

Drainage Calculations			
Dramage calculations			
Water Quantity - Predevelopment			
Total Project Area	28.21	ac	1,228,828
Upland Project Area	28.21	ac	1,228,828
Pervious Area	17.04	ac	742,262
Impervious Area	11.69	ac	509,216
% Impervious	0.41		
Rainfall for 25yr/24hr event (P)	9.00	in	
Rainfall for 25yr/3day event (P)	12.23	200001	
Depth to Water Table	4.00	ft	
Predeveloped Available Storage	8.18		
Soil Storage (S)	4.79		
Qpre = (P - 0.2S) ²	7.91	in	
(P + 0.8S)	7.01		
Water Quantity - Postdevelopment			
Project Area	28.21	ac	1,228,828
Pervious Area	18.30		797,148
Impervious Area	9.91	ac	431,680
% Impervious	35.13%		
Rainfall for 25yr/24hr event (P)	9	10.00	
Rainfall for 25yr/3day event (P)	12.23	in	
Depth to Water Table	4.00	ft	
Developed Available Storage	8.18	in	
Soil Storage (S)	5.31	in	
$Qpost = (P - 0.2S)^2$	7.57	in	
(P + 0.8S)			
Runoff Volume from 25 year/ 3 day storm	213.62	ac-in	
Postdevelopment - Predevelopment			
Qpost - Qpre	-0.34	in	
Volume = QA	-9.56	ac-in	

Water Quality				1.1
Project Area	28.21	ac	1,228,828	S
Surface Water	0.00	ac	0	S
Roof Area	0.94	ac	40,946	S
Pavement/Walkways	9.48	ac	412,949	S
Pervious area	18.30	ac	797,148	S
Site area for Water Quality				
(Total area- (water surface + roof area))	27.27	ac	1,187,881	s
Impervious area for water Quality	- 17 17			
(Site area for Water Quality - Pervious area)	8.97	ac	390,733	s
% Impervious	33%			
A) One and a half inches of runoff from project area	42.32	ac-in		
B) 3.75 inches times percent impervious	34.80	ac-in		+
(3.75 x percent impervious x (site area - surface water))				
Comparision of Water Quality Methods				
	42.32	>	34.80	
50 % reduction due to retention	21.16	ac-in	76,802	cf
Powd A			20.427	
Pond A			29,137	cf
Pond B			20,522	cf
Pond C Pond D			16,672	cf cf
1, 1, 0, 1, 0			10,317	
Pond E			2,206	cf
Pond F			3,107	cf
Total Volum e Provided			81,964	cf



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3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:

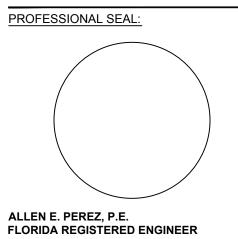
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

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FLORIDA REGISTERED ENGINEER
51468
SUBMITTAL DESCRIPTION / MILESTONE:

DEVELOPMENT APPLICATION March 3, 2013

REVISIONS:	
1 02/22/2013	
2 02/25/2014	

DRAWING SHEET INFORMATION

BA PROJECT NO.: 12010

SCALE: 1" = 100'

