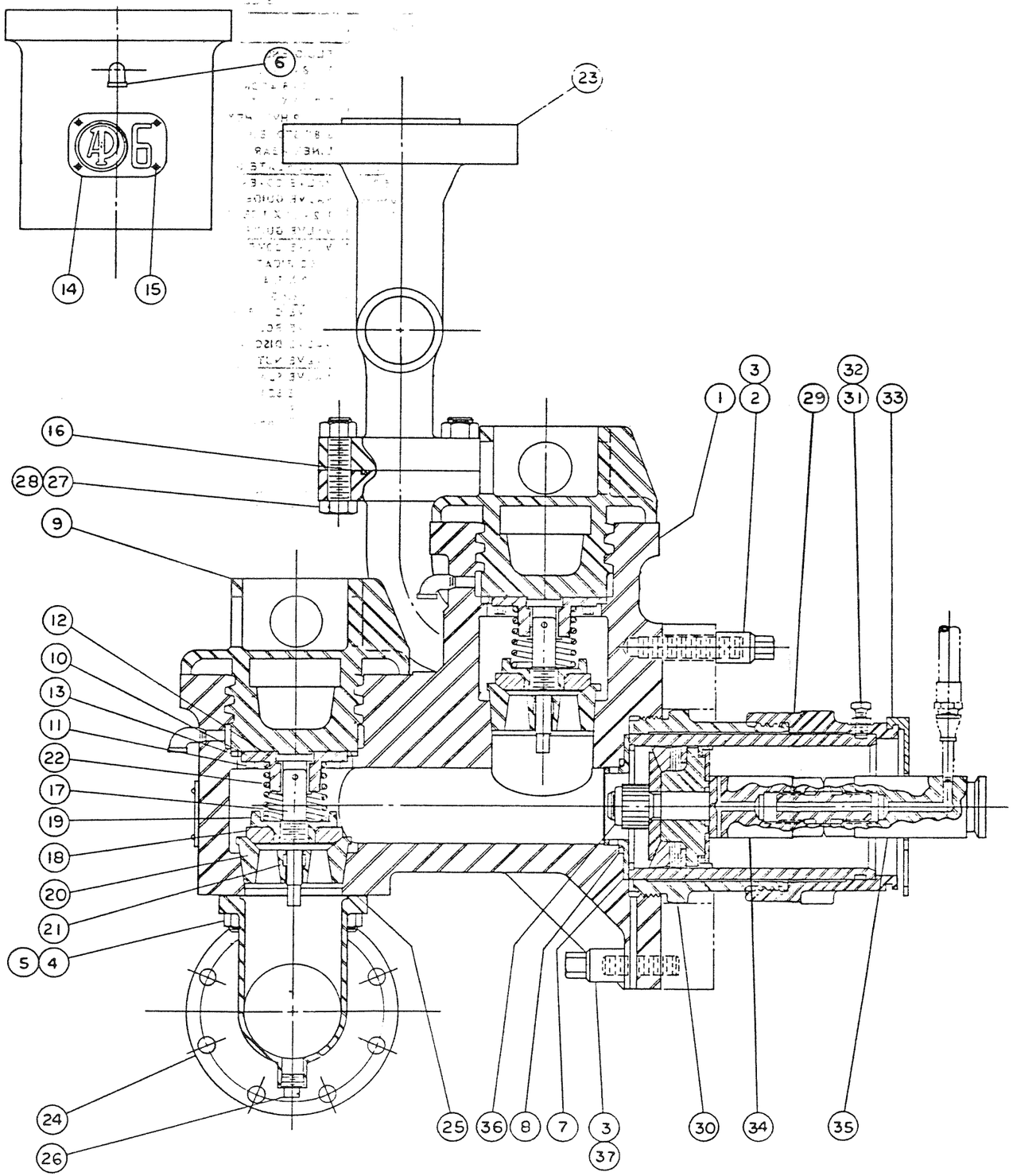
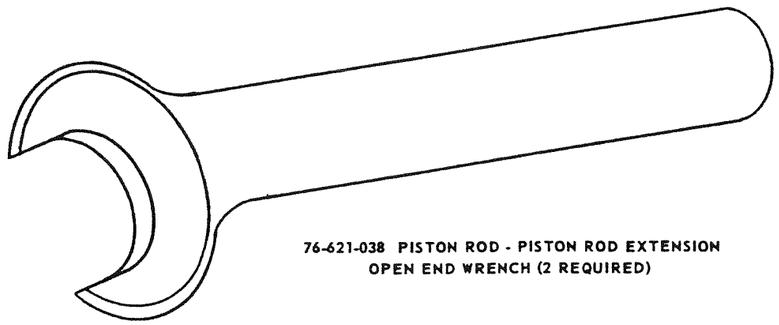


BILL OF MATERIAL

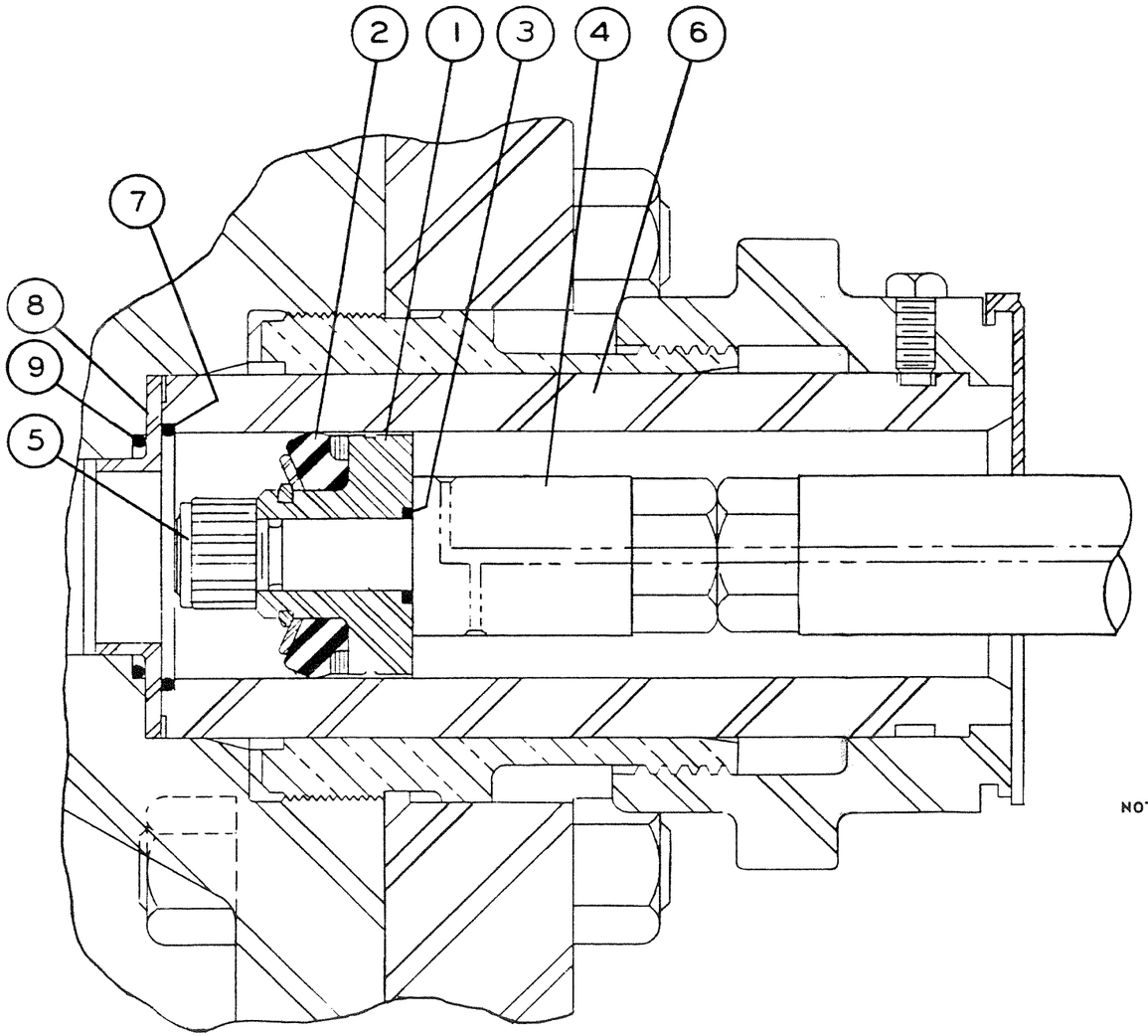
ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	3	10-305-002	FLUID END - STUDDED (INCL. ITEMS 2, 4 THRU 8 & 6 PIECES OF ITEM 3)
2	6	45-810-020	1-1/8 - 8 X 5-1/4 STUD
3	12	10-200-004	1-1/8 - 8 ACORN NUT
4	12	45-810-018	7/8 - 9 X 3 STUD
5	12	75-510-314	7/8 - 9 HVY. HEX NUT
6	6	86-342-103	3/8"" STD. B.M. STREET ELL
7	3	10-305-110	LINER WEAR PLATE
8	3	20-100-014	WEAR PLATE GASKET
9	6	10-305-097	VALVE COVER
10	6	10-305-098	VALVE GUIDE
11	24	75-632-135	1/2 - 13 X 1 SELF LOCKING CAPSCREW
12	6	20-200-004	VALVE GUIDE BUSHING
13	6	10-268-004	VALVE COVER GASKET
14	3	10-305-126	SPECIFICATION PLATE
15	12	75-632-012	No. 2 X 1/4 DRIVE SCREW
16	3	99-609-343	"O" RING (3-5/8 X 4 X 3/16)
	6	20-160-171	VALVE COMPLETE (INCL. ITEMS 17, 18 & 19)
17	6	20-160-177	VALVE BODY
18	6	20-180-024	VALVE DISC (POLYURETHANE)
19	6	20-860-022	VALVE NUT
	6	20-220-099	VALVE SEAT W/ BUSHING (ITEMS 20 & 21)
20	6	20-220-097	VALVE SEAT
21	6	20-101-767	VALVE SEAT BUSHING
22	6	20-160-081	VALVE SPRING (OIL TEMP. STEEL)
23	1	10-305-090	DISCHARGE MANIFOLD
24	1	10-305-087	SUCTION MANIFOLD (INCLUDES ITEM 26)
25	3	10-305-103	SUCTION MANIFOLD GASKET
26	1	86-486-108	1" STD. C.I. PIPE PLUG
27	12	75-635-139	1-1/8 - 7 X 4-1/4 CAPSCREW
28	12	75-510-318	1-1/8 - 7 HVY. HEX NUT
29	3	10-305-037	LINER NUT
30	3	10-305-020	LINER ADAPTER
31	9	75-632-735	5/8 - 11 X 1-1/4 DOG POINT SQ. HD. SET SCREW
32	9	75-510-508	5/8 - 11 HEX JAM NUT
33	3	20-460-666	LINER FLUSHING SHEILD
34	3	20-150-123	PISTON ROD
35	3	20-150-124	PISTON ROD EXTENSION
36	3	20-150-003	PISTON RETAINING NUT
37	6	45-810-019	1-1/8 - 8 X 4 STUD

FLUID END ASSEMBLY
350-PT TRIPLEX PISTON PUMP

TECH.		P190 - BF1	C



76-621-038 PISTON ROD - PISTON ROD EXTENSION
OPEN END WRENCH (2 REQUIRED)



NOTE: PISTON RUBBERS ARE OF A SPECIAL COMPOUND FORMULATED FOR BOTH WATER BASE AND OIL BASE DRILLING FLUIDS.

BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1*	3	20-020-500	4 PISTON COMPLETE*
	3	20-020-501	4-1/2 PISTON COMPLETE*
	3	20-020-502	5 PISTON COMPLETE*
	3	20-020-503	5-1/2 PISTON COMPLETE*
	3	20-020-504	5-3/4 PISTON COMPLETE*
	3	20-020-505	6 PISTON COMPLETE*
	3	20-020-507	6-1/2 PISTON COMPLETE*
	3	20-020-509	7 PISTON COMPLETE*
2**	3	20-040-051	4 PISTON RUBBERS**
	3	20-040-001	4-1/2 PISTON RUBBERS**
	3	20-040-005	5 PISTON RUBBERS**
	3	20-040-009	5-1/2 PISTON RUBBERS**
	3	20-040-011	5-3/4 PISTON RUBBERS**
	3	20-040-013	6 PISTON RUBBERS**
	3	20-040-037	6-1/2 PISTON RUBBERS**
	3	20-040-041	7 PISTON RUBBERS**
3†	3	99-607-325	"O" RING (1-1/2 X 1-7/8 X 3/16)†
4	3	20-150-123	PISTON ROD
5	3	20-150-003	PISTON NUT
6	3	07-329-400	4 SUPER DI-HARD LINER††
	3	07-329-450	4-1/2 SUPER DI-HARD LINER††
	3	07-329-500	5 SUPER DI-HARD LINER
	3	07-329-550	5-1/2 SUPER DI-HARD LINER
	3	07-329-575	5-3/4 SUPER DI-HARD LINER
	3	07-329-600	6 SUPER DI-HARD LINER
	3	07-329-650	6-1/2 SUPER DI-HARD LINER
	3	07-329-700	7 SUPER DI-HARD LINER
7	3	20-100-008	4 LINER GASKET
	3	20-100-008	4-1/2 LINER GASKET
	3	20-100-008	5 LINER GASKET
	3	20-100-009	5-1/2 LINER GASKET
	3	20-100-010	5-3/4 LINER GASKET
	3	20-100-011	6 LINER GASKET
	3	20-100-012	6-1/2 LINER GASKET
	3	20-100-017	7 LINER GASKET
8	3	10-305-110	LINER WEAR PLATE
9	3	20-100-014	LINER WEAR PLATE GASKET

* Piston body has 1-1/2" bore (fits 1-1/2" diameter rod).

** Piston rubbers are packaged in "pairs." A pair of piston rubbers consists of two each, piston rubbers, plates and snap rings. One pair of rubbers will dress two single acting pistons.

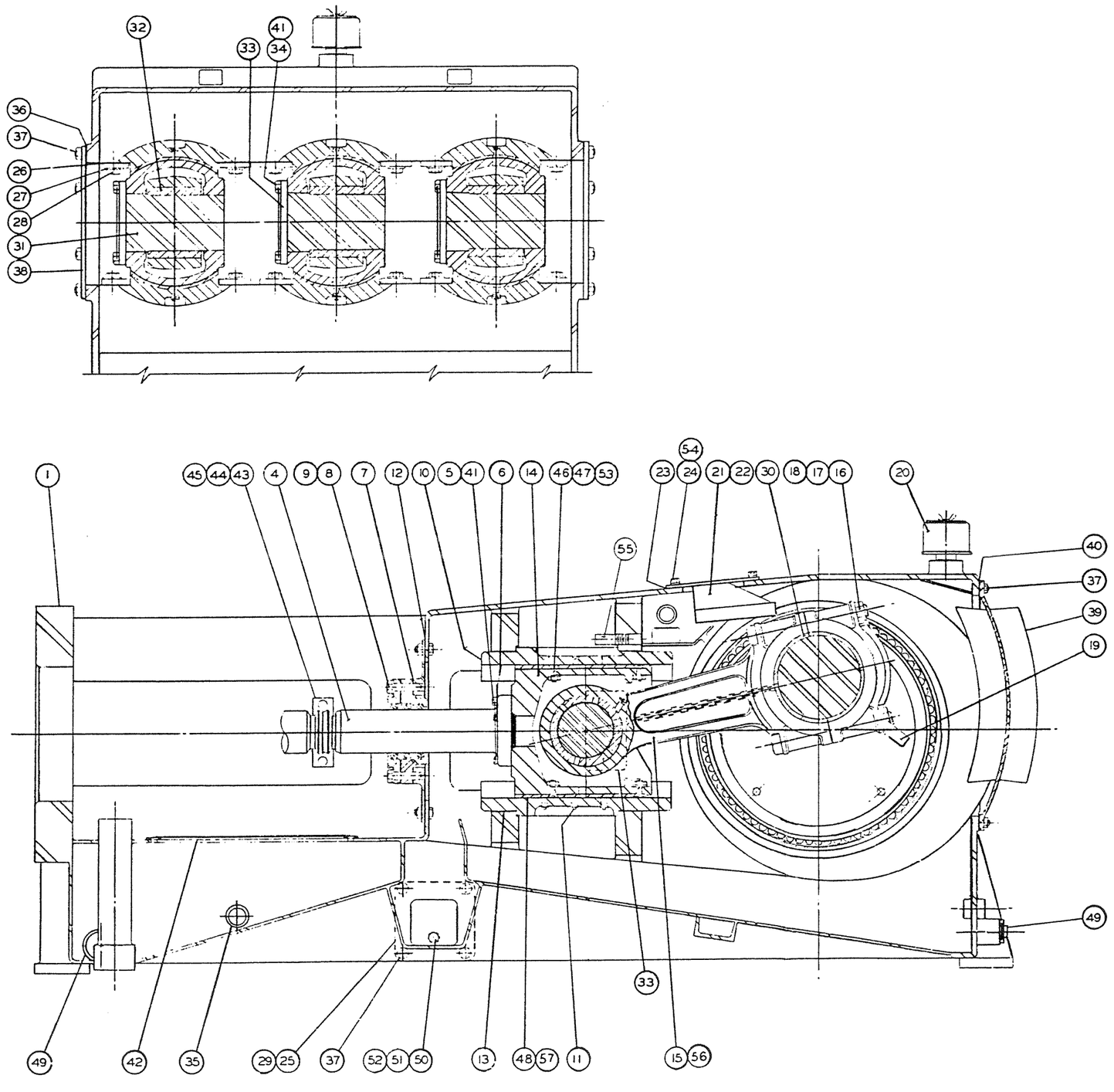
† O-rings are packaged six pieces per package identified as C/N 20-680-020.

†† Optional 4 and 4-1/2 thin wall liners

05-329-399 4 Super Di-Hard Liner (Thin Wall)
05-329-449 4-1/2 Super Di-Hard Liner (Thin Wall)
The thin wall liners require the following for installation
10-305-171 Liner Centering Sleeve
10-305-170 Spacer Ring
75-632-741 5/8 - 11 X 2-3/4 Sq. Head Dog Point Set Screw (Replaces 75-632-735).

LINER & PISTON ASSEMBLY
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		
COMMERCIAL		



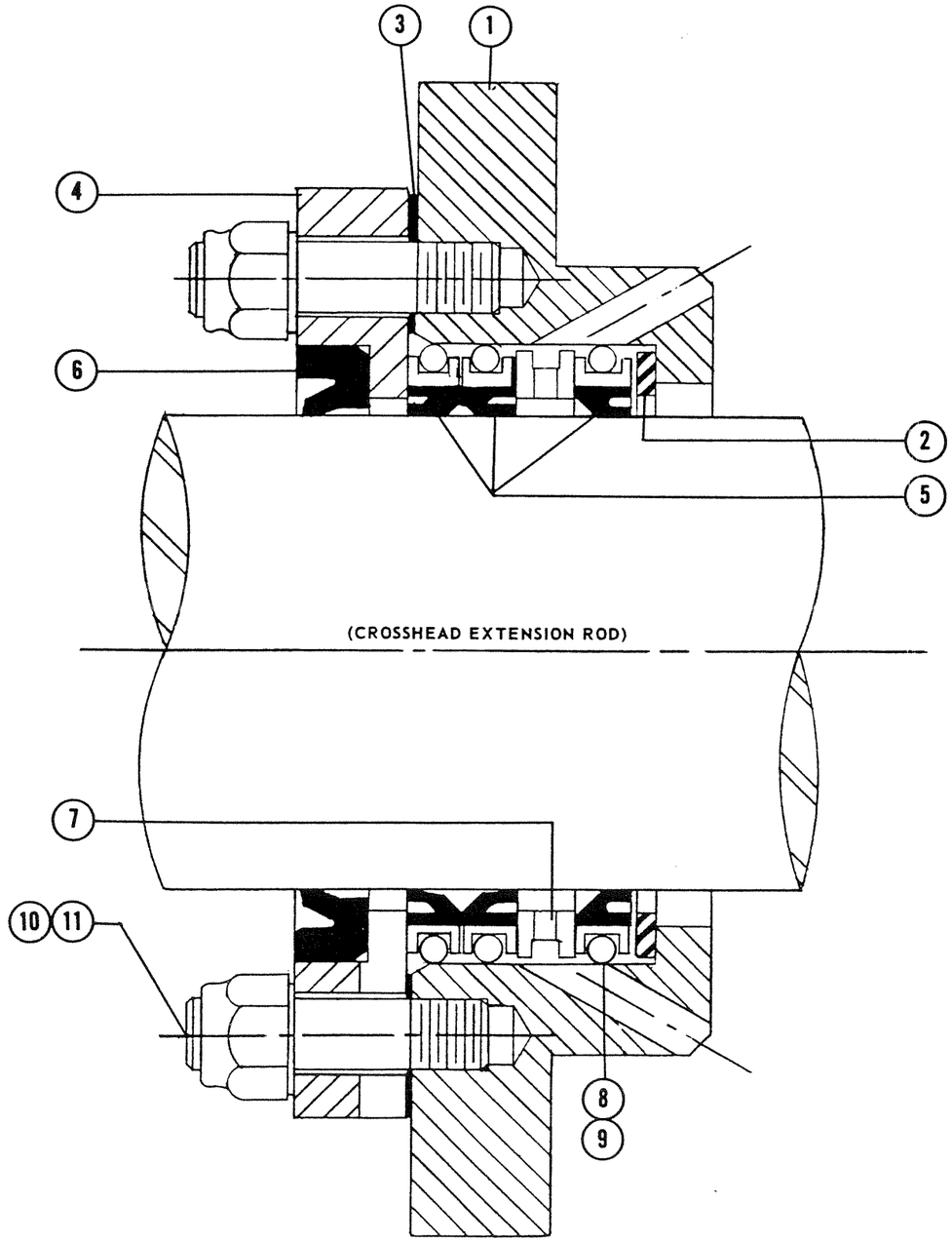
BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1*	1	10-305-001	FRAME END STUDDED*
2	–	–	–
3	–	–	–
4	3	16-484-101	CROSSHEAD EXTENSION ROD
5	18	45-143-007	1/2 - 13 X 1-3/4 DRLD. HD. CAPSCREW
6	3	16-341-001	CROSSHEAD EXTENSION BAFFLE
7	3	16-486-660	DIAPHRAGM GASKET
8	12	75-634-360	5/8 - 11 X 2-1/4 CAPSCREW
9	12	75-770-475	5/8 LOCK WASHER
10	6	10-305-034	CROSSHEAD GUIDE
11	9	86-486-102	1/4" STD. C.I. PIPE PLUG
12	3	10-305-010	DIAPHRAGM SUPPORT GASKET
13	12	10-305-071	CROSSHEAD GUIDE SHIM SET
14	3	16-335-004	CROSSHEAD
15	3	16-547-006	CONNECTING ROD W/ CAP (INCL. ITEMS 16, 17 & 56)
16	12	16-247-001	7/8 - 9 X 8-3/4 SQ. HD. BOLT
17	12	75-513-112	7/8 - 9 SLOTTED HVY. HEX NUT
18	12	75-103-008	5/32 X 2 COTTER PIN
19	3	10-305-015	OIL SLINGER
20	1	64-229-100	AIR BREATHER
21	1	10-305-022	OIL SCRAPER (FOR L.H. DRIVE PUMP)
	1	10-305-023	OIL SCRAPER (FOR R.H. DRIVE PUMP)
22	1	10-305-140	FRAME COVER
23	2	10-305-058	OIL SCRAPER GASKET
24	8	75-634-313	3/8 - 16 X 3/4 CAPSCREW
25	2	10-305-011	SLUDGE TRAP COVER
26	24	10-305-102	CROSSHEAD GUIDE CLAMP
27	24	75-770-100	SPHERICAL WASHER
28	24	34-012-005	5/8 - 11 X 1-3/4 DRLD. HD. CAPSCREW
29	2	10-305-054	SLUDGE TRAP COVER GASKET
30	3	16-347-002	CRANKPIN BEARING (2 HALVES)
31	3	16-139-000	CROSSHEAD PIN
32	3	16-484-020	CROSSHEAD PIN BUSHING
33	3	10-305-135	CROSSHEAD PIN RETAINING PLATE
34	6	45-143-802	5/8 - 11 X 1-1/4 CAPSCREW
35	1	86-485-108	1" STD. C.I. PIPE PLUG
36	2	45-803-856	SIDE PLATE GASKET
37	46	75-510-308	1/2 - 13 HVY. HEX NUT
38	2	10-305-125	SIDE PLATE
39	1	10-305-106	FRAME END PLATE
40	1	45-803-857	FRAME END PLATE GASKET
41	6 FT.	59-800-016	No. 16 GAUGE LOCKING WIRE
42	1	10-305-028	FLUSHING SUMP COVER
43	3	16-484-114	EXTENTION ROD CLAMP COMPLETE (INCL. ITEMS 44 & 45)
44	6	75-074-694	5/8 - 11 X 6 HEX HD. BOLT
45	6	75-509-013	5/8 - 11 ELASTIC STOP NUT
46	12	75-633-195	1/2 - 13 X 1-1/4 F.H. MACHINE SCREW
47	12	75-510-506	1/2 - 13 HEX JAM NUT
48	6	16-483-629	CROSSHEAD SHOE
49	3	86-485-112	1-1/2" STD. C.I. PIPE PLUG
50	1	86-485-104	1/2" STD. C.I. PIPE PLUG
51	1	86-424-001	1/2" X CLOSE STD. B.P. NIPPLE
52	1	78-101-132	1/2" BRASS STOP COCK
53	12	75-770-474	1/2 LOCK WASHER
54	8	75-770-203	3/8 PLATE WASHER
55	3	86-424-403	1/2" X 1-1/2" STD. B.P. NIPPLE (THREAD ONE END)
56	6	75-555-770	1/2 X 2 DOWEL PIN
57	6 SETS	16-483-825	CROSSHEAD SHOE SHIMS (APPROX. 1/32" THICK)

