

NOTE:
 -INSTALLER IS RESPONSIBLE FOR PROPER
 INSTALLATION AND FOUNDATION BASED
 ON SITE WIND LOADING AND LOCAL BUILDING CODES.
 -SUBJECT TO LOCAL STRUCTURAL ENGINEERING APPROVAL

NOTE:
 -TO BE WIRED BY QUALIFIED TECHNICIAN
 IN ACCORDANCE WITH LOCAL ELECTRICAL CODES.

REVISIONS				
REV.	DESCRIPTION	DATE	BY	APPROVED
-	INITIAL RELEASE	04/05/17	CTM	

NOTES:

- ① COMPATIBLE WITH BOTH 60 AND 72 CELL MODULE CONFIGURATIONS.
- ② -
- ③ -

USE M8 X 25MM
 FASTENERS
SEE DETAIL 6

ADJUSTMENT STRUT X2
 USE 1/2" X 2" FASTENERS
SEE DETAIL 3

SOLAR MODULE
 (NOT INCLUDED)
 USE FR-MID AND
 FR-END CLAMPS
SEE DETAIL 1 & 2

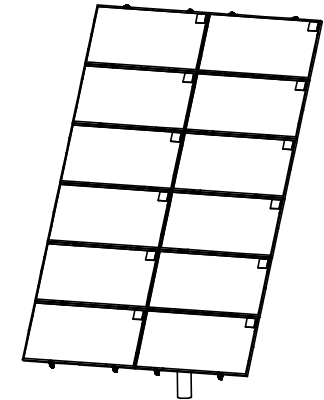
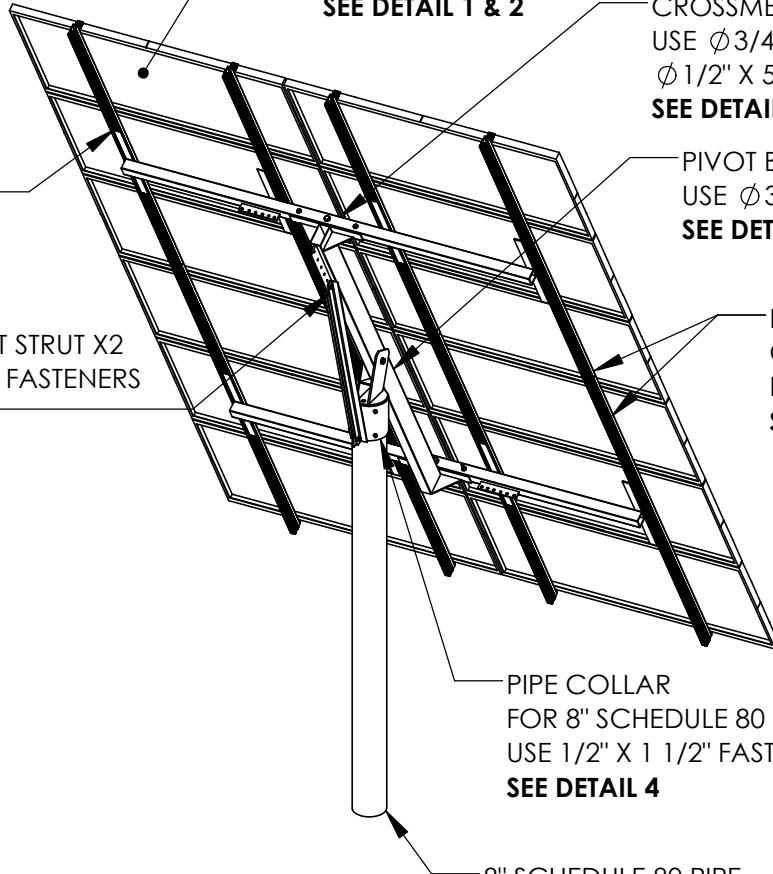
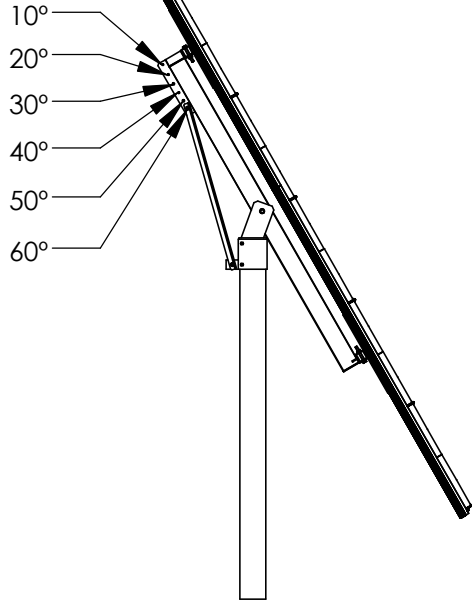
CROSSMEMBER X2
 USE $\phi 3/4"$ X 5 1/2" BOLT AND
 $\phi 1/2"$ X 5 1/2" BOLT
SEE DETAIL 3

