APPENDIX C

Bridge Construction Administration Forms

The latest versions of these forms can be found on Alberta Transportation's website: https://www.transportation.alberta.ca/919.htm

SUMMARY TABLE – APPENDIX C BRIDGE CONSTRUCTION ADMINISTRATION FORMS

Form No.	Form Name
C.01	Pile Data
C.02	Final Bridge Construction Report
C.03	Bridge Construction Completion
C.04	Bridge Warranty Inspection
C.05	SL_SLW Girder Inspection Report
C.06	SLC Girder Inspection Report
C.07	NU Girder Inspection Report
C.08	CSP Inspection Report
C.09	SPCSP Inspection Report
C.10	Culvert Installation Inspection Record
C.11	Culvert Barrel Measurements
C.12	Concrete Test Results



PILE DATA

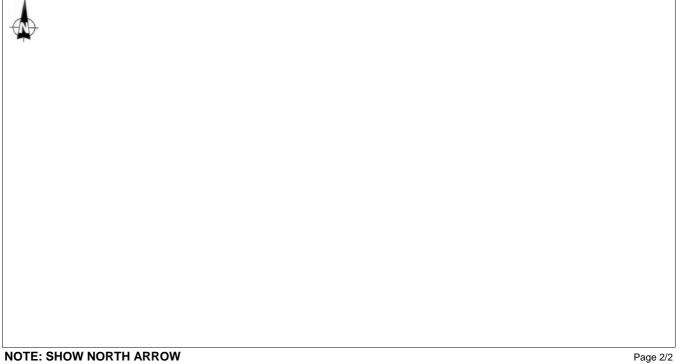
					Date	e:	
Project:		Contract No:		В	ridge File No	o.	
Project Sponsor:			Contracto	or:			
Consultant Inspector:			Piling Su	b:			
Ground/Ice Elevation:		Location: Sta	a	:	m rt/ft	Abut/Pier No	
Pile No:	Pile Type:			Pile Leng	gth:		
Type of Hammer:		ſ	Mass/Energy	of Hamm	ner:		kg/kj
Efficiency Factor:							_
Remarks:							

Depth of	Number	-		Depth of	Number	Drop of	
Pile	of	Hammer	Remarks	Pile	of	Hammer	Remarks
(m)	Blows	(m)		(m)	Blows	(m)	
0.00 - 0.25				8:00 - 8.25			
0.25 - 0.50				8.25 - 8.50			
0.50 - 0.75				8.50 - 8.75			
0.75 - 1.00				8.75 - 9.00			
1.00 - 1.25				9.00 - 9.25			
1.25 - 1.50				9.25 - 9.50			
1.50 - 1.75				9.50 - 9.75			
1.75 - 2.00				9.75 - 10.00			
2.00 - 2.25				10.00 - 10.25			
2.25 - 2.50				10.25 - 10.50			
2.50 - 2.75				10.50 - 10.75			
2.75 - 3.00				10.75 - 11.00			
3.00 - 3.25				11.00 - 11.25			
3.25 - 3.50				11.25 - 11.50			
3.50 - 3.75				11.50 - 11.75			
3.75 - 4.00				11.75 - 12.00			
4.00 - 4.25				12.00 - 12.25			
4.25 - 4.50				12.25 - 12.50			
4.50 - 4.75				12.50 - 12.75			
4.75 - 5.00				12.75 - 13.00			
5.00 - 5.25				13.00 - 13.25			
5.25 - 5.50				13.25 - 13.50			
5.50 - 5.75				13.50 - 13.75			
5.75 - 6.00				13.75 - 14.00			
6.00 - 6.25				14.00 - 14.25			
6.25 - 6.50				14.25 - 14.50			
6.50 - 6.75				14.50 - 14.75			
6.75 - 7.00				14.75 - 15.00			
7.00 - 7.25				15.00 - 15.25			
7.25 - 7.50				15.25 - 15.50			
7.50 - 7.75				15.50 - 15.75			
7.75 - 8.00				15.75 - 16.00			

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Depth of	Number	Drop of		Depth of	Number	Drop of	
Pile	of	Hammer	Remarks	Pile	of	Hammer	Remarks
(m)	Blows	(m)		(m)	Blows	(m)	
16.00 - 16.25				22.00 - 22.25			
16.25 - 16.50				22.25 - 22.50			
16.50 - 16.75				22.50 - 22.75			
16.75 - 17.00				22.75 - 23.00			
17.00 - 17.25				23.00 - 23.25			
17.25 - 17.50				23.25 - 23.50			
17.50 - 17.75				23.50 - 23.75			
17.75 - 18.00				23.75 - 24.00			
18.00 - 18.25				24.00 - 24.25			
18.25 - 18.50				24.25 - 24.50			
18.50 - 18.75				24.50 - 24.75			
18.75 - 19.00				24.75 - 25.00			
19.00 - 19.25				25.00 - 25.25			
19.25 - 19.50				25.25 - 25.50			
19.50 - 19.75				25.50 - 25.75			
19.75 - 20.00				25.75 - 26.00			
20.00 - 20.25				26.00 - 26.25			
20.25 - 20.50				26.25 - 26.50			
20.50 - 20.75				26.50 - 26.75			
20.75 - 21.00				26.75 - 27.00			
21.00 - 21.25				27.00 - 27.25			
21.25 - 21.50				27.25 - 27.50			
21.50 - 21.75				27.50 - 27.75			
21.75 - 22.00				27.75 - 28.00			

SKETCH OF PILE LOCATION





PILE DATA

							Date:	3-May-08	<u> </u>	
Project:	BF 1504		Contract No:	CO	N0012345	Brid	ge File No.			
Project Sponsor:					Contracto	or:	XYZ Co	ntracting		
Consultant Inspector:				_	Piling Su	b:	ABC Pili	ing		-
Ground/Ice Elevation:	1000		Location:	Sta		:	m rt/ft	Abut/Pier No	:	1
Pile No:		Pile Type:				Pile Length:	9.6 m			
Type of Hammer:		Delmay D19)-42	Mas	ss/Energy	of Hammer			kg/kj	-
Efficiency Factor:									=	
Remarks:									_	

Depth of	Number	_		Depth of	Number	Drop of	
Pile	of	Hammer	Remarks	Pile	of	Hammer	Remarks
(m)	Blows	(m)		(m)	Blows	(m)	
0.00 - 0.25			pile's own weight	8:00 - 8.25			
0.25 - 0.50			pile's own weight	8.25 - 8.50			
0.50 - 0.75			pile's own weight	8.50 - 8.75			
0.75 - 1.00			pile's own weight	8.75 - 9.00			
1.00 - 1.25	2			9.00 - 9.25			
1.25 - 1.50	2			9.25 - 9.50			
1.50 - 1.75	2			9.50 - 9.75			
1.75 - 2.00	2			9.75 - 10.00			
2.00 - 2.25	2			10.00 - 10.25			
2.25 - 2.50	2			10.25 - 10.50			
2.50 - 2.75	2			10.50 - 10.75			
2.75 - 3.00	2			10.75 - 11.00			
3.00 - 3.25	2			11.00 - 11.25			
3.25 - 3.50	2			11.25 - 11.50			
3.50 - 3.75	4			11.50 - 11.75			
3.75 - 4.00	4			11.75 - 12.00			
4.00 - 4.25	6			12.00 - 12.25			
4.25 - 4.50	8			12.25 - 12.50			
4.50 - 4.75	10			12.50 - 12.75			
4.75 - 5.00	12			12.75 - 13.00			
5.00 - 5.25	11			13.00 - 13.25			
5.25 - 5.50	11			13.25 - 13.50			
5.50 - 5.75	16			13.50 - 13.75			
5.75 - 6.00	16			13.75 - 14.00			
6.00 - 6.25	27			14.00 - 14.25			
6.25 - 6.50	28			14.25 - 14.50			
6.50 - 6.75	28			14.50 - 14.75			
6.75 - 7.00	29			14.75 - 15.00			
7.00 - 7.25	29			15.00 - 15.25			
7.25 - 7.50	36			15.25 - 15.50			
7.50 - 7.75	40			15.50 - 15.75			
7.75 - 8.00	43			15.75 - 16.00			

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Depth of	Number	Drop of		Depth of	Number	Drop of	
Pile	of	Hammer	Remarks	Pile	of	Hammer	Remarks
(m)	Blows	(m)		(m)	Blows	(m)	
16.00 - 16.25				22.00 - 22.25			
16.25 - 16.50				22.25 - 22.50			
16.50 - 16.75				22.50 - 22.75			
16.75 - 17.00				22.75 - 23.00			
17.00 - 17.25				23.00 - 23.25			
17.25 - 17.50				23.25 - 23.50			
17.50 - 17.75				23.50 - 23.75			
17.75 - 18.00				23.75 - 24.00			
18.00 - 18.25				24.00 - 24.25			
18.25 - 18.50				24.25 - 24.50			
18.50 - 18.75				24.50 - 24.75			
18.75 - 19.00				24.75 - 25.00			
19.00 - 19.25				25.00 - 25.25			
19.25 - 19.50				25.25 - 25.50			
19.50 - 19.75				25.50 - 25.75			
19.75 - 20.00				25.75 - 26.00			
20.00 - 20.25				26.00 - 26.25			
20.25 - 20.50				26.25 - 26.50			
20.50 - 20.75				26.50 - 26.75			
20.75 - 21.00				26.75 - 27.00			
21.00 - 21.25				27.00 - 27.25			
21.25 - 21.50				27.25 - 27.50			
21.50 - 21.75				27.50 - 27.75			
21.75 - 22.00				27.75 - 28.00			

