



**Five-Year Capital Improvement Plan – FYs 2017 - 2021**  
**Joint Committee on State Building Construction**  
**October 21, 2015**

Good morning Mr. Chairman and members of the Committee. I am Kim Torrey, Chief Fiscal Officer for the Highway Patrol, and will give you a brief overview of the agency's five year capital improvement plan.

The first project is to continue funding for existing debt service for the Vehicle Fleet Storage and Maintenance Facility at Billard Airport in Topeka (final year FY 2018). The Patrol's plan also includes a project for routine rehabilitation and repair of various agency buildings and the repair and replacement of the large scales required for motor carrier enforcement. The funding request for rehab and repair in FY 2017 is \$312,355. These funds remain unspent if no projects are necessary and are applied to reduce the amount needed in the subsequent year.

The Patrol's plan includes the replacement of water lines at the Training Academy Dorm as well as replacing two retaining walls on the Salina Training Academy campus in FY 2016. Both projects were approved by the 2015 Legislature and were to be paid with VIN Fee Funds.

The original estimate and approved amount to replace the water line was \$292,740. The specifications were drawn and the project was bid to also include the replacement of the fan coils and controls. The project was awarded to the lowest bidder at a total cost of \$783,800; \$546,000 to replace pipes and \$207,800 to replace controls and fan coils.

The cost to replace the retaining walls at the Academy was estimated to be \$631,300 and approved by the Legislature. The estimated total project cost has been adjusted to \$783,264 which includes a 10% contingency and the consultants' fees to draw specifications. This project will be bid in November 2015.

The cost of both Academy projects has exceeded the estimates that were presented to this Committee and last session's Legislature. Because of this, the Superintendent has recommended the use of Federal Forfeiture funds for both Academy projects rather than the VIN fee funds.

*Attachment 31*  
*JCSAC 10-21-15*

The FY 2017 budget utilizes VIN Fee funds for the majority of overtime, holiday and fuel costs. The VIN Fee fund balance will not be sufficient in FY 2017 to pay these budgeted costs if the funds are expended on the Academy projects in FY 2016. Federal Forfeiture funds may be used for capital improvements but it not permissible to use the forfeiture funds on budgeted operating expenditures, thus the Superintendents' funding revision request.

The final project on the Patrol's plan is the construction of the Troop F Headquarters located in Sedgwick County. The building is expected to be completed on December 1, 2015 and the total project is estimated to be slightly under budget.

Thank you for your time and attention regarding the Highway Patrol's capital improvement plan. I will stand for any questions the Committee may have.

DA-418B

Agency:

Highway Patrol

July 1, 2015

Fiscal Year 2017

## PROJECT REQUEST EXPLANATION

<b>1. Project Title</b> Debt Service - Principal - Vehicle Fleet Storage/Maint. Facility	<b>2. Project Priority</b> 1																																																																				
<b>3. Project Description and Justification</b>  <p>The Highway Patrol has worked closely with the Division of Architectural Services and the Division of Facilities Management to acquire vehicle storage space on a long-term basis. Approval of the long-term lease purchase initiated a discussion regarding the savings available through the use of bond financing rather than developer financing. During the 2001 Legislative Session, the Governor recommended and the Legislature approved the issuance of bonds to acquire this facility.</p> <p>The construction of the Storage Building was completed as anticipated in October 2001. A bond issuance was completed in November and financing to purchase offered on Nov. 9, 2001. A law suit was required to force the sale of the property. The State was successful in both the District Court and the Court of Appeals. The Developer finally appealed to the Supreme Court, which also found in favor of the state.</p>																																																																					
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Subsequent Yrs	-	-	-	-	-	-																																																															
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DA-418B

Agency:

