

MACHINERY SCHEDULE

ITEM NO.	ITEM	QTY.	DESIGN REQUIREMENTS
R1	PRIMARY REDUCER	2	TRIPLE REDUCTION, VERTICAL SPEED REDUCER WITH TWO INPUT SHAFT EXTENSIONS, ONE HIGH SPEED OUTPUT SHAFT EXTENSION, AND TWO LOW SPEED OUTPUT SHAFT EXTENSIONS. RATIO OF 1:1 FROM DUAL MOTOR INPUT SHAFTS TO HIGH SPEED OUTPUT SHAFT, WITH CENTER DISTANCE AS REQUIRED TO CLEAR OTHER MACHINERY COMPONENTS. RATIO OF 60:1 TO DUAL LOW SPEED OUTPUT SHAFTS. INPUT TORQUE OF 27,011 LB-IN WILL BE DISTRIBUTED EQUALLY BETWEEN SINGLE HIGH SPEED OUTPUT SHAFT AND DUAL LOW SPEED OUTPUT SHAFT. MINIMUM OUTPUT TORQUE CAPACITY OF 819,230 LB-IN, AT 1.0 SERVICE FACTOR. CUSTOM MADE.
R2	OFFSETTING GEARBOX	2	SINGLE REDUCTION SPEED REDUCER, 2:1 RATIO, 27,011 LB-IN OUTPUT TORQUE RATING REQUIRED. 1.0 SERVICE FACTOR.
R3	RIGHT ANGLE GEARBOX	2	SINGLE REDUCTION, RIGHT ANGLE SPEED REDUCER, 1:1 RATIO, 13,506 LB-IN OUTPUT TORQUE RATING REQUIRED. 1.0 SERVICE FACTOR.
R4	INLINE REDUCER	1	DOUBLE REDUCTION SPEED REDUCER, 6.20:1 RATIO, 20,566 LB-IN OUTPUT TORQUE RATING REQUIRED. 1.0 SERVICE FACTOR.
M1	MAIN MOTOR	2	FOOT MOUNTED, 125 HP, 900 RPM SYNCHRONOUS SPEED, 445T FRAME, TENV, 3-PHASE AC MOTOR, WITH ENCODER. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
M2	AUXILIARY MOTOR	1	FOOT MOUNTED, 40/20 HP, 1200/600 RPM, TENV, 3-PHASE AC MOTOR. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
C1	COUPLING	8	SINGLE-ENGAGEMENT GEAR COUPLING WITH STRAIGHT BORES. MINIMUM 410,000 LB-IN TORQUE RATING. A 8 3/4" DIA. BORE WITH KEYWAY TO SUIT R1 OUTPUT SHAFT AND PINION SHAFT. A 6 3/4" DIA. BORE WITH KEYWAY TO SUIT LINE SHAFT.
C2	COUPLING	4	SINGLE-ENGAGEMENT GEAR COUPLING WITH STRAIGHT BORES. MINIMUM 410,000 LB-IN TORQUE RATING. A 6 3/4" DIA. BORE WITH KEYWAY EACH HUB TO SUIT LINE SHAFT.
C3	COUPLING	2	SINGLE-ENGAGEMENT COUPLING WITH STRAIGHT BORES. MINIMUM 13,600 LB-IN TORQUE RATING. A 2 1/2" DIA. BORE WITH KEYWAY TO SUIT R1 OUTPUT SHAFT. A 3 3/4" DIA. BORE WITH KEYWAY TO SUIT OFFSETTING SHAFT.
C4	COUPLING	2	SINGLE-ENGAGEMENT COUPLING WITH STRAIGHT BORES. MINIMUM 13,600 LB-IN TORQUE RATING. A 3 3/4" DIA. BORE WITH KEYWAY TO SUIT OFFSETTING SHAFT. A 2 5/8" DIA. BORE WITH KEYWAY TO SUIT R2 INPUT SHAFT.
C5	COUPLING	2	SINGLE-ENGAGEMENT COUPLING WITH STRAIGHT BORES. MINIMUM 28,000 LB-IN TORQUE RATING. A 3 1/4" DIA. BORE WITH KEYWAY TO SUIT R2 OUTPUT SHAFT. A 5 1/4" DIA. BORE WITH KEYWAY TO SUIT RIGHT ANGLE SHAFT.
C6	COUPLING	2	SINGLE-ENGAGEMENT COUPLING WITH STRAIGHT BORES. MINIMUM 28,000 LB-IN TORQUE RATING. A 5 1/4" DIA. BORE WITH KEYWAY TO SUIT RIGHT ANGLE SHAFT. A 2 1/4" DIA. BORE WITH KEYWAY TO SUIT R3 INPUT SHAFT.
C7	COUPLING	2	SINGLE-ENGAGEMENT COUPLING WITH STRAIGHT BORES. MINIMUM 28,000 LB-IN TORQUE RATING. A 2 7/8" DIA. BORE WITH KEYWAY TO SUIT R3 OUTPUT SHAFT. A 5 1/4" DIA. BORE WITH KEYWAY TO SUIT LONGITUDINAL CROSS SHAFT.
C8	COUPLING	18	SINGLE-ENGAGEMENT COUPLING WITH STRAIGHT BORES. MINIMUM 28,000 LB-IN TORQUE RATING. A 5 1/4" DIA. BORE WITH KEYWAY EACH HUB TO SUIT LONGITUDINAL CROSS SHAFT.
C9	COUPLING	1	GRID-TYPE COUPLING WITH STRAIGHT BORES. MINIMUM 3,400 LB-IN TORQUE RATING. A 2 7/8" DIA. BORE WITH KEYWAY TO SUIT AUXILIARY MOTOR SHAFT. A 1 5/8" DIA. BORE WITH KEYWAY TO SUIT R4 INPUT SHAFT.
CL1	CLUTCH	1	ELECTRICALLY ENGAGED CLUTCH WITH STRAIGHT BORES, 3,200 LB-FT NOMINAL STATIC TORQUE RATING. UNIT SHALL BE DYNAMICALLY BALANCED, WITH SPLIT TYPE NEMA 3R ENCLOSURE AND STRIP HEATER. FURNISH COMPLETE WITH RECTIFIER REQUIRED TO OPERATE THE UNIT. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
BK1	MOTOR BRAKE	1	3 PHASE AC THRUSTER ACTUATED SPRING-SET SHOE BRAKE WITH MANUAL RELEASE, FOR 13" DIA. x 5 3/4" FACE BRAKEWHEEL, TORQUE RATING OF 660 LB-FT, SET TO 560 LB-FT. TYPE 3R ENCLOSURE WITH STRIP HEATER. BK1 AND BW1 SHALL BE COMPATIBLE. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
BK2	MOTOR BRAKE WITH BRAKEWHEEL	1	3 PHASE AC THRUSTER ACTUATED SPRING-SET SHOE BRAKE WITH MANUAL RELEASE, WITH 13" DIA. x 5 3/4" FACE BRAKEWHEEL, TORQUE RATING OF 660 LB-FT, SET TO 560 LB-FT. TYPE 3R ENCLOSURE WITH STRIP HEATER. BRAKEWHEEL FURNISHED WITH BRAKE. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
BK3	MACHINERY BRAKE	1	3 PHASE AC THRUSTER ACTUATED SPRING-SET SHOE BRAKE WITH MANUAL RELEASE, FOR 13" DIA. x 5 3/4" FACE BRAKEWHEEL, TORQUE CAPACITY OF 400 LB-FT SET TO 280 LB-FT. TYPE 3R ENCLOSURE WITH STRIP HEATER. BK3 AND BW1 SHALL BE COMPATIBLE. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
BK4	MACHINERY BRAKE WITH BRAKEWHEEL	1	3 PHASE AC THRUSTER ACTUATED SPRING-SET SHOE BRAKE WITH MANUAL RELEASE, WITH 13" DIA. x 5 3/4" FACE BRAKEWHEEL, TORQUE CAPACITY OF 400 LB-FT SET TO 280 LB-FT. TYPE 3R ENCLOSURE WITH STRIP HEATER. BRAKEWHEEL FURNISHED WITH BRAKE. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.
BW1	BRAKEWHEEL COUPLING	2	13" DIA. x 5 3/4" FACE BRAKEWHEEL GRID COUPLING WITH STRAIGHT BORES. MINIMUM 13,600 LB-IN TORQUE RATING. RIGID HUB WITH 2 1/2" DIA. BORE AND KEYWAY TO SUIT R1 MAIN INPUT SHAFT. FLEXIBLE HUB WITH 3 3/8" DIA. BORE AND KEYWAY TO SUIT M1 SHAFT. BK1 AND BW1 SHALL BE COMPATIBLE. BK3 AND BW1 SHALL BE COMPATIBLE. FURNISHED BY ELECTRICAL, INSTALLED BY MECHANICAL.

