



**US Army Corps
of Engineers®**
St. Paul District

Appendix L: Quality Control

Fargo Moorhead Metropolitan Area
Flood Risk Management Project

**Oxbow, Hickson, Bakke Ring Levee Phase
WP-43B**

Engineering and Design Phase

P2#

Doc Version: FTR - ATR Review Submittal

14 November 2014

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Appendix L: Quality Control

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ATTACHMENTS

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| Attachment L-2 | 35% DTR DQC Review Summary and Responses |
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| Attachment L-7 | 65% DTR FTR Sponsor Review Comments and Responses |
| Attachment L-8 | FTR DQC Review Comments and Responses |

The Attachments below will be included in future submittals

| | |
|-----------------|---|
| Attachment L-9 | FTR ATR Review Comments and Responses |
| Attachment L-10 | FTR Sponsor Review Comments and Responses |
| Attachment L-11 | IEPR Comments and Responses |

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Appendix L: Quality Control

L.1 GENERAL

As stated by EC 1165-2-214, all planning, engineering and scientific work will undergo a vigorous review process. Technical, scientific, and engineering information that is relied upon to support recommendations in decision documents or form the basis of designs, specifications, and/or O&M requirements will be reviewed to ensure technical quality and practical application.

L.2 REVIEWS TO BE CONDUCTED FOR WP-43B

L.2.1 District Quality Control (DQC) Review

District Quality Control Reviews will be performed on all engineering and design products for WP-43B as required by EC-1165-2-214.

L.2.2 Agency Technical Review (ATR)

Agency Technical Reviews will be performed on the engineering and design products associated with the WP-43B as required by EC-1165-2-214.

L.2.3 Independent External Peer Review (IEPR)

Since WP-43B will be designed to P&S level for the OHB Ring Levee Project, a Type II IEPR will be conducted.

L.2.4 Lessons Learned and After Action Reviews

Prior to start of designs, Design Engineers will review lessons learned from available databases and files that are pertinent and will assure they are considered for incorporation into the engineering and design products being prepared.

L.2.5 Final Product Quality Review Certifications

Upon completion of each design product or deliverable, the Project Engineer will perform a final product quality review and prepare a quality review certificate.

L.3 REVIEW DOCUMENTATION

The attachments at the end of this Appendix document the status of the reviews that have occurred and will be updated as reviews are completed and closed out.

Home / [Select Project](#) / [Select App](#)

Project: (FMM-PED-L1) Fargo-Moorhead Metro - OHB

DrChecks(6)
Search:

| Pinned? | RPT | ID/Edit | Add Comments | Edit | Evaluate | My BackCheck | All BackCheck |
|---------|-----|---------|---|----------------|-------------------|---------------|---------------|
| | | | | All/Note/Yours | Pend/Concur/Other | Pend/Opn/Clsd | Pend/Opn/Clsd |
| | | 00006 | DTR-OHB-WP 43B - DQC (May 21/14 to Jun 04/14) Review Underway. | 0 / 0 / 0 | 0 / 0 / 0 | 0 / 0 / 0 | 0 / 0 / 0 |
| | | 00005 | OHB - Geotechnical DQC (Mar 11/14 to Mar 25/14) Comments overdue. | 1 / 0 / 0 | 1 / 4 / 1 | 0 / 0 / 0 | 5 / 0 / 0 |
| | | 00003 | DTR(35%)-OHB-WP43B-ATR Review (Jan 03/14 to Jan 17/14) Closed for comments | 28 / 0 / 0 | 29 / 3 / 2 | 0 / 0 / 0 | 1 / 1 / 4 |
| | | 00004 | DTR(35%)-OHB-WP43B-Sponsor Review (Jan 03/14 to Jan 17/14) Closed for comments | 3 / 0 / 0 | 3 / 2 / 2 | 0 / 0 / 0 | 4 / 0 / 0 |
| | | 00002 | PER - OHB-WP43B - DQC (Nov 25/13 to Dec 09/13) Closed for comments | 0 / 0 / 0 | 0 / 14 / 1 | 0 / 0 / 0 | 15 / 0 / 0 |
| | | 00001 | OHB-wave analysis (Oct 15/13 to Nov 25/13) Not Assigned | 1 / 0 / 0 | 1 / 1 / 0 | 0 / 0 / 0 | 0 / 0 / 1 |

Showing 1 to 6 of 6 entries

Filer(1)
Search:

Showing 0 to 0 of 0 entries

Project Memo
Search:

Showing 0 to 0 of 0 entries

To change your access to this project, please contact a **manager** listed below.
Search:

| First Name | Last Name | Site | Email | Voice |
|------------|-----------|-------------------------|-----------------------------------|------------|
| Brett | Coleman | MVP St. Paul Distric... | brett.r.coleman@usace.army.mil... | 6512905452 |

Showing 1 to 1 of 1 entries

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Patent 11/892,984 [ProjNet](#) property of ERDC since 2004. There are currently **387** users online.

Comment Report: All Comments

Project: Fargo-Moorhead Metro - OHB

Review: PER - OHB-WP43B - DQC

Displaying 15 comments for the criteria specified in this report.

| Id | Discipline | DocType | Spec | Sheet | Detail |
|-----------|-------------------|----------------|-------------|--------------|---------------|
| 5444719 | CAD-BIM | Plans | n/a | n/a | n/a |

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

Drawings with written comments are provided to designer. These contain spelling errors, etc.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

Thank you for your review.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

Items were updated.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Jun 05 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------|-----|
| 5444724 | CAD-BIM | Plans | n/a | G-001 | n/a |
|---------|---------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

Cover sheet missing Solicitation/contract/month text in lower left. The 4th line of text doesn't match the 4th line of the title block text.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

Solicitation, Contract and Month text have been added in lower left. Title blocks have been changed to match the text.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Open Comment

Solicitation/contract/month text added in lower left has been added to overall coversheet. It is to be removed from the individual volume cover sheet along with the signature blocks (G-003 (Vol 1) & G-001 (vol 2)).

4th line of titleblock has been updated except for geotech sheets (B-).

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: May 23 2014

1-2 Backcheck Recommendation Close Comment

solicitation/contract/month text and signature block was removed from volume 2 cover sheet.

4th line of titleblock text has been updated for geotech sheets.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

2-0 Evaluation Concurred

Solicitation/Contract/month text was removed from G-003 and G-001. B- sheet titleblocks have been updated.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------|-----|
| 5444728 | CAD-BIM | Plans | n/a | G-003 | n/a |
|---------|---------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

work limit line in legend doesn't seem to be plotting correctly.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

Work limit line has been fixed to plot correctly.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 02 2014

1-1 Backcheck Recommendation Close Comment

work limit line plotting correctly.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: May 23 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------|-----|
| 5444730 | CAD-BIM | Plans | n/a | C-101 | n/a |
|---------|---------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

For control points located outside of the plan area, identify an approximate distance to location.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

Distance to location of control point has been added.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

distances have been added for control points outside of the plan box.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: May 23 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------|-----|
| 5444739 | CAD-BIM | Plans | n/a | CS101 | n/a |
|---------|---------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

There are 2 solid lines that cross in plan view near coordiante D2. They seem to ve the highway or township. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

The level that the solid lines are on has been turned off. (These lines are only shown on ROW drawings).

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

Lines are no longer shown.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: May 23 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------|-----|
| 5444742 | CAD-BIM | Plans | n/a | CS101 | n/a |
|---------|---------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

Define the screened dashed line in the profile.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

The screened dashed line has been removed.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

screen dashed line has been removed.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: May 23 2014

Current Comment Status: **Comment Closed**

5444771 CAD-BIM Plans n/a CS105 & CS106 n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

work limits extend outside of the plan area. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

A new sheet (CS114) has been added to drawing set showing the borrow site and future retention pond (location to be determined at future date). Match lines have been added to sheets CS105 & CS106.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Open Comment

Volume 1: CS103, CS109, CS110, CS111

Volume 2: CS105 - extend matchline and clip work limit accordingly CS107 - line missing

either a match line or a see sheet line.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Sep 03 2014

2-0 Evaluation Concurred

Match lines have been added to the plans.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

2-1 Backcheck Recommendation Open Comment

Volume 1: match lines don't match for CS109 through CS111. Work limits extend outside of plan area CS109-CS111.

Volume 2: match lines do not match for CS106.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

Current Comment Status: **Comment Open**

5444779 CAD-BIM Plans n/a CS109 n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

I believe that section F Bubble should be Section E. There doesn't seem to be a Section F symbol.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

All section bubbles have been checked to correspond with cross sections sheets.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Jun 05 2014

Current Comment Status: **Comment Closed**

5444787 CAD-BIM Plans n/a CS113 n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

WP-43D is called out on the profile. Is the levee being built as part of this project or that project? Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

At the time of ATR Submittal the design and construction phasing of 43D is unknown.

