

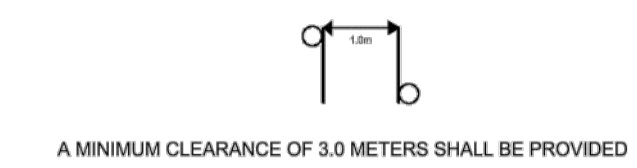
NOTES :

CONSTRUCTION STANDARDS

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

CITY OF WINNIPEG REQUIREMENTS:

WATER AND WASTE DEPARTMENT APPROVAL SUBJECT TO THE FOLLOWING NOTES:
 A MINIMUM CLEARANCE OF 1000 MILLIMETERS SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OF SEWERMAIN PIPE AND THE TOP OF THE PROPOSED WORKS OR
 A MINIMUM CLEARANCE OF 500 MILLIMETERS SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN PIPE
 A MINIMUM LATERAL CLEARANCE OF 1.0 METER SHALL BE PROVIDED BETWEEN THE NEAREST EDGE OF THE PROPOSED WORKS AND THE NEAREST EDGE OF ANY EXISTING WATERMAIN, WATERMAIN VALVE, HYDRANT, SEWERMAIN OR SEWER MANHOLE.



REEL NUMBER	MANUFACTURER	MANUFACTURE DATE

AUTHORITY	NOTIFIED	NOT REQUIRED	OBTAINED
DISTRICT	X	X	?
S.C.C.	X	X	
EASEMENTS	X	X	
GAS	X	X	
M.T.S.	X	X	
SHAW	X	X	
RAILWAY	X	X	
DEPT OF HIGHWAYS	X	X	
CITY OF WINNIPEG	X	X	?

CONTACT	NAME	PHONE
DESIGN	NICK WIELER	284-8100 ext.1232
DISTRICT ENG TECH	JILL SITAR	360-5718
ENERGY SERVICES ADVISOR	DARRYL STOCKI	360-7715
LIG CONSTRUCTION	BILL AMMETER	981-8356
OIH CONSTRUCTION	WAYNE IRELAND	771-5212
CUSTOMER CONTRACT	BOB FOUGERE	360-7159
CONNECTIONS	ALVARO SILVA	360-6214
TEMP. STRINGING	TERRY TABAK	360-7521

