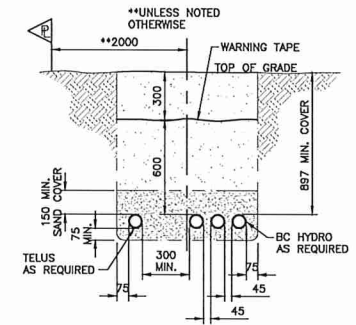


# NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH B.C. HYDRO SPECIFICATIONS #1323 ELECTRICAL DISTRIBUTION STANDARDS AND PROJECT DRAWINGS WHICH WILL TAKE PRECEDENCE.
2. DEVELOPER TO DO ALL SURVEY AND LAYOUT WORK AND PROVIDE GRADE STAKES PRIOR TO CONSTRUCTION.
3. B.C. HYDRO'S UNDERGROUND INSPECTOR MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION.
4. B.C. HYDRO'S INSPECTOR MAY DETERMINE THE NEED FOR ADDITIONAL CONCRETE ENCASEMENTS, RETAINING WALLS OR PROTECTION POSTS WHERE REQUIRED TO PROTECT HYDRO EQUIPMENT.
5. CONCRETE ENCASEMENTS TO BE FORMED AS DIRECTED BY HYDRO'S INSPECTOR. A MINIMUM OF 75mm CONCRETE TO SURROUND DUCT.
6. ALL DUCTS TO BE SWABBED AND STRUNG AND ALL DUCTS STUBBED OFF ARE TO BE TERMINATED WITH A 2"x 4" INSTALLED VERTICALLY AGAINST THE CAPPED DUCT.
7. CONTACT CITY/MUNICIPAL WORKS INSPECTOR FORTY-EIGHT (48) HOURS PRIOR TO STARTING JOB.
8. ALL EXCAVATION, BACKFILLING AND RESTORATION TO BE CARRIED OUT IN ACCORDANCE WITH CITY/MUNICIPAL AND M.O.T. & H. SPECIFICATIONS TO THE SATISFACTION OF THE APPROVING AUTHORITY.
9. DUCTS, BENDS, DUCT ACCESSORIES, TWINE AND GLUE FOR ALL CIVIL WORK TO BE SUPPLIED BY THE DEVELOPER.
10. ALL TRANSFORMER PADS, CONCRETE BOXES, PLASTIC BOXES AND GROUNDING EQUIPMENT SUPPLIED BY HYDRO.



**B-B TRENCH DETAIL**  
SCALE 1:15  
REFER TO ES54 HI-01  
ES54 H4-01.01/02/03

## LEGEND

- TERMINAL POLE
- BC HYDRO DUCT
- △ TRANSFORMER
- JUNCTION ABOVE GROUND
- JUNCTION BELOW GROUND
- SERVICE BOX
- GAS
- WATER
- STORM SEWER
- SANITARY SEWER
- MANHOLE
- HYDRANT
- CATCH BASIN