SKETCH OF PILE LOCATION



NOTE: SHOW NORTH ARROW

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Appendix C.01



FINAL BRIDGE CONSTRUCTION REPORT

		Date:
Pro	oject:	Contract #:
Со	ontractor:	Bridge File #:
Pro	oject Sponsor:	Consultant:
A.	<u>General</u>	
	Bridge Name:	
	Highway No./Stream:	
	Location:	
	Span Lengths:	
	Girder Type:	
	Number of Piers:	
	Vertical Clearance:	
	Horizontal Clearance:	
В.	Contract	
Б.	Contract Contract No.:	
	Contract Tendering Date:	
	Contract Closing Date:	
	Contractor:	
	Site Occupancy Days Bid: Site Occupancy Days Used:	
	Specified Completion Date:	
	Actual Completion Date:	
	Girder Supplier & Erector:	
	Date Girder Erected:	
	Date Grouting Completed:	
	Type of Grout/Product Name:	
_		
C.		
	I. Abutment #1	
	Hammer Type & Size:	
	Pile Type:	
	Max/Min Penetration:	
	Date Completed Seat & Wingwall Pours:	
	Type of Concrete Finishing & Product Nam	ne:

Transportation

FINAL BRIDGE CONSTRUCTION REPORT

	II.	Abutment #2
		Hammer Type & Size:
		Pile Type:
		Max/Min Penetration:
		Date Completed Seat & Wingwall Pours:
		Type of Concrete Finishing & Product Name:
	III.	<u>Piers</u>
		(i) Type of Foundation:
		Spread Footing:
		Piles:
		Berm or Cofferdam & Description:
		Type of Piles:
		Max/Min Penetration:
		Completion Date:
		Type of Concrete Finishing & Product Name:
		(ii)
		(iii)
		(iv)
D.	Sup	<u>perstructure</u>
D.	<u>Sur</u> I.	<u>Deck</u>
D.		
D.		<u>Deck</u>
D.		Deck Date Poured:
D.		Deck Date Poured: Type of Wearing Surface:
D.		Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name:
D.	I.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed:
D.	I.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers:
D. E.	II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name:
	II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed:
	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name: Increte Data each Class of Concrete Provide: a) Concrete Mix Design, b) Concrete Supplier, c) Summary of Test Results
	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name:
E.	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name: Increte Data each Class of Concrete Provide: a) Concrete Mix Design, b) Concrete Supplier, c) Summary of Test Results
E.	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name: Increte Data each Class of Concrete Provide: a) Concrete Mix Design, b) Concrete Supplier, c) Summary of Test Results
E.	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name: Increte Data each Class of Concrete Provide: a) Concrete Mix Design, b) Concrete Supplier, c) Summary of Test Results
E.	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name: Increte Data each Class of Concrete Provide: a) Concrete Mix Design, b) Concrete Supplier, c) Summary of Test Results
E.	I. II.	Deck Date Poured: Type of Wearing Surface: Type of Waterproofing/Product Name: Date Installed: Curbs/Barriers: Date Completed: Type of Sealers/Product Name: Increte Data each Class of Concrete Provide: a) Concrete Mix Design, b) Concrete Supplier, c) Summary of Test Results

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Bridge Construction Completion

Project Description: Project Sponsor: Consultant:			Highway: Project Admin.: Project Manager:			
Contractor: Project Manager: Bridge Subcontractor: Project Manager:	Contract No.:					
BRIDGE CONSTRUCTION	COMPLE	TION INSPECT	ΓΙΟΝ:			
Date of Inspection: Department Representatives: Consultant representatives: Contractor Representatives: Bridge Subcontractor Rep's: Deficiencies Warranty HOLDBACK RELEASE INF	Item 1 Item 2 Item 3	None	As noted below		1 Inspection Date	
Final Progress Date Quantity Acceptance Claims: Claims Details	□ None	WCB Clearance Date Statutory Disputed Items				Other
DEFICIENCIES:					Date Corrected	
Draft Submission: Cost Estin Current: Previous: Includes: Engineering, 0		Type on, Contingenci	Review Meeting:	Mile Warranty Insp	Final Submission: stone Schedule ection (Item 1) ection (Item 2)	<u>Date</u>
Consultant Brainet Managan			Project Administrator		Project Spansor	

Copies to: Consultant, TSB, Bridge File



Bridge Warranty Inspection

Project Sponsor's Signature

						Bridge File #:		
Drainat Department				Highway		Region:		
Project Description: Project Sponsor:			Droin at Ada	Highway:		Road Authority TSB Liaison:	y:	
							.+•	
Consultant.	Consultant: Project Manager: CE Agreement:							
Contractor:						Contract No.:		
Project Manager:				Site S	Superintendent:			
Bridge Subcontractor:								
Project Manager:				Site S	Superintendent:			
BRIDGE WARRANTY INS	SPECTION	N						
Date of Warranty Inspect	ion				BIM Level 1	Inspection Date		
Department Representativ	/es							
Consultant representative	s							
Contractor Representative	es							
Bridge Subcontractor Rep	's							
Deficiencies		☐ None	☐ As Noted	Below	[Date All Deficienc	ies Corrected	
Final Acceptance		☐ Will Be Iss	ued	Pending Re	ctification of War	rranty Items		
Holdback released Date								
Warranty	Item 1				Length (Year)		End Date	
	Item 2				Length (Year)		End Date	
	Item 3				Length (Year)		End Date	
HOLDBACK RELEASE II	NFORMAT	TION						
Final Progress Date			WCE	3 Clearance Date		Stat. De	claration Date	
Quantity Acceptance				Disputed Items				
Claims	None	е	Contracto	or	Subcontract	or	Other	
Claims Details								
DEFICIENCIES:								
No.			Description	on			Date (Corrected
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

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Project Administrator's Signature



Bridge File #:	
Date:	
Ву:	
Page:	1 of 5

GIRDER SERIAL NO.			
FAB. MARK NO.			
GIRDER TYPE			
CAST DATE			

A. MATERIAL

1. REINFORCING STEEL

• Tack welding of reinforcing steel is not allowed.

_	_		
Grade			
Size			
Bends			
Cleanliness			

2. STRAND

• Only low relaxation strand allowed.

Condition, cleanliness			
E (Same as stressing Calcs)			

3. VOIDS

• Splices in sonotubes are not allowed.

Diameter			
Condition			

4. CHANNEL CONNECTORS

• Anchors are properly welded.

Dimensions			
Galvanizing			
Slots deburred			

5. BUFFER ANGLES

• Studs are properly welded.

Dimensions			
Galvanizing			

6. ANCHOR BOLTS

Assembly dimensions			
Galvanizing			



Bridge File #:	
Date:	
Ву:	
Page:	2 of 5

B. FORM SET-UP

- Prior to form set-up approved shop drawings, stressing calculations and mix design on hand.
- Forms clean, straight with mortar tight joints and sprayed with a form release agent.
- Serial number, loading, year of manufacture and fabricator's name cast into the girder.

1	F	0	R	Ν	7

Length			
Width			
Depth			
Skew			
Sweep			
Bulkheads - braced			

2. STRESSING

- Observe stressing operations, stressing records are maintained by plant's quality control personnel.
- Strand splices inside the member are not allowed.
- Elongation and gauge pressure must be within 5% (combined) of that specified in the approved stressing calcs.
- Strands are recessed 15 mm inside the girder.

Strand pattern, location			
Elongation			
Gauge pressure			

3. REBAR

Chairs shall be plastic or galvanized metal.

Spacing			
Lap			
Cover			

4. CHANNEL CONNECTORS

Spacing			
Securely held in position			

5. VOIDS

Hold downs shall be adequate to maintain the final location of voids.

Top cover			
Sealed			
Location			

6. BUFFER ANGLES

5 mm recess			



Bridge File #		
Date:		
Ву:		_
Dage.	3 of 5	

Transportation	INSPECTION REPORT		Ву:			
Transportation				Page:	3 of 5	
7. LIFTING HOOKS			-	<u> </u>		
Location						
Pockets						
Projection						
8. PLINTHS						
Anchor bolt spacing						
Anchor bolt projection						
9. DOWEL HOLES						
Hole size & location						
		C. CASTIN	G			
1. CONCRETE						
Unit weight						
Air						
Slump						
Temperature						
Release strength						
28 days strength						
2. PLACING						
Drop						
Vibration						
3. VOIDS						
Position						
Cover						
4. FINISH				-		
Girder top Finish around anchor bolts						
T I III OI GIOGIA GIONOI DOIG						
5. INITIAL CURING						
After 4 hours of final concrete						
Curing temperature						



Bridge File #:	
Date:	
Ву:	
Page:	4 of 5

D. REMOVAL FROM THE FORM 1. STRAND RELEASE SEQUENCE						
	oroved sketch	QUENCE	<u> </u>			
2. CLEA						
Fin remova	al		$\overline{\top}$			
Minor pato						
	eam curing)		<u> </u>			
3. GIRDE	ER					
Length			T			
Width						
Depth						
Skew						
Sweep						
_	24 hours					
Camber	7 days					
Carribo.	14 days]			
	shipping					
Ends						
Bearing ar	rea smooth & flat					
Interior un	its (cavities					
over 10 m	m repaired)					
Exterior ur	nits (all					
cavities re	paired)					
Honey-	In bearing area					
comb	At other locations					
 E. CURING 1. STEAMING • Steam curing for four days with 95% - 100% relative humidity and 40° C to 50° C temperature. 						
Temperatu	ure					
Relative H						
Date unit i						
Day unit o						



Bridge File #:	
Date:	
By:	
Page:	5 of 5

F. FINISHES							
1. SEALER							
Туре							
Application							
2. GIRDER FINISHES							
Тор							
Bottom							
Sides							
	G. FINAL						
1. CHANNEL CONNECTO	RS	Г		Г			
Clean inside & outside							
2. ANCHOR BOLTS							
Bolt clean							
Nuts free to spin							
3. STORAGE	3. STORAGE						
Safe							
Blocking							



SLC GIRDER INSPECTION REPORT

Bridge File #:	
Date:	
Ву:	
Page:	1 of 5

GIRDER SERIAL NO.			
FAB. MARK NO.			
GIRDER TYPE			
CAST DATE			

A. MATERIAL

1	R	FI	VF.	OR	CIN	JG	ST	EEI	

• Tack welding of reinforcing steel is not allowed.

