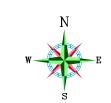


# 248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

MOT PERMIT #: 03-026-13666



### **Drawing List:**

Site Specific Drawings	Sheet No.
EXHIBIT "A1" TITLE/KEY	A1
EXHIBIT "B1" - NOTES	B1
EXHIBIT "B2" - DETAILS	B2
EXHIBIT "B3" - DETAILS	B3
EXHIBIT "C1" - CUT LENGTHS	C1
EXHIBIT "C2" - BILL OF MATERIALS	C2
EXHIBIT "D35" - BRIDGE DETAILS	D35
ALIGNMENT	361-370

### **ASBUILT** 5/DEC/06 REV 1



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

### **CITYWEST TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD**

Location: Terrace to Prince Rupert

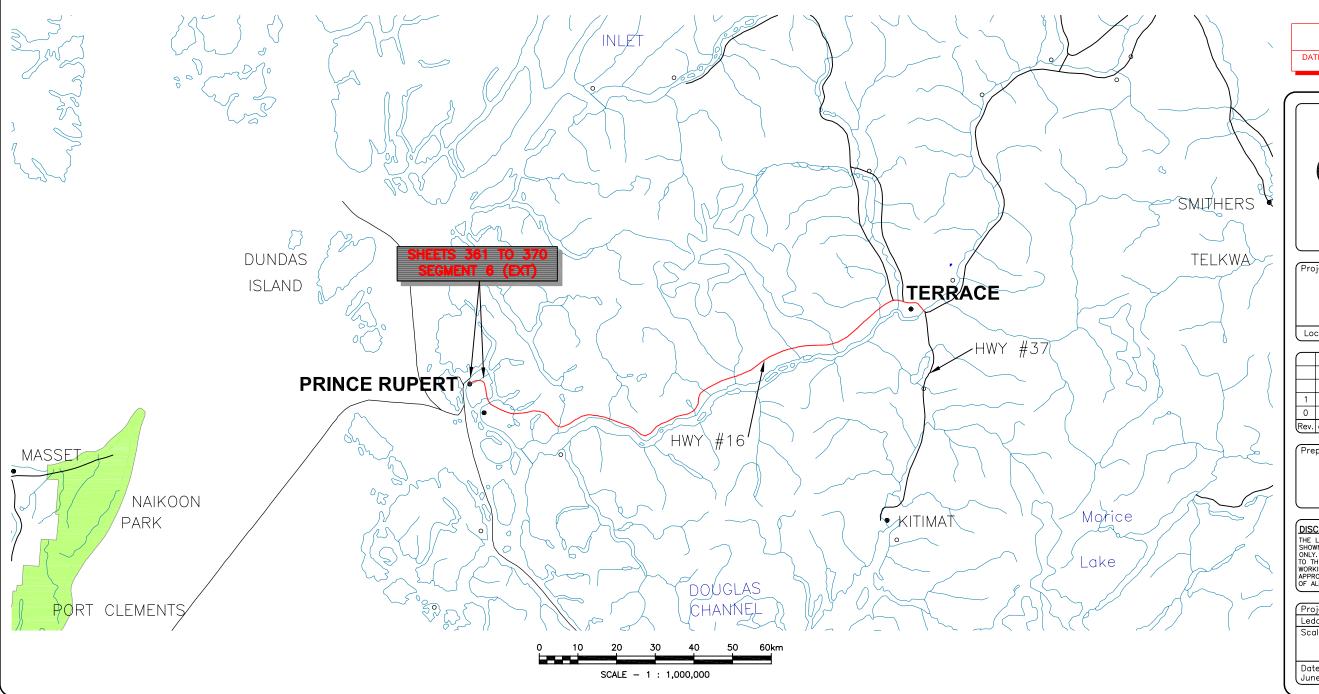
1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

Suite 1200, 1067 West Cordova Street Vancouver, B.C. Canada V6C 7C7



THE LOCATIONS OF ALL UTILITIES—INCLUDING THE CITYWEST FIBER OPTIC LINE. SHOWN ON THIS DRAWING ARE FOR REFERENCE AND PLANNING PURPOSES ONLY. LEDCOR TECHNICAL SERVICES HEREBY DISCLAIMS ANY RESPONSIBILITY TO THIRD PARTIES FOR THE ACCURACY OF THIS INFORMATION. PERSONS WORKING IN THE AREA COVERED BY THIS DRAWING MUST CONTACT THE APPROPRIATE CALL—BEFORE—YOU—DIG SYSTEM TO ASCERTAIN THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.

	Project ID: Terrace to	Prince Ru	upert – Fibre Op	tic Bı	uild	
Ledcor Technical Services Project No.: 5080004						
Scales: Designed by:					Rev.	
	Horiz. 1 : 1	Drawn by:	РМ	4		
	Vert		Approved by:	ВМ		
	Date: Acad File June 06, 2006 LTS05—13		e: 353-ENG02.DWG	She	et N <u>o</u> : A1	



### CONSTRUCTION NOTES

- 1. MINIMUM CONDUIT COVER 1000mm ALL S, EXCEPT WHERE OTHERWISE NOTED.
- 2. ALL DUCTS TO BE 100mm P.V.C. DB2 OR 50mm P.V.C. DB2 UNLESS OTHERWISE NOTED.
- 3. ALL MANUFACTURED BENDS TO BE 0.91m & 3.8m RADIUS UNLESS OTHERWISE NOTED.
- 4. CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION.
- 5. CONTRACTOR TO CONTACT BC ONE CALL 48 HOURS PRIOR TO STARTING WORK.

BC ONE CALL

PH: 1-800-474-6886 \*FAX: 1-604-451-0344

ONLINE: www.bconecall.bc.ca

- \*TO FAX IN A LOCATE REQUEST, PRINT AND COMPLETE THE APPROPRIATE FORM.
- 6. ALL PERMANENT RESTORATION BY CONTRACTOR AS PER CITY OF TERRACE RESTORATION SPECIFICATIONS. ALL RESTORATION ARRANGEMENTS TO BE IN PLACE, PRIOR TO START OF CONSTRUCTION.
- 7. IDENTIFICATION MARKER TAPE TO BE PLACED IN TRENCH LINE, 300mm BELOW FINAL GRADE.
- 8. WHEN REQUIRED CLEARANCES CANNOT BE MAINTAINED, CONDUITS MAY BE CONCRETE ENCASED OR STEEL PROTECTION.
- 9. MINIMUM 1.0m HORIZONTAL SEPARATION AND 0.3m VERTICAL SEPARATION UNDER EXISTING UTILITIES WHERE POSSIBLE. MAINTAIN MINIMUM 1.8m HORIZONTAL SEPARATION AND 0.5m VERTICAL SEPARATION WHEN CROSSING OVER WATER MAINS.
- 10. DIRECTIONAL BORE SECTIONS ARE ESTIMATED.

### LEGEND

PROPOSED DUCT ALIGNMENT	
FACE OF CURB, EDGE OF WALK AND EDGE OF ROAD	FOC
ALIGNMENT REFERENCED EDGE OF PAVEMENT	EOP
EDGE OF GRAVEL	EOG
LOT AND BLOCK BOUNDARIES	P/L
OVER POWER	OHP
BURIED POWER CABLE/DUCT	P
BURIED PIPELINE	
BURIED GAS	

BURIED BELL CABLE/DUCT	
BURIED TELUS CABLE/DUCT	т ———
BURIED FIBRE OPTIC CABLE	FO
TRAFFIC CONTROL	TC
WATER	
SEWER DRAIN	D
SEWER SANITARY	s
FENCE	X
PROPOSED CITYWEST CABLE IN EXISTING MONARCH DUCT	cw

RIGHT-OF-WAY BOUNDARIES	
DIRECTIONAL BORE	<del> </del> BORE
STREET LIGHT POLE	O LP
POWER POLE	O PP
TRAFFIC CONTROL POLE	O TCP
CULVERT	$\rightarrow$ $ \leftarrow$
RAIL CROSSING LIGHTS	
RAIL TRACKS	