Highway Patrol

July 1, 2015

Fiscal Year 2017

## PROJECT REQUEST EXPLANATION

<b>1. Project Title</b> KHP Training Academy Replacement Water Line	<b>2. Project Priority</b> 2																																				
<b>3. Project Description and Justification</b>  <p>This project involves the labor, materials and equipment to repipe the supply and return water mains on the 3 levels of the dormitory. The dormitory HVAC heating/cooling supply and return pipes were installed when the building was built in 1962. The pipes have deteriorated and are beginning to leak. The cast iron pipes are rusted and the exterior of the pipes are scaling with pieces of pipe flaking off. Water is supplied to these pipes at approximately 500 gallons per minute and 30 pounds per square inch and could potentially cause costly water damage to the building in the unfortunate event of a major leak or busted pipe.</p> <p>This project was approved by the 2015 Legislature and should commence in FY 2016. The project will be designed and bid to replace all of the dorm piping. The replacement of the fan coils and the replacement of the controls will be bid as two separate alternates. OFPM has estimated the total construction cost to be \$450,000.</p> <table style="width: 100%;"> <tr> <td style="width: 40%;">Estimated Contractor Cost:</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 50%; text-align: right;">450,000</td> </tr> <tr> <td>10% Contingency</td> <td style="text-align: right;"></td> <td style="text-align: right;">45,000</td> </tr> <tr> <td>11.5% OFPM Engineering Fee:</td> <td style="text-align: right;"></td> <td style="text-align: right;"><u>51,000</u></td> </tr> <tr> <td><b>Total Project Cost:</b></td> <td style="text-align: right;"><b>\$</b></td> <td style="text-align: right;"><b><u>546,000</u></b></td> </tr> </table> <p>Original was estimate received from Superior Plumbing &amp; Heating, Salina, KS on 06/24/2014 for pipe replacement only and was used to estimate total project cost in FY 2015 of \$292,740.</p>		Estimated Contractor Cost:	\$	450,000	10% Contingency		45,000	11.5% OFPM Engineering Fee:		<u>51,000</u>	<b>Total Project Cost:</b>	<b>\$</b>	<b><u>546,000</u></b>																								
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<b>6. Amount by Source of Financing:</b>																																					
Fiscal Years	VIN Fee Fund					TOTAL																															
Prior Yrs.	-	-	-	-	-	-																															
FY 2016	546,000	-	-	-	-	546,000																															
FY 2017	-	-	-	-	-	-																															
FY 2018	-	-	-	-	-	-																															
FY 2019	-	-	-	-	-	-																															
FY 2020	-	-	-	-	-	-																															
FY 2021	-	-	-	-	-	-																															
Subsequent Yrs	-	-	-	-	-	-																															
<b>Total</b>	<b>546,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>546,000</b>																															

## PROJECT REQUEST EXPLANATION

1. Project Title Building Rehabilitation/Repair and Scale Replacement	2. Project Priority 3
3. Project Description and Justification  <p>This project involves the labor, materials and equipment to replace or repair owned facilities, scales and fixtures at: (1) the Kansas Highway Patrol Training Academy campus; (2) the nine MCI stations with scales; (3) the one MCI station without scales; (4) the vehicle fleet/maintenance building; (5) the 3 VIN facilities; (6) the Valley Center troop building; (7) the Billard hangar facility; and (8) the Troop C district office building in Ellsworth. This includes, but is not limited to, scale maintenance, rehabilitation, and replacement, roof replacements or repairs, patches to parking lot surfaces, replacement sidewalks, guttering, windows and doors, as well as weather-proofing, painting and loss recovery.</p> <p>The KHP Training Academy was authorized in 1992 and includes 170,000 sq. ft. in five buildings on seventeen acres. The Valley Center Building was purchased from Wildlife and Parks in 1997 and opened for KHP use in 1998.</p> <p>Repairs needed at the Academy include Troops C, J and Dorm window replacement. Approximately half of the Dorm Building windows were replaced in FY 2015 at a cost of \$189,600. The second half is scheduled to be replaced in FY 2016 with Repair and Rehabilitation funding. The hanger facility will require the lot to be repaved. The installation of an overhead crane and adding an elevator/lift to more easily move heavy parts will be added when funds are available. Finally, the agency is researching installing Safety and Security films on facility glass doors and windows to provide blast mitigation and protection from glass breakage.</p> <p>The KHP Vehicle Fleet Storage/Maintenance Facility was authorized by the 2001 Legislative session. The 70,000 sq. ft. building was completed in November 2001 at Billard Airport in Topeka. The KHP Aircraft Hangar was authorized in 2006. A 15,000 sq. ft. building was also constructed at Billard Airport.</p>	
(continued)	
4. Estimated Project Cost: 1. Construction (including fixed equipment & sitework) 2. Architect's Fee - 3. Movable equipment - 4. Project contingency - 5. Miscellaneous costs \$312,355  Total \$312,355	5. Project Phasing: 1. Preliminary plans (including misc. costs) - 2. Final plans (including misc. costs) - 3. Construction (including misc. & other costs) \$312,355  Total \$312,355
6. Amount by Source of Financing:	