DATE: January 14, 2013

DRAWN BY: RTM
CHECKED BY: AEP

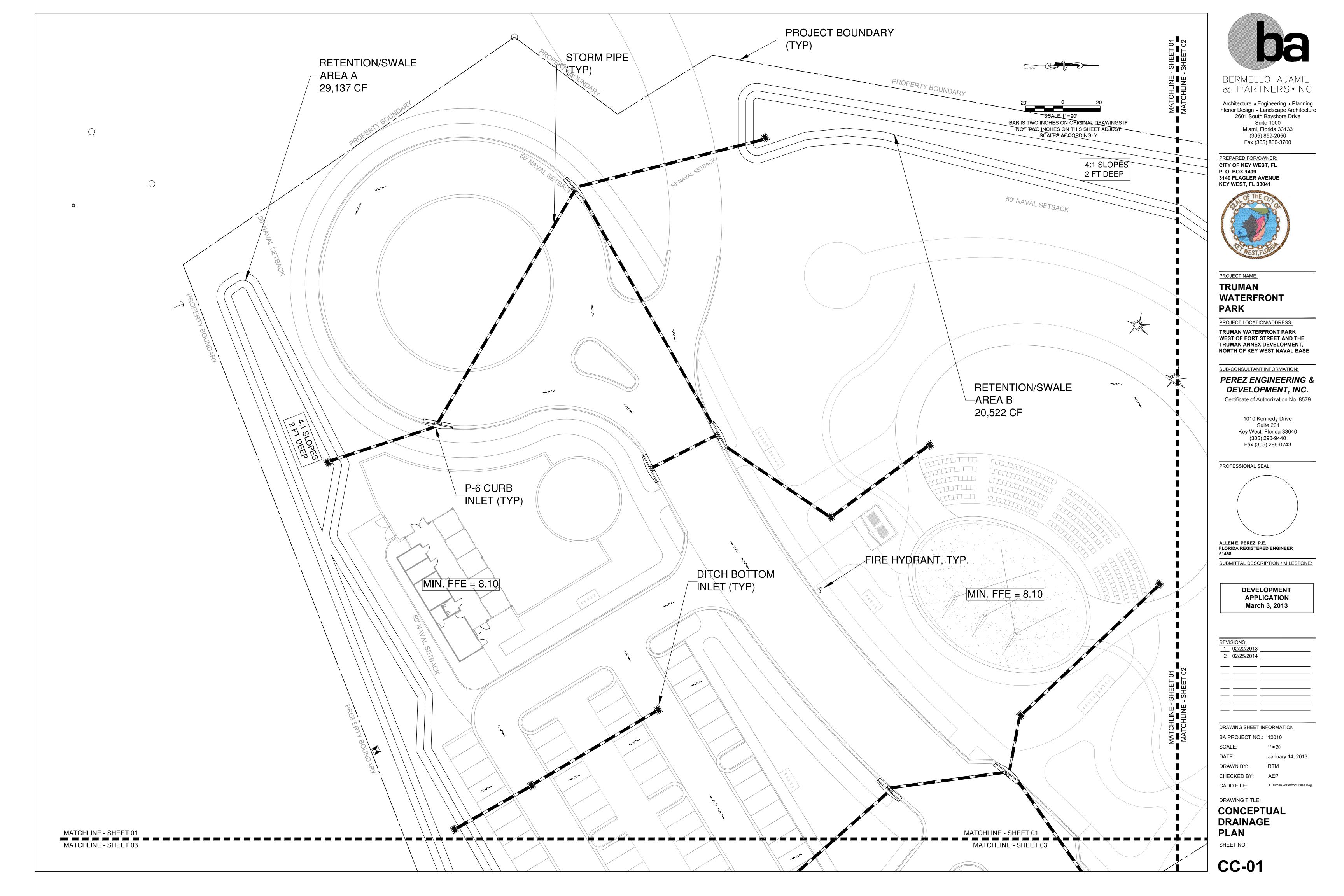
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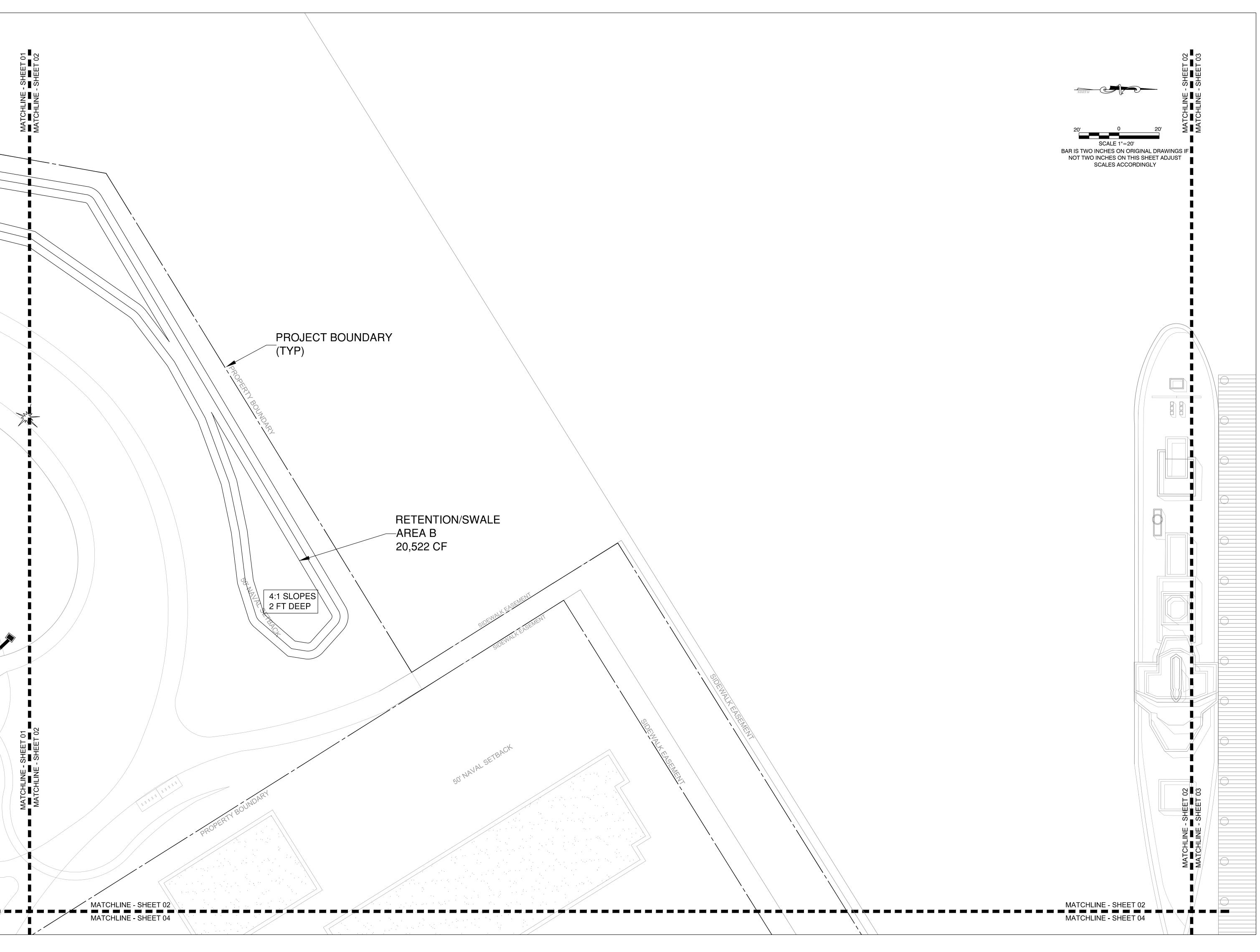
CONCEPTUAL DRAINAGE PLAN

SHEET NO.