MACHINERY SCHEDULE

ITEM NO.	ITEM	QTY.	DESIGN REQUIREMENTS
S1	PINION SHAFT	4	8 3/4"Ø INTEGRAL PINION SHAFT. FORGED ALLOY STEEL, ASTM A 291 GRADE 7 CLASS H. 18 TEETH, 3 1/2" CIRCULAR PITCH, 20° INVOLUTE FULL DEPTH TEETH, 7 1/4" FACE. SHAFT SHALL BE MACHINED CONCENTRIC FULL LENGTH.
G1	DRUM GEAR	4	FORGED CARBON STEEL, ASTM A 668 CLASS D. 74 TEETH, 3 1/2" CIRCULAR PITCH, 20° INVOLUTE FULL DEPTH TEETH, 6 3/4" FACE.
S2	OPERATING DRUM SHAFT	4	FORGED CARBON STEEL SHAFT, ASTM A 668 CLASS D. SHAFT SHALL BE MACHINED CONCENTRIC FULL LENGTH.
S3	LINE SHAFT	8	6 3/4"Ø ALLOY STEEL SHAFT, ASTM A 434 4140 HOT ROLLED CLASS BB. LENGTHS AS REQUIRED.
S4	LONGITUDINAL CROSS SHAFT	19	5 1/4"Ø ALLOY STEEL SHAFT, ASTM A 434 4140 HOT ROLLED CLASS BB. 178" LONG
	OPERATING DRUM ASSEMBLY	2 RH/ 2 LH	72" PITCH DIA. DRUM ASSEMBLY.
	COUNTERWEIGHT TRUNNION SHAFT	4	FORGED CARBON STEEL SHAFT.
	COUNTERWEIGHT SHEAVE	4	135" PITCH DIAMETER SHEAVE ASSEMBLY; 16 GROOVES FOR 1-7/8" DIA. ROPES.
	COUNTERWEIGHT ROPE ASSEMBLY	64	1-7/8" DIA. EXTRA EXTRA IMPROVED PLOW STEEL ROPE. 6 X 25 FILLER WIRE CONSTRUCTION WITH INDEPENDENT WIRE ROPE CORE. APPROXIMATE LENGTH 180'.
	OPERATING ROPE ASSEMBLY	16	1-1/2" DIA. EXTRA EXTRA IMPROVED PLOW STEEL ROPE. 6 X 25 FILLER WIRE CONSTRUCTION WITH INDEPENDENT WIRE ROPE CORE. APPROXIMATE LENGTH 155'.
	MACHINERY HOUSE HOIST	2	5 TON CAPACITY ELECTRIC WIRE ROPE HOIST WITH MANUAL TROLLEY. MINIMUM 30 FOOT LIFT. 10 FPM MINIMUM SPEED
	TOWER HOIST	2	ELECTRIC WIRE ROPE HOIST WITH MINIMUM CAPACITY 1 TON AT A 25 FEET RADIUS. 10 FPM MINIMUM SPEED. REQUIRED WIRE ROPE LENGTH 175 FEET.
	CONTROL HOUSE HOIST	1	ELECTRIC WIRE ROPE HOIST WITH MINIMUM CAPACITY 1 TON. MINIMUM 30 FOOT LIFT. 10 FPM MINIMUM SPEED.

MACHINERY SCHEDULE

ITEM NO.	ITEM	QTY.	DESIGN REQUIREMENTS	SUITABLE EQUIPMENT
B1	PINION SHAFT BEARING	4 FLOAT	SPHERICAL ROLLER BEARING PILLOW BLOCK ASSEMBLY WITH CAST STEEL HOUSING AND SOLID BASE. MINIMUM DYNAMIC LOAD RATING 346,000 LB. ASSEMBLY TO INCLUDE TAPERED ADAPTER, LOCKNUT AND WASHER AND TRIPLE RING SEALS. FIELD DRILL BASE FOR TURNED BOLTS AT ASSEMBLY.	SAFS23056K-10 - FL
B2	PINION SHAFT BEARING	4 FIXED	SPHERICAL ROLLER BEARING PILLOW BLOCK ASSEMBLY WITH CAST STEEL HOUSING AND SOLID BASE. MINIMUM DYNAMIC LOAD RATING 346,000 LB. ASSEMBLY TO INCLUDE TAPERED ADAPTER, LOCKNUT AND WASHER, STABILIZING RING, AND TRIPLE RING SEALS. FIELD DRILL BASE FOR TURNED BOLTS AT ASSEMBLY.	SAFS23056K-10 7/16
B3	OPERATING DRUM BEARING	4 FIXED 4 FLOAT	SPHERICAL ROLLER BEARING PILLOW BLOCK ASSEMBLY WITH CAST STEEL HOUSING AND SOLID BASE. MINIMUM DYNAMIC LOAD RATING 515,000 LBS. ASSEMBLY TO INCLUDE TAPERED ADAPTER, LOCKNUT AND WASHER, AND TRIPLE RING SEALS. FIELD DRILL BASE FOR TURNED BOLTS AT ASSEMBLY.	SDAFS23072K-13 7/16
B4	COUNTERWEIGHT SHEAVE BEARING	4 FIXED 4 FLOAT	SPHERICAL ROLLER BEARING PILLOW BLOCK ASSEMBLY WITH CAST STEEL HOUSING AND SOLID BASE. MINIMUM STATIC LOAD RATING 5,500,000 LBS. ASSEMBLY TO INCLUDE TRIPLE RING SEALS. FIELD DRILL BASE FOR TURNED BOLTS AT ASSEMBLY.	232/600K
B5	LINE SHAFT BEARING	4	SPHERICAL ROLLER BEARING PILLOW BLOCK ASSEMBLY WITH CAST STEEL HOUSING AND SOLID BASE. MINIMUM STATIC LOAD RATING 346,400 LBS. ASSEMBLY TO INCLUDE TAPERED ADAPTER, LOCKNUT AND WASHER AND TRIPLE RING SEALS. FIELD DRILL BASE FOR TURNED BOLTS AT ASSEMBLY.	SAFS22536K
B6	LONGITUDINAL CROSS SHAFT BEARING	18	SPHERICAL ROLLER BEARING PILLOW BLOCK ASSEMBLY WITH CAST STEEL HOUSING AND SOLID BASE. MINIMUM STATIC LOAD RATING 209,000 LBS. ASSEMBLY TO INCLUDE TAPERED ADAPTER, LOCKNUT AND WASHER AND TRIPLE RING SEALS. FIELD DRILL BASE FOR TURNED BOLTS AT ASSEMBLY.	SDAFS22528

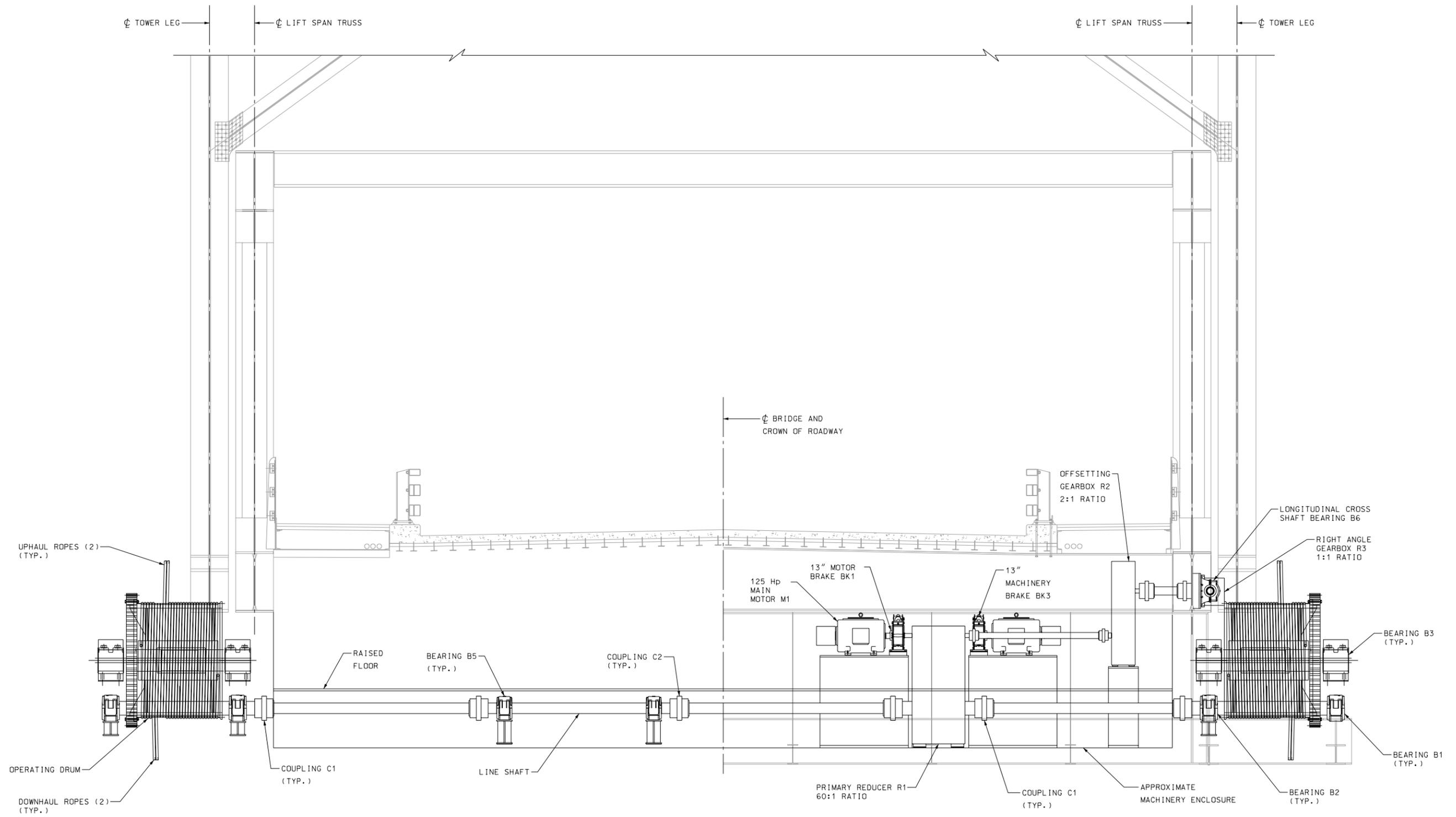
PRELIMINARY PLANS
SEPTEMBER 12, 2011



HNTB Corporation
The HNTB Companies
Engineers Architects Planners

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN	STOWNS	BRIDGE NO.	SBRNOS	STATE PROJECT	SSTNOS						
LOCATION SBRDESCRS						MACHINERY SCHEDULE					
REVISIONS AFTER PROPOSAL						BY	DATE	BY	DATE		
						DESIGNED	JWW	08/11	CHECKED	WEN	08/11
						DRAWN	PBH	08/11	CHECKED	WEN	08/11
						QUANTITIES	XX	XX/XX	CHECKED	XX	XX/XX
						ISSUE DATE		FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS	
						REV. DATE		XXXXXX	XX	\$CSHTOTS	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	SFILENAME	SCALE