**ASBUILT** 

5/DEC/06

REV 1



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

Project:

DATE

# CITYWEST TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Re	v. dd/mm/yy	Revision/Issue Description	Drn.	App

Prepared for / by:

Suite 1200, 1067 West Cordova Street Vancouver, B.C. Canada V6C 7C7



Sheet No:

### DISCLAIMER:

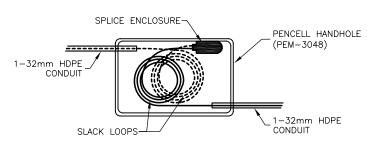
Date:

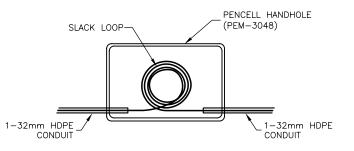
June 06, 2006

THE LOCATIONS OF ALL UTILITIES—INCLUDING THE CITYWEST FIBER OPTIC LINE—SHOWN ON THIS DRAWING ARE FOR REFERENCE AND PLANNING PURPOSES ONLY. LEDOCAT ETCHNICAL SERVICES HEREBY DISCLAIMS ANY RESPONSIBILITY TO THIRD PARTIES FOR THE ACCURACY OF THIS INFORMATION. PERSONS WORKING IN THE AREA COVERED BY THIS DRAWING WUST CONTACT THE APPROPRIATE CALL—BEFORE—YOU—DIG SYSTEM TO ASCERTAIN THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.

Project ID: Terrace to Prince Rupert — Fibre Optic Buil						uild		
ı	Ledcor Technical Services Project No.: 5080004							
ı		Scales:				Designed b	y: BS	Rev.
I			Horiz	-		Drawn by:	PM	1
ı			Vert	_		Approved b	v: BM	]

Acad File: LTS05-1353-ENG02.DWG









1-32mm HDPE CONDUIT 20mm-CRUSHED

AGGREGATE BEDDING

NON-WOVEN GEOTEXTILE SUITABLE FOR FINE SILT-PLACED UNDER WIRE MESH.



NOT TO SCALE

BACKFILL WITH ACCEPTABLE -NATIVE OR GRANULAR MATERIAL.

PENCELL HANDHOLE

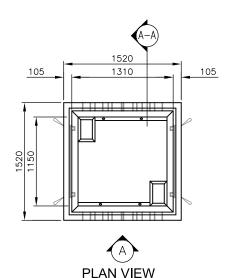
RODENT SCREEN (GALVANIZED —WELDED WIRE MESH SCREEN. 16G

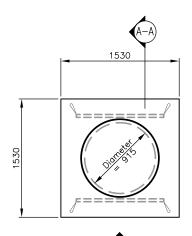
WITH 12.5mm DIAGONAL OPENING)

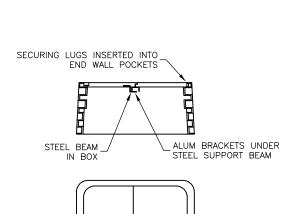


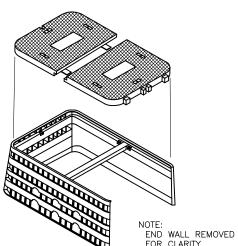
TYPICAL HANDHOLE PLACEMENT DETAIL

NOT TO SCALE

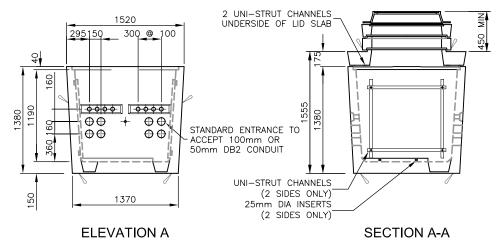












PENCELL HANDHOLE DETAIL (PEM-3048) NOT TO SCALE



HANDHOLE ISO DETAIL NOT TO SCALE

SERVICE VAULT 1.5 X 1.5

1:50





5/DEC/06

REV 1



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

Project:

### **CITYWEST** TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

			_
05/12/06	Asbuilt	РМ	ВМ
02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
. dd/mm/yy	Revision/Issue Description	Drn.	Арр
	02/06/06	02/06/06 MOT Permit Drawing Prince Rupert Extension	02/06/06 MOT Permit Drawing Prince Rupert Extension PM

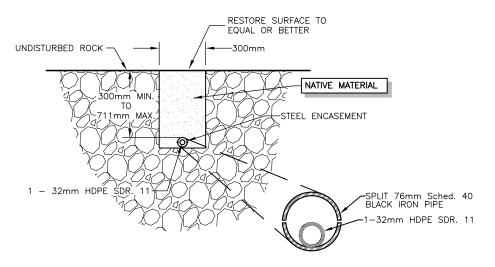
Prepared for / by:

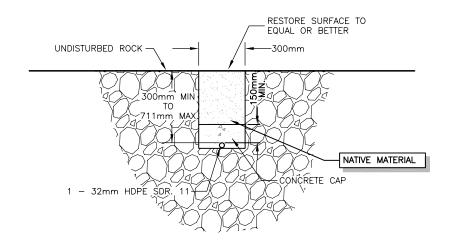
Suite 1200, 1067 West Cordova Street Vancouver, B.C. Canada V6C 7C7



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(Project ID: Terrace to Prince Rupert — Fibre Optic Build						
Ledcor Technical Services Project No.: 5080004						
Scales: Designed by: BS Rev.						
Horiz. AS S	Drawn by:	РМ	1			
Vert. Approved by: BM						
Date: June 06, 2006	le: 353-ENG02.DWG	She	et N <u>o</u> : B2			



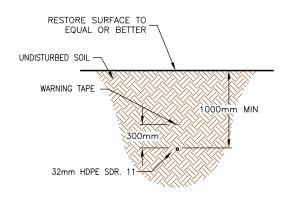


1 - 32mm HDPE SDR. 11 STEEL ENCASEMENT DETAIL

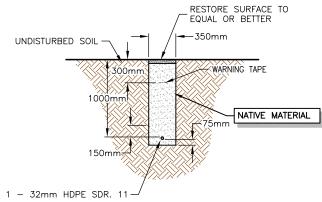
1 : 25

### 1 - 32mm HDPE SDR. 11 CONCRETE CAP DETAIL

1 : 25

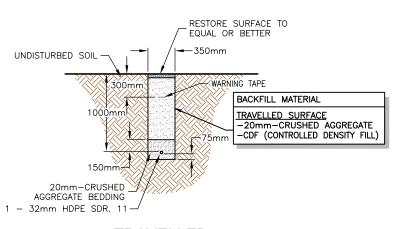


1 - 32mm HDPE SDR. 11 PLOW DETAIL 1 : 50



**NON-TRAVELLED** 1 - 32mm HDPE SDR. 11 DIRECT BURIED TRENCH DETAIL

1:50



**TRAVELLED** 1 - 32mm HDPE SDR. 11 DIRECT BURIED TRENCH DETAIL

1 : 50

**ASBUILT** 

5/DEC/06

REV 1



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

Project:

### **CITYWEST** TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	Арр

Prepared for / by:

Suite 1200, 1067 West Cordova Street Vancouver, B.C. Canada V6C 7C7



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Project ID: Terrace to Prince Rupert — Fibre Optic Build							
1	Ledcor Technical Services Project No.: 5080004						
ı	Scales:		Designed by:	BS	Rev.		
ı	Horiz. AS SH	NWOH	Drawn by:	РМ	4		
	Vert.		Approved by:	ВМ			
	Date: June 06, 2006	le: 353-ENG02.DWG		et N <u>o</u> : B3			

## CABLE CUTTING LENGTHS

Section	Cable	From	Duct/Aerial	Structure	Duct/Aerial	Structure	Duct/Aerial	Structure	Duct/Aerial	Structure	Duct/Aerial	Structure	Duct/Aerial	Structure	Duct/Aerial
Section	Cable	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length
#31 - Sheets 361-370 CWHH-129 to CWMH-04	156f	HH-129 39.0	1181.0	HH-130 30.0	1006.0	HH-131 30.0	563.0	HH-132 28.0	165.0	<b>MH#</b> 01 27.0	252.0	<b>M⊩#</b> 02 5.0	198.0	<b>MH#</b> 03 16.0	75.0
		MH#04													
		40.0													
														Sub Total	3655.0