DESIGN # 0004017215  
W.O. # 01605020



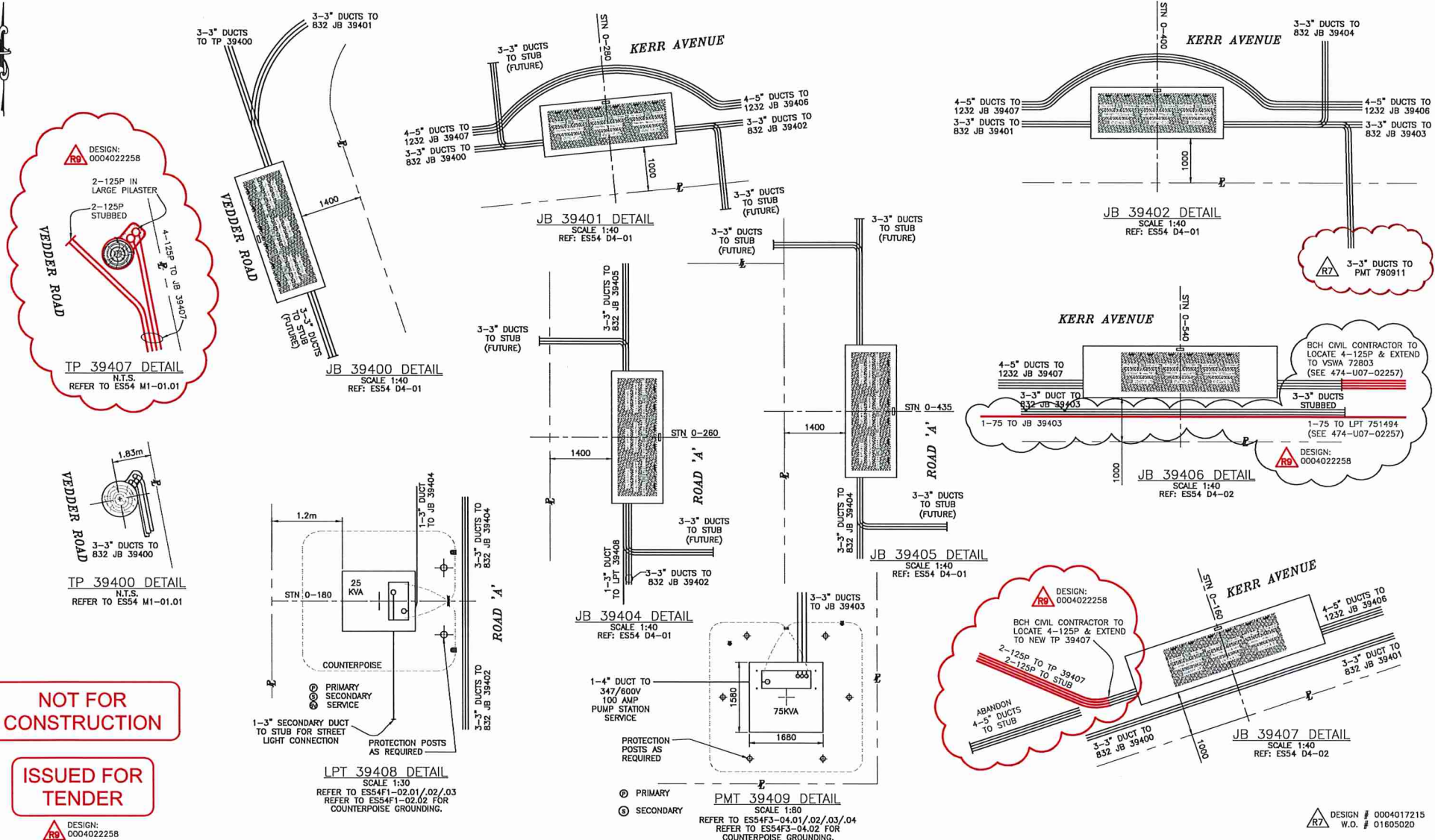
## FRASER VALLEY EAST


PROCESS CENTRE  
UNDERGROUND DUCTS & STRUCTURES FOR  
KERR AVENUE INDUSTRIAL SUBD.  
KERR AVE. & VEDDER RD. CHILLIWACK

REFERENCE DRAWINGS	No.	REVISIONS	REMARKS	BY	APPR.	DATE	No.	REVISIONS	REMARKS	BY	APPR.	DATE
474-U07-02257	No.	REVISIONS	REMARKS	BY	APPR.	DATE	No.	REVISIONS	REMARKS	BY	APPR.	DATE
10	DESIGN: 0004022258-ISSUED FOR TENDER	RM	RE	2018.03.09	5	R2 DESIGN CHANGED, PMT 42216 MOVED EAST-RJ	JO	09.11.17				
9	DESIGN: 0004022258 FOR SERVICE TO MOKSON	RU/AM	RE	2018.02.07	4	DESIGN 0003426289 AS-CONSTRUCTED	RH	09.03.03				
8	DESIGN: 0004017215 ISSUED FOR CONSTRUCTION	BB	PL	2016.12.29	3	DESIGN 0003426289 ADDED - HST	RH	08.12.17				
7	DESIGN 4917215 ADDED TEMP POWER	CM	PL	16.12.09	2	DESIGN 0003406813 ADDED - RJ	RH	08.08.26				
6	R5 DESIGN CHANGED, PMT 42216 AS-CONSTRUCTED	JK	PL	10.01.13	1	AS CONSTRUCTED-RGS	JO	07.02.16				

CIRCUITS		DES.	LK	DATE 2008.06.15
GFIS MAPS	BPI9E2	DR.	JO	2008.06.07
		APPR.		
WD # 00541251		SCALE: AS SHOWN		
DESIGN # 0003230490		AutoCAD: 0957D		

