

MK	QTY	DESCRIPTION
3A	4	PMG-492
3sp1	4	SOLE PLATE
3sf1	4	STAINLESS STEEL
3pf1	4	PTFE DISC
3ps1	4	PISTON
3pt1	4	POT PLATE
3ed1	4	ELASTOMERIC DISC
3br1	12	BRASS RING
3gb1	8	GUIDE BAR
3sg1	8	G.B. STAINLESS STEEL
3pg1	8	G.B. PTFE
3mp1	4	MASONRY PLATE
3FA	4	UNDERLAYMENT (*SL)
3H	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3M	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3B	4	PMG-492
3sp2	4	SOLE PLATE
3sf1	4	STAINLESS STEEL
3pf1	4	PTFE DISC
3ps1	4	PISTON
3pt1	4	POT PLATE
3ed1	4	ELASTOMERIC DISC
3br1	12	BRASS RING
3gb1	8	GUIDE BAR
3sg1	8	G.B. STAINLESS STEEL
3pg1	8	G.B. PTFE
3mp1	4	MASONRY PLATE
3FA	4	UNDERLAYMENT (*SL)
3H	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3M	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3C	4	PMG-492
3sp3	4	SOLE PLATE
3sf2	4	STAINLESS STEEL
3pf1	4	PTFE DISC
3ps1	4	PISTON
3pt1	4	POT PLATE
3ed1	4	ELASTOMERIC DISC
3br1	12	BRASS RING
3gb2	8	GUIDE BAR
3sg2	8	G.B. STAINLESS STEEL
3pg1	8	G.B. PTFE
3mp1	4	MASONRY PLATE
3FA	4	UNDERLAYMENT (*SL)
3H	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3M	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3D	4	PMG-492
3sp4	4	SOLE PLATE
3sf2	4	STAINLESS STEEL
3pf1	4	PTFE DISC
3ps1	4	PISTON
3pt1	4	POT PLATE
3ed1	4	ELASTOMERIC DISC
3br1	12	BRASS RING
3gb2	8	GUIDE BAR
3sg2	8	G.B. STAINLESS STEEL
3pg1	8	G.B. PTFE
3mp1	4	MASONRY PLATE
3FA	4	UNDERLAYMENT (*SL)
3H	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3M	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3F	4	PMG-185
3sp5	4	SOLE PLATE
3sf3	4	STAINLESS STEEL
3pf2	4	PTFE DISC
3ps2	4	PISTON
3pt2	4	POT PLATE
3ed2	4	ELASTOMERIC DISC
3br2	12	BRASS RING
3gb3	8	GUIDE BAR
3sg3	8	G.B. STAINLESS STEEL
3pg2	8	G.B. PTFE
3mp2	4	MASONRY PLATE
3FB	4	UNDERLAYMENT (*SL)
3N	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3P	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3G	4	PMG-185
3sp6	4	SOLE PLATE
3sf3	4	STAINLESS STEEL
3pf2	4	PTFE DISC
3ps2	4	PISTON
3pt2	4	POT PLATE
3ed2	4	ELASTOMERIC DISC
3br2	12	BRASS RING
3gb3	8	GUIDE BAR
3sg3	8	G.B. STAINLESS STEEL
3pg2	8	G.B. PTFE
3mp2	4	MASONRY PLATE
3FB	4	UNDERLAYMENT (*SL)
3N	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3P	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3E	4	PMG-492
3sp7	4	SOLE PLATE
3sf2	4	STAINLESS STEEL
3pf1	4	PTFE DISC
3ps1	4	PISTON
3pt1	4	POT PLATE
3ed1	4	ELASTOMERIC DISC
3br1	12	BRASS RING
3gb2	8	GUIDE BAR
3sg2	8	G.B. STAINLESS STEEL
3pg1	8	G.B. PTFE
3mp1	4	MASONRY PLATE
3FA	4	UNDERLAYMENT (*SL)
3H	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3M	16	WASHER PLATE (*SL)

MK	QTY	DESCRIPTION
3F	4	PMG-185
3sp8	4	SOLE PLATE
3sf3	4	STAINLESS STEEL
3pf2	4	PTFE DISC
3ps2	4	PISTON
3pt2	4	POT PLATE
3ed2	4	ELASTOMERIC DISC
3br2	12	BRASS RING
3gb3	8	GUIDE BAR
3sg3	8	G.B. STAINLESS STEEL
3pg2	8	G.B. PTFE
3mp2	4	MASONRY PLATE
3FB	4	UNDERLAYMENT (*SL)
3N	16	ANCHOR ROD (*SL)
3K	16	HEX NUT (*SL)
3P	16	WASHER PLATE (*SL)

