Section Identification Opportunities A1 Estes Drive from MLK to Umstead		on	Section Identification Section Identification						Section Identification		Section Identification			Section Identification			Section Identificat	ion	Section Id	entification	Section Identification			
			A2		A3		A3 East of RR ROW, between Village		A4		A4			A4			A4		A4	A4		A4		
		K to Umstead	Estes Drive from Ur		Village Drive from E			of Lloyd (Carrboro)			nd RR track			Property and Hill (north end)	Broad between		Main	Cobb between Bro			een RR and Main Street		een Lloyd and I	Broad
	Existing Conditions		Existing Conditions		Existing Conditions		Existing Co			Conditions		Existing Co			Existing Conditi			Existing Condition		Existing Co			Conditions	
г	Yes No	Description:	Yes No	Description:	Yes No	Description:	Yes	No Description:	Yes	No	Description:	Yes	No	Description:	Yes I	No Des	scription:	Yes No	Description:	Yes	No Description:	Yes	No D	Description:
Sidewalks	х	Needs ped facility	х	Needs ped facility	х	4', East side, good condition	n	х		х	gravel road, no amenities		Х	Unpaved, gravel, topogrphy dips to creek and back up to	х	Eas	st side 4' with 18" grass	х	East side 4' with 18" grass	х	West side 5' with 18" gras	.s	х	
Path	х	Needs bike lane/facility	х	Needs bike lane/facility	х	_		х		х			Х	Hill	х	son	me ADA ramps @ corners	Х	some ADA ramps @ corners	;	X some ADA ramps @ corne	ers	х	
curb and gutter	х		х		х			х		х			Х		х	bot	th sides	х	both sides	х	both sides	х	b	ooth sides
ther pedestrian path	х		х		х		х	footpath, varies		х			Х		х			х			x		х	
crosswalk	х		х		х			X a.k.a. "Cliffside Trail"		х			Х		х			х			x		х	
roadway shoulders	K	3.5'	х	3.5'	х	probably room in ROW to		х		х			х		х			х			x		х	
bike lanes	х	dedicated areas on 5 side	х		х	stripe		х		х			Х		х			х			x		х	
le signs or amenities	х	for ironwoods SUP room for 1-2 more feet on	х	room for 1-2 more feet on	х	Creek on east side of		х		х			Х		х			х			X Connection to trail would		Х	short, low volume co
ditional Right of Way		both sides, state owned		both sides, state owned		sidewalk		Municipal owned property												?	require RR and private		fr	rom Broad to Lloyd
-	Signalized intersecti	ions	Signalized intersect	tions	Signalized intersect	ions	Signalized	intersections	Signalize	d intersection	ons	Signalized	intersection	ns	Signalized inter	ersections		Signalized intersec	tions	Signalized	intersections	Signalize	d intersections	s
edestrian signal head		None		None		None		None			None					No	one		None	х	Lloyd at Main		N	None
left turn arrows		1				1			1		<u> </u>	<u> </u>									x			
<u>-</u>	non signalized inter	sections	non signalized inte	rsections	non signalized inter	sections	non signali	ized intersections	non signa	alized inters	ections	non signa	lized inters	ections I	non signalized	d intersection	ons	non signalized inte	ersections	non signal	zed intersections	non sign	alized intersect	tions
rian crossing stencils	х	Umstead and Village	х	Umstead and Village	х	Village and Estes		None		х	Hill and Broad		Х		х			х			x		х	
strian warning signs	х		x		х					х			х		x			х			x		х	
	Lighting		Lighting		Lighting		Lighting		Lighting			Lighting			Lighting			Lighting		Lighting		Lighting		
Street lighting	ĸ	200' o.c., missing at creek	x	200' o.c., missing at creek	x	utilities below grade?		х		х			х	None	х	goo	od	х	good	х	200-300' o.c.?	x	2	200-300' o.c.?