DRAWING TITLE:

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PROJECT LOCATION/ADDRESS:

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BA PROJECT NO.: 12010 SCALE: 1" = 20' DATE: January 14, 2013

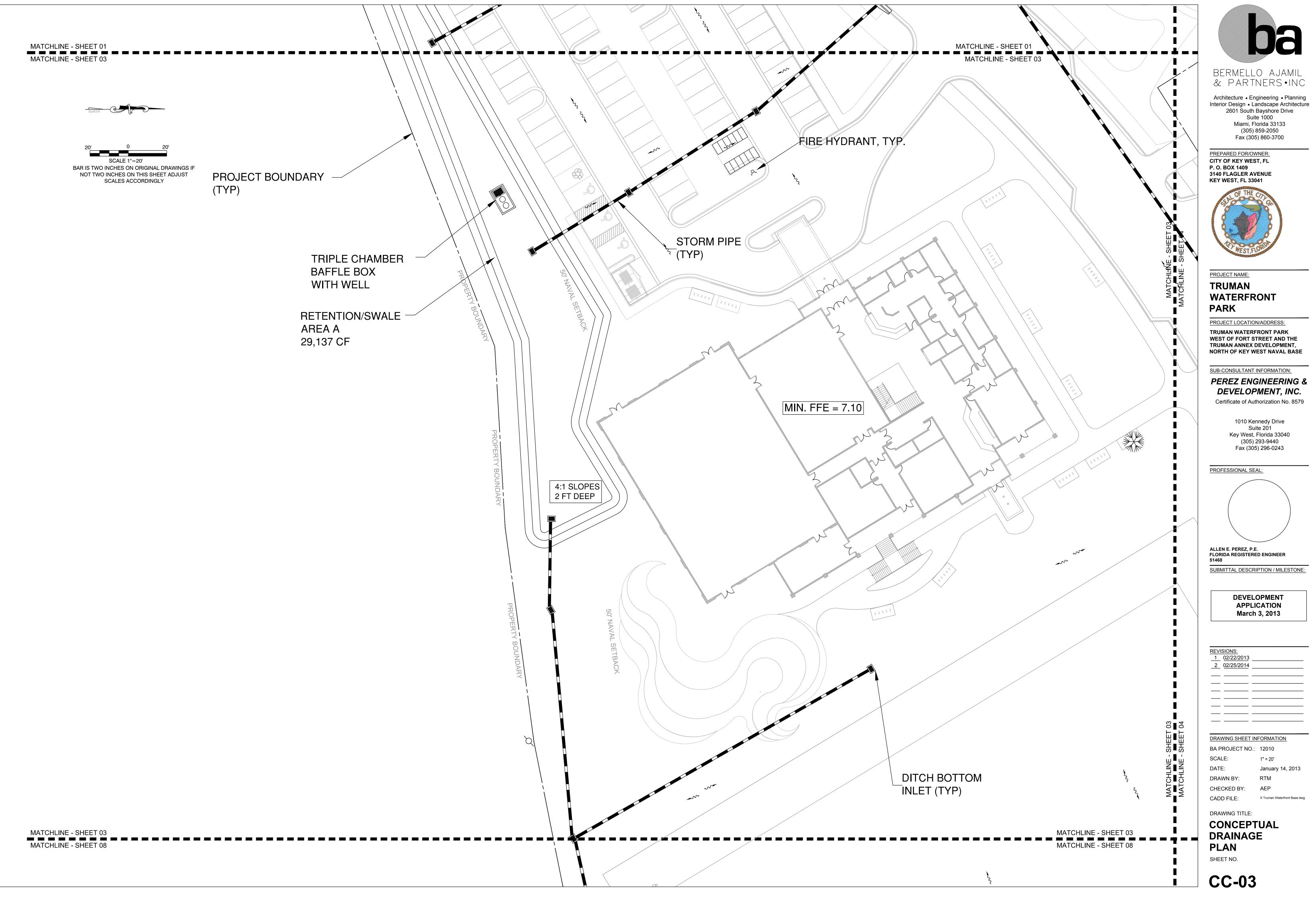
