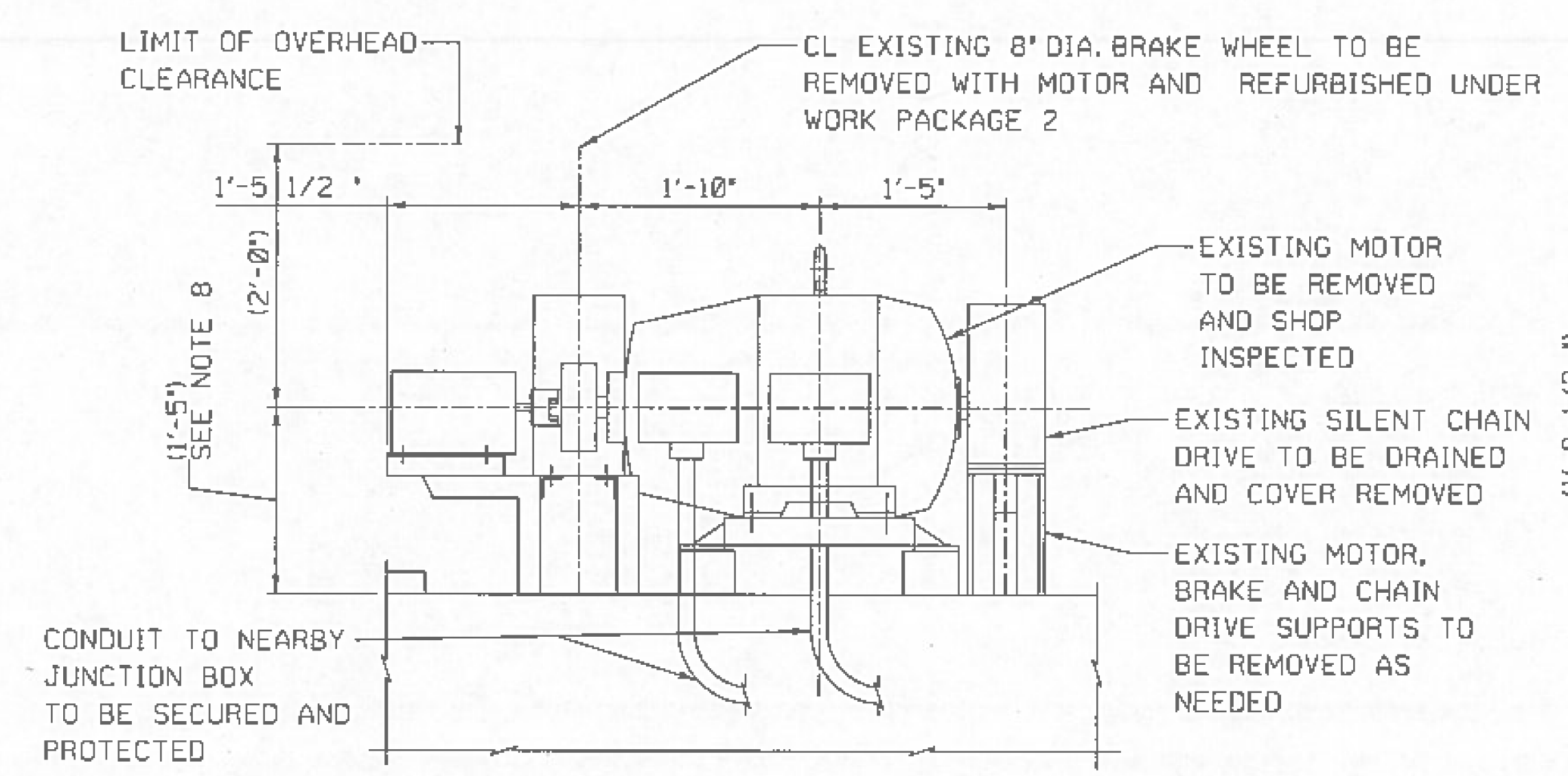


EXISTING MAIN SPAN DRIVE ASSEMBLY  
PLAN VIEW  
(2) LOCATIONS

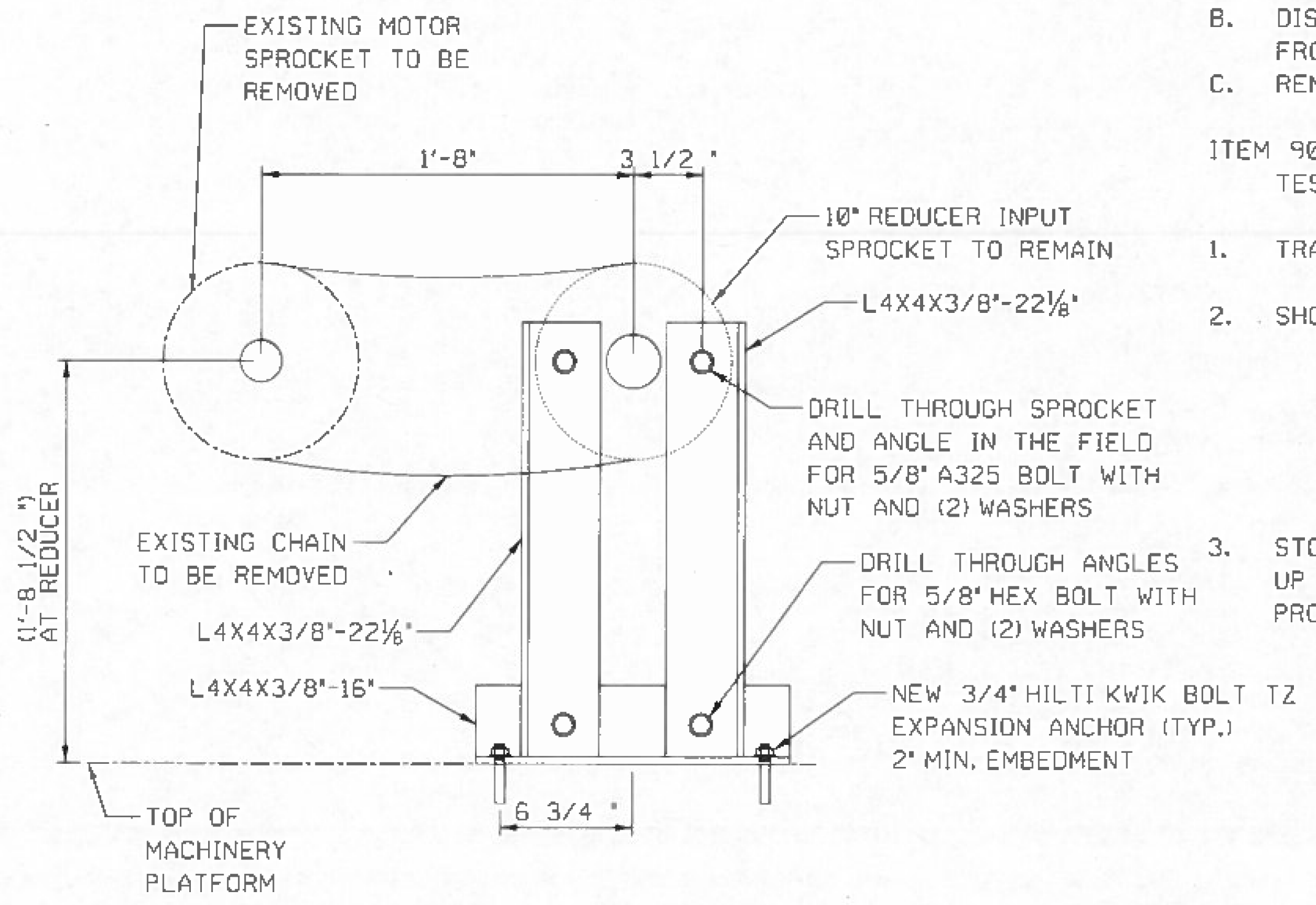


EXISTING MAIN SPAN DRIVE ASSEMBLY  
ELEVATION  
(2) LOCATIONS

**GENERAL NOTES**

1. THE DIMENSIONS PROVIDED HERE ARE APPROXIMATE AND FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND MEASURING ANY AND ALL DIMENSIONS NECESSARY FOR THE COMPLETION OF THE WORK.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION TO ALL EXISTING AND REMAINING MACHINERY TO WHICH WORK IS BEING PERFORMED. DAMAGE TO REMAINING MACHINERY COMPONENTS OCCURRING DURING THE REMOVAL OF MACHINERY WILL BE REPAIRED AT NO COST TO THE AGENCY.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. DETAILS SHOWN HERE ARE FOR REFERENCE PURPOSES ONLY AND ARE NOT TO SCALE.
5. ALL ELECTRICAL EQUIPMENT TO BE LOCKED AND TAGGED OUT PRIOR TO COMMENCEMENT OF REMOVAL WORK.
6. THE SHAFT STOP SHALL BE CONSIDERED INCIDENTAL TO THE REMOVAL WORK.
7. SEE SHEET 2 OF 4 FOR PAY ITEMS AND QUANTITIES.
8. DIMENSIONS SHOWN FOR EXISTING MOTOR SUPPORT ARE APPROXIMATE. MOTOR SUPPORT DETERIORATION HAS LOWERED THE ELEVATION OF THE MOTOR CENTER LINE BELOW DESIGNED VALUE.

