

EXHIBIT B-5

SCOPE OF 395 EARLY WORK

[SEE ATTACHED]

EXHIBIT B-5

SCOPE OF 395 EARLY WORK

Introduction

The LANE Team will utilize the Early Works program to maximize time gain on the 395 Project's critical path. To that end, our objective for Early Works is to strategically develop as much of the design as possible, subsequently supporting the construction activities on the critical path during the 2017 construction season. In the attached Early Works Fragnet, we depict our planned activities and costs for the Early Works with a total cost of \$9,983,300.00. The Early Works activities are organized into a Work Breakdown Structure (WBS) with five primary WBS groups and their sub-WBS groups as follows:

1. Administration
 - a. Project Milestones – Project and Contract Milestones (Early Works Period)
2. Design Management / Administration
 - a. Design Management – Subcontract, Baseline Schedule Development, and Design Management
 - b. Project Plan Development – Twelve (12) Project Development Plans
3. Early Works
 - a. LNTP Early Design – Final Design for Initial Construction, Utilities & Subsurface Exploration, Geotechnical Investigation, Surveys and Scope Validation
 - b. Sound Barriers – Sound Barrier Design
 - c. Construction – Non-permanent and Non-Destructive Construction
4. 395 Express Lanes
 - a. Design – Final Design for Segments 1 - 4
 - b. Submittals – Shop drawings (i.e. temporary barrier wall, light weight steel, reinforcing steel, forms, etc.)
5. Additional Department Improvement – Duke-Edsall Widening (DEW)
 - a. Design – Final Design for DEW
 - b. Submittals – Shop drawings (i.e. sound barrier, temporary barrier wall, etc.)

Project Plan Development

The schedule shows various submittals of the Project Development Plans. The scope of work includes both deliverable plans (RFP Part 2 Attachment 1.3) and Pre-Construction plans, and the twelve (12) Project Development Plan categories, as follows:

1. Transportation Management Plan
2. Utilities Plan
3. Environmental Management Plan
4. Design Quality Management Plan
5. Document Management Plan
6. Quality Management System Plan
7. ROW Acquisition Plan

8. Communications Plan
9. DBE/SWaM and Workforce Plan
10. Construction Quality Management Plan (CQMP)
11. Health, Safety and Security Plan
12. Design-Builder Operation Plans (Mobilization Plan, Design Execution Plan, Construction Execution Plan, Project Controls Plan and Information System & Technology Plan)

LNTB – Early Design

The WBS group represents the preliminary design activities that are required to advance the conceptual design to final design. Per the scope requirement in RFP Part 1, Section 1.3.6, the LANE Team will perform the following design supporting field work:

- a) Survey – scope of surveys work shall include both supplemental field topographical surveys and the task of updating the base mapping for the design plan.
- b) Geotechnical Investigation – scope shall include but not be limited to field investigations, borings, laboratory testing and preparation of geotechnical recommendations and reports.
- c) Utility Locating and Subsurface Utility Exploration (SUE) – scope includes but not limited to field verification of utilities, conflict evaluation, avoidance planning, cost responsibility determination, and the development of the utility relocation design plan.

Scope Validation Period

The Scope Validation Period is the 90-day period that begins with receipt of LNTP (RFP Part 4 Section 2.2). During this period, the LANE Team will thoroughly review and evaluate all of the 395 Contract Documents to verify and validate our proposed design concept and we will identify any defects, errors, or inconsistencies in the RFP documents that affect the LANE Team’s ability to complete the Project within the proposed Contract Price and Schedule. The LANE Team has identified the following areas of interest for this review period:

- a) Pentagon Improvements Validation (drainage and topography)
- b) Bridge Rehabilitation quantities
- c) Existing Drainage Structures to Remain

Final Design for Initial Construction

As the preliminary design progresses, the LANE Team will take advantage of the Early Works Program to advance the schedule and maximize the extent of construction work that can be accomplished during the first season. The LANE Team has identified the following deliverables that will allow the Project to maximize the amount of initial construction and mitigate schedule risks:

- a) MOT / SW3P for Phase 1 & 2 – the completion of these design plans will allow the LANE Team to set-up MOT and work areas for the initial phases of the Project upon NTP. This will maximize our initial construction effort.

- b) Environmental Permitting – the early start of the permitting process will advance the start of construction and reduce the risk of the permit-related schedule delays particularly in the Pentagon Reservation (Segment 4).
- c) Temporary Pavement Design – this design package will allow the LANE Team to construct temporary pavements and the asphalt wedge required for Phase 1 and Phase 2 construction, respectively.
- d) Sound Barrier Analyses – This effort concerns the development of sound barrier analyses Package A & B for SBL and NBL sound barriers. The early start of the sound barrier analyses will advance the subsequent design and thus fabrication of sound barrier units, which will reduce the risk of fabrication related schedule delays.
- e) Sound Barrier Design (Seminary Road) - early start of the sound barrier design will initiate the fabrication which will support work for the first construction season and mitigate the risk of schedule fabrication-related delays.
- f) Selected Early Works Bridge Rehabilitation - the completion of these design plans will allow the LANE Team to commence rehabilitation on a selected group of bridges upon start of construction. This will maximize the amount of initial construction and optimize the resource allocation (refer to Section 4.8.2 Schedule Narrative for further discussion).
- g) Early Demolition and ITS (Phase 3) - the completion of these design plans will allow the LANE Team to perform demolition work and install ITS duct bank immediately after the Phase 3 MOT set-up. This maximizes the amount of initial construction.
- h) DEW Early Grade and Drainage - the completion of these design plans will allow the LANE Team to perform roadway, drainage, and structural work during the first season of construction, and provide gains against the schedule’s critical path.
- i) ROW Acquisition – the acquisition of ROW is critical for providing access to project areas for construction of sound barriers, Eads Street, and DEW roadway work. The early start of this work will reduce the risks of delay and impacts to the Project.

Sound Barrier

The scope of work is to perform the final design for DEW, SBL and NBL sound barrier. The LANE Team will advance the design during the Early Works period and the fabrication of the wall post and panels can start as early as possible after NTP improve on the critical path and reduce the risk of delay which may occur during fabrication.

Construction for Non-Permanent and Non-Destructive Works

The LANE Team will take advantage of the Early Works and perform mobilization of certain Project resources. The LANE Team utilizes the following to represent the Early Works scope:

- a) Set-up Project Office –includes procurement of a land/office lease agreement and the physical set-up of the project offices (i.e. set-up field trailers, temporary utilities, etc.)
- b) Construct Laydown Yard (various locations identified under Section 4.7.1) – involves procurement of the property lease agreement, installation of security systems, miscellaneous clearing, set-up yard office space and provision of temporary utilities/drainage.

I-395 Express Lanes and Pentagon South Parking Improvements

During the Early Works Period, the LANE Team will progress the design for the four segments of the Project including the I-395 Express Lane Segments 1, 2, 3 and 4 (Pentagon Reservation). In addition, the LANE Team will develop shop drawings for stainless steel reinforcement, temporary barrier walls, light weight steel for bridge sound barrier, bearing pads, and shoring, to name a few key items.

Additional Department Improvements

During the Early Works Period, the LANE Team will perform the final design for Duke-Edsall Widening. In addition, we will also prepare shop drawings for temporary barrier wall and the Seminary Road sound barrier. The completion of this design will allow the construction of the DEW work to commence which is the first leg of the critical path leading to Service Commencement.

Conclusion

This Early Works Fragnet shows that the LANE Team's intention is to maximize the design work that is feasible during the Early Works period and to perform non-permanent/non-destructive work. Our goal is to maximize the amount of construction work during the first season in order to effect gains against the critical path and mitigate potential downstream schedule risks.