Grade			
Size			
Bends			
Cleanliness			

2. STRAND

Only low relaxation strand allowed.

Condition, cleanliness			
E (Same as stressing Calcs)			

3. VOIDS

• Splices in sonotubes are not allowed.

Diameter			
Condition			

4. ANCHOR BOLTS

Assembly dimensions			
Galvanizing			

5. INSERTS

Size			
Galvanizing			



Bridge File #:	
Date:	
Ву:	
Page:	2 of 5

B. FORM SET-UP

•	Prior to form set-up,	approved shop	o drawings,	stressing	calculations	and mix	design o	n hand	ł.
---	-----------------------	---------------	-------------	-----------	--------------	---------	----------	--------	----

- Forms clean, straight with mortar tight joints and sprayed with a form release agent.
- Serial number, loading, year of manufacture and fabricator's name cast into the girder.

1. FORM

Length			
Width			
Depth			
Skew			
Sweep			
Bulkheads - braced			

2. STRESSING

- Observe stressing operations, stressing records are maintained by plant's quality control personnel.
- Strand splices inside the member are not allowed.
- Elongation and gauge pressure must be within 5% (combined) of that specified in the approved stressing calc's.
- Check length and sheathing for unbonded strands.
- Strand are recessed 15 mm inside the girder.

Strand pattern			
Elongation			
Gauge pressure			

3. REBAR

• Chairs shall be plastic.

Spacing			
Lap			
Cover			
Projection			

4. VOIDS

Hold downs shall be adequate to maintain the final location of voids.

Top cover			
Sealed			
Location			



Bridge File	· #:	
Date:		
Ву:		
Page.	3 of 5	

				i age.	0 01 0			
B. FORM SET-UP (Continued)								
5. LIFTING HOOKS		<u> </u>						
Location								
Pockets								
Projection								
6. DOWEL HOLES								
Hole size & location								
7. INSERTS								
Location								
C. CASTING 1. CONCRETE								
Unit weight								
Air								
Slump								
Temperature								
Release strength								
28 days strength								
2. PLACING								
Drop								
Vibration								
3. VOIDS								
Position								
Cover								
4. FINISH								
Girder top								
Curb Top								
Finish around anchor bolts								
5. INITIAL CURING								
After 4 hours of final concrete								
Curing temperature								
· · · · · · · · · · · · · · · · · · ·		•	·	•				



SLC GIRDER INSPECTION REPORT

Bridge File #:	
Date:	
By:	
Page.	4 of 5

	D. REMOVAL FROM THE FORM							
1. STRAN	ID RELEASE SE	QUENCE						
As per appr	oved sketch							
2. CLEAN	I UP							
Fin removal								
Minor patch	ing							
3. GIRDE	3. GIRDER							
Length								
Width								
Depth								
Skew								
Sweep								
	24 hours							
Camber	7 days							
Carrisor	14 days							
	shipping							
Ends								
Bearing area	a smooth & level							
Interior units	s (cavities							
over 10 mm	repaired)							
Exterior unit	S							
(all cavities	repaired)							
Honey-	In bearing area							
comb	At other locations							

E. CURING

1. STEAMING

• Steam curing for four days with 95% - 100% relative humidity and 40° C to 50° C temperature.

Temperature			
Relative Humidity			
Date unit in			
Date unit out			



Bridge File #:	
Date:	
By:	
Page:	5 of 5

-			Page:	5 of 5			
F. FINISHES							
1. SEALER							
Туре							
Application							
2. GIRDER FINISHES							
Тор							
Bottom							
Sides							
G. FINAL 1. SANDBLASTING							
Diaphragms							
Ends							
2. ANCHOR BOLTS							
Bolt clean							
Nuts free to spin							
3. STORAGE							
Safe			1				
Blocking							



Bridge File #:	
Date:	
By:	
Page:	1 of 5

GIRDER SERIAL NO.			
FAB. MARK NO.			
GIRDER TYPE			
CAST DATE			

A. MATERIAL

1	D		NEC	DC	'INI	2 27	[FFI
		СП	VF.	ıĸı	. 1 171 (7 .7 .	

Tack welding of reinforcing steel is not allowed.

1a. REINFORCING STEEL (WWF)

Grade			
Size			
Bends			
% Elongation			
General condition of welds			
Cleanliness			

1b. REINFORCING STEEL (BLACK, MMFX)

Grade			
Size			
Bends			
Cleanliness			

2. STRAND

• Only low relaxation strand allowed.

Condition, cleanliness			
E (Same as stressing calcs)			

3. SHOE PLATE

Size			
Flatness			
Galvanizing			
Weld quality (studs, bars)			

4. POST TENSIONING DUCT

• Check condition, any damage or hole in the duct not acceptable.

Size, thickness			

5. INSERTS

Size			
Galvanizing			



Bridge File #:	
Date:	
Ву:	
Page:	2 of 5

B. FORM SET-UP

- Prior to form set-up, approved shop drawings, stressing calculations and mix design on hand.
- Forms clean, straight with mortar tight joints and sprayed with a form release agent.
- Serial number, loading, year of manufacture and fabricator's name cast into the girder.

1. FORM

Length (correction for shrinkage)		
Width			
Depth			
Skew			
Level			
Sweep			
Diaphragm plates held in place			
Shoe plate held in place			
Bulkheads - braced			

2. STRESSING

- Observe stressing operations, stressing records are maintained by plant's quality control personnel.
- Strand splices inside the member are not allowed.
- Elongation and gauge pressure must be within 5% (combined) of that specified in the approved stressing calcs.
- Check length and sheathing for un-bonded strands.
- Strand are recessed 15 mm inside the girder.

Strand pattern			
Location of deflection points			
Number of debonded strands			
Length of debonded strands			
Elongation			
Gauge pressure			

3. REBAR

Chairs shall be plastic.

Griding Gridin be plac			
Lap			
Cover			
Projection			

4. BLOCKOUT

Dimensions			



Bridge File #:	
Date:	
Ву:	
Page:	3 of 5

B. FORM SET-UP (Continued)

5	n	11	C1	re
ລ.	ப	u	L.	

- Ducts have smooth alignment without sharp kinks or bends.
- Ducts shall be free of grease, oil and any contaminants.
- Ducts are securely tied to restrict horizontal and vertical movement.

 Grout vent tubes are placed a 			arit.	
Location				
6. LIFTING DEVICE				
Location				
Pockets				
7. DIAPHRAGMS				
Location of diaphragms				
Hole location				
8. INSERTS				
Location				
1. CONCRETE		C. CASTING	ì	
Unit weight				
Air				
Slump				
Temperature				
Release strength				
28 days strength	<u> </u>			
2. PLACING				
Drop				
Vibration				
3. FINISH				
Girder top				
4. INITIAL CURING				
After 4 hours of final concrete				
Curing temperature				



/anchorage area

Major honeycomb

Honeycomb Bearing or

/Spalls

NU GIRDER INSPECTION REPORT

Bridge File #:	
Date:	
Ву:	
Page:	4 of 5

D. REMOVAL FROM THE FORM										
1. STRAN	1. STRAND RELEASE SEQUENCE									
As per app	proved sketch									
2. CLEAN	N UP									
Fin remova	al									
Clean up o	of projecting bar									
Minor patc										
(before ste	eam curing)									
3. GIRDE	<u>R</u>									
Length										
Width										
Depth										
Skew										
Sweep										
	24 hours									
Camber	7 days									
Carriber	14 days									

shipping

Ends

Bearing areas smooth & level

Interior units (cavities
over 10 mm repaired)

Exterior units (all cavities
repaired Class 2/3 finish)

Bearing Area

Girder Anchorage area
Cracks Outside bearing

 Major honeycombs/spalls are described as honeycomb/spalls that are more than 30 mm or more than 0.1 m² in area.



Bridge File #:	
Date:	
Ву:	
Page:	5 of 5

E. CURING

1	ı	S	ΓF	Δ	M	IN	J	G

 Steam 	curing for fo	our days with	า 95% -	100% relative hu	umidity and	40° C	to 50°	C temperature.
---------------------------	---------------	---------------	---------	------------------	-------------	-------	--------	----------------

Temperature			
Relative Humidity			
Date unit in			
Date unit out			

F. FINISHES

1. SEALER

Туре			
Application			

2. GIRDER FINISHES

Тор			
Bottom			
Sides			

G. FINAL

1. SANDBLASTING

Diaphragms			
Blockouts			
Ends			

2. STORAGE

Safe			
Blocking			



Bridge File #:	5213
Date:	1-Apr-13
Ву:	Insp. Name.
Page:	1 of 5

GIRDER SERIAL NO.	889	890	891	892	
FAB. MARK NO.	888-06-01	888-06-01	888-06-01B	888-06-01B	
GIRDER TYPE	NU	NU	NU	NU	
CAST DATE	1-Oct-12	2-Oct-12	3-Oct-12	5-Oct-12	

A. MATERIAL

1. REINFORCING STEEL

• Tack welding of reinforcing steel is not allowed.

