R & L CONSTRUCTION SERVICES

1701 W. HILLSBORO BLVD. #208 PO BOX 162
DEERFIELD BEACH, FL 33442 MONTICELLO, NY 12701
TEL. (954)360-9496 FAX (954) 360-9326

PROJECT: HOPEWELL HIGH SCHOOL
TITUSVILLE, NJ
MAY 2017
R & L #12518

MASTER RECAP. SHEET

SHEET NO. 1 **OF NO. 5**

NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
	SITE CLEARING AND EARTHWORK						
1	visit site area to determine existing conditions allow		ls				
2	protection work (from site visit) allow		ls				
3	removal work						
	pavements						
	drives, parking, courts, etc	52050	sf				
	sawcut	1305	lf				
	at new utilities	1450	sf				
	sawcut	500	lf				
	at new curbs (2'-0 strip)						
	at parking lots (175 lf)	350	sf				
	at roads (40 lf)	80	sf				
	sawcut	220	lf				
	curbs	1445	lf				
	concrete walks, patios, pads, etc	14680	sf				
	brick paver walks (salvage brick for reuse)	304	sf				
	raised batting cage area	990	sf				
	perimeter railroad tie walls	150	lf				
	shed (150 sf)	1	ea				
	signs	1	ea				
	signs (salvage for reuse)	1	ea				
	school sign	1	ea				
	flagpole and base	1	ea				
	light pole and base	7	ea				
	fencing (at courts)	510	lf				
	trees	8	ea				
	grind off thermoplastic markings and apply sealcoat	23300	sf				
	basketball hoops	4	ea				
	swing gate (+/-16'-0 long)	1	ea				

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SHEET NO. 2 **OF NO. 5**

NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
	SITE CLEARING AND EARTHWORK (CONT.)						
3	removal work (cont.)						
	storm drainage						
	piping						
	21" RCP	210	lf				
	12" and 15" RCP	330	lf				
	6" pvc	40	lf				
	cut and seal ends of 21" RCP	2	ea				
	fill existing 21" RCP with flowall fill (62 lf)	6	cy				
	sewer						
	piping	105	lf				
	water						
	piping	330	lf				
	cut pipes for future connections	3	ea				
	cut and cap pipe	1	ea				
	NOTE: removals noted to see plumbing plans are not included						
4	engineering and layout work allow		ls				
5	clear and grub site area (3.2 ac) allow		ls				
6	strip and stockpile topsoil						
	assume 6" 1.6 ac	1289	cy				
7	site excavation work						
	cut work	1193	cy				
	fill work	1419	cy				
	graded area	2.6	ac				

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MASTER RECAP. SHEET

SHEET NO. 3 **OF NO. 5**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE CLEARING AND EARTHWORK (CONT.)						
	8	building excavation work						
		trenching and footing	965	cy				
		backfill work						
		exterior	390	cy				
		interior	392	cy				
		interior (to bring to subslab elevation)	1419	cy				
		graded area	22000	sf				
	9	porous fill below slabs on grade						
		6" thick (labor and materials) 22445 sf	416	cy				
	10	excavation for underground detention system						
		trenching work	1003	cy				
		backfill work						
		clean stone (1 1/2" - 2") (labor and material)	425	cy				
		cleanfill	395	cy				
		filter fabric (+10%)	8614	sf				
	11	excavation for storm drainage						
		trenching work	1340	cy				
		backfill work						
		bedding material (3/4" clean stone) (labor and material)	194	cy				
		cleanfill	1046	cy				
		trench box sheeting						
		6'-0 wide x 8'-0 high	30	lf				

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MASTER RECAP. SHEET

SHEET NO. 4 **OF NO. 5**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE CLEARING AND EARTHWORK (CONT.)						
	12	excavation for sewer						
		trenching work	483	cy				
		backfill work						
		bedding material (3/4" clean stone) (labor and material)	50	cy				
		cleanfill	421	cy				
		concrete encasement (62 lf) forms	290	sf				
		conc	13	cy				
	13	excavation for water						
		trenching work	387	cy				
		backfill work						
		bedding material (3/4" clean stone) (labor and material)	48	cy				
		cleanfill	337	cy				
	14	subgrade reconstruction (allowance of 500 cy, detail 6/C-7.0)						
		excavate subgrade and remove from site	500	cy				
		replace subgrade with 3/4" clean stone (labor and material)	500	cy				
		filter fabric (+10%)	14850	sf				
		NOTE: quantities based on 13500 sf, 12" deep						
	15	respread topsoil and seeded area						
		6" topsoil 1.3 ac	1048	cy				
		seeded area	1.3	ac				
	16	hand labor allow		ls				
	17	compaction work and testing allow		ls				
	18	pumping and dewatering allow		ls				
	19	dust control allow		ls				