EXHIBIT B-5

ATTACHMENT 1

395 EARLY WORKS COST & ELIGIBILITY SUMMARY

January 27, 2017

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	Eligible Amounts	
						YES	NO
LANE TEAM EARLY WORKS							
Design Management				Subdivided costs per Lane submission			
Prepare/Submit Baseline Schedule	24,000	0.2%	No	D-B required to submit w/in 60 days of LNTF	Required by D-B contract but Not Eligible		24,000
Design Management, Administration & Project Controls	350,000	3.5%	Yes		Eligible	350,000	
Project Plan Development							
Transportation Management Plan	7,700	0.1%	No	Plan is intended for entire project - See Lane Clarifications	Not Eligible since it is for entire project		7,700
Utilities Plan	12,800	0.1%	Yes		Eligible	12,800	
Environmental Plan	26,000	0.3%	No	Plan is intended for entire project - See Lane Clarifications	Not Eligible since it is for entire project		26,000
Design Quality Management Plan	26,000	0.3%	Yes		Eligible	26,000	
Document Management Plan	4,200	0.0%	Yes		Eligible	4,200	

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	YES	NO
Quality Management Plan	2,200	0.0%	No	Plan is intended for entire project - See Lane Clarifications	Not Eligible since it is for entire project		2,200
ROW Acquisition Plan	24,400	0.2%	No	Must be advanced to avoid impacting schedule - See Lane Clarifications	Not Eligible since it is for entire project		24,400
Communications Plan	5,000	0.1%	No	Plan is intended for entire project - See Lane Clarifications	Not Eligible since it is for entire project		5,000
DBE/SWaM and Work Plan	8,000	0.1%	Yes		Eligible	8,000	
Construction Quality Management Plan	25,000	0.3%	No	Must be advanced to avoid impacting schedule - See Lane Clarifications	Not Eligible since it is for entire project		25,000
Health Safety and Security Plan	75,000	0.8%	Yes		Eligible	75,000	
Design-Build Operation Plans	110,000	1.1%	No	Must be advanced to avoid impacting schedule - See Lane Clarifications	Not Eligible since it is for entire project		110,000
LNTP - Early Design							
Utility & Subsurface Utility Exploration	240,000	2.4%	Yes		Eligible	240,000	
Geotechnical Investigations	980,000	9.8%	Yes		Eligible	980,000	
Survey	300,000	3.0%	Yes		Eligible	300,000	
Scope Validation	615,000	6.2%	Yes		Eligible	615,000	
MOT/SWPPP Phase 1, 2	205,000	2.1%	Partial	MOT @ \$114,800 & SWPPP @ \$90,200 - See Lane Clarifications	Split Eligible/Non-Eligible per Clarification	90,200	114,800

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	YES	NO
Environmental Permitting	190,000	1.9%	Yes		Eligible	190,000	
Sound Barrier Analysis - A (SBL)	260,000	2.6%	Yes		Eligible	260,000	
Sound Barrier Analysis - B (NBL)	245,000	2.5%	Yes		Eligible	245,000	
Sound Barrier Design - Seminary Road	180,000	1.8%	Yes		Eligible	180,000	
Early Bridge Rehab Package	220,000	2.2%	Yes/Condition	See Lane Clarifications	Eligible if starts after NEPA Decision	220,000	
Early Demolition and ITS Package							
Develop MOT / SWPPP Phase 3 Design	190,000	1.9%	Partial	MOT @ \$87,400 & SWPPP @ \$102,600 - See Lane Clarifications	Split Eligible/Non-Eligible per Clarification	102,600	87,400
Develop Roadway Demolition Design	94,000	0.9%	Yes	Demolition contains some ITS related work - See Lane Clarifications	Eligible - ITS work is conduit related	94,000	
QA/QC Early Demolition and ITS Package	16,000	0.2%	Yes	QA/QC @ \$8,000 & ITS @ \$8,000 - See Lane Clarifications	Eligible	16,000	
DEW Early Grade & Drain Package							
Develop SWPPP - DEW Early Grade & Drain	88,000	0.9%	Yes		Eligible	88,000	
Develop DEW Early Drainage Design	88,000	0.9%	Yes		Eligible	88,000	
Develop MOT / SWPPP Phase 3 Design	66,000	0.7%	Partial	MOT @ \$36,080 & SWPPP @ \$51,920 - See Lane Clarifications (41% / 59%)	Split Eligible/Non-Eligible at 50%/50%	33,000	33,000

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	YES	NO
QA/QC Early Demolition and ITS Package (Should be QA/QC DEW Early Grade and Drainage Package)	18,000	0.2%	Partial	MOT @ \$9,000 & SWPPP @ \$9,000 - See Lane Clarifications	Split Eligible/Non-Eligible at 50%/50%	9,000	9,000
ROW Acquisition	75,000	0.8%	No		Not Eligible - ROW related		75,000
Sound Barriers							
Geotechnical - SBL Barrier	225,000	2.3%	Yes	None of the work in this group of Activities is related to the Seminary Road Sound Walls - See Lane Clarifications	Eligible	225,000	
Coordinate 3rd Party & Government Approvals	55,000	0.6%	No		Not Eligible		55,000
Coord. Utilities, ROW & Permitting	55,000	0.6%	No		Not Eligible		55,000
Final Sound Barrier Configuration & Aesthetics	30,000	0.3%	Yes		Eligible	30,000	
Geotechnical - NBL Barrier	125,000	1.3%	Yes		Eligible	125,000	
Coordinate 3rd Party & Government Approvals	15,000	0.2%	No		Not Eligible		15,000
Coordinate Utilities, ROW & Permitting	15,000	0.2%	No		Not Eligible		15,000
Final Sound Barrier Configuration & Aesthetics	10,000	0.1%	Yes		Eligible	10,000	
Construction							
Early Work Construction Staff	750,000	7.5%	Partially Yes w/ Condition	\$250K for Constructability Reviews, \$400K for work associated w/ Early Works Scope Validation and \$100K for gen. construction preparation - See Lane Clarifications	Eligibility agreed for Constructability Reviews if they occur after NEPA Decision. Eligibility agreed for Early Works Scope Validation. General construction preparation Not Eligible.	650,000	100,000

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	YES	NO
Construct Laydown Yard, Early Work - Project Wide	500,000	5.0%	No		Not Eligible		500,000
Set-up Field Office, Early Work - Project Wide	650,000	6.5%	No		Not Eligible		650,000
Design							
<i>Segment 1 - Broken down into</i>				See more clarifications below			
Roadway Design	68,000	0.7%	Yes		Eligible	68,000	
Geotechnical Design	55,000	0.6%	Yes		Eligible	55,000	
Structures Design	40,000	0.4%	Partial	Yes except for toll gantries	Eligible except for toll gantries	20,000	20,000
Drainage Design	65,000	0.7%	Yes		Eligible	65,000	
ITS / TTMS Design	30,000	0.3%	No	No due to TTMS design	Not Eligible - TTMS related		30,000
Utilities Design	10,000	0.1%	Yes		Eligible	10,000	
Signing & Illumination Design	15,000	0.2%	Yes	Yes due to intermediate design only	Eligible	15,000	
Maintenance of Traffic Design	50,000	0.5%	No		Not Eligible - MOT related		50,000
Design Submittal - Segment 1 Package	55,000	0.6%	Yes		Eligible	55,000	
<i>Segment 2 - Broken down into</i>				Segment broken down one more level w/ clarifications below			
Roadway Design	230,000	2.3%	Yes		Eligible	230,000	
Drainage Design	206,000	2.1%	Yes		Eligible	206,000	
Structures Design	80,000	0.8%	Partial	Yes except for toll gantries	Eligible except for toll gantries	72,000	8,000

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	YES	NO
Geotechnical Design	60,000	0.6%	Yes		Eligible	60,000	
Maintenance of Traffic Design	70,000	0.7%	No		Not Eligible - MOT related		70,000
ITS / TTMS Design	80,000	0.8%	TBD	No due to TTMS design	Not Eligible - TTMS related		80,000
Signing & Illumination Design	30,000	0.3%	Yes	Yes due to intermediate design only	Eligible	30,000	
Utilities Design	30,000	0.3%	Yes		Eligible	30,000	
Design Submittal - Segment 2 Package	50,000	0.5%	Yes		Eligible	50,000	
Segment 3 - Broken down into			Generally Yes	Segment broken down one more level w/ clarifications below			
Roadway Design	200,000	2.0%	Yes		Eligible	200,000	
Drainage Design	50,000	0.5%	Yes		Eligible	50,000	
Structures Design	340,000	3.4%	Partial	Yes except for toll gantries	Eligible except for toll gantries	320,000	20,000
Geotechnical Design	60,000	0.6%	Yes		Eligible	60,000	
Maintenance of Traffic Design	40,000	0.4%	No		Not Eligible - MOT related		40,000
Utilities Design	30,000	0.3%	Yes		Eligible	30,000	
Design Submittal - Segment 3 Package	27,000	0.3%	Yes		Eligible	27,000	
Segment 4 (Pentagon)			Yes		Segment broken down one more level w/ clarifications below		
Roadway	40,000	0.4%	Yes		Eligible	40,000	
Drainage	60,000	0.6%	Yes		Eligible	60,000	

ITEM	COST	% Total	Eligibility	Clarifications Since 12/12/16 Meeting	Agreements @ 01/26/17 Meeting	YES	NO
Traffic Signal	40,000	0.4%	Yes		Eligible	40,000	
Maintenance of Traffic	15,000	0.2%	No		Not Eligible - MOT related		15,000
Utilities	20,000	0.2%	Yes		Eligible	20,000	
Signing & Illumination	5,000	0.1%	Yes		Eligible	5,000	
Design Submittal	74,000	0.7%	Yes		Eligible	74,000	
Design - DEW							
Structures	205,000	2.1%	Yes		Eligible	205,000	
Drainage	65,000	0.7%	Yes		Eligible	65,000	
Roadway	68,000	0.7%	Yes		Eligible	68,000	
ITS / TTMS / Traffic Signal	40,000	0.4%	No		Not Eligible - ITS/TTMS related		40,000
MOT	25,000	0.3%	No		Not Eligible - MOT related		25,000
Geotechnical	100,000	1.0%	Yes		Eligible	100,000	
Utilities	30,000	0.3%	Yes		Eligible	30,000	
Signing & Illumination	25,000	0.3%	Yes		Eligible	25,000	
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TOTAL =	9,983,300	100%				7,651,800	2,331,500

NOTES:

1. Items and amounts above were agreed to by representatives from FHWA, VDOT and Transurban/95 Express Lanes LLC during a meeting held on 01/26/17.
2. No final design efforts can proceed until after the NEPA Decision.
3. Submittals / Packages to be submitted as part of Early Works.

