

WESTERN
HORIZONTAL ILLUMINANCE (lx)
Date: 5/3/2010 File: WALACE.FLD

Pole No.	X Co-ord	Y Co-ord	Height	Bracket	Light	Aim Angle	Aim Point	Luminaire Design
(Station No.)	No.	Horz Vert	X Co-ord	Y Co-ord	Code	No.	Lumen	
1	454881	281130	9.0	1.00	1	130	5	457232 280845 2015 4800
2	439164	289541	9.0	1.00	1	94	5	435929 289335 2015 4800
3	442833	272955	9.0	1.00	1	137	5	442622 273343 2015 4800
4	432636	289198	9.0	1.00	1	82	5	431737 288899 2015 4800
5	437754	279736	9.0	1.00	1	162	5	437937 276422 2015 4800
6	435120	278005	9.0	1.00	1	107	5	450683 277152 2015 4800
7	444943	276000	9.0	1.00	1	93	5	447944 275732 2015 4800
8	436388	286642	9.0	1.00	1	136	5	438899 286782 2015 4800
9	439933	280678	9.0	1.00	1	77	5	440162 280741 2015 4800
10	438313	285106	9.0	1.00	1	59	5	436336 285342 2015 4800
11	444048	275670	9.0	1.00	1	87	5	443937 275820 2015 4800

Code Manufacturer Description Lamps etc.
No.
2015 Manufacturer #2 USA URBAN AERO
570DA HPS

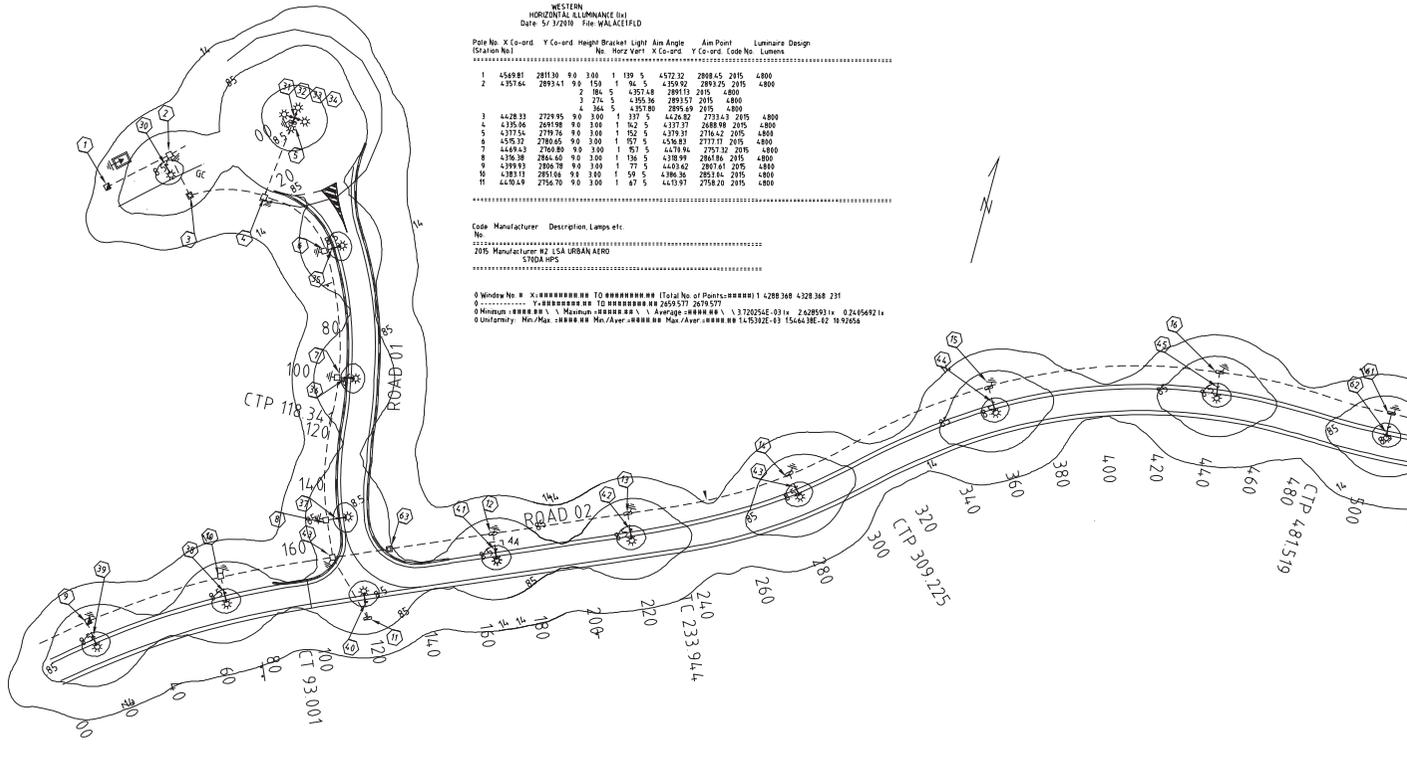
Window No. X:..... Y:..... (Total No. of Points:.....) 1 4289368 4328368 231
0..... Y:..... (Total No. of Points:.....) 2659571 2679571
0 Minimum:..... Maximum:..... Average:..... 1 370205E-03 1 2428991E-03 0.2445682E-1
0 Uniformity: Min/Max:..... Max/Aver:..... Max/Aver:..... 1 4.15392E-03 1564438E-02 10.92058

