

STIP Project List

STIP # TDOT PIN # LENGTH IN MILES LEAD AGENCY

COUNTY TOTAL PROJECT COST

ROUTE

TERMINI

PROJECT DESCRIPTION

REMARKS



COUNTY MAP

OLD PAGE

FY	PHASE	FUNDING	TOTAL FUNDS	FED FUNDS	STATE FUNDS	LOCAL FUNDS
2017	PE, ROW, CONST	PHSIP	601,500	541,350	60,150	
2018	PE, ROW, CONST	PHSIP	601,500	541,350	60,150	
2019	PE, ROW, CONST	PHSIP	601,500	541,350	60,150	
2020	PE, ROW, CONST	PHSIP	601,500	541,350	60,150	



VICINITY MAP

ALL SCHEDULES SUBJECT TO AVAILABILITY OF FUNDS

STIP Project List

STIP # 1747135
 TDOT PIN #
 LENGTH IN MILES
 LEAD AGENCY TDOT

COUNTY KNOX, BLOUNT, LOUDON, SEVIER
 TOTAL PROJECT COST \$4,076,000

ROUTE
 TIP # 17-2017-304

TERMINI KNOXVILLE TPO

PROJECT DESCRIPTION SEE TIP GROUPING DESCRIPTION FOR A COMPREHENSIVE LISTING OF ACTIVITIES INCLUDED BUT NOT LIMITED FOR ELIGIBILITY

REMARKS



COUNTY MAP

ADJUSTED PAGE

Adjustment Number

14

FY	PHASE	FUNDING	TOTAL FUNDS	FED FUNDS	STATE FUNDS	LOCAL FUNDS
2017	PE, ROW, CONST	PHSIP	601,500	601,500		
2017	PE, ROW, CONST	RPHSIP	720,000	576,000	144,000	
2017	PE, ROW, CONST	ACPHSIP	450,000		450,000	
2018	PE, ROW, CONST	PHSIP	601,500	601,500		
2019	PE, ROW, CONST	PHSIP	601,500	601,500		
2020	PE, ROW, CONST	PHSIP	601,500	601,500		



VICINITY MAP

ALL SCHEDULES SUBJECT TO AVAILABILITY OF FUNDS

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>Highway Safety Improvement Program(HSIP) Grouping</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p style="color: red;">Knox MPO STIP # 1747130 TIP # 17-2017-301</p> </div>	<p>Any strategy, activity or project on a public road that is consistent with the data-driven State Strategic Highway Safety Plan (SHSP) and corrects or improves a hazardous road location or feature or addresses a highway safety problem, including workforce development, training and education activities.</p> <p>Eligibility of specific projects, strategies, and activities is generally based on:</p> <ul style="list-style-type: none"> • Consistency with SHSP, • Crash experience, crash potential, or other data-supported means, • Compliance with the requirements of Title 23 of the USC, and • State’s strategic or performance-based safety goals to reduce fatalities and serious injuries on all public roads. • Projects to upgrade railway-highway grade crossings by eliminating hazards and installing protective devices. 	<ul style="list-style-type: none"> • Intersection safety improvements • Pavement and shoulder widening (including a passing lane to remedy an unsafe condition) • Installation of rumble strips or another warning devices, if they do not adversely affect the safety or mobility of bicyclists and pedestrians • Installation of skid-resistant surface at intersections or locations with high crash frequencies • Improvements for pedestrian or bicyclist safety • Construction and improvement of a railway-highway grade crossing safety feature, including installation of protective devices • The conduct of a model traffic enforcement activity at a railway-highway crossing • Construction of a traffic calming feature • Elimination of a roadside hazard • Installation, replacement, and other improvements of highway signage and pavement markings, or a project to maintain minimum levels of retro-reflectivity that addresses a highway safety problem consistent with the SHSP • Installation of emergency vehicle priority control systems at signalized intersections • Installation of traffic control or other warning devices at locations with high crash potential • Transportation safety planning • Collection, analysis, and improvement of safety data • Planning integrated interoperable emergency communications equipment or operational or traffic enforcement activities (including police assistance) related to work zone safety • Installation of guardrails, barriers (including barriers between construction work zones and traffic lanes), and crash attenuators • The addition or retrofitting of structures or other measures to eliminate or reduce crashes involving vehicles and wildlife • Installation of yellow-green signs and signals at pedestrian and bicycle crossings and in school zones • Construction and operational improvements on high risk rural roads • Geometric improvements to a road for safety purposes that improve safety • Road safety audits • Roadway safety infrastructure improvements consistent with FHWA’s “Highway Design Handbook for Older Drivers and Pedestrians” (FHWA-RD-01-103) • Truck parking facilities eligible for funding under Section 1401 of MAP-21 • Systemic safety improvements • Installation of vehicle-to-infrastructure communication equipment. • Pedestrian hybrid beacons. • Roadway improvements that provide separation between pedestrians and motor vehicles, including medians and pedestrian crossing islands. • Other physical infrastructure projects not specifically enumerated in the list of eligible projects. • Workforce development, training, and education activities

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>Highway Safety Improvement Program(HSIP) Grouping</p> <p>(continued)</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747130 TIP # 17-2017-301</p> </div>		<p>Activities included as part of the Highway Railroad Grade Crossing program:</p> <ul style="list-style-type: none"> • Elimination of hazards of railway-highway crossings, including the separation or protection of grades at crossings • Reconstruction of existing railroad grade crossing structures • Relocation of highways to eliminate grade crossings • Installation of protective devices

