



OC PUBLIC WORKS DEPARTMENT

SHANE SILSBY, DIRECTOR

KEVIN HILLS, COUNTY SURVEYOR

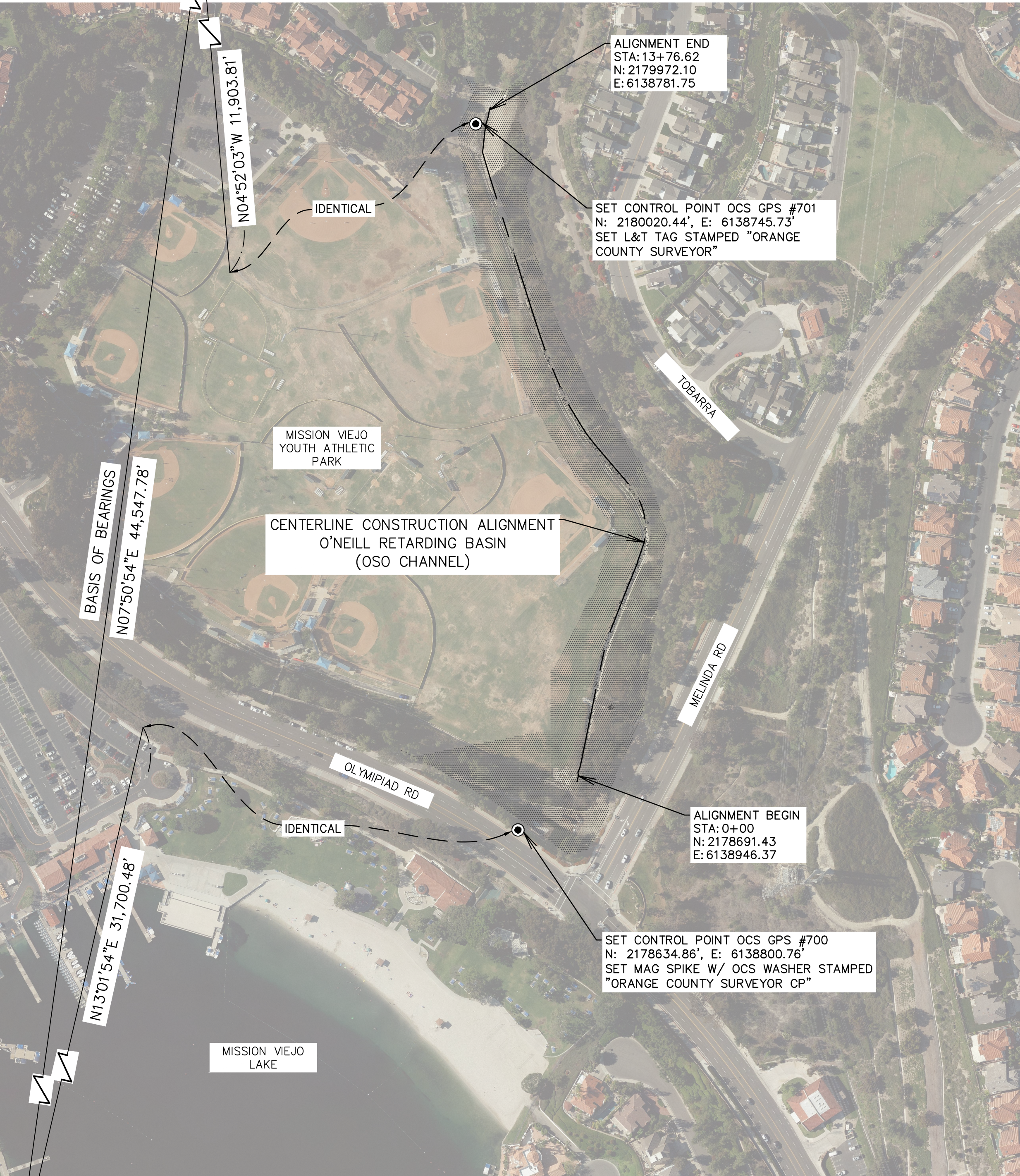
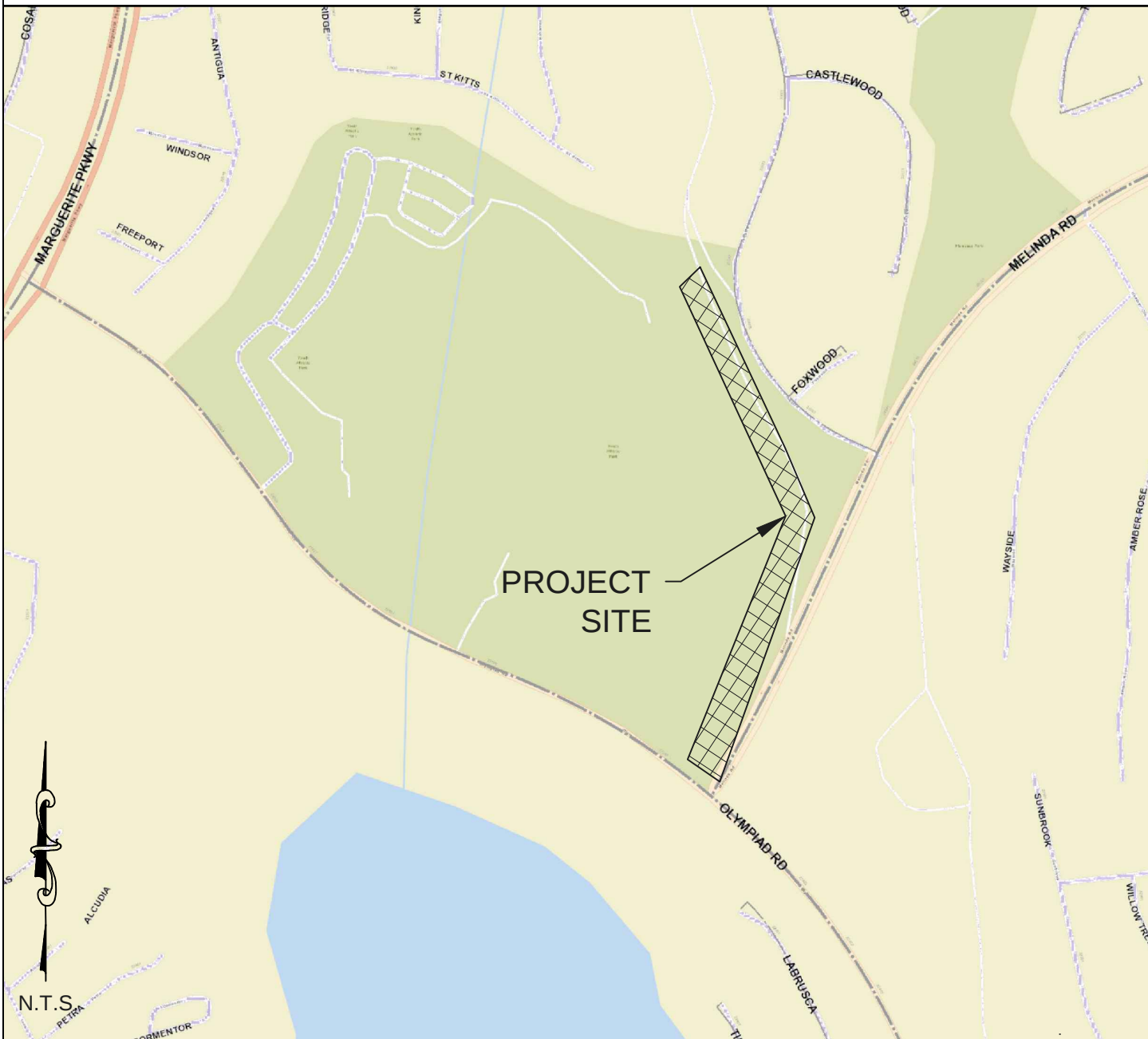
O'NEILL RETARDING BASIN

OSO CHANNEL (L03B01)



FOUND CGPS WHYT
N: 2191881.31'
E: 6137735.65'
THIS IS A CONTINUOUS GPS STATION (CGPS) AND IS PART OF
THE CALIFORNIA SPATIAL PREFERENCE NETWORK (CSPN),
FROM WHICH DATA CAN BE DOWNLOADED HERE:
[HTTP://SOPACSRC.UCS.D.EDU/](http://sopacsrc.ucsd.edu/)

LOCATION MAP



BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS 2007.00 EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) "WHYT" AND "SBCC", BEING NORTH 07°50'54" EAST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NORTH AMERICAN DATUM (2007.00 EPOCH O.C.S. G.P.S. ADJUSTMENT).

