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# **FRENCH BROAD RIVER**

METROPOLITAN PLANNING ORGANIZATION

MTP 2045

# **APPENDIX D**

# **Environmental**

# **Justice (EJ) Project**

# **Scores**

Environmental Justice Qualitative Analysis Matrix

2045 MTP - Environmental Justice Qualitative Analysis Matrix			
Qualitative Performance Measure: Will This Project Contribute to or Deduct from:	Sub-Category	What is the rule that we use to determine impact of a specific project?	Measure
Accessibility (-2 to +2)	Improves or impairs transit travel times and quality of service	Improves transit travel times (e.g. improving traffic flow in corridor=travel time savings for bus route; improving a transit center=improving quality of service)	-1 Decrease travel time/decreases quality service 0 No change to travel time +1 Improves (decreases) travel time/improves quality service
	Connectivity of network including access to amenities and bike/ped connections	Any new link including new transportation link or improved service to regional amenities (medical, social, employment etc.)- positive; cutting off local link (i.e. with interstate)-negative). Bike/Ped improvement type improves connection	-1 Removes one or more existing connections or links 0 No change +1 Creates one or more new connections or links
Safety (-2 to +2)	Project addresses high automobile and/or bike/ped crash locations	Project is on a 2014-2018 HSIP segment (>66.7 "High"), 2014-2018 HSIP intersection (>30 crashes or >= 1 FATAL) includes bike/ped elements on a SPOT Bike/Ped crash score segment > 45.0 (MPO region mean 42.8)	-1 Creates/exacerbates potential safety issues 0 No change +1 Improves/removes potential safety issues
	Does project add shoulder (usable by bike/ped) width or bike lanes/sidewalks/MUP	Adding infrastructure to benefit pedestrians and bicyclists. Adding shoulder to allow safer passing or separating vulnerable users from traffic is a benefit, removal or reduction of those facilities is detrimental	-1 Removes/downgrades existing bike/ped 0 No change +1 Creates/Improves bike/ped facilities
Environmental Health (-2 to +2)	Air Quality	If VPD increase of 5,000 veh/day and at least 10% increase within 500 ft buffer -1; If ITS, Access Mgt, Intersection Improvements, or CMP +1	-1 Predicted AAQ worsens 0 No change +1 Predicted AAQ improves
	Noise	This is a multi-faceted measure that differs between facility types based on speed and volume: if traffic volumes increase by 5,000 veh/day and within 500 ft of EJ -1, no change 0, decrease by same +1; for corridors with posted speeds 40 mph+ if traffic speeds increase and within 500 ft of EJ -1 (Neutral if noise wall included), no change 0, if traffic speeds decrease and within 500 ft of EJ +1; for corridors with posted speeds less than 40, if stop-and-go traffic traffic decreases +1, no change 0, increases -1	Sum of noise criteria scores (left) will sum to a +1, 0, or -1 (net positive, neutral, or negative impact)
