

NOTE:  
DRAWING SCALE IS APPROXIMATE. VERIFY ALL  
DIMENSIONS AND LOCATIONS OF PROPOSED  
EQUIPMENT WITH OWNER PRIOR TO  
COMMENCEMENT OF WORK.

project project

JOUSSARD CLIMATE STATION  
Joussard, Alberta

drawing design

Electrical - Site Plan, Enlarged  
Site Plan, Single Line Power  
Riser Diagram and Details

designed D.O./J.H. conçu

date April 2014 date

drawn D.O./J.H. dessiné

date April 2014 date

approved D.O. approuvé

date April 2014 date

Tender appel d'offres

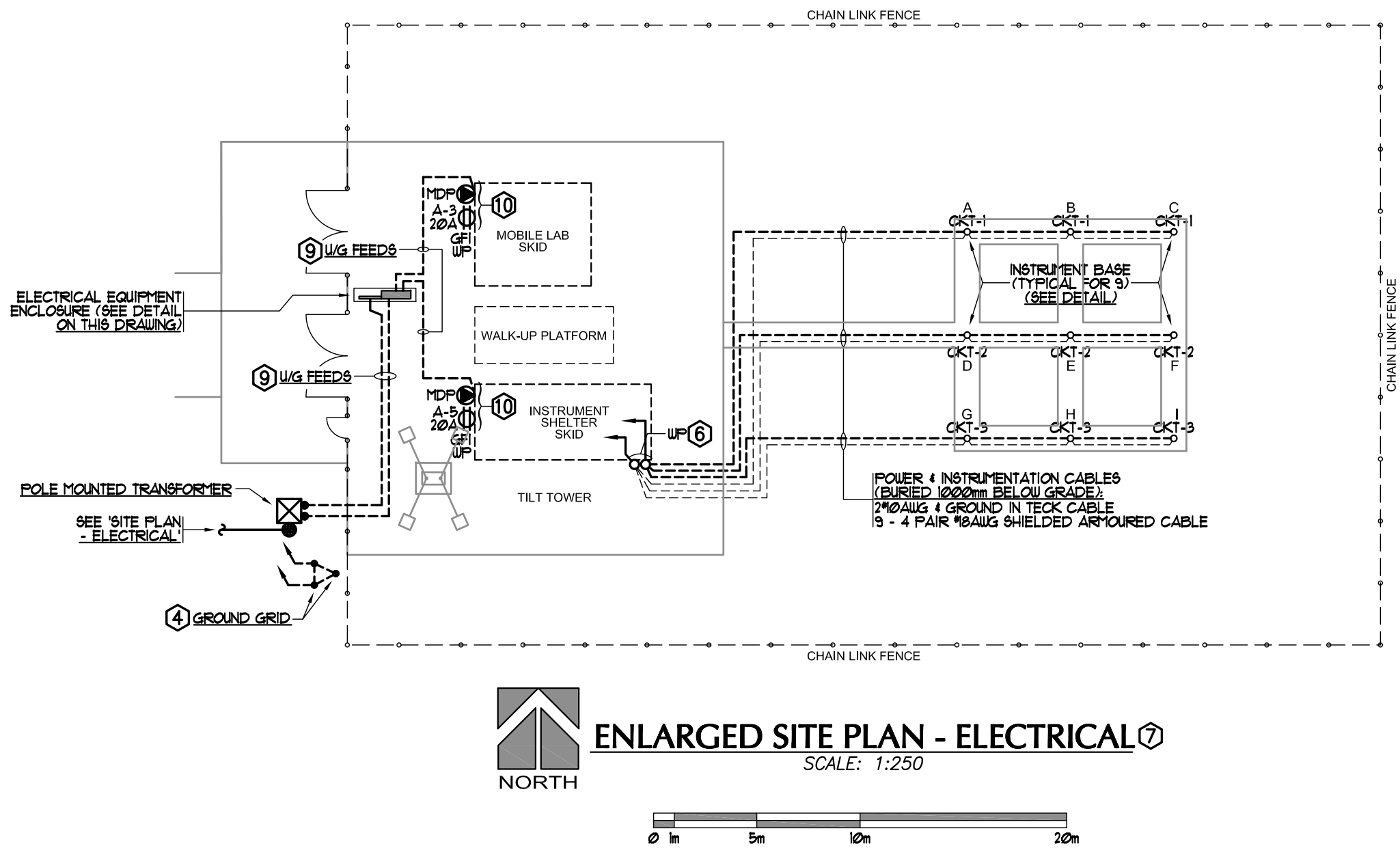
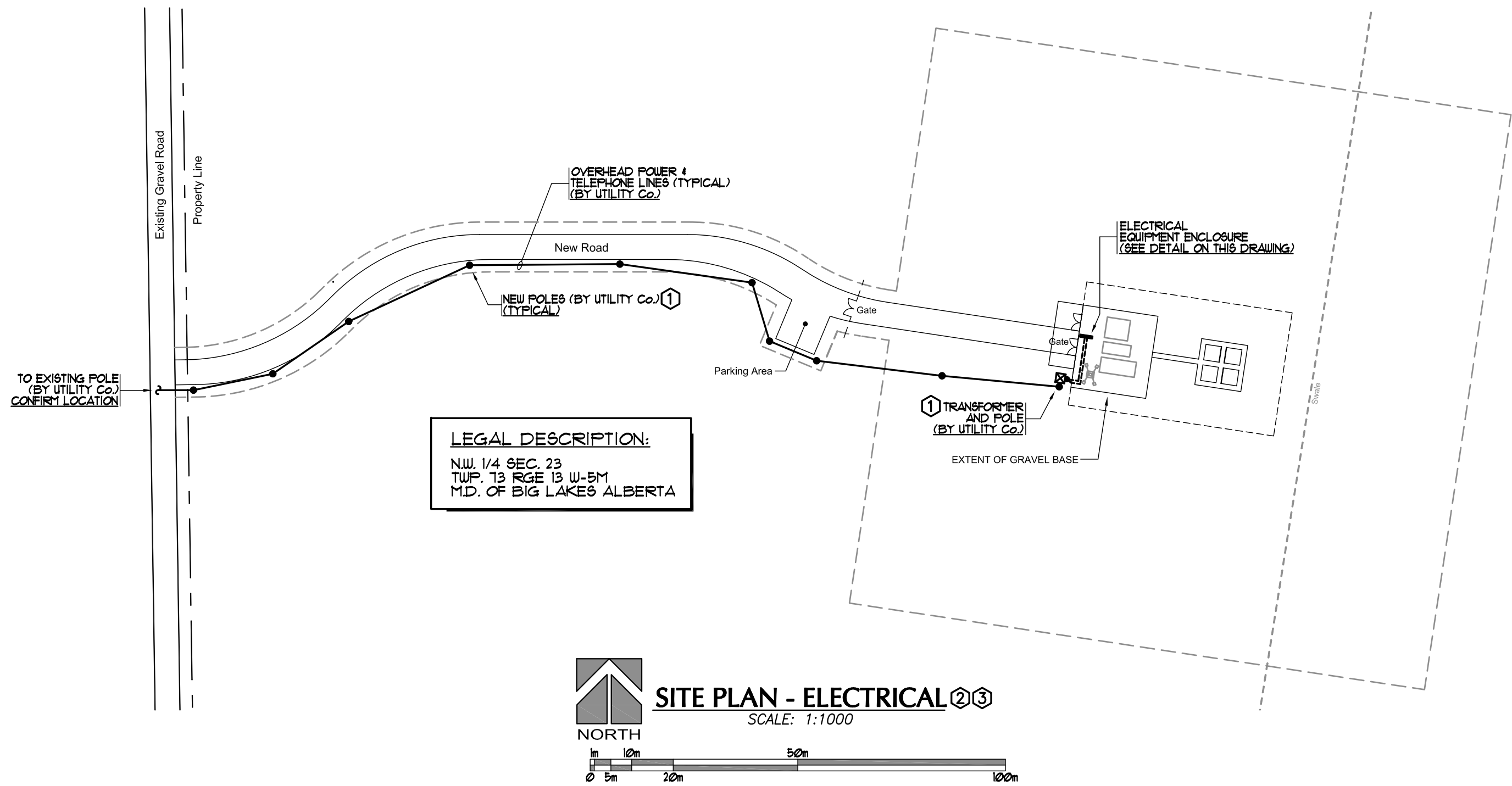
RCMP Project Manager gestionnaire de projet GRC