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED.
MULTIPLY A GRID DISTANCE BY 1.0000607 TO OBTAIN GROUND DISTANCE.

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

VERTICAL DATUM

O.C.S. BM. 3HH-13-77 ELEV. = 749.008' YEAR LEVELED: 2004
NAVD 1988 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: DESCRIBED BY OCS 2002-FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3HH-13-77" SET IN THE NORTHEASTERLY CORNER OF A 5.4 FT. BY 6.4 FT. CONCRETE VAULT. MONUMENT IS ST IN THE "T" INTERSECTION OF THE OLYMPIAD ROAD AND MELINDA ROAD, ON LINE WITH THE PROJECTED CENTERLINE OF MELINDA, AND 33 FT. SOUTHERLY OF THE CENTERLINE OF OLYMPIAD. 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.

SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET #1	TITLE SHEET
SHEET #2	ALIGNMENT ESTABLISHMENT SHEET
SHEET #3-6	TOPOGRAPHIC MAP
SHEET #7-11	PROFILE

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 30 DAY OF JULY, 2019.

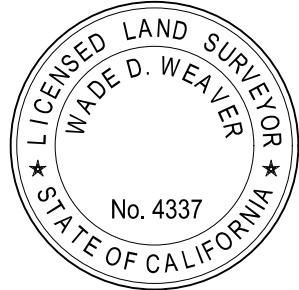
MICHAEL KUBISTY, PLS SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 30 DAY OF JULY, 2019.

WADE WEAVER, PLS DEPUTY COUNTY SURVEYOR



U.S. Survey Foot

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

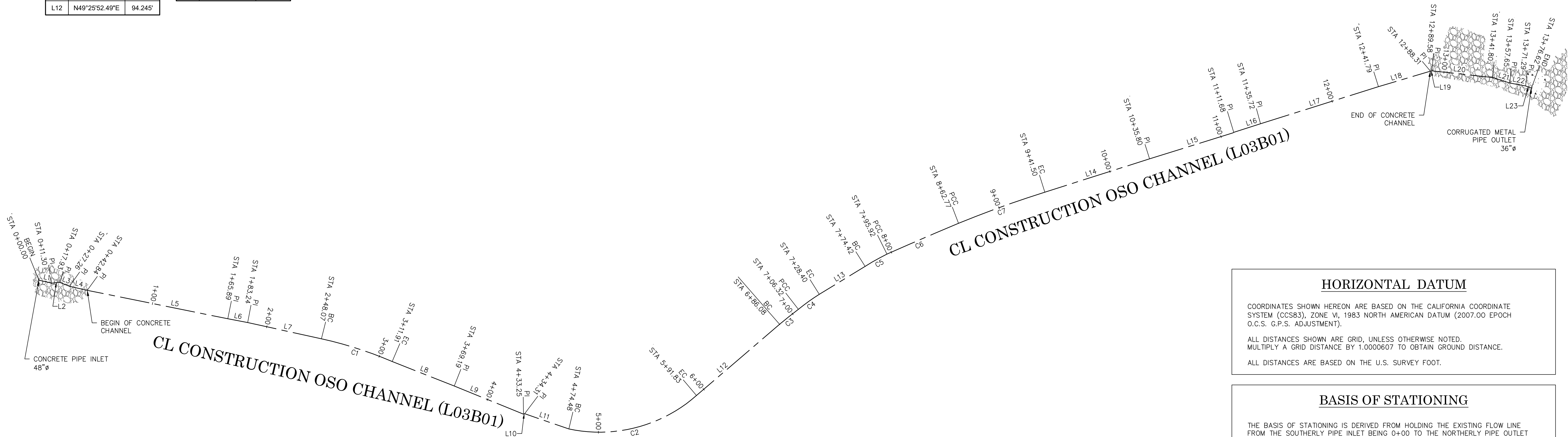
TOPOGRAPHIC MAPPING PROJECT

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			O'NEILL RETARDING BASIN TOPO				
			OSO CHANNEL (L03B01)				
			TITLE SHEET				
			DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY		SHEET NO. 1 of 11
			TOPOGRAPHIC MAPPING		BY: R.BELTRAN		
			OFFICE CHECK		BY: M. KUBISTY PLS		
			FIELD CHECK		BY: S. STROM		
			SCALE: N.T.S				
REV NO.	DATE	ITEM	FILE: O'NEILL_BASIN_TOPO_2019.DWG				
REVISIONS							

Line Table		
LINE	BEARING	LENGTH
L1	N76°33'49.75"W	11.301'
L2	N83°11'48.18"E	6.627'
L3	N68°28'07.65"W	9.332'
L4	N77°10'52.42"W	15.581'
L5	N78°34'31.68"W	123.053'
L6	N79°09'02.84"W	17.341'
L7	N77°36'09.40"W	64.833'
L8	N68°29'47.43"W	57.284'
L9	N67°54'42.33"W	64.061'
L10	N70°08'15.66"E	1.054'
L11	N71°01'12.85"W	40.174'
L12	N49°25'52.49"E	94.245'

Line Table		
LINE	BEARING	LENGTH
L13	N58°40'26.69"E	46.015'
L14	N72°21'35.08"E	94.301'
L15	N72°43'51.59"E	75.016'
L16	N72°10'02.11"E	24.040'
L17	N72°33'59.89"E	106.066'
L18	N73°22'45.97"E	46.523'
L19	N78°18'27.24"E	1.263'
L20	N83°44'03.53"W	52.227'
L21	N72°23'01.92"W	15.844'
L22	N79°37'08.11"W	13.646'
L23	N70°06'31.71"W	5.326'

Curve Table				
CURVE	Δ	RADIUS	LENGTH	TANGENT
C1	010.77	339.48'	63.84'	32.01'
C2	053.36	126.00'	117.35'	63.32'
C3	001.60	726.18'	20.24'	10.12'
C4	006.67	189.81'	22.08'	11.05'
C5	005.97	206.50'	21.50'	10.76'
C6	001.06	3606.36'	66.85'	33.43'
C7	004.70	958.74'	78.73'	39.39'



HORIZONTAL DATUM

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ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. MULTIPLY A GRID DISTANCE BY 1.0000607 TO OBTAIN GROUND DISTANCE.

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

BASIS OF STATIONING

THE BASIS OF STATIONING IS DERIVED FROM HOLDING THE EXISTING FLOW LINE FROM THE SOUTHERLY PIPE INLET BEING 0+00 TO THE NORTHERLY PIPE OUTLET BEING 13+76.62 AS SHOWN HEREON.