1a. REINFORCING STEEL (WWF)

Grade	480	480	480	480	
Size	MD 45, 65, 90, 103				
Bends	60 °, 80 ° OK	60 ∮, 80 ∮ OK	60 ¢, 80 ¢ OK	60 ∮, 80 ∮ OK	
% Elongation in 8"	2.5,3.5,4.0,4.8	2.5,3.5,4.0,4.8	2.5,3.5,4.0,4.8	2.5,3.5,4.0,4.8	
General condition of welds	ok	ok	ok	ok	
Cleanliness	ok	ok	ok	ok	

1b REINFORCING STEEL (BLACK, MMFX)

Grade	400W, 100	400W, 100	400W, 100	400W, 100	
Size	10 m , 15 m				
Bends	OK	OK	OK	OK	
Cleanliness	OK	OK	OK	OK	

2. STRAND

Only low relaxation strand allowed.

Condition, cleanliness	OK	OK	OK	OK	
E (Same as stressing calcs)	Yes	Yes	Yes	Yes	

3. SHOE PLATE

Size (mm x mm)	1186 x1010	1186 x1010	1186 x1010	1186 x1010	
Flatness	OK	OK	OK	OK	
Galvanizing	OK	OK	OK	OK	
Weld quality (studs, bars)	OK	OK	OK	OK	

4. POST TENSIONING DUCT

• Check condition, any damage or hole in the duct not acceptable.

Size, thickness	N/A	N/A	N/A	N/A	

5. INSERTS

Size	3/4" - 1"	3/4" - 1"	3/4" - 1"	3/4" - 1"	
Galvanizing	OK	OK	OK	OK	



Bridge File #:	5213
Date:	1-Apr-13
By:	Insp. Name.
Page:	2 of 5

B. FORM SET-UP

- Prior to form set-up, approved shop drawings, stressing calculations and mix design on hand.
- Forms clean, straight with mortar tight joints and sprayed with a form release agent.
- Serial number, loading, year of manufacture and fabricator's name cast into the girder.

1. FORM

Length (correct for shrinkage)	40632	40632	40632	40632	
Width (mm)	1260,185,1010	1260,185,1010	1260,185,1010	1260,185,1010	
Depth (mm)	2000	2000	2000	2000	
Skew	20° LHF	20° LHF	20° LHF	20° LHF	
Level	± 3 mm	± 3 mm	± 3 mm	± 3 mm	
Sweep	± 6 mm	±6 mm	±6 mm	± 6 mm	
Diaphragm plates held in place	N/A	N/A	N/A	N/A	
Shoe plate held in place	Yes	Yes	Yes	Yes	
Bulkheads - braced- angle clips	Yes	Yes	Yes	Yes	

2. STRESSING

- Observe stressing operations, stressing records are maintained by plant's quality control personnel.
- · Strand splices inside the member are not allowed.
- Elongation and gauge pressure must be within 5% (combined) of that specified in the approved stressing calcs.
- · Check length and sheathing for un-bonded strands.
- Strand are recessed 15 mm inside the girder.

Strand pattern	60 -OK	60 -OK	60 -OK	60 -OK	
Location of deflection points	20-80mm out OK	20-80mm out OK	20-80mm out OK	20-80mm out OK	
Number of debonded strands	None	None	None	None	
Length of debonded strands	N/A	N/A	N/A	N/A	
Elongation (mm)	585 -615	580-620	585-620	585-620	
Gauge pressure (Psi)	4850 - 4600	4850 - 4600	4850 - 4600	4850 - 4600	

3. REBAR

· Chairs shall be plastic.

Lap	10M bar	500	500	500	500	
Cover (m	nm)	25-35	25-35	25-35	25-35	
Projectio	on (mm)	200 - 210	200 - 210	200 - 210	200 - 210	

4. BLOCKOUT (for field cutting of top strands)

Dimensions	100x200x60	100x200x60	100x200x60	100x200x60	
------------	------------	------------	------------	------------	--



Bridge File #:	5213
Date:	1-Apr-13
By:	Insp. Name.
Page:	3 of 5

B. FORM SET-UP (Continued)

5. DUCTS

- Ducts have smooth alignment without sharp kinks or bends.
- Ducts shall be free of grease, oil and any contaminants.
- Ducts are securely tied to restrict horizontal and vertical movement.
- Grout vent tubes are placed at high and low ends.

Location	N/A	N/A	N/A	N/A	

6. LIFTING DEVICE

	2000,1770,	2000,1770,	2000,1770,	2000,1770,	
Location ± 20 mm	2230,2000	2230,2000	2230,2000	2230,2000	
Pockets	N/A				

7. DIAPHRAGMS

Location of diaphragms	OK	OK	OK	OK	
Hole location	OK	OK	OK	OK	

8. INSERTS

Location OK OK OK	Location	ОК	ОК		OK	
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C. CASTING

1. CONCRETE

Unit weight (kg/m³)	2285	2265	2260	2276	
Air (%)	5.5	5.8	6.4	6.4	
Slump (mm)	260	265	260	250	
Temperature (°C)	20.5	20.5	23.3	23	
Release strength (MPa)	67.5	46	45.8	46.9	
28 days strength (MPa)	79.2	81.6	79.6	82.8	

2. PLACING

Drop	OK	OK	OK	OK	
Vibration	OK	OK	OK	OK	

3. FINISH

Girder top	OK	OK	OK	OK	

4. INITIAL CURING

After 4 hours of final concrete	Yes	Yes	Yes	Yes	
Curing temperature (° C)	36-53	39-58	38-51	N/A	



Bridge File #:	5213
Date:	1-Apr-13
By:	Insp. Name.
Page:	4 of 5

D. REMOVAL FROM THE FORM

1. STRAND RELEASE SEQUENCE

As per approved sketch	OK	OK	OK	OK	
------------------------	----	----	----	----	--

2. CLEAN UP

Fin removal	OK	OK	OK	OK	
Clean up of projecting bar	OK	OK	OK	OK	
Minor patching	ОК	ОК	ОК	ОК	
(before steam curing)	OK	OK .	OK .	OK	

3. GIRDER

Length	(m)	40.590	40.590	40.580	40.585	
Width	(mm)	1262,187,1011	1262,487,1012	1263,187,1012	1263,187,1012	
Depth	(mm)	2005	2005	2005	2005	
Skew	(°)	20 LHF	20 LHF	20 LHF	20 LHF	
Sweep		20	20	20	20	
	24 hours	+59	+59	+61	+55	
Camber	7 days	N/A	N/A	N/A	N/A	
(mm)	14 days	N/A	N/A	N/A	N/A	
	shipping	+65	+71	+66	+63	
Ends		OK	OK	OK	OK	
Bearing area	as smooth & level	Yes	Yes	Yes	Yes	
Interior units over 10 mm		Yes	Yes	Yes	Yes	
	s (all cavities					
repaired Cla	ss 2/3 finish)	Yes	Yes	Yes	Yes	
	Bearing Area	None	None	None	None	
Girder	Anchorage area	0.15 mm WIDE	0.15 mm WIDE	0.15 mm WIDE	0.15 mm WIDE	
Cracks	Outside bearing /anchorage area	None	None	None	None	
Honeycomb	Bearing or	None	None	None	None	
/Spalls	Major honeycomb	None	None	None	None	

[•] Major honeycombs/spalls are described as honeycomb/spalls that are more than 30 mm or more than 0.1 m² in area.



Bridge File #:	5213
Date:	1-Apr-13
Ву:	Insp. Name.
Page:	5 of 5

E. CURING

1. STEAMING

• Steam curing for four days with 95% - 100% relative humidity and 40° C to 50° C temperature.

Temperature (° C)	55-57	55-57	55-57	55-57	
Relative Humidity (%)	99	99	99	99	
Date unit in	22-Oct-12	23-Oct-13	24-Oct-13	25-Oct-13	
Date unit out	25-Oct-13	29-Oct-13	29-Oct-13	29-Oct-13	

F. FINISHES

1. SEALER

Туре	None	None	None	None	
Application	N/A	N/A	N/A	N/A	

2. GIRDER FINISHES

	(Nail Rake 6mm x					
Тор	6mm x 15mm)	OK	OK	OK	OK	
Bottom	Class 1	N/A	N/A	N/A	N/A	
	Class 1 and Class					
Sides	3 Ext.	OK	OK	OK	OK	

G. FINAL

1. SANDBLASTING

Diaphragms	OK	OK	OK	OK	
Blockouts	N/A	N/A	N/A	N/A	
Ends	OK	OK	OK	OK	

2. STORAGE

Safe		OK	OK	OK	OK	
Blocking	concrete block, plywood top	ОК	ОК	ОК	OK	



CSP Inspection Report

Bridge File	
Date:	
Ву:	
Page:	

Project:	Supplier:
----------	-----------

MEASUREMENTS

	Required		Measured	
Locations				
Corrugation				
Thickness				
Diameter				
Span*				
Rise*				
Corner Radius*				
Length				

^{*} Span, Rise and Corner Radius are for pipe arch

VISUAL INSPECTION

Recorrugated Ends:	(Lockseam in the corrugated ends does not contain any visible cracks in the base metal)	
Profiles:	(For a round pipe, major axis dia. shall not exceed minor axis dia. by more than 2%)	
Lockseam:	(No. of seams checked)	
Termination of Lockseam:	(Ends deburred, welded with 75 mm long fillet welds and painted with zinc rich paint)	
Galvanizing:	(Quality, thickness 1.7 mils each side for single galvanizing)	
Type, No. of Couplers 8	Hardware:	
Sloped Ends:		
Elbows:		
Comments:		



SPCSP Inspection Report

Bridge File #:	
Date:	
Ву:	
Page:	

MENTS
/

Pile: 5 7 1 2 3 4 6 Plate Size: (N) Required number Plate Thickness: Measured (mm) Corrugation Pitch (mm) Profile: Depth (mm) Shop Radii: (mm) Test Chord (=0.75 x chord length) Required (mm) Rise: Measured @ centre Measured @ end Plate Length: (mm)

