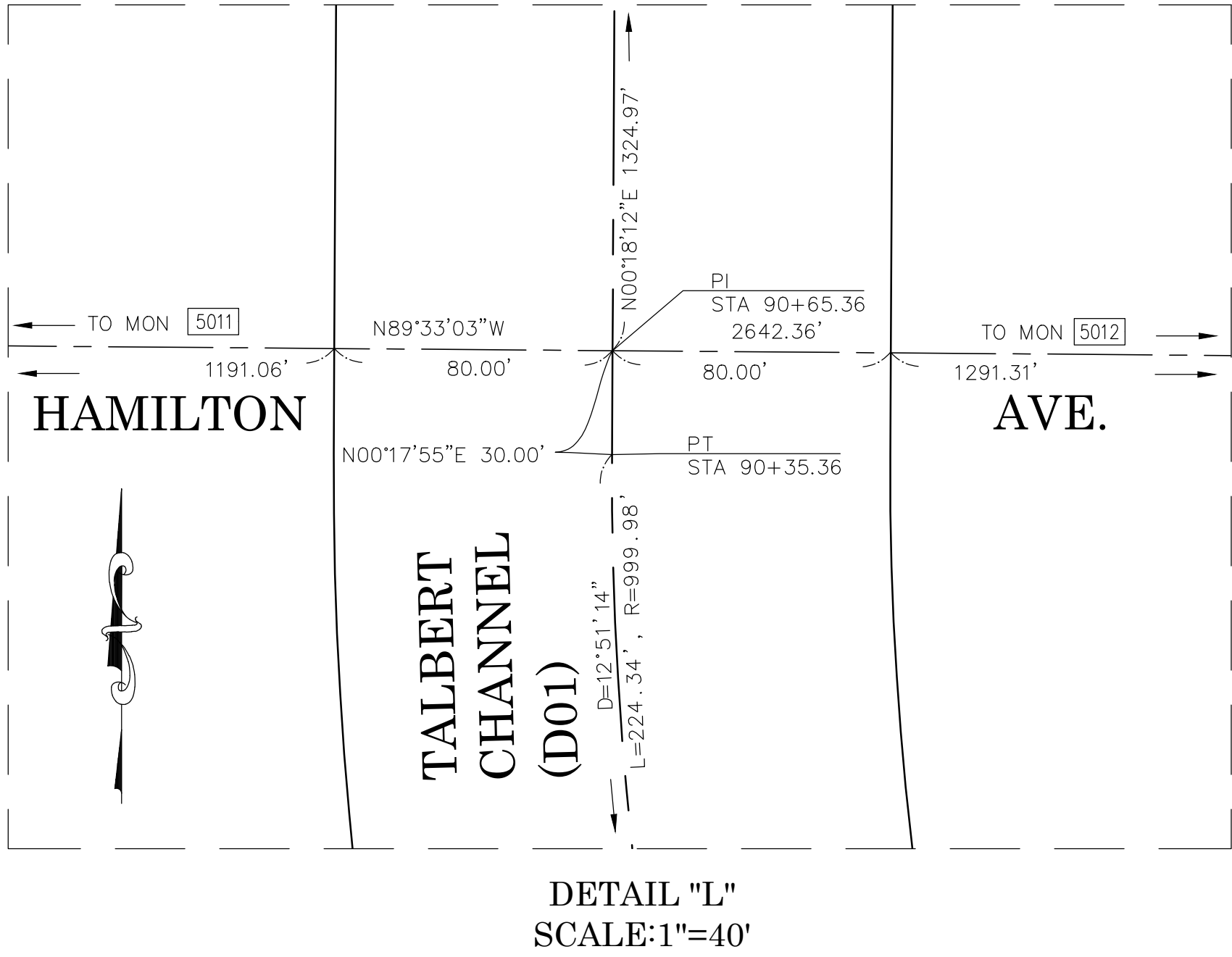
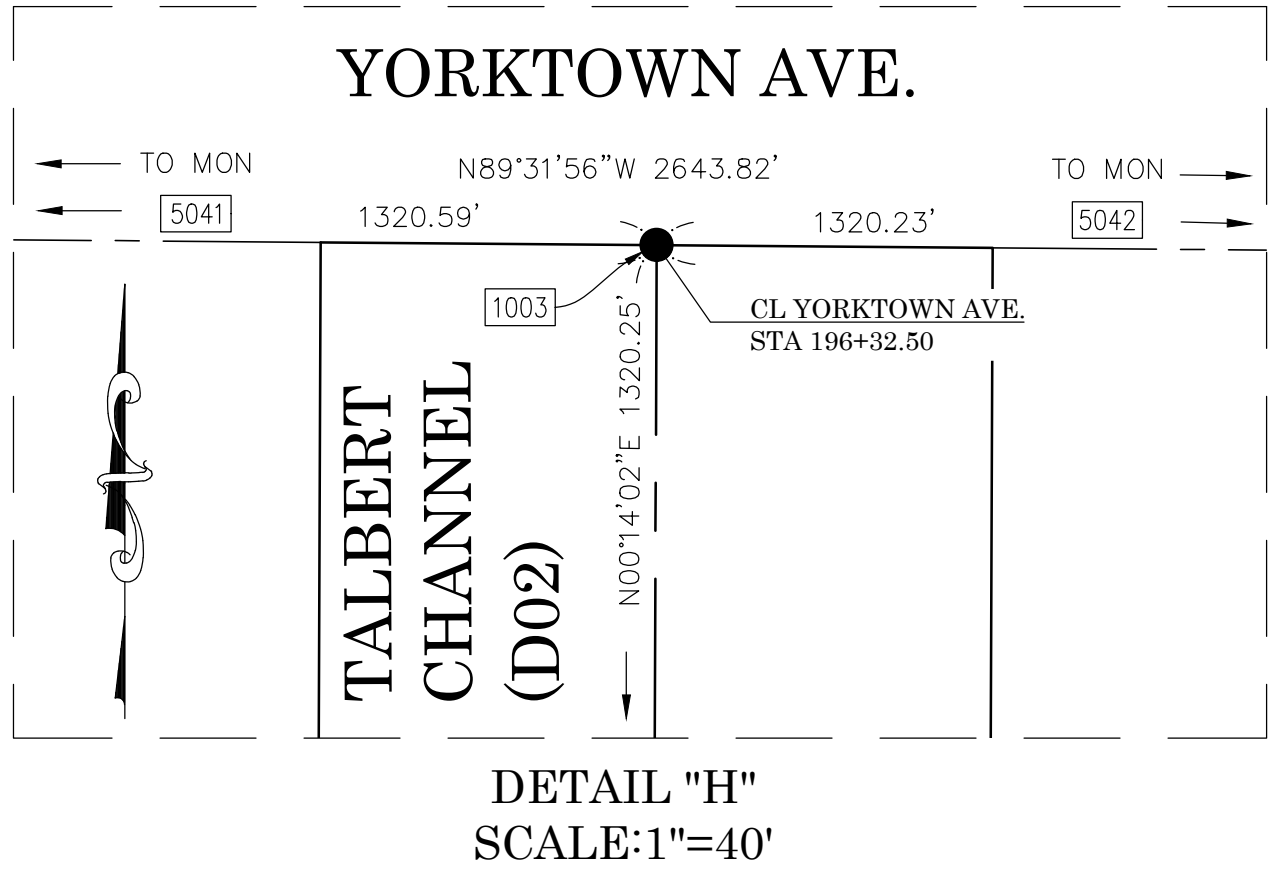
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SCALE:1"=50'



DETAIL "G"
SCALE:1"=50'

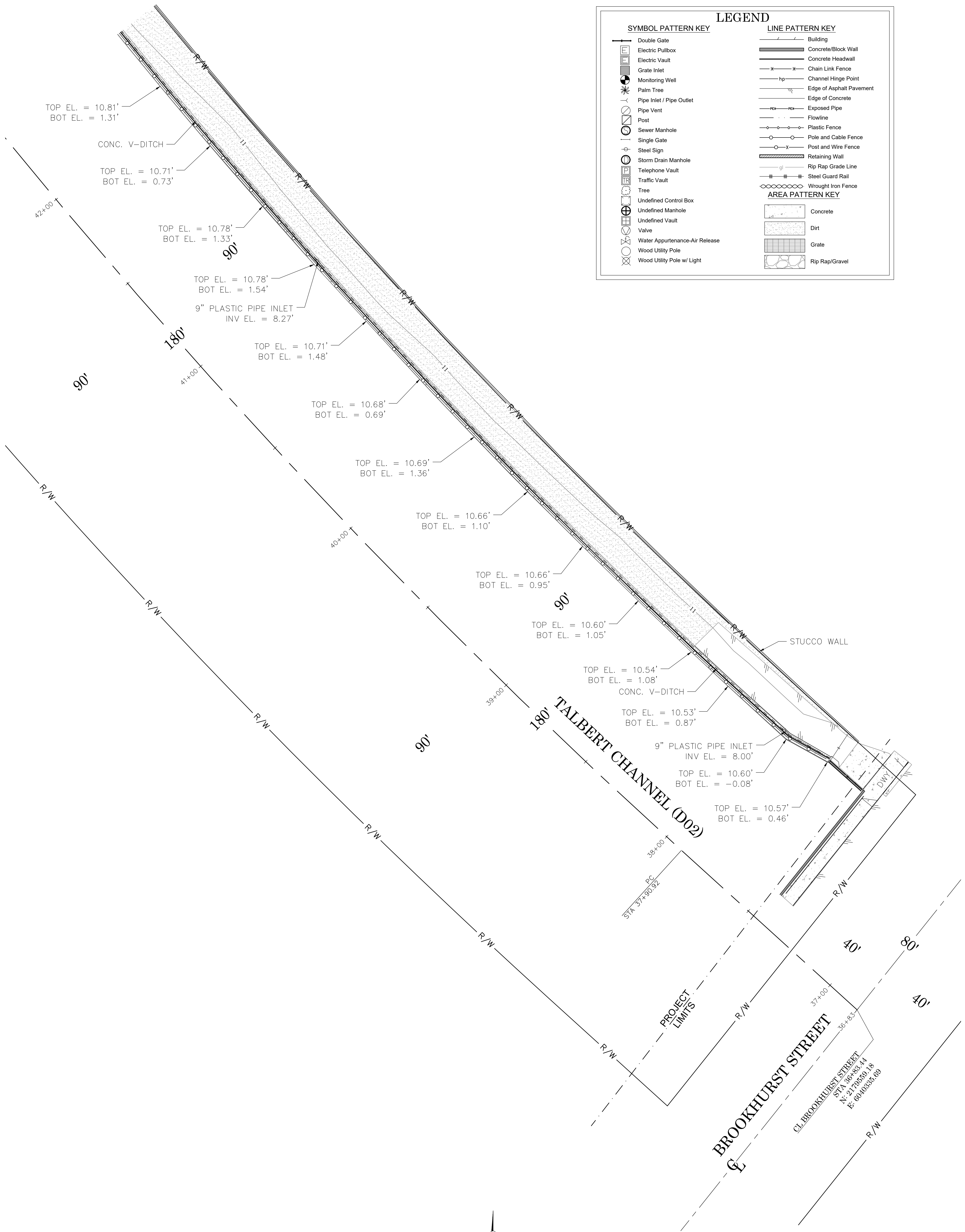


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL ALIGNMENT DETAILS			
			ALIGNMENT			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 04/08/2020	BY: J.F.A. & ASSOCIATES	SHEET NO. 3 of 63	
			MAPPING	BY: A. VU		
			OFFICE CHECK	BY: E. MEDINA, PLS		
			FIELD CHECK	BY: J.F.A. & ASSOCIATES		
MARK	DATE	ITEM	SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009	
		REVISIONS	FILE: HUNTINGTON BEACH CHANNEL_ALGN_2020.DWG			



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
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			ALIGNMENT			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 04/08/2020		BY: J.F.A. & ASSOCIATES	SHEET NO. 4 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: J.F.A. & ASSOCIATES	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009
		REVISIONS				FILE: HUNTINGTON BEACH CHANNEL_ALIGN_2020.DWG

SEE SHEET 6



SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

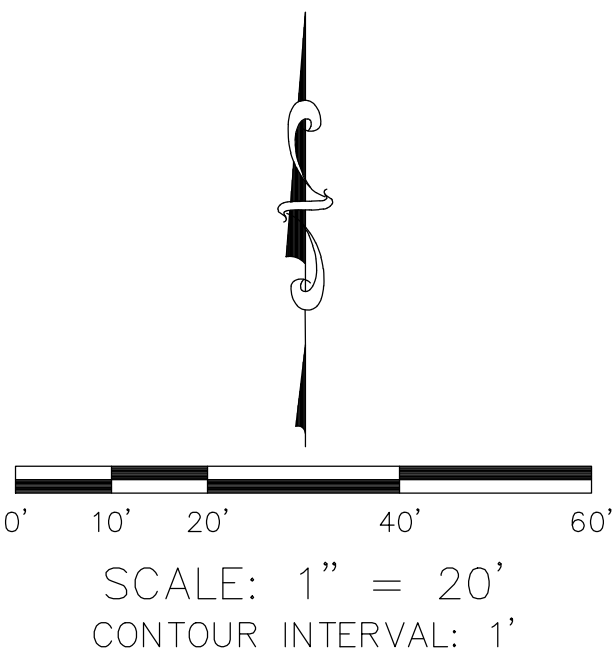
- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

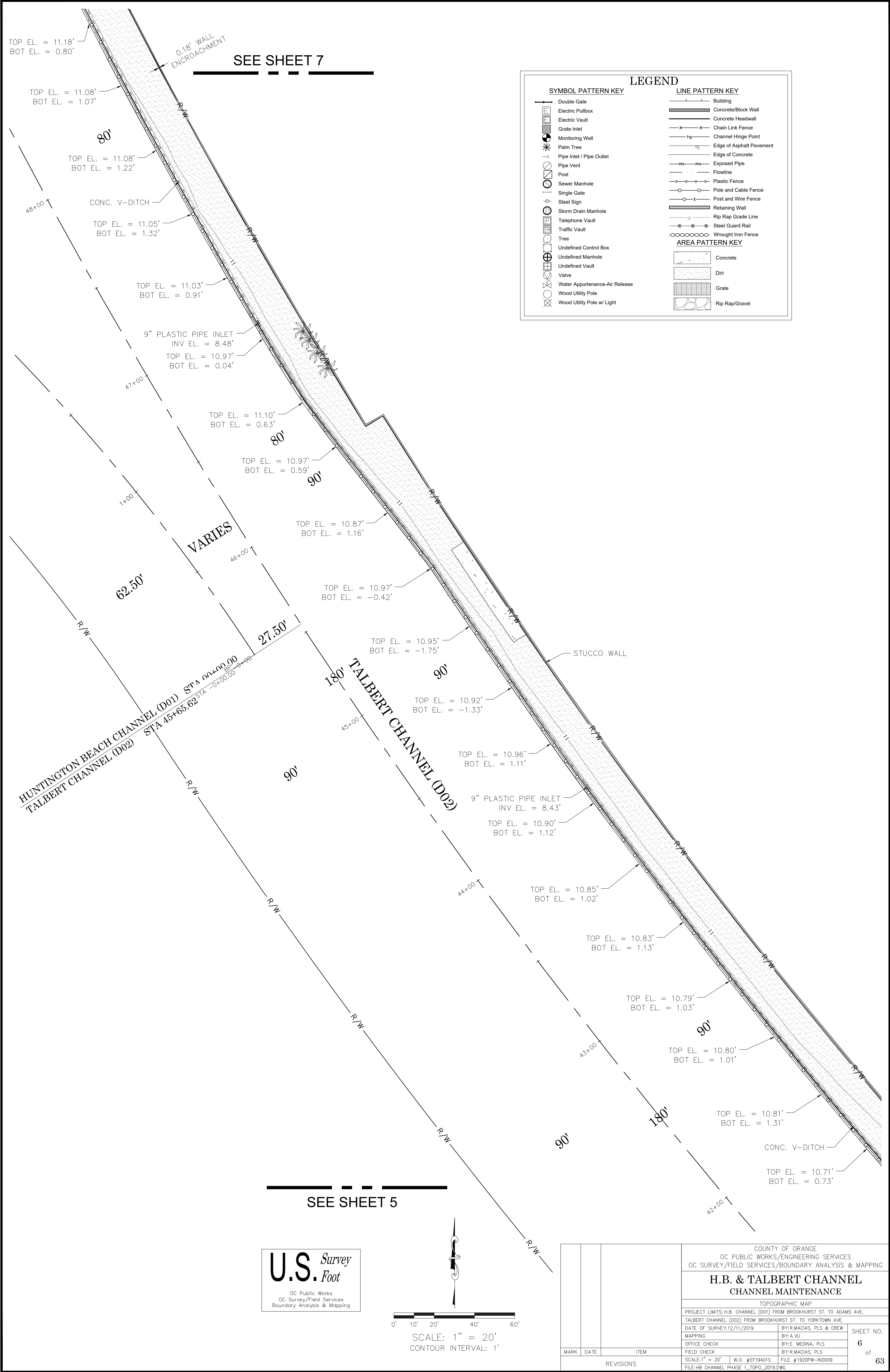
- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

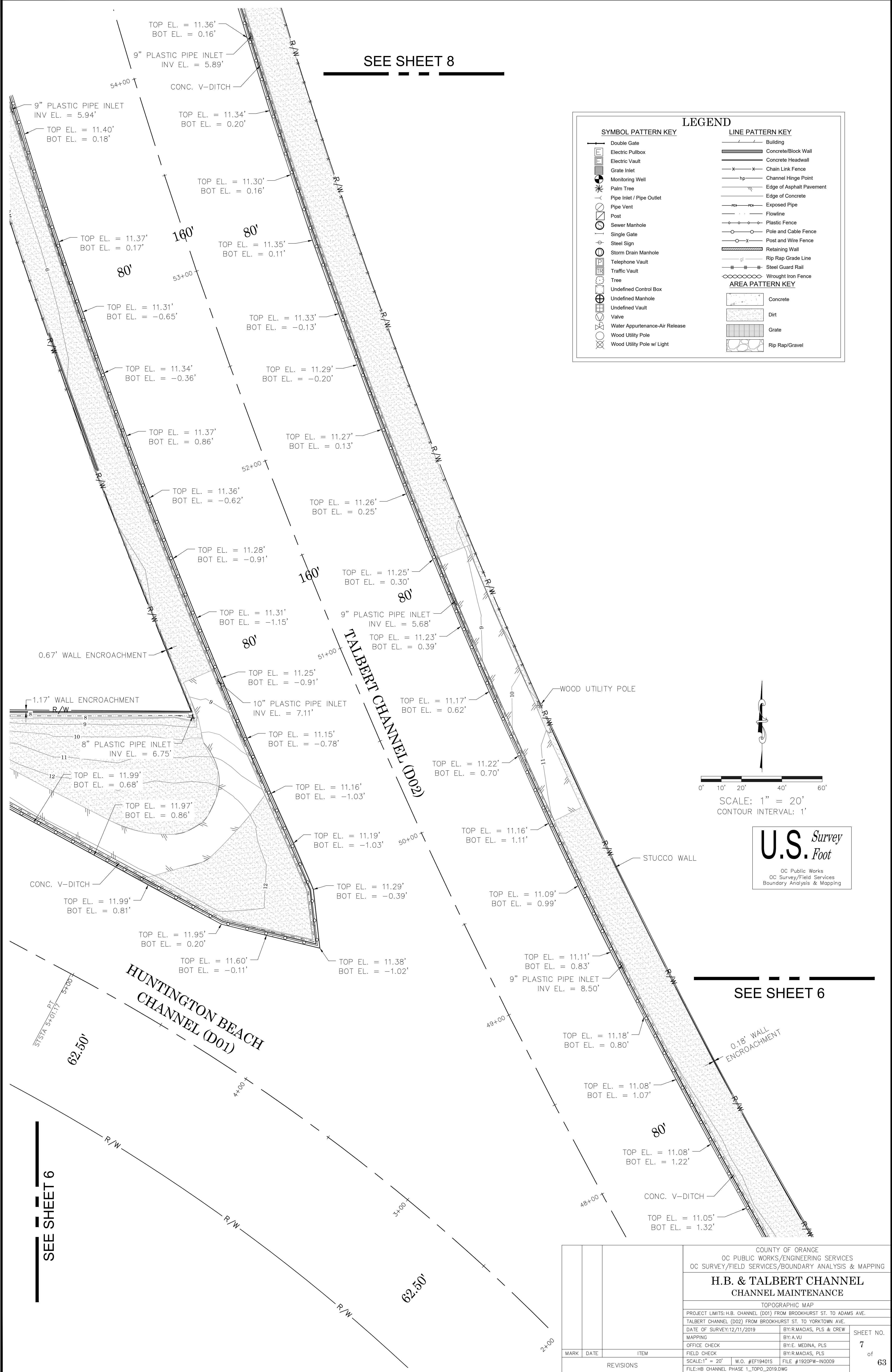
U.S. Survey Foot

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



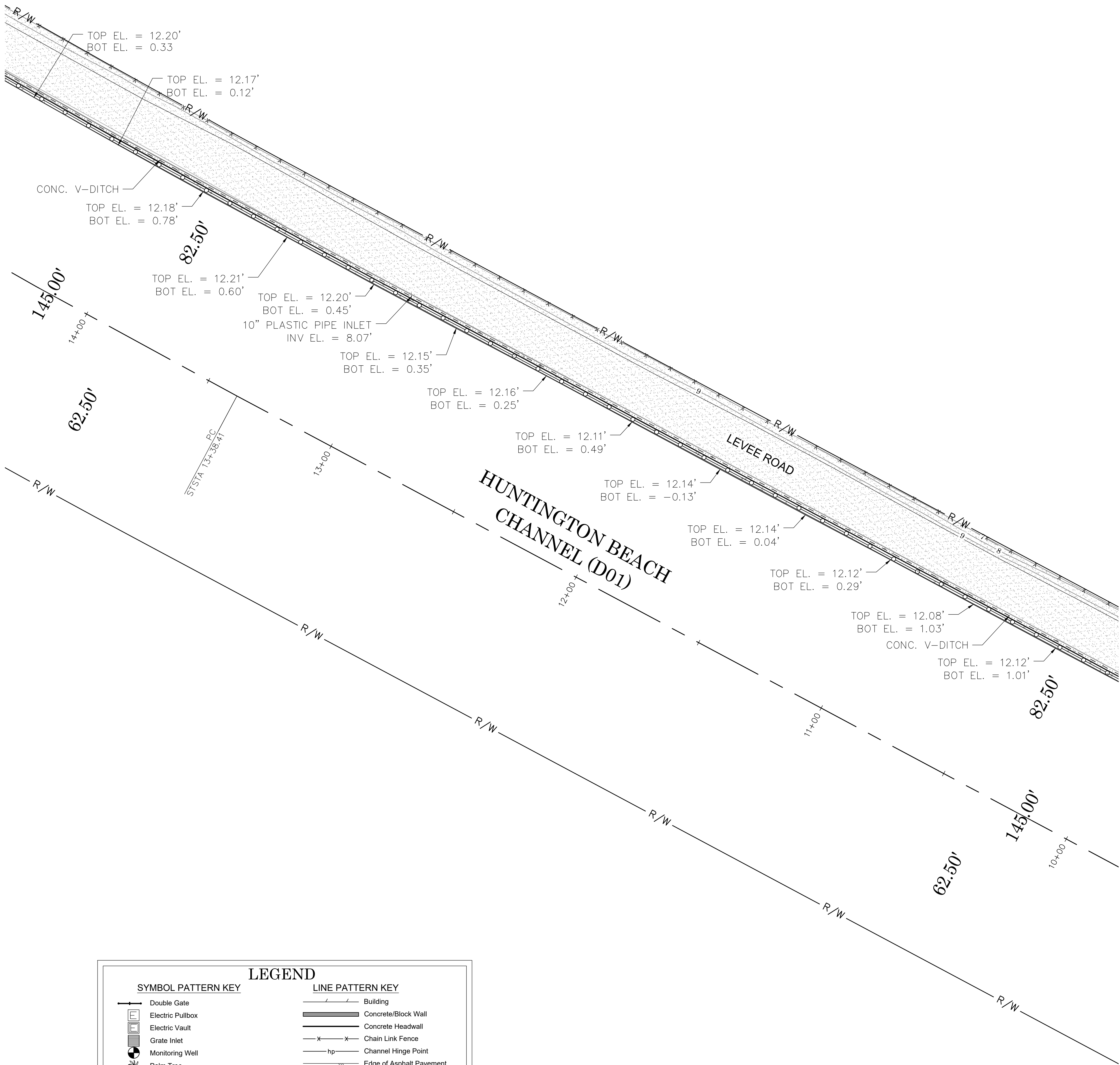
COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE		
TOPOGRAPHIC MAP		
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.		
TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.		
DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW	SHEET NO. 5 of 63
MAPPING	BY: A. VU	
OFFICE CHECK	BY: E. MEDINA, PLS	
FIELD CHECK	BY: R. MACIAS, PLS	
SCALE: 1" = 20'	W.O. #EF19401S FILE #1920PW-IN0009 FILE: HB CHANNEL PHASE 1_Topo_2019.DWG	
MARK	DATE	ITEM
REVISIONS		





			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE		
			TOPOGRAPHIC MAP		
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			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.		
			DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS. & CREW	SHEET NO. 7 of 63
			MAPPING	BY: A. VU	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: R. MACIAS, PLS	
			SCALE: 1" = 20'	W.O. #EF19401S	
			FILE: #1920PW-IN0009		
			FILE: HB CHANNEL PHASE 1_TOPO_2019.DWG		
MARK	DATE	ITEM	REVISIONS		

SEE SHEET 10



SEE SHEET 8

LEGEND

SYMBOL PATTERN KEY

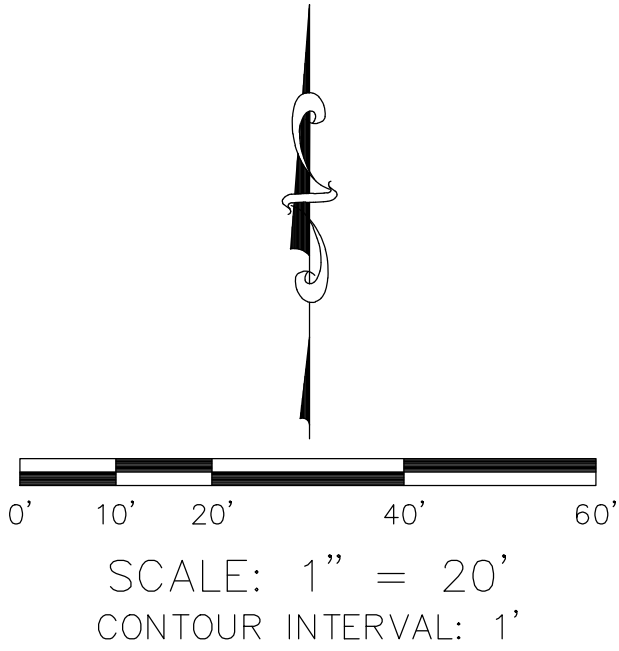
- Double Gate
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- Grate Inlet
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- Palm Tree
- Pipe Inlet / Pipe Outlet
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- Sewer Manhole
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- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
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- Chain Link Fence
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- Edge of Asphalt Pavement
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- Flowline
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- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