*Includes 46 Pcs. 1/2 - 13 X 1 Welded Studs & Hex Nuts

POWER END
350-PT TRIPLEX PISTON PUMP

TECH.		P190 - AW1	D

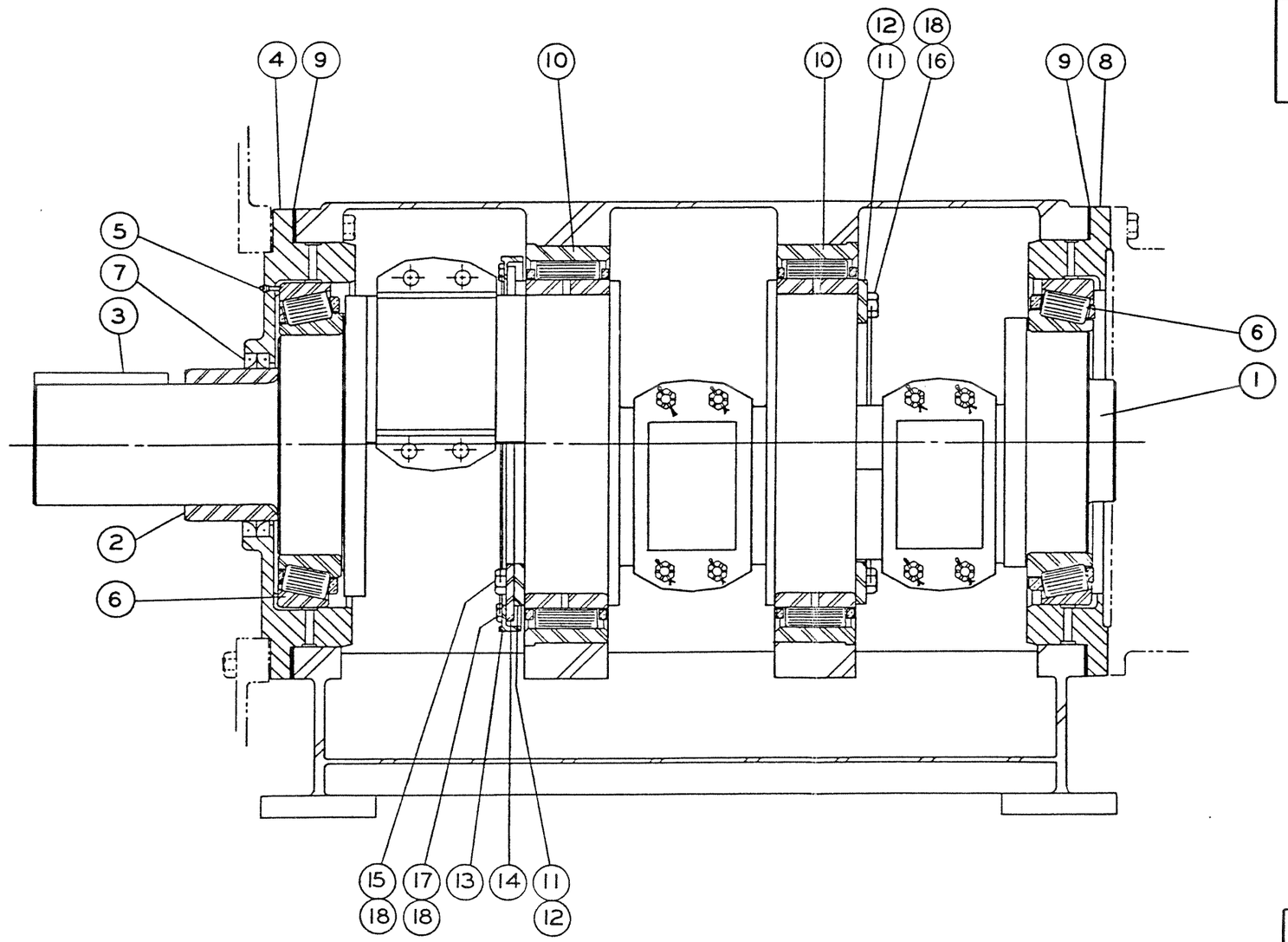


BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	3	16-566-005	DIAPHRAGM HOUSING (INCLUDES ITEMS 10 AND 11)
2	3	16-566-010	DIAPHRAGM WASHER
3	6	16-566-008	SHIM SET (EACH SET 1/32 THICK)
4	3	16-566-009	DIAPHRAGM GLAND
5	9	16-566-013	WIPER RING
6	3	16-566-002	WIPER RING
7	3	16-566-012	LANTERN RING
8	9	16-566-011	"O" RING RETAINER
9	9	99-607-344	"O" RING (3-7/8 X 4-1/4 X 3/16)
10	12	49-002-925	1/2 - 13 X 2 STUD
11	12	75-509-994	1/2 - 13 LOCKNUT

DIAPHRAGM ASSEMBLY
350-PT TRIPLEX PISTON PUMP

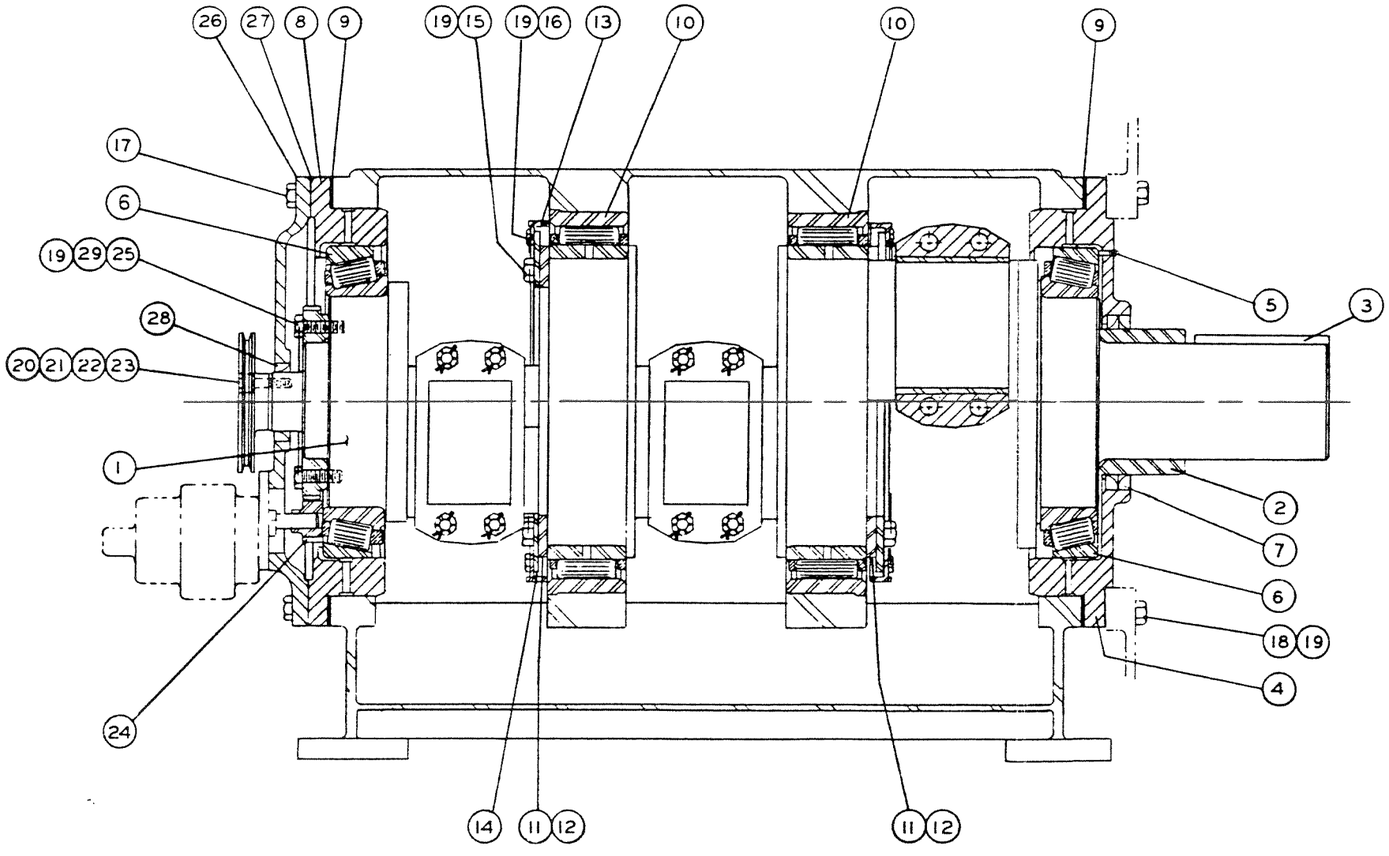
TECHNICAL	P124-AA1	T S - 7 8	B
COMMERCIAL			



BILL OF MATERIAL			
ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	1	10-305-035	CRANKSHAFT
2	1	10-305-043	WEAR SLEEVE
3	1	34-134-052	1 X 1 X 5-1/4 KEY
4	1	10-305-134	MAIN BEARING HOUSING (GEAR SIDE)
5	4	86-486-102	1/4" STD. C.I. PIPE PLUG
6	2	65-725-955	MAIN BEARING
7	2	68-630-925	OIL SEAL
8	1	10-305-052	MAIN BEARING HOUSING (OIL PUMP SIDE)
9	2	10-305-073	MAIN BEARING HOUSING SHIM SET
10	2	65-101-980	INTERMEDIATE BEARING
11	2	10-242-005	INTERMEDIATE BEARING RETAINER
12	2	10-242-006	INTERMEDIATE BEARING RETAINER SHIM
13	1	10-305-030	LUBRICATION RING
14	1	10-305-095	LUBRICATION RING RETAINER
15	5	45-142-703	3/4 - 10 X 1-3/4 DRLD. HD. CAPSCREW
16	5	21-032-041	3/4 - 10 X 1-1/4 DRLD. HD. CAPSCREW
17	8	45-143-100	3/8 - 16 X 1/2 DRLD. HD. CAPSCREW
18	10 FT.	59-800-016	No. 16 GAUGE LOCKING WIRE

CRANKSHAFT ASSEMBLY
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		P190 - AX1	C
COMMERCIAL			