VISUAL INSPECTION

Galvanizing:	(Quality, thickness 1.7 mils each side for single galvanizing)	
Bolt Holes:	(Holes round, deburred & centre of hole on centre of corrugation)	
Stacking of Plates:	(Stacking of plates nesting properly with no gaps between plates	
Sloped Ends:		
Hardware:		
Comments:		



SPCSP Inspection Report

Bridge F	12345		
Date:	date		
By:	inspe	ctor name	
Page:		X of X	

Project: Hwy XX:xx	Supplier:	XYZ Industries
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MEASUREMENTS

Pile:			1	2	3	4	5	6	7
Plate Size:	(N)		5	5	5	5	5	5	various
Plate	Required nu	ımber	20	20	20	20	20	20	12
Thickness:	Measured ((mm)	3	3	3	3	3	3	3
Corrugation	Pitch (mm)		152	151	152	151	151	151	151
Profile:	Depth (mm)		51	51	51	51	51	51	51
Shop Radii:	(mm)		1981	1981	1981	1981	1981	1981	1981
Test Chord	(=0.75 x cho	ord length)	2438	2438	2438	2438	2438	2438	1828
	Required (m	nm)	420	420	420	420	420	420	224
Rise:	Measured	@ centre	425	425	426	425	425	426	228
	Measured	@ end	426	426	426	425	425	425	226
Plate Length:	(mm)		1220	1219	1219	1219	1219	1219	1222

VISUAL INSPECTION

Galvanizing:	(Quality, thickness 1.7 mils each side for single galvanizing)	comment required, touchups, damage?
Bolt Holes:	(Holes round, deburred & centre of hole on centre of corrugation, hole size)	comment required
Stacking of Plates:	(Stacking of plates nesting properly with no gaps between plates	comment per Bridge Specification
Sloped Ends:	2:1 step Bevel or other	
Hardware: list all c	components for shipping	
Comments: Inspect	tion noted conformance, order ready to ship after	contacting ABC Consultant



CULVERT INSTALLATION Inspection Record

Project:	Contract #:			E	Bridge File		
Contractor:			_				
Project Sponsor:				Consultant	t Inspector:		
STRUCTURAL	DESIGNATION		SOURCE		TESTED BY		APPROVED BY
FILL	REQ	UIRED					
Granular Fill	Des 2 - Cla	ss 20 or					
Crush	Des 2 - Cla	ıss 40					
Pit run	Des 6 - Cla	ıss 80					
Clay Fill							
INSTALLATI	ON	INSPEC	CTED BY	DA	ΓΕ		COMMENTS
Culvert Settings							
Excavation							
Bedding							
Assembly							
Backfill							
Haunch Area							
Sidewall Area							
COMPACTION	1						
EQUIPMENT	Γ						
Lift Thicknes	s		mm	Passes per Lift			
CONCRETE END TRE	ATMENT	INSPEC	CTED BY	DA	ΓΕ		COMMENTS
Rebar and Formwork							
Finished Work							
Concrete Compressive	Strength						
Riprap							

Please return form to Project Sponsor

Special Features

Final Trimming/Cleanup



CULVERT INSTALLATION

Inspection Record

Project:	Hwy XX:xx	Contract #:	CON00123456	Bridge File #:	12345	
Contractor:						
Proiect Sponsor:			Consultant Inspe	ector:		

STRUCTURAL FILL	DESIGNATION REQUIRED	SOURCE	TESTED BY	APPROVED BY
Granular Fill	Des 2 - Class 20 or	Borrow, or pit	Geotech Sub -cons	Prime Consultant
Crush	Des 2 - Class 40	Borrow, or pit	Geotech Sub -cons	Prime Consultant
Pit run	Des 6 - Class 80	Borrow, or pit	Geotech Sub -cons	Prime Consultant
Clay Fill		Borrow, or pit	Geotech Sub -cons	Prime Consultant

INSTALLATION	INSPECTED BY	DATE	COMMENTS
Culvert Settings	inspector	date	camber and inverts per design,
Excavation	inspector	date	firm, competent, no additional
Bedding	inspector	date	per design, no issues
Assembly	inspector	date	minor issues with hole alignment
Backfill	inspector	date	oversize cobbles removed
Haunch Area	inspector	date	hand tamped in corrugation
Sidewall Area	inspector	date	no issues

COMPACTION									
EQUIPMENT Sheep foot roller, jumping jack, hand plate tamper									
Lift Thickness	150	mm	Passes per Lift	6					

CONCRETE END TREATMENT	INSPECTED BY	DATE	COMMENTS
Rebar and Formwork	inspector	date	min cover provided, per std. dwgs.
Finished Work	inspector	date	finished and covered for cure
Concrete Compressive Strength	inspector	date	# cylinders & date, check lab
Riprap	inspector	date	per spec, gradation good, cloth in
Special Features	inspector	date	sideslope handrail in place
Final Trimming/Cleanup	inspector	date	erosion control still in place.

Please return form to Project Sponsor



CULVERT BARREL MEASUREMENTS

Project:	Contract #:			Bri	Bridge File #:					
From:			•	To:			•			
Contractor:										
Project Sponsor:		Consultant's Inspector:								
	Design Dimension Maxi			Maxir	mum Dim	ension	Minim	num Dimer	nsion	
Design Dimensions			(mm)		(mm)			(mm)		
& Allowable Limits	Rise									
	Span									
	Asse	embly	Back	fill at	Back	cfill to	Backfil	l 0.3 m	Gra	ade
Actual	Com	plete	Midpoint of Rise		Top of	Culvert	Above Top	of Culvert	Complete	
Measurements	Rise	Span	Rise	Span	Rise	Span	Rise	Span	Rise	Span
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
Upstream End										
m from U/S End										
m from U/S End										
Centreline of Road									1	

NOTE: Measurements to be taken top of corrugation to top of corrugation.

Location of measurements should be marked (eg. Spray paint) for future reference.

Please return form to Project Sponsor.

m from D/S End

Downstream End
Date Measured
Measured By



CULVERT BARREL MEASUREMENTS

Project:	t: Highway XX:xx		Contract #:	CON00123456	Bridge File #: BF 12345		
From:	Required if bridge file is in limits of a combined road /bridge project			To: Required if bridge file is in limits of a combined road /bridge project			
Contracto	or:	XYZ Contractor	_				
Project S	ponsor:		Cons	sultant's Inspector:			

		Design Dimension	Maximum Dimension	Minimum Dimension
Design Dimensions		(mm)	(mm)	(mm)
& Allowable Limits	Rise	3990	4070	3910
	Span	3990	4070	3910

	Asse	embly	Back	fill at	Back	cfill to	Backfi	ll 0.3 m	Gra	ade	
Actual	Com	plete	Midpoin	t of Rise	Top of	Culvert	Above Top	of Culvert	Com	plete	
Measurements	Rise	Span	Rise	Span	Rise	Span	Rise	Span	Rise	Span	
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
Upstream End			3994	4004	3999	4000	3977	3987	3977	3990	
10 m from U/S End	3998	3995	3984	4014	3994	4007	3988	4014	3990	4010	
20 m from U/S End	4015	3975	3992	4007	3998	4002	3976	4031	3980	4020	
Centreline of Road	4000	4000	3987	4010	4001	3995	3961	4054	3960	4030	
10 m from D/S End	4005	3995	3985	3997	3992	3995	3967	4018	3970	4020	
20 m from D/S End	4020	3975	3989	4001	3998	3991	3975	4022	3970	4020	
Downstream End			3998	3992	3998	3992	3956	4005	3960	4000	
Date Measured	01-M	01-May-13		15-May-13		16-May-13		17-May-13		19-May-13	
Measured By	na	me	na	me	na	me	name		name		

NOTE: Measurements to be taken top of corrugation to top of corrugation.

Location of measurements should be marked (eg. Spray paint) for future reference.

Please return form to Project Sponsor.

Albertan

Concrete Test Results

Trans	portation				Contract #:					dge File #: Hwy/Sec.:			
Date Tested:					e Supplier:					Stream:			
Weather:				_	t Location:				Near	est Town:			
Temperature: Hi	gh:	Low:		-					С	onsultant:			
Tested By	Name	(Certification	Number	Certified	Expired	Test Cyli	nders Set	Mould Siz	ze (mm)	Placing Me	ethod / S	ampling At
☐ Contractor			CSA					3-28 day	□100 x 20				
☐ Indep. Lab.			ACI					k 3-28 day	□150 x 30	00	Curing Fac	cilities / In	itial Temp.
Consultant							1, 3, 7	& 3-28 day					
Concre	ete Test	Class	Strength	1 Set	of Strength	n Test Repr	esent	Haul Time	Slump	Air Cont.	Unit Wt.	Air (°C)	Conc (°C)
Specification	Requirements												
		(Cylinder	Delivery	Load					Air	Unit	Temp	erature
Pour L	ocation	Ide	entification	Ticket	Amount		Time		Slump	Content	Weight	Air	Concrete
		I	Labels*	Number	(m ³)	Batched	Tested	Off-Load	(mm)	(%)	(kg/m ³)	(°C)	(°C)
Sketch of Test C	Cylinder Location	 n:		f ==			(Comments:					
Deck Section #'s	-			1									
1 2	2 3	4	5	8A									
				*									
Abut #1 Pier	l r #1	Pier #2	Abut	#2									
Revised December 20	13	* See	Concrete Cyl	inder Codin	g Sheet for	Suggested	Cylinder Id	dentification	Labels(s).		A ⁻	ppendix C.12	Page 1/2