Social Equity (-2 to +2)	Does project disproportionately affect the space where EJ populations live, work, recreate or spend a lot of time?	Context-specific decision. Consider corridor, surrounding land uses, purposes of project, users of project etc. Bike/Ped projects within 100ft an EJ community (>= 3 CoC) +1 for potential improvement	+1 For potential improvement to EJ neighborhood 0 No Disproportionate Effect -1 Disruption of EJ population
	Does this project increase freight and/or traffic volumes in EJ Neighborhoods?	Negative if freight volumes increase, neutral = 0, positive if freight volumes reduced or shifted away from EJ neighborhood beyond 500' buffer **	+1 Reduced/shifted away 0 No change -1 Increased

MTP ID	MTP Status	Project Category	Improvement Type	TIP #	Route Name/Number	From/Cross Street	To	County	Description	Score	Transit travel times & quality of service	Connectivity of network (improves connection/a amenities)	High Crash Locations (Highway and Bike/Ped)	Includes bike lanes/sidewalks/MUP or bikeable shoulder	Air Quality	Noise	Does project disproportionately affect EJ residents/EJ local businesses?	Does this project increase freight volumes
HR4501	Committed	Regional	Capacity	I-2513A	I-26	I-40	Haywood Road	Buncombe	Add Additional Lanes	-4	0	0	0	0	-1	-1	-1	-1
HS4505	Developmental	Statewide	Modernization	A-0010AB	Future I-26	US 25	SR 2207	Buncombe		-3	0	0	0	0	-1	-1	0	-1
HS4506	Developmental	Statewide	Modernization	A-0010AC	Future I-26	SR 2207	South of SR 2148	Buncombe		-3	0	0	0	0	-1	-1	0	-1
HS4501	MTP	Statewide	Interchange Improvement	I-240		Charlotte Street	-	Buncombe		3	1	0	1	1	0	0	0	0
HR4502		Regional	Widening	A-0010AA	Future I-26	Broadway	US 25	Buncombe	SR 1781 (BROADWAY STREET) TO US 25. ADD ADDITIONAL LANES.	-3	0	0	1	0	-1	-1	-1	-1
HS4504	MTP	Statewide	Interchange Improvement	I-240		Merrimon Avenue	-	Buncombe		3	1	0	1	1	0	0	0	0
HS4502	Committed	Statewide	Capacity	I-2513B	I-26	Haywood Rd	Broadway (SR 1781)	Buncombe	Construct Multi-Lane Freeway, Part on New Location	-3	0	1	0	0	-1	-1	-1	-1
HS4503	Committed	Statewide	Capacity	I-2513C	I-26	I-40/I-240	-	Buncombe	Construct New Interchange	1	0	1	1	0	0	0	0	-1
HD134501	Committed	Division	New Roadway	R-5779	Crossroads Parkway	Current limits of SR 1631	SR 1632	Madison	EXTEND SR 1631 (CROSSROADS PARKWAY) TO SR 1632. NEW LOCATION/CONNECTION	1	0	1	0	0	-1	1	0	0
HD134502	Committed	Division	Capacity	U-5832	NC 81	SR 3214 (Biltmore Avenue)	US 74A (South Tunnel Road)	Buncombe	Widen roadway to add capacity. (Submitted by Division 13)	1	0	0	0	1	0	0	1	0
HD134503	Committed	Division	Modernization	U-5837	SR 2002	US 70 (Tunnel Road)	SR 2285 (Clear Vista Lane)	Buncombe	Upgrade to NCDOT standards and add turn lanes and signals	1	0	0	1	0	0	0	0	0
HD134504	Committed	Division	Intersection Improvement	U-6163	Mills Gap Road	Cane Creek Road	-	Buncombe	SR 3136 (CANE CREEK ROAD) INTERSECTION. REALIGN INTERSECTION AND ADD LEFT TURN LANES.	2	0	1	1	0	0	0	0	0
