

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0012887 **OFFICE** Design Policy & Support
Grady County
GDOT District 4 - Tifton **DATE** 4/23/2015
Bridge Replacement: SR 112 at Sapp
Creek
FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Sandy Griffin, District Design Engineer
Richard Cobb, Location Bureau Chief
Chad Hartley, District Engineer
Brent Thomas, District Preconstruction Engineer
Brad Cleveland, Area Engineer - D4, A7
Sonja Thompson, Project Manager
BOARD MEMBER - 2nd Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0012887 OFFICE Program Delivery
SR 112 @ Sapp Creek  DATE April 3, 2015

FROM: Albert V. Shelby, III, State Program Delivery Engineer

TO: Brent A. Story, P.E., State Design Policy Engineer
ATTN: Dave Peters, State Conceptual Design Group Manager

SUBJECT: **Request for Location and Design Approval**

Description and Project Proposal: The proposed project is the replacement of the existing bridge on SR 112 at Sapp Creek approximately 5 miles northwest of Cairo, GA.

The current bridge will be replaced with a wider bridge at a higher elevation to meet the requirements of the proposed pool-elevation of Grady County's Recreational Lake. The approaches will consist of two-12 ft. travel lanes, 10 ft. shoulders with 4 ft. paved and open ditches. Traffic will be maintained with an Off-Site Detour. This project is located in the 16th Land District, Land Lot 118 and GMD 753.

Concept Approval Date: March 20, 2015

Concept Update: None

Environmental Document Type, Approval Date & any Reevaluations: Categorical Exclusion, March 30, 2015

Temporary State Route Needed: No Yes Undetermined

Public Involvement:

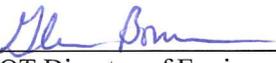
Public Information Open House Results:

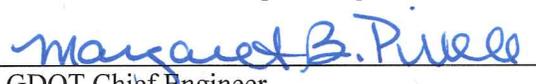
- A detour open house was held on 1/20/2015 at Grady County Library. There was a concern about the road closure in case of emergency and a complaint about the Lake being a luxury that Grady County is building.
- Four (4) comments were received.
- Two (2) comments indicated support for the project and two (2) comments indicated opposition to the proposed project.
- A total of 35 people attended including five (5) Grady County Board of Commissioners and the County Administrator.

Consistency with Approved Planning:

The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

CONCUR: 
GDOT Director of Engineering

APPROVE:  4.20.15
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: APRIL 23, 2015
(To be entered by the State Conceptual Design Group Manager)

Attachments:

- Sketch Map
- Cost Estimate
- Notice of Location and Design Approval

NOTICE OF LOCATION AND DESIGN APPROVAL

Grady County
PI# 0012887

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The Date of the Location Approval is: APRIL 23, 2015

The proposed project is the replacement of the existing bridge on SR 112 at Sapp Creek approximately 5 miles northwest of Cairo, GA.

The current bridge will be replaced with a wider bridge at a higher elevation to meet the requirements of the proposed pool-elevation of Grady County's Recreational Lake. The approaches will consist of two-12 ft. travel lanes, 10 ft. shoulders with 4 ft. paved and open ditches. Traffic will be maintained with an Off-Site Detour. This project is located in the 16th Land District, Land Lot 118 and GMD 753.