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SHEET NO. 5 **OF NO. 5**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE CLEARING AND EARTHWORK (CONT.)						
	20	remove excess material from site						
		topsoil	241	cy				
	21	material required from outside source						
		cleanfill	448	cy				
		NOTES:						
	1	all excavated materials assumed to be clean fill and suitable as fill at buildings						
	2	quantities do not include factors for compaction or swell						

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SHEET NO. 1 **OF NO. 1**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SECTION 02220 EROSION CONTROL AND SEDIMENT						
	1	silt fence	1030	lf				
	2	inlet protection	20	ea				
	3	wheel cleaning blanket						
		12" thick, 1 1/2" clean stone 4500 sf	167	cy				

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MASTER RECAP. SHEET

SHEET NO. 1 **OF NO. 4**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMPROVEMENTS						
	1	pavement						
		a) heavy duty						
		2" HMA surface course						
		4" HMA stabilized base course						
		6" dense grade aggregate	1352	sy				
		b) standard duty						
		1 1/2" HMA surface course						
		3" HMA stabilized base course						
		6" dense grade aggregate						
		at parking, drives, etc	3819	sy				
		at small infill areas	28	sy				
		c) patch pavement						
		at new utilities (parking lots)						
		1 1/2" HMA surface course	110	sy				
		3" HMA stabilized base course	161	sy				
		6" dense grade aggregate	161	sy				
		at new curbs (2'-0 strip)						
		at roads (72 lf)	16	sy				
		at parking lots (152 lf)	34	sy				
		d) overlay and milling						
		2" surface overlay and tack coat	3868	sy				
		mill existing pavement	34500	sf				
		crack repair (per site visit) allow		ls				
	2	concrete walks, pads, etc						
		a) 4" conc						
		4" clean stone						
		finished area						
		scored area	7800	sf				
		expansion joint filler (1/2" x 4")	1260	lf				
		detectable warning surface	60	sf				

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MAY 2017
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SHEET NO. 2 **OF NO. 4**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMPROVEMENTS (CONT.)						
	2	concrete walks, pads, etc (cont.)						
		b) 6" conc						
		mesh 6 x 6 2.9/2.9						
		4" clean stone						
		finished area						
		scored area	1335	sf				
		expansion joint filler (1/2" x 6")	156	lf				
		c) door pads						
		8" conc						
		mesh 6 x 6 2.9/2.9						
		4" clean stone						
		finished area						
		scored area	945	sf				
		expansion joint filler (1/2" x 8")	130	lf				
		turned down edge mono one side forms	345	sf				
		conc	10	cy				
		drill dowels into existing concrete # 4 x 4" deep	34	ea				
		d) trash/recycling pads						
		6" conc						
		mesh 6 x 6 2.9/2.9						
		6" clean stone						
		finished area						
		scored area	1028	sf				
	3	concrete curbs						
		8"/9" x 18"	1945	lf				

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MASTER RECAP. SHEET **SHEET NO. 3** **OF NO. 4**

	NO.	GENERAL DESCRIPTION		QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMPROVEMENTS (CONT.)							
	4	concrete stairs							
		steps	riser forms	130	lf				
			conc	5	cy				
			finished risers and treads	130	lf				
		turned down edge mono	one side forms	60	sf				
			conc	1	cy				
		cheek walls							
		wall footing	forms	110	sf				
			conc	4	cy				
		walls	forms	350	sf				
			conc	7	cy				
	5	reconstruct brick paver walk (reuse salvaged brick)		304	sf				
	6	modular block retaining walls							
		face area (with geogrid)		1009	sf				
		cap unit		265	lf				
		stone base		15	cy				
		stone backfill		36	cy				
		drain pipe		265	lf				
	7	chain link fence							
		4'-0 high		220	lf				
	8	steel swing gate							
		15'-0 wide (detail 10/C-7.1)		1	ea				
		pivot/locking posts							
		6" dia. x 11'-0 long, galv		2	ea				
		concrete footing							
		24" dia. x 6'-0 deep (2 ea)	sonotube forms	12	lf				
			conc	2	cy				

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SHEET NO. 4 **OF NO. 4**

NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
	SITE IMPROVEMENTS (CONT.)						
9	bollards						
	6" dia x 6'-6 long	11	ea				
	concrete footing						
	18" dia x 42" deep (11 ea) sonotube forms	39	lf				
	conc	3	cy				
10	flagpole and base	1	ea				
11	signage						
	traffic signs						
	single sign, single post	9	ea				
	two signs, single post	6	ea				
	three signs, single post	2	ea				
	handicap parking	8	ea				
	relocate existing sign	1	ea				
12	painted lines						
	auto parking						
	regular	158	ea				
	handicap	8	ea				
	lines, arrows, etc allow		ls				

