

CITY OF CHILLIWACK

FRASER RIVER EAST DYKE UPGRADES

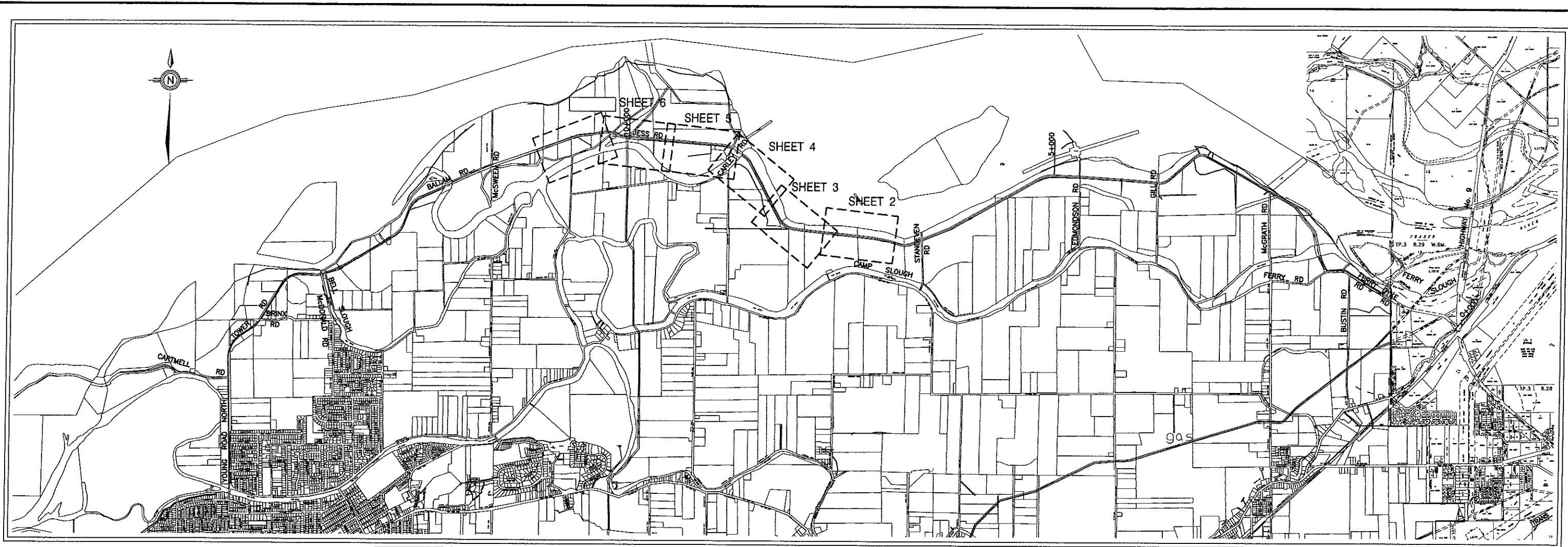
STATION 7+400 TO 10+750

CONTRACT No. 186.78.1

RECORD DRAWING



Dayton & Knight Ltd.
CONSULTING ENGINEERS



KEY PLAN

LEGEND

- NEW DESIGN CREST PROFILE
- AS BUILT CREST PROFILE
- 2006 DESIGN RIVER LEVEL
- 2006 DYKE CREST
- NEW DYKE CENTERLINE
- NEW FENCE
- * FRFCP DYKE CREST
- RP301 --- RP303 OLD RELIEF PITS
- OLD DYKE CENTERLINE
- WOOD FENCE
- WIRE MESH FENCE
- BARBED WIRE FENCE
- ELECTRIC FENCE
- WATER
- GAS
- TELUS
- STORM
- CULVERT
- RIP RAP
- PP --- POWER POLE
- TREES/HEDGE
- CB --- CATCH BASIN
- RW --- OLD RELIEF WELL
- CATTLE GUARD
- SIGN
- NO-POST BARRIER
- GATE
- PAVED ROAD
- GRAVEL ROAD



AREA PLAN

MONUMENTS

| Monument | Northing | Easting | Elev. |
|------------|-------------|------------|--------|
| Mon 671 | 5448279.560 | 576336.482 | 11.402 |
| Mon 772 | 5452212.579 | 581414.850 | 13.679 |
| Mon 770 | 5450912.413 | 583455.573 | 13.237 |
| Mon H360 | 5451555.655 | 585040.449 | 16.926 |
| Mon 89C174 | 5450549.760 | 587871.059 | 16.622 |
| Mon 767 | 5450354.751 | 588199.031 | 16.051 |
| Mon 670A | 5450532.645 | 577236.155 | 13.469 |

COORDINATES USED ON THESE DRAWINGS ARE BASED ON UTM NAD83 ZONE 10 GPS DERIVED GRID COORDINATES WHICH WERE TRANSFORMED INTO THIS LOCAL GROUND LEVEL SYSTEM. DISTANCES SHOWN ARE GROUND LEVEL. GRID TO GROUND SCALE FACTOR USED = 1.000316. GRID BEARINGS ARE APPROXIMATELY 0'51" LESS THAN ASTRONOMIC. SCALING POINT USED AT COORDINATES N5451769.956 E 586225.459

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INDEX TO DRAWINGS

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| 11 | MISCELLANEOUS DETAILS |

**CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STATION 7+400 TO 10+750
CONTRACT No. 186.78.1**

PROFESSIONAL ENGINEER
JOHN W. C. BOYLE
OCT 11, 2007

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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| B | JUN/07 | KS | JS | [Signature] | RECORD DRAWING |

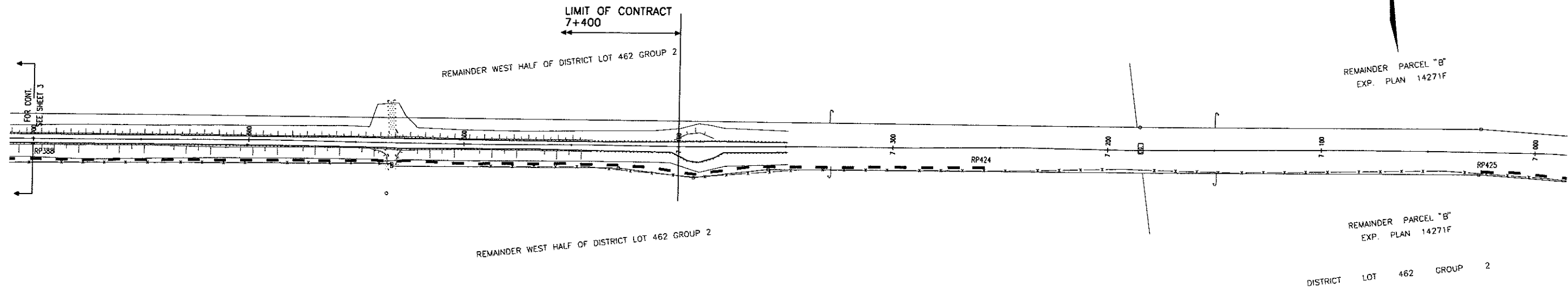
DESIGNED: J.S.
DRAWN: KS
CHECKED: [Signature]

Dayton & Knight Ltd.
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#210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1
TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com

CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 7+400 TO 10+750
KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND

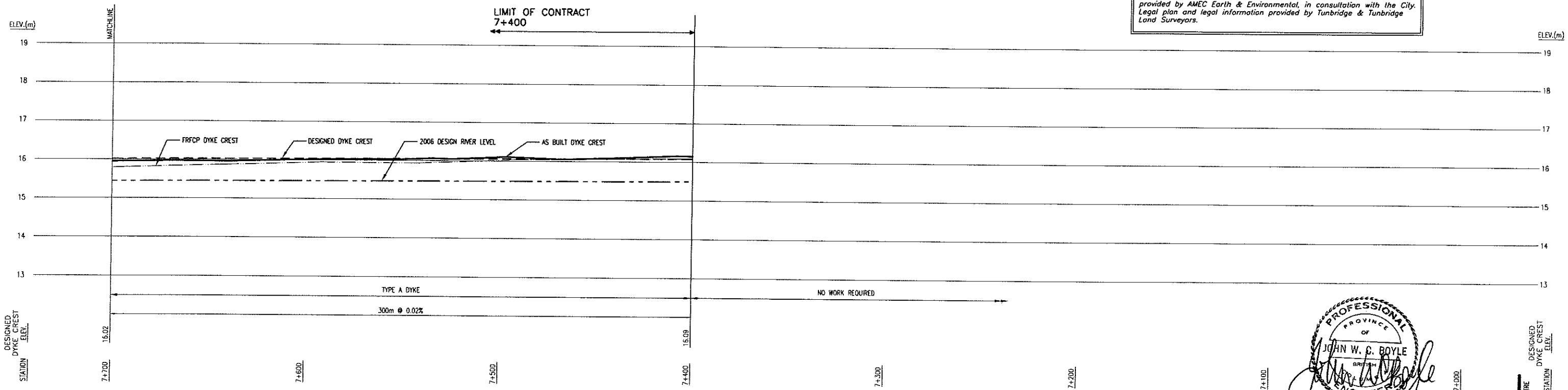
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SHEET 1 OF 11 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE

FILE: P:\Records\Chilliwack\186... \ASH1.dwg Tab: Layout11 07-07-04



PLAN

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PROFILE

PROFESSIONAL
 PROVINCE OF
 JOHN W. G. BOYLE
 BRITISH
 ENGINEERS
 09/11/2007

SCALE
 1 METRE
 25 METRES

PLOT: FULL 1:1 HALF 1:2

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|---------|-------|-------|-------------|----------------|
| B | JUN8/07 | KS | JS | [Signature] | RECORD DRAWING |

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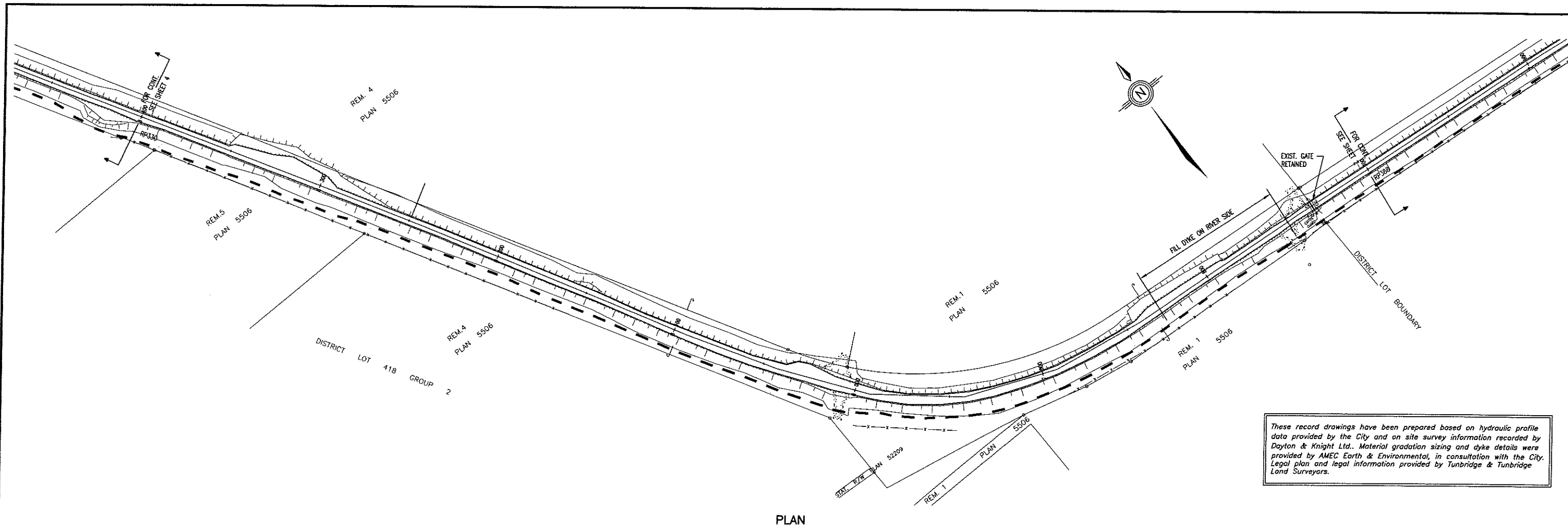
DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

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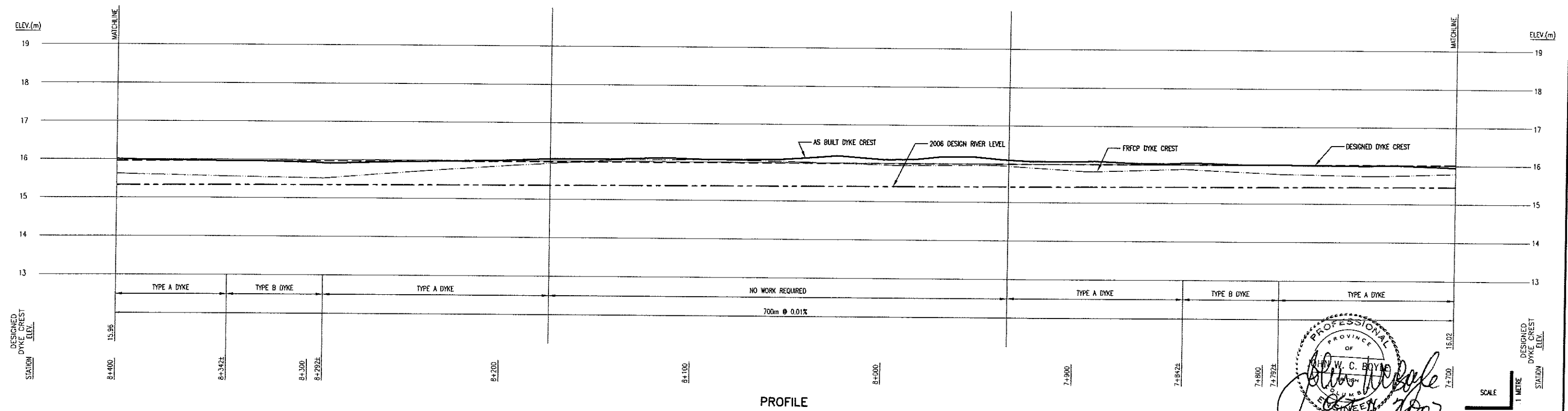
CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 7+400 TO 10+750
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.1
 SHEET 2 OF 11 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE

FILE: P:\Records\Chilliwack\186... \SH2_3_4_5_6.dwg Tab Sheet 2 07-07-04 KIT



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PROFESSIONAL
PROVINCE OF
W. C. BOYNE
REGISTERED
2007

SCALE
1 METRE
25 METRES

FILE: P:\Receivng\Chilliwack\186781\1\SHZ2_3_4_5.dwg Tab Sheet 3 07-07-04 KT

PLOT: FULL 1:1 HALF 1:2

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| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|------|-------|-------|-------|-------------|
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DESIGNED J.S.

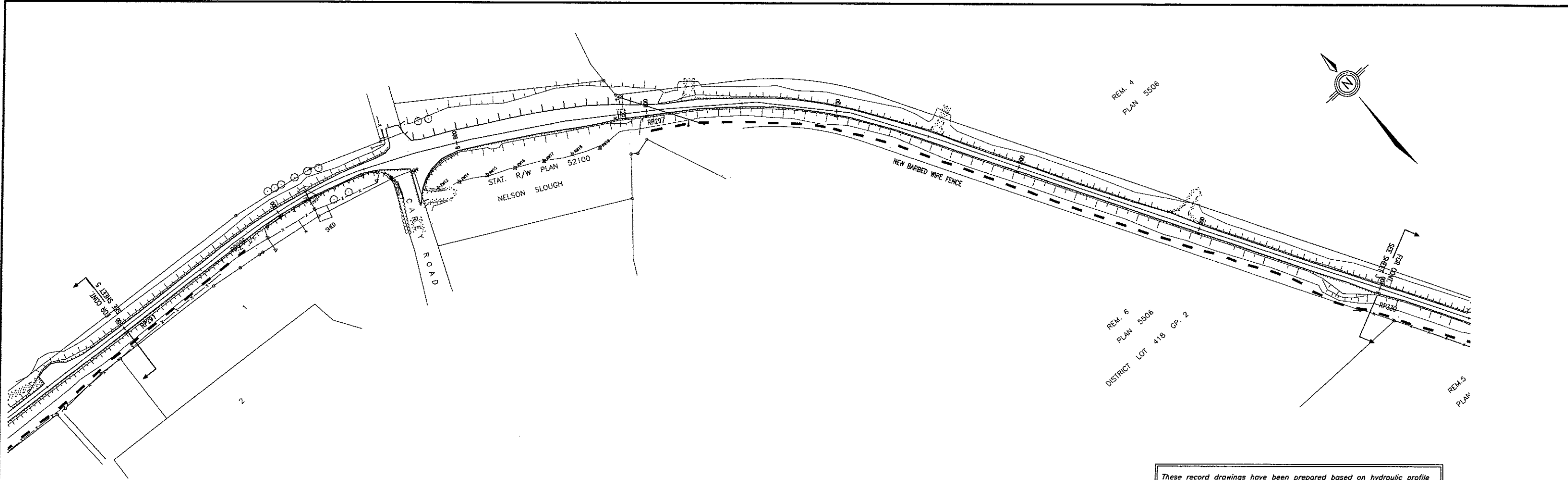
DRAWN KS

CHECKED [Signature]

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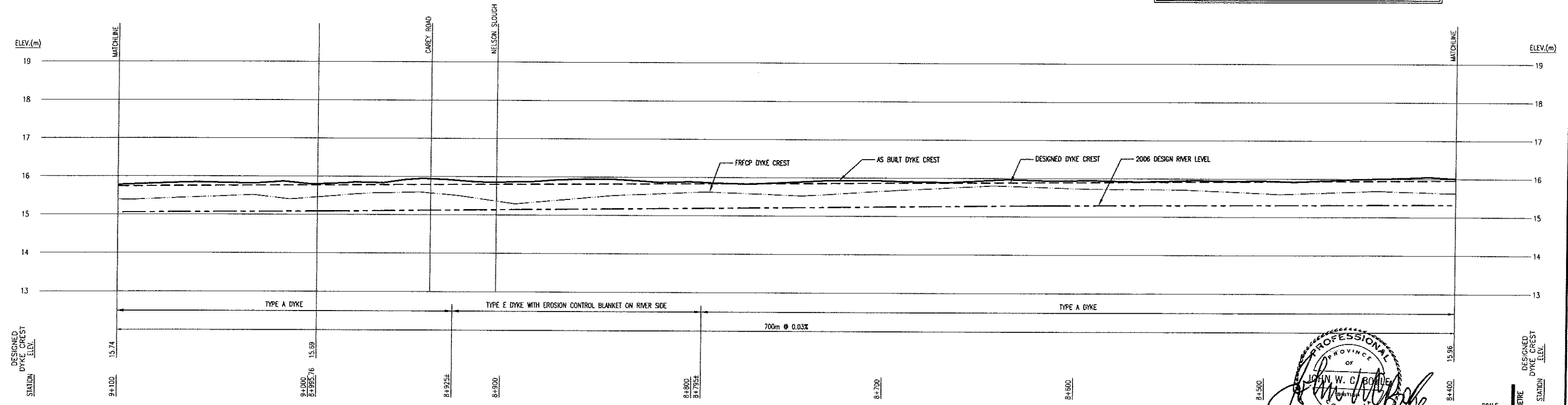
CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 7+400 TO 10+750
PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
DRAWING No. 186,78.1
SHEET 3 OF 11 ISSUE B
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PLAN

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PROFILE

PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 JOHN W. C. BOUQUET
 OCT 21 2007

SCALE
 1 METRE
 25 METRES

FILE: P:\Projects\Chilliwack\186-1-1\SH2-3-4-5-6.dwg, Tab Sheet 4 of 07-07-04 KIT

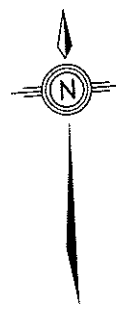
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DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

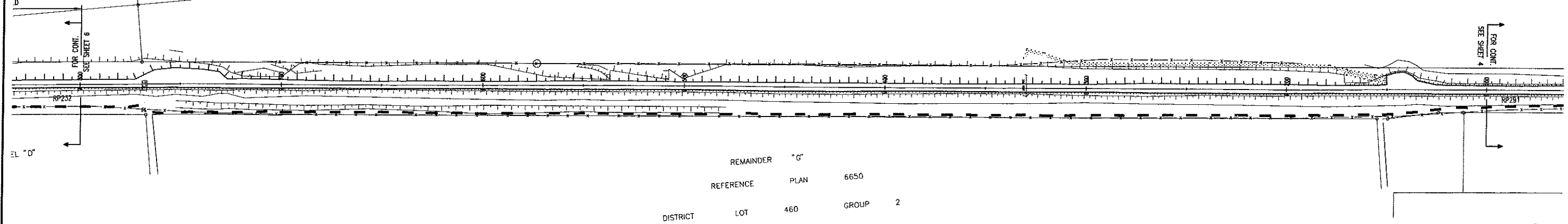
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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 7+400 TO 10+750
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.1
 SHEET 4 OF 11 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE



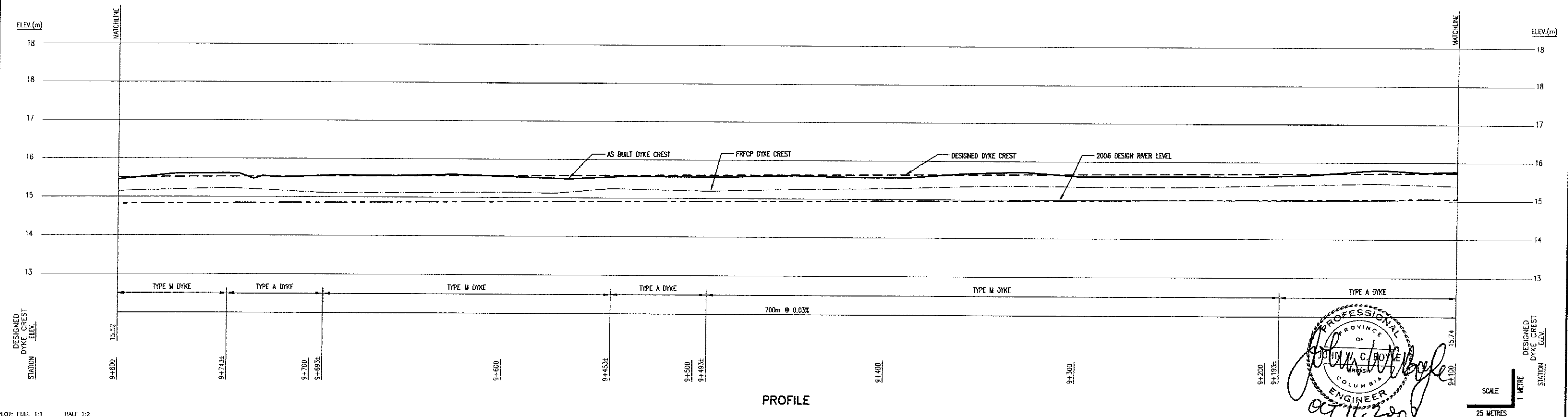
REMAINDER "H"
PLAN WITH FEE DEPOSITED 52666F



REMAINDER "G"
REFERENCE PLAN 6650
DISTRICT LOT 460 GROUP 2

PLAN

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PROFILE

PROFESSIONAL
ENGINEER
JOHN W. C. BOYLE
COLUMBIA PROVINCE
OCT 11, 2007

SCALE
1 METRE
25 METRES

FILE: P:\Records\Chilliwack\1867-1-1\SH12_3_4_5_6.dwg Job Sheet 5 07-07-04 KIT

PLOT: FULL 1:1 HALF 1:2

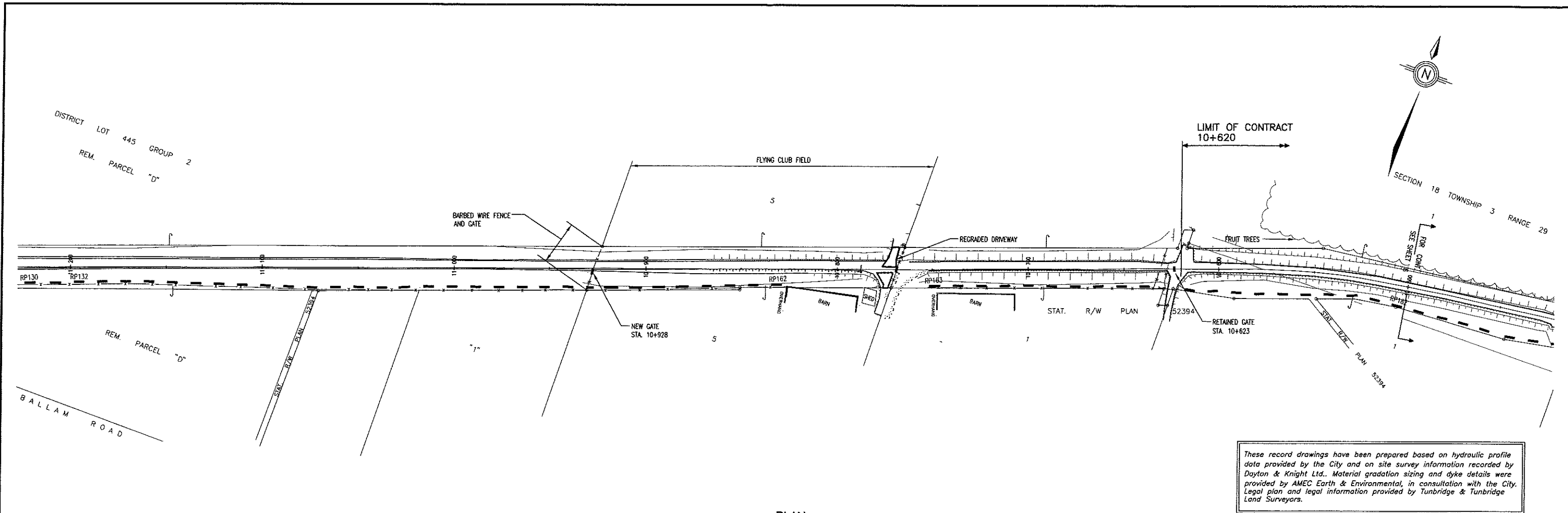
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DESIGNED J.S.
DRAWN KS
CHECKED [Signature]

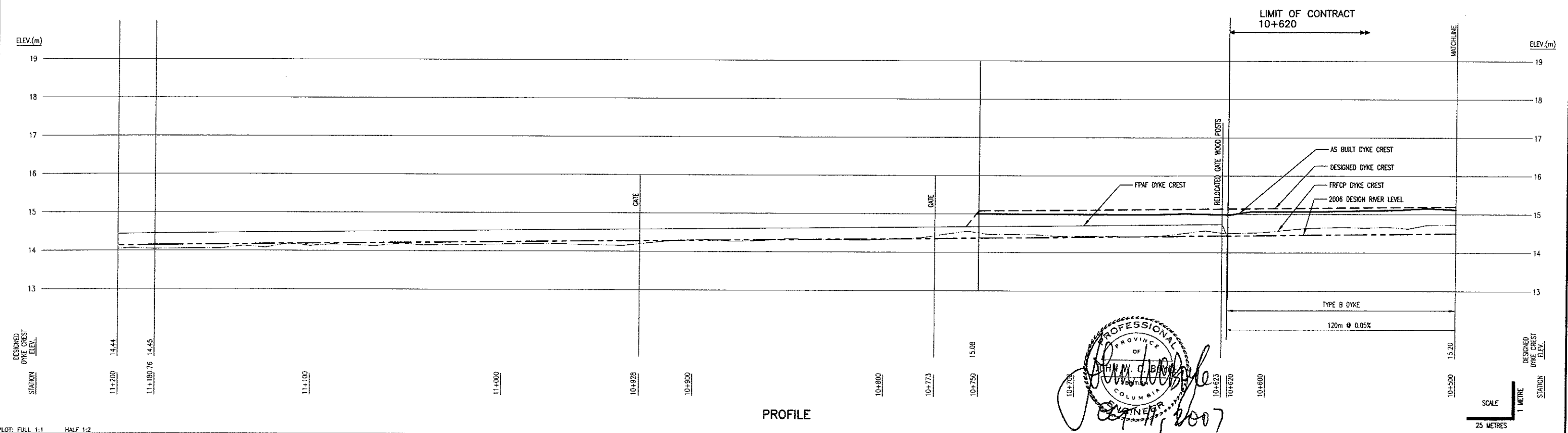
Dayton & Knight Ltd.
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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 7+400 TO 10+750
PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
DRAWING No. 186.78.1
SHEET 5 OF 11 ISSUE B
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PROFESSIONAL
 PROVINCE OF
 COLUMBIA
 SURVEYOR
 J. S. B. [Signature]
 2007

FILE: P:\Records\Chilliwack\186...1\SH17.dwg, Tab: SH17_07-09-18...KIT

PLOT: FULL 1:1 HALF 1:2

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| B | JUN8/07 | KS | JS | [Signature] | RECORD DRAWING | | | | | | |

DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 7+400 TO 10+750
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.1
 SHEET 7 OF 11 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE

LAND SIDE (TYP.)