project number numéro du projet

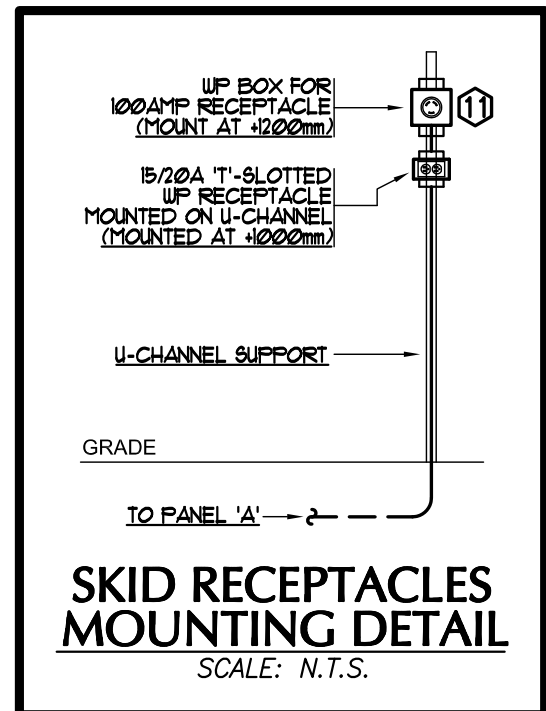
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drawing number numéro de dessin

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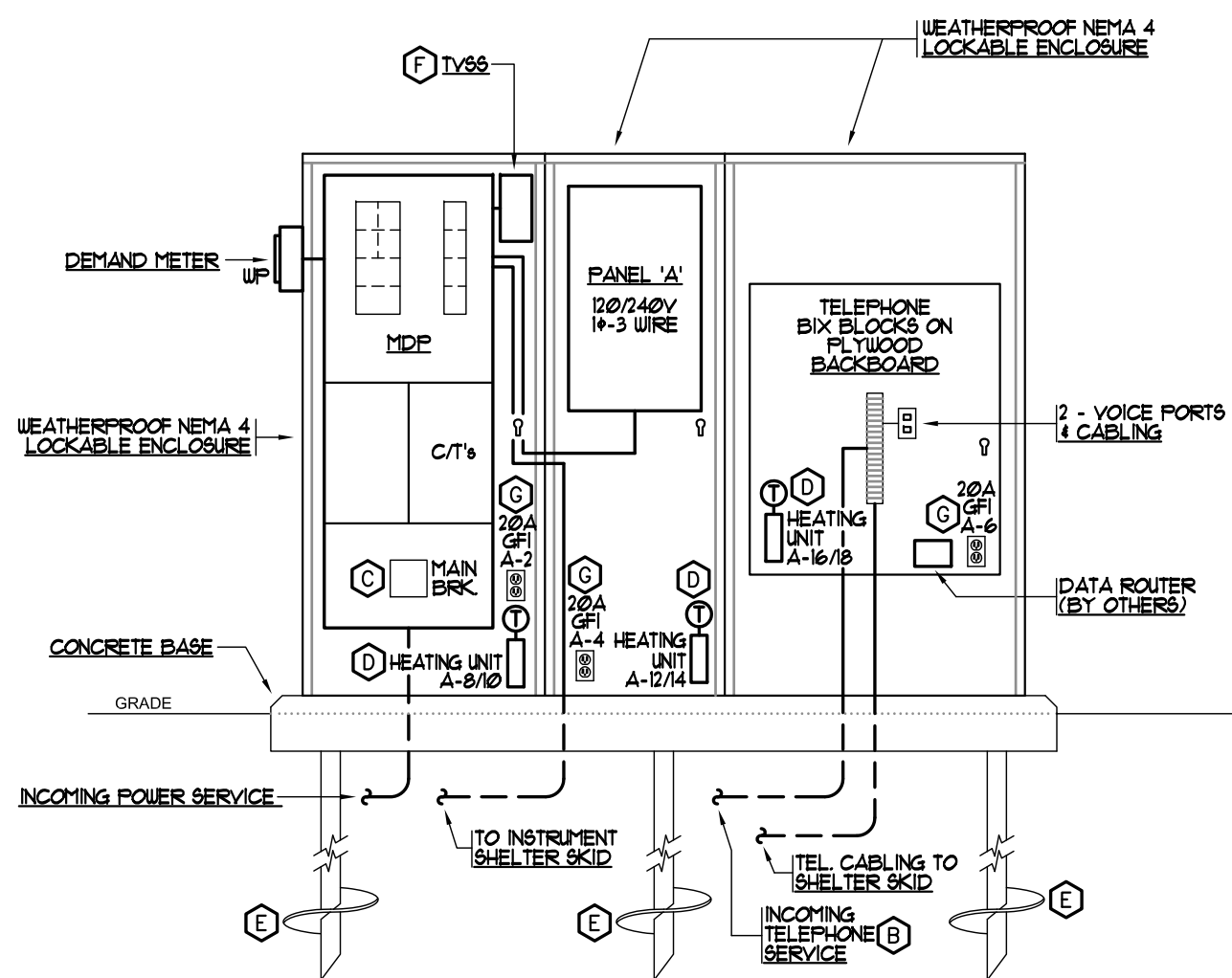