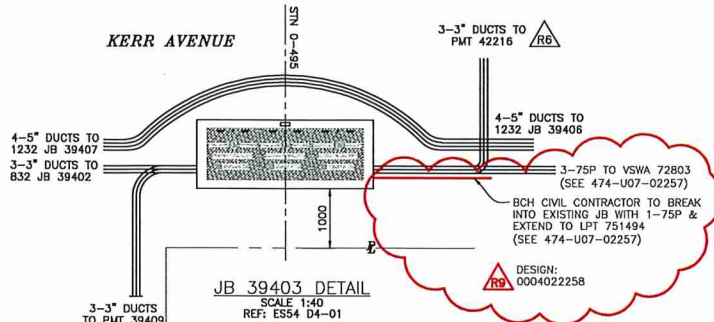
DATE	DATE	DATE
2008.06.15	2008.06.07	
SHT. 1 OF 3	REV. 10	DWG. No. 474-U07-00957



	10	DESIGN: 0004022258-ISSUED FOR TENDER				RM	RE	2018.03.09	5	R2 DESIGN CHANGED, PMT 42216 MOVED EAST-RJ				JO	09.11.17	<div>CIRCUITS</div> <div>GFIS MAPS</div> <div>BPI9E2</div>	DES.	LK	DATE	2008.06.15	<div></div> <div>FRASER VALLEY EAST</div> <div>PROCESS CENTRE</div> <div>UNDERGROUND DUCTS &amp; STRUCTURES FOR</div> <div>KERR AVENUE INDUSTRIAL SUBD.</div> <div>KERR AVE. &amp; VEDDER RD. CHILLIWACK</div>				
	9	DESIGN: 0004022258 FOR SERVICE TO MOLSON				RM/JM	RE	2018.02.08	4	DESIGN 0003426289 AS-CONSTRUCTED				RH	08.12.17										
	8	DESIGN: 0004017215 ISSUED FOR CONSTRUCTION				BB	PL	2018.12.29	3	DESIGN 0003426289 ADDED - HST				RH	08.12.17										
	7	DESIGN 4017215 ADDED TEMP POWER				CM	PL	18.12.09	2	DESIGN 0003406813 ADDED - RJ				RH	08.08.26										
	6	R5 DESIGN CHANGED, PMT 42216 AS CONSTRUCTED				JK	PL	10.01.13	1	AS CONSTRUCTED-RGS				JO	07.02.16	APPR.									
474-U07-02257	No.	REMARKS				BY	APPR.	DATE	No.	REMARKS				BY	APPR.	DATE	WO # 00541251			SCALE: AS SHOWN					
REFERENCE DRAWINGS	REVISIONS								REVISIONS								DESIGN # 0003230490			AutoCAD: 0957D		SHT. 2 OF 3	REV. 10	DWG. No.	474-U07-00957



