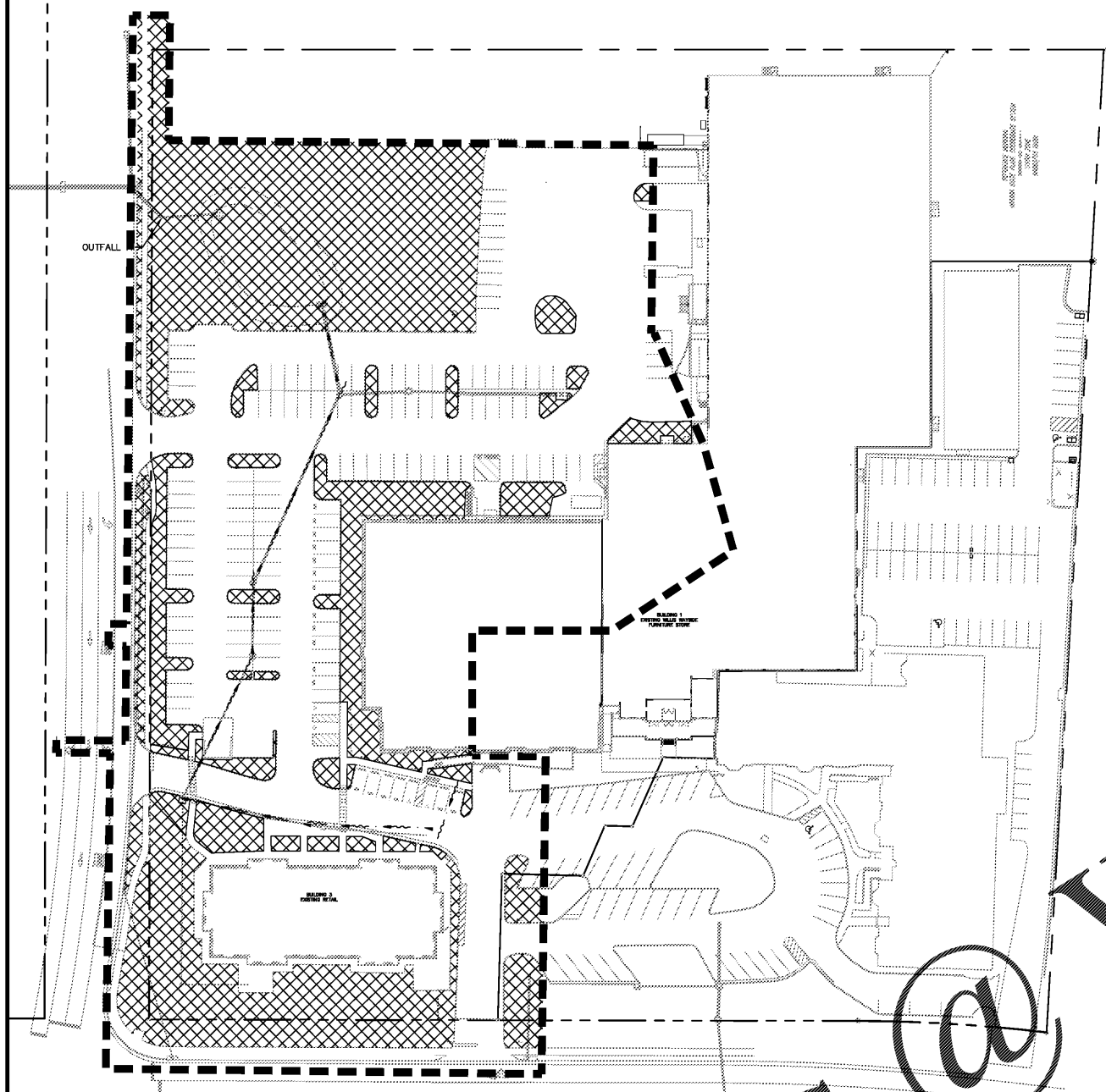