PIVOT BEAM
 USE $\phi 3/4"$ FASTENERS
SEE DETAIL 4

FR-HD 10' RAIL
 CONNECT USING
 FR-SPLICE
SEE DETAIL 5

PIPE COLLAR
 FOR 8" SCHEDULE 80 PIPE
 USE 1/2" X 1 1/2" FASTENERS
SEE DETAIL 4

8" SCHEDULE 80 PIPE
 (NOT INCLUDED)



H.E.S. PV

84 MORROW RD.
 BARRIE, ON L4N 3V8
 1-866-258-0110
 WWW.HESPV.COM

PROJECT:

-

USED ON ASSY:

-

CLONE FROM:

-

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL $\pm 1/16$
 ANGULAR: MACH \pm BEND \pm
 TWO PLACE DECIMAL: ± 0.06
 THREE PLACE DECIMAL: ± 0.03

INTERPRET GEOMETRIC
 TOLERANCING PER:

MATERIAL:

FINISH:

DRAWN

NAME

CTM

DATE

04/05/17

CHECKED

-

ENG APPR.

MFG APPR.

Q.A.

TITLE: FR-TPM12-60/72C

DWG. NO.

105073

REV

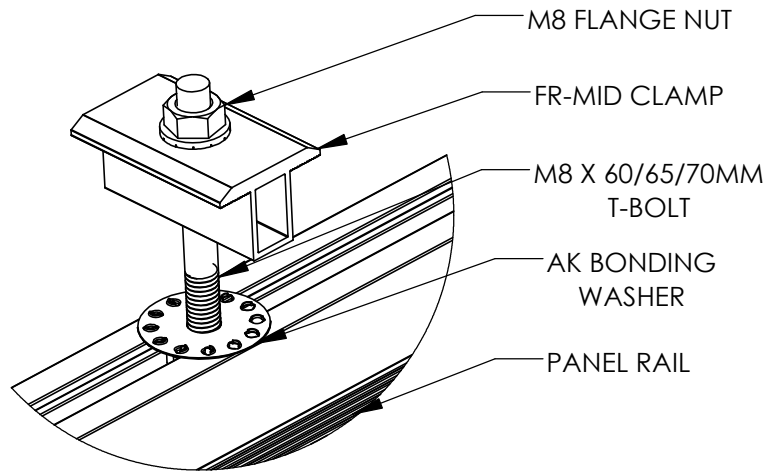
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SCALE: NTS