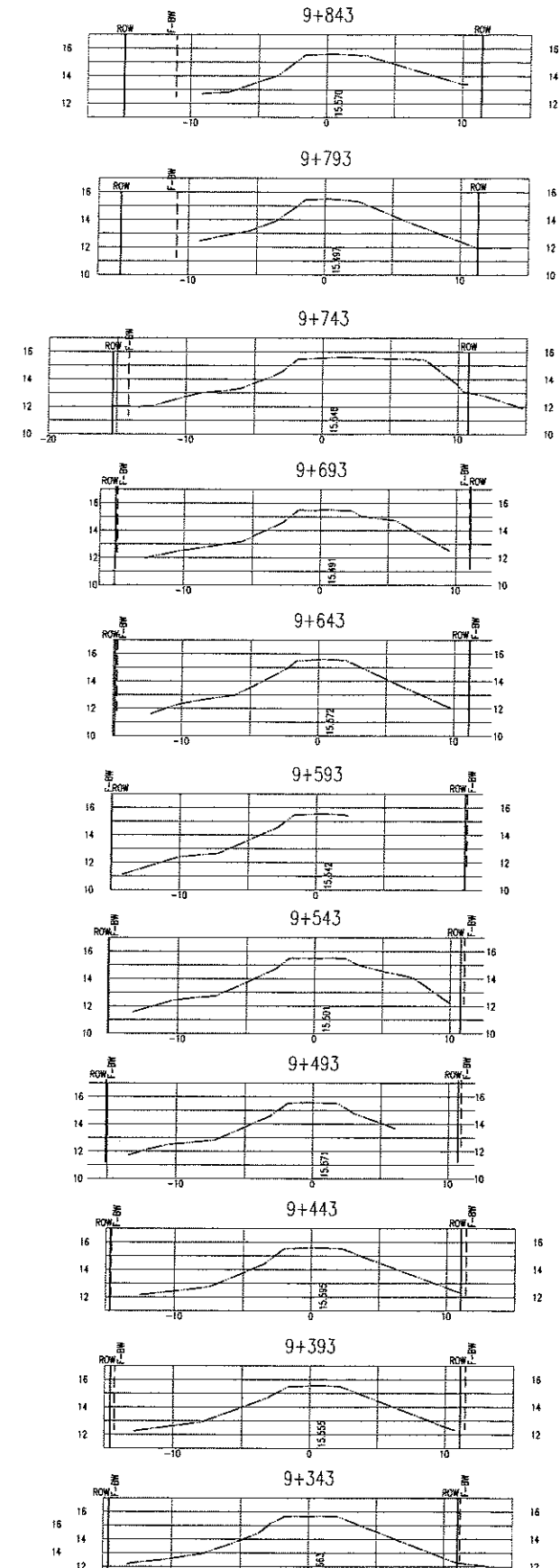
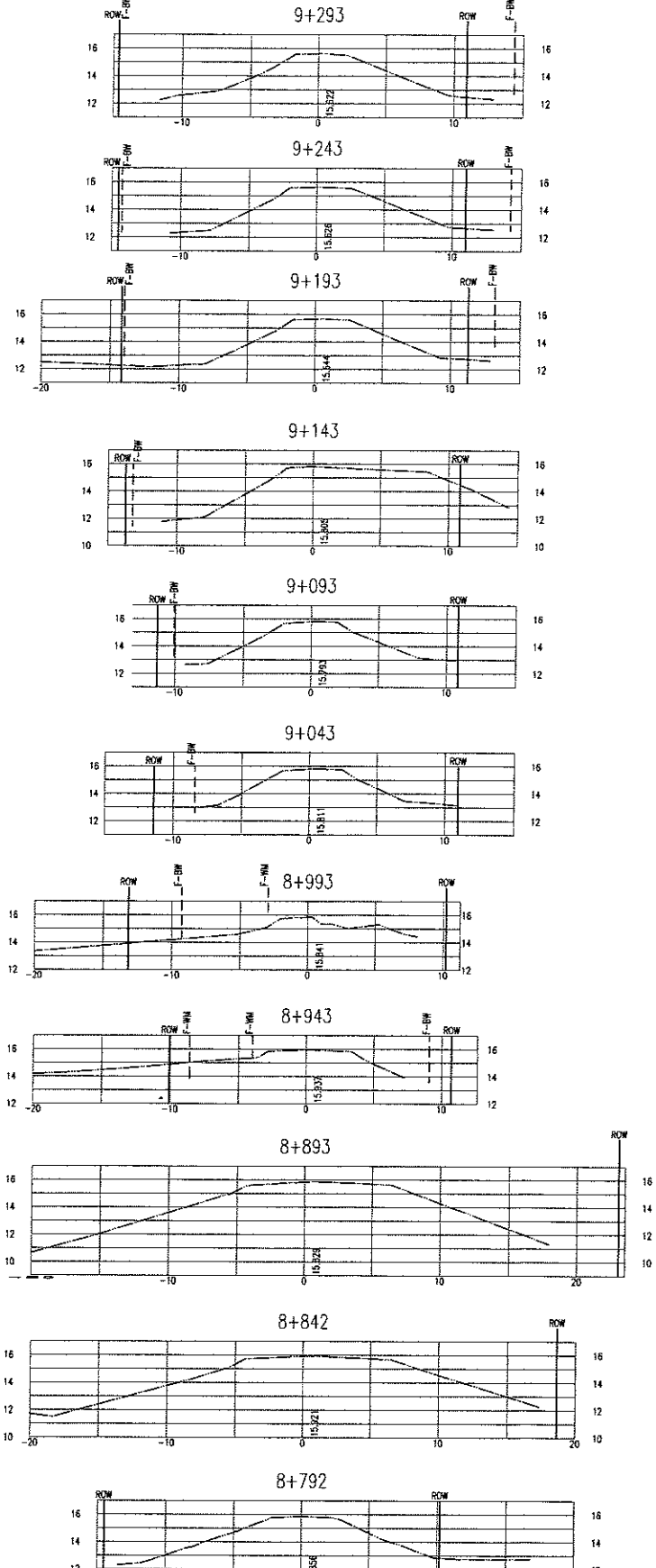
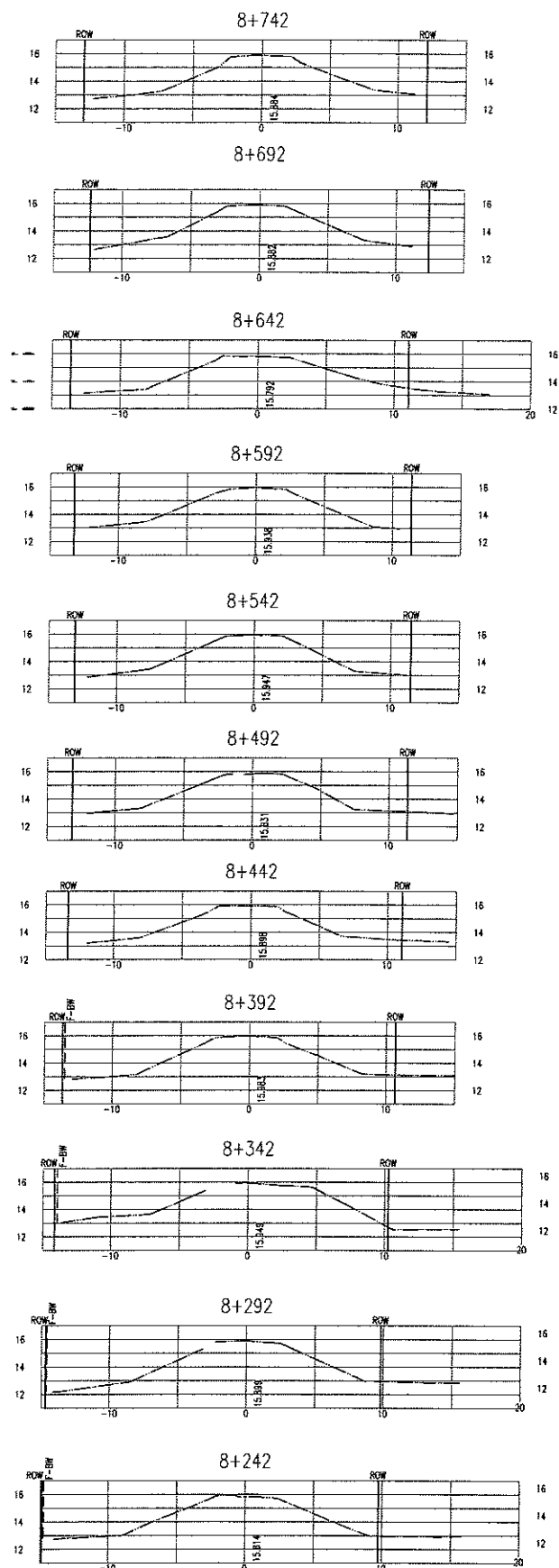
RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)



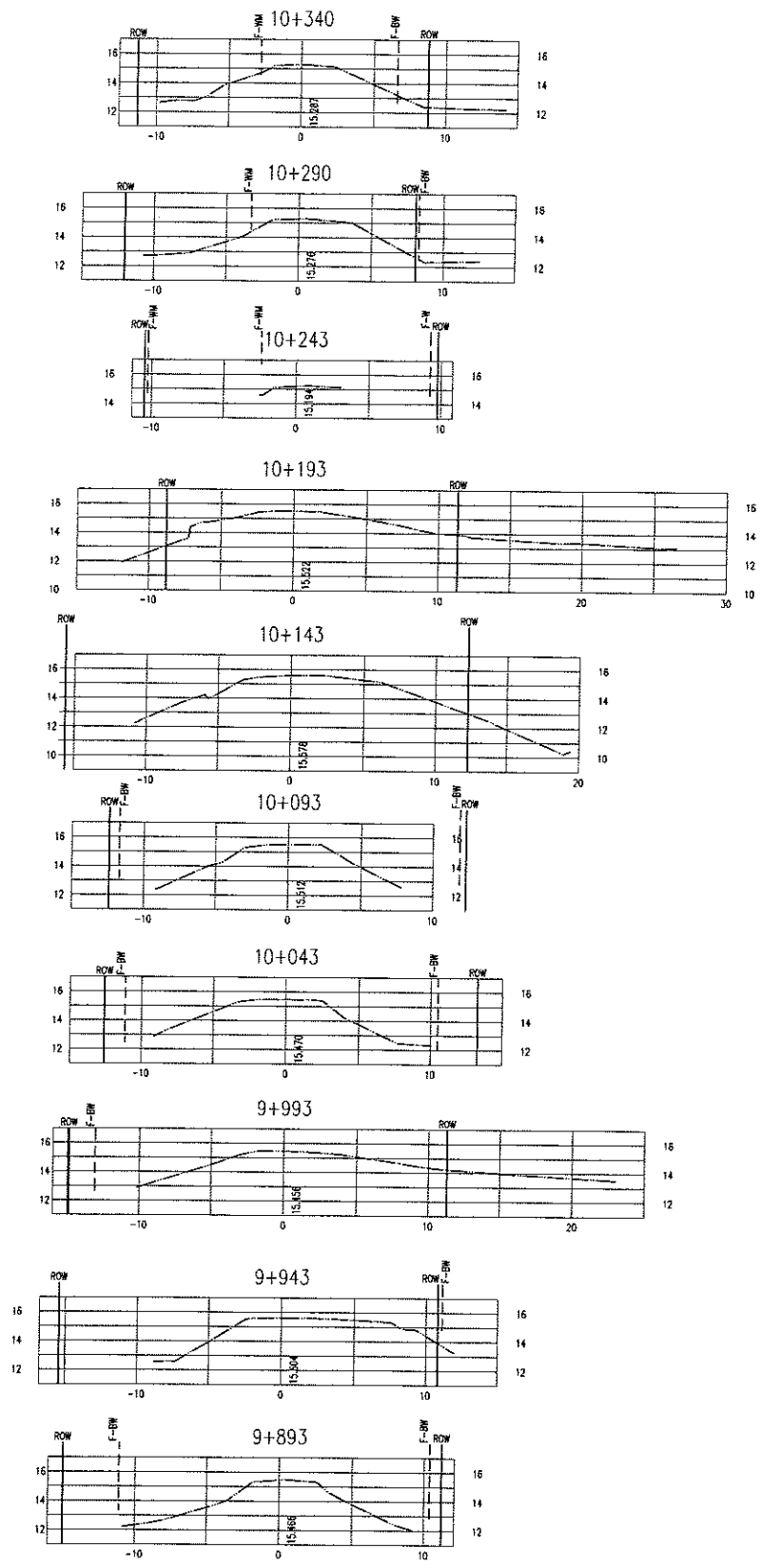
PROFESSIONAL
ENGINEER
JOHN W. S. BOYLE
OCT 11, 2007

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| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|---------|--------------|----------|----------|--------------------|----------------------------|-------|------|-------|-------|--------|-------------|---------------|----------|---------------------|---|---|-----------------|----------------------|---------------|---------|----------------------------------|
| AutoCAD DRAWING | | ISSUE B | DATE JUN8/07 | DRAWN KS | CHK'D JS | APPR'D [Signature] | DESCRIPTION RECORD DRAWING | ISSUE | DATE | DRAWN | CHK'D | APPR'D | DESCRIPTION | DESIGNED J.S. | DRAWN KS | CHECKED [Signature] | Dayton & Knight Ltd. CONSULTING ENGINEERS #210-888 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com | CITY OF CHILLIWACK FRASER RIVER EAST DYKE UPGRADES STA. 7+400 TO 10+750 CROSS SECTIONS | SCALE: H. 1:250 | DRAWING No. 186.78.1 | SHEET 9 OF 11 | ISSUE B | THIS DRAWING REDUCED TO HALFSIZE |
| PLOT: FULL 1:1 HALF 1:2 | | | | | | | | | | | | | | | | | | | | | | | |

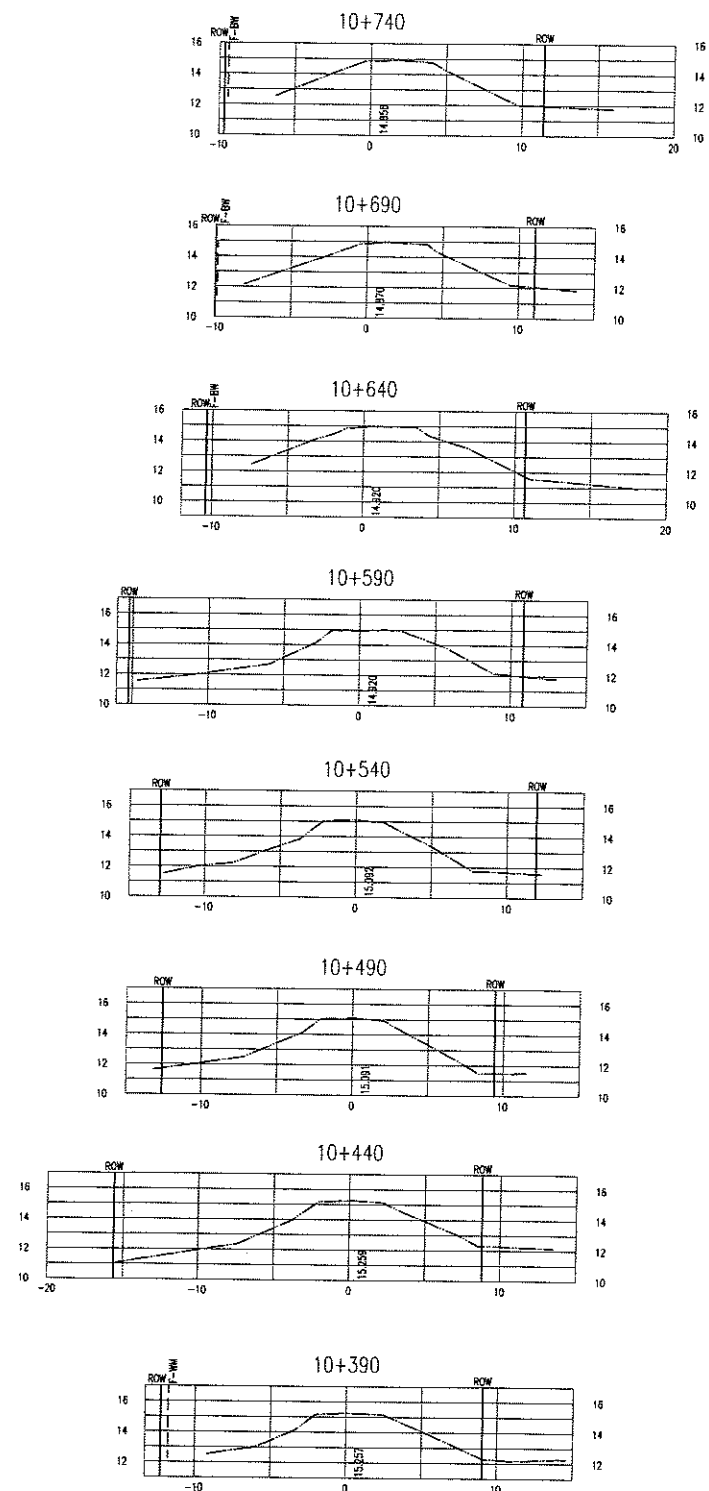
LAND SIDE (TYP.)

RIVER SIDE (TYP.)



LAND SIDE (TYP.)

RIVER SIDE (TYP.)



PROFESSIONAL
ENGINEER
COLUMBIA
OCT 11, 2007

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PLT: FULL 1:1 HALF 1:2

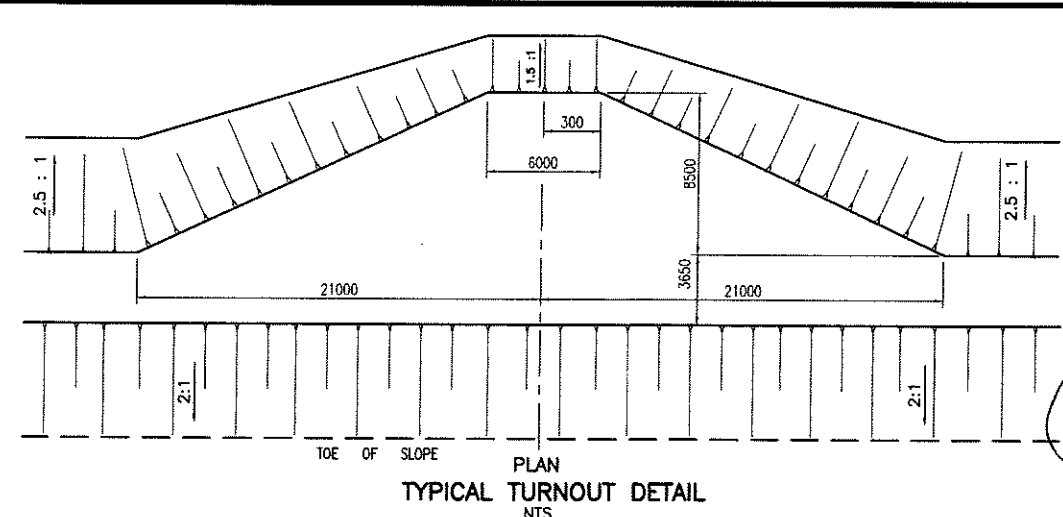
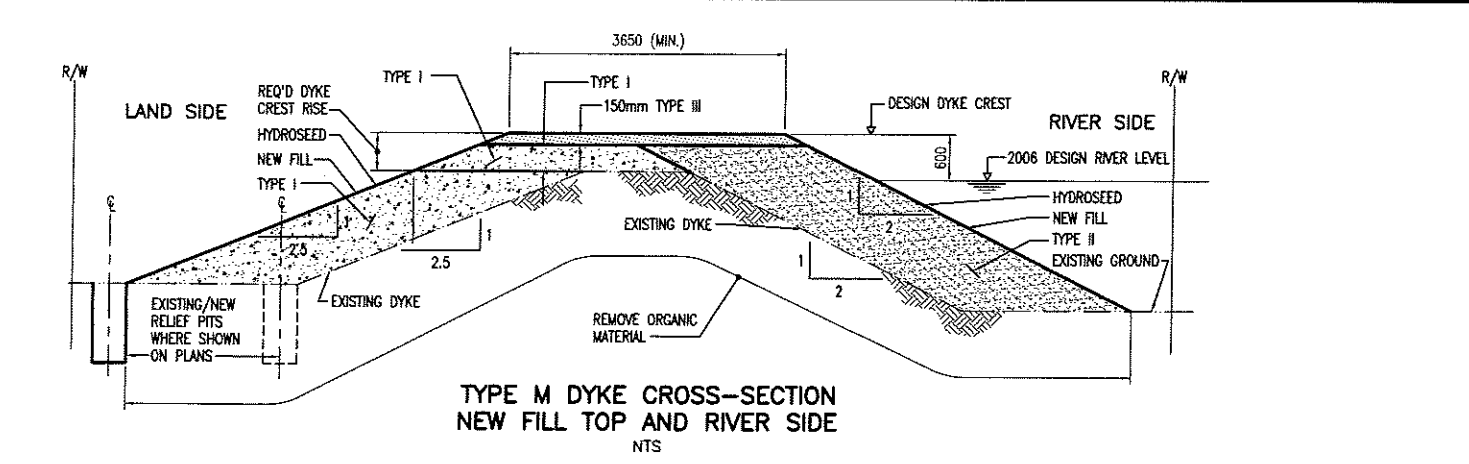
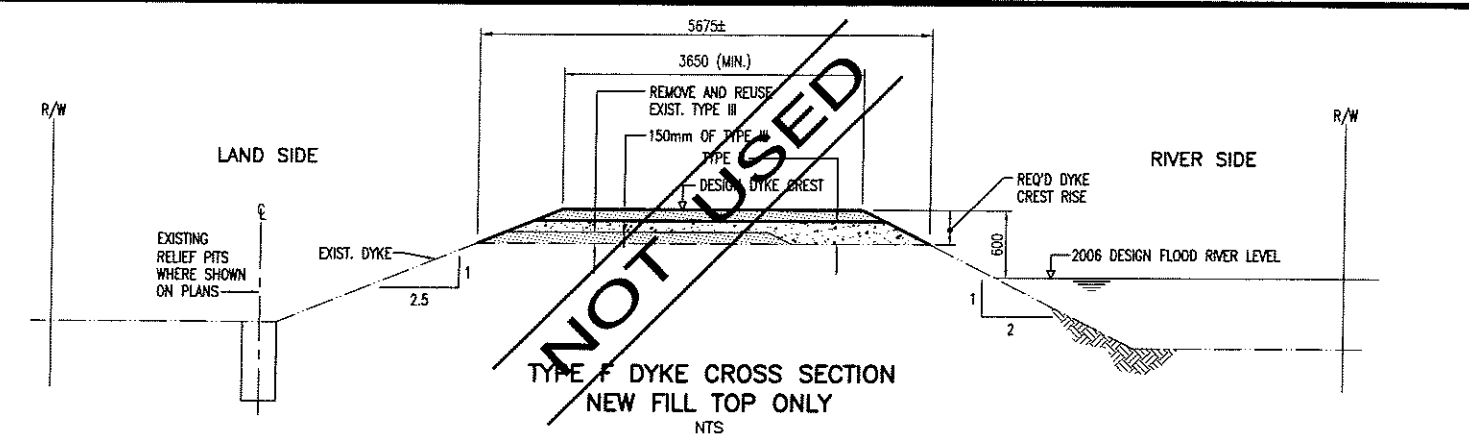
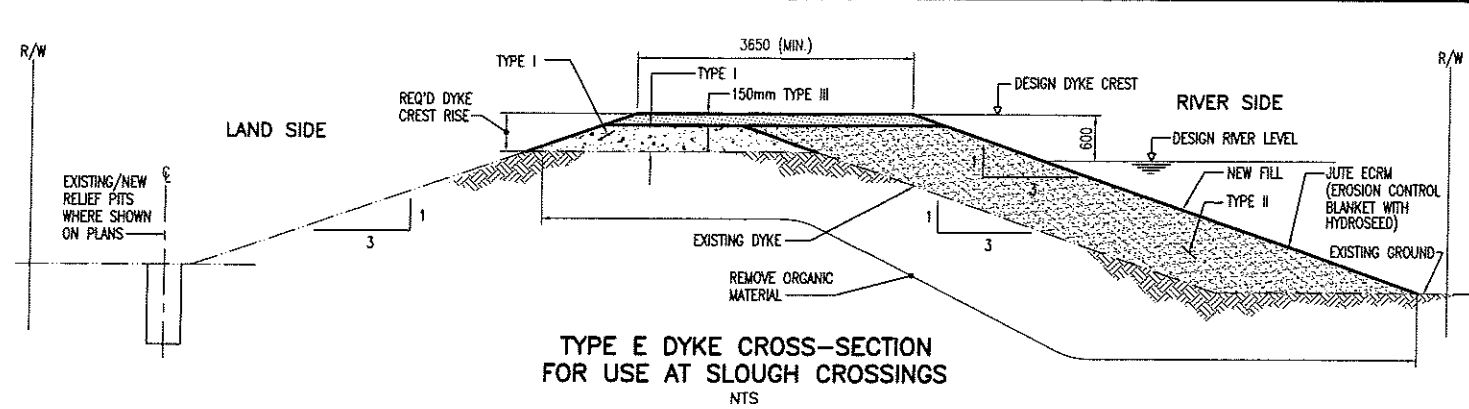
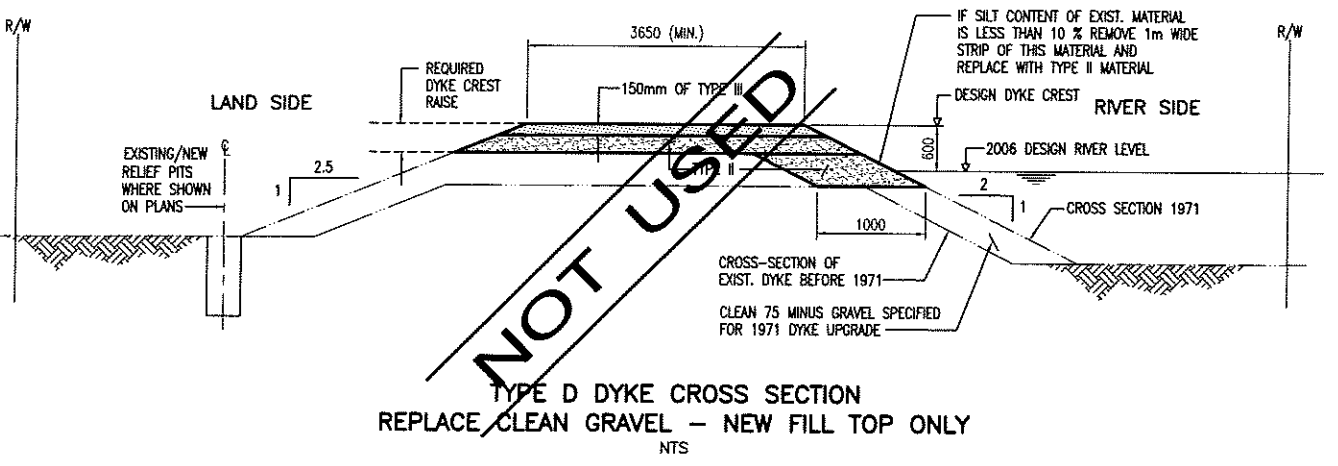
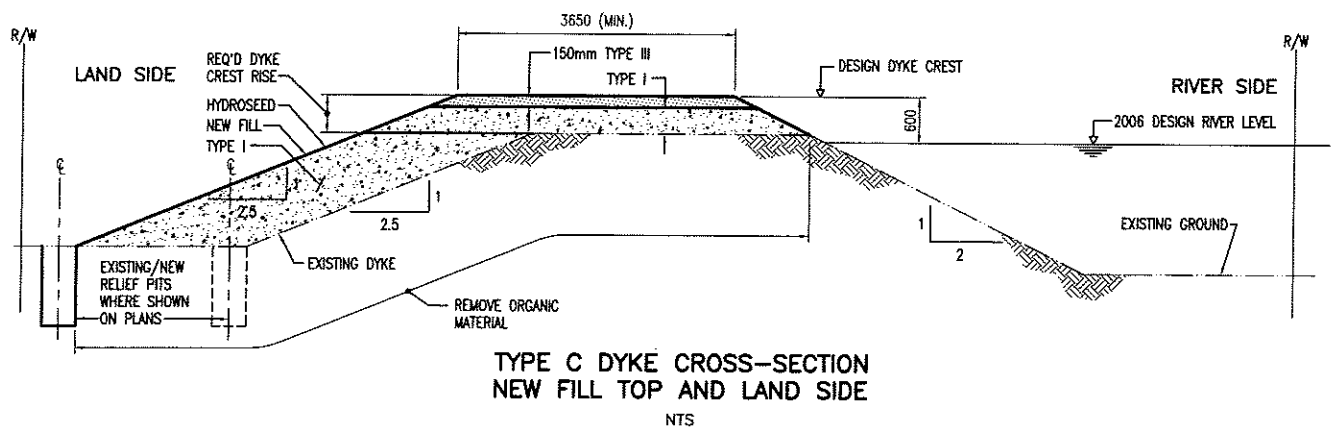
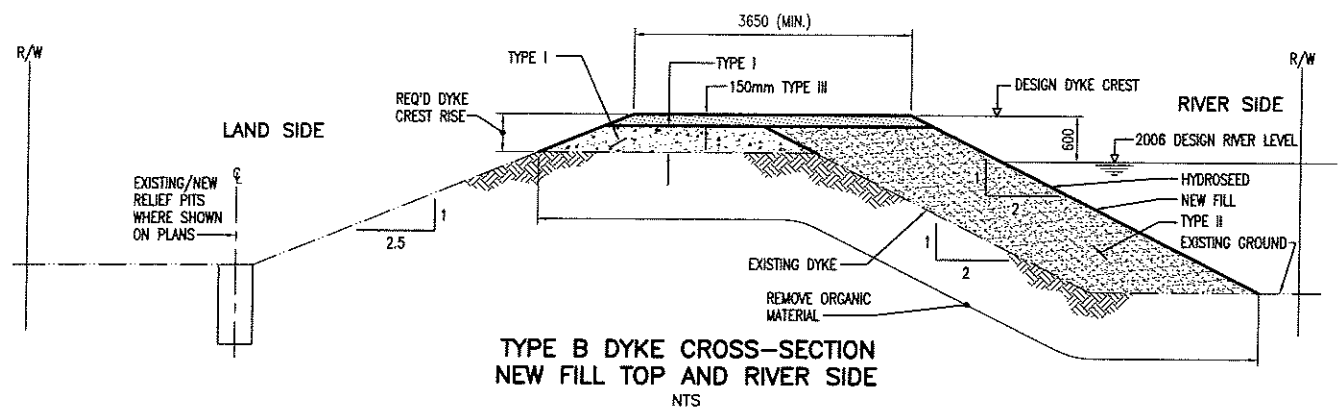
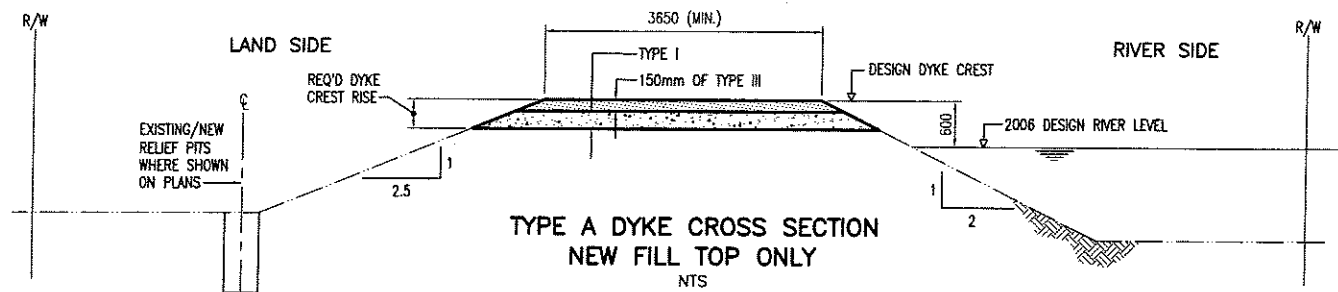
| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|---------|-------|-------|--------------------|----------------|
| B | JUN8/07 | KS | JS | <i>[Signature]</i> | RECORD DRAWING |

DESIGNED J.S.
DRAWN KS
CHECKED *[Signature]*

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 7+400 TO 10+750
CROSS SECTIONS

SCALE: H. 1:250
DRAWING No. 186.78.1
SHEET 10 OF 11 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE



PROFESSIONAL ENGINEER
 PROVINCE OF
 BRITISH COLUMBIA
 JOHN W. CARROLL
 OCT 11, 2007

DYKE MATERIALS (SEE SPECIFICATIONS - SECTION 2.03)

- TYPE I - 75 mm GRAVELLY SAND
- TYPE II - 75 mm GRAVEL
- TYPE III - 19 mm CRUSHED GRAVEL

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DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

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 STA. 7+400 TO 10+750
 MISCELLANEOUS DETAILS

SCALE: AS SHOWN
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 SHEET 11 OF 11 ISSUE B
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CITY OF CHILLIWACK

FRASER RIVER EAST DYKE UPGRADES

STATION 10+750 TO 14+030

CONTRACT No. 186.78.2

RECORD DRAWING



Dayton & Knight Ltd.
CONSULTING ENGINEERS



KEY PLAN

LEGEND

| | |
|-----------|--------------------------|
| --- | NEW DESIGN CREST PROFILE |
| --- | AS BUILT CREST PROFILE |
| --- | 2006 DESIGN RIVER LEVEL |
| --- | 2006 DYKE CREST |
| --- | NEW DYKE CENTERLINE |
| -x-x-x-x- | NEW FENCE |
| --- | * FRFCP DYKE CREST |
| RP301 | OLD RELIEF PITS |
| RP303 | OLD DYKE CENTERLINE |
| | WOOD FENCE |
| ▲ | WIRE MESH FENCE |
| -x-x-x-x- | BARBED WIRE FENCE |
| ⚡ | ELECTRIC FENCE |
| W | WATER |
| G | GAS |
| T | TELUS |
| ST | STORM |
| — | CULVERT |
| — | RIP RAP |
| PP | POWER POLE |
| ○ | TREES/HEDGE |
| CB | CATCH BASIN |
| ○ | OLD RELIEF WELL |
| CG | CATTLE GUARD |
| S | SIGN |
| — | NO-POST BARRIER |
| G | GATE |
| — | PAVED ROAD |
| --- | GRAVEL ROAD |



AREA PLAN

* FRASER RIVER FLOOD CONTROL PROGRAM

MONUMENTS

| Monument | Northing | Easting | Elev. |
|------------|-------------|------------|--------|
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| Mon 772 | 5452212.579 | 581414.850 | 13.679 |
| Mon 770 | 5450912.413 | 583455.573 | 13.237 |
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| Mon 670A | 5450532.645 | 577236.155 | 13.469 |

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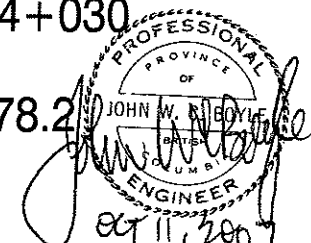
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| 2 - 6 | PLAN AND PROFILE |
| 7 - 9 | CROSS SECTIONS |
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**CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STATION 10+750 TO 14+030**

CONTRACT No. 186.78.2



| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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| B | JUN11/07 | KS | JS | [Signature] | RECORD DRAWING |

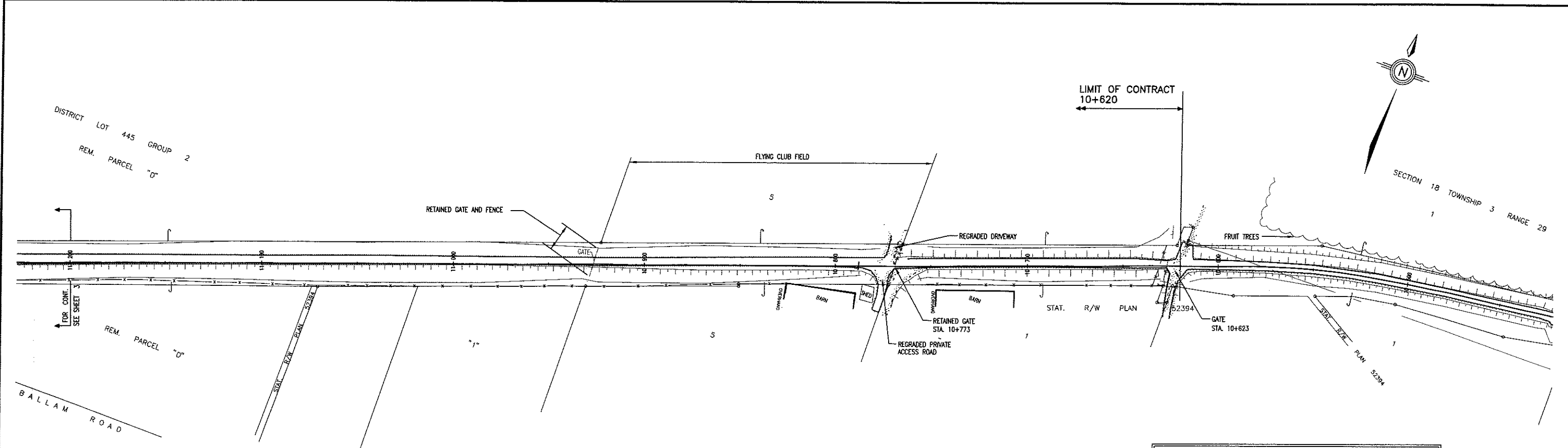
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|----------|-------------|
| DESIGNED | JS |
| DRAWN | KS |
| CHECKED | [Signature] |

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CONSULTING ENGINEERS
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TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com

CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 10+750 TO 14+030
KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND

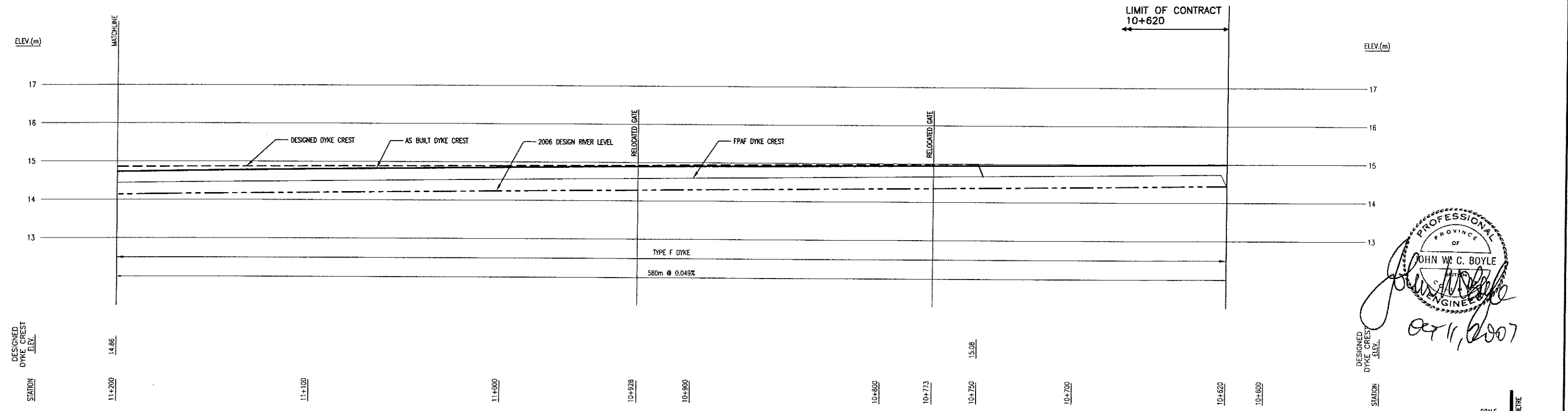
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DRAWING No. 186.78.2
SHEET 1 OF 10 ISSUE B
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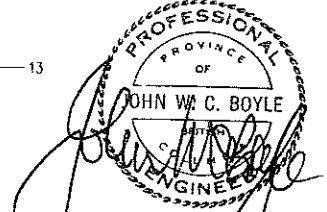


PLAN

These record drawings have been prepared based on hydraulic profile data provided by the City and on site survey information recorded by Dayton & Knight Ltd. Material gradation sizing and dyke details were provided by AMEC Earth & Environmental, in consultation with the City. Legal plan and legal information provided by Tunbridge & Tunbridge Land Surveyors.