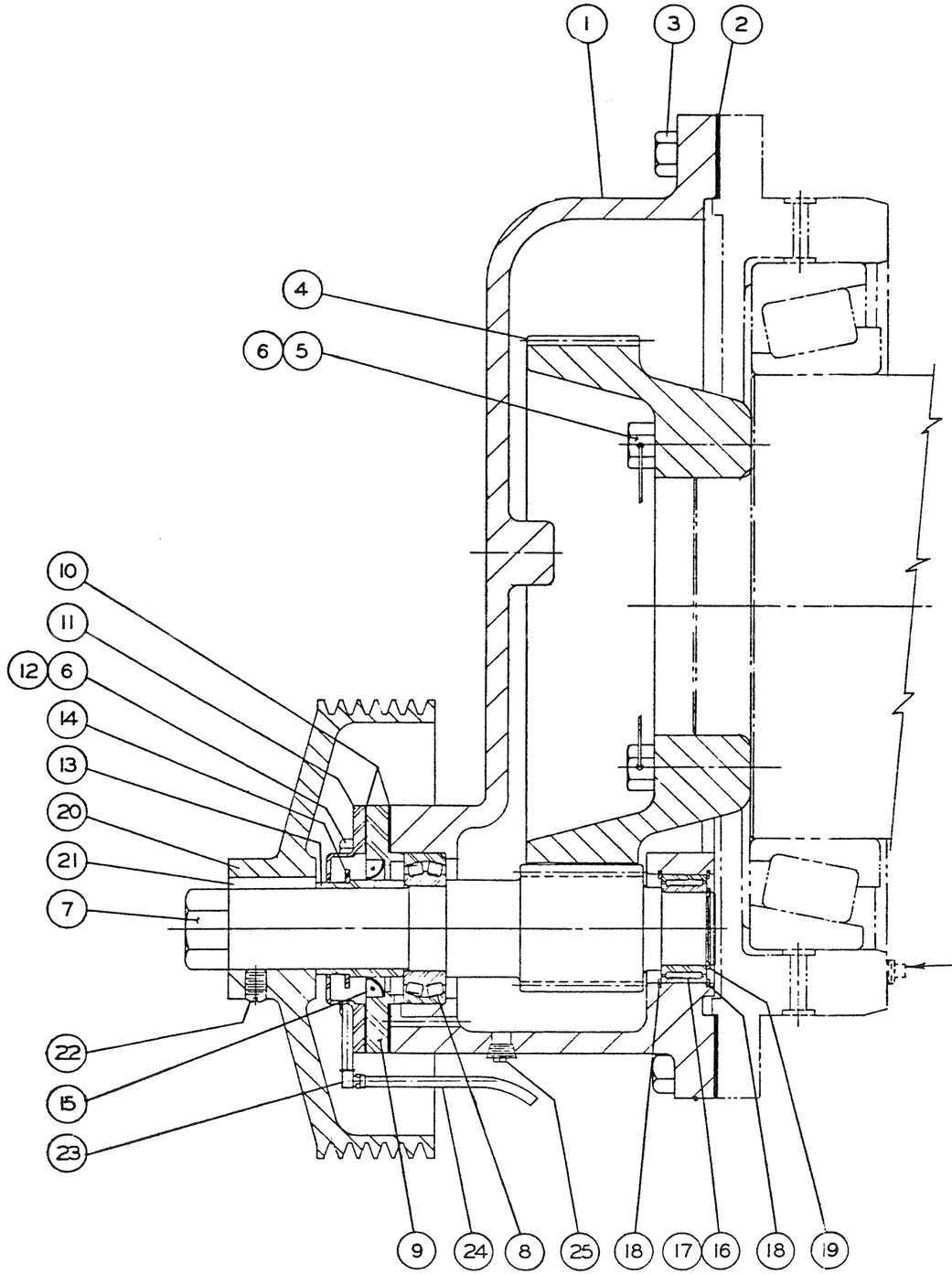


BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	1	10-305-035	CRANKSHAFT
2	1	10-305-043	WEAR SLEEVE
3	1	34-134-052	1 X 1 X 5-1/4 KEY
4	1	10-305-006	MAIN BEARING HOUSING (DRIVE SIDE)
5	4	86-486-102	1/4" STD. C.I. PIPE PLUG
6	2	65-725-955	MAIN BEARING
7	2	68-630-925	OIL SEAL
8	1	10-305-052	MAIN BEARING HOUSING (OIL PUMP SIZE)
9	2	10-305-073	MAIN BEARING HOUSING SHIM SET
10	2	65-101-980	INTERMEDIATE BEARING
11	2	10-242-005	INTERMEDIATE BEARING RETAINER
12	2	10-242-006	INTERMEDIATE BEARING RETAINER SHIM
13	2	10-305-030	LUBRICATION RING
14	2	10-305-095	LUBRICATION RING RETAINER
15	10	45-142-703	3/4 - 10 X 1-3/4 DRLD. HD. CAPSCREW
16	16	45-143-100	3/8 - 16 X 1/2 DRLD. HD. CAPSCREW
17	16	75-634-385	3/4 - 10 X 2-3/4 CAPSCREW
18	16	45-142-702	3/4 - 10 X 3-1/2 DRLD. HD. CAPSCREW
19	10 FT.	59-800-016	No. 16 GAUGE LOCKWIRE
20	1	16-785-003	LUBRICATOR DRIVE SHEAVE (7 PD.)
21	1	16-785-004	LUBRICATOR DRIVE SHEAVE GASKET
22	3	75-635-598	3/8 - 16 X 1-3/4 SKT. HD. CAPSCREW
23	3	75-770-472	3/8 SHAKEPROOF LOCKWASHER
24	1	16-376-000	OIL PUMP DRIVE PINION (22T)
25	1	16-375-000	OIL PUMP DRIVE GEAR (99T)
26	1	16-760-002	MAIN BEARING HOUSING COVER
27	1	45-803-854	MAIN BEARING HOUSING GASKET
28	1	68-630-375	OIL SEAL
29	1	45-143-503	5/8 - 11 X 2 DRLD. HD. CAPSCREW

CRANKSHAFT W/ GEAR DRIVEN OIL PUMP
350-PT TRIPLEX PISTON PUMP

TECHNICAL		P200 - AC1	C
COMMERCIAL			



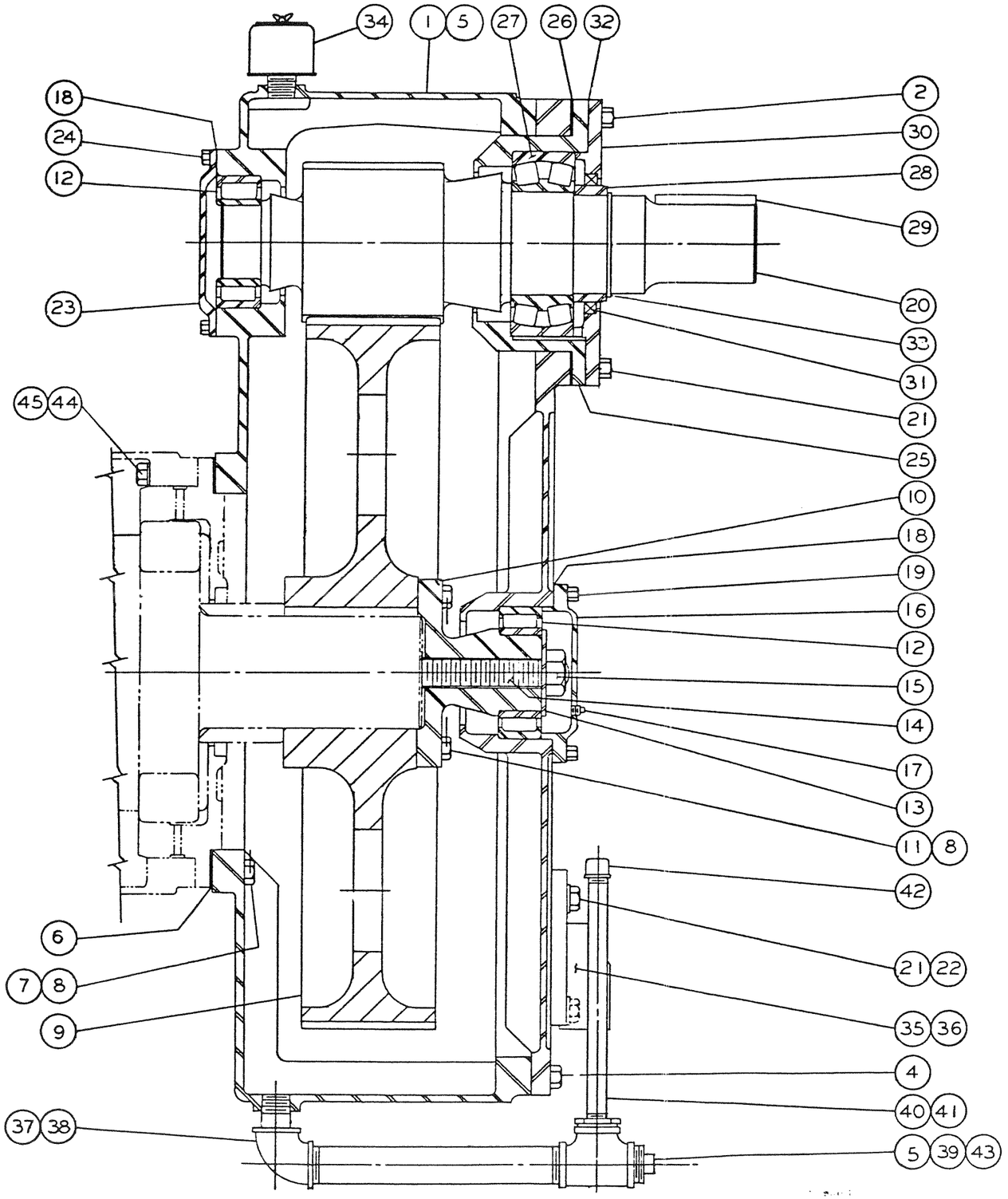
NOTE: REMOVE THESE TWO 1/4" PIPE PLUGS WHEN INSTALLING COUNTERSHAFT ASSEMBLY.

BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	1	10-305-053	COUNTERSHAFT GEAR CASE
2	1	45-803-854	GEAR CASE GASKET
3	16	75-634-385	3/4 - 10 X 2-3/4 CAPSCREW
4	1	10-305-060	SPUR GEAR (122 TEETH)
5	6	45-803-868	5/8 - 11 X 3 DRLD. HEAD CAPSCREW
6	2 FT.	59-800-016	No. 16 GAUGE LOCKING WIRE
7	1	10-305-059	COUNTERSHAFT W/ PINION (27 TEETH)
8	1	65-725-031	SPHERICAL ROLLER BEARING COMPLETE
9	1	10-300-032	BEARING RETAINER
10	2	45-803-797	BEARING RETAINER GASKET
11	1	10-300-098	OIL CATCHER
12	4	45-143-003	1/2 - 13 X 1-1/4 DRLD. HEAD CAPSCREW
13	1	10-300-034	COUNTERSHAFT BEARING SPACER
14	1	10-300-099	OIL SLINGER
15	1	68-630-235	OIL SEAL
16	1	65-725-751	BEARING OUTER RACE & ROLLER ASSEMBLY
17	1	65-725-785	BEARING INNER RACE
18	2	75-660-038	OUTER RETAINING RING
19	1	75-660-135	INNER RETAINING RING
20	1	10-305-062	10.6" O.D. 3-V 6-GROOVE DRIVE SHEAVE
21	1	45-802-800	1/2 X 1/2 X 2 KEY
22	1	75-634-105	1/2 - 13 X 3/4 SKT. HEAD CUP POINT SETSCREW
23	1	64-227-072	1/4" C.T. X 1/8" F.P.T. ELBOW CONNECTOR
24	6 IN.	64-699-084	1/4 O.D. COPPER TUBING (.030 WALL)
25	1	86-486-102	1/4" STD. C.I. PIPE PLUG

COUNTERSHAFT ASSEMBLY
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		P190 - AD1	C
COMMERCIAL			



BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	1	10-305-005	GEAR CASE - STUDDED (INCLUDES ITEMS 2 THRU 5)
2	6	75-634-393	3/4 - 10 X 4-1/2 CAPSCREW
3	–	–	–
4	14	75-634-379	3/4 - 10 X 1-3/4 CAPSCREW
5	7	86-486-412	1-1/2" STD. C.I. PIPE PLUG
6	1	10-305-136	GEAR CASE GASKET
7	16	21-032-031	3/4 - 10 X 2-1/2 DRLD. HD. CAPSCREW
8	3 FT.	59-800-016	No. 16 GAUGE LOCKING WIRE
9	1	10-305-118	CRANKSHAFT GEAR (221 TEETH)
10	1	10-305-025	CRANKSHAFT EXTENSION
11	8	21-032-042	3/4 - 10 X 2 DRLD. HD. CAPSCREW
12	2	65-725-730	ROLLER BEARING COMPLETE
13	1	10-305-009	BEARING RETAINER
14	1	45-810-044	1-1/2 - 6 X 9 STUD
15	1	75-514-026	1-1/2 - 6 FLEXLOC NUT
16	1	10-305-019	BEARING COVER
17	1	86-486-402	1/4" STD. C.I. PIPE PLUG
18	2	45-803-853	BEARING COVER GASKET
19	6	75-634-351	1/2 - 13 X 1-1/4 CAPSCREW
20	1	10-305-117	PINION W/ INTEGRAL SHAFT (48 TEETH)
21	6	75-634-384	3/4 - 10 X 2-1/2 CAPSCREW
22*	4	75-770-206	3/4 LOCK WASHER*
23	1	10-305-008	BEARING COVER
24	6	75-634-349	1/2 - 13 X 1 CAPSCREW
25	1	10-305-120	BEARING HOUSING
26	1	45-803-991	BEARING HOUSING SHIM SET
27	1	65-724-102	SPHERICAL ROLLER BEARING COMPLETE
28	1	10-305-121	PINION SHAFT SLEEVE
29	1	45-803-867	1 X 1 X 5-1/4 KEY
30	1	10-305-119	BEARING RETAINER
31	1	68-630-825	OIL SEAL
32	1	10-305-122	BEARING RETAINER GASKET
33	1	75-660-208	SNAP RING
34	1	64-229-100	AIR BREATHER
35*	1	10-305-088	GEAR REDUCER SUPPORT (R.H.)*
36*	1	10-305-089	GEAR REDUCER SUPPORT (L.H.)*
37	1	86-428-005	1-1/2" X 2" STD. B.P. NIPPLE
38	1	86-336-112	1-1/2" STD. B.M. ELL
39	1	86-543-112	1-1/2" STD. B.M. TEE
40	1	86-061-025	1-1/2" X 1/2" STD. C.I. BUSHING
41	1	–	1/2" X 14-3/8" STD. B.P. NIPPLE
42	1	06-009-375	OIL LEVEL DIP STICK
43	1	–	1-1/2" X 13-3/4" STD. B.P. NIPPLE
44	8	75-634-394	3/4 - 10 X 4 CAPSCREW
45	8	75-770-476	3/4 LOCK WASHER

