



## Addendum No. 03

### TECHNICAL ADDENDUM

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

## 1 DRAWINGS

1. Refer to Drawing C6.3
  - a. Refer to SK-C02 for missing profile of pipe network from CB16 to CB5
2. Refer to A1.5 and G1.0
  - a. Refer to attached ASK 07. Install 16mm G1S plywood to a height of 1220mm AFF, painted on both sides and edges, to the extents indicated on sketch. ASK 07 supersedes all references to, and locations of 16mm plywood G1S on wall assemblies EW1, EW2, EW3, W1, W2.
3. Refer to Drawing A1.2
  - a. Revise note 10 to read: Refer to Civil
4. Refer to Drawing A1.8
  - a. Allow for 1 additional 203 diameter bollard, 1220mm high, and 2 additional 203 diameter bollards, 2100mm high, to be installed on the raised concrete island.
5. Refer to Drawing A6.0
  - a. Replace Room Finish Schedule with attached revised Room Finish Schedule. This supersedes previously issued revision in Addendum 02. Revisions are highlighted in yellow.
6. Refer to Drawing S1.10
  - a. Refer to attached mark up of drawing S1.10 for confirmation of steel in the new canopy
1. Refer to Drawing E1.1:
  - a. Modify Note 7 by adding the following:
    - i. "In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater."
2. Refer to Drawing E1.2:
  - a. Coordinate location and orientation (possibly rotating 90°) of the generator given the size of the Sask Power transformer centered within a 6.5mx6.5m underground ground grid which shall not be covered by the generator concrete pad.
  - b. Modify Notes 1 and 9 by adding the following:
    - i. "In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater."



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3. Refer to Drawing EP2.2:
  - a. Relocate Panel V3 from Room 119 to Room 106 on exterior wall, close to the east corner of the room.
  - b. Clarification Note 5:
    - i. Provide custom Harmony Latching Red Mushrooms button XB-5ZB5AC4TQ or approved equal. Shut off button shall reset Klaxon System.
  - c. Clarification Note 6:
    - i. Provide PLC controller – Allen Bradley PLC Micro Logix 1400 Series with applicable power supplies or approved equal.
  - d. Exterior Klaxon horns shall be weatherproof (WP).
4. Refer to Drawing EP2.3:
  - a. Modify 9 by adding the following:
    - i. “In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater.”
  - b. Room 102
    - i. Provide one (1) Type FFH2 force flow heater wired with #2 12RW90 in conduit to new 20A/2P circuit breaker in Panel E3, circuit E3-8, 10.
  - c. Room L100 (Refer to Detail RE3.1).
    - i. Provide seven (7) baseboard heaters, two (2) with 208:24V control transformer and 208V, 30A/2P contactor controlled by 24V thermostat. Wire and connect with 2#10RW90 in conduit to new 30A/2P circuit breaker.
    - ii. Provide 24V thermostat to control noted baseboard heaters.
5. Refer to Drawing ES2.3:
  - a. Modify Note 5 by adding the following:
    - i. “In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater.”
6. Refer to Drawing EC1.1:
  - a. Modify Note 6 by adding the following:
    - i. “In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater.”
7. Refer to Drawing EC2.1:
  - a. Clarification to Note 7 (overriding previous addendum): UPS shall be APC by Schneider Model SMT 750.
8. Refer to Drawing EC2.2:
  - a. Modify Note 6 by adding the following:
    - i. “In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater.”



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9. Refer to Drawing EC2.3:
  - a. Modify Note 1 by adding the following:
    - i. "In addition all conduit & cabling for all systems shall be installed a minimum 300mm below any compacted fill or granular works or 1500mm below finished grade, whichever is greater."
10. Refer to Drawing EC2.5:
  - a. Clarification to Note 1 (Refer to Detail RE1.1):
    - i. Conduits for Perceptic cabling (power and control/communication) for the temporary PILS for the temporary remote devices shall be surface mounted PVC only **on** the islands, with same protected by mechanical protection designed to with stand foot traffic where subject to foot traffic. All other conduits below roadways and traffic lanes shall be buried 500mm below final grade.
11. Refer to Drawing E3.1:
  - a. Detail 6/E3.1 Room 222:
    - i. Delete CCTV camera complete with associated cabling.
  - b. Detail 4/E3.1 Room 214:
    - i. SaskTel demarcation and BIX Field as identified in Detail 3/E3.1 shall remain as is and be protected within noted room throughout the construction.

