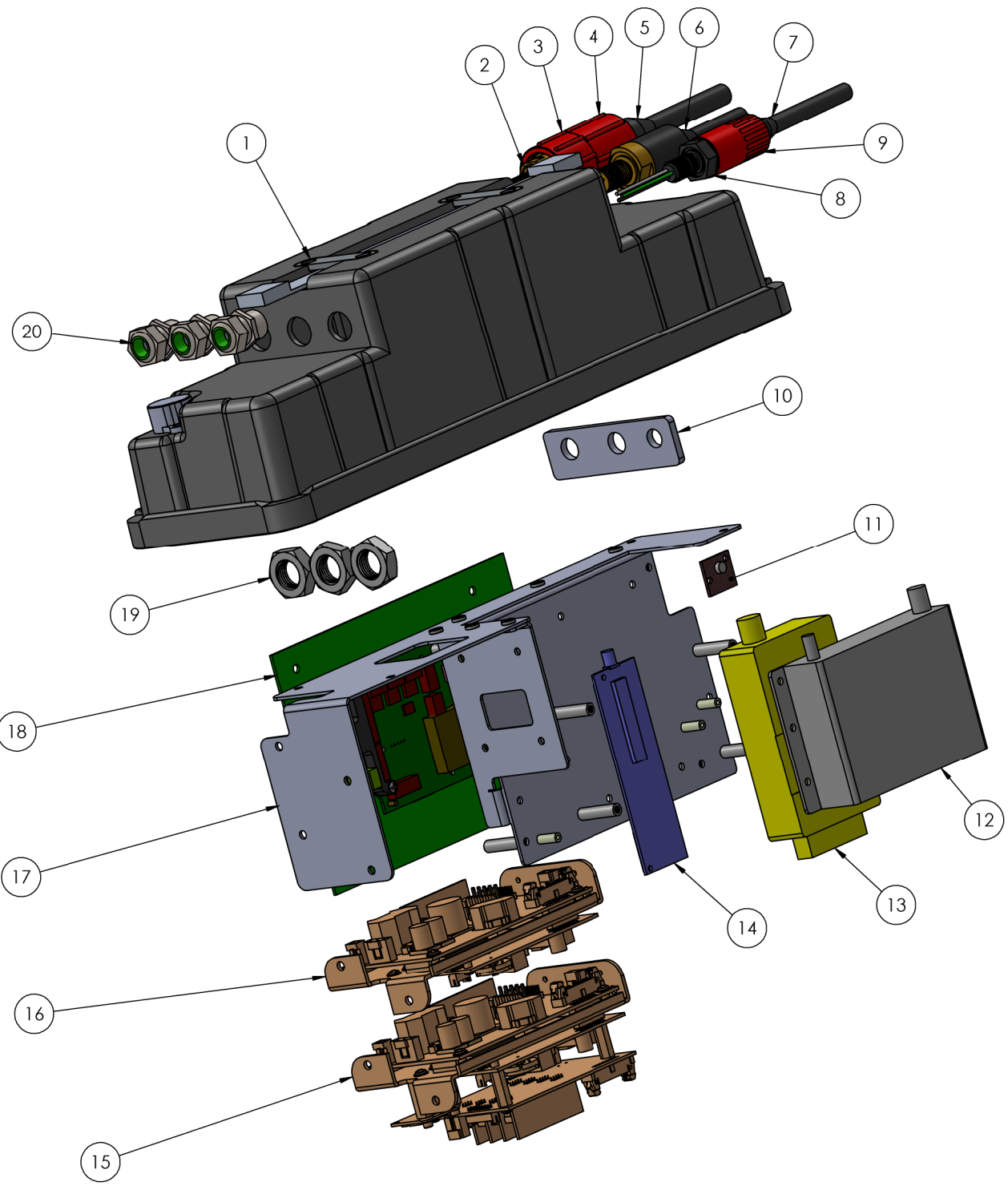




HOTSPOT 1U PAYLOAD ASSEMBLY

NOTES:
1.

(c) MBARI 2017 MBARI provides the documentation and materials "as is", with no warranty, express or implied, as to title, non-infringement of third party rights, merchantability, or fitness for any particular purpose, or the performance or results which you may obtain from their use. You assume the entire risk associated with use.