MACHINERY CROSS SECTION

3/8" = 1'-0"

SECTION AT SOUTH TOWER LOOKING SOUTH

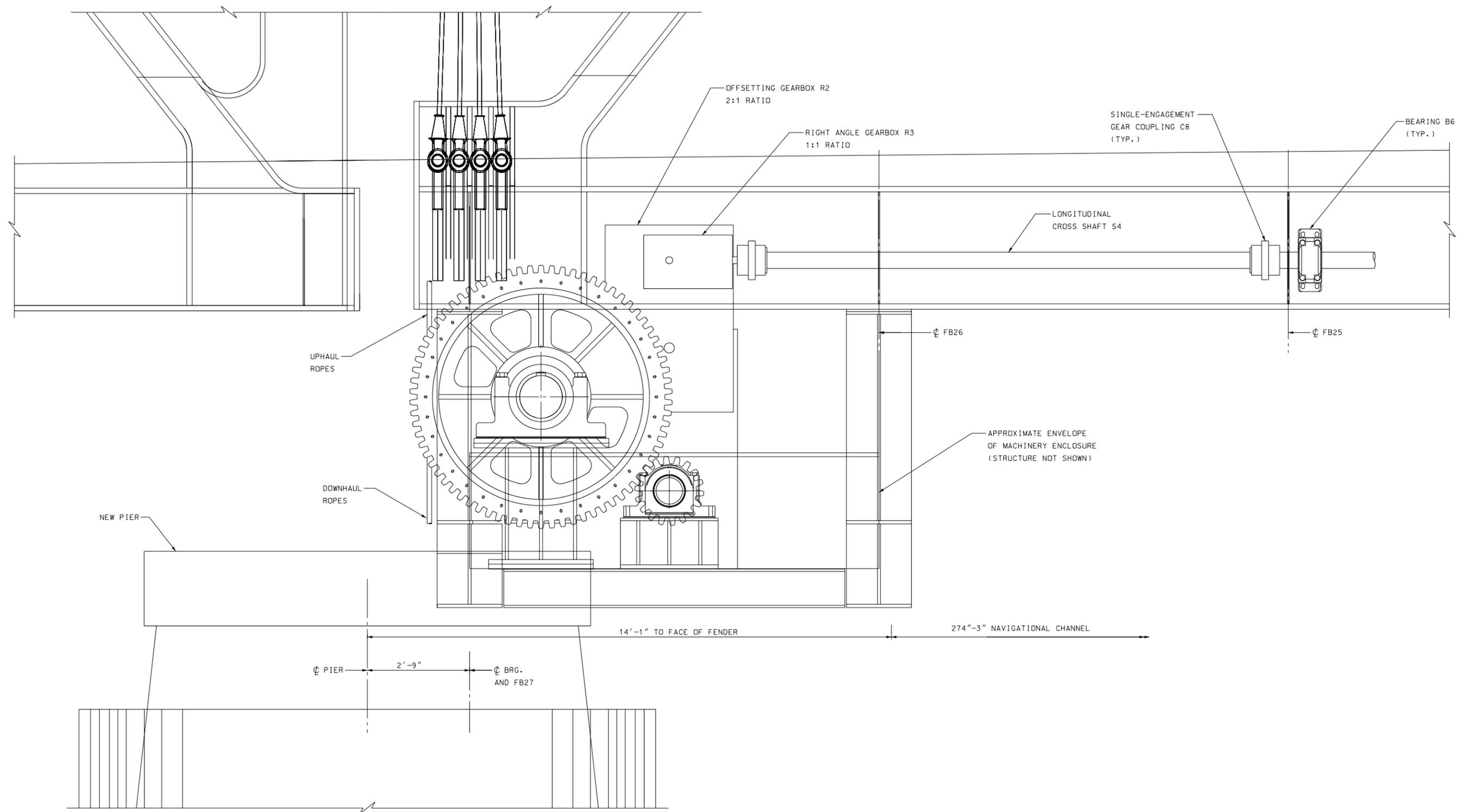
NOTE: OPPOSITE END OF SPAN SIMILAR;
AUXILIARY MOTOR ASSEMBLY IN PLACE OF MAIN MOTORS

PRELIMINARY PLANS
SEPTEMBER 12, 2011



SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
XX	\$FILENAME\$	SCALE

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	STOWNS	BRIDGE NO.		SBRNOS	STATE PROJECT	\$STNOS\$			
LOCATION SBRDESCRS									
MACHINERY CROSS-SECTION									
REVISIONS AFTER PROPOSAL		BY	DATE	BY	DATE	BRIDGE SHEET			
		JWW	08/11	CHECKED	WEN	M-2 OF M-8			
		PBH	08/11	CHECKED	WEN	FILE NUMBER			
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ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS			
REV. DATE		XXXXXX		XX		\$CSHTOTS\$			



MACHINERY ELEVATION

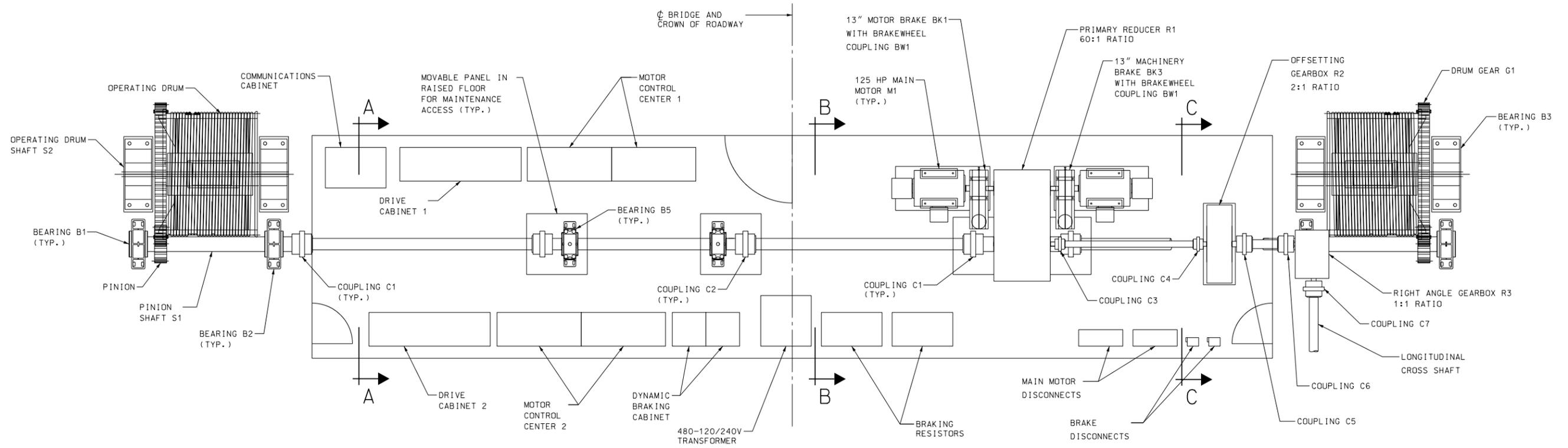
MACHINERY AT NORTH END OF LIFT SPAN SHOWN, LOOKING EAST

3/4" = 1'-0"