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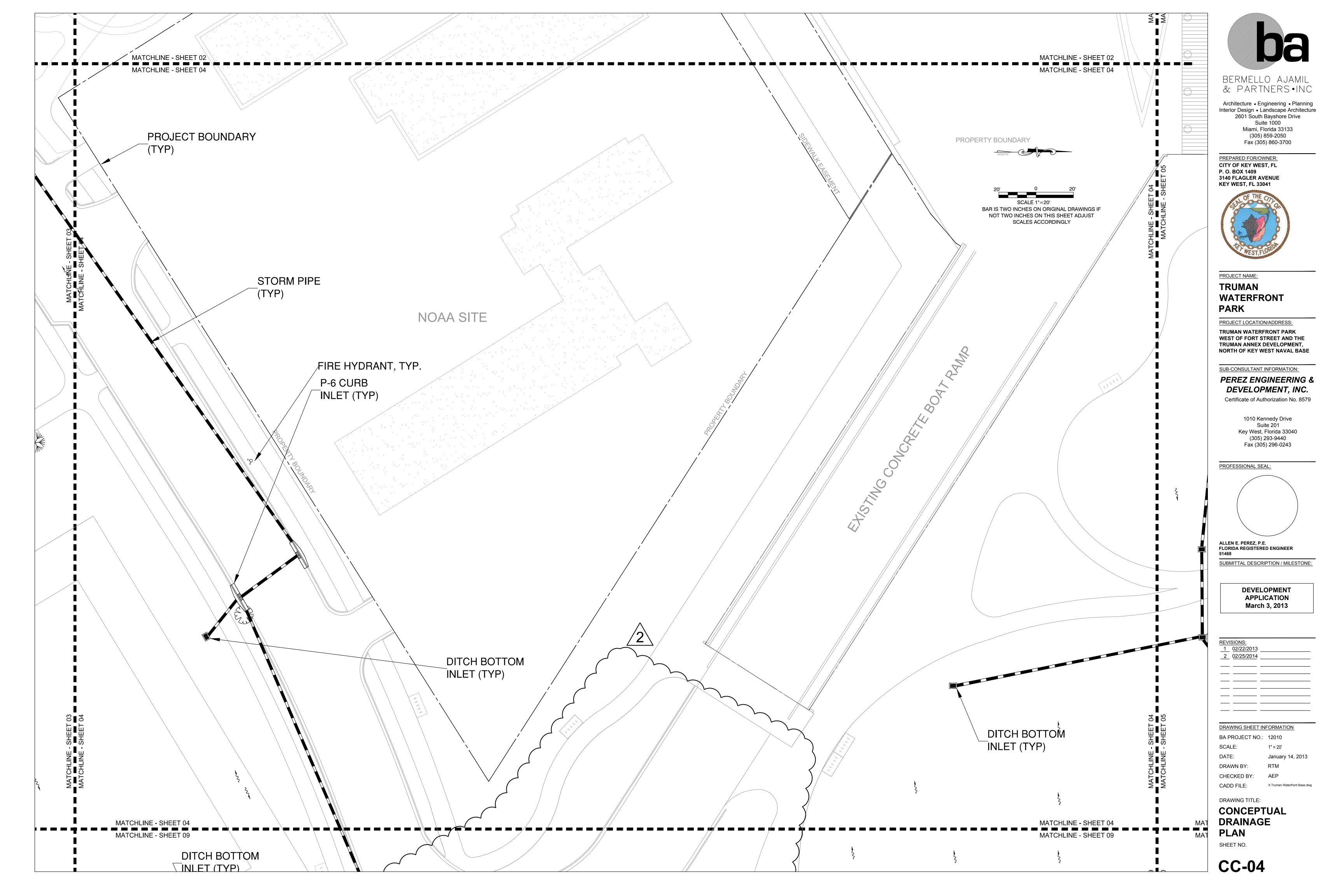
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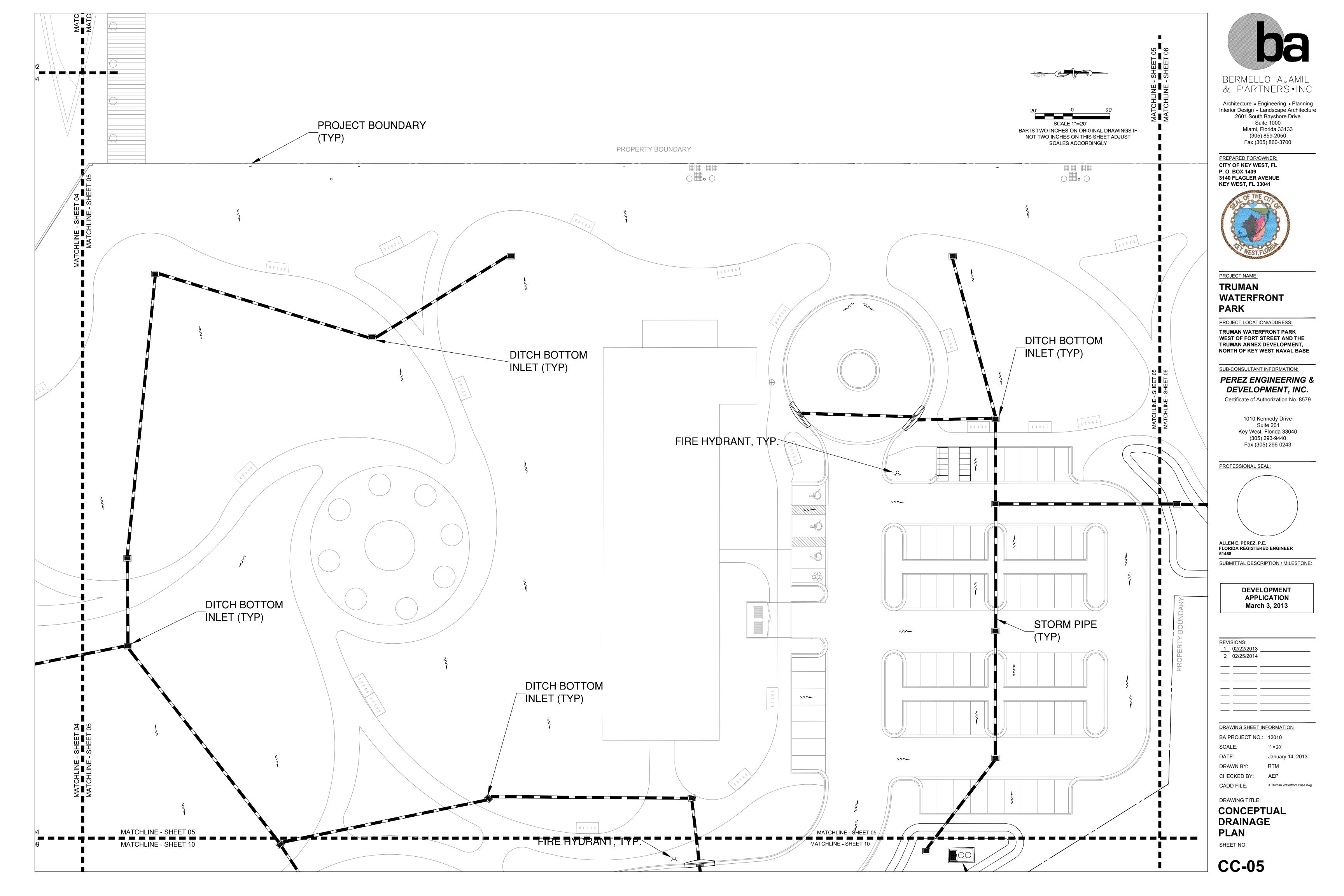
CONCEPTUAL **DRAINAGE PLAN**

