

NOTES :

CONSTRUCTION STANDARDS  
 TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS, LATEST REVISION.  
 NO MAJOR CHANGES SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

SINGLE PHASE PAD-MOUNTED TRANSFORMER LOCATION  
 SEE CD205-3 FOR RULES PERTAINING TO THE PLACEMENT OF ALL PADMOUNTED EQUIPMENT

CUSTOMER ACCEPTANCE  
 THE CUSTOMER SERVICE DEPARTMENT REPRESENTATIVE IS RESPONSIBLE FOR OBTAINING WRITTEN CUSTOMER AGREEMENT TO THE PROPOSED INSTALLATION PRIOR TO CONSTRUCTION COMMENCEMENT.

SITE GRADING  
 THE DEVELOPER IS RESPONSIBLE FOR GRADING OF THE SITE TO WITHIN +0.15M OF FINISHED GRADE PRIOR TO CONSTRUCTION COMMENCEMENT. BENCHMARKS ARE TO BE OBTAINED FROM THE DEVELOPER OR CONSULTANT.

EQUIPMENT ELEVATIONS  
 THE DEVELOPER TO INDICATE ON ONE COPY OF THE MANITOBA HYDRO DRAWINGS) THE FINISHED GRADE AT ALL EQUIPMENT LOCATIONS, REFERENCED TO A BENCHMARK

SERVICE CONDUCTOR  
 SERVICE CONDUCTOR TO BE 110 AL PE/PVC/J TRIPLEX UNLESS NOTED OTHERWISE.

MAGENTA	PROPOSED TRENCH
RED	PROPOSED OBJECT
PINK	OBJECT TO BE ABANDONED
GREEN	OBJECT TO BE SALVAGED
BLACK	EXISTING OBJECT
L# ANNOTATION	1 - #4 AL CN STREET LIGHTING CABLE
LL# ANNOTATION	1 - 1/0 TRIPLEX STREET LIGHTING CABLE

AUTHORITY	NOTIFIED	NOT REQ'D	OBTAINED
DISTRICT	2019 XX XX		2019 XX XX
C.O.W./MUNICIPAL	2019 XX XX	X	2019 XX XX
M.T.S.		X	
GAS		X	
SHAW		X	
EASEMENTS		X	
COMMUNICATIONS		X	
S.C.C.		X	
DEPT. OF HIGHWAYS		X	

CONTACT	NAME	PHONE NUMBER	E-MAIL ADDRESS
DESIGN	TAMMY BALMANN	306-471-7541	TBALMANN@HYDRO.MB.CA
DESIGN ENGINEER	VICTOR EDOHO	306-261-2204	VEDOHO@HYDRO.MB.CA
PORTFOLIO PM	DARRIN WACH	451-2617	DWACH@HYDRO.MB.CA
ENERGY SERVICES	DARRYL STOCKI	918-0341	DSTOCKI@HYDRO.MB.CA
UG CONSTRUCTION	BILL AMMETER	981-4356	BAMMETER@HYDRO.MB.CA
OH CONSTRUCTION	WAYNE IRELAND	771-5212	WIreland@HYDRO.MB.CA
HYDRO GAS			
SHAW			
MTS			
CUSTOMER REP			
DISTRICT ENG TECH	ROB DENIKA	796-1926	RDENIKA@HYDRO.MB.CA

INSTALLED				
Quantity	Fixture Type	Wattage	Fixture Type	Wattage
14	LED	45	EXCLUSIVE	
##	LED	##	SHARED	
##	LED	##	EXCLUSIVE	
##	LED	##	SHARED	
##	LED	##	SHARED	

REMOVED				
Quantity	Fixture Type	Wattage	Fixture Type	Wattage
14	LED	45	EXCLUSIVE	
##	LED	##	SHARED	
##	LED	##	EXCLUSIVE	
##	LED	##	SHARED	
##	LED	##	SHARED	