PRELIMINARY PLANS
SEPTEMBER 12, 2011

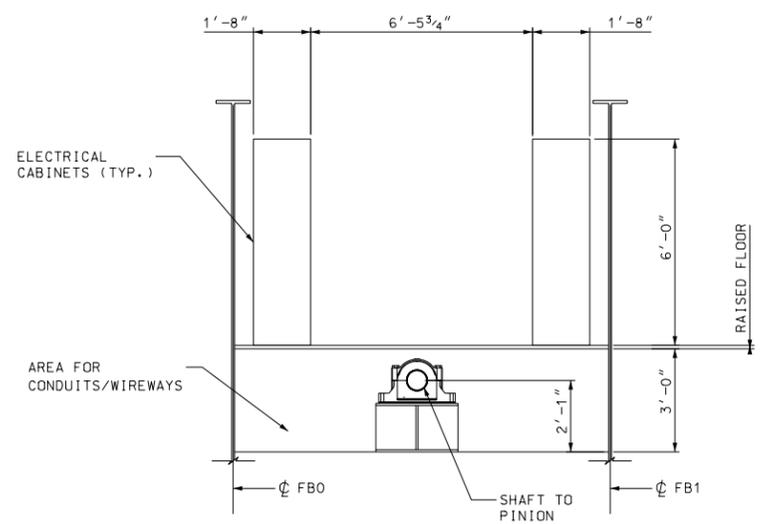


STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN	STOWNS	BRIDGE NO.	SBRNOS	STATE PROJECT	SSTNOS						
LOCATION SBRDESCRS											
MACHINERY ELEVATION										BRIDGE SHEET	M-3 of M-8
REVISIONS AFTER PROPOSAL											
DESIGNED	JWW	08/11	CHECKED	WEN	08/11	BY	DATE	BY	DATE	FILE NUMBER	
DRAWN	PBH	08/11	CHECKED	WEN	08/11	XX	XX/XX	XX	XX/XX	SBRFILNOS	
QUANTITIES	XX	XX/XX	CHECKED	XX	XX/XX	FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS	
ISSUE DATE						XXXXXX		XX		SCSHTOTS	
REV. DATE											
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE									
XX	SFILENAMES	SCALE									



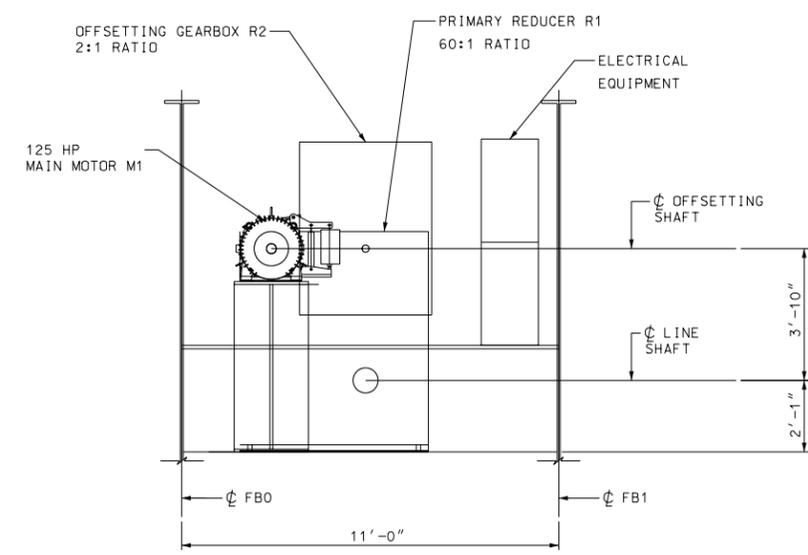
SOUTH MACHINERY LAYOUT - PLAN VIEW

$\frac{3}{8}'' = 1' - 0''$



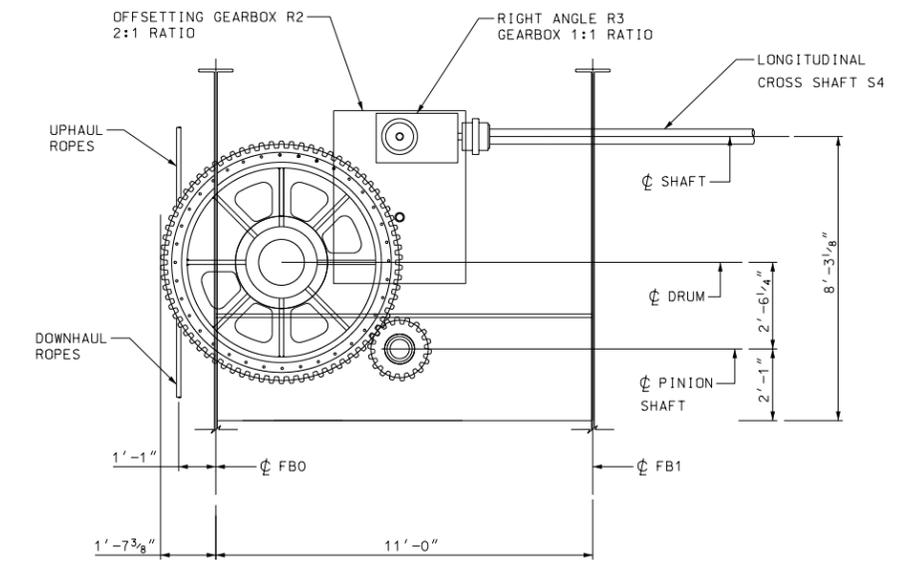
SECTION A-A

$\frac{3}{8}'' = 1' - 0''$



SECTION B-B

$\frac{3}{8}'' = 1' - 0''$



SECTION C-C (SHOWN)

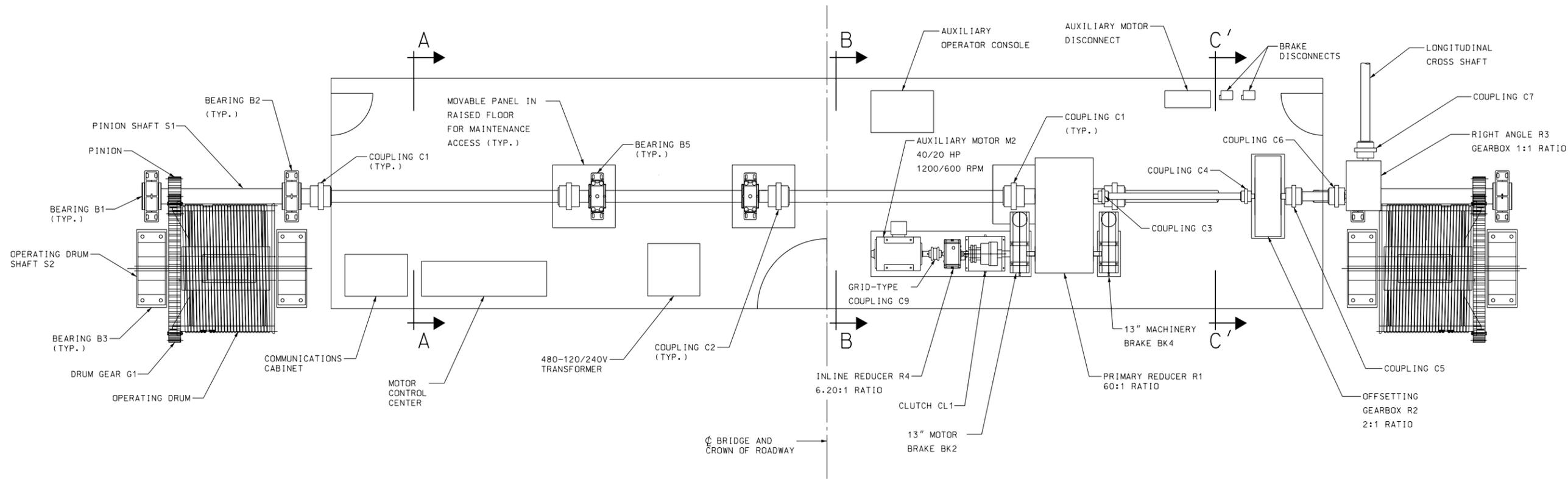
SECTION C'-C' (SHEET M-5 OPP. HAND)

$\frac{3}{8}'' = 1' - 0''$

PRELIMINARY PLANS
SEPTEMBER 12, 2011

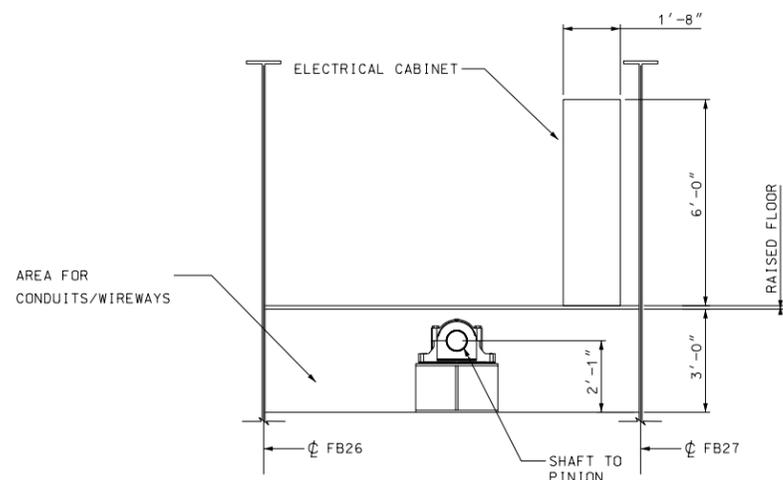


STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN	STOWNS	BRIDGE NO.		SBRNOS	STATE PROJECT	SSTNOS					
LOCATION SBRDESCRS											
SOUTH MACHINERY PLAN VIEW											
BRIDGE SHEET											
M-4 of M-8											
REVISIONS AFTER PROPOSAL											
DESIGNED	JWW	08/11	CHECKED	WEN	08/11	BY	DATE	FILE NUMBER			
DRAWN	JWW	08/11	CHECKED	WEN	08/11	BY	DATE	FILE NUMBER			
QUANTITIES	XX	XX/XX	CHECKED	XX	XX/XX	BY	DATE	FILE NUMBER	SBRFILNOS		
ISSUE DATE			FEDERAL PROJECT NO.			SHEET NO.			TOTAL SHEETS		
REV. DATE			XXXXXX			XX			SCSHTOTS		
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE									
XX	SFILENAME	SCALE									