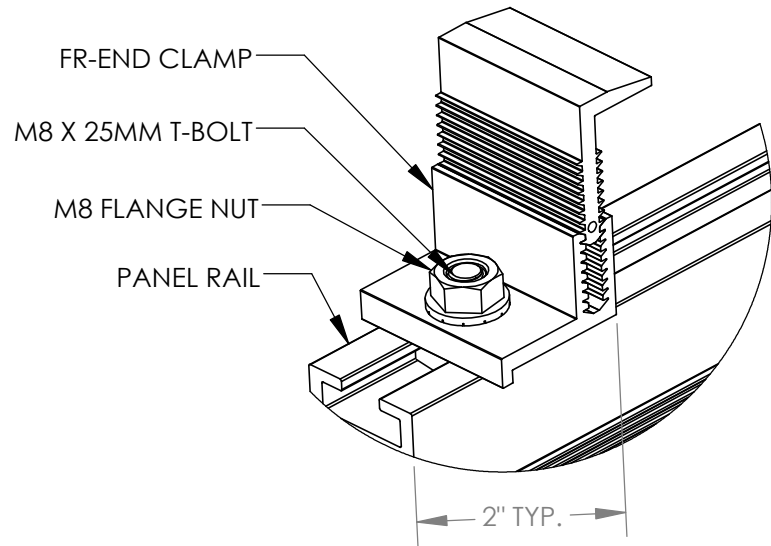
SHEET SIZE: A

SHEET 1 OF 5

FAST RACK CLAMP SUB-ASSEMBLIES

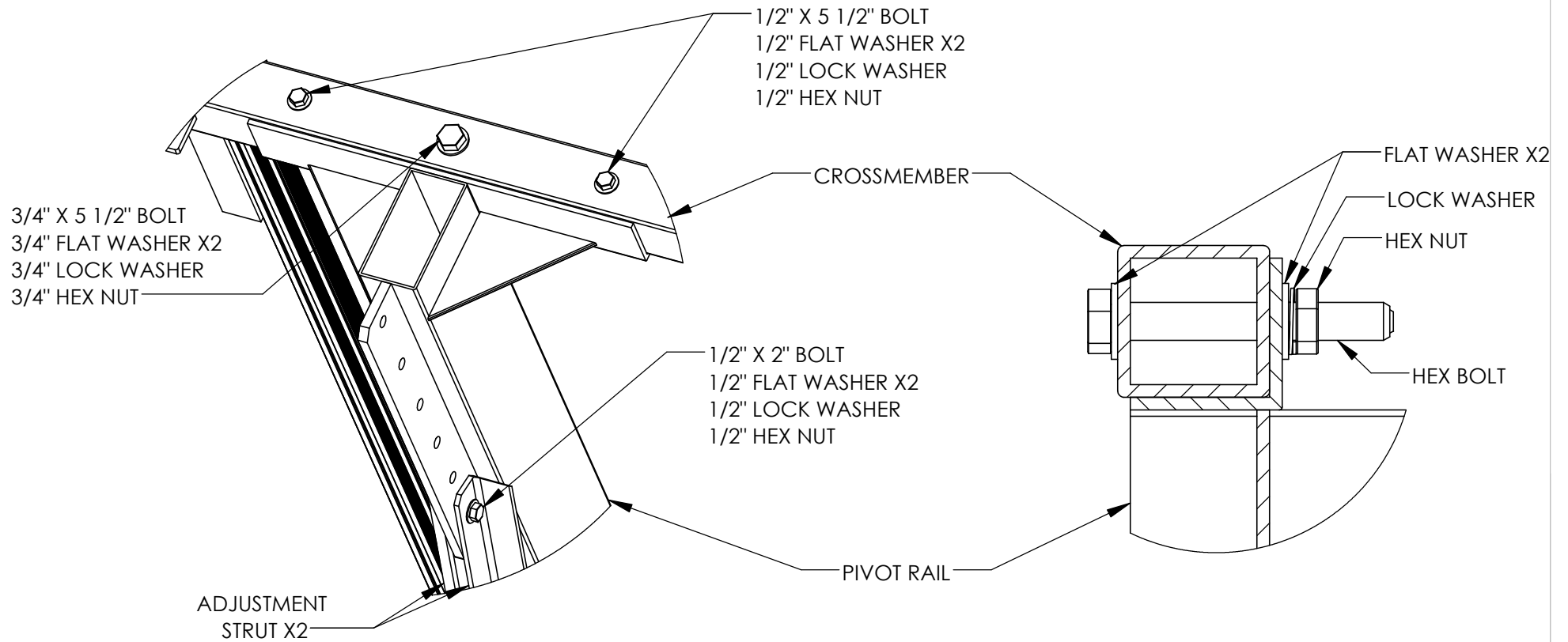


DETAIL 1
FR-MID CLAMP



DETAIL 2
FR-END CLAMP

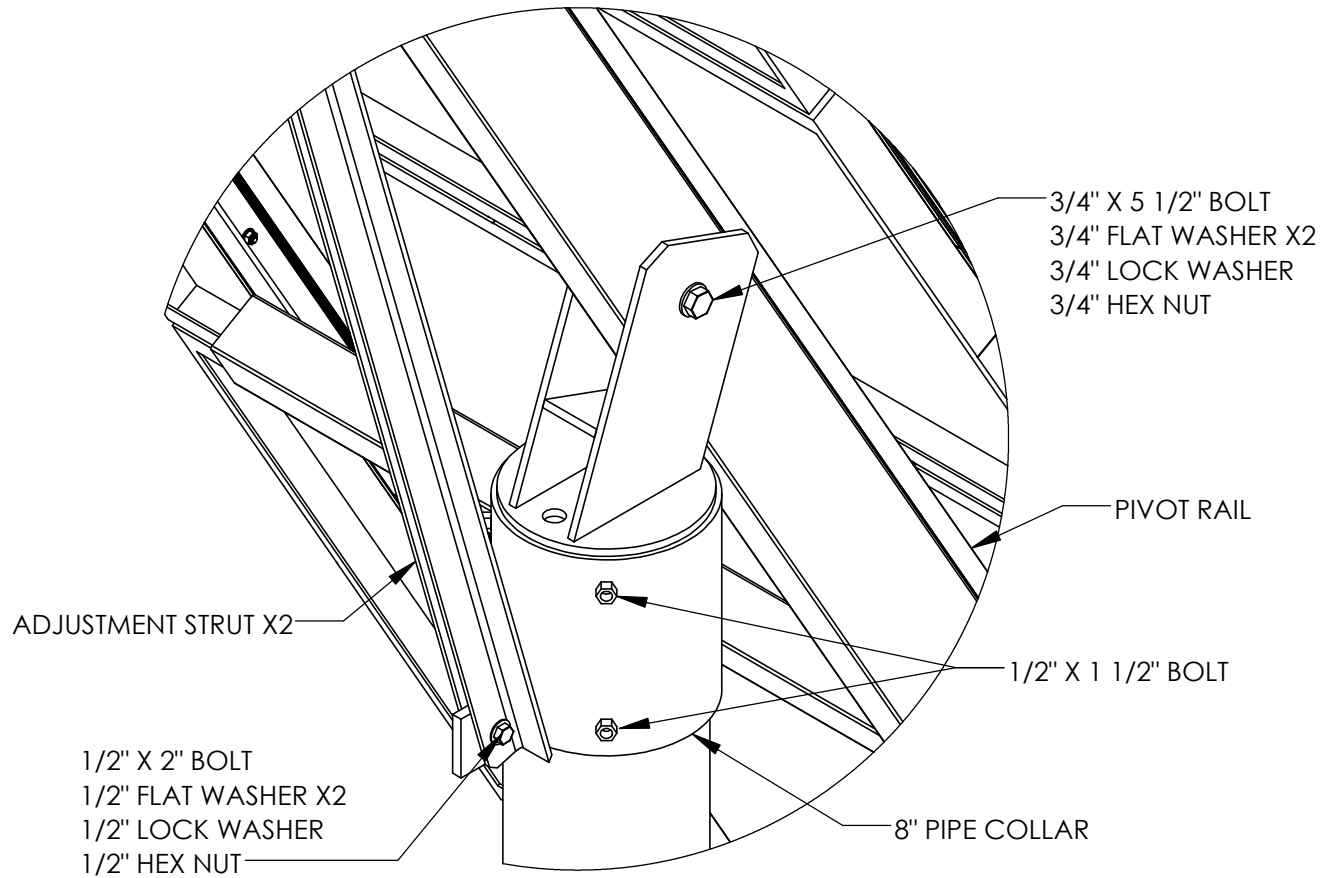
H.E.S. PV 84 MORROW RD. BARRIE, ON L4N 3V8 1-866-258-0110 WWW.HESPV.COM		PROJECT: -	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± 0.06 THREE PLACE DECIMAL ± 0.03 INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL: FINISH:	DRAWN CHECKED ENG APPR. MFG APPR. Q.A.	