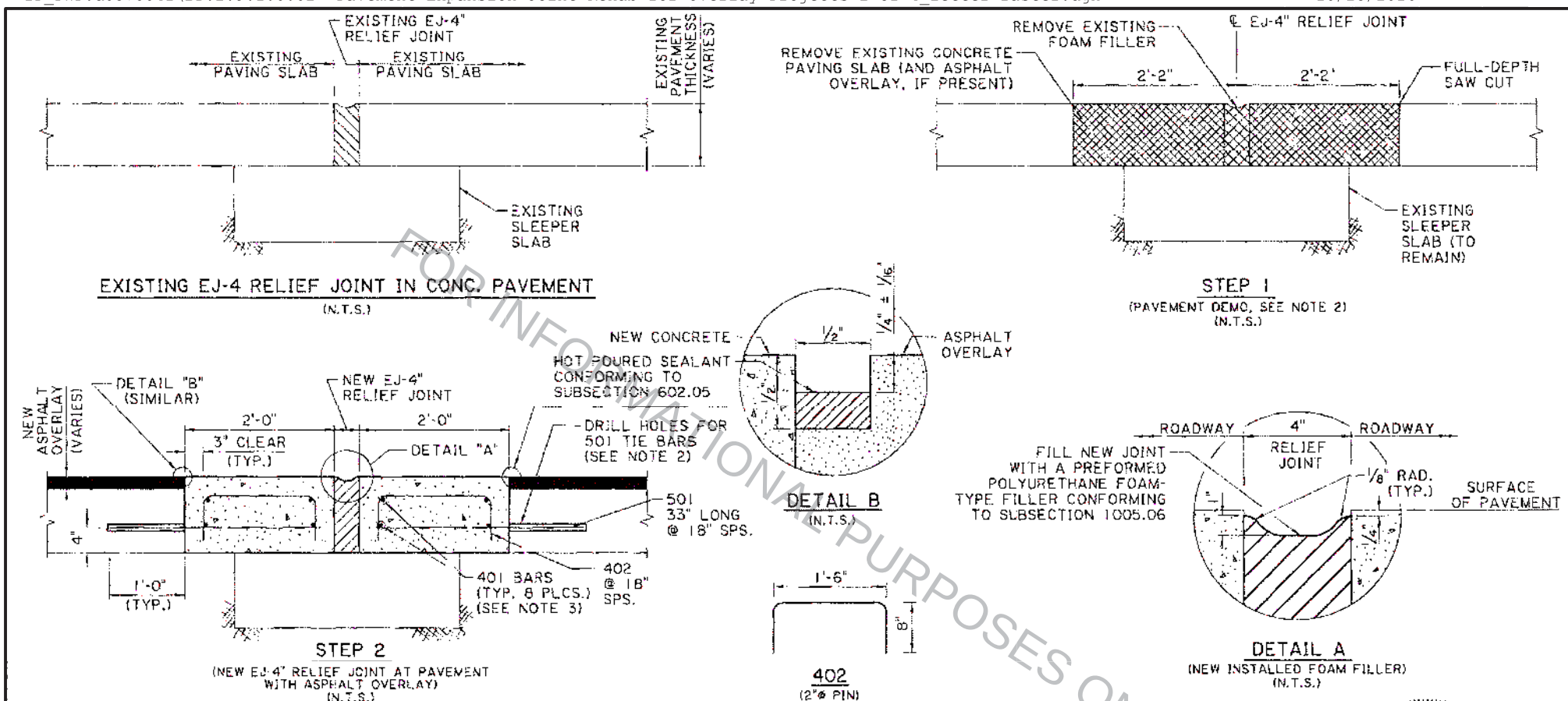