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>National Highway Performance Program (NHPP) Grouping</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747100 TIP # 17-2017-303</p> </div>	<p>Projects for the preservation and improvement of the conditions and performance of the National Highway System (NHS), including</p> <ul style="list-style-type: none"> ● Rehabilitation, resurfacing, restoration, preservation, and operational improvements, ● Traffic operations, ● Bridge and tunnel improvements, ● Safety improvements, ● Bicycle and pedestrian improvements, and ● Environmental mitigation. 	<ul style="list-style-type: none"> ● Minor rehabilitation, pavement resurfacing, preventative maintenance, restoration, and pavement preservation treatments to extend the service life of highway infrastructure, including pavement markings and improvements to roadside hardware or sight distance ● Highway improvement work including slide repair, rock fall mitigation, drainage repairs, or other preventative work necessary to maintain or extend the service life of the existing infrastructure in a good operational condition ● Minor operational and safety improvements to intersections and interchanges such as adding turn lanes, addressing existing geometric deficiencies, and extending on/off ramps ● Capital and operating costs for intelligent transportation systems (ITS) and traffic monitoring, management, and control facilities and programs: <ul style="list-style-type: none"> ○ Infrastructure-based intelligent transportation systems (ITS) capital improvements ○ Traffic Management Center (TMC) operations and utilities ○ Freeway service patrols ○ Traveler information ● Bridge and tunnel construction (no additional travel lanes), replacement, rehabilitation, preservation, protection, inspection, evaluation, and inspector training and inspection and evaluation of other infrastructure assets, such as signs, walls, and drainage structures ● Development and implementation of a State Asset Management Plan including data collection, maintenance and integration, software costs, and equipment costs that support the development of performance-based management systems for infrastructure ● Rail-highway grade crossing improvements ● Highway safety improvements: <ul style="list-style-type: none"> ○ Installation of new or improvement of existing guardrail ○ Installation of traffic signs and signals/lights ○ Spot safety improvements ● Sidewalk improvements ● Pedestrian and/or bicycle facilities ● Traffic calming and traffic diversion improvements ● Noise walls ● Wetland and/or stream mitigation ● Environmental restoration and pollution abatement ● Control of noxious weeds and establishment of native species

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>Surface Transportation Block Grant Program (STBG) Grouping</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747105 TIP # 17-2017-302</p> </div>	<p>Projects and programs for the preservation and improvement of the conditions and performance of Federal-aid highways and public roads, including:</p> <ul style="list-style-type: none"> ● Rehabilitation, resurfacing, restoration, preservation, and operational improvements on Federal-aid highways and designated routes of the Appalachian Development Highway System (ADHS) and local access roads under 40 USC 14501, ● Traffic operations on Federal-aid highways, ● Bridge and tunnel improvements on public roads, ● Safety improvements on public roads, ● Environmental mitigation ● Scenic and historic highway programs, ● Landscaping and scenic beautification, 	<p>Activities previously authorized under the Surface Transportation Program (STP):</p> <ul style="list-style-type: none"> ● Minor rehabilitation, pavement resurfacing, preventative maintenance, restoration, and pavement preservation treatments to extend the service life of highway infrastructure, including pavement markings and improvements to roadside hardware or sight distance ● Highway improvement work including slide repair, rock fall mitigation, drainage repairs, or other preventative work necessary to maintain or extend the service life of the existing infrastructure in a good operational condition ● Minor operational and safety improvements to intersections and interchanges such as adding turn lanes, addressing existing geometric deficiencies, and extending on/off ramps ● Capital and operating costs for intelligent transportation systems (ITS) and traffic monitoring, management, and control facilities and programs: <ul style="list-style-type: none"> ○ Infrastructure-based intelligent transportation systems (ITS) capital improvements ○ Traffic Management Center (TMC) operations and utilities ○ Freeway service patrols ○ Traveler information ● Bridge and tunnel construction (no additional travel lanes), replacement, rehabilitation, preservation, protection, inspection, evaluation, and inspector training and inspection and evaluation of other infrastructure assets, such as signs, walls, and drainage structures ● Development and implementation of a State Asset Management Plan including data collection, maintenance and integration, software costs, and equipment costs that support the development of performance-based management systems for infrastructure ● Rail-highway grade crossing improvements ● Highway safety improvements: <ul style="list-style-type: none"> ○ Installation of new or improvement of existing guardrail ○ Installation of traffic signs and signals/lights ○ Spot safety improvements ● Sidewalk improvements ● Pedestrian and/or bicycle facilities ● Traffic calming and traffic diversion improvements ● Transportation Alternatives as defined by 23 USC 213(B), 23 USC. 101(A)(29), and Section 1122 of MAP-21 ● Noise walls ● Wetland and/or stream mitigation ● Environmental restoration and pollution abatement ● Control of noxious weeds and establishment of native species <p>Activities previously authorized under the Transportation Enhancement Program:</p>