This is no longer part of the WP-43B contract:

Volume 1 is from STA B 0+00-73+80

Volume 2 is from STA b 73+80-119+XX.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: May 13 2014

1-1 Backcheck Recommendation Close Comment

Reference to 43D has been removed from the drawing set.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Jun 05 2014

Current Comment Status: **Comment Closed**

5444970 CAD-BIM Plans n/a CS501 n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

Scale bars and scales are missing. Or add "not to scale".

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 03 2013

1-0 Evaluation Concurred

"NOT TO SCALE" has been added to drawing.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

Not to scale has been added.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Jun 05 2014

Current Comment Status: **Comment Closed**

5445582 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Real Estate

Real Estate drawings are not included.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Dec 04 2013

1-0 Evaluation For Information Only

The Real Estate drawing are not included in this submittal. The Real Estate drawings are being furnished by the sponsor in a different contract.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: May 13 2014

1-1 Backcheck Recommendation Close Comment

Real Estate drawings are being done by the sponsor.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Jun 05 2014

Current Comment Status: **Comment Closed**

5450980 Civil Plans n/a n/a n/a

Comment Classification: **Public (Public)**

FMM43B_DTR_DQC.pdf documents were reviewed and courtesy comments were provided to the PDT for consideration in preparing the 65% DTR documents.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Dec 09 2013

1-0 Evaluation Concurred

Thank you for your review.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

FMM43B_65DTRDQC.pdf documents were reviewed. The majority of courtesy comments provided were addressed in these documents. Any remaining pertinent comments will be provided to the PDT for consideration in preparing the 95% FTR documents.

Submitted By: [Christine Moss](#) ((651) 290-5025) Submitted On: Jun 10 2014

Current Comment Status: **Comment Closed**

5450981 Civil Plans n/a CS106 n/a

Comment Classification: **Public (Public)**

It appears that the inside drainage ditch has a low point at STA IB 51+66.98 per CS207 at Field Access Road 1 (51st Street). A 145 l.f. 64"x43" CSPA culvert is identified however, the profile indicates a low point with drainage meeting at the access road. It is not clear where the drainage goes.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Dec 09 2013

1-0 Evaluation Concurred

Callout has be added stating "INSIDE DRAINAGE DITCH AND CULVERT WILL OUTLET INTO RETENTION POND"

AT THE TIME OF ATR SUBMITTAL THE DESIGN AND LOCATION OF RETENTION POND HAS NOT BEEN DETIRMINED

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 02 2014

1-1 Backcheck Recommendation Close Comment

Callout is not included in plan documents, however, the inside drainage ditch (IBB) as shown on CS106 includes a 166 LF 64"x43" CSPA with positive drainage under 51st Street Access Road and draining towards the retention pond. CS205 also identifies the positive drainage.

Submitted By: [Christine Moss](#) ((651) 290-5025) Submitted On: Jun 06 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-------|-------|-----|-------|-----|
| 5450982 | Civil | Plans | n/a | CS111 | n/a |
|---------|-------|-------|-----|-------|-----|

Comment Classification: **Public (Public)**

It is not clear where the 100 LF 35"x24" CSPA culvert on the inside drainage ditch under Access Road (Main Street) flows to since the ditch appears to end and CS112 and CS113 do not indicate an inside drainage ditch.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Dec 09 2013

1-0 Evaluation Concurred

Callout has been added stating "CULVERT WILL OUTLET INTO FUTURE RETENTION POND DESIGNED AND CONSTRUCTED BY OTHERS".

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

1-1 Backcheck Recommendation Close Comment

Callout is not included on Volume 2, CS104 to indicate where the inside drainage and culvert under Main Street drains towards. This comment will be closed under this PER review and added to the 65% DTR DQC review comments.

Submitted By: [Christine Moss](#) ((651) 290-5025) Submitted On: Jun 09 2014

Current Comment Status: **Comment Closed**

5451649 Geotechnical Plans and Specs n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

The provided documents were reviewed and I have no significant comments.

Submitted By: [Gregory Wachman](#) (651-290-5192). Submitted On: Dec 10 2013

1-0 Evaluation Concurred

Thank you for your review.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Dec 31 2013

Backcheck not conducted

Current Comment Status: **Comment Open**

Public / SBU / FOUO

Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.

Comment Report: All Comments

Project: Fargo-Moorhead Metro - OHB

Review: DTR(35%)-OHB-WP43B-ATR Review

Displaying 34 comments for the criteria specified in this report.

| Id | Discipline | DocType | Spec | Sheet | Detail |
|-----------|-------------------|-----------------------------|-------------|--------------|---------------|
| 5472839 | Structural | Design Memorandum or Report | n/a | n/a | n/a |

Comment Classification: **Public (Public)**

I have reviewed the documents, and as there are no structural engineering features in this phase I have no comments.

Submitted By: [Lyle Peterson](#) (402-995-2161). Submitted On: Jan 06 2014

1-0 Evaluation Concurred

Thank you.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-----------|-----------------------------|------------------------|-----|-----|
| 5479704 | Hydrology | Design Memorandum or Report | Section 2.3 of DDR 35% | n/a | n/a |
|---------|-----------|-----------------------------|------------------------|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Page 11 of 39 of Wind-Wave analysis report states wind values were computed for calculating the maximum wind-wave runoff and overtopping of the levee for the 1% AEP pool. Page 11 of the DDR 35% states levee is being designed based on adding sufficient freeboard to the 0.2% chance with project event (the 500-year pool).

Please coordinate the wind-wave study to compute wave run-up and overtopping for the levee design condition. Report values between the wind-wave report and DDR should be in agreement as to project design elevations.

Submitted By: [Ron Beyer](#) (402-995-2339). Submitted On: Jan 10 2014

1-0 Evaluation Concurred

The DDR (Section 2.3.1) has been modified to say that the design water surface elevation is 922.5'. As stated in the report (included in the DDR as Appendix C.1), the wind/wave modeling was performed assuming the staging area still water level for both the 1% and 0.2% annual chance events is 922.5', which is accurate.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Thank you, change verified.

Submitted By: [Ron Beyer](#) (402-995-2339) Submitted On: Jun 25 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|------------|-----------------------------|-----|---------------------|-----|
| 5481483 | Hydraulics | Design Memorandum or Report | n/a | Sect. 3.1, 6th line | n/a |
|---------|------------|-----------------------------|-----|---------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: p. 12 35% DDR](#))

Coordinating Discipline(s): Project Management

Switch 'levee' and 'top' (after '10').

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

1-0 Evaluation Concurred

The text has been changed.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Concur with change

Submitted By: [Roger Kay](#) (402-995-2342) Submitted On: Jun 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|------------|-----------------------------|-----|---------|-----|
| 5481714 | Hydraulics | Design Memorandum or Report | n/a | Table 1 | n/a |
|---------|------------|-----------------------------|-----|---------|-----|

Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: P. 12 DDR](#))

Coordinating Discipline(s): Project Management

Elevations in previous reports had el. 923 for the 1%-0.2% flood event (and wind-wave report says el. to be maintained at 922.2). Obviously the modeling on this continues to evolve, but is this modeling being reviewed externally? This review team has not seen any updated modeling in a very long time.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

Revised Jan 13 2014.

1-0 Evaluation Concurred

The wind-wave report (Appendix C.1 of the DDR) states that the wind-wave modeling was performed assuming the staging area water surface was at elevation 922.5', which corresponds to the staging area water surface elevation during the 1% and 0.2% annual chance exceedance events. This is based on the Phase 7 RAS model, which was used to

develop the environmental assessment report.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Open Comment

So has the Phase 7 RAS model been reviewed by the ATR team, and if so, which iteration of review was that?