PANEL SCHEDULE
MAIN DISTRIBUTION PANEL 'MDP' 600AMPS, 120/240V-1 $\phi$ -3W, (MOUNTED IN A WEATHERPROOF ENCLOSURE)
1-2P-200A-BRK - PANEL 'A' 1-2P-30A-BRK - TVSS 1-2P-100A-BRK - MOBILE LAB 1-2P-100A-BRK - INSTRUMENT SHELTER SPACES
PANEL 'A' 120/240V-1 $\phi$ -3W, 225AMPS, 42 CIRCUITS, (MOUNTED IN A WEATHERPROOF ENCLOSURE)
3-2P-15A-BRK'S - HEATERS 5-1P-20A-BRK'S - RECEPTACLES 3-1P-15A-BRK'S - SPARES 4-1P-20A-BRK'S - SPARES SPACES
EXISTING INSTRUMENT SHELTER SKID PANEL, 120/240V-1 $\phi$ -3W, 225AMPS
ADD: 3-1P-20A-BRK'S - INSTRUMENT BASES
NOTE: - PROVIDE NEW TYPED PANEL DIRECTORIES.



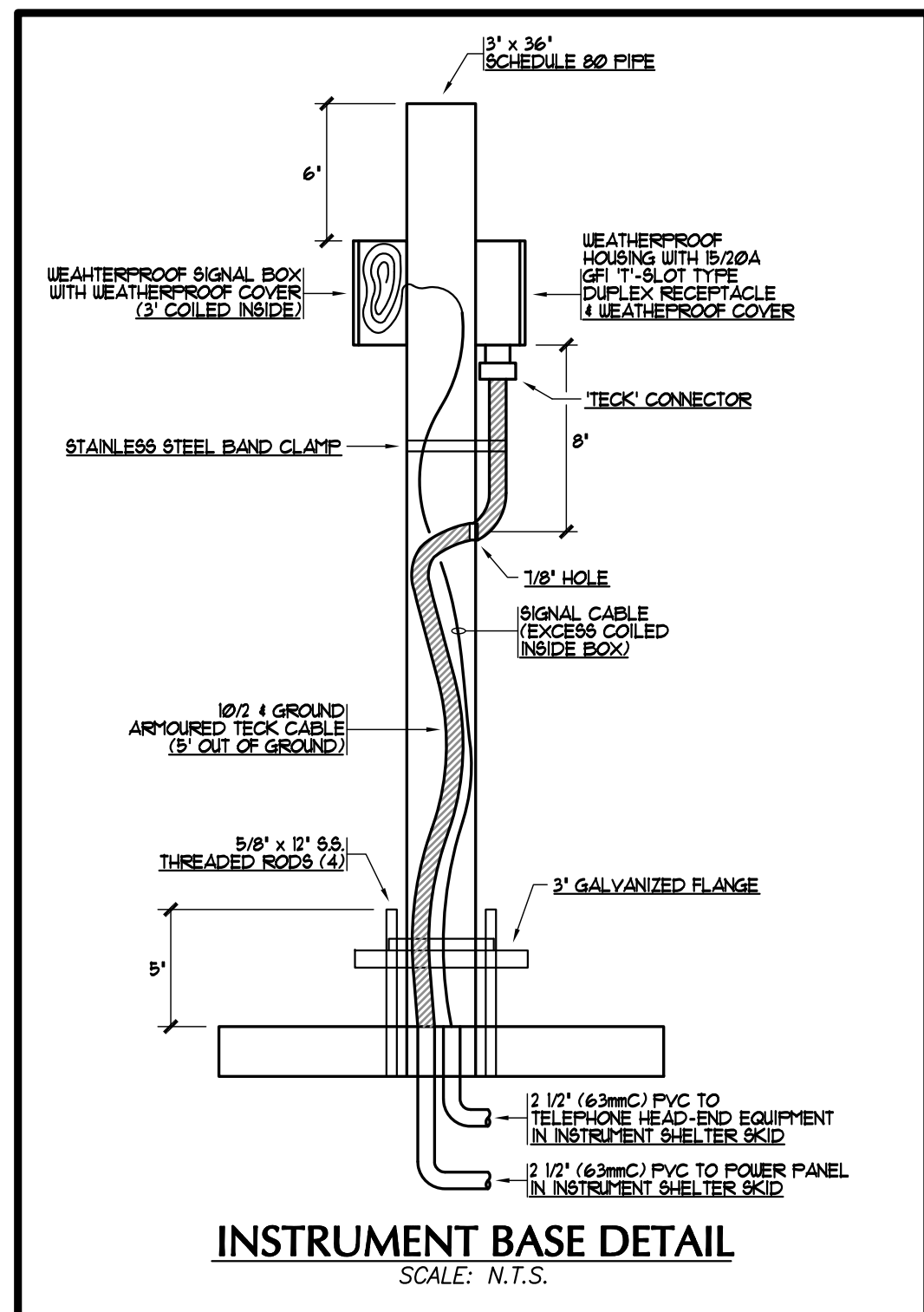
SYMBOLS
OVERHEAD POWER LINES
UNDERGROUND POWER/TELEPHONE FEEDERS
FENCE
ELECTRICAL EQUIPMENT ENCLOSURE
15/20AMP T-SLOTTED SPLIT RECEPTACLE
100AMP RECEPTACLE
MDP MAIN DISTRIBUTION PANEL
WP WEATHERPROOF
GFI GROUND FAULT INTERRUPTER
TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
DRAWING NOTE REFERENCE