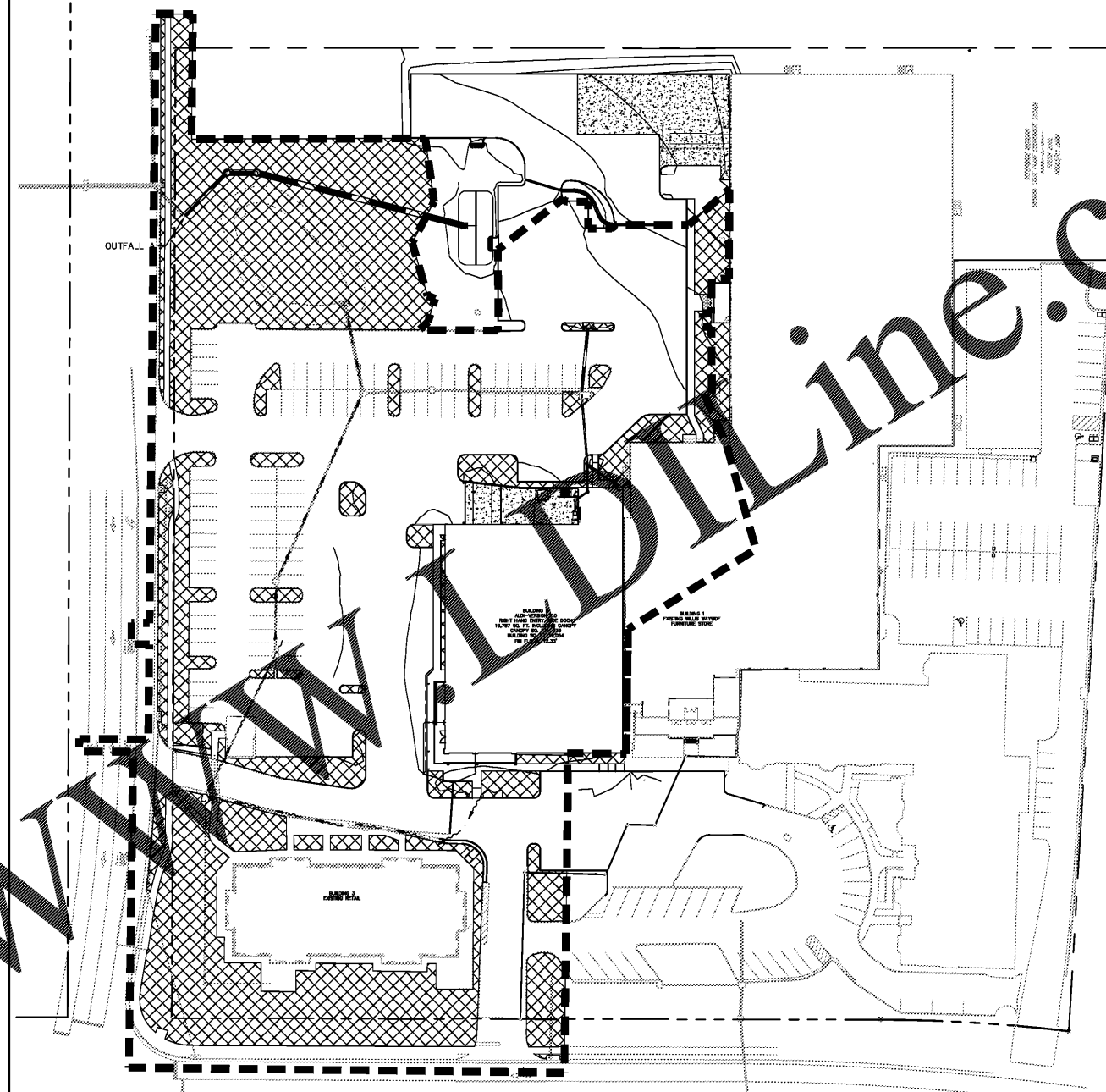