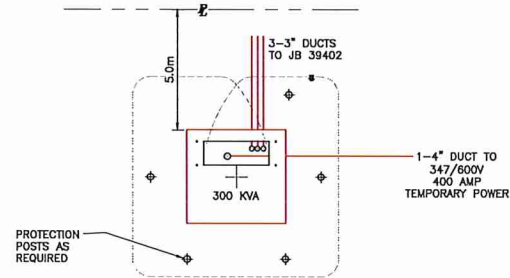
KERR AVENUE



JB 39403 DETAIL  
SCALE 1:40  
REF: ESS4 D4-01



TEMP REVERSE DIP  
TP 001 DETAIL  
N.T.S.  
REFER TO ESS4 M1-01.01

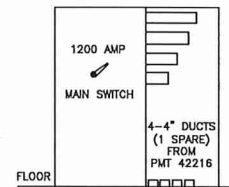


PRIMARY  
SECONDARY  
PMT 790911(SMALL) DETAIL  
SCALE N.T.S.  
REFER TO ESS4F3-04 R4

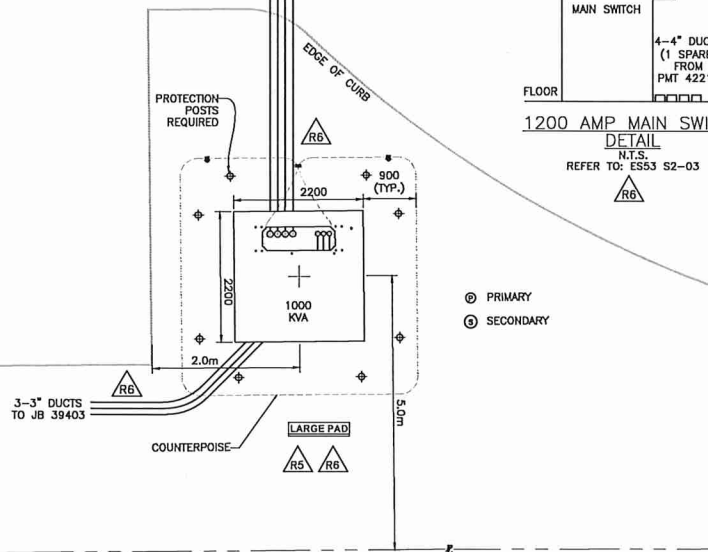
SIZE OF PULLBOXES AND WIREWAYS INSTALLED IN A BUILDING  
AT SERVICE ENTRANCE EQUIPMENT OR MID-CABLE RUN

MAIN SWITCH BREAKER SIZE	NUMBER AND SIZE OF CONDUITS		MINIMUM PULLBOX DIMENSIONS (mm)			MINIMUM WIREWAY DIMENSIONS (mm)	
	1 PHASE	3 PHASE	WIDTH (W)	DEPTH (D)	HEIGHT (H)	WIDTH (W)	DEPTH (D)
UP TO 225A	1 x 3"	1 x 4"	600	230	600	300	200
400A	1 x 3"	1 x 4"	600	300	600	300	300
600A	2 x 3"	2 x 4"	600	350	750	450	300
800A	N/A	2 x 4"	900	350	750	450	300
1200A	N/A	3 x 4"	900	350	900	600	450
1600A	N/A	4 x 4"	900	450	900	600	450

4-4" DUCTS  
(1 SPARE)  
TO  
1200 AMP  
MAIN SWITCH

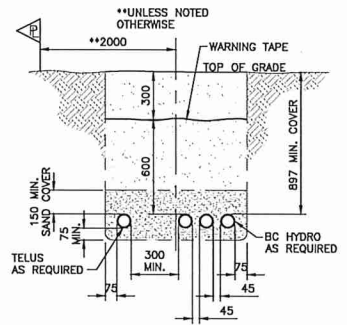
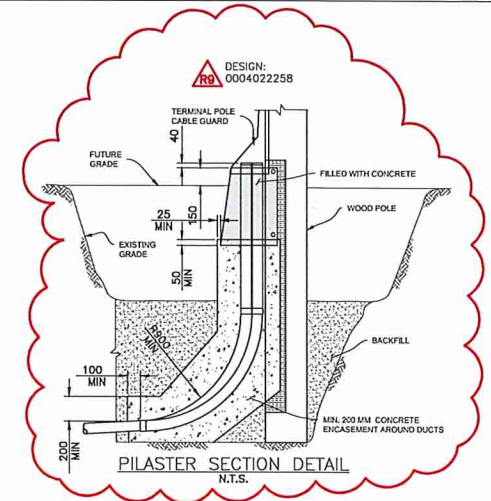