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## 2 SPECIFICATION

1. Refer to Section 01 11 00 Summary of Work  
Revise item 1.6.4.1.1 as follows:
  - .1 Two Primary Inspection lanes must be operational throughout construction period. This will require an Owner provided temporary PIL booth to be installed, and the relocation of an existing PIL booth. Installation of IPIL equipment for the temporary PIL booths will not occur before June 30, 2018. All islands, equipment posts, conduit, and other accessories must be installed, ready for IPIL installation prior to that date.
2. Refer to Section 06 10 00 Rough Carpentry
  - a. add new Article 2.7 as follows:

2.7 FIRE RETARDANT TREATED PLYWOOD

    - .1 Fire Retardant: to CSA O80.27, to provide:
      - .1 Flame Spread Classification: FSC 25 or less.
      - .2 Smoke developed of not more than: 450.



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- .2 Plywood: DFP or CSP veneer core, G1S, of thickness indicated. Treat plywood by pressure impregnation with fire retardant chemicals in accordance with CSA O80.27. Following treatment, kiln dry material to maximum moisture content of 19% (S-dry) or less.
- .3 Field treatment:
  - .1 Comply with AWPA M4 and revisions specified in CSA O80 Series, Supplementary Requirements to AWPA M2.
  - .2 Apply surface applied fire retardant to heartwood exposed from trimming, cutting, or boring.
  - .3 Remove chemical deposits on treated wood to receive applied finish.
  - .4 Use fire retardant treated plywood for any new equipment backboards:
- 3. Refer to Section 09 21 16 Gypsum Board Assemblies  
Revise item 3.4.1 to read as follows
  - .1 Location: Install Abuse Resistant Gypsum Board as face layer to walls as indicated on the attached revised Room Finish Schedule
- 4. Refer to Section 09 91 23 – Interior Painting
  - .1 Article 3.5 – Application, add new Paragraph 3.5.15 as follows:
    - .15 Plywood equipment backboards:
      - 1. Plywood for equipment backboards shall be supplied by Section 06 10 00 Rough Carpentry, to the painting Subcontractor for site painting with fire retardant paint. Carpentry Subcontractor shall:
        - 1. Cut and fit plywood panels before site painting.
        - 2. Supply cut plywood panels to painting Subcontractor for site painting.
        - 3. Install plywood backboards after they have been site paint and are cured and dry.
      - .2 Painting Subcontractor shall:
        - 1. Receive plywood panels from carpentry subcontractor and store on site.
        - 2. Site paint plywood backboards with fire retardant paint to provide a flame spread rating of 25 or less in accordance with National Building Code of Canada. Paint both sides and edges, including butt edges.
        - 3. Turn over painted panels to Carpentry Subcontractor for installation. Touch up panels after installation where finish has been scratched or damaged.”
- 5. Refer to Section 11 13 20 Loading Dock Levelers  
Revise item 2.1.3.2  
Provide standard operating controls including emergency stop button  
Delete item 2.1.3.4