SHAFT STOP BILL OF MATERIALS				
NO.	ITEM	MATERIAL	MANUFACTURER/CAT NO.	QUANTITY
1	L 4"x4"x4-3/8"	ASTM A709 GR 36	-	10'-1/2"
2	5/8" BOLTS	A325	-	8
3	5/8" NUTS	A563	-	8
4	5/8" WASHERS	F436	-	16
5	3/4" ANCHOR BOLTS	CARBON STEEL	HILTI KWIK BOLT TZ	4



NEW SHAFT STOP  
ELEVATION  
(2) LOCATIONS

**SUMMARY OF WORK PACKAGE 1**

- ITEM 900.645 SPECIAL PROVISION (PARTIAL REMOVAL OF STRUCTURE)
1. MOTOR REMOVAL (2 LOCATIONS) PAY ITEM 900.645
    - BEFORE REMOVING ANY EQUIPMENT ENSURE THAT THE MACHINERY BRAKES ARE SET AND THE SPAN LOCKS ARE DRIVEN. ENSURE THAT POWER HAS BEEN TURNED OFF TO THE MAIN SPAN DRIVE MOTORS. QUICKLY MANUALLY RELEASE AND THEN SET THE MOTOR BRAKE TO REMOVE ANY RESIDUAL TORQUE FROM THE SYSTEM.
    - A. DISCONNECT MOTOR ELECTRICAL LEADS AND SECURE THEM. ENSURE THAT THE LEADS ARE PROTECTED FROM MOISTURE.
    - B. REMOVE SILENT CHAIN DRIVE TOP COVER, DRAIN LUBRICANT AND DISCARD.
    - C. REMOVE LOWER CHAIN GUARD AND CUT/GRIND BACK SUPPORTS FOR ACCESS.
    - E. DRILL THROUGH EXISTING 10" 3 STRANDED SILENT CHAIN REDUCER INPUT SPROCKET TO ATTACH SHAFT STOP. SEE DETAIL ON THIS SHEET
    - E. INSTALL SHAFT STOP TO PIER WITH ANCHOR BOLTS AS PER MANUFACTURER'S RECOMMENDATIONS.
    - F. AFTER STOP IS INSTALLED AND SPROCKET IS SECURED, REMOVE MOTOR DRIVE CHAIN.
    - G. REMOVE MOTOR AND ATTACHED BRAKE WHEEL.
  2. MACHINERY BRAKE THRUSTER REMOVAL (3 LOCATIONS) PAY ITEM 900.645
    - THIS ITEM INCLUDES THE REMOVAL OF THE MACHINERY BRAKE THRUSTERS FOR REHABILITATION. THERE ARE A TOTAL OF THREE WORKING BRAKES ON THE BRIDGE AND ONE BRAKE WITHOUT A THRUSTER.
    - BEFORE STARTING REMOVAL, ENSURE THAT THE SHAFT STOP AT THE PRIMARY REDUCER INPUT SHAFT IS INSTALLED AND THAT THE SPAN LOCKS ARE DRIVEN. ALSO ENSURE THAT MACHINERY BRAKE POWER IS DISCONNECTED.
    - A. ENSURE THAT THE MACHINERY BRAKES ARE SET, ASSURING THAT THE MANUAL RELEASE IS DISENGAGED.
    - B. DISCONNECT POWER LEADS FROM THE BRAKE AND SECURE. PROTECT LEADS FROM MOISTURE AND OTHER CONTAMINATION.
    - C. REMOVE THE THRUSTERS AND TRANSPORT FOR SHOP REHABILITATION.

- ITEM 900.645 SPECIAL PROVISION (ELECTRICAL EQUIPMENT INSPECTION AND TESTING)
1. TRANSPORT SPAN MOTORS AND THRUSTERS TO REPAIR FACILITY.
  2. SHOP INSPECTION
    - A) TEST AND INSPECT MOTOR FOR INSULATION RESISTANCE AND CONDITION. PROVIDE A WRITTEN REPORT WITH RECOMMENDATIONS.
    - B) TEST THRUSTER FOR INSULATION RESISTANCE, FLUID LEVEL AND CONDITION, AND OUTPUT THRUST AND STROKE. PREPARE A WRITTEN REPORT WITH FINDINGS.
  3. STORAGE OF 2 SPAN MOTORS AND 3 BRAKE THRUSTERS FOR A PERIOD OF UP TO 3 MONTHS. THE MOTORS AND BRAKES SHALL BE SEGREGATED AND PROTECTED FROM DAMAGE.

• - TWO 20 HP MOTORS REMOVED. PREPARED 18N3716 & 2-8N3716. 18N3716 COULD NOT BE LOAD TESTED PRIOR TO DISASSEMBLY BECAUSE OF VIBRATIONS (BEARING).

PROJECT NAME: NORTH HERO INTERIM REPAIRS	PLOT DATE: 01/19/2016
PROJECT NUMBER: BF EWP1(1)	DRAWN BY: C. MADDEN
FILE NAME: z12b142bdr_mwpl.dgn	CHECKED BY: P. DAVIS
PROJECT LEADER: T. FRENCH	SHEET 3 OF 4
DESIGNED BY: C. MADDEN	
WORK PACKAGE 1 - MECHANICAL	