#32 - Sheets 370 CWMH-07 to CO	204f	MH#04 40.0	227.0	MH#05 17.0	41.0	<b>MH#</b> 06 14.0	226.0	<b>MH#</b> 07 23.0	55.0	CO 17.0				
												Sub Total	660.0	1

SPLICE LOCATION

# **ASBUILT**

05/DEC/06

REV 1



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

### **CITYWEST** TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

1	05/12/06	Asbuilt	PM	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

Prepared for / by:

Suite 1200, 1067 West Cordova Street Vancouver, B.C. Canada V6C 7C7



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Project ID: Terrace to Prince Rupert — Fibre Optic Build								
Ledcor Technical Services Project No.: 5080004								
Scales:		Designed by:						
Horiz. AS SH	IOWN	Drawn by:	РМ	4				
Vert.		Approved by:	ВМ					
Date: June 6, 2006	Acad Fil LTS05-1	e: 353-ENG02.DWG	She	et N <u>o</u> : C1				

# BILL OF MATERIALS - SEGMENT 6 (Extension)

		MATERIALS	SHEE	Г #									TOTAL
		MATERIALS	361	362	363	364	365	366	367	368	369	370	TOTAL
		32mm HDPE SDR-11	400	400	450	400	400	400	400	350			3200
		100mm HDPE SDR-11											
		100mm SCHED. 40 B.I.P.											
		SCHED PCI-SD25-10 SPLIT (2 1/2")											
	⊨	HANDHOLE - PEM-3048-PCX-20K LID				1			1	1			3
	na	MANHOLE 1.5m X 1.5m											
	CONDUIT	WARNING TAPE (m)	400	400	450	400	400	400	400	350			3200
	Ö	BURIED CABLE MARKER POST	1	1	1	1	1	1	1	1			8
		GROUND RODS/PLATE											
		E-LOC COUPLER 100mm DB2 HDPE											
		E-LOC COUPLER 32mm HDPE SDR-11	1	1	1	1	1	1	1	1			8
l⊇l													
151													
힜	1.1												
&	CABLE	156 SMF28 FIBRE OPTIC CABLE	400	400	450	400	400	400	400	350	350		3550
<u>u</u>	CAE	204 SMF28 FIBRE OPTIC CABLE										660	660
UNDERGROUND		CABLE TAGS										4	4
⊃	ш												
	SPLICE	RAYCHEM TYPE "B" CLOSURE											
	3PL	SPLICE TRAYS											
	0,												
		GSP PCI-2-120-GEGS (10' LENGTH)											
		ELBOW - GSP 90* 50mm (2")											
	GE	BONDING JUMPER											
	BRID(	EXPANSION COUPLER											
	BR	PIPE CLAMP											
		PIPE SPACER											

**ASBUILT** 

16/OCT/06

REV 3



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

### **CITYWEST** TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

$\bigcap$				$\Box$
3	16/10/06	Asbuilt	РМ	ВМ
2	21/12/05	Issued for Construction	LB	СВ
1	28/11/05	Ministry Of Transportation Submission	LB	СВ
0	08/10/05	Preliminary Drawing	LB	СВ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

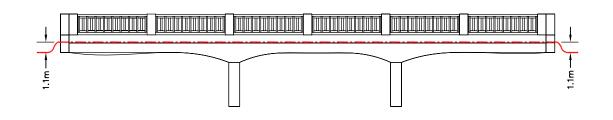
Prepared for / by:

Suite 1200, 1067 West Cordova Street Vancouver, B.C. Canada V6C 7C7

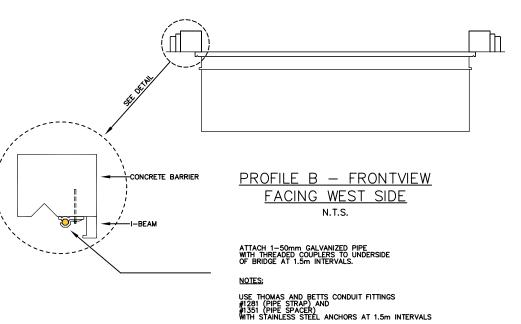


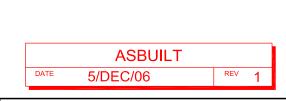
DISCLAIMER:
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Project ID: Terrace to	Prince Ru	upert – Fibre Opt	tic Bu	uild )			
Ledcor Technical Services Project No.: 5080004							
Scales:		Designed by:	МН	Rev.			
Horiz.		Drawn by:	LB	2			
Vert.	Approved by:	СВ	<b>)</b>				
Date: December 21, 2005	e: 353-ENG02.DWG	She	et N <u>o</u> : C2				



PROFILE A - SIDEVIEW FACING SOUTH SIDE N.T.S.







Project:

### **CITYWEST TERRACE TO PRINCE RUPERT** FIBRE OPTIC BUILD

Terrace to Prince Rupert Location:

П					
П					
П					
П	1	05/12/06	Asbuilt	РМ	ВМ
П	0	06/06/06	McClymont Bridge Design for Approval	РМ	ВМ
Ш	Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

Prepared by:

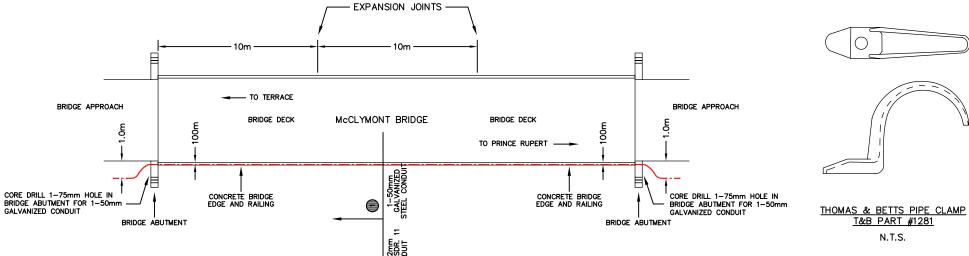
500 - 4th Ave SW, Calgary, Alberta. Canada T2P 2V6

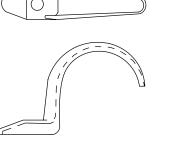


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Project ID: Terrace to	Prince Ru	pert - Fibre Opt	ic Bu	ild
LTS Project No.: 508	30004			
Scales:		Designed by:	BS	Rev.
Horiz. 1 :	1,500	Drawn by:	РМ	1
Vert.		Approved by:	ВМ	
Date: JUNE 6, 2006	Acad Fil LTS06-5	e: 080004-DWG001	She [	et N <u>o</u> : 0-35