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Delete item 2.1.4.9

6. Refer to Section 11 13 22 Loading Dock Lift  
Revise item 2.3.1.2.  
Bridge: Steel, 2170mm x 900mm  
Delete items 2.3.3 and 2.3.4
7. Refer to Section 26 05 00 – Common Work Results – Electrical
  - a. Item 3.7.1: Shall be retagged to Item 3.7.2.
  - b. Insert new item 3.7.1: Provide under professional Engineer seal, registered in applicable jurisdiction a Coordination/Short Circuit/Arc Flash Study for service entrance equipment, main distribution switchboard breakers and first level of sub-distribution (including 120/208V transformers and Panelboards) to ensure proper short circuit capacity and proper selective coordination. Submit a copy of the Coordination/Short Circuit Study to the Consultant with distribution shop drawings and include one copy in each Maintenance Manual.
  - c. Add new item 3.7.3:
    - i. Provide equipment Arc flash labelling as recommended in study.
8. Refer to Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings:
  - a. Delete Item 3.2.5;
  - b. Item 3.2.7 delete 'in corrosive areas'.
9. Refer to Section 26 09 43 - Site Lighting Controls:
  - a. Delete Item 2.8 and any other dimming references.
10. Refer to Section 26 36 23 – Automatic Transfer Switch:
  - a. Item 2.3: Breaker style transfer switch will **not** be allowed.
11. Refer to Section 26 56 19 – Site Lighting Controls:
  - a. Item 2.3.1.1 delete 'Wattage, 1000W. Initial (1200 max)'.
12. Refer to Section 28 13 00 – Access Control, Duress and Intrusion System:
  - a. No equals will be considered for Access Control, Duress and Intrusion Systems.
13. Refer to Section 28 23 00 - Video Surveillance:
  - a. No equal will be considered for CCTV Cameras and Video Surveillance.
  - b. Item 2.3.1.i: UPS shall be APC by Schneider Model SMT 1500.
14. Refer to Section 28 23 00 – CCTV System Appendix A:
  - a. Page 12:
    - i. CCTV pole quantities shall be as identified on the drawings.

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### 3 TENDER INQUIRY

1. Please clarify the requirement for plywood backer behind equipment panels

**All new Equipment panels should be installed on 21mm G1S Fire Retardant Treated Plywood as specified above in 06 10 00 Rough Carpentry or 21mm G1S plywood with two layers of fire retardant paint as described above in Section 09 91 23 Interior Painting.**

2. Please clarify Addendum 01 item #3  
Civil Drawing Modification for C6.1 and C6.2
  - a. Change the LDS pipe between CB5 and MH10 (Sta 6+23.73 to Sta 6+61.23)

- i. **from 39.5 - 900 mm dia. Concrete LDS pipe Class III**
- ii. **to 37.5 - 1050 mm dia. Concrete LDS pipe Class III**

3. Drawing C1.2 note 5 remove foundation full depth. Are we to remove pile full depth or break off 1.000 below grade?

**Remove foundation to full depth refers to any type of foundation including piles. The foundation shall be removed to full depth not just 1.0m below grade.**

4. Drawing C1.2 note 2 buildings to be removed under separate contract. Foundation removal & compacted backfill. The one house remove foundation to 2.5 meters and the other house is there a foundation to be removed and to what depth.

**Note 2 on Drawing C1.2 does not reference removal of buildings. The trailer was removed in 2017. Three buildings and their foundations were demolished in 2016. One building was demolished around 2010, whether or not the foundation was removed is unknown.**

5. Drawing C1.6 calls for 255 concrete to the Pil Booth Island, Drawing C2.9 calls for 250 concrete. Please clarify

**The concrete islands around the PIL booths shall be 250mm thick.**

6. Are piles required for the bollards and cameras for the temporary primary inspection lane (Drawing A1.8)

**No. Bollards, camera poles, and equipment poles in the PIL area are bolted to the concrete island using interior pipe bollard detail on S1.3**

7. Is the rebar required for the mismatched joints and small slabs (Drawing C7.4) to be epoxy coated?

**Bar mat and rebar for reinforced slabs do not need to be epoxy coated.**

8. Could revised drawings be provided for C2.8 and C2.9 be provided to give a clearer area of concrete pavement?

**See addendum 1 for revised pavement areas.**

9. Is the request that a factory winter package will be approved or are we looking at supplying a custom walk-in style?



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**The specification Section 26 32 13.04 Item 2.18 clearly defines the enclosure requirements and as such does not allow a walk-in style.**

10. The ATS as well is there a preferred manufacture?

**No manufacture preferred, although we will be issuing an addendum (in response to a different contractor/manufacture) for Section 26 36 23 Item 2.3: 'Breaker style transfer switch will not be allowed'.**