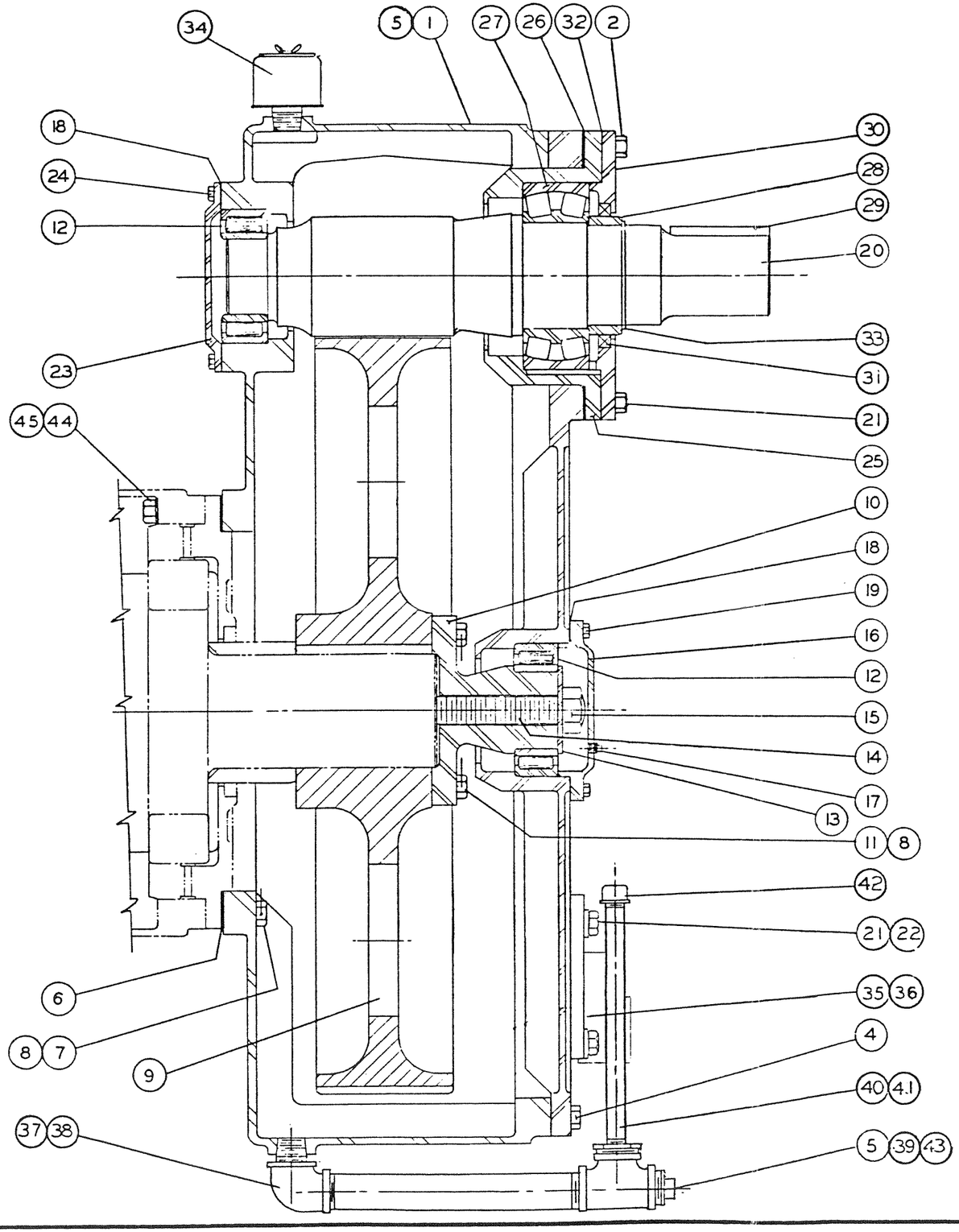
* OPTIONAL

GEAR REDUCTION RATIO

4.604:1

GEAR REDUCTION UNIT
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		P190 - AT1	C
COMMERCIAL			



BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	1	10-305-005	GEAR CASE - STUDDED (INCLUDES ITEMS 4 & 5)
2	6	75-634-393	3/4 - 10 X 4-1/2 CAPSCREW
3	–	–	–
4	14	75-634-379	3/4 - 10 X 1-3/4 CAPSCREW
5	7	86-486-412	1-1 2" STD. C.I. PIPE PLUG
6	1	10-305-136	GEAR CASE GASKET
7	16	21-032-031	3/4 - 10 X 2-1/2 DRLD. HD CAPSCREW
8	3 FT.	59-800-016	No. 16 GAUGE LOCKING WIRE
9	1	10-305-032	CRANKSHAFT GEAR (240 TEETH)
10	1	10-305-025	CRANKSHAFT EXTENSION
11	8	21-032-042	3/4 - 10 X 2 DRLD. HD. CAPSCREW
12	2	65-725-730	ROLLER BEARING COMPLETE
13	1	10-305-009	BEARING RETAINER
14	1	45-810-044	1-1/2 - 6 X 9 STUD
15	1	75-514-026	1-1/2 - 6 FLEXLOC NUT
16	1	10-305-019	BEARING COVER
17	1	86-486-402	1/4" STD. C.I. PIPE PLUG
18	2	45-803-853	BEARING COVER GASKET
19	6	75-634-351	1/2 - 13 X 1-1/4 CAPSCREW
20	1	10-305-116	PINION W/ INTERGAL SHAFT (35 TEETH)
21	6	75-634-384	3/4 - 10 X 2-1/2 CAPSCREW
22*	4	75-770-206	3/4 LOCK WASHER*
23	1	10-305-008	BEARING COVER
24	6	75-634-349	1/2 - 13 X 1 CAPSCREW
25	1	10-305-120	BEARING HOUSING
26	1	45-803-991	BEARING HOUSING SHIM SET
27	1	65-724-102	SPHERICAL ROLLER BEARING COMPLETE
28	1	10-305-121	PINION SHAFT SLEEVE
29	1	45-803-867	1 X 1 X 5-1/4 KEY
30	1	10-305-119	BEARING RETAINER
31	1	68-630-825	OIL SEAL
32	1	10-305-122	BEARING RETAINER GASKET
33	1	75-660-208	SNAP RING
34	1	64-229-100	AIR BREATHER
35*	1	10-305-088	GEAR REDUCER SUPPORT (R.H.)*
36*	1	10-305-089	GEAR REDUCER SUPPORT (L.H.)*
37	1	86-428-005	1-1/2" X 2" STD. B.P. NIPPLE
38	1	86-336-112	1-1/2" STD. B.M. ELL
39	1	86-543-112	1-1/2" STD. B.M. TEE
40	1	86-061-025	1-1/2" X 1/2" STD. C.I. BUSHING
41	1	–	1/2" X 14-3/8" STD. B.P. NIPPLE
42	1	06-009-375	OIL LEVEL DIP STICK
43	1	–	1-1/2" X 13-3/4" STD. B.P. NIPPLE
44	8	75-634-394	3/4 - 10 X 4 CAPSCREW
45	8	75-770-476	3/4 LOCK WASHER

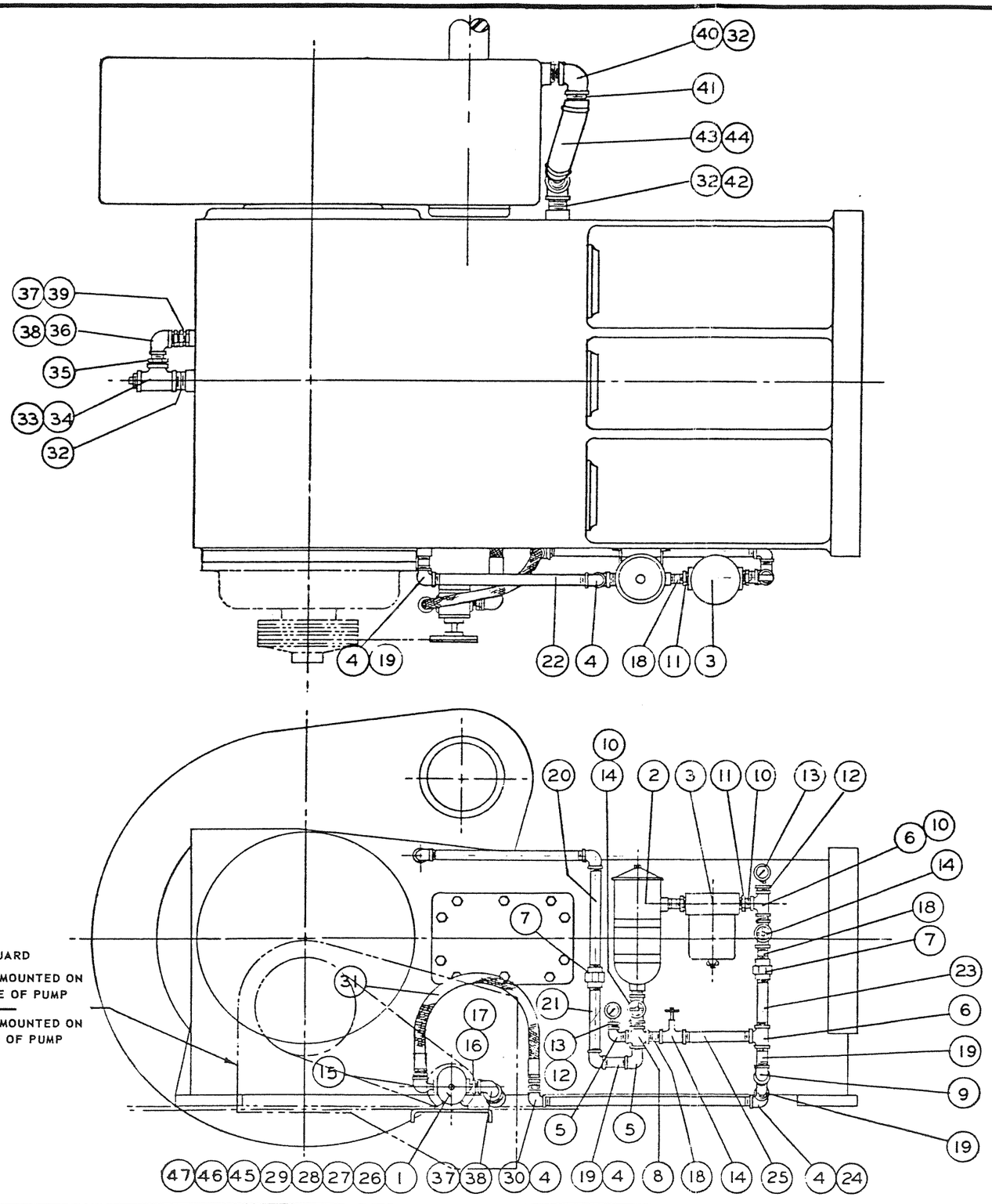
* OPTIONAL

GEAR REDUCTION RATIO

6.857:1

GEAR REDUCTION UNIT
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		P190 - AV1	C
COMMERCIAL			