1200 AMP MAIN SWITCH  
DETAIL  
N.T.S.  
REFER TO: ESS3 S2-03



KERR AVENUE

PMT 42216 DETAIL  
SCALE N.T.S.  
REFER TO ESS4F3-04



TYPICAL TRENCH DETAIL  
SCALE 1:15  
REFER TO ESS4 HI-01  
ESS4 H4-01.01/02/03

NOT FOR  
CONSTRUCTION

ISSUED FOR  
TENDER

DESIGN:  
0004022258

DESIGN # 0004017215  
W.O. # 01605020

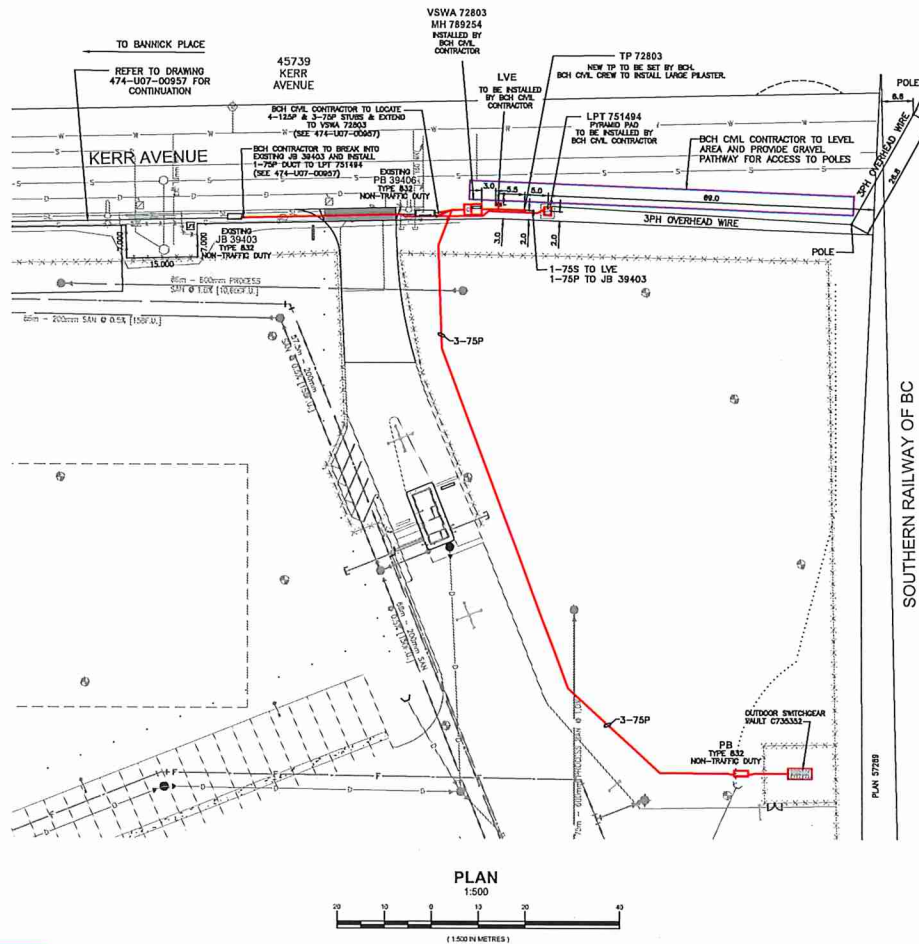
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9	DESIGN: 0004022258 FOR SERVICE TO MOLSON	RM/JM	RE	2018.02.06	4	DESIGN 0003426289 AS - CONSTRUCTED	RH	08.12.17			DR.	JO	2008.06.15
8	DESIGN: 0004017215 ISSUED FOR CONSTRUCTION	BB	PL	2016.12.29	3	DESIGN 0003426289 ADDED - HST	RH	08.12.17	GFIS MAPS	BPI9E2	APPR.		2008.06.07
7	DESIGN 4017215 ADDED TEMP POWER	CM	PL	16.12.09	2	DESIGN 0003406813 ADDED - RJ	RH	08.08.26					
6	RS DESIGN CHANGED, PMT 42216 AS CONSTRUCTED	JK	PL	10.01.13	1	AS CONSTRUCTED - RGS	JO	07.02.16					
474-U07-02257	No.	REMARKS	BY	APPR.	DATE	No.	REMARKS	BY	APPR.	DATE	WD # 00541251	SCALE: AS SHOWN	
REFERENCE DRAWINGS	REVISIONS				REVISIONS				DESIGN # 0003230490				AutoCAD: 0957D



