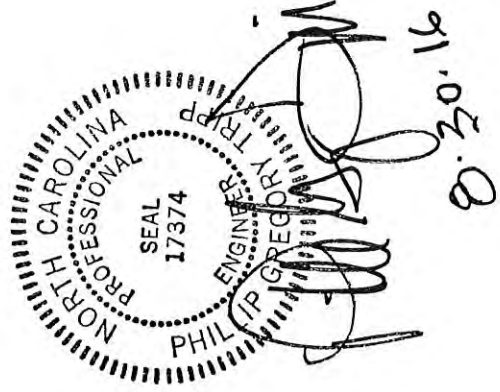


10-year

LOCATION		AREA		RUNOFF COEFF. C	RAIN INT. I (in/hr)	INCREMENTAL FLOW	TOTAL FLOW	PIPE DATA									
FROM	TO	SUB TOTAL (Acre)	TOTAL (Acre)					TYPE	N	LENGTH (ft)	S %	SIZE (in)	VEL. (fps)	Q AVAIL. (cfs)	HI INV.	LOW INV.	RIM ELEV. (ft)
CI No. 2	CI No. 1	0.61	0.61	0.80	7.23	3.53	3.53	RCP	0.013	180	0.56%	15	2.9	4.83	23.00	22.00	26.00
CI No. 1	SDMH No. 2	0.73	1.34	0.80	7.23	4.22	7.75	RCP	0.013	80	1.25%	18	4.4	11.78	22.00	21.00	26.00
SDMH No. 2	SDMH No. 1	0.00	1.34	0.80	7.23	0.00	7.75	RCP	0.013	75	1.33%	18	4.4	12.16	21.00	20.00	28.00
SDMH No. 1	Ex. CI	0.00	1.34	0.80	7.23	0.00	7.75	RCP	0.013	15	3.33%	18	4.4	19.23	20.00	19.50	26.80

50-year

CI No. 2	CI No. 1	0.61	0.61	0.80	8.87	4.33	4.33	4.33	RCP	0.013	180	0.56%	15	3.5	4.83	23.00	22.00	26.00
CI No. 1	SDMH No. 2	0.73	1.34	0.80	8.87	5.18	5.18	9.51	RCP	0.013	80	1.25%	18	5.4	11.78	22.00	21.00	26.00
SDMH No. 2	SDMH No. 1	0.00	1.34	0.80	8.87	0.00	0.00	9.51	RCP	0.013	75	1.33%	18	5.4	12.16	21.00	20.00	28.00
SDMH No. 1	Ex. CI	0.00	1.34	0.80	8.87	0.00	0.00	9.51	RCP	0.013	15	3.33%	18	5.4	19.23	20.00	19.50	26.80



Final SW Calcs
SWP 2017016
3/28/17
Rac



FOR REGISTRATION REGISTER OF DEEDS
REBECCA P. SMITH
NEW HANOVER COUNTY, NC
2008 APR 29 03:28:00 PM
BK:5307 PG:1652-1655 FEE:\$20.00

INSTRUMENT # 2008018634

HIGH DENSITY COMMERCIAL SUBDIVISIONS
DEED RESTRICTIONS & PROTECTIVE COVENANCES

RETURN TO

Norman Brailstard

High Density Commercial Subdivisions
Deed Restrictions & Protective Covenances

In accordance with Title 15 NCAC 2H.1000, the Management Regulations, deed restrictions and protective covenants are required for High Density Commercial Subdivisions where lots will be subdivided and sold and runoff will be treated in an engineered stormwater control facility. Deed restrictions and protective covenants are necessary to ensure that the development maintains a built-upon area consistent with the design criteria used to size the stormwater control facility.

I, NORMAN BRAILSFORD, acknowledge, affirm and agree by my signature below, that I will cause the following deed restrictions and covenants to be recorded prior to the sale of any lot within the project known as BURNT MILL BUSINESS PARK:

1. The following covenants are intended to ensure ongoing compliance with State Stormwater Management Permit Number SW8 950107, as issued by the Division of Water Quality under NCAC 2H.1000.
2. The State of North Carolina is made a beneficiary of these covenants to the extent necessary to maintain compliance with the stormwater management permit.
3. These covenants are to run with the land and be binding on all persons and parties claiming under them.
4. The covenants pertaining to stormwater may not be altered or rescinded without the express written consent of the State of North Carolina, Division of Water Quality.
5. Alteration of the drainage as shown on the approved plan may not take place without the concurrence of the Division of Water Quality.
6. The maximum allowable built-upon area per lot is _____ square feet. (OR, if the proposed built-upon area per lot will vary, please use the following format & language (in bold):

The maximum built-upon area per lot, in square feet, is as listed below:

Lot # BUA	Lot # BUA	Lot # BUA	Lot # BUA
(SEE ATTACHED TABLE)	_____	_____	_____

This allotted amount includes any built-upon area constructed within the lot property boundaries, and that portion of the right-of-way between the front lot line and the edge of the pavement. Built upon area includes, but is not limited to, structures, asphalt, concrete, gravel, brick, stone, slate, coquina and parking areas, but does not include raised, open wood decking, or the water surface of swimming pools.