NOTES
NEW UTILITY POLES TO BE LOCATED (MINIMUM) 2438mm FROM GRAVEL AREA. CONFIRM POLE HEIGHT WITH OWNER.
COORDINATE WORK WITH UTILITY COMPANY (ATCO ELECTRIC LTD.).
SEE 'SINGLE LINE POWER RISER DIAGRAM' ON THIS DRAWING FOR FEEDER SIZES.
EQUIPMENT ENCLOSURE TO BE GROUNDED AND BONDED TO CANADIAN ELECTRICAL CODE (C.E.C.) REQUIREMENTS.
NOT USED.
WEATHERPROOF JUNCTION BOXES ON BUILDING EXTERIOR FOR POWER AND LOW TENSION. CONFIRM LOCATIONS PRIOR TO ROUGH-IN.
ALL DEVICES AND INSTALLATIONS ARE TO BE WEATHERPROOF AS PER CANADIAN ELECTRICAL CODE (C.E.C.) REQUIREMENTS.
MAINTAIN 3% VOLTAGE DROP.
ALL CONDUITS TO BE LIQUID TIGHT, WEATHERPROOF INSTALLATION.
RECEPTACLES FOR MOBILE LAB & INSTRUMENT SHELTER MOUNTED ON INSTRUMENT SUPPORT RACK. SEE 'SKID RECEPTACLES MOUNTING DETAIL' ON THIS DRAWING.
WEATHERPROOF PINS/SLEEVE 3-POLE, 4-WIRE RECEPTACLE 41000W & 15000W BACKBOX. 2P-100AMPS - 120/240V-1 $\phi$ -4 WIRE.