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

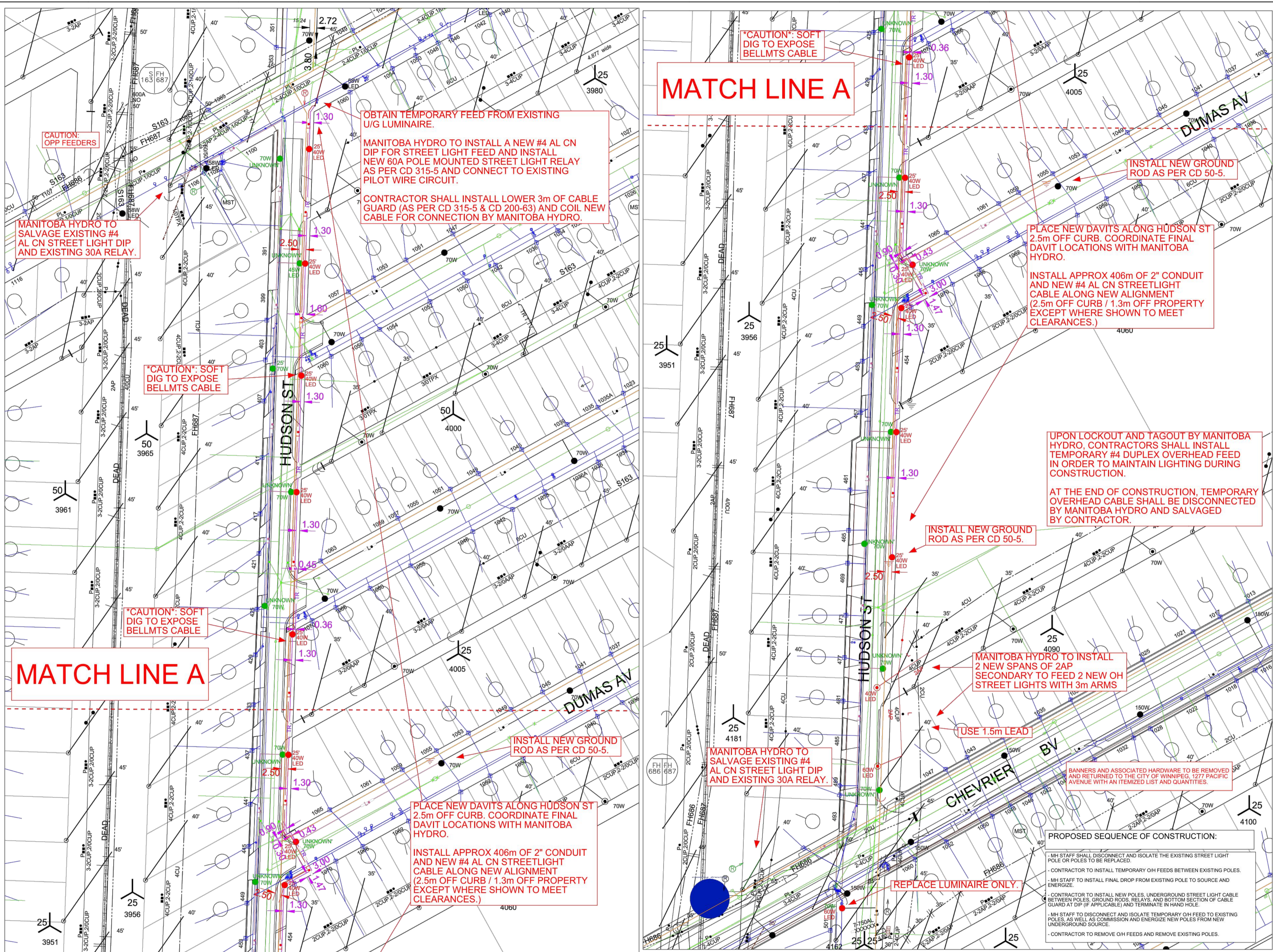
REMOVED			
Quantity	Fixture Type	Wattage	Pole Type
13	HPS	70	EXCLUSIVE

INSTALLED			
Quantity	Fixture Type	Wattage	Pole Type
10	LED	40	EXCLUSIVE
1	LED	60	EXCLUSIVE
1	LED	40	SHARED
1	LED	60	SHARED

LED CONVERSION CHART		
HPS WATTAGE	EQUIVALENT LED WATTAGE	CATALOG NUMBER
100	73	ERS10C3E1540
150	95	ERS10C3E1740
250	138	ERS20H3E1540
400	209	ERS30N3E1540

PROPOSED SEQUENCE OF CONSTRUCTION:

- MH STAFF SHALL DISCONNECT AND ISOLATE THE EXISTING STREET LIGHT POLE OR 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 COMMISSION AND ENERGIZE NEW POLES FROM NEW UNDERGROUND SOURCE.
- CONTRACTOR TO REMOVE OH FEEDS AND REMOVE EXISTING POLES.



MATCH LINE A

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OBTAIN TEMPORARY FEED FROM EXISTING U/G LUMINAIRE.
 MANITOBA HYDRO TO INSTALL A NEW #4 AL CN DIP FOR STREET LIGHT FEED AND INSTALL NEW 60A POLE MOUNTED STREET LIGHT RELAY AS PER CD 315-5 AND CONNECT TO EXISTING PILOT WIRE CIRCUIT.
 CONTRACTOR SHALL INSTALL LOWER 3m OF CABLE GUARD (AS PER CD 315-5 & CD 200-63) AND COIL NEW CABLE FOR CONNECTION BY MANITOBA HYDRO.