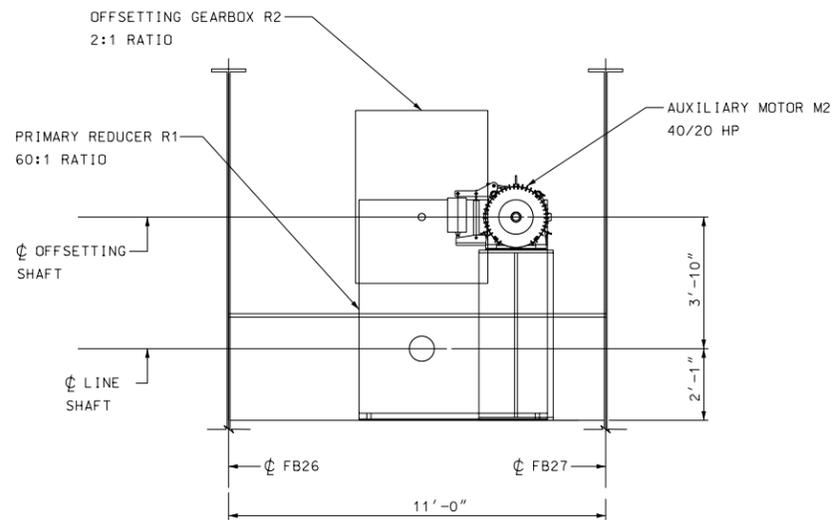
NORTH MACHINERY LAYOUT - PLAN VIEW

3/8" = 1'-0"



SECTION A-A

3/8" = 1'-0"



SECTION B-B

3/8" = 1'-0"

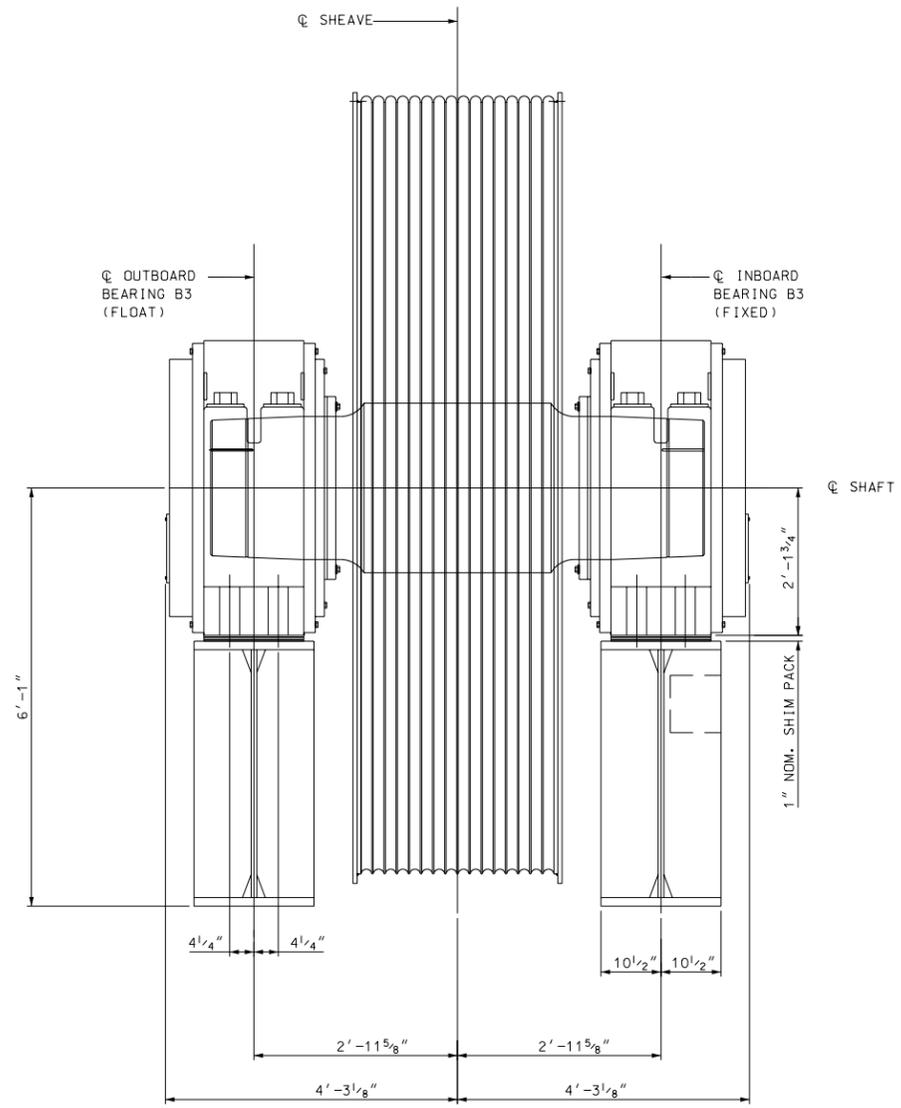
NOTE: FOR SECTION C'-C', SEE SHEET M-4.