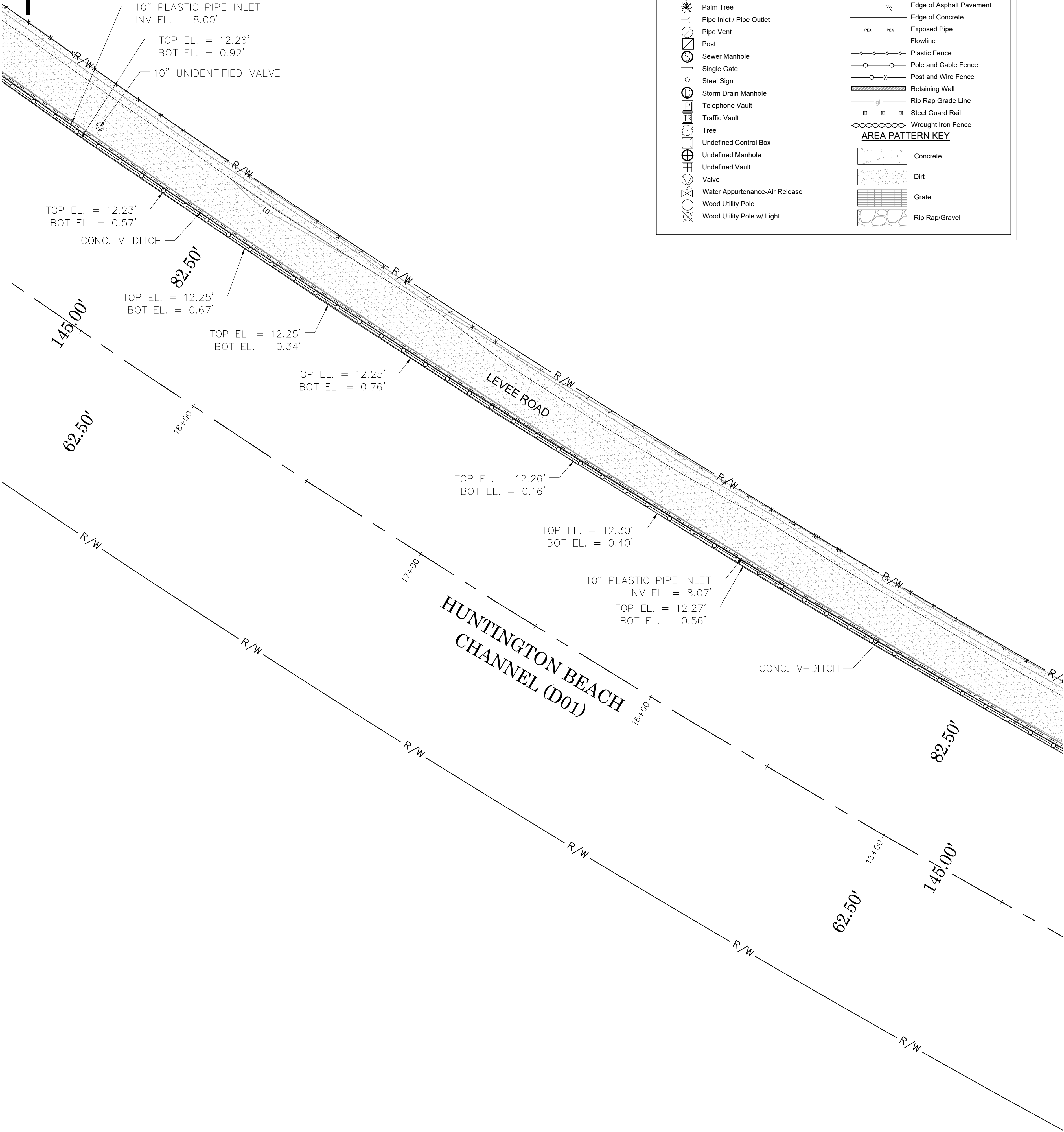


U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
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			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
MARK	DATE	ITEM	DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 9 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
			SCALE: 1" = 20'		W.O. #EF19401S	
REVISIONS			FILE #1920PW-IN0009			
			FILE: HB CHANNEL PHASE 1_TOPO_2019.DWG			

SEE SHEET 11



SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

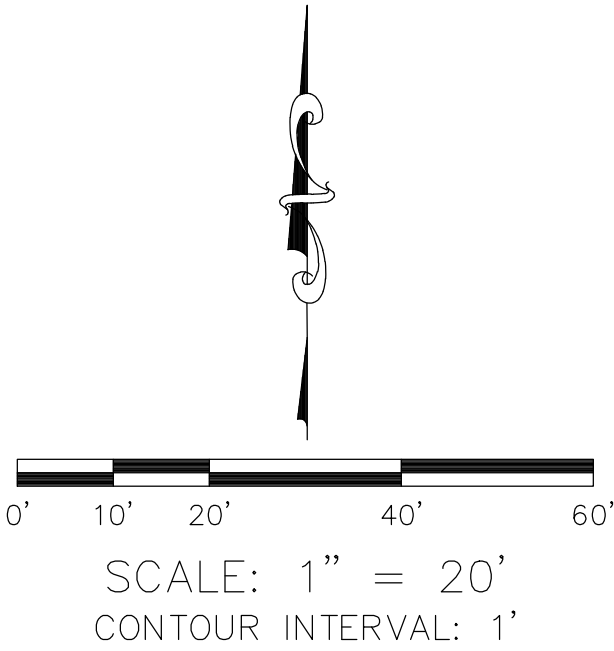
LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 9



U.S. Survey

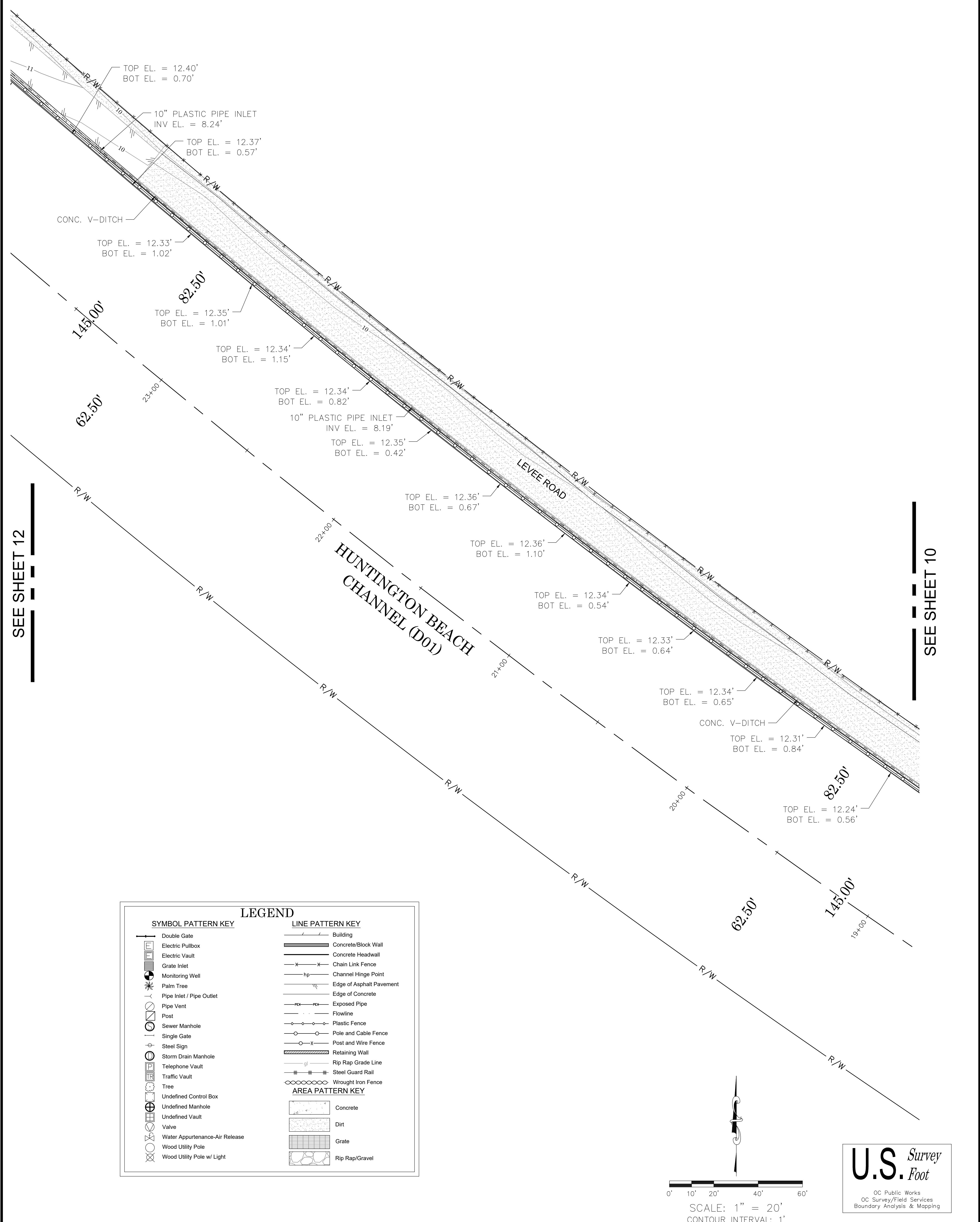
Foot

OC Public Works

OC Survey/Field Services

Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.				
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
			DATE OF SURVEY:12/11/2019		BY:R.MACIAS, PLS & CREW		SHEET NO. 10 of 63
			MAPPING		BY:A.VU		
			OFFICE CHECK		BY:E. MEDINA, PLS		
			FIELD CHECK		BY:R.MACIAS, PLS		
MARK	DATE	ITEM	SCALE:1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009	
		REVISIONS		FILE:HB CHANNEL PHASE 1_TOPO_2019.DWG			



LEGEND

SYMBOL PATTERN KEY

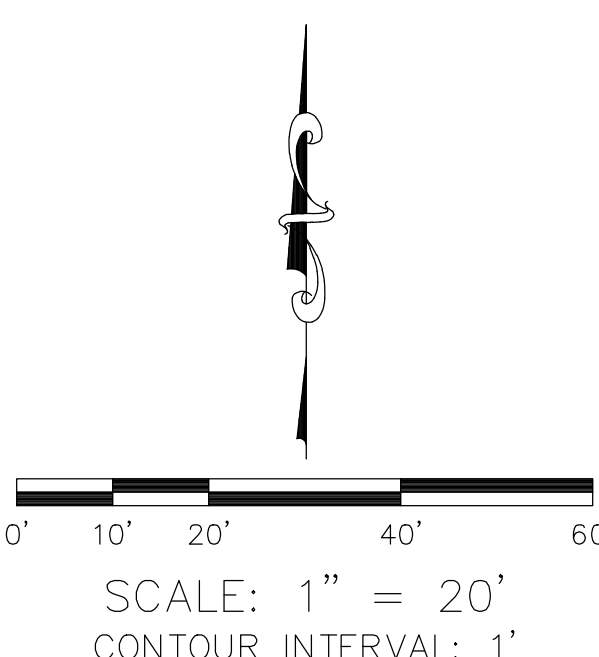
- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

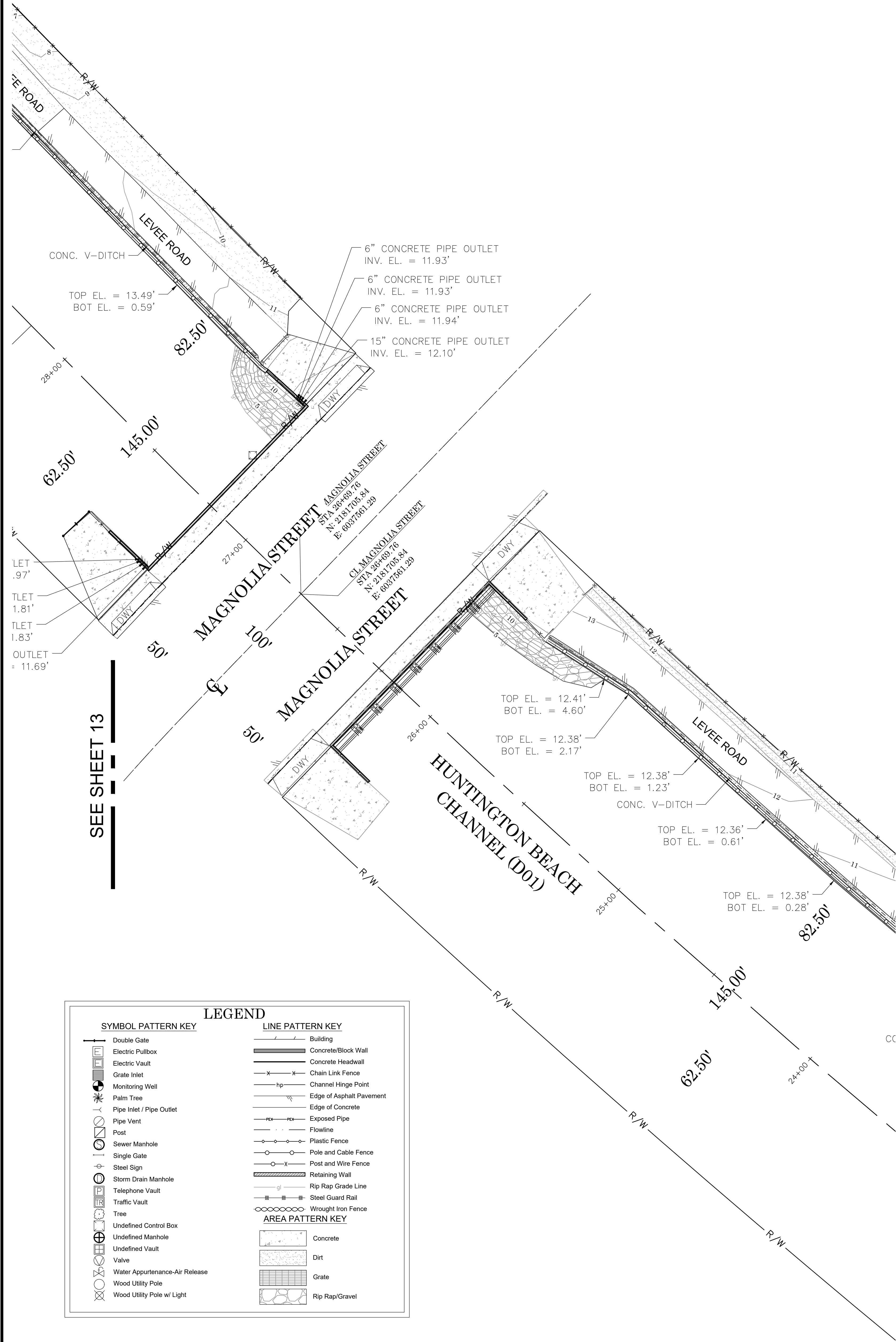
- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
			DATE OF SURVEY: 12/11/2019		BY: R.MACIAS, PLS & CREW		SHEET NO. 11 of 63
			MAPPING		BY: A.VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R.MACIAS, PLS		
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009
			FILE: HB CHANNEL PHASE 1_TOPO_2019.DWG				
REVISIONS							



SEE SHEET 13

SEE SHEET 11

LEGEND

SYMBOL PATTERN KEY

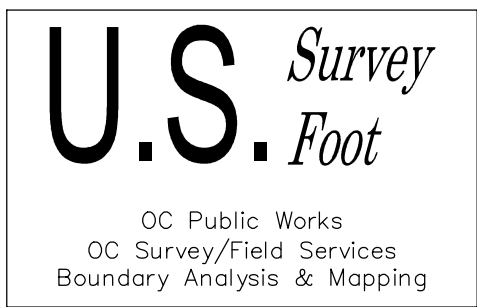
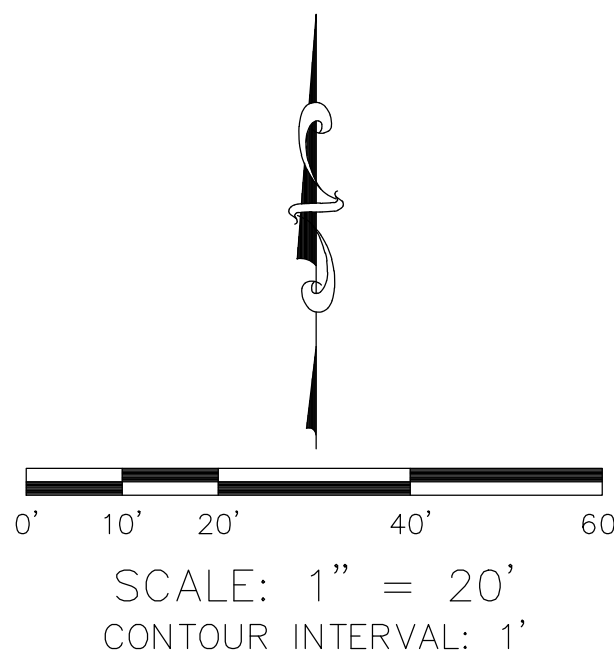
	Double Gate
	Electric Pullbox
	Electric Vault
	Grate Inlet
	Monitoring Well
	Palm Tree
	Pipe Inlet / Pipe Outlet
	Pipe Vent
	Post
	Sewer Manhole
	Single Gate
	Steel Sign
	Storm Drain Manhole
	Telephone Vault
	Traffic Vault
	Tree
	Undefined Control Box
	Undefined Manhole
	Undefined Vault
	Valve
	Water Appurtenance-Air Release
	Wood Utility Pole
	Wood Utility Pole w/ Light

LINE PATTERN KEY

	Building
	Concrete/Block Wall
	Concrete Headwall
	Chain Link Fence
	Channel Hinge Point
	Edge of Asphalt Pavement
	Edge of Concrete
	Exposed Pipe
	Flowline
	Plastic Fence
	Pole and Cable Fence
	Post and Wire Fence
	Retaining Wall
	Rip Rap Grade Line
	Steel Guard Rail
	Wrought Iron Fence

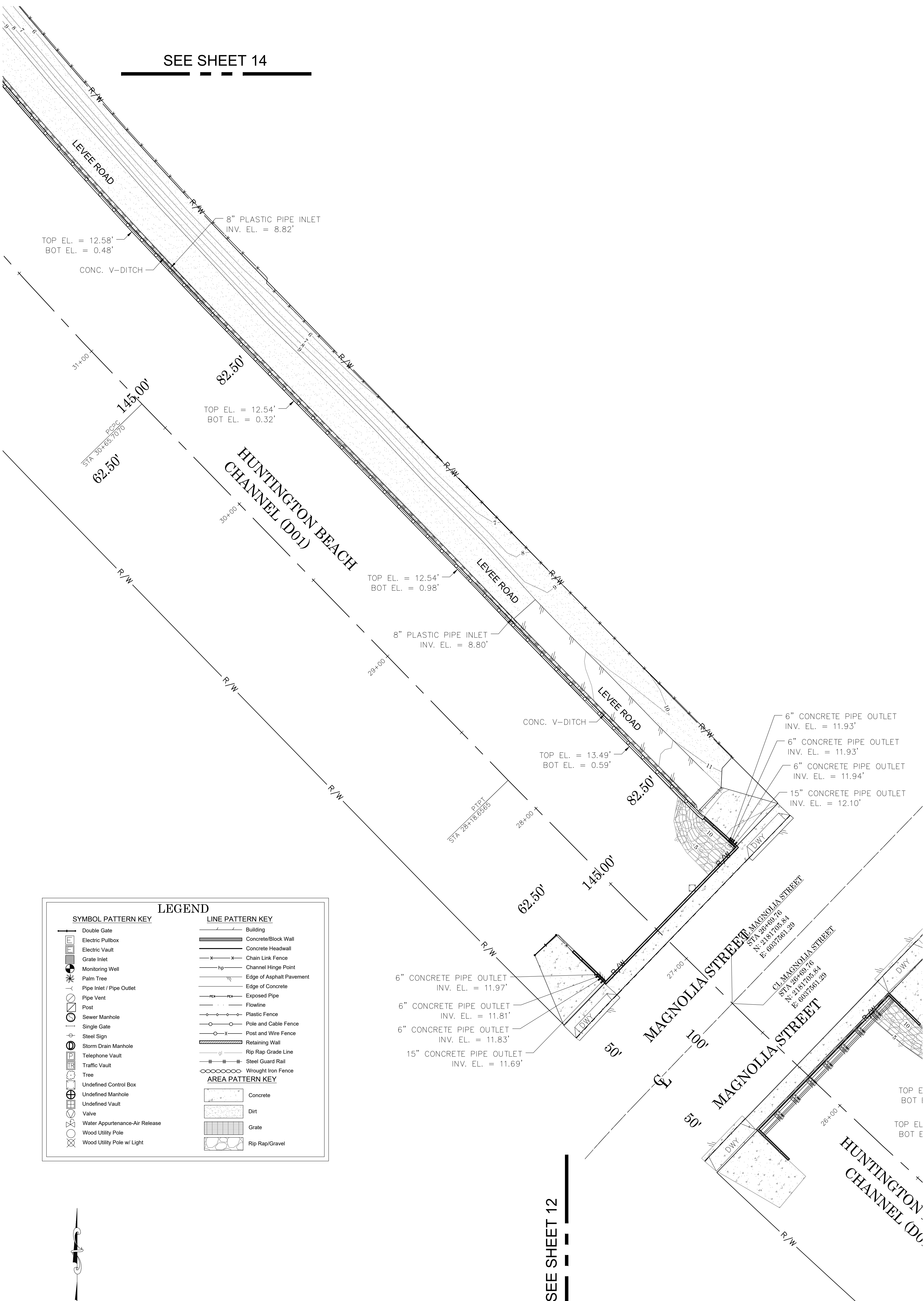
AREA PATTERN KEY

	Concrete
	Dirt
	Grate
	Rip Rap/Gravel



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
MARK	DATE	ITEM	DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 12 of 63	
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
REVISIONS			SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009		
			FILE: HB CHANNEL PHASE 1_TOPO_2019.DWG				

SEE SHEET 14



LEGEND

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 12

0' 10' 20' 40' 60'

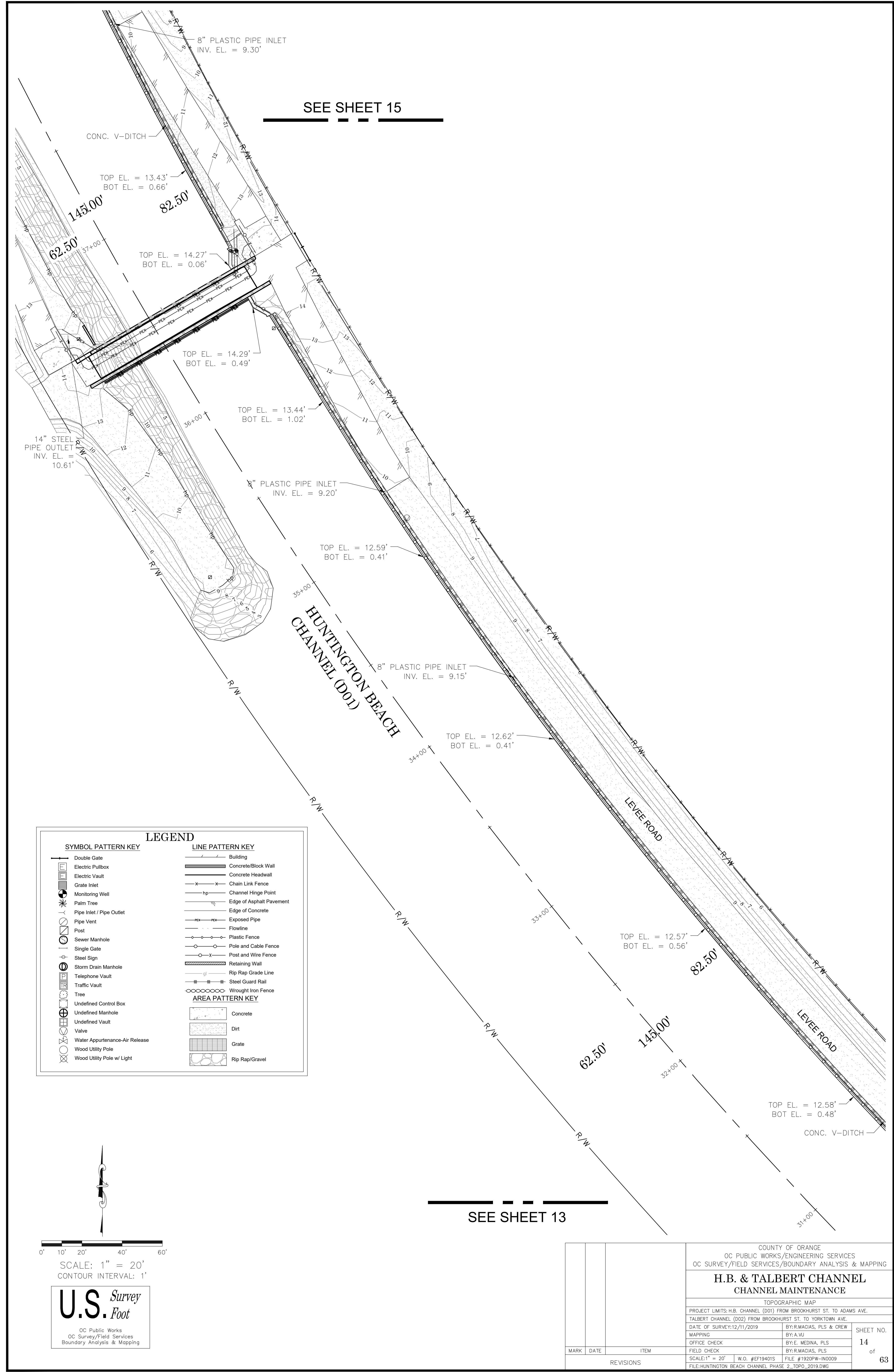
SCALE: 1" = 20'

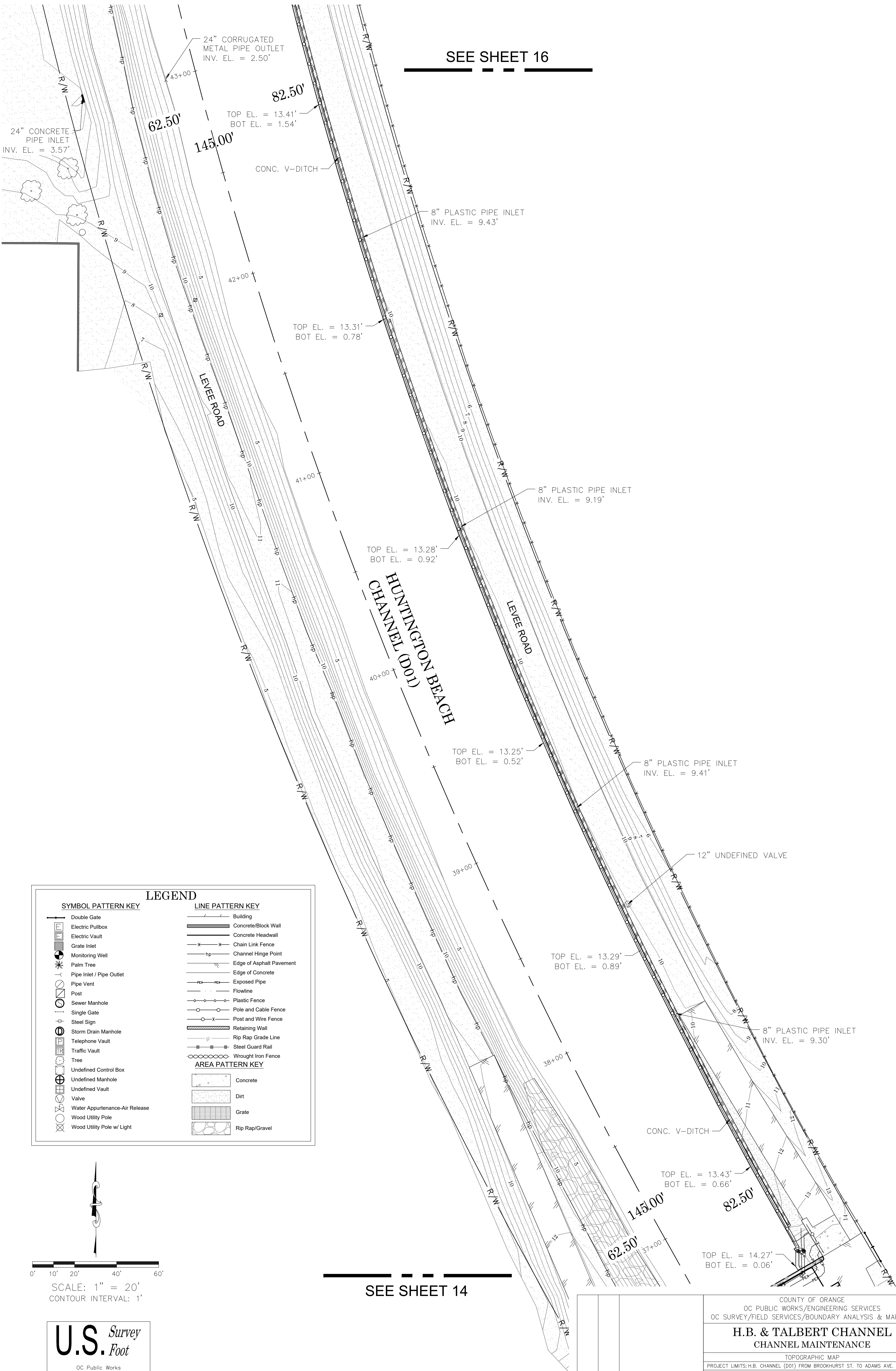
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY:12/11/2019		BY:R.MACIAS, PLS & CREW	SHEET NO. 13 of 63
			MAPPING		BY:A.VU	
			OFFICE CHECK		BY:E. MEDINA, PLS	
			FIELD CHECK		BY:R.MACIAS, PLS	
			SCALE:1" = 20'		W.O. #EF19401S FILE #1920PW-IN0009	
MARK	DATE	ITEM	FILE:HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG			
		REVISIONS				