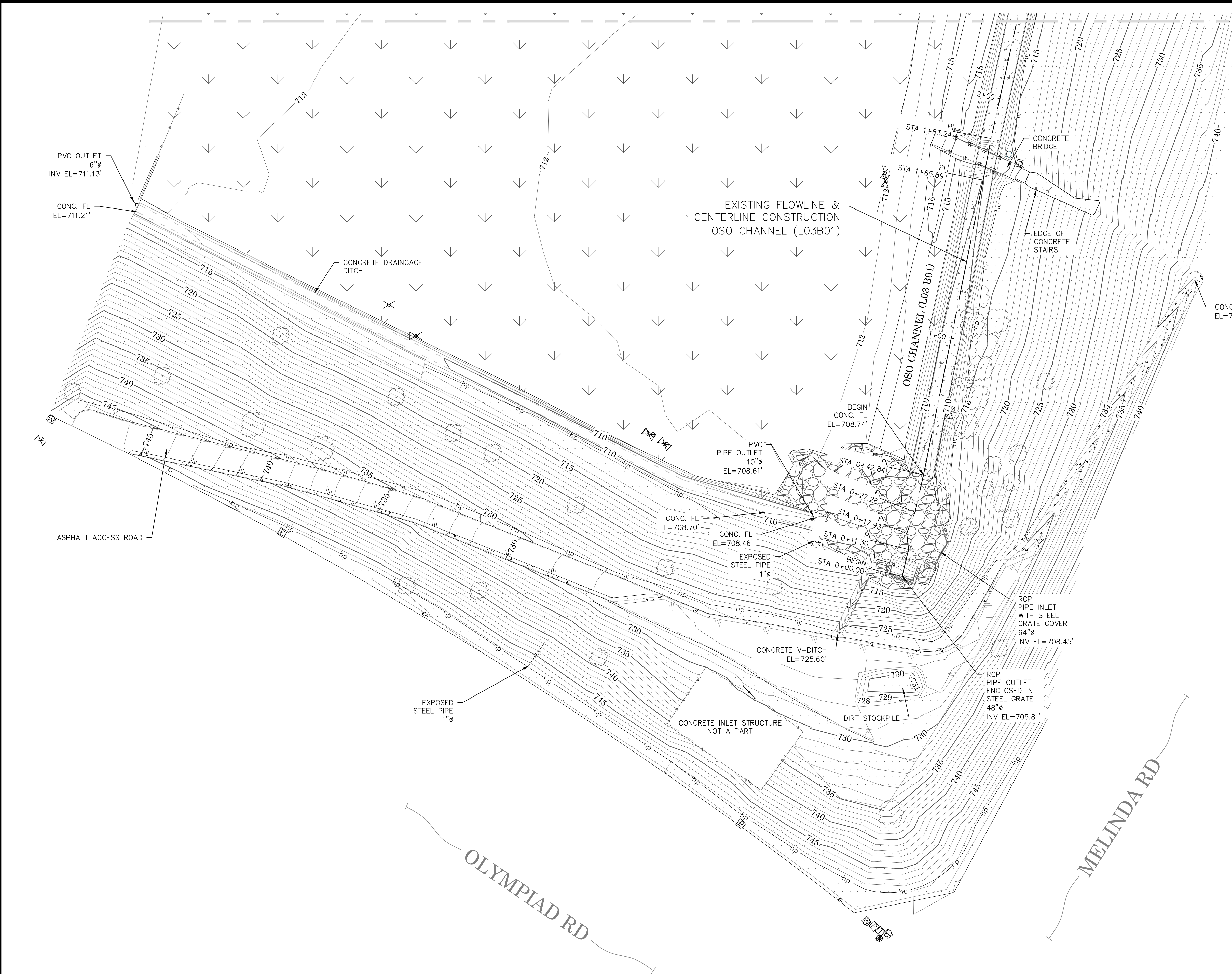
ALIGNMENT ESTABLISHMENT NOTE

THE ALIGNMENT SHOWN HEREON WAS DERIVED BY HOLDING THE FLOW LINE AT THE CENTERLINE OF THE EXISTING CHANNEL FROM A CONCRETE PIPE INLET AT THE SOUTHERLY END OF THE CHANNEL TO A PIPE OUTLET AT THE NORTHERLY END OF THE CHANNEL PER DIRECTIVE FROM THE CIVIL ENGINEER FOR THIS PROJECT ROBERT MCLEAN RCE. THIS ALIGNMENT IS SHOWN AS CL CONSTRUCTION ON SHEETS 3-6 PER THIS TOPOGRAPHY.



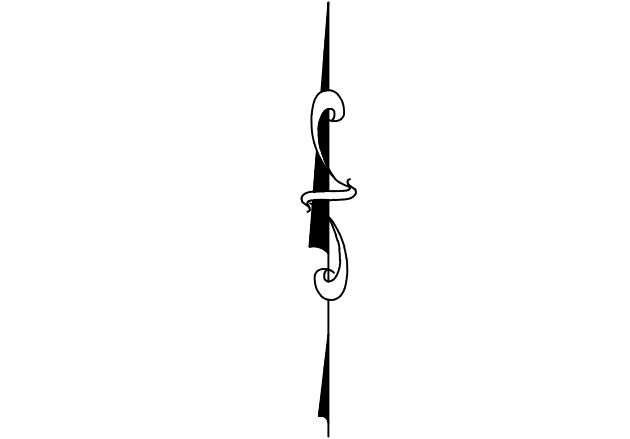
U.S. Survey Foot
OC Public Works/Engineering Services
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
O'NEILL RETARDING BASIN TOPO						
OSO CHANNEL (L03B01)						
ALIGNMENT ESTABLISHMENT SHEET						
DATE OF SURVEY: 01-22-2019				BY: STROM & PARTY		SHEET NO. 2 of 11
TOPOGRAPHIC MAPPING				BY: R.BELTRAN		
OFFICE CHECK				BY: M. KUBISTY PLS		
FIELD CHECK				BY: S.STROM		
SCALE: N.T.S						
FILE: O'NEILL_BASIN_TOPO_2019.DWG						
REV NO.	DATE	ITEM				
REVISIONS						



MATCHLINE - SEE SHEET 4

CONTOUR INTERVAL= 1'



GRAPHIC SCALE

U.S. Survey
Foot

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

ALIGNMENT NOTES

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BASIS OF STATIONING

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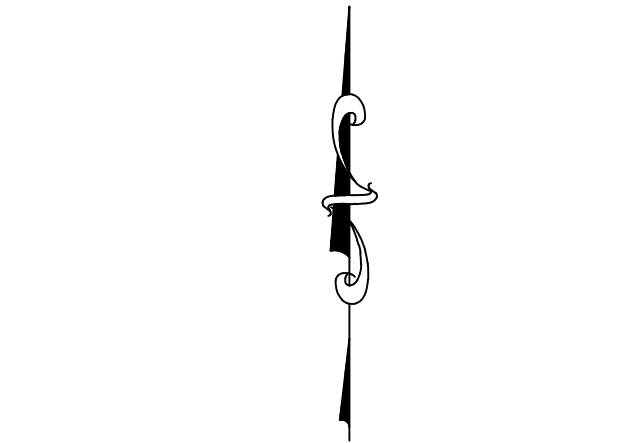
LEGEND