<p>Surface Transportation Block Grant Program (STBG) Grouping (continued)</p> <div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> <p>Knox MPO STIP # 1747105 TIP# 17-2017-302</p> </div>	<ul style="list-style-type: none"> ● Historic preservation, ● On- and off-road pedestrian and bicycle facilities, ● Infrastructure projects for improving non-driver access to public transportation and enhanced mobility, ● Community improvement activities, ● Recreational Trail Program projects, ● Safe Routes to School (SRTS) projects, ● Transportation Enhancement projects, ● Transportation Alternatives projects, ● Projects for the creation, rehabilitation, and maintenance of multi-use recreational trails. 	<ul style="list-style-type: none"> ○ Pedestrian and bicycle facilities, safety, and educational activities ○ Acquisition of scenic easements and scenic or historic sites ○ Scenic or historic highway programs ○ Landscaping and other scenic beautification activities ○ Historic preservation ○ Rehabilitation and operation of historic transportation buildings, structures, or facilities ○ Preservation of abandoned railway corridors ○ Inventory, control, and removal of outdoor advertising ○ Archaeological planning and research ○ Environmental mitigation to address water pollution due to highway runoff or reduce vehicle-caused wildlife mortality while maintaining habitat connectivity ○ Establishment of transportation museums ○ Activities under the Tennessee Roadscapes grant program, including landscaping, irrigation, benches, trash cans, paths, and signage <p>Activities previously authorized under the Safe Routes to School Program (SRTS):</p> <ul style="list-style-type: none"> ● Sidewalk improvements ● Traffic calming and speed reduction improvements ● Pedestrian and bicycle crossing improvements ● On-street bicycle facilities ● Off-street bicycle and pedestrian facilities ● Secure bicycle parking facilities ● Traffic diversion improvements approximately within 2 miles of a school location ● Non-infrastructure related activities: <ul style="list-style-type: none"> ○ Public awareness campaigns and outreach to press and community leaders ○ Traffic education and enforcement in the vicinity of schools <ul style="list-style-type: none"> ● Student sessions on bicycle and pedestrian safety, health, and environment ● Funding for training, volunteers, and managers of safe routes to school program <p>Activities previously authorized under the Transportation Alternatives Program (TAP):</p> <ul style="list-style-type: none"> ● Construction, planning, and design of on-road and off-road trail facilities for pedestrians, bicyclists, and other non-motorized forms of transportation, including: <ul style="list-style-type: none"> ○ Sidewalk improvements ○ Bicycle infrastructure ○ Pedestrian and bicycle signals ○ Traffic calming techniques ○ Lighting and other safety-related infrastructure
--	--	---

<p>Surface Transportation Block Grant Program (STBG) Grouping</p> <p>(continued)</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747105 TIP# 17-2017-302</p> </div>	<ul style="list-style-type: none"> ● Projects for the planning, design or construction of boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways. 	<ul style="list-style-type: none"> ○ Transportation projects to achieve compliance with the Americans with Disabilities Act of 1990 ● Construction, planning, and design of infrastructure-related projects and systems that will provide safe routes for non-drivers, including children, older adults, and individuals with disabilities to access daily needs ● Conversion and use of abandoned railroad corridors for trails for pedestrians, bicyclists, or other non-motorized transportation users ● Construction of turnouts, overlooks, and viewing areas ● Community improvement activities, which include but are not limited to: <ul style="list-style-type: none"> ○ Inventory, control, or removal of outdoor advertising ○ Historic preservation and rehabilitation of historic transportation facilities ○ Vegetation management in transportation rights-of-way to improve roadway safety, prevent invasive species, and provide erosion control ○ Archaeological activities relating to impacts from implementation of a transportation project eligible under Title 23 of the USC ● Any environmental mitigation activity, including pollution prevention and pollution abatement activities and mitigation to: <ul style="list-style-type: none"> ○ Address stormwater management, control, and water pollution prevention or abatement related to highway construction or due to highway runoff ○ Reduce vehicle-caused wildlife mortality or to restore and maintain connectivity among terrestrial or aquatic habitats ● Recreational Trails Program activities under 23 USC 206 ● SRTS Program infrastructure-related projects, non-infrastructure-related activities (such as pedestrian and bicycle safety and educational activities advanced under the SRTS program), and SRTS Coordinator positions. ● Planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways <p>Activities previously authorized under the Recreational Trails Program (RTP):</p> <ul style="list-style-type: none"> ● Maintenance and restoration of existing recreational trails ● Development and rehabilitation of trailside and trailhead facilities and trail linkages for recreational trails ● Purchase and lease of recreational trail construction and maintenance equipment ● Construction of new recreational trails ● Acquisition of easements and fee simple title to property for recreational trails or recreational trail corridors ● Assessment of trail conditions for accessibility and maintenance ● Development and dissemination of publications and operation of educational programs to promote safety and environmental protection ● Payment of costs to the State incurred in administering the program
---	--	---