SEE SHEET 16

HUNTINGTON BEACH
CHANNEL (D01)

SEE SHEET 14

LEGEND

SYMBOL PATTERN KEY

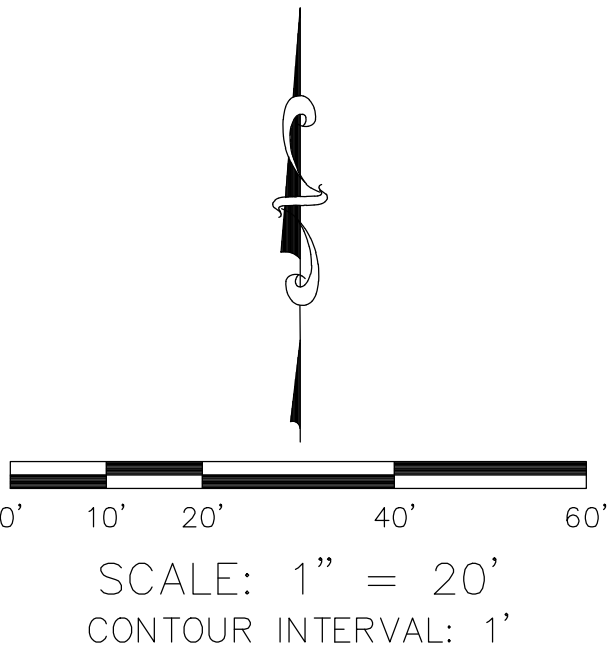
- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 15 of 63		
MAPPING		BY: A.VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009		
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG			

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

27" UNDEFINED MANHOLE
RIM EL.=9.53'

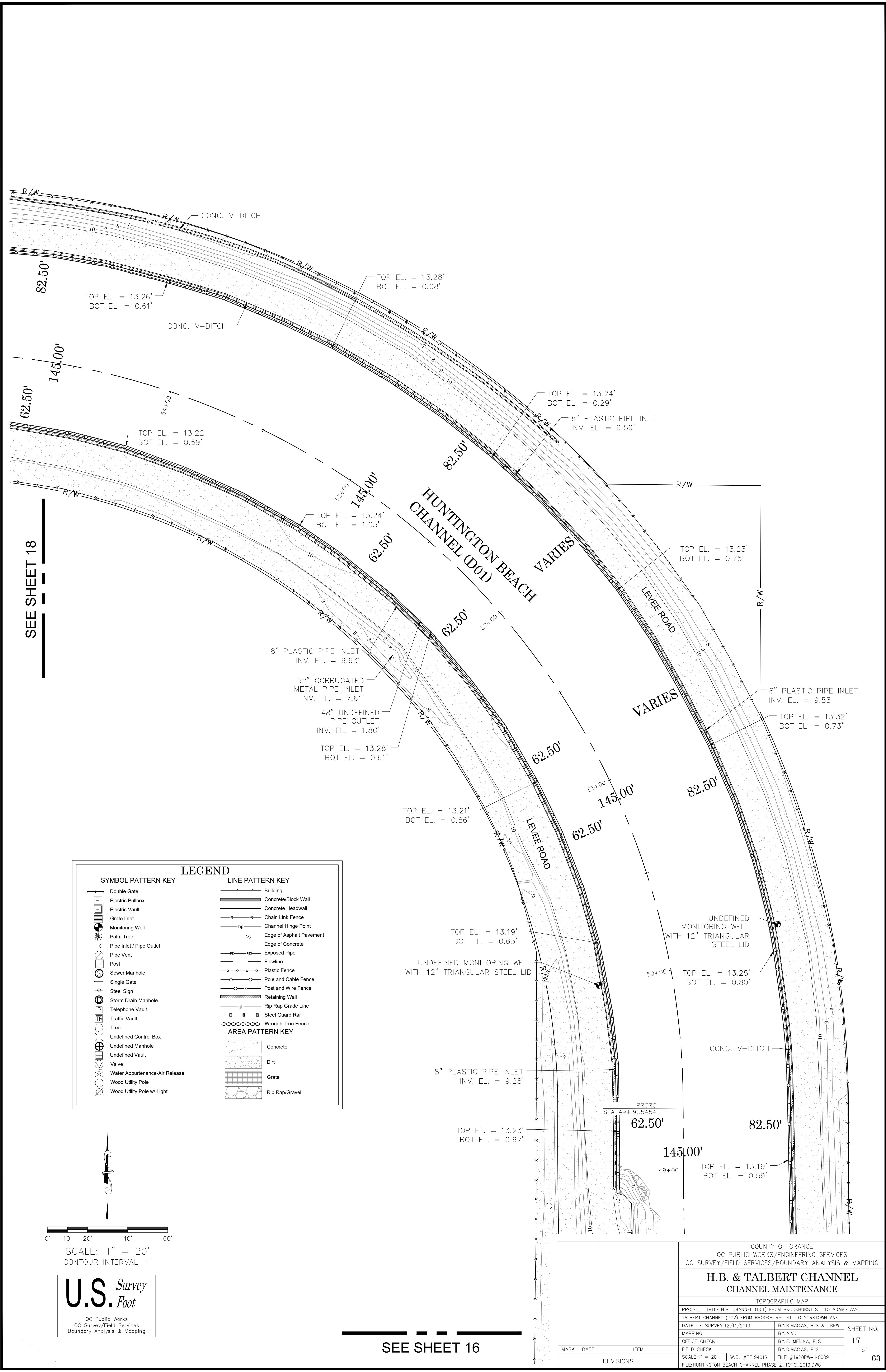


SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey
Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		MAPPING		BY: R. MACIAS, PLS & CREW BY: A.VU		SHEET NO. 16 of 63
OFFICE CHECK		FIELD CHECK		BY: E. MEDINA, PLS BY: R. MACIAS, PLS		
MARK	DATE	ITEM				
REVISIONS				SCALE: 1" = 20' W.O. #EF19401S FILE #1920PW-IN0009 FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG		



SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

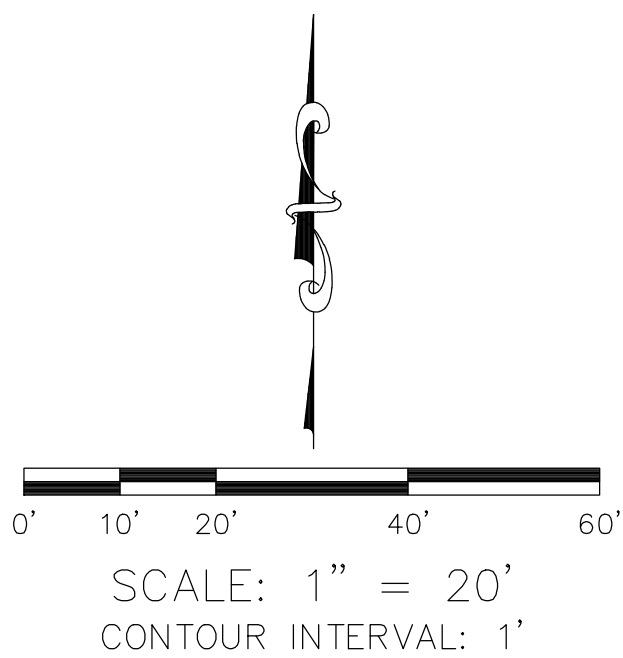
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



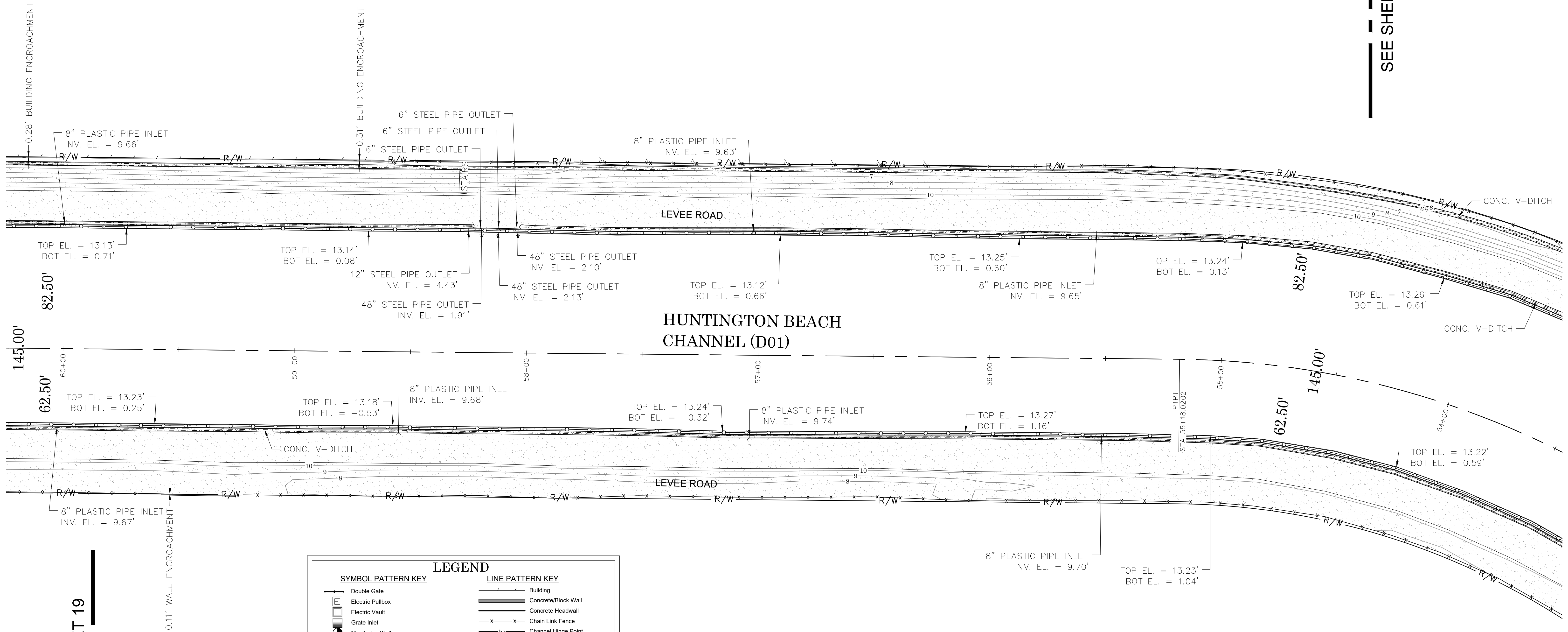
U.S. Survey
Foot

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

SEE SHEET 16

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
MARK	DATE	ITEM	DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 17 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
			SCALE: 1" = 20'		W.O. #EF19401S	
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG			

SEE SHEET 17



SEE SHEET 19

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

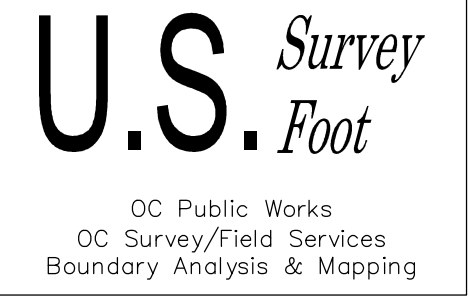
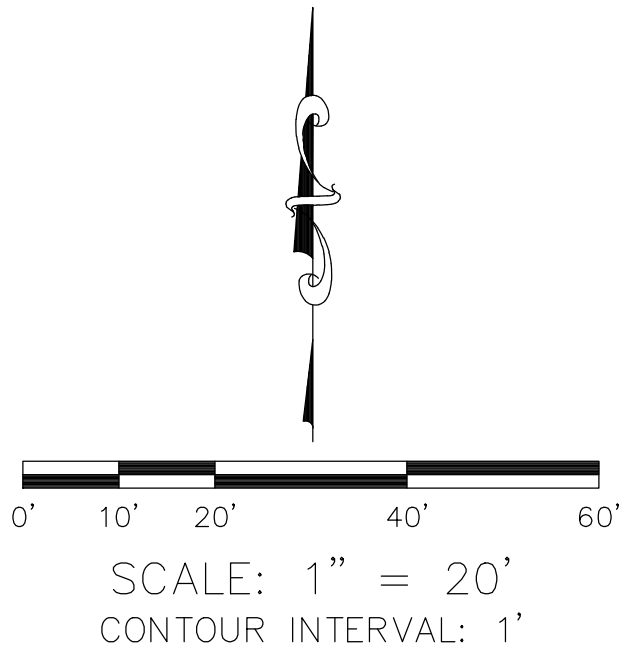
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

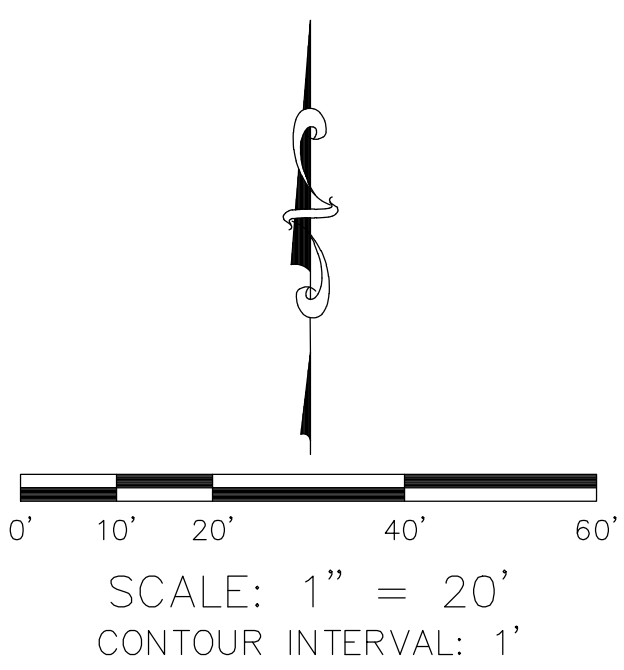
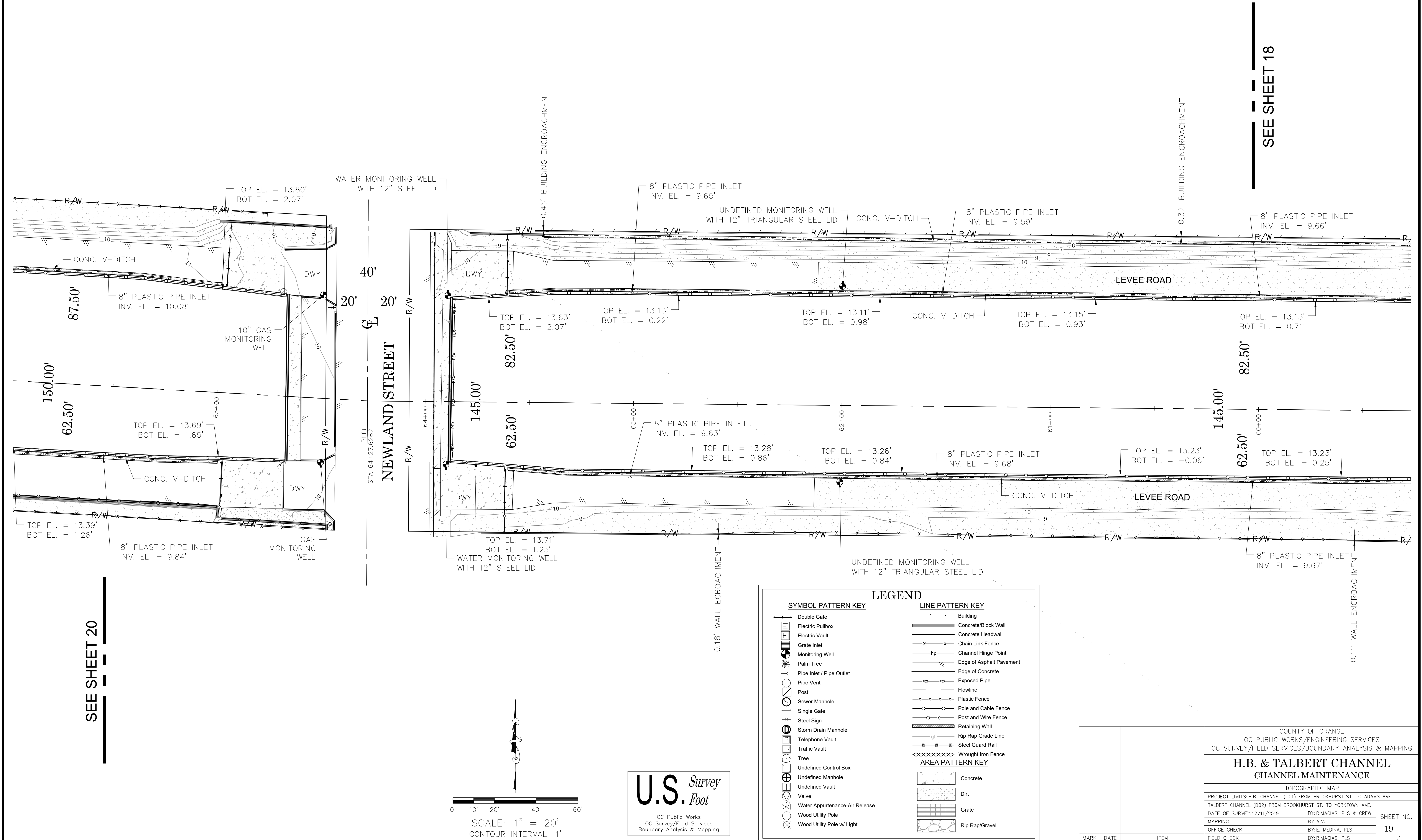
- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.	
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
			DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW
			MAPPING	BY: A. VU
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: R. MACIAS, PLS
			SCALE: 1" = 20'	W.O. #EF194013
			FILE: #1920PW-IN0009	
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG	
MARK	DATE	ITEM		
			REVISIONS	

SEE SHEET 18

SEE SHEET 20



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

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

				COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
		TOPOGRAPHIC MAP			
		PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
		DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	
		MAPPING		BY: A. VU	
		OFFICE CHECK		BY: E. MEDINA, PLS	
		FIELD CHECK		BY: R. MACIAS, PLS	
		SCALE: 1" = 20'		W.O. #EF194013	
				FILE #1920PW-IN0009	
		FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG			
		REVISIONS			
MARK	DATE				
		19 of 63			

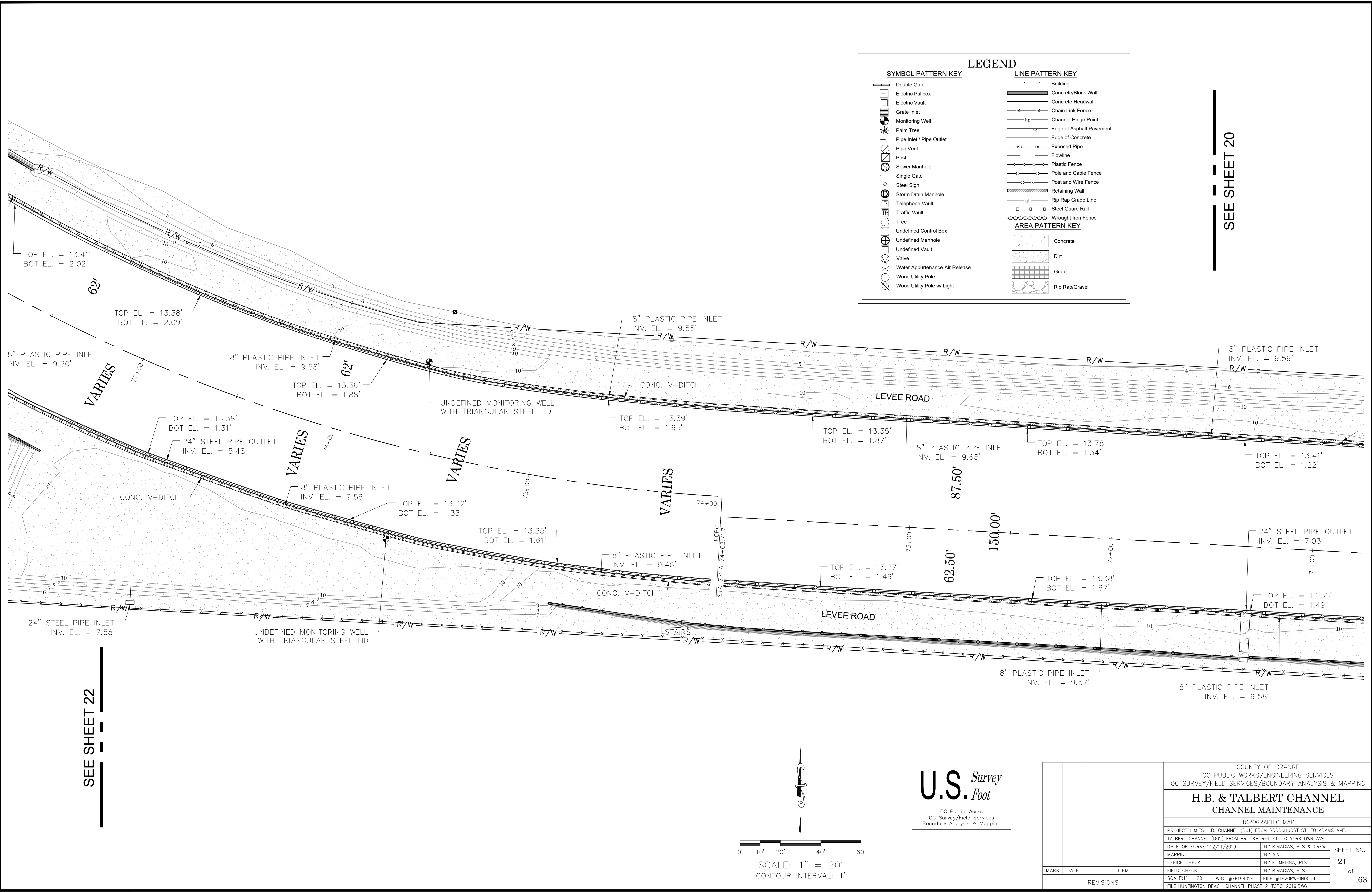


0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.		
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.		
			DATE OF SURVEY: 12/11/2019	BY: R.MACIAS, PLS & CREW	SHEET NO. 20 of 63
			MAPPING	BY: A.VU	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: R.MACIAS, PLS	
			SCALE: 1" = 20'	W.O. #EF19401S FILE #1920PW-IN009	
SCALE: HUNTINGTON BEACH CHANNEL PHASE 2 TOPO_2019.DWG					
REVISIONS					
MARK	DATE	ITEM			



SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 20

SEE SHEET 22

U.S. Survey

Foot

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



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

MARK		DATE		ITEM		COUNTY OF ORANGE		SHEET NO. 21 of 63			
						OC PUBLIC WORKS/ENGINEERING SERVICES					
						OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
						H.B. & TALBERT CHANNEL					
						CHANNEL MAINTENANCE					
						TOPOGRAPHIC MAP					
						PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.					
						TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
						DATE OF SURVEY: 12/11/2019				BY: R. MACIAS, PLS & CREW	
						MAPPING				BY: A. VU	
OFFICE CHECK		BY: E. MEDINA, PLS									
FIELD CHECK		BY: R. MACIAS, PLS									
SCALE: 1" = 20'		W.O. #EF194013		FILE #1920PW-IN0009							
FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG											

SEE SHEET 23

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Gate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

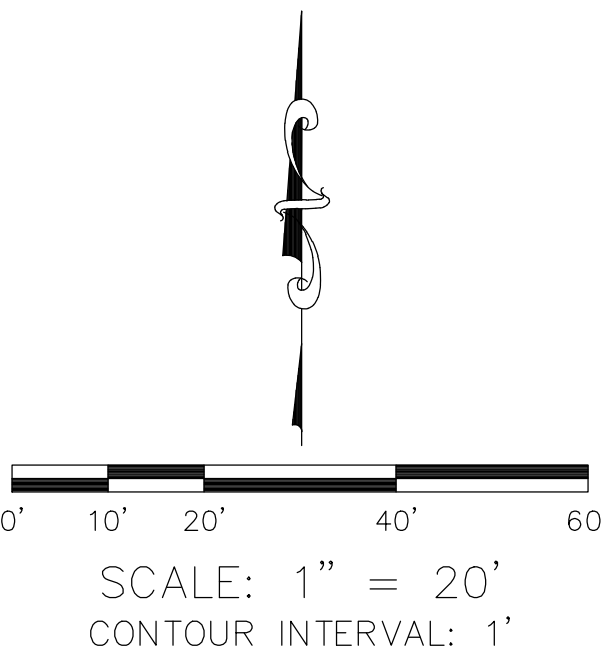
LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 21



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

COUNTY OF ORANGE	
OC PUBLIC WORKS/ENGINEERING SERVICES	
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
H.B. & TALBERT CHANNEL	
CHANNEL MAINTENANCE	
TOPOGRAPHIC MAP	
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.	
TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
DATE OF SURVEY: 12/11/2019	BY: R.MACIAS, PLS & CREW
MAPPING	BY: A.VU
OFFICE CHECK	BY: E. MEDINA, PLS
FIELD CHECK	BY: R.MACIAS, PLS
SCALE: 1" = 20'	W.O. #EF194013
FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG	FILE #1920PW-IN0009