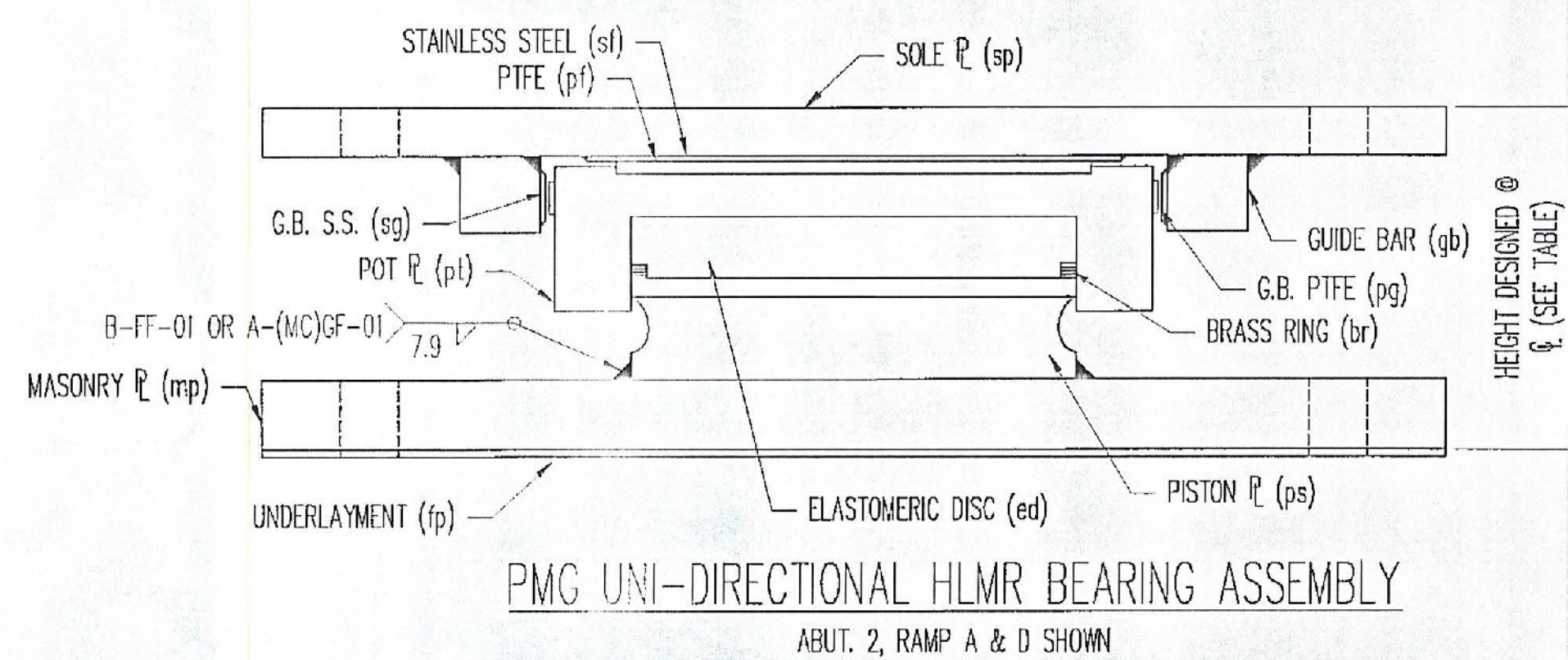
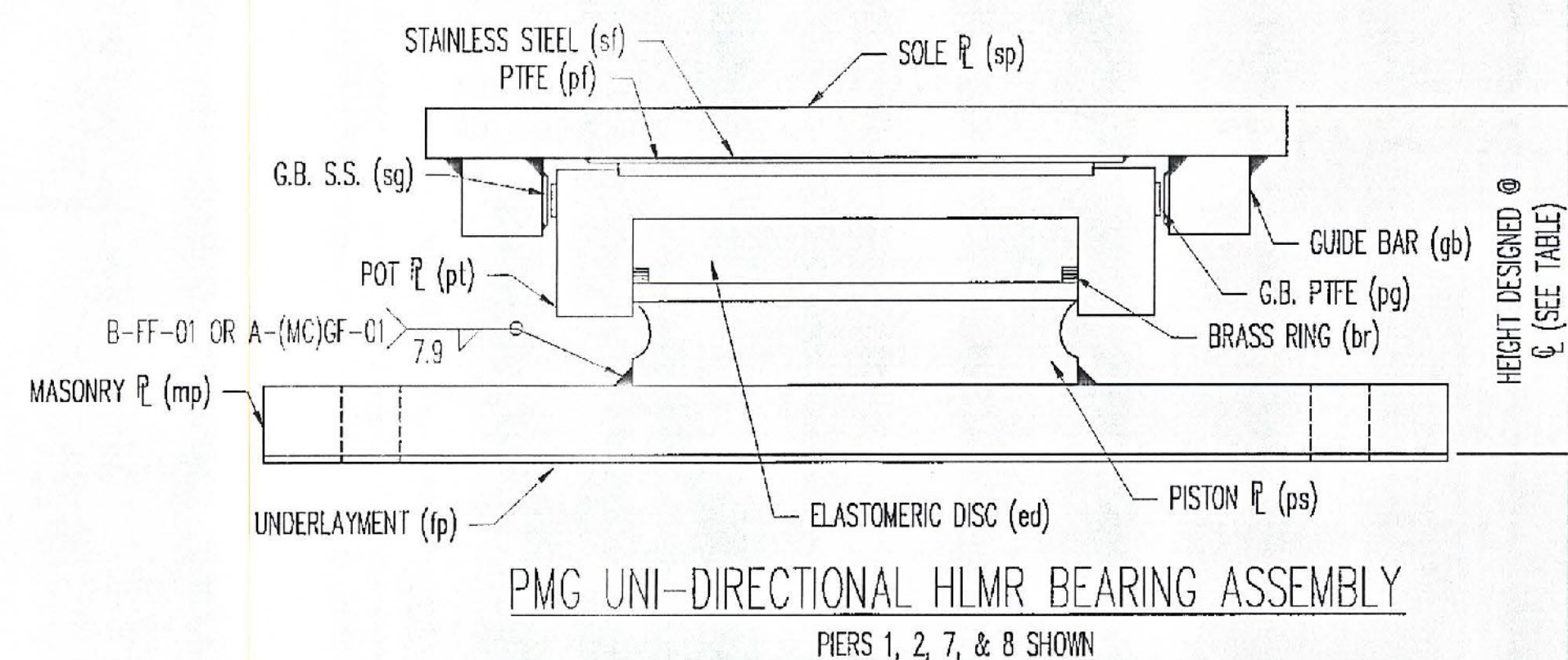
HLMR BEARING ASSEMBLY LOCATION & DESIGN INFORMATION (PMG)													
MK	QTY	STRUCTURE	BEARING TYPE	LOCATION	VERT. CAP	HORIZ. CAP	LONG MVMNT	TRANS MVMNT	ROTATION (RAD)	HEIGHT DESIGNED	HEIGHT IN PLANS	DIFFERENCE IN PLANS	UNDERLAYMENT IN HEIGHT (Y/N)
3A	4	B15S & B15N	PMG-492	RAMP A: PIER 7	2188.0 kN	295.0 kN	58.0	0	0.02	214.0	290.0	-76.0	NO
3B	4	B15S & B15N	PMG-492	RAMP D: PIER 1	2188.0 kN	295.0 kN	58.0	0	0.02	214.5	293.5	-79.0	NO
3C	4	B15S & B15N	PMG-492	RAMP A: PIER 8	2188.0 kN	295.0 kN	126.0	0	0.02	216.5	292.5	-76.0	NO
3D	4	B15S & B15N	PMG-492	RAMP D: PIER 2	2188.0 kN	295.0 kN	126.0	0	0.02	217.0	296.0	-79.0	NO
3F	4	B15S & B15N	PMG-185	RAMP A: ABUT 2	822.0 kN	89.0 kN	184.0	0	0.02	163.1	217.0	-53.9	NO
3G	4	B15S & B15N	PMG-185	RAMP D: ABUT 2	822.0 kN	89.0 kN	184.0	0	0.02	163.6	220.5	-56.9	NO