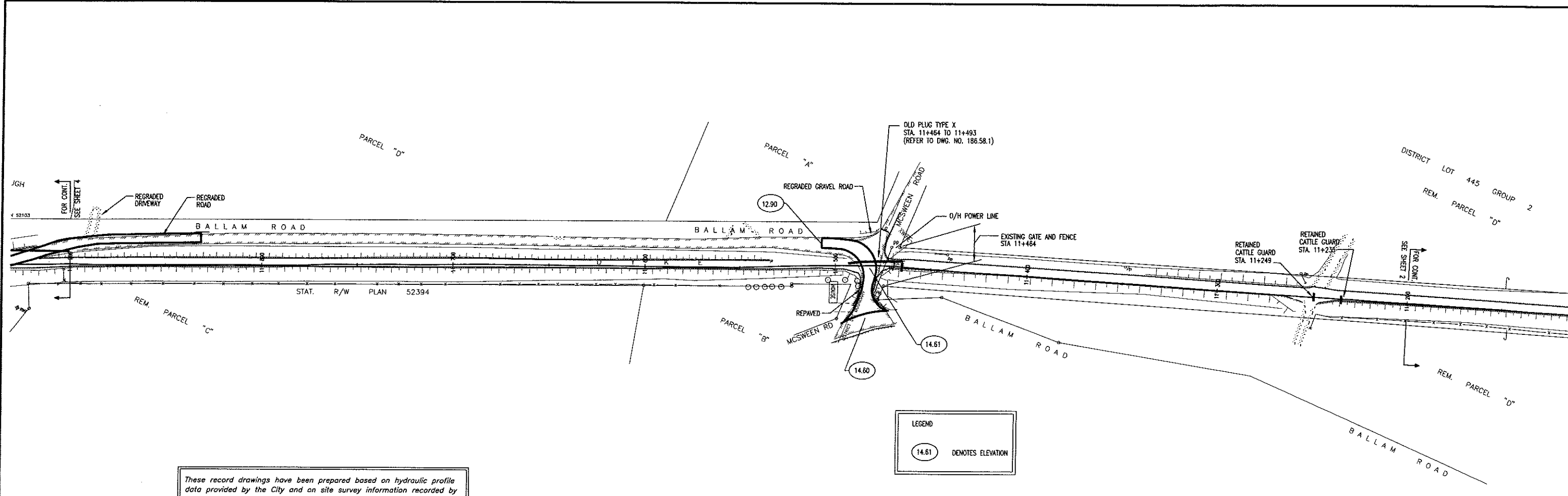


PROFILE

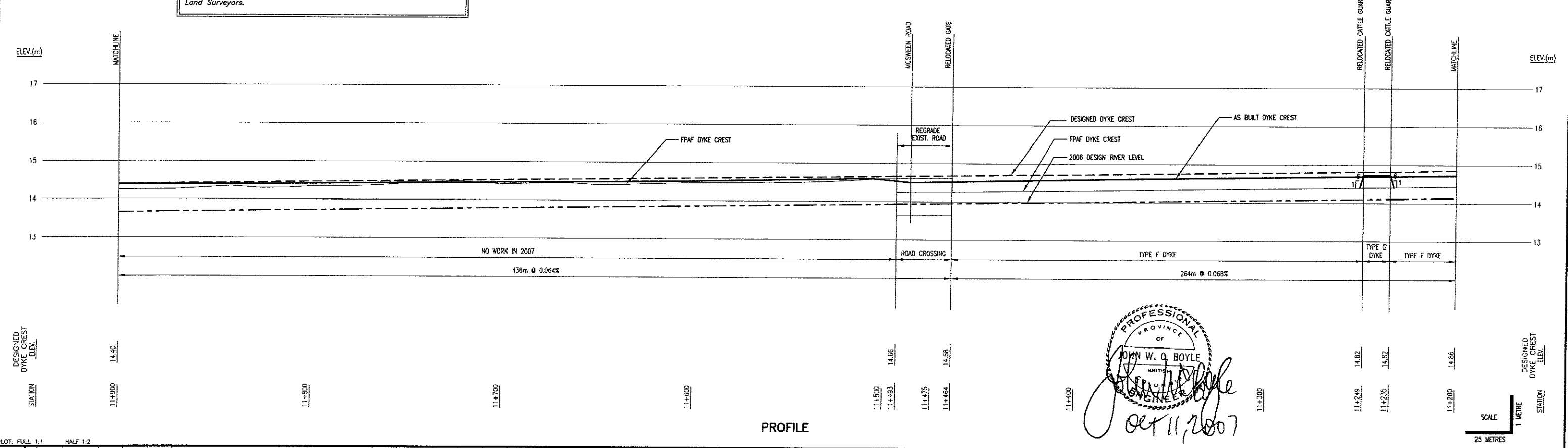


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| AutoCAD DRAWING REVISIONS B JUN5/07 KS JS 157 RECORD DRAWING | | DESIGNED J.S. DRAWN KS CHECKED JWS | | Dayton & Knight Ltd. CONSULTING ENGINEERS #210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 5S1 TEL.: (604) 990-4800 FAX: (604) 990-4806 www.dayton-knight.com | | CITY OF CHILLIWACK FRASER RIVER EAST DYKE UPGRADES STA. 10+750 TO 14+030 PLAN AND PROFILE | | SCALE: H. 1:1000; V. 1:50 DRAWING No. 186.78.2 SHEET 2 OF 10 ISSUE B THIS DRAWING REDUCED TO HALFSIZE | |
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PLAN



PROFILE

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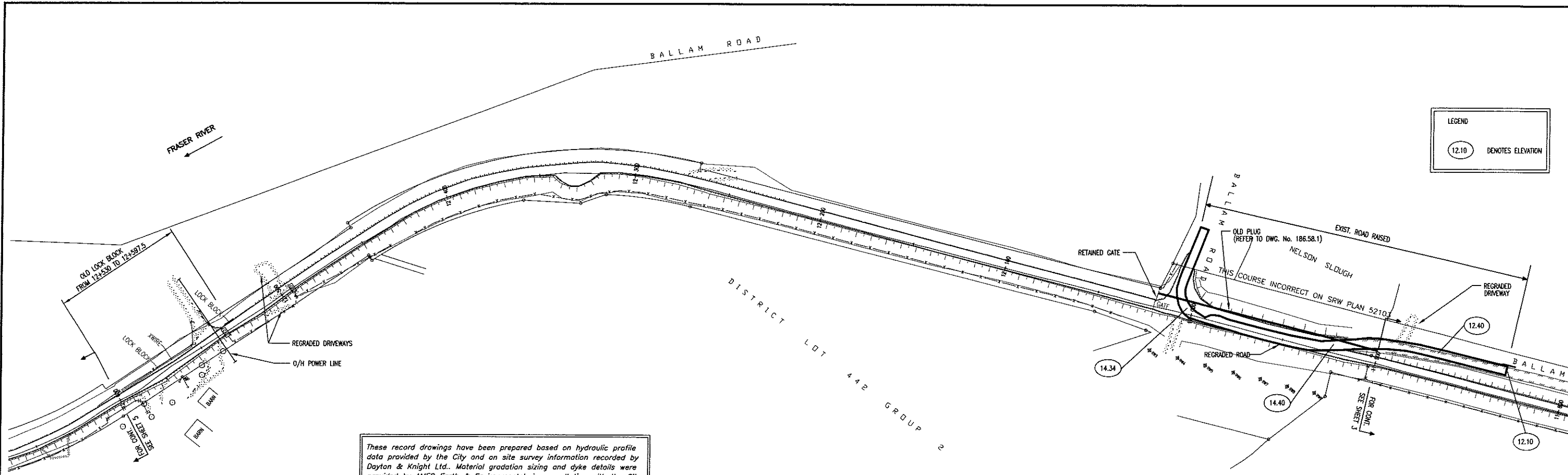
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| B | JUN/07 | KS | JS | [Signature] | RECORD DRAWING |

DESIGNED: J.S.
 DRAWN: KS
 CHECKED: [Signature]

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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 10+750 TO 14+030
 PLAN AND PROFILE

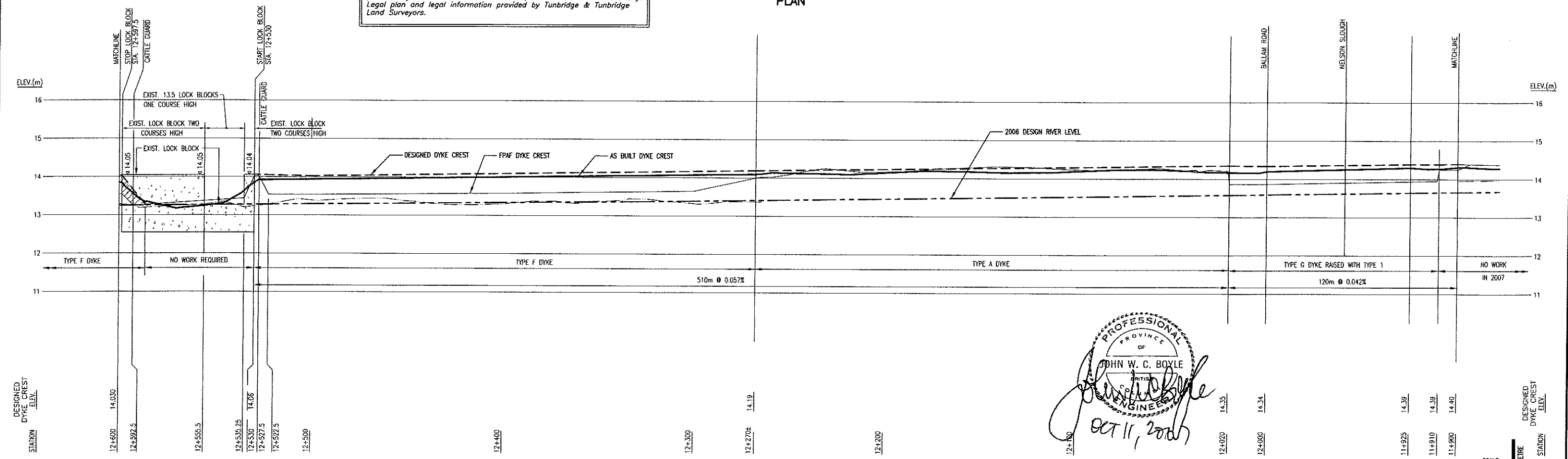
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 DRAWING No. 186.78.2
 SHEET 3 OF 10 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE



LEGEND
 (12.10) DENOTES ELEVATION

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PLAN



PROFILE

FILE: P:\Records\Chilliwack\186-...-2\SR14_5_6.dwg Tab: SR14_07-09-25.kit

PLOT: FULL 1:1 HALF 1:2

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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| B | JUN5/07 | KS | JS | [Signature] | RECORD DRAWING |

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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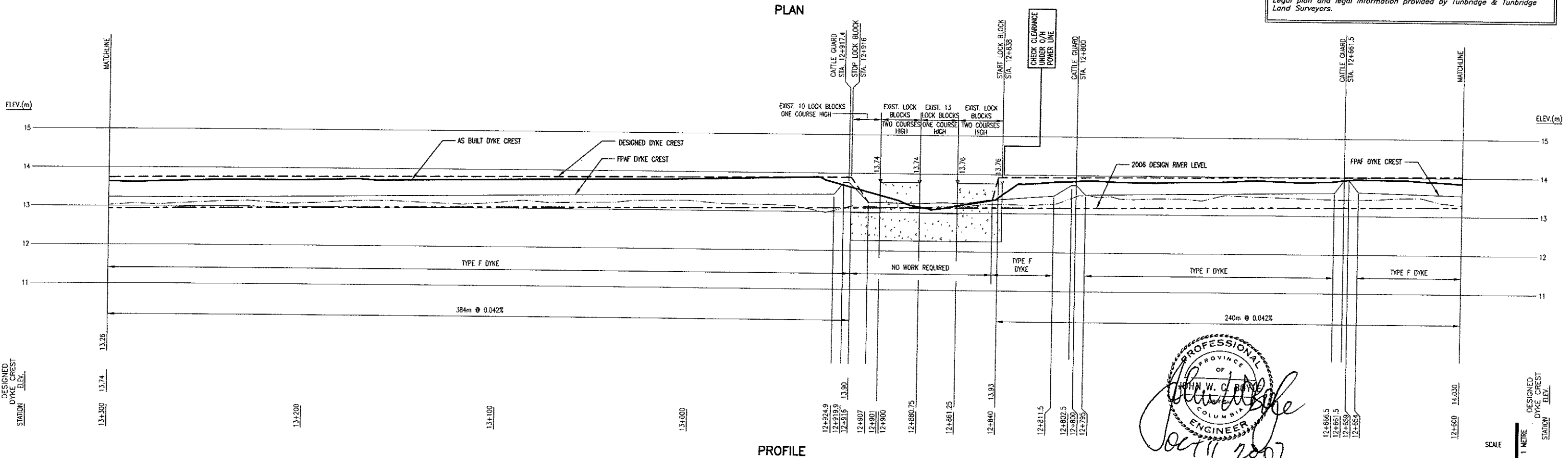
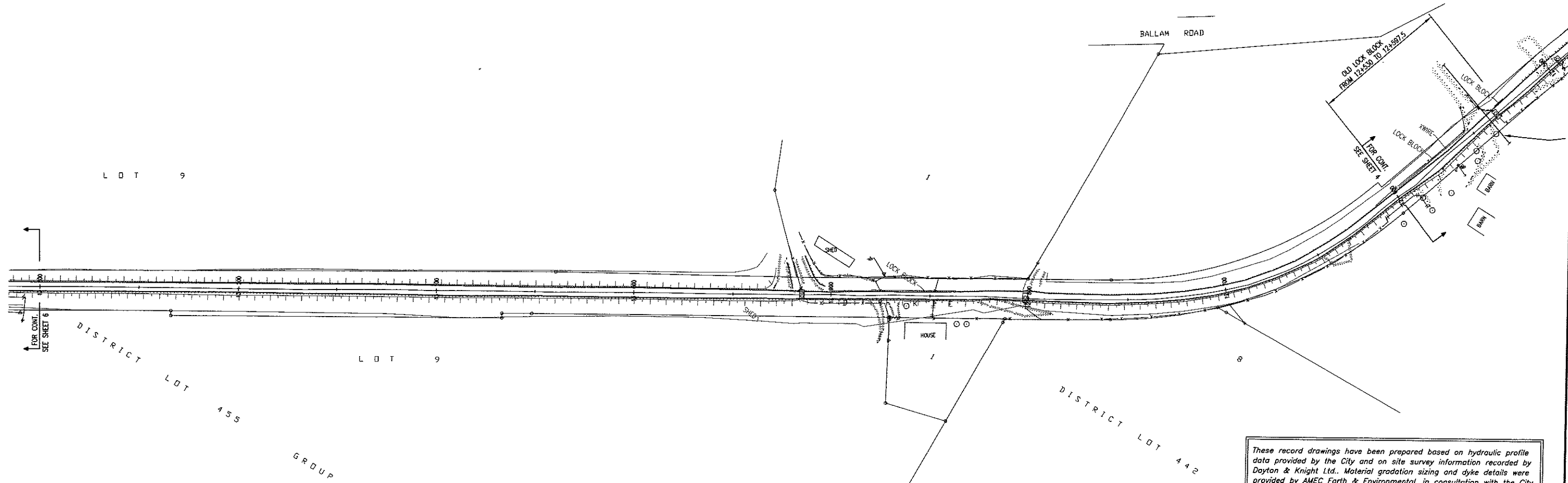
DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

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PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 JOHN W. C. BOYLE
 OCT 11, 2007

CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 10+750 TO 14+030
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.2
 SHEET 4 OF 10 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE



PROFESSIONAL
ENGINEER
JOHN W. C. ROY
OCT 11, 2007

FILE: P:\Records\Chilliwack\18678_2\18678_2.dwg, Top SHTS 07-09-25 KIT

PLOT: FULL 1:1 HALF 1:2

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|------|-------|-------|-------|-------------|
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DESIGNED J.S.
DRAWN KS
CHECKED [Signature]

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 10+750 TO 14+030
PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
DRAWING No. 186.78.2
SHEET 5 OF 10 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

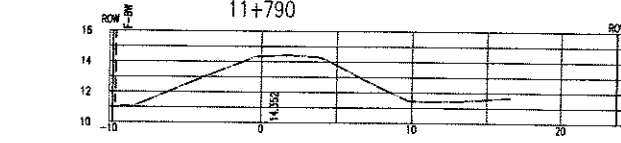
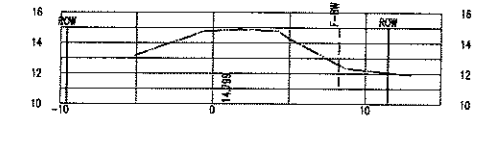
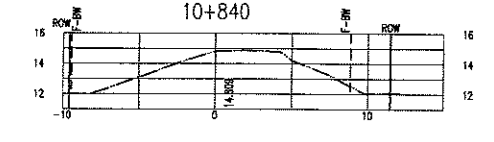
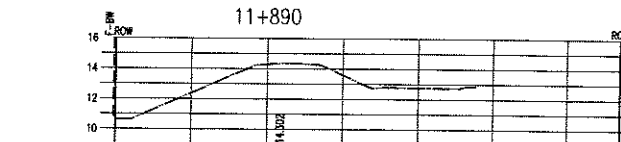
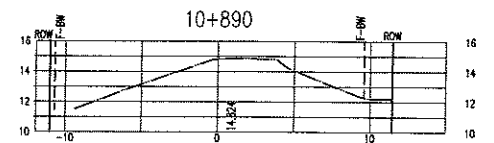
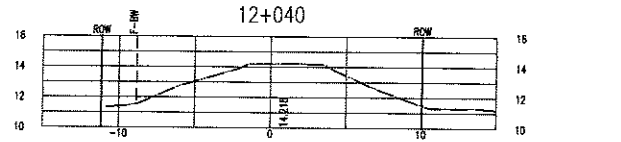
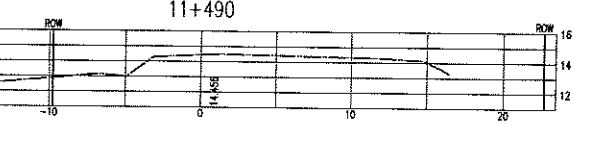
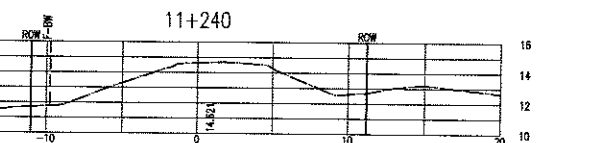
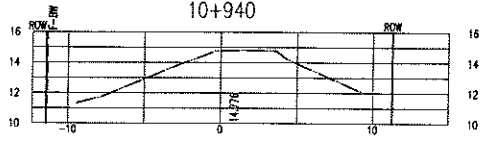
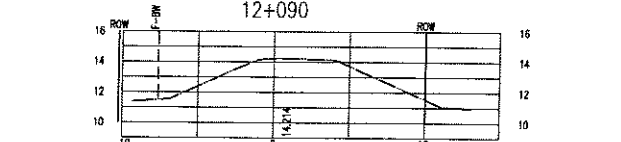
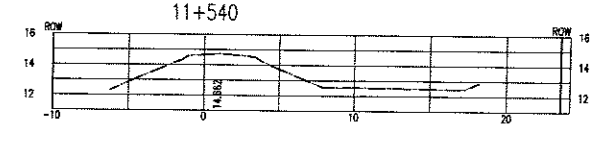
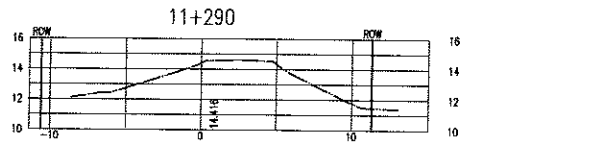
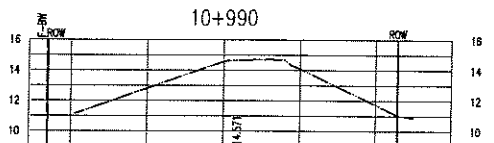
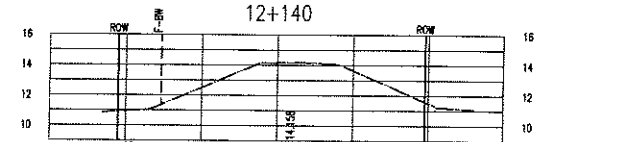
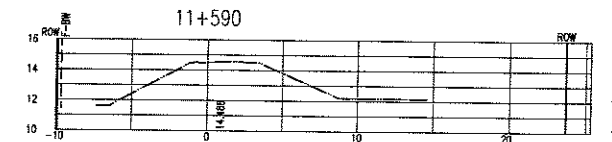
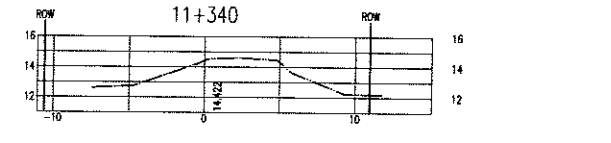
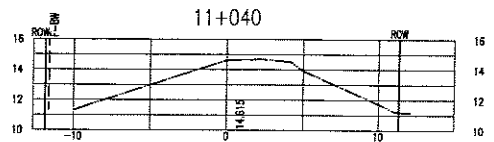
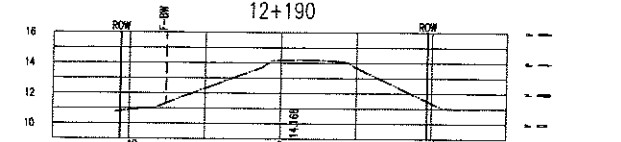
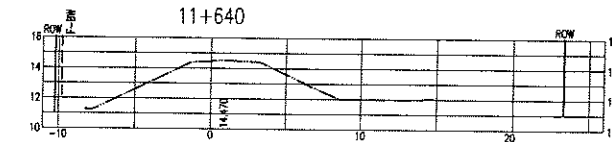
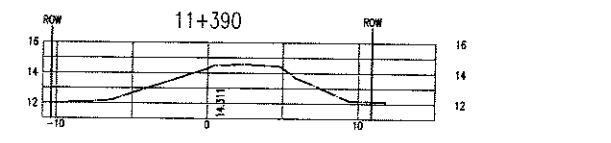
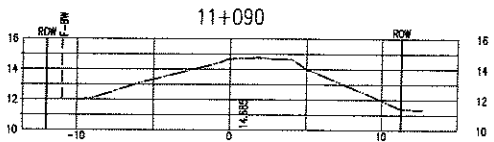
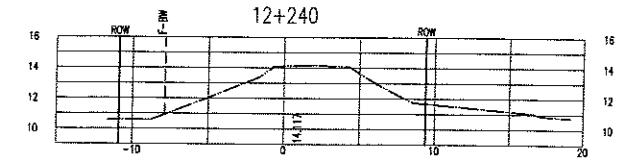
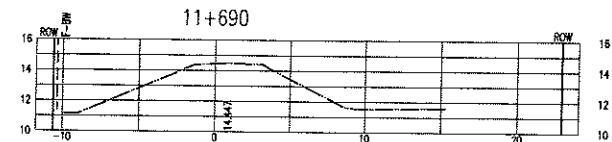
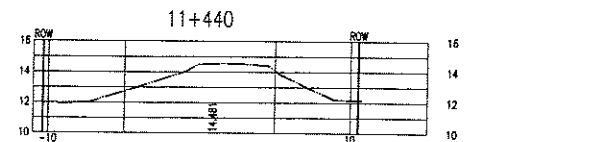
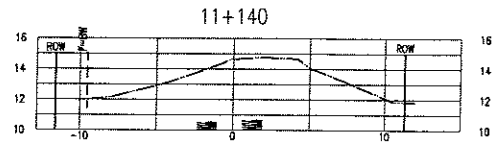
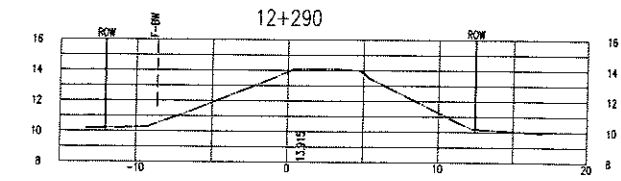
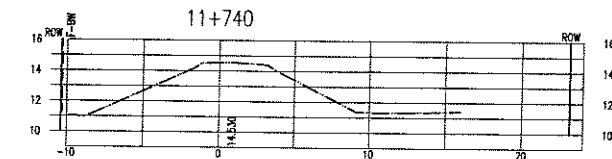
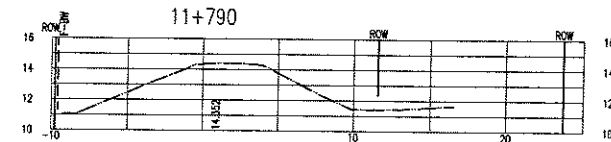
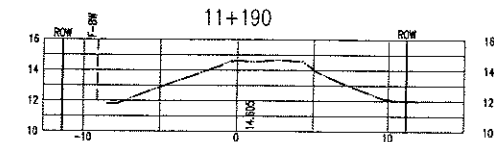
RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)



Professional Engineer seal for John W. Boyd, dated Oct 11, 2007.

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NOTE: FOR NEW DYKE CREST ELEVATIONS REFER TO PLAN AND PROFILE DRAWINGS

Table with columns for ISSUE, DATE, DRAWN, CHK'D, APP'D, and DESCRIPTION. Includes revision history and design approval.

DESIGNED: J.S.
DRAWN: KS
CHECKED: [Signature]

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 10+750 TO 14+030
CROSS SECTIONS

SCALE: H. 1:250
DRAWING No. 185.78.2
SHEET 7 OF 10 ISSUE B
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LAND SIDE (TYP.)