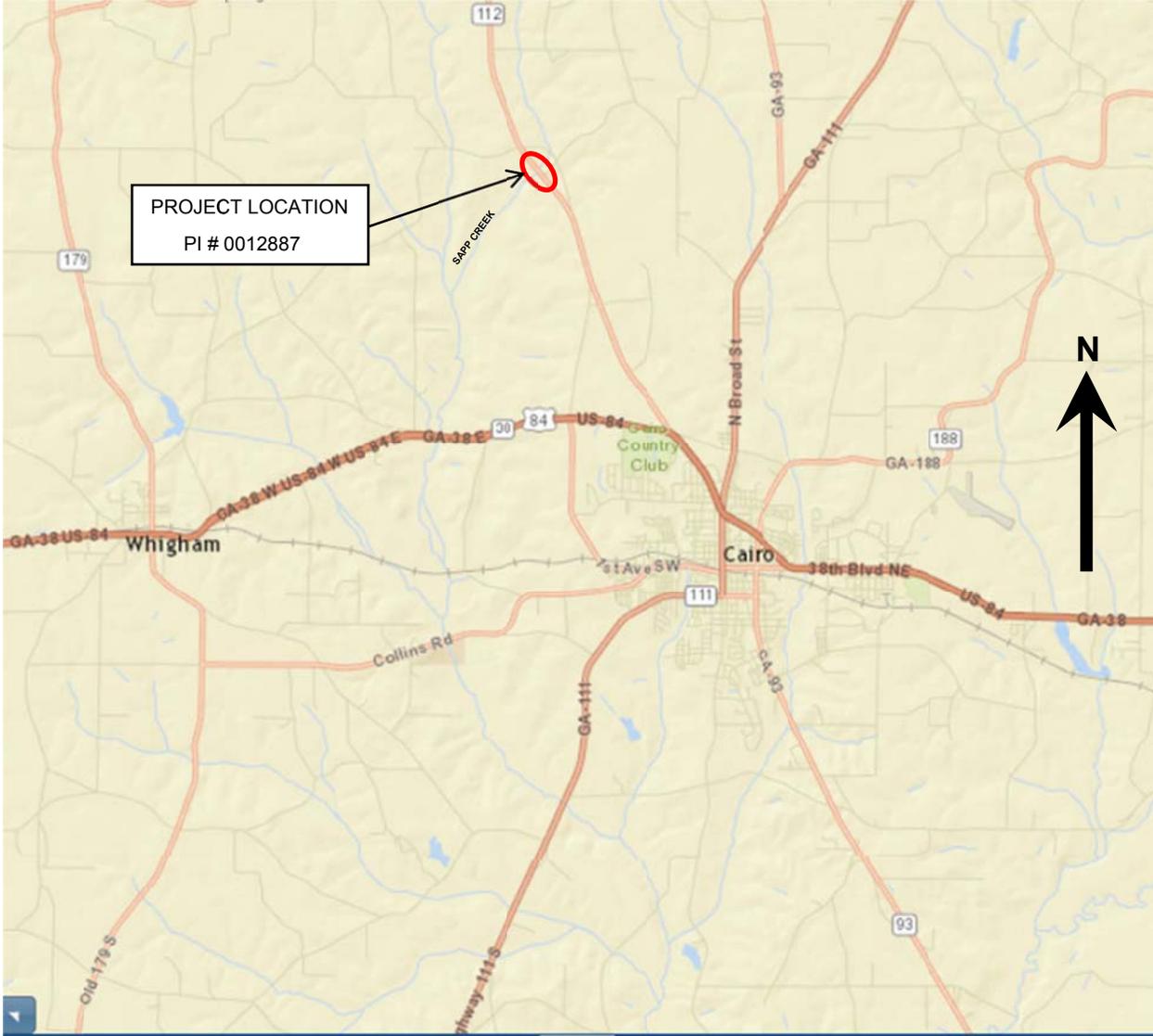
Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Brad Cleveland, Area Engineer
734 W. Crawford St
Donalsonville, GA 39845
(229)524-5760

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Albert V. Shelby, III
Office of Program Delivery
ashelby@dot.ga.gov
One Georgia Center
600 West Peachtree Street
Atlanta, GA 30308
404-631-1758

Any written request or communication in reference to this project or notice SHOULD include the Project and P.I. Numbers as noted at the top of this notice.



DETAILED COST ESTIMATE



Job: 0012887-ALT

JOB NUMBER 0012887-ALT

FED/STATE PROJECT NUMBER

SPEC YEAR: 13

DESCRIPTION: BRIDGE REPLACEMENT OVER SAPP CREEK

GRADY CO.