FRASER VALLEY EAST

PROCESS CENTRE  
UNDERGROUND DUCTS & STRUCTURES FOR  
KERR AVENUE INDUSTRIAL SUBD.  
KERR AVE. & VEDDER RD. CHILLIWACK

SHT. 3 OF 3 REV. 10 DWG. No. 474-U07-00957



**WORK LOCATION N.T.S.**

**BC ONE CALL**

CALL BEFORE YOU DIG  
1-800-474-8888  
CALL AT LEAST 3 FULL  
WORKING DAYS BEFORE  
YOU PLAN TO DIG

- CABLE SPEC. 1323 NOTES:**
1. NO HYDRO UNDERGROUND CABLE INSPECTOR MUST BE NOTIFIED **48 HOURS** PRIOR TO CONSTRUCTION.
  2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CLASS OF WORK SPECIFICATION LISA AND BC HYDRO UNDERGROUND CABLE INSPECTION ENGINEERING STANDARDS SERIES ES33 AND ES34. ANY CHANGES MUST BE MADE PRIOR APPROVAL OF BC HYDRO CABLE INSPECTOR.
  3. ALL CABLE INSTALLATION FOR BC HYDRO ON PUBLIC OR PRIVATE PROPERTY SHOULD HAVE MIN. CLEARANCE AND ANY FACTORY ROAD MUST HAVE A MIN. RADIUS OF 0.3m.
  4. ALL UTILITIES (EXCEPT TUBES) MUST MAINTAIN A MIN. HORIZONTAL AND 0.3m VERTICAL SEPARATION FROM BC HYDRO DUCT UNLESS DIRECTED OTHERWISE BY BC HYDRO CABLE INSPECTOR.
  5. OTHER UTILITIES SHOWN ON THE CABLE DRAWING ARE FOR REFERENCE ONLY. PROVE LOCATION OF ALL UTILITIES IN THE WORK AREA BEFORE CONSTRUCTION. FOR CURRENT INFORMATION CONTACT BC ONE CALL.
  6. ALL UTILITIES INDICATE CENTERLINE OF BC HYDRO PLANT.
  7. METERS EXPRESSED IN DECIMALS, MILLIMETRES IN WHOLE NUMBERS.
  8. TRANSFORMER MUST BE A MIN. OF 1.2m ABOVE NON-MOUNTABLE CURB OR PROTECTED. FINAL HEIGHT AND LOCATION OF PROTECTION POSTS TO BE DETERMINED IN THE FIELD BY BC HYDRO CABLE INSPECTOR.
  9. FOR TRANSFORMER PAD COUNTERPOSE CLEARANCES TO OTHER UTILITIES AND UNDERGROUND CONDUCTIVE SURFACES, SEE ES34.
  10. MIN. OFFSET FOR BC HYDRO DUCTS IN JOINT TRUNKS FROM PROPERTY LINE IS 1.2m UNLESS OTHERWISE NOTED.
  11. STUB SERVICE DUCT 1.0m FROM PROPERTY CORNER AND 1.0m INTO THE LOT UNLESS OTHERWISE NOTED.

**CUSTOM NOTES, HERE IF REQUIRED**

**DISCLAIMER**

THIS DRAWING IS THE PROPERTY OF B.C. HYDRO AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF B.C. HYDRO. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. B.C. HYDRO ACCEPTS NO LIABILITY FOR ANY DAMAGE OR LOSS OF ANY KIND, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF BUSINESS, OR LOSS OF REVENUE, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

- CABLE PLAN LEGEND:**
- PROPOSED DUCT
  - EXISTING DUCT
  - FIELD COMPLETED DUCT
  - SERVICE BOX
  - TERMINAL POLE
  - LOW PROFILE TRANSFORMER (LPT-PRIMO P40)
  - LOW PROFILE TRANSFORMER (LPT)
  - PAD MOUNT TRANSFORMER (PMT)
  - 24 & 18 JUNCTION & PULL BOXES (J22, J32, J33 & J332)
  - PREDIST MARKER
  - VISTA SWITCH SUBMOUNTABLE (VSWM)
  - VISTA SWITCH ABOVE GROUND (VSWM)
- REFER TO ES33 AND ES34 UNDERGROUND STANDARDS**