BELT GUARD

10-305-050 WHEN MOUNTED ON RIGHT HAND SIDE OF PUMP

10-305-051 WHEN MOUNTED ON LEFT HAND SIDE OF PUMP

BILL OF MATERIAL

ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	1	64-182-007	B & S MODEL 2 OIL PUMP
2	1	64-212-088	OIL FILTER W/ CARTRIDGE (FRAM FH-33-PLOE OR EQUAL)
	1	64-212-140	FILTER CARTRIDGE ONLY (FRAM CH-33-APL OR EQUAL)
3*	1	64-212-003	MODEL PQ-3 MAGNETIC OIL FILTER*
4	5	86-336-106	3/4" STD. B.M. ELL
5	2	86-342-106	3/4" STD. B.M. STREET ELL
6	2	86-543-106	3/4" STD. B.M. TEE
7	2	86-641-106	3/4" STD. B.M. UNION
8	1	86-240-106	3/4" STD. B.M. CROSS
9	1	86-339-106	3/4" 45° STD. B.M. ELL
10	4	86-425-001	3/4" X CLOSE STD. B.P. NIPPLE
11	2	86-061-015	1" X 3/4" STD. C.I. BUSHING
12	2	86-061-008	3/4" X 1/4" STD. C.I. BUSHING
13	2	47-005-150	OIL PRESSURE SWITCH GAUGE
14	3	83-899-802	3/4" BALL VALVE
15	1	86-342-212	3/4" X 1/2" STD. B.M. REDUCING STREET ELL
16	1	86-061-014	1" X 1/2" STD. C.I. BUSHING
17	1	86-424-001	1/2" X CLOSE STD. B.P. NIPPLE
18	3	86-425-005	3/4" X 2" STD. B.P. NIPPLE
19	4	86-425-009	3/4" X 3" STD. B.P. NIPPLE
20	1	86-425-033	3/4" X 12" STD. B.P. NIPPLE
21	1	45-804-246	3/4" X 7-1/2" STD. B.P. NIPPLE
22	1	45-001-626	3/4" X 17" STD. B.P. NIPPLE
23	1	86-425-022	3/4" X 6-1/2" STD. B.P. NIPPLE
24	1	–	3/4" X 21-1/4" STD. B.P. NIPPLE
25	1	86-425-023	3/4" X 7" STD. B.P. NIPPLE
26	1	10-305-092	OIL PUMP MOUNTING PLATE
27	4	75-634-340	3/8 - 16 X 1-1/4 CAPSCREW
28	4	75-770-472	3/8 LOCK WASHER
29	4	75-510-404	3/8 - 16 HEX NUT
30	1	64-271-212	3/4" M.P.T. HOSE ADAPTER
31	1	45-804-072	3/4" X 37" HOSE ASSEMBLY
32	3	86-428-001	1-1/2" X CLOSE STD. B.P. NIPPLE
33	1	86-543-112	1-1/2" STD. B.M. TEE
34	1	86-486-112	1-1/2" STD. C.I. PIPE PLUG
35	1	86-061-027	1-1/2" X 1" STD. C.I. BUSHING
36	1	86-426-201	1" X CLOSE STD. B.P. NIPPLE
37	2	64-271-234	1" M.P.T. HOSE ADAPTER
38	2	86-336-108	1" STD. B.M. ELL
39	1	45-804-071	1" X 57" HOSE ASSEMBLY
40	1	86-336-112	1-1/2" STD. B.M. ELL
41	2	45-003-181	1-1/2" X 3" STD. B.P. NIPPLE
42	1	86-339-112	1-1/2" 45° STD. B.M. ELL
43	1	96-101-820	1-7/8" I.D. X 3 FT. RADIATOR HOSE
44	2	99-093-080	1-7/8" HOSE CLAMP
45	1	68-097-455	5" O.D. 3-V 1-GROOVE V-BELT SHEAVE
46	1	68-028-600	3V600 V-BELT
47	1	45-803-774	3/16 X 3/16 X 1-3/4 KEY

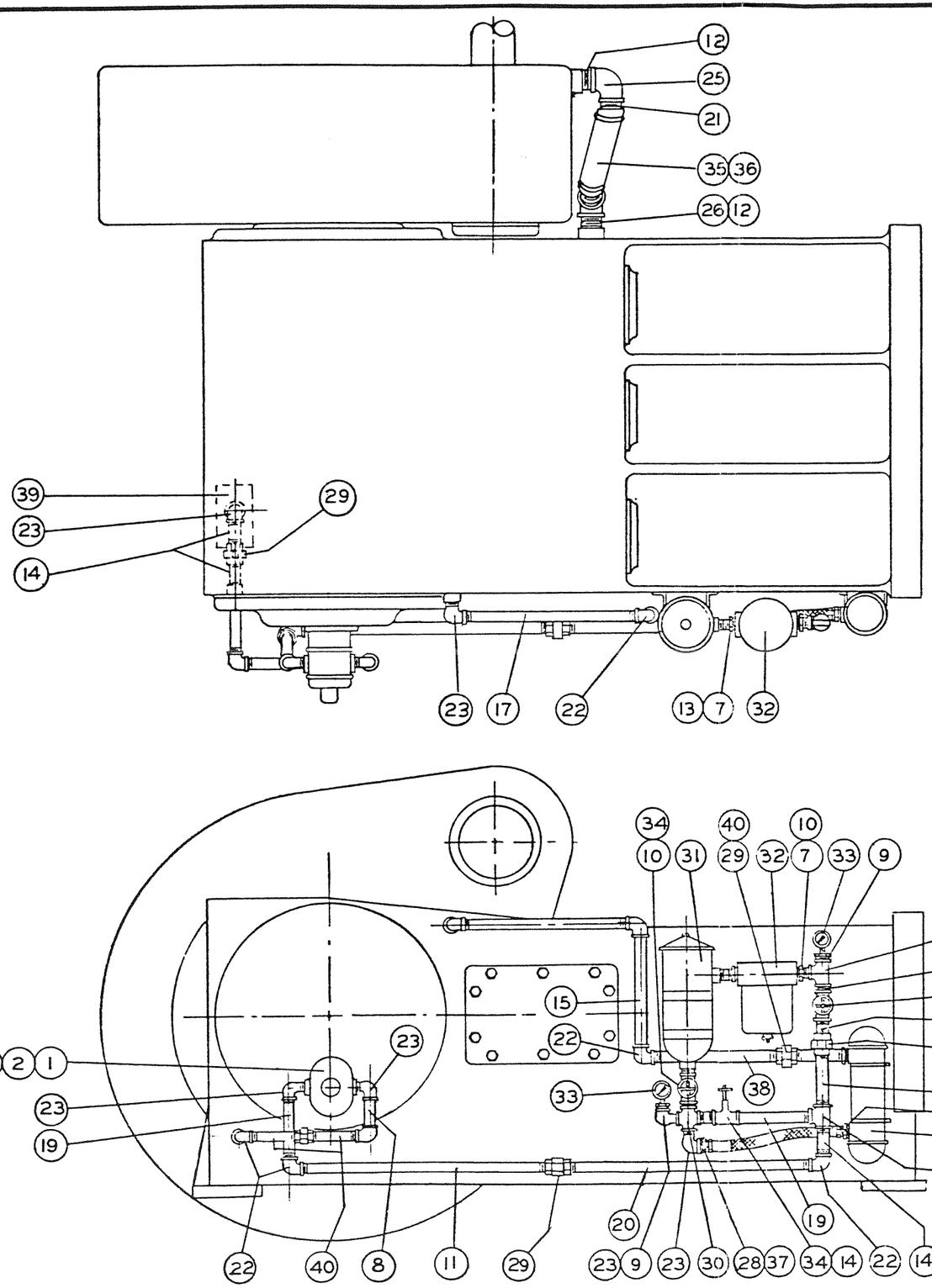
*Uses 99-607-234 "O" Ring (3 X 3-1/4 X 1/8)

NOTE

THIS LUBRICATION SYSTEM, WITH BELT DRIVEN LUBRICATION PUMP, IS DESIGNED TO BE INSTALLED ON THE MANUFACTURER'S STANDARD STRUCTURAL STEEL BASE.

EXTERNAL LUBRICATION SYSTEM
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		P190 - AH1	C
COMMERCIAL			



BILL OF MATERIAL			
ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1*	1	16-496-050	B & S MODEL No. 3 OIL PUMP*
2	1	16-496-060	OIL PUMP GASKET
3	1	45-127-501	1/4 X 3/4 DOWEL
4	4	75-634-314	3/8 X 1 CAPSCREW
5	4	75-770-472	3/8 LOCK WASHER
6**	1	64-160-310	HEAT EXCHANGER**
7	4	86-061-015	1" X 3/4" STD. C.I. BUSHING
8	1	86-425-011	3/4" X 3-1/2" STD. B.P. NIPPLE
9	2	86-061-008	3/4" X 1/4" STD. C.I. BUSHING
10	4	86-425-001	3/4" X CLOSE STD. B.P. NIPPLE
11	1	–	3/4" X 27" STD. B.P. NIPPLE
12	2	86-428-001	1-1/2" X CLOSE STD. B.P. NIPPLE
13	3	86-425-005	3/4" X 2" STD. B.P. NIPPLE
14	4	86-425-009	3/4" X 3" STD. B.P. NIPPLE
15	1	86-425-033	3/4" X 12" STD. B.P. NIPPLE
16	1	–	3/4" X 7-1/2" STD. B.P. NIPPLE
17	1	45-001-626	3/4" X 17" STD. B.P. NIPPLE
18	1	86-425-022	3/4" X 6-1/2" STD. B.P. NIPPLE
19	2	86-425-023	3/4" X 7" STD. B.P. NIPPLE
20	1	–	3/4" X 21-1/4" STD. B.P. NIPPLE
21	2	45-003-181	1-1/2" X 3" STD. B.P. NIPPLE (THD. ONE END)
22	6	86-336-106	3/4" STD. B.M. ELL
23	6	86-342-106	3/4" STD. B.M. STREET ELL
24	1	86-339-106	3/4" 45° STD. B.M. ELL
25	1	86-336-112	1-1/2" STD. B.M. ELL
26	1	86-339-112	1-1/2" 45° STD. B.M. ELL
27	2	86-543-106	3/4" STD. B.M. TEE
28	1	45-804-073	3/4" X 15" HOSE W/ 3/4" MPT & JIC FEM. CONNECTIONS
29	4	86-641-106	3/4" STD. B.M. UNION
30	1	86-240-106	3/4" STD. B.M. CROSS
31	1	64-212-088	OIL FILTER W/ CARTRIDGE (FRAM FH-33-PLOE OR EQUAL)
–	1	64-212-140	FILTER CARTRIDGE ONLY (FRAM CH-33-APL OR EQUAL)
32***	1	64-212-003	MODEL PQ-3 MAGNETIC OIL FILTER***
33	2	47-005-150	2" 0-75# OIL PRESSURE SWITCH GAUGE
34	3	83-899-802	3/4" BALL VALVE
35	1	96-101-820	1-7/8" I.D. X 3 FT. RADIATOR HOSE
36	2	99-093-080	1-7/8" HOSE CLAMP
37	1	64-271-212	3/4" MPT X 3/4" JIC 37° HOSE ADAPTER
38	1	86-425-029	3/4" X 10" STD. B.P. NIPPLE
39	1	06-015-450	OIL STRAINER
40	2	86-425-017	3/4" X 5" STD. B.P. NIPPLE

*No. 3 B & S FLANGE MOUNTED PUMP W/ RELIEF VALVE
**OPTIONAL
***USES 99-607-234 "O" RING (3 X 3-1/4 X 1/8)