SYMBOL		LINE PATTERN KEY	
	MTRWA Meter, Water		Centerline
	PBXEL Pull Box, Traffic		Edge of Conc
	PPO Pipe Outlet		Edge of Asplatt Pavement
	PBXTL Pullbox Telephone		Flowline
	PBXTR Pullbox Traffic		Chainlink Fence
	SNN Sign Post		Fence Unknown
	MHHSW Sewer Manhole		Hinge Point
	VLVWA Valve Water		Grade Line
	VLTUN Vault Unknown		Block Wall
	VLVIR Valve Irrigation		Exposed Pipe
	GRI Grate		Wing Wall
	SCO Sewer Clean out	ABBREVIATION KEY	
	UP2 Utility Pole-2 Light	RCP	REINFORCED CONC. PIPE
	PBXEL Pullbox Electrical	PVC	POLYVINYL CHLORIDE PIPE
	SGT Single Gate	CMP	CORRUGATED METAL PIPE
	DBG Double Gate	AREA PATTERN KEY	
	MTRWA Water Meter		Concrete
	LPL Light Pole-Single		Dirt
PLANT KEY			Rip Rap
	TRE_ Tree		Grass
	TREPM Palm Tree		

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
O'NEILL RETARDING BASIN TOPO			
OSO CHANNEL (L03B01)			
TOPOGRAPHIC MAP			
DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY	SHEET NO. 3 of 11
TOPOGRAPHIC MAPPING		BY: R.BELTRAN	
OFFICE CHECK		BY: M. KUBISTY PLS	
FIELD CHECK		BY: S. STROM	
SCALE: 1" = 20'			
REV NO.	DATE	ITEM	FILE: O'NEILL_BASIN_TOPO_2019.DWG
REVISIONS			



CONTOUR INTERVAL= 1'



GRAPHIC SCALE

U.S. Survey
Foot

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

ALIGNMENT NOTES

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LEGEND

SYMBOL

- MTRWA Meter, Water
- PBXEL Pull Box, Traffic
- PPO Pipe Outlet
- PBXTL Pullbox Telephone
- PBXTR Pullbox Traffic
- SNN Sign Post
- MHHSW Sewer Manhole
- VLVWA Valve Water
- VLTUN Vault Unknown
- VLVIR Valve Irrigation
- GRI Grate
- SCO Sewer Clean out
- UP2 Utility Pole-2 Light
- PBXEL Pullbox Electrical
- SGT Single Gate
- DBG Double Gate
- MTRWA Water Meter
- LPL Light Pole-Single
- TRE_ Tree
- TREPM Palm Tree

LINE PATTERN KEY

- Centerline
- Edge of Conc
- Edge of Asplatt Pavement
- Flowline
- Chainlink Fence
- Fence Unknown
- Hinge Point
- Grade Line
- Block Wall
- Exposed Pipe
- Wing Wall

ABBREVIATION KEY

- RCP REINFORCED CONC. PIPE
- PVC POLYVINYL CHLORIDE PIPE
- CMP CORRUGATED METAL PIPE

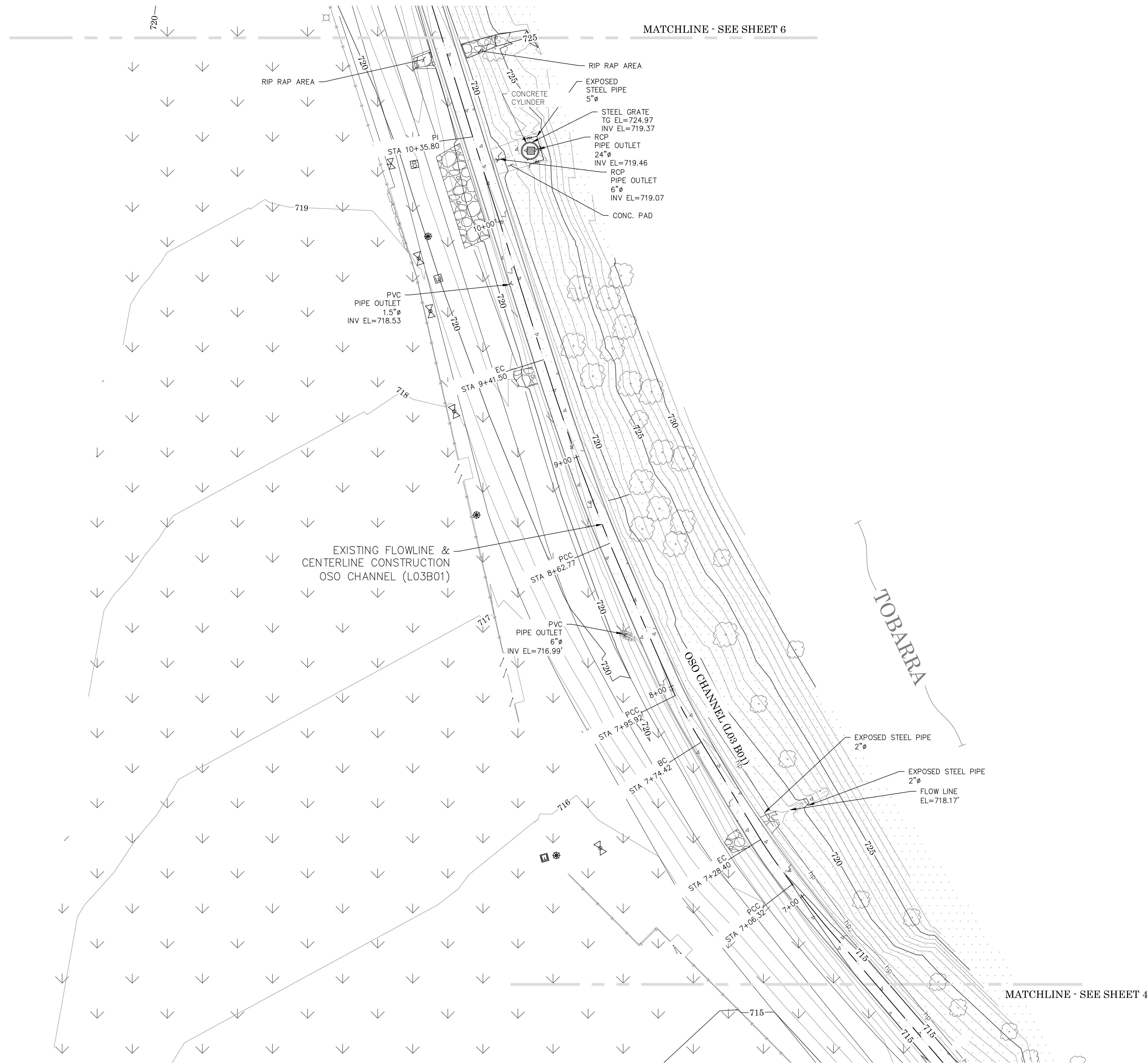
AREA PATTERN KEY

- Concrete
- Dirt
- Rip Rap
- Grass

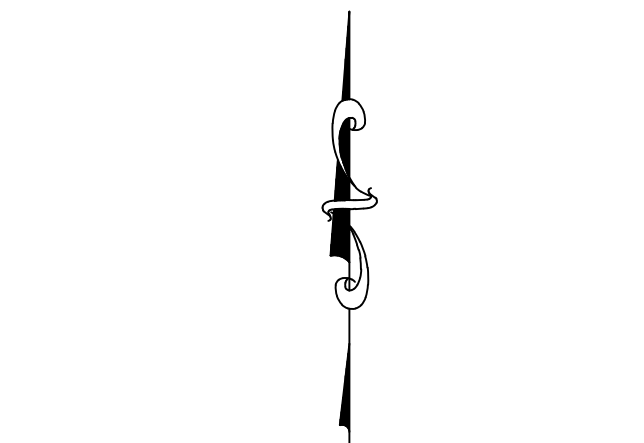
PLANT KEY

- TRE_ Tree
- TREPM Palm Tree

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			O'NEILL RETARDING BASIN TOPO			
			OSO CHANNEL (L03B01)			
			TOPOGRAPHIC MAP			
			DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY	SHEET NO. 4 of 11
			TOPOGRAPHIC MAPPING		BY: R.BELTRAN	
			OFFICE CHECK		BY: M. KUBISTY PLS	
			FIELD CHECK		BY: S. STROM	
			SCALE: 1" = 20'			
REV NO.	DATE	ITEM	FILE: O'NEILL_BASIN_TOPO_2019.DWG			
REVISIONS						