CSA S250 ACCURACY NAD 83 - 10 UTM  
BASE ACCURACY LEVEL: 4 +/- 1000 mm  
ASB ACCURACY LEVEL: 4 +/- 1000 mm

**BCHydro T&D ENGINEERING & DESIGN**

**LMS - FRASER VALLEY EAST**

**CHILLIWACK**

**UNDERGROUND DUCT & STRUCTURES FOR**

**MOLSON - KERR**

**CHILLIWACK**

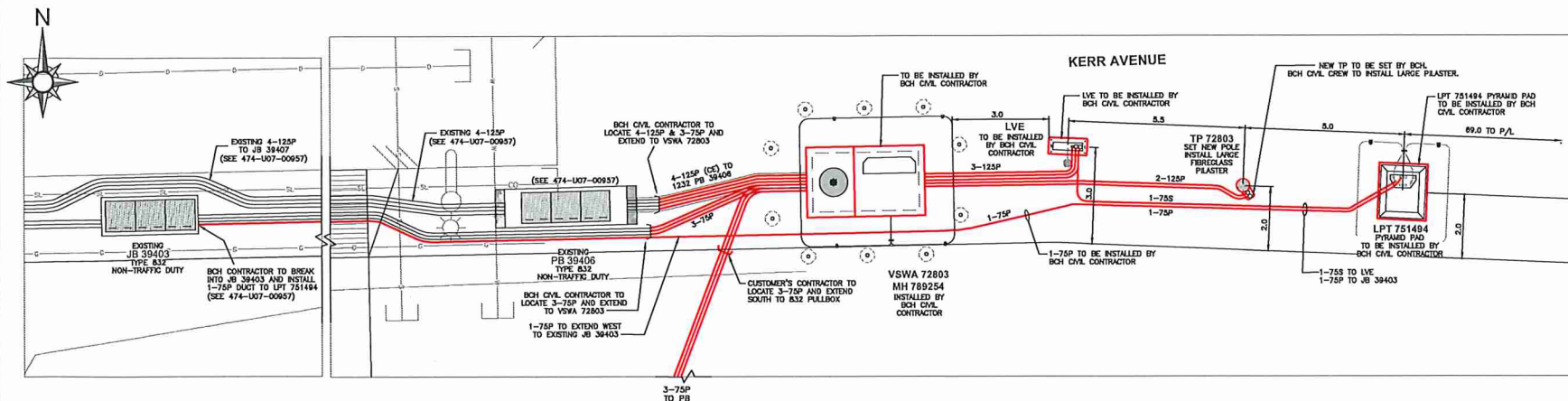
NO.	DATE	DESIGNED	CHECKED	APPROVED	REVISIONS	REMARKS
1	2018-02-07	R. ENNS	W. J. MARQUEZ	W. J. MARQUEZ	1	ISSUED FOR TENDER
2	2018-02-07	R. ENNS	W. J. MARQUEZ	W. J. MARQUEZ	2	NEW DRAFTING
3	2018-02-07	R. ENNS	W. J. MARQUEZ	W. J. MARQUEZ	3	NEW DRAFTING
4	2018-02-07	R. ENNS	W. J. MARQUEZ	W. J. MARQUEZ	4	NEW DRAFTING
5	2018-02-07	R. ENNS	W. J. MARQUEZ	W. J. MARQUEZ	5	NEW DRAFTING

UNDERGROUND UTILITY CHECKS			
Utility	Location	Depth	Notes
Water	45739	1.5m	
Gas	45739	1.5m	
Telecommunications	45739	1.5m	
Electricity	45739	1.5m	
Other	45739	1.5m	
BCH T&D Ticket No. 2017443074			
Issued Date: 2017443074			
Design Contact: Rob Enns			
For Mechanical Construction, when a table of work, utility lines are required to be installed, please the utility companies, prior to construction, to obtain the utility location, depth, and other information required.			
Planning BCH T&D Ticket number valid for planning purposes only. Ticket number not valid for construction purposes. Ticket number not valid for construction purposes. Ticket number not valid for construction purposes.			

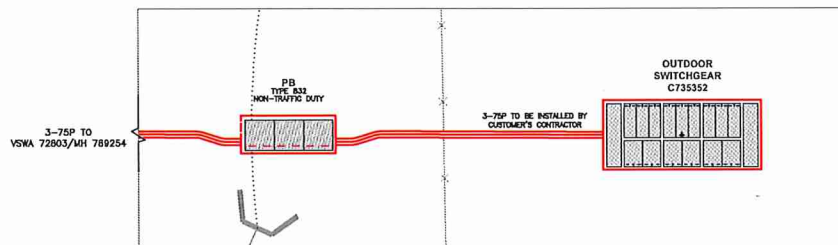
**NOT FOR CONSTRUCTION**

**ISSUED FOR TENDER**

WPS 2.0.0 SEPTEMBER 25, 2017



EX. PB 39406, VSWA 72803 / MH 789254, LVE, TP 72803 AND LPT 751494 DETAILS  
N.T.S.



PB AND SWITCHGEAR C735352 DETAILS  
N.T.S.



WORK LOCATION N.T.S.  
BC ONE CALL  
CALL BEFORE YOU DIG  
1-800-474-8888  
CALL AT LEAST 3 FULL WORKING DAYS BEFORE YOU PLAN TO DIG