PRELIMINARY PLANS
SEPTEMBER 12, 2011

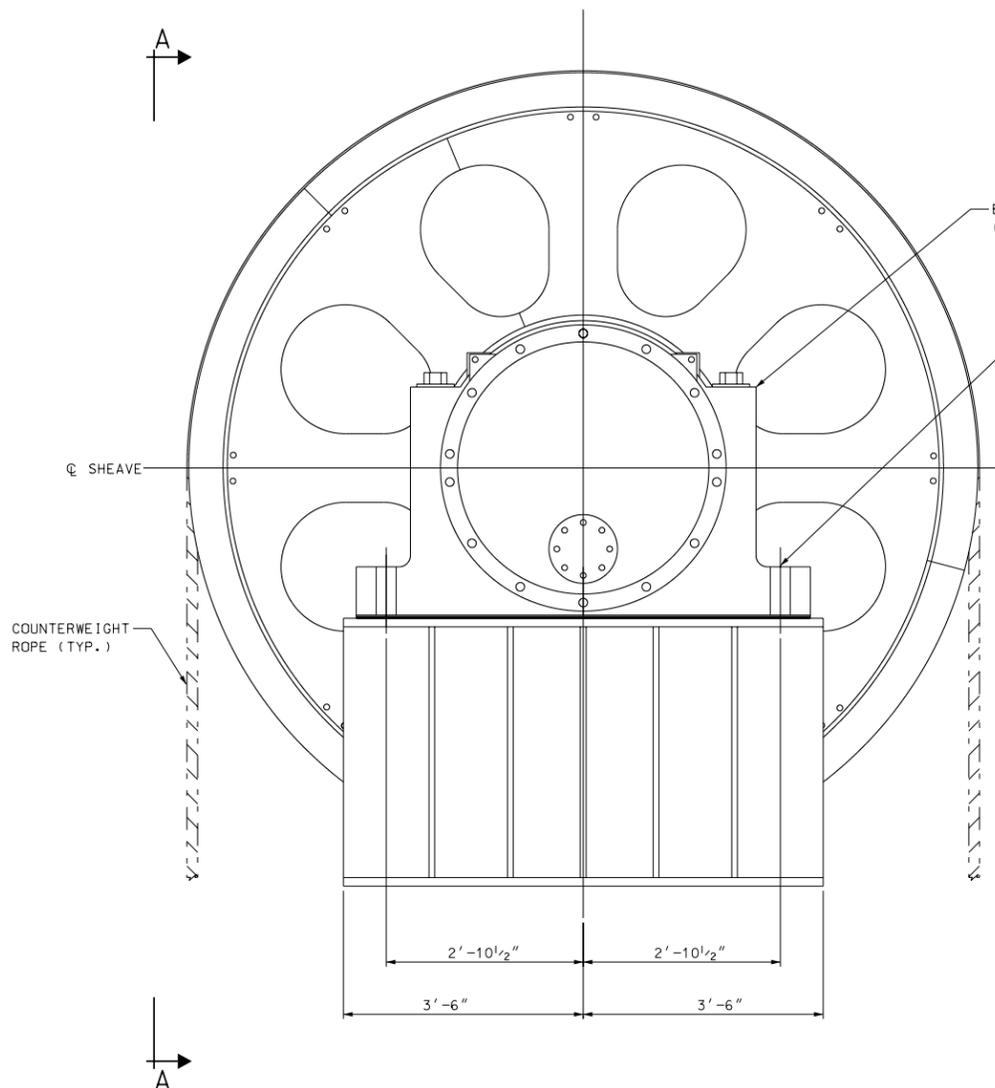


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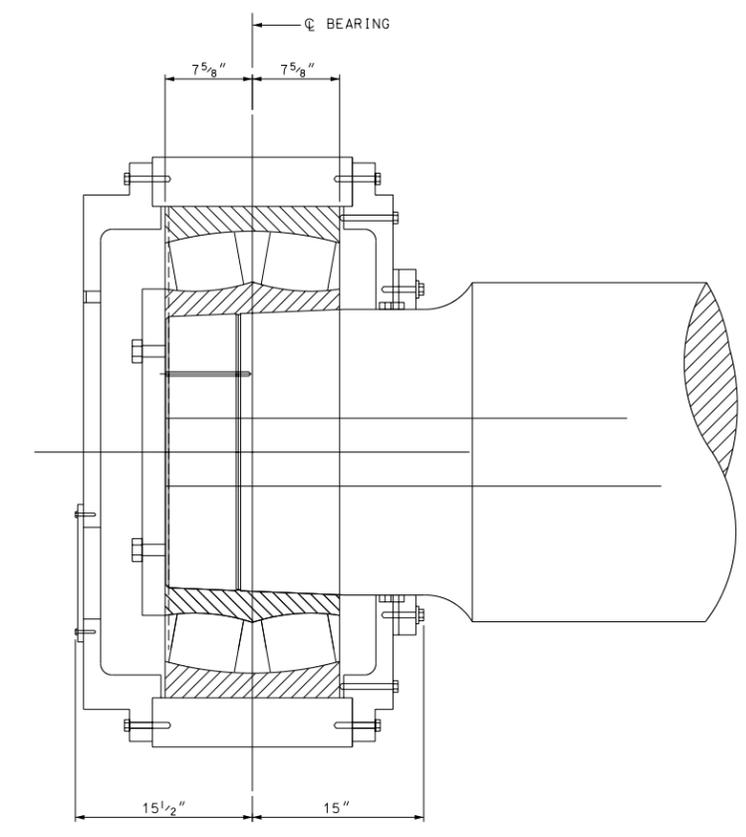
STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN	STOWNS	BRIDGE NO.	SBRNOS	STATE PROJECT	SSTNOS						
LOCATION SBRDESCRS											
NORTH MACHINERY PLAN VIEW										BRIDGE SHEET	M-5 of M-8
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE					
		JWW	08/11	WEN	08/11						
		JWW	08/11	WEN	08/11						
QUANTITIES		XX	XX/XX	CHECKED	XX	XX/XX					
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.		TOTAL SHEETS					
REV. DATE	XXXXXX			XX		SCSHTOTS					
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE									
XX	SFILENAME	SCALE									



VIEW A-A
SCALE: 3/4" = 1'



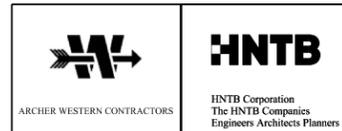
SHEAVE ASSEMBLY - ELEVATION
SCALE: 3/4" = 1'
(4) ASSEMBLIES REQUIRED



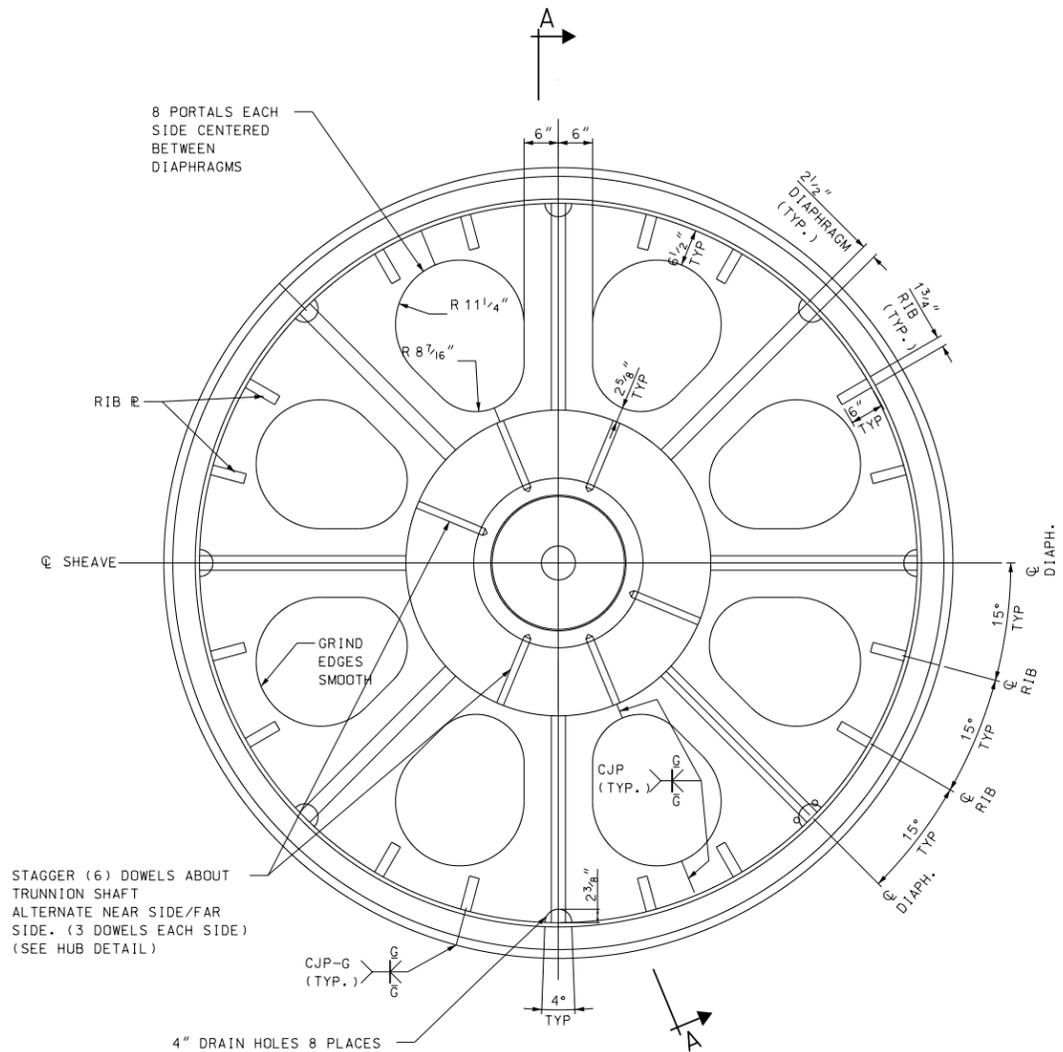
BEARING ASSEMBLY
SCALE: 1 1/2" = 1'

- NOTES:**
- SHAFT FITS AND FINISHES TO BE COORDINATED WITH BEARING MANUFACTURER.
 - FINAL ALIGNMENT OF SHEAVES TO BE CONFIRMED WHEN UNDER FULL LOAD OF SPAN AND COUNTERWEIGHT.

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LOCATION SBRDESCRS											
COUNTERWEIGHT SHEAVE ASSEMBLY											
BRIDGE SHEET											
REVISIONS AFTER PROPOSAL										M-6 OF M-8	
DESIGNED	JWW	08/11	CHECKED	WEN	08/11	FILE NUMBER					
DRAWN	PBH	08/11	CHECKED	WEN	08/11	SBRFILNOS					
QUANTITIES	XX	XX/XX	CHECKED	XX	XX/XX	TOTAL SHEETS					
ISSUE DATE	FEDERAL PROJECT NO.				SHEET NO.		TOTAL SHEETS				
REV. DATE	XXXXXX				XX		SCSHTOTS				
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE									
XX	SFILENAMES										