EXHIBIT B-5

ATTACHMENT 2

EARLY WORKS EARNED VALUE SCHEDULE

EXHIBIT B-5

ATTACHMENT 2

EARLY WORKS EARNED VALUE SCHEDULE

					01-Feb-17 22:16	
Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost	
All Resources ALL RESOURCES		15-Feb-17	10-Aug-17	127	\$9,983,300.00	
PROJECT RESOURCES PROJECT RESOURCES		15-Feb-17	10-Aug-17	127	\$9,983,300.00	
JOB SPECIFIC Job Specific Resources		15-Feb-17	10-Aug-17	127	\$9,983,300.00	
XYXY I-395 Express Lanes		15-Feb-17	10-Aug-17	127	\$9,983,300.00	
D-1 395 Express Lanes Work		15-Feb-17	10-Aug-17	127	\$7,833,240.00	
D-1-01 EARLY WORKS		15-Feb-17	10-Aug-17	127	\$7,833,240.00	
395 Express Lane Project - Initial Baseline Schedule With Revenue		15-Feb-17	10-Aug-17	127	\$7,833,240.00	
Design Management / Admin		15-Feb-17	17-Jul-17	109	\$560,240.00	
Project Plan Development		15-Feb-17	07-Jun-17	81	\$261,040.00	
Design Quality Management Plan		15-Feb-17	18-Apr-17	45	\$20,600.00	
DM-1000	Develop DQMP	15-Feb-17	28-Mar-17	30	\$20,000.00	
DM-1080	Transurban Review and Approve DQMP	29-Mar-17	18-Apr-17	21	\$800.00	
Environmental Management Plan		15-Feb-17	30-May-17	75	\$20,800.00	
DM-1010	Develop Environmental Management Plan	15-Feb-17	09-May-17	60	\$20,000.00	
DM-1100	Transurban Review and Approve Environmental Management Plan	10-May-17	30-May-17	21	\$800.00	
Utilities Plan		15-Feb-17	02-May-17	55	\$10,240.00	
DM-1020	Develop Utilities Plan	15-Feb-17	11-Apr-17	40	\$9,600.00	
DM-1120	Transurban Review and Approve Utilities Plan	12-Apr-17	02-May-17	21	\$640.00	
Transportation Management Plan		15-Feb-17	02-May-17	55	\$6,160.00	
DM-1030	Develop Transportation Management Plan	15-Feb-17	11-Apr-17	40	\$6,000.00	
DM-1140	Transurban Review & Approve Transportation Management Plan	12-Apr-17	02-May-17	21	\$160.00	
Document Management Plan		15-Feb-17	18-Apr-17	45	\$3,360.00	
DM-1160	Develop Document Management Plan	15-Feb-17	28-Mar-17	30	\$3,200.00	
DM-1180	Transurban Review and Approve Document Management Plan	29-Mar-17	18-Apr-17	21	\$160.00	
Quality Management System Plan		15-Feb-17	30-May-17	75	\$1,760.00	
DM-1190	Develop Quality Management System Plan	15-Feb-17	09-May-17	60	\$1,600.00	
DM-1210	Transurban Review and Approve Quality Management System Plan	10-May-17	30-May-17	21	\$160.00	
ROW Acquisition Plan		15-Feb-17	30-May-17	75	\$19,520.00	
DM-1220	Develop ROW Acquisition and Relocation Plan	15-Feb-17	09-May-17	60	\$19,200.00	
DM-1240	Transurban Review and Approve ROW Acquisition and Relocation Plan	10-May-17	30-May-17	21	\$320.00	
Communication Plan		15-Feb-17	30-May-17	75	\$4,000.00	
DM-1250	Develop Communications Plan	15-Feb-17	09-May-17	60	\$4,000.00	
DM-1270	Transurban Review and Approve Communications Plan	10-May-17	30-May-17	21	\$0.00	
DBE/SWaM and Work Plan		15-Feb-17	07-Jun-17	81	\$6,400.00	
DM-1280	Develop DBE/SWaM and Workforce Plan	15-Feb-17	09-May-17	60	\$6,400.00	
DM-1300	Transurban DBE/SWaM and Workforce Plan	10-May-17	07-Jun-17	20	\$0.00	
Construction Quality Management Plan (CQMP)		15-Feb-17	30-May-17	75	\$20,800.00	
DM-1310	Develop CQMP	15-Feb-17	09-May-17	60	\$20,000.00	
DM-1330	Transurban Review and Approve CQMP	10-May-17	30-May-17	21	\$0.00	
Health Safety and Security Plan		15-Feb-17	18-Apr-17	45	\$60,000.00	
DM-1340	Develop Health Safety and Security Plan	15-Feb-17	28-Mar-17	30	\$60,000.00	
DM-1360	Transurban Review and Approve Health Safety and Security Plan	29-Mar-17	18-Apr-17	21	\$0.00	
Design-Builder Operation Plans		15-Feb-17	30-May-17	75	\$88,000.00	
DM-1370	Develop Design-Builder Operations Plans	15-Feb-17	09-May-17	60	\$88,000.00	
DM-1390	Transurban Review Design-Builder Operations Plans (FY1)	10-May-17	30-May-17	21	\$0.00	
Design Management		15-Feb-17	17-Jul-17	109	\$299,200.00	
Design Management, Admin, & Project Controls		15-Feb-17	17-Jul-17	109	\$299,000.00	
DM-1040	Design Management, Admin, & Project Controls (Early Work)	15-Feb-17	17-Jul-17	107	\$280,000.00	
Prepare and Submit Baseline Schedule		15-Feb-17	30-May-17	75	\$19,200.00	
DM-1050	Prepare and Submit Baseline Schedule	15-Feb-17	11-Apr-17	40	\$12,000.00	
DM-1400	Transurban Review Baseline Schedule	12-Apr-17	02-May-17	21	\$0.00	
DM-1410	Address Transurban's Comment on Baseline Schedule	03-May-17	09-May-17	5	\$7,200.00	
DM-1420	Transurban Review Revised Baseline Schedule	10-May-17	30-May-17	21	\$0.00	
Early Work		15-Feb-17	01-Aug-17	120	\$5,302,000.00	
LNTN - Early Design		15-Feb-17	01-Aug-17	120	\$3,252,000.00	
Utilities & subsurface Utility Exploration		15-Feb-17	28-Jun-17	96	\$192,000.00	
LNTN-1150	Perform SUE Field Work	15-Feb-17	31-May-17	75	\$150,000.00	
LNTN-2115	Perform SUE Field Work - Pentagon Reservation	22-Mar-17	28-Mar-17	5	\$10,000.00	
LNTN-1155	Update Base Mapping & Utility Records	01-Jun-17	21-Jun-17	15	\$24,000.00	
LNTN-1160	Submit (internal) SUE Data for Design Input	22-Jun-17	28-Jun-17	5	\$8,000.00	
Geotechnical Investigation		15-Feb-17	17-Jul-17	109	\$947,500.00	
Boring Plan		15-Feb-17	28-Feb-17	10	\$10,000.00	
LNTN-1070	Boring Plan Development & Approval	15-Feb-17	28-Feb-17	10	\$10,000.00	
Access / ROE / Permits		15-Feb-17	07-Mar-17	15	\$7,500.00	