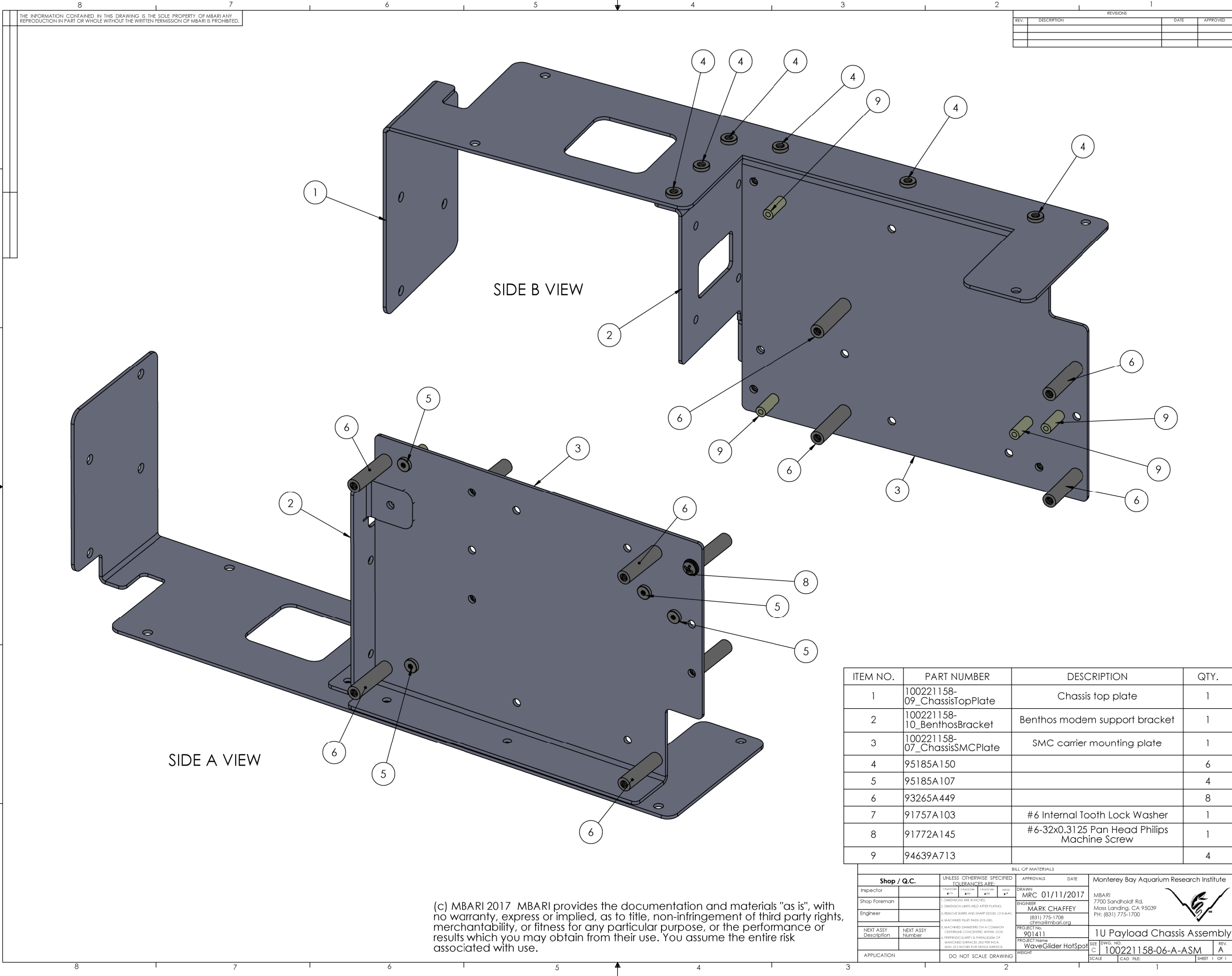
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/11/17	MRC

Wave Glider SV3 HotSpot 1U Payload Box Drawing List		
Electrical Drawings		
Drawing Number	Description	Schematic Filename
100221158-00-SCH	System Diagram	HOTSPOT_SV3_PAYLOADBOX.DSN
100221158-01-SCH	Wiring Diagram	HOTSPOT_SV3_PAYLOADBOX.DSN
100221158-02-SCH	Acoustic modem connectors	HOTSPOT_SV3_PAYLOADBOX.DSN
100221158-03-SCH	CCU to payload cable	HOTSPOT_SV3_PAYLOADBOX.DSN
100221158-04-SCH	Transducer cable	HOTSPOT_SV3_PAYLOADBOX.DSN