blue lights	х		х		x			х		х			х		x			х			x		х	
	Other features	•	Other features	•	Other features	•	Other feat	ures	Other fea	atures	_	Other feat	tures	•	Other features	es		Other features		Other feat	ures	Other fea	atures	
andscape conditions	K	hill on north side, steep slo	χ	hill on north side, steep slo	X	Trees b/t Village and RR RO	vx	wooded, reasonable grade		х			х		х	sta	andard for residential	х	standard for residential		X standard for residential		X st	tandard for resider
planting strips	х	swales	х	swales	х	grass, 2'		х		х			х		х	18"	" grass	х	18" grass		X 18" grass	x		
sight conditions	х	okay	х	okay	х	good				х			х		х			х	_	х		x		
Perceived as safe?	х	high traffic	х	high traffic	х	no ped ramps, asphalt		X not in current condition		х			х	20' pavement with C&G	х	20'	pavement with C&G	х		х		x		
on-street parking	х	_	х		х	East, except at bus stop		х		х			х		х	bot	th sides			х	West side only	x	b	ooth sides
# of driveways		0		0		3 at condo entrances		at cemetary across RR/not 1 in use		2			1		8+?	.?			0 on north side		5+		2+	
				areas with guardrails would				rocky, flat on east side, topography to East at end													Lloyd appears to have roo for bicycle lanes in ROW,			
				require engineering to add				of Jay, low utilities, creek a					1	north end connects directly							connection to RR ROW at			
										1	I	1	1	north end connects directly		1		1 1						
		LINC to build hike and ned				hus stons on Village grade								with Town property							north end, connects to Ma	nin		
		UNC to build bike and ped		sidewalks/ areas with hills		bus stops on Village, grade		N end of Broad, potential						with Town property,		Car	rrhoro's Baldwin nark on				north end, connects to Ma	ain		
Other		UNC to build bike and ped facilities in this area as per development agreement				bus stops on Village, grade rises from Estes to end of Village								with Town property, topography and creek at low point are issues			rrboro's Baldwin park on st side				north end, connects to Ma Street at Arts Center intersection	ain		

Opportunities	ection Identificatio	n	Section Ide	tification	Section Identific	cation	Section Identification	on	Section Identif	cation	Section Ide	ntification	1	Section Iden	tification	Section Id	entification	Section Id	dentificatio	n	Section Identification	on
hallenges	1		B2A		B2-B3		B4		B3		B4			B5		B6		B7			B7	
	Imstead from Park t	to Estes Drive Ext	Sewer line e	asement	sewer line easen	nent to School Site	Mitchell and Caldwe	·II	McMasters Str	et	Church Stre	eet		Caldwell		Mitchell		Roberrso	n St from R	osemary to Cameron	Cameron from Robe	erson to End Point
-	xisting Conditions		Existing Cor	ditions	Existing Condition	ons	Existing Conditions		Existing Condit	ons	Existing Co	nditions		Existing Cond	ditions	Existing C	onditions	Existing C	Conditions	•	Existing Conditions	
	Yes No	Description:	Yes	No Description:	Yes N	lo Description:	Yes No	Description:	Yes	No Description:	Yes	No	Description:	Yes	No Description:	Yes	No Description:	Yes	No	Description:	Yes No	Description:
															·					4' East side, ADA at both		
		4' south side only, new,						wouth side, 5' wide, 3'												corners, grade chages,		some brick, some conci
Sidewalks		ends at Estes	1	1	x		X	landscape buffer	x			X		x		Х		Х		retaining wall needed	x	not in all locations
				10' wide path - narrows to		4-5' wide path, ditch,		27' wide Caldwell section,														Chapel Hill Gravel on V
Path	х		x	5' at one point	х	forested	x	24.5' Mitchell Section	x			Х		x			x		х		х	end
								Mitchell has sidewalks on					Ī									brick at Cogen, none a
curb and gutter	:	south side	1	(х		х	both sides				Х		x		х		х			х	Roberson
pedestrian path	Х			(Х				Х			Х		Х			х		Х		X	
													Ī							Not on Roberson, yes on		
																				East side of Rosemary		
crosswalk	х	Need at Village	1	(х		х		x			Х		x					х	(stripes)	х	Graham, Roberson
lway shoulders				(Х		Х					Х	Ī	Х					Х		Х	
bike lanes	Х			t	х		Х		х			Х		Х			х		Х		Х	
gns or amenities	Х			(Х		X		Х			Х		Х			х		Х		Х	
-		Need ADA ramps on SE											Ī									
onal Right of Way		corner with Village		too close to creek	x		x			?				x			24' wide pavement			?		?