EARLY WORKS EARNED VALUE SCHEDULE

		01-Feb-17 22:16			
Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost
LNTN-1080	Access / ROE / Permits	15-Feb-17	07-Mar-17	15	\$7,500.00
Geotechnical Borings		01-Mar-17	17-Jul-17	99	\$890,000.00
LNTN-1090	Boring and Utility Locates	01-Mar-17	21-Mar-17	15	\$4,000.00
LNTN-1100	Geotechnical Borings - Early Work	05-Apr-17	17-Jul-17	72	\$686,000.00
LNTN-1110	Geotechnical Lab Testing - Early Work	26-Apr-17	17-Jul-17	57	\$200,000.00
Temporary and Permanent Pavement Report		25-May-17	22-Jun-17	21	\$40,000.00
LNTN-1120	Develop Geotechnical Report and Recommendations	25-May-17	22-Jun-17	20	\$40,000.00
Survey		15-Feb-17	06-Jul-17	102	\$240,000.00
LNTN-1790	Perform ROW Survey	15-Feb-17	19-May-17	68	\$40,000.00
LNTN-1060	Locate Geotechnical Test Holes and Utilities	15-Feb-17	06-Jul-17	100	\$21,600.00
LNTN-1050	Perform Supplemental Design Survey	15-Feb-17	31-May-17	75	\$156,800.00
LNTN-1065	Locate Geotechnical Test Holes and Utilities - Pentagon Reservation	29-Mar-17	04-Apr-17	5	\$2,400.00
LNTN-1055	Perform Supplemental Design Survey - Pentagon Reservation	29-Mar-17	04-Apr-17	5	\$3,200.00
LNTN-1061	Update Base Mapping	01-Jun-17	21-Jun-17	15	\$12,000.00
LNTN-1062	Submit Updated Survey Data for Design Input (Internal)	22-Jun-17	28-Jun-17	5	\$4,000.00
Scope Validation		15-Feb-17	15-May-17	64	\$415,000.00
Pavement Design Validation		15-Feb-17	15-May-17	64	\$250,000.00
LNTN-1020	Perform Pavement Design Validation	15-Feb-17	15-May-17	64	\$250,000.00
Existing Drainage Structures Validation		15-Feb-17	15-May-17	64	\$65,000.00
LNTN-1030	Existing Drainage Structures Validation	15-Feb-17	15-May-17	64	\$65,000.00
Drainage & Bridge Rehabilitation Quantities		15-Feb-17	12-May-17	63	\$100,000.00
LNTN-1040	Submit Complete Scope Validation Report	15-Feb-17	12-May-17	63	\$100,000.00
Final Design for Initial Construction		15-Feb-17	01-Aug-17	120	\$1,457,500.00
MOT / SWPPP Phase 1, 2		15-Feb-17	07-Jul-17	103	\$205,000.00
LNTN-1170	Develop MOT / SWPPP Phase 1 & 2 Plan	15-Feb-17	10-May-17	61	\$155,000.00
LNTN-1180	QA/QC MOT / SWPPP Phase 1 & 2 Plan	11-May-17	01-Jun-17	15	\$22,000.00
LNTN-1200	Transurban Review MOT / SWPPP Phase 1 & 2 Plan	02-Jun-17	22-Jun-17	21	\$0.00
LNTN-1210	RFC MOT / SWPPP Phase 1 & 2 Plan	23-Jun-17	07-Jul-17	10	\$28,000.00
Environmental Permitting		15-Feb-17	17-Jul-17	109	\$190,000.00
404 / 401 Permits		15-Feb-17	17-Jul-17	109	\$65,000.00
LNTN-1220	Delineate any additional areas outside of the NEPA assessed corridor (if req'd)	15-Feb-17	21-Jun-17	90	\$40,000.00
LNTN-1250	Draft 404/401 permit application (begin at 60% plan design) - Early Work	22-Jun-17	17-Jul-17	17	\$25,000.00
408 Permits		15-Feb-17	17-Jul-17	109	\$65,000.00
LNTN-1750	Delineate any additional areas outside of the NEPA assessed corridor (if req'd)	15-Feb-17	21-Jun-17	90	\$40,000.00
LNTN-1760	Draft 408 permit application (begin at 60% plan design) - Early Work	22-Jun-17	17-Jul-17	17	\$25,000.00
Sensitive Resource Coordination		15-Feb-17	09-Jun-17	83	\$30,000.00
LNTN-1240	Provide Sensitive Resource Coordination, as needed	15-Feb-17	09-Jun-17	82	\$30,000.00
Regional and County planning and management program		15-Feb-17	17-Jul-17	109	\$30,000.00
LNTN-1290	Provide Regional and County planning and management program coordination, as needed	15-Feb-17	17-Jul-17	107	\$30,000.00
Sound Barrier Analysis - Package A (SBL)		15-Feb-17	14-Jul-17	108	\$260,000.00
LNTN-1260	Prepare Draft Noise Abatement Design Report (NADR) - Package A	15-Feb-17	25-Apr-17	50	\$230,000.00
LNTN-1270	Perform QA/QC Review of NADR - Package A	26-Apr-17	09-May-17	10	\$20,000.00
LNTN-1360	Transurban Review Draft NADR - Package A	10-May-17	08-Jun-17	21	\$0.00
LNTN-1370	Address Comment and Prepare Final NADR - Package A	09-Jun-17	29-Jun-17	15	\$10,000.00
LNTN-1390	Transurban Approves Final NADR - Package A	30-Jun-17	07-Jul-17	5	\$0.00
LNTN-1400	Department Develops Letter and Obtains Concurrence - Package A	10-Jul-17	14-Jul-17	5	\$0.00
Sound Barrier Analysis - Package B (NBL)		13-Mar-17	31-Jul-17	101	\$245,000.00
LNTN-1460	Prepare Draft Noise Abatement Design Report (NADR) - Package B	13-Mar-17	24-May-17	53	\$220,000.00
LNTN-1470	Perform QA/QC Review of NADR - Package B	25-May-17	08-Jun-17	10	\$25,000.00
LNTN-1490	Transurban Review Draft NADR - Package B	09-Jun-17	10-Jul-17	21	\$0.00
LNTN-1500	Address Comment and Prepare Final NADR - Package B	11-Jul-17	31-Jul-17	15	\$0.00
Early Bridge Rehab Package		15-Feb-17	07-Jul-17	103	\$220,000.00
LNTN-1300	Develop Early Bridge Rehab Design	15-Feb-17	24-May-17	71	\$195,000.00
LNTN-1590	QA/QC Early Bridge Rehab Design	25-May-17	08-Jun-17	10	\$17,000.00
LNTN-1610	Transurban Review Early Bridge Rehab Design	09-Jun-17	29-Jun-17	21	\$0.00
LNTN-1620	RFC Early Bridge Rehab Design	30-Jun-17	07-Jul-17	5	\$8,000.00
Early Demo and ITS Package		15-Feb-17	20-Jul-17	112	\$300,000.00
LNTN-1310	Develop MOT / SWPPP Phase 3 Design	15-Feb-17	23-May-17	70	\$190,000.00
LNTN-1640	Develop ITS Design	16-Feb-17	24-May-17	70	\$0.00
LNTN-1630	Develop Roadway Demo Design	16-Feb-17	24-May-17	70	\$94,000.00
LNTN-1650	QA/QC Early Demo and ITS Package	25-May-17	15-Jun-17	15	\$16,000.00
LNTN-1670	Transurban Review Early Demo and ITS Package	16-Jun-17	06-Jul-17	21	\$0.00
LNTN-1680	RFC Early Demo and ITS Package	07-Jul-17	20-Jul-17	10	\$0.00
ROW Acquisition		22-May-17	01-Aug-17	52	\$37,500.00