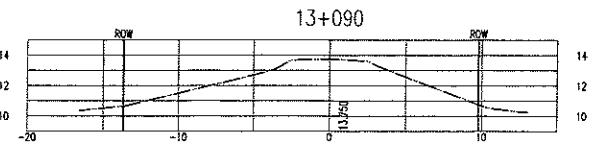
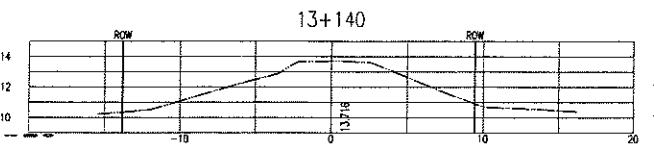
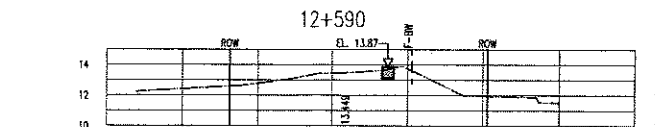
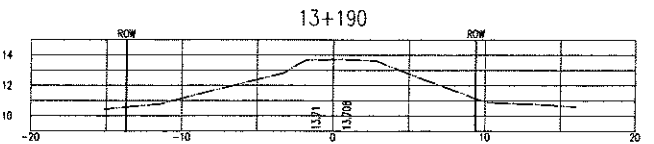
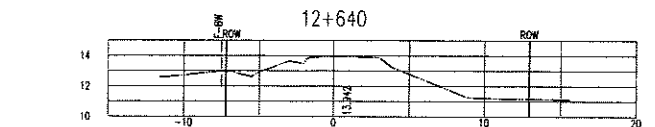
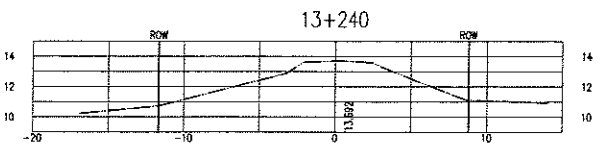
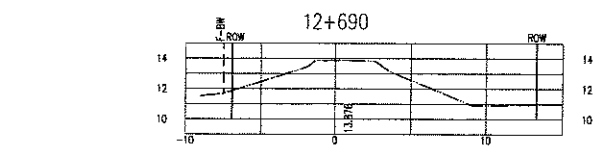
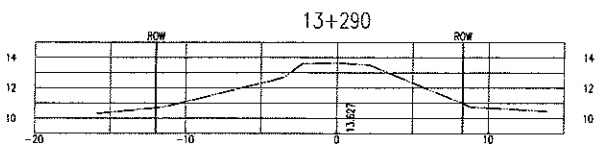
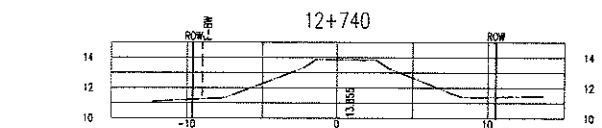
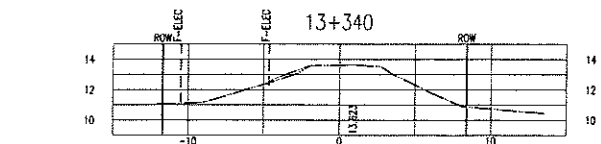
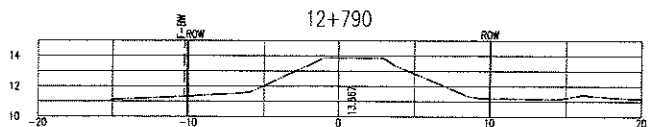
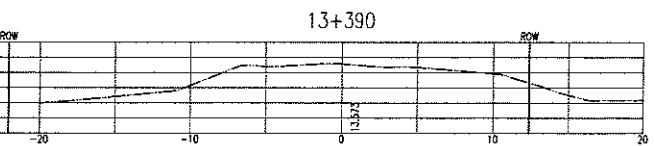
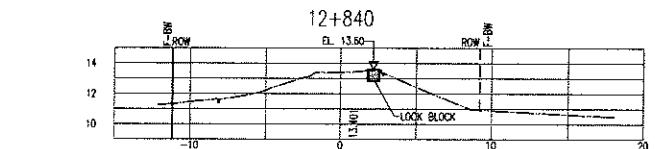
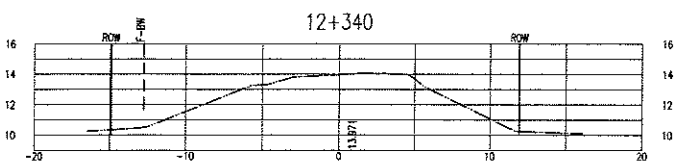
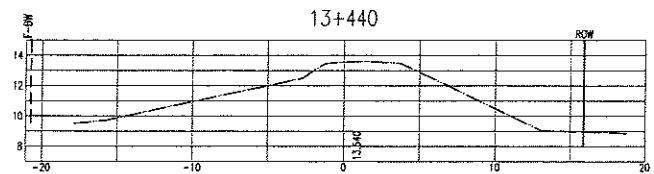
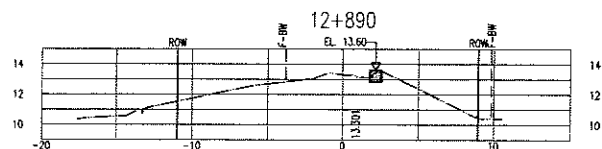
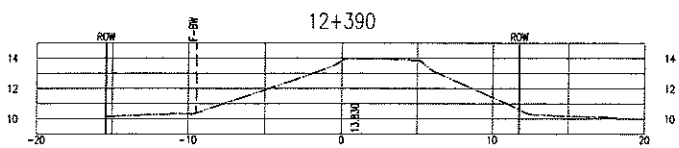
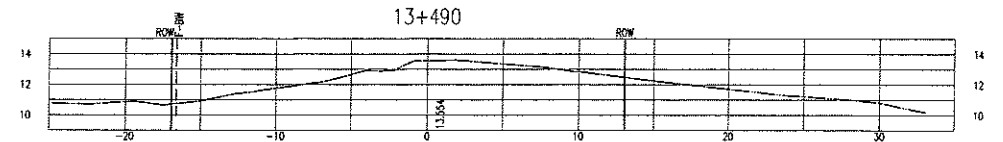
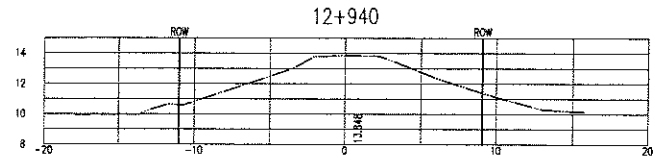
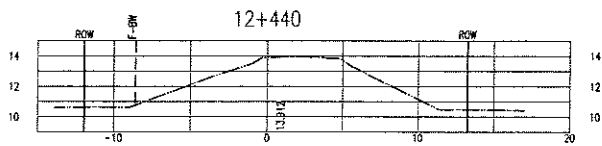
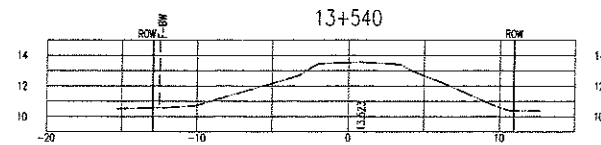
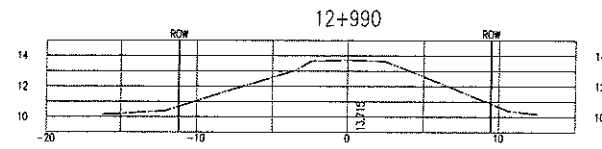
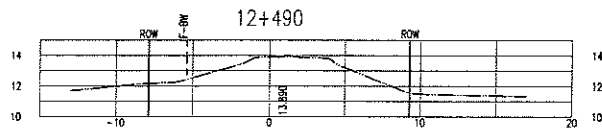
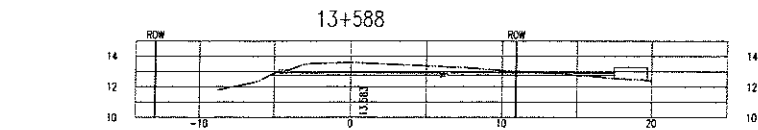
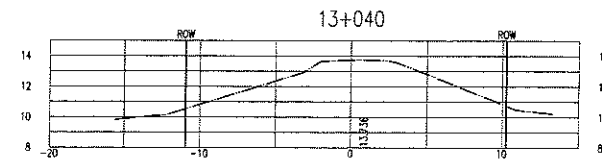
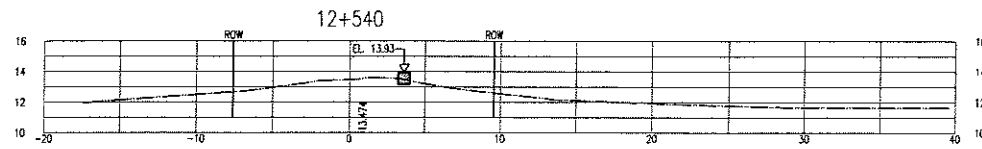
RIVER SIDE (TYP.)

LAND SIDE (TYP.)

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PROFESSIONAL
OF
JOHN W. C. BOYLE
REGISTERED
CIVIL
ENGINEER
OCT 11, 2007

NOTE:
FOR NEW DYKE
CREST ELEVATIONS
REFER TO PLAN AND
PROFILE DRAWINGS

FILE: P:\Borwick\Chilliwack\186-78-2\Stationing\Tab_Meas_07-07-04.kit

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|---------|-------|-------|-------------|----------------|
| B | JUN5/07 | KS | JS | [Signature] | RECORD DRAWING |

DESIGNED J.S.
DRAWN KS
CHECKED [Signature]

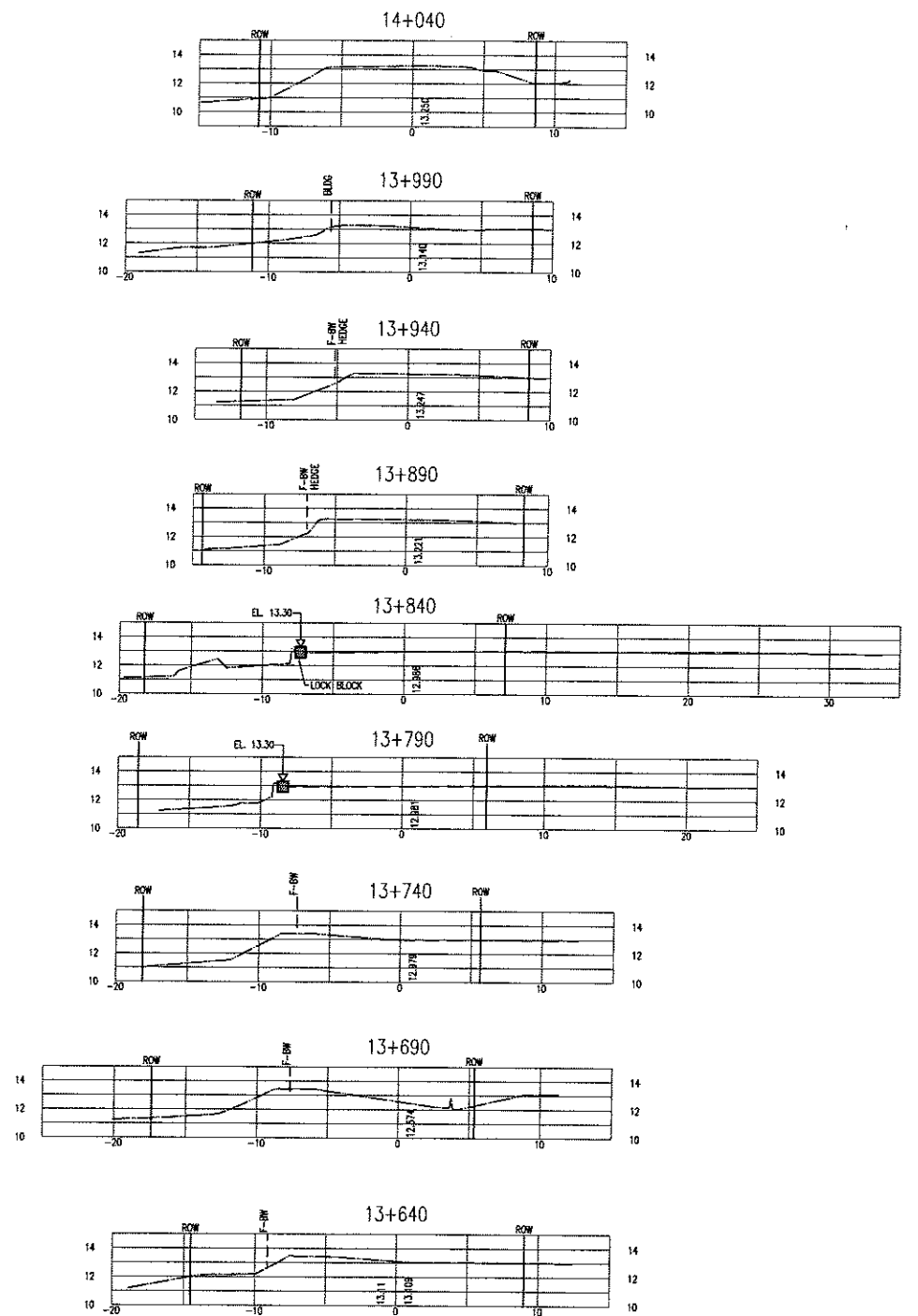
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TEL: (604) 890-4800 FAX: (604) 990-4805 www.dayton-knight.com

CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 10+750 TO 14+030
CROSS SECTIONS

SCALE: 1:250
DRAWING No. 186.78.2
SHEET 8 OF 10 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE

LAND SIDE (TYP.)

RIVER SIDE (TYP.)



PROFESSIONAL
OF
JOHN W. C. BOYLE
ENGINEER
OCT 4, 2007

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NOTE:
FOR NEW DYKE
CREST ELEVATIONS
REFER TO PLAN AND
PROFILE DRAWINGS

FILE: P:\Recap\Chilliwack\186-78-2\Drawings\186-78-2-07-04.dwg

PLOT: FULL 1:1 HALF 1:2

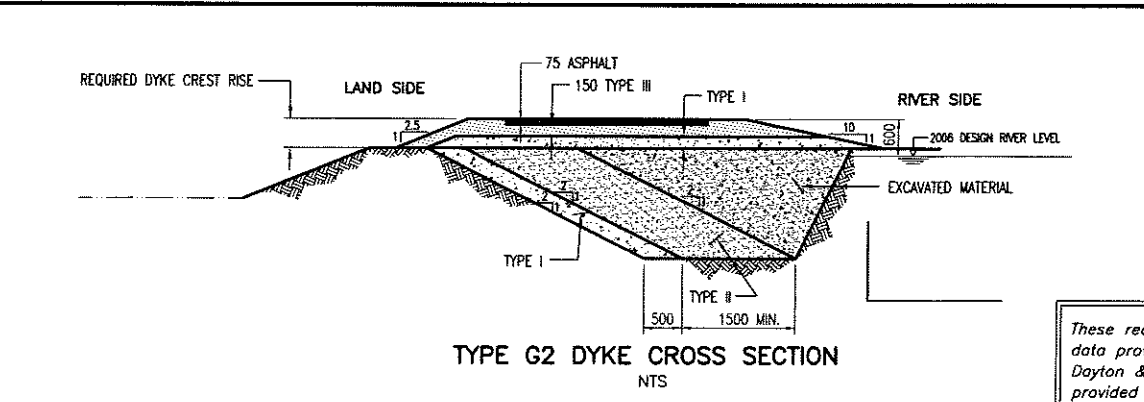
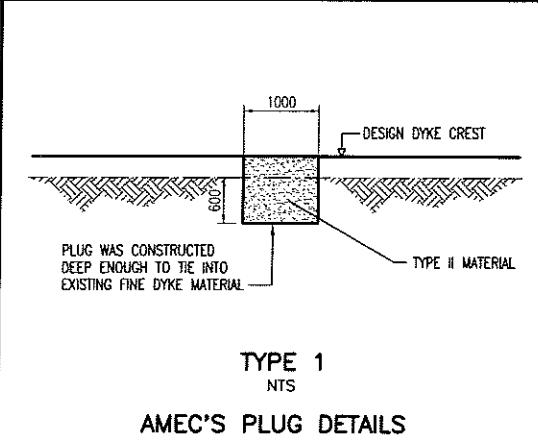
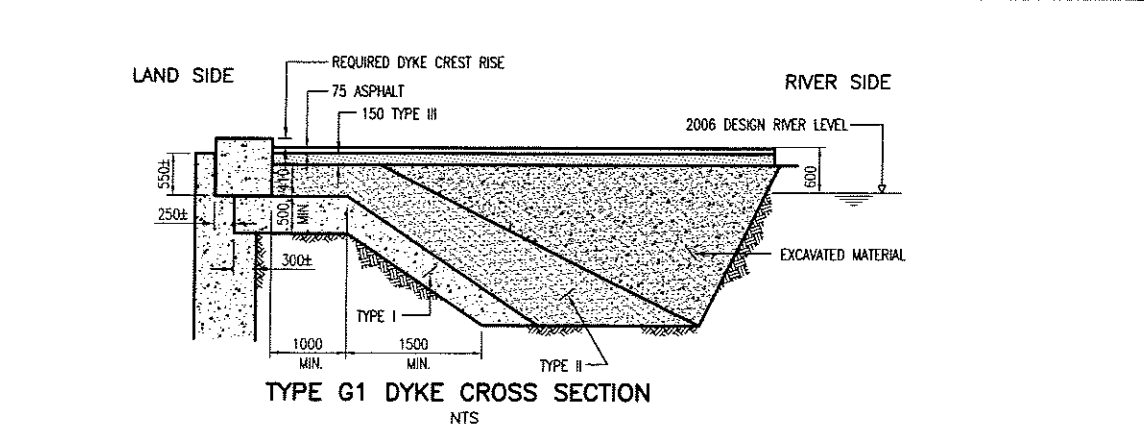
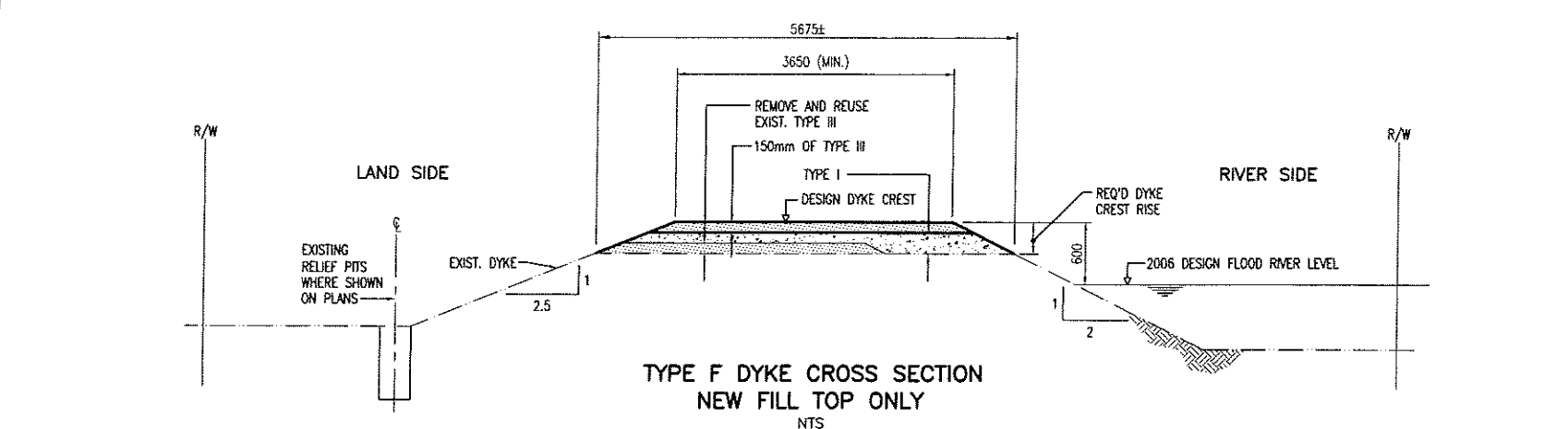
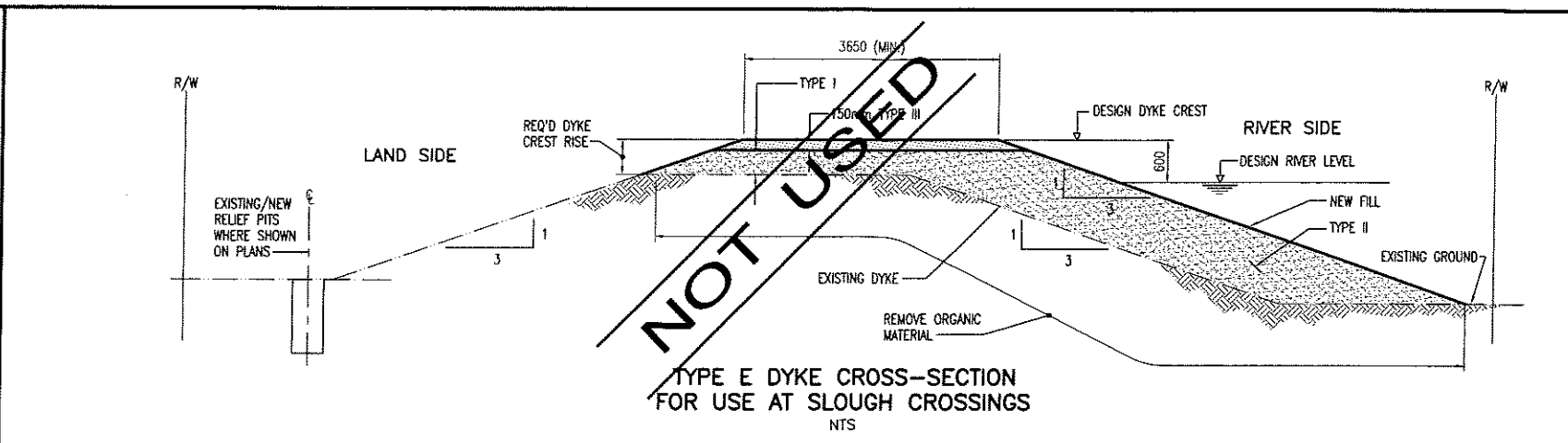
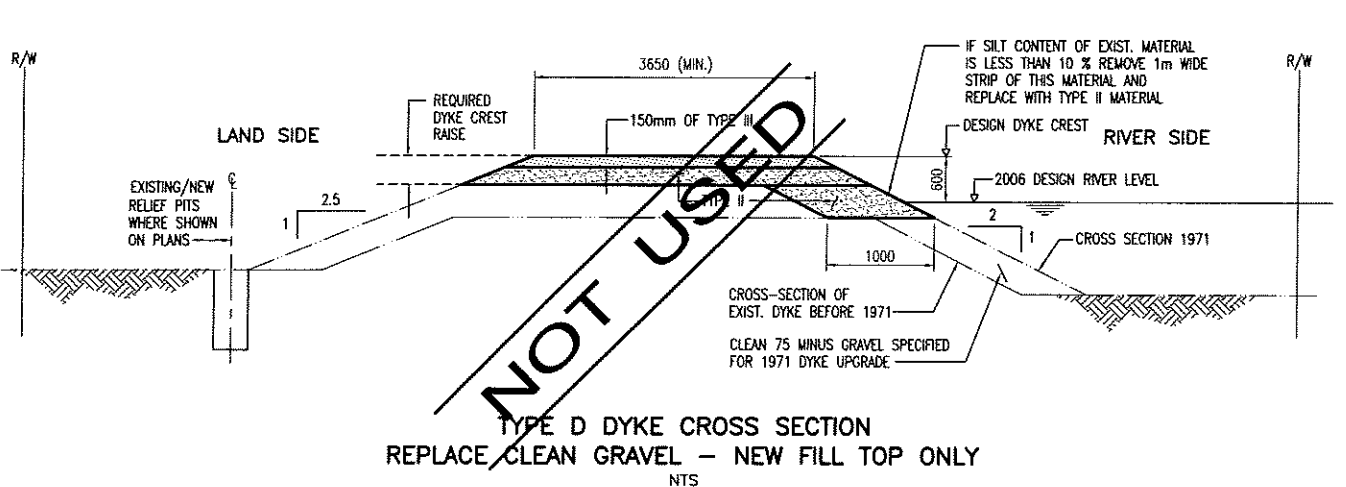
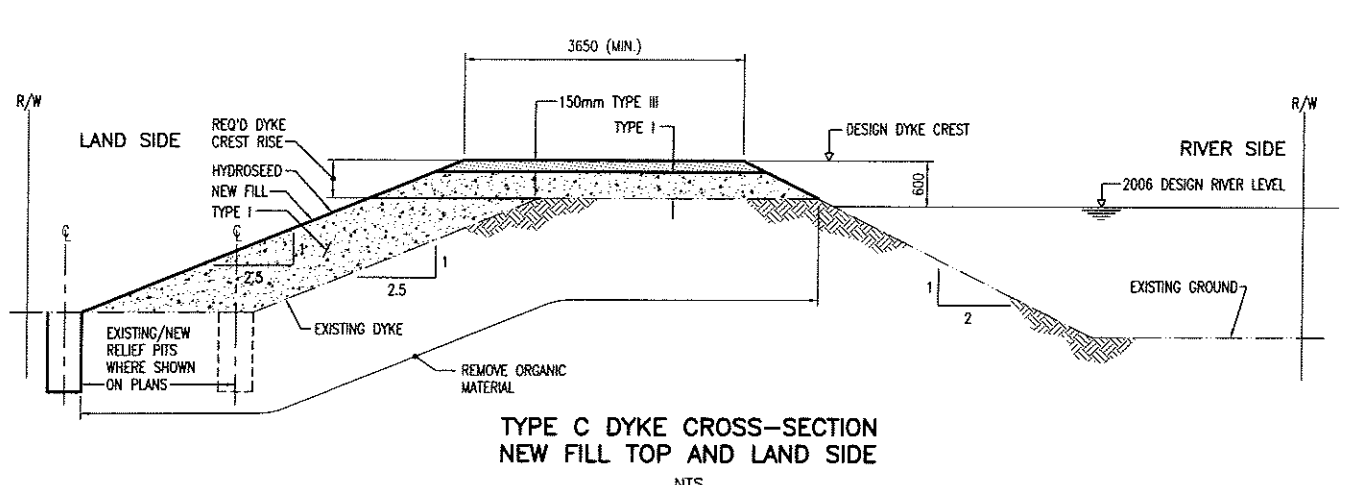
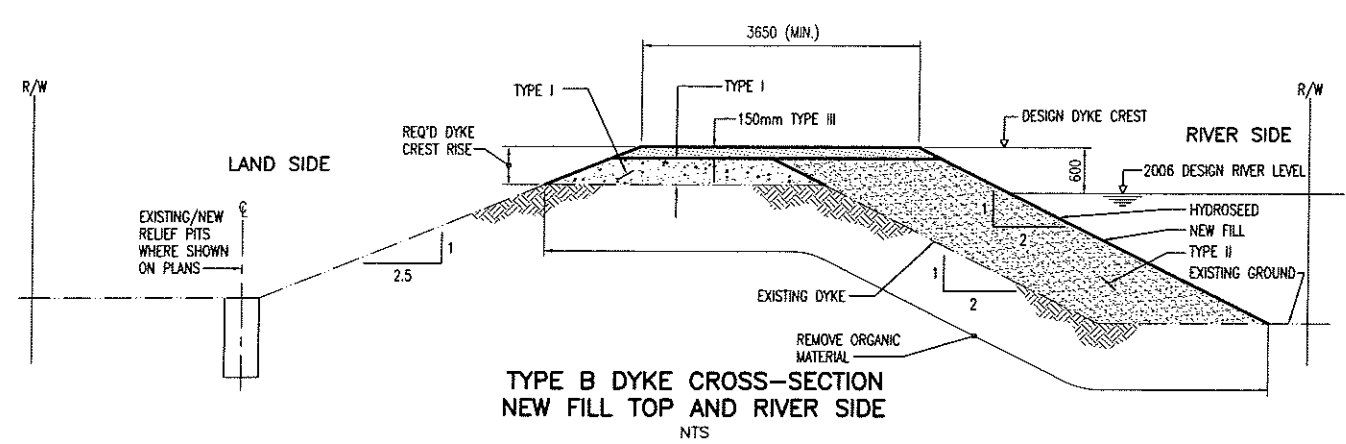
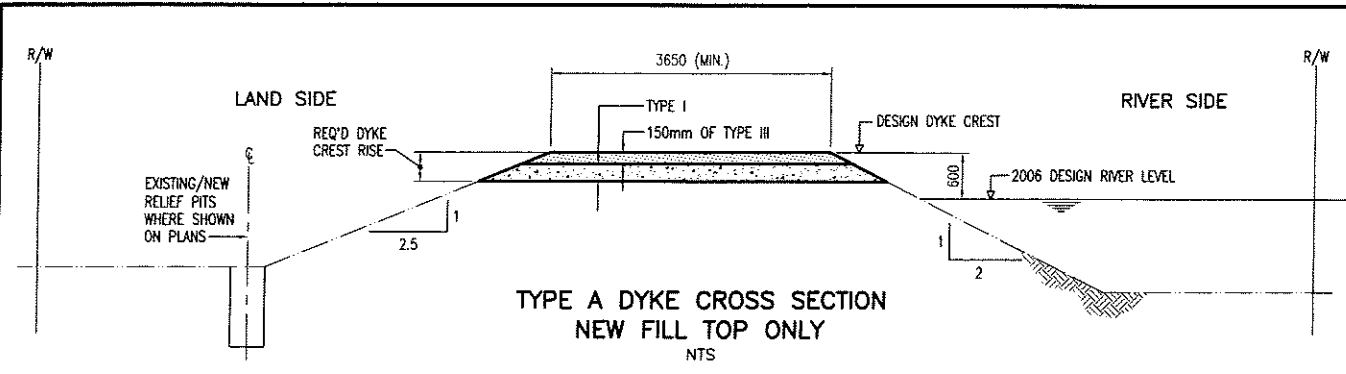
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| B | JUN8/07 | KS | JS | [Signature] | RECORD DRAWING |

DESIGNED J.S.
DRAWN KS
CHECKED [Signature]

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 10+750 TO 14+030
CROSS SECTIONS

SCALE: H. 1:250
DRAWING No. 186.78.2
SHEET 9 OF 10 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE



PROFESSIONAL
ENGINEER
OF
THE
PROVINCE
OF
BRITISH COLUMBIA
JOHN W. C. BOYLE
P. ENG. 12345
1998

These record drawings have been prepared based on hydraulic profile data provided by the City and on site survey information recorded by Dayton & Knight Ltd.. Material gradation sizing and dyke details were provided by AMEC Earth & Environmental, in consultation with the City. Legal plan and legal information provided by Tunbridge & Tunbridge Land Surveyors.

FILE: C:\Projects\Chilliwack\186-...-2\SH110.dwg Tab Sheet: 10 07-07-04 KIT

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DESIGNED J.S.
DRAWN KS
CHECKED [Signature]

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 10+750 TO 14+030
MISCELLANEOUS DETAILS

SCALE: AS SHOWN
DRAWING No. 186.28.2
SHEET 10 OF 10 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE

CITY OF CHILLIWACK

FRASER RIVER EAST DYKE UPGRADES

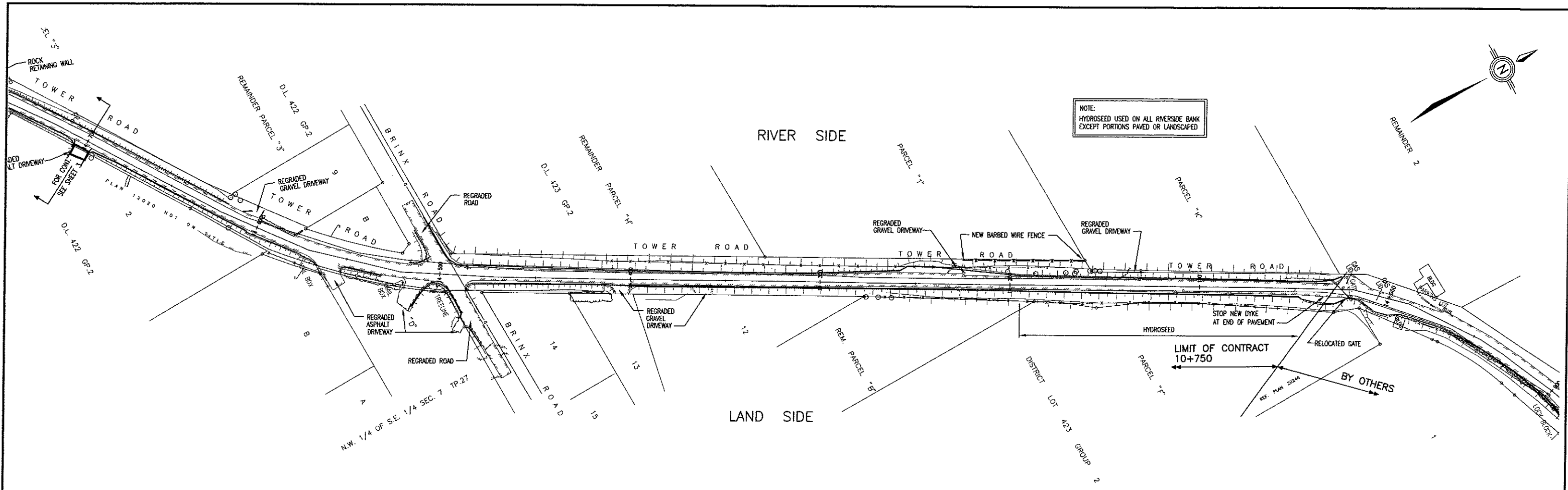
STATION 14+030 TO 15+216

CONTRACT No. 186.78.3

RECORD DRAWING

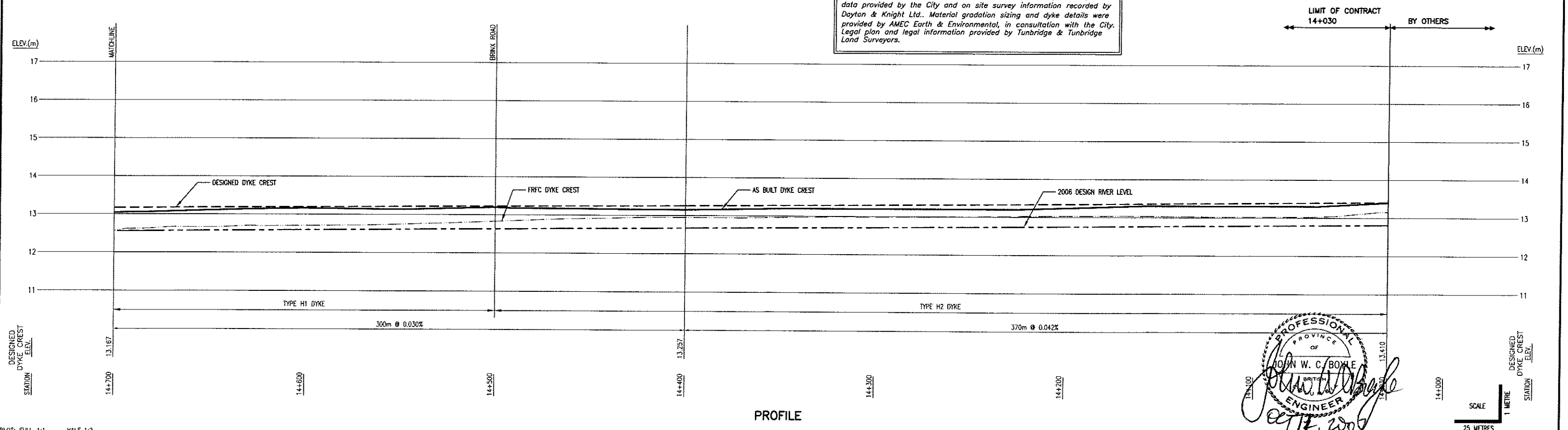


Dayton & Knight Ltd.
CONSULTING ENGINEERS



PLAN

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PROFILE

PROFESSIONAL ENGINEER
 W. C. BOWLE
 OCT 17, 2006

J:\SHP2_3.dwg Tab Sheet 2 07-09-25 KIT

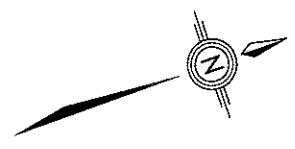
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| A | 27/04/07 | KS | JWCB | JWCB | ISSUED FOR CONSTRUCTION | | | | | | |
| B | JUN8/07 | KS | JS | JS | RECORD DRAWING | | | | | | |

DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

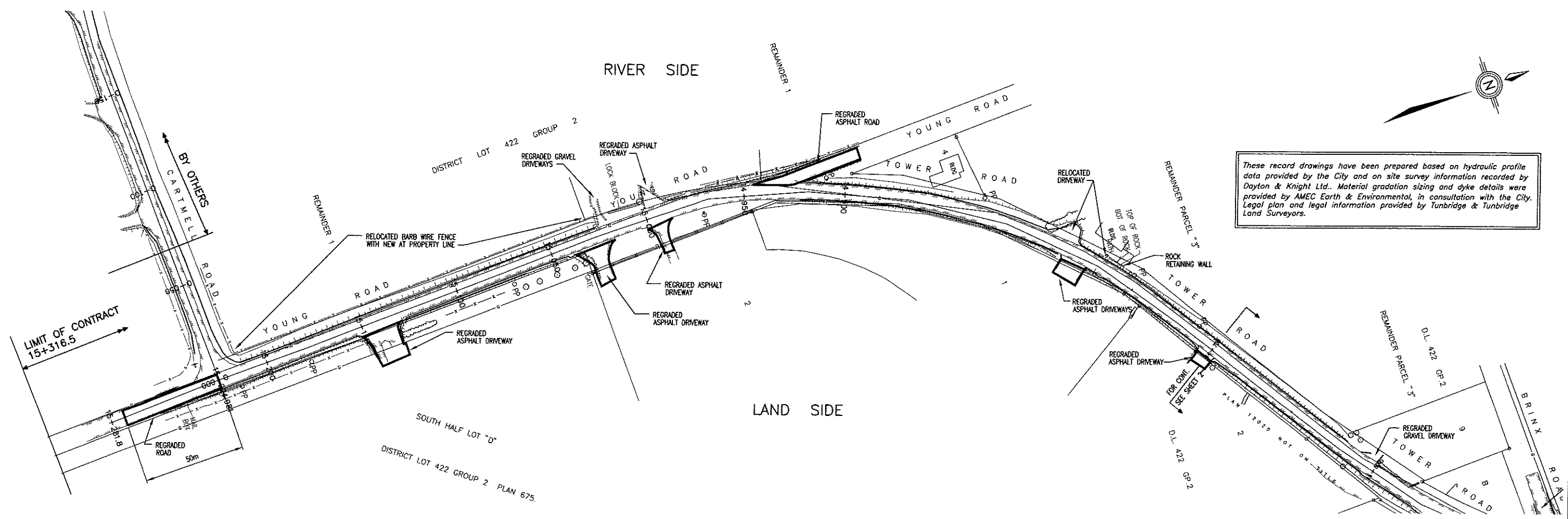
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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 14+030 TO 15+216
 PLAN AND PROFILE

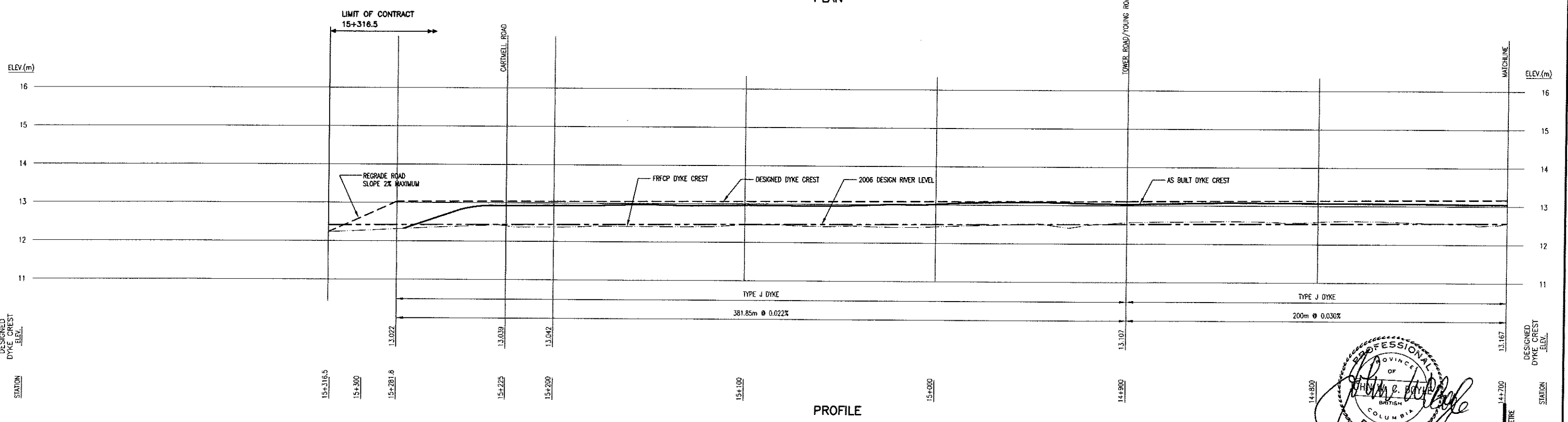
SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.3
 SHEET 2 OF 5 ISSUE B
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PLAN



PROFILE

PROFESSIONAL ENGINEER
 JOHN C. BAYNE
 OCT 17, 2007

SCALE
 1 METRE
 25 METRES

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|----------|-------|-------|-------|-------------------------|
| A | 27/04/07 | KS | JWCB | JWCB | ISSUED FOR CONSTRUCTION |
| B | JUN8/07 | KS | JS | | RECORD DRAWING |

DESIGNED J.S.
 DRAWN KS
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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 14+030 TO 15+216
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.3
 SHEET 3 OF 5 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE

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 PLOT: FULL 1:1 HALF 1:2

LAND SIDE (TYP.)

