

COOPER ACADEMY A & R

PROJECT TITLE

"CLIENT'S PROJECT" # - XXX



- THIS DRAWING IS THE PROPERTY OF BOOMERANG DESIGN P.A. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.
- MATERIALS, DIMENSIONS AND ALL OTHER CONDITIONS WHICH ARE NOT OTHERWISE DEFINED ON THIS DRAWING SHALL BE CONTROLLED AS HAVING THE SAME MEANING AS SIMILAR INDICATED CONDITIONS WHICH ARE MORE FULLY DEFINED ELSEWHERE ON THIS PROJECT OR OTHER DRAWINGS OF THIS PROJECT.
- DO NOT SCALE OFF DIMENSIONS.

REVISIONS	NO.	DATE	DESCRIPTION
	1	2/20/24	ADDENDUM #1

BID DOCUMENTS

PROJECT PHASE

2307

BOOMERANG DESIGN PROJECT NUMBER

02.07.24

DRAWING RELEASE DATE

GRADING PLAN

SHEET TITLE

C301

SHEET



DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.		PIPE	PIPE	PIPE	PIPE	UPPER	LOWER	UPSTREAM STRUCTURE DATA		TYPE	NOTES
UP STRM	DN STRM	DI	SLOPE	DN (IN)	LENGTH (FT)	MATL	INV. (FT)	INV. (FT)	TOP ELEV. (FT)		
A1	A2	0.82%	18	74	RCP	296.25	296.35	301.50	5.00	CB	(1)
A2	A3	2.89%	18	79	RCP	296.50	284.00	301.50	5.25	CB	(1)
B1	B2	4.12%	15	34	RCP	316.80	317.40	323.50	4.40	DI	(1)
B2	B3	8.18%	15	34	RCP	317.30	315.20	321.75	4.45	DI	
B3	B4	2.04%	15	34	RCP	315.10	314.00	319.50	4.40	MH	
B4	B5	0.55%	15	73	RCP	311.30	310.90	317.00	5.70	DI	
B5	B6	1.02%	15	49	RCP	310.80	310.30	315.90	5.10	DI	
B6	B7	7.02%	15	100	RCP	310.20	303.20	315.80	5.60	DI	
B7	B8	3.53%	15	30	RCP	303.10	301.95	308.00	6.90	DI	
B8	B9	5.71%	15	35	RCP	302.00	298.00	306.50	5.50	DI	(1)
B10	B5	0.55%	15	17	RCP	311.50	311.40	315.90	4.40	DI	
B11	B8	0.82%	15	32	RCP	300.30	300.10	305.90	5.60	CB	(1)
C1	C2	0.61%	15	41	RCP	296.10	295.85	300.50	4.40	DI	(1)
C2	C3	0.56%	18	102	RCP	295.75	295.20	301.00	5.25	MH	
C3	C4	0.56%	18	27	RCP	295.10	294.95	300.50	5.40	MH	
D1	D2	2.13%	18	94	RCP	295.00	293.00	300.50	5.50	DI	(1)
E1	E2	9.57%	18	115	RCP	307.00	296.00	312.00	5.00	DI	

LEGEND
MH MANHOLE, SEE DETAIL SHEET C308.
DI DROP INLET, SEE DETAIL SHEET C308.
CB OPEN-THROAT CATCH BASIN, SEE DETAIL SHEET C308.
FES PRECAST FLARED END SECTION
A2 STRUCTURE ID NUMBER

NOTES
1. TOP ELEVATION IS TOP OF RM FOR MANHOLES, TOP OF GRADE FOR DROP INLETS, TOP OF GUTTER FOR CATCH BASINS, AND FINISH GRADE FOR CLEANOUTS.
2. ALL FES INLETS & OUTLETS SHALL BE RCP.
3. GUTTER SHALL BE DERESSED A TOTAL OF 8" FROM THE TOP OF CATCH BASIN.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF CLAYTON AND NCDOT STANDARDS AND SPECIFICATIONS.
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DOTTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
- TOTAL DEMOLISHED AREA = 1.4 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 OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).
- ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
- EXISTING VEGETATION SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE.
- ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR 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.
- THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
- CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER ROAD STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

GRADING LEGEND

EXISTING CONTOURS	FINAL CONTOURS	EXISTING SURVEY SPOT ELEVATION	PROPOSED TOP OF CURB SPOT ELEVATION	PROPOSED GROUND/PAVEMENT ELEVATION	PROPOSED FINISHED GRADE AT TOP OF WALL ELEVATION	PROPOSED FINISHED GRADE AT BOTTOM OF WALL ELEVATION	STORM STRUCTURE NUMBER	EXISTING STORM DRAIN PIPE	PROPOSED STORM DRAIN PIPE	PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.	PROPOSED ROOF DRAIN
270.4'	270.50'	270.50'	270.50'	270.50'	270.50'	270.50'	A4	FD	RD		