Appendices

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>Highway Safety Improvement Program(HSIP) Grouping</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747130 TIP # 17-2017-301</p> </div>	<p>Any strategy, activity or project on a public road that is consistent with the data-driven State Strategic Highway Safety Plan (SHSP) and corrects or improves a hazardous road location or feature or addresses a highway safety problem, including workforce development, training and education activities.</p> <p>Eligibility of specific projects, strategies, and activities is generally based on:</p> <ul style="list-style-type: none"> ● Consistency with SHSP, ● Crash experience, crash potential, or other data-supported means, ● Compliance with the requirements of Title 23 of the USC, and ● State's strategic or performance-based safety goals to reduce fatalities and serious injuries on all public roads. ● Projects to upgrade railway-highway grade crossings by eliminating hazards and installing protective devices. 	<ul style="list-style-type: none"> ● Intersection safety improvements ● Pavement and shoulder widening (including a passing lane to remedy an unsafe condition) ● Installation of rumble strips or another warning devices, if they do not adversely affect the safety or mobility of bicyclists and pedestrians ● Installation of skid-resistant surface at intersections or locations with high crash frequencies ● Improvements for pedestrian or bicyclist safety ● Construction and improvement of a railway-highway grade crossing safety feature, including installation of protective devices ● The conduct of a model traffic enforcement activity at a railway-highway crossing ● Construction of a traffic calming feature ● Elimination of a roadside hazard ● Installation, replacement, and other improvements of highway signage and pavement markings, or a project to maintain minimum levels of retro-reflectivity that addresses a highway safety problem consistent with the SHSP ● Installation of emergency vehicle priority control systems at signalized intersections ● Installation of traffic control or other warning devices at locations with high crash potential ● Transportation safety planning ● Collection, analysis, and improvement of safety data ● Planning integrated interoperable emergency communications equipment or operational or traffic enforcement activities (including police assistance) related to work zone safety ● Installation of guardrails, barriers (including barriers between construction work zones and traffic lanes), and crash attenuators ● The addition or retrofitting of structures or other measures to eliminate or reduce crashes involving vehicles and wildlife ● Installation of yellow-green signs and signals at pedestrian and bicycle crossings and in school zones ● Construction and operational improvements on high risk rural roads ● Geometric improvements to a road for safety purposes that improve safety ● Road safety audits ● Roadway safety infrastructure improvements consistent with FHWA's "Highway Design Handbook for Older Drivers and Pedestrians" (FHWA-RD-01-103) ● Truck parking facilities eligible for funding under Section 1401 of MAP-21 ● Systemic safety improvements ● Installation of vehicle-to-infrastructure communication equipment. ● Pedestrian hybrid beacons. ● Roadway improvements that provide separation between pedestrians and motor vehicles, including medians and pedestrian crossing islands. ● Other physical infrastructure projects not specifically enumerated in the list of eligible projects. ● Workforce development, training, and education activities

Appendices

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>Highway Safety Improvement Program(HSIP) Grouping</p> <p>(continued)</p> <div style="border: 1px solid red; padding: 5px; color: red;"> Knox MPO STIP # 1747130 TIP # 17-2017-301 </div>		<p>Activities included as part of the Highway Railroad Grade Crossing program:</p> <ul style="list-style-type: none"> ● Elimination of hazards of railway-highway crossings, including the separation or protection of grades at crossings ● Reconstruction of existing railroad grade crossing structures ● Relocation of highways to eliminate grade crossings ● Installation of protective devices ● Projects authorized from this grouping may be authorized with a different Federal percentage than shown in the grid based on one or more of the following: <ul style="list-style-type: none"> ○ 90% for certain Interstate projects under <u>23 U.S.C. 120(a)</u>; ○ 100% for certain safety items under <u>23 U.S.C. 120(c)</u>; or ○ 100% for Appalachian Development Highway System (ADHS) projects under <u>MAP-21 §1528</u> and <u>40 U.S.C. 14501</u>.

Appendices

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>National Highway Performance Program (NHPP) Grouping</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747100 TIP # 17-2017-303</p> </div>	<p>Projects for the preservation and improvement of the conditions and performance of the National Highway System (NHS), including</p> <ul style="list-style-type: none"> ● Rehabilitation, resurfacing, restoration, preservation, and operational improvements, ● Traffic operations, ● Bridge and tunnel improvements, ● Safety improvements, ● Bicycle and pedestrian improvements, and ● Environmental mitigation. 	<ul style="list-style-type: none"> ● Minor rehabilitation, pavement resurfacing, preventative maintenance, restoration, and pavement preservation treatments to extend the service life of highway infrastructure, including pavement markings and improvements to roadside hardware or sight distance ● Highway improvement work including slide repair, rock fall mitigation, drainage repairs, or other preventative work necessary to maintain or extend the service life of the existing infrastructure in a good operational condition ● Minor operational and safety improvements to intersections and interchanges such as adding turn lanes, addressing existing geometric deficiencies, and extending on/off ramps ● Capital and operating costs for intelligent transportation systems (ITS) and traffic monitoring, management, and control facilities and programs: <ul style="list-style-type: none"> ○ Infrastructure-based intelligent transportation systems (ITS) capital improvements ○ Traffic Management Center (TMC) operations and utilities ○ Freeway service patrols ○ Traveler information ● Bridge and tunnel construction (no additional travel lanes), replacement, rehabilitation, preservation, protection, inspection, evaluation, and inspector training and inspection and evaluation of other infrastructure assets, such as signs, walls, and drainage structures ● Development and implementation of a State Asset Management Plan including data collection, maintenance and integration, software costs, and equipment costs that support the development of performance-based management systems for infrastructure ● Rail-highway grade crossing improvements ● Highway safety improvements: <ul style="list-style-type: none"> ○ Installation of new or improvement of existing guardrail ○ Installation of traffic signs and signals/lights ○ Spot safety improvements ● Sidewalk improvements ● Pedestrian and/or bicycle facilities ● Traffic calming and traffic diversion improvements ● Noise walls ● Wetland and/or stream mitigation ● Environmental restoration and pollution abatement ● Control of noxious weeds and establishment of native species ● Projects authorized from this grouping may be authorized with a different Federal percentage than shown in the grid based on one or more of the following: <ul style="list-style-type: none"> ○ 90% for certain Interstate projects under 23 U.S.C. 120(a); ○ 100% for certain safety items under 23 U.S.C. 120(c); or ○ 100% for Appalachian Development Highway System (ADHS) projects under MAP-21 §1528 and 40 U.S.C. 14501.