11. What DBA sounds level are they looking to obtain with the generator enclosure?

**The specification Section 26 32 13.04 Item 2.18.20 clearly defines the maximum sound level.**

12. Can you please clarify are all the stairs to be grating treads and landing?

**Yes, except for the interior stair from the warehouse down to the drive through bay.**

13. In section 13 34 23 there is no manufacturer identified for the Prefabricated Building Package Pil Booths. Are these a preassembled / premanufactured units that are placed onto the concrete foundation ready for power hook up, or are they fabricated on site. There are no related sections in the Section 13 34 23 for the different trades to be involved such as structural steel, steel studs, drywall, melamine, millwork, flooring, glazing, door / hardware, painting, mechanical, electrical, etc. Require more clarification what the construction intent is or manufacture that provides this scope of work.

**PIL booths are pre-fabricated units. All assemblies, fixtures, and finishes are to be provided by the PIL booth manufacturer.**

14. I don't see any specifications on the glazing for the photovoltaic glass wall. If that could be clarified it would be much appreciated.

**Refer to EPV1.1 and attached Lumos specification documents. Note: General Contractor should provide two spare modules and turn over to owner.**

15. Please advise how many shutdown sessions and how long each shutdown will be to plan for commissioning of the electrical system.

**Will be determined by General Contractor**

16. In Section 07 21 13 2.2.1 it calls for "insulating fibre board to CAN/ULC-S706, Type II, Grade 4, square edge". Is a Type II Grade II sufficient as it seems there is no grade 4 available?

**Bid as specified.**

17. Please see attached data on the Carlisle CCW HP Recovery Board to be used as protection course.

**Bid as specified.**

18. As indicated, regrettably, the IXL Brick Factory that manufactured the brick on the original structure was destroyed by a major flood in 2010. For this reason we would like to propose the following:



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Hebron Custom Blend Cherry Creek & Crimson Creek Ironspot Modular Brick for use on this project.

**Canyon Red Velour brick by Yankee Hill brick is a very close match. We would accept this material.**

19. Request for alternate for Piling design

**Bid as designed**

20. Request for equal for exterior ladder

**Bid as specified**

21. Request for equal for internal and exterior trench drains

**Bid as specified**

22. Request for equal for composite aluminum panels

**Bid as specified**

23. Regarding stairs:

What finish is the grating galvanized, mill, or painted black?

**Galvanized**

Are the treads the same spec as grating?

**Yes**

Per your original email you noted grating at catwalks, stair treads, and landing. The only grating I could locate on the drawings was on drawing S1.5 inspection platform and I am assuming those treads are grating that are connected to the platform. If you know of any other grating please let me know as of right now this is the only platform on the estimate.

**All exterior stairs will be metal grate, galvanized finish**

24. Are you accepting application for equal for the CCTV systems?

In this case Panasonic instead of AXIS?

**No alternates will be considered for this item. See Specification item above Section 28 13 00 – Access Control, Duress and Intrusion System:**

25. Refer to specification section 055129 # 2.3.2

"Form steel grating treads and landings from metal bar grating to profile indicated and secure to stringers and supports as indicated. Form landings of steel grating and reinforce as require"

Drawing A4.0 and A5.1 Shows the stairs as bent plate pans

Please confirm if Grating or Bent Plate pans are required as the drawings show bent plate but specs mention grating treads

**All exterior stairs are metal grating. Interior PIL booth stairs are by PIL booth manufacturer.**





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26. Please provide a spec for the IPLC pedestals

**Addressed in Addendum 02 under Drawings E1.2 item b.**

27. Request For Equal to substitute Vicwest's CL7040 cladding profile for the spec'd Centria Style Rib profile, in the same gauge and colour.

**This product is acceptable.**

28. Request For Equal to substitute Vicwest's CL938 cladding profile for the spec'd Centria BR5-35 profile, in the same gauge and colour.

**This product is acceptable**

29. Request For alternate vapour barriers.

**Bid as specified**

30. Pill Booth 1, 2, & 3 are asking for sheet rubber flooring in the room finish schedule. There is no mention of sheet rubber flooring in the specifications. Please clarify what flooring material is required in these rooms.