THOMAS & BETTS PIPE SPACER

T&B PART #1351

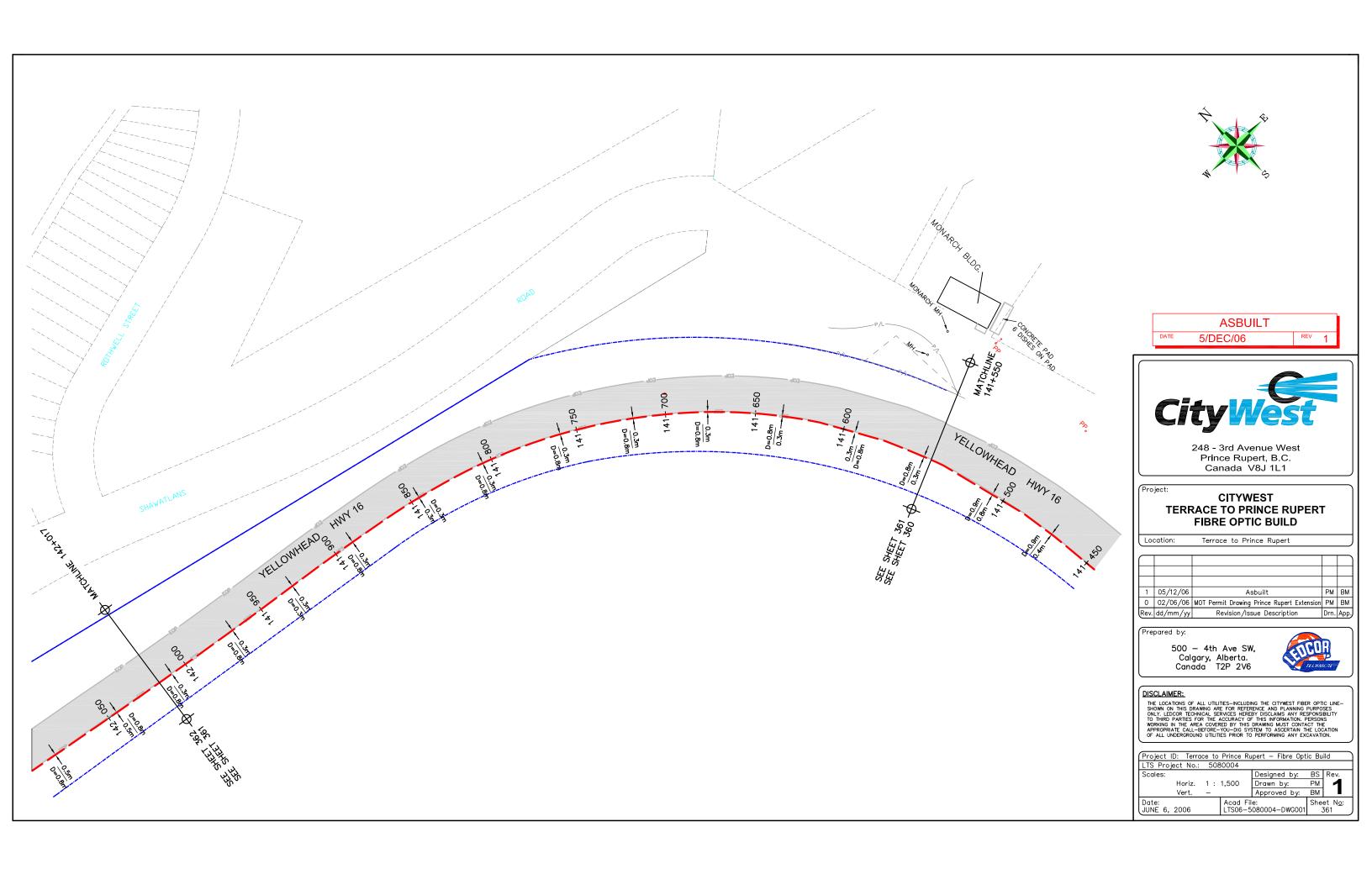
N.T.S.

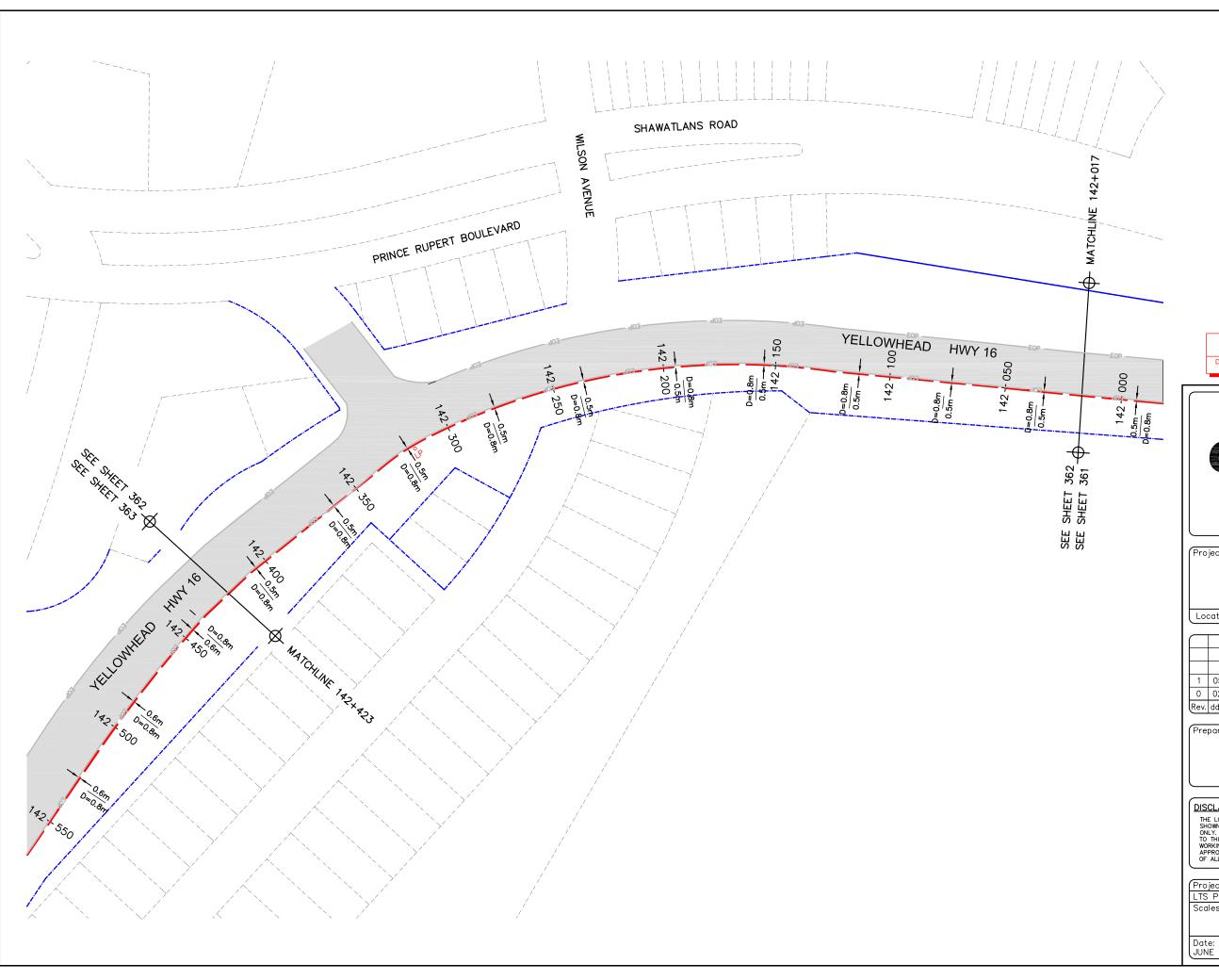


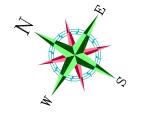
N.T.S.

### **CONSTRUCTION NOTES:**

- ALL HOLES AND PENETRATIONS INTO CONCRETE AND STEEL, BOTH USED AND ABANDONED ARE TO BE SEALED AGAINST MOISTURE INGRESS.
- 2. ALL ABANDONED HOLES IN CONCRETE MUST BE FILLED WITH NON SHRINK GROUT.
- 3. A MAGNETIC REBAR DETECTOR, SUCH AS A PACHOMETER, MUST BE USED TO ENSURE HOLES DRILLED IN REINFORCED CONCRETE DO NOT COINCIDE WITH ANY REINFORCED STEEL.
- 4. DIAMOND TIPPED DRILL BITS MUST NOT BE USED TO DRILL HOLES FOR HANGER INSERTS.