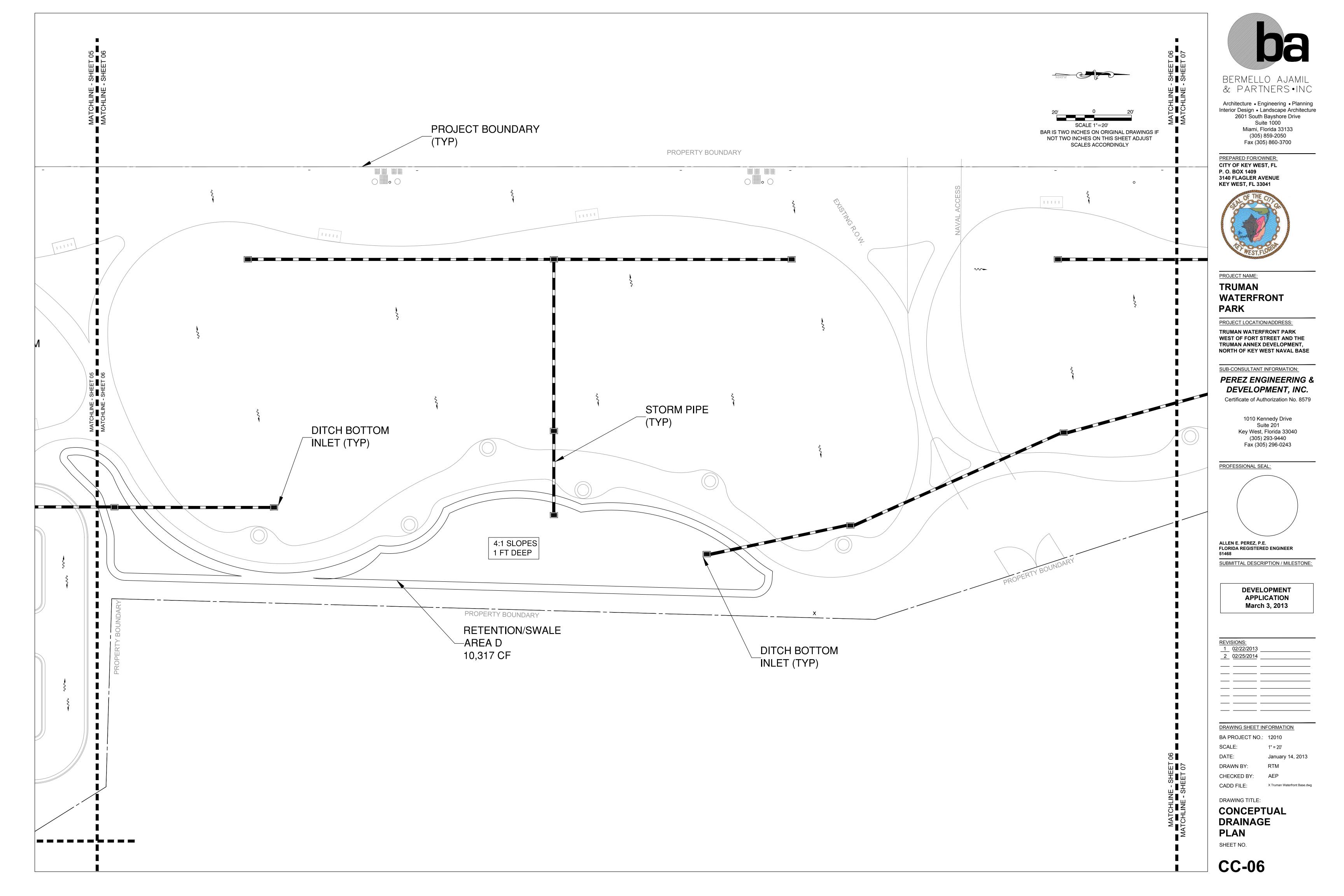
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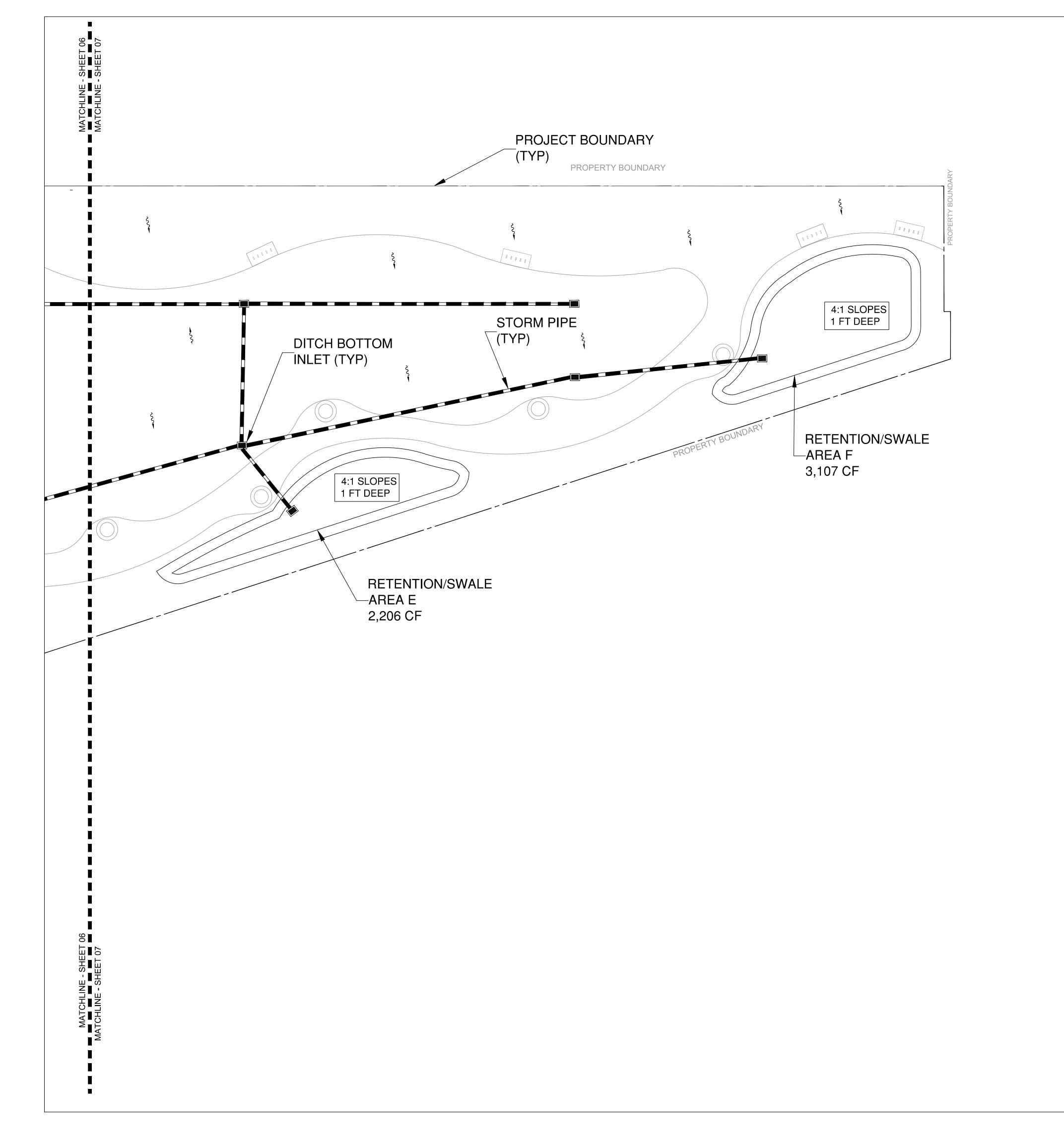