Appendices

Grouping Category	Function of Grouping Activities	Allowable Work Types
<p>Surface Transportation Block Grant Program (STBG) Grouping</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p style="color: red; font-weight: bold;">Knox MPO STIP # 1747105 TIP# 17-2017-302</p> </div>	<p>Projects and programs for the preservation and improvement of the conditions and performance of Federal-aid highways and public roads, including:</p> <ul style="list-style-type: none"> ● Rehabilitation, resurfacing, restoration, preservation, and operational improvements on Federal-aid highways and designated routes of the Appalachian Development Highway System (ADHS) and local access roads under 40 USC 14501, ● Traffic operations on Federal-aid highways, ● Bridge and tunnel improvements on public roads, ● Safety improvements on public roads, ● Environmental mitigation ● Scenic and historic highway programs, ● Landscaping and scenic beautification, 	<p>Activities previously authorized under the Surface Transportation Program (STP):</p> <ul style="list-style-type: none"> ● Minor rehabilitation, pavement resurfacing, preventative maintenance, restoration, and pavement preservation treatments to extend the service life of highway infrastructure, including pavement markings and improvements to roadside hardware or sight distance ● Highway improvement work including slide repair, rock fall mitigation, drainage repairs, or other preventative work necessary to maintain or extend the service life of the existing infrastructure in a good operational condition ● Minor operational and safety improvements to intersections and interchanges such as adding turn lanes, addressing existing geometric deficiencies, and extending on/off ramps ● Capital and operating costs for intelligent transportation systems (ITS) and traffic monitoring, management, and control facilities and programs: <ul style="list-style-type: none"> ○ Infrastructure-based intelligent transportation systems (ITS) capital improvements ○ Traffic Management Center (TMC) operations and utilities ○ Freeway service patrols ○ Traveler information ● Bridge and tunnel construction (no additional travel lanes), replacement, rehabilitation, preservation, protection, inspection, evaluation, and inspector training and inspection and evaluation of other infrastructure assets, such as signs, walls, and drainage structures ● Development and implementation of a State Asset Management Plan including data collection, maintenance and integration, software costs, and equipment costs that support the development of performance-based management systems for infrastructure ● Rail-highway grade crossing improvements ● Highway safety improvements: <ul style="list-style-type: none"> ○ Installation of new or improvement of existing guardrail ○ Installation of traffic signs and signals/lights ○ Spot safety improvements ● Sidewalk improvements ● Pedestrian and/or bicycle facilities ● Traffic calming and traffic diversion improvements ● Transportation Alternatives as defined by 23 USC 213(B), 23 USC. 101(A)(29), and Section 1122 of MAP-21 ● Noise walls ● Wetland and/or stream mitigation ● Environmental restoration and pollution abatement ● Control of noxious weeds and establishment of native species <p>Activities previously authorized under the Transportation Enhancement Program:</p>

Appendices

<p>Surface Transportation Block Grant Program (STBG) Grouping</p> <p>(continued)</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Knox MPO STIP # 1747105 TIP# 17-2017-302</p> </div>	<ul style="list-style-type: none"> ● Historic preservation, ● On- and off-road pedestrian and bicycle facilities, ● Infrastructure projects for improving non-driver access to public transportation and enhanced mobility, ● Community improvement activities, ● Recreational Trail Program projects, ● Safe Routes to School (SRTS) projects, ● Transportation Enhancement projects, ● Transportation Alternatives projects, ● Projects for the creation, rehabilitation, and maintenance of multi-use recreational trails. 	<ul style="list-style-type: none"> ○ Pedestrian and bicycle facilities, safety, and educational activities ○ Acquisition of scenic easements and scenic or historic sites ○ Scenic or historic highway programs ○ Landscaping and other scenic beautification activities ○ Historic preservation ○ Rehabilitation and operation of historic transportation buildings, structures, or facilities ○ Preservation of abandoned railway corridors ○ Inventory, control, and removal of outdoor advertising ○ Archaeological planning and research ○ Environmental mitigation to address water pollution due to highway runoff or reduce vehicle-caused wildlife mortality while maintaining habitat connectivity ○ Establishment of transportation museums ○ Activities under the Tennessee Roadscapes grant program, including landscaping, irrigation, benches, trash cans, paths and signage <p>Activities previously authorized under the Safe Routes to School Program (SRTS):</p> <ul style="list-style-type: none"> ● Sidewalk improvements ● Traffic calming and speed reduction improvements ● Pedestrian and bicycle crossing improvements ● On-street bicycle facilities ● Off-street bicycle and pedestrian facilities ● Secure bicycle parking facilities ● Traffic diversion improvements approximately within 2 miles of a school location ● Non-infrastructure related activities: <ul style="list-style-type: none"> ○ Public awareness campaigns and outreach to press and community leaders ○ Traffic education and enforcement in the vicinity of schools <ul style="list-style-type: none"> • Student sessions on bicycle and pedestrian safety, health, and environment • Funding for training, volunteers, and managers of safe routes to school program <p>Activities previously authorized under the Transportation Alternatives Program (TAP):</p> <ul style="list-style-type: none"> ● Construction, planning, and design of on-road and off-road trail facilities for pedestrians, bicyclists, and other non-motorized forms of transportation, including: <ul style="list-style-type: none"> ○ Sidewalk improvements ○ Bicycle infrastructure ○ Pedestrian and bicycle signals ○ Traffic calming techniques ○ Lighting and other safety-related infrastructure
---	--	--