EARLY WORKS EARNED VALUE SCHEDULE

						01-Feb-17 22:16	
Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost		
Eads Street							
	LNT-1970 Title Report Preparation - Eads St	22-May-17	01-Aug-17	52	\$23,194.00		
	LNT-1960 Prepare ROW Acquisition Plats - Eads St	22-May-17	19-Jun-17	20	\$1,517.00		
	LNT-1980 Appraisals - Eads St	22-May-17	19-Jun-17	20	\$21,677.00		
	LNT-1980 Appraisals - Eads St	20-Jun-17	01-Aug-17	30	\$0.00		
I-395 Express Lane - Seg 2							
	LNT-2050 Title Report Preparation - I-395 Seg 2	22-May-17	01-Aug-17	52	\$14,306.00		
	LNT-2040 Prepare ROW Acquisition Plats - I-395 Seg 2	22-May-17	19-Jun-17	20	\$0.00		
	LNT-2040 Prepare ROW Acquisition Plats - I-395 Seg 2	22-May-17	19-Jun-17	20	\$14,306.00		
	LNT-2060 Appraisals - I-395 Seg 2	20-Jun-17	01-Aug-17	30	\$0.00		
Sound Barriers							
	SBL Sound Barrier	16-Feb-17	17-Jul-17	108	\$530,000.00		
	SBL Sound Barrier	16-Feb-17	22-Jun-17	91	\$355,000.00		
	Geotechnical - SBL Sound Barrier	13-Apr-17	22-Jun-17	51	\$225,000.00		
	Sound Barrier & Retaining Wall Memo - SBL Sound Barrier	13-Apr-17	22-Jun-17	51	\$225,000.00		
	SB-1850 Prepare/Submit Intermediate Sound Barrier & Retaining Wall Memo - SBL Sound Barr	13-Apr-17	22-Jun-17	50	\$225,000.00		
	Coordinate Third Party and Governmental Approvals	16-Feb-17	22-Jun-17	91	\$55,000.00		
	SB-1000 Coordinate Third Party and Governmental Approvals	16-Feb-17	22-Jun-17	90	\$55,000.00		
	Coordinate Utilities, ROW & Permitting	16-Feb-17	22-Jun-17	91	\$55,000.00		
	SB-1010 Coordinate Utilities, ROW & Permitting	16-Feb-17	22-Jun-17	90	\$55,000.00		
	Finalize Sound Barrier Configuration & Aesthetics	16-Feb-17	22-Jun-17	91	\$30,000.00		
	SB-1020 Finalize Sound Barrier Configuration & Aesthetics	16-Feb-17	22-Jun-17	90	\$30,000.00		
	NBL Sound Barrier	16-Feb-17	17-Jul-17	108	\$165,000.00		
	Geotechnical - NBL Sound Barrier	25-May-17	17-Jul-17	38	\$125,000.00		
	Sound Barrier & Retaining Wall Memo - NBL Sound Barrier	25-May-17	17-Jul-17	38	\$125,000.00		
	SB-1810 Prepare/Submit Intermediate Sound Barrier & Retaining Wall Memo - NBL Sound Barri	25-May-17	17-Jul-17	36	\$125,000.00		
	Coordinate Third Party and Governmental Approvals	16-Feb-17	17-Jul-17	108	\$15,000.00		
	SB-1330 Coordinate Third Party and Governmental Approvals - Early Work	16-Feb-17	17-Jul-17	106	\$15,000.00		
	Coordinate Utilities, ROW & Permitting	16-Feb-17	17-Jul-17	108	\$15,000.00		
	SB-1340 Coordinate Utilities, ROW & Permitting - Early Work	16-Feb-17	17-Jul-17	106	\$15,000.00		
	Finalize Sound Barrier Configuration & Aesthetics	16-Feb-17	17-Jul-17	108	\$10,000.00		
	SB-1350 Finalize Sound Barrier Configuration & Aesthetics - Early Work	16-Feb-17	17-Jul-17	106	\$10,000.00		
Construction							
	CE00-1010 Early Work Construction Staff for Early Work Scope Validation	15-Feb-17	21-Jun-17	91	\$1,520,000.00		
	CE00-1020 Early Work Construction Staff for Constructability Review	15-Feb-17	31-May-17	75	\$350,000.00		
	C156-1170 Construct Laydown Yard, Early Work - Project Wide	12-Apr-17	31-May-17	25	\$250,000.00		
	CE00-1000 Construct Laydown Yard, Early Work - Project Wide	19-Apr-17	31-May-17	30	\$400,000.00		
	CE00-1000 Set-Up Field Office, Early Work - Project Wide	19-Apr-17	21-Jun-17	45	\$520,000.00		
395 Express Lane							
	Design	15-Feb-17	10-Aug-17	127	\$1,971,000.00		
	Segment 1 (1633+65 to 1613+65)	15-Feb-17	10-Aug-17	127	\$1,971,000.00		
	Roadway Design - Segment 1	15-Feb-17	20-Jul-17	112	\$68,000.00		
	SG 1-1000 Develop Intermediate Roadway Design - Segment 1	15-Feb-17	20-Jul-17	112	\$68,000.00		
	SG 1-1010 Develop Final Roadway Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Drainage Design - Segment 1	15-Feb-17	20-Jul-17	112	\$65,000.00		
	SG 1-1020 Develop Intermediate Drainage Design - Segment 1	15-Feb-17	20-Jul-17	112	\$65,000.00		
	SG 1-1030 Develop Final Drainage Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Structures Design - Segment 1	15-Feb-17	20-Jul-17	112	\$40,000.00		
	Bridge Design - Segment 1	15-Feb-17	20-Jul-17	112	\$0.00		
	SG 1-1040 Develop Intermediate Bridge Design - Segment 1	15-Feb-17	20-Jul-17	112	\$0.00		
	SG 1-1050 Develop Final Bridge Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Signing & Lighting Structures Design - Segment 1	15-Feb-17	20-Jul-17	112	\$20,000.00		
	SG 1-1060 Develop Intermediate Signing & Lighting Structures Design - Segment 1	15-Feb-17	20-Jul-17	112	\$20,000.00		
	SG 1-1070 Develop Final Signing & Lighting Structures Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Toll Gantry Structures Design - Segment 1	15-Feb-17	20-Jul-17	112	\$20,000.00		
	SG 1-1080 Develop Intermediate Toll Gantry Structures Design - Segment 1	15-Feb-17	20-Jul-17	112	\$20,000.00		
	SG 1-1090 Develop Final Toll Gantry Structures Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Geotechnical Design - Segment 1	15-Feb-17	20-Jul-17	112	\$55,000.00		
	Structures Memo - Segment 1	15-Feb-17	20-Jul-17	112	\$55,000.00		
	SG 1-1120 Develop Intermediate Structures Memo - Segment 1	15-Feb-17	20-Jul-17	112	\$55,000.00		
	SG 1-1130 Develop Final Structures Memo - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	ITS / TTMS Design - Segment 1	15-Feb-17	20-Jul-17	112	\$30,000.00		
	SG 1-1160 Develop Intermediate ITS / TTMS Design - Segment 1	15-Feb-17	20-Jul-17	112	\$30,000.00		
	SG 1-1170 Develop Final ITS / TTMS Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Maintenance of Traffic (MOT) Design - Segment 1	15-Feb-17	20-Jul-17	112	\$50,000.00		
	SG 1-1140 Develop Intermediate MOT Design - Segment 1	15-Feb-17	20-Jul-17	112	\$50,000.00		
	SG 1-1150 Develop Final MOT Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00		
	Signing & Illumination Design - Segment 1	15-Feb-17	20-Jul-17	112	\$15,000.00		

