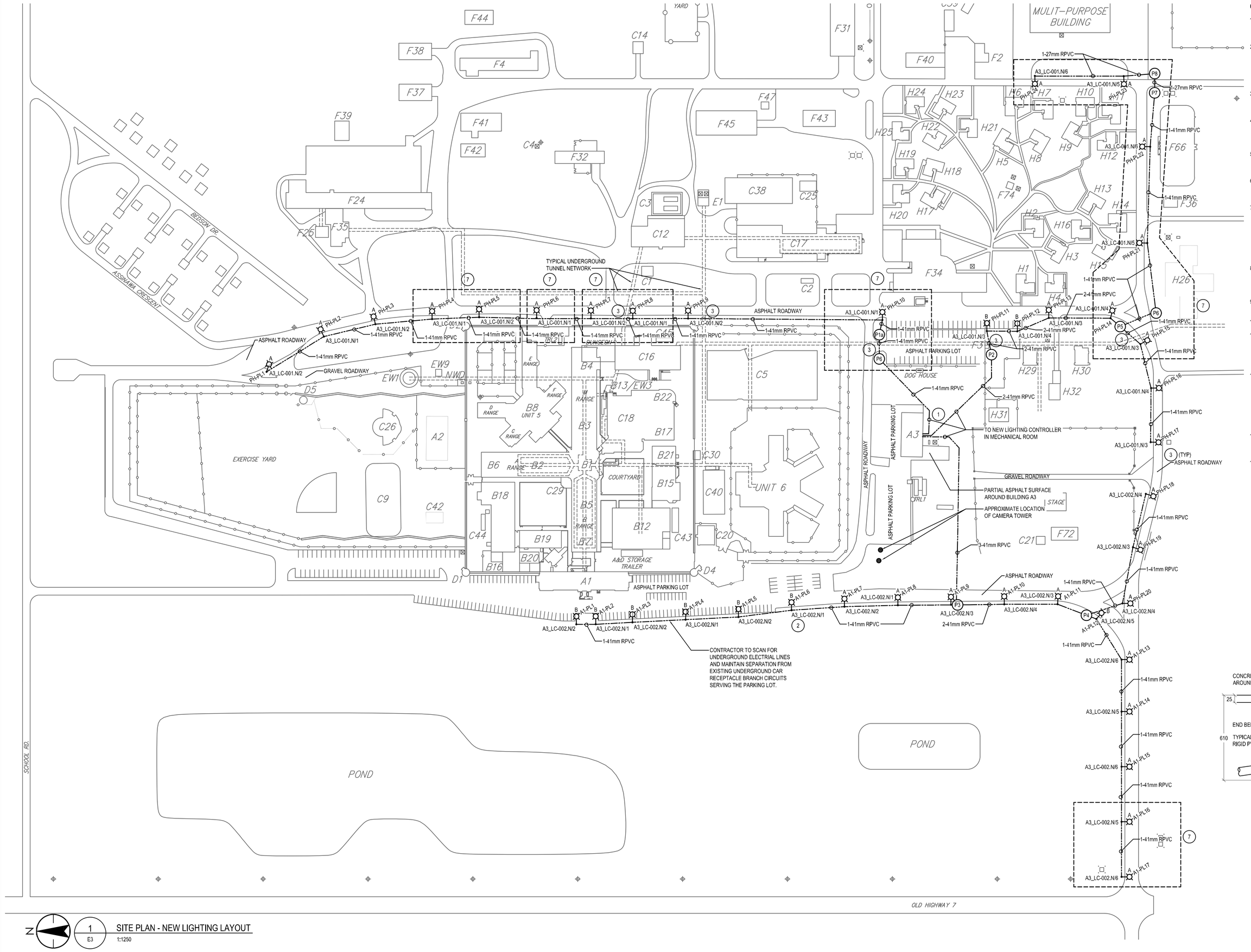


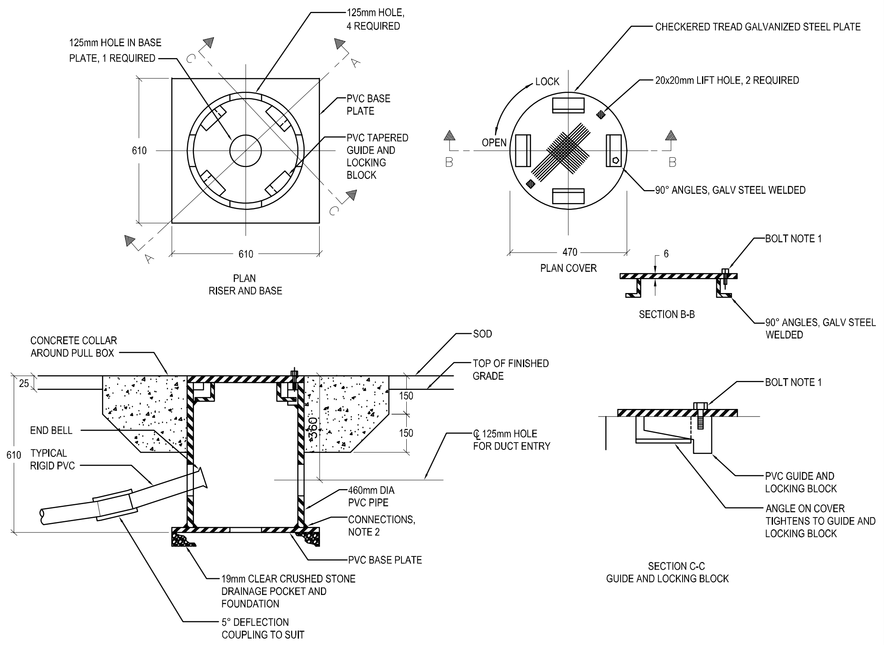
1 E3 SITE PLAN - NEW LIGHTING LAYOUT
1:1250

GENERAL NOTES:

1. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND PROPOSE A CONSTRUCTION WORK SEQUENCE SCHEDULE PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION.
2. CONTRACTOR TO CONDUCT ALL UTILITY AND SITE SERVICE LOCATES PRIOR TO PROCEEDING WITH EXCAVATION. LOCATES TO INCLUDE POWER FEEDERS, COMMUNICATION AND SECURITY SYSTEMS. PROVIDE 10 WORKING DAYS' NOTICE TO DEPARTMENTAL REPRESENTATIVE FROM DATE OF PROPOSED WORK COMMENCEMENT. COORDINATE AND ARRANGE WITH DEPARTMENTAL REPRESENTATIVE FOR SCHEDULING OF UTILITY LOCATES.
3. UPON COMPLETION OF SITE LOCATES PROVIDE A WRITTEN LIST IDENTIFYING ANY AREAS OF CONFLICTS ALONG WITH RECOMMENDATIONS FOR CHANGES TO THE WORK SEQUENCE FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE.
4. BASED ON SITE LOCATE DATA IDENTIFY ALL SHALLOW SERVICE CROSSINGS WITHIN 1.4m DEPTH FROM SURFACE BY HYDRO VACUUM EXCAVATION OR SOFT DIGGING (DAY LIGHTING) IN THE PATH OF CONSTRUCTION PRIOR TO COMMENCEMENT OF WORK.
5. CONTRACTOR TO REMEDIATE ALL DISTRIBUTED AREAS WITHIN THE SCOPE OF THIS PROJECT AND RETURN TO ORIGINAL CONDITION. CONTRACTOR TO CARRY ALL COSTS ASSOCIATED WITH REMEDIATION.
6. CONTRACTOR TO SITE VERIFY BOLT PATTERS FOR REPLACEMENT LAMP STANDARDS. CONTRACTOR TO PROVIDE ADAPTOR PLACES WHERE REQUIRED AT NO ADDITIONAL CHARGE TO THE DEPARTMENT.
7. NEW LIGHTING INSTALLATION TO BE OPERATIONAL PRIOR TO DEMOLITION OF EXISTING POLES. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING SITE ROADWAY LIGHTING LEVELS FOR THE COURSE OF CONSTRUCTION. PROVIDE TEMPORARY ROADWAY LIGHTING (MATCH DAILY OPERATING SCHEDULE OF EXISTING OPERATIONAL LIGHTS ONLY. REFER TO KEY NOTE 7. SHEET E01) IN AREAS OF CONSTRUCTION FOR THE DURATION WHEN THE OLD LAMP STANDARDS ARE DE-ENERGIZED AND NEW/ RE-USED LAMP STANDARDS ARE ENERGIZED.
8. CONTRACTOR TO PROVIDE AND INSTALL NEW HAND HOLE COVERS FOR EXISTING POLES WITH MISSING HAND HOLE COVERS. REFER TO ELECTRICAL LIGHT POLE SUMMARY TABLE FOR QUANTITY AND POLE TAG FOR EXISTING POLES THAT REQUIRE NEW HAND HOLES.
9. CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL TETHERS ON EACH HAND HOLE COVER (OLD AND NEW). REFER TO DETAIL 9, SHEET E4.
10. REFERENCE SINGLE LINE DIAGRAM ON DETAIL 5, SHEET E4
11. DUCT ROUTING AND PULL BOX LOCATIONS ON DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO ROUT DUCTS IN THE FIELD TO MINIMIZE IMPACT TO TREES, GRAVEL OR ASPHALT SURFACES. DUCT AND PULL BOX SIZES SHOWN ARE MINIMUM REQUIREMENTS CONTRACTOR TO UP-SIZE TO SUITE FIELD CONDITIONS.
12. CONTRACTOR RESPONSIBLE FOR ALL LOCATES INCLUDING ELEVATION TO TOP OF NEW LIGHT POLE CONCRETE BASE. NEW LIGHT POLE BASE ALIGNMENT TO FOLLOW EXISTING LIGHT POLE BASE OFF SET ALONG ROADWAYS. LIGHT POLE BASE ELEVATION TO BE 400MM ABOVE EDGE OF ADJACENT ROADWAY, WHERE EXISTING BASE IS PARTIALLY DEMOLISHED AND ABANDONED, PROVIDE NEW POLE BASE 1000MM FROM EDGE OF EXISTING POLE BASE TO EDGE OF NEW POLE BASE. WHEN FACING THE ROW OF POLES FROM THE ROAD, NEW POLE BASE TO BE INSTALLED TO THE RIGHT HAND SIDE OF ABANDONED BASE.
13. LOCATIONS OF IN-GROUND PULL BOXES ARE APPROXIMATE. INSTALL IN NON-VEHICULAR AREA. PULL BOXES ARE MEANT FOR FEEDER PULLING ONLY. SPLICING IN BELOW GRADE PULL BOXES IS NOT PERMITTED.
14. WHERE POLES ARE RE-USED CONTRACTOR TO REMOVE ANY AUXILIARY JUNCTION BOXES AND PROVIDE APPROPRIATE FILLER FOR OPENINGS IN RE-USED POLES.