Appendices

<p>Surface Transportation Block Grant Program (STBG) Grouping</p> <p>(continued)</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p style="color: red;">Knox MPO STIP # 1747105 TIP# 17-2017-302</p> </div>	<ul style="list-style-type: none"> ● Projects for the planning, design or construction of boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways. 	<ul style="list-style-type: none"> ○ Transportation projects to achieve compliance with the Americans with Disabilities Act of 1990 ● Construction, planning, and design of infrastructure-related projects and systems that will provide safe routes for non-drivers, including children, older adults, and individuals with disabilities to access daily needs ● Conversion and use of abandoned railroad corridors for trails for pedestrians, bicyclists, or other non-motorized transportation users ● Construction of turnouts, overlooks, and viewing areas ● Community improvement activities, which include but are not limited to: <ul style="list-style-type: none"> ○ Inventory, control, or removal of outdoor advertising ○ Historic preservation and rehabilitation of historic transportation facilities ○ Vegetation management in transportation rights-of-way to improve roadwaysafety, prevent invasive species, and provide erosion control ○ Archaeological activities relating to impacts from implementation of a transportation project eligible under Title 23 of the USC ● Any environmental mitigation activity, including pollution prevention and pollution abatement activities and mitigation to: <ul style="list-style-type: none"> ○ Address stormwater management, control, and water pollution prevention or abatement related to highway construction or due to highway runoff ○ Reduce vehicle-caused wildlife mortality or to restore and maintain connectivity among terrestrial or aquatic habitats ● Recreational Trails Program activities under 23 USC 206 ● SRTS Program infrastructure-related projects, non-infrastructure-related activities (such as pedestrian and bicycle safety and educational activities advanced under the SRTS program), and SRTS Coordinator positions. ● Planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways <p>Activities previously authorized under the Recreational Trails Program (RTP):</p> <ul style="list-style-type: none"> ● Maintenance and restoration of existing recreational trails ● Development and rehabilitation of trailside and trailhead facilities and trail linkages for recreational trails ● Purchase and lease of recreational trail construction and maintenance equipment ● Construction of new recreational trails ● Acquisition of easements and fee simple title to property for recreational trails or recreational trail corridors ● Assessment of trail conditions for accessibility and maintenance ● Development and dissemination of publications and operation of educational programs to promote safety and environmental protection ● Payment of costs to the State incurred in administering the program ● Projects authorized from this grouping may be authorized with a different Federal percentage than shown in the grid based on one or more of the following: <ul style="list-style-type: none"> ○ 90% for certain Interstate projects under 23 U.S.C. 120(a); ○ 100% for certain safety items under 23 U.S.C. 120(c); or ○ 100% for Appalachian Development Highway System (ADHS) projects under MAP-21 §1528 and 40 U.S.C. 14501.
---	--	--

Knoxville Regional Transportation Planning Organization

TRANSPORTATION IMPROVEMENT PROGRAM FY 2017-2020

ORIGINAL

TIP No.	17-2017-304	Revision No.	0	Mobility Plan No.	Consistent with Mobility Plan Principle 1
TDOT PIN		STIP No.	1747120		
Project Name	PHSIP Grouping				
Lead Agency	TDOT				
Total Project Cost	\$2,406,000				

Project Description	See Appendix E: TDOT Metropolitan Groupings Definitions for a more comprehensive list of activities included but not limited for eligibility.				
Termini/Intersection					
Counties					
City/Agency					
Length		(miles)	Conformity Status	Exempt	
Additional Details					

Programmed Funds

FY	Phase	Funding Type	Total Funds	Federal	State	Local	Other
2017	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$541,350	\$60,150	\$0	\$0
2018	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$541,350	\$60,150	\$0	\$0
2019	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$541,350	\$60,150	\$0	\$0
2020	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$541,350	\$60,150	\$0	\$0
Total			\$2,406,000	\$2,165,400	\$240,600	\$0	\$0

Revision Date	
Revision Details	
Previous TIP No.	

Knoxville Regional Transportation Planning Organization

TRANSPORTATION IMPROVEMENT PROGRAM FY 2017-2020

ADJUSTED

TIP No.	17-2017-304	Revision No.	1	Mobility Plan No.	Consistent with Mobility Plan Principle 1
TDOT PIN	1747135	STIP No.	1747120		
Project Name	PHSIP Grouping				
Lead Agency	TDOT				
Total Project Cost	\$4,076,000				

Project Description	See Appendix E: TDOT Metropolitan Groupings Definitions for a more comprehensive list of activities included but not limited for eligibility.				
Termini/Intersection					
Counties					
City/Agency					
Length		(miles)	Conformity Status	Exempt	
Additional Details					

Programmed Funds

FY	Phase	Funding Type	Total Funds	Federal	State	Local	Other
2017	PE-N/PE-D/RW/CN	ACPHSIP	\$450,000	\$0	\$450,000	\$0	\$0
2017	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$601,500	\$0	\$0	\$0
2017	PE-N/PE-D/RW/CN	RPHSIP	\$720,000	\$576,000	\$144,000	\$0	\$0
2018	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$601,500	\$0	\$0	\$0
2019	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$601,500	\$0	\$0	\$0
2020	PE-N/PE-D/RW/CN	PHSIP	\$601,500	\$601,500	\$0	\$0	\$0
Total			\$3,576,000	\$2,982,000	\$594,000	\$0	\$0

Revision Date	2/14/2017
Revision Details	<p>Adding ACPHSIP (\$450,000), RPHSIP (\$720,000) funding to FY 2017. The funding was removed from STIP # 1747130, adjust 13. The PHSIP funding split has increased from a 90/10 split to 100 percent federal.</p> <p>We are adding the following language to TDOT groupings in the Knoxville MPO (HSIP, NHPP, and STBG):</p> <p>“Projects authorized from this grouping may be authorized with a different Federal percentage than shown in the grid based on one or more of the following:</p> <ul style="list-style-type: none"> · 90% for certain Interstate projects under 23 U.S.C. 120(a); · 100% for certain safety items under 23 U.S.C. 120(c); or · 100% for Appalachian Development Highway System (ADHS) projects under MAP-21 §1528 and 40 U.S.C. 14501.”
Previous TIP No.	