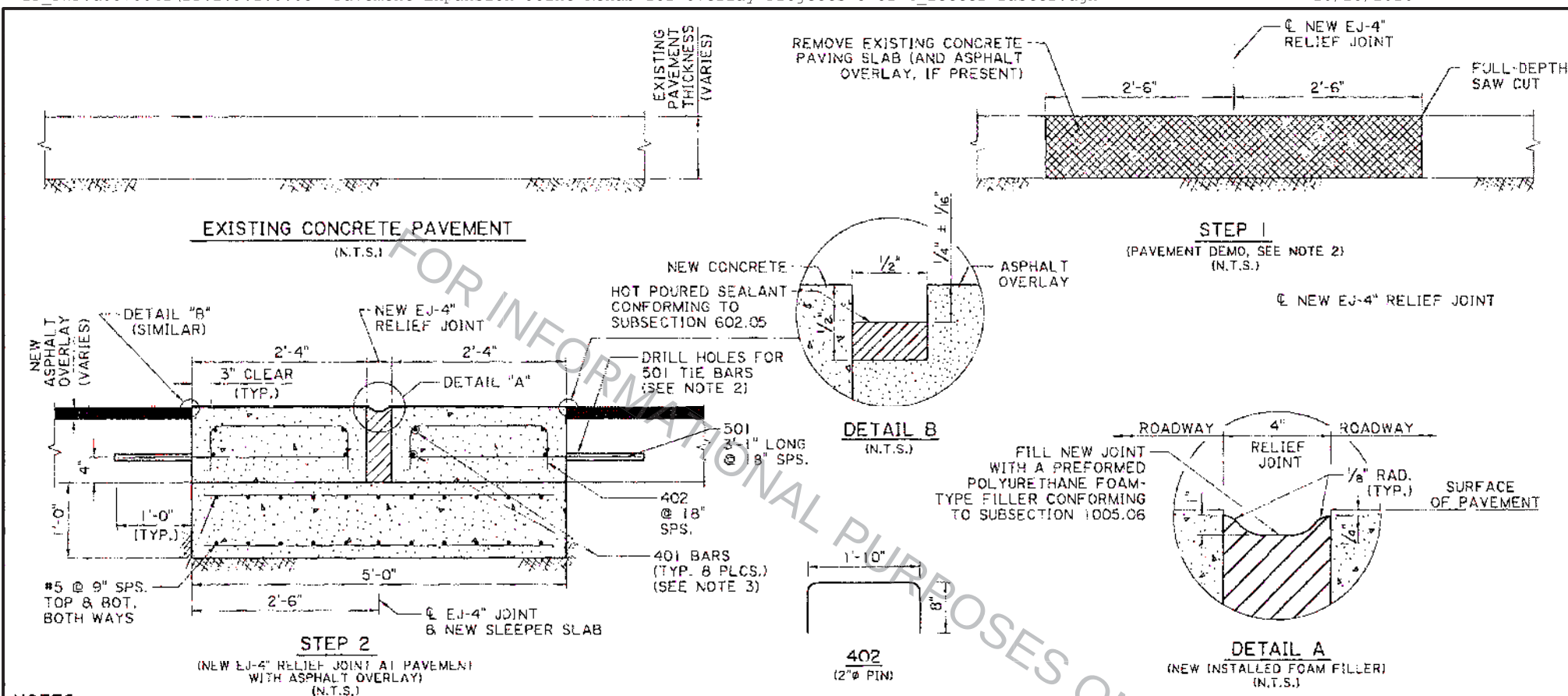


NOTES:

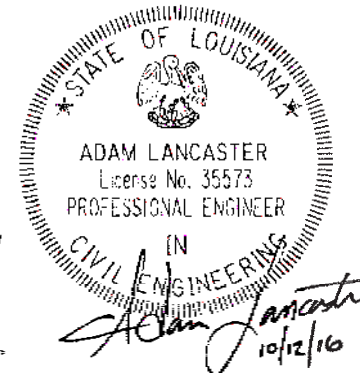
1. THIS PLAN IS APPLICABLE FOR THE REHABILITATION OF EXISTING 4" RELIEF JOINTS IN CONCRETE PAVEMENT WITH ASPHALT OVERLAY.
2. INSTALLATION PROCESS: REMOVE THE EXISTING FOAM FILLER. SAWCUT AND REMOVE EXISTING CONCRETE PAVING SLABS AND EXISTING ASPHALT OVERLAY, IF PRESENT, AS SHOWN IN "STEP 1". DEFORMED TIE BARS (501) SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES LARGER THAN THE BAR DIAMETER (1/8" WHEN EPOXY IS USED, 1/2" WHEN A CEMENTITIOUS GROUT ANCHOR SYSTEM IS USED, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WHEN ADHESIVE ANCHOR SYSTEMS ARE USED.) HOLES SHALL BE CLEAN AND MOISTURE FREE PRIOR TO PLACEMENT OF ANCHOR SYSTEM. ANCHOR SYSTEM INJECTION SHALL BE SUFFICIENT TO FILL THE VOID BETWEEN THE BAR AND THE HOLE, AS EVIDENCED BY MATERIAL SQUEEZE-OUT WHEN THE BAR IS INSERTED. PREVENT BARS FROM BEING DISTURBED UNTIL ANCHOR SYSTEM HAS SUFFICIENTLY CURED. PRIOR TO PLACING NEW CONCRETE, THE FACES OF EXISTING CONCRETE SHALL BE COATED WITH AN EPOXY RESIN TYPE II, GRADE B OR C FROM THE APPROVED MATERIALS LIST. NEW CONCRETE SHALL BE TYPE E AND SHALL OBTAIN 3500 PSI COMPRESSIVE STRENGTH PRIOR TO OPENING TO TRAFFIC. NEW CONCRETE SHALL RECEIVE A TINE FINISH. FILL NEW JOINT OPENING WITH FULL-DEPTH FOAM FILLER AS SHOWN IN "STEP 2" AND DETAIL "A".
3. WHEN REPAIRING AN EXPANSION JOINT IN PHASES, LEAVE 6" OF EXPOSED 401 BAR AT THE CONSTRUCTION JOINT FOR THE ATTACHMENT OF MECHANICAL SPLICES. LEAVE 3" CLEAR COVER AT THE ENDS OF 401 BARS.
4. BASIS OF PAYMENT: ALL WORK ASSOCIATED WITH THE RELIEF JOINT SHALL BE PAID FOR UNDER ITEM NS-602-C0011, "EXPANSION JOINT REHABILITATION."



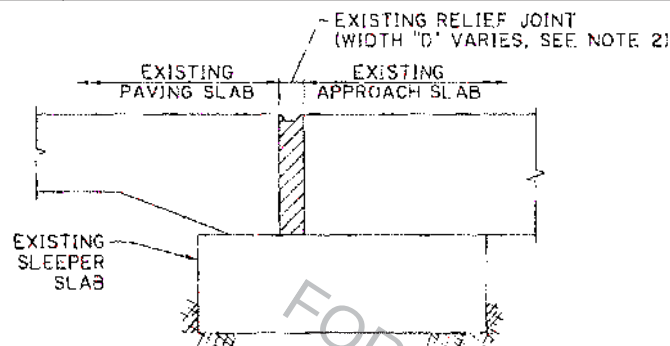
	PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS		DESIGNED: A.L. LANCASTER				
	EXISTING EJ-4 PAVEMENT RELIEF JOINT		CHECKED: X. WANG				
	BD.2.9.1.0.03 - PREVENTIVE MAINTENANCE		CHECKED: R. MORVANT				
			REVIEWED: Z.Z. FU				
NO.		DATE		REVISION OR CHANGE OTHER DESCRIPTION		SHEET 2 OF 4	