NAME CTM - - -	DATE 04/05/17 - - -	TITLE: FR-TPM12-60/72C DWG. NO. <h2 style="text-align: center;">105073</h2> REV -	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HOME ENERGY SOLUTIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF H.E.S. PV IS PROHIBITED.		USED ON ASSY: - CLONE FROM: -	FINISH:	Q.A.	SCALE: NTS	SHEET SIZE: A	SHEET 2 OF 5	



DETAIL 3

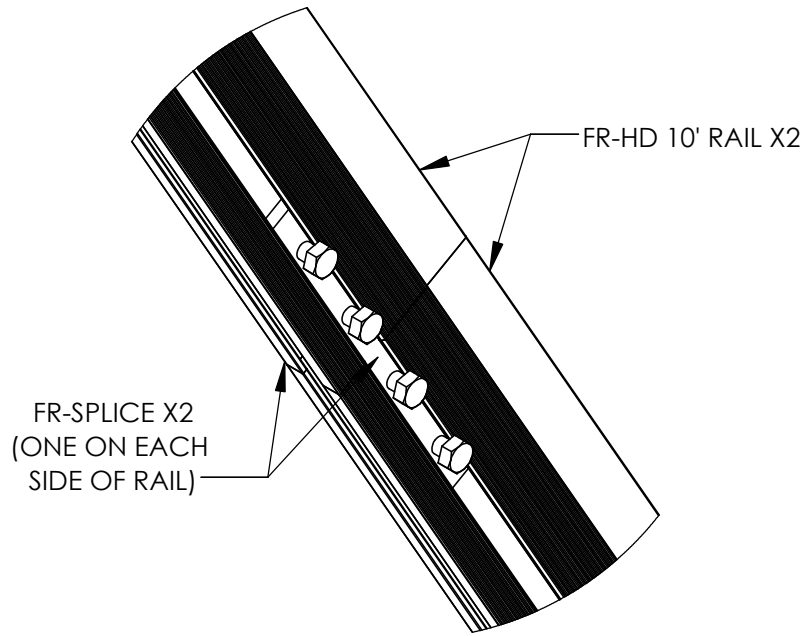
DETAIL 3A
 $\phi 1/2"$ & $\phi 3/4"$
 CROSSMEMBER FASTENERS