HR4503	Committed	Regional	Corridor Management	U-5782	US 25A	WT Weaver Blvd	-	Buncombe	Intersection Improvements	4	1	1	1	0	1	0	0	0
HR4504	Committed	Regional	Modernization	U-5783	US 64	SR 1180 (Blythe Street)	SR 1173 (White Pine Drive), SR 11	Henderson	Blythe St. to Daniel Dr. and White Pine Dr. - Widening and I	2	1	0	1	1	0	0	0	-1
HD134505	Committed	Division	Corridor Management	U-4739	SR 3556	I-240	US 25 (Biltmore Avenue)	Buncombe	I-240 to US 25 (Biltmore Avenue)	3	0	0	1	1	1	0	0	0
HD134506	Committed	Division	New Roadway	U-6230	New Access Road for Enka Commerce Park	US 19/23	NC 112	Buncombe	CONSTRUCT ACCESS ROAD FOR HAAKON INDUSTRIES IN ENKA COMMERCE PARK.	-1	0	1	0	0	0	-1	0	-1
HD134507	Committed	Division	Modernization	U-5834	SR 3116	US 25 (Hendersonville Road)	SR 3157 (Weston Road)	Buncombe	Upgrade existing roadway to NCDOT standards and add turn	1	0	0	1	1	0	0	-1	0
HR4505	Committed	Regional	Capacity	U-6049	US 25	South Main Street	US 176	Henderson	Widen Bridge # 143 to 5 Lanes	0	0	0	0	0	0	0	0	0
HR4506	Committed	Regional	Access Management	U-6124	NC 280	NC 191	NC 191	Henderson	NC 191 (HAYWOOD ROAD) TO NC 191 (OLD HAYWOOD ROAD). CONSTRUCT ACCESS MANAGEMENT AND INTERSECTION IMPROVEMENTS	2	0	0	1	1	0	0	0	0
HR4507	Committed	Regional	Capacity	U-3403B	NC 191	NC 146	North of Blue Ridge Parkway	Buncombe	Widen to Multi-Lanes. Construct Bicycle Lanes/Widen to Multi	2	1	0	1	1	0	0	0	-1
HD134508	Committed	Division	Modernization	U-6162	N Louisiana Avenue	US 19/23	Emma Road	Buncombe	US 19/23 (PATTON AVENUE) TO SR 1338 (EMMA ROAD). MODERNIZE ROADWAY.	4	1	0	1	1	0	0	1	0
HD134509	Committed	Division	Modernization	U-6046	NC 81	US 70 (Tunnel Road)	US 74 (South Tunnel Road)	Buncombe	Add On-Street Parking, Intersection and Signal Upgrades, Ra	3	0	0	1	1	0	0	1	0
HD134510	Committed	Division	Capacity	U-6047	NC 112	NC 191 (Brevard Road)	SR 3412 (Sand Hill Road)	Buncombe	Widen to add capacity and improve safety.	0	1	0	1	1	-1	-1	0	-1
HD134511	MTP	Division	Modernization		Bruce Road	N Main Street	Bailey Street	Madison		0	0	0	0	0	0	0	0	0
HD134512	MTP	Division	Modernization		Blue Ridge Road	Blue Ridge Assembly Drive	NC 9	Buncombe	Modernize roadway, upgrade intersections. Coordinate with I-4409 Blue Ridge Road interchange project. Include complete streets improvements.	-1	0	0	0	1	-1	0	0	-1
HD134513	MTP	Division	Modernization		Woodfin Street	Central Avenue	Lexington Avenue	Buncombe		0	0	0	0	1	0	0	-1	0
HD134514	MTP	Division	Road Diet		US 70	Blue Ridge Road	NC 9	Buncombe		1	-1	0	0	1	1	1	0	-1
HD134515	MTP	Division	Roadway Upgrade		US 25A (Sweeten Creek Road)	I-40	US 25 (Biltmore Avenue)	Buncombe		1	0	0	1	1	-1	0	0	0
HR4508	Committed	Regional	Corridor Management	U-5781	US 25A	Edgewood Rd	-	Buncombe	Intersection Improvements	4	1	1	1	0	1	0	0	0
HR4509	Committed	Regional	Capacity	U-2801A	US 25A	US 25 (Hendersonville Road)	SR 3081 (Rock Hill Road)	Buncombe	Widen to Multi-Lanes	0	0	0	1	1	0	-1	0	-1