ITEMS FOR JOB 0012887-ALT

001 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0010	150-1000	1.000	LS	\$60,000.00000	TRAFFIC CONTROL - 0012887	\$60,000.00
0015	210-0100	1.000	LS	\$414,040.20000	GRADING COMPLETE - 0012887	\$414,040.20
0020	310-5080	5800.000	SY	\$17.39000	GR AGGR BS CRS 8IN INCL MATL	\$100,862.00
0275	402-3102	507.000	TN	\$93.71000	REC AC 9.5 MM SP,TPII, BL 1 INCL BM & HL	\$47,510.97
0035	402-3121	957.000	TN	\$75.60000	RECYL AC 25MM SP,GP1/2,BM&HL	\$72,349.20
0030	402-3190	833.000	TN	\$79.40000	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$66,140.20
0040	413-1000	825.000	GL	\$5.00000	BITUM TACK COAT	\$4,125.00
0045	433-1000	310.000	SY	\$175.00000	REINF CONC APPROACH SLAB	\$54,250.00
0050	441-0301	4.000	EA	\$1,750.00000	CONC SPILLWAY, TP 1	\$7,000.00
0055	500-3101	2.000	CY	\$750.00000	CLASS A CONCRETE	\$1,500.00
0260	550-2180	60.000	LF	\$35.39565	SIDE DR PIPE 18,H 1-10	\$2,123.74
0265	550-3618	2.000	EA	\$460.20679	SAFETY END SECTION 18,SD,6:1	\$920.41
0060	576-1018	240.000	LF	\$35.00000	SLOPE DRAIN PIPE, 18 IN	\$8,400.00
0065	634-1200	18.000	EA	\$115.00000	RIGHT OF WAY MARKERS	\$2,070.00
0070	641-1100	84.000	LF	\$75.00000	GUARDRAIL, TP T	\$6,300.00
0075	641-1200	469.000	LF	\$21.25328	GUARDRAIL, TP W	\$9,967.79
0080	641-5001	2.000	EA	\$900.00000	GUARDRAIL ANCHORAGE, TP 1	\$1,800.00
0085	641-5012	2.000	EA	\$2,225.00000	GUARDRAIL ANCHORAGE, TP 12	\$4,450.00
SUBTOTAL FOR ROADWAY:						\$863,809.51

002 - TEMP EROSION

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0125	163-0232	4.000	AC	\$600.00000	TEMPORARY GRASSING	\$2,400.00
0130	163-0240	64.000	TN	\$250.00000	MULCH	\$16,000.00
0135	163-0300	3.000	EA	\$1,200.00000	CONSTRUCTION EXIT	\$3,600.00
0140	163-0520	480.000	LF	\$15.00000	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$7,200.00
0165	163-0528	870.000	LF	\$5.00000	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$4,350.00
0145	163-0550	4.000	EA	\$200.00000	CONS & REM INLET SEDIMENT TRAP	\$800.00
0150	165-0030	3165.000	LF	\$1.00000	MAINT OF TEMP SILT FENCE, TP C	\$3,165.00
0170	165-0041	435.000	LF	\$2.50000	MAINT OF CHECK DAMS - ALL TYPES	\$1,087.50
0155	165-0101	3.000	EA	\$700.00000	MAINT OF CONST EXIT	\$2,100.00
0160	165-0105	4.000	EA	\$110.00000	MAINT OF INLET SEDIMENT TRAP	\$440.00
0180	167-1000	2.000	EA	\$500.00000	WATER QUALITY MONITORING AND SAMPLING	\$1,000.00
0185	167-1500	12.000	MO	\$500.00000	WATER QUALITY INSPECTIONS	\$6,000.00
0175	171-0030	6330.000	LF	\$3.50000	TEMPORARY SILT FENCE, TYPE C	\$22,155.00
0280	643-8200	2380.000	LF	\$1.93538	BARRIER FENCE (ORANGE), 4 FT	\$4,606.20
SUBTOTAL FOR TEMP EROSION:						\$74,903.70

DETAILED COST ESTIMATE



Job: 0012887-ALT

003 - PERM EROSION

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0295	603-2024	2223.000	SY	\$50.00000	STN DUMPED RIP RAP, TP 1, 24	\$111,150.00
0290	603-7000	2223.000	SY	\$3.83035	PLASTIC FILTER FABRIC	\$8,514.87
0090	700-6910	4.000	AC	\$1,000.00000	PERMANENT GRASSING	\$4,000.00
0095	700-7000	12.000	TN	\$65.00000	AGRICULTURAL LIME	\$780.00
0100	700-8000	4.000	TN	\$550.00000	FERTILIZER MIXED GRADE	\$2,200.00
0105	700-8100	200.000	LB	\$3.63000	FERTILIZER NITROGEN CONTENT	\$726.00
0270	716-2000	110.000	SY	\$2.07430	EROSION CONTROL MATS, SLOPES	\$228.17
SUBTOTAL FOR PERM EROSION:						\$127,699.04

