

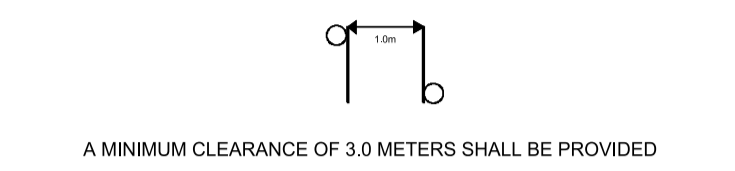
NOTES :

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 OR SEWERMAIN PIPE AND THE TOP OF THE PROPOSED WORKS.
 A MINIMUM CLEARANCE OF 600 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.



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

PROPOSED SEQUENCE OF CONSTRUCTION:

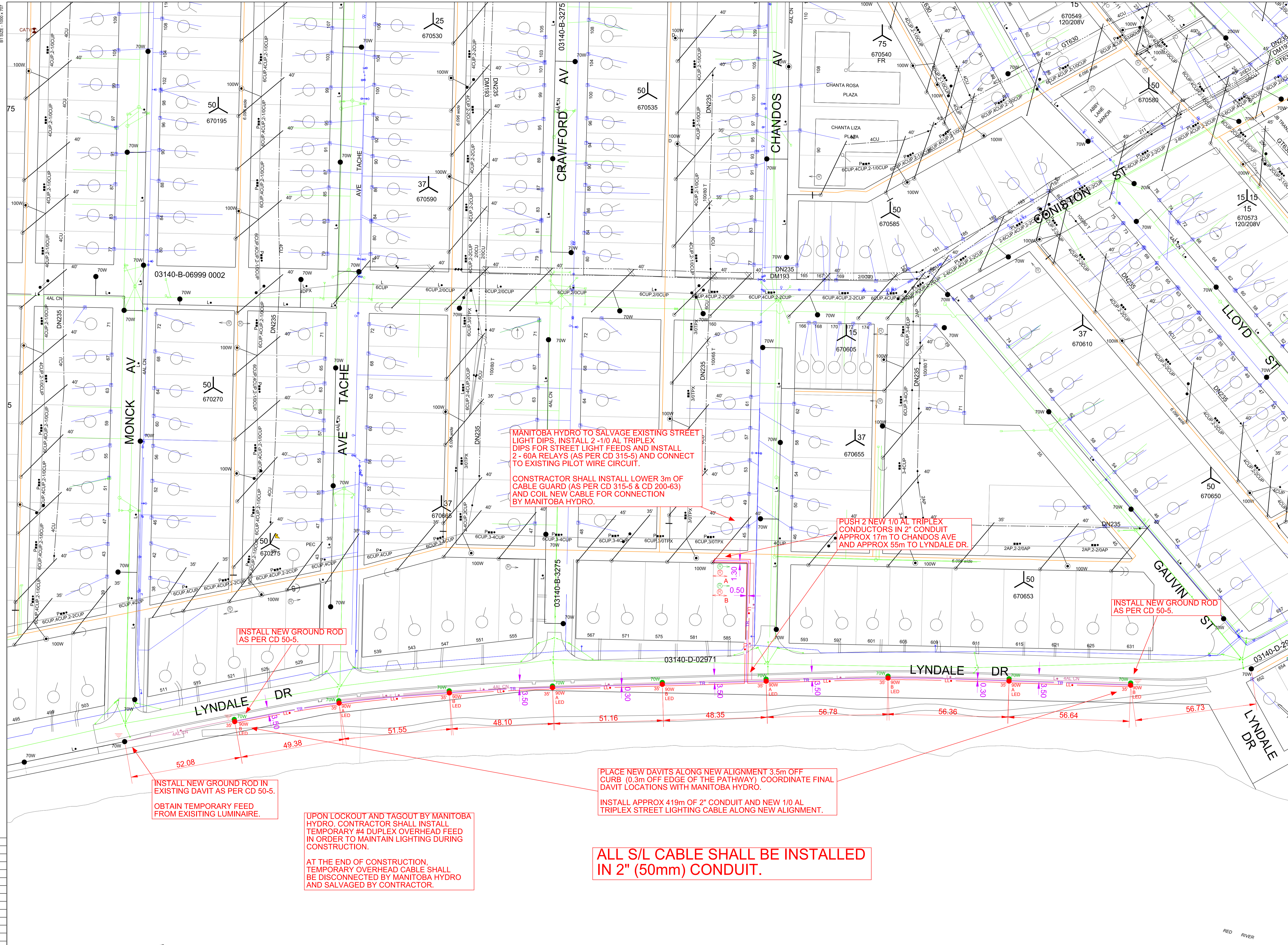
- M1 STAFF SHALL DISCONNECT AND ISOLATE THE EXISTING STREET LIGHT POLE OR POLES TO BE REPLACED.
- CONTRACTOR TO INSTALL TEMPORARY OH FEEDS BETWEEN EXISTING POLES.
- M1 STAFF TO INSTALL FINAL DROP FROM EXISTING POLE TO SOURCE AND ENERGIZE.
- CONTRACTOR TO INSTALL NEW POLES, UNDERGROUND STREET LIGHT CABLE BETWEEN POLES, GROUND RODS, RELAYS, AND BOTTOM SECTION OF CABLE GUARD AT OP IF APPLICABLE AND TERMINATE IN HAND HOLE.
- M1 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.