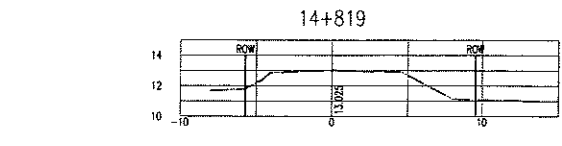
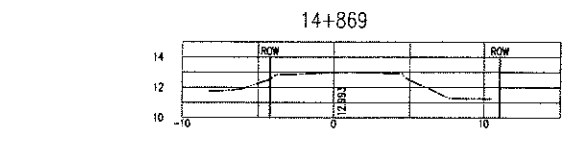
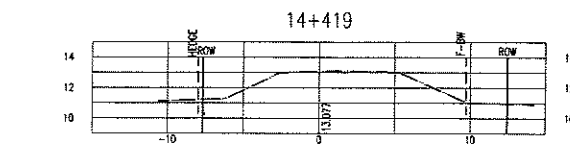
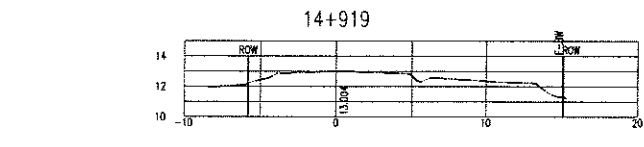
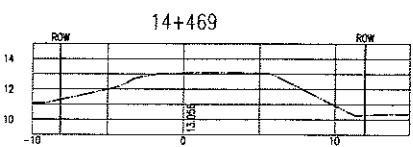
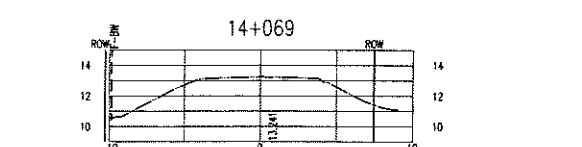
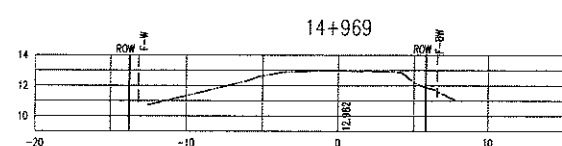
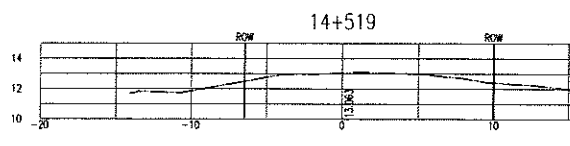
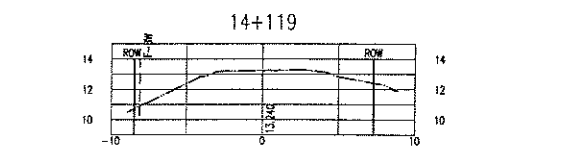
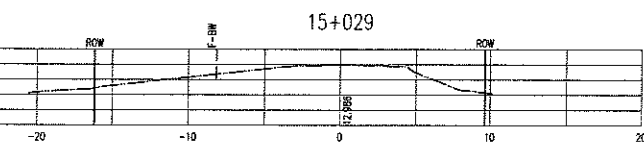
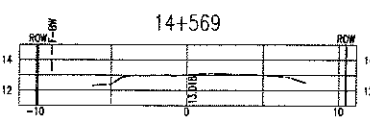
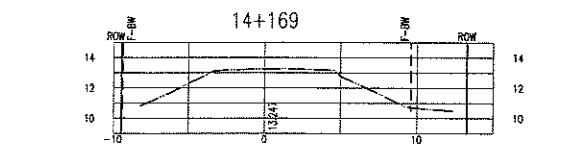
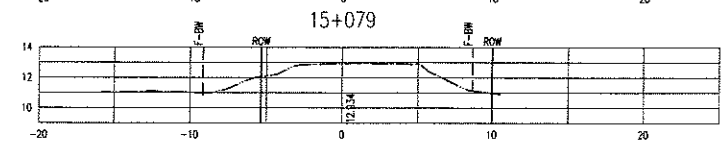
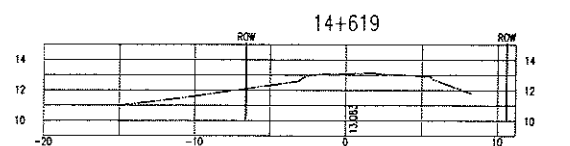
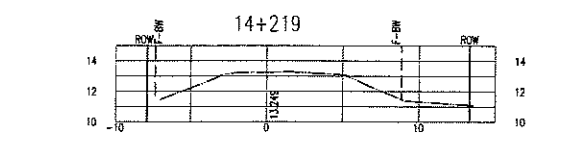
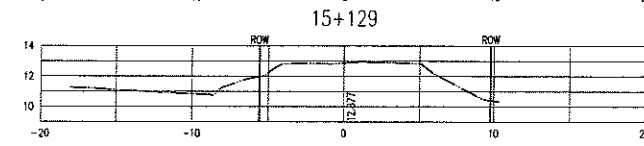
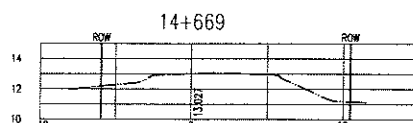
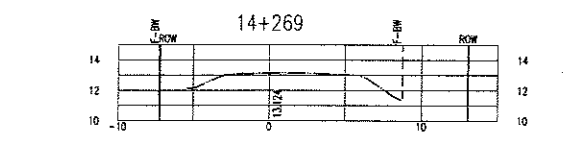
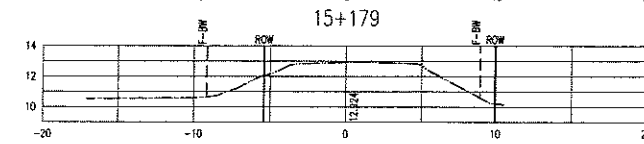
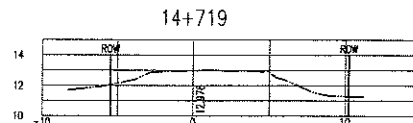
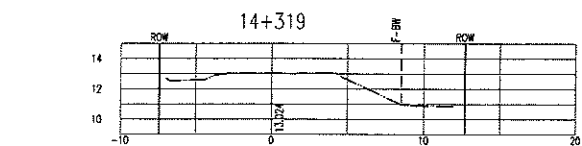
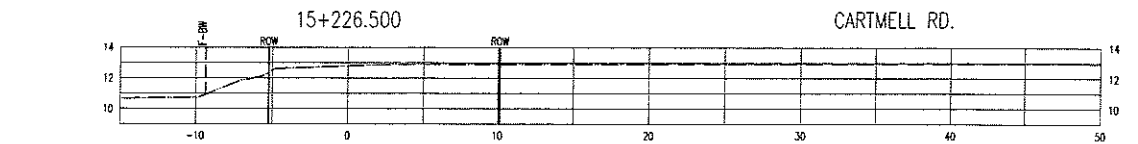
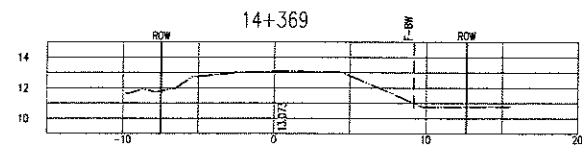
RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

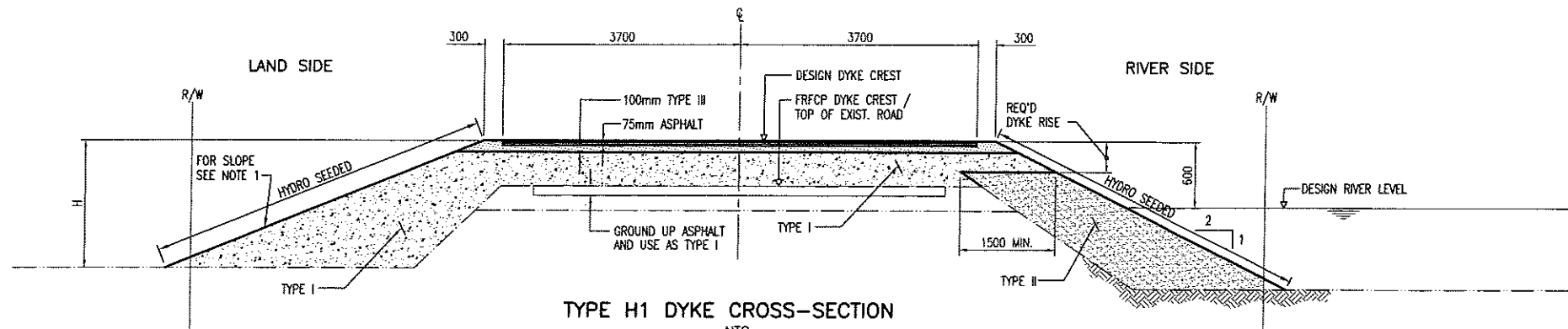


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PROFESSIONAL ENGINEER
 JOHN W. BOYKE
 OCT 11, 2007

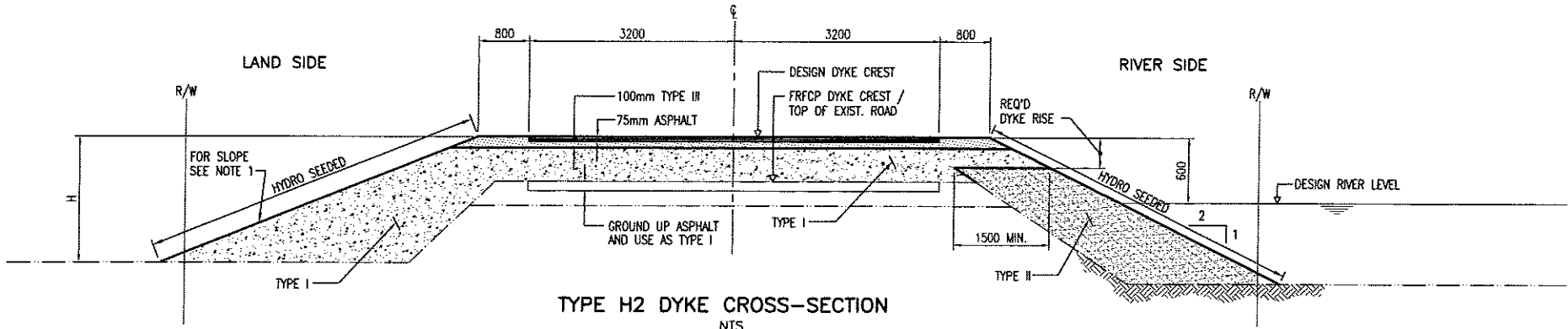
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| PLOT: FULL 1:1 HALF 1:2 | | ISSUE | | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION | | ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION | | DESIGNED | J.S. | Dayton & Knight Ltd. CONSULTING ENGINEERS #110-888 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL: (604) 992-4900 FAX: (604) 992-4925 www.dayton-knight.com | CITY OF CHILLIWACK FRASER RIVER EAST DYKE UPGRADES STA. 14+030 TO 15+216 CROSS SECTIONS | SCALE: 1:250 |
| A | | 27/04/07 | KS | JWCB | JWCB | ISSUED FOR CONSTRUCTION | | | | | | | | DRAWN | KS | DRAWING No. 186.78.3 | | | | | |
| B | | JUN8/07 | KS | JS | JS | RECORD DRAWING | | | | | | | | CHECKED | JWS | SHEET 4 OF 5 ISSUE B | | | | | |

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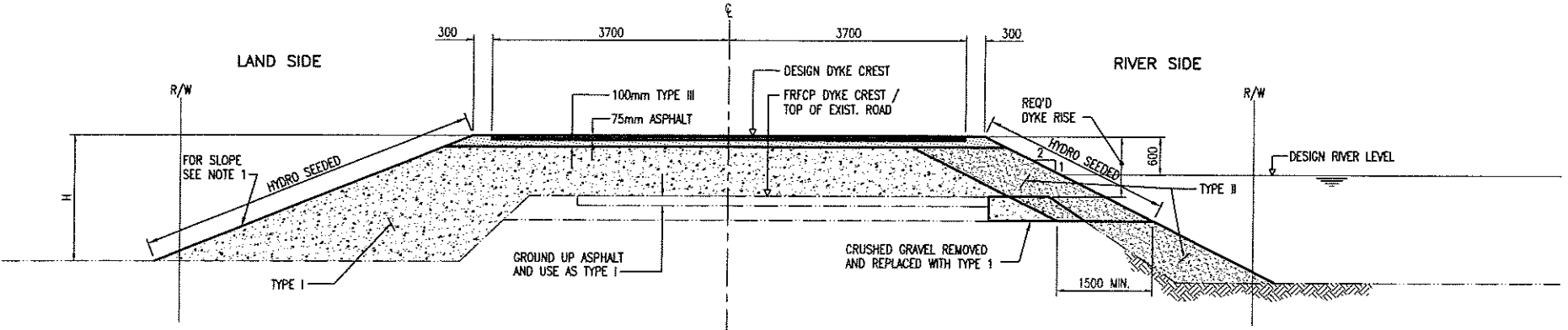
TYPE H1 DYKE CROSS-SECTION
NTS

FOR USE WHERE DESIGN RIVER WATER LEVEL IS BELOW TOP OF EXISTING ROAD



TYPE H2 DYKE CROSS-SECTION
NTS

FOR USE WHERE DESIGN RIVER WATER LEVEL IS BELOW TOP OF EXISTING ROAD



TYPE J DYKE CROSS-SECTION
NTS

FOR USE WHERE DESIGN RIVER WATER LEVEL IS AT OR ABOVE TOP OF EXISTING ROAD

NOTE 1
IF H < 2.0m LANDSIDE SLOPE SHALL BE 2H TO 1V
IF H > 2.0m LANDSIDE SLOPE SHALL BE 2.5H TO 1V

PROFESSIONAL
ENGINEER
JOHN W. A. BOYLE
OCT 11, 2007

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FILE: P:\Records\Chilliwack\186-...-SHTS.dwg Job: SH15_07-07-04 KRT

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| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION | ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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| B | JUN8/07 | KS | JS | JS | RECORD DRAWING | | | | | | |

DESIGNED J.S.
DRAWN KS
CHECKED JWB

Dayton & Knight Ltd.
CONSULTING ENGINEERS
#210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1
TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com

CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 14+030 TO 15+216
MISCELLANEOUS DETAILS

SCALE: AS SHOWN
DRAWING No. 186.78.3
SHEET 5 OF 5 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE

CITY OF CHILLIWACK

FRASER RIVER EAST DYKE UPGRADES

STATION 3+600 TO 5+000

CONTRACT No. 186.78.4

RECORD DRAWING



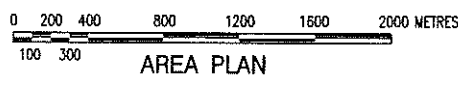
Dayton & Knight Ltd.
CONSULTING ENGINEERS



KEY PLAN

LEGEND

| | |
|--|--------------------------|
| | NEW DESIGN CREST PROFILE |
| | AS BUILT CREST PROFILE |
| | 2006 DESIGN RIVER LEVEL |
| | 2006 DYKE CREST |
| | NEW DYKE CENTERLINE |
| | NEW FENCE |
| | * FRFCP DYKE CREST |
| | OLD RELIEF PITS |
| | OLD DYKE CENTERLINE |
| | WOOD FENCE |
| | WIRE MESH FENCE |
| | BARBED WIRE FENCE |
| | ELECTRIC FENCE |
| | WATER |
| | GAS |
| | TELUS |
| | STORM |
| | CULVERT |
| | RIP RAP |
| | POWER POLE |
| | TREES/HEDGE |
| | CATCH BASIN |
| | OLD RELIEF WELL |
| | CATTLE GUARD |
| | SIGN |
| | NO-POST BARRIER |
| | GATE |
| | PAVED ROAD |
| | GRAVEL ROAD |



* FRASER RIVER FLOOD CONTROL PROGRAM

MONUMENTS

| Monument | Northing | Easting | Elev. |
|------------|-------------|------------|--------|
| Mon 671 | 5448279.560 | 576336.482 | 11.402 |
| Mon 772 | 5452212.579 | 581414.850 | 13.679 |
| Mon 770 | 5450912.413 | 583455.573 | 13.237 |
| Mon H360 | 5451555.655 | 585040.449 | 16.926 |
| Mon 89C174 | 5450549.760 | 587871.059 | 16.622 |
| Mon 767 | 5450354.751 | 588199.031 | 16.051 |
| Mon 670A | 5450532.645 | 577236.155 | 13.469 |

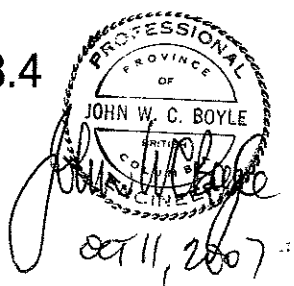
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INDEX TO DRAWINGS

| SHEET | TITLE |
|-------|---|
| 1 | KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND |
| 2 - 3 | PLAN AND PROFILE |
| 4 | CROSS SECTIONS |
| 5 | MISCELLANEOUS DETAILS |

**CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STATION 3+600 TO 5+000
CONTRACT No. 186.78.4**



I:\E:\Projects\Chilliwack\186... 186-78-4_SHT 1.dwg, Tab Layout1, 07-07-04

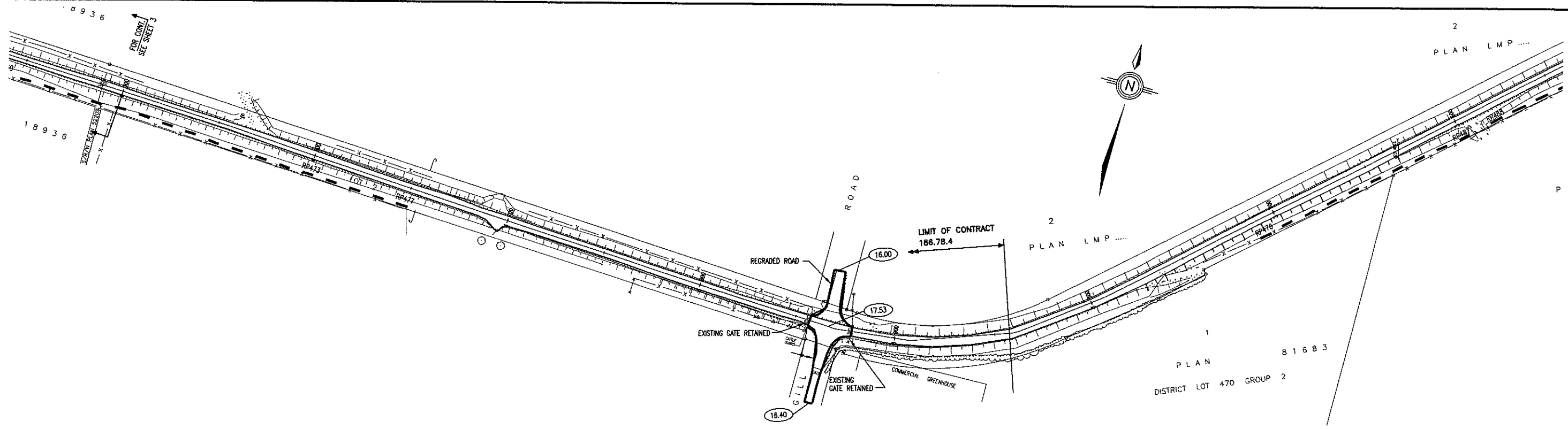
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|----------|-------------|
| DESIGNED | J.S. |
| DRAWN | KS |
| CHECKED | (Signature) |



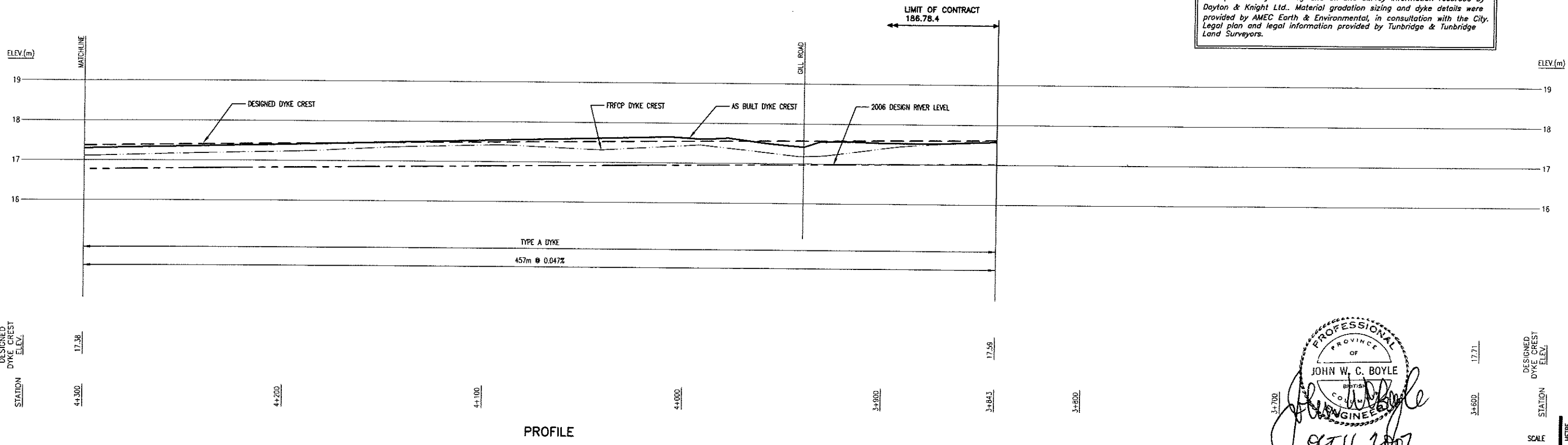
CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STATION 3+600 TO 5+000
KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND

SCALE: AS SHOWN
DRAWING No. 186.78.4
SHEET 1 OF 5 ISSUE B
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PLAN

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PROFILE

PROFESSIONAL
 PROVINCE OF
 JOHN W. C. BOYLE
 BRITISH COLUMBIA
 ENGINEER
John W. C. Boyle
 OCT 11, 2007

FILE: P:\Recording\Chilliwack\18... 186-78-4_SHT 2_3.dwg Top Sheet 2 07-09-25 KIT

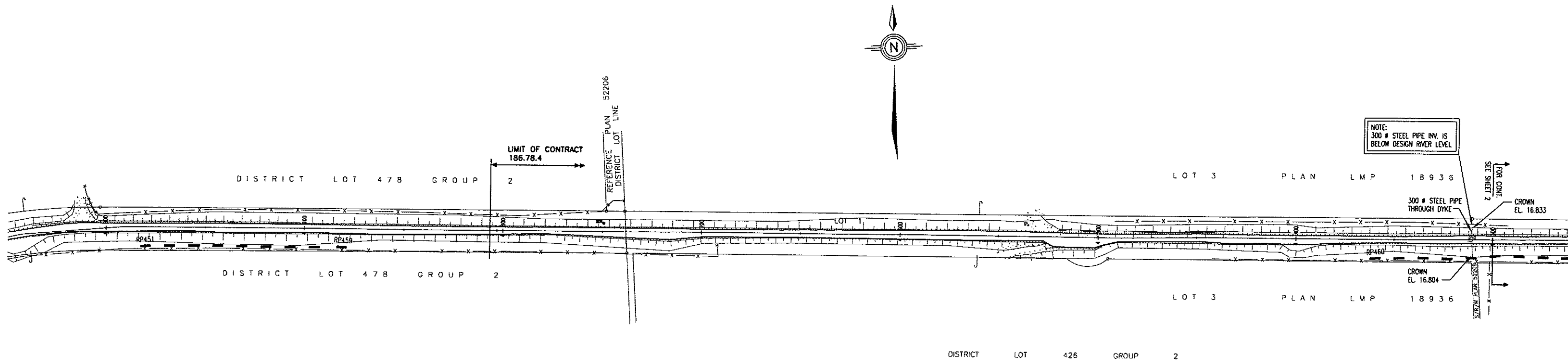
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| B | JUN5/07 | KS | JS | <i>JS</i> | RECORD DRAWING | | | | | | |

DESIGNED J.S.
 DRAWN KS
 CHECKED *KS*


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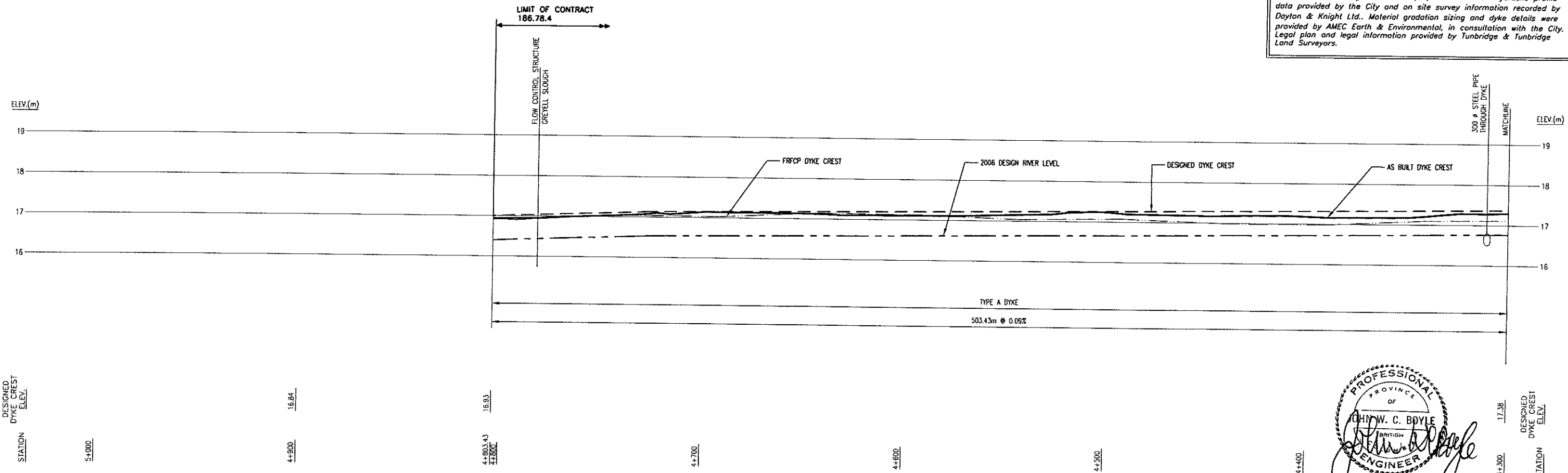
CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 3+600 TO 5+000
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.4
 SHEET 2 OF 5 ISSUE B
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PLAN

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PROFILE

PROFESSIONAL
OF
OH W. C. BOYLE
BRITISH
ENGINEER
Oct 11, 2007

SCALE
25 METRES
1 METRE

FILE: P:\Records\Chilliwack\186-78-4_Sht 2_3.dwg Tab Sheet 3_07-09-25 KIT

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 3+600 TO 5+000
PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
DRAWING No. 186.78.4
SHEET 3 OF 5 ISSUE B
THIS DRAWING REDUCED TO HALF SIZE

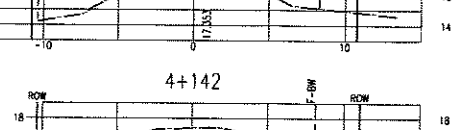
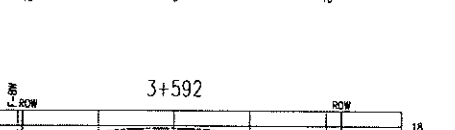
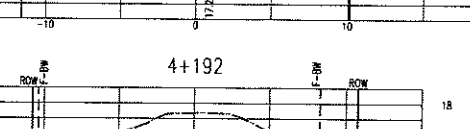
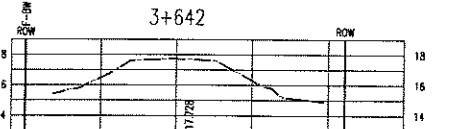
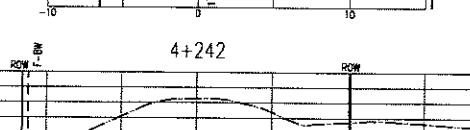
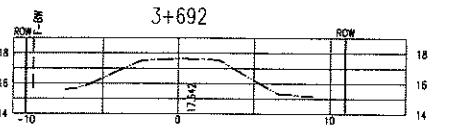
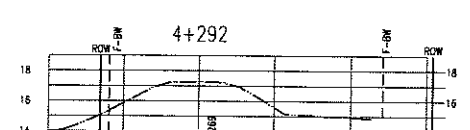
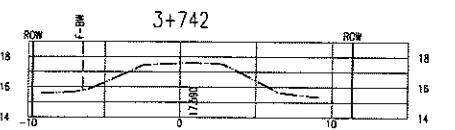
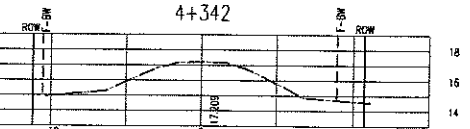
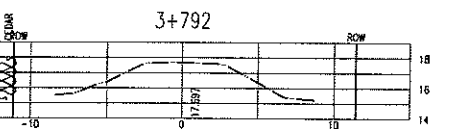
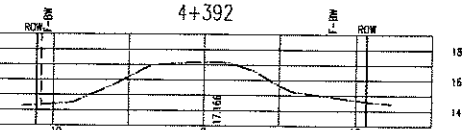
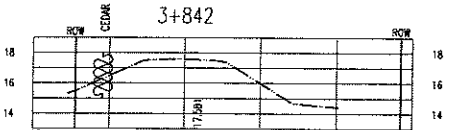
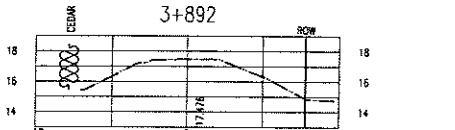
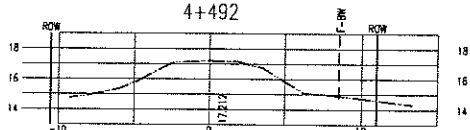
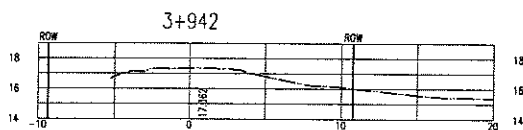
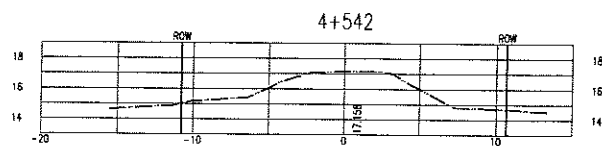
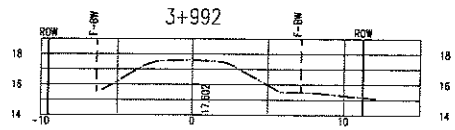
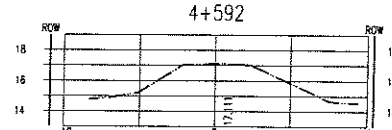
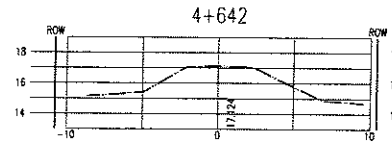
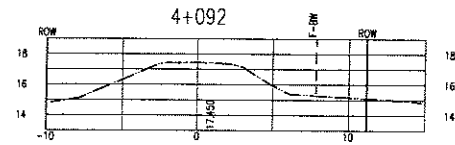
LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

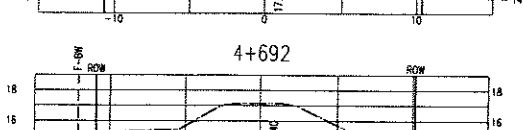
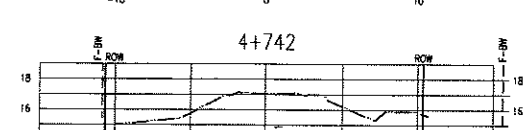
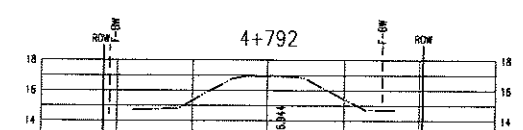
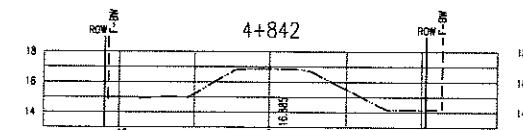
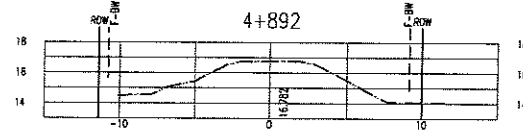
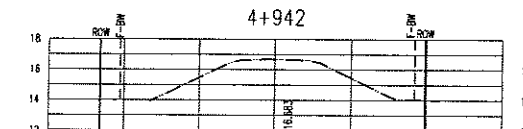
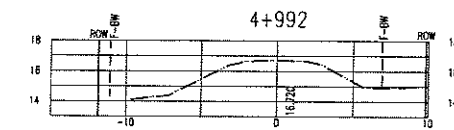
RIVER SIDE (TYP.)