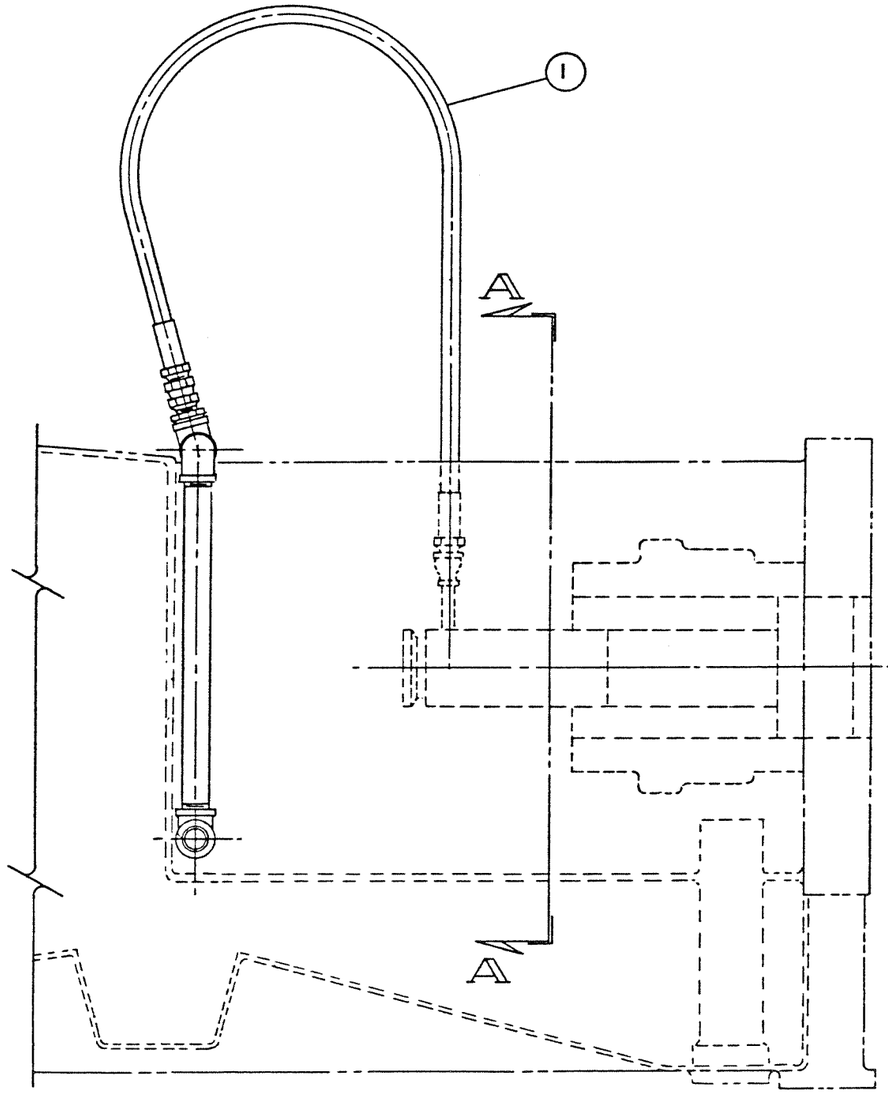
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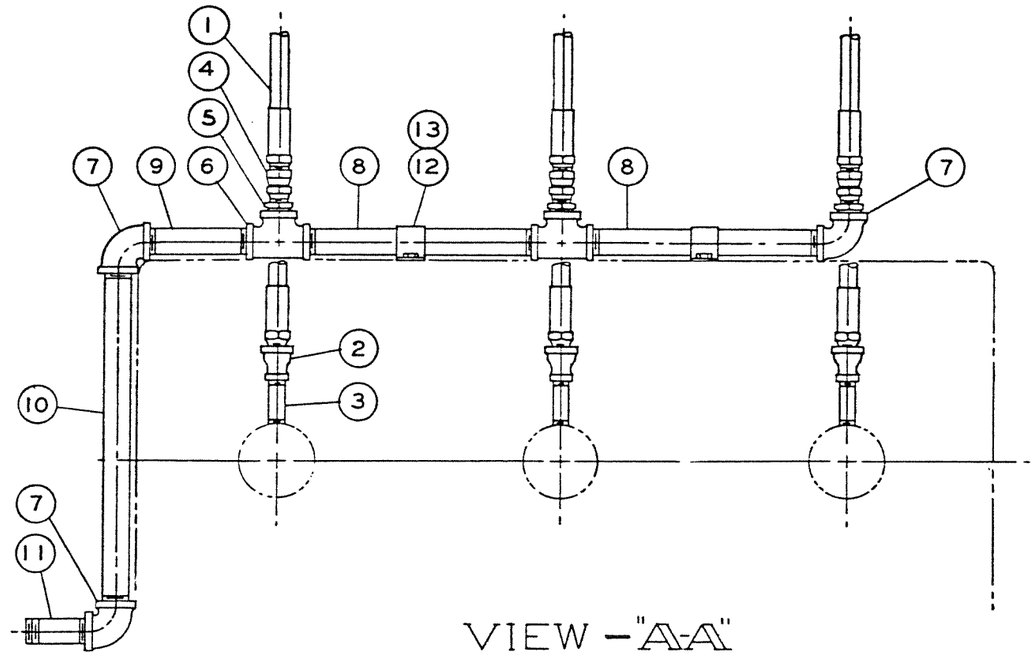
THIS OPTIONAL LUBRICATION SYSTEM, WITH GEAR DRIVEN LUBRICATION PUMP AND HEAT EXCHANGER, IS PROVIDED WHEN SPECIFICALLY REQUESTED.

EXTERNAL LUBRICATION SYSTEM (OPTIONAL)
350-PT TRIPLEX PISTON PUMP

ENGR. REF.		P200 - AB1	C
COMMERCIAL			

BILL OF MATERIAL			
ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1	3	45-171-810	1/2" X 46" HOSE ASSEMBLY
2	3	86-600-005	1/2" X 1/4" STD. B.M. REDUCER
3	3	86-422-007	1/4" X 2-1/2" STD. B.P. NIPPLE
4	3	64-289-320	1/2" M & F ADAPTER UNION
5	3	86-061-010	3/4" X 1/2" STD. C.I. BUSHING
6	2	86-543-106	3/4" STD. B.M. TEE
7	3	86-336-106	3/4" STD. B.M. ELL
8	2	86-425-029	3/4" X 10" STD. B.P. NIPPLE
9	1	86-425-017	3/4" X 5" STD. B.P. NIPPLE
10	1	45-001-618	3/4" X 15" STD. B.P. NIPPLE
11	1	86-425-009	3/4" X 3" STD. B.P. NIPPLE
12	2	64-228-210	3/4" PIPE CLAMP
13	2	75-634-301	1/4 - 20 X 1/2 CAPSCREW

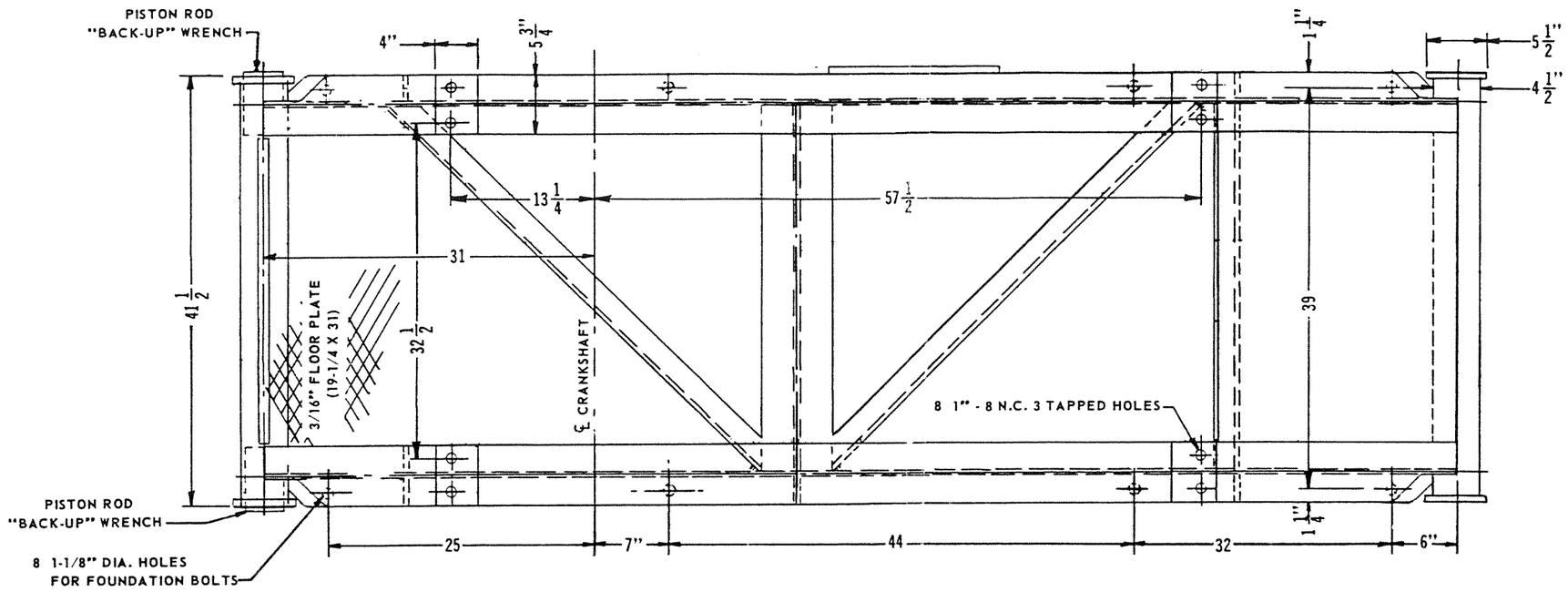


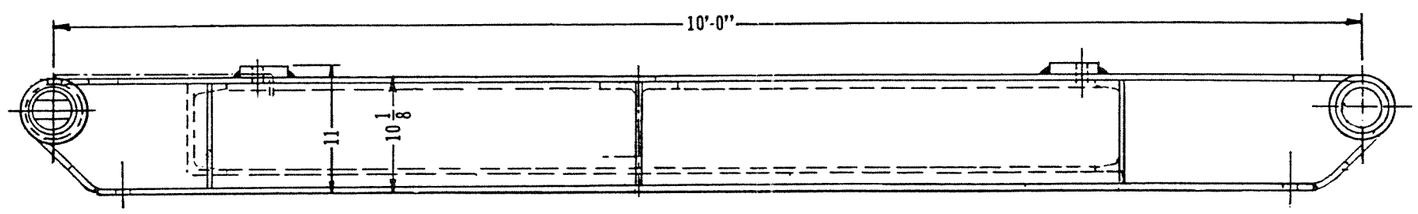


VIEW - "A-A"

LINER FLUSHING PIPING ASSEMBLY
350-PT TRIPLEX PISTON PUMP

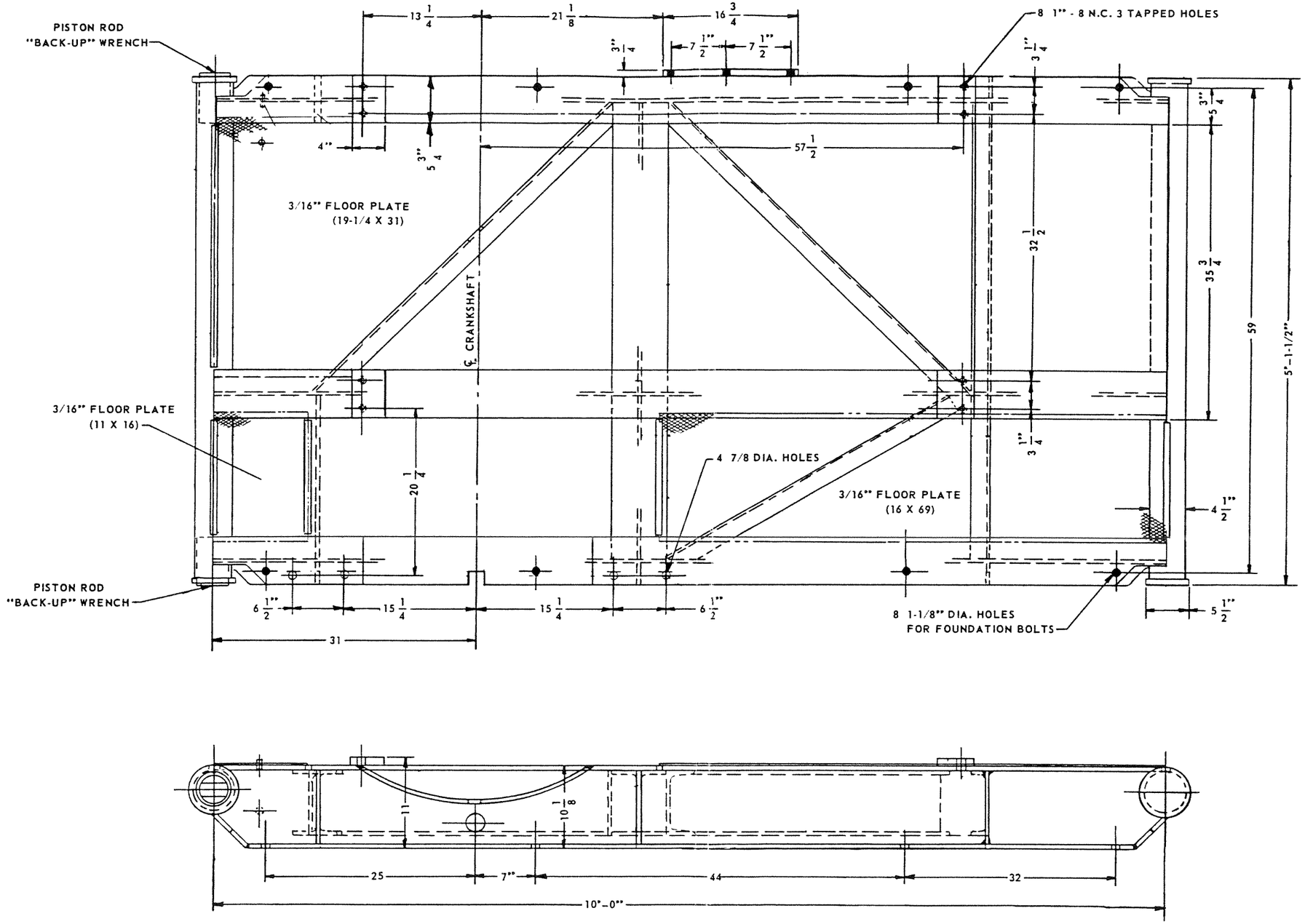
ENGR. REF.		P190 - BE1	C
COMMERCIAL			





NOTE: THESE DIMENSIONS ARE ACCURATE BUT SHOULD NOT BE USED FOR INSTALLATION UNLESS CERTIFIED.