-	ignalized intersecti	ons	Signalized in	itersections	Signalized inters	sections	Signalized intersecti	ons	Signalized inte	sections	Signalized i	intersectio	ons	Signalized in	tersections	Signalized	intersections	Signalized	d intersecti	ons	Signalized intersecti	ions
strian signal head		None		None		None		None		None			None		None		None					Pittsboro
left turn arrows																						Other?
	on signalized inters	sections	non signaliz	ed intersections	non signalized in	ntersections	non signalized inter	sections	non signalized	ntersections	non signali	zed interse	ections	non signalize	d intersections	non signa	ized intersections	non signa	alized inters	sections	non signalized inter	sections
		Estes - no																		at Franklin Street, 4-way		
		xwalks/ramps/sidewalks	I I.		v		l v		v			Y		×				x		striped cross walk, no ped	x	
	X	xwaiks/rairips/sidewaiks			ı x		X		x			X	1	X					х	signals	Х	Graham, Roberson
n crossing stencils rian warning signs	X X	xwaiks/ramps/sidewaiks	Lighting		X Lighting		X Lighting		X Lighting		Lighting	X		X Lighting		Lighting		Lighting	Х	signals	X Lighting	Graham, Roberson
rian warning signs	X X ighting	Xwaiks/Tamps/sidewaiks	Lighting		Lighting X		Lighting X	1	Lighting X		Lighting X	X	1	Lighting X		Lighting		Lighting	Х	1.0	X Lighting	Graham, Roberson
ian warning signs Street lighting	X X ighting X	200-300' spacing	Lighting		Lighting X	<u> </u>	Lighting X	1	Lighting X		Lighting X	X X	<u>1 </u>	Lighting X		Lighting		Lighting	X	signals 200' spacing	X Lighting X	Graham, Roberson
an warning signs Street lighting blue lights	ighting X	<u> </u>	Lighting Other featu	res	Lighting X X Other features		Lighting X X Other features	-	Lighting X X Other features		Lighting X Other feat	X X X X ures	-	Lighting X X Other featur	es	Lighting Other fea	ures	Lighting X Other fea	Х	1.0	X Lighting X X Other features	Graham, Roberson
Street lighting blue lights	ighting X X X X Other features	<u> </u>	2	res	X		X X	1	X X		Х	X X X X ures	-	X	es		ures	Х	Х	1.0	X X	Graham, Roberson
an warning signs Street lighting blue lights	ighting X X X X X X Other features	<u> </u>	2	i i i i i i i i i i i i i i i i i i i	X		X X Other features	urban streetscape with	X X		Х	X X X X ures	-	X	es			Х	Х	1.0	X X	
ian warning signs Street lighting blue lights	ighting X X X X Other features	200-300' spacing	2		X	??, buffer?? Forest, about 5 wide very close to the cree	X X Other features	urban streetscape with forested edges	X X		Х	X X X X ures	-	X	es		overhanging bushes west side, s of lindsay	Х	Х	1.0	X X	
ian warning signs Street lighting blue lights dscape conditons	X X X Ighting	200-300' spacing	2	Forested area	X	??, buffer?? Forest, about 5	X X Other features		X X		Х	X X X X ures	-	X	es		overhanging bushes west	Х	Х	1.0	X X	varies with trees, grass
an warning signs Street lighting blue lights Iscape conditons planting strips	ighting X X ighting X Uther features	200-300' spacing	2		X	??, buffer?? Forest, about 5	X X Other features		X X		Х	X X X X X ures	-	X	es		overhanging bushes west	Х	Х	200' spacing	X X	varies with trees, grass
Street lighting blue lights blue lights scape conditons planting strips sight conditions	x X X ighting X X Dther features X X X	200-300' spacing	2		X	??, buffer?? Forest, about 5	X X Other features		X X		Х	X X X X X ures	-	X	es		overhanging bushes west	Х	Х	200' spacing	X X	varies with trees, grass a
Street lighting blue lights blue lights blue lights scape conditons planting strips sight conditions erceived as safe?	x x x x x x x x x x x x x x x x x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine	2	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree	X X Other features		X X		Х	X X X X X ures	-	X	es		overhanging bushes west	Х	Х	200' spacing	X X	varies with trees, grass a