004 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0190	636-1033	32.000	SF	\$22.00000	HWY SIGNS, TP1MAT,REFL SH TP 9	\$704.00
0285	636-1036	9.000	SF	\$27.00000	HWY SGN,TP1MAT,REFL SH TP 11	\$243.00
0195	636-2070	65.000	LF	\$8.00000	GALV STEEL POSTS, TP 7	\$520.00
0200	652-5451	3130.000	LF	\$0.45000	SOLID TRAF STRIPE, 5 IN, WHITE	\$1,408.50
0205	652-5452	2300.000	LF	\$0.48000	SOLID TRAF STRIPE, 5 IN, YELLO	\$1,104.00
0210	652-6502	562.000	GLF	\$0.45000	SKIP TRAF STRIPE, 5 IN, YELLOW	\$252.90
0225	653-1704	14.000	LF	\$5.00000	THERM SOLID TRAF STRIPE,24,WH	\$70.00
0215	654-1001	34.000	EA	\$3.00000	RAISED PVMT MARKERS TP 1	\$102.00
0230	654-1002	8.000	EA	\$3.00000	RAISED PVMT MARKERS TP 2	\$24.00
0220	657-1085	280.000	LF	\$6.00000	PRF PL SD PVT MKG,8,BAW,TP PB	\$1,680.00
0235	657-6085	280.000	LF	\$6.00000	PRF PL SD PVMT MKG,8,B/Y,TPPB	\$1,680.00
SUBTOTAL FOR SIGNING AND MARKING:						\$7,788.40

005 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0375	500-2100	277.000	LF	\$55.55877	CONCRETE BARRIER	\$15,389.78
0305	500-3101	77.000	CY	\$512.01920	CLASS A CONCRETE	\$39,425.48
0370	507-0027	2070.000	LF	\$325.00000	PSC BOX BEAMS, 27 IN	\$672,750.00
0310	511-1000	9388.000	LB	\$90.00000	BAR REINF STEEL	\$844,920.00
0315	511-3000	1.000	LS	\$3,154.00000	SUPERSTR REINF STEEL, BR NO - 1	\$3,154.00
0320	520-1318	355.000	LF	\$110.00000	PIL-IN-PL,METAL SHELL,18 OD	\$39,050.00
0325	520-1324	530.000	LF	\$125.00000	PIL-IN-PL,METAL SHELL,24 OD	\$66,250.00
0330	520-4318	1.000	EA	\$1,000.00000	LOAD TEST,METAL SHELL,18 OD	\$1,000.00
0335	520-4324	1.000	EA	\$1,000.00000	LOAD TEST,METAL SHELL,24 OD	\$1,000.00
0340	520-5000	109.000	LF	\$110.00000	PILOT HOLES	\$11,990.00
0345	523-1100	2.000	EA	\$3,800.00000	DYNAMIC PILE TEST	\$7,600.00
0350	533-0010	960.000	SY	\$30.00000	BR DK WATERPROOFING MEM,MED A	\$28,800.00
0355	540-1101	1.000	LS	\$60,750.00000	REM OF EX BR, STA NO - 23+00	\$60,750.00
0360	603-2024	2100.000	SY	\$50.00000	STN DUMPED RIP RAP, TP 1, 24	\$105,000.00
0365	603-7000	2100.000	SY	\$3.83698	PLASTIC FILTER FABRIC	\$8,057.66
SUBTOTAL FOR BRIDGE:						\$1,905,136.92

TOTALS FOR JOB 0012887-ALT

DETAILED COST ESTIMATE



Job: 0012887-ALT

ITEMS COST:	\$2,979,237.57
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$2,979,237.57
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$2,979,237.57

CALL NO.

PROJ. NO.	
P.I. NO.	0012887
DATE	3/31/2015

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Mar-15	\$ 2.290
DIESEL		\$ 2.840
LIQUID AC		\$ 510.00

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)-0.05]xTMTxAPL

Asphalt					
Price Adjustment (PA)					29286.75
Monthly Asphalt Cement Price month placed (APM)			\$	50%	765.00
Monthly Asphalt Cement Price month project let (APL)			\$		510.00
Total Monthly Tonnage of asphalt cement (TMT)					114.85

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	507	5.0%	25.35
25 mm SP	957	5.0%	47.85
19 mm SP	833	5.0%	41.65
	2297		114.85

BITUMINOUS TACK COAT

Price Adjustment (PA)					903.58
Monthly Asphalt Cement Price month placed (APM)			\$	50%	765.00
Monthly Asphalt Cement Price month project let (APL)			\$		510.00
Total Monthly Tonnage of asphalt cement (TMT)					3.543458261