MARK	DATE	ITEM
REVISIONS		

SHEET NO.
22
of
63

SEE SHEET 24

LEGEND

SYMBOL PATTERN KEY

Double Gate

Electric Pullbox

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Telephone Vault

Traffic Vault

Tree

Undefined Control Box

Undefined Manhole

Undefined Vault

Valve

Water Appurtenance-Air Release

Wood Utility Pole

Wood Utility Pole w/ Light

LINE PATTERN KEY

Building

Concrete/Block Wall

Concrete Headwall

Chain Link Fence

Channel Hinge Point

Edge of Asphalt Pavement

Edge of Concrete

Exposed Pipe

Flowline

Plastic Fence

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

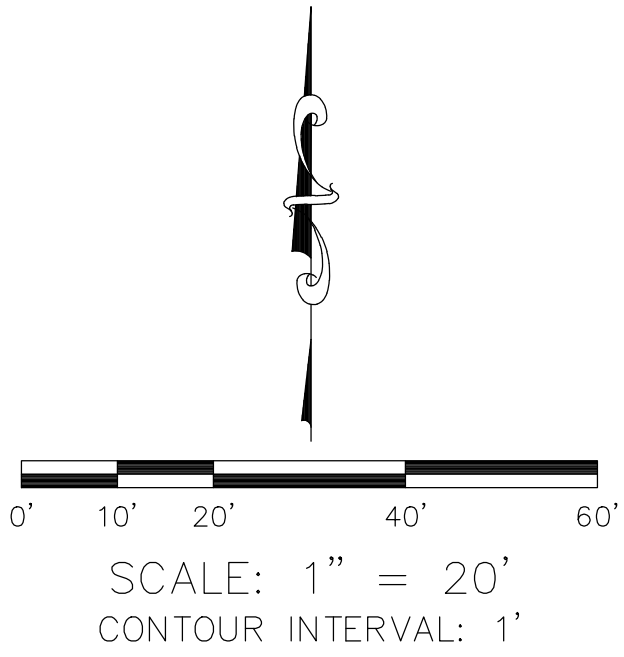
AREA PATTERN KEY

Concrete

Dirt

Grate

Rip Rap/Gravel



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

SEE SHEET 22

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 23 of 63	
			MAPPING		BY: A. VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG					
REVISIONS								

SEE SHEET 25

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

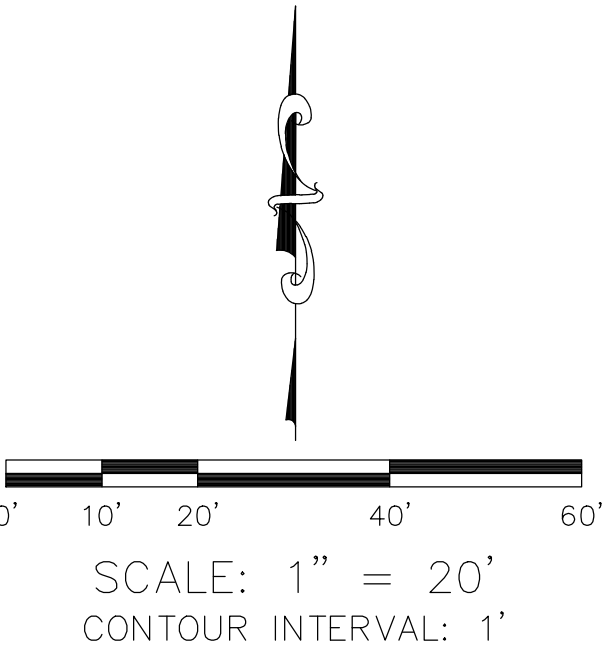
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



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

SEE SHEET 23

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
MARK	DATE	ITEM	DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 24 of 63	
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
REVISIONS			SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009		
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG				

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

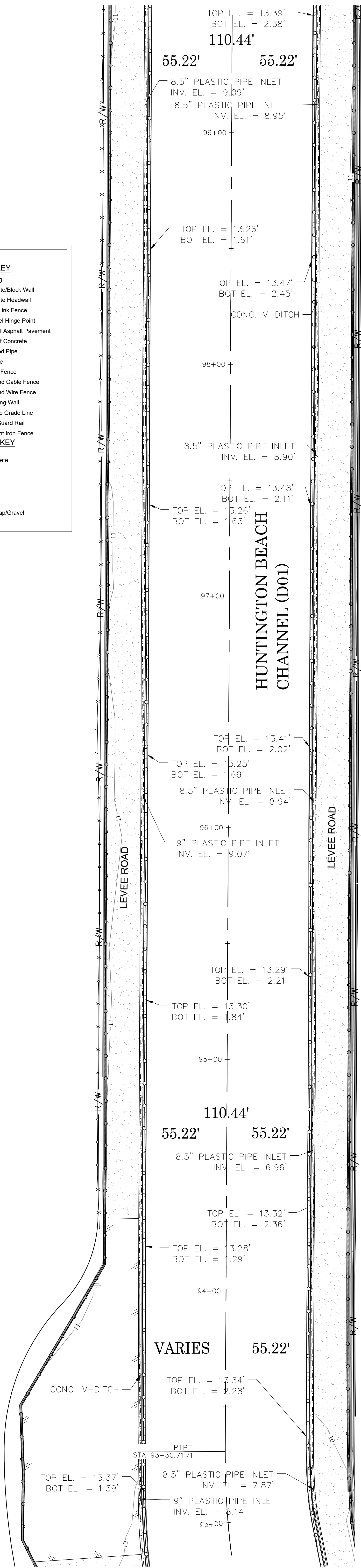
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 26



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey
Foot

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

SEE SHEET 24

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
MARK	DATE	ITEM	DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 25 of 63	
			MAPPING		BY: A.VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
			SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009		
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG				

SEE SHEET 27

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

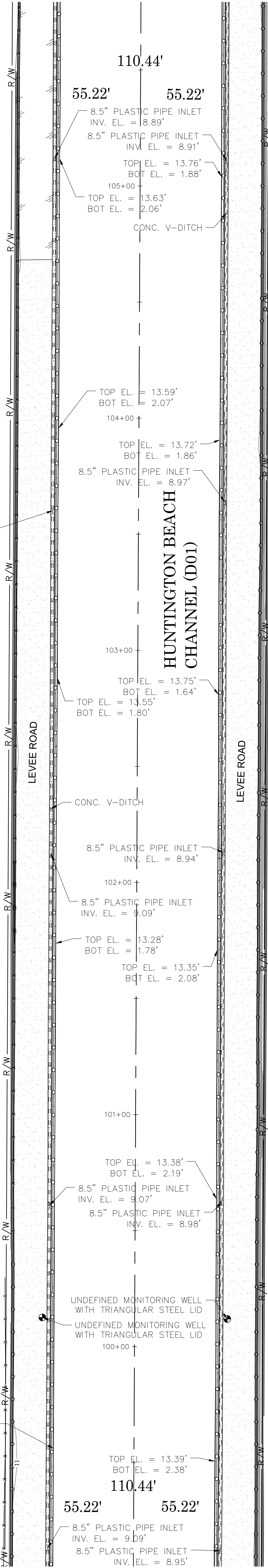
LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

8.5" PLASTIC PIPE INLET
INV. EL. = 9.24'



SEE SHEET 25



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 26 of 63		
MAPPING		BY: A.VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009		
REVISIONS		FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG				

ATLANTA AVENUE

SEE SHEET 28

LEGEND

SYMBOL PATTERN KEY

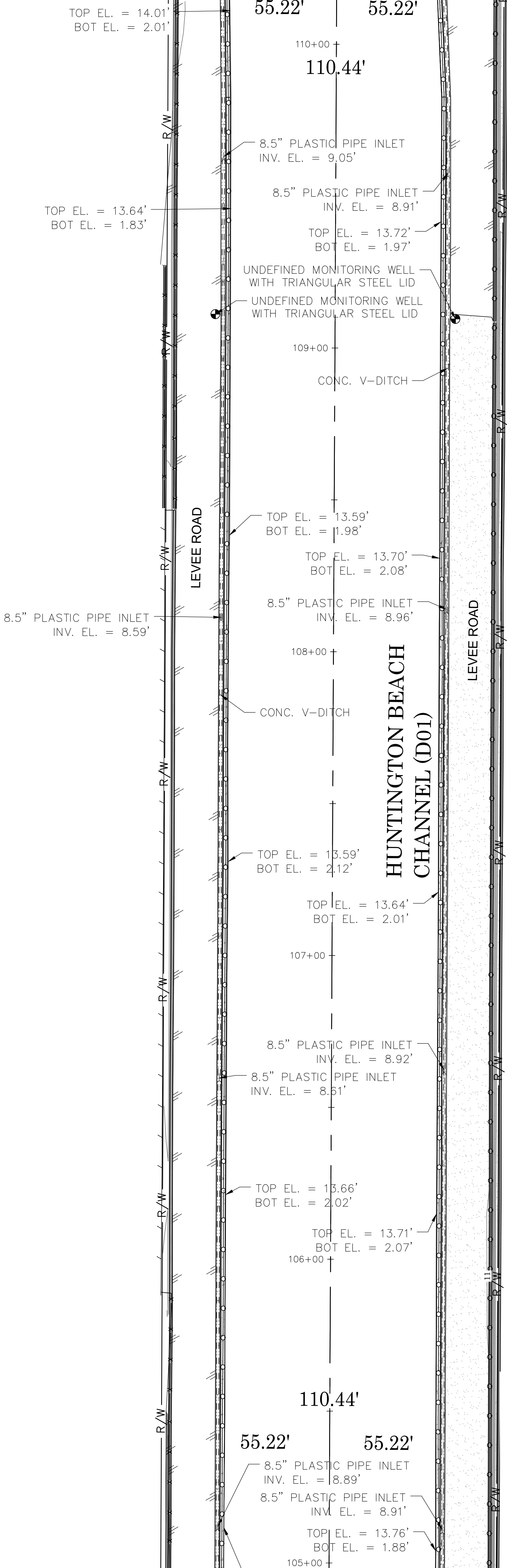
- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

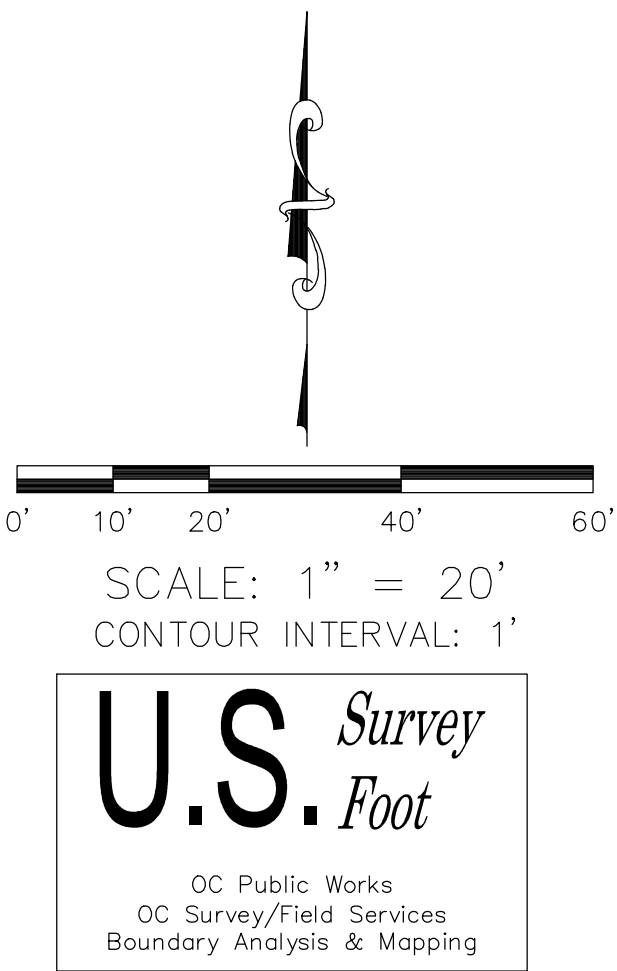
- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 26



U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY:12/11/2019		BY:R.MACIAS, PLS & CREW		SHEET NO. 27 of 63	
			MAPPING		BY:A.VU			
			OFFICE CHECK		BY:E. MEDINA, PLS			
			FIELD CHECK		BY:R.MACIAS, PLS			
MARK	DATE	ITEM	SCALE:1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
REVISIONS			FILE:HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG					

SEE SHEET 29

SYMBOL PATTERN KEY

- Double Gate
- Electric Pulbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

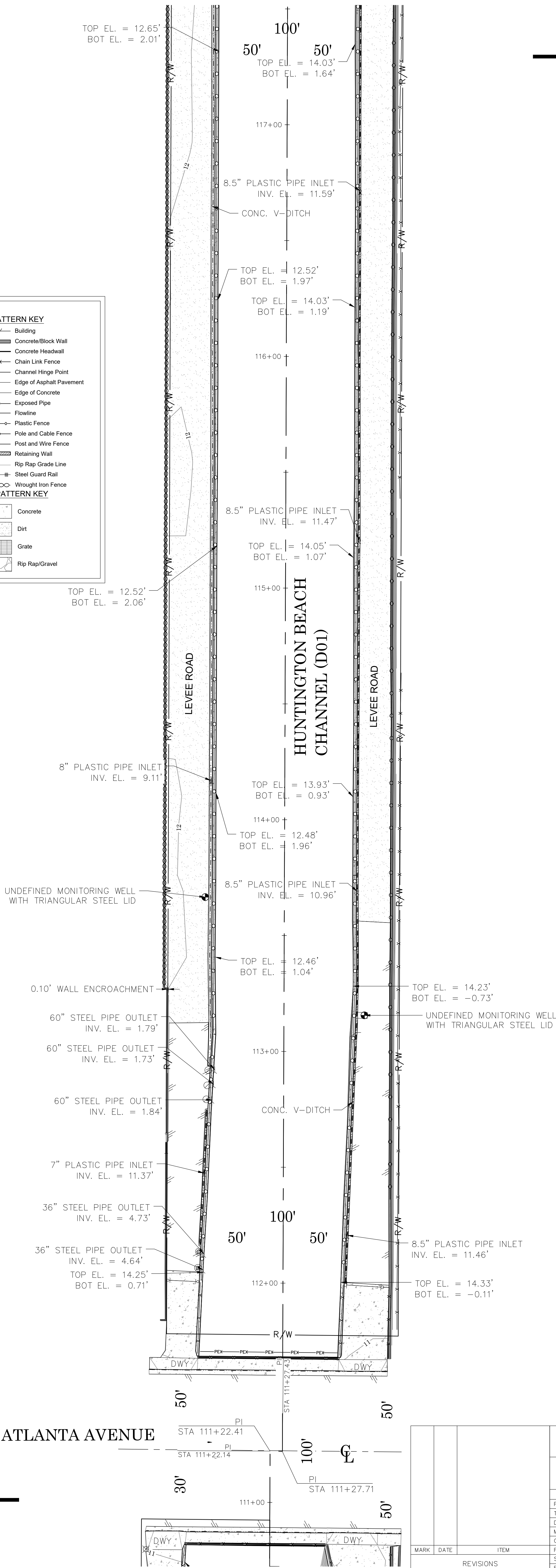
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel





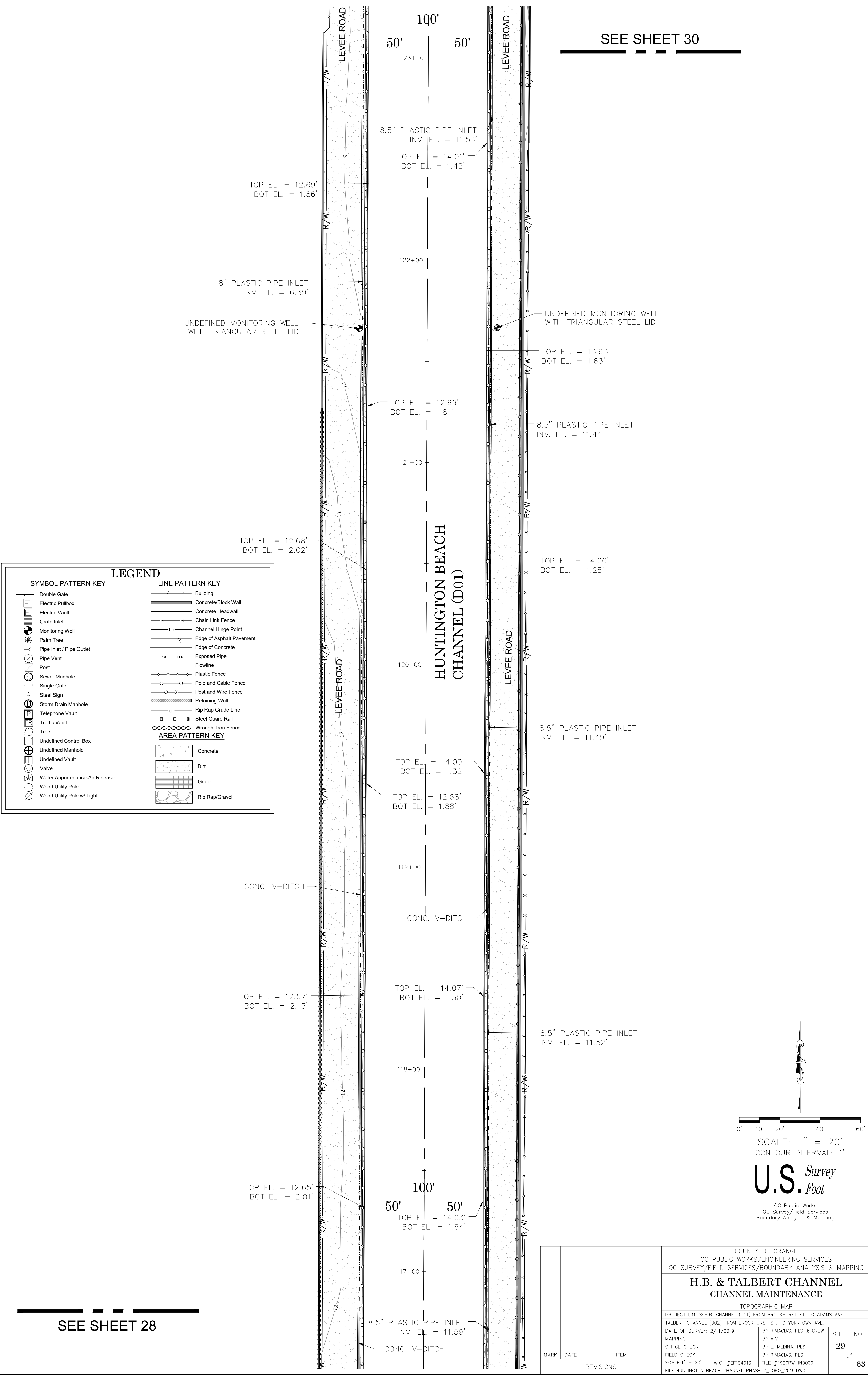
SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

SEE SHEET 27

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 28 of 63
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
			SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG				
MARK	DATE	ITEM	REVISIONS				



SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

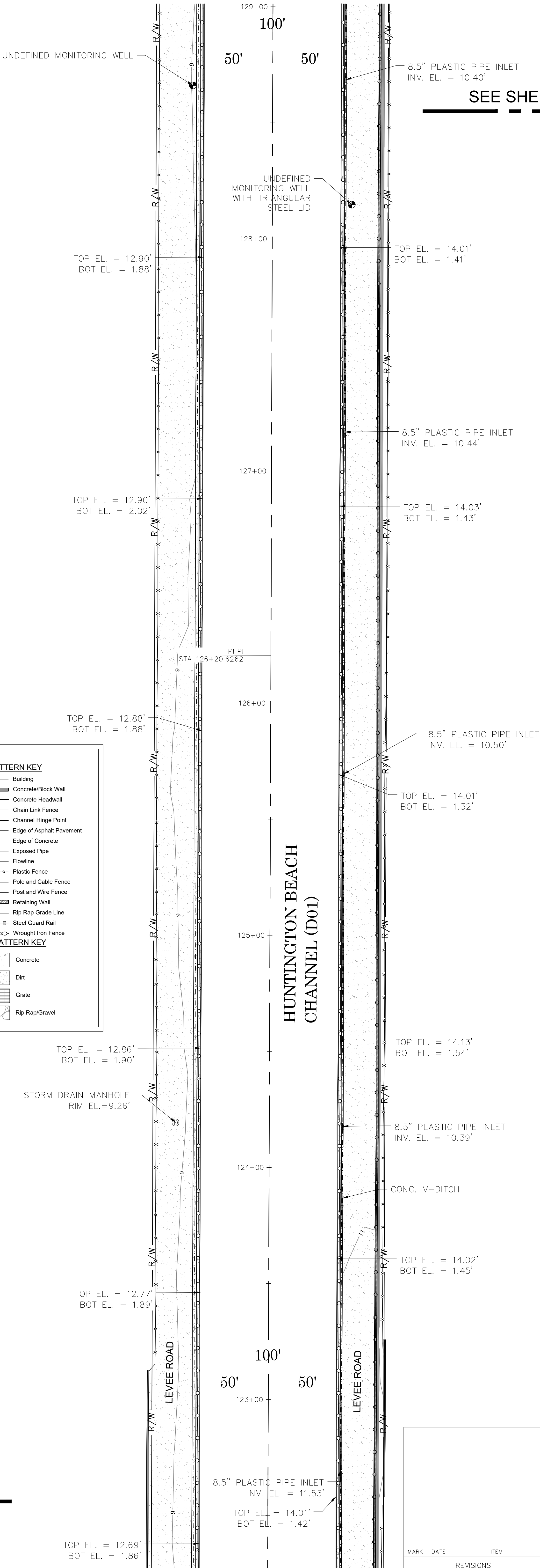
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel





SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey
Foot

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

SEE SHEET 29

SEE SHEET 31

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		MAPPING		BY: R. MACIAS, PLS & CREW BY: A.VU		SHEET NO. 30 of 63
OFFICE CHECK		FIELD CHECK		BY: E. MEDINA, PLS BY: R. MACIAS, PLS		
SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009		
REVISIONS				FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG		

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

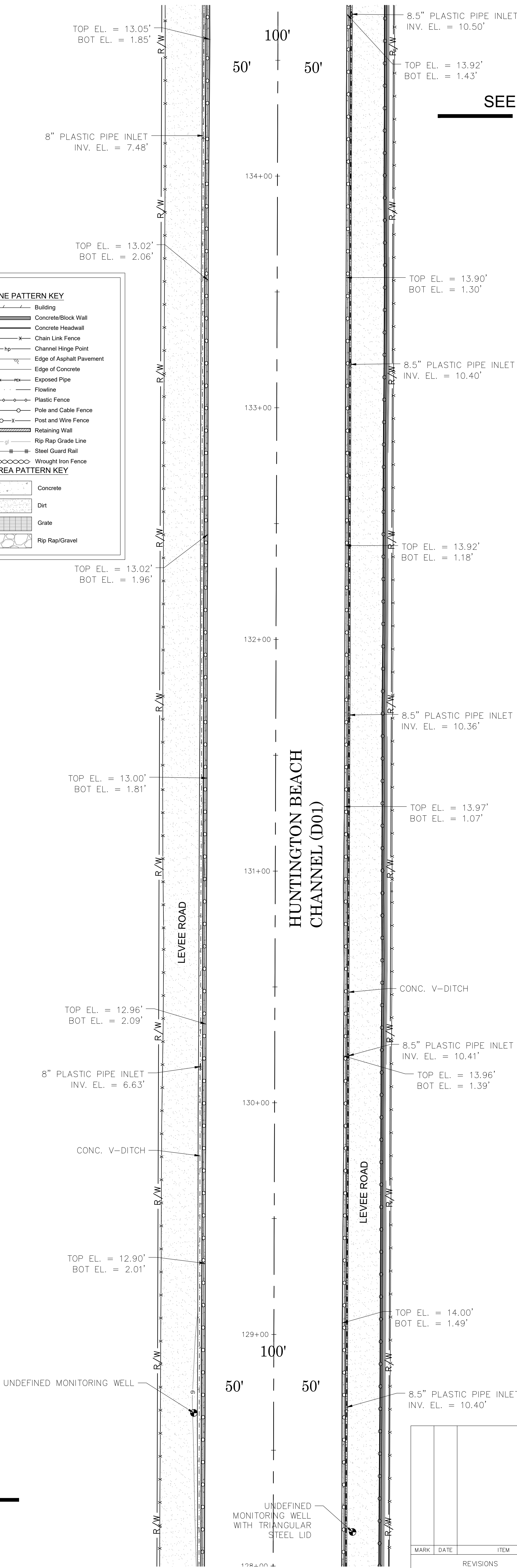
LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 30



0' 10' 20' 40' 60'

SCALE: 1" = 20'

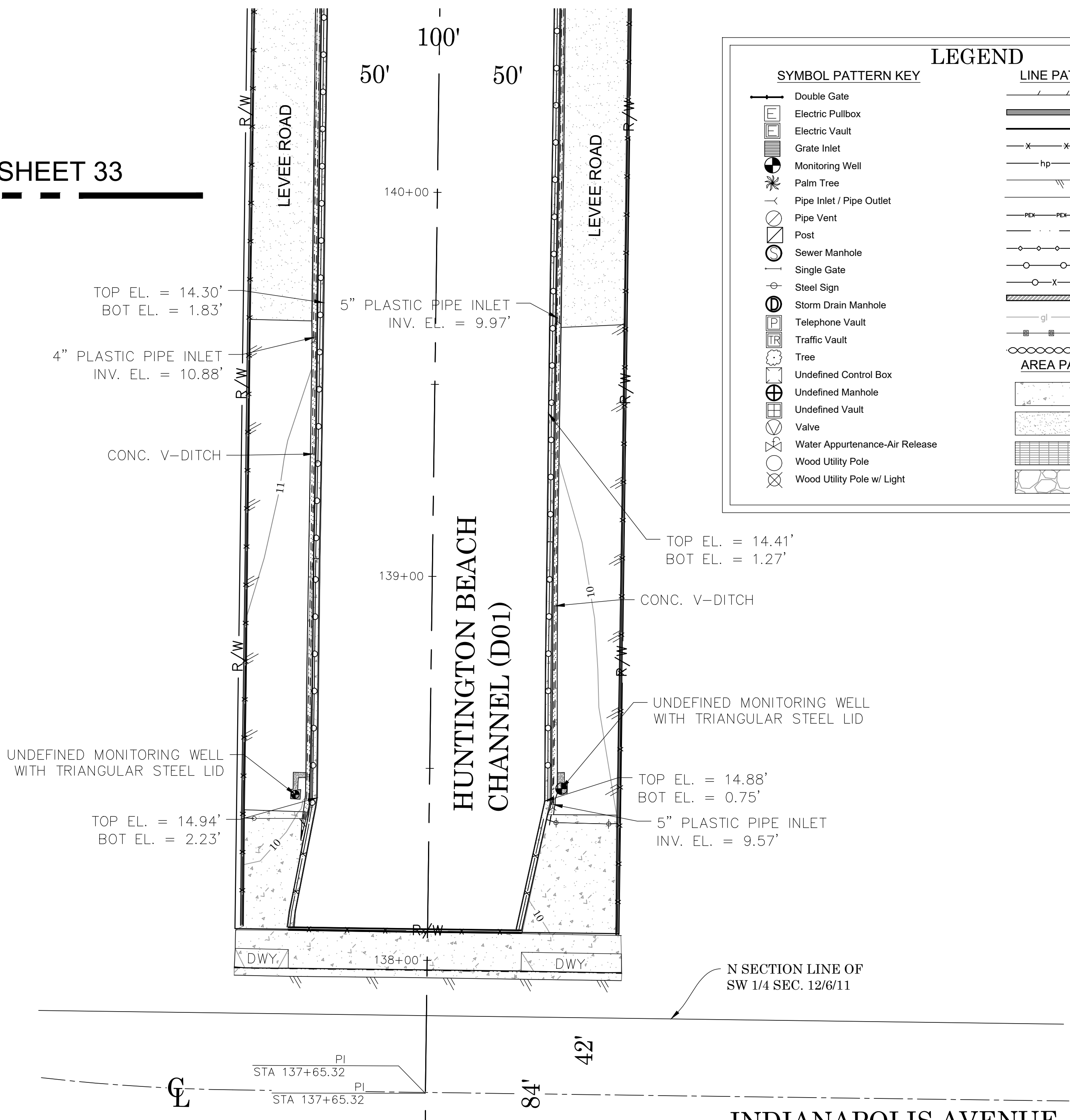
CONTOUR INTERVAL: 1'