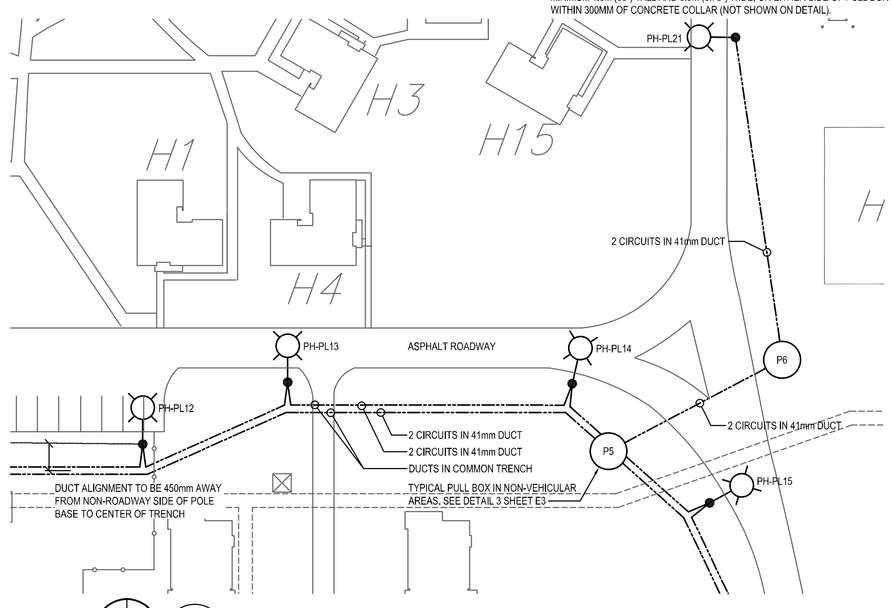
KEY NOTES:

1. NEW LIGHTING RELAY PANEL AND BREAKER TO BE INSTALLED IN BUILDING A-3 MECHANICAL ROOM. REFER TO SINGLE LINE DIAGRAM AND LARGE SCALE PLANS ON DRAWING E4, DETAILS 5 AND 1 FOR FURTHER DETAILS.
2. PROVIDE ALTERNATING CIRCUITS TO LIGHT POLES, REFER TO LOW VOLTAGE LIGHTING RELAY SCHEDULE FOR LIGHTING CIRCUITS AND RELAY ADDRESSING. REFER TO LARGE SCALE DUCT ROUTING DETAIL 2 ON E3.
3. LOCATE EXISTING TUNNEL. SOFT DIG TO THE TOP OF TUNNEL SURFACE. PROVIDE CONCRETE ENCASEMENT OVER NEW DUCT CROSSING REFER TO TYPICAL TUNNEL CROSSING DETAIL 8, DRAWING SHEET E4.
4. REFER TO ELECTRICAL LIGHT POLE SUMMARY TABLE FOR QUANTITY AND CORRESPONDING POLE TAG ON DETAIL 1, THIS SHEET. INSTALL EXISTING SALVAGED POLE (LIGHT STANDARD). PROVIDE NEW LUMINAIRE AND WIRING. INSTALL EXISTING POLE WITH NEW LUMINAIRE AND WIRING ON EXISTING CONCRETE BASE. REFER TO TYPICAL BASE DETAIL 11 ON E4 FOR CONDUIT REQUIREMENTS. PROVIDE NEW PAINTED TAGS ON EACH POLE. TAGS TO BE STENCILED IN 150MM (6") HIGH. BY 100MM (4") WIDE. PAINTED WHITE. MINIMUM OF EIGHT (8) CHARACTERS LONG, ORIENTED VERTICALLY ALONG THE POLE. TAGS TO FACE THE ROAD AND BE MOUNTED 2000MM ABOVE EDGE OF ADJACENT ROAD HEIGHT. FINAL TAG LABELS TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
5. REFER TO ELECTRICAL LIGHT POLE SUMMARY TABLE FOR QUANTITY AND CORRESPONDING POLE TAG ON DETAIL 1, THIS SHEET. PROVIDE NEW LUMINAIRE AND LIGHT STANDARD. REFER TO LIGHT STANDARD BASE DETAIL 6 ON E4. PROVIDE NEW WIRING AS NOTED. INSTALL NEW POLE ON NEW CONCRETE BASE 