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PART 77 OBSTRUCTIONS											
ID	TYPE	GROUND EL.	OBJECT EL.	PENETRATION					MITIGATION / DISPOSITION	OE/AAA NUMBER	OE/AAA NUMBER
				PRIMARY SURFACE	TRANSITIONAL SURFACE	APPROACH SURFACE	HORIZONTAL SURFACE	CONICAL SURFACE			
9-1	COMMUNICATION TOWER	1,420'	1,605'	-	-	143.7' CLEAR	-	-	TO REMAIN	1998-AGL-2681-OE	-
9-2	COMMUNICATION TOWER	1,433'	1,620'	-	-	48.9' CLEAR	-	-	TO REMAIN	2018-AGL-8542-OE	-
9-3	ANTENNA TOWER	1,470'	1,630'	-	-	28.2' CLEAR	-	-	TO REMAIN	1996-AGL-1064-OE	-
9-4	COMMUNICATION TOWER	1,442'	1,611'	-	-	515.0' CLEAR	-	-	TO REMAIN	2002-AGL-2160-OE	-
9-5	BUILDING	1,436'	1,448'	-	-	6.1' CLEAR	-	-	TO REMAIN	-	27-022593
27-1	WATER TANK	1,389'	1,541'	-	-	431.4' CLEAR	-	-	TO REMAIN	2010-AGL-2714-OE	-
27-2	ANTENNA TOWER	781'	858'	-	-	1,455.1' CLEAR	-	-	TO REMAIN	2009-AGL-3941-OE	-
3-1	GENERAL UTILITY	1,414'	1,424'	-	-	0.5' CLEAR	-	-	TO REMAIN	-	27-022574
3-2	ELECTRICAL SYSTEM	1,418'	1,424'	-	-	0.5' CLEAR	-	-	TO REMAIN	-	27-022661
P-1	TOWER	1,413'	1,458'	36.0' PEN.	-	-	-	-	TO REMAIN	-	27-022542
P-2	TOWER	1,410'	1,464'	42.0' PEN.	-	-	-	-	TO REMAIN	-	27-022535
P-3	NAVAID	1,413'	1,423'	3.0' PEN.	-	-	-	-	TO REMAIN	-	27-022653
P-4	NAVAID	1,414'	1,424'	4.0' PEN.	-	-	-	-	TO REMAIN	-	27-026510
P-5	TOWER	1,414'	1,433'	11.0' PEN.	-	-	-	-	TO REMAIN	-	27-022540
P-6	POLE	1,416'	1,438'	18.0' PEN.	-	-	-	-	TO REMAIN	-	27-022575
P-7	ELECTRICAL SYSTEM	1,418'	1,418'	2.7' CLEAR	-	-	-	-	TO REMAIN	-	27-022660
P-8	NAVAID	1,422'	1,425'	4.3' PEN.	-	-	-	-	TO REMAIN	-	27-022652
P-9	ELECTRICAL SYSTEM	1,420'	1,421'	0.3' PEN.	-	-	-	-	TO REMAIN	-	27-022663
P-10	GENERAL UTILITY	1,422'	1,426'	5.3' PEN.	-	-	-	-	TO REMAIN	-	27-022499
P-11	TOWER	1,424'	1,452'	31.3' PEN.	-	-	-	-	TO REMAIN	-	27-022534
P-12	NAVAID	1,419'	1,425'	4.3' PEN.	-	-	-	-	TO REMAIN	-	27-022350
P-13	ELECTRICAL SYSTEM	1,417'	1,419'	1.0' CLEAR	-	-	-	-	TO REMAIN	-	27-022659
T-1	ANTENNA TOWER	1,452'	1,602'	-	332.0' CLEAR	-	-	-	TO REMAIN	2017-AGL-16990-OE	-
T-2	COMMUNICATION TOWER	1,453'	1,625'	-	282.6' CLEAR	-	-	-	TO REMAIN	2008-AGL-4752-OE	-