Concrete Testing at Site

Transportation

Suggested Concrete Test Cylinder Coding

<u>Abutment</u>	<u></u>	<u>Piers</u>		SPCSP C	<u>ulverts</u>
A1S	Abutment #1 Seat	P1DP	Pier #1 Drilled Pile	SPF	Corrugated Metal Pipe Floor Slab
A1BW	Abutment #1 Backwall	P1PP	Pier #1 Pipe Pile	SPUC	Corrugated Metal Pipe U/S Collar
A1LW	Abutment #1 Left Wingwall	P1F	Pier #1 Footing	SPDC	Corrugated Metal Pipe D/S Collar
A1RW	Abutment #1 Right Wingwall	P1S	Pier #1 Shaft	SPUA	Corrugated Metal Pipe U/S Apron
A1WZ	Abutment #1 Both Wingwalls	P1LS	Pier #1 Lower Shaft	SPDA	Corrugated Metal Pipe D/S Apron
A1B&W	Abutment #1 Backwall & Wingwall	P1US	Pier #1 Upper Shaft	SPUCW	Corrugated Metal Pipe U/S Cut-off Wall
A1GB	Abutment #1 Grade Beam	P1PC	Pier #1 Pier Cap	SPDCW	Corrugated Metal Pipe D/S Cut-off Wall
A1RS	Abutment #1 Roof Slab	P1C	Pier #1 Column	SPUW	Corrugated Metal Pipe U/S Wingwall
A1AS	Abutment #1 Approach Slab			SPDW	Corrugated Metal Pipe D/S Wingwall
A1MC	Abutment #1 Median Curb	Precast	<u>Units</u>	SPUF	Corrugated Metal Pipe U/S Footing
A1RD	Abutment #1 Right Drain	S1GK	Span #1 Girder Keyways	SPDF	Corrugated Metal Pipe D/S Footing
A1LD	Abutment #1 Left Drain	A1BK	Abutment #1 Blockout		
A1SP	Abutment #1 Slope Protection	Pier #1	Pier #1 Diaphragm Beam	Arch Culv	<u>rert</u>
A1LS	Abutment #1 Left Sidewalk	S1IDB	Span #1 Intermediate Diaphragm Beam	ACLF	Arch Culvert Left Footing
A1RS	Abutment #1 Right Sidewalk			ACRF	Arch Culvert Right Footing
		Box Cul	<u>verts</u>	ACB	Arch Culvert Barrel
<u>Decks</u>		BCF	Box Culvert Floor Slab	ACFS	Arch Culvert Floor Slab
DS1	Deck Section #1*	BCW	Box Culvert Walls	ACUC	Arch Culvert U/S Collar
DS1RC	Deck Section #1 Right Curb	BCRS	Box Culvert Roof Slab	ACDC	Arch Culvert D/S Collar
DS1LC	Deck Section #1 Left Curb	BCUA	Box Culvert U/S Apron	ACUA	Arch Culvert U/S Apron
DS1RP	Deck Section #1 Right Parapet	BCDA	Box Culvert D/S Apron	ACDA	Arch Culvert D/S Apron
DS1LP	Deck Section #1 Left Parapet	BCUW	Box Culvert U/S Wingwalls	ACUCW	Arch Culvert U/S Cut-off Wall
DS1MC	Deck Section #1 Median Curb	BCDW	Box Culvert D/S Wingwalls	ACDCW	Arch Culvert D/S Cut-off Wall
DS1RS	Deck Section #1 Right Sidewalk	BCUF	Box Culvert U/S Wingwall Footing	ACUW	Arch Culvert U/S Wingwall
DS1LS	Deck Section #1 Left Sidewalk	BCDF	Box Culvert D/S Wingwall Footing	ACDW	Arch Culvert D/S Wingwall
*Deck Sec	tion #'s:	1		ACUF	Arch Culvert U/S Footing
1	2 3 4 5			ACDF	Arch Culvert D/S Footing
		AND.			
		1.			
Abut #1		out # 2			
Revised Decem	aber 2013 Concrete C	Cylinder Co	ding Sheet for Suggested Cylinder Identification	on Labels.	Appendix C.12 Page 2/2



Concrete Test Results

Transport Date Tested: 6/12/2012 Weather: Light Bree Temperature: High: 20 Tested By Contractor	eze, Cloud °C Name	Low:	ertification CSA	Concret	e Supplier:	ABC Contr XYZ Concr Concrete 1 Expired 1-Jul-14	Test Cyl	inders Set 3-28 day	Near C Mould Siz ✓100 x 20	est Town: onsultant: ze (mm)	555:02 over Hwy 5 Some Tow AAA Cons Placing Me Pump True	ulting ethod / S	Sampling At Hose End
✓ Indep. Lab. Joe	e Tester		ACI					& 3-28 day & 3-28 day	□ 150 x 30	0	Curing Fac		nitial Temp. 17 - 23°C
Concrete Tes Specification Require		Class	Strength 45 MPa		of Strength	Test Repr		Haul Time	Slump 120 ± 30	Air Cont.	Unit Wt.	Air (°C) 5 to 25	Conc (°C)
Pour Location	1	Ider	ylinder ntification abels*	Delivery Ticket Number	Load Amount (m³)	Batched	Time Tested	Off-Load	Slump (mm)	Air Content (%)	Unit Weight (kg/m³)	Temp Air (°C)	Concrete (°C)
Deck pour over Pictor	er #1 er #1 er #1 er #2	DS2-1,2 n/a DS2-1,4 n/a DS4-9, n/a		1 2 3 4 5 6	10 10 10 10 10 10	20:00 20:30 21:00 21:30 22:00 22:30	20:45 21:20 21:40 22:15 22:35 23:10	20:50 21:25 21:50 22:20 22:45 23:15	120 110 125 130 140 125	6.5 6.8 7.2 5.6 5.8 6.7	2400 2395 2405 2395 2400 2400	15 15 14 14 13	16 16 14 15 13
Deck pour over Pi	er #2		,12,13,14	7 8	10 10	23:00	23:40 00:05	23:45	130 130	7.0	2405 2402	13 12	16 15
Sketch of Test Cylinder Deck Section #'s:	r Location	:		1			1	Comments:	Ticket # 4 8 superplastic				er added

* See Concrete Cylinder Coding Sheet for Suggested Cylinder Identification Labels(s).