U.S. Survey Foot

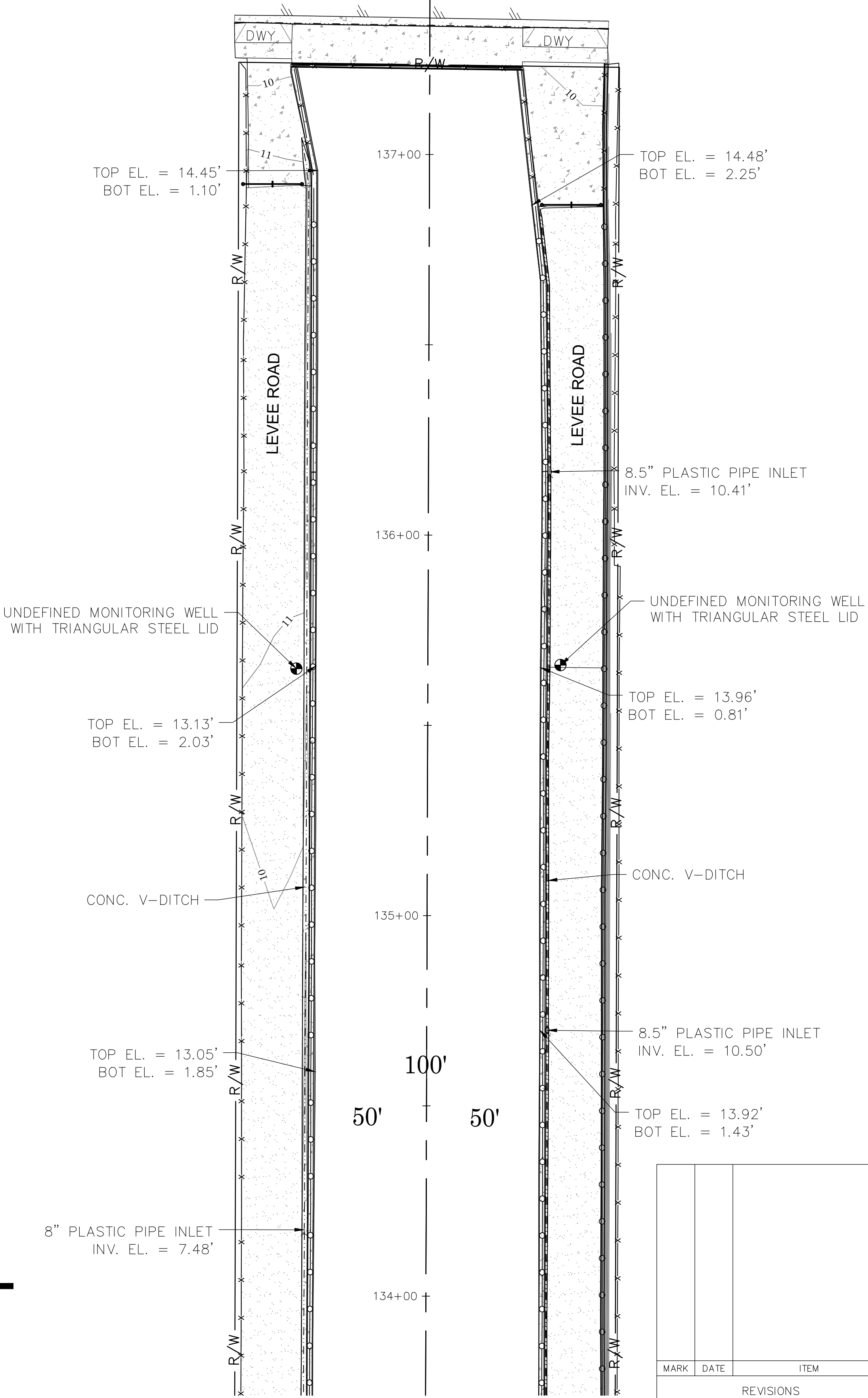
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 31 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2 TOPO 2019.DWG			
REVISIONS						

SEE SHEET 33

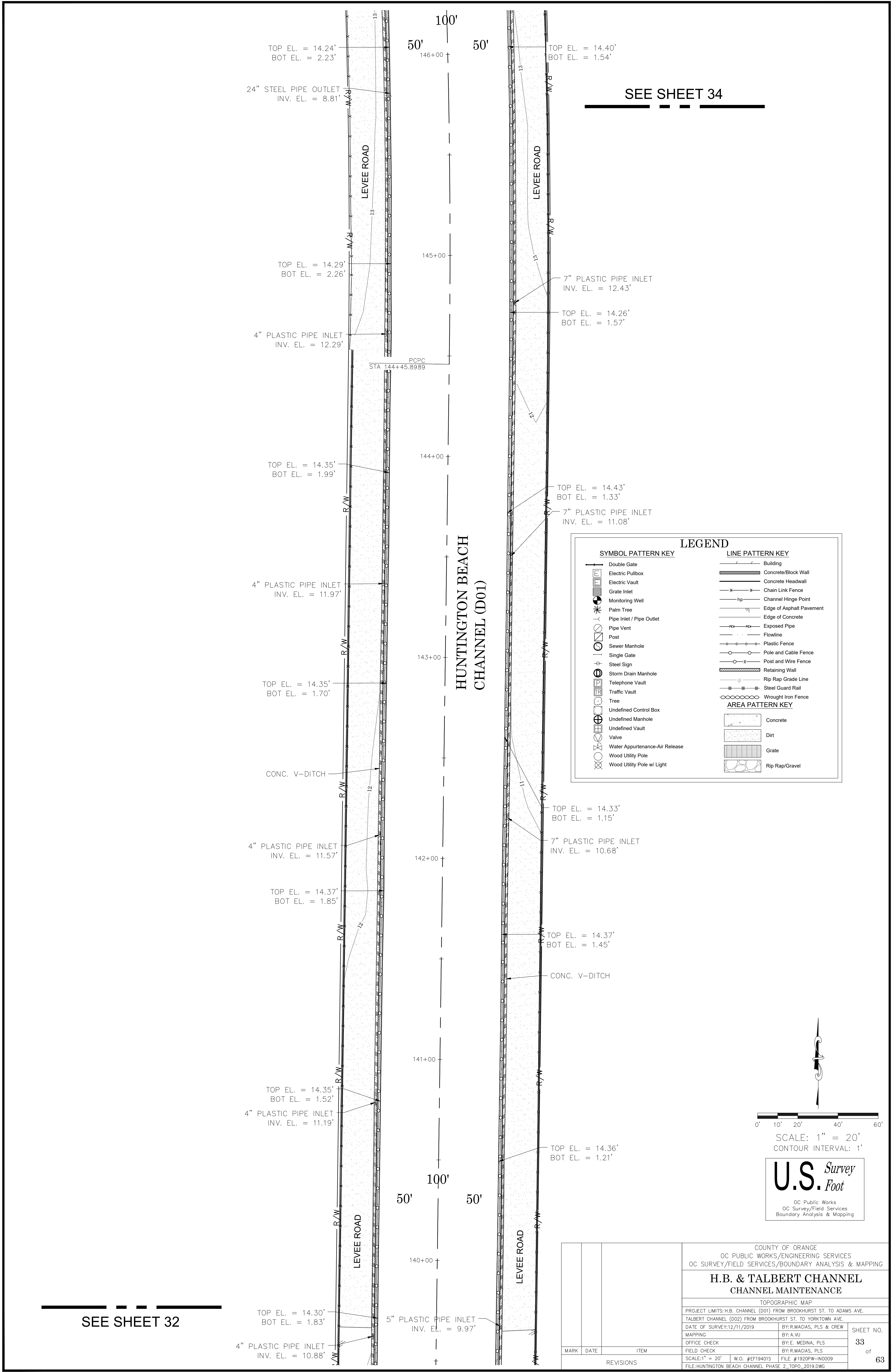


INDIANAPOLIS AVENUE



SEE SHEET 31

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE						
TOPOGRAPHIC MAP						
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.						
TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.						
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW			SHEET NO. 32 of 63	
MAPPING		BY: A. VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG			



SEE SHEET 34

LEGEND

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

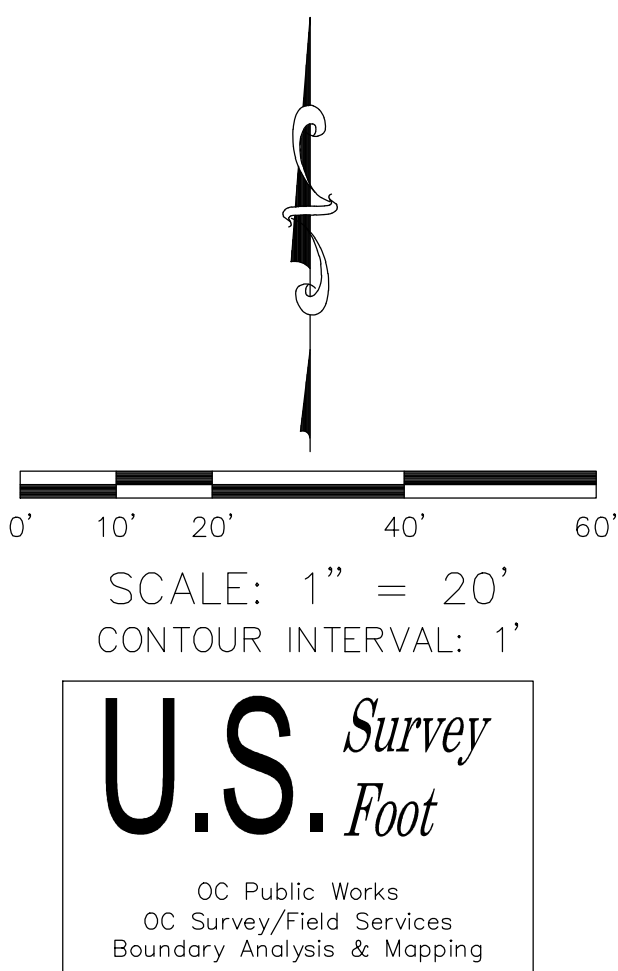
- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 32

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 33 of 63	
			MAPPING		BY: A.VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG					

SEE SHEET 35

SEABRIDGE LANE



SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SEE SHEET 33

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 34 of 63	
			MAPPING		BY: A. VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG					

UNDEFINED MONITORING WELL
WITH TRIANGULAR STEEL LID

TOP EL. = 14.55'
BOT EL. = 2.10'

7" PLASTIC PIPE INLET
INV. EL. = 13.30'

TOP EL. = 14.52'
BOT EL. = 2.29'

7" PLASTIC PIPE INLET
INV. EL. = 13.31'

TOP EL. = 14.47'
BOT EL. = 1.94'

CONC. V-DITCH

TOP EL. = 14.50'
BOT EL. = 1.19'

TOP EL. = 14.50'
BOT EL. = 1.80'

7" PLASTIC PIPE INLET
INV. EL. = 12.80'

TOP EL. = 14.50'
BOT EL. = 0.39'

TOP EL. = 14.55'
BOT EL. = 0.80'

HUNTINGTON BEACH
CHANNEL (D01)

TOP EL. = 14.52'
BOT EL. = 1.84'

7" PLASTIC PIPE INLET
INV. EL. = 13.31'

TOP EL. = 14.55'
BOT EL. = 1.72'

TOP EL. = 14.59'
BOT EL. = 1.30'

4" PLASTIC PIPE INLET
INV. EL. = 13.15'

CONC. V-DITCH

TOP EL. = 14.58'
BOT EL. = 2.77'

7" PLASTIC PIPE INLET
INV. EL. = 13.03'

TOP EL. = 14.58'
BOT EL. = 1.87'

TOP EL. = 14.60'
BOT EL. = 1.88'

CONC.
V-DITCH

SEE SHEET 36

LEGEND

SYMBOL PATTERN KEY

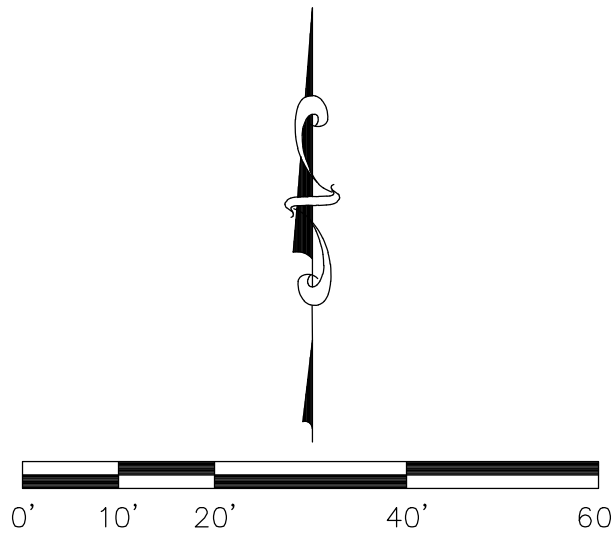
- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Pole and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey
Foot

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

SEE SHEET 34

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 35 of 63		
MAPPING		BY: A. VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
MARK	DATE	ITEM	SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009	
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2_TOPO_2019.DWG			

SYMBOL PATTERN KEY

Double Gate

Electric Pullbox

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Telephone Vault

Traffic Vault

Tree

Undefined Control Box

Undefined Manhole

Undefined Vault

Valve

Water Appurtenance-Air Release

Wood Utility Pole

Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

Building

Concrete/Block Wall

Concrete Headwall

Chain Link Fence

Channel Hinge Point

Edge of Asphalt Pavement

Edge of Concrete

Exposed Pipe

Flowline

Plastic Fence

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

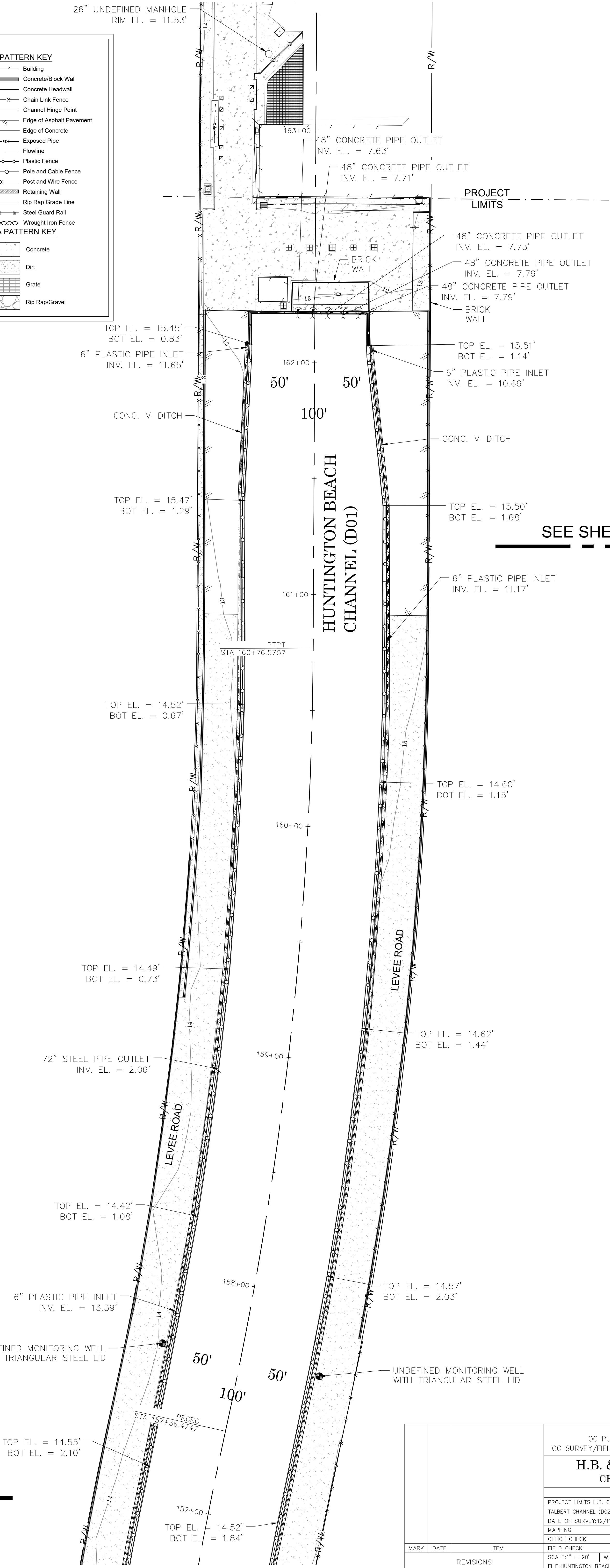
AREA PATTERN KEY

Concrete

Dirt

Grate

Rip Rap/Gravel



0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

SEE SHEET 35

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 36 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 2 TOPO_2019.DWG			

SYMBOL PATTERN KEY

Double Gate

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Traffic Vault

Tree

Valve

Undefined Control Box

Undefined Manhole

Undefined Vault

Wood Utility Pole

Wood Utility Pole w/ Light

LINE PATTERN KEY

Building

Brick Wall

Concrete Block Wall

Concrete Headwall

Chain Link Fence

Concrete Hinge Point

Edge of Asphalt Pavement

Exposed Pipe

Flowline

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

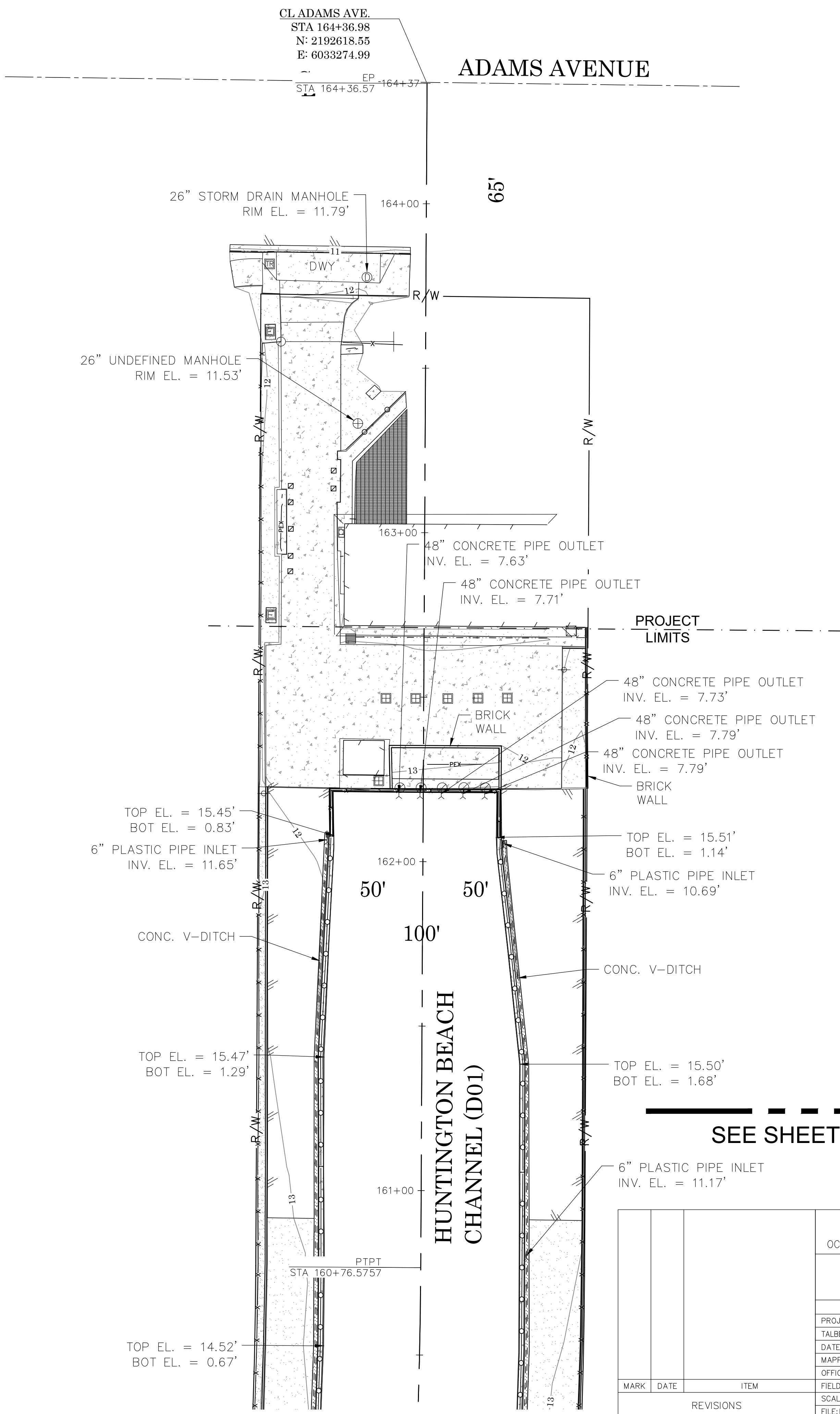
AREA PATTERN KEY

Concrete

Dirt

Grate

Rip Rap/Gravel



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 37 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	
			FILE: HUNTINGTON BEACH CHANNEL PHASE 2		TOPO_2019.DWG	
		REVISIONS				



0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (001) FROM BROOKHURST ST. TO ADAMS AVE.			
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW		SHEET NO. 38 of 63
			MAPPING	BY: A. VU		
			OFFICE CHECK	BY: E. MEDINA, PLS		
			FIELD CHECK	BY: R. MACIAS, PLS		
			SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920P-IN0009	
			FILE: HR CHANNEL PHASE 1 TOPO 2019.DWG			
			REVISIONS			
MARK	DATE	ITEM				

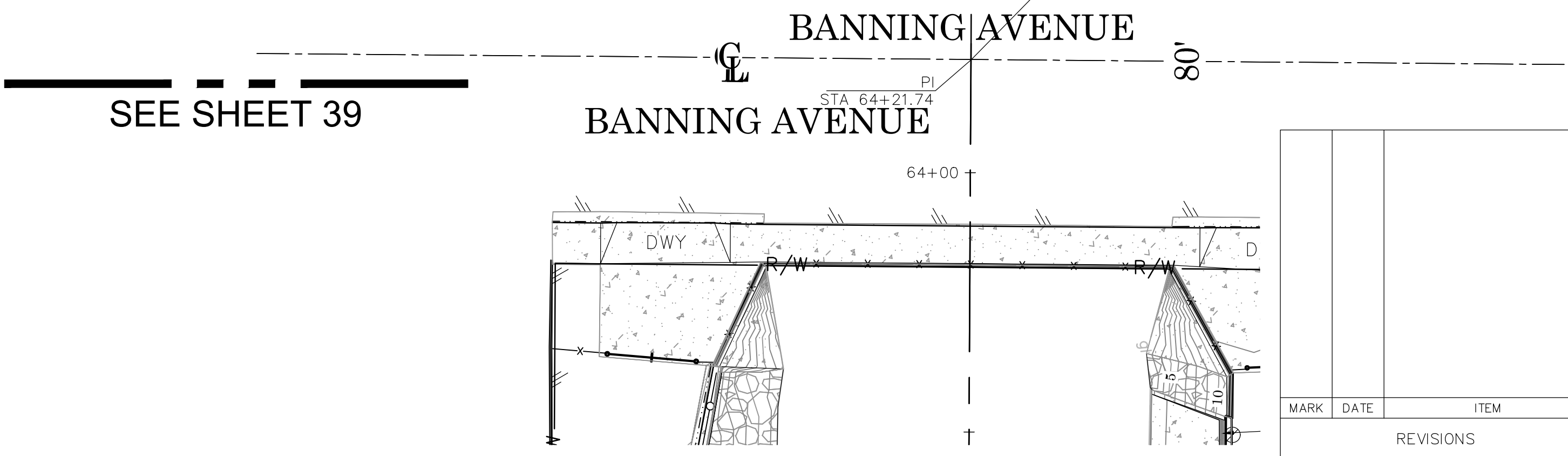
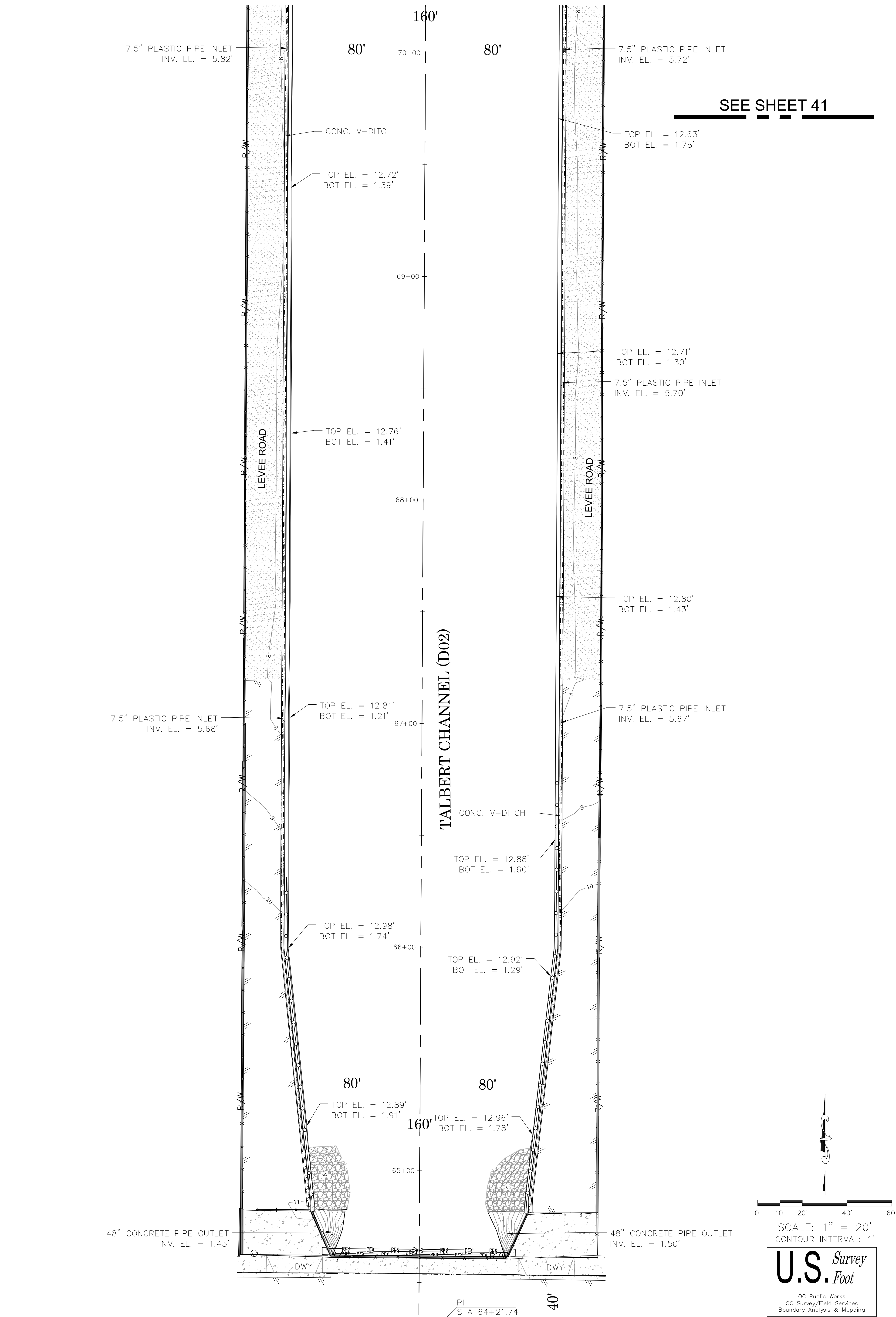
			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
			SCALE: 1" = 20'		FILE # 1920PW-IN0009	
			FILE: HR CHANNEL PHASE 1		TOPO 2019.DWG	
MARK	DATE	ITEM				
REVISIONS						

SHEET NO.