KNOXVILLE REGIONAL TPO TRANSPORTATION IMPROVEMENT PROGRAM FY 2017-2020

Table 1. Summary of Programmed Revenues

ORIGINAL

Funding Source	FY 2017	FY 2018	FY 2019	FY 2020	Total	Share (%)
ACPHSIP	\$450,000	\$0	\$0	\$0	\$450,000	0.10
CMAQ	\$19,703,361	\$1,802,983	\$8,255,000	\$169,000	\$29,930,344	6.58
EN	\$1,451,975	\$0	\$0	\$0	\$1,451,975	0.32
HPP	\$4,374,375	\$0	\$10,090,162	\$0	\$14,464,537	3.18
HSIP	\$3,000,000	\$3,467,360	\$3,467,360	\$3,467,360	\$13,402,080	2.95
LIC	\$602,500	\$0	\$0	\$0	\$602,500	0.13
LOCAL	\$500,000	\$0	\$0	\$0	\$500,000	0.11
L-STBG	\$36,287,916	\$7,782,400	\$6,120,000	\$0	\$50,190,316	11.03
L-STBG-TA	\$2,932,016	\$955,985	\$955,985	\$955,985	\$5,799,971	1.28
NHPP	\$123,030,884	\$90,476,577	\$6,676,577	\$43,976,577	\$264,160,615	58.07
PHSIP	\$1,101,500	\$601,500	\$601,500	\$601,500	\$2,906,000	0.64
RPHSIP	\$720,000	\$0	\$0	\$0	\$720,000	0.16
SECTION 5307	\$8,468,145	\$8,592,575	\$8,592,575	\$8,592,575	\$34,245,870	7.53
SECTION 5310	\$1,055,389	\$805,389	\$805,389	\$805,389	\$3,471,556	0.76
SECTION 5339	\$762,616	\$762,616	\$762,616	\$762,616	\$3,050,464	0.67
S-STBG	\$15,696,196	\$3,399,521	\$3,399,521	\$3,399,521	\$25,894,759	5.69
S-STBG-TA	\$2,893,254	\$0	\$0	\$0	\$2,893,254	0.64
STA	\$762,500	\$0	\$0	\$0	\$762,500	0.17
Total	\$223,792,627	\$118,646,906	\$49,726,685	\$62,730,523	\$454,896,741	100.00
Federal	\$178,773,660	\$94,652,184	\$41,066,325	\$49,852,195	\$364,344,364	80.09
State	\$31,326,368	\$21,504,618	\$7,022,650	\$11,284,618	\$71,138,254	15.64
Local	\$13,692,599	\$2,490,104	\$1,637,710	\$1,593,710	\$19,414,123	4.27
Other	\$0	\$0	\$0	\$0	\$0	0.00

Table 2. Summary of Programmed Expenditures

Funding Source	FY 2017	FY 2018	FY 2019	FY 2020	Total	Share (%)
ACPHSIP	\$450,000	\$0	\$0	\$0	\$450,000	0.10
CMAQ	\$19,703,361	\$1,802,983	\$8,255,000	\$169,000	\$29,930,344	6.58
EN	\$1,451,975	\$0	\$0	\$0	\$1,451,975	0.32
HPP	\$4,374,375	\$0	\$10,090,162	\$0	\$14,464,537	3.18
HSIP	\$3,000,000	\$3,467,360	\$3,467,360	\$3,467,360	\$13,402,080	2.95
LIC	\$602,500	\$0	\$0	\$0	\$602,500	0.13
LOCAL	\$500,000	\$0	\$0	\$0	\$500,000	0.11
L-STBG	\$36,287,916	\$7,782,400	\$6,120,000	\$0	\$50,190,316	11.03
L-STBG-TA	\$2,932,016	\$955,985	\$955,985	\$955,985	\$5,799,971	1.28
NHPP	\$123,030,884	\$90,476,577	\$6,676,577	\$43,976,577	\$264,160,615	58.07
PHSIP	\$1,101,500	\$601,500	\$601,500	\$601,500	\$2,906,000	0.64
RPHSIP	\$720,000	\$0	\$0	\$0	\$720,000	0.16
SECTION 5307	\$8,468,145	\$8,592,575	\$8,592,575	\$8,592,575	\$34,245,870	7.53
SECTION 5310	\$1,055,389	\$805,389	\$805,389	\$805,389	\$3,471,556	0.76
SECTION 5339	\$762,616	\$762,616	\$762,616	\$762,616	\$3,050,464	0.67
S-STBG	\$15,696,196	\$3,399,521	\$3,399,521	\$3,399,521	\$25,894,759	5.69
S-STBG-TA	\$2,893,254	\$0	\$0	\$0	\$2,893,254	0.64
STA	\$762,500	\$0	\$0	\$0	\$762,500	0.17
Total	\$223,792,627	\$118,646,906	\$49,726,685	\$62,730,523	\$454,896,741	100.00
Federal	\$178,773,660	\$94,652,184	\$41,066,325	\$49,852,195	\$364,344,364	80.09
State	\$31,326,368	\$21,504,618	\$7,022,650	\$11,284,618	\$71,138,254	15.64
Local	\$13,692,599	\$2,490,104	\$1,637,710	\$1,593,710	\$19,414,123	4.27
Other	\$0	\$0	\$0	\$0	\$0	0.00