Submitted By: [Roger Kay](#) (402-995-2342) Submitted On: Jun 27 2014

2-0 Evaluation Concurred

The Phase 7 RAS model has not been through an ATR. The Phase 7 modeling did not differ greatly from the previous modeling effort. Since the previous modeling had gone through the ATR process, another ATR wasn't considered necessary at the time. Changes are currently being made to the Phase 7 RAS model as part of the Phase 8 RAS modeling effort. When this work is completed the Phase 8 model will go through the ATR process.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 25 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------|-----------------------------|-----|----------|-----|
| 5481767 | Hydraulics | Design Memorandum or Report | n/a | Sec. 2.3 | n/a |
|---------|------------|-----------------------------|-----|----------|-----|

Comment Classification: **For Official Use Only (FOUO)**
([Document Reference: p. 11 DDR](#))

Coordinating Discipline(s): Hydraulics

Just a reminder that levee top profiles are not designed with 'freeboard'. Rather we would set the levee top profile to provide a certain level of assurance of non-overtopping for the design event.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

1-0 Evaluation Concurred

The wording has been revised to more accurately describe the levee top profile. Freeboard is no longer used.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Concur with changes

Submitted By: [Roger Kay](#) (402-995-2342) Submitted On: Jun 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|------------|-----------------------------|-----|-------|-----|
| 5482056 | Hydraulics | Design Memorandum or Report | n/a | Fig 5 | n/a |
|---------|------------|-----------------------------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: p. 14 DDR)

Coordinating Discipline(s): Civil

Recommend deleting top of levee elevation from figure, as it does not match drawings, and design may yet change.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

Revised Jan 13 2014.

1-0 Evaluation Concurred

We have updated the top of levee elevation to match the drawings. The design should not be changing at this point.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Elevation has been removed from figure, concur with change

Submitted By: [Roger Kay](#) (402-995-2342) Submitted On: Jun 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|------------|-----------------------------|-----|-----------|-----|
| 5482087 | Hydraulics | Design Memorandum or Report | n/a | Sect. 4.2 | n/a |
|---------|------------|-----------------------------|-----|-----------|-----|

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: p. 14 DDR)

Coordinating Discipline(s): Civil

For road raises crossing the levee, will all roads be at or above levee top profile, so as to eliminate need for closure structures?

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

1-0 Evaluation Concurred

The road raises will be at or above top of levee profile so no need for closure structures.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Thank you for clarification, concur with the approach.

Submitted By: [Roger Kay](#) (402-995-2342) Submitted On: Jun 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|------------|-----------------------------|-----|----------|-----|
| 5482136 | Hydraulics | Design Memorandum or Report | n/a | Detail 2 | n/a |
|---------|------------|-----------------------------|-----|----------|-----|

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: CS501)

Coordinating Discipline(s): Civil

Please clarify - construction grade of 928.1 is to be at top of aggregate? So essentially you are constructing to protect up to el. 927 (928.1 - 5'*2% for cross-slope - 0.5 feet for overbuild) at the outside shoulder of the levee embankment?

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

1-0 Evaluation Concurred

The top of levee elevation varies due to geotechnical requirements. A note has been added to the detail stating: "Construction grade at control line elevation varies, see profile".

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

Concur with change

Submitted By: [Roger Kay](#) (402-995-2342) Submitted On: Jun 27 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------|-----------------------------|-----|----------|-----|
| 5482141 | Hydraulics | Design Memorandum or Report | n/a | Key Plan | n/a |
|---------|------------|-----------------------------|-----|----------|-----|

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: CS106)

Coordinating Discipline(s): Civil

Highlighted plate is same as Sheet CS105, please correct.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jan 13 2014

1-0 Evaluation Concurred

Highlighted plate has been corrected.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 23 2014

1-1 Backcheck Recommendation Open Comment

Closed without comment.

Submitted By: [Lyle Peterson](#) (402-995-2161) Submitted On: May 02 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|--------------|-----------------------------|-----|-----|-----|
| 5483480 | Geotechnical | Design Memorandum or Report | n/a | n/a | n/a |
|---------|--------------|-----------------------------|-----|-----|-----|

Comment Classification: **Sensitive But Unclassified (SBU)**
(Document Reference: Drawings B-101 Notes)

Clarify meaning of Note 1.

Notes should indicate that circles with overlying cross represents boring locations.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jan 14 2014

1-0 Evaluation Concurred

The boring symbol and number has been added to the general legend on sheet G-004 in volume 1 and sheet G-002 in volume 2. Note 1 has been removed from the sheet.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Steve Butler](#) (402-995-2244) Submitted On: Jun 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|--------------|-----------------------------|-----|-----|-----|
| 5483499 | Geotechnical | Design Memorandum or Report | n/a | n/a | n/a |
|---------|--------------|-----------------------------|-----|-----|-----|

Comment Classification: **Sensitive But Unclassified (SBU)**
(Document Reference: Design Documentation Report Page 12 Para 3.1)

Reword sentence toward middle of para 3.1 from "The 10 levee foot top will" to "The ten foot levee top."

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jan 14 2014

1-0 Evaluation Concurred

The 3.1 LEvee paragraph has been updated per your comment.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Steve Butler](#) (402-995-2244) Submitted On: Jun 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|--------------|-----------------------------|-----|-----|-----|
| 5483509 | Geotechnical | Design Memorandum or Report | n/a | n/a | n/a |
|---------|--------------|-----------------------------|-----|-----|-----|

Comment Classification: **Sensitive But Unclassified (SBU)**
(Document Reference: Design Documentation Report Page 13 Para 3.1.1)

Change "covey" to "convey."

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jan 14 2014

1-0 Evaluation Concurred

Covey has been revised to read as convey.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Steve Butler](#) (402-995-2244) Submitted On: Jun 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|--------------|-----------------------------|-----|-----|-----|
| 5483513 | Geotechnical | Design Memorandum or Report | n/a | n/a | n/a |
|---------|--------------|-----------------------------|-----|-----|-----|

Comment Classification: **Sensitive But Unclassified (SBU)**
(Document Reference: Appx D-1 Geot Engineering Params Page 10)

Remove "?" in legend.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jan 14 2014

1-0 Evaluation Non-concurred

This was included as there is some uncertainty in the formation selection and is used to indicate this.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

1-1 Backcheck Recommendation Close Comment

Closed without comment.

Submitted By: [Steve Butler](#) (402-995-2244) Submitted On: Jun 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-----------|-----------------------------|-----|-----|-----|
| 5483891 | Hydrology | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-----------|-----------------------------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): Hydrology

The OHB Wind Wave Analysis Final Draft Report appears to have already been released to the general public. Why was the report data excluded from the 35% DDR?

Submitted By: [Ron Beyer](#) (402-995-2339). Submitted On: Jan 14 2014

1-0 Evaluation Concurred

The wind wave analysis documentation has been included as part of Appendix C.1 of the DDR. The report was still under review at the time of the 35% submittal.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Open Comment

Has the revised wind-wave analysis, incorporating Omaha District comments been ATR'ed? If so, Omaha would like to see the Dr. Checks documentation to verify ATR was completed on revised wind-wave.

Submitted By: [Ron Beyer](#) (402-995-2339) Submitted On: Jun 25 2014

2-0 Evaluation Concurred

The OHB wind/wave analysis was reviewed by Jennifer Tate (ERDC-CHL) in November 2013. Her comments were incorporated into the current document and approved by the reviewer in April 2014.

Currently a scope of work is being developed for the ATR of a wind-wave analysis for the entire FMM project. That analysis will be similar to what was done for the OHB levee but will include all embankments associated with the larger FMM project, including the tieback embankments at the north end of the staging area. It was agreed that this separate ATR of the wind/wave analysis is necessary for the whole FMM project, but it was also agreed that ERDC's review of the OHB work is sufficient.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 25 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-----------|-----------------------------|--------|----|-----|
| 5484100 | Hydrology | Design Memorandum or Report | 3.1.1. | 13 | n/a |
|---------|-----------|-----------------------------|--------|----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Hydraulics

Section 3.1.1. Inside Ditch of 35% DDR-

Last sentence states "...Additional documentation on the inside ditches and the interior flood control plans can be found in Appendix C"

There is no data provided in Appendix C.

Submitted By: [Ron Beyer](#) (402-995-2339). Submitted On: Jan 14 2014

1-0 Evaluation Concurred

The wording of 3.1.1 has been changed so that it does not refer to Appendix C.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

1-1 Backcheck Recommendation Close Comment

Revision verified in 65% report, thank you.

Submitted By: [Ron Beyer](#) (402-995-2339) Submitted On: Jun 25 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-----------|-----------------------------|-----|-----|-----|
| 5493541 | Economics | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-----------|-----------------------------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [DDR, Sec. 1.3, next to last paragraph](#))

The statement is made "Approximately 40 residential lots and portions of the existing Oxbow Country Club Golf Course will be relocated from the east side of the city into a new replacement area." This does not indicate the full scope of the relocations. It should be stated that the golf course clubhouse, parking lot and road access will also need to be relocated and that at least some of the golf course holes remaining on the land side of the ring levee may need to be reconfigured.