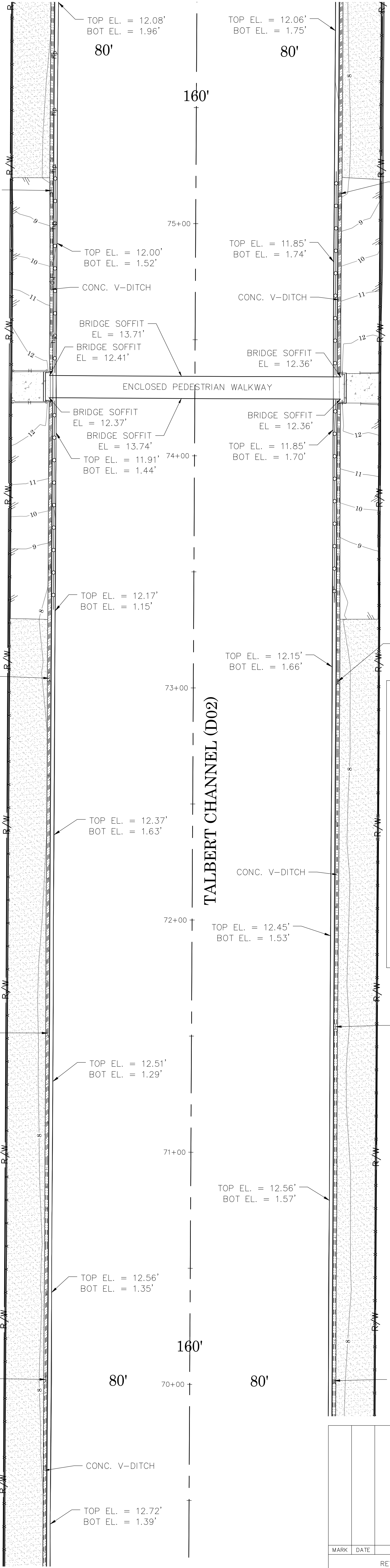
39

of

63



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.	
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
			DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW
			MAPPING	BY: A. VU
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: R. MACIAS, PLS
			SCALE: 1" = 20'	W.O. #EF19401S
			FILE #1920PW-IN0009	
			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG	
MARK	DATE	ITEM		
REVISIONS				



SEE SHEET 42

SEE SHEET 40

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

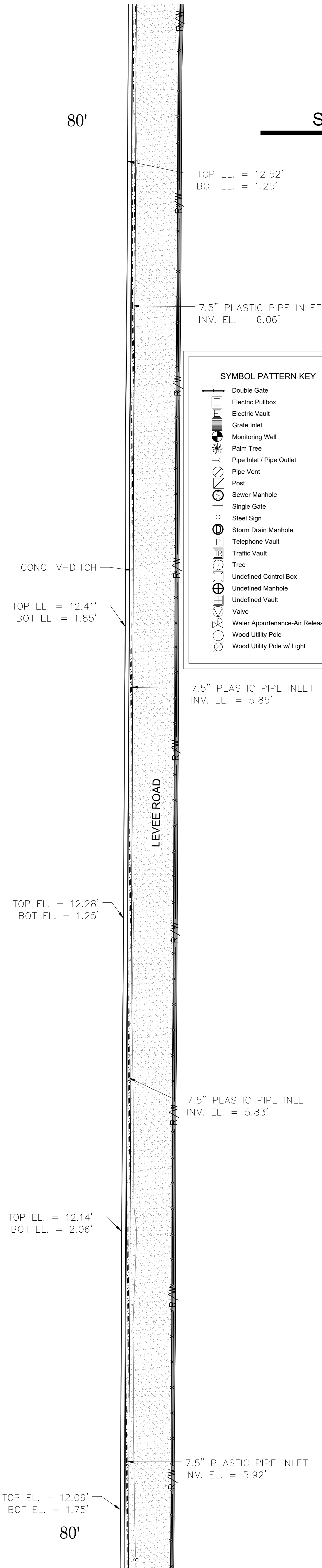
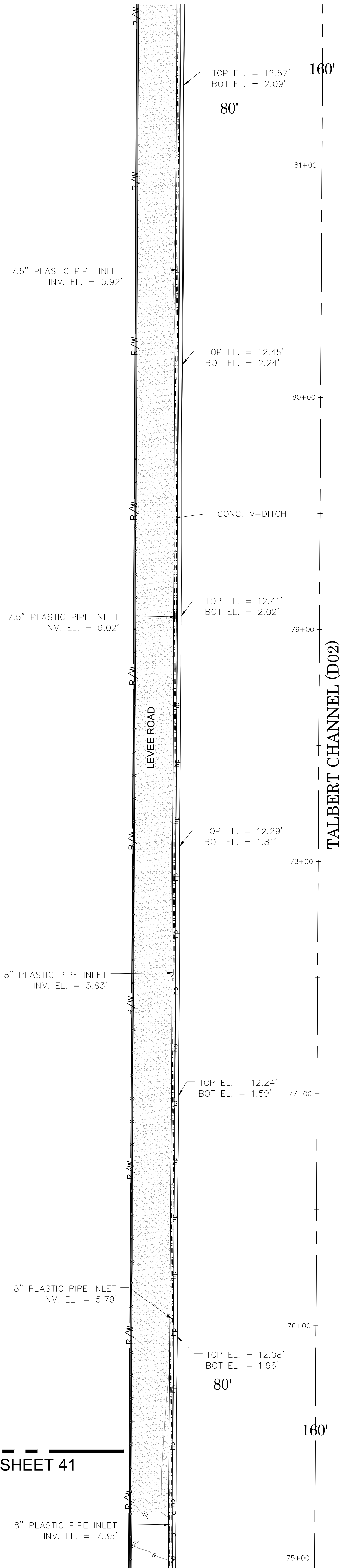
U.S. Survey Foot

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

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE	
		TOPOGRAPHIC MAP PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
		DATE OF SURVEY: 12/11/2019 MAPPING OFFICE CHECK FIELD CHECK SCALE: 1" = 20' FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG	BY: R.MACIAS, PLS & CREW BY: A.VU BY: E. MEDINA, PLS BY: R.MACIAS, PLS W.O. #EF19401S FILE #1920PW-IN0009
MARK	DATE	ITEM	SHEET NO. 41 of 63
REVISIONS			

LOW DENSITY
RESIDENTIAL

SEE SHEET 41



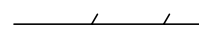
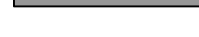
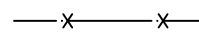
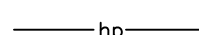
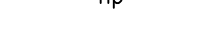
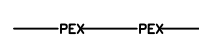
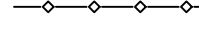
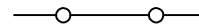
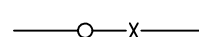
SEE SHEET 43

LEGEND

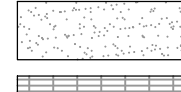
SYMBOL PATTERN KEY

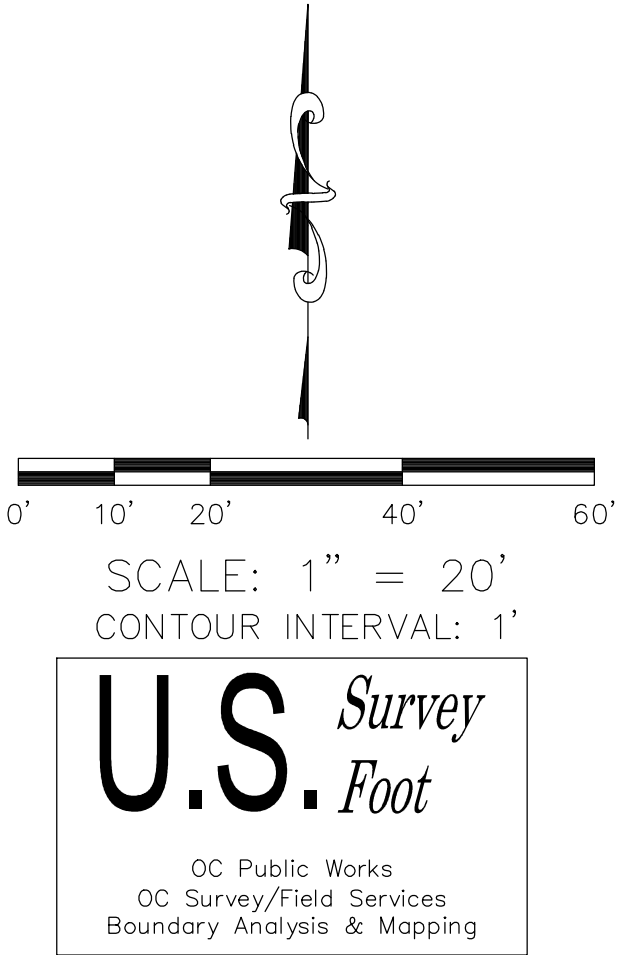
	Double Gate
	Electric Pullbox
	Electric Vault
	Grate Inlet
	Monitoring Well
	Palm Tree
	Pipe Inlet / Pipe Outlet
	Pipe Vent
	Post
	Sewer Manhole
	Single Gate
	Steel Sign
	Storm Drain Manhole
	Telephone Vault
	Traffic Vault
	Tree
	Undefined Control Box
	Undefined Manhole
	Undefined Vault
	Valve
	Water Appurtenance-Air Release
	Wood Utility Pole
	Wood Utility Pole w/ Light

LINE PATTERN KEY

	Building
	Concrete/Block Wall
	Concrete Headwall
	Chain Link Fence
	Channel Hinge Point
	Edge of Asphalt Pavement
	Edge of Concrete
	Exposed Pipe
	Flowline
	Plastic Fence
	Pole and Cable Fence
	Post and Wire Fence
	Retaining Wall
	Rip Rap Grade Line
	Steel Guard Rail
	Wrought Iron Fence

AREA PATTERN KEY

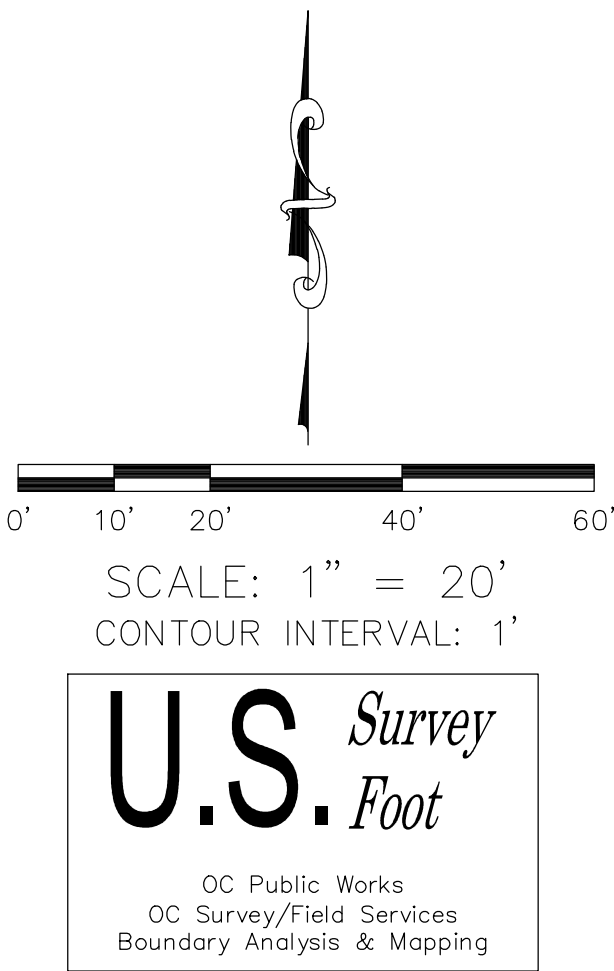
	Concrete
	Dirt
	Grate
	Rip Rap/Gravel



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.	
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 42 of 63	
MAPPING		BY: A. VU		
OFFICE CHECK		BY: E. MEDINA, PLS		
FIELD CHECK		BY: R. MACIAS, PLS		
SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009	
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG	

SEE SHEET 44

TALBERT CHANNEL (D02)



SEE SHEET 42

LEGEND

SYMBOL PATTERN KEY

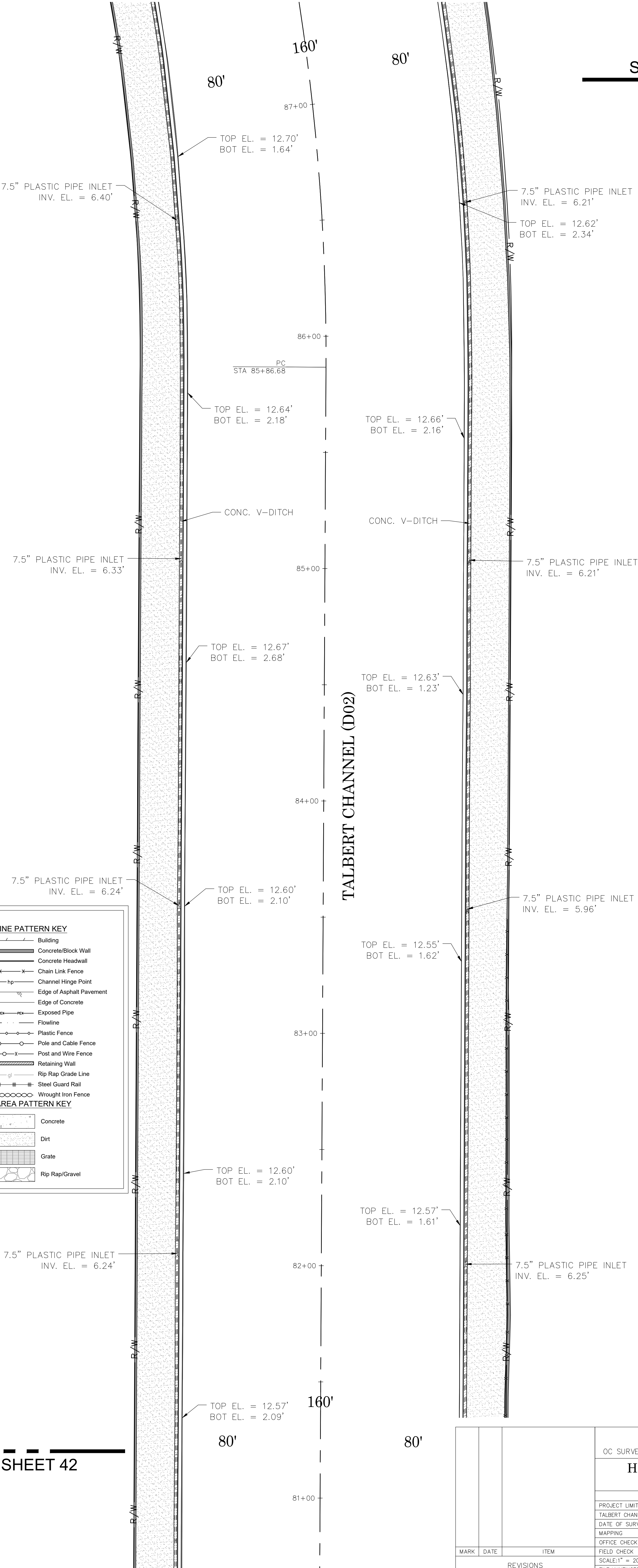
	Double Gate
	Electric Pullbox
	Electric Vault
	Grate Inlet
	Monitoring Well
	Palm Tree
	Pipe Inlet / Pipe Outlet
	Pipe Vent
	Post
	Sewer Manhole
	Single Gate
	Steel Sign
	Storm Drain Manhole
	Telephone Vault
	Traffic Vault
	Tree
	Undefined Control Box
	Undefined Manhole
	Undefined Vault
	Valve
	Water Appurtenance-Air Release
	Wood Utility Pole
	Wood Utility Pole w/ Light

LINE PATTERN KEY

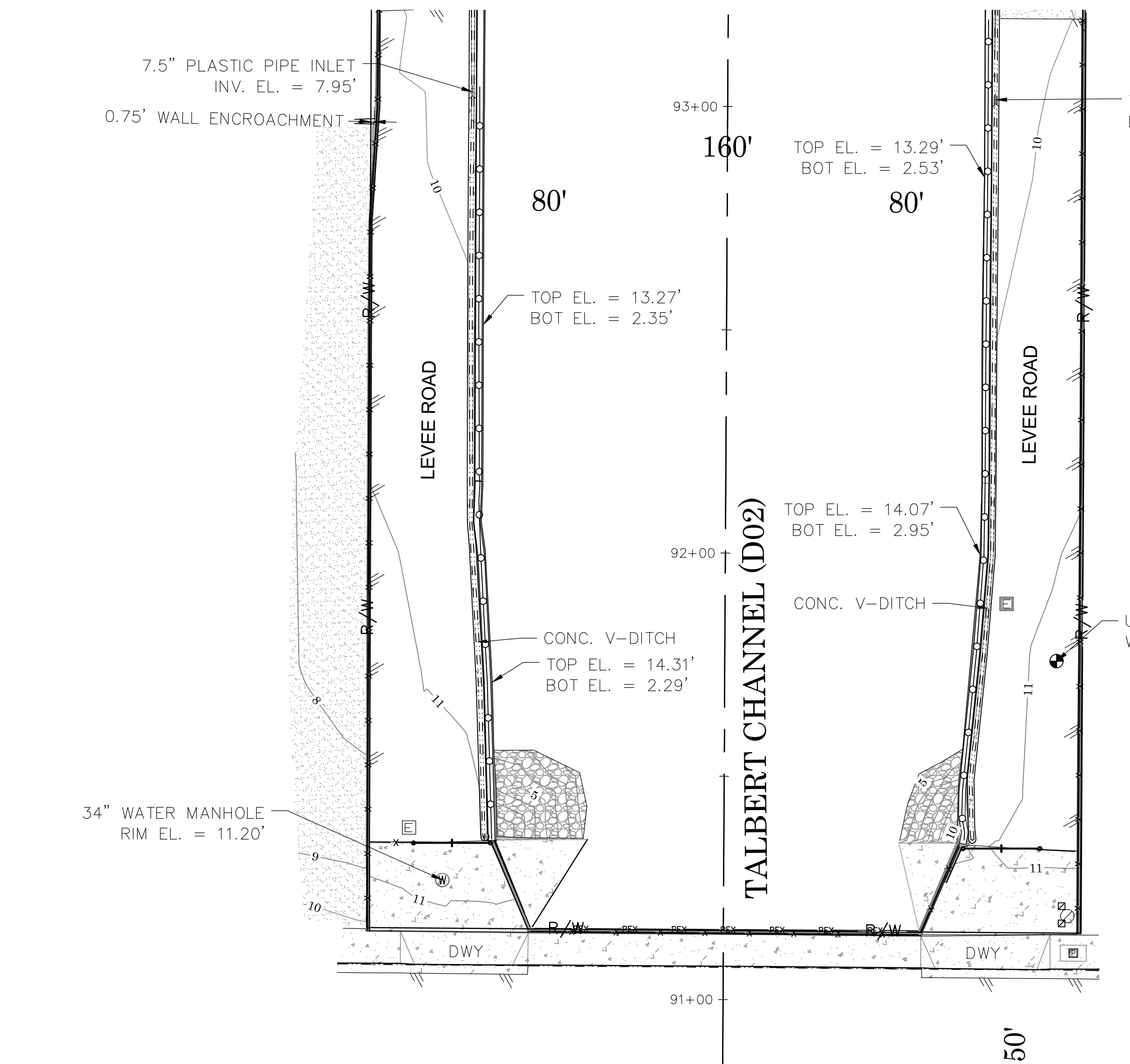
	Building
	Concrete/Block Wall
	Concrete Headwall
	Chain Link Fence
	Channel Hinge Point
	Edge of Asphalt Pavement
	Edge of Concrete
	Exposed Pipe
	Flowline
	Plastic Fence
	Pole and Cable Fence
	Post and Wire Fence
	Retaining Wall
	Rip Rap Grade Line
	Steel Guard Rail
	Wrought Iron Fence

AREA PATTERN KEY

	Concrete
	Dirt
	Grate
	Rip Rap/Gravel



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 43 of 63		
MAPPING		BY: A. VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
MARK	DATE	ITEM	SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009	
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG			



SEE SHEET 45

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

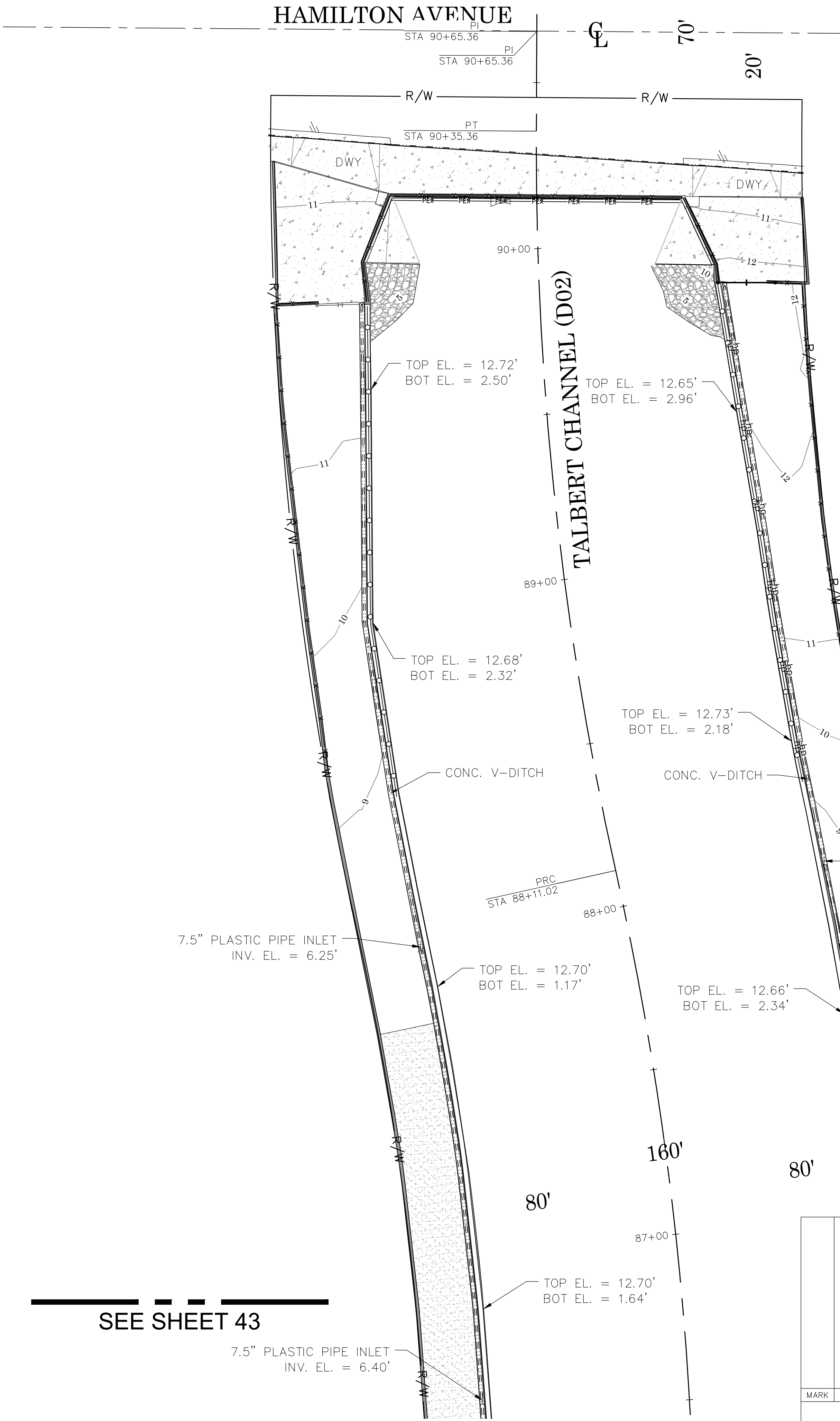
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 43



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 44 of 63		
MAPPING		BY: A.VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
MARK	DATE	ITEM	SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009	
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG			

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

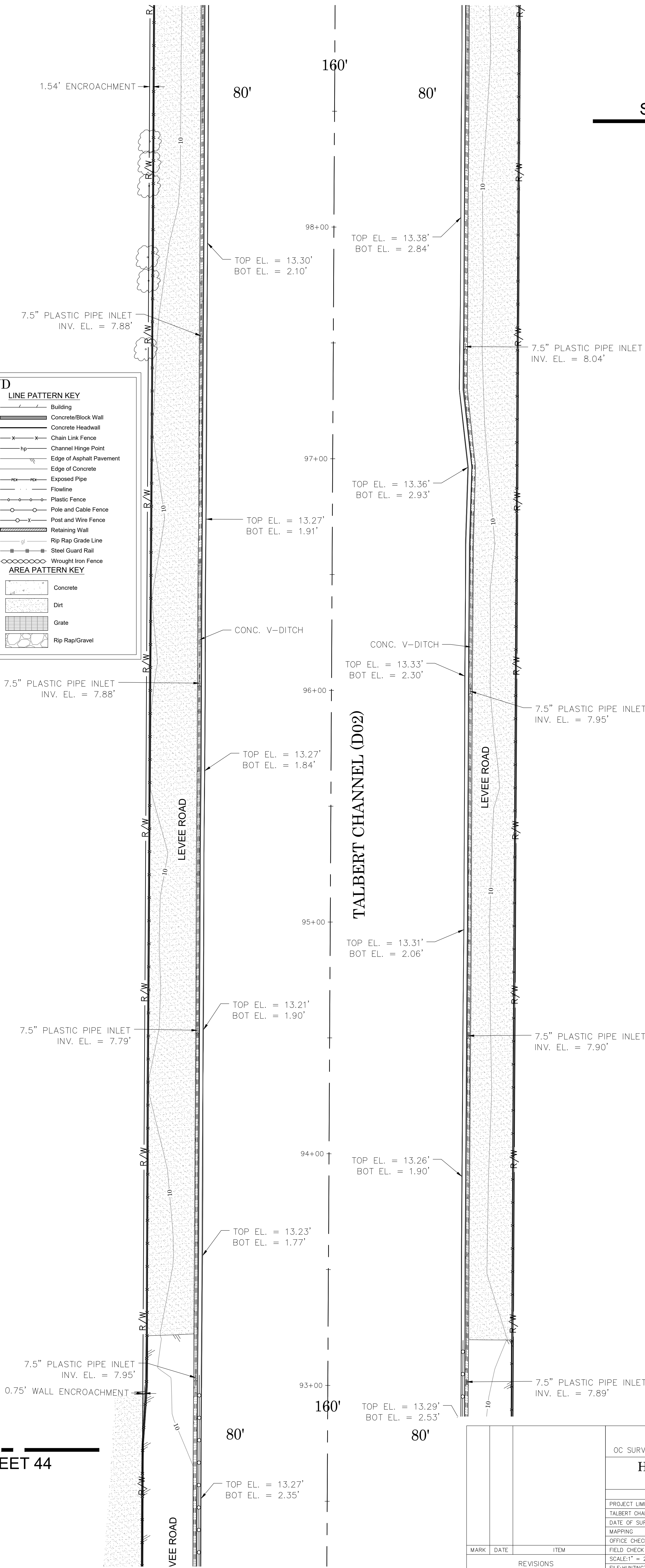
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 46