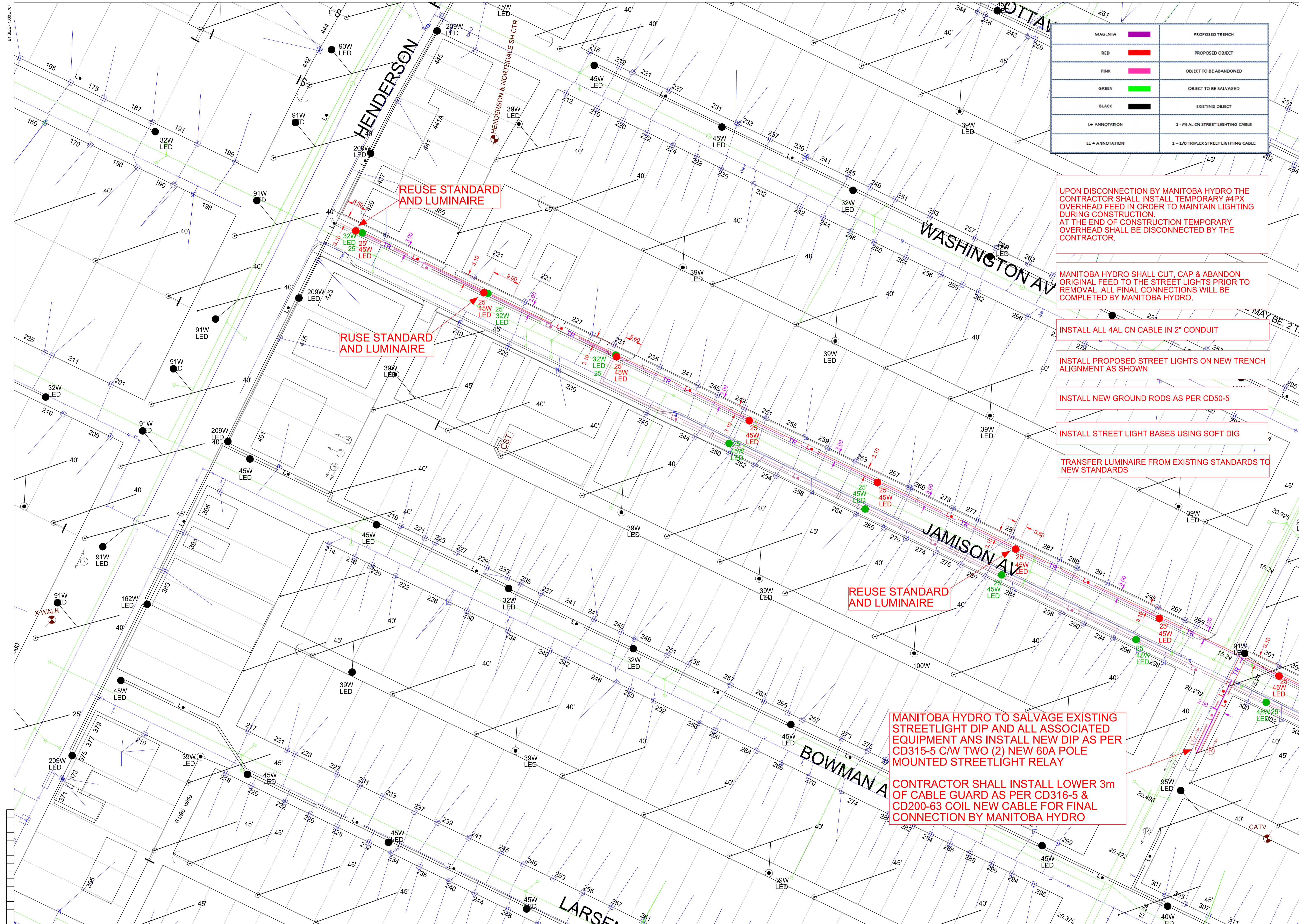
LED CONVERSION CHART		
HPS WATTAGE	EQUIVALENT LED WATTAGE	CATALOG NUMBER
100	73	ERS100SE1540
150	95	ERS150SE1740
250	138	ERS125WSE1540
400	209	ERS300SE1540

"STREETLIGHT PLACEMENT FOLLOWS IES STANDARDS AND THEY ARE PLACED ACCORDINGLY USING DRIVEWAY LOCATIONS PROVIDED BY THE DEVELOPER. DRIVEWAY LOCATIONS THAT HAVE BEEN CHANGED AFTER THE DESIGN HAS BEEN SEALED, RESULTING IN A CONFLICT BETWEEN STREETLIGHTS AND THE DRIVEWAY ARE THE RESPONSIBILITY OF THE DEVELOPER TO RECOVER THE COSTS ASSOCIATED WITH RELOCATING THE STREETLIGHTS."

BANNERS AND ASSOCIATED HARDWARE TO BE REMOVED AND RETURNED TO THE CITY OF WINNIPEG, 1277 PACIFIC AVENUE WITH AN ITEMIZED LIST AND QUANTITIES.

INFORMATION PERTAINING TO THE DATE, TYPE AND LOCATION OF MANITOBA HYDRO FACILITIES AND WITH ALL OTHER INFORMATION AND DATA NOT BEING RELIED ON FOR THE PURPOSES OF ANY ACTIVITY BEING CONDUCTED AT OR NEAR THE IDENTIFIED HYDRO INSTALLATIONS. ALL LOCATIONS AND EQUIPMENT MUST BE VISUALLY VERIFIED BY APPROPRIATE HYDRO PERSONNEL PRIOR TO ANY PHYSICAL ACTIVITY BEING UNDERTAKEN AT NEAR HYDRO INSTALLATIONS.

