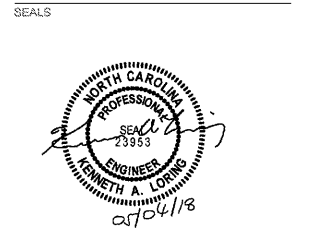


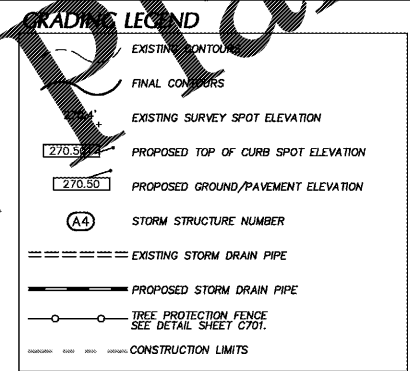
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SUBMITTAL
 4 MAY 2018
 CONSTRUCTION DOCUMENTS

- GRADING NOTES**
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DEMONDED AREA = 7.13 AC.
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
 - ALL STORM DRAIN PIPES SHALL BE INSTALLED WITH STORM FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
 - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER CONSTRUCTION AND AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE, UNLESS NOTED OTHERWISE. ROOF DRAINS SHALL BE DIP WHEN COVER IS LESS THAN 12 INCHES. PROVIDE ALL NECESSARY FITTINGS REQUIRED FOR INSTALLATION.
 - MAINTAIN MINIMUM 2% SLOPE WITHIN 5' FROM ALL ENTRANCES.



DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	UP STRM	DN STRM	PIPE DIA.	PIPE SLOPE	PIPE LENGTH (FT.)	PIPE MATR.	UPPER INV. (FT.)	LOWER INV. (FT.)	TOP ELEV. (FT.)	DEPTH (FT.)	UPSTREAM STRUCTURE DATA	NOTES
A1	A2	0.55%	18	208	RCP	26.95	26.30	30.55	3.60	CS		
A2	A3	0.55%	18	321	RCP	25.70	23.30	30.55	4.86	CS		
A3	A4	1.00%	18	30	RCP	23.80	23.50	28.70	4.90	CS	4	
A30	A3	1.05%	15	88	RCP	27.40	26.80	31.00	3.60	CS		
B1	B2	0.55%	15	182	RCP	27.70	26.70	31.30	3.60	CS		
B2	B3	0.81%	15	111	RCP	26.80	26.80	32.30	5.70	DI		
B3	B4	0.72%	15	83	RCP	25.80	25.20	31.50	5.70	CS		
B4	B5	1.04%	18	53	RCP	25.10	24.55	28.50	4.40	CS		
B5	B6	1.11%	18	18	RCP	24.45	24.25	28.80	4.45	CS		
B6	B7	1.02%	18	64	RCP	24.15	23.50	28.80	4.65	CS	4	
B40	B4	1.00%	12	70	RCP	26.40	26.70	28.80	3.50	CS		
C1	C2	5.17%	24	60	RCP	26.00	23.90	29.30	3.00	FES		
C2	C3	0.55%	24	194	RCP	22.80	22.25	26.55	7.06	MH		
C3	C4	0.81%	24	132	RCP	22.15	21.95	28.15	6.90	MH		
C4	C5	0.63%	24	16	RCP	21.25	21.15	26.80	5.55	OTHER	6	
C5	E1/C1	1.85%	24	27	RCP	21.12	20.82	26.07	4.95	CI		
D1	D2	0.62%	30	24	RCP	27.00	26.85	31.00	4.00	FES		
D2	D3	0.50%	30	240	RCP	26.75	25.55	32.50	5.75	MH		
D3	D4	0.63%	30	48	RCP	25.45	25.15	31.50	6.00	MH	4	
E1	E2	3.60%	15	20	RCP	28.20	26.10	30.30	3.80	FES	4	
F1	F2	3.60%	15	20	RCP	28.20	26.50	30.00	3.80	FES	4	

LEGEND

- CB CATCH BASIN
- DI DROP INLET
- FES FLARED END SECTION (CONC.)
- RCP REINFORCED CONC. PIPE (CL. 11)
- A2 STRUCTURE NUMBER

NOTES

- TOP ELEV. IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRATE FOR DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.
- ALL FES INLETS & OUTLETS SHALL BE RCP.
- ALL PIPE LENGTHS LISTED ARE HORIZONTAL LENGTHS BETWEEN CENTER OF GRATES, MANHOLES, OR TO THE END OF THE FES.
- DOWNSTREAM STRUCTURE IS A FES.
- STRUCTURE IS AN OPEN THROAT INLET.

APPROVED CONSTRUCTION PLAN

NAME: _____ DATE: _____

PLANNING _____

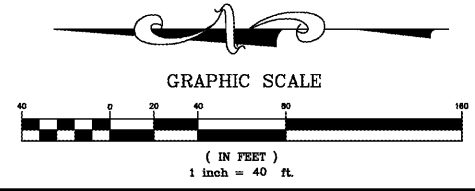
TRAFFIC _____

FIRE _____

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____

Signed: _____



GRADING PLAN
C301

DESIGN: ZRP
 DRAWN: YA, DL
 REVIEW: ZRP, KAL

CON 5938
 CLH 16-161