Fiscal	1. OPS Fund	2. HPTC				TOTAL
Years						
Prior Yr.	253,000	55,522	-	-	-	308,522
FY 2017	256,000	56,355	-	-	-	312,355
FY 2018	260,000	57,200	-	-	-	317,200
FY 2019	264,000	58,058	-	-	-	322,058
FY 2020	268,000	58,929	-	-	-	326,929
FY 2021	272,000	59,813	-	-	-	331,813
FY 22-26	-	-	-	-	-	-
Subsequent Yrs	-	-	-	-	-	-
Total	1,573,000	345,877	-	-	-	1,918,877

## PROJECT REQUEST EXPLANATION

1. Project Title Continuation - Bldg Rehabilitation/Repair; Scale Replacement	2. Project Priority	3 (Cont)
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## 3. Project Description and Justification

Scales are generally used 24 hours per day, 365 days per year. The constant stress of cycling from zero to 80,000 pounds causes the pads, load cells and foundations to deteriorate, as does the exposure to the elements. The scales must be constantly certified. Like all mechanical devices, the scales must eventually be replaced. The State's contract with the federal government for weight enforcement requires that these scales remain operational and that efforts not be decreased.

The large scales speed the weighing process by allowing a full dual axle to be weighed in one stop. For the less active locations, smaller scales capable of weighing only one set of axles at a time are being used. This process is more cumbersome for both the truck drivers and the scale personnel, so portable scales are often being used.

The five year plan requests are based on the following components:

	<u>All Owned</u> <u>Buildings</u> <u>Rehabilitation</u> <u>and Repair;</u> <u>Scale</u> <u>Maintenance</u>	<u>Large Scale</u> <u>Replacement</u>	<u>Total</u>
	<u>Training</u> <u>Academy</u> <u>Maintenance</u> <u>and Repair</u>		
FY 2017	56,355	130,000	312,355
FY 2018	57,200	130,000	317,200
FY 2019	58,058	130,000	322,058
FY 2020	58,929	130,000	326,929
FY 2021	59,813	130,000	331,813

The bid to replace the East Wabaunsee scale was awarded in FY 2010 at a cost of \$39,000. However, this was equipment and platform replacement, while others may require site and pit reconfiguration at a much greater cost. In FY 2018, an additional scale will be placed in West Liberal at an estimated cost of \$50,000. The budget for scale replacement should be sufficient for a worst case situation at any scale location. These funds are returned if unspent for capital improvement projects.

The list below represents the scales presently in service, the projected useful life (based on a seven year life) and the year in which replacement is budgeted.