n warning signs Street lighting blue lights scape conditons planting strips sight conditions received as safe? n-street parking	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine lighting is low	2	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree	X X Other features		X X	one or both sides?	Х	X X X X X X X X X X X X X X X X X X X	-	X	es		overhanging bushes west	Х	x	200' spacing	X	varies with trees, grass a plantings
Street lighting blue lights blue lights scape conditons planting strips sight conditions rceived as safe?	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine	2	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree isolated	X X Other features		X X	one or both sides?	Х	X X X X X X X X X X X X X X X X X X X	-	X			overhanging bushes west	Х	Х	200' spacing 2' grass Meters on East side, S of	X X	varies with trees, grass plantings
Street lighting blue lights blue lights scape conditions planting strips sight conditions received as safe?	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine lighting is low 2 not active	Other featu	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree isolated could be made accessible;	X X Other features		X X	one or both sides?	Х	X X X X X X x x x x x x x x x x x x x x	-	X	could be made accessible;		overhanging bushes west	Х	x	200' spacing 2' grass Meters on East side, S of	X	varies with trees, grass plantings
Street lighting blue lights cape conditons planting strips light conditions received as safe?	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine lighting is low 2 not active topo rises to Estes, not a lo	Other featu X	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree isolated could be made accessible; recommend taking B3	X X Other features	forested edges	X X	one or both sides?	Х	X X X X X X X X X X X X X X X X X X X	-	X	could be made accessible; recommend taking B3		overhanging bushes west side, s of lindsay	Х	x	200' spacing 2' grass Meters on East side, S of	X	varies with trees, grass plantings
Street lighting blue lights blue lights scape conditions planting strips sight conditions received as safe?	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine lighting is low 2 not active topo rises to Estes, not a la of room for improvements	Other featu X	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree isolated could be made accessible; recommend taking B3 through school property	X X Other features	forested edges and the most direct route	X X	one or both sides?	Х	X X X X X X X X X X X X X X X X X X X		X	could be made accessible; recommend taking B3 through school property		overhanging bushes west side, s of lindsay X no	Х	x	200' spacing 2' grass Meters on East side, S of	X	varies with trees, grass plantings
Street lighting blue lights blue lights scape conditions planting strips sight conditions received as safe?	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine lighting is low 2 not active topo rises to Estes, not a lof or oom for improvements between park and village,	Other featu X	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree isolated could be made accessible; recommend taking 83 through school property and McMasters instead of	X X Other features	not the most direct route tot campus (unlikely to take	X X	one or both sides?	Х	X X X X X X X X X X X X X X X X X X X	24' wide street - probably	X	could be made accessible; recommend taking B3 through school property and McMasters instead of		overhanging bushes west side, s of lindsay X no not the most direct route transpus and doesn't provide	Х	x	200' spacing 2' grass Meters on East side, S of Franklin	X	varies with trees, grass plantings North side, meters