MANITOBA HYDRO TO SALVAGE EXISTING #4 AL CN STREET LIGHT DIP AND EXISTING 30A RELAY.

CAUTION: SOFT DIG TO EXPOSE BELLMTS CABLE

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INSTALL NEW GROUND ROD AS PER CD 50-5.

PLACE NEW DAVITS ALONG HUDSON ST 2.5m OFF CURB. COORDINATE FINAL DAVIT LOCATIONS WITH MANITOBA HYDRO.

INSTALL APPROX 406m OF 2" CONDUIT AND NEW #4 AL CN STREETLIGHT CABLE ALONG NEW ALIGNMENT (2.5m OFF CURB / 1.3m OFF PROPERTY EXCEPT WHERE SHOWN TO MEET CLEARANCES.)

MANITOBA HYDRO TO SALVAGE EXISTING #4 AL CN STREET LIGHT DIP AND EXISTING 30A RELAY.

INSTALL NEW GROUND ROD AS PER CD 50-5.

UPON LOCKOUT AND TAGOUT BY MANITOBA HYDRO, CONTRACTORS SHALL INSTALL TEMPORARY #4 DUPLEX OVERHEAD FEED IN ORDER TO MAINTAIN LIGHTING DURING CONSTRUCTION.
 AT THE END OF CONSTRUCTION, TEMPORARY OVERHEAD CABLE SHALL BE DISCONNECTED BY MANITOBA HYDRO AND SALVAGED BY CONTRACTOR.

MANITOBA HYDRO TO INSTALL 2 NEW SPANS OF 2AP SECONDARY TO FEED 2 NEW OH STREET LIGHTS WITH 3m ARMS

USE 1.5m LEAD

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

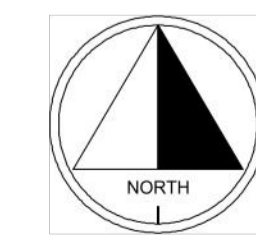
REPLACE LUMINAIRE ONLY.

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

NOTE: INDICATION OF ALL UNDERGROUND UTILITIES IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTACT THE APPLICABLE UTILITIES FOR SPECIFIC PLANT LOCATIONS AND CLEARANCES.

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

INFORMATION PERTAINING TO THE SIZE AND LOCATION OF MANITOBA HYDRO FACILITIES AND INSTALLATIONS IS ILLUSTRATIVE AND SHOULD NOT BE RELIED ON FOR THE PURPOSES OF ANY ACTIVITY BEING CONDUCTED AT OR NEAR THE IDENTIFIED HYDRO INSTALLATIONS. ALL LOCATIONS AND EQUIPMENT MUST BE VERIFIED BY APPROPRIATE HYDRO DISTRICT OFFICES PRIOR TO ANY PHYSICAL ACTIVITY UNDERTAKEN AT OR NEAR HYDRO INSTALLATIONS. A CURRENT WORK CLEARANCE REQUEST FORM CAN BE OBTAINED FROM THE DISTRICT OFFICE AND MUST BE ON SITE PRIOR TO THE COMMENCEMENT OF ANY EXCAVATIONS.



NO.	DATE	REVISION	BY	CKD.	APP.

DRAWING NUMBER	REFERENCE DRAWINGS	DRAWN	NTW
?	C.O.W. APPROVED DRAWING		

CHECK	SCALE	DATE
	1:750	2019 03 11

MANITOBA HYDRO	
DISTRIBUTION PLANNING & DESIGN	
AREA NUMBER	4901
STATION NUMBER	1078
FEEDER NUMBER	FH687
SYSTEM VOLTAGE	2.4/4.16kV
WO# P:31753	NETWORK # 4305742
DISTRICT: FORT GARRY	
2019 STREET LIGHT RENEWAL PROJECTS	
HUDSON ST FROM CLARENCE AVE TO CHEVRIER BLVD	
CONTRACTOR TO REPLACE EXISTING UNDERGROUND STREET LIGHTING PLANT	