| CONTACT | NAME | PHONE |
|-------------------------|----------------|--------------------|
| DESIGN | NICK WIELER | 284-8100 ext. 1232 |
| DISTRICT ENG TECH | ROB DENSKA | 360-2924 |
| ENERGY SERVICES ADVISOR | TERRY MCCARTHY | 360-4127 |
| LIG CONSTRUCTION | JAYSON WITT | 803-1165 |
| OH CONSTRUCTION | WAYNE IRELAND | 360-5786 |
| CUSTOMER CONTRACT | RIK PHILLIPS | 360-7018 |
| CONNECTIONS | ALVARO SILVA | 360-6214 |
| TEMP. STRINGING | TERRY TABAK | 360-7521 |

| COLOR | DESCRIPTION |
|---------------|---------------------------------------|
| MAGENTA | PROPOSED TRENCH |
| RED | PROPOSED OBJECT |
| PINK | OBJECT TO BE ABANDONED |
| GREEN | OBJECT TO BE SALVAGED |
| BLACK | EXISTING OBJECT |
| LA ANNOTATION | 1 - RR AL CN STREET LIGHTING CABLE |
| LL ANNOTATION | 1 - 1/0 TRIPLEX STREET LIGHTING CABLE |

COW FILE NO. RW751-2016

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION



MANITOBA HYDRO TO SALVAGE EXISTING STREET LIGHT DIPS, INSTALL 2 - 1/0 AL TRIPLEX DIPS FOR STREET LIGHT FEEDS AND INSTALL 2 - 60A RELAYS (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.

PUSH 2 NEW 1/0 AL TRIPLEX CONDUCTORS IN 2" CONDUIT APPROX 17m TO CHANDOS AVE AND APPROX 55m TO LYNDALE DR.

INSTALL NEW GROUND ROD AS PER CD 50-5.

INSTALL NEW GROUND ROD AS PER CD 50-5.

INSTALL NEW GROUND ROD IN EXISTING DAVIT AS PER CD 50-5.

OBTAIN TEMPORARY FEED FROM EXISTING LUMINAIRE.

UPON LOCKOUT AND TAGOUT BY MANITOBA HYDRO, CONTRACTOR 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.

PLACE NEW DAVITS ALONG NEW ALIGNMENT 3.5m OFF CURB (0.3m OFF EDGE OF THE PATHWAY), COORDINATE FINAL DAVIT LOCATIONS WITH MANITOBA HYDRO.

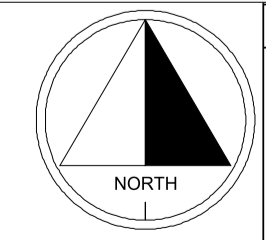
INSTALL APPROX 419m OF 2" CONDUIT AND NEW 1/0 AL TRIPLEX STREET LIGHTING CABLE ALONG NEW ALIGNMENT.

ALL S/L CABLE SHALL BE INSTALLED IN 2" (50mm) CONDUIT.

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

CALL BEFORE YOU DIG!!

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 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.



| DATE | REVISIONS | BY | CHKD. | APP. |
|------|-----------|----|-------|------|
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| DRAWING NUMBER | REFERENCE DRAWINGS | DRAWN | CHECK | SCALE | DATE |
|----------------|--------------------|-------|-------|-------|------|
| | | | | | |

| AREA NUMBER | MANITOBA HYDRO DISTRIBUTION PLANNING & DESIGN |
|----------------|--|
| 5401 | WBS # P:27361 NETWORK # 4304177 |
| STATION NUMBER | DISTRICT: ST. BONIFACE |
| 1007 | 2016 STREET LIGHT RENEWAL PROJECTS |
| FEEDER NUMBER | LYNDALE DR FROM MONCK AVE TO GAUVIN ST. |
| DN235 | CONTRACTOR TO REPLACE EXISTING UNDERGROUND STREET LIGHTING PLANT |
| SYSTEM VOLTAGE | 2.4/4.16 KV |
| DATE | 2016/10/05 |