ELASTOMERIC DISC SCHEDULE (PMG)				
ASSEM. MK	PIECE MK	QTY	ELASTOMERIC DISC DIMENSIONS	ELASTOMER MATERIAL
3A	3ed1	4	25.4 X 342.9ø	Neoprene, 50+/-5 Duro Gr.3
3B	3ed1	4	25.4 X 342.9ø	Neoprene, 50+/-5 Duro Gr.3
3C	3ed1	4	25.4 X 342.9ø	Neoprene, 50+/-5 Duro Gr.3
3D	3ed1	4	25.4 X 342.9ø	Neoprene, 50+/-5 Duro Gr.3
3F	3ed2	4	15.9 X 209.6ø	Neoprene, 50+/-5 Duro Gr.3
3G	3ed2	4	15.9 X 209.6ø	Neoprene, 50+/-5 Duro Gr.3

BRASS RING SCHEDULE (PMG)				
ASSEM. MK	PIECE MK	QTY	BRASS RING DIMENSIONS	BRASS MATERIAL
3A	3br1	12	2.4 X 9.5 X 342.9ø	B36 Half-Hard
3B	3br1	12	2.4 X 9.5 X 342.9ø	B36 Half-Hard
3C	3br1	12	2.4 X 9.5 X 342.9ø	B36 Half-Hard
3D	3br1	12	2.4 X 9.5 X 342.9ø	B36 Half-Hard
3F	3br2	12	2.4 X 9.5 X 209.6ø	B36 Half-Hard
3G	3br2	12	2.4 X 9.5 X 209.6ø	B36 Half-Hard

PTFE DISC SCHEDULE (PMG)				
ASSEM. MK	PIECE MK	QTY	PTFE DISC DIMENSIONS	PTFE DISC MATERIAL
3A	3pf1	4	4.8 X 342.9ø	Pure Virgin Unfilled
3B	3pf1	4	4.8 X 342.9ø	Pure Virgin Unfilled
3C	3pf1	4	4.8 X 342.9ø	Pure Virgin Unfilled
3D	3pf1	4	4.8 X 342.9ø	Pure Virgin Unfilled
3F	3pf2	4	4.8 X 209.6ø	Pure Virgin Unfilled
3G	3pf2	4	4.8 X 209.6ø	Pure Virgin Unfilled

GUIDE BAR LOW-FRICTION MAT'L SCHEDULE (PMG)				
ASSEM. MK	PIECE MK	QTY	LOW-FRICTION MAT'L DIMENSIONS	LOW-FRICTION MATERIAL
3A	3pg1	8	4.8 X 28.6 X 342.9	Filled and Pigmented
3B	3pg1	8	4.8 X 28.6 X 342.9	Filled and Pigmented
3C	3pg1	8	4.8 X 28.6 X 342.9	Filled and Pigmented
3D	3pg1	8	4.8 X 28.6 X 342.9	Filled and Pigmented
3F	3pg2	8	4.8 X 15.9 X 209.6	Filled and Pigmented
3G	3pg2	8	4.8 X 15.9 X 209.6	Filled and Pigmented



NOTE: ACTUAL MOVEMENT CAPACITY ALLOWED BY SOLE P SLOTS IS 50mm EXPANSION AND 95mm CONTRACTION.

'SR' ø CHART									
ASSEM. MK	PIECE MK	TOTAL QTY	IR ROD ø	THREADS	'SW' SWEDGE	'EMB' EMBEDMENT	'P' PROJ	'L' LENGTH	
3H	3sr1	64	44.5	101.6	355.6	381.0	152.4	533.4	
3N	3sr2	32	44.5	114.3	355.6	381.0	254.0	635.0	