AREA NUMBER	5306	MANITOBA HYDRO
STATION NUMBER	N/A	DISTRIBUTION ENGINEERING
FEEDER NUMBER		WORK P:31731 NETWORK # 4305726
SYSTEM VOLTAGE	120/240V	CSC: ST BONIFACE
		CUSTOMER SERVICE PROJECT
		COW 19-R-02 - JAMISON AV - STREET RENEWAL
		REPLACE 14 DAVITS AND LUMINAIRES.
		INSTALL 675m OF 2" PIPE & #4AL.



REUSE STANDARD AND LUMINAIRE

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UPON DISCONNECTION BY MANITOBA HYDRO THE CONTRACTOR SHALL INSTALL TEMPORARY #4PX OVERHEAD FEED IN ORDER TO MAINTAIN LIGHTING DURING CONSTRUCTION.  
 AT THE END OF CONSTRUCTION TEMPORARY OVERHEAD SHALL BE DISCONNECTED BY THE CONTRACTOR.

MANITOBA HYDRO SHALL CUT, CAP & ABANDON ORIGINAL FEED TO THE STREET LIGHTS PRIOR TO REMOVAL. ALL FINAL CONNECTIONS WILL BE COMPLETED BY MANITOBA HYDRO.

INSTALL ALL 4AL CN CABLE IN 2" CONDUIT

INSTALL PROPOSED STREET LIGHTS ON NEW TRENCH ALIGNMENT AS SHOWN

INSTALL NEW GROUND RODS AS PER CD50-5

INSTALL STREET LIGHT BASES USING SOFT DIG

TRANSFER LUMINAIRE FROM EXISTING STANDARDS TO NEW STANDARDS

MANITOBA HYDRO TO SALVAGE EXISTING STREETLIGHT DIP AND ALL ASSOCIATED EQUIPMENT AND INSTALL NEW DIP AS PER CD315-5 C/W TWO (2) NEW 60A POLE MOUNTED STREETLIGHT RELAY

CONTRACTOR SHALL INSTALL LOWER 3m OF CABLE GUARD AS PER CD316-5 & CD200-63 COIL NEW CABLE FOR FINAL CONNECTION BY MANITOBA HYDRO

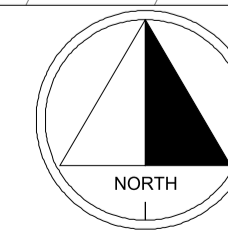
PROPOSED SEQUENCE OF CONSTRUCTION:  
 -MH STAFF SHALL DISCONNECT AND ISOLATE THE EXISTING STREET LIGHT POLES TO BE REPLACED.  
 -CONTRACTOR TO INSTALL TEMPORARY OH FEEDS BETWEEN EXISTING POLES.  
 -MH STAFF TO INSTALL FINAL DROP FROM EXISTING POLE TO SOURCE AND ENERGIZE.  
 -CONTRACTOR TO INSTALL NEW POLES, UNDERGROUND STREET LIGHT CABLE BETWEEN POLES, GROUND RODS, RELAYS, AND BOTTOM SECTION OF CABLE GUARD AT DIP (IF APPLICABLE) AND TERMINATE IN HAND HOLE.  
 -MH STAFF TO DISCONNECT AND ISOLATE TEMPORARY OH FEED TO EXISTING POLES, AS WELL AS COMMON AND ENERGIZE NEW POLES FROM NEW UNDERGROUND SOURCE.  
 -CONTRACTOR TO REMOVE OH FEEDS AND REMOVE EXISTING POLES.

COW TENDER  
 19-R-02

PRELIMINARY  
 NOT TO BE USED FOR CONSTRUCTION

REEL NUMBER	MANUFACTURER	MANUFACTURE DATE

CONTACT "CLICK BEFORE YOU DIG MANITOBA" AT  
[ClickBeforeYouDigMB.com](http://ClickBeforeYouDigMB.com)  
 THREE FULL WORKING DAYS  
 PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING WATER, WASTEWATER, LAND DRAINAGE UTILITIES AND MANITOBA HYDRO UTILITIES



DATE	2019-03-21	REVISIONS	BY	CHKD.	APP.
DRAWING NUMBER		REFERENCE DRAWINGS			
		WINNIPEG UGS APPROVAL			
DRAWN	T.B.	CHECK			
SCALE	1:500				

FOR MICROFILM USE ONLY