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LAND SIDE (TYP.)

RIVER SIDE (TYP.)



PROFESSIONAL ENGINEER JOHN W. C. BOYD OCT 11, 2007

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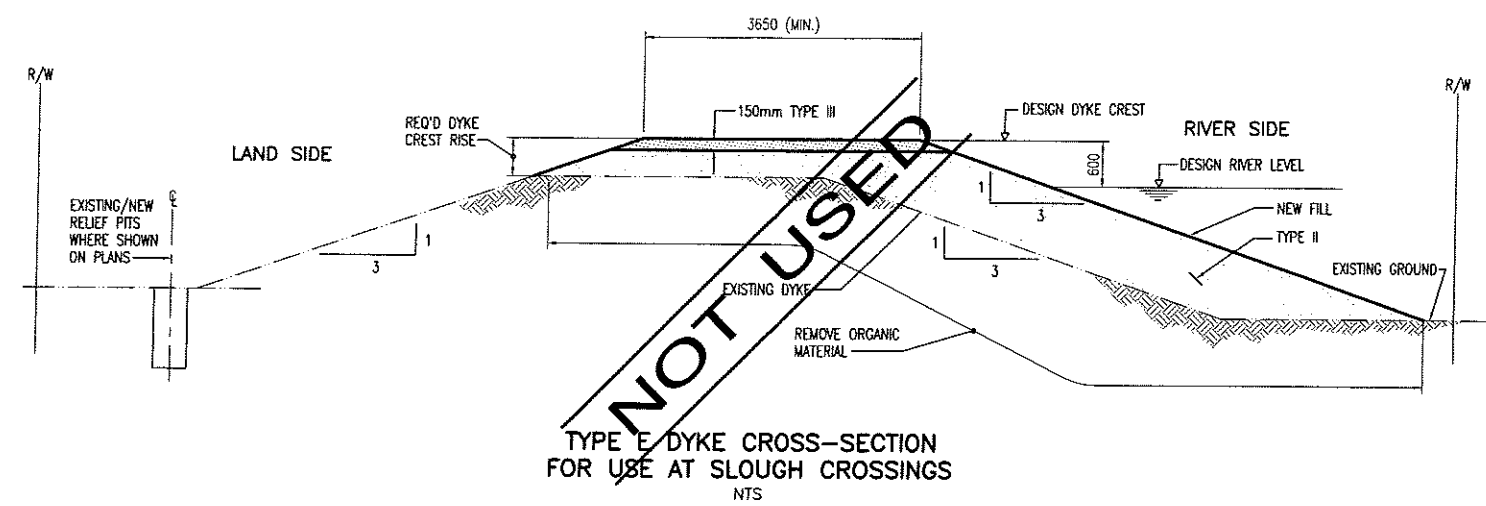
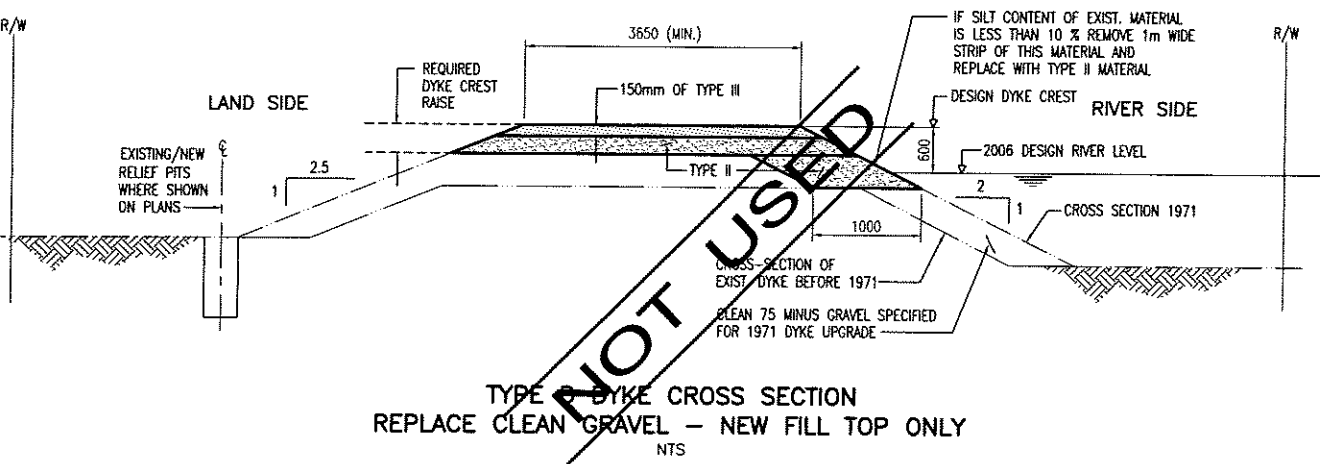
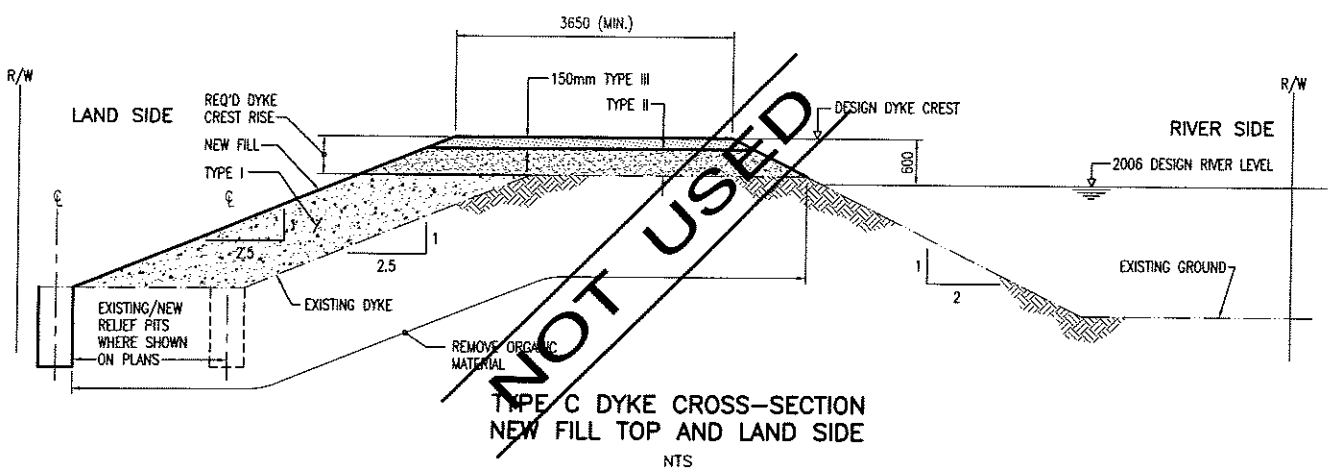
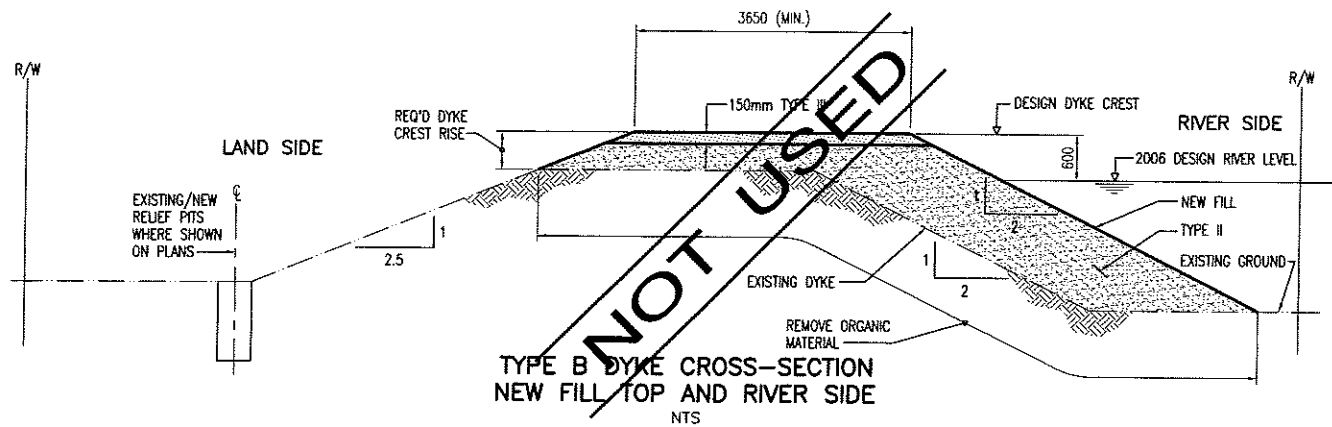
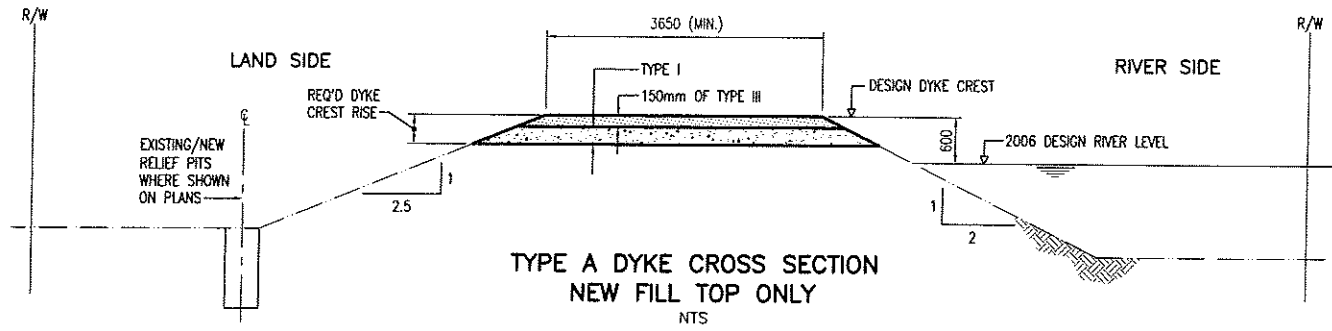
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| B | JUN5/07 | KS | JS | [Signature] | RECORD DRAWING | | | | | | |

DESIGNED J.S.
DRAWN KS
CHECKED [Signature]

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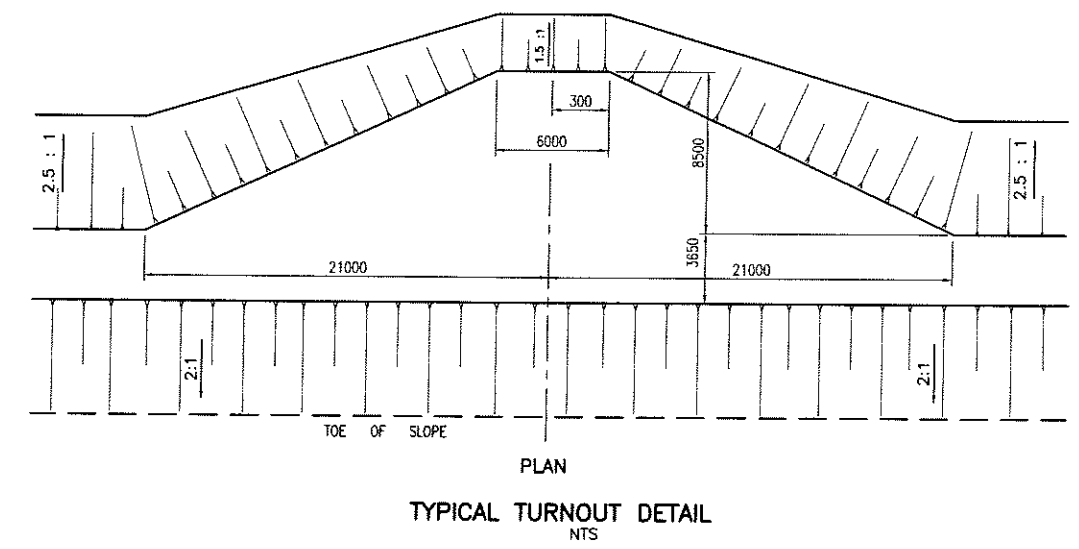
CITY OF CHILLIWACK FRASER RIVER EAST DYKE UPGRADES STA 3+600 TO 5+000 CROSS SECTIONS

SCALE: H. 1:250 DRAWING No. 185.78.4 SHEET 4 OF 5 ISSUE B THIS DRAWING REDUCED TO HALFSIZE



DYKE MATERIALS (SEE SPECIFICATIONS - SECTION 2.03)

- TYPE I - 75 mm GRAVELY SAND
- TYPE II - 75 mm GRAVEL
- TYPE III - 19 mm CRUSHED GRAVEL



PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 JOHN W. C. BOYLE
 OCT 11, 2007

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| B | JUN5/07 | KS | JS | [Signature] | RECORD DRAWING | | | | | | |

DESIGNED J.S.
 DRAWN KS
 CHECKED JWS

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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 0+500 TO 1+500
 MISCELLANEOUS DETAILS

SCALE: AS SHOWN
 DRAWING No. 186.78.4
 SHEET 5 OF 5 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE

CITY OF CHILLIWACK

FRASER RIVER EAST DYKE UPGRADES

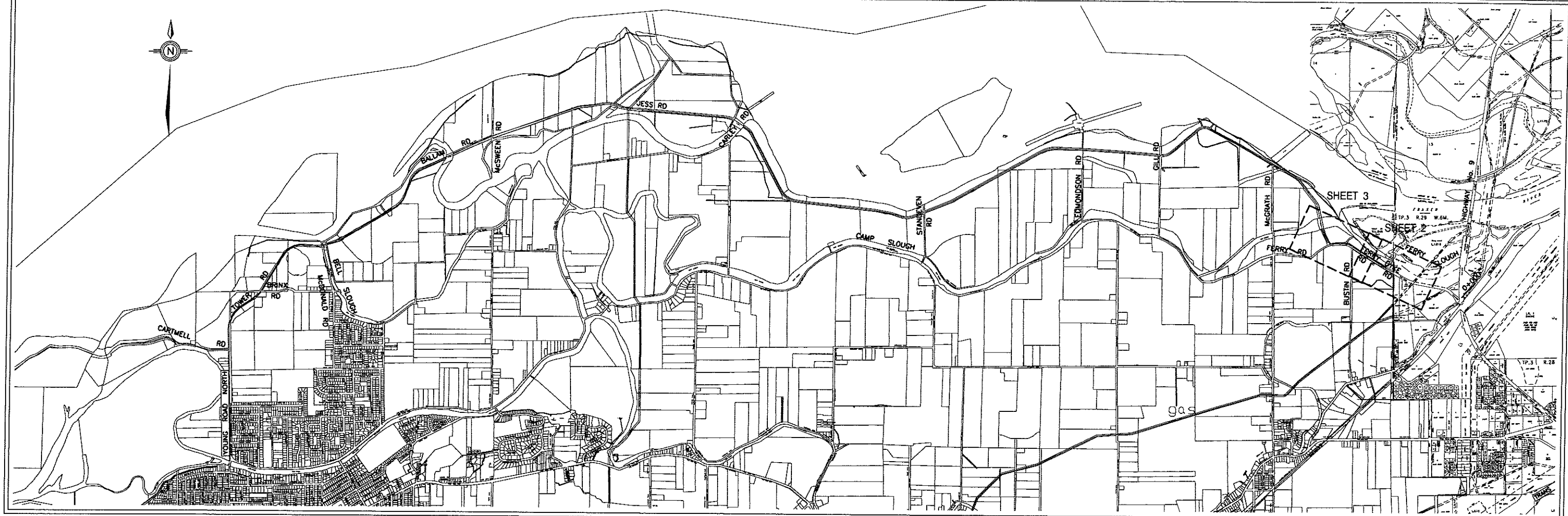
STATION 0+500 TO 1+500

CONTRACT No. 186.78.5

RECORD DRAWING



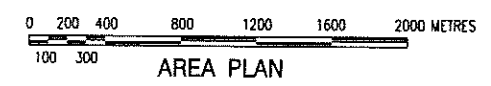
Dayton & Knight Ltd.
CONSULTING ENGINEERS



KEY PLAN

LEGEND

| | |
|-------|--------------------------|
| --- | NEW DESIGN CREST PROFILE |
| --- | AS BUILT CREST PROFILE |
| --- | 2006 DESIGN RIVER LEVEL |
| --- | 2006 DYKE CREST |
| --- | NEW DYKE CENTERLINE |
| --- | NEW FENCE |
| --- | * FRFCP DYKE CREST |
| RP301 | OLD RELIEF PITS |
| RP303 | OLD DYKE CENTERLINE |
| | WOOD FENCE |
| △ | WIRE MESH FENCE |
| --- | BARBED WIRE FENCE |
| --- | ELECTRIC FENCE |
| W | WATER |
| G | GAS |
| T | TELUS |
| ST | STORM CULVERT |
| | RIP RAP |
| PP O | POWER POLE |
| ○ | TREES/HEDGE |
| CB | CATCH BASIN |
| ○ RW | OLD RELIEF WELL |
| CG | CATTLE GUARD |
| S | SIGN |
| --- | NO-POST BARRIER |
| G | GATE |
| --- | PAVED ROAD |
| --- | GRAVEL ROAD |



* FRASER RIVER FLOOD CONTROL PROGRAM

MONUMENTS

| Monument | Northing | Easting | Elev. |
|------------|-------------|------------|--------|
| Mon 671 | 5448279.560 | 576336.482 | 11.402 |
| Mon 772 | 5452212.579 | 581414.850 | 13.679 |
| Mon 770 | 5450912.413 | 583455.573 | 13.237 |
| Mon H360 | 5451555.655 | 585040.449 | 16.926 |
| Mon 89C174 | 5450549.760 | 587871.059 | 16.622 |
| Mon 767 | 5450354.751 | 588199.031 | 16.051 |
| Mon 670A | 5450532.645 | 577236.155 | 13.469 |

COORDINATES USED ON THESE DRAWINGS ARE BASED ON UTM NAD83 ZONE 10 GPS DERIVED GRID COORDINATES WHICH WERE TRANSFORMED INTO THIS LOCAL GROUND LEVEL SYSTEM. DISTANCES SHOWN ARE GROUND LEVEL. GRID TO GROUND SCALE FACTOR USED = 1.000316. GRID BEARINGS ARE APPROXIMATELY 0°51' LESS THAN ASTRONOMIC. SCALING POINT USED AT COORDINATES N5451769.956 E 586225.459

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INDEX TO DRAWINGS

| SHEET | TITLE |
|-------|---|
| 1 | KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND |
| 2 - 3 | PLAN AND PROFILE |
| 4 | CROSS SECTIONS |
| 5 | MISCELLANEOUS DETAILS |

**CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STATION 0+500 TO 1+500
CONTRACT No. 186.78.5**

PROFESSIONAL
ENGINEER
JOHN W. C. BOYLE
OCT 11, 2007

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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DESIGNED J.S.
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CHECKED [Signature]

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CITY OF CHILLIWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 0+500 TO 1+500
KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND

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SHEET 1 OF 5 ISSUE B
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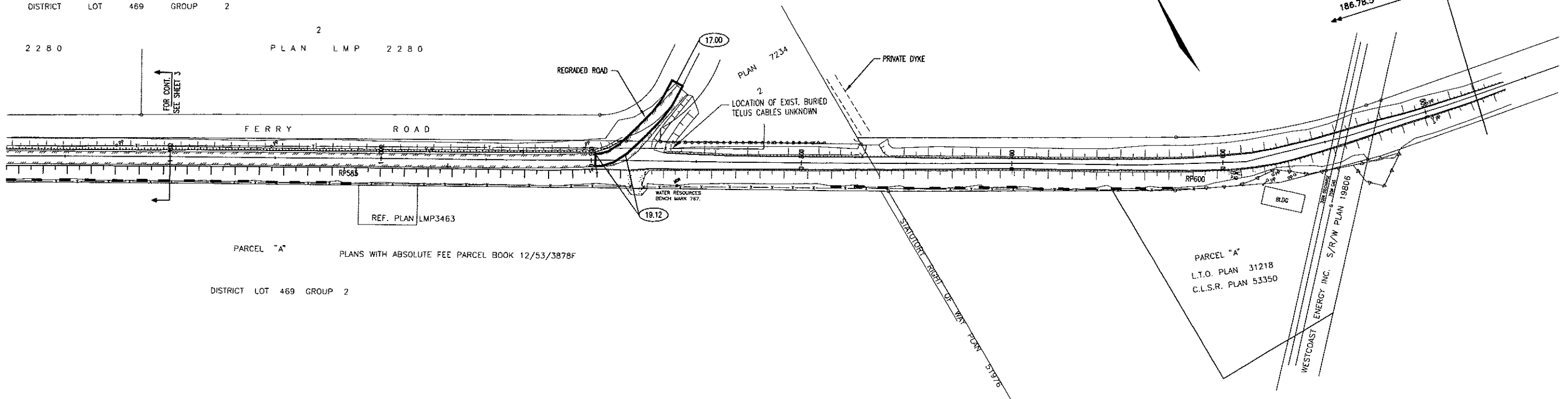
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DISTRICT LOT 469 GROUP 2

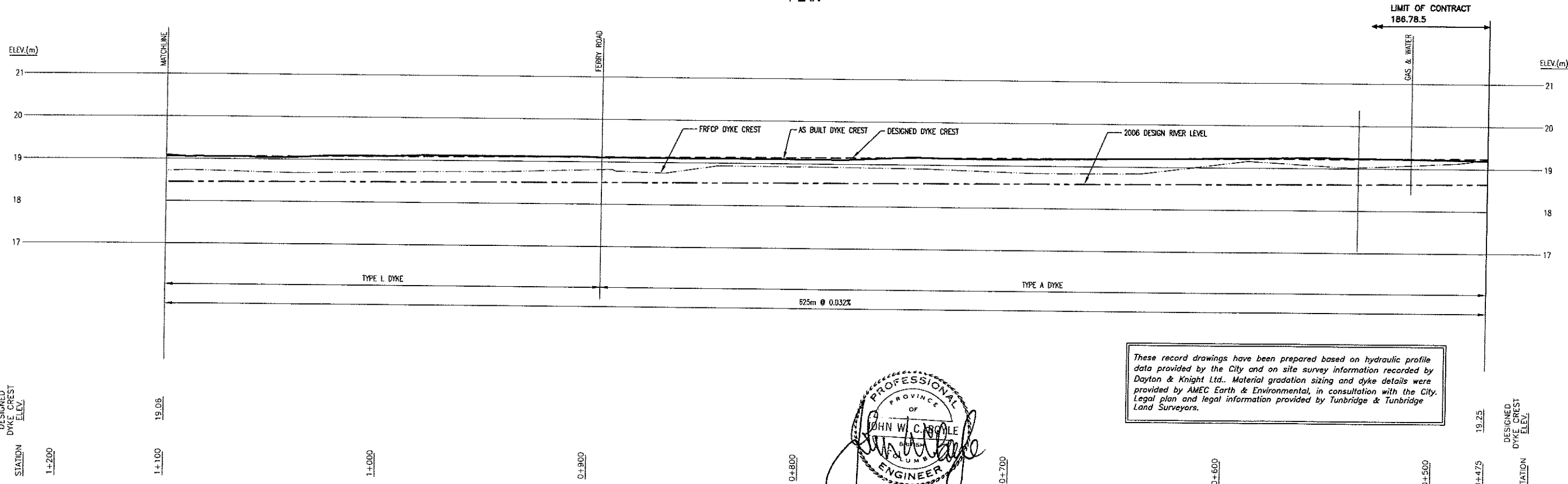
2280

PLAN LMP 2280

FOR CONT. SEE SHEET 3



PLAN



PROFILE

PROFESSIONAL
 OF
 JOHN W. C. BOYLE
 ENGINEER
 OCT 11, 2007

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SCALE
 1 METRE
 25 METRES

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION | ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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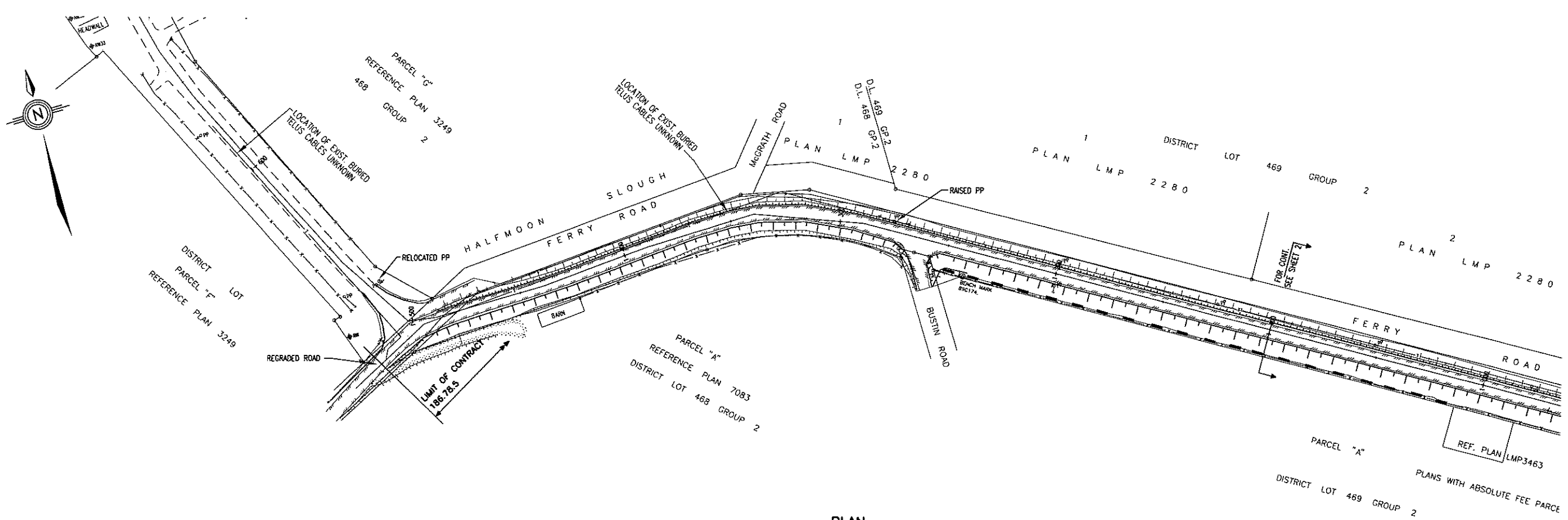
DESIGNED J.S.
 DRAWN KS
 CHECKED (Signature)

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 #210-883 HARBOURSIDE DR., NORTH VANCOUVER B.C. V7P 3S1
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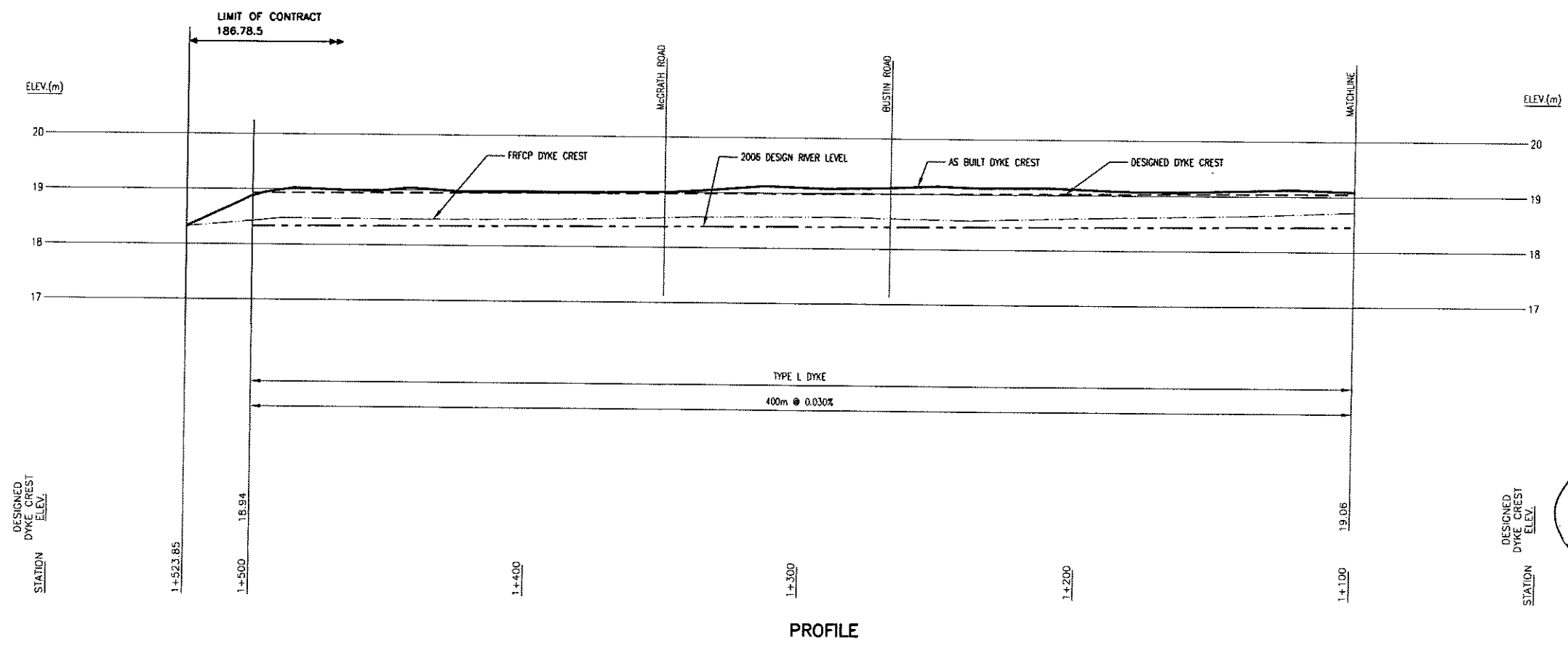
CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 0+500 TO 1+500
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.5
 SHEET 2 OF 5 ISSUE B
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FILE: P:\Records\Chilliwack\186-78-5_Sht_2_3.dwg Tab Sheet 2 07-09-18 KIT
 PLOT: FULL 1:1 HALF 1:2



PLAN



PROFILE

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PROFESSIONAL
ENGINEER
OF
THE
PROVINCE
OF
BRITISH COLUMBIA
JOHN W. C. BOYLE
OCT 11, 2007

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DESIGNED J.S.
DRAWN KS
CHECKED JWB

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CITY OF CHILLWACK
FRASER RIVER EAST DYKE UPGRADES
STA. 0+500 TO 1+500
PLAN AND PROFILE

SCALE: H: 1:1000; V: 1:50
DRAWING No. 186.78.5
SHEET 3 OF 5 ISSUE B
THIS DRAWING REDUCED TO HALF SIZE

LAND SIDE (TYP.)