Street lighting blue lights blue lights dscape conditons planting strips sight conditions terceived as safe? on-street parking	x x x	200-300' spacing topo/creek on south side, sewer easement, woods fine lighting is low 2 not active topo rises to Estes, not a la of room for improvements	Other featu X	Forested area	X	??, buffer?? Forest, about 5 wide very close to the cree lisolated could be made accessible; recommend taking 83 through school property and McMasters instead of following the sewer	X X Other features	forested edges and the most direct route	X X	one or both sides?	X Other feat	X X X X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X X X X X	could be made accessible; recommend taking B3 through school property		overhanging bushes west side, s of lindsay X no	Х	x	200' spacing 2' grass Meters on East side, S of	X	varies with trees, grass a plantings North side, meters

	Section Identification					1	Section Ide	entification	1	Section Ide	ntification	1	Section Identification				
Opportunities	C1	Estes Drive	2	C2			C3			C4			C5				
Challenges	Duke Powe	er Line and	Maple Dr	Mt. Bolus f	Road and se	ewer easement	Bolinwood	Drive		Hillsboroug	h Street		Raleigh and Cameron to Old Well				
	Existing Conditions				nditions		Existing Co	nditions		Existing Co	nditions		Existing Conditions				
	Yes	No	Description:	Yes	No	Description:	Yes	No	Description:	Yes	No	Description:	Yes	No	Description:		
Sidewalks		Х			Χ		Х			Χ		Varies, mostly W	Х				
]			footpath along sewer			access to Bolin			some unpaved			some path at		
Path	Χ		Estes Drive S Side only	Х		easement; unpaved	Х		Creek Greenway	Χ		sections	Х		arboretum		
curb and gutter	Χ		Estes Drive		Х	1	Х			Χ		1	Х				
other pedestrian path					Х			Х									
			Estes MLK has signals;									bolinwood,			mid block on		
crosswalk	X		needs E-W walk		X					X		Rosemary,	x		raleigh		
roadway shoulders	Λ		inceds E W Walk		Υ	-			†	Λ		nosemary,	X	X	raicign		
bike lanes		X			X	-		X	†		X	-		X	-		
bicycle signs or amenities		X			X	-		X	†		X X	-		X	-		
bioyete signs of amenities					^	1			†			tight- retaining			Rock		
additional Right of Way					x						?	walls and grade		X	walls/arboretum		
	Signalized	intersectio	ns	Signalized	intersectio	ins	Signalized	intersectio	ins	Signalized i	ntersectio		Signalized	intersectio			
pedestrian signal head										X		Rosemary/Frank.	X		good facilities for		
left turn arrows						-			1			1	Х		pedestrians		
	lized interse	d intersections		Non signalized intersections			ized inters	ections	Non signali	zed inters	ections	Non signalized intersections					
pedestrian crossing stencils	Х		Estes needs additional		Х		Х					some mid-block?	Х				
pedestrian warning signs		Х			Χ			Χ]	X				
	Lighting			Lighting			Lighting			Lighting			Lighting				
						typical low residential			typical low								
Street lighting	Χ		Estes	Χ		area	Χ		residential area	Χ			х				
blue lights		Χ			Χ			Χ			X		х				
i	Other feat	ures	T	Other feat	ures	T	Other feat	ures	T	Other feat	ıres		Other feat	ures	1		
landscape conditons						typical residential						varies with use			Campus		
planting strips		Х	18"-4' varies on Estes		Х							varies			varies		
sight conditions			Good			moderate						varies at curves			vaires		
									narrow, lots of local		.,						
Perceived as safe?		V	power easement?	X		4			traffic		Х	tight, traffic and	V		heavy traffic		
on-street parking		X		Х	1 1	-						4	Х		East		
# of driveways		3 to 4	Maple		multiple				-						multiple		
			Duke Power line - no			residential area with						significant					
			parallel paths			hills, unmarked						topography			Cignificant		
			permitted, significant			pavement, no sidewalks						(northbound) and			Significant restrictions on		
			topography at creek			or bike lanes						constricted width			roadway width at		
			crossing before Maple									mean southbound					
												traffic is more			Raleigh/Rock walls and other features		
												feasible than					
Other												north-bound			on campus, West		
Other		<u> </u>					<u> </u>								side		