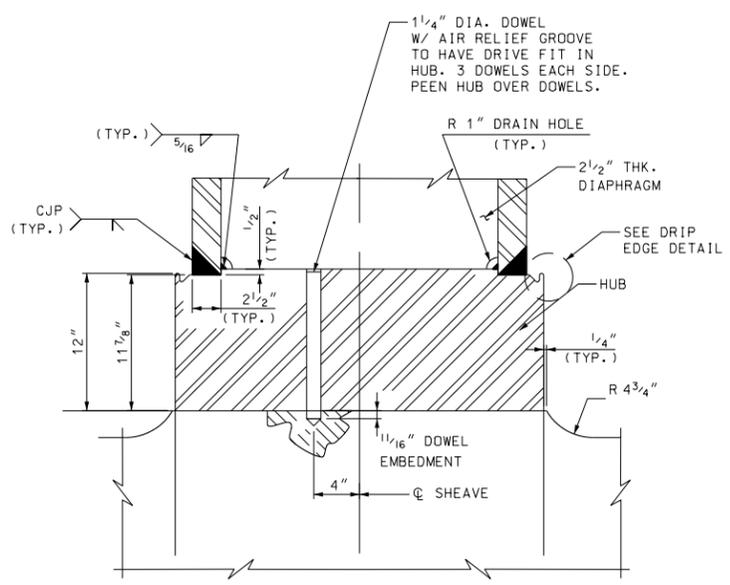


SHEAVE WELDMENT

SCALE: 3/4" = 1'
(4) ASSEMBLIES REQUIRED

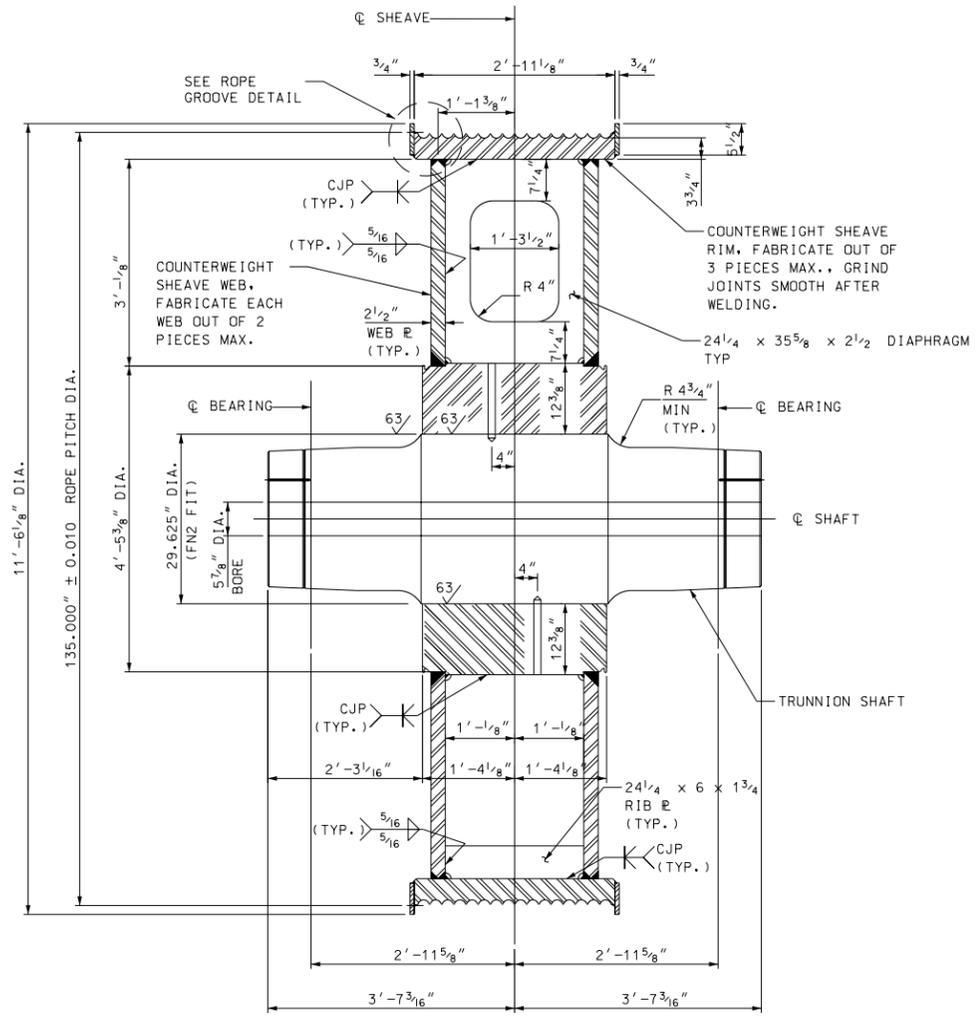
STAGGER (6) DOWELS ABOUT TRUNNION SHAFT ALTERNATE NEAR SIDE/FAR SIDE. (3 DOWELS EACH SIDE) (SEE HUB DETAIL)

4" DRAIN HOLES 8 PLACES EACH WEB. DRILL AFTER STRESS RELIEVING. GRIND SMOOTH W/ INSIDE DIAMETER OF RIM.



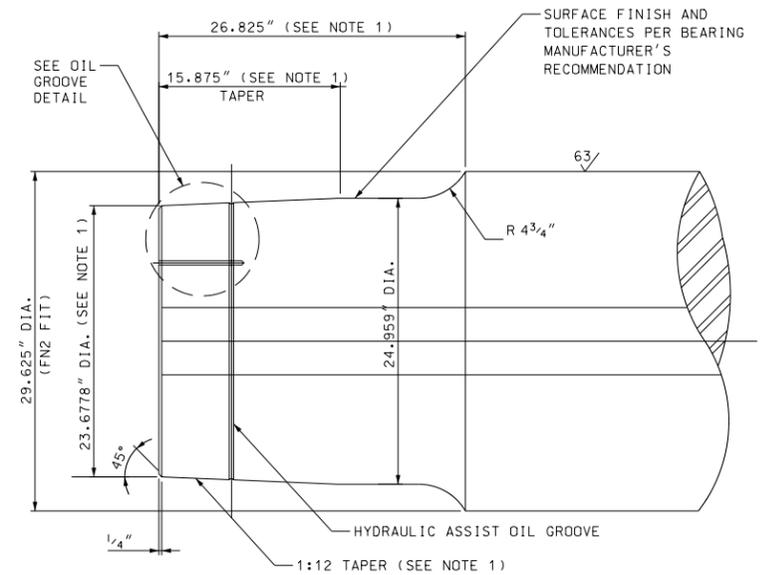
HUB DETAIL

SCALE: 1 1/2" = 1'



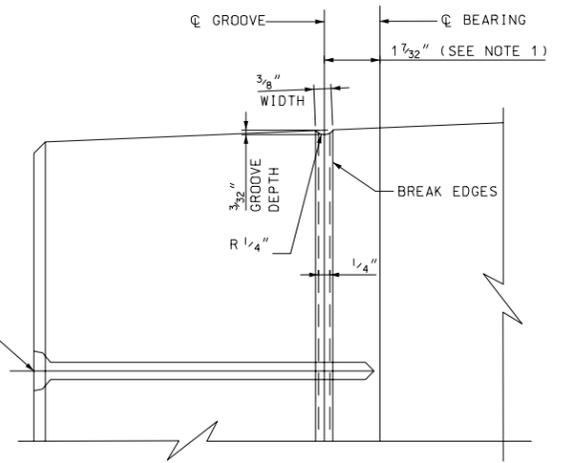
SECTION A-A

SCALE: 3/4" = 1'



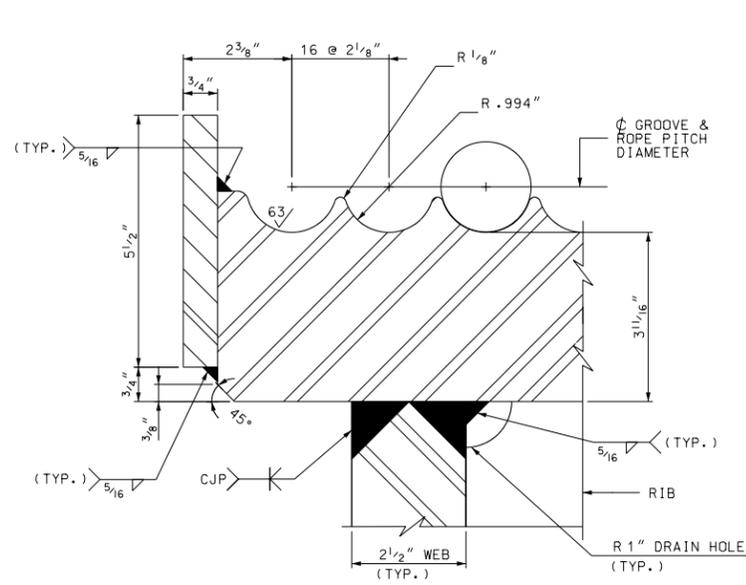
SHAFT END DETAIL

SCALE: 1 1/2" = 1'



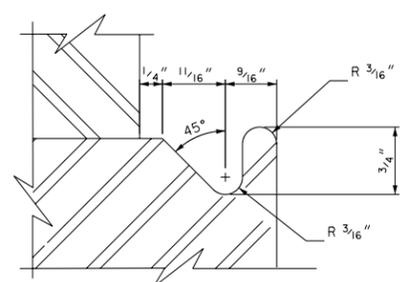
OIL GROOVE DETAIL

SCALE: 6" = 1'



RIB & ROPE GROOVE DETAIL

SCALE: 6" = 1'
ROPE GROOVE TO BE FINISHED TO 63 MICROINCHES



DRIP EDGE DETAIL

SCALE: 1" = 1'