HR4510	Committed	Regional	Access Management	U-5972	NC 63	US 19/23	Newfound Road	Buncombe	NC 63 (NEW LEICESTER HIGHWAY), US 19/23 (PATTON AVENUE) TO NEWFOUND ROAD. CONSTRUCT ACCESS MANAGEMENT IMPROVEMENTS.	2	1	0	1	0	0	0	0	0
HD134516	MTP	Division	Access Management		US 70 (Tunnel Road)/US 74A (South Tunnel Road)	The Tunnel	NC 81 (Swannanoa River Road)	Buncombe		2	1	0	1	1	1	-1	0	-1
HD134517	MTP	Division	Access Management		US 25 (Hendersonville Road)	I-40	Blue Ridge Parkway	Buncombe		2	1	0	1	1	-1	-1	-1	0
HD134518	MTP	Division	Access Management		US 19/23 (Patton Avenue)/Smokey Park Highway	I-40	Haywood Road	Buncombe		3	1	0	1	1	1	0	-1	0
HR4511	Committed	Regional	Intersection Improvement	U-5971	US 19 (Patton Avenue)	NC 63	-	Buncombe	US 19 (PATTON AVENUE) AND NC 63 (NEW LEICESTER HIGHWAY). CONSTRUCT FINAL INTERSECTION IMPROVEMENTS.	1	1	0	1	1	-1	0	0	-1
HR4512	Committed	Regional	Interchange/Intersection	U-5973	US 19/23 Business	SR 1740 (New Stock Road)	-	Buncombe	Intersection Improvements	3	0	1	1	0	1	0	0	0
HD134519	MTP	Division	Modernization		Rock Hill Road	US 25 (Hendersonville Road)	US 25A (Sweeten Creek Road)	Buncombe		3	0	0	1	1	0	0	1	0
HD134520	MTP	Division	Modernization		Haywood Road	Craven Street	US 19/23 (Patton Avenue)	Buncombe		2	1	0	0	1	0	0	0	0
HD134521	MTP	Division	Modernization		Broadway	Chestnut	I-240	Buncombe		2	0	0	1	1	0	0	0	0
HD134522	MTP	Division	Access Management		NC 280 (Airport Road)	US 25 (Hendersonville Road)	I-26	Buncombe		3	1	0	1	0	1	0	-1	1
HD134523	MTP	Division	Modernization		Beaverdam Road	US 25 (Merrimon Avenue)	Webb Cove Road	Buncombe	Beaverdam Road Upgrade and Pedestrian	3	1	0	1	1	0	0	0	0
HD134524	MTP	Division	Access Management		US 25A (Sweeten Creek Road)	I-40	Rock Hill Road	Buncombe		2	1	0	1	1	1	-1	0	-1
HS4507	Committed	Statewide	Capacity	I-4400B	I-26	US 64	US 25 Business	Henderson	Add Additional Lanes - Includes US 64 Interchange (I-4400B)	-3	0	0	0	0	-1	-1	0	-1
HS4508	Committed	Statewide	Capacity	I-4700	I-26	NC 280	I-40	Buncombe	Add Additional Lanes	-3	0	0	0	0	-1	-1	0	-1
HS4509	Developmental	Statewide	Widening	I-4400A	I-26	US 25	US 64	Henderson	US 25 (EXIT 54) TO US 64 (EXIT 49). ADD ADDITIONAL LANES.	-3	0	0	1	0	-1	-1	-1	-1
HS4510	Committed	Statewide	Interchange/Intersection	I-4759	I-40	SR 1238 (Liberty Road)	-	Buncombe	Convert Grade Separation to An Interchange and Construct	0	0	1	1	0	0	-1	0	-1
HS4511	Developmental	Statewide	Interchange Improvement	I-6018	I-40	I-240/US 74A	-	Buncombe		1	0	1	1	0	0	0	0	-1
HS4512	Developmental	Statewide	Interchange Improvement	I-6021	I-40	Porter's Cove Road	-	Buncombe		0	0	0	1	0	0	0	0	-1
HS4513	Developmental	Statewide	Widening	I-6054C	I-40	Wiggins Road	Monte Vista Road	Buncombe		-3	0	0	0	0	-1	-1	0	-1
HS4514	MTP	Statewide	Widening	I-6054A	I-40	US 74	NC 215	Haywood		-3	0	0	0	0	-1	-1	0	-1
HS4515	MTP	Statewide	Widening	I-6054B	I-40	NC 215	Exit 37 (Wiggins Road)	Haywood		-2	0	0	1	0	-1	-1	0	-1
HS4516	MTP	Statewide	Widening	I-40		US 25 (Hendersonville Road)	Patton Cove Road	Buncombe		-3	0	0	0	0	-1	-1	0	-1