Wave Glider SV3 HotSpot 1U Payload Box Drawing List		
Mechanical Drawings		
Drawing Number	Description	Model Filename
100221158-05-ASM	1U HotSpot payload box assembly	100221158-05-ASM_HotSpot_1U_Payload.SLDASM
100221158-06-ASM	HotSpot chassis assembly	100221158-06-ASM_HotSpot_1U_ChassisAssembly.SLDASM
100221158-07-DWG	Chassis SMC mounting plate	100221158-07_ChassisSMCPlate.SLDPRT
100221158-08-DWG	Connector backing plate	100221158-08_BackingPlate.SLDPRT
100221158-09-DWG	Chassis top plate	100221158-09_ChassisTopPlate.SLDPRT
100221158-10-DWG	Chassis Benthos modem bracket	100221158-10_BenthosBracket.SLDPRT
100221158-11-DWG	1U HotSpot payload box modifications	100221158-11_SV3_1_MPU_BOX_Modified.SLDASM
100221158-12-ASM	WaveGlider skag assembly - dual transducer	100221158-12_2XducerFinAssembly.SLDASM
100221158-13-DWG	Dual transducer starboard fairing	100221158-13_Starboard2TransducerFairing.SLDPRT
100221158-14-DWG	Dual transducer port fairing	100221158-14_Port2TransducerFairing.SLDPRT
100221158-15-DWG	DAT transducer mounting plate	100221158-15_DAT_MountPlate.SLDPRT
100221158-16-DWG	LF directional transducer mounting plate	100221158-16_LFDirectionalMountPlate.SLDPRT
100221158-17-DWG	Dual transducer skag modifications	100221158-17_SV3_1_Foil_Blank_Modified.SLDPRT
100221158-18-ASM	WaveGlider skag assembly - LF directional transducer	100221158-18_LFDirectionalFinAssembly.SLDASM
100221158-19-DWG	LF directional transducer starboard fairing	100221158-19_StarboardLFDirectionalFairing.SLDPRT
100221158-20-DWG	LF directional transducer port fairing	100221158-20_PortLFDirectionalFairing.SLDPRT
100221158-21-DWG	LF directional skag modifications	100221158-21_SV3_Skag_PN05954_ModifiedLFDirectional.SLDPRT
100221158-22-ASM	WaveGlider skag assembly - DAT transducer	100221158-22_DAT_SkagAssembly.SLDASM
100221158-23-DWG	DAT transducer starboard fairing	100221158-23_StarboardDATTransducerFairing.SLDPRT
100221158-24-DWG	DAT transducer port fairing	100221158-24_PortDATTransducerFairing.SLDPRT
100221158-25-DWG	SV3 Skag modified for DAT transducer	100221158-25_SV3_Skag_PN05954_ModifiedForDAT.SLDPRT
100221158-26-ASM	WaveGlider stern well LF directional mounting assembly	100221158-26-ASM_LFDirectionalSternWellMount.SLDASM
100221158-27-DWG	TBD	TBD
100221158-28-DWG	TBD	TBD
10020997-00-ASM	WaveGlider antenna assembly	10020997-00-ASM_AntennaAssembly.SLDASM
10020997-01-DWG	Antenna mounting base part	10020997-01_AntennaBase.SLDPRT
10020997-02-DWG	Antenna base clamp piece	10020997-02_AntennaBase_Clamp.SLDPRT
10020997-03-ASM	Complete antenna base assembly	10020997-03_AntennaBaseAssembly.SLDASM
10020997-04-DWG	Glue ferrule for carbon tube	10020997-04_AntennaLowerFerrule.SLDPRT
10020997-05-DWG	Glue ferrule for carbon tube	10020997-05_AntennaUpperFerrule.SLDPRT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100221158-11_SV3_1_MPU_BOX_Modified	Liquid Robotics 1 MPU payload box (modified)	1
2	SubconnMCBH-12-FS	Subconn connector	1
3	SubconnDLA-M	Subconn locking sleeve	1
4	SubconnDLA-F	Subconn locking sleeve	1
5	SubconnMCIL-12-MP	Subconn connector	1
6	SubconnPNAAT-1-2	Subconn connector	1
7	SubconnMCIL-3-MP	Subconn connector	1
8	SubconnMCBH-3-FS	Subconn connector	1
9	SubconnMCDLS-F	Subconn locking sleeve	1
10	100221158-08_BackingPlate	Backing plate for connectors	1
11	SEN-12909_PressureSensor	Stand alone pressure sensor	1
12	CellModem_MTCMR-EV3	MultiTech MTCMR-EV3 CDMA modem	1
13	Iridium-A3LA-R	Iridium A3LA-R satellite modem	1
14	PicoStation_M2_802.11Modem	Ubiquiti Networks PicoStation M2HP WiFi access point	1
15	BenthosDATModem	Benthos DAT modem with short chassis	1
16	BenthosLFModem	Benthos LF modem with short chassis	1
17	100221158-06-ASM_HotSpot_1U_ChassisAssembly	HotSpot 1U chassis assembly	1
18	SMCand3MPUCarrier	Liquid Robotics 3MPU carrier with SMC computer	1
19	91938A135	M16-1.5 thin hex nut	3
20	GlandFitting_Agro_1100.17.98	Cable gland fitting	3

BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED	APPROVALS DATE
Inspector		TOLERANCES	DATE
Shop Foreman		FRACTIONAL DECIMAL INCHES	MRC 01/11/2017
Engineer		1/16" .001" .002" .005" .010" .015" .020" .030" .040" .050" .060" .070" .080" .090" .100" .125" .150" .175" .200" .250" .300" .375" .400" .450" .500" .562" .625" .688" .750" .875" .938" 1.000" 1.125" 1.250" 1.375" 1.500" 1.625" 1.750" 1.875" 2.000" 2.125" 2.250" 2.375" 2.500" 2.625" 2.750" 2.875" 3.000" 3.125" 3.250" 3.375" 3.500" 3.625" 3.750" 3.875" 4.000" 4.125" 4.250" 4.375" 4.500" 4.625" 4.750" 4.875" 5.000" 5.125" 5.250" 5.375" 5.500" 5.625" 5.750" 5.875" 6.000" 6.125" 6.250" 6.375" 6.500" 6.625" 6.750" 6.875" 7.000" 7.125" 7.250" 7.375" 7.500" 7.625" 7.750" 7.875" 8.000" 8.125" 8.250" 8.375" 8.500" 8.625" 8.750" 8.875" 9.000" 9.125" 9.250" 9.375" 9.500" 9.625" 9.750" 9.875" 10.000" 10.125" 10.250" 10.375" 10.500" 10.625" 10.750" 10.875" 11.000" 11.125" 11.250" 11.375" 11.500" 11.625" 11.750" 11.875" 12.000" 12.125" 12.250" 12.375" 12.500" 12.625" 12.750" 12.875" 13.000" 13.125" 13.250" 13.375" 13.500" 13.625" 13.750" 13.875" 14.000" 14.125" 14.250" 14.375" 14.500" 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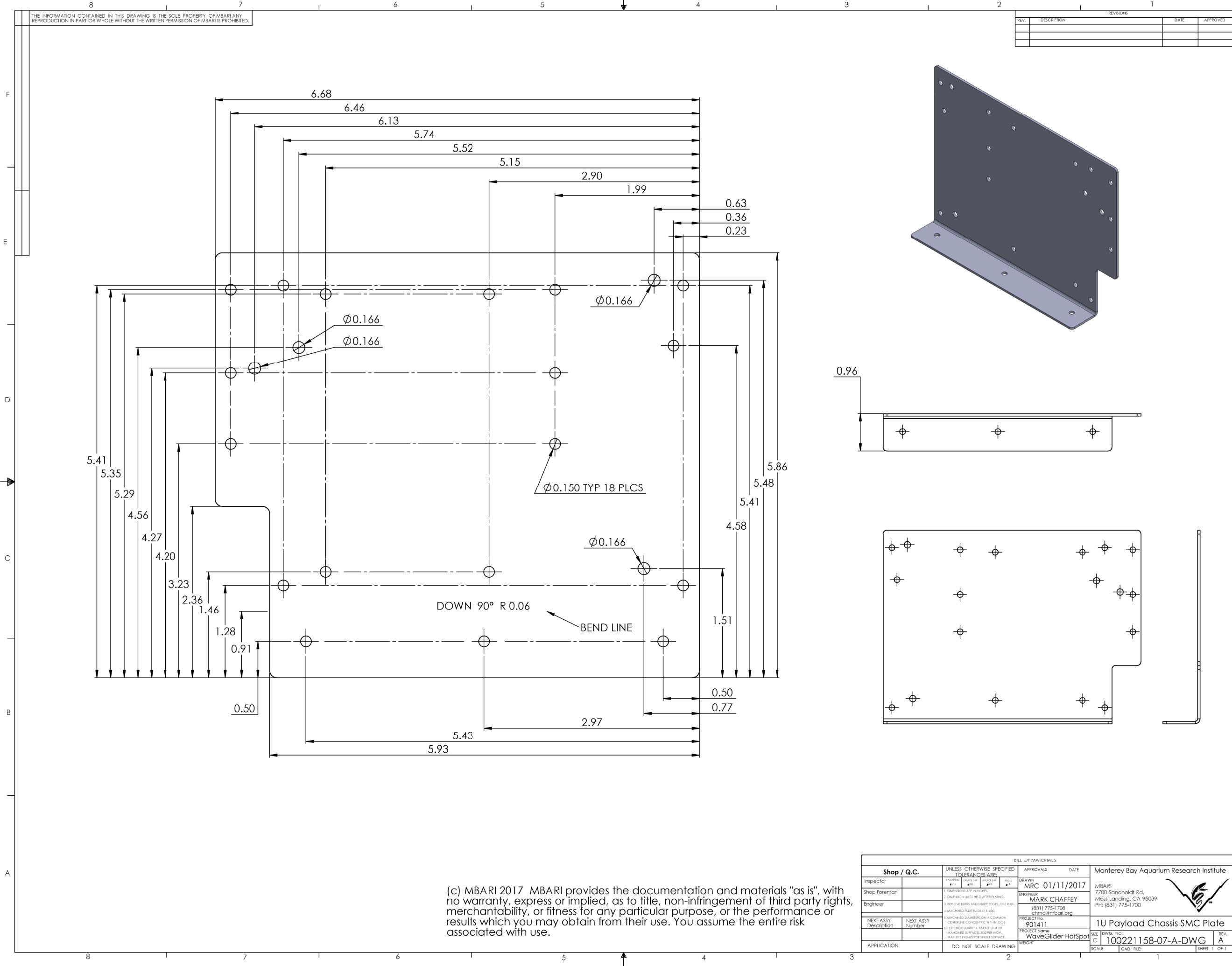
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100221158-09_ChassisTopPlate	Chassis top plate	1
2	100221158-10_BenthosBracket	Benthos modem support bracket	1
3	100221158-07_ChassisSMCPlate	SMC carrier mounting plate	1
4	95185A150		6
5	95185A107		4
6	93265A449		8
7	91757A103	#6 Internal Tooth Lock Washer	1
8	91772A145	#6-32x0.3125 Pan Head Philips Machine Screw	1
9	94639A713		4

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE		Monterey Bay Aquarium Research Institute	
Inspector		FRACTIONAL	DECIMAL	DRAWN	MRC	01/11/2017		MBARI	
Shop Foreman		1/16"	.001"	ENGINEER	MARK CHAFFEY			7700 Sandholdt Rd.	
Engineer		3/32"	.005"		(831) 775-1708			Mass Landing, CA 95039	
					chm@mbat.org			PH: (831) 775-1700	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITH .005" PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002" PER RICH. MAX. .015" RICHES FOR SINGLE SURFACE.		PROJECT No.	901411	PROJECT Name		1U Payload Chassis Assembly	
		4. MACHINED FILLER RADI .015-.030.		PROJECT Name	WaveGlider HotSpot	REV.		A	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SCALE		SHEET 1 OF 1	