SEE SHEET 44

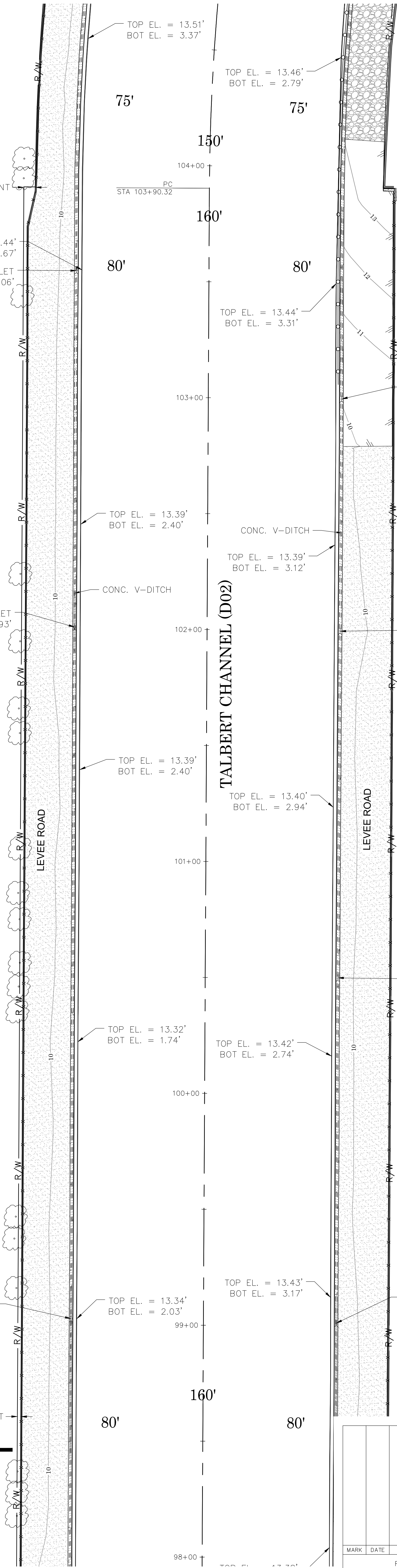


SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 45 of 63	
			MAPPING		BY: A. VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG					



SEE SHEET 47

SEE SHEET 45

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.					
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 46 of 63	
			MAPPING		BY: A. VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG					

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

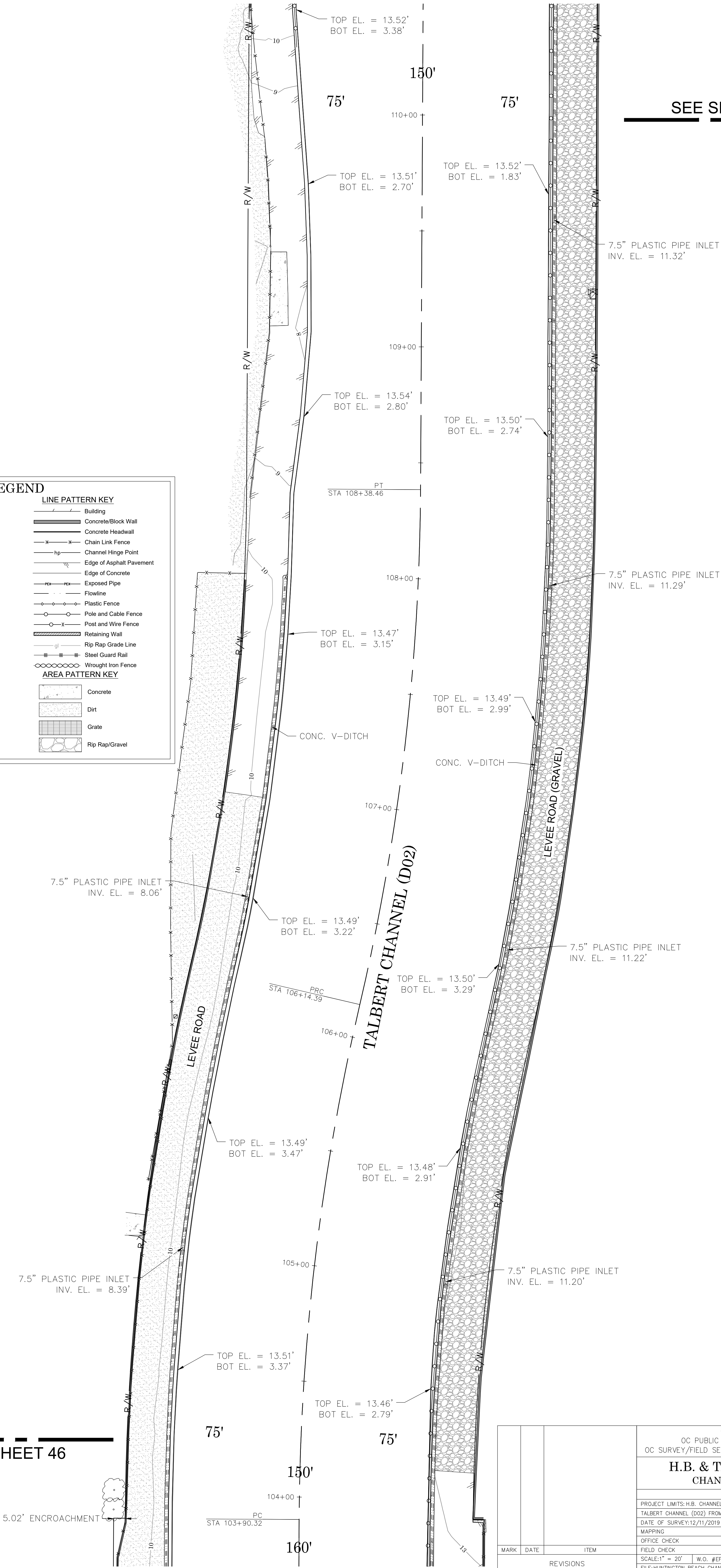
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 48

SEE SHEET 46



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 47 of 63	
			MAPPING		BY: A. VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG					
REVISIONS								

SYMBOL PATTERN KEY

Double Gate

Electric Pullbox

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Telephone Vault

Traffic Vault

Tree

Undefined Control Box

Undefined Manhole

Undefined Vault

Valve

Water Appurtenance-Air Release

Wood Utility Pole

Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

Building

Concrete/Block Wall

Concrete Headwall

Chain Link Fence

Channel Hinge Point

Edge of Asphalt Pavement

Edge of Concrete

Exposed Pipe

Flowline

Plastic Fence

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

AREA PATTERN KEY

Concrete

Dirt

Grate

Rip Rap/Gravel

28" STORM DRAIN MANHOLE
RIM EL. = 12.57'

UNDEFINED MONITORING WELL
WITH 14" LID

SEE SHEET 49

7.5" PLASTIC PIPE INLET
INV. EL. = 11.33'

TOP EL. = 13.61'
BOT EL. = 3.30'

CONC. V-DITCH

7.5" PLASTIC PIPE INLET
INV. EL. = 11.33'

TOP EL. = 13.58'
BOT EL. = 3.23'

LEVEE ROAD (GRAVEL)

7.5" PLASTIC PIPE INLET
INV. EL. = 11.32'

TOP EL. = 13.56'
BOT EL. = 3.15'

TOP EL. = 13.52'
BOT EL. = 3.38'

TOP EL. = 13.51'
BOT EL. = 2.70'

TALBERT CHANNEL (D02)

TOP EL. = 13.55'
BOT EL. = 2.18'

TOP EL. = 13.56'
BOT EL. = 1.73'

TOP EL. = 13.52'
BOT EL. = 1.83'

TOP EL. = 13.67'
BOT EL. = 3.17'

TOP EL. = 13.61'
BOT EL. = 3.68'

CONC. V-DITCH

TOP EL. = 13.61'
BOT EL. = 3.42'

7.5" PLASTIC PIPE INLET
INV. EL. = 11.78'

7.5" PLASTIC PIPE INLET
INV. EL. = 11.30'

7.5" PLASTIC PIPE INLET
INV. EL. = 11.30'

0'10'20'40'60'

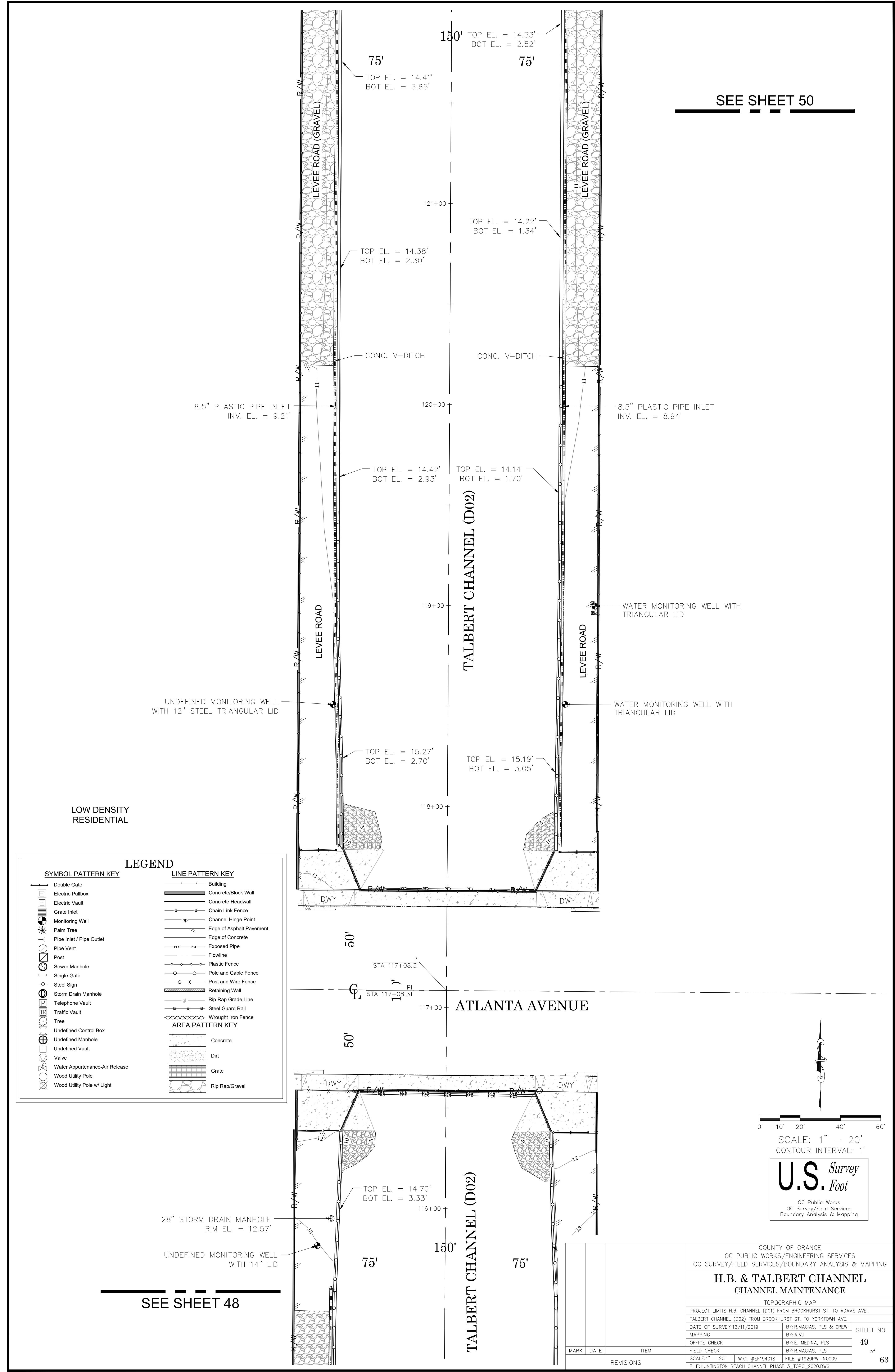
SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			SHEET NO.	
H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			48	
TOPOGRAPHIC MAP			of	
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			63	
TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW			
MAPPING	BY: A. VU			
OFFICE CHECK	BY: E. MEDINA, PLS			
FIELD CHECK	BY: R. MACIAS, PLS			
SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009		
FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG				
MARK	DATE	ITEM		
REVISIONS				



SYMBOL PATTERN KEY

Double Gate

Electric Pullbox

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Telephone Vault

Traffic Vault

Tree

Undefined Control Box

Undefined Manhole

Undefined Vault

Valve

Water Appurtenance-Air Release

Wood Utility Pole

Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

Building

Concrete/Block Wall

Concrete Headwall

Chain Link Fence

Channel Hinge Point

Edge of Asphalt Pavement

Edge of Concrete

Exposed Pipe

Flowline

Plastic Fence

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

AREA PATTERN KEY

Concrete

Dirt

Grate

Rip Rap/Gravel

The plan view shows Talbert Channel (D02) running vertically. On either side are Levee Roads (Gravel). Key features include:

- Levee Road (Gravel) Labels:** Located on both the left and right sides of the channel.
- 8.5" Plastic Pipe Inlets:** Located on both sides with the following invert elevations:
 - Left side: 9.07', 9.01', 9.05', 8.99'
 - Right side: 9.15', 9.11', 9.10'
- CONC. V-DITCH:** Located on both sides of the channel.
- Elevations:** Top and bottom elevations are provided for several points along the channel.
- Stationing:** The channel is marked with stationing from 121+00 to 127+00.
- Dimensions:** 75' and 150' dimensions are indicated across the channel and road sections.

SEE SHEET 51

SEE SHEET 49

A north arrow pointing upwards and a graphic scale bar showing 0', 10', 20', 40', and 60'.

SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey

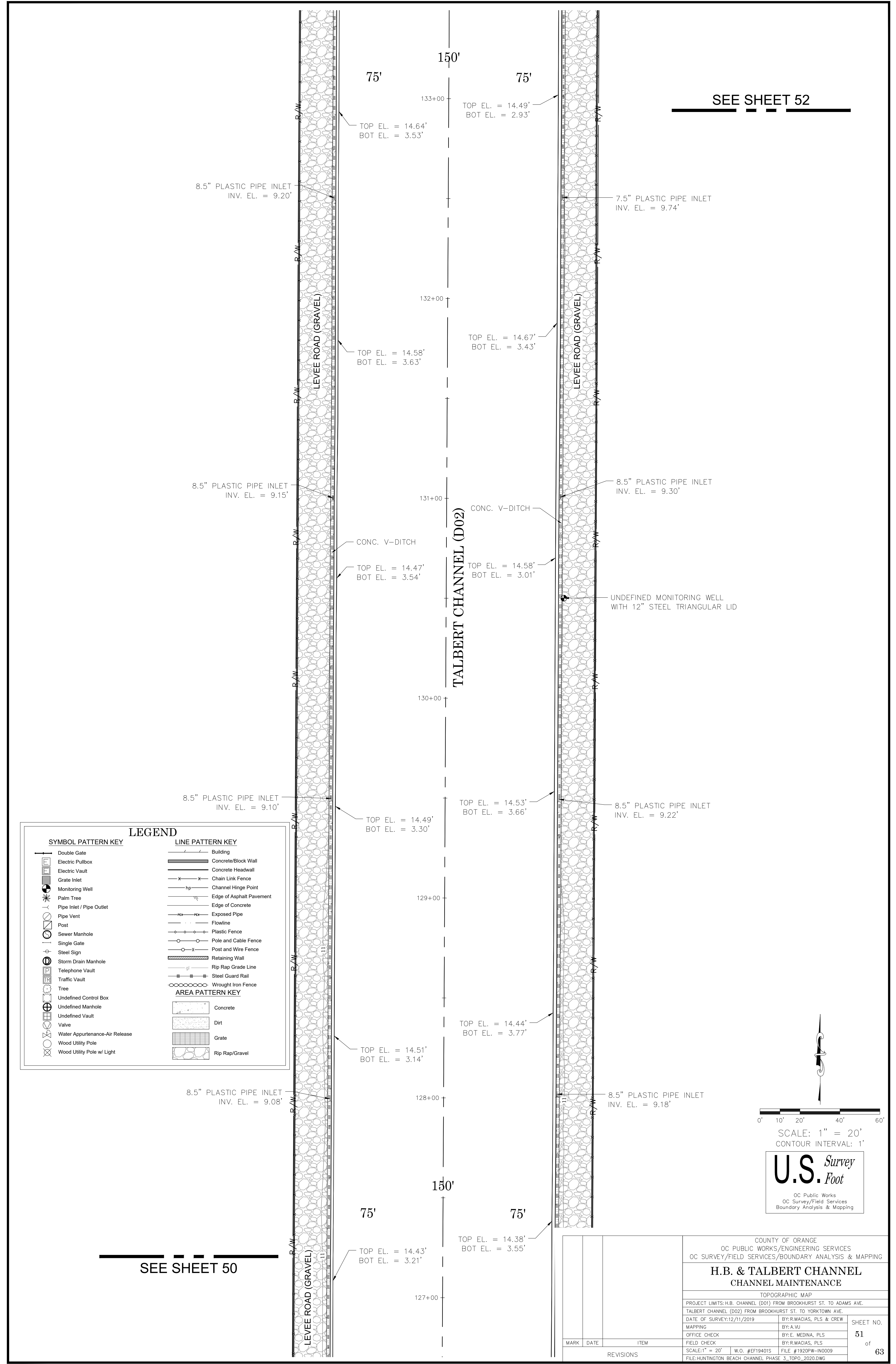
Foot

COUNTY OF ORANGE

OC PUBLIC WORKS/ENGINEERING SERVICES

OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.		
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.		
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 50 of 63	
MAPPING		BY: A. VU			
OFFICE CHECK		BY: E. MEDINA, PLS			
FIELD CHECK		BY: R. MACIAS, PLS			
SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009	
REVISIONS					
FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG					



UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

8.5" PLASTIC PIPE INLET
INV. EL. = 9.33'

8.5" PLASTIC PIPE INLET
INV. EL. = 9.47'

8.5" PLASTIC PIPE INLET
INV. EL. = 9.22'

8.5" PLASTIC PIPE INLET
INV. EL. = 9.26'

8.5" PLASTIC PIPE INLET
INV. EL. = 9.20'

75'

TOP EL. = 14.70'
BOT EL. = 3.50'

TOP EL. = 14.75'
BOT EL. = 3.51'

TOP EL. = 14.68'
BOT EL. = 3.64'

TOP EL. = 14.69'
BOT EL. = 3.57'

TOP EL. = 14.70'
BOT EL. = 2.87'

75'

TOP EL. = 14.64'
BOT EL. = 3.53'

75'

TOP EL. = 14.74'
BOT EL. = 3.47'

TOP EL. = 14.68'
BOT EL. = 3.40'

CONC. V-DITCH
TOP EL. = 14.67'
BOT EL. = 3.32'

TOP EL. = 14.63'
BOT EL. = 3.62'

TOP EL. = 14.49'
BOT EL. = 2.93'

75'

TOP EL. = 14.49'
BOT EL. = 2.93'

SEE SHEET 53

LEGEND

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

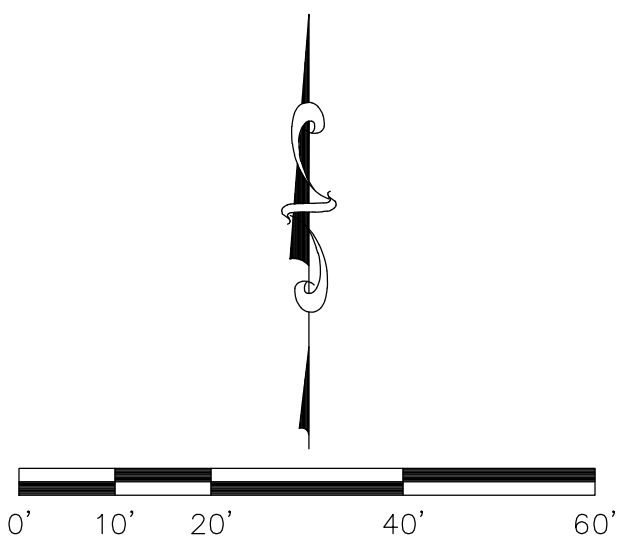
AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

TALBERT CHANNEL (D02)

LEVEE ROAD (GRAVEL)

LEVEE ROAD (GRAVEL)



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

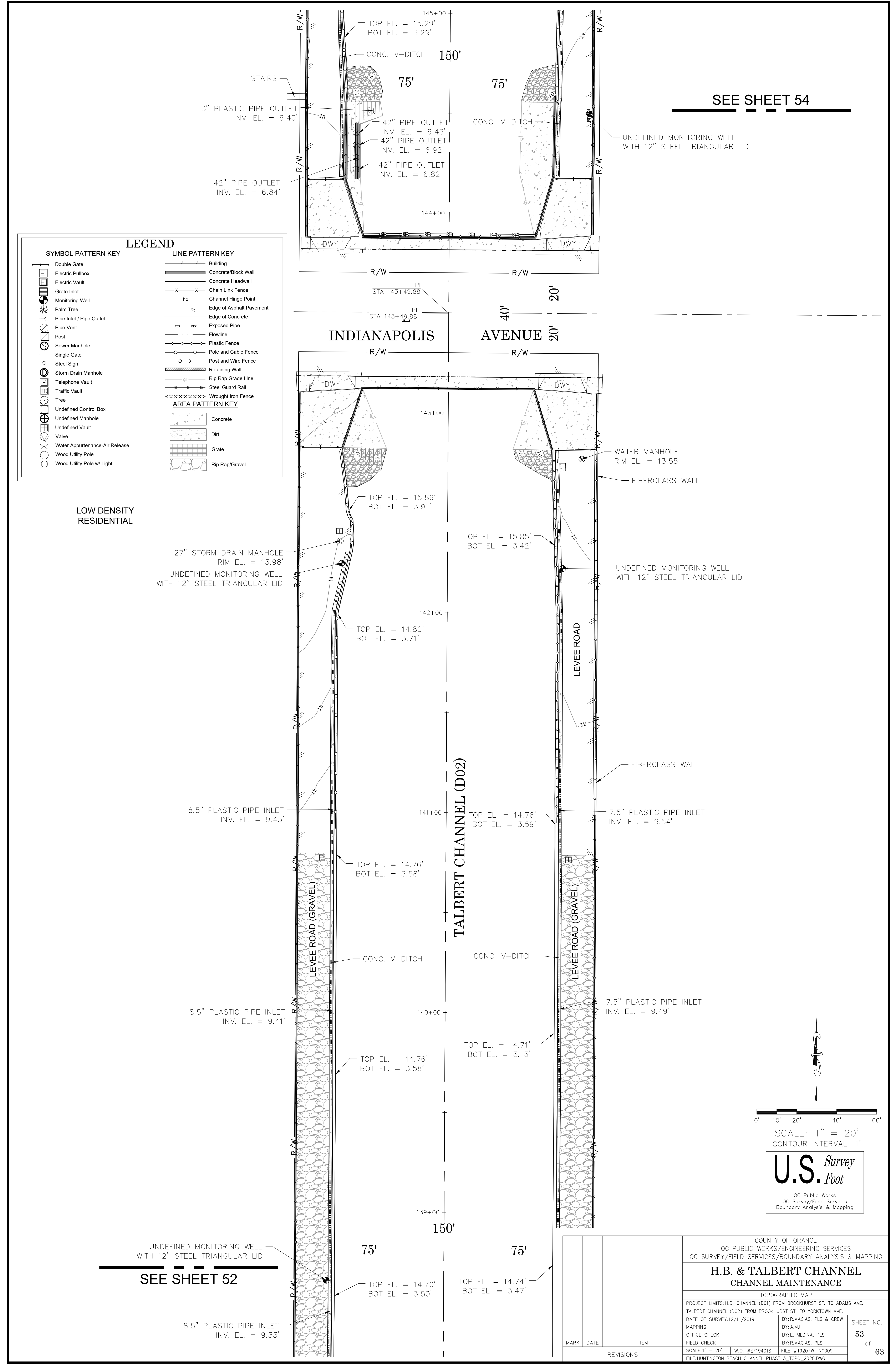
U.S. Survey Foot

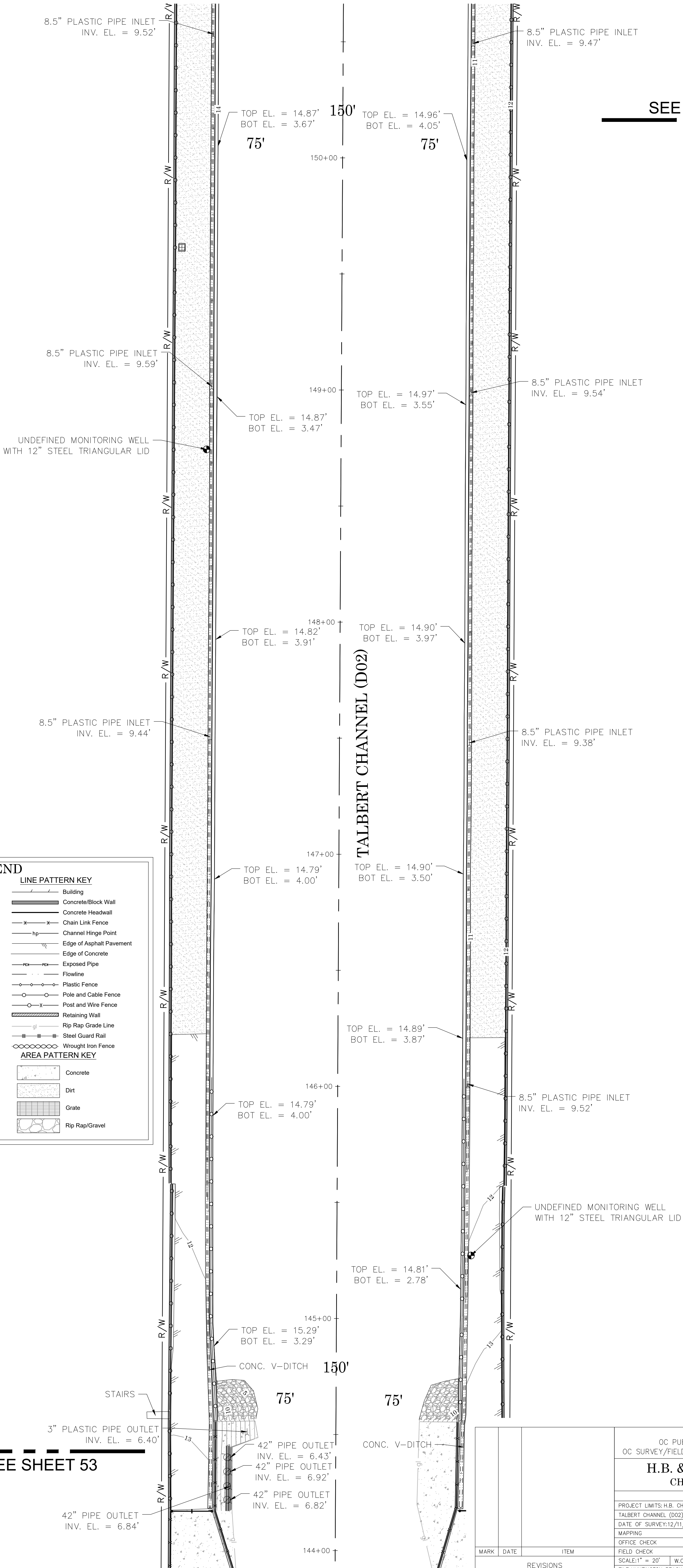
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

SEE SHEET 51

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE	
		TOPOGRAPHIC MAP	
		PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.	
		TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
		DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW
		MAPPING	BY: A. VU
		OFFICE CHECK	BY: E. MEDINA, PLS
		FIELD CHECK	BY: R. MACIAS, PLS
		SCALE: 1" = 20'	W.O. #EF19401S
		FILE #1920PW-IN0009	
		FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG	
MARK	DATE	ITEM	
REVISIONS			

SHEET NO.
52
of
63





LEGEND

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 54 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG			