EARLY WORKS EARNED VALUE SCHEDULE

		01-Feb-17 22:16			
Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost
SG 1-1180	Develop Intermediate Signing & Illumination Design - Segment 1	15-Feb-17	25-Apr-17	50	\$15,000.00
SG 1-1190	Develop Final Signing & Illumination Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00
Utilities Design - Segment 1		15-Feb-17	20-Jul-17	112	\$10,000.00
SG 1-1200	Develop Intermediate Utilities Design - Segment 1	15-Feb-17	25-Apr-17	50	\$10,000.00
SG 1-1210	Develop Final Utilities Design - Segment 1	01-Jun-17	20-Jul-17	35	\$0.00
Design Submittal - Segment 1 Package		26-Apr-17	28-Jun-17	46	\$55,000.00
Intermediate Design Submittal - Segment 1 Package		26-Apr-17	28-Jun-17	46	\$55,000.00
SG 1-1220	Assemble Intermediate Design Submittal - Segment 1 Package	26-Apr-17	09-May-17	10	\$22,000.00
SG 1-1230	Perform QA/QC Review Intermediate Design Submittal - Segment 1 Package	10-May-17	31-May-17	15	\$17,000.00
SG 1-1240	Constr. Review Intermediate Design Submittal - Segment 1 Package	17-May-17	31-May-17	10	\$0.00
SG 1-1260	Transurban Review Intermediate Design Submittal - Segment 1 Package	01-Jun-17	21-Jun-17	21	\$0.00
SG 1-1270	Address Review Comments Intermediate Design Submittal - Segment 1 Package	22-Jun-17	28-Jun-17	5	\$16,000.00
Segment 2 (1613+65 to 1758+65)		08-Mar-17	10-Aug-17	112	\$836,000.00
Roadway - Segment 2		08-Mar-17	10-Aug-17	112	\$230,000.00
SG 2-1000	Develop Intermediate Roadway Design - Segment 2	08-Mar-17	16-May-17	50	\$230,000.00
SG 2-1010	Develop Final Roadway Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Drainage - Segment 2		08-Mar-17	10-Aug-17	112	\$206,000.00
SG 2-1020	Develop Intermediate Drainage Design - Segment 2	08-Mar-17	16-May-17	50	\$206,000.00
SG 2-1030	Develop Final Drainage Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Structures - Segment 2		08-Mar-17	10-Aug-17	112	\$80,000.00
Bridge Design - Segment 2		08-Mar-17	10-Aug-17	112	\$64,000.00
SG 2-1310	Develop Intermediate Bridge Design - Segment 2	08-Mar-17	16-May-17	50	\$64,000.00
SG 2-1320	Develop Final Bridge Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Signing & Lighting Structures Design - Segment 2		08-Mar-17	10-Aug-17	112	\$8,000.00
SG 2-1330	Develop Intermediate Signing & Lighting Structures Design - Segment 2	08-Mar-17	16-May-17	50	\$8,000.00
SG 2-1340	Develop Final Signing & Lighting Structures Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Toll Gantry Structures Design - Segment 2		08-Mar-17	10-Aug-17	112	\$8,000.00
SG 2-1350	Develop Intermediate Toll Gantry Structures Design - Segment 2	08-Mar-17	16-May-17	50	\$8,000.00
SG 2-1360	Develop Final Toll Gantry Structures Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Geotechnical - Segment 2		08-Mar-17	10-Aug-17	112	\$60,000.00
Structures Memo - Segment 2		08-Mar-17	10-Aug-17	112	\$60,000.00
SG 2-1080	Develop Intermediate Structures Memo - Segment 2	08-Mar-17	16-May-17	50	\$60,000.00
SG 2-1090	Develop Final Structures Memo - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Maintenance of Traffic (MOT) - Segment 2		08-Mar-17	10-Aug-17	112	\$70,000.00
SG 2-1100	Develop Intermediate MOT Design - Segment 2	08-Mar-17	16-May-17	50	\$70,000.00
SG 2-1110	Develop Final MOT Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
ITS / TTMS - Segment 2		08-Mar-17	10-Aug-17	112	\$80,000.00
SG 2-1120	Develop Intermediate ITS / TTMS Design - Segment 2	08-Mar-17	16-May-17	50	\$80,000.00
SG 2-1130	Develop Final ITS / TTMS Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Signing & Illumination - Segment 2		08-Mar-17	10-Aug-17	112	\$30,000.00
SG 2-1140	Develop Intermediate Signing & Illumination Signs Design - Segment 2	08-Mar-17	16-May-17	50	\$30,000.00
SG 2-1150	Develop Final Signing & Illumination Signs Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Utilities - Segment 2		08-Mar-17	10-Aug-17	112	\$30,000.00
SG 2-1160	Develop Intermediate Utilities Design - Segment 2	08-Mar-17	16-May-17	50	\$30,000.00
SG 2-1170	Develop Final Utilities Design - Segment 2	22-Jun-17	10-Aug-17	35	\$0.00
Design Submittal - Segment 2 Package		17-May-17	12-Jul-17	41	\$50,000.00
Intermediate Design Submittal - Segment 2 Package		17-May-17	12-Jul-17	41	\$50,000.00
SG 2-1180	Assemble Intermediate Design Submittal - Segment 2 Package	17-May-17	31-May-17	10	\$29,000.00
SG 2-1190	Perform QA/QC Review Intermediate Design Submittal - Segment 2 Package	01-Jun-17	21-Jun-17	15	\$21,000.00
SG 2-1200	Constr. Review Intermediate Design Submittal - Segment 2 Package	08-Jun-17	21-Jun-17	10	\$0.00
SG 2-1220	Transurban Review Intermediate Design Submittal - Segment 2 Package	22-Jun-17	12-Jul-17	21	\$0.00
Segment 3 (1758+65 to 1882+20)		31-Mar-17	08-Jun-17	76	\$747,000.00
Roadway - Segment 3		31-Mar-17	08-Jun-17	50	\$200,000.00
SG 3-1000	Develop Intermediate Roadway Design - Segment 3	31-Mar-17	08-Jun-17	49	\$200,000.00
Drainage - Segment 3		31-Mar-17	08-Jun-17	50	\$50,000.00
SG 3-1020	Develop Intermediate Drainage Design - Segment 3	31-Mar-17	08-Jun-17	49	\$50,000.00
Structures - Segment 3		31-Mar-17	08-Jun-17	50	\$340,000.00
Bridge Design - Segment 3		31-Mar-17	08-Jun-17	50	\$300,000.00
SG 3-1040	Develop Intermediate Bridge Design - Segment 3	31-Mar-17	08-Jun-17	49	\$300,000.00
Signing & Lighting Structures Design - Segment 3		31-Mar-17	08-Jun-17	50	\$20,000.00
SG 3-1060	Develop Intermediate Signing & Lighting Structures Design - Segment 3	31-Mar-17	08-Jun-17	49	\$20,000.00
Toll Gantry Structures Design - Segment 3		31-Mar-17	08-Jun-17	50	\$20,000.00
SG 3-1080	Develop Intermediate Toll Gantry Structures Design - Segment 3	31-Mar-17	08-Jun-17	49	\$20,000.00
Geotechnical - Segment 3		31-Mar-17	08-Jun-17	50	\$60,000.00

EARLY WORKS EARNED VALUE SCHEDULE

						01-Feb-17 22:16	
Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost		
Structures Memo - Segment 3		31-Mar-17	08-Jun-17	50	\$60,000.00		
SG-3-1120	Develop Intermediate Structures Memo - Segment 3	31-Mar-17	08-Jun-17	49	\$60,000.00		
Maintenance of Traffic (MOT) - Segment 3		31-Mar-17	08-Jun-17	50	\$40,000.00		
SG-3-1140	Develop Intermediate MOT Design - Segment 3	31-Mar-17	08-Jun-17	49	\$40,000.00		
ITS / TTMS / Traffic Signals - Segment 3		31-Mar-17	08-Jun-17	50	\$0.00		
SG-3-1160	Develop Intermediate ITS / TTMS / Traffic Signal Design - Segment 3	31-Mar-17	08-Jun-17	49	\$0.00		
Utilities - Segment 3		31-Mar-17	08-Jun-17	50	\$30,000.00		
SG-3-1200	Develop Intermediate Utilities Design - Segment 3	31-Mar-17	08-Jun-17	49	\$30,000.00		
Design Submittal - Segment 3 Package		09-Jun-17	14-Jul-17	26	\$27,000.00		
Intermediate Design Submittal - Segment 3 Package		09-Jun-17	14-Jul-17	26	\$27,000.00		
SG-3-1220	Assemble Intermediate Design Submittal - Segment 3 Package	09-Jun-17	22-Jun-17	10	\$0.00		
SG-3-1230	Perform QA/QC Review Intermediate Design Submittal - Segment 3 Package	23-Jun-17	14-Jul-17	15	\$27,000.00		
SG-3-1240	Constr. Review Intermediate Design Submittal - Segment 3 Package	30-Jun-17	14-Jul-17	10	\$0.00		
Signling & Illumination Signs - Segment 3		31-Mar-17	08-Jun-17	50	\$0.00		
SG-3-1180	Develop Intermediate Signling & Illumination Signs Design - Segment 3	31-Mar-17	08-Jun-17	49	\$0.00		
D-2 Additional Department Improvements Work		15-Feb-17	02-Aug-17	121	\$2,150,060.00		
D-2-1 EARLY WORKS		15-Feb-17	02-Aug-17	121	\$2,150,060.00		
395 Express Lane Project - Initial Baseline Schedule With Revenue		15-Feb-17	02-Aug-17	121	\$2,150,060.00		
Design Management / Admin		15-Feb-17	17-Jul-17	109	\$140,060.00		
Project Plan Development		15-Feb-17	07-Jun-17	81	\$65,260.00		
Design Quality Management Plan		15-Feb-17	18-Apr-17	45	\$5,200.00		
DM-1000	Develop DQMP	15-Feb-17	28-Mar-17	30	\$5,000.00		
DM-1080	Transurban Review and Approve DQMP	29-Mar-17	18-Apr-17	21	\$200.00		
Environmental Management Plan		15-Feb-17	30-May-17	75	\$5,200.00		
DM-1010	Develop Environmental Management Plan	15-Feb-17	09-May-17	60	\$5,000.00		
DM-1100	Transurban Review and Approve Environmental Management Plan	10-May-17	30-May-17	21	\$200.00		
Utilities Plan		15-Feb-17	02-May-17	55	\$2,580.00		
DM-1020	Develop Utilities Plan	15-Feb-17	11-Apr-17	40	\$2,400.00		
DM-1120	Transurban Review and Approve Utilities Plan	12-Apr-17	02-May-17	21	\$180.00		
Transportation Management Plan		15-Feb-17	02-May-17	55	\$1,540.00		
DM-1030	Develop Transportation Management Plan	15-Feb-17	11-Apr-17	40	\$1,500.00		
DM-1140	Transurban Review & Approve Transportation Management Plan	12-Apr-17	02-May-17	21	\$40.00		
Document Management Plan		15-Feb-17	18-Apr-17	45	\$940.00		
DM-1160	Develop Document Management Plan	15-Feb-17	28-Mar-17	30	\$800.00		
DM-1180	Transurban Review and Approve Document Management Plan	29-Mar-17	18-Apr-17	21	\$40.00		
Quality Management System Plan		15-Feb-17	30-May-17	75	\$440.00		
DM-1190	Develop Quality Management System Plan	15-Feb-17	09-May-17	60	\$400.00		
DM-1210	Transurban Review and Approve Quality Management System Plan	10-May-17	30-May-17	21	\$40.00		
ROW Acquisition Plan		15-Feb-17	30-May-17	75	\$4,880.00		
DM-1220	Develop ROW Acquisition and Relocation Plan	15-Feb-17	09-May-17	60	\$4,800.00		
DM-1240	Transurban Review and Approve ROW Acquisition and Relocation Plan	10-May-17	30-May-17	21	\$80.00		
Communication Plan		15-Feb-17	30-May-17	75	\$1,000.00		
DM-1250	Develop Communications Plan	15-Feb-17	09-May-17	60	\$1,000.00		
DM-1270	Transurban Review and Approve Communications Plan	10-May-17	30-May-17	21	\$0.00		
DBE/SWaM and Workforce Plan		15-Feb-17	07-Jun-17	81	\$1,800.00		
DM-1280	Develop DBE/SWaM and Workforce Plan	15-Feb-17	09-May-17	60	\$1,600.00		
DM-1300	Transurban Review DBE/SWaM and Workforce Plan	10-May-17	07-Jun-17	20	\$0.00		
Construction Quality Management Plan (CQMP)		15-Feb-17	30-May-17	75	\$5,000.00		
DM-1310	Develop CQMP	15-Feb-17	09-May-17	60	\$5,000.00		
DM-1330	Transurban Review and Approve CQMP	10-May-17	30-May-17	21	\$0.00		
Health Safety and Security Plan		15-Feb-17	18-Apr-17	45	\$15,000.00		
DM-1340	Develop Health Safety and Security Plan	15-Feb-17	28-Mar-17	30	\$15,000.00		
DM-1360	Transurban Review and Approve Health Safety and Security Plan	29-Mar-17	18-Apr-17	21	\$0.00		
Design-Builder Operation Plans		15-Feb-17	30-May-17	75	\$22,000.00		
DM-1370	Develop Design-Builder Operations Plans	15-Feb-17	09-May-17	60	\$22,000.00		
DM-1390	Transurban Review Design-Builder Operations Plans (FY1)	10-May-17	30-May-17	21	\$0.00		
Design Management		15-Feb-17	17-Jul-17	109	\$74,800.00		
Design Management, Admin, & Project Controls		15-Feb-17	17-Jul-17	109	\$70,000.00		
DM-1040	Design Management, Admin, & Project Controls (Early Work)	15-Feb-17	17-Jul-17	107	\$70,000.00		
Prepare and Submit Baseline Schedule		15-Feb-17	30-May-17	75	\$4,800.00		
DM-1050	Prepare and Submit Baseline Schedule	15-Feb-17	11-Apr-17	40	\$3,000.00		
DM-1400	Transurban Review Baseline Schedule	12-Apr-17	02-May-17	21	\$0.00		
DM-1410	Address Transurban's Comment on Baseline Schedule	03-May-17	09-May-17	5	\$1,800.00		
DM-1420	Transurban Review Revised Baseline Schedule	10-May-17	30-May-17	21	\$0.00		