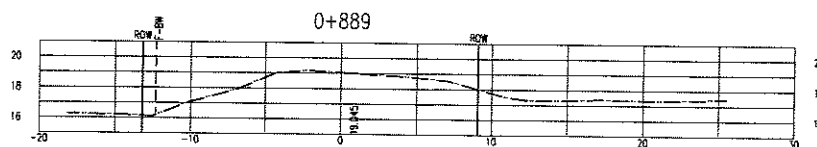
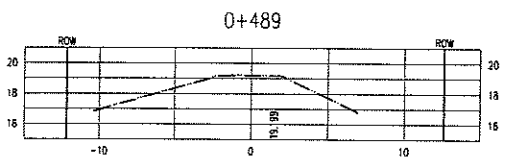
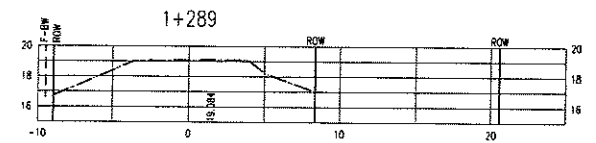
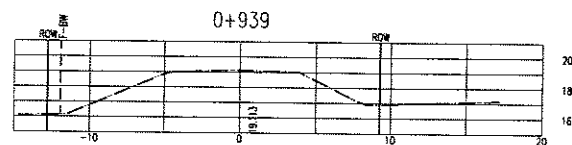
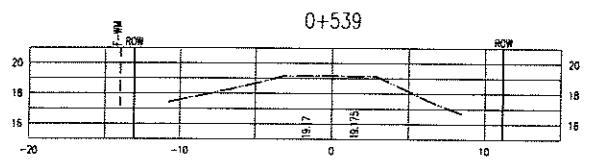
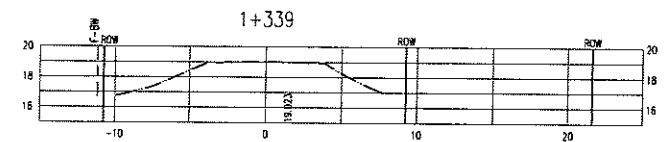
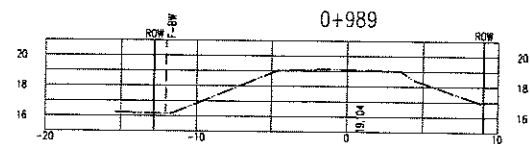
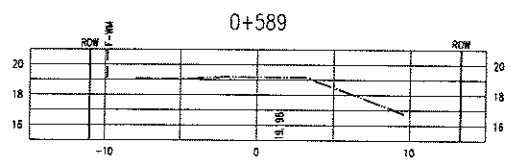
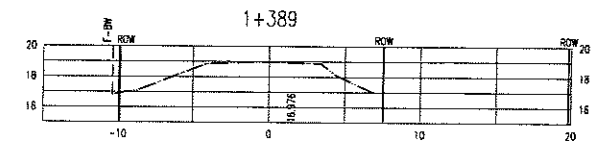
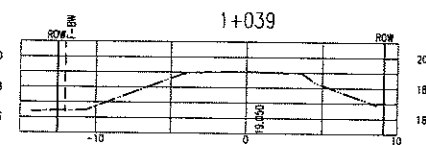
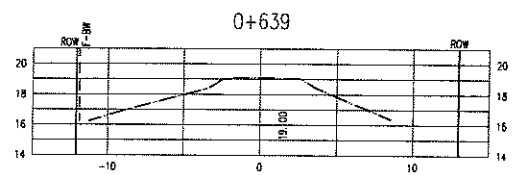
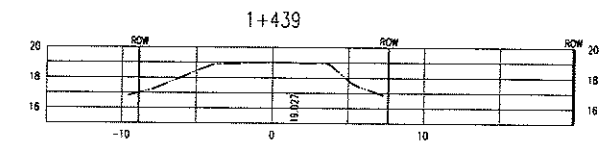
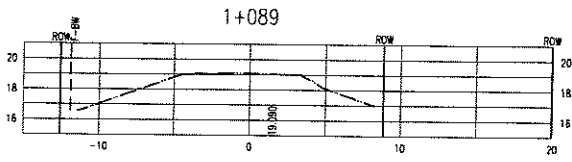
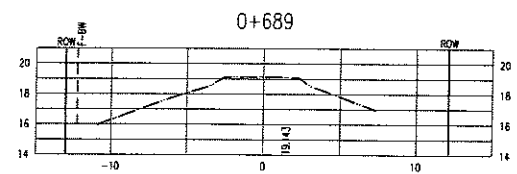
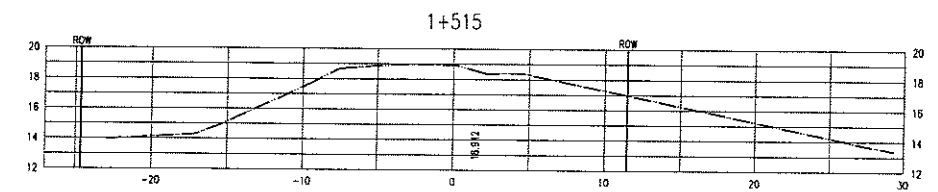
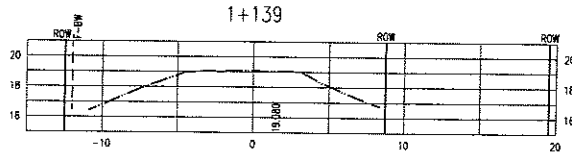
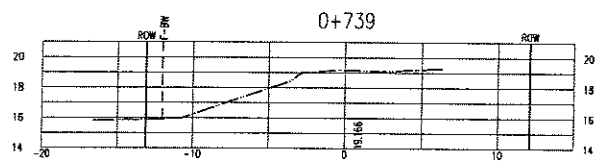
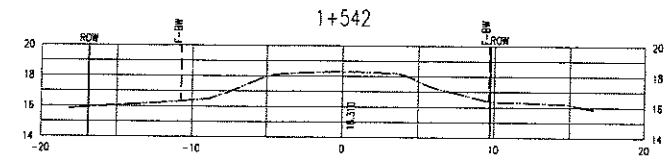
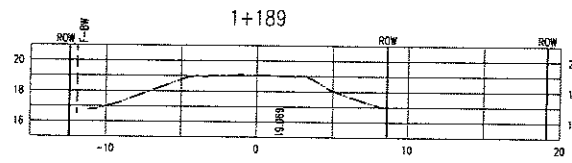
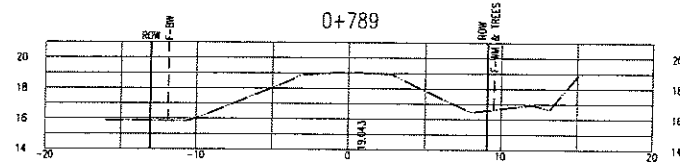
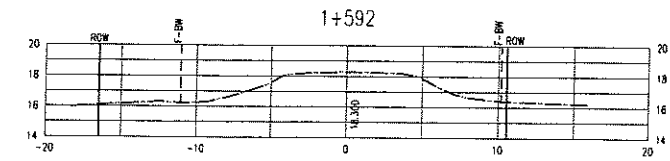
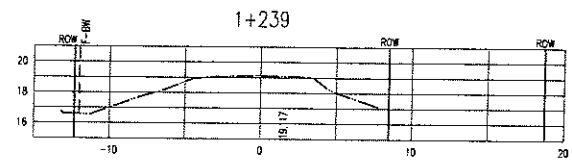
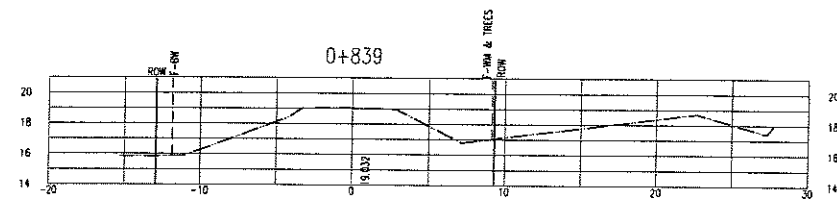
RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)



PROFESSIONAL
 PROVINCE OF
 JOHN W. S. BOYLE
 ENGINEER
 Oct 11, 2007

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 DATE: JUN 7 2007

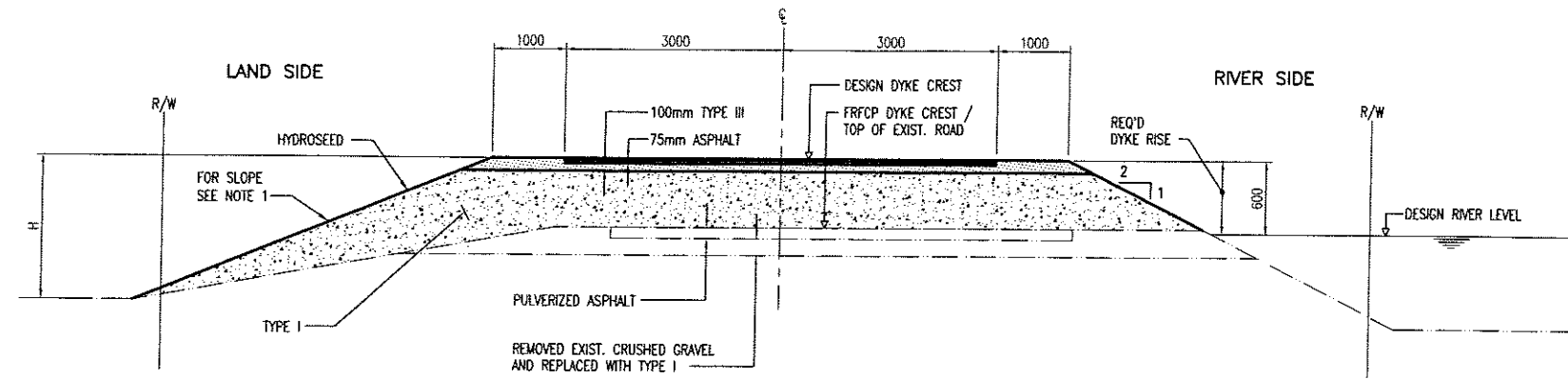
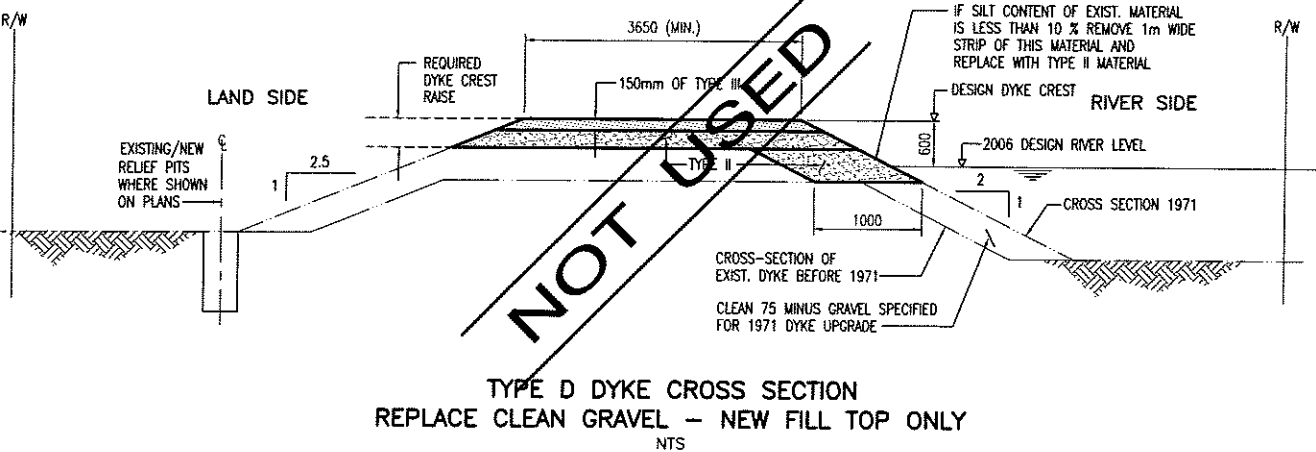
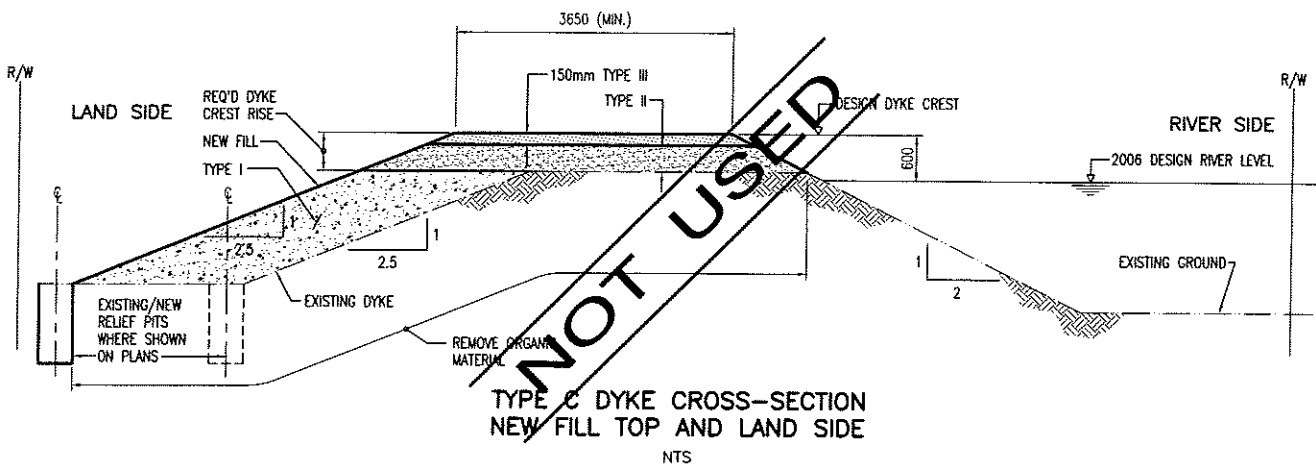
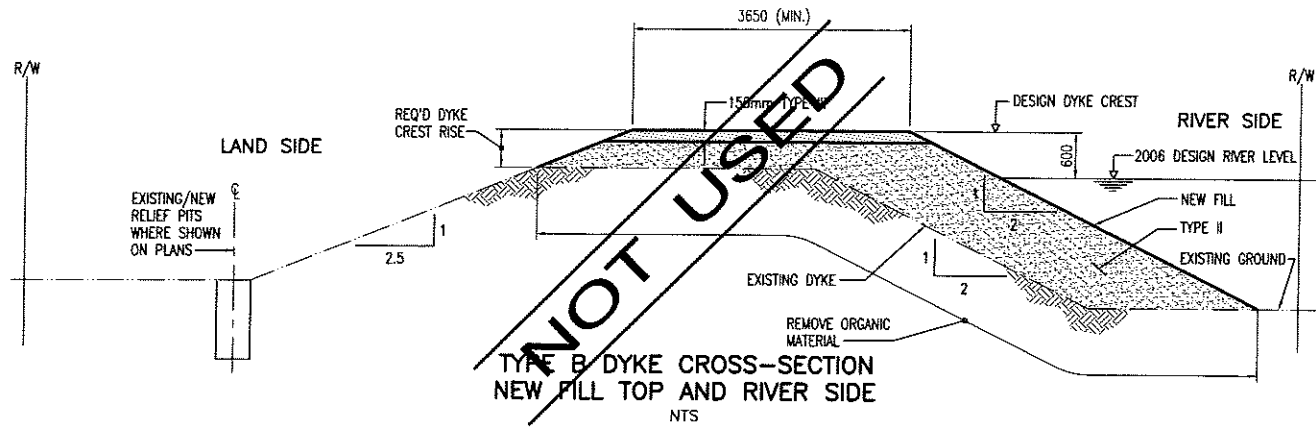
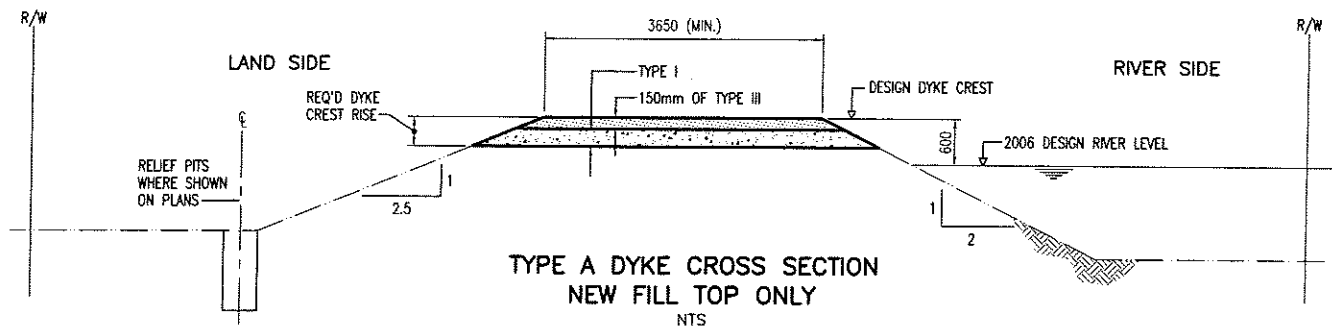
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 DRAWN: KS
 CHECKED: JS

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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 0+500 TO 1+1500
 CROSS SECTIONS

SCALE: H. 1:250
 DRAWING No. 186.78.5
 SHEET 4 OF 5 ISSUE B
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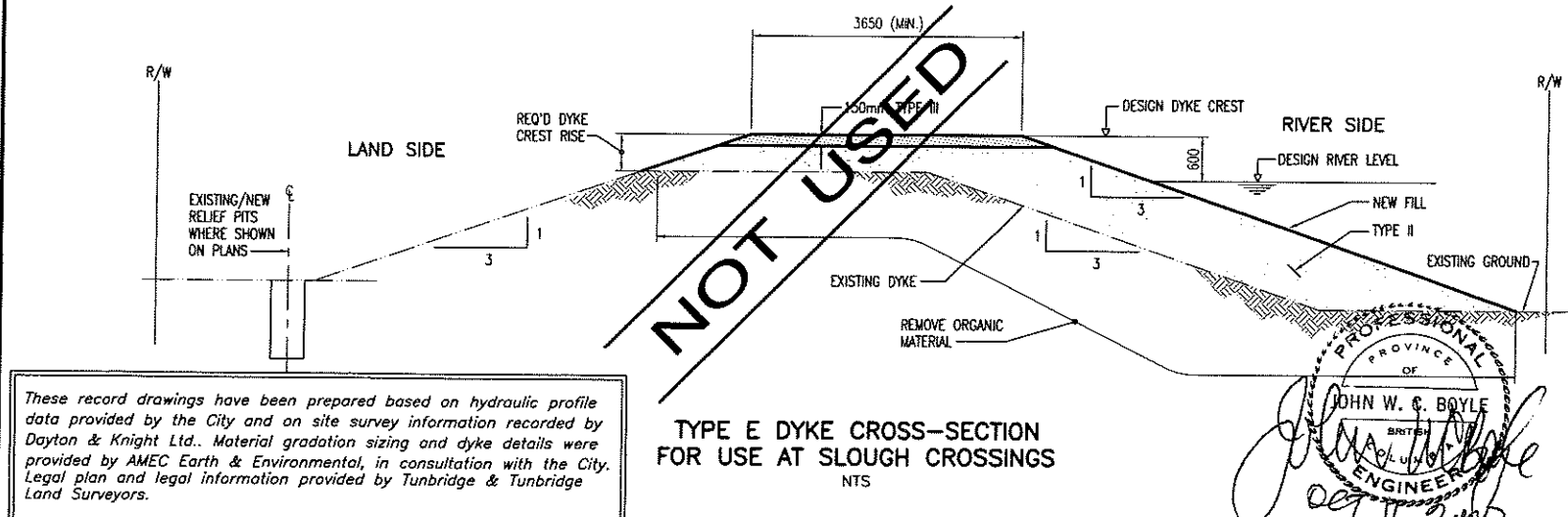
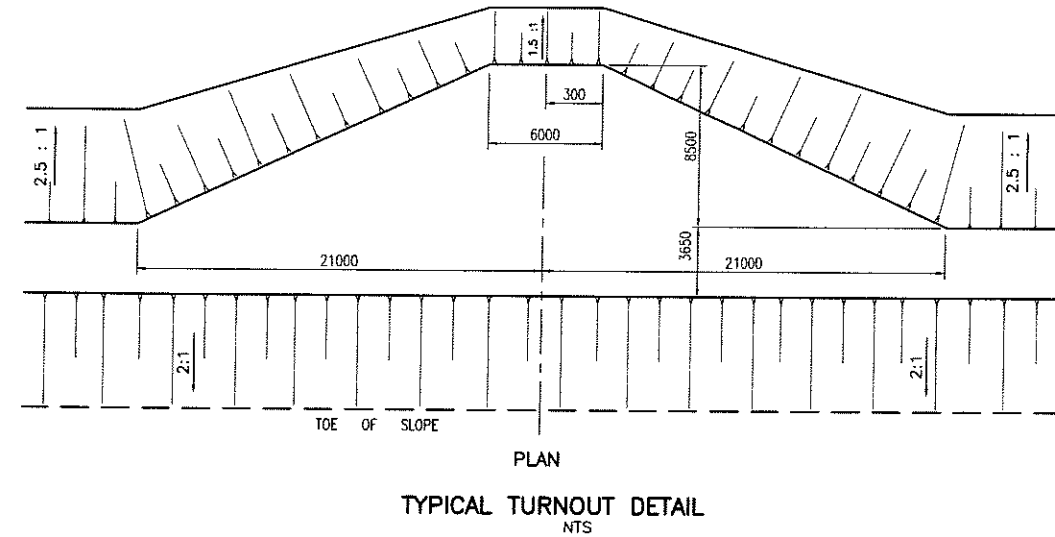


NOTE 1
 IF H < 2.0m LANDSIDE SLOPE SHALL BE 2H TO 1V
 IF H > 2.0m LANDSIDE SLOPE SHALL BE 2.5H TO 1V

NOTE:
 PULVERIZED ASPHALT WAS KEPT MINIMUM 1.5m FROM RIVER SIDE EDGE OF DYKE AS PER AMEC'S DIRECTION

DYKE MATERIALS (SEE SPECIFICATIONS - SECTION 2.3)

- TYPE I - 75 mm GRAVELY SAND
- TYPE II - 75 mm GRAVEL
- TYPE III - 19 mm CRUSHED GRAVEL



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PROFESSIONAL ENGINEER
 JOHN W. G. BOYLE
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FILE: F:\Recording\Chilliwack\186-78-5\186-78-5.dwg Tab Sheet 5 of 5-07-04 KIT

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CITY OF CHILLIWACK
 FRASER RIVER EAST DYKE UPGRADES
 STA. 0+500 TO 1+500
 MISCELLANEOUS DETAILS

SCALE: AS SHOWN
 DRAWING No. 186.78.5
 SHEET 5 OF 5 ISSUE B
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CITY OF CHILLIWACK

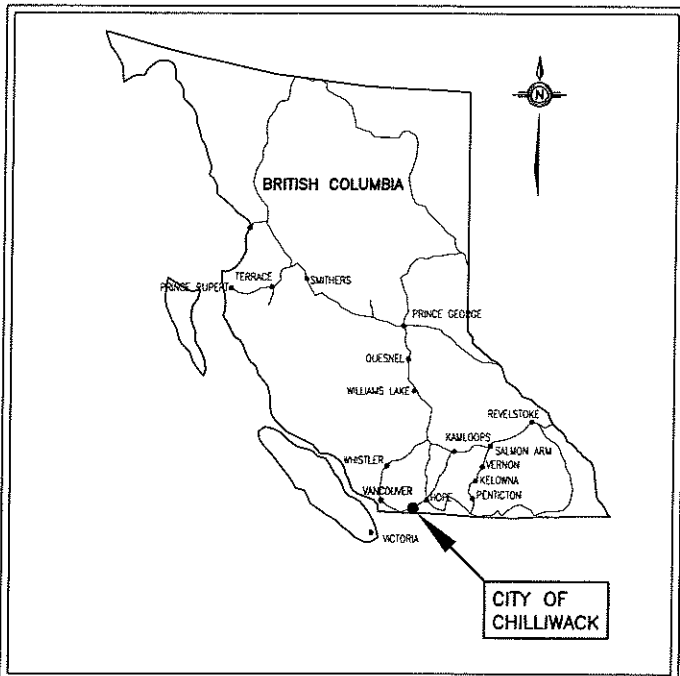
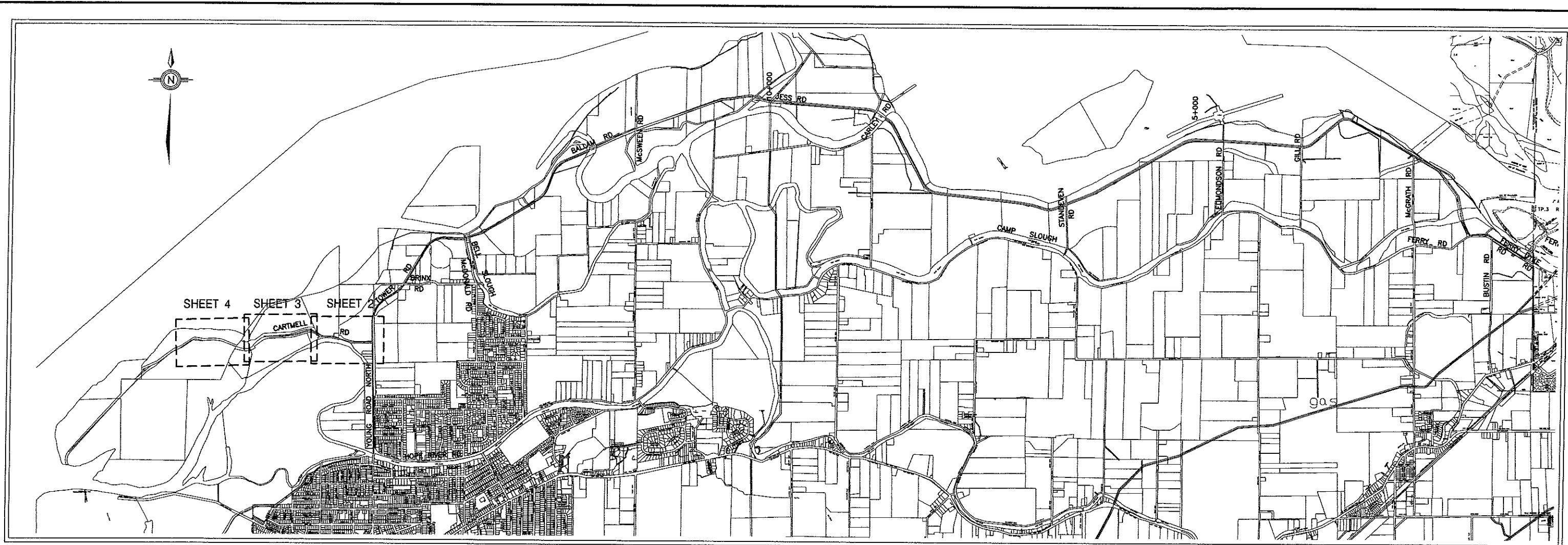
FRASER RIVER WING DYKE UPGRADES

CONTRACT No. 186.78.6

RECORD DRAWING



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KEY PLAN

LEGEND

| | |
|-------|--------------------------|
| --- | NEW DESIGN CREST PROFILE |
| --- | AS BUILT CREST PROFILE |
| --- | 2006 DESIGN RIVER LEVEL |
| --- | 2006 DYKE CREST |
| --- | NEW DYKE CENTERLINE |
| --- | NEW FENCE |
| --- | * FRFCP DYKE CREST |
| RP301 | OLD RELIEF PITS |
| RP303 | OLD DYKE CENTERLINE |
| --- | WOOD FENCE |
| --- | WIRE MESH FENCE |
| --- | BARBED WIRE FENCE |
| --- | ELECTRIC FENCE |
| --- | WATER |
| --- | GAS |
| --- | TELUS |
| --- | STORM |
| --- | CULVERT |
| --- | RIP RAP |
| PP-O | POWER POLE |
| --- | TREES/HEDGE |
| --- | CATCH BASIN |
| --- | OLD RELIEF WELL |
| --- | CATTLE GUARD |
| --- | SIGN |
| --- | NO-POST BARRIER |
| --- | GATE |
| --- | PAVED ROAD |
| --- | GRAVEL ROAD |



* FRASER RIVER FLOOD CONTROL PROGRAM

MONUMENTS

| Monument | Northing | Easting | Elev. |
|------------|-------------|------------|--------|
| Mon 671 | 5448279.560 | 576336.482 | 11.402 |
| Mon 772 | 5452212.579 | 581414.850 | 13.679 |
| Mon 770 | 5450912.413 | 583455.573 | 13.237 |
| Mon H360 | 5451555.655 | 585040.449 | 16.926 |
| Mon 89C174 | 5450549.760 | 587871.059 | 16.622 |
| Mon 767 | 5450354.751 | 588199.031 | 16.051 |
| Mon 670A | 5450532.645 | 577236.155 | 13.469 |

COORDINATES USED ON THESE DRAWINGS ARE BASED ON UTM NAD83 ZONE 10 GPS DERIVED GRID COORDINATES WHICH WERE TRANSFORMED INTO THIS LOCAL GROUND LEVEL SYSTEM. DISTANCES SHOWN ARE GROUND LEVEL. GRID TO GROUND SCALE FACTOR USED = 1.000316. GRID BEARINGS ARE APPROXIMATELY 0'51" LESS THAN ASTRONOMIC. SCALING POINT USED AT COORDINATES N5451769.956 E 586225.459

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INDEX TO DRAWINGS

| SHEET | TITLE |
|-------|---|
| 1 | KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND |
| 2 - 4 | PLAN AND PROFILE |
| 5 - 6 | CROSS SECTIONS |
| 7 | MISCELLANEOUS DETAILS |