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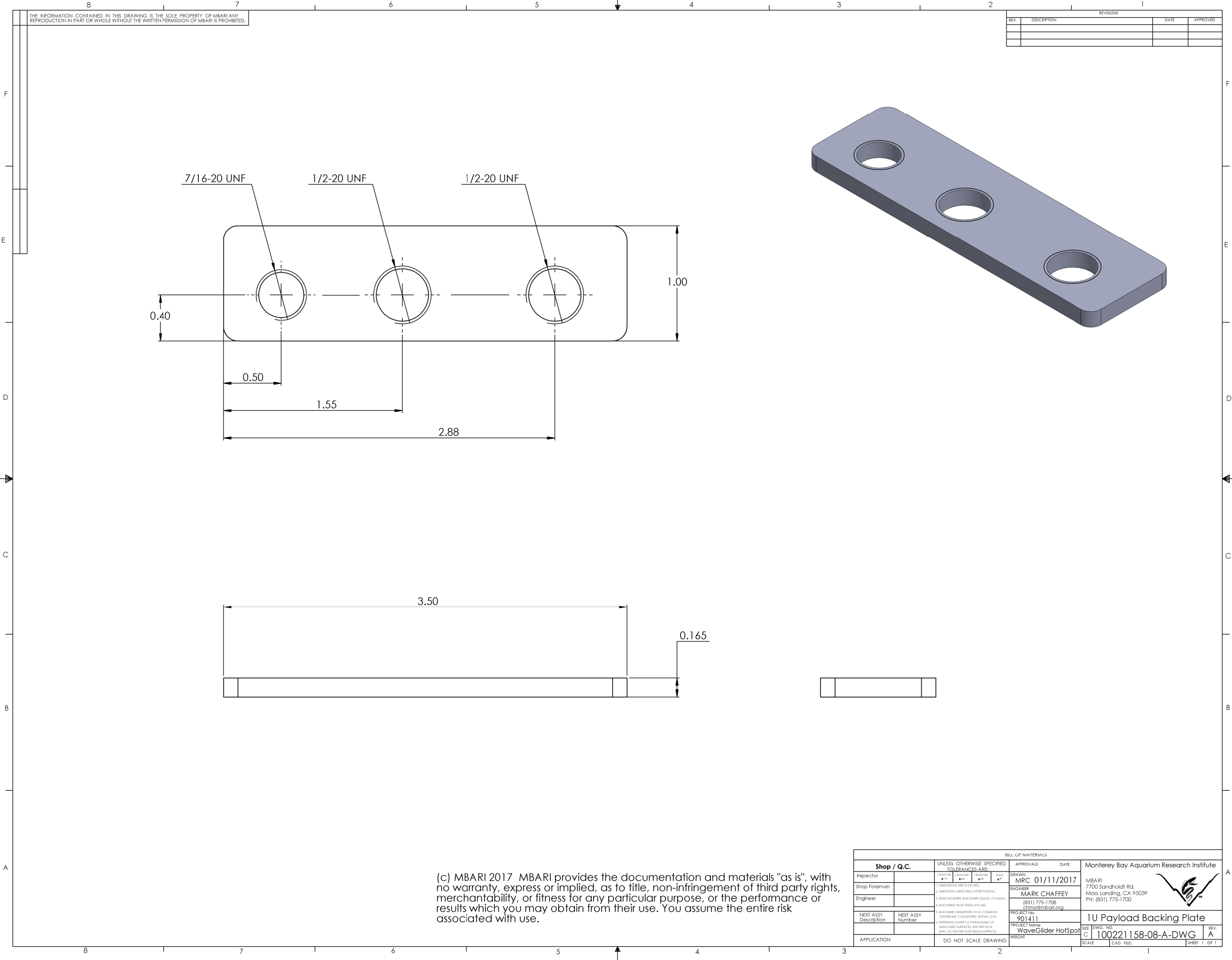


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

(c) MBARI 2017 MBARI provides the documentation and materials "as is", with no warranty, express or implied, as to title, non-infringement of third party rights, merchantability, or fitness for any particular purpose, or the performance or results which you may obtain from their use. You assume the entire risk associated with use.

BILL OF MATERIALS			
Shop / Q.C.		APPROVALS	DATE
Inspector		DRAWN	MRC 01/11/2017
Shop Foreman		ENGINEER	MARK CHAFFEY
Engineer			(831) 775-1708
NEXT ASSY Description		PROJECT No.	
NEXT ASSY Number		PROJECT Name	
APPLICATION		WEIGHT	
UNLESS OTHERWISE SPECIFIED		TOLERANCES ARE	
1. FRACTIONS		2. DECIMALS	
3. DIMENSIONS ARE IN INCHES		4. REMOVE BURRS AND SHARP EDGES (0.015 MAX.)	
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITH (0.001)		6. REFERRED SURFACES TO PARALLELISM OF MACHINED SURFACES (0.001 PER INCH)	
7. MAX. 0.015 INCHES FOR SINGLE SURFACE		8. MACHINED FILLER RADI (0.015-0.030)	
DO NOT SCALE DRAWING		SCALE	
C		100221158-07-A-DWG	
SHEET 1 OF 1		REV. A	