H.E.S. PV		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: FR-TPM12-60/72C		
84 MORROW RD. BARRIE, ON L4N 3V8 1-866-258-0110 WWW.HESPV.COM		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL ± 0.06 THREE PLACE DECIMAL ± 0.03 INTERPRET GEOMETRIC TOLERANCING PER:		DRAWN	CTM	04/05/17	DWG. NO. 105073	
PROJECT: -		MATERIAL:		CHECKED	-	-		REV -
USED ON ASSY: -		FINISH:		ENG APPR.				
CLONE FROM: -				MFG APPR.				
				Q.A.			SCALE: NTS	
							SHEET SIZE: A	
							SHEET 3 OF 5	

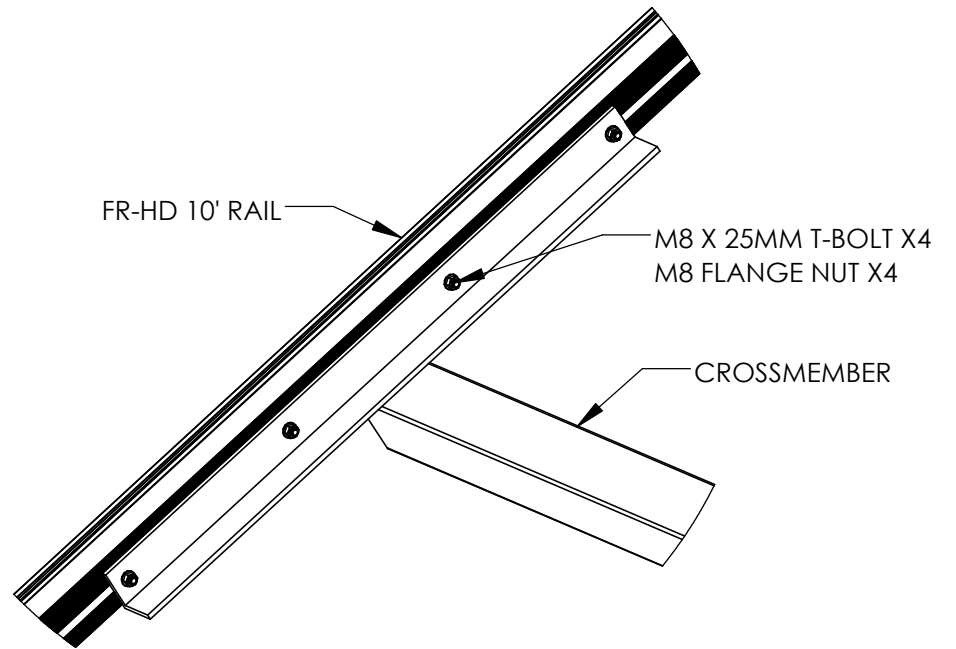


DETAIL 4

H.E.S. PV		UNLESS OTHERWISE SPECIFIED: <small>DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± 0.06 THREE PLACE DECIMAL ± 0.03 INTERPRET GEOMETRIC TOLERANCING PER:</small>		NAME	DATE	TITLE: FR-TPM12-60/72C	
84 MORROW RD. BARRIE, ON L4N 3V8 1-866-258-0110 WWW.HESPV.COM		PROJECT:		DRAWN	CTM	04/05/17	
				CHECKED	-	-	DWG. NO.
				ENG APPR.			105073
				MFG APPR.			REV
		USED ON ASSY:	-	Q.A.			-
		CLONE FROM:	-				
							SCALE: NTS
							SHEET SIZE: A
							SHEET 4 OF 5



DETAIL 5



DETAIL 6

H.E.S. PV

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INTERPRET GEOMETRIC
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DRAWN

CTM

04/05/17

CHECKED

-

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ENG APPR.

MFG APPR.

Q.A.

DWG. NO.

105073

REV

-

SCALE: NTS

SHEET SIZE: A

SHEET 5 OF 5