CONTOUR INTERVAL= 1'



GRAPHIC SCALE

U.S. Survey
Foot

OC Public Works/Engineering Services
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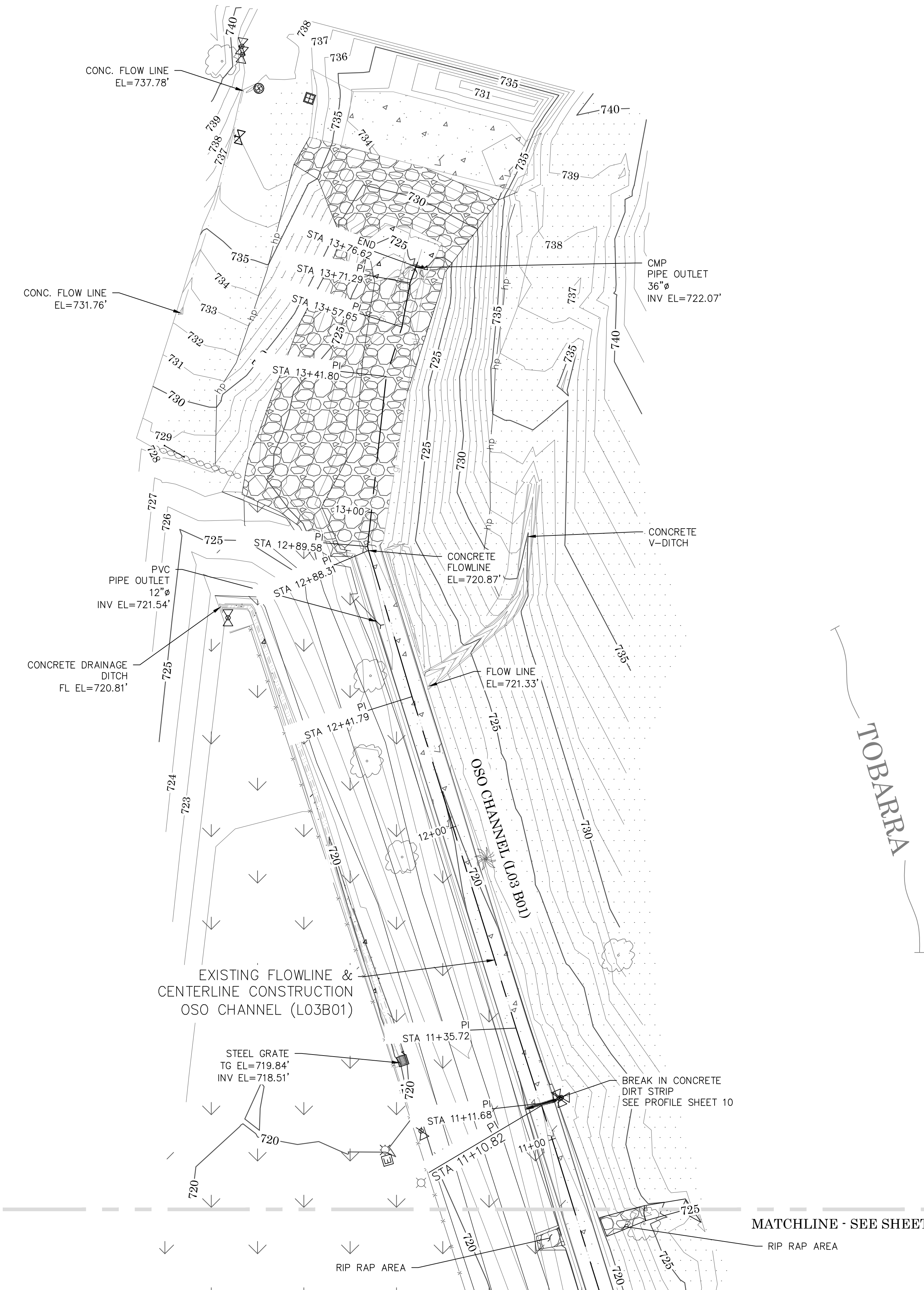
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LEGEND

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	TRE_ Tree		Rip Rap
	TREPM Palm Tree		Grass

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
O'NEILL RETARDING BASIN TOPO			
OSO CHANNEL (L03B01)			
TOPOGRAPHIC MAP			
DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY	SHEET NO. 5 of 11
TOPOGRAPHIC MAPPING		BY: R.BELTRAN	
OFFICE CHECK		BY: M. KUBISTY PLS	
FIELD CHECK		BY: S. STROM	
REV NO.	DATE	ITEM	FILE: O'NEILL_BASIN_TOPO_2019.DWG
REVISIONS			



CONTOUR INTERVAL= 1'

SCALE 1"= 20'

GRAPHIC SCALE

U.S. Survey Foot

OC Public Works/Engineering Services
OC Survey/Field Services
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LEGEND

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PBXEL	Pull Box, Traffic	Edge of Conc	
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PBXTL	Pullbox Telephone	Flowline	
PBXTR	Pullbox Traffic	Chainlink Fence	
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VLVIR	Valve Irrigation	Exposed Pipe	
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SCO	Sewer Clean out		
UP2	Utility Pole-2 Light		
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SGT	Single Gate		
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ABBREVIATION KEY

RCP	REINFORCED CONC. PIPE
PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE

AREA PATTERN KEY

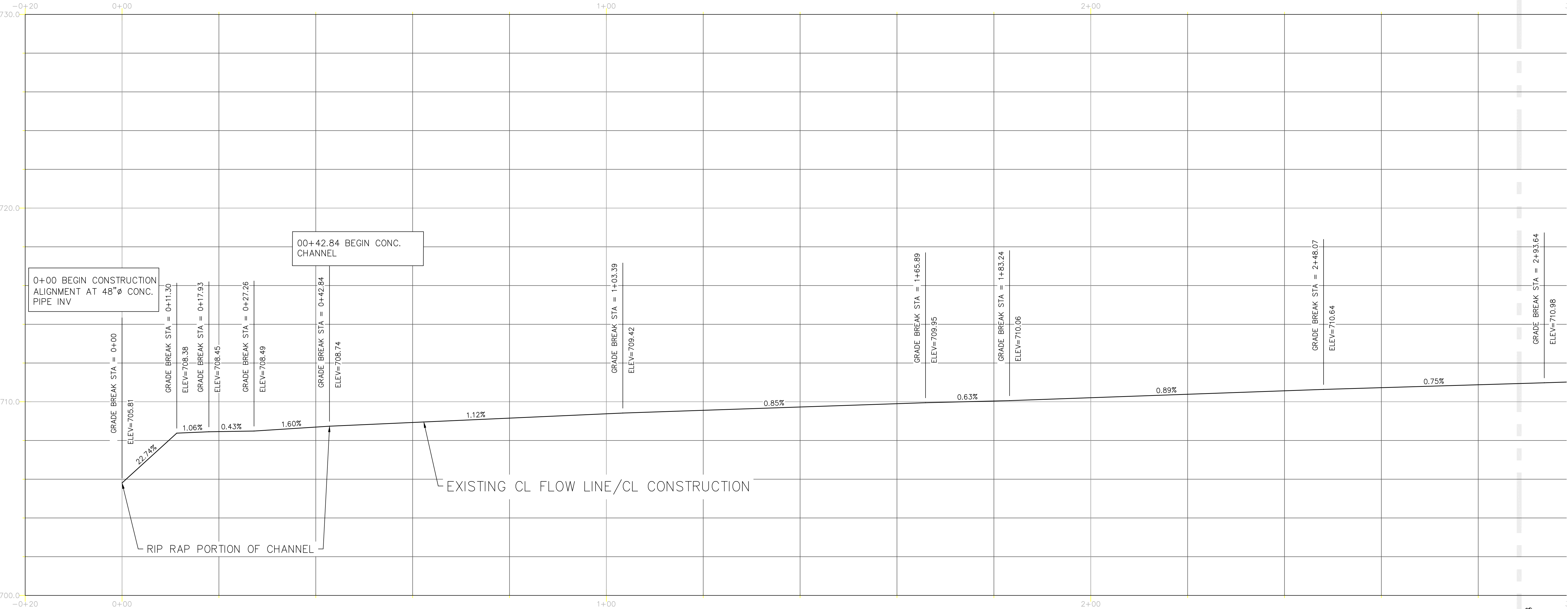
Concrete	
Dirt	
Rip Rap	
Grass	

PLANT KEY

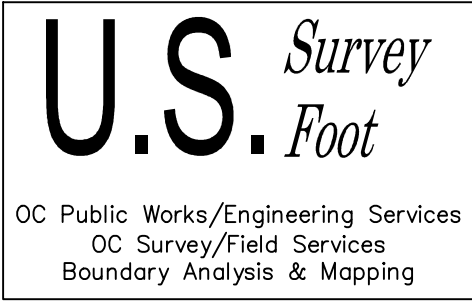
TRE_	Tree
TREPM	Palm Tree

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
O'NEILL RETARDING BASIN TOPO			
OSO CHANNEL (L03B01)			
TOPOGRAPHIC MAP			
DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY	SHEET NO. 6 of 11
TOPOGRAPHIC MAPPING		BY: R.BELTRAN	
OFFICE CHECK		BY: M. KUBISTY PLS	
FIELD CHECK		BY: S. STROM	
SCALE: 1" = 20'			
FILE: O'NEILL_BASIN_TOPO_2019.DWG			
REV NO.	DATE	ITEM	
REVISIONS			

O'NEILL RETARDING BASIN (OSO CHANNEL) PROFILE
STA 0+00 TO 13+76.62
Vert. Scale 1"=5'
Horiz. Scale 1"=20'

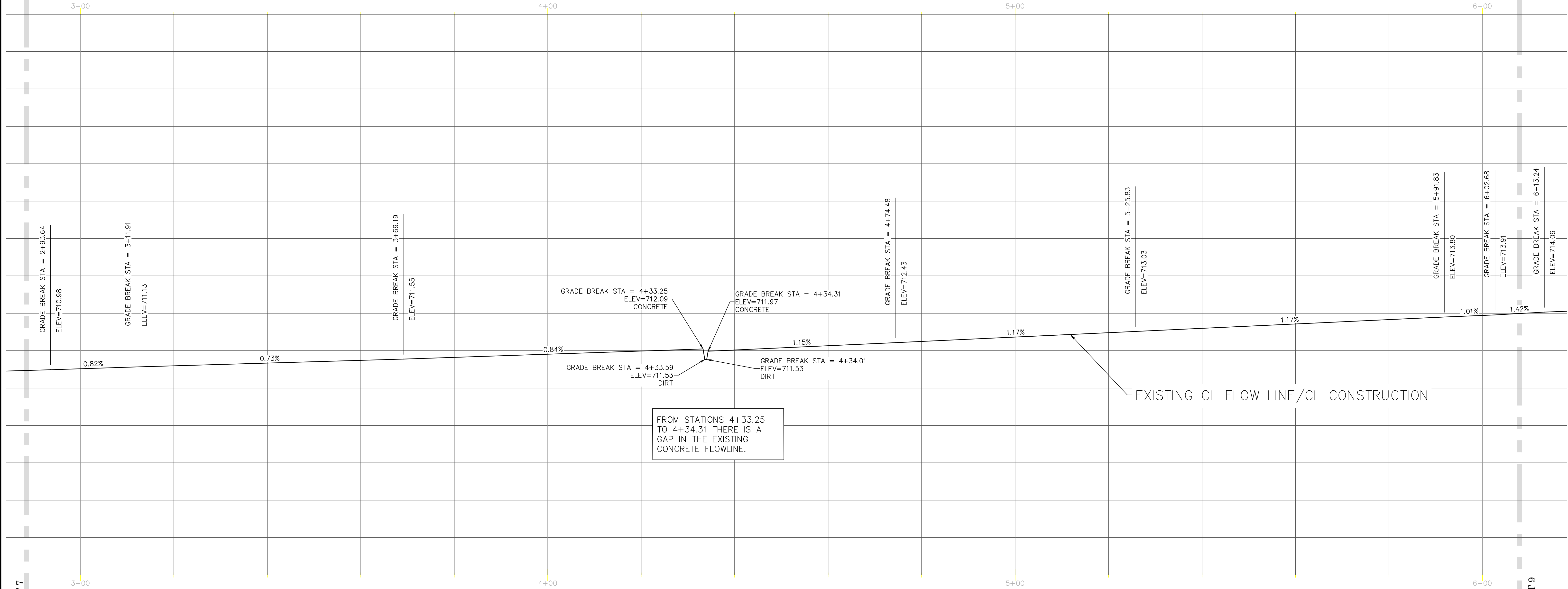


THE PROFILE SHOWN HEREON WAS DEVELOPED BY HOLDING THE C/L FLOWLINE GRADES OF THE EXISTING CHANNEL PER THIS TOPOGRAPHY. SURVEYED 01/22/19
Date Prepared: 07/18/2019



REV NO.	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			O'NEILL RETARDING BASIN TOPO		
			OSO CHANNEL (L03B01)		
			ALIGNMENT PROFILE		
			DATE OF SURVEY: 01-22-2019		
			BY: STROM & PARTY		SHEET NO. 7 of 11
			TOPOGRAPHIC MAPPING		
			OFFICE CHECK		
			FIELD CHECK		
SCALE: AS NOTED					
FILE: O'NEILL_BASIN_TOPO_2019.DWG					

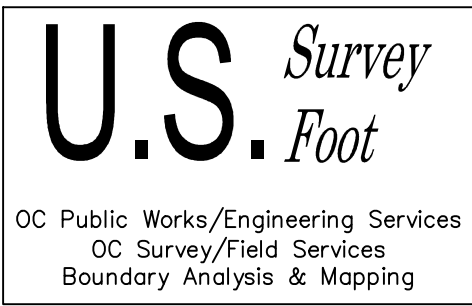
O'NEILL RETARDING BASIN (OSO CHANNEL) PROFILE
STA 0+00 TO 13+76.62
Vert. Scale 1"=5'
Horiz. Scale 1"=20'