1000mm BESIDE EXISTING BASE. SEE GENERAL NOTE 12, SHEET E3. COORDINATE BASE PLATE DETAIL PRIOR TO ORDERING LIGHT STANDARD. PROVIDE PAINTED POLE TAGS ON EACH POLE. TAGS TO BE STENCILED IN 150MM (6") HIGH. BY 100MM (4") WIDE. PAINTED WHITE. MINIMUM OF EIGHT (8) CHARACTERS LONG, ORIENTED VERTICALLY ALONG THE POLE. TAGS TO FACE THE ROAD AND BE MOUNTED 2000MM ABOVE EDGE OF ADJACENT ROAD HEIGHT. FINAL TAG LABELS TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
6. REFER TO ELECTRICAL LIGHT POLE SUMMARY TABLE FOR QUANTITY AND CORRESPONDING POLE TAG ON DETAIL 1, THIS SHEET. INSTALL EXISTING SALVAGED POLE (LIGHT STANDARD). PROVIDE NEW LUMINAIRE AND WIRING. NEW CONCRETE BASE TO BE INSTALLED 1000MM BESIDE EXISTING BASE, SEE GENERAL NOTE 12, SHEET E3. INSTALL EXISTING POLE ON NEW CONCRETE BASE. REFER TO LIGHT STANDARD BASE DETAIL 6 ON DRAWING SHEET E4. COORDINATE BOLT PATTERN WITH EXISTING POLE. PROVIDE PAINTED TAGS ON EACH POLE. TAGS TO BE STENCILED IN 150MM (6") HIGH. BY 100MM (4") WIDE. PAINTED WHITE. MINIMUM OF EIGHT (8) CHARACTERS LONG, ORIENTED VERTICALLY ALONG THE POLE. TAGS TO FACE THE ROAD AND BE MOUNTED 2000MM ABOVE EDGE OF ADJACENT ROAD HEIGHT. FINAL TAG LABELS TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
7. OUTLINED REGION IDENTIFIES KNOWN SHALLOW SERVICES. CONTRACTOR TO VERIFY, ON SITE, ALL LOCATIONS THAT MAY AFFECT SCOPE OF WORK. USE SOFT DIGGING TECHNIQUES WHEN WORKING IN THE REGION INDICATED TO MITIGATE THE POSSIBILITY OF DAMAGE. ANY DAMAGED SERVICES TO BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