EARLY WORKS EARNED VALUE SCHEDULE

		01-Feb-17 22:16			
Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost
Early Work		15-Feb-17	01-Aug-17	120	\$1,198,000.00
LNTN - Early Design		15-Feb-17	01-Aug-17	120	\$818,000.00
Utilities & Subsurface Utility Exploration		15-Feb-17	28-Jun-17	96	\$48,000.00
LNTN-1150	Perform SUE Field Work	15-Feb-17	31-May-17	75	\$37,500.00
LNTN-2115	Perform SUE Field Work - Pentagon Reservation	22-Mar-17	28-Mar-17	5	\$2,500.00
LNTN-1155	Update Base Mapping & Utility Records	01-Jun-17	21-Jun-17	15	\$6,000.00
LNTN-1160	Submit (internal) SUE Data for Design Input	22-Jun-17	28-Jun-17	5	\$2,000.00
Geotechnical Investigation		15-Feb-17	22-Jun-17	92	\$32,500.00
Access / ROE / Permits		15-Feb-17	07-Mar-17	15	\$7,500.00
LNTN-1080	Access / ROE / Permits	15-Feb-17	07-Mar-17	15	\$7,500.00
Geotechnical Borings		15-Mar-17	28-Mar-17	10	\$15,000.00
LNTN-1095	Boring and Utility Locates - Pentagon Reservation	15-Mar-17	21-Mar-17	5	\$1,000.00
LNTN-1105	Geotechnical Borings - Pentagon Reservation	22-Mar-17	28-Mar-17	5	\$14,000.00
Temporary and Permanent Pavement Report		25-May-17	22-Jun-17	21	\$10,000.00
LNTN-1120	Develop Geotechnical Report and Recommendations	25-May-17	22-Jun-17	20	\$10,000.00
Survey		15-Feb-17	06-Jul-17	102	\$80,000.00
LNTN-1790	Perform ROW Survey	15-Feb-17	19-May-17	68	\$10,000.00
LNTN-1060	Locate Geotechnical Test Holes and Utilities	15-Feb-17	06-Jul-17	100	\$5,400.00
LNTN-1050	Perform Supplemental Design Survey	15-Feb-17	31-May-17	75	\$39,200.00
LNTN-1065	Locate Geotechnical Test Holes and Utilities - Pentagon Reservation	29-Mar-17	04-Apr-17	5	\$600.00
LNTN-1055	Perform Supplemental Design Survey - Pentagon Reservation	29-Mar-17	04-Apr-17	5	\$800.00
LNTN-1061	Update Base Mapping	01-Jun-17	21-Jun-17	15	\$3,000.00
LNTN-1062	Submit Updated Survey Data for Design Input (Internal)	22-Jun-17	28-Jun-17	5	\$1,000.00
Scope Validation		15-Feb-17	15-May-17	64	\$200,000.00
Pentagon Improvements Validation		15-Feb-17	15-May-17	64	\$200,000.00
LNTN-1045	Perform Pentagon Improvements Validation	15-Feb-17	15-May-17	64	\$200,000.00
Final Design for Initial Construction		15-Feb-17	01-Aug-17	120	\$477,500.00
Sound Barrier Design (Seminary Road)		16-Feb-17	22-Jun-17	91	\$180,000.00
Coordinate Third Party and Governmental Approvals		16-Feb-17	15-Mar-17	20	\$10,000.00
SB-1650	Coordinate Third Party and Governmental Approvals	16-Feb-17	15-Mar-17	20	\$10,000.00
Coordinate Utilities, ROW & Permitting		16-Feb-17	15-Mar-17	20	\$10,000.00
SB-1660	Coordinate Utilities, ROW & Permitting	16-Feb-17	15-Mar-17	20	\$10,000.00
Finalize Sound Barrier Configuration & Aesthetics		16-Feb-17	15-Mar-17	20	\$5,000.00
SB-1670	Finalize Sound Barrier Configuration & Aesthetics	16-Feb-17	15-Mar-17	20	\$5,000.00
Final Design - Sound Barrier Structures Plan		16-Mar-17	22-Jun-17	71	\$155,000.00
SB-1740	Develop Final Sound Barrier Structures Plan	16-Mar-17	10-May-17	40	\$130,000.00
SB-1750	Perform QA/QC Review - Final Sound Barrier Structures Plan	11-May-17	01-Jun-17	15	\$25,000.00
SB-1780	Transurban Review - Final Sound Barrier Structures Plan	02-Jun-17	22-Jun-17	21	\$0.00
DEW Early Grade & Drain Package		15-Feb-17	14-Jul-17	108	\$260,000.00
LNTN-1700	Develop SWPPP - DEW Early Grade & Drain	15-Feb-17	16-May-17	65	\$88,000.00
LNTN-1690	Develop DEW Early Drainage Design	15-Feb-17	16-May-17	65	\$88,000.00
LNTN-1320	Develop MOT DEW Design	15-Feb-17	16-May-17	65	\$66,000.00
LNTN-1710	QA/QC DEW Early Grade and Drainage Package	17-May-17	07-Jun-17	15	\$18,000.00
LNTN-1730	Transurban Review DEW Early Grade & Drain Package	09-Jun-17	29-Jun-17	21	\$0.00
LNTN-1740	RFC DEW Early Grade & Drain Package	30-Jun-17	14-Jul-17	10	\$0.00
ROW Acquisition		22-May-17	01-Aug-17	52	\$37,500.00
DEW Phase 1 Area 2		22-May-17	01-Aug-17	52	\$25,276.00
LNTN-1810	Title Report Preparation - DEW Ph 1 Area 2	22-May-17	19-Jun-17	20	\$1,654.00
LNTN-1800	Prepare ROW Acquisition Plats - DEW Ph 1 Area 2	22-May-17	19-Jun-17	20	\$23,622.00
LNTN-1820	Appraisals - DEW Ph 1 Area 2	20-Jun-17	01-Aug-17	30	\$0.00
DEW Phase 2 Area 2		22-May-17	01-Aug-17	52	\$12,224.00
LNTN-1890	Title Report Preparation - DEW Ph 2 Area 2	22-May-17	19-Jun-17	20	\$413.00
LNTN-1880	Prepare ROW Acquisition Plats - DEW Ph 2 Area 2	22-May-17	19-Jun-17	20	\$11,811.00
LNTN-1900	Appraisals - DEW Ph 2 Area 2	20-Jun-17	01-Aug-17	30	\$0.00
Construction		15-Feb-17	21-Jun-17	91	\$380,000.00
CE00-1010	Early Work Construction Staff for Early Work Scope Validation	15-Feb-17	31-May-17	75	\$150,000.00
C156-1170	Construct Laydown Yard, Early Work - Project Wide	19-Apr-17	31-May-17	30	\$100,000.00
CE00-1000	Set-Up Field Office, Early Work - Project Wide	19-Apr-17	21-Jun-17	45	\$130,000.00
395 Express Lane		15-Feb-17	27-Jul-17	117	\$254,000.00
Design		15-Feb-17	27-Jul-17	117	\$254,000.00
Segment 4 Package (Pentagon Parking Lot)		15-Feb-17	27-Jul-17	117	\$254,000.00
Roadway - Segment 4		15-Feb-17	21-Jun-17	91	\$40,000.00
SG4-1000	Develop Initial Roadway Design - Segment 4	15-Feb-17	04-Apr-17	35	\$40,000.00
SG4-1410	Develop Intermediate Roadway Design - Segment 4	10-May-17	21-Jun-17	30	\$0.00