MATCHLINE - SEE SHEET 7

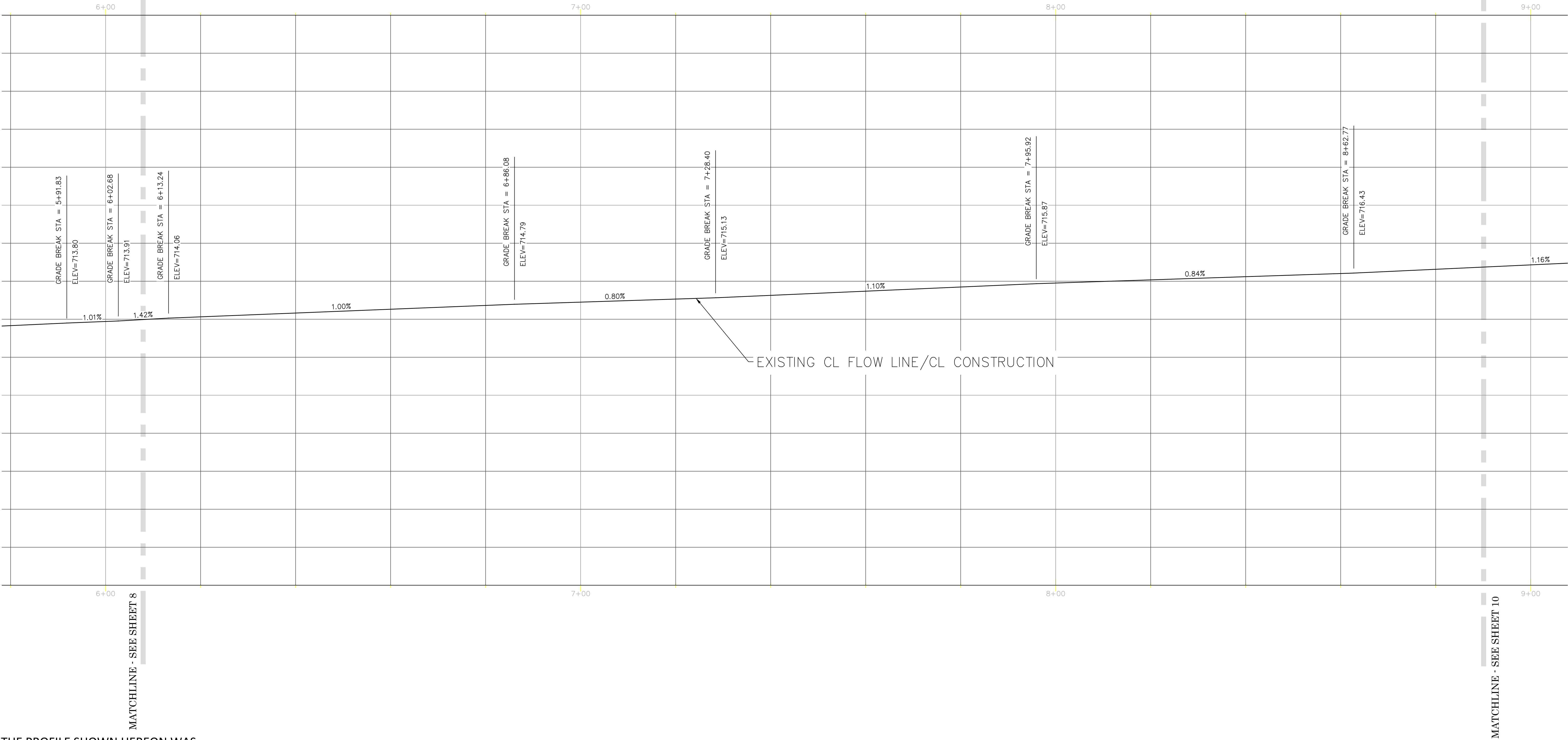
MATCHLINE - SEE SHEET 9

THE PROFILE SHOWN HEREON WAS
DEVELOPED BY HOLDING THE C/L
FLOWLINE GRADES OF THE EXISTING
CHANNEL PER THIS TOPOGRAPHY.
SURVEYED 01/22/19
Date Prepared: 07/18/2019

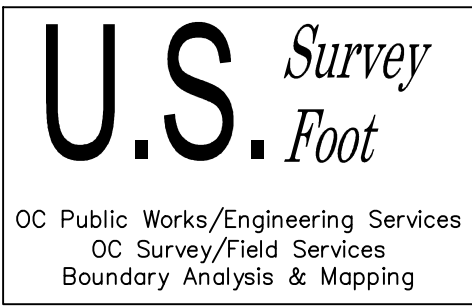


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			O'NEILL RETARDING BASIN TOPO		
			OSO CHANNEL (L03B01)		
			ALIGNMENT PROFILE		
REV NO.	DATE	ITEM	DATE OF SURVEY: 01-22-2019		SHEET NO. 8 of 11
			TOPOGRAPHIC MAPPING		
			OFFICE CHECK		
			FIELD CHECK		
			SCALE: AS NOTED		
			FILE: O'NEILL_BASIN_TOPO_2019.DWG		

O'NEILL RETARDING BASIN (OSO CHANNEL) PROFILE
STA 0+00 TO 13+76.62
Vert. Scale 1"=5'
Horiz. Scale 1"=20'