PRE-DEVELOPMENT



POST-DEVELOPMENT



Issued:	Date:
A BID SET	08/23/17
B	
C	
D	
Revisions:	Date:
1 ADDRESSED CITY COMMENTS	05/11/2017
2 ADDRESSED CITY COMMENTS	07/11/2017
3	
4	
5	



Seal	DATE
PROJECT ARCHITECT/ENGINEER	
PROJECT LEAD	DATE
PROJECT DESIGNER	DATE

Kimley»Horn
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ALDI Inc.
 Virginia Beach Blvd &
 Thalia Road
 Virginia Beach, VA
 Project Name & Location:

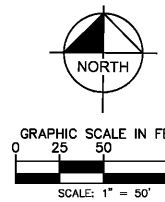
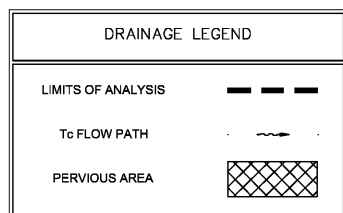
STORMWATER MANAGEMENT PLAN (PART II-C)	
Drawing Name:	Project No.
Date: 02/08/17	113180024
Type:	
Drawn By: SMP	CG-201
Scale: As Noted	Drawing No.

STORMWATER MANAGEMENT ASSUMPTIONS/NOTES:

- THE MAJORITY OF THE SITE DRAINS TO AN EXISTING INFILTRATION BASIN DESIGNED AND CONSTRUCTED WITH THE WILLIS WAYSIDE RETAIL EXPANSION PROJECT (DSC #F07-654). THIS AREA IS CONSIDERED GRANDFATHERED UNDER PART II-C OF THE VIRGINIA STORMWATER REGULATIONS AND IS SHOWN ON THIS SHEET.
 - THE REMAINDER OF THE PROJECT AREA IS CONSIDERED A REDEVELOPMENT AND DESIGNATED UNDER PART II-B OF THE VIRGINIA STORMWATER REGULATIONS AND IS SHOWN IN MORE DETAIL ON SHEET CG-202.
 - THE ENTIRE SITE DRAINS TO STORM SEWER SYSTEMS IN VIRGINIA BEACH BOULEVARD AND THE ROAD ULTIMATELY OUTFALLING INTO THALIA CREEK TO THE WEST.
- STORMWATER QUANTITY CONTROL:**
 FROM THE PREVIOUSLY APPROVED WILLIS WAYSIDE RETAIL EXPANSION PROJECT (DSC #F07-654), THE PRE-DEVELOPMENT AREA ROUTED TO THE EXISTING INFILTRATION BASIN IS 3.30 ACRES WITH 3.30 IMPERVIOUS ACRES. THE CA VALUE FOR THE EXISTING SITE IS 0.74. UNDER POST-DEVELOPMENT CONDITIONS, THE AREA DRAINING TO THE INFILTRATION BASIN IS 3.30 ACRES WITH A TOTAL IMPERVIOUS AREA OF 3.18 ACRES. THE CA VALUE FOR THE PROPOSED SITE IS 0.73 BECAUSE THERE IS A DECREASE IN TOTAL AREA AND IMPERVIOUS AREA. THE EXISTING INFILTRATION BASIN IS CONSIDERED COMPLIANT.
- STORMWATER QUALITY COMPLIANCE:**
 PER THE WILLIS WAYSIDE RETAIL EXPANSION CALCULATIONS, THE EXISTING INFILTRATION BASIN PROVIDES 8.46 LBS/YR OF PHOSPHORUS REMOVAL WITH 8.46 LBS/YR POLLUTANT REMOVAL REQUIREMENT GENERATED BY THE EXISTING SITE. THERE IS NO INCREASE IN IMPERVIOUS AREA DRAINING TO THE BASIN AND NO ADDITIONAL PHOSPHORUS IS GENERATED BY THE DEVELOPMENT DRAINING TO THE BASIN.

INFILTRATION BASIN				
PRE-DEVELOPMENT				
TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)	C	CA
4.69	3.30	1.39	0.74	3.48
POST-DEVELOPMENT				
TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)	C	CA
4.65	3.18	1.47	0.73	3.39

*Refer to Willis Wayside Retail Expansion Calculations by VHB dated September 23, 2006 for pre-development drainage area values.



DSC FILE #F07-004902-SP

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