Submitted By: [Elizabeth Peake](#) (402-995-2686). Submitted On: Jan 22 2014

1-0 Evaluation Concurred

1.3 Project Features has been updated to provide additional information on the overall project per your comment above.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-----------|-----------------------------|-----|-----|-----|
| 5493545 | Economics | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-----------|-----------------------------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: [DDR, Sec. 3.1, paragraph 1, lines 6-8 & Sec. 5.1](#))

As part of the USACE's creating a conceptual recreation plan for the ring levee project, it is suggested that the gravel maintenance road on the top of the levee be considered for use as a pedestrian trail also. A stile at each levee-access barrier/gate could allow only non-vehicular public use, if MVP finds such recreational use technically feasible from an engineering and levee safety standpoint. If such recreational use is technically feasible, local interests should be consulted regarding input on this potential recreation opportunity and, as stated in Sec. 5.1, the additional recreation details should be provided in future submittals.

Submitted By: [Elizabeth Peake](#) (402-995-2686). Submitted On: Jan 22 2014

1-0 Evaluation Concurred

Trails have been suggested in the recreation plan but the location of the trails have not been finalized. One option is to use the top of levee as a pedestrian trail. Communication with the local interests has been ongoing.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500403 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: Golf Course Layout, Page 3.](#))

Item 8. Include the 3 foot root zone on the plan details.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The Golf Course layout and Construction is not part of the 43B Contract, the above mentioned detail will not be included in the 43B construction package.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500422 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: Golf Course Layout, Page 5.](#))

Items 16 and 17. Indicate any other obstructions that may need to be considered; power poles, other utilities, buildings, etc.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Non-concurred

I believe you are referring to the DDR paragraph 1.3? This is just a summary of the project description. The various work packages go into detail regarding the obstructions and utilities.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500441 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
(Document Reference: Bid Schedule)

Suggest lumping some of the items on the bid schedule into an "all other work item," unless needing a separate lump sum price for items such as care of water, erosion protection. Mob/Demob could be included in "all other work." Or, may want to include as a LS item on the bid sheet.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Non-concurred

We generally don't include a mob/demob item in our bid schedules unless there is an unusually high cost for mob/demob for a particular project. This is at the request of our contracting office. The cost of mob/demob will be a contractor overhead item that will be spread over all the bid items. I do not agree with using a LS item for "all other work". This is too hard to measure for payment. Contractor will say all other work is complete at the beginning of the contract and we will say it is not complete until the end. Better to have multiple definable LS items for known items of work so there is less chance for disagreement in determining when the contractor should be paid for each one. No change required.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Feb 05 2014

1-1 Backcheck Recommendation Close Comment

Response adequate. Commenter wasn't suggesting a line item for mob/demob but rather putting it in an "all other work category."

Submitted By: [Kathleen Englert](#) (402-995-2038) Submitted On: Feb 12 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500447 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
(Document Reference: Table of Contents - specifications)

Add storm water pollution control at construction sites specification.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Non-concurred

Storm water pollution control is covered by section 01 41 26.00 13 North Dakota Pollutant Discharge Elimination System.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Feb 05 2014

1-1 Backcheck Recommendation Close Comment

Omaha District has a separate specification for this feature, hence the comment.

Submitted By: [Kathleen Englert](#) (402-995-2038) Submitted On: Feb 12 2014

Current Comment Status: **Comment Closed**

5500474 Construction Management Design Memorandum or Report n/a CS113 n/a

Comment Classification: **Public (Public)**

Verify plan view to only station B 128+00 as indicated in the title block.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The beginning and ending stations for both Volume 1 and Volume 2 have been corrected so that the plan view stationing match the titleblocks.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5500477 Construction Management Design Memorandum or Report n/a CS201 n/a

Comment Classification: **Public (Public)**

General. Provide additional stationing data to match the stationing provided in the Title Blocks.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The begining horizontal stationing was changed, the title blocks did not reflect this change at the 35% review. Title blocks have now been corrected and are consistent with profile stationing.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 30 2014

1-1 Backcheck Recommendation Close Comment

Response adequate.

Submitted By: [Kathleen Englert](#) (402-995-2038) Submitted On: Feb 12 2014

Current Comment Status: **Comment Closed**

5500486 Construction Management Design Memorandum or Report n/a CS302. n/a

Comment Classification: **Public (Public)**

Stationing B82+20 is not withing the typical section of B107+00 to B125+

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The stationing on the typical section sheets have been corrected so that they are consistent and match the plan view stationing.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|--------|-----|
| 5500490 | Construction Management | Design Memorandum or Report | n/a | CS302. | n/a |
|---------|-------------------------|-----------------------------|-----|--------|-----|

Comment Classification: **Public (Public)**

B90+00 is outside stationing B127+00 to B130+

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The stationing on the typical section sheets have been corrected so that they are consistent and match the plan view stationing.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500501 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: DDR Section 2.3.](#))

Clarify with project event. Entire project designed except for the entire ring levee.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

DDR Section 2.3 has been modified to clarify that the "with project" condition is the condition in which the diversion project has been built and is in operation.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500510 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
(Document Reference: [DDR Section 4.4](#))

Clarify if the bid schedule would typically include these costs; profits and contingencies. Will these costs be a certain percentage of the contract that is set by contracting. Clarify. Not sure where these costs would be provided by the perspective bidder.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The contractor is free to include any costs they feel are pertinent in their bid prices. As far as the Government Estimate, use of contingencies and prime contractor profit in the IGE is not permitted in accordance with COE regs. Profit for subcontractors is included. Contracting does not set anything with regard to pricing. I will provide the technical lead with more appropriate wording for this paragraph or it will just be deleted. This does not belong in the Civil portion of the DDR anyway.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Feb 05 2014

1-1 Backcheck Recommendation Close Comment

Response adequate.

Submitted By: [Kathleen Englert](#) (402-995-2038) Submitted On: Feb 12 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500513 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
(Document Reference: [DDR Section D.3.1.](#))

Edit second sentence.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

Section has been revised and updated.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500519 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: DDR Section D.4.1.](#))

Provide a reference for the first statement made.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Non-concurred

The overall FMM project test data results is not reference but included directly in the plots found in Attachment D-1. A reference is not needed.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500522 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: DDR Attachment D-1](#))

Provide reference to the plots, data, etc. for the samples, results, data interpretation being described in the text.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Non-concurred

Attachment D-1 provided reference to the data at the end of the write-up. All plots are sufficiently identified that additional references are not needed.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500525 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: DDR Attachment D-1](#))

Summary Tables. In addition to the formation, include the boring ID and depths these samples were collected from.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Non-concurred

Tables 2, 3, and 4 summarize the selected parameters for the formations based on multiple boring locations and depths. It is not appropriate to identify all the samples (by boring and depth) that were used in determining the parameters.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500531 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: DDR Attachment D-1](#))

Section D.4.4. Indicate why the general report rather than site-specific data is being used.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation For Information Only

Permeability tests have not been completed for the FMM project due to the impervious nature of the materials. Instead, permeabilities were back-calculated from consolidation tests. A seepage calibration was completed in order to support the selection of permeabilities. The write-up indicates the parameters are based on the seepage calibration completed as part of the overall project.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------------------|-----------------------------|-----|-----|-----|
| 5500535 | Construction Management | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-------------------------|-----------------------------|-----|-----|-----|

Comment Classification: **Public (Public)**
([Document Reference: DDR Attachment D-1](#))

General. Change Limis to Limits.

Submitted By: [Kathleen Englert](#) (402-995-2038). Submitted On: Jan 27 2014

1-0 Evaluation Concurred

The plots have been revised.

Submitted By: [Kurt Heckendorf](#) (651-290-5411) Submitted On: Jun 10 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------------|-------|-----|-----|-----|
| 5530006 | Real Estate | Other | n/a | n/a | n/a |
|---------|-------------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

[**Critical/Flagged.**]

A general comment concerning utility/facility relocations. ER405-1-12 requires these relocations to be addressed specifically in the Real Estate Plan and an Attorney's Opinion of Compensability prepared by the COE for each relocation, where the local sponsor has the responsibility to perform the relocation pursuant to the conditions of the PCA. What is the plan for incorporating this into the REP and preparing the Attorney's Opinions?

Submitted By: [Rick Noel](#) (402-995-2832). Submitted On: Feb 20 2014

1-0 Evaluation Potential Cost Impact Concurred

A supplemental REP is being drafted at this time as a extension of the base REP for the FMM project that will be specific to the OHB Ring Levee portion of the base project. This supplemental REP will discuss the relocation items and reference Appendix "F" (detailed Relocation Plan) of the NFS products for OHB. Additionally, a AOC is being developed at this time and will be distributed before the final plan is adopted.

Submitted By: [Rodney Peterson](#) (651-290-5397) Submitted On: May 16 2014

1-1 Backcheck Recommendation Close Comment

No further action necessary until supplemental REP is completed.