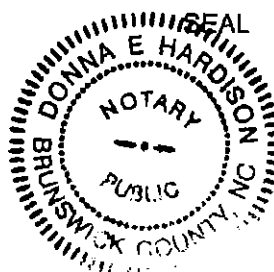
7. All runoff from the built-upon areas on the lot must drain into the permitted system. This may be accomplished through a variety of means including roof drain gutters which drain to the street, grading the lot to drain toward the street, or grading perimeter swales to collect the lot runoff and directing them into a component of the stormwater collection system. Lots that will naturally drain into the system are not required to provide these additional measures.
8. The owner of each lot, whose ownership is not retained by the permittee, is required to submit a separate stormwater permit application to the Division of Water Quality and receive a permit prior to construction.

Signature: *Norman Brailsford* Date: 4/29/08

I, Donna E. Hardison, a Notary Public in the State of NC, County of Brunswick, do hereby certify that Norman Brailsford personally appeared before me this the 29 day of April, 2008, and acknowledge the due execution of the foregoing instrument. Witness my hand and official seal,

Signature: *Donna E. Hardison*

My Commission expires 12/20/09



TO BE RECORDED ALONG WITH ATTACHED TABLE

Lots draining to pond permitted under SW8 950107
Burnt Mill Business Park

Lot Name	Lot Area		Built Upon Area (BUA)
	Acres	Sq. Ft.	Sq. Ft.
Lot 12R (3205 Randall Parkway)	1.80	78,500	60,400
Lot 11R (3240 Burnt Mill Drive)	2.47	107,600	76,000
Lot 9 (3311 Burnt Mill Drive)	1.43	62,300	47,500
Lot 22 (3305 Jaeckle Drive)	2.09	91,100	63,400
Lot 20 (3340 Jaeckle Drive)	3.74	163,000	77,000
Lot 8 (Austin Property)	2.02	88,000	66,000 * Assumed
Lot 19	2.55	111,100	83,300
Lot 21	2.10	91,500	66,600
Lot 10 (Pond Site)	1.55	67,600	-
Rights-of-Way/Sidewalk	3.01	131,200	99,900
		-	
Subtotal	22.76	991,500	642,100
Future			62,400
Total Allowable Impervious permitted under SW8 950107			704,500

***Stormwater Drainage System & Erosion Control
Narrative***

**Burnt Mill Business Park Lot 22
3333 Jaeckle Drive, Wilmington, NC**

The Burnt Mill Business Park (BMBP) Lot 22 project is located on Jaeckle Drive in Wilmington, NC, New Hanover County, parcel ID # R05505-004-026-000. BMBP Lot 22 is being developed by Abinto Corporation. The site is approximately 2.09 acres of land, of which 2.2 acres is proposed for disturbance. The BMBP Lot 22 facility will be serviced by CFPWA for public water and sewer systems. No wetlands exist on the project site.

Abinto Corporation is proposing to build an 11,730 sf 1-story office building and a 6,250 sf 1-story building to include 1,500 sf restaurant with the remaining square footage being office, parking, sidewalks and landscape areas. Proposed impervious area for this project is 63,400 sf, which includes on-site, off-site and future BUA. Total impervious area within the property is 62,570 sf or 68.6% of the total project area.

The proposed BMBP Lot 22 project is located within the Burnt Mill Business Park subdivision and is permitted to drain to an Offsite Stormwater System. The existing NCDENR stormwater permit number for Burnt Mill Business Park is SW8 950107. BMBP Lot 22 was previously permitted with both the City and State stormwater. The existing City of Wilmington stormwater permit number is 2008023 and the existing NCDENR stormwater permit number is SW8 080509. We will be modifying the aforementioned existing stormwater permits to match the proposed improvements. The proposed stormwater system will tie into the existing piped stormwater system that discharges into the existing offsite stormwater pond. The outflow from the existing pond will drain to Burnt Mill Creek; classification C-Sw, index No. 19-74-63-2), in the Cape Fear River Basin. All built upon areas (BUA's) will be collected and routed through the existing pipe system and into the existing off-site wet detention basin.

Prior to clearing of the site, one construction entrance and temporary silt fence will be installed. After clearing of the project site, the parking areas and building locations will then be graded. Underground utilities, including the stormwater drainage system will be installed and inlet protection put into place. The proposed buildings will be constructed followed by paving, sidewalk installation, final site grading, stabilization of the site and landscaping. Temporary erosion control measures will remain in-place until such time as areas are stabilized. Permanent measures include permanent stands of grass. Specific measures and directions to the contractor are noted on the plans. Please refer to Sheet C4 for detailed erosion control measures and construction sequence.

RECEIVED

MAR 14 2017

ENGINEERING