

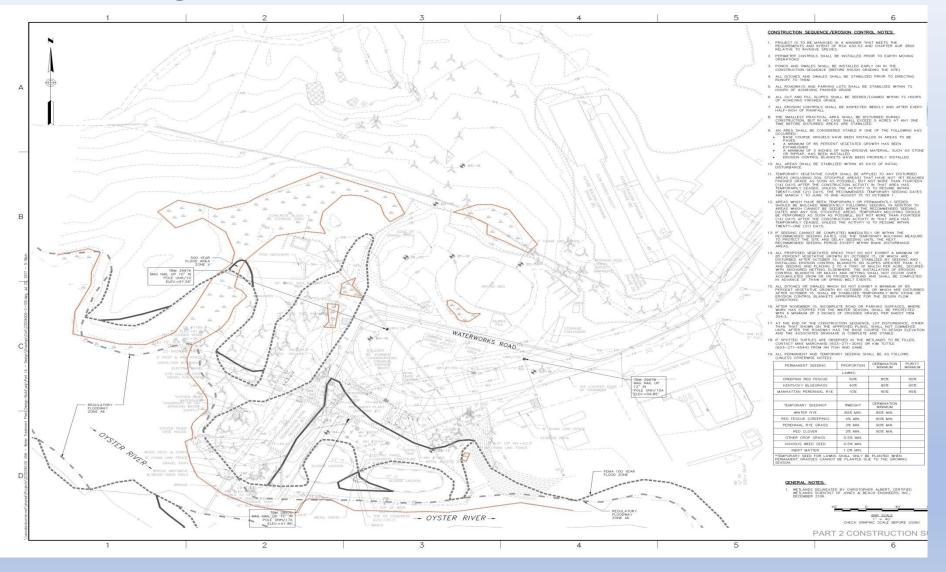
PERMITS

- Alteration of Terrain
 - Wetlands
 - Shoreland

References

- NHDES Stormwater Manual
- Wetlands Best Management Practice Techniques for Avoidance And Minimization
- UMRLAC Permit Application Review Guidance June 2017
- AOT Permit Check List

