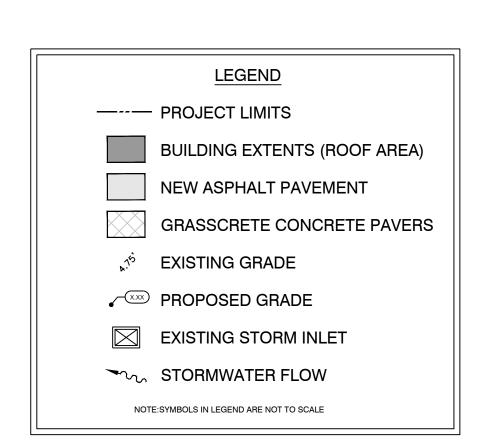


SCALE 1"=20'
BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF
NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY

Water Quantity and Water Quality Calculations					
Water Quantity - Predevelopment					
Project Area	A =	1.276	ac	55,589	S
Pervious Area		0.088	ac	3,853	S
Impervious Area		1.188	ac	51,736	S
% Impervious		93.07%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		3	ft		
Predeveloped Available Storage		4.95	in		
Soil Storage	S =	0.34	in		
$Q_{\text{pre}} = \frac{(P_{24} - 0.2S)^2}{(P_{24} + 0.8S)}$	$\mathbf{Q}_{\mathrm{pre}} =$	11.83	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/24h} =	15.10	ac-in		
Water Quantity - Postdevelopment					
Project Area	A =	1.276	ac	55,589	S
Pervious Area		0.206	ac	8,978	S
Impervious Area		1.070	ac	46,611	S
% Impervious		83.8%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		3	ft		
Developed Available Storage		4.95	in		
Soil Storage	S =	0.80	in		
$Q_{post} = (P_{24} - 0.2S)^2$	$Q_{post} =$	11.32	in		
$(P_{24} + 0.8S)$					
Runoff Volume from 25 year/ 3 day storm	V _{25yr/24h} =	14.45	ac-in		
Postdevelopment - Predevelopment					
$Q_{pre-post} = Q_{post} - Q_{pre}$	$Q_{\text{pre-post}} =$	-0.51	ìn		
Pre/Post Volume = Q _{pre-post} x A	V _{pre-post} =	-0.65	ac-in		

CONCEPTUAL DRAINAGE NOTES:

- 1. THE EXISITNG STORMWATER MANAGEMENT SYSTEM SHALL REMAIN UNALTERED, EXCEPT FOR MODIFICATIONS TO ACCOUNT FOR CONSTRUCTION OF THE BUILDING.
- 2. CONTRACTOR SHALL VERIFY THAT EXACT LOCATION OF SOURCE DISCHARGE AND SERVICE THE ENTIRE EXISITING STORMWATER SYSTEM PRIOR TO PLACING THE BUILDING INTO OPERATION
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING / RETURNING TO EXISTING CONDITION ANY PORITION OF STORMWATER SYSTEM THAT IS DAMAGED DURING CONSTRUCTION.



C _____ HEET

С

3121 FLAGLER AVE. KEY WEST, FL 33040

RE 7 1 1 2 2 3 3 5 5 6 6