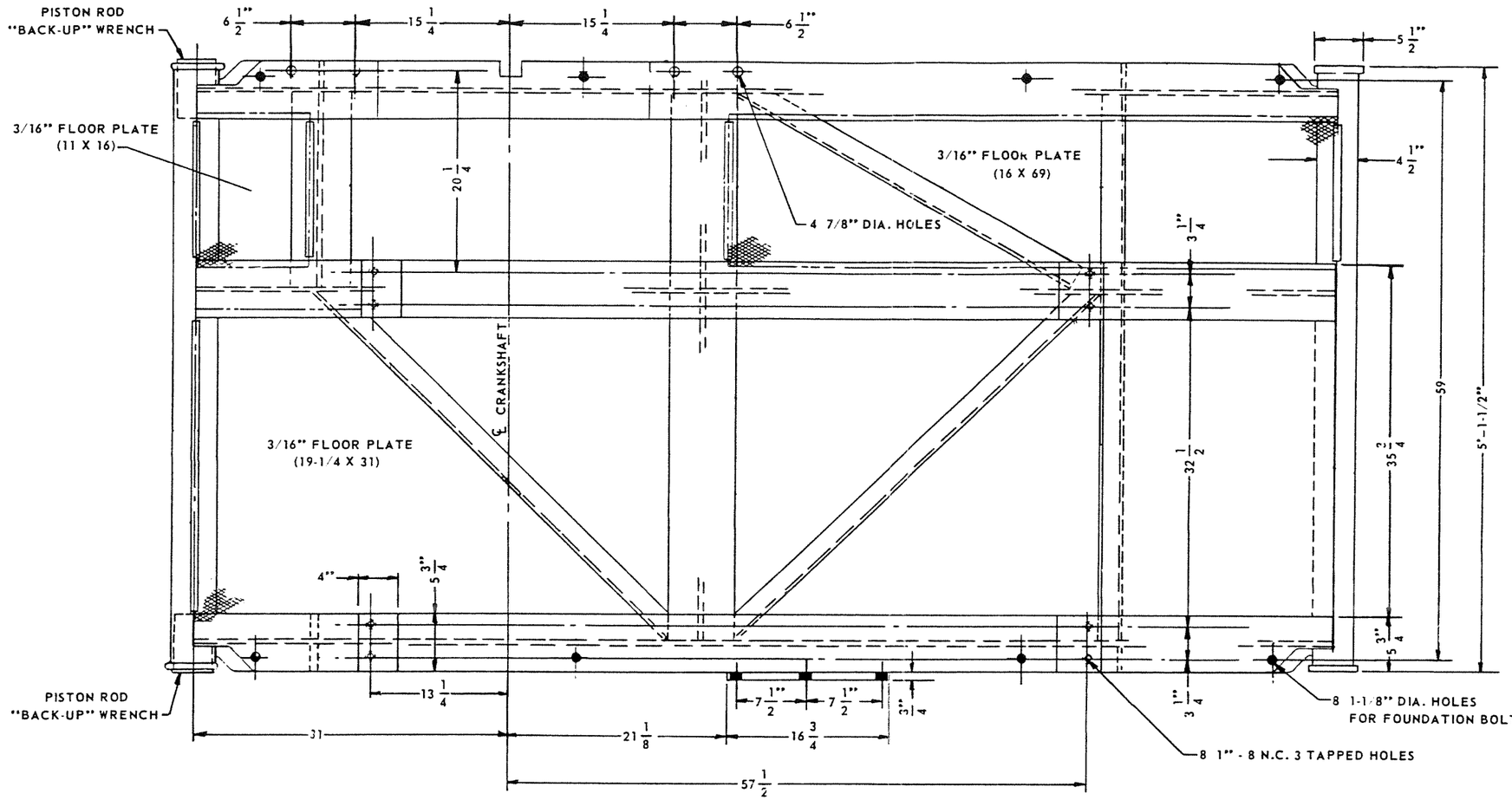
SKID BASE (LESS GEAR UNIT) 350-PT TRIPLEX PISTON PUMP			
ENGR. REF.	10-305-066	TS - 132	B
COMMERCIAL			

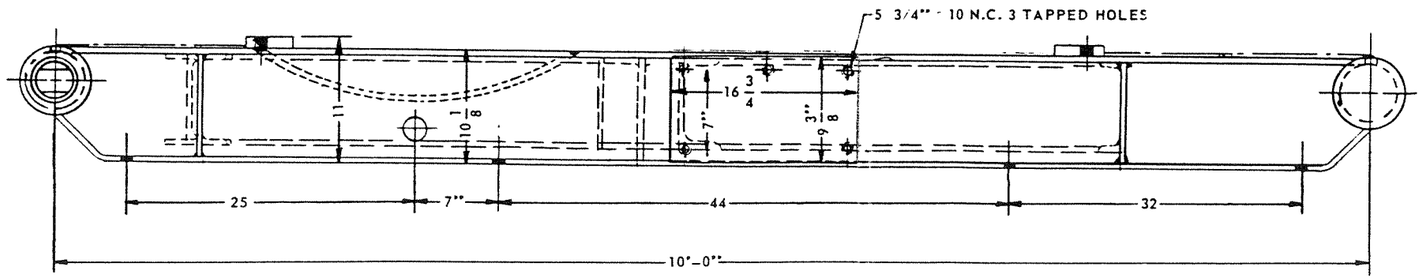


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NOTE: THESE DIMENSIONS ARE ACCURATE BUT SHOULD NOT BE USED FOR INSTALLATION UNLESS CERTIFIED.

SKID BASE (W/ R.H. GEAR UNIT) 350-PT TRIPLEX PISTON PUMP			
ENGR. REF.	10-305-048	TS - 134	B
COMMERCIAL			

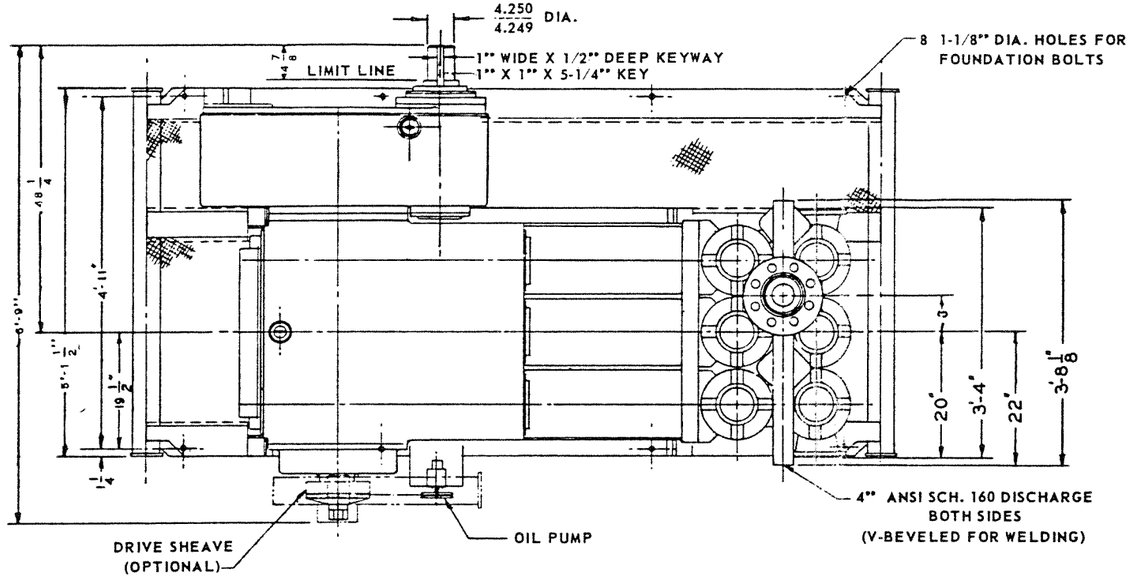


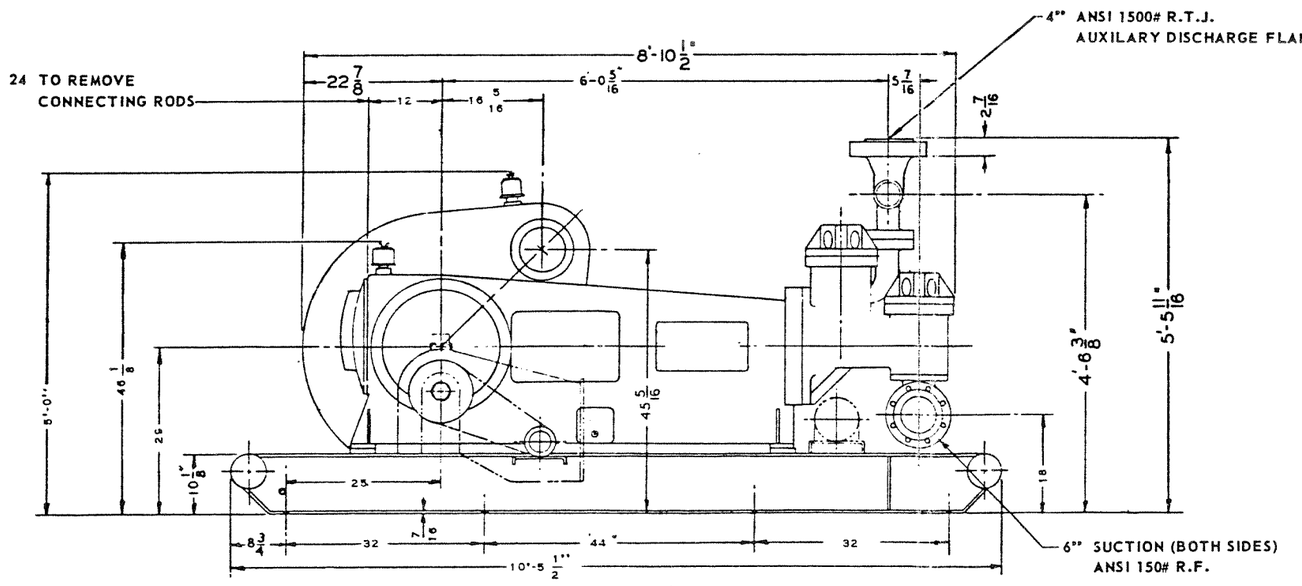


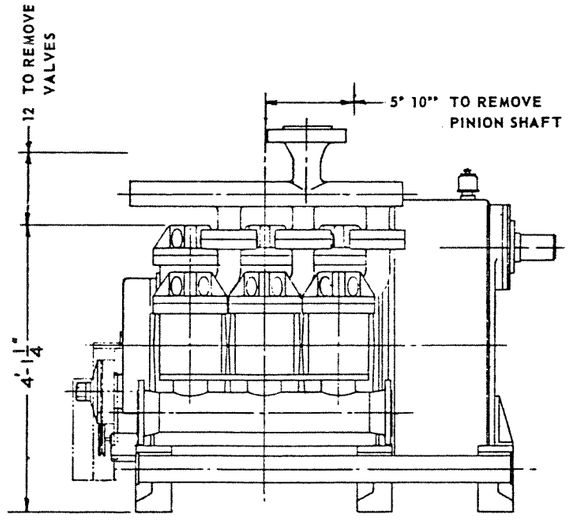
NOTE: THESE DIMENSIONS ARE ACCURATE BUT SHOULD NOT BE USED FOR INSTALLATION UNLESS CERTIFIED.

SKID BASE (W/ L.H. GEAR UNIT) 350-PT TRIPLEX PISTON PUMP			
ENGR. REF.	10-305-049	TS - 135	B
COMMERCIAL			

PUMP, AS SHOWN, IS FOR LEFT HAND DRIVE.
RIGHT HAND DRIVE IS OPPOSITE THAT SHOWN.







NOTE: THESE DIMENSIONS ARE ACCURATE BUT SHOULD NOT BE USED FOR INSTALLATION UNLESS CERTIFIED.

OUTLINE DIMENSIONS 350-PT TRIPLEX PISTON PUMP			
ENGR. REF.		P190 - D2	D
COMMERCIAL			