Submitted By: [Rick Noel](#) (402-995-2832) Submitted On: Aug 06 2014

Current Comment Status: **Comment Closed**

Public / SBU / FOUO

Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.

Comment Report: All Comments

Project: Fargo-Moorhead Metro - OHB

Review: DTR(35%)-OHB-WP43B-Sponsor Review

Displaying 7 comments for the criteria specified in this report.

| Id | Discipline | DocType | Spec | Sheet | Detail |
|-----------|-------------------|----------------|-------------|-----------------|---------------|
| 5490843 | Civil | Plans | n/a | C-101 and CS114 | n/a |

Comment Classification: **Public (Public)**

Update west borrow site area with current data on pond footprint.

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation Concurred

The West Bprrow area has been updated with current data on pond footprint.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 23 2014

1-1 Backcheck Recommendation Close Comment

Changes has been made and comment has been satisfactorily addressed.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-------|-------|-----|-------|-----|
| 5490844 | Civil | Plans | n/a | CS101 | n/a |
|---------|-------|-------|-----|-------|-----|

Comment Classification: **Public (Public)**

Will work limits extend into CR-18 between sta B 0+00 and B 1+00?

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation Concurred

Work Limits have been revised and do not extend into CR-18.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Open Comment

DTR submittal, CS101, still shows work limits extending onto pavement of CR-18. Will leave comment open and review FTR submittal.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

2-0 Evaluation Concurred

Work limits have been revised.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5490845 Civil Plans n/a CS103 and CS109 n/a

Comment Classification: **Public (Public)**

Was there a final decision to include turnouts on levee?

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation For Information Only

As per EM 1110-2-1913, stating "Turnouts should be used to provide a means for the passing of two motor vehicles on a one lane access road on the levee. Turnouts should be provided at intervals of approximately 2500 ft." Phase WP43B has shown two such turnouts.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 23 2014

1-1 Backcheck Recommendation Close Comment

Comment response is acceptable, thanks.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

Current Comment Status: **Comment Closed**

5490846 Civil Plans n/a CS201 n/a

Comment Classification: **Public (Public)**

Sta OB 3+50 to OB 6+00 - Coordinate length of culvert and ditch location with HWY 81 road raise team.

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation Concurred

The ditch location and culvert length has been coordinated with the most up-to-date information received from the HWY 81 road raise team.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

Comment response is acceptable, thanks.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

Current Comment Status: **Comment Closed**

5490847 Civil Plans n/a CS205 n/a

Comment Classification: **Public (Public)**

Sta OB 130+50 to OB 131+00 - Coordinate ditch location with HWY 81 road raise team.

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation Non-concurred

This portion of the project has been removed from the 43B contract.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: May 13 2014

1-1 Backcheck Recommendation Close Comment

Comment response is acceptable, thanks.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-------|-------|-----|-------|-----|
| 5490848 | Civil | Plans | n/a | CS205 | n/a |
|---------|-------|-------|-----|-------|-----|

Comment Classification: **Public (Public)**

Top profile label – this is "Outside Drainage Ditch".

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation Concurred

Profile label has been changed to "OUTSIDE DRAINAGE DITCH".

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jan 23 2014

1-1 Backcheck Recommendation Close Comment

Comment response is acceptable, change has been made. Thanks.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-----------|-------|-----|------|-----|
| 5490850 | Chemistry | Plans | n/a | C205 | n/a |
|---------|-----------|-------|-----|------|-----|

Comment Classification: **Public (Public)**

Sta IB 0+50 to IB 1+50 - Coordinate ditch location with HWY 81 road raise team.

Submitted By: [John Glatzmaier](#) (651-365-8526). Submitted On: Jan 18 2014

1-0 Evaluation Concurred

The ditch location has been coordinated with the most up-to-date information received from the HWY 81 road raise team.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

Comment response is acceptable, thanks.

Submitted By: [John Glatzmaier](#) (651-365-8526) Submitted On: Oct 16 2014

Current Comment Status: **Comment Closed**

Public / SBU / FOUO

Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.

Public / SBU / FOUO

Comment Report: All Comments

Project: Fargo-Moorhead Metro - OHB

Review: DTR(65%)-OHB-WP43B-DQC

Displaying 46 comments for the criteria specified in this report.

| Id | Discipline | DocType | Spec | Sheet | Detail |
|-----------|-------------------|-----------------|-------------|--------------|---------------|
| 5653812 | Survey | Plans and Specs | n/a | n/a | n/a |

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Survey

Everything looks good on the Plans and Specs(survey section).

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

Thank you for your review.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 11 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|--------|-------|-----|-------|-----|
| 5653817 | Survey | Plans | n/a | G-004 | n/a |
|---------|--------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

(**Document Reference: Volume 1**)

Coordinating Discipline(s): Survey

General Notes: Combine note 2 with note 7 with something like "HORIZONTAL COORDINATES BASED ON U.S. SURVEY FEET NAD83 NORTH DAKOTA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE."

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

Revised May 22 2014.

1-0 Evaluation Concurred

General Notes 2 and 7 have been combined.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 11 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|--------|-------|-----|-------|-----|
| 5653819 | Survey | Plans | n/a | G-005 | n/a |
|---------|--------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 1](#))

Coordinating Discipline(s): Survey

Add datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

Revised May 22 2014.

1-0 Evaluation Concurred

Datum note has been added.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|--------|-------|-----|---------------------|-----|
| 5653843 | Survey | Plans | n/a | B-201 through B-204 | n/a |
|---------|--------|-------|-----|---------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 1](#))

Coordinating Discipline(s): Survey

Add Combined Factor and Geoid to the datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

The combined factor and geoid have been added to the datum notes on all boring sheets.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|--------|-------|-----|-------|-----|
| 5653845 | Survey | Plans | n/a | C-101 | n/a |
|---------|--------|-------|-----|-------|-----|

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 1](#))

Coordinating Discipline(s): Survey

Fix datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

The datum note has been corrected.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653849 Survey Plans n/a CS102 n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 1](#))

Coordinating Discipline(s): Survey

Fix datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

The datum note has been corrected.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653867 Survey Plans n/a CS302 n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 1](#))

Coordinating Discipline(s): Survey

Add title to the horizontal scale and relocate the vertical scale title.

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

The title has been added the the horizontal scale and the vertical scale title has been relocated.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653870 Survey Plans n/a CS401 n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 1](#))

Coordinating Discipline(s): Survey

Add datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

Datum note has been added.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653871 Survey Plans n/a G-003 n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 2](#))

Coordinating Discipline(s): Survey

Add datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

Datum note has been added.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653874 Survey Plans n/a B-201 through B-204 n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 2](#))

Coordinating Discipline(s): Survey

Add Combined Factor and Geoid to the datum note

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

the Combined Factor and Geoid has been added to the datum note.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653877 Survey Plans n/a CS102 n/a

Comment Classification: **For Official Use Only (FOUO)**

([Document Reference: Volume 2](#))

Coordinating Discipline(s): Survey

Relocate vertical & horizontal scale titles on levee profile

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

The vertical & horizontal scale titles on levee profile have been relocated.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5653880 Survey Plans n/a CS105 n/a

Comment Classification: **For Official Use Only (FOUO)**

(Document Reference: Volume 2)

Coordinating Discipline(s): Survey

Relocate vertical scale title on levee profile

Submitted By: [Eduardo Torrens](#) (651-290-5596). Submitted On: May 22 2014

1-0 Evaluation Concurred

The vertical scale title on levee profile has been relocated.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5663471 Specifications Specifications 31 05 19 n/a n/a

Comment Classification: **Public (Public)**

Paragraphs 1.1 and 1.2 for Measurement and Payment should be deleted in this Section and included in Section 01 22 00.00 13.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: May 30 2014

1-0 Evaluation Concurred

Paragraphs 1.1 and 1.2 deleted as suggested. M&P paragraphs for geotextile are already in section 01 22 00.00 13.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5663477 Specifications Specifications 35 31 19.00
13 n/a n/a

Comment Classification: **Public (Public)**

Add "Bedding" as a material if required for the project. Also, if required, add testing and placement paragraphs.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: May 30 2014

1-0 Evaluation Concurred

Bedding is not part of the design at this time. R20 riprap will be placed directly on geotextile.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Jun 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|----------------|----------------|-----|-----|-----|
| 5663481 | Specifications | Specifications | n/a | n/a | n/a |
|---------|----------------|----------------|-----|-----|-----|