EASTERN
HORIZONTAL ILLUMINANCE (lx)
Date: 5/3/2010 File: WALACE.FLD

Pole No.	X Co-ord	Y Co-ord	Height	Bracket	Light	Aim Angle	Aim Point	Luminaire Design
(Station No.)	No.	Horz Vert	X Co-ord	Y Co-ord	Code	No.	Lumen	
1	532042	290657	9.0	1.00	1	264	5	511889 290310 2015 4800
2	548199	285041	9.0	1.00	1	326	5	538525 285142 2015 4800
3	536283	278241	9.0	1.00	1	209	5	536109 276225 2015 4800
4	520940	278244	9.0	1.00	1	205	5	529599 278201 2015 4800
5	517640	287162	9.0	1.00	1	221	5	537699 287132 2015 4800
6	521791	286067	9.0	1.00	1	221	5	523440 287182 2015 4800
7	526842	282325	9.0	1.00	1	126	5	526848 282132 2015 4800
8	526772	279877	9.0	1.00	1	36	5	525886 280124 2015 4800
9	507678	282708	9.0	1.00	1	201	5	507159 282336 2015 4800
10	503121	293183	9.0	1.00	1	179	5	503128 292825 2015 4800
11	498648	293097	9.0	1.00	1	179	5	498478 292848 2015 4800

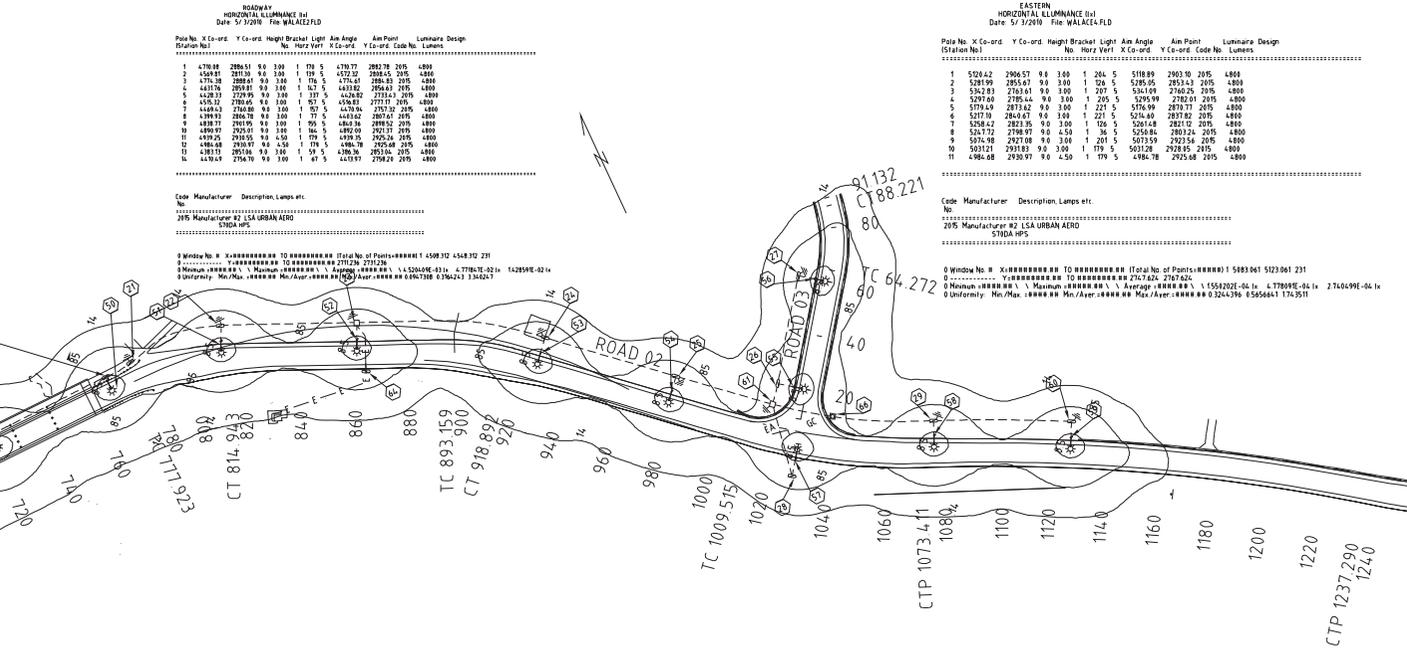
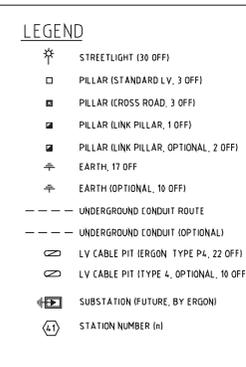
Code Manufacturer Description Lamps etc.
No.
2015 Manufacturer #2 USA URBAN AERO
570DA HPS