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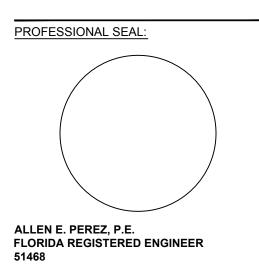
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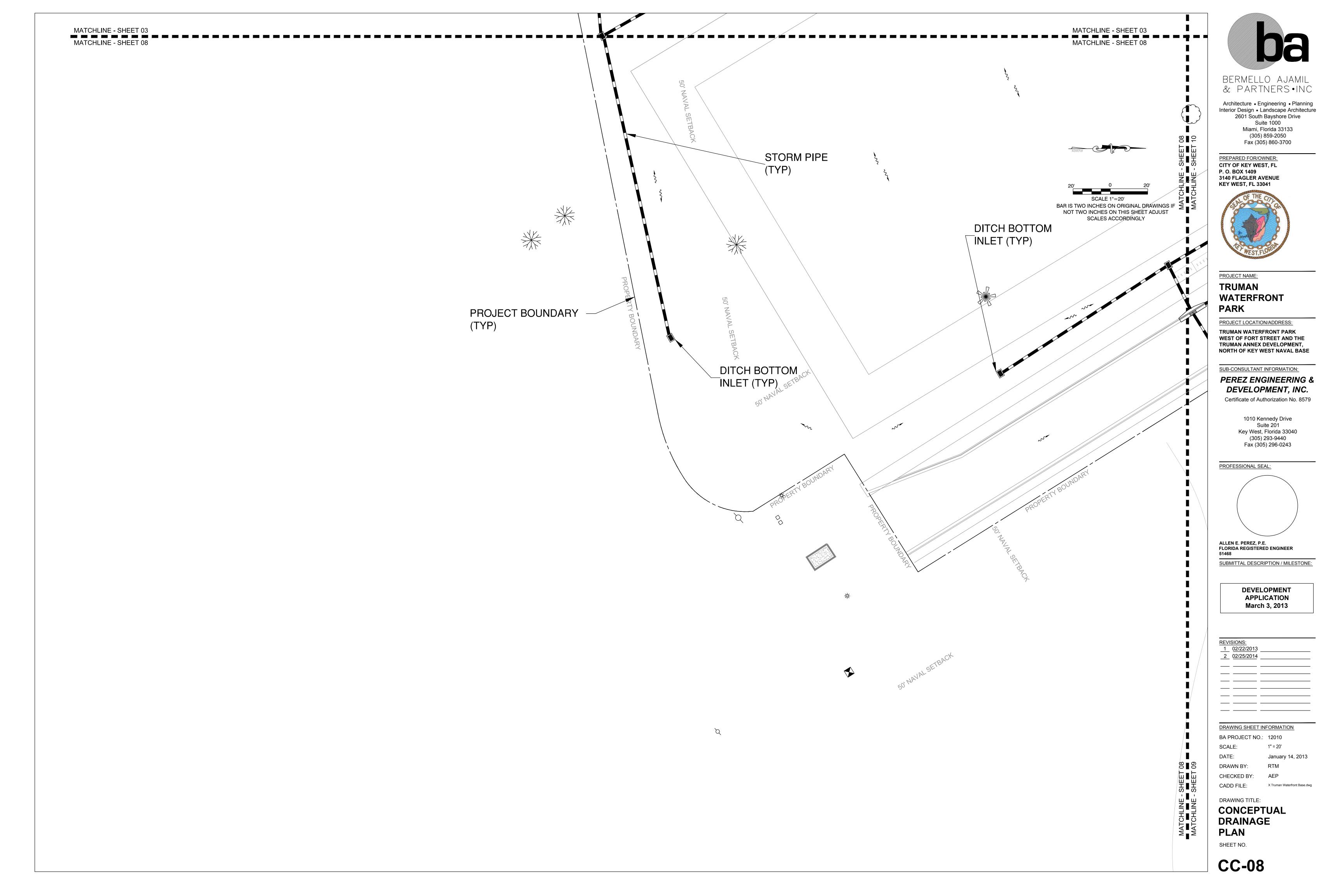
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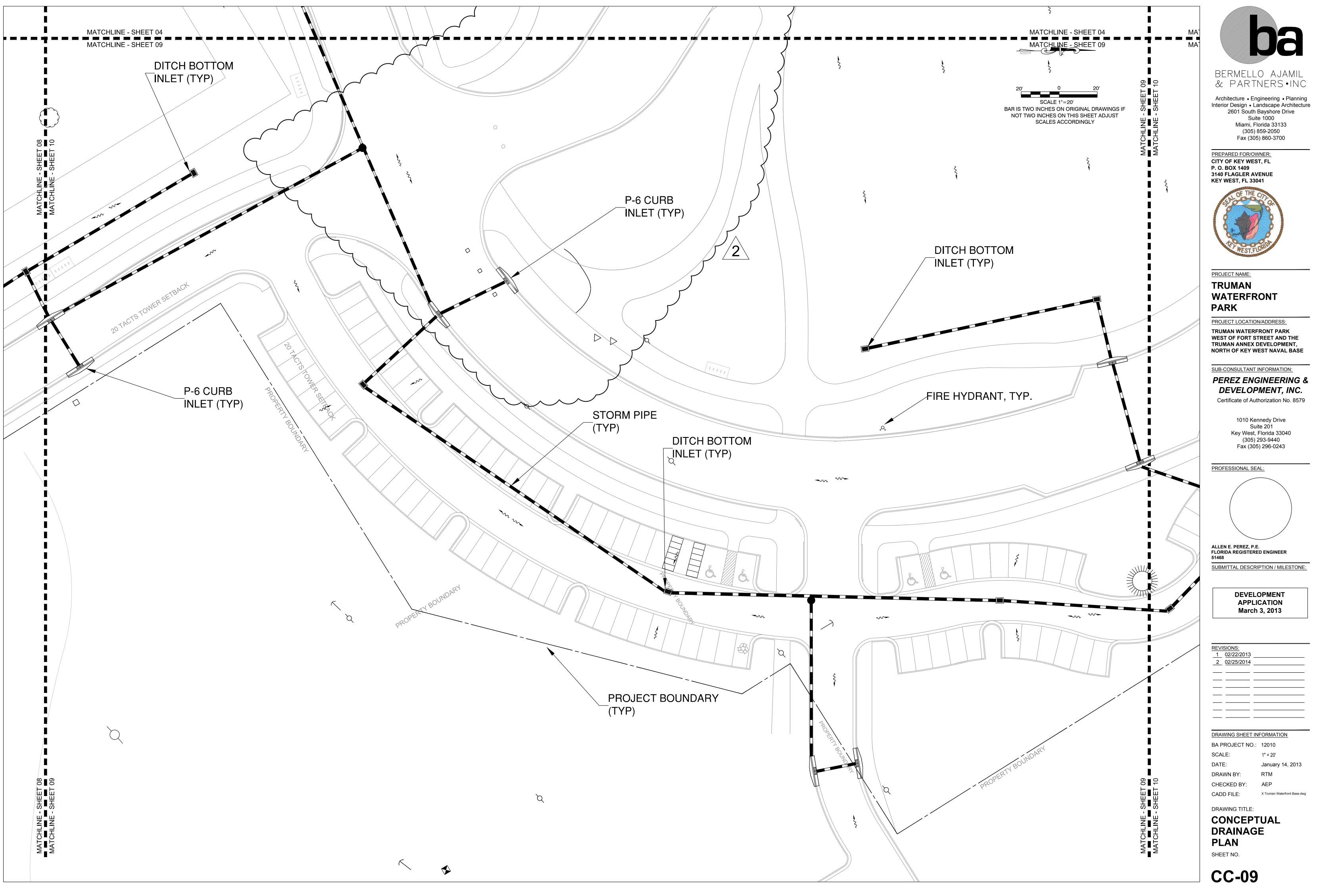
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