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

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BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED	APPROVALS
Inspector		TOLERANCES ARE:	DATE
Shop Foreman		FRACTIONS DECIMALS ANGLES	DRAWN
Engineer		1/16" 0.0625 1/32" 0.03125 1/64" 0.015625	MRC 01/11/2017
		1. DIMENSIONS ARE IN INCHES.	ENGINEER
		2. DIMENSIONS UNLESS NOTED AFTER PLATING.	MARK CHAFFEY
		3. REMOVE BURRS AND SHARP EDGES (0.015 MAX).	(831) 775-1708
		4. MACHINED FILLER RADI (0.015-0.030).	chm@mbat.org
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITH GD&S	PROJECT No.
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES (0.02 PER RICH. MAX. 0.03 INCHES FOR SINGLE SURFACE.	901411
APPLICATION		DO NOT SCALE DRAWING	PROJECT Name
			WaveGlider HotSpot
			WEIGHT
			SCALE
			CAD FILE
			SHEET 1 OF 1

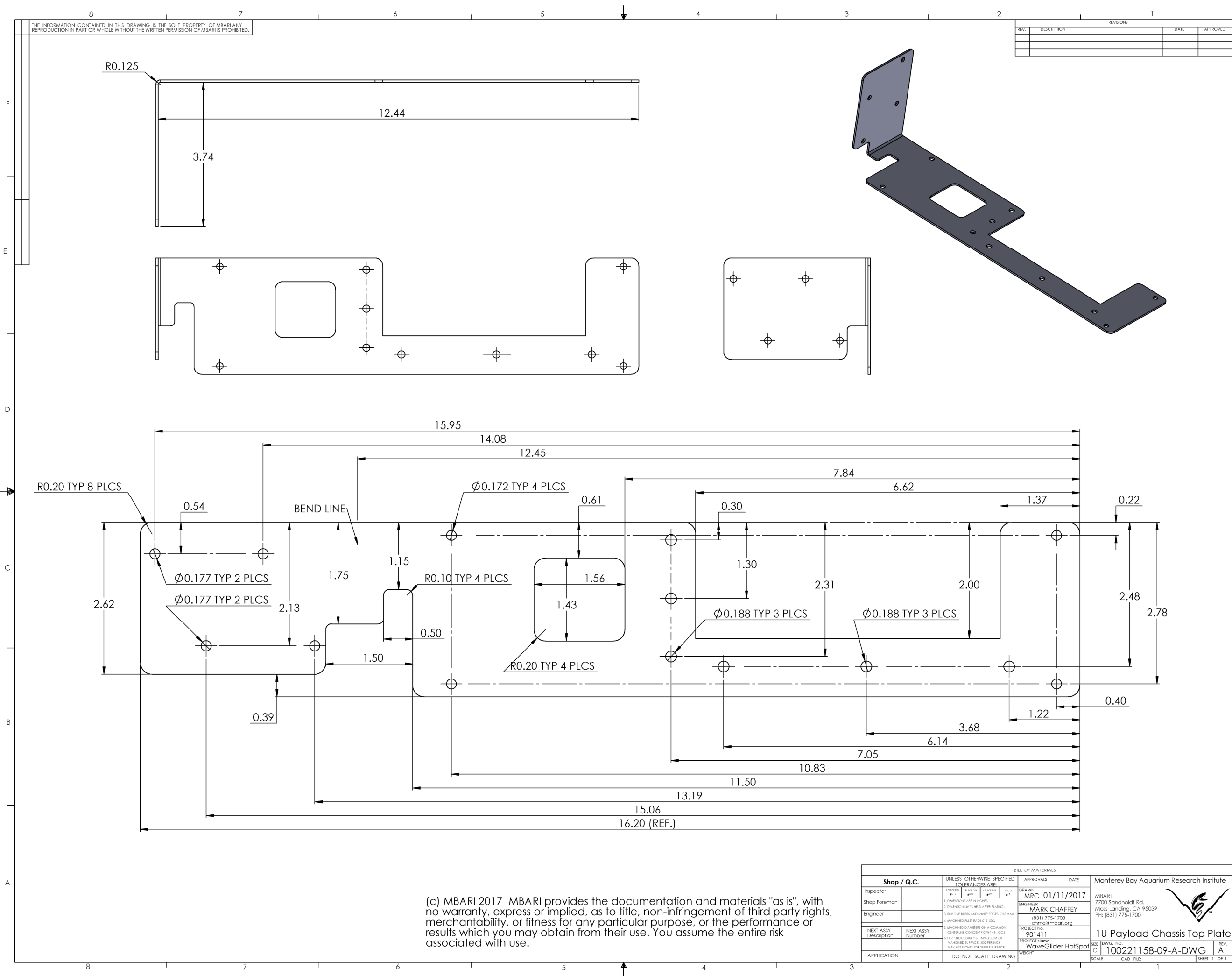
Monterey Bay Aquarium Research Institute