**ASBUILT** 5/DEC/06



248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

### **CITYWEST** TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Terrace to Prince Rupert Location:

1	_				`
I					
I					
I	1	05/12/06	Asbuilt	РМ	ВМ
ı	0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
	Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

Prepared by:

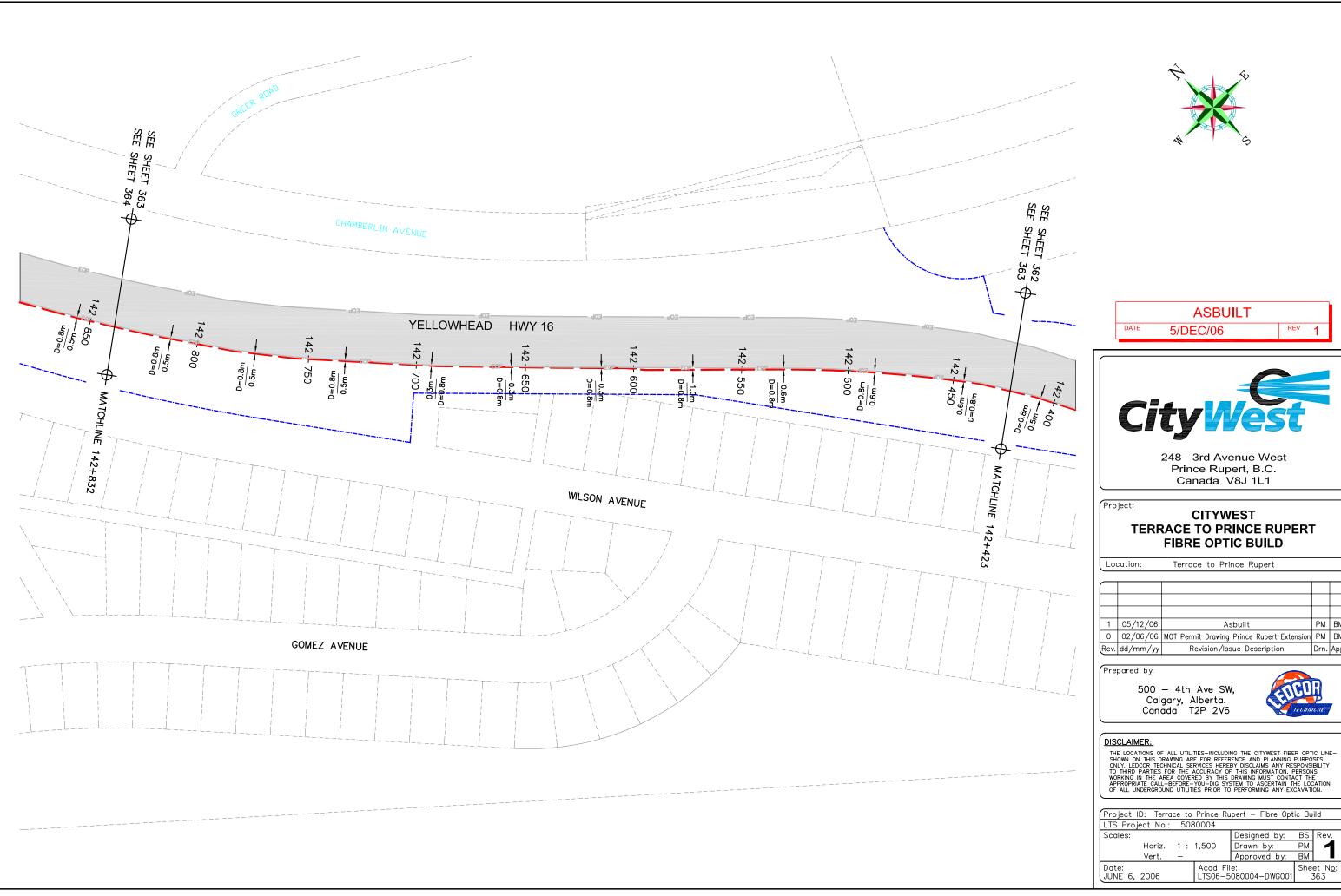
500 - 4th Ave SW, Calgary, Alberta. Canada T2P 2V6



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Project ID: Terrace	to Princ	Prince Rupert — Fibre Optic Bu'						
LTS Project No.: 5	5080004	•						
Scales:		Designed by:	BS Rev.					
Horiz. 1	: 1,500	Drawn by:	PM 🖊					
Vert		Approved by:	ВМ ■					
Date: JUNE 6, 2006		d File: 6-5080004-DWG001	Sheet No: 362					