Abut #1

Pier #1

Pier #2

Abut #2



Concrete Testing at Site

Suggested Concrete Test Cylinder Coding

A1GB Abutment #1 Grade Beam P1PC Pier #1 Pier Cap SPDCW Corrugated Metal Pipe D/S Cut-off W SPUW Corrugated Metal Pipe U/S Wingwall	Abutments	<u> </u>	<u>Piers</u>		SPCSP C	ulverts
A1LW Abutment #1 Left Wingwall P1F Pier #1 Footing SPDC Corrugated Metal Pipe D/S Collar A1RW Abutment #1 Right Wingwall P1S Pier #1 Shaft SPUA Corrugated Metal Pipe D/S Apron A1WZ Abutment #1 Both Wingwalls P1LS Pier #1 Lower Shaft SPUA Corrugated Metal Pipe D/S Apron A1WZ Abutment #1 Both Wingwalls P1LS Pier #1 Lower Shaft SPDA Corrugated Metal Pipe D/S Apron A1B&W Abutment #1 Backwall & Wingwall P1US Pier #1 Upper Shaft SPDC Corrugated Metal Pipe D/S Apron A1B&W Abutment #1 Grade Beam P1PC Pier #1 Pier Cap SPDCW Corrugated Metal Pipe D/S Cut-off W A1RS Abutment #1 Approach Slab P1C Pier #1 Column SPDW Corrugated Metal Pipe D/S Wingwall A1AS Abutment #1 Approach Slab SPDW Corrugated Metal Pipe D/S Wingwall A1RD Abutment #1 Right Drain S1GK Span #1 Girder Keyways SPDF Corrugated Metal Pipe D/S Wingwall SPDW Corrugated Metal Pipe D/S Wingwall SPDW Corrugated Metal Pipe D/S Footing SPDF Corrugated Metal Pipe D/S Footing SPDF Corrugated Metal Pipe D/S Footing SPDF Corrugated Metal Pipe D/S Wingwall A1RD Abutment #1 Left Drain A1BK Abutment #1 Blockout A1SP Abutment #1 Slope Protection A1BK Abutment #1 Blockout Pier #1 Pier #1 Diaphragm Beam A1BC Abutment #1 Right Sidewalk S1IDB Span #1 Intermediate Diaphragm Beam A1BC ACF Arch Culvert Left Footing ACR Arch Culvert Barrel BCC Box Culvert Walls ACR Arch Culvert Barrel BCC Arch Culvert Barrel BCC Arch Culvert Barrel BCC Arch Culvert Barrel BCC Arch Culvert U/S Collar BCC BCC Arch Culvert U/S Apron ACD Arch Culvert U/S Apron ACD Arch Culvert U/S Apron ACD Arch Culvert U/S Apron BCC BCC Arch Culvert U/S Apron ACD Arch Culvert U/S Cul-off Wall BCD Box Culvert D/S Wingwalls ACDCW Arch Culvert D/S Wingwall ACDCW Arch Culver	A1S	Abutment #1 Seat	P1DP	Pier #1 Drilled Pile	SPF	Corrugated Metal Pipe Floor Slab
A1RW Abutment #1 Right Wingwall P1S Pier #1 Shaft SPUA Corrugated Metal Pipe U/S Apron A18AW Abutment #1 Both Wingwalls P1US Pier #1 Lower Shaft SPUCW Corrugated Metal Pipe U/S Apron A18AW Abutment #1 Backwall & Wingwall P1US Pier #1 Upper Shaft SPUCW Corrugated Metal Pipe U/S Cut-off W SPUCW Corrugated Metal Pipe U/S Wingwall SPUW Corrugated Metal Pipe U/S Pipe U/S Footing SPUW Corrugated Metal Pipe U/S Wingwall Pipe U/S Wingwall SPUW Corrugated Metal Pipe U/S Wingwall Pipe U/S Apron ACMA Arch Culvert U/S Apron ACMA Arch Culvert U/S Culvert D/S Culvert Pipe D/S Wingwall Pipe U/S Wingwal	A1BW	Abutment #1 Backwall	P1PP	Pier #1 Pipe Pile	SPUC	Corrugated Metal Pipe U/S Collar
A1WZ Abutment #1 Both Wingwalls A1B&W Abutment #1 Backwall & Wingwall A1GB Abutment #1 Grade Beam A1GB Abutment #1 Roof Slab A1AS Abutment #1 Roof Slab A1AS Abutment #1 Roof Slab A1AS Abutment #1 Approach Slab A1MC Abutment #1 Median Curb A1RD Abutment #1 Right Drain A1BW Abutment #1 Slope Protection A1BS Abutment #1 Slope Protection A1BS Abutment #1 Slope Protection A1BS Abutment #1 Right Sidewalk A1BS Abutment #1 Right Sidewalk B2ND Abutment #1 Right Sidewalk A1BS Abutment #1 Right Sidewalk A1BS Abutment #1 Right Sidewalk A1BS Abutment #1 Slope Protection A1BS Abutment #1 Right Sidewalk BCF Box Culverts BCF Box Culvert Floor Slab ACF Arch Culvert Right Footing ACRF Arch Culvert Right	A1LW	Abutment #1 Left Wingwall	P1F	Pier #1 Footing	SPDC	Corrugated Metal Pipe D/S Collar
A1B&W Abutment #1 Backwall & Wingwall A1GB Abutment #1 Grade Beam P1PC Pier #1 Upper Shaft SPUCW Corrugated Metal Pipe U/S Cut-off W A1RS Abutment #1 Roof Slab P1C Pier #1 Pier Cap SPDCW Corrugated Metal Pipe D/S Cut-off W SPUW Corrugated Metal Pipe D/S Cut-off W SPUW Corrugated Metal Pipe D/S Wingwall SPDW Corrugated Metal Pipe D/S Footing A1RD Abutment #1 Right Drain A1BK Abutment #1 Blockout A1SP Abutment #1 Left Drain A1BK Abutment #1 Blockout A1SP Abutment #1 Left Sidewalk S1IDB Span #1 Intermediate Diaphragm Beam ACRF Arch Culvert Left Footing ACRF Arch Culvert Bight Footing ACDC Arch Culvert Bight Footing ACDC Arch Culvert Bight Pooting AC	A1RW	Abutment #1 Right Wingwall	P1S	Pier #1 Shaft	SPUA	Corrugated Metal Pipe U/S Apron
A1GB Abutment #1 Grade Beam A1RS Abutment #1 Roof Slab A1AS Abutment #1 Roof Slab A1AS Abutment #1 Approach Slab A1AS Abutment #1 Approach Slab A1MC Abutment #1 Median Curb A1RD Abutment #1 Left Drain A1LD Abutment #1 Left Drain A1LD Abutment #1 Slope Protection A1RS Abutment #1 Slope Protection A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Biockout A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Biockout A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Biockout A1RS Abutment #1 Biocko	A1WZ	Abutment #1 Both Wingwalls	P1LS	Pier #1 Lower Shaft	SPDA	Corrugated Metal Pipe D/S Apron
A1RS Abutment #1 Roof Slab A1AS Abutment #1 Approach Slab A1MC Abutment #1 Median Curb A1RD Abutment #1 Right Drain A1RD Abutment #1 Left Drain A1RD Abutment #1 Slope Protection A1RD Abutment #1 Right Sidewalk A1RS Abutment #1 Right Right Proteining ACP Arch Culvert D/S Vingwall ACP Ar	A1B&W	Abutment #1 Backwall & Wingwall	P1US	Pier #1 Upper Shaft	SPUCW	Corrugated Metal Pipe U/S Cut-off Wall
A1AS Abutment #1 Approach Slab A1MC Abutment #1 Median Curb A1RD Abutment #1 Right Drain A1LD Abutment #1 Left Drain A1LD Abutment #1 Slope Protection A1LS Abutment #1 Right Sidewalk A1RS Abutment #1 Biockout A2RF Arch Culvert Left Footing ACBR Arch Culvert Bior Slab ACBR Arch Culvert Bior Slab ACBR Arch Culvert D/S Collar ACBR Arch Culvert D/S Apron ACDR Arch Culvert D/S Apron ACDR Arch Culvert D/S Cut-off Wall ACDCW Arch Culvert D/S Cut-off Wall ACDCW Arch Culvert D/S Wingwall ACDCW Arch Culvert D/S Wingwall ACDW Arch Culvert D/S Wingwall ACDF Arch Culvert D/S Wingwall	A1GB	Abutment #1 Grade Beam	P1PC	Pier #1 Pier Cap	SPDCW	Corrugated Metal Pipe D/S Cut-off Wall
A1MC Abutment #1 Median Curb A1RD Abutment #1 Right Drain A1BK Abutment #1 Blockout A1SP Abutment #1 Slope Protection A1RS Abutment #1 Left Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Left Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Blockout A1RS Abutment #1 Blockout A1RS Abutment #1 Deck Section #1 Right Curb A1RS Abutment #1 Deck Section #1 Right Potention A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Biockout A1RS Abutment #1 Blockout A1RS Abutment #1 Deck Section #1 Right Curb BCS Box Culvert Walls ACRF Arch Culvert Left Footing ACRF Arch Culvert Left Footing ACRF Arch Culvert Barrel ACRF Arch Culvert U/S Apron ACUL Arch Culvert U/S Cut-off Wall ACUL Arch Culvert U/S	A1RS	Abutment #1 Roof Slab	P1C	Pier #1 Column	SPUW	Corrugated Metal Pipe U/S Wingwall
A1RD Abutment #1 Right Drain A1BK Abutment #1 Blockout A1SP Abutment #1 Left Drain A1LS Abutment #1 Left Sidewalk A1RS Abutment #1 Left Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Left Sidewalk A1RS Abutment #1 Blockout A1RS Abutment #1 Blockout A1RS Abutment #1 Diaphragm Beam A2CLF Arch Culvert Left Footing ACRF Arch Culvert Barrel ACRF Arch Culvert D/S Apron ACRF Arch Culvert D/S Collar ACRF Arch Culvert D/S Collar ACRF Arch Culvert D/S Wingwall ACDCW Arch Culvert D/S Wingwall	A1AS	Abutment #1 Approach Slab			SPDW	Corrugated Metal Pipe D/S Wingwall
A1LD Abutment #1 Left Drain A1SP Abutment #1 Slope Protection A1LS Abutment #1 Slope Protection A1RS Abutment #1 Left Sidewalk A1RS Abutment #1 Right Sidewalk BCF Box Culvert Floor Slab BCF Box Culvert Walls BCRS Box Culvert Roof Slab BCRS Box Culvert U/S Apron BCUA Box Culvert U/S Apron BCUA Box Culvert U/S Apron BCUA Box Culvert D/S Apron BCILC Deck Section #1 Right Parapet BCDA Box Culvert D/S Apron BCDA Box Culvert U/S Wingwalls BCDA Box Culvert U/S Wingwalls BCDA Box Culvert U/S Wingwalls BCDA Box Culvert D/S Wingwalls BCDA Box Culvert D/S Wingwall Footing BCDA Box Culvert D/S Wingwall ACUW Arch Culvert D/S Wingwall BCDA Box Culvert D/S Wingwall Footing BCDA Box Culvert D/S Wingwall BCDF Box Culvert D/S Wingwall Footing ACUW Arch Culvert D/S Wingwall ACUF Arch Culvert D/S Wingwall	A1MC	Abutment #1 Median Curb	Precast	<u>Units</u>	SPUF	Corrugated Metal Pipe U/S Footing