HS4517	Committed	Statewide	Construct New Interchange	I-4409	I-40@Blue Ridge Road	-	-	Buncombe	CONVERT I-40/SR 2500 (BLUE RIDGE ROAD) GRADE SEPARATION TO INTERCHANGE. WIDEN SR 2500 (BLUE RIDGE ROAD) TO THREE LANES FROM US 70 TO SOUTH OF I-40 AND UPGRADE ROADWAY SOUTH OF I-40 TO SR 2713.	0	0	1	0	1	0	-1	0	-1
HS4518	MTP	Statewide	Access Management/Widening		US 23/74 (Great Smokey Mountains Expressway)	I-40	Blue Ridge Parkway	Haywood		-2	1	0	1	0	-1	-1	-1	-1
HR4513	?	Regional	Runway Construction	AV-5735	Asheville Airport	-	-	Buncombe		0	0	0	0	0	0	0	0	0
HR4514	Committed	Regional	Capacity	I-4400C	I-26	US 25 Business	NC 280	Henderson	Add Additional Lanes	-4	0	0	0	0	-1	-1	-1	-1
HR4515	Committed	Regional	Widening	U-3403A	NC 191	Ledbetter Road	NC 280 (Boylston Highway)	Buncombe, Henderson		1	0	0	1	0	0	0	0	0
HR4516	MTP	Regional	Access Management		US 25 (Hendersonville Road)	Blue Ridge Parkway	NC 146 (Long Shoals Road)	Buncombe		2	1	0	1	1	1	-1	0	-1



MTP ID	MTP Status	Project Category	Improvement Type	TIP #	Route Name/Number	From/Cross Street	To	County	Description	Score	Transit travel times & quality of service	Connectivity of network (improves connection/a menities)	High Crash Locations (Highway and Bike/Ped)	Includes bike lanes/sidewalks/MUP or bikeable shoulder	Air Quality	Noise	Does project disproportionately affect EJ residents/EJ local businesses?	Does this project increase freight volumes
BP134503	Fully Funded	BikePed	Multi-Use Path	U-50198	French Broad River West Greenway	Haywood Road	French Broad River Park	Buncombe		2	0	1	0	1	0	0	0	0
BP144543	MTP	BikePed	Sidewalks	EB-5963	Greenville Highway (NC 225) Sidewalks	Spartanburg Hwy	Brooklyn Ave	Henderson		2	0	1	0	1	0	0	0	0
BP144508	Fully Funded	BikePed	Sidewalks	EB-5963	Grove Street	US 176	Barnwell Street	Henderson		3	0	1	0	1	0	0	1	0
BP144520	Fully Funded	BikePed	Sidewalks	EB-5859	Hazelwood Avenue	Plott Creek Road	Will Hyatt Road	Haywood		2	0	1	0	1	0	0	0	0
BP134515	Fully Funded	BikePed	Sidewalks	EB-5944	Johnston Boulevard	Patton Avenue	Iona Circle	Buncombe		3	0	1	0	1	0	0	1	0
BP134550	MTP	BikePed	Multi-Use Path		Lake Julian Greenway	I-26	Lake Julian Park	Buncombe		2	0	1	0	1	0	0	0	0
BP134510	Partially Funded	BikePed	Complete Streets	EB-5830	Lexington Avenue	Patton Avenue	Southside Avenue	Buncombe		2	0	1	0	1	0	0	0	0
BP134521	Fully Funded	BikePed	Pedestrian Improvements	EB-5919	McDowell Street/Choctaw Street	Southside Avenue	Biltmore Avenue	Buncombe		2	0	1	0	1	0	0	0	0
BP144501	Partially Funded	BikePed	Multi-Use Path	EB-5946	Mills River Valley Trail	French Broad River	NC 191	Henderson		2	0	1	0	1	0	0	0	0
BP134542	MTP	BikePed	Multi-Use Path		Montford Greenway	French Broad River	Montford Ave/Riverside	Buncombe		2	0	1	0	1	0	0	0	0
BP134511	Fully Funded	BikePed	Multi-Use Path	EB-5774	NC 251/Bewaterdam Creek Greenway	Broadway	US 25	Buncombe		2	0	1	0	1	0	0	0	0
BP134513	Fully Funded	BikePed	Sidewalks	EB-5947	New Haw Creek Road	Beverly Road	Bell Road	Buncombe		2	0	1	0	1	0	0	0	0
BP134525	SPOT	BikePed	Sidewalks		North Blue Ridge Road	US 70	Fortune Street	Buncombe		2	0	1	0	1	0	0	0	0