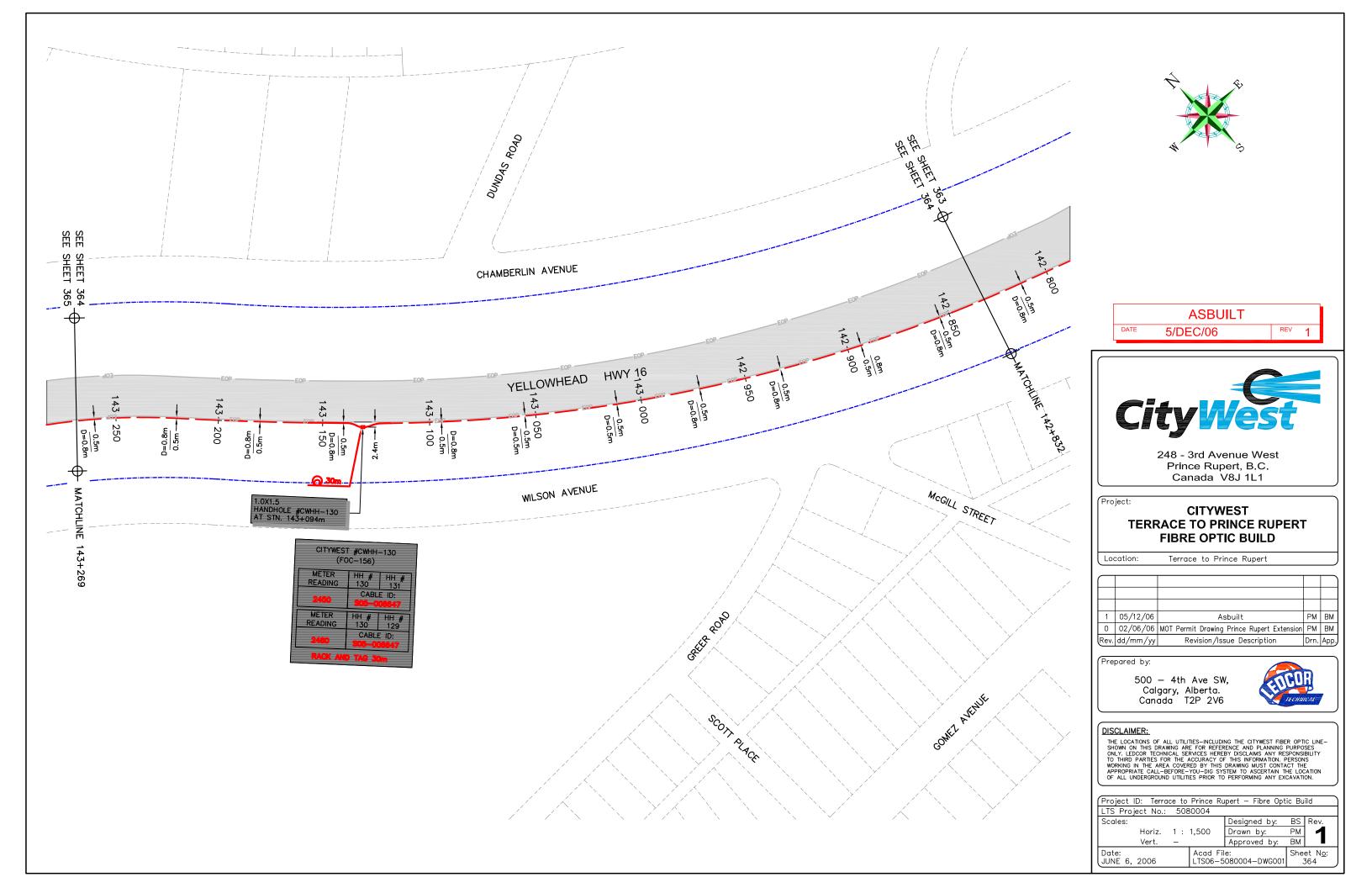
### **TERRACE TO PRINCE RUPERT** FIBRE OPTIC BUILD

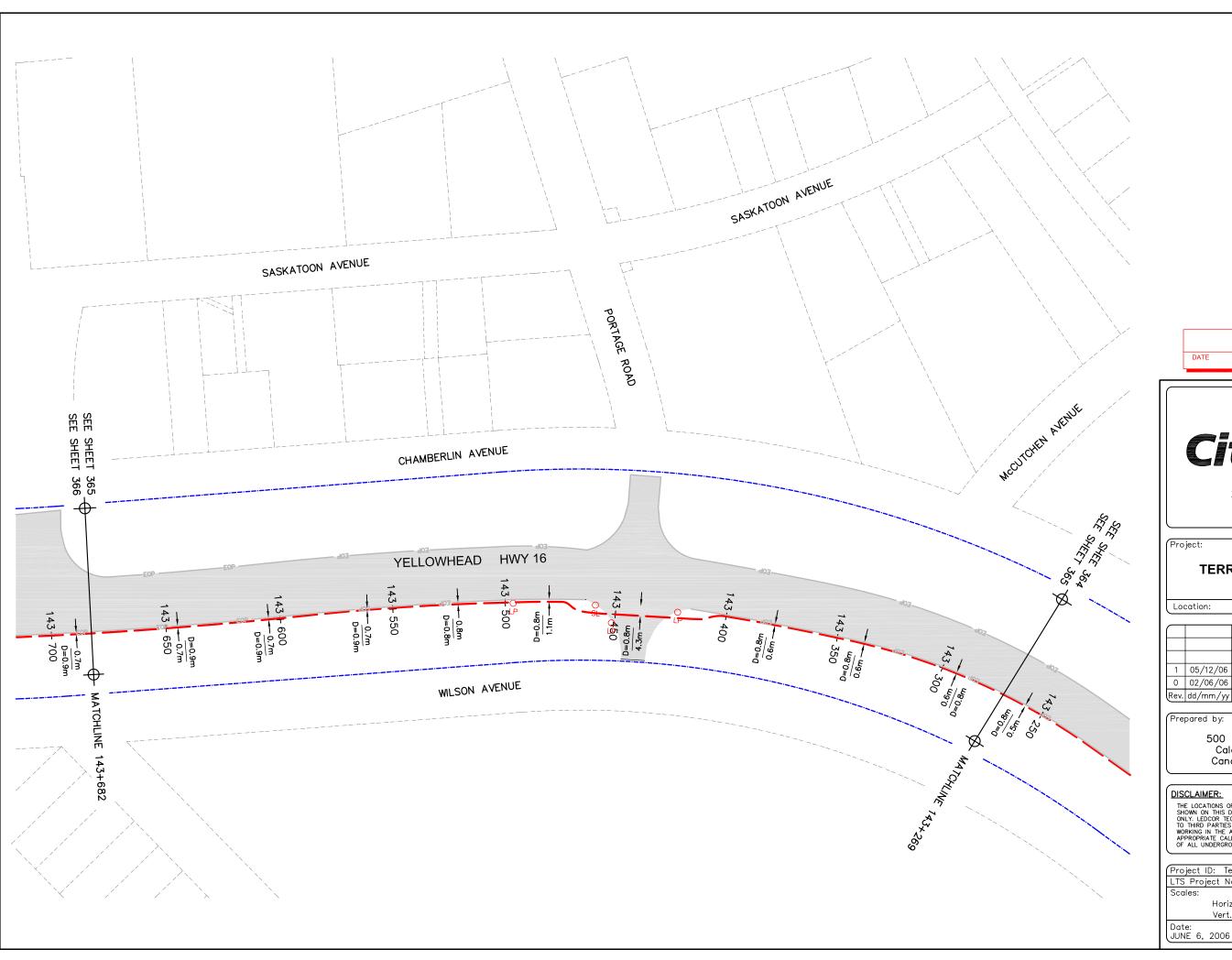
_				_
$\Box$				
1	05/12/06	Asbuilt	PM	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	PM	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	Арр



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Project ID: Terrace to	Prince Ru	pert — Fibre Opt	ic Bu	ild	
LTS Project No.: 5080004					
Scales:		Designed by:	BS	Rev.	
Horiz. 1:	1,500	Drawn by:	РМ	4	
Vert		Approved by:	ВМ		
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248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

### **CITYWEST TERRACE TO PRINCE RUPERT** FIBRE OPTIC BUILD

Terrace to Prince Rupert

1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

Prepared by:

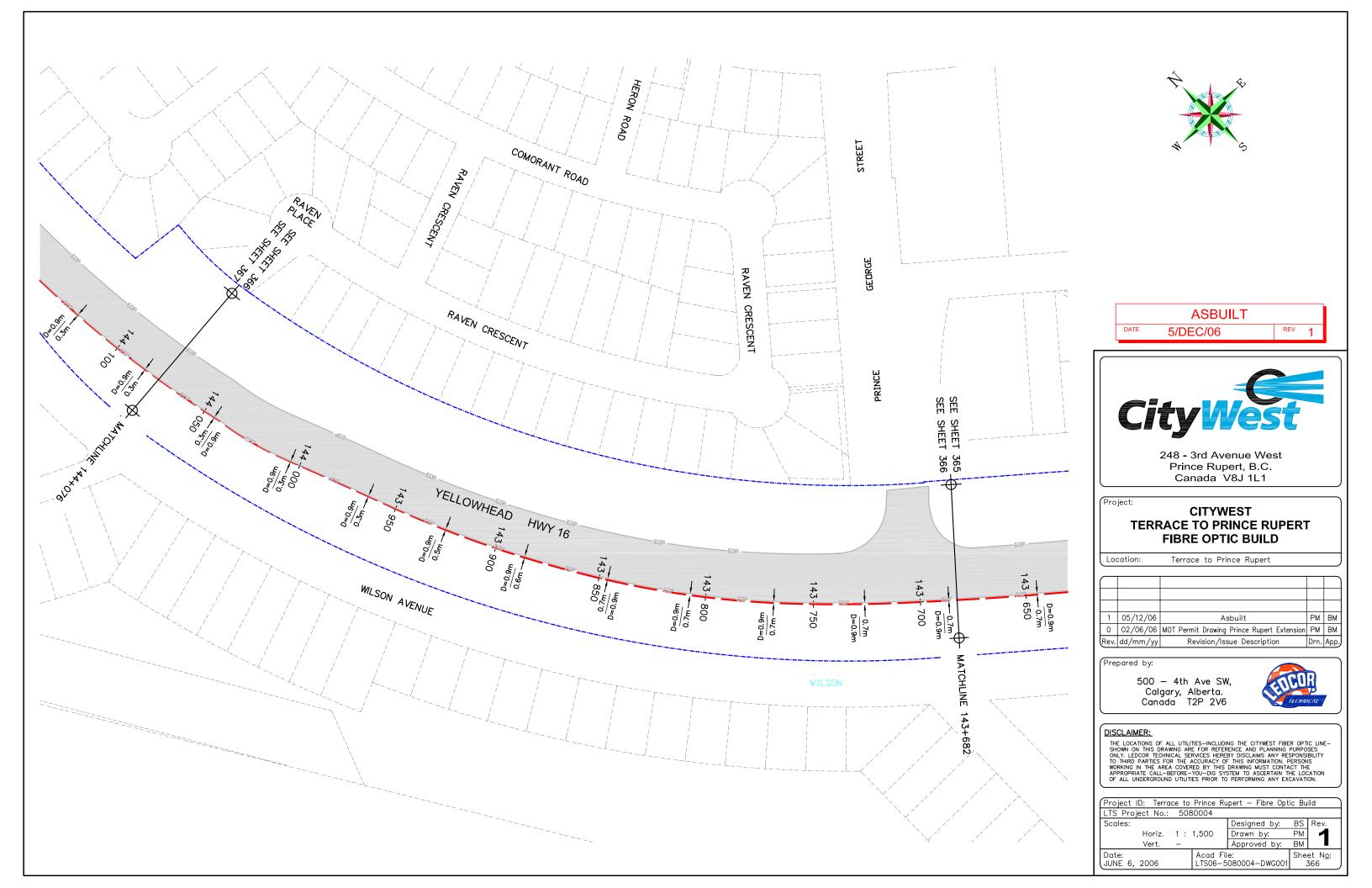
500 - 4th Ave SW, Calgary, Alberta. Canada T2P 2V6