Existing Conditions Plan



Review Items Resource areas & Existing Infrastructure

Existing Conditions Plan



Review Items
Wetlands
Flood plains
Existing Buildings &
Utilities

Proposed Layout Plan



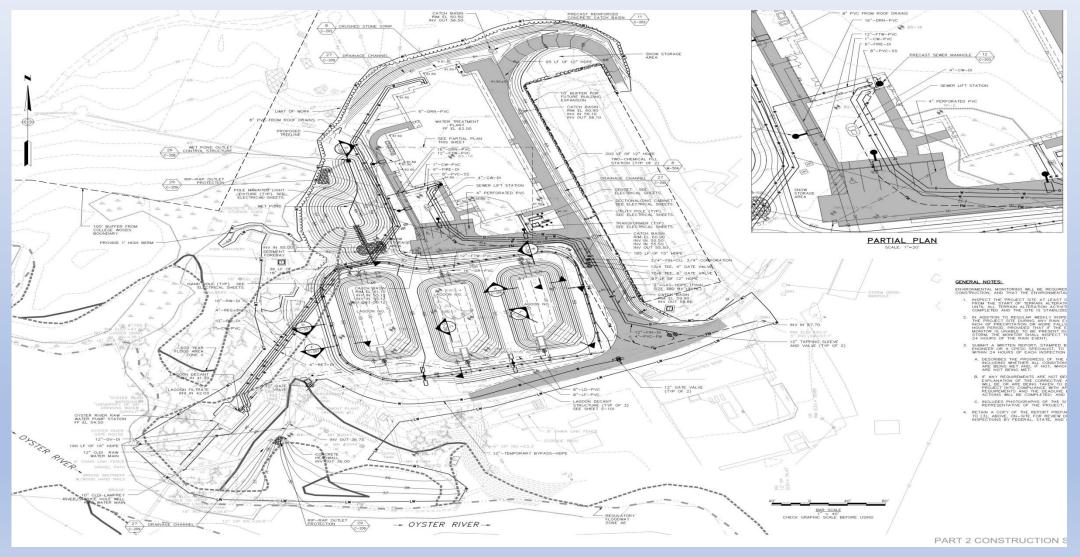
Potential
Impacts
Wetlands
Flood Plains

Proposed Layout Plan

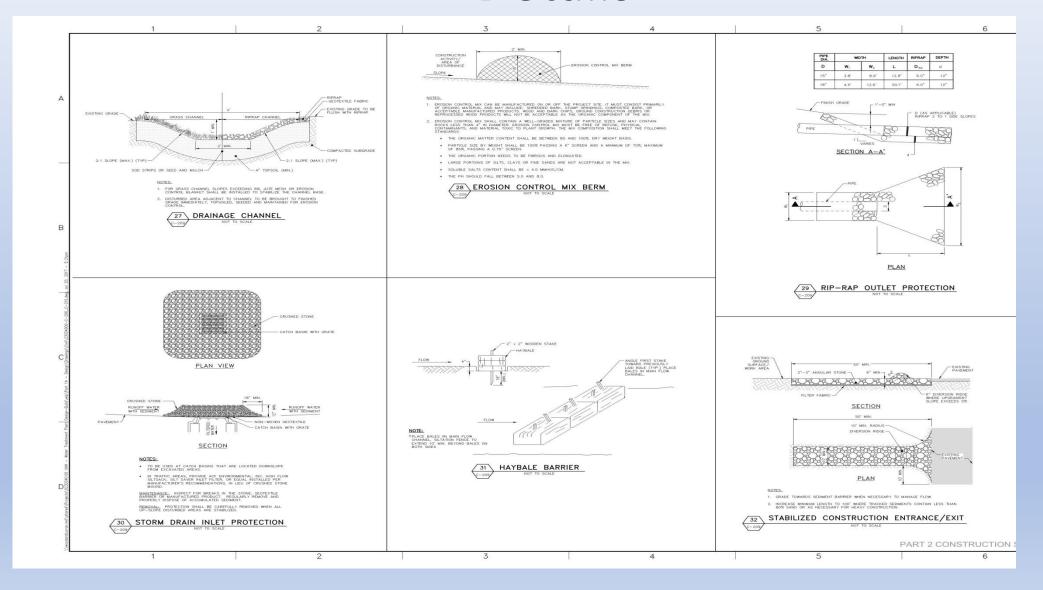


Potential
Impacts
Wetlands
Flood Plains

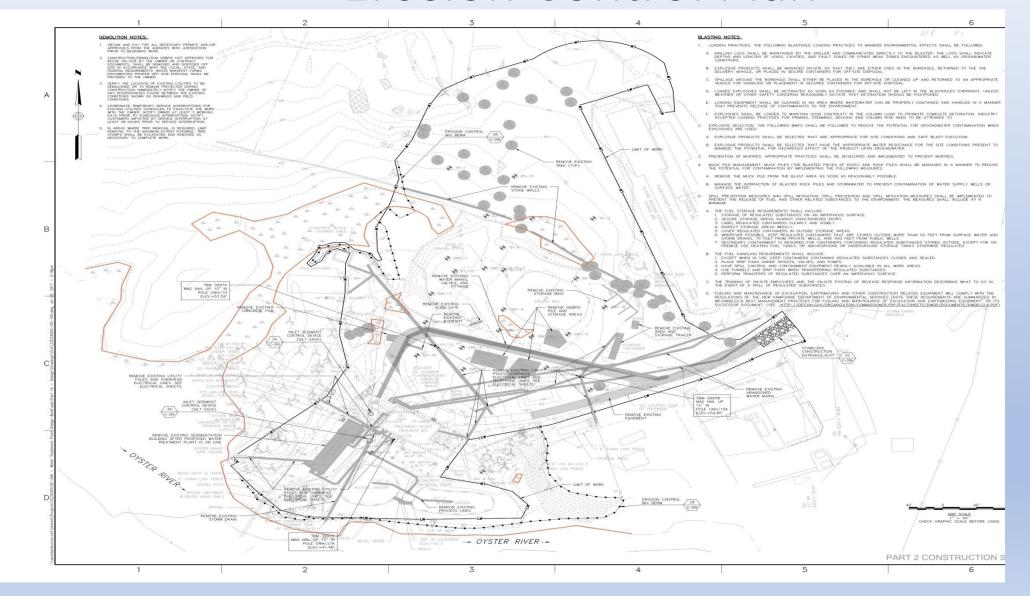
Proposed Grading Plan



Details



Erosion Control Plan



Stormwater Management

- Pre vs Post
 - Change in areas
 - Change in soil type

Discharge Point	Sub Areas	Area (Acres)	T _C (min.)	CN (weighted)
Oyster River (South of project site – DP1)	To Wetlands (1S)	3.965	49.5	75
	Middle Section (2S)	5.452	39.3	74
	Eastern Section (3S)	2.758	25.3	81