SEE SHEET 56

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

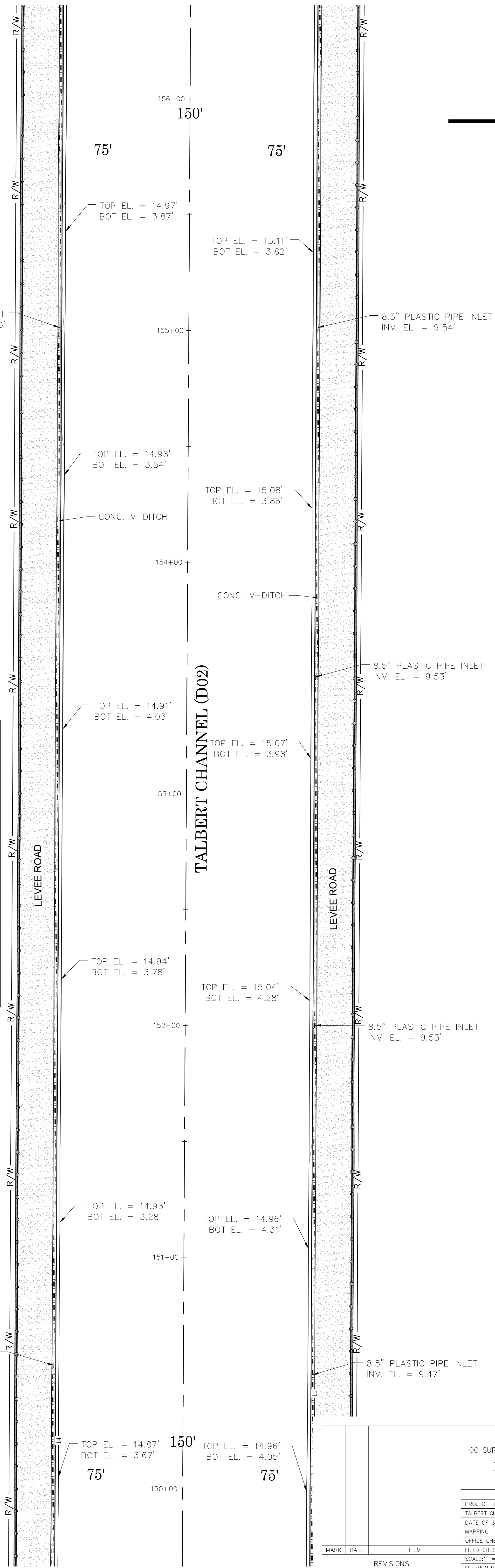
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 54

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 55 of 63
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG				

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

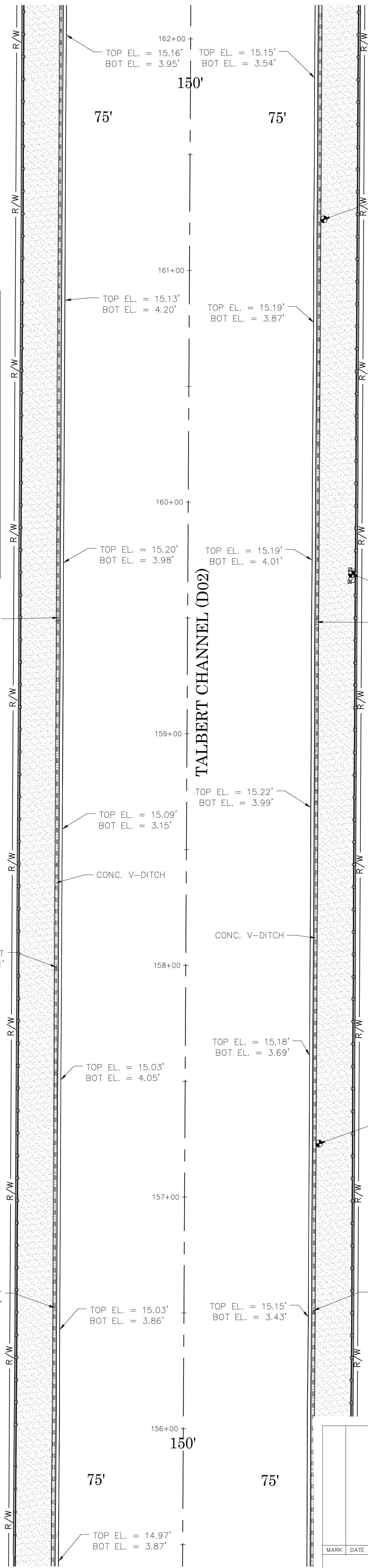
8.5" PLASTIC PIPE INLET
INV. EL. = 9.66'

8.5" PLASTIC PIPE INLET
INV. EL. = 9.71'

8.5" PLASTIC PIPE INLET
INV. EL. = 9.63'

LOW DENSITY
RESIDENTIAL

SEE SHEET 55



SEE SHEET 57

UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

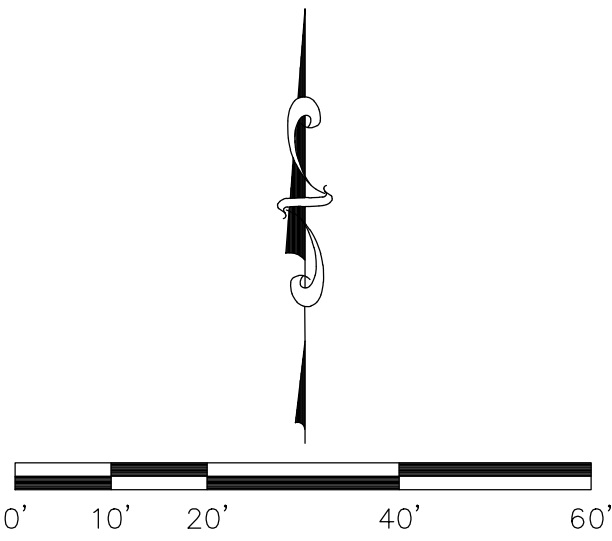
UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

8.5" PLASTIC PIPE INLET
INV. EL. = 9.65'

LOW DENSITY
RESIDENTIAL

UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

8.5" PLASTIC PIPE INLET
INV. EL. = 9.62'



U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.					
			TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.					
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 56 of 63	
			MAPPING		BY: A. VU			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: R. MACIAS, PLS			
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009		
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG					

SYMBOL PATTERN KEY

Double Gate

Electric Pullbox

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Telephone Vault

Traffic Vault

Tree

Undefined Control Box

Undefined Manhole

Undefined Vault

Valve

Water Appurtenance-Air Release

Wood Utility Pole

Wood Utility Pole w/ Light

LINE PATTERN KEY

Building

Concrete/Block Wall

Concrete Headwall

Chain Link Fence

Channel Hinge Point

Edge of Asphalt Pavement

Edge of Concrete

Exposed Pipe

Flowline

Plastic Fence

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

AREA PATTERN KEY

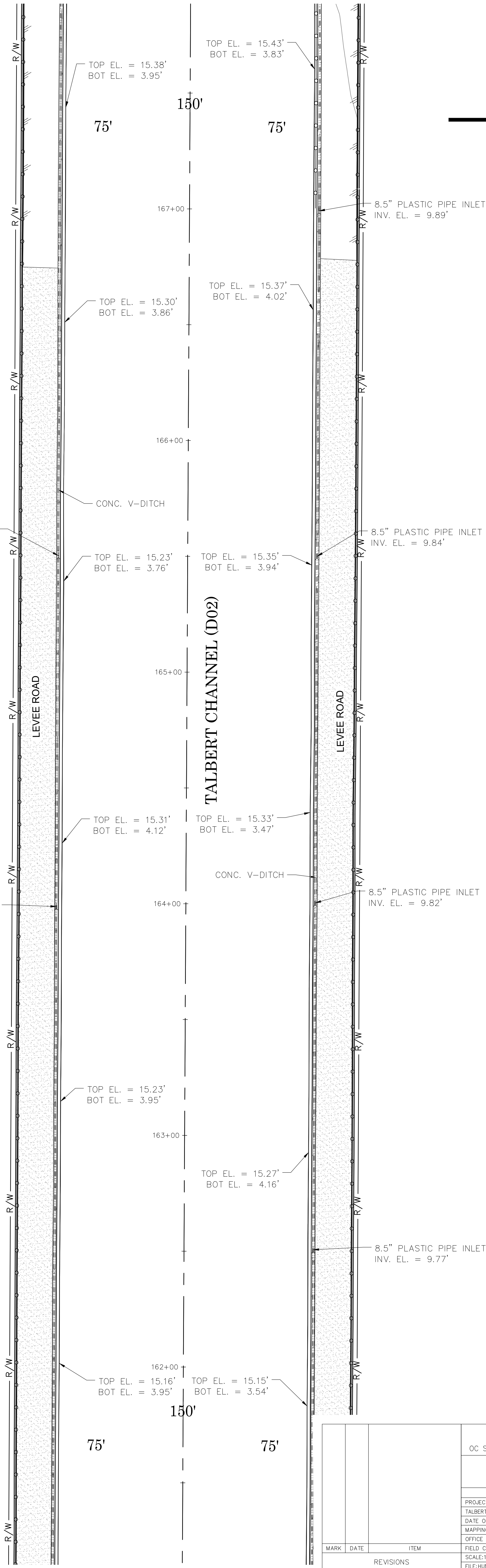
Concrete

Dirt

Grate

Rip Rap/Gravel

LEGEND



SEE SHEET 58

SEE SHEET 56

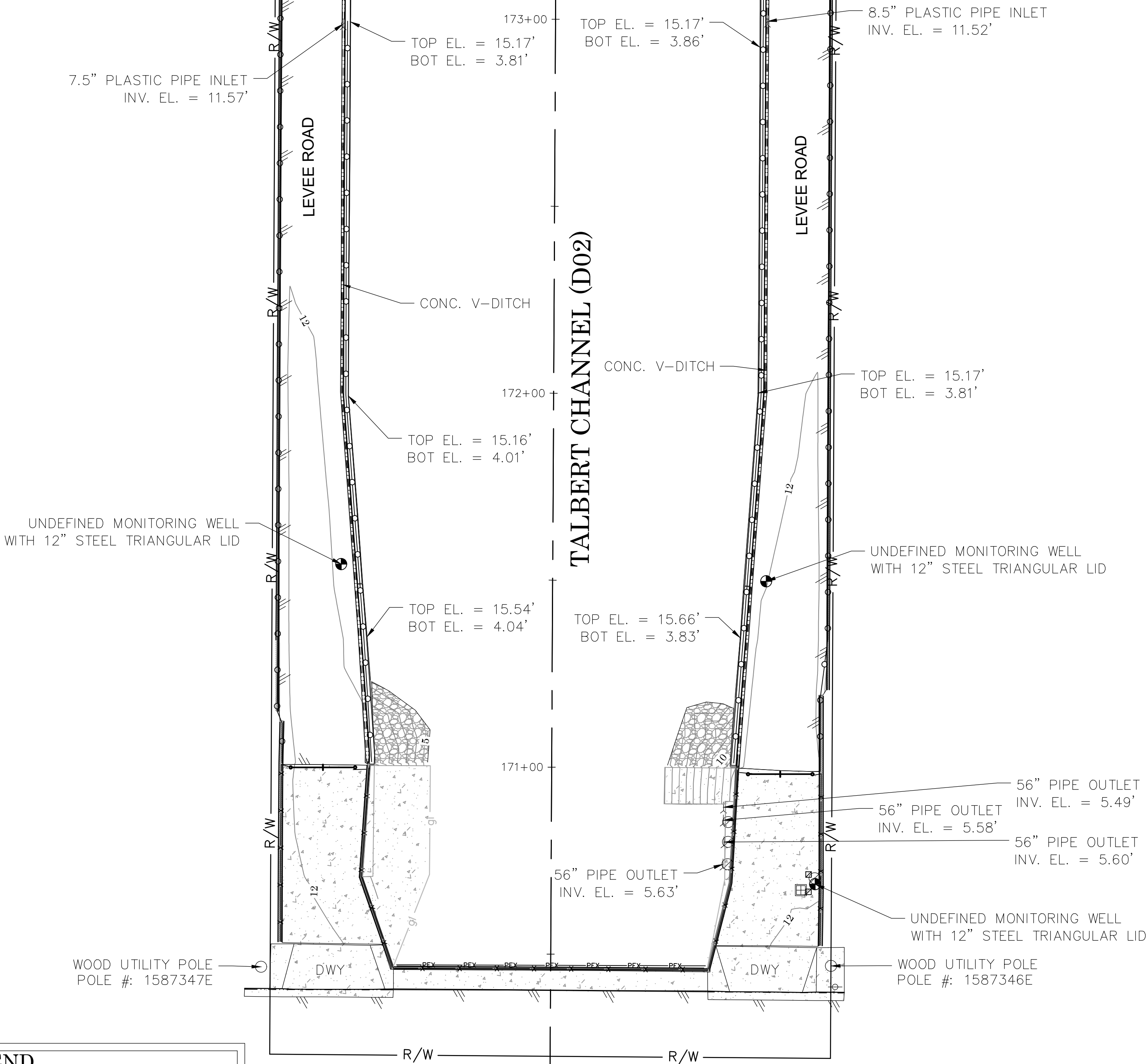
SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.				
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 57 of 63
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S		FILE #1920PW-IN0009
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG				

SEE SHEET 59



LEGEND

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

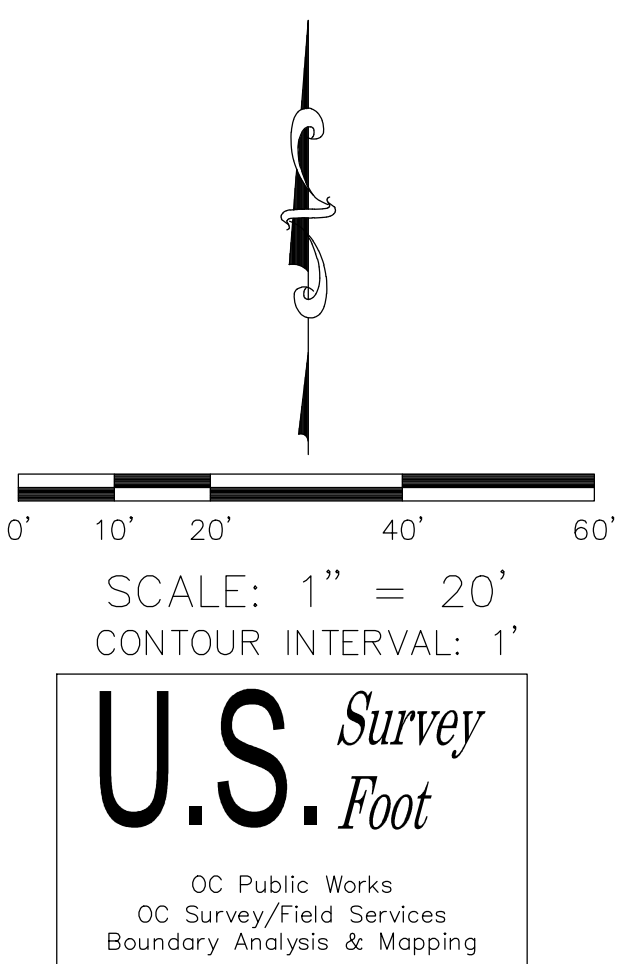
- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

UNDEFINED MONITORING WELL
WITH STEEL TRIANGULAR LID

SEE SHEET 57



COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
TOPOGRAPHIC MAP			
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.			
TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW	SHEET NO. 58 of 63	
MAPPING	BY: A. VU		
OFFICE CHECK	BY: E. MEDINA, PLS		
FIELD CHECK	BY: R. MACIAS, PLS		
SCALE: 1" = 20'	W.O. #EF19401S		
FILE #1920PW-IN0009		FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG	
MARK	DATE	ITEM	REVISIONS

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

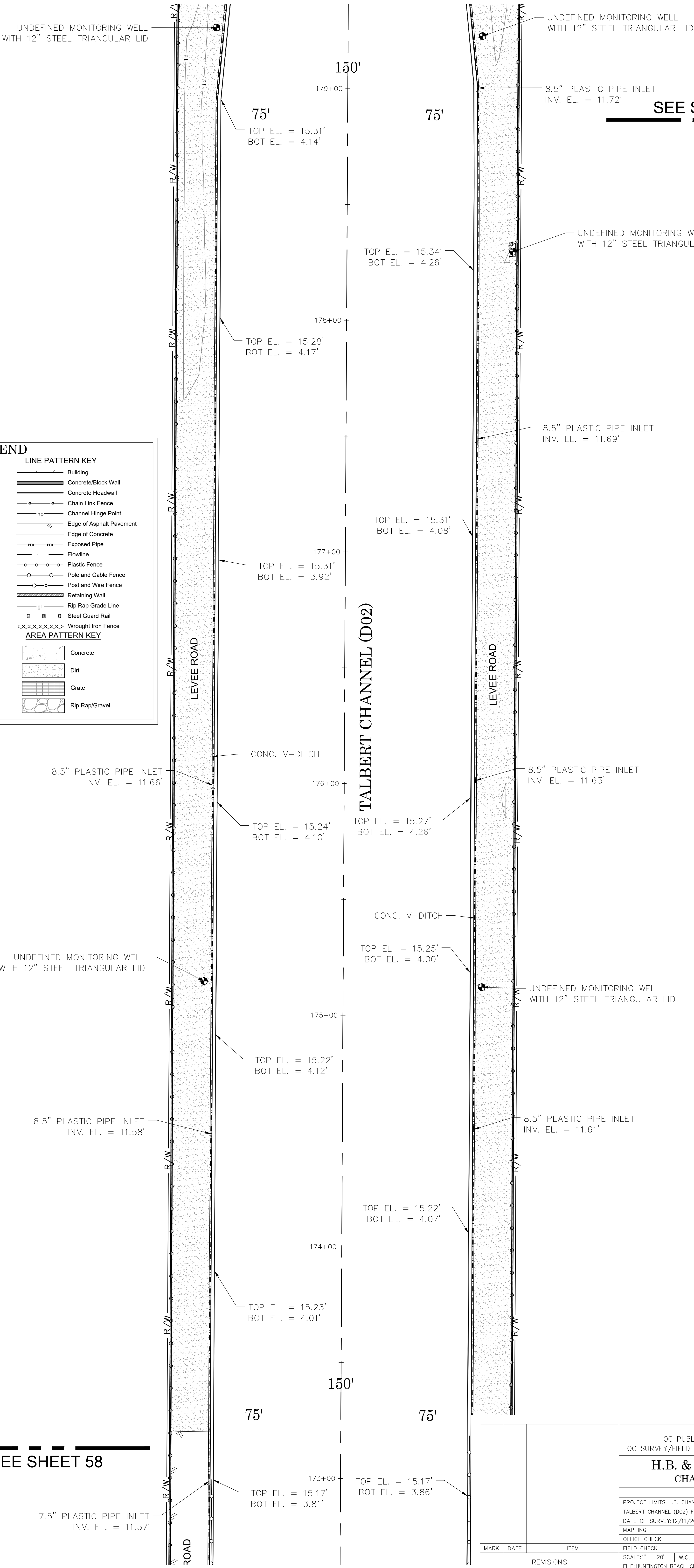
LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SEE SHEET 60

SEE SHEET 58

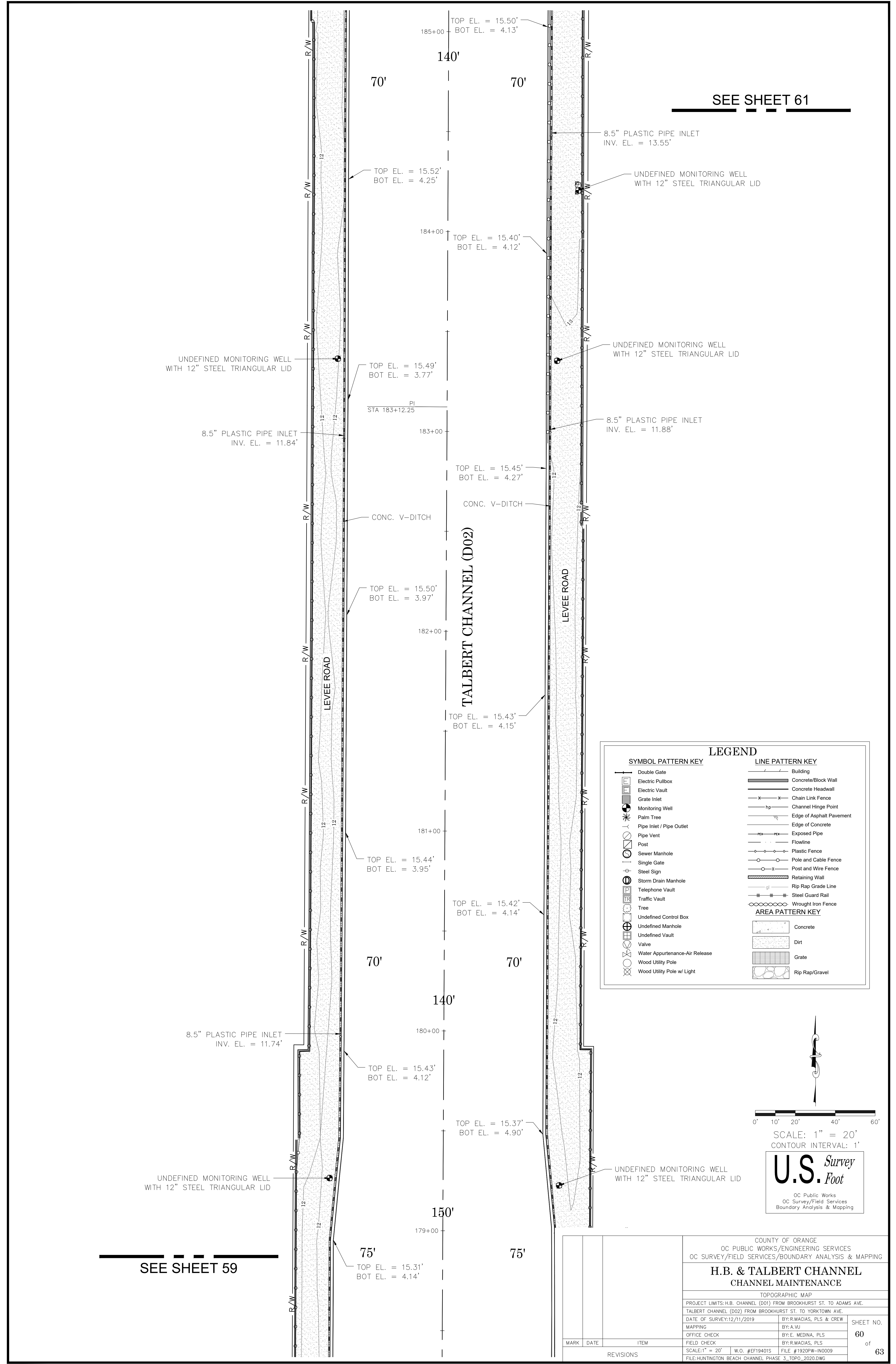


SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey
Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
			DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW	SHEET NO. 59 of 63
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF19401S	FILE #1920PW-IN0009
		REVISIONS	FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG			



SEE SHEET 61

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LEGEND

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

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

SEE SHEET 59

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE	
		TOPOGRAPHIC MAP	
		PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.	
		TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.	
		DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW
		MAPPING	BY: A. VU
		OFFICE CHECK	BY: E. MEDINA, PLS
		FIELD CHECK	BY: R. MACIAS, PLS
		SCALE: 1" = 20'	W.O. #EF19401S
		FILE #1920PW-IN0009	
		FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG	
MARK	DATE	ITEM	
REVISIONS			

SEE SHEET 62

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel

8.5" PLASTIC PIPE INLET
INV. EL. = 12.09'

UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

8.5" PLASTIC PIPE INLET
INV. EL. = 12.00'

SEE SHEET 60

TALBERT CHANNEL (D02)

LEVEE ROAD

MARK	DATE	ITEM
REVISIONS		

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

**H.B. & TALBERT CHANNEL
CHANNEL MAINTENANCE**

TOPOGRAPHIC MAP
PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE.
TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.

DATE OF SURVEY: 12/11/2019	BY: R. MACIAS, PLS & CREW	SHEET NO. 61 of 63
MAPPING	BY: A. VU	
OFFICE CHECK	BY: E. MEDINA, PLS	
FIELD CHECK	BY: R. MACIAS, PLS	
SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009
FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG		

YORKTOWN AVENUE

CL YORKTOWN AVENUE
STA 196+33.04
N: 2195185.88
E: 6039340.85

SEE SHEET 63

WOOD UTILITY POLE
POLE #: 1671272E

WOOD UTILITY POLE
POLE #: 1471898E

TOP EL. = 16.91'
BOT EL. = 4.37'

UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

UNDEFINED MONITORING WELL
WITH 12" STEEL TRIANGULAR LID

TOP EL. = 16.86'
BOT EL. = 4.35'

8.5" PLASTIC PIPE INLET
INV. EL. = 12.53'

TALBERT CHANNEL (D02)

SYMBOL PATTERN KEY

- Double Gate
- Electric Pullbox
- Electric Vault
- Grate Inlet
- Monitoring Well
- Palm Tree
- Pipe Inlet / Pipe Outlet
- Pipe Vent
- Post
- Sewer Manhole
- Single Gate
- Steel Sign
- Storm Drain Manhole
- Telephone Vault
- Traffic Vault
- Tree
- Undefined Control Box
- Undefined Manhole
- Undefined Vault
- Valve
- Water Appurtenance-Air Release
- Wood Utility Pole
- Wood Utility Pole w/ Light

LINE PATTERN KEY

- Building
- Concrete/Block Wall
- Concrete Headwall
- Chain Link Fence
- Channel Hinge Point
- Edge of Asphalt Pavement
- Edge of Concrete
- Exposed Pipe
- Flowline
- Plastic Fence
- Pole and Cable Fence
- Post and Wire Fence
- Retaining Wall
- Rip Rap Grade Line
- Steel Guard Rail
- Wrought Iron Fence

AREA PATTERN KEY

- Concrete
- Dirt
- Grate
- Rip Rap/Gravel



SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

U.S. Survey Foot

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

SEE SHEET 61

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			H.B. & TALBERT CHANNEL CHANNEL MAINTENANCE			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: H.B. CHANNEL (D01) FROM BROOKHURST ST. TO ADAMS AVE. TALBERT CHANNEL (D02) FROM BROOKHURST ST. TO YORKTOWN AVE.			
DATE OF SURVEY: 12/11/2019		BY: R. MACIAS, PLS & CREW		SHEET NO. 62 of 63		
MAPPING		BY: A. VU				
OFFICE CHECK		BY: E. MEDINA, PLS				
FIELD CHECK		BY: R. MACIAS, PLS				
MARK	DATE	ITEM	SCALE: 1" = 20'	W.O. #EF19401S	FILE #1920PW-IN0009	
REVISIONS			FILE: HUNTINGTON BEACH CHANNEL PHASE 3_TOPO_2020.DWG			

SYMBOL PATTERN KEY

Double Gate

Electric Pullbox

Electric Vault

Grate Inlet

Monitoring Well

Palm Tree

Pipe Inlet / Pipe Outlet

Pipe Vent

Post

Sewer Manhole

Single Gate

Steel Sign

Storm Drain Manhole

Telephone Vault

Traffic Vault

Tree

Undefined Control Box

Undefined Manhole

Undefined Vault

Valve

Water Appurtenance-Air Release

Wood Utility Pole

Wood Utility Pole w/ Light

LINE PATTERN KEY

Building

Concrete/Block Wall

Concrete Headwall

Chain Link Fence

Channel Hinge Point

Edge of Asphalt Pavement

Edge of Concrete

Exposed Pipe

Flowline

Plastic Fence

Pole and Cable Fence

Post and Wire Fence

Retaining Wall

Rip Rap Grade Line

Steel Guard Rail

Wrought Iron Fence

AREA PATTERN KEY

Concrete

Dirt

Grate

Rip Rap/Gravel