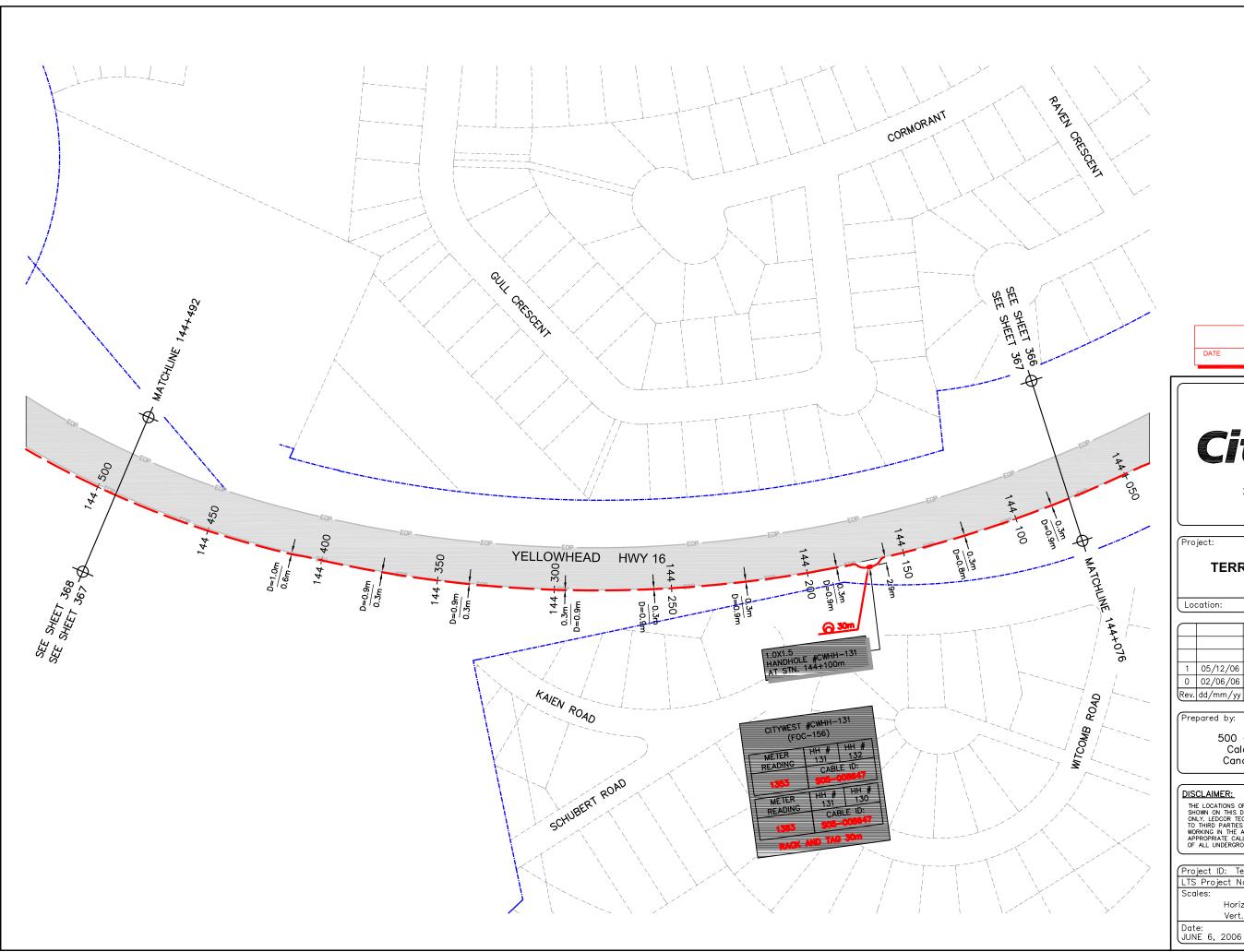


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Project ID: Terrace to Prince Rupert — Fibre Optic Build						
TS Project No.: 5080004						
Scales:				Designed by:	BS	Rev.
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Date: JUNE 6,	2006		Acad Fil LTS06-5	e: 080004-DWG001	She	et N <u>o</u> : 365







5/DEC/06

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248 - 3rd Avenue West Prince Rupert, B.C. Canada V8J 1L1

Project:

### **CITYWEST TERRACE TO PRINCE RUPERT** FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

Prepared by:

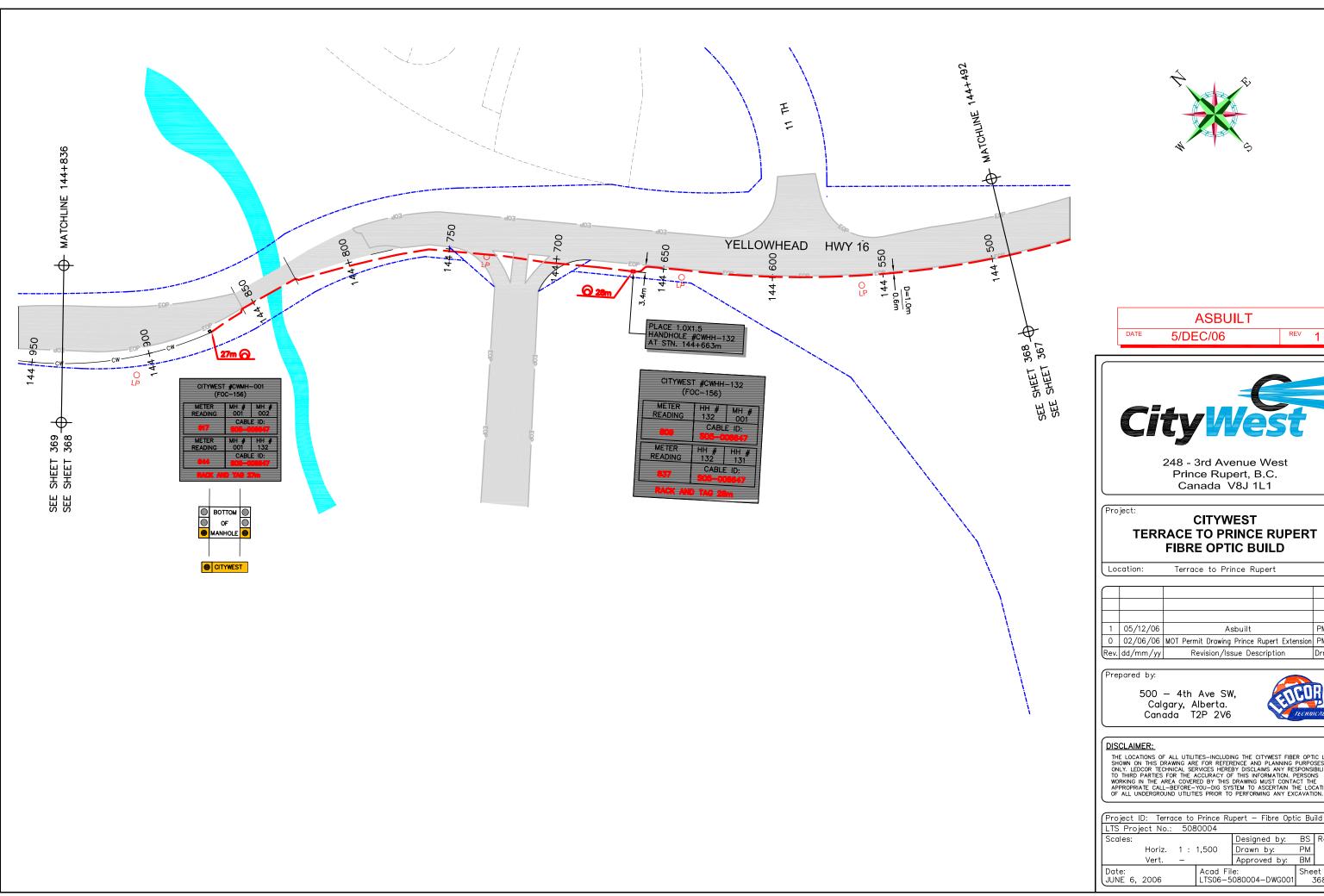
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Project I	D: Terra	ce to	Prince R	upert — Fibre Opt	<u>ic Bu</u>	ild
LTS Project No.: 5080004						
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Date: JUNE 6,	2006	·	Acad F LTS06-	ile: 5080004-DWG001	She	et N <u>o</u> : 367





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### **CITYWEST** TERRACE TO PRINCE RUPERT **FIBRE OPTIC BUILD**

Terrace to Prince Rupert

1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description		App.