**Rubber floor in PIL booth by PIL booth manufacturer**

31. There is only 6 colors available in Forbo - Marmoleum Real 3.2mm linoleum sheet flooring. These colors are not stocked in North America and would have to ship from overseas. The Real line is now 2.5mm for the standard full range of product available in North America. Is the 2.5mm acceptable?

**2.5mm is acceptable for linoleum thickness**

32. In the room finish schedule, there is no rubber base mentioned for any of the rooms. However, rubber base is mentioned in the specifications. Please clarify which rooms are to receive rubber base - if any.

**See attached revised Room Finish Schedule**

33. Refer to specification section 051223 # 1.3.5.2

"Provide mill test reports certified by metallurgists qualified to practice in Province of Saskatchewan" Please forward contact of such an individual. After consultation within industry there is no evidence such a person exists. Please note the steel specified is not produced in Saskatchewan, nor neighbouring provinces. (i.e. we are not aware of local/regional metallurgists that will certify MTR's from out of country (e.g. USA) mills)

**This should have read "Upon request, provide mill test reports". There is an available professional here in Manitoba that is licensed to practice in Saskatchewan if required. At this time, MTR's are not required to have a local certification.**

34. Refer to specification section 051223 # 1.3.6.1 Samples

Confirm that as this work is in Canada, samples to the CISC (Canadian Institute of Steel Construction) guide for Specifying Architecturally Exposed Structural Steel will be accepted over using the American Standard of the same that is referenced in 1.3.6.1. Please provide advisement on what samples and number of samples are required specifically.

**CISC standard is to be used. No samples are required.**



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35. Refer to specification section 051223 # 2.3.1.13 Fabrication

".13 All bolted connections to have double angles and minimum 2 bolts." Please confirm this is for STANDARD connections ONLY. The canopy beams have several connections that cannot be accommodated by double angle connections.

**Confirmed, standard connections only.**

36. Refer to specification section 051223 # 3.7.1.1 AND #3.5.1.2 Field painting

Touch up damaged surfaces and surfaces without shop coat with primer to SSPC-SP7 except as specified otherwise. Apply in accordance: MPI Architectural Painting Specification Manual.

Please confirm general contractor's painter is allowing for this sandblast or confirm SP7 brush off blast is not required and this should be SP3 power tools clean (typical in field touch up applications for steel not receiving any other field abrasive blasting)

**Bids should be as per the contract documents.**

37. Refer to specification section 055000 # 2.1. Materials

Refer to 2.1.6 Please confirm "Anchor bolts: to ASTM F1554 Grade 105." is not required in this section. This grade seems to be higher than what may be required. Especially considering section 051223 states "ASTM A307 Grade C or to ASTM F1554 Grade 36 up to 28mm diameter and to ASTM F1554 Grade 55 for 32mm diameters and above. All anchor bolts to be weldable" (i.e. lower grade for structural over metal fabrications?)

**We confirm this is not required in this section.**

38. Refer to 2.1.2 Steel pipe:ASTM A53/A53M standard weight, galvanized finish.

ALL pipe is to have galvanized finish? Including handrails. Etc? (Aren't these painted? Or ALL stairs and handrail are galvanized)

**Handrails and exposed pipe to be galvanized, not painted.**

39. Refer to specification sections 051223 AND 055000 # 3.6.1.1 Field quality control

Specifically, what testing and inspection is required? (note: "As per W59" will not define type of testing or frequency of testing owner requires)

**QA/QC is General Contractor responsibility**

40. Refer to specification section 055129 Materials

Refer to 2.1.4 Steel pipe:ASTM A53/A53M standard weight, galvanized finish. ALL pipe is to have galvanized finish? Including handrails. Etc? (Aren't these painted? Or ALL stairs and handrail are galvanized)

**Handrails and exposed pipe to be galvanized, not painted.**

41. Design in Canopy

Attached is pdf of canopy plan requesting short beam designations (or maybe confirmation of continuance of same designations)



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What elevation is HSS horizontal bracing at? (i.e. mid height on WWF600's? Mid height on W530's? Directly underneath channel purlins?)