Window No. X:..... Y:..... (Total No. of Points:.....) 1 4321895 4364895 231
0..... Y:..... (Total No. of Points:.....) 2881902 2901902
0 Minimum:..... Maximum:..... Average:..... 1 3.075568E-02 1 2439902E-03 0.532058E-02
0 Uniformity: Min/Max:..... Max/Aver:..... Max/Aver:..... 1 0.515386 0.3684739 2.380331



NOTES

- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO ERGON UNDERGROUND MANUAL DRAWING S168 GENERALLY SECTION AA FOR PIT TO POLE CONDUITS, SECTION EA FOR PIT TO PIT / POLAR AND SECTION GC FOR MAIN ROAD CROSSINGS (IS OFF).
- STANDARD TRENCH ALIGNMENT FOR ELEC CONDUITS IS 0.3 TO 1.2 METRES OFF PROPERTY ALIGNMENT. SUBJECT TO LOCATION OF OTHER SERVICES FOR THIS DESIGN, AN OFFSET OF 0.75m FROM INSIDE THE 25m ROAD RESERVE BOUNDARY HAS BEEN USED FOR THE LV CONDUIT CENTRELINE (IE 1175m FROM CENTRE OF ROAD).
- PROVIDE AN OBSERVER WHEN WORKING IN PROXIMITY TO ENERGISED CABLES IN ACCORDANCE WITH THE ELECTRICITY SAFETY ACT.
- ALL STREETLIGHT CONDUITS TO BE LOCATED STRAIGHT OUT FROM SIDE BOUNDARY TO MINIMISE CONFLICT WITH ROAD CROSSINGS AND STORMWATER PIPES.
- ALL CONDUITS SHALL BE CONTINUOUS UNLESS CHANGED BY SUPERINTENDENT'S REP.
- FOR STANDARD URD CONSTRUCTION PRACTICES REFER TO DRAWINGS 5022 AND 5124.
- FOR POLE TO PIT DETAILS REFER LIGHTING CONSTRUCTION MANUAL ASSEMBLIES DWG B31 & SERVICES DWGS 8076 & 8077.
- CIVIL CONTRACTOR TO SUPPLY AND INSTALL STREETLIGHT BASES, AND SUBSTATION FOUNDATION (IF REQUIRED).
- PRIOR TO CONSTRUCTION, CONTRACTOR IS TO ARRANGE SITE MEETING WITH ERGON ENERGY TO FINALISE CONDUIT LOCATIONS AT ROAD INTERSECTIONS AND CROSSINGS.
- POWER FOR NEW ROAD LIGHTING TO BE INITIALLY FROM PORT / MARINA SIDE. ERGON TO INSTALL 4C LV CABLE TO NOMINATED PILLAR ON MARINA DRIVE. FUTURE SUPPLY TO WESTERN CIRCUIT TO BE FROM NEW LV CIRCUIT OFF PROPOSED NEW SUBSTATION LOCATED WEST OF ROUNDABOUT. ALL TERMINATIONS FROM MARINA END POWER SUPPLY TO BE BY ERGON.
- LIGHTING COLUMNS ARE TO BE OFFSET 1m BEHIND THE INVERT/BACK OF KERB AND CHANNEL / ROAD EDGE TO CENTRE OF THE POLE.
- THIS LIGHTING LAYOUT HAS BEEN DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING AS 1558 STANDARDS:
 - CATEGORY PL FOR ALL ROADS.
- THIS ROAD LIGHTING DESIGN IS BASED ON THE FOLLOWING MAINTENANCE SCHEDULE: BULK LAMP REPLACEMENT AT 36 MONTH INTERVALS AT WHICH POINT OPTICAL SURFACES AND DIFFUSERS OF THE LUMINAIRE WILL BE CLEANED AND GASKETS WILL BE CHECKED FOR DETERIORATION AND REPLACED WHERE NECESSARY. SPOT LAMP REPLACEMENTS WILL BE UNDERTAKEN TO ENSURE THAT NOT LESS THAN 95% OF ALL LUMINAIRES ARE TO BE IN SERVICE AT ANY TIME.
- UNLESS DIRECTED OTHERWISE BY THE CUSTOMER CONNECTION OFFICER CONDUITS FOR FUTURE CABLES SHALL BE TERMINATED AND CAPPED IN LINE WITH CONDUIT. AN ELECTRONIC CABLE MARKER (ECM) SHALL BE INSTALLED APPROXIMATELY 150mm ABOVE THE LINE OF CONDUIT TO IDENTIFY THE LOCATION.
- THE LOCATION OF EACH CABLE JOINT IS REQUIRED TO BE IDENTIFIED BY THE INSTALLATION OF AN ELECTRONIC CABLE MARKER (ECM) PLACED APPROXIMATELY 150mm ABOVE JOINT.
- ECMS ARE TO BE REMOVED AND RETURNED TO ERGON ENERGY WHEN ALL SPARE CONDUIT ENDS ARE REMOVED FROM LOCATION.



PRELIMINARY