MBARI
7700 Sandholdt Rd.
Marina del Rey, CA 90403
PH: (831) 775-1700

1U Payload Backing Plate

DWG. NO. 100221158-08-A-DWG

REV. A



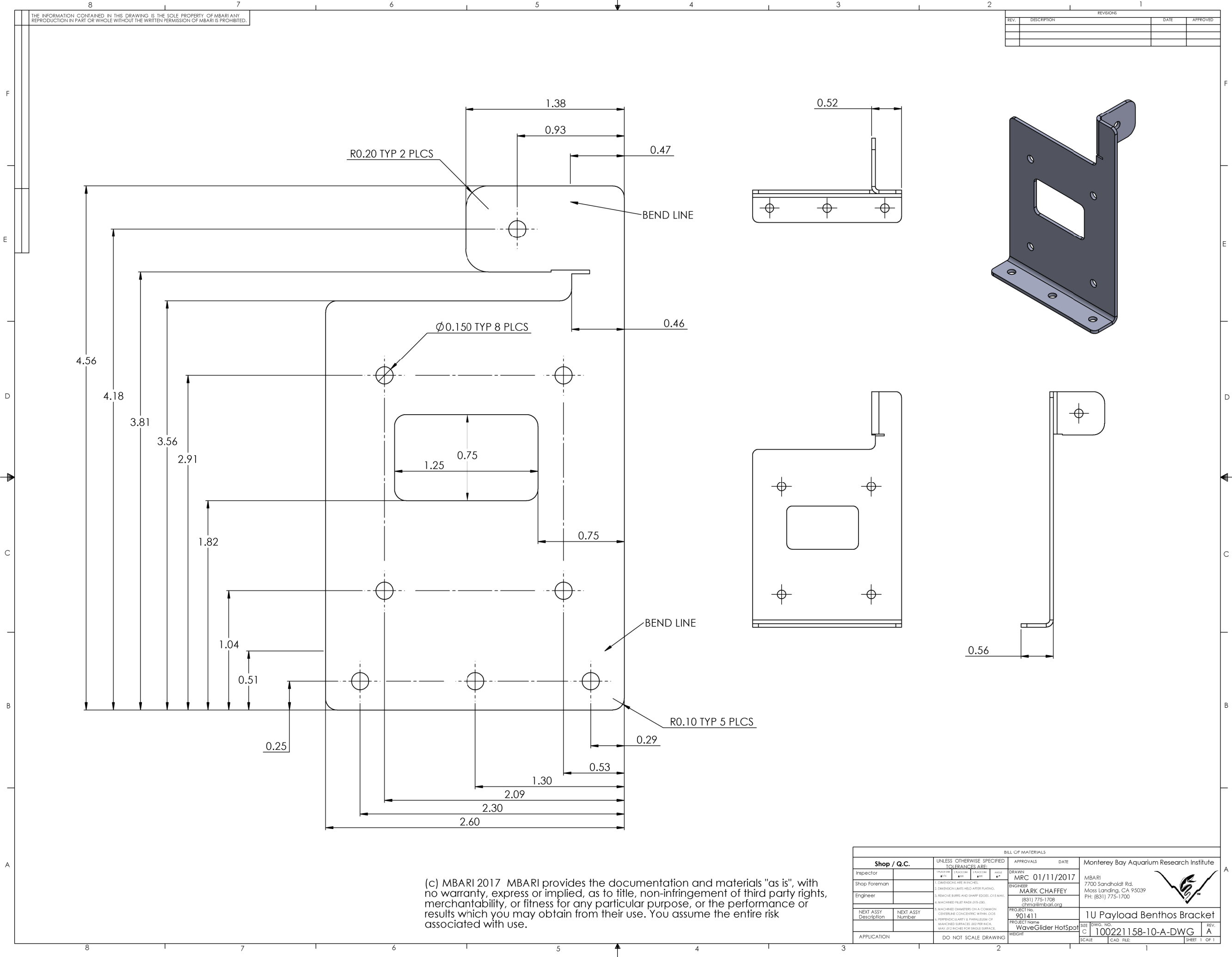
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

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BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED	APPROVALS
Inspector		TOLERANCES ARE: FRACTIONS DECIMALS ANGLES #1/16 #100 #101 #102 #103 #104 #105 #106 #107 #108 #109 #110 #111 #112 #113 #114 #115 #116 #117 #118 #119 #120 #121 #122 #123 #124 #125 #126 #127 #128 #129 #130 #131 #132 #133 #134 #135 #136 #137 #138 #139 #140 #141 #142 #143 #144 #145 #146 #147 #148 #149 #150 #151 #152 #153 #154 #155 #156 #157 #158 #159 #160 #161 #162 #163 #164 #165 #166 #167 #168 #169 #170 #171 #172 #173 #174 #175 #176 #177 #178 #179 #180 #181 #182 #183 #184 #185 #186 #187 #188 #189 #190 #191 #192 #193 #194 #195 #196 #197 #198 #199 #200	DATE
Shop Foreman			DATE
Engineer			DATE
NEXT ASSY Description	NEXT ASSY Number		
APPLICATION		DO NOT SCALE DRAWING	