Comment Classification: **Public (Public)**

There is a snow fence shown on the drawings (Volume 2, sheets CS101 to CS105). Include a specification section for the fencing.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: May 30 2014

1-0 Evaluation Concurred

Specification section for snow fence has been added.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Aug 27 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|----------------|-------|-----|-------|-----|
| 5663483 | Specifications | Plans | n/a | G-002 | n/a |
|---------|----------------|-------|-----|-------|-----|

Comment Classification: **Public (Public)**

Add a legend for the snow fence shown on sheets CS101 to CS105.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: May 30 2014

1-0 Evaluation Concurred

Legend has been updated to include snow fence.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|----------------|-------|-----|-------|-----|
| 5663487 | Specifications | Plans | n/a | CS301 | n/a |
|---------|----------------|-------|-----|-------|-----|

Comment Classification: **Public (Public)**
(Document Reference: Volume 2)

The snow fence should be shown on the Typical Section details.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: May 30 2014

1-0 Evaluation Concurred

The snow fence has been added to the typical sections.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|----------------|-------|-----|-------|-----|
| 5663489 | Specifications | Plans | n/a | CS401 | n/a |
|---------|----------------|-------|-----|-------|-----|

Comment Classification: **Public (Public)**
(Document Reference: Volume 2)

Show a detail(s) of the snow fence.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: May 30 2014

1-0 Evaluation Non-concurred

This detail is of the levee turnout area, it is not intended to include the outside ditch or the snowfence.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|---------------|-----|
| 5670099 | CAD-BIM | Plans | n/a | G-001 (vol 1) | n/a |
|---------|---------|-------|-----|---------------|-----|

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

Turn off the contract number on cover sheet. (lower left corner)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Revised Jun 05 2014.

1-0 Evaluation Concurred

Contract number has placed on a non-plot level.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 18 2014

1-1 Backcheck Recommendation Close Comment

Contract number has been turned off.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------------------------------|-----|
| 5670100 | CAD-BIM | Plans | n/a | G-003 (vol 1) & G-001 (vol 2) | n/a |
|---------|---------|-------|-----|-------------------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

the volume specific cover sheets do not have a signature block or the lower left information (eg solitation, contract, date). Please remove.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Revised Jun 05 2014.

1-0 Evaluation Concurred

Signature blocks have been removed on sheets specified.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 18 2014

1-1 Backcheck Recommendation Close Comment

signature blocks and soliticaion information has been removed from volume specific conver sheets.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|----------------|-----|
| 5670102 | CAD-BIM | Plans | n/a | Index drawings | n/a |
|---------|---------|-------|-----|----------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Volumes 1 & 2 - Reference drawings are not listed.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Reference Drawings have been added to the index.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

1-1 Backcheck Recommendation Close Comment

Reference drawings have been added.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

Current Comment Status: **Comment Closed**

5670103 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

G-005 (vol 1) & G-003 (vol 2: Datum note is missing.

C-101 (vol 1): Datum note is shifted/overlapping text.

CS102 (vol 1): datum note is partial.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Revised Jun 05 2014.

1-0 Evaluation Concurred

Datum note has been added to sheets specified.

Datum note has been corrected on sheets C-101 and CS102.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 18 2014

1-1 Backcheck Recommendation Open Comment

Datum note has been added and updated on CS102 (vol 1) (close)

C-101 (vol 1) not included in PDF to verify.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

2-0 Evaluation Concurred

The .pset for the 95% submittal when updated did not include C-101. C-101 has been added the the current .pset.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Sep 09 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5670114 CAD-BIM Plans n/a B series (volume 1 & 2) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

1 - B-201 (vol 1): left staff has duplicate text.

2 - not all of the logs are shown in plan view. If the logs are not shown in the civil plan view, create/add a boring log plan view for each volume.

3 - the 4 line of the titleblock is not consistent with the set.

4 - volume 2: The fill is turned off.

5 - volume 2: The weights seemed to be turned off.

6 - B-201 (vol 2): There boring log name is missing. Is this 13-9M?

7 - B-201 (vol 2): there is a floating No outside of the border.

8 - the datum note is not completely populated.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

All of the above comments have been addressed and the boring plans for volumes 1 and 2 have been updated accordingly.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

1-1 Backcheck Recommendation Open Comment

- 1 - duplicate text removed. (close)
- 3 - 4th line of titleblock is consistent with the set (close)
- 4 - fill is turned on (close)
- 5 - weights seem to be plotting (close)
- 6 - boring log name is displayed (close)
- 7 - floating text has been removed (close)
- 8 - Datum note is populated.(close)

2 - 13-11M and 13-12M are not displayed in B-101 (vol 1) 13-10M and 13-21M are not displayed in B-101 (vol 2)

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Sep 03 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5670117 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

The control point information is duplicated the general plans. for each volume, recommend that this information is presented in a table only once to reduce the risk of error on updates.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

The control point table located on the sheet layout plan (C-101)has been removed, the table is only shown on the General plan sheet (G-101).

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Open Comment

Volume 2 - the control point table is located on G-101. (close)

Volume 1 - C-101 not included and cannot verify.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 27 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|----------------------|-----|
| 5670124 | CAD-BIM | Plans | n/a | CP101 (both volumes) | n/a |
|---------|---------|-------|-----|----------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

- 1 - design sections & details missing for access road.
- 2 - text shall be uppercase
- 3 - vol 1: text overlapping in profile.
- 4 - vol 2: note is referring to CS111 which doesn't exist.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Typical sections of access roads have been added to drawing set.

Text has been corrected.

Note has been corrected and refers to Sheet CS104.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 18 2014

1-1 Backcheck Recommendation Close Comment

typical sections have been added. Text is uppercase. Overlapping text has been corrected. sheet id updated.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-----------------------------|-----|
| 5670144 | CAD-BIM | Plans | n/a | CS100 series (both volumes) | n/a |
|---------|---------|-------|-----|-----------------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - slope labels and symbols are missing.
- 2 - matchline text is not consistent throughout sets.
- 3 - Volume 1: some of the key plans seem to have the upper plan box clipped at various spots.
- 4 - CS110 (vol 1): incorrect text size under references and sheet id.
- 5 - CS101 (vol 2): PI labels shall be horizontal to the sheet border.
- 6 - CS102 (vol 2): detail 2 text crossing linework and is difficult to read.
- 7 - CS104 (vol 2): snow fence and work limit labels seem to be one. please clarify.
- 8 - access road lines seem to be too light.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Revised Jun 05 2014.

1-0 Evaluation Concurred

1. Slope labels and symbols have been placed.
2. Matchline text has been corrected.
3. Key plans have been re-clipped.
4. Incorrect text size, PI labels, and text placement have been corrected.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Open Comment

- 1 - slope labels and symbols added (close)
 - 3 - key plan shapes updated. (close)
 - 4 - text size corrected (close)
 - 5 - PI labels are horizontal to the sheet. (close)
 - 6 - text crossing corrected (close)
 - 8 - access roads weights updated. (close)
- 2 - most of the matchline text matches. Exception CS105 (vol 2)
- 7 - CS104 (vol 2) - missing work limit and snow fence labels.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

2-0 Evaluation Concurred

- 2 - Matchline text has been corrected on CS105 (vol 2)
- 7 - CS104 (vol 2) - Work limit and snow fence labels have been added.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Nov 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|--------------------------|-----|
| 5670156 | CAD-BIM | Plans | n/a | CS series (both volumes) | n/a |
|---------|---------|-------|-----|--------------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Tying into reaches - the ends should be if representative if the neighboring levee/ditch is in place or not.

Tying into volumes - there should be a line (similar to a match line) for the work going to volume 2 or coming from volume 1.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Revised Jun 05 2014.

1-0 Evaluation Concurred

The end of the reach has been corrected to be representative of the neighboring levee/ditch.

Where the project ties into volumes or other construction contracts, there is a solid line similar to a match line designating that location.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Close Comment

transitions have been updated accordingly.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-------------------------------------|-----|
| 5670161 | CAD-BIM | Plans | n/a | CS series - profiles (both volumes) | n/a |
|---------|---------|-------|-----|-------------------------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

There are several boring logs shown in the profiles that are either not shown in plan view at all, or is shown on a different plan view or not in the B series. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

All boring logs that are not in the 43B contract area have been removed.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Open Comment

If the logs are not represented in the plan area but are to be shown on the profile, it should be noted on the edge of the plan view the direction and approximate location of the log.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|---------------------|-----|
| 5670169 | CAD-BIM | Plans | n/a | CS108/CS501 (vol 1) | n/a |
|---------|---------|-------|-----|---------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

detail 1 on CS501 refers to 43A which is not representative here.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

There is a benching detail at this location it is a mirror image of detail 1, where volume 1 and volume 2 meet. Additional detail 5 has been added to CS501.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment
detail has been updated.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014
Current Comment Status: **Comment Closed**

5670174 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): Civil

volume 1 - There is no profile, design informatin/sections or control table information for the local swale re-route. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Revised Jun 05 2014.