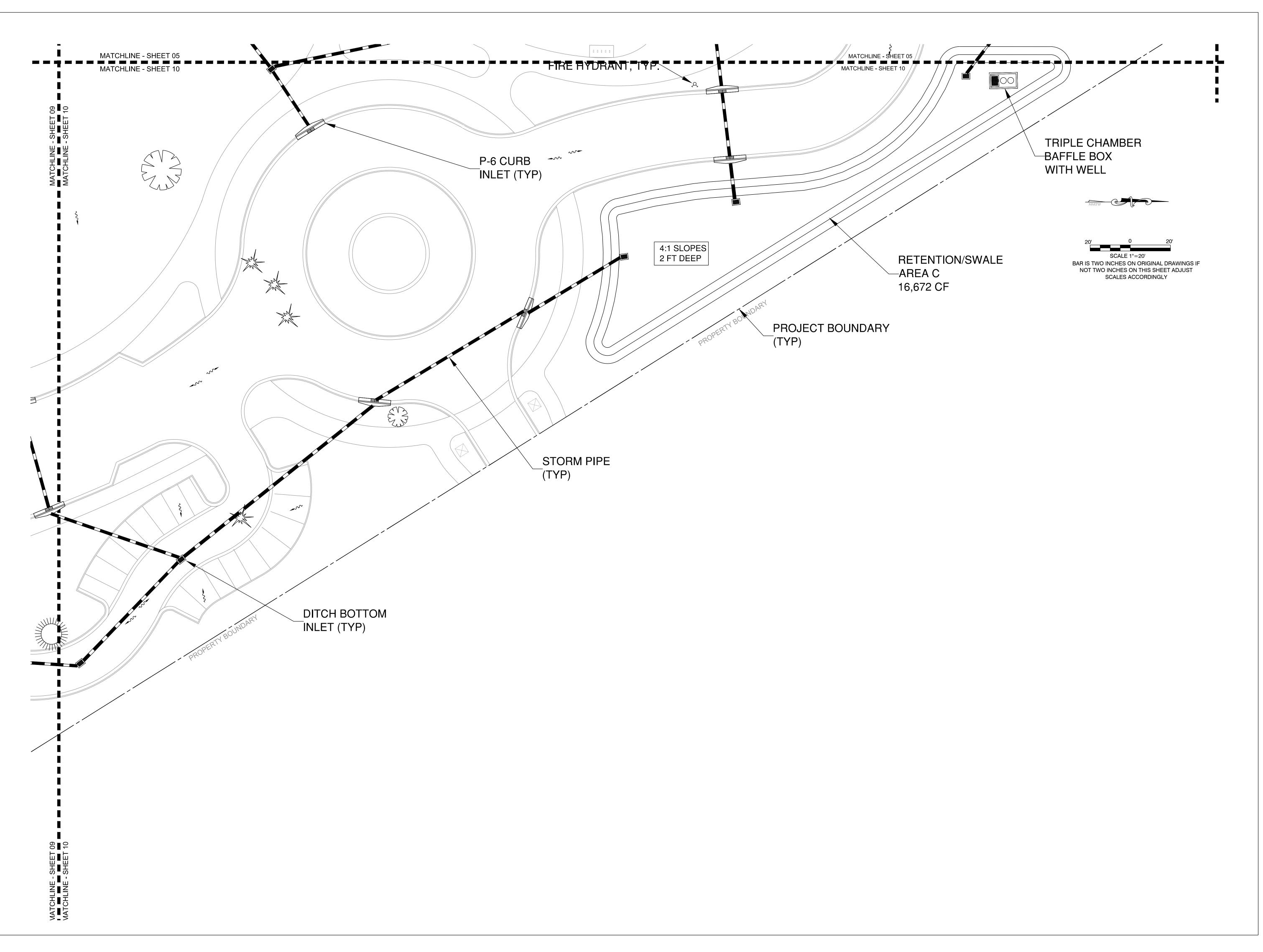
CONCEPTUAL **DRAINAGE PLAN**

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