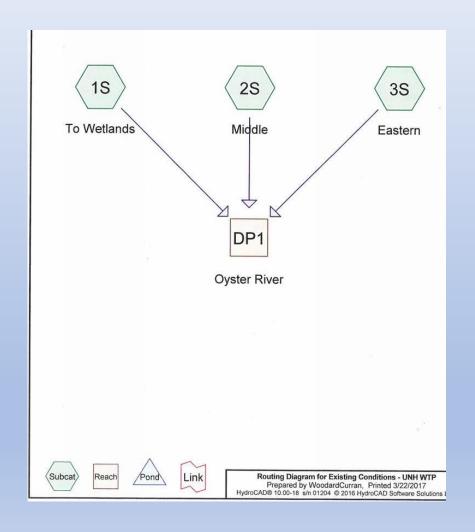
	Condition	Peak Flow for Given Storms (cfs)				
Discharge Point		1-year	2-year	10-year	50-year	100-year
Oyster River	Existing	4.61	6.95	15.23	29.27	37.66
	Proposed	4.08	6.12	13.61	27.54	35.32
	△ Discharge	-0.53	-0.83	-1.62	-1.73	-2.34

Discharge Point	Sub Areas	Area (Acres)	T _C (mins.)	CN
	To Wetlands (1S)	4.167	49.5	75
Oyster River	Woods (2S)	0.524	19.2	71
	Eastern Section (3S)	2.630	37.8	82
South of Project Site)	Middle Section (4S)	3.463	27.4	63
(DP1)	Building (5S)	0.481	6.0	98
	North CB (6S)	0.265	6.0	86
	Central CB (7S)	0.370	6.0	85
	Parking/Front (8S)	0.180	6.0	87
	South CB (9S)	0.094	6.0	88
		Total Weighted CN		74

Table 3-1: Proposed Design - Drainage Area Characteristics Summary

Stormwater Management

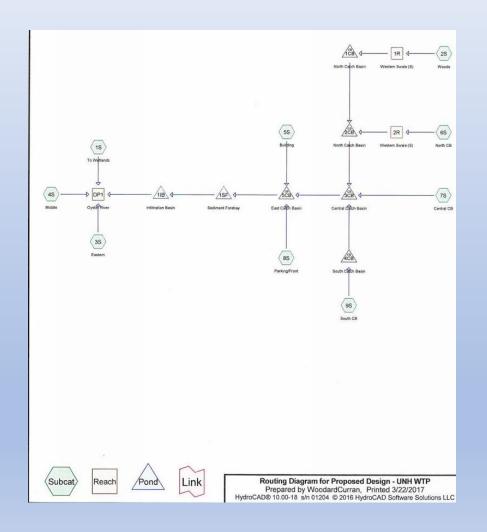
• Pre HYDRO-CAD



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		Area Listing (all nodes)
Area (acres)	CN	Description (subcatchment-numbers)
0.445	98	Buildings (1S, 2S, 3S)
0.144	91	Drying Bed (2S)
5.108	70	Forest (1S, 2S, 3S)
4.479	74	Grass (1S, 2S, 3S)
0.380	89	Gravel (1S, 2S)
0.153	1	Lagoons - Does not produce runoff (2S)
0.841	98	Pavement (2S, 3S)
0.625	98	Wetlands (1S, 2S)
12.175	76	TOTAL AREA

Stormwater Management

Proposed HYDRO-CAD



pared by Wo roCAD® 10.00		Curran 01204 © 2016 HydroCAD Software Solutions LLC	Printed 3/22/2017 Page 2
		Area Listing (all nodes)	
Area (acres)	CN	Description (subcatchment-numbers)	
0.183	89	(1S, 4S, 6S, 7S, 8S)	
1.848	98	(1S, 3S, 4S, 6S, 7S, 8S, 9S)	
1.842	70	(1S, 2S, 3S, 4S)	
7.215	74	(1S, 2S, 3S, 4S, 6S, 7S, 8S, 9S)	
0.605	1	(4S)	
0.481	98	Roofs, HSG C (5S)	
12.174	75	TOTAL AREA	

Questions?