1-0 Evaluation Concurred

Local swale re-route profile is on sheet CS206. Horizontal control table has been added to sheet CS601.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Open Comment

Profile and control information added. (close)

Sections are not indicated in plan view, but I found information section F. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

2-0 Evaluation Concurred

Added CG301 sheet to include temp ditch/spoil cross section.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5670186 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): Civil

There is no design information (sections) or control (location) for the west borrow site/ponding area. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

A horizontal alignment has been added detailing the bottom of the pond. Elevations and slopes have been added to the plan view.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 11 2014

1-1 Backcheck Recommendation Open Comment

Design information and control has been added.

1 - It is labeled slope to draw in between the levee and the west pond. Either a specific slope needs to be identified or a top elevation of the pond.

2 - stationing is missing from CS109 (vol 1)

3 - additional labels should be added to the typical section on CS302 (vol 1). note the elevations between slopes, is there topsoil or seed?, note the other control lines (other edge of west pond and the temporary ditch), duplicate text images, note the bottom width of the ditch compared to the control line.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|----------------------------|-----|
| 5670187 | CAD-BIM | Plans | n/a | CS Profiles (both volumes) | n/a |
|---------|---------|-------|-----|----------------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Existing ground and design ground should meet at the beginning and at the end. If it doesn't, please add a note clarifying.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Existing ground and design ground have been shown to meet at the beginning and end of the profile.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Close Comment

either grounds meet or notes have been added.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5670188 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Profile of 1B drainage missing.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

The Drainage Ditch IB profile has been added to CS204.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

profile ditch 1B added.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5670195 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

typical sections (both volumes):

- 1 - labels missing such as (but not limited to) type of fill, stripping, thickness of stripping, elevations (or where they are found if varies), existing ground.
- 2 - Bottom width of drainage ditches is not defined.
- 3 - indicate the location of the inspection trench from the control line.
- 4 - vol 1: section B lists sta B27+00 to B42+xx. there isn't a ditch after the levee turnout.
- 5 - vol 1: section D is not on CS101.
- 6 - vol 2: section C is not on CS101.
- 7 - vol 2: Section C labels a turnout. should this be detail 2 instead of 3?
- 8 - vol 2: section B is not on CS103.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

All labeling has been included.

Sheet designations and stationing have been corrected on section callouts.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Open Comment

- 1 - labels added (close)
- 3 - inspection trench is defined from control line in the detail (close)
- 5 - section d back reference is updated (close)
- 6 - section c back reference is updated (close)
- 7 - section C detail updated (close)
- 8 - section b back reference is updated (close)

2 - vol 1 - bottom width of drainage ditch is defined. add definition from control line.

4 - vol 1 - review station limits for typical section A, B, & D.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

2-0 Evaluation Concurred

2 - vol 1 - Definition from control line has been added.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Nov 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5670198 CAD-BIM Plans n/a CS401 (both volumes) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

1 - slope symbols and labels are missing.

2 - vol 2: should be detail 2.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Slope symbols and labels have been added to drawing.

This is the first detail for volume 2, therefore is Detail 1.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Open Comment

slope labels and symbols have been added. (close)

2 - vol 2: CS102 has detail 2 labeled and the view title on CS401 is detail 1. the two need to match. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

2-0 Evaluation Concurred

volume 2 detail has been changed to "detail 1".

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5670199 CAD-BIM Plans n/a CS501 (both volumes) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

1 - vol 1: detail 1 is also on CS108.

2 - top of levee and inspection trench details should indicate the control line and the location of the control line (distance to edge).

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

CS108 has been included in the Detail label.
The control line and distance labeling has been added to detail.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Close Comment

detail 1 back referencing updated. detail widths are defined from the control line.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

5670206 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

volume 2 - missing an overall general plan (like G-101 of volume 1).

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

An overall general plan sheet G-101 has been added to volume 2.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

Overall general plan added.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

5670208 CAD-BIM Plans n/a C-101 (vol 2) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

structures seem to be plotting solid. please clarify.(do similar to volume 1)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Planermetric lines have been corrected to show up as screened lines.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

structures plotting has been corrected.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

5670214 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Snow fence (volume 2) - where is the location of the snow fence defined? approximate dimensions, or coordinate/sligment, or station offset? please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

The 20' distance between the toe of the outside drainage ditch and the snow fence has been added to the plan views. This distance has been added to the typical sections.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Open Comment

20' offset added to plans. station limits noted in profile (close)

volume 1 does not show it in the sections. Volume 2 does show it in the sections. be consistent.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

2-0 Evaluation Concurred

Snow fence has been added to sections.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5670217 CAD-BIM Plans n/a CS107 (vol 2) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

If the future retention pons is deisng and constructed by others, why it is shown here?

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Construction contract 43B will be using some of this area for borrow. A smaller area has been deliniated.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 11 2014

1-1 Backcheck Recommendation Open Comment

information to be designed and constructed by others has been removed. (close)

1 - design information (control/section/bottom elevation) is needed.

2 - if this is a possibility, note what are the ranges/options? i.e. is the footprint the same

and the bottom elevation changes with need? or does the bottom elevation stay constant and the southern edge may change?

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

2-0 Evaluation Concurred

Design information has been added including elevations .

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5670219 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

duplicate sheet file names. Add V1 and V2 respectively into the user portion of the filename. (eg FMM43B_CS101---.DGN to FMM43B_CS101-V1.DGN and FMM43B_CS101-V2.DGN)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

V1 and V2 have been added to the filenames.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

filenames have been updated.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Aug 28 2014

Current Comment Status: **Comment Closed**

5670223 CAD-BIM Plans n/a n/a n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

1 - Directory structure - there is a V model file in the civil folder and G model files (and spreadsheets) in the sheets folder. there is a sheet file in the landscape folder.

2 - All files not directly used in the P&s set as a sheet file or a referenced model file (or spreadsheet/image), shall be either deleted or moved to design_info.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

The directory structure has been updated with files placed in the correct folders.

All files not used in the P&S set have been deleted or moved to Design_Info .

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Open Comment

1 - the V model has been updated. There is a C sheet file in the landscape folder.

2 - FMM43B_Siteplan_C-SP----.dgn & FMM43A_snowfence_L-SP----.dgn are referencing 43A files.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Sep 02 2014

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5670226 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

FMM43B_utilites_blank_V-SP----.dgn has more than 20 characters to the left of the AEC filename portion.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

File is not being used - it has been deleted.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jun 09 2014

1-1 Backcheck Recommendation Close Comment

File has been removed.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Sep 02 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5670229 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

reference attachments:

1 - detach all turned off attachments from sheet files (eg CS101 vol 1)

2 - either detach missing reference attachments or include file (eg FMM43B_Profile_C-SP0001.dgn)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

Evaluation not conducted

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5670238 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

Incorrect levels used. the level discipline shall match the filename and the folder. the exception is G- levels are acceptable.:

1 - FMM43B_SITEPLAN_C-SP----.DGN has default, V-, G-, C- levels.

2 - FMM43B_PROFILE_C-SP0001.DGN has C-, B- levels

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Jun 05 2014

1-0 Evaluation Concurred

Levels have been removed or corrected.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Close Comment

Levels have been updated.

Submitted By: [Chris Afdahl](#) (651-290-5712) Submitted On: Sep 02 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-------|-------|-----|-----------------|-----|
| 5673118 | Civil | Plans | n/a | CS104 and CP101 | n/a |
|---------|-------|-------|-----|-----------------|-----|

Comment Classification: **Public (Public)**

([Document Reference: Volume 2](#))

The culvert under Access Road (Main Street) for the inside drainage ditch (IBC) is identified as a 100 LF 35"x24" CSPA culvert on CS104, however, CP101 indicates a 153 LF 35"x24" CSPA. Fix this discrepancy. CS106, North Borrow Area, was not included in the plan set to determine where the culvert and drainage ditch drains to as noted on CS104 for the matchline.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Jun 09 2014

1-0 Evaluation Concurred

Length of culvert is 153', label on CS104 has be corrected.

CS106 has been added to plan set.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Jul 23 2014

1-1 Backcheck Recommendation Close Comment

CP101 (Volume 2) indicates the culvert is 153 lf 49"x33" CSPA. It is no longer labeled on CS104 so the discrepancy is resolved. CS106 North Borrow Site was included and identifies the end of the drainage ditch.