<u>Scale</u>	<u>Location</u>	<u>Placed in</u> <u>Service</u>	<u>Projected End of</u> <u>Life</u>	<u>Budgeted End of</u> <u>Life</u>
Large	S Olathe	FY 1988	FY 1995	FY 2016
Large	E Liberal	FY 1993	FY 2000	FY 2017
Large	Kanorado	FY 1998	FY 2005	FY 2018
Large	S Haven (E)	FY 1999	FY 2006	FY 2019
Large	S Haven (W)	FY 1999	FY 2006	FY 2020
Large	N Olathe	FY 2000	FY 2007	FY 2021
Large	W Wabaunsee	FY 2001	FY 2008	FY 2022
Large	Belleville	FY 2009	FY 2016	FY 2023
Large	E Wabaunsee	FY 2010	FY 2017	FY 2024
Large	W Liberal	FY 2018	FY 2025	FY 2032

Base \$ 100,000 Most recent E.Wabaunsee @ \$39,000 (replacement, but equipment/platform only)  
 Contingency 10.00%  
 Inflation 3.00% <http://www.tradingeconomics.com/united-states/forecast>

OFPM Arch Serv 9.00%

#### Large Scale Calculation

Rounded Large	Large Scales	Fiscal Year	Base	Contingency	Fee
	\$119,000.00	2015	\$ 100,000	\$ 10,000.00	\$ 9,000.00
123000	\$122,570.00	2016	\$ 103,000	\$ 10,300.00	\$ 9,270.00
126000	\$126,247.10	2017	\$ 106,090	\$ 10,609.00	\$ 9,548.10
130000	\$130,034.87	2018	\$ 109,273	\$ 10,927.30	\$ 9,834.57
134000	\$133,935.69	2019	\$ 112,551	\$ 11,255.10	\$10,129.59
138000	\$137,954.32	2020	\$ 115,928	\$ 11,592.80	\$10,433.52
142000	\$142,093.14	2021	\$ 119,406	\$ 11,940.60	\$10,746.54
146000	\$146,355.72	2022	\$ 122,988	\$ 12,298.80	\$11,068.92
151000	\$150,746.82	2023	\$ 126,678	\$ 12,667.80	\$11,401.02
155000	\$155,268.82	2024	\$ 130,478	\$ 13,047.80	\$11,743.02
160000	\$159,926.48	2025	\$ 134,392	\$ 13,439.20	\$12,095.28