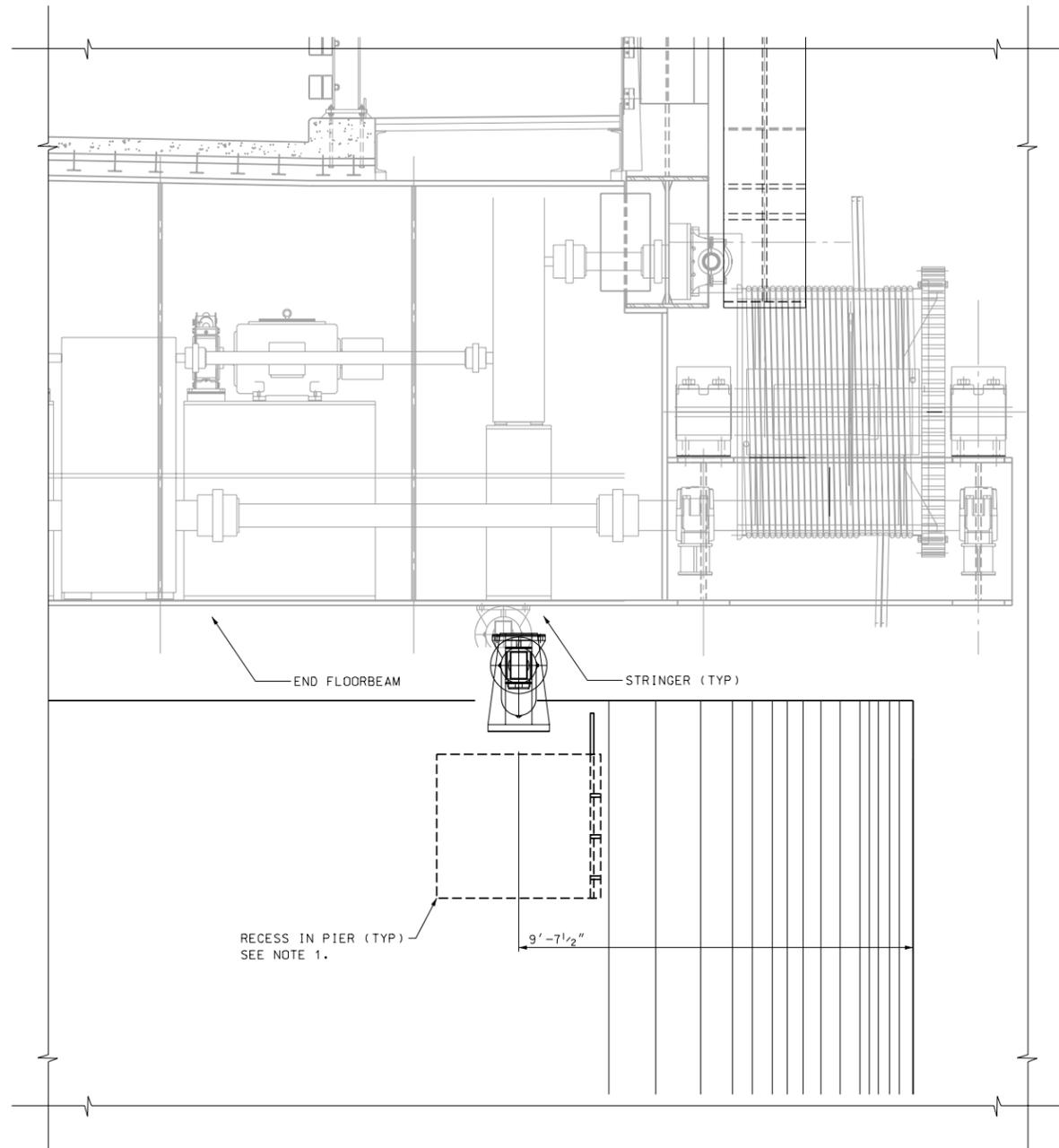
- NOTES:**
- COORDINATE DIMENSIONS WITH BEARING MANUFACTURER
 - ALL SHEAVE ASSEMBLY MATERIAL TO BE STRUCTURAL CARBON STEEL (ASTM A 709 GRADE 50), UNLESS OTHERWISE NOTED. RIM TO BE ASTM A36 (AASHTO M 183). HUB, DOWELS, AND SHAFT TO BE FORGED CARBON STEEL ASTM A668 CLASS D. HUB MATERIAL MAX. 0.35% CARBON CONTENT.
 - WELDMENT TO BE STRESS RELIEVED AFTER WELDING AND BEFORE MACHINING. UNLESS OTHERWISE SPECIFIED, THE SHEAVE ASSEMBLY SHALL BE STRESS RELIEVED BY HEAT TREATMENT.

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ARCHER WESTERN CONTRACTORS
HNTB
The HNTB Companies
Engineers Architects Planners

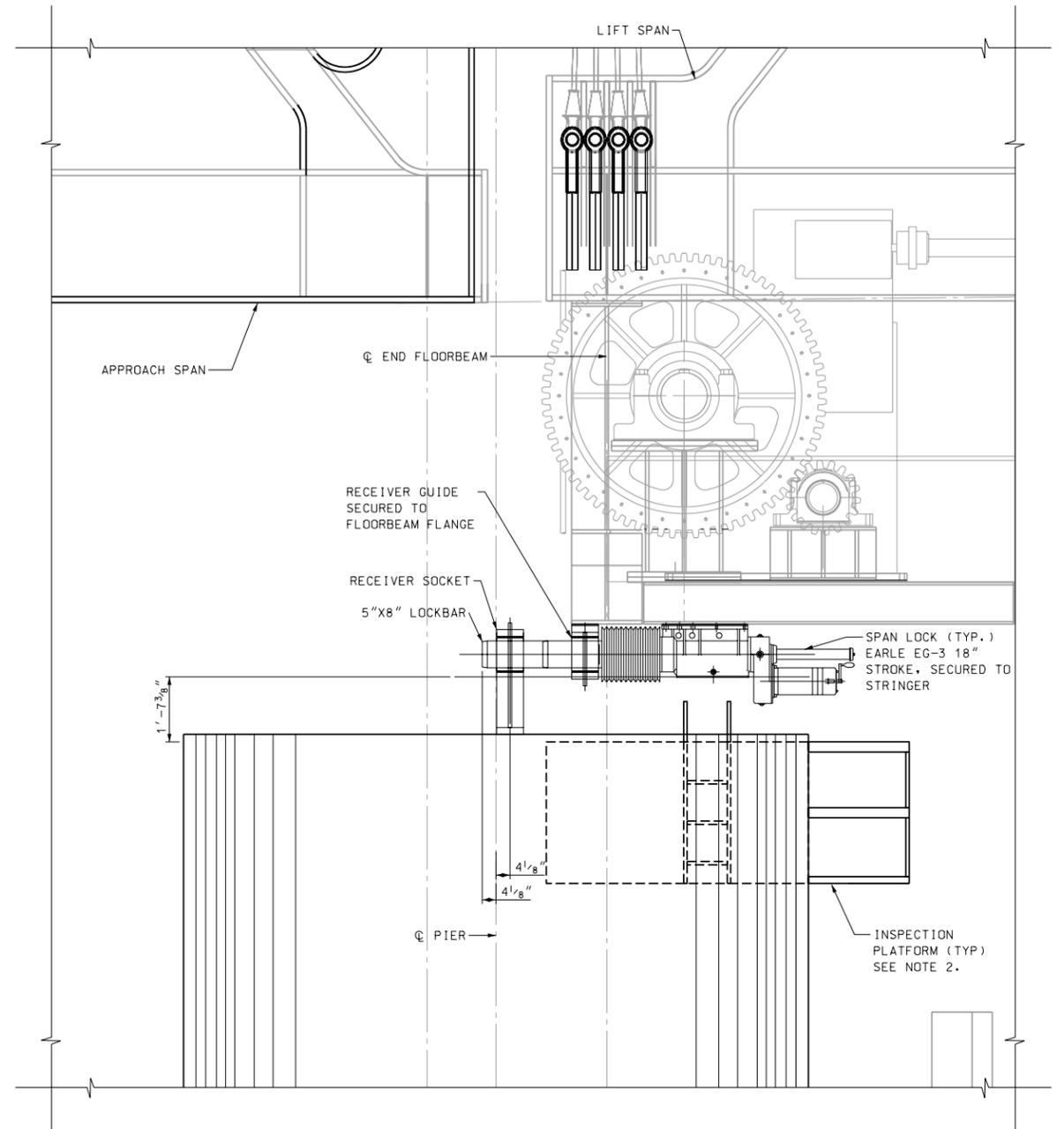
STATE OF NEW HAMPSHIRE												
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN												
TOWN	STOWNS	BRIDGE NO.	SBRNOS	STATE PROJECT	SSTNOS							
LOCATION SBRDESCRS						COUNTERWEIGHT SHEAVE DETAILS						
REVISIONS AFTER PROPOSAL						BY	DATE	BY	DATE	BRIDGE SHEET		
						DESIGNED	JWW	08/11	CHECKED	WEN	08/11	M-7 of M-8
						DRAWN	JWW	08/11	CHECKED	WEN	08/11	FILE NUMBER
						QUANTITIES	XX	XX/XX	CHECKED	XX	XX/XX	SBRFILNOS
						ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS	
						REV. DATE	XXXXXX			XX	CSHTOTS	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	SFILENAME	SCALE



LIFT SPAN CROSS SECTION AT SOUTH TOWER

(LOOKING NORTH)
1/2" = 1'-0"



LIFT SPAN ELEVATION AT SOUTH TOWER

(LOOKING WEST)
1/2" = 1'-0"

NOTES:

1. RECESSES IN PIERS TO PROVIDE FULL ACCESS TO SPAN LOCKS DURING INSPECTION. RECESSES TO CONFORM FULLY TO OSHA REQUIREMENTS. DIMENSIONS TBD.

2. INSPECTION PLATFORMS TO PROVIDE ACCESS TO SPAN LOCK MANUAL HAND CRANKS. PLATFORMS TO CONFORM FULLY TO OSHA REQUIREMENTS. DIMENSIONS TBD.

PRELIMINARY PLANS
SEPTEMBER 12, 2011



HNTB Corporation
The HNTB Companies
Engineers Architects Planners

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
XX	\$FILENAME\$	1/2" = 1'-0"

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	STOWNS	BRIDGE NO.	SBRNOS	STATE PROJECT	SSTNOS	BRIDGE SHEET			
LOCATION SBRDESCRS						M8 of M-8			
SPAN LOCKS									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	FILE NUMBER		
		DESIGNED	JWW 08/11	CHECKED	WEN	08/11	SBRFILNOS		
		DRAWN	GPD 08/11	CHECKED	WEN	08/11	TOTAL SHEETS		
		QUANTITIES	XX XX/XX	CHECKED	XX	XX/XX	SCSHTOTS		
		ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.			
		REV. DATE	XXXXXX			XX			