Prepared by:

500 - 4th Ave SW, Calgary, Alberta. Canada T2P 2V6



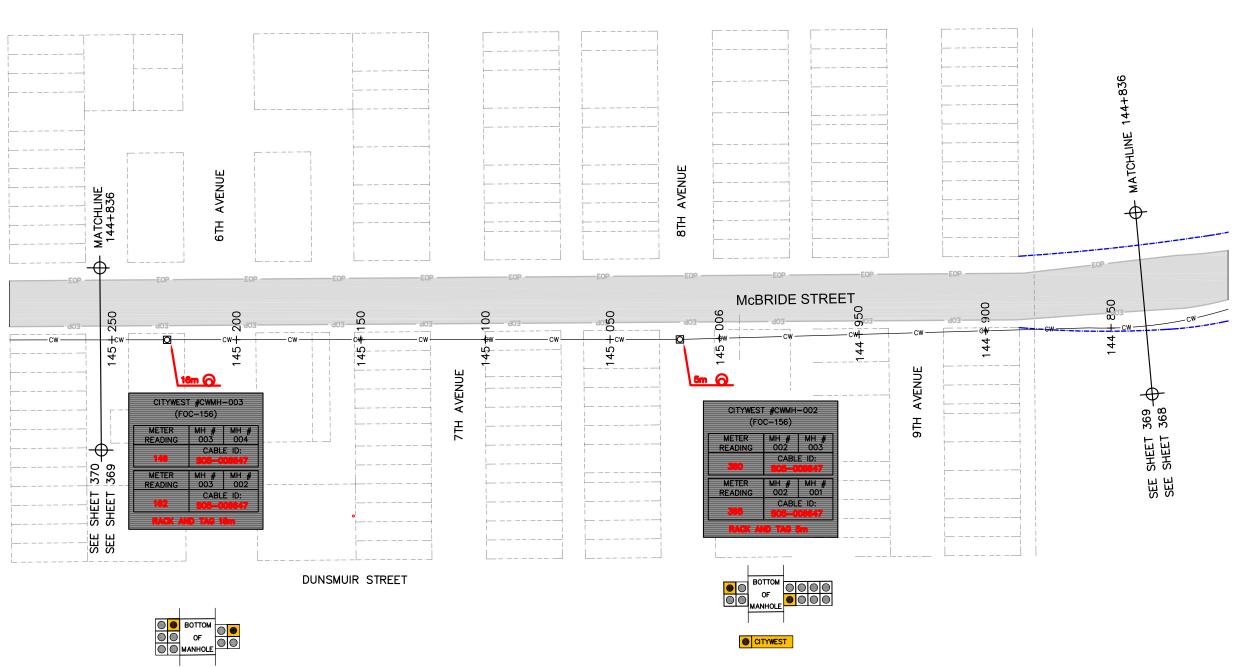
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Project:

### **CITYWEST** TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD

Location: Terrace to Prince Rupert

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	1	05/12/06	Asbuilt	РМ	ВМ
	0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
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Prepared by:

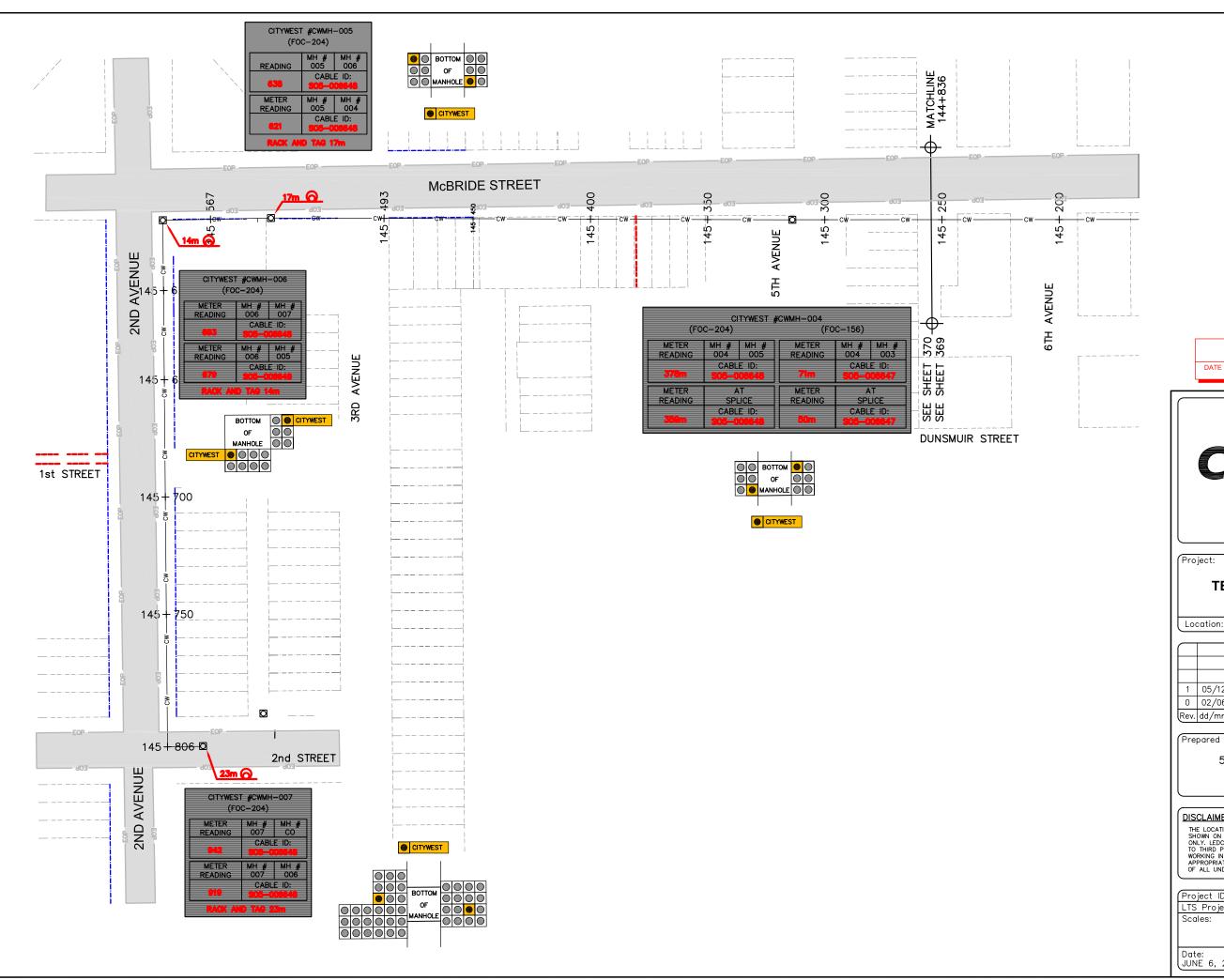
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Project ID: Terrace to Prince Rupert — Fibre Optic Build						
LTS Project No.: 5080004						
Scales:				Designed by:	BS	Rev.
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### **CITYWEST TERRACE TO PRINCE RUPERT FIBRE OPTIC BUILD**

Terrace to Prince Rupert

1	05/12/06	Asbuilt	РМ	ВМ
0	02/06/06	MOT Permit Drawing Prince Rupert Extension	РМ	ВМ
Rev.	dd/mm/yy	Revision/Issue Description	Drn.	App.

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l	Project ID: Terrace to Prince Rupert - Fibre Optic Build					
L	LTS Project No.: 5080004					
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