DA-418B

Agency: Highway Patrol  
 July 1, 2015  
 Fiscal Year 2017

## PROJECT REQUEST EXPLANATION

1. Project Title KHP Training Academy Replacement Retaining Wall	2. Project Priority <div style="text-align: right;">4</div>																																				
3. Project Description and Justification  <p>This project involves the replacement of two retaining walls at the KHP Training Academy in Salina. An engineering firm was hired to assess the deteriorating and leaning sections of the two retaining walls on the campus. The firm's recommendation was to replace both the west and east retaining walls at an estimated cost of \$123,800 and \$507,500 respectively.</p> <p>This project was approved by the 2015 Legislature and should commence in FY 2016. The project engineering and design services has been awarded to BG Consultants, Inc. The firm estimates the design services will be complete and ready to bid the work in October 2015.</p>  <table style="width: 100%;"> <tr> <td style="width: 30%;">Estimated Contractor Cost:</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 60%; text-align: right;">631,300</td> </tr> <tr> <td>10% Contingency</td> <td style="text-align: right;"></td> <td style="text-align: right;">63,130</td> </tr> <tr> <td>BG Consultants, Inc.:</td> <td style="text-align: right;"></td> <td style="text-align: right;">88,834</td> </tr> <tr> <td>    Design Fee</td> <td style="text-align: right;">55,572</td> <td></td> </tr> <tr> <td>    Geological Soils Investigation</td> <td style="text-align: right;">3,500</td> <td></td> </tr> <tr> <td>    Surveying Service</td> <td style="text-align: right;">8,500</td> <td></td> </tr> <tr> <td>    Construction Admin. Services</td> <td style="text-align: right;">21,262</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 30%;">Estimated Total Project Cost:</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 60%; text-align: right;"><u>783,264</u></td> </tr> </table>		Estimated Contractor Cost:	\$	631,300	10% Contingency		63,130	BG Consultants, Inc.:		88,834	Design Fee	55,572		Geological Soils Investigation	3,500		Surveying Service	8,500		Construction Admin. Services	21,262		Estimated Total Project Cost:	\$	<u>783,264</u>												
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4. Estimated Project Cost: <table style="width: 100%;"> <tr> <td style="width: 30%;">1. Construction (including fixed equipment &amp; sitework)</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 60%; text-align: right;">631,300</td> </tr> <tr> <td>2. Architect's Fee</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">88,834</td> </tr> <tr> <td>3. Movable equipment</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">-</td> </tr> <tr> <td>4. Project contingency</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">63,130</td> </tr> <tr> <td>5. Miscellaneous costs</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">-</td> </tr> <tr> <td colspan="2"></td> <td style="border-top: 1px solid black; text-align: right;">Total</td> </tr> <tr> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;">783,264</td> </tr> </table>	1. Construction (including fixed equipment & sitework)	\$	631,300	2. Architect's Fee	\$	88,834	3. Movable equipment	\$	-	4. Project contingency	\$	63,130	5. Miscellaneous costs	\$	-			Total		\$	783,264	5. Project Phasing: <table style="width: 100%;"> <tr> <td style="width: 30%;">1. Preliminary plans (including misc. costs)</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 60%; text-align: right;">88,834</td> </tr> <tr> <td>2. Final plans (including misc. costs)</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">-</td> </tr> <tr> <td>3. Construction (including misc. &amp; other costs)</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">694,430</td> </tr> <tr> <td colspan="2"></td> <td style="border-top: 1px solid black; text-align: right;">Total</td> </tr> <tr> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;">783,264</td> </tr> </table>	1. Preliminary plans (including misc. costs)	\$	88,834	2. Final plans (including misc. costs)	\$	-	3. Construction (including misc. & other costs)	\$	694,430			Total		\$	783,264
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6. Amount by Source of Financing:																																					
Fiscal Years	VIN Fee Fund					TOTAL																															
Prior Yrs.	-	-	-	-	-	-																															
FY 2016	783,264	-	-	-	-	783,264																															
FY 2017	-	-	-	-	-	-																															
FY 2018	-	-	-	-	-	-																															
FY 2019	-	-	-	-	-	-																															
FY 2020	-	-	-	-	-	-																															
FY 2021	-	-	-	-	-	-																															
Subsequent Yrs	-	-	-	-	-	-																															
Total	783,264	-	-	-	-	783,264																															



DA-418B

Agency:

Highway Patrol  
July 1, 2015  
Fiscal Year 2017

## PROJECT REQUEST EXPLANATION

1. Project Title Construction of Troop F Headquarters Facility - Wichita	2. Project Priority 5
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## 3. Project Description and Justification

The 2013 Legislature approved the usage of KHP Federal Forfeiture funds to pay for the construction of a new Troop F Headquarters building near Wichita, KS. KDOT has recently completed the site development work for the building and has been instrumental in moving the project forward. The patrol has worked closely with Emig and Associates, KBI and KDOT to complete the design development phase of the project. Construction work began in the fall of 2014 and is anticipated to be completed in September 2015.

The site for the new headquarters is in Kechi on land owned by the Kansas Department of Transportation (KDOT), near K-254 and Rock Road. The Kansas Bureau of Investigation (KBI) will co-locate with the KHP, occupying 5,338 square feet of the 21,903 square feet of total building space. KDOT plans to eventually build its own facility on this same site.

KDOT agreed to provide assistance with the construction project by providing general site development services, which significantly reduced the overall construction cost of the project. The estimated cost to construct the headquarters was \$3,499,064, which considered KDOT's participation. The project architect bid was awarded to Emig & Associates for \$251,447. The construction bid was awarded to Walz, Harman & Huffman Construction for \$3,249,800. During the 2015 Legislative session, an enhancement was requested and approved for \$559,980 to procure paving, which KDOT was unable to provide, and to have a 10% contingency factored into the project cost.