T-3	REFINERY SITE	1,420'	1,495'	-	66.0' CLEAR	-	-	-	TO REMAIN	1993-AGL-2407-OE	-
T-4	ROTATING DISH	1,418'	1,448'	-	84.1' CLEAR	-	-	-	TO REMAIN	2008-AGL-1108-OE	-
T-5	MICROWAVE DISH	1,418'	1,448'	-	83.3' CLEAR	-	-	-	TO REMAIN	2008-AGL-1106-OE	-
T-6	LIGHT POLE	1,417'	1,447'	-	73.4' CLEAR	-	-	-	TO REMAIN	2007-AGL-2702-OE	-
T-7	LIGHT POLE	1,417'	1,441'	-	49.2' CLEAR	-	-	-	TO REMAIN	2007-AGL-2346-OE	-
T-8	LIGHT POLE	1,420'	1,444'	-	29.5' CLEAR	-	-	-	TO REMAIN	2007-AGL-2347-OE	-
T-9	LIGHT POLE	1,419'	1,443'	-	45.8' CLEAR	-	-	-	TO REMAIN	2007-AGL-2348-OE	-
T-10	LIGHT POLE	1,426'	1,450'	-	44.8' CLEAR	-	-	-	TO REMAIN	2007-AGL-2352-OE	-
T-11	LIGHT POLE	1,427'	1,451'	-	61.3' CLEAR	-	-	-	TO REMAIN	2007-AGL-2353-OE	-
T-12	WIND TURBINE	1,414'	1,445'	-	86.2' CLEAR	-	-	-	TO REMAIN	2011-WTE-2998-OE	-
T-13	COMMUNICATION TOWER	1,390'	1,558'	-	1,020.9' CLEAR	-	-	-	TO REMAIN	1999-AGL-5215-OE	-
T-14	ANTENNA TOWER	1,370'	1,465'	-	571.0' CLEAR	-	-	-	TO REMAIN	2003-AGL-1179-OE	-
T-15	TOWER	1,417'	1,546'	-	9.8' CLEAR	-	-	-	TO REMAIN	-	27-022645
T-16	TOWER	1,421'	1,452'	-	2.7' PEN.	-	-	-	TO REMAIN	-	27-022539
T-17	NAVAID	1,423'	1,465'	-	4.9' CLEAR	-	-	-	TO REMAIN	-	27-022578
T-18	POLE	1,412'	1,421'	-	2.9' PEN.	-	-	-	TO REMAIN	-	27-022507
T-19	ELECTRICAL SYSTEM	1,418'	1,419'	-	1.3' CLEAR	-	-	-	TO REMAIN	-	27-022665
T-20	POLE	1,426'	1,459'	-	6.1' PEN.	-	-	-	TO REMAIN	-	27-022508
T-21	POLE	1,426'	1,461'	-	7.9' PEN.	-	-	-	TO REMAIN	-	27-022664
T-22	POLE	1,430'	1,492'	-	7.0' PEN.	-	-	-	TO REMAIN	-	27-022569
T-23	POLE	1,423'	1,494'	-	11.7' PEN.	-	-	-	TO REMAIN	-	27-022654
T-24	POLE	1,427'	1,467'	-	10.7' PEN.	-	-	-	TO REMAIN	-	27-022592
T-25	AIR TRAFFIC CONTROL TOWER	1,410'	1,485'	-	7.9' PEN.	-	-	-	TO REMAIN	-	27-001079
T-26	TOWER	1,408'	1,471'	-	2.4' PEN.	-	-	-	TO REMAIN	-	27-022533
T-27	TOWER	1,410'	1,465'	-	6.1' CLEAR	-	-	-	TO REMAIN	-	27-022511
H-1	WATER TANK	1,456'	1,546'	-	-	31.8' CLEAR	-	-	TO REMAIN	2001-AGL-1412-OE	-
H-2	TOWER	1,430'	1,525'	-	-	52.8' CLEAR	-	-	TO REMAIN	1993-AGL-1814-OE	-
H-3	ANTENNA TOWER	1,416'	1,565'	-	-	12.8' CLEAR	-	-	TO REMAIN	2021-AGL-12784-OE	-