**NOTES:**

1. THIS PLAN IS APPLICABLE FOR THE CONSTRUCTION OF NEW 4" RELIEF JOINTS IN EXISTING CONCRETE PAVEMENT WITH ASPHALT OVERLAY.
2. INSTALLATION PROCESS: SAWCUT AND REMOVE EXISTING CONCRETE PAVING SLAB AND EXISTING ASPHALT OVERLAY, IF PRESENT, AS SHOWN IN "STEP 1". INSTALL SLEEPER SLAB WITH #5 DEFORMED BARS AS SHOWN IN "STEP 1". DEFORMED TIE BARS (501) SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES LARGER THAN THE BAR DIAMETER (1/8" WHEN EPOXY IS USED, 1/4" WHEN A CEMENTITIOUS GROUT ANCHOR SYSTEM IS USED, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WHEN ADHESIVE ANCHOR SYSTEMS ARE USED.) HOLES SHALL BE CLEAN AND MOISTURE FREE PRIOR TO PLACEMENT OF ANCHOR SYSTEM. ANCHOR SYSTEM INJECTION SHALL BE SUFFICIENT TO FILL THE VOID BETWEEN THE BAR AND THE HOLE, AS EVIDENCED BY MATERIAL SQUEEZE-OUT WHEN THE BAR IS INSERTED. PREVENT BARS FROM BEING DISTURBED UNTIL ANCHOR SYSTEM HAS SUFFICIENTLY CURED. PRIOR TO PLACING NEW CONCRETE, THE FACES OF EXISTING CONCRETE SHALL BE COATED WITH AN EPOXY RESIN TYPE 1, GRADE B OR C FROM THE APPROVED MATERIALS LIST. NEW CONCRETE SHALL BE TYPE E AND SHALL OBTAIN 3500 PSI COMPRESSIVE STRENGTH PRIOR TO OPENING TO TRAFFIC. NEW CONCRETE SHALL RECEIVE A FINE FINISH. FILL NEW JOINT OPENING WITH FULL-DEPTH FOAM FILLER AS SHOWN IN "STEP 2" AND DETAIL "A".
3. WHEN REPAIRING AN EXPANSION JOINT IN PHASES, LEAVE 6" OF EXPOSED 401 BAR AT THE CONSTRUCTION JOINT FOR THE ATTACHMENT OF MECHANICAL SPLICES. LEAVE 3" CLEAR COVER AT THE ENDS OF 401 BARS.
4. BASIS OF PAYMENT: ALL WORK ASSOCIATED WITH THE RELIEF JOINT SHALL BE PAID FOR UNDER ITEM NS-602-00011, "EXPANSION JOINT REHABILITATION."

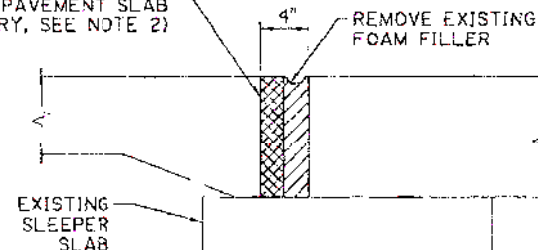


BRIDGE AND STRUCTURAL DESIGN		PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS			DESIGNED: A.L. LANCASTER	PERIOD:
		NEW EJ-4" PAVEMENT RELIEF JOINT			CHECKED: X. WANG	CONTROL SECTION:
		BD.2.9.1.0.03 - PRE-ENTIVE MAINTENANCE			DETAILED: A.L. LANCASTER	STATE PROJECT:
		NO. DATE REVISION OR CHANGE ORDER DESCRIPTION BY			CHECKED: R. MORYANT	SHEET NUMBER:
		REVIEWED: Z.Z. FU		SERIES: 3 OF 4		

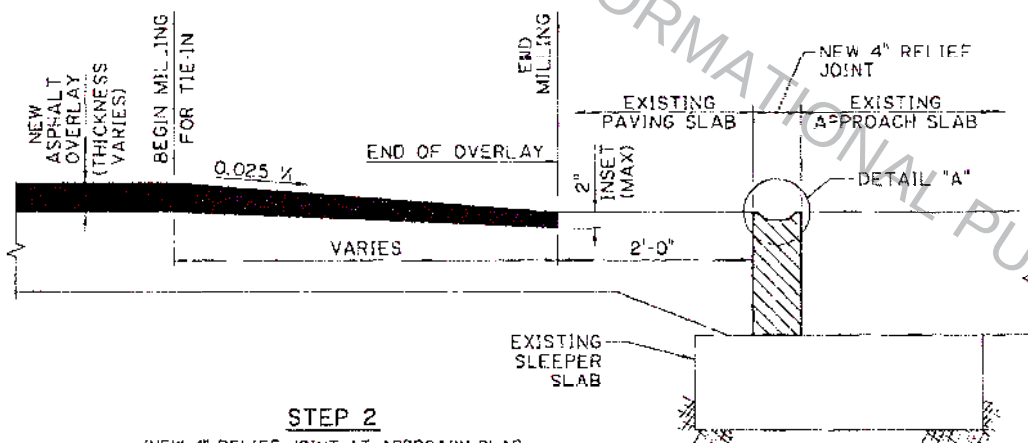


EXISTING RELIEF JOINT IN CONC. PAVEMENT AT APPROACH SLAB
(N.T.S.)