- GENERAL NOTES:**
1. NO HYDRO UNDERGROUND CIVIL INSPECTOR MUST BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
  2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CLASS OF WORK SPECIFICATIONS 1333 AND 1334. ANY CHANGES MUST HAVE PRIOR APPROVAL OF BC HYDRO CIVIL INSPECTOR.
  3. ALL CONCRETE INSTALLATION FOR BC HYDRO ON PUBLIC OR PRIVATE PROPERTY SHOULD HAVE MIN. 0.1m COVER AND ANY FACTORY BOND MUST HAVE A MIN. RADIUS OF 0.1m.
  4. ALL UTILITIES (EXCEPT TELL) MUST MAINTAIN A 0.1m HORIZONTAL AND 0.3m VERTICAL SEPARATION FROM BC HYDRO DUCT UNLESS SPECIFIED OTHERWISE BY BC HYDRO CIVIL INSPECTOR.
  5. OTHER UTILITIES SHOWN ON THE CIVIL DRAWING ARE FOR REFERENCE ONLY. PRIOR LOCATION OF ALL UTILITIES IN THE WORK AREA BEFORE CONSTRUCTION FOR CURRENT INFORMATION. CONTACT BC ONE CALL.
  6. ALL OFFICES INDICATE CONTINUOUS OF BC HYDRO PLANT.
  7. METERS EXPRESSED IN DECIMALS, MILLIMETRES IN WHOLE NUMBERS.
  8. TRANSFORMER MUST BE A MIN. OF 1.0m BEHIND NON-LOCATABLE CURB OR PROTECTED FINAL. NUMBER AND LOCATION OF PROTECTION PORTS TO BE DETERMINED IN THE FIELD BY BC HYDRO CIVIL INSPECTOR.
  9. FOR TRANSFORMER PAD COUNTERPOISE CLEARANCES TO OTHER UTILITIES AND UNDERGROUND CONDUCTIVE SURFACES, SEE EISA.
  10. MIN. OFFSET FOR BC HYDRO DUCTS, IN JOINT TRENCH, FROM PROPERTY LINE IS 1.0m, UNLESS OTHERWISE NOTED.
  11. STUB SERVICE DUCT 1.0m FROM PROPERTY CORNER AND 1.0m INTO THE LOT UNLESS OTHERWISE NOTED.

CUSTOM NOTES HERE IF REQUIRED

- CIVIL PLAN LEGEND:**
- PROPOSED DUCT
  - EXISTING DUCT
  - FIELD COMPLETED DUCT
  - SERVICE BOX
  - TERRAZZO POLE
  - LOW PROFILE TRANSFORMER (LPT-PYRAMD PAD)
  - LOW PROFILE TRANSFORMER (LPT)
  - PAD MOUNT TRANSFORMER (PMT)
  - 24" & 18" JUNCTION & PULL BOXES (J23, J32, J42 & J332)
  - PREFAB MANHOLE
  - VISTA SWITCH ABOVE GROUND (VSWA)

REFER TO EISA AND EISA UNDERGROUND STANDARDS  
CSA 5250 ACCURACY NAD 83 - 10 UTM  
BASE ACCURACY LEVEL: 4 +/- 1000 mm  
ASB ACCURACY LEVEL: 4 +/- 1000 mm

UNDERGROUND UTILITY CHECKS			
Utility	Depth (mm)	Location (m)	Notes
Water	✓	✓	✓
San Sewer	✓	✓	✓
Gas	✓	✓	✓
Electricity	✓	✓	✓
Other	✓	✓	✓
BC 1 Call Ticket No: 2017443074			
Design Contact: Rob Enns			

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

**DISCLAIMER**  
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REF	DRAWING NUMBER	NO	REMARKS	DATE	DESIGNED	CHECKED	APPROVED	REVISIONS	ACPT
5									
4									
3									
2									
1	474-U07-00557	0	NEW DRAWING	2018-03-09	R. ENNS	RM	RE	RE	RE
				2018-02-07	R. ENNS	RM	RE	RE	RE

DESIGN	ROB ENNS
DESIGN#	0004022258
WO#	0
DESIGN#	000
WO#	0
ACPT	

DATE	2018-02-07
SPR NO	
DWG NO	474-U07-02257
SHEET	2 OF 2
SIZE	A
NO	1

NOT TO BE REPRODUCED WITHOUT THE PERMISSION OF BC HYDRO



PEDRE CONTRACTORS LTD.  
ALLISON DEMPSEY: 604-881-2411



City of Chilliwack  
Job location: Kerr Ave, east of Yale Rd W/ Vedder Rd  
Closure description: Eastbound centre lane push  
Tentative date and hours: June 4th - June 22  
7:00am to 5:00pm  
Job description: BC Hydro duct bank installation  
Traffic Plan based on a 50 km/h speed zone  
Traffic specifications based on the Traffic Management

- Advanced Warning Sign distances may be shortened due to urban block length.
- TCP to assist construction vehicles ingress/ egress.
- 3.5m lane width to be maintained.
- TCP to assist driveways.