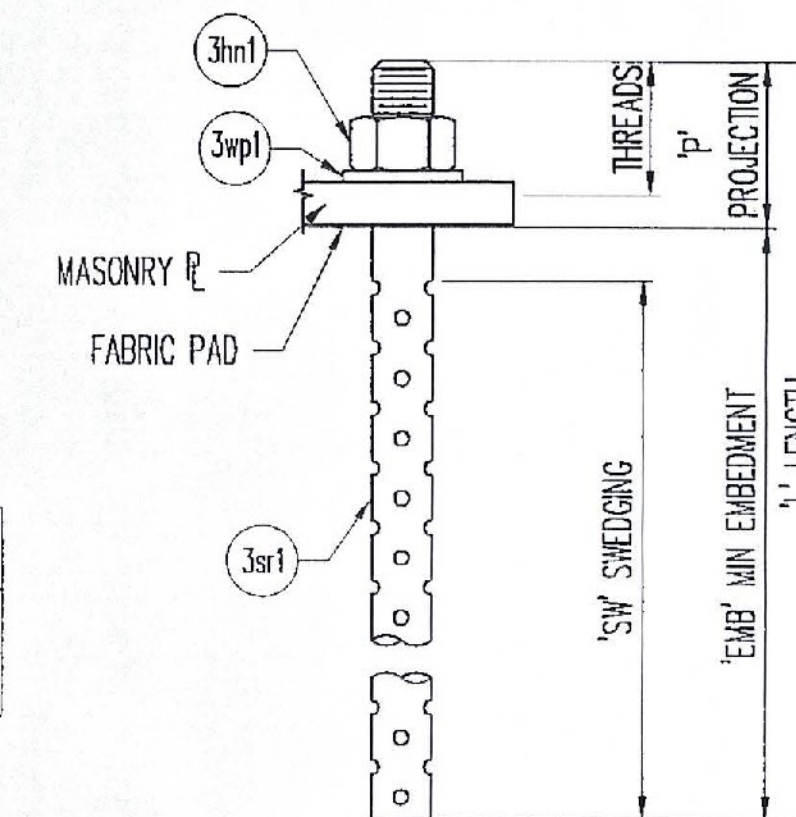
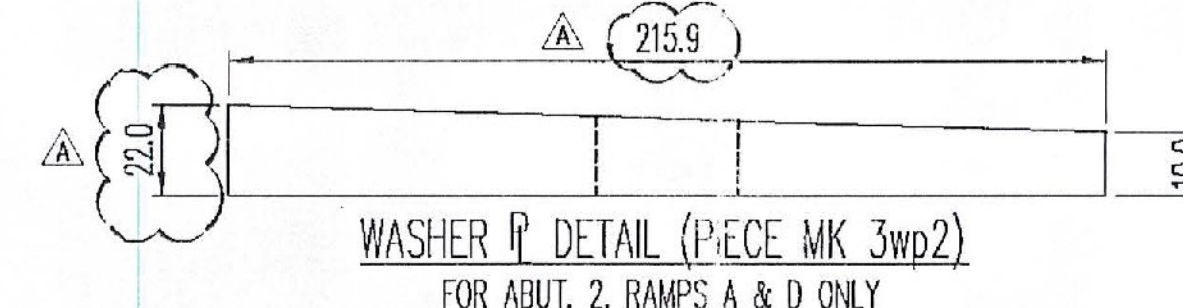
MAT'L: ASTM A307
COATING: ASTM A153

HEAVY HEX NUT			
ASSEM. MK	PIECE MK	TOTAL QTY	NUT ø
3K	3hn1	96	44.5

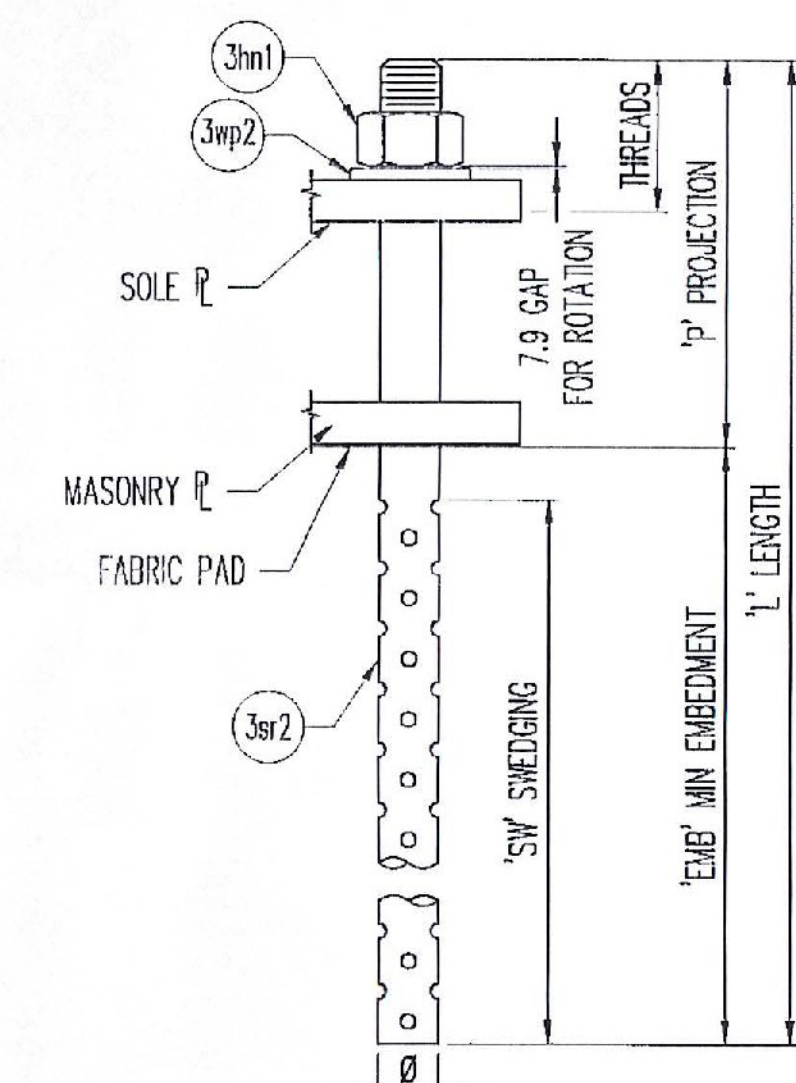
MAT'L: ASTM A563-DH
OR A194-2H
COATING: ASTM A153