BP134506	Fully Funded	BikePed	Multi-Use Path	EB-5822	North RAD Greenway	Hill Street	Broadway	Buncombe		2	0	1	0	1	0	0	0	0
BP144534	SPOT	BikePed	Multi-Use Path		Oklawaha Greenway (Southern Extension)	Jackson Park	Blue Ridge Community College	Henderson		2	0	1	0	1	0	0	0	0
BP144532	SPOT	BikePed	Sidewalks		Old Clyde Highway	Blackwell Drive	Granberry Street	Haywood		2	0	1	0	1	0	0	0	0
BP134528	SPOT	BikePed	Sidewalks		Old Haywood Road	US 19/23 (Patton Avenue)	US 19/23 (Patton Avenue)	Buncombe		2	0	1	0	1	0	0	0	0
BP134516	Fully Funded	BikePed	Sidewalks	EB-5948	Onteora Boulevard	Lincoln Avenue	Raleigh Road	Buncombe		2	0	1	0	1	0	0	0	0
BP134546	MTP	BikePed	Multi-Use Path		Owen Spar Greenway Alternate - River	Brook Park	Owen HS	Buncombe		2	0	1	0	1	0	0	0	0
BP134526	SPOT	BikePed	Bike Improvements		Reed Creek Greenway Connector	Reed Creek Greenway	Clingman Avenue	Buncombe		2	0	1	0	1	0	0	0	0
BP134522	Partially Funded	BikePed	Multi-Use Path	EB-5821	Reems Creek Greenway	Western Weaverville Town	Karpen Soccer Fields	Buncombe		2	0	1	0	1	0	0	0	0
BP144530	SPOT	BikePed	Multi-Use Path		Richland Creek Greenway	Waynesville Rec Park	Haywood High-Tech Center	Haywood		2	0	1	0	1	0	0	0	0
BP144545	MTP	BikePed	Multi-Use Path		Richland Creek Greenway	Rec Park	Hyatt Creek Rd	Haywood		2	0	1	0	1	0	0	0	0
BP134527	SPOT	BikePed	Bike Improvements		Riverside Drive	Hill Street	I-240	Buncombe		2	0	1	0	1	0	0	0	0
BP134507	Fully Funded	BikePed	Multi-Use Path	EB-5547	Riverwalk Greenway	Flat Creek Greenway	Into the Oaks Trail	Buncombe		2	0	1	0	1	0	0	0	0
BP134555	MTP	BikePed	Sidewalks		Rock Hill Road Sidewalks	Ridgelawn Rd	Edgewood Dr	Buncombe		3	0	1	0	1	0	0	1	0
BP134552	MTP	BikePed	Sidewalks		Smoky Park Highway - South of I-40	I-40	Sand Hill Rd	Buncombe		2	0	1	0	1	0	0	0	0
BP134553	MTP	BikePed	Sidewalks		Smoky Park Highway Sidewalks - North of I-40	Old Haywood Rd	I-40	Buncombe		2	0	1	0	1	0	0	0	0
BP134549	MTP	BikePed	Sidewalks		Sweeten Creek Road Sidewalks	I-40	Rock Hill Rd	Buncombe		3	0	1	0	1	0	0	1	0
BP134544	MTP	BikePed	Sidewalks		Sweeten Creek Road Sidewalks	Fairview Rd	I-40	Buncombe		2	0	1	0	1	0	0	0	0
BP134504	Fully Funded	BikePed	Multi-Use Path	U-5019A	Town Branch Greenway	US 25	Depot Street	Buncombe		3	0	1	0	1	0	0	1	0
BP144512	Fully Funded	BikePed	Complete Streets	EB-5926	US 19 (Soco Road)			Haywood		2	0	1	0	1	0	0	0	0
BP144536	SPOT	BikePed	Sidewalks		US 64	Orrs Camp Road	Howard Gap Road	Henderson		2	0	1	0	1	0	0	0	0
BP144548	MTP	BikePed	Sidewalks		Vance St Sidewalks	W Marshall/Walnut St	Waynesville Rec Park	Haywood		2	0	1	0	1	0	0	0	0
BP144556	MTP	BikePed	Sidewalks		Wall Street Sidewalks	US 276/Pigeon St	N Main St/Assembly St	Haywood		2	0	1	0	1	0	0	0	0
BP134547	MTP	BikePed	Multi-Use Path		West Asheville Rails to Trails - Enka Section	Buncombe County Sports Pa	Old Haywood Rd	Buncombe		2	0	1	0	1	0	0	0	0
BP134540	MTP	BikePed	Multi-Use Path		West Asheville Rails to Trails - West Asheville Section	Old Haywood Rd	Emma Greenway	Buncombe		2	0	1	0	1	0	0	0	0