**CITY OF CHILLIWACK
FRASER RIVER WING DYKE UPGRADES
CONTRACT No. 186.78.6**

PROFESSIONAL
OF
JOHN W. C. BOYLE
BRITISH COLUMBIA
OCT 11, 2007

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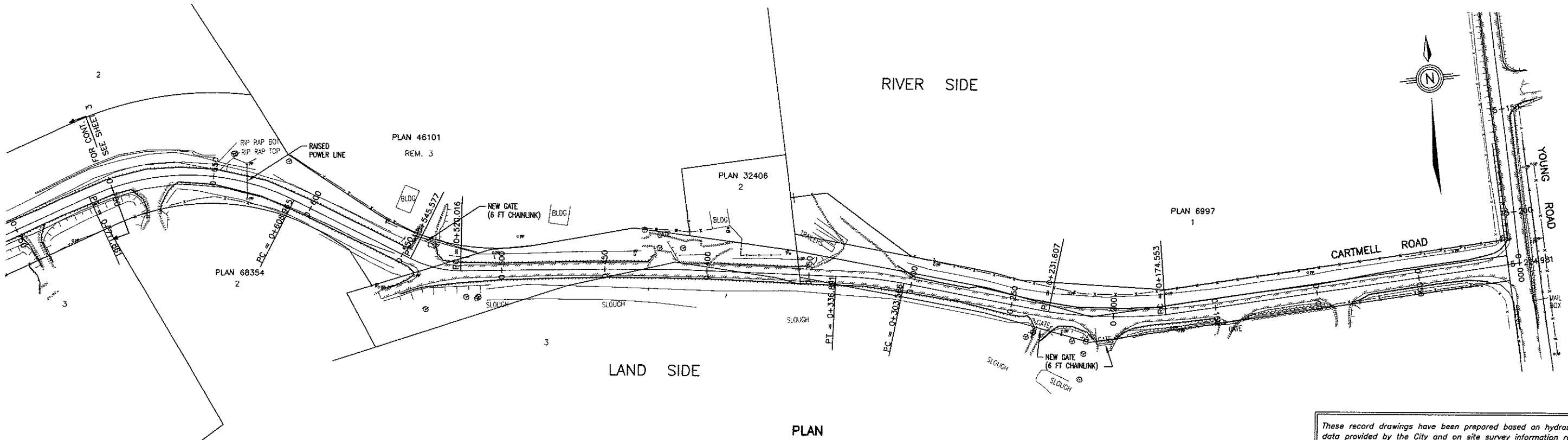
DESIGNED: J.S.
DRAWN: KS
CHECKED: [Signature]

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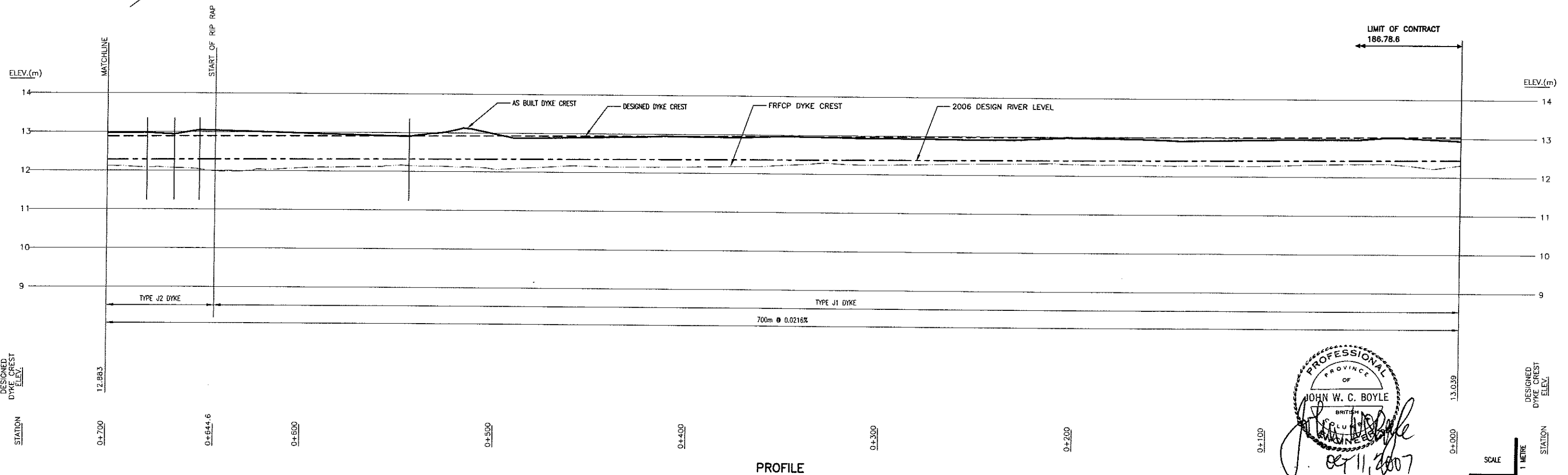
CITY OF CHILLIWACK
FRASER RIVER WING DYKE UPGRADES
KEY PLAN - AREA PLAN - INDEX TO DRAWINGS - LEGEND

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DRAWING No. 186.78.6
SHEET 1 OF 7 ISSUE B
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FILE: P:\Records\Chilliwack\186... KIT



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PROFESSIONAL
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BRITISH COLUMBIA
JOHN W. C. BOYLE
REGISTERED PROFESSIONAL ENGINEER
Oct 11, 2007

FILE: P:\Records\Chilliwack\186... SHT2_3_4.dwg Tab SHT2 07-09-25 RT

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION | ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
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CITY OF CHILLIWACK
FRASER RIVER WING DYKE UPGRADES
PLAN AND PROFILE

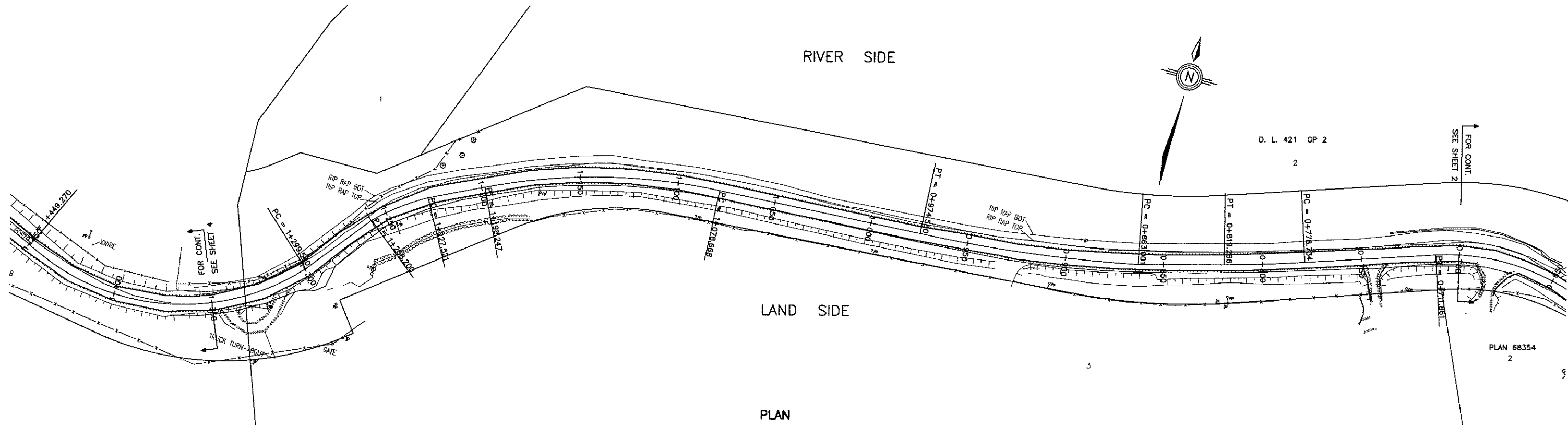
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SHEET 2 OF 7 ISSUE B
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RIVER SIDE



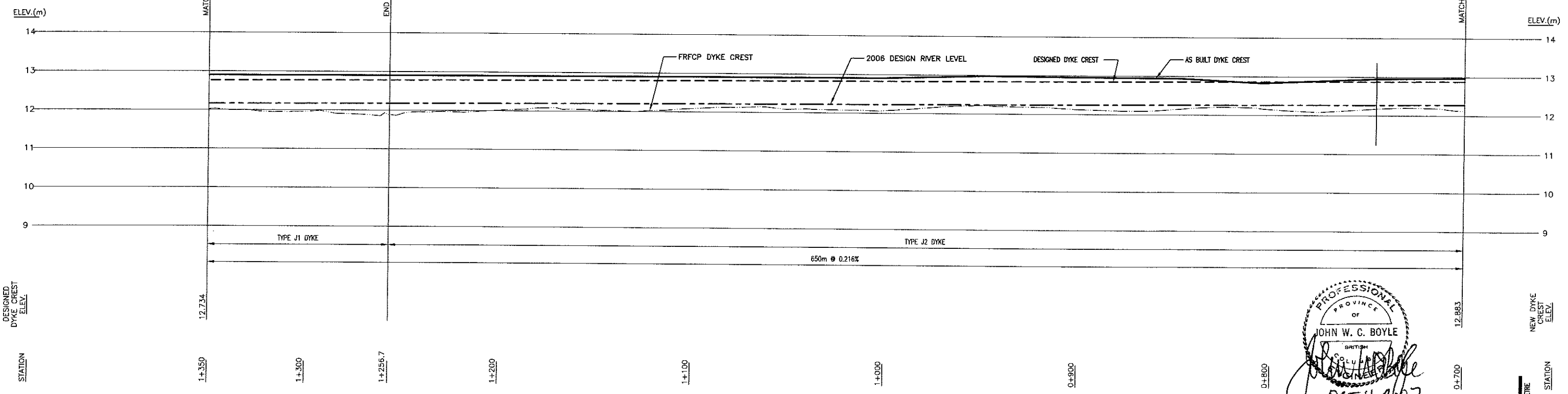
D. L. 421 GP 2
2

FOR CONT.
SEE SHEET 2



PLAN

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PROFILE

PROFESSIONAL
OF
JOHN W. C. BOYLE
BRITISH
COLUMBIA
ENGINEER
OCT 11, 2007

FILE: P:\Projects\Chilliwack\180... AutoCAD

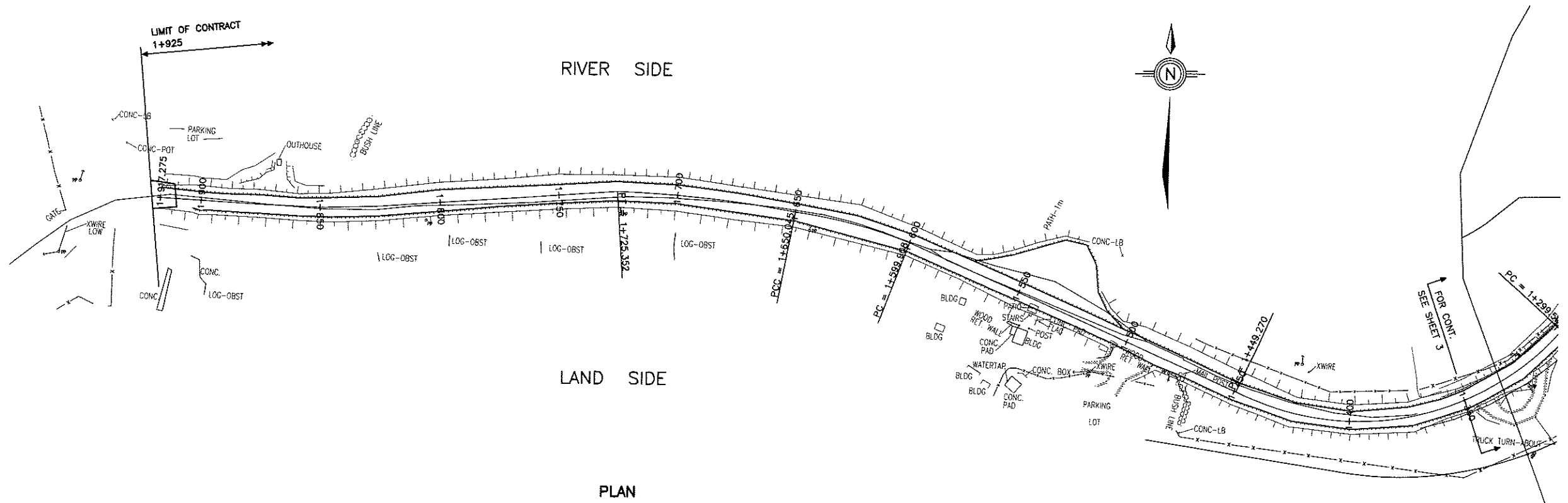
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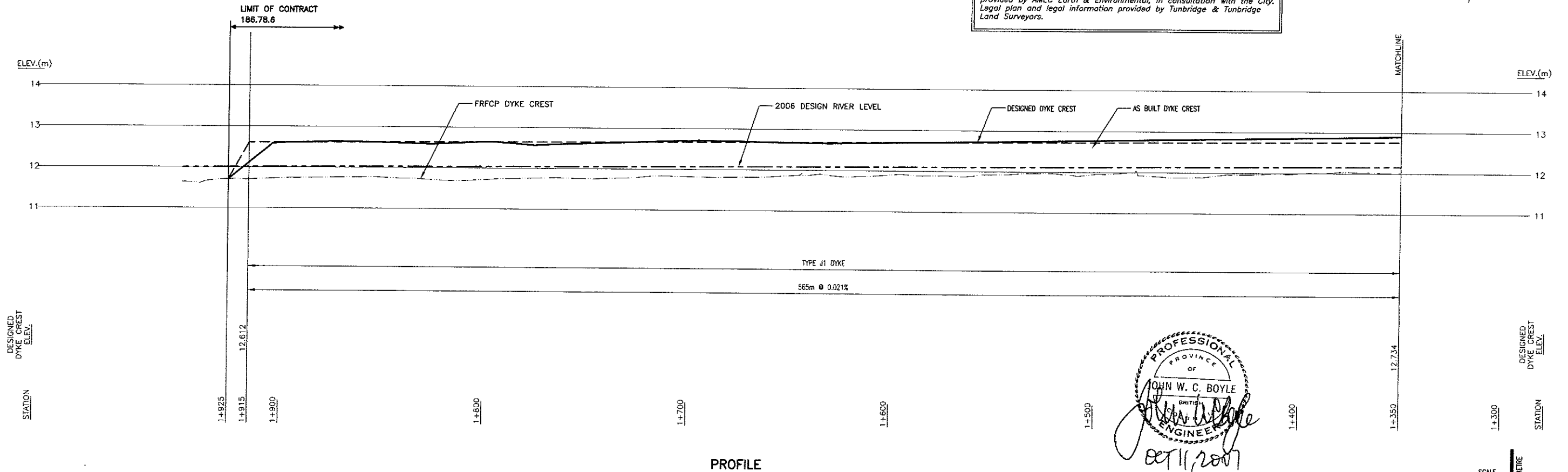
CITY OF CHILLIWACK
FRASER RIVER WING DYKE UPGRADES
PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
DRAWING No. 186.78.6
SHEET 3 OF 7 ISSUE B
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PLAN

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PROFILE

PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 JOHN W. C. BOYLE
 OCT 11, 2007

SCALE
 1 METRE
 25 METRES

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION | ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|----------|-------|-------|-------------|----------------|-------|------|-------|-------|-------|-------------|
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 DRAWN KS
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CITY OF CHILLIWACK
 FRASER RIVER WING DYKE UPGRADES
 PLAN AND PROFILE

SCALE: H. 1:1000; V. 1:50
 DRAWING No. 186.78.6
 SHEET 4 OF 7 ISSUE B
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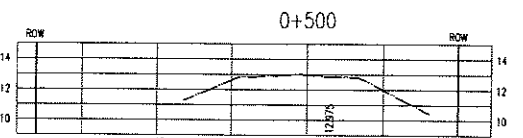
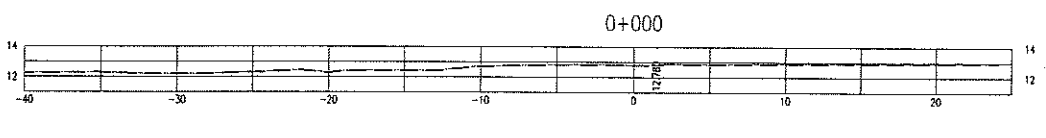
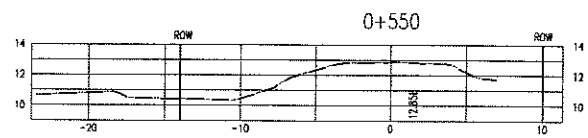
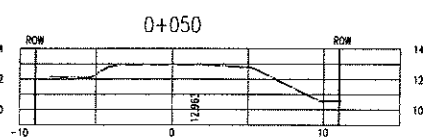
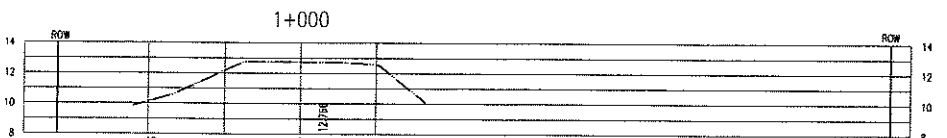
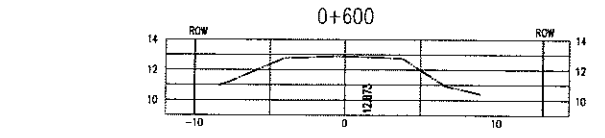
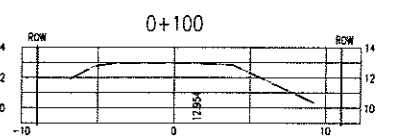
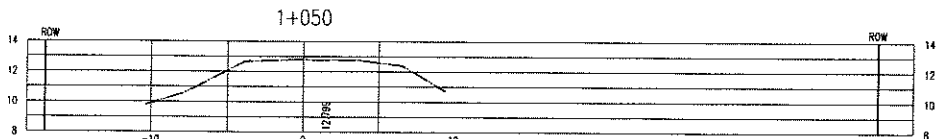
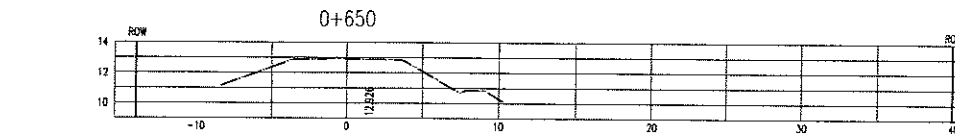
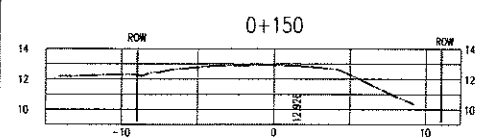
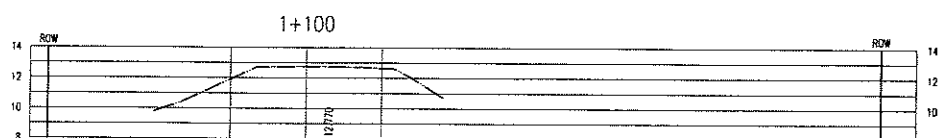
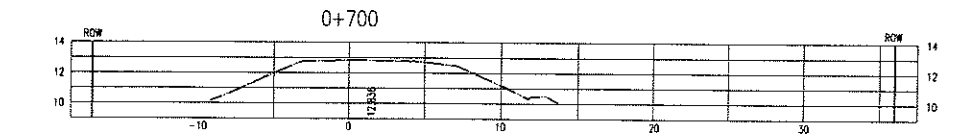
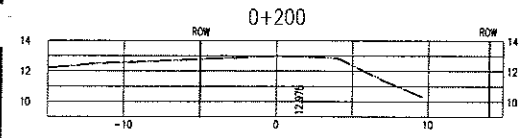
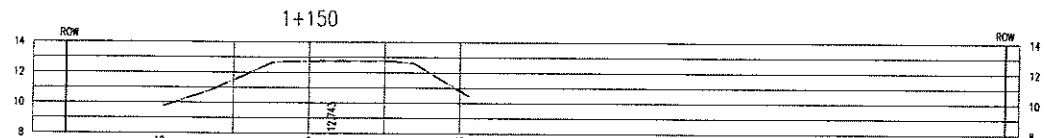
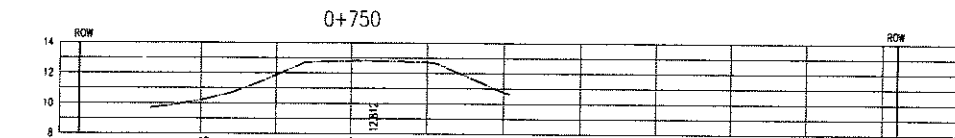
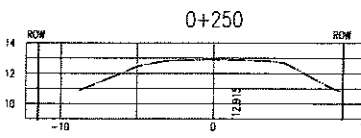
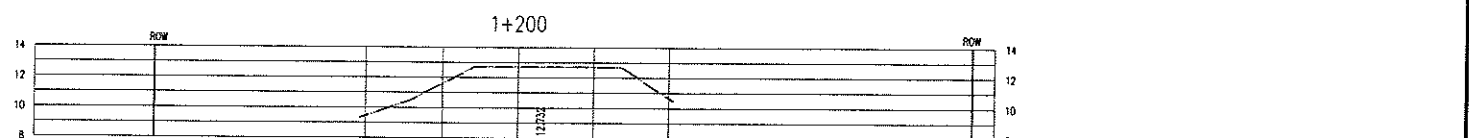
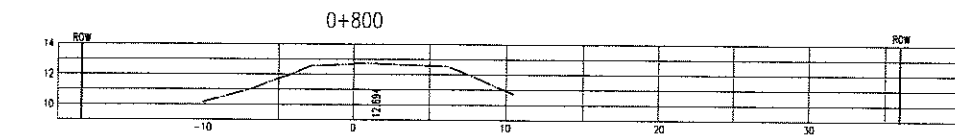
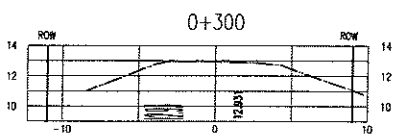
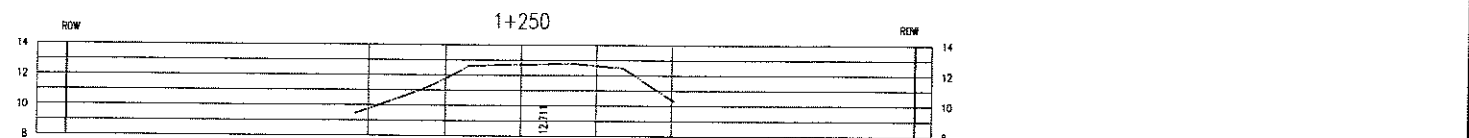
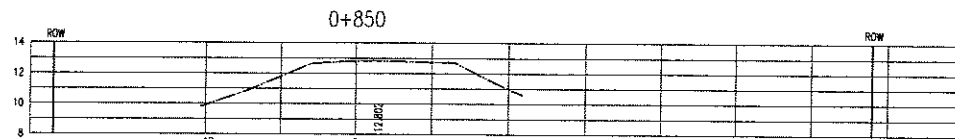
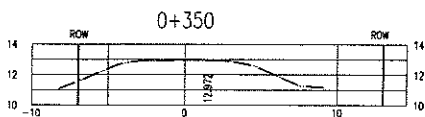
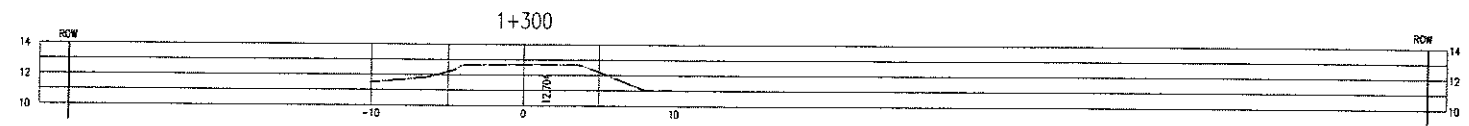
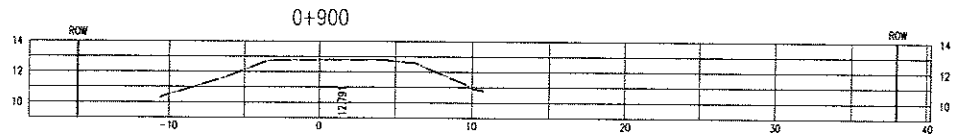
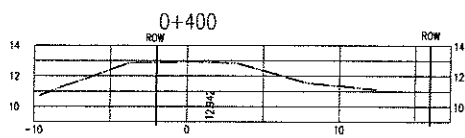
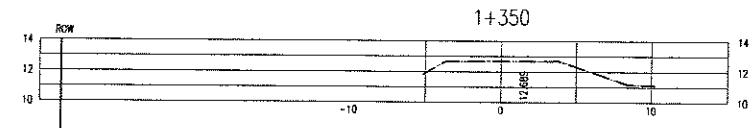
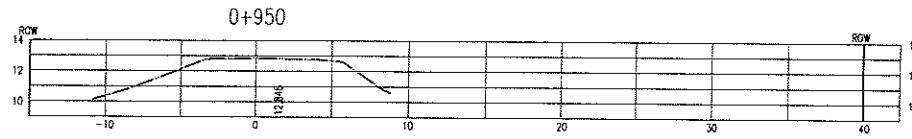
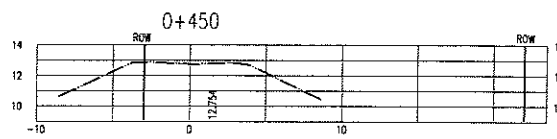
RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)



PROFESSIONAL
OF
JOHN W. DOYLE
ENGINEER
OCT 11, 2007

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FILE: P:\Projects\Chilliwack\186-78-6-SH

PLOT: FULL 1:1 HALF 1:2

| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|----------|-------|-------|-------|-------------------------|
| A | 27/04/07 | KS | JWCB | JWCB | ISSUED FOR CONSTRUCTION |
| B | JUN19/07 | KS | JWCB | JWCB | RECORD DRAWING |

DESIGNED J.S.
DRAWN KS
CHECKED JWCB

Dayton & Knight Ltd.
CONSULTING ENGINEERS
#210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1
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CITY OF CHILLIWACK
FRASER RIVER WING DYKE UPGRADES
CROSS SECTIONS

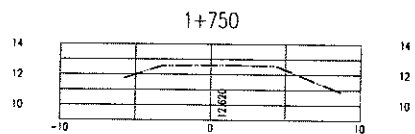
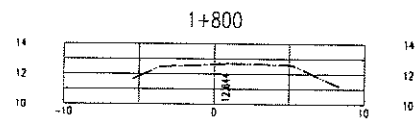
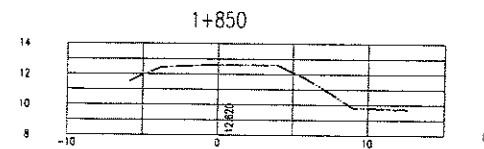
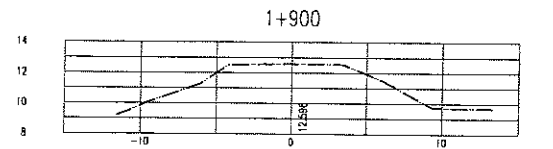
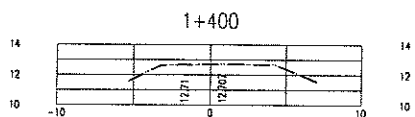
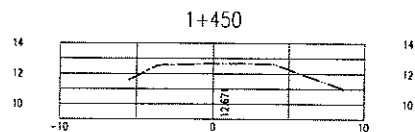
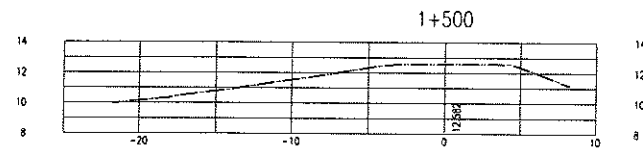
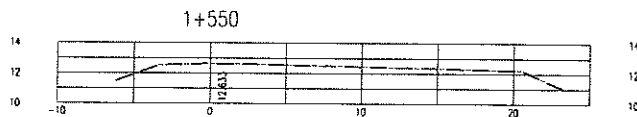
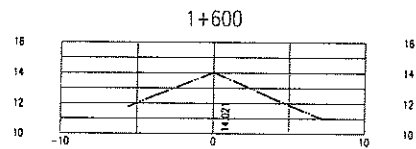
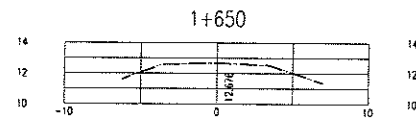
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DRAWING No. 186.78.6
SHEET 5 OF 7 ISSUE B
THIS DRAWING REDUCED TO HALFSIZE

LAND SIDE (TYP.)

RIVER SIDE (TYP.)

LAND SIDE (TYP.)

RIVER SIDE (TYP.)



PROFESSIONAL
 PROVINCE OF
 JOHN W.C. ROYLE
 ENGINEER
 OCT 11, 2007

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| ISSUE | DATE | DRAWN | CHK'D | APP'D | DESCRIPTION |
|-------|----------|-------|-------|-------------|----------------|
| B | JUN19/07 | KS | JS | [Signature] | RECORD DRAWING |

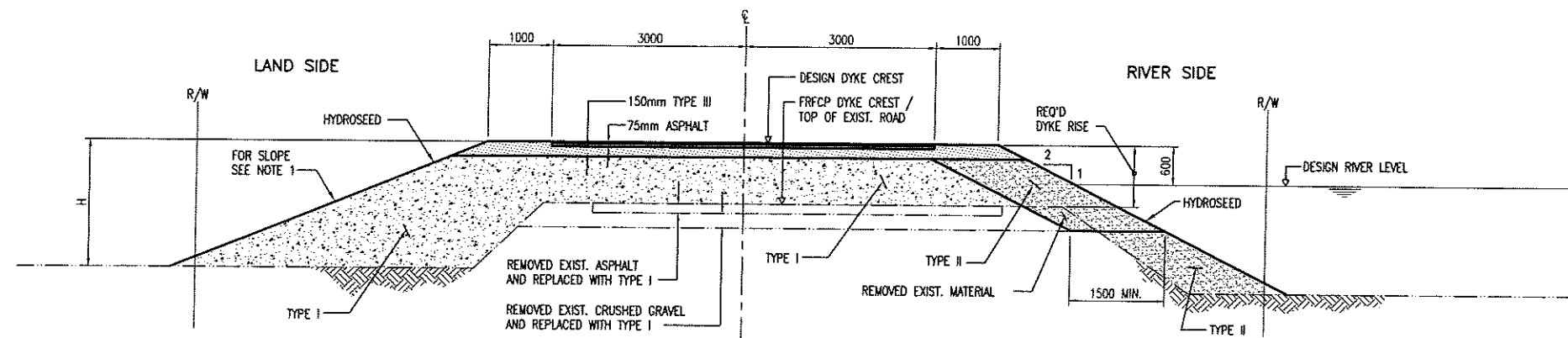
DESIGNED J.S.
 DRAWN KS
 CHECKED [Signature]

Dayton & Knight Ltd.
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CITY OF CHILLIWACK
 FRASER RIVER WING DYKE UPGRADES
 CROSS SECTIONS

SCALE: 1:250
 DRAWING No. 186.78.6
 SHEET 6 OF 7 ISSUE B
 THIS DRAWING REDUCED TO HALFSIZE

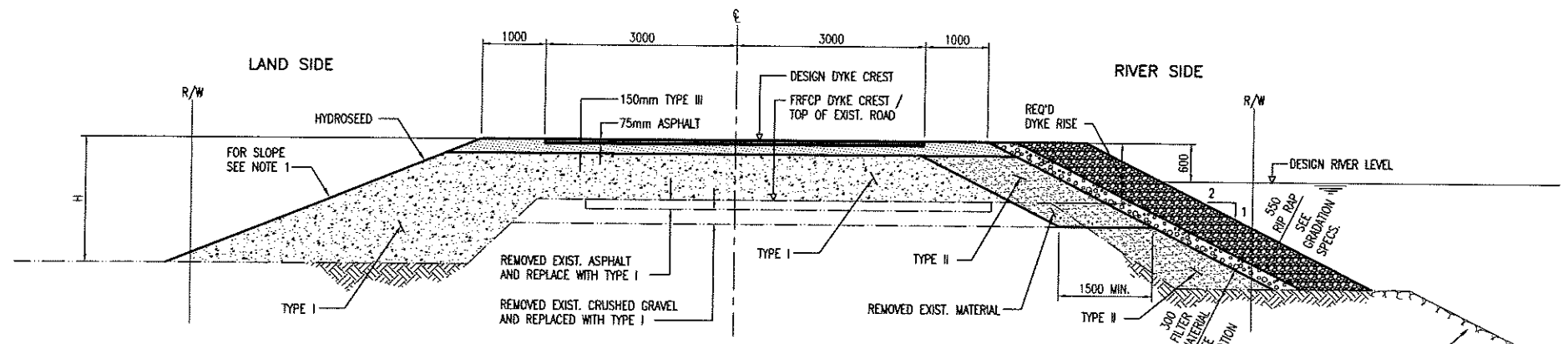
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TYPE J1 DYKE CROSS-SECTION
NTS

FOR USE WHERE DESIGN RIVER WATER LEVEL IS AT OR ABOVE TOP OF EXISTING ROAD

NOTE 1
IF H < 2.0m LANDSIDE SLOPE SHALL BE 2H TO 1V
IF H > 2.0m LANDSIDE SLOPE SHALL BE 2.5H TO 1V



TYPE J2 DYKE CROSS-SECTION
NTS

FOR USE WHERE DESIGN RIVER WATER LEVEL IS AT OR ABOVE TOP OF EXISTING ROAD

| GRADATION SPECIFICATIONS | |
|--------------------------|-----------------|
| RIP RAP | |
| SIEVE SIZE (mm) | PERCENT PASSING |
| 850 | 85 |
| 600 | 50 |
| 300 | 15 |
| FILTER | |
| SIEVE SIZE (mm) | PERCENT PASSING |
| 75 | 100 |
| 40 | 40-85 |
| 10 | 10 |
| 1 | 0 |

PROFESSIONAL
ENGINEER
OF
THE
PROVINCE
OF
BRITISH
COLUMBIA
JOHN W. C. BOYLE
02/11/2007

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