SAW CUT AND REMOVE
CONCRETE PAVEMENT SLAB
(IF NECESSARY, SEE NOTE 2)

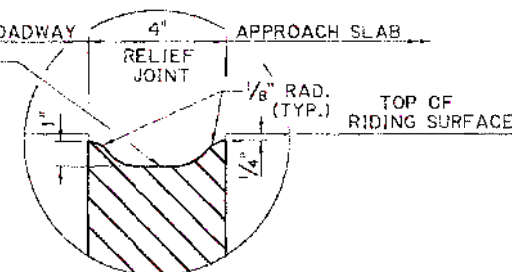


STEP 1
(PAVEMENT DEMO, SEE NOTE 2)
(N.T.S.)



STEP 2
(NEW 4" RELIEF JOINT AT APPROACH SLAB
WITH ASPHALT OVERLAY TRANSITION)
(N.T.S.)

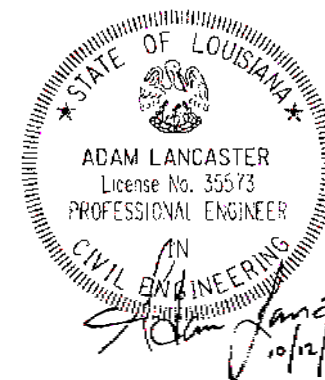
FILL NEW JOINT WITH A
PREFORMED POLYURETHANE
FOAM TYPE FILLER
CONFORMING TO
SUBSECTION 1005.06



DETAIL A
(NEW [INSTALLED FOAM FILLER])
(N.T.S.)

NOTES:

1. THIS PLAN IS APPLICABLE FOR THE REHABILITATION OF EXISTING 4" RELIEF JOINTS IN CONCRETE PAVEMENT AT THE END OF THE BRIDGE APPROACH SLAB, AS SHOWN IN THE BRIDGE DESIGN SPECIAL DETAILS FOR APPROACH SLABS.
2. IF THE WIDTH OF THE RELIEF JOINT ("D") IS 2" OR LESS, OR IF THE EXISTING FOAM JOINT FILLER IS DETERIORATED OR TORN, THEN REHABILITATION OF THE RELIEF JOINT IS REQUIRED. REMOVE THE EXISTING FOAM FILLER. SAWCUT AND REMOVE EXISTING CONCRETE PAVING SLAB AS NEEDED TO REESTABLISH 4" OPENING, AS SHOWN IN "STEP 1". VERTICAL SIDES OF JOINT OPENING MUST BE PARALLEL WITH RESPECT TO EACH OTHER, AND MUST BE PERPENDICULAR WITH RESPECT TO THE SLEEPER SLAB. DEMO PAVEMENT DEMO SLAB ONLY. DO NOT SAW CUT/DEMO THE APPROACH SLAB. JOINT OPENING AND VERTICAL EDGES OF SLABS MUST BE FREE OF DEBRIS BEFORE INSTALLATION OF NEW JOINT FILLER. FILL NEW JOINT OPENING WITH FULL-DEPTH FOAM FILLER AND TRANSITION ASPHALT OVERLAY AS SHOWN IN "STEP 2" AND DETAIL "A".
3. BASIS OF PAYMENT: ALL WORK ASSOCIATED WITH THE EXPANSION JOINT SHALL BE PAID FOR UNDER ITEM NS-602-00011, "EXPANSION JOINT REHABILITATION."



	PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS 4" EXPANSION JOINT @ APPROACH SLAB BD.2.9.1.0.04 - PREVENTIVE MAINTENANCE		DESIGNED: A.L. LANCASTER	DATE: 10/12/16	REVISION OR CHANGE ORDER DESCRIPTION:	BY:
			CHECKED: X. WANG	DATE:		
			DETAILS: A.L. LANCASTER	DATE:		
			CHECKED: R. MORVANT	DATE:		
			REVIEWED: Z.Z. FU	DATE:		
			SERIES #: 4 OF 4	STATE PROJECT:		