EARLY WORKS EARNED VALUE SCHEDULE

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Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost		
Drainage - Segment 4		15-Feb-17	21-Jun-17	91	\$60,000.00		
SG4-1020	Develop Initial Drainage Design - Segment 4	15-Feb-17	04-Apr-17	35	\$60,000.00		
SG4-1420	Develop Intermediate Drainage Design - Segment 4	10-May-17	21-Jun-17	30	\$0.00		
Traffic Signal - Segment 4		15-Feb-17	21-Jun-17	91	\$40,000.00		
SG4-1160	Develop Initial Traffic Signal Design - Segment 4	15-Feb-17	04-Apr-17	35	\$40,000.00		
SG4-1490	Develop Intermediate Traffic Signal Design - Segment 4	10-May-17	21-Jun-17	30	\$0.00		
Maintenance of Traffic (MOT) - Segment 4		15-Feb-17	21-Jun-17	91	\$15,000.00		
SG4-1140	Develop Initial MOT Design - Segment 4	15-Feb-17	04-Apr-17	35	\$15,000.00		
SG4-1480	Develop Intermediate MOT Design - Segment 4	10-May-17	21-Jun-17	30	\$0.00		
Utilities - Segment 4		15-Feb-17	21-Jun-17	91	\$20,000.00		
SG4-1200	Develop Initial Utilities Design - Segment 4	15-Feb-17	04-Apr-17	35	\$20,000.00		
SG4-1510	Develop Intermediate Utilities Design - Segment 4	10-May-17	21-Jun-17	30	\$0.00		
Signing & Illumination - Segment 4		15-Feb-17	21-Jun-17	91	\$5,000.00		
SG4-1180	Develop Initial Signing & Illumination Design - Segment 4	15-Feb-17	04-Apr-17	35	\$5,000.00		
SG4-1500	Develop Intermediate Signing & Illumination Design - Segment 4	10-May-17	21-Jun-17	30	\$0.00		
Design Submittal - Segment 4 Package		05-Apr-17	27-Jul-17	82	\$74,000.00		
Initial Design Submittal - Segment 4 Package		05-Apr-17	13-Jun-17	50	\$52,000.00		
SG4-1220	Assemble Initial Design Submittal - Segment 4 Package	05-Apr-17	18-Apr-17	10	\$22,000.00		
SG4-1230	Perform QA/QC Review Initial Design Submittal - Segment 4 Package	19-Apr-17	09-May-17	15	\$13,000.00		
SG4-1240	Constr. Review Initial Design Submittal - Segment 4 Package	26-Apr-17	09-May-17	10	\$10,000.00		
SG4-1260	Transurban Review Initial Design Submittal - Segment 4 Package	10-May-17	06-Jun-17	28	\$0.00		
SG4-1270	Address Review Comments Initial Design Submittal - Segment 4 Package	07-Jun-17	13-Jun-17	5	\$7,000.00		
Intermediate Design Submittal - Segment 4 Package		22-Jun-17	27-Jul-17	26	\$22,000.00		
SG4-1350	Assemble Intermediate Design Submittal - Segment 4 Package	22-Jun-17	06-Jul-17	10	\$22,000.00		
SG4-1360	Perform QA/QC Review Intermediate Design Submittal - Segment 4 Package	07-Jul-17	27-Jul-17	15	\$0.00		
SG4-1370	Constr. Review Intermediate Design Submittal - Segment 4 Package	14-Jul-17	27-Jul-17	10	\$0.00		
Additional Department Improvements		08-Mar-17	02-Aug-17	106	\$558,000.00		
Design - Duke Edsell Widening (DEW)		08-Mar-17	02-Aug-17	106	\$558,000.00		
Roadway - DEW		08-Mar-17	02-Aug-17	106	\$68,000.00		
SG5-1000	Develop Intermediate Roadway Design - DEW	08-Mar-17	09-May-17	45	\$68,000.00		
SG5-1010	Develop Final Roadway Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Drainage - DEW		08-Mar-17	02-Aug-17	106	\$65,000.00		
SG5-1020	Develop Intermediate Drainage Design - DEW	08-Mar-17	09-May-17	45	\$65,000.00		
SG5-1030	Develop Final Drainage Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Structures - DEW		08-Mar-17	02-Aug-17	106	\$205,000.00		
Bridge & Retaining Wall Design - DEW		08-Mar-17	02-Aug-17	106	\$100,000.00		
SG5-1040	Develop Intermediate Bridge & Retaining Wall Design - DEW	08-Mar-17	09-May-17	45	\$100,000.00		
SG5-1050	Develop Final Bridge & Retaining Wall Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Signing & Lighting Structures Design - DEW		08-Mar-17	02-Aug-17	106	\$85,000.00		
SG5-1060	Develop Intermediate Signing & Lighting Structures Design - DEW	08-Mar-17	09-May-17	45	\$85,000.00		
SG5-1070	Develop Final Signing & Lighting Structures Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Signal Structures Design - DEW		08-Mar-17	02-Aug-17	106	\$20,000.00		
SG5-1080	Develop Intermediate Signal Structures Design - DEW	08-Mar-17	09-May-17	45	\$20,000.00		
SG5-1090	Develop Final Signal Structures Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Geotechnical - DEW		08-Mar-17	02-Aug-17	106	\$100,000.00		
Sound Barrier & Retaining Wall Memo - DEW		08-Mar-17	02-Aug-17	106	\$50,000.00		
SG5-1100	Develop Intermediate Sound Barrier & Retaining Wall Memo - DEW	08-Mar-17	09-May-17	45	\$50,000.00		
SG5-1110	Develop Final Sound Barrier & Retaining Wall Memo - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Structures Memo - DEW		08-Mar-17	02-Aug-17	106	\$50,000.00		
SG5-1120	Develop Intermediate Structures Memo - DEW	08-Mar-17	09-May-17	45	\$50,000.00		
SG5-1130	Develop Final Structures Memo - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Maintenance of Traffic (MOT) - DEW		08-Mar-17	02-Aug-17	106	\$25,000.00		
SG5-1140	Develop Intermediate MOT Design - DEW	08-Mar-17	09-May-17	45	\$25,000.00		
SG5-1150	Develop Final MOT Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
ITS / TTMS / Traffic Signal - DEW		08-Mar-17	02-Aug-17	106	\$40,000.00		
SG5-1160	Develop Intermediate ITS / TTMS / Traffic Signal Design - DEW	08-Mar-17	09-May-17	45	\$40,000.00		
SG5-1170	Develop Final ITS / TTMS / Traffic Signal Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Signing & Illumination - DEW		08-Mar-17	02-Aug-17	106	\$25,000.00		
SG5-1180	Develop Intermediate Signing & Illumination Design - DEW	08-Mar-17	09-May-17	45	\$25,000.00		
SG5-1190	Develop Final Signing & Illumination Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Utilities - DEW		08-Mar-17	02-Aug-17	106	\$30,000.00		
SG5-1200	Develop Intermediate Utilities Design - DEW	08-Mar-17	09-May-17	45	\$30,000.00		
SG5-1210	Develop Final Utilities Design - DEW	15-Jun-17	02-Aug-17	34	\$0.00		
Design Submittal - DEW Package		10-May-17	05-Jul-17	41	\$0.00		

EARLY WORKS EARNED VALUE SCHEDULE

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Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Cost
	Intermediate Design Submittal - DEW Package	10-May-17	05-Jul-17	41	\$0.00
	SG5-1220 Assemble Intermediate Design Submittal - DEW Package	10-May-17	23-May-17	10	\$0.00
	SG5-1230 Perform QA/QC Review Intermediate Design Submittal - DEW Package	24-May-17	14-Jun-17	15	\$0.00
	SG5-1240 Constr. Review Intermediate Design Submittal - DEW Package	01-Jun-17	14-Jun-17	10	\$0.00
	SG5-1260 Transurban Review Intermediate Design Submittal - DEW Package	15-Jun-17	05-Jul-17	21	\$0.00
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