4. Estimated Project Cost:			5. Project Phasing:		
1. Construction (including fixed equipment & site work)	\$	3,249,800	1. Preliminary plans (including misc. costs)	\$	-
2. Architect's Fee	\$	251,447	2. Final plans (including misc. costs)	\$	251,447
3. Movable equipment	\$	-	3. Construction (including misc. & other costs)	\$	3,807,597
4. Project contingency	\$	324,980			
5. Miscellaneous costs:	\$	-			
Paving/Landscaping	\$	235,000			
Adjustment	\$	(2,183)			
Total	\$	4,059,044	Total		\$4,059,044

## 6. Amount by Source of Financing:

Fiscal Years	1. Fed Forf.					TOTAL
Prior Yrs.	2,613,769	-	-	-	-	2,613,769
FY 2016	1,445,275	-	-	-	-	1,445,275
FY 2017	-	-	-	-	-	-
FY 2018	-	-	-	-	-	-
FY 2019	-	-	-	-	-	-
FY 2020	-	-	-	-	-	-
FY 21-24	-	-	-	-	-	-
Subsequent Yrs	-	-	-	-	-	-
Total	4,059,044	-	-	-	-	4,059,044

FY 2014 Construction Cost Estimate: (Per Emig, April 2012)		Jul-15 Revised Cost Estimate			
		w/ KDOT	w/o KDOT		
Building 20,000 sq ft	\$ -	\$ 2,351,635	\$ 2,351,635	\$ 3,249,800	
General Site Development	0.00%	\$ -	\$ 892,642	\$ -	
Grading	0.00%	\$ 292,465	\$ 292,465	\$ -	
Utilities	0.00%	\$ 138,326	\$ 138,326	\$ -	
Sub-total Building Costs		\$ 2,782,426	\$ 3,675,068	\$ 3,249,800	
Other Costs					
Architectural Fees	8.50%	\$ 312,381	\$ 312,381	\$ 251,447	Contract Amount
OFPM Fees	1.00%	\$ 36,751	\$ 36,751	\$ -	
Paving/Landscape - Change Order				\$ 235,000	
Adjustment - Total Emig and WHH awards over authorized amount *				\$ (2,183)	
Design Contingency	10.00%	\$ 367,507	\$ 367,507	\$ 324,980	
Sub-total Fees and Other Costs		\$ 716,639	\$ 716,639	\$ 809,244	
Estimated Total Cost		\$ 3,499,065	\$ 4,391,707	\$ 4,059,044	
		FY 2015 Actual Costs to Date			
Walz, Harmon, Huffman Construction		\$ 2,381,218			
Architect - Emig & Assoc.		\$ 232,551			
		\$ -			
		\$ -			
Total Costs To Date		\$ 2,613,769			
Budget Remaining:		\$ 1,445,275			

31-10

DA-418A  
CAPITAL BUDGET--FIVE-YEAR PLAN

DIVISION OF THE BUDGET

AGENCY: Kansas Highway Patrol

PROJECT TITLE	ESTIMATED PROJECT COST	PRIOR YEARS	Current Year	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	SUBSEQUENT YEARS
1. Debt Service - Vehicle Fleet Storage/Maint Facility (only the principal portion is shown)	3,955,000	2,930,000	325,000	340,000	360,000	-	-	-	-
Debt Service	1,710,625	1,628,069	45,281	27,825	9,450	-	-	-	-
2. KHP Training Academy - Replacement of Water Line at Dormitory	546,000	-	546,000	-	-	-	-	-	-
3. Building Rehabilitation/Repair & Scale Replacement	1,918,877		308,522	312,355	317,200	322,058	326,929	331,813	-
4. KHP Training Academy - Replacement of Retaining Walls	783,264	-	783,264	-	-	-	-	-	-
5. Troop F (Sedgwick County) Headquarters Facility	4,059,044	2,613,769	1,445,275	-	-	-	-	-	-
TOTAL	10,478,921	5,543,769	2,624,797	652,355	677,200	322,058	326,929	331,813	-

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