Bitum Tack				
Gals	gals/ton	tons		
825	232.8234	3.54345826		

Preconstruction Status Report

PI Number: 0012887

SR 112 @ SAPP CREEK

COUNTY: Grady	MPO: Not Urban	PRIORITY CD:
LENGTH (MI): 0.4	TIP #:	DOT DIST: 4
PROJ NO:	MODEL YR:	CONG. DIST: 2
PROJ MGR: Thompson, Sonja	TYPE WORK: Bridges	BIKE: N
AOHD INITIALS: BWS	CONCEPT: BR REPL	MEASURE: E
OFFICE: Program Delivery	PROG TYPE: Replacement	SUFF:
CONSULTANT: No Consultant, GDOT In-House Design	BOND PROJ:	
SPONSOR: GDOT	DESIGN FIRM: GDOT D4 Design Office	

BASLINE LET DAT: 8/19/15	MGMT LET DATE: 8/21/15	Print Date: 3/19/15
SCHED LET DATE: 5/11/16	MGMT ROW DATE: 4/17/15	Page: 1
LIGHTING TYPE: None	WHO LETS?: GDOT Let	
	LET WITH:	

BASE START	BASE FINISH	TASKS	ACTUAL START	ACTUAL FINISH	%
5/23/14	2/9/15	Concept Development Summary	9/1/14		79
11/24/14	11/24/14	Concept Meeting	11/20/14	11/20/14	100
2/9/15	2/9/15	Management Concept Approval Complete			0
1/20/15	1/20/15	Public Information Open House Held			0
11/7/14	4/10/15	Environmental Document Approval Summary (11412 through 1810)			0
5/23/14	7/29/14	Database Summary			0
5/23/14	7/29/14	Field Survey Summary			0
9/9/14	11/17/14	Preliminary Bridge Design Summary	10/21/14	11/21/14	100
1/20/15	1/20/15	PFPR Inspection	1/23/15	1/23/15	100
2/18/15	3/3/15	ROW Plans Preparation	1/21/15	1/28/15	100
3/4/15	4/29/15	ROW Plans Final Approval			0
4/13/15	4/17/15	L & D Approval			0
4/29/15	4/29/15	ROW Authorization			0
11/25/14	1/12/15	Soil Survey Summary	11/17/14		100
12/8/14	1/14/15	BFI Report Summary	11/4/14	2/13/15	100
2/18/15	3/10/15	Final Construction Plans	1/26/15		73
1/15/15	2/26/15	Final Bridge Plans Preparation	11/21/14		90
4/15/15	4/15/15	FFPR Inspection			0
6/10/15	6/10/15	Submit Final Plans			0
6/30/15	6/30/15	Construction Authorization			0

Bridge: DPD 3/3/15 LRFD - PL SENT OUT 11/21/14

Design: DC; PTIP Meeting held 4/14/14; Survey data received; Concept meeting held 11/20/14; Concept submitted to PM on 12/18/14 for approval; PFPR held on 01/23/15. Working on final plans (03/09/15)

EIS: On Sched Cert for Aug15 | CENotApvd | Pugh 2Mar15

Engr Services: DKG: PFPR Responses accepted February 19, 2015. ESTIMATING: 18 Week Plan & CES Due 4/17/15.

LGPA: TO BE DETERMINED

Prog. Develop: PE STIP AMENDMENT #10 2-2014

Programming: CONFIRMED EXEMPT PER FHWA 6-1-2014

ROW: .

Utility: MRPLANS to DZN 3-3-15, Prelim. Cost Est. to PM 12/8/14

Phase	Approved	Proposed	Cost	Fund	Status	Date Auth
PE	2014	2014	\$200,000.00	L1C0	AUTHORIZED	3/18/14
ROW	LOCL	LOCL	\$0.00	LOC	PRECST	
CST	2016	2016	\$2,000,000.00	M240	PRECST	

<u>COST EST AMTS</u>		<u>STIP AMOUNTS</u>		
Activity	Cost	Fund		
PE	\$200,000.00			
ROW	\$0.00			
CST	\$2,000,000.00			
		Activity	Cost	Fund
		PE	\$200,000.00	L1C0
		ROW	\$0.00	LOC
		CST	\$2,000,000.00	M240

District Comments

SLT 03/03/15

PIOH held 01/20/15.
Concept Report submitted for approval 01/16/15
On schedule.

Pre Parcel CT	Total Parcel in ROW System:	Cond Filed:	Acquired by: N/R	DEEDS CT:
Under Review	Options Pending:	Relocations:	Acquisition MGR:	
Released:	Condemnations - Pend:	Acquired:	R/W Cert Date:	