3 E3 IN GROUND PULL BOX DETAIL
N.T.S.
NOTES:

1. 6mm DIA x 25mm STAINLESS STEEL LOCKING BOLT TO BE INSERTED IN DRILLED AND TAPPED HOLE IN GUIDE AND LOCKING BLOCK, 1 ONLY.
2. ALL PVC CONNECTIONS TO BE DONE USING FACTORY APPLIED PVC WELD PROCESS.
3. ALL DIMENSIONS ARE IN MILLIMETERS OR METERS UNLESS OTHERWISE SHOWN. DO NOT SCALE.
4. PROVIDE TWO (2) FIBERGLASS REINFORCED COMPOSITE UTILITY MARKERS, MINIMUM 1.6M (66") TALL AND 0.9M (3.75") WIDE, ON EITHER SIDE OF PULL BOX WITHIN 300MM OF CONCRETE COLLAR (NOT SHOWN ON DETAIL).



2 E3 TYPICAL WIRE/DUCT ROUTING - LARGE SCALE DETAIL
1:500

NEW LIGHTING LUMINAIRE SCHEDULE

TYPE	FIXTURE DESCRIPTION	DISTRIBUTION TYPE	LAMP TYPE	MANUFACTURER A	CATALOGUE No. A	MANUFACTURER B	CATALOGUE No. B	MANUFACTURER C	CATALOGUE No. C	VOLTS	WATTS	NOTES
A	POLE MOUNTED EXTERIOR AREA LIGHT @ 9.1m (30FT)	TYPE II	LED	AMERICAN ELECTRIC LIGHTING	ATB0 20BLEDE10 347 R2 5K	EATON-McGRAW	GLEON-AF-02-LED-347-T2-7050-1200	GARDCO	ECF-S-32L-1A-CW-G2-AR-2-347	347V	71W	1,2,3,4
B	POLE MOUNTED EXTERIOR AREA LIGHT @ 9.1m (30FT)	TYPE III	LED	AMERICAN ELECTRIC LIGHTING	ATB0 20BLEDE10 347 R3 5K	EATON-McGRAW	GLEON-AF-02-LED-347-T3-7050-1200	GARDCO	ECF-S-32L-1A-CW-G2-AR-3-347	347V	71W	1,2,3,4