A1SP Abutment #1 Slope Protection A1LS Abutment #1 Left Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Left Sidewalk ACLF Arch Culvert Left Footing ACRF Arch Culvert Left Footing ACRF Arch Culvert Barch ACLF Arch Culvert U/S Collar ACRF Arch Culvert Barrel ACB Arch Culvert U/S Collar ACDC Arch Culvert U/S Apron ACDA Arch Culvert D/S Apron ACDA Arch Culvert D/S Cut-off Wall ACDCW Arch Culvert D/S Cut-off Wall ACDCW Arch Culvert D/S Cut-off Wall ACDCW Arch Culvert D/S Wingwall	A1RD	Abutment #1 Right Drain	S1GK	Span #1 Girder Keyways	SPDF	Corrugated Metal Pipe D/S Footing
A1LS Abutment #1 Left Sidewalk A1RS Abutment #1 Right Sidewalk A1RS Abutment #1 Left Sidewalk A1RS Ach Culvert Left Footing ACLF Arch Culvert Left Footing ACRF Arch Culvert Right Footing ACRF Arch Culvert Barrel ACLF Arch Culvert Left Footing ACRF Arch Culvert Barrel ACLF Arch Culvert Left Footing ACL	A1LD	Abutment #1 Left Drain	A1BK	Abutment #1 Blockout		
ACRF Arch Culvert Right Footing Box Culverts BCF Box Culvert Floor Slab BCF Box Culvert Walls BCF Box Culvert Walls BCF Box Culvert Walls ACCRF Arch Culvert Barrel ACCRF Arch Culvert Floor Slab ACCRF Arch Culvert Floor Slab ACCRF Arch Culvert Floor Slab ACCRF Arch Culvert U/S Collar ACCRF Arch Culvert U/S Collar ACCRF Arch Culvert U/S Collar ACCRF Arch Culvert D/S Collar ACCRF Arch Culvert D/S Apron ACCRF Arch Culvert D/S Apron ACCRF Arch Culvert U/S Cut-off Wall ACCRF Arch Culvert D/S Wingwall ACCRF Arch Culvert D/S Wingwa	A1SP	Abutment #1 Slope Protection	Pier #1	Pier #1 Diaphragm Beam	Arch Culv	<u>vert</u>
Box CulvertsDecksBCFBox Culvert Floor SlabACFSArch Culvert Floor SlabDS1Deck Section #1*BCWBox Culvert WallsACUCArch Culvert U/S CollarDS1RCDeck Section #1 Right CurbBCRSBox Culvert Roof SlabACDCArch Culvert D/S CollarDS1LCDeck Section #1 Left CurbBCUABox Culvert U/S ApronACUAArch Culvert U/S ApronDS1RPDeck Section #1 Right ParapetBCDABox Culvert D/S ApronACDAArch Culvert D/S ApronDS1LPDeck Section #1 Left ParapetBCUWBox Culvert U/S WingwallsACUCWArch Culvert U/S Cut-off WallDS1MCDeck Section #1 Median CurbBCDWBox Culvert D/S Wingwall FootingACDCWArch Culvert D/S Cut-off WallDS1RSDeck Section #1 Right SidewalkBCUFBox Culvert U/S Wingwall FootingACUWArch Culvert U/S WingwallDS1LSDeck Section #1 Left SidewalkBCDFBox Culvert D/S Wingwall FootingACDWArch Culvert D/S Wingwall*Deck Section #5:ACUFArch Culvert U/S Footing	A1LS	Abutment #1 Left Sidewalk	S1IDB	Span #1 Intermediate Diaphragm Beam	ACLF	Arch Culvert Left Footing
DecksDS1Deck Section #1*BCWBox Culvert Floor SlabACUCArch Culvert U/S CollarDS1RCDeck Section #1 Right CurbBCRSBox Culvert Roof SlabACDCArch Culvert D/S CollarDS1LCDeck Section #1 Left CurbBCUABox Culvert U/S ApronACUAArch Culvert U/S ApronDS1RPDeck Section #1 Right ParapetBCDABox Culvert D/S ApronACDAArch Culvert D/S ApronDS1LPDeck Section #1 Left ParapetBCUWBox Culvert U/S WingwallsACUCWArch Culvert U/S Cut-off WallDS1MCDeck Section #1 Median CurbBCDWBox Culvert D/S WingwallsACDCWArch Culvert D/S Cut-off WallDS1RSDeck Section #1 Right SidewalkBCUFBox Culvert U/S Wingwall FootingACUWArch Culvert U/S WingwallDS1LSDeck Section #1 Left SidewalkBCDFBox Culvert D/S Wingwall FootingACDWArch Culvert D/S Wingwall*Deck Section #'s:ACUFArch Culvert U/S Footing	A1RS	Abutment #1 Right Sidewalk			ACRF	Arch Culvert Right Footing
DS1 Deck Section #1* DS1RC Deck Section #1 Right Curb DS1LC Deck Section #1 Left Curb DS1RP Deck Section #1 Right Parapet DS1LP Deck Section #1 Left Parapet DS1MC Deck Section #1 Left Parapet DS1MC Deck Section #1 Median Curb DS1MC Deck Section #1 Right Sidewalk DS1RP Deck Section #1 Right Parapet DS1MC Deck Section #1 Right Sidewalk DS1RP Deck Section #1 Right Parapet DS1MC Deck Section #1 Right Sidewalk DS1RS Deck Section #1 Right Sidewalk DS1RS Deck Section #1 Right Sidewalk DS1LS Deck Section #1 Left Sidew			Box Cul	<u>verts</u>	ACB	Arch Culvert Barrel
DS1RC Deck Section #1 Right Curb DS1LC Deck Section #1 Left Curb BCUA Box Culvert U/S Apron DS1RP Deck Section #1 Right Parapet DS1LP Deck Section #1 Left Parapet DS1LP Deck Section #1 Left Parapet DS1MC Deck Section #1 Median Curb DS1RS Deck Section #1 Right Sidewalk DS1LS Deck Section #1 Left Sidewalk *Deck Section #1 Left Sidewalk DS1LS Deck Section #1 Left Sidewalk DS1LS Deck Section #1 Left Sidewalk DS1LS Deck Section #1 Left Sidewalk *Deck Section #5: BCUA Box Culvert D/S Apron BCUW Box Culvert U/S Wingwalls BCUF Box Culvert D/S Wingwall Footing BCUF Box Culvert U/S Wingwall Footing BCUF Box Culvert D/S Wingwall Footing BCUF Box Culvert D/S Wingwall Footing ACUW Arch Culvert U/S Wingwall ACUW Arch Culvert U/S Wingwall ACUW Arch Culvert D/S Wingwall ACUF Arch Culvert D/S Wingwall	<u>Decks</u>		BCF	Box Culvert Floor Slab	ACFS	Arch Culvert Floor Slab
DS1LC Deck Section #1 Left Curb BCUA Box Culvert U/S Apron BCDA Box Culvert D/S Apron ACDA Arch Culvert D/S Apron ACUCW Arch Culvert D/S Cut-off Wall BCDW Box Culvert D/S Wingwalls BCDW Box Culvert D/S Wingwalls BCDW Box Culvert D/S Wingwall Footing ACUCW Arch Culvert D/S Wingwall	DS1	Deck Section #1*	BCW	Box Culvert Walls	ACUC	Arch Culvert U/S Collar
DS1RP Deck Section #1 Right Parapet DS1LP Deck Section #1 Left Parapet DS1MC Deck Section #1 Median Curb DS1RS Deck Section #1 Right Sidewalk DS1LS Deck Section #1 Left Sidewalk *Deck Section #1 Left Sidewalk DS1RS Deck Section #1 Right Parapet BCDA Box Culvert D/S Wingwalls BCDW Box Culvert D/S Wingwall Footing BCDW Box Culvert D/S Wingwall Footing BCDF Box Culvert D/S Wingwall Footing ACDW Arch Culvert D/S Wingwall ACDW Arch Culvert D/S Wingwall ACUF Arch Culvert D/S Wingwall	DS1RC	Deck Section #1 Right Curb	BCRS	Box Culvert Roof Slab	ACDC	Arch Culvert D/S Collar
DS1LP Deck Section #1 Left Parapet DS1MC Deck Section #1 Median Curb DS1RS Deck Section #1 Right Sidewalk DS1LS Deck Section #1 Left Sidewalk *Deck Section #2 Left Sidewalk DS1LS Deck Section #3 Left Sidewalk *Deck Section #4 Left Sidewalk DS1LS Deck Section #4 Left Sidewalk BCUW Box Culvert D/S Wingwalls BCUW Box Culvert D/S Wingwalls BCUW Box Culvert D/S Wingwalls BCUW Box Culvert D/S Wingwall Footing BCUW Arch Culvert D/S Wingwall ACUW Arch Culvert D/S Wingwall	DS1LC	Deck Section #1 Left Curb	BCUA	Box Culvert U/S Apron	ACUA	Arch Culvert U/S Apron
DS1MC Deck Section #1 Median Curb DS1RS Deck Section #1 Right Sidewalk DS1LS Deck Section #1 Left Sidewalk *Deck Section #5: *Deck Section #5: BCDW Box Culvert D/S Wingwalls BCUF Box Culvert U/S Wingwall Footing BCDW Box Culvert D/S Wingwalls ACDCW Arch Culvert D/S Cut-off Wall ACUW Arch Culvert D/S Wingwall ACUF Arch Culvert D/S Wingwall	DS1RP	Deck Section #1 Right Parapet	BCDA	Box Culvert D/S Apron	ACDA	Arch Culvert D/S Apron
DS1RS Deck Section #1 Right Sidewalk DS1LS Deck Section #1 Left Sidewalk *Deck Section #2: *Deck Section #3 Right Sidewalk BCUF Box Culvert U/S Wingwall Footing BCUF Box Culvert D/S Wingwall Footing BCUF Box Culvert D/S Wingwall Footing ACUW Arch Culvert U/S Wingwall ACUW Arch Culvert D/S Wingwall ACUF Arch Culvert D/S Wingwall	DS1LP	Deck Section #1 Left Parapet	BCUW	Box Culvert U/S Wingwalls	ACUCW	Arch Culvert U/S Cut-off Wall
DS1LS Deck Section #1 Left Sidewalk *Deck Section #'s: BCDF Box Culvert D/S Wingwall Footing ACDW Arch Culvert D/S Wingwall ACUF Arch Culvert U/S Footing	DS1MC	Deck Section #1 Median Curb	BCDW	Box Culvert D/S Wingwalls	ACDCW	Arch Culvert D/S Cut-off Wall
*Deck Section #'s: ACUF Arch Culvert U/S Footing	DS1RS	Deck Section #1 Right Sidewalk	BCUF	Box Culvert U/S Wingwall Footing	ACUW	Arch Culvert U/S Wingwall
· ·	DS1LS	Deck Section #1 Left Sidewalk	BCDF	Box Culvert D/S Wingwall Footing	ACDW	Arch Culvert D/S Wingwall
1 2 3 4 5 ACDF Arch Culvert D/S Footing	*Deck Sect	ion #'s:	/ 1		ACUF	Arch Culvert U/S Footing
	1	2 3 4 5			ACDF	Arch Culvert D/S Footing
out #1 Pier #1 Pier #2 Abut # 2 Evised December 2013 Concrete Cylinder Coding Sheet for Suggested Cylinder Identification Labels. Appendix C.12	out #1					