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MASTER RECAP. SHEET

SHEET NO. 1 **OF NO. 3**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SECTION 02360 STORM DRAINAGE						
	1	piping						
		18" PEP	161	lf				
		15" PEP	427	lf				
		12" PEP	216	lf				
		12" PVC	28	lf				
		10" PVC	120	lf				
		8" PVC	8	lf				
		6" PVC	279	lf				
		4" PVC	113	lf				
		cleanouts	9	ea				
	2	structures						
		inlet type B 0 to 4'-0 deep	1	ea				
		4'-0 to 6'-0 deep	3	ea				
		inlet type E 4'-0 to 6'-0 deep	2	ea				
		6'-0 to 8'-0 deep	3	ea				
		8'-0 to 10'-0 deep	1	ea				
		inlet type B (double) 0 to 4'-0 deep	1	ea				
		inlet type B (doghouse) 0 to 4'-0 deep	1	ea				
		connect existing 12" RCP into new inlet	2	ea				
		treatment device (6'-0 dia, detail 4/C-7.1)						
		4'-0 to 6'-0 deep	1	ea				
		treatment device (4'-0 dia, detail 5/C-7.1)						
		0 to 4'-0 deep	1	ea				
		4'-0 to 6'-0 deep	1	ea				
		treatment device (4'-0 dia, detail 5/C-7.1) (doghouse)						
		4'-0 to 6'-0 deep	1	ea				
		connect existing 12" RCP into new device	2	ea				
		outlet control structure (8/C-7.1) 8'-0 to 10'-0 deep	1	ea				

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SHEET NO. 2 **OF NO. 3**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SECTION 02360 (CONT.)						
	3	concrete low flow channels						
		6" conc						
		mesh						
		6 3/4" dia stone						
		finish area	180	sf				
		filter fabric (surround stone)(+10%)	520	sf				
	4	underground detention system						
		48" perf. PEP	400	lf				
		3" perf. PEP (air release pipe)	100	lf				
		48" x 48" tees	6	ea				
		48" 90 bends	2	ea				
		48" x 24" reducers	4	ea				
	5	replace type B casting to type E at existing inlet	1	ea				
	6	reset grate at existing inlet						
		raise +/- 13"	1	ea				
	7	modify existing outflow structure (8/C-7.0)	1	ea				
	8	connect existing pipes into new inlets						
		18" RCP	2	ea				
		15" RCP	3	ea				
		12" RCP	4	ea				
		8" clay	1	ea				
		6" PEP	1	ea				
	9	connect new pipes into existing inlets						
		12" PEP	1	ea				
		6" PVC	1	ea				

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	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SECTION 02360 (CONT.)						
	10	connect new 4" PVC and 6" PVC into existing roof leaders	4	ea				
	11	connect new 4" PVC to existing 4" pipe (with 4" bend and fernco coupler)						
			1	ea				

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SHEET NO. 1 **OF NO. 1**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SECTION 02530 SANITARY SEWERAGE						
	1	piping						
		6" PVC	135	lf				
		4" PVC	455	lf				
		4" DIP	62	lf				
		4" PVC to 4" DIP adaptors	2	ea				
		cleanouts	10	ea				
	2	structures						
		manholes 4'-0 to 6'-0 deep	1	ea				
		6'-0 to 8'-0 deep	1	ea				
	3	connect new 4" PVC into existing manhole	1	ea				
	4	connect new 6" PVC into existing manhole	1	ea				
	5	connect new 4" PVC into existing 6" pipe	2	ea				
	6	testing allow		ls				

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SHEET NO. 1 **OF NO. 1**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SECTION 02510 WATER DISTRIBUTION						
	1	piping						
		8" DIP	355	lf				
		6" DIP	236	lf				
		3" K copper	40	lf				
	2	appurtenances						
		DIP						
		8" bend	5	ea				
		6" bend	5	ea				
		8" valve	1	ea				
		6" valve	1	ea				
		6" x 3" tee	1	ea				
		3" DIP to 3" copper adaptor	1	ea				
		copper						
		3" valve	1	ea				
	3	replace existing fire hydrant						
		remove fire hydrant and valve	2	ea				
		new fire hydrant	2	ea				
		new 6" valve	2	ea				
	4	connect new 8" DIP into cut end at existing 8" DIP	1	ea				
	5	connect new 6" DIP into cut end at existing 6" DIP	2	ea				
	6	connect new 8" DIP into existing 8" DIP	1	ea				
	7	thrust blocks	14	ea				
	8	testing allow		ls				
	9	disinfection allow		ls				