WASHER PLATE			
ASSEM. MK	PIECE MK	TOTAL QTY	WASHER PLATE WASHER DIMENSIONS
3M	3wp1	64	9.5 X 76.2 X 76.2 W/ 46.0ø HOLE @ CTR
3P	3wp2	32	22.0 X 79.4 X 215.9 W/ 46.0ø HOLE @ CTR

MAT'L: ASTM A36
COATING: ASTM A123



ANCHOR ROD DETAIL
FOR PIERS 1, 2, 7, & 8 ONLY

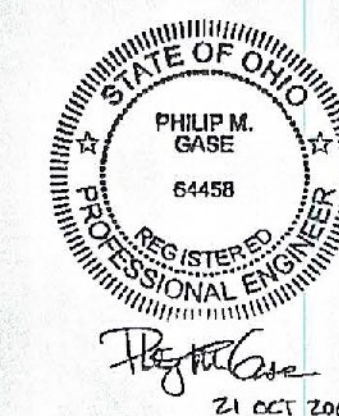


ANCHOR ROD DETAIL
FOR ABUT. 2, RAMPS A & D ONLY

TVGA CONSULTANTS

NO EXCEPTIONS TAKEN
FURNISH AS CORRECTED
REVISE AND RESUBMIT
ENGINEER has reviewed Shop Drawings and Samples and other data which Contractor is required to submit, only for conformance with the information given in the Contract Documents and compliance with the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. Such reviews do not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto. Contractor is responsible for dimensions to be confirmed and consistent at the job site, for information that pertains solely to the fabrication processes or to techniques of construction, and for construction of the work of all trades.

BY: PHILIP M. GASE
DATE: 11-18-09



D.S. BROWN
THE D.S. BROWN COMPANY
300 E. CHERRY STREET
NORTH BALTIMORE, OHIO 45872
419.257.3501
FAX: 419.257.0332
WWW.DSBROWN.COM

* SL = SHIPPED LOOSE
SEE SHT. 04 & 05 FOR SUB-ASSEMBLY DETAILS.
SEE SHT. 001 FOR GENERAL NOTES & COATING LIMITS.
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED

REV.	DESCRIPTION	DATE	DA	M.J.G.
Δ	REV. HARDWARE & QTY	10/20/09	DA	M.J.G.
REV.	DESCRIPTION	DATE	DET.	CKD.
	LOCATION — VT-279 & RAMPS OVER WALLOOMSAC RIVER	ITEM	QUANTITY	
	BRIDGE — B15N & B15S	27084-1112-2	16 OF 16	
	PROJECT — AC NH 019-1(51)	27084-1112-3	8 OF 8	
	P.O. NO. — 200901908			
	DESIGNER — TVGA CONSULTANTS			
	CUSTOMER — KUBRICKY CONSTRUCTION CORP.			
DESCRIPTION:	UNI-DIRECTIONAL HLMR ASSEMBLY & DESIGN INFORMATION	SCALE: N.T.S.	DATE: 7/29/09	
	BENNINGTON CO., VT	PROJECT CODE: 27084	PROJECT NO: 1112	SHEET: 1 OF 1