KNOXVILLE REGIONAL TPO TRANSPORTATION IMPROVEMENT PROGRAM FY 2017-2020

Table 1. Summary of Programmed Revenues

ADJUSTED

Funding Source	FY 2017	FY 2018	FY 2019	FY 2020	Total	Share (%)
ACPHSIP	\$900,000	\$0	\$0	\$0	\$900,000	0.20
CMAQ	\$19,703,361	\$1,802,983	\$8,255,000	\$169,000	\$29,930,344	6.56
EN	\$1,451,975	\$0	\$0	\$0	\$1,451,975	0.32
HPP	\$4,374,375	\$0	\$10,090,162	\$0	\$14,464,537	3.17
HSIP	\$3,000,000	\$3,467,360	\$3,467,360	\$3,467,360	\$13,402,080	2.94
LIC	\$602,500	\$0	\$0	\$0	\$602,500	0.13
LOCAL	\$500,000	\$0	\$0	\$0	\$500,000	0.11
L-STBG	\$36,287,916	\$7,782,400	\$6,120,000	\$0	\$50,190,316	11.01
L-STBG-TA	\$2,932,016	\$955,985	\$955,985	\$955,985	\$5,799,971	1.27
NHPP	\$123,030,884	\$90,476,577	\$6,676,577	\$43,976,577	\$264,160,615	57.92
PHSIP	\$1,101,500	\$601,500	\$601,500	\$601,500	\$2,906,000	0.64
RPHSIP	\$1,440,000	\$0	\$0	\$0	\$1,440,000	0.32
SECTION 5307	\$8,468,145	\$8,592,575	\$8,592,575	\$8,592,575	\$34,245,870	7.51
SECTION 5310	\$1,055,389	\$805,389	\$805,389	\$805,389	\$3,471,556	0.76
SECTION 5339	\$762,616	\$762,616	\$762,616	\$762,616	\$3,050,464	0.67
S-STBG	\$15,696,196	\$3,399,521	\$3,399,521	\$3,399,521	\$25,894,759	5.68
S-STBG-TA	\$2,893,254	\$0	\$0	\$0	\$2,893,254	0.63
STA	\$762,500	\$0	\$0	\$0	\$762,500	0.17
Total	\$224,962,627	\$118,646,906	\$49,726,685	\$62,730,523	\$456,066,741	100.00
Federal	\$179,409,810	\$94,652,184	\$41,066,325	\$49,852,195	\$364,980,514	80.03
State	\$31,860,218	\$21,504,618	\$7,022,650	\$11,284,618	\$71,672,104	15.72
Local	\$13,692,599	\$2,490,104	\$1,637,710	\$1,593,710	\$19,414,123	4.26
Other	\$0	\$0	\$0	\$0	\$0	0.00

Table 2. Summary of Programmed Expenditures

Funding Source	FY 2017	FY 2018	FY 2019	FY 2020	Total	Share (%)
ACPHSIP	\$900,000	\$0	\$0	\$0	\$900,000	0.20
CMAQ	\$19,703,361	\$1,802,983	\$8,255,000	\$169,000	\$29,930,344	6.56
EN	\$1,451,975	\$0	\$0	\$0	\$1,451,975	0.32
HPP	\$4,374,375	\$0	\$10,090,162	\$0	\$14,464,537	3.17
HSIP	\$3,000,000	\$3,467,360	\$3,467,360	\$3,467,360	\$13,402,080	2.94
LIC	\$602,500	\$0	\$0	\$0	\$602,500	0.13
LOCAL	\$500,000	\$0	\$0	\$0	\$500,000	0.11
L-STBG	\$36,287,916	\$7,782,400	\$6,120,000	\$0	\$50,190,316	11.01
L-STBG-TA	\$2,932,016	\$955,985	\$955,985	\$955,985	\$5,799,971	1.27
NHPP	\$123,030,884	\$90,476,577	\$6,676,577	\$43,976,577	\$264,160,615	57.92
PHSIP	\$1,101,500	\$601,500	\$601,500	\$601,500	\$2,906,000	0.64
RPHSIP	\$1,440,000	\$0	\$0	\$0	\$1,440,000	0.32
SECTION 5307	\$8,468,145	\$8,592,575	\$8,592,575	\$8,592,575	\$34,245,870	7.51
SECTION 5310	\$1,055,389	\$805,389	\$805,389	\$805,389	\$3,471,556	0.76
SECTION 5339	\$762,616	\$762,616	\$762,616	\$762,616	\$3,050,464	0.67
S-STBG	\$15,696,196	\$3,399,521	\$3,399,521	\$3,399,521	\$25,894,759	5.68
S-STBG-TA	\$2,893,254	\$0	\$0	\$0	\$2,893,254	0.63
STA	\$762,500	\$0	\$0	\$0	\$762,500	0.17
Total	\$224,962,627	\$118,646,906	\$49,726,685	\$62,730,523	\$456,066,741	100.00
Federal	\$179,409,810	\$94,652,184	\$41,066,325	\$49,852,195	\$364,980,514	80.03
State	\$31,860,218	\$21,504,618	\$7,022,650	\$11,284,618	\$71,672,104	15.72
Local	\$13,692,599	\$2,490,104	\$1,637,710	\$1,593,710	\$19,414,123	4.26
Other	\$0	\$0	\$0	\$0	\$0	0.00

Note: Funding tables run on 2/14/17 and reflect the addition of \$450,000 total ACPHSIP (100% state) and \$720,000 total RPHSIP (\$576,000 federal/\$144,000 state) to FY 2017.