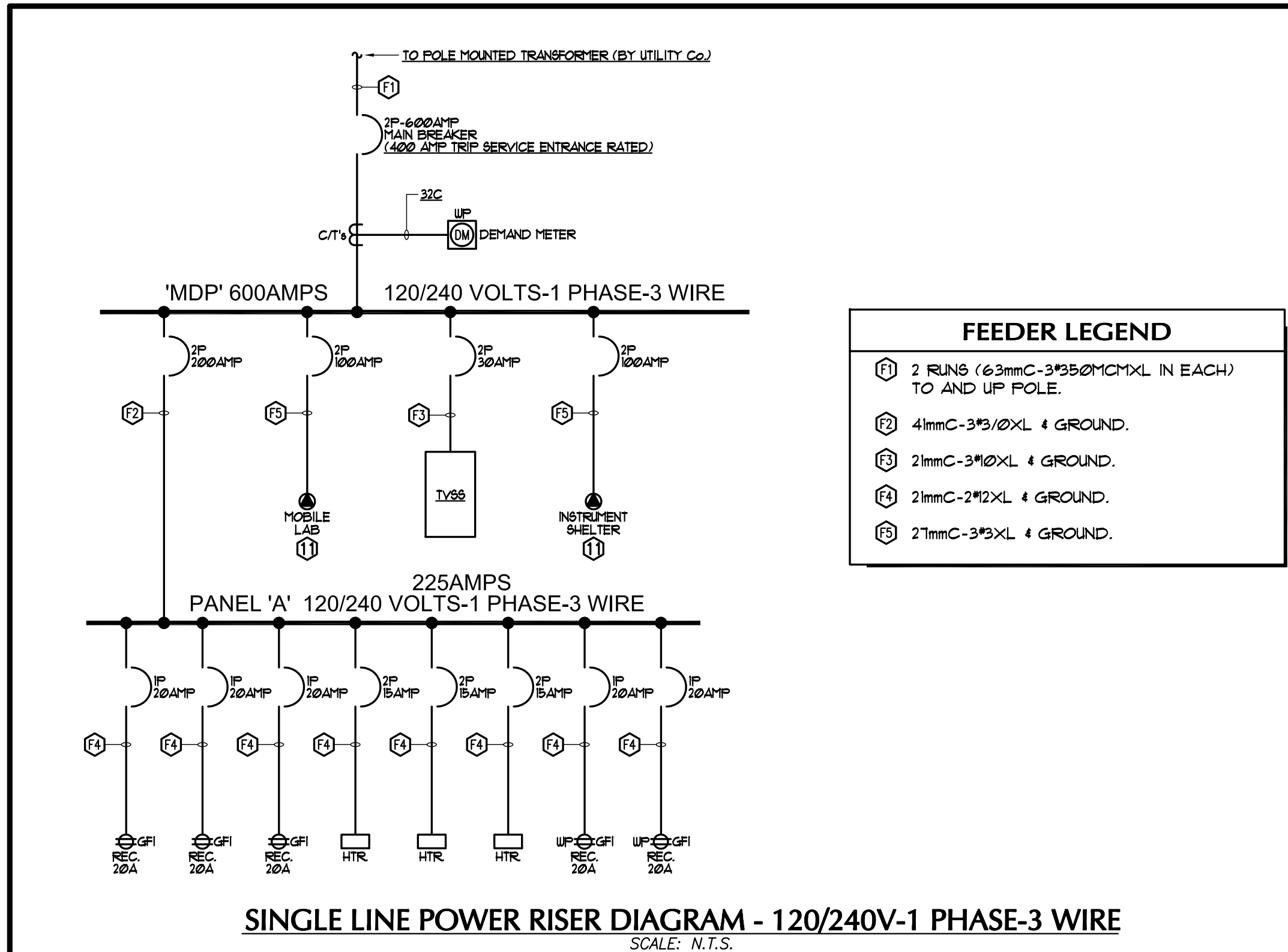


NOTES
SEE 'SINGLE LINE POWER RISER DIAGRAM' ON THIS DRAWING FOR FEEDER SIZES.
PROVIDE 5mm CONDUIT c/w FILLWIRE FROM TELEPHONE BACKBOARD TO POLE RISER. COORDINATE WITH TELUS.
MAIN BREAKER - 2P-600AMP FRAME - 400AMP TRIP, 120/240V-1 $\phi$ -3 WIRE.
HEATING UNIT c/w THERMOSTAT, SIZE AS RECOMMENDED BY MANUFACTURER. ALLOW FOR 2000WATTS, 240VOLTS, SINGLE PHASE.
SCREW FILES.
TRANSIENT VOLTAGE SURGE SUPPRESSOR. CONFIRM CONNECTION REQUIREMENTS.
15/20A T-SLOTTED WEATHERPROOF 'GFI' TYPE RECEPTACLES. PROVIDE SEPARATE CIRCUIT FOR EACH RECEPTACLE.

ELECTRICAL EQUIPMENT ENCLOSURE DETAIL  
SCALE: N.T.S.



INSTRUMENT BASE DETAIL  
SCALE: N.T.S.



SINGLE LINE POWER RISER DIAGRAM - 120/240V-1 PHASE-3 WIRE  
SCALE: N.T.S.