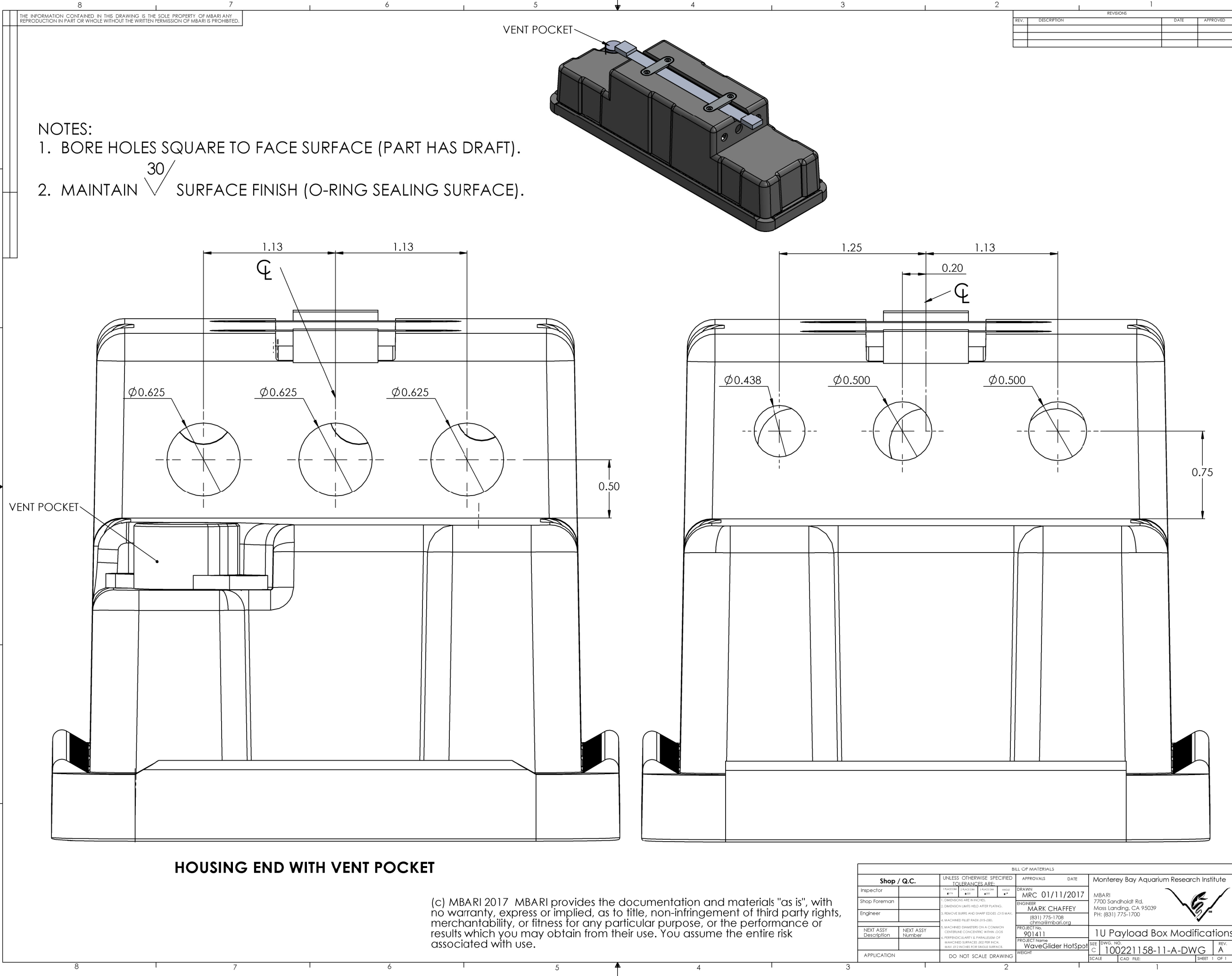
DRAWN MRC 01/11/2017		Monterey Bay Aquarium Research Institute	
ENGINEER MARK CHAFFEY		MBARI 7700 Sandholdt Rd. Marine Laboratory, CA 95039 PH: (831) 775-1708 chm@mbari.org	
PROJECT No. 901411		1U Payload Chassis Top Plate	
PROJECT Name WaveGlider HotSpot		DWG. NO. 100221158-09-A-DWG	
WEIGHT		REV. A	
		SCALE	
		CAD FILE	
		SHEET 1 OF 1	



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

BILL OF MATERIALS										
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS		DATE		Monterey Bay Aquarium Research Institute	
Inspector		FRACTIONS DECIMALS ANGLES			DRAWN		MRC 01/11/2017		MBARI	
Shop Foreman		1/16 1/32 1/64 3/32 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 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494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 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1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 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2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2								



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Shop / Q.C.				UNLESS OTHERWISE SPECIFIED		TOLERANCES ARE		APPROVALS		DATE		Monterey Bay Aquarium Research Institute	
Inspector				1	2	3	4	DRAWN	MRC	01/11/2017		MBARI	
Shop Foreman				5	6	7	8	ENGINEER	MARK CHAFFEY			7700 Sandholdt Rd.	
Engineer				9	10	11	12		(831) 775-1708			Moss Landing, CA 95039	
				13	14	15	16		chm@mbat.org			PH: (831) 775-1700	
NEXT ASSY Description				17	18	19	20	PROJECT No.	901411			1U Payload Box Modifications	
NEXT ASSY Number				21	22	23	24	PROJECT Name	WaveGlider HotSpot			DWG. NO.	
				25	26	27	28	WEIGHT				C	100221158-11-A-DWG
APPLICATION				29	30	31	32	DO NOT SCALE DRAWING				SCALE	
				33	34	35	36					CAD FILE	
				37	38	39	40					SHEET	1 OF 1