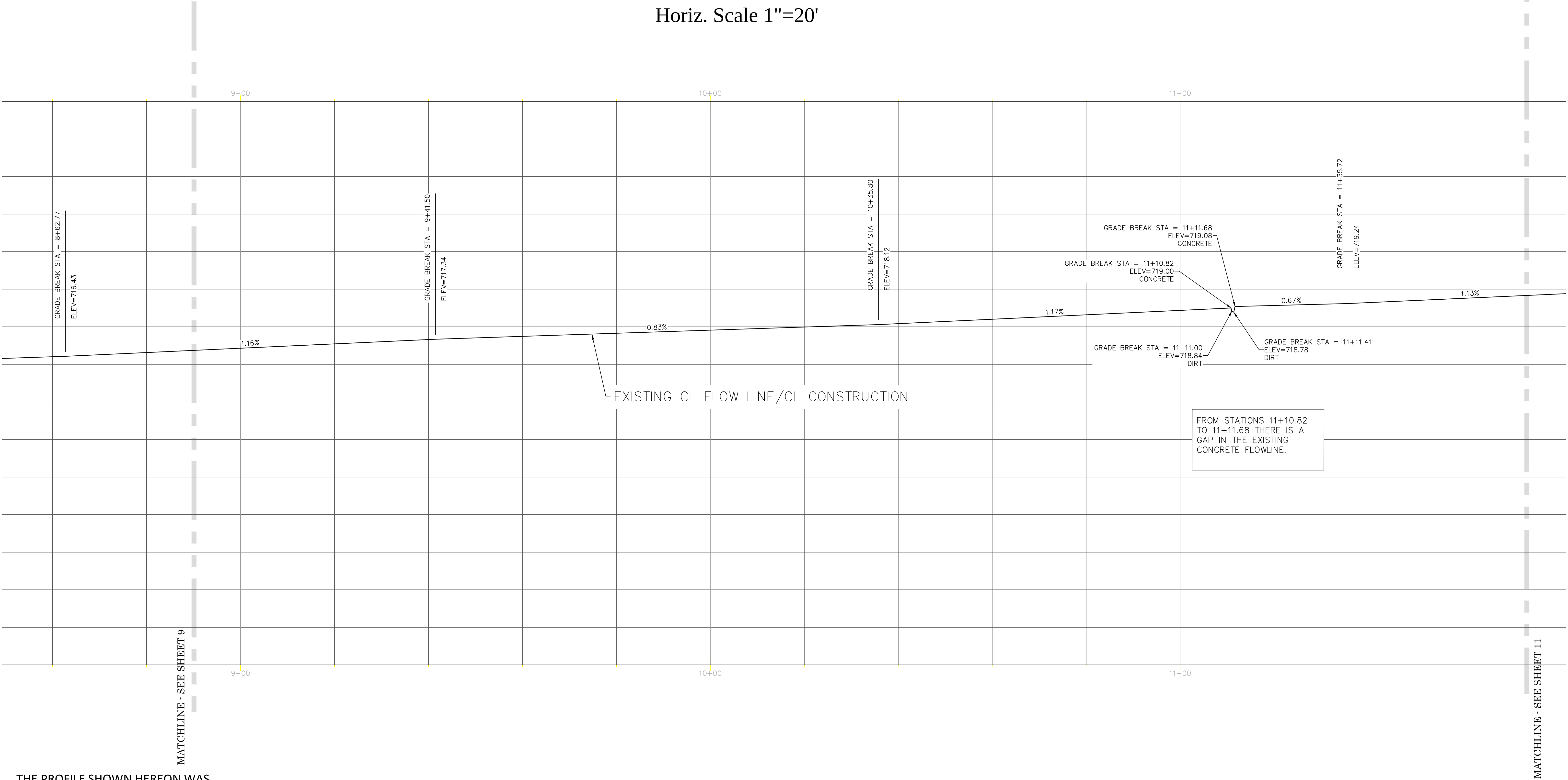


THE PROFILE SHOWN HEREON WAS
DEVELOPED BY HOLDING THE C/L
FLOWLINE GRADES OF THE EXISTING
CHANNEL PER THIS TOPOGRAPHY.
SURVEYED 01/22/19
Date Prepared: 07/18/2019



REV NO.	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			O'NEILL RETARDING BASIN TOPO			
			OSO CHANNEL (L03B01)			
			ALIGNMENT PROFILE			
			DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY	SHEET NO. 9 of 11
			TOPOGRAPHIC MAPPING			
			OFFICE CHECK		BY: R.BELTRAN	
			FIELD CHECK		BY: M. KUBISTY PLS	
			SCALE: AS NOTED		BY: S. STROM	
REVISIONS			FILE: O'NEILL_BASIN_TOPO_2019.DWG			

O'NEILL RETARDING BASIN (OSO CHANNEL) PROFILE
STA 0+00 TO 13+76.62
Vert. Scale 1"=5'
Horiz. Scale 1"=20'



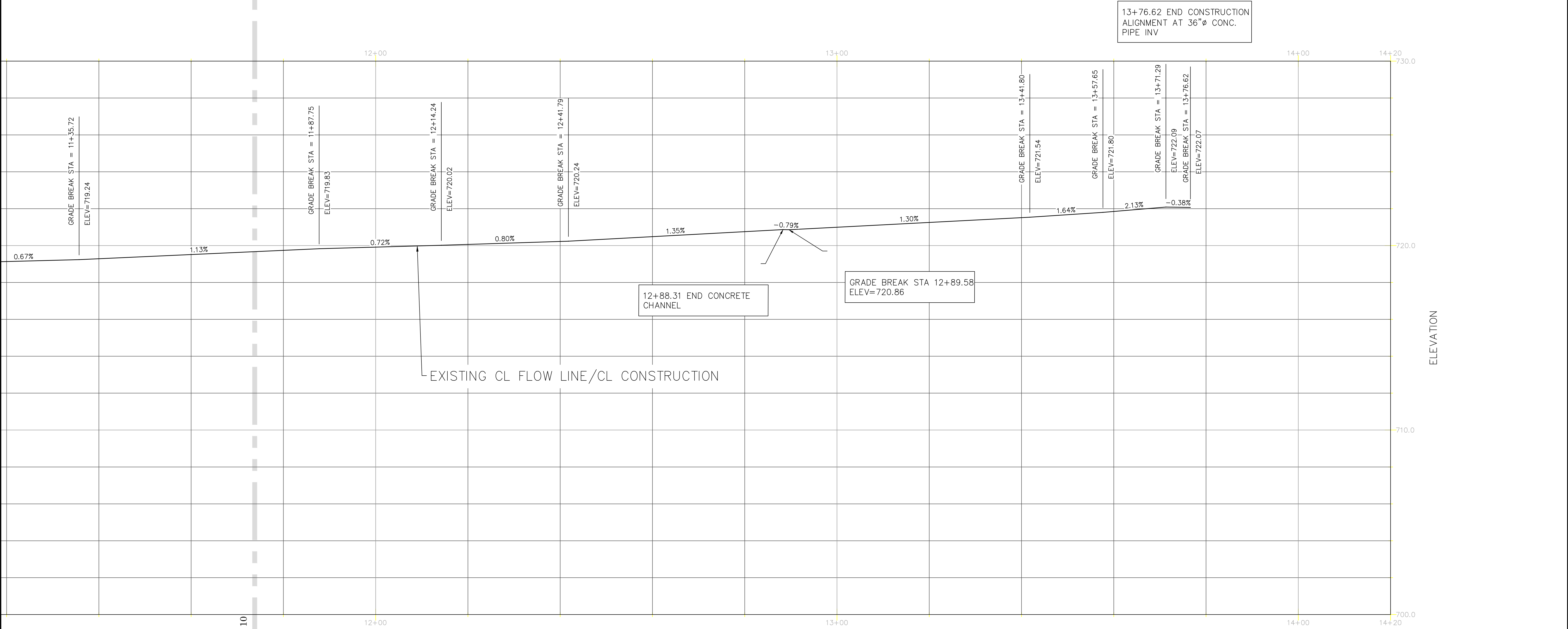
THE PROFILE SHOWN HEREON WAS DEVELOPED BY HOLDING THE C/L FLOWLINE GRADES OF THE EXISTING CHANNEL PER THIS TOPOGRAPHY. SURVEYED 01/22/19
Date Prepared: 07/18/2019

U.S. Survey Foot

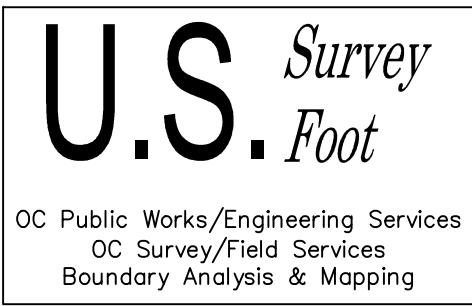
OC Public Works/Engineering Services
OC Survey/Field Services
Boundary Analysis & Mapping

				COUNTY OF ORANGE			
				OC PUBLIC WORKS/ENGINEERING SERVICES			
				OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
				O'NEILL RETARDING BASIN TOPO			
				OSO CHANNEL (L03B01)			
				ALIGNMENT PROFILE			
REV NO.	DATE	ITEM	DATE OF SURVEY: 01-22-2019		BY: STROM & PARTY		SHEET NO. 10 of 11
			TOPOGRAPHIC MAPPING		BY: R.BELTRAN		
			OFFICE CHECK		BY: M. KUBISTY PLS		
			FIELD CHECK		BY: S. STROM		
			SCALE: AS NOTED				
REVISIONS		FILE: O'NEILL_BASIN_TOPO_2019.DWG					

O'NEILL RETARDING BASIN (OSO CHANNEL) PROFILE
STA 0+00 TO 13+76.62
Vert. Scale 1"=5'
Horiz. Scale 1"=20'



THE PROFILE SHOWN HEREON WAS
DEVELOPED BY HOLDING THE C/L
FLOWLINE GRADES OF THE EXISTING
CHANNEL PER THIS TOPOGRAPHY.
SURVEYED 01/22/19
Date Prepared: 07/18/2019



REV NO.	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			O'NEILL RETARDING BASIN TOPO		
			OSO CHANNEL (L03B01)		
			ALIGNMENT PROFILE		
			DATE OF SURVEY: 01-22-2019		SHEET NO. 11 of 11
			TOPOGRAPHIC MAPPING		
			OFFICE CHECK		
			FIELD CHECK		
SCALE: AS NOTED					
FILE: O'NEILL_BASIN_TOPO_2019.DWG					