H-4	WATER TANK	1,420'	1,550'	-	-	27.8' CLEAR	-	-	TO REMAIN	1992-AGL-721-OE	-
H-5	ANTENNA TOWER	1,430'	1,498'	-	-	79.8' CLEAR	-	-	TO REMAIN	2004-AGL-7004-OE	-
H-6	MICROWAVE DISH	1,420'	1,520'	-	-	57.8' CLEAR	-	-	TO REMAIN	2008-AGL-1107-OE	-
H-7	SIGN	1,350'	1,414'	-	-	163.8' CLEAR	-	-	TO REMAIN	2000-AGL-9463-OE	-
H-8	MONOPOLE	1,365'	1,475'	-	-	102.8' CLEAR	-	-	TO REMAIN	2014-AGL-11951-OE	-
H-9	ANTENNA TOWER	1,406'	1,523'	-	-	54.8' CLEAR	-	-	TO REMAIN	2012-AGL-1928-OE	-
H-10	CELL TOWER	1,405'	1,450'	-	-	127.8' CLEAR	-	-	TO REMAIN	1992-AGL-2560-OE	-
H-11	ANTENNA TOWER	1,408'	1,471'	-	-	106.8' CLEAR	-	-	TO REMAIN	2019-AGL-17107-OE	-
H-12	ANTENNA TOWER	1,380'	1,450'	-	-	127.8' CLEAR	-	-	TO REMAIN	2006-AGL-1307-OE	-
H-13	ANTENNA TOWER	1,380'	1,579'	-	-	1.2' PEN.	-	OBSTRUCTION LIGHT	2007-AGL-5001-OE	-	-
H-14	COMMUNICATION TOWER	1,451'	1,561'	-	-	16.8' CLEAR	-	-	TO REMAIN	2000-AGL-416-OE	-
H-15	ANTENNA TOWER	1,450'	1,550'	-	-	27.8' CLEAR	-	-	TO REMAIN	2009-AGL-412-OE	-
H-16	COMMUNICATION TOWER	1,420'	1,570'	-	-	7.8' CLEAR	-	-	TO REMAIN	1999-AGL-1601-OE	-
C-2	COMMUNICATION TOWER	1,450'	1,600'	-	-	-	84.9' CLEAR	-	TO REMAIN	1998-AGL-3925-OE	-
C-5	ANTENNA	1,362'	1,435'	-	-	-	356.7' CLEAR	-	TO REMAIN	2001-AGL-2024-OE	-
C-1	ANTENNA TOWER	1,461'	1,599'	-	-	-	229.1' CLEAR	-	TO REMAIN	2003-AGL-6678-OE	-
C-3	WOODEN POLE	1,364'	1,414'	-	-	-	215.7' CLEAR	-	TO REMAIN	2003-AGL-6678-OE	-
C-4	ANTENNA TOWER	1,354'	1,426'	-	-	-	318.5' CLEAR	-	TO REMAIN	2010-AGL-393-OE	-
C-6	ANTENNA TOWER	1,359'	1,387'	-	-	-	338.4' CLEAR	-	TO REMAIN	2015-AGL-11811-OE	-



Short Elliott Hendrickson Inc.  
3535 Vadnais Center Drive  
St. Paul, MN 55110-3507  
651.490.2000  
800.325.2055  
651.490.2150 fax  
www.sehinc.com



**DULUTH INTERNATIONAL AIRPORT**  
DULUTH, MINNESOTA  
**AIRPORT LAYOUT PLAN**  
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NO.	MARK	DATE	DESCRIPTION

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DESIGN TEAM

**PART 77 OBSTRUCTION TABLE**

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