### **See attached marked up S1.10**

42. Drawings S1.2 can the piles for the Flag pole, Camera and Luminaire be redesigned for frost heaving without the grease and poly wrap. Using CFA piles can't be done unless we have pile cut off at bottom of sonotube and excavate and backfill after to install the greased poly wrapped sonotube. More cost effective to redesign the piles.

### **Bid as designed**

43. Drawing S1.1 CW3 calls for 300 wide concrete wall. Drawing S3.2 Section 2 calls for 200 wide. Please clarify which is correct.

### **300 Wide is correct. Section is drawn correctly, the note did not get updated accordingly.**

44. Drawing S1.1 Weld Plate Schedule WP1 calls for 200 x 350 x 13, Drawing S1.3 Typical Brick Support calls for 150 x 325 x 16

### **WP1 is not for the typical brick support. Provide WP1 where noted on the drawings, provide the weld plate for the typical brick support where required for the typical brick support.**

45. Drawing S1.9 grid E7/EE indicates gable truss see 3/S3.3 for detail. This detail relates to warehouse precast sump pit.

### **Refer to section 4/S3.4**

46. Drawing S1.9 grid E7/EF note indicates Structural Gable truss see drawing 4/S3.5. There is no drawing S3.5

### **Refer to section 4/S3.4.**

47. Drawing A1.2 Commercial Building north of Temporary Pil Booth the sidewalk indicates as existing item 1. Should this read item 2 new sidewalk?

### **Yes, that note should indicate new sidewalk**

48. Drawing A1.8 Raised slab how thick is this slab required.

### **Temporary concrete island is 250mm thick**

49. Drawing A1.8 What is the foundation requirements for the temporary placed 10 bollards, 1 camera, 8 vehicle detection. Are they to follow the details on drawing S1.2 and S1.3. If following the structural design what are the requirements for the removal of the foundation. Will it be to 1.000 below grade.

### **All bollards and equipment posts on the PIL islands should be anchored to concrete island using detail for Interior Bollard shown on sheet S1.3**

50. Drawing A1.4 Pil Booth Island what is the foundation requirements for the 15 bollards, 4 camera, 16 vehicle, 3 stop sign, 2 RFID and 1 CCTV poles. Are they to follow the details on drawing S1.2 and S1.3. If so we will require foundation design for vehicle detection post, stop sign post, RFID post and CCTV post.



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**All bollards and equipment posts on the PIL islands should be anchored to concrete island using detail for Interior Bollard shown on sheet S1.3**

51. G1.0 Exterior wall Types. Require what material is identified as Exterior sheathing is it plywood or exterior drywall. As there are different trades for the product require clarification.

**Exterior Gypsum Board. Refer to Specification Section 09 21 16 2.1.2**

52. We have been unable to locate a Specification for the Photovoltaic modules and solar system components indicated on DWG EPV 1.1. Will a Specification be issued for this system and its components?

**See attached spec sheet for Lumos frameless panel and Installation manual**

53. Will alternative P.V system manufacturers be considered for equals?

**Alternative would be considered if it meets the intent of the drawings in terms of module size, panel construction, and performance.**

54. Will there be any structural details issued prior to tender regarding the mounting of the PV panels to the exterior wall of the commercial building?

**Refer to attached Installation manual**

55. I'm doing a takeoff for the material supply of manholes & catch basins & can't find a detail on CB-2, CB-14, CB-15, CB-16. Can you tell me what drawing they're on? (Maybe I'm missing a page, but I don't think so)

**For catch basins and manhole details see City of Regina Standard Details in the appendix.**

- o **CB-2 shall be a 900mm dia. catch basin (C.O.R. Detail S-13 with a 600 mm sump)**
- o **CP-16 shall be a 900mm dia. catch pit with no sump. The base shall be grouted to slope to outlet pipe in the field.**
- o **CB-15 and CB-14 shall be 1200 mm dia. catch basin manholes with a 600 mm sump.**
- o **Catch basin manholes shall be similar to City of Regina Detail S-3 with a 600 mm sump.**

56. Also is CB-17 supposed to be two - 1800mm catch basins?

**For CB-17, see detail on C6.6.**

**See sketch SK-C02 for missing profile of pipe network from CB16 to CB5**

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