NOTES:

1. LUMINAIRE TO COME WITH ADJUSTABLE TENON INSERTION WHERE EXISTING POLE IS BEING REUSED.
2. LUMINAIRE EPA RATING TO BE A MAXIMUM OF 0.80SQ.FT.
3. WHERE NEW POLES ARE USED ON EXISTING CONCRETE BASE, CONFIRM BOLT PATTERN AND ADAPTOR PLATE REQUIREMENT FOR EACH POLE. PROVIDE SHOP DRAWINGS CONFIRMING COMPATIBILITY OF POLE BOLT PATTERN WITH POLE BASE IN EACH CASE FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE.
4. LUMINAIRES TO BE: MINIMUM IP66 RATED, OPERATING TEMPERATURE -40 DEGREES CELSIUS TO +40 DEGREES CELSIUS, COMPLETE WITH 7-PIN RECEPTACLE (ANSI C136.41).

ELECTRICAL LIGHT POLE - SUMMARY

LAMP STAND. TAG	HAND HOLE COVER	DRAWING KEY NOTES
A1-PL1		4
A1-PL2		5
A1-PL3	PROVIDE NEW	4
A1-PL4		4
A1-PL5		5
A1-PL6		4
A1-PL7		5
A1-PL8		4
A1-PL9		4
A1-PL10		5
A1-PL11		5
A1-PL12		5
A1-PL13		4
A1-PL14		4
A1-PL15		5
A1-PL16		5
A1-PL17		4
PH-PL1		5
PH-PL2		4
PH-PL3		5
PH-PL4		5
PH-PL5		5
PH-PL6		4
PH-PL7		6
PH-PL8		6
PH-PL9		6
PH-PL10		5
PH-PL11		4
PH-PL12		5
PH-PL13		5
PH-PL14	PROVIDE NEW	4
PH-PL15		5
PH-PL16		5
PH-PL17		5
PH-PL18		4
PH-PL19	PROVIDE NEW	4
PH-PL20		5
PH-PL21		5
PH-PL22		4
PH-PL23		4
PH-PL24		4

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

PROVINCE OF MANITOBA
Manoj S. SHARMA
Member
40654
REGISTERED PROFESSIONAL ENGINEER

DO NOT SCALE DRAWINGS

Revision/ Revision	Description/Description	Date/Date
4	ISSUED FOR TENDER	19/08/16
3	ISSUED FOR 99% REVIEW	19/07/22
2	ISSUED FOR 90% REVIEW	19/07/16
1	REVISED AND REISSUED FOR 50% REVIEW	19/06/07
0	ISSUED FOR 50% REVIEW	19/03/05

Client/client

CORRECTION SERVICE CANADA
STONY MOUNTAIN INSTITUTION

STONY MOUNTAIN INSTITUTION
STONY MOUNTAIN, MANITOBA

Project title/Titre du projet
CORRECTION SERVICE CANADA
STONY MOUNTAIN INSTITUTION
STONY MOUNTAIN, MANITOBA

SITE, PARKING LOT LIGHTING ELECTRICAL SYSTEM UPGRADE

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Client/client

Drawing title/Titre du dessin

ELECTRICAL SITE PLAN - NEW LAYOUT, SCHEDULES AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.100856.001	E3 OF 4	3

AO – PWGSC – AO – 11859X841

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