Submitted By: [Christine Moss](#) ((651) 290-5025) Submitted On: Sep 09 2014

Current Comment Status: **Comment Closed**

Public / SBU / FOUO

Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.

Comment Report: All Comments

Project: Fargo-Moorhead Metro - OHB

Review: DTR(65%)-OHB-WP43B-ATR Review

Displaying 14 comments for the criteria specified in this report.

| Id | Discipline | DocType | Spec | Sheet | Detail |
|-----------|-------------------|------------------|-------------|--------------|---------------|
| 5686186 | Structural | Technical Report | n/a | n/a | n/a |

Comment Classification: **For Official Use Only (FOUO)**

There are no structural engineering features. I have no comments.

Submitted By: [Lyle Peterson](#) (402-995-2161). Submitted On: Jun 17 2014

1-0 Evaluation Concurred

Thank you for your comment.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------------|------------------|-----|-----|-----|
| 5690497 | Environmental | Technical Report | n/a | n/a | n/a |
|---------|---------------|------------------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

I have reviewed the reports and have no comments as the NEPA/404(b)(1) documents were not included in the review materials and details of wetland mitigation will be provided in a future submittal.

Submitted By: [Aaron Quinn](#) (402-995-2669). Submitted On: Jun 20 2014

1-0 Evaluation Concurred

Thank you for your review and comment.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

1-1 Backcheck Recommendation Close Comment

Thanks, no further comments

Submitted By: [Aaron Quinn](#) (402-995-2669) Submitted On: Aug 27 2014

Current Comment Status: **Comment Closed**

| | | | | | |
|---------|-----------|-----------------------------|-----|-----|-----|
| 5697737 | Hydrology | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-----------|-----------------------------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: 65% ATR Review Submittal, OHB WP-43B)

Appendix C is the same package submitted for the Sponsor led WP43-D 65% submittal. ATR comments from the 43-D review, pertinent to Appendix C, should be incorporated into this document as well.

Submitted By: [Ron Beyer](#) (402-995-2339). Submitted On: Jun 25 2014

1-0 Evaluation Concurred

It is assumed that you meant the WP43-A 65% submittal, not the WP43-D 65%, which hasn't been submitted yet. Comment #5519143 of that review appears to be the only comment about Appendix C that relates to this work package. Appendix C.3 (interior flood control) was updated by the Sponsor and includes details about the storm water collection system in the "Replacement Area". This should address the outstanding comment.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-----------|-----------------------------|-----|-----|-----|
| 5697738 | Hydrology | Design Memorandum or Report | n/a | n/a | n/a |
|---------|-----------|-----------------------------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**
(Document Reference: 65% ATR Review Submittal, OHB WP-43B)

Please apply consistent pagination to Appendix C.

Submitted By: [Ron Beyer](#) (402-995-2339). Submitted On: Jun 25 2014

1-0 Evaluation Concurred

Appendix C has been renumbered.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------------------|-----------------|-----|-----|-----|
| 5700824 | Landscape Architecture | Planning Report | n/a | n/a | n/a |
|---------|------------------------|-----------------|-----|-----|-----|

Comment Classification: **Public (Public)**
Coordinating Discipline(s): Landscape Architecture

No comments since there information on Landscape and Recreation are to be included in a later submission.

Submitted By: [Michael Jerina](#) (402-995-2202). Submitted On: Jun 27 2014

1-0 Evaluation Concurred

Thank you for your comment.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------|-----------------------------|-----|-----------------|-----|
| 5701135 | Hydraulics | Design Memorandum or Report | n/a | Sect. 1.3, p. 6 | n/a |
|---------|------------|-----------------------------|-----|-----------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Project Management

Last sentence of section, replace Figure 34 with Figure 3.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jun 27 2014

1-0 Evaluation Concurred

This change has been made to the text.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 20 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------|-----------------------------|-----|-----------------|-----|
| 5701152 | Hydraulics | Design Memorandum or Report | n/a | Sect. 2.1, p. 9 | n/a |
|---------|------------|-----------------------------|-----|-----------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Project Management

Please clarify - text indicates that utilities will be filed verified in winter of 2013, has this been done, or does it still remain to be done? Please modify text to reflect current status.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jun 27 2014

1-0 Evaluation Concurred

Houston Moore Group (HMG) has been coordinating the utility relocations as part of Work Package 43-E. This work package is being reviewed separate from WP-43B. Text stating this has been added to Section 2.1 of the DDR.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 20 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------|-----------------------------|-----|--------------------|-----|
| 5701159 | Hydraulics | Design Memorandum or Report | n/a | Sect. 2.3.1, p. 11 | n/a |
|---------|------------|-----------------------------|-----|--------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Hydraulics

Text indicates that design elevation of the levee was determined on basis of wind-wave analysis. Was any riverine uncertainty taken into consideration in determining what the levee profile should be, since our elevations in Table 1 are estimates, not knowns, of what the project conditions will be? Please clarify.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jun 27 2014

1-0 Evaluation Concurred

With the almost 4 mile long overflow embankment along the west edge of the FMM project staging area at elevation 923.0, the modeled staging area elevation for the PMF event is approximately one foot below the OHB levee design elevation of 926.5 (which is based on wind/wave requirements). For this reason, we are certain that wind/wave requirements control over riverine risk and uncertainty requirements.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|------------|-----------------------------|-----|--------------------|-----|
| 5701180 | Hydraulics | Design Memorandum or Report | n/a | second line, p. 12 | n/a |
|---------|------------|-----------------------------|-----|--------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Project Management

Figure 5 should be Figure 4, please correct.

Submitted By: [Roger Kay](#) (402-995-2342). Submitted On: Jun 27 2014

1-0 Evaluation Concurred

This change to the text has been made.

Submitted By: [Lisa Buchli](#) (6512905613) Submitted On: Aug 20 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|--------------|-----------------|-----|-----|-----|
| 5701552 | Geotechnical | Design Analysis | n/a | n/a | n/a |
|---------|--------------|-----------------|-----|-----|-----|

Comment Classification: **Sensitive But Unclassified (SBU)**

([Document Reference: Design Analysis Para 3.1. Levee](#))

Coordinating Discipline(s): Geotechnical

Minimum construction grade is indicated to be 927.6. It appears this elevation includes .5 ft allowance for gravel surfacing and .6 ft allowance for settlement. State assumptions in text used to derive the 927.6 ft elevation.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jun 29 2014

1-0 Evaluation Concurred

Additional text has been added to the DDR main report explaining the minimum construction grade.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Nov 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5701553 Geotechnical Design Analysis n/a n/a n/a

Comment Classification: **Sensitive But Unclassified (SBU)**
([Document Reference: Drawings CS501 - Levee Benching Detail](#))

Coordinating Discipline(s): Geotechnical

Levee Benching Detail. A 2 foot dimension is shown extending from the front vertical face of each bench. Add a note to indicate the relevance of this dimension.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jun 29 2014

1-0 Evaluation Concurred

An additional note has been added stating:

"2' MINIMUM EXCAVATION INTO EXISTING LEVEE IS REQUIRED TO PROVIDE A STRONG BINDING BETWEEN NEW FILL AND EXISTING LEVEE."

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5701554 Geotechnical Design Analysis n/a n/a n/a

Comment Classification: **Sensitive But Unclassified (SBU)**
([Document Reference: Drawings CP101](#))

Coordinating Discipline(s): Geotechnical

Provide additional detail (pipe end sections, invert elevations, profile, riprap for inlet and outlet) for installation of CSPA conduits.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jun 29 2014

1-0 Evaluation Concurred

Pipe information is shown on the ditch profile. The details for installation are included as reference drawings.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5701564 Geotechnical Design Analysis n/a n/a n/a

Comment Classification: **Sensitive But Unclassified (SBU)**

([Document Reference: Drawings CP101](#))

Coordinating Discipline(s): Geotechnical

Show requirements for placement of top soil and gravel for 51st street field access structure.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jun 29 2014

1-0 Evaluation Concurred

A typical section of the field access has been included on the cross section sheets:

Volume 1 - CS302

Volume 2 - CS301

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5701565 Geotechnical Design Analysis n/a n/a n/a

Comment Classification: **Sensitive But Unclassified (SBU)**

([Document Reference: Drawings CP101](#))

Coordinating Discipline(s): Geotechnical

Are requirements different for fill used to construct 51st street field access structure relative to the materials used to construct the levee cross-section.

Submitted By: [Steve Butler](#) (402-995-2244). Submitted On: Jun 29 2014

1-0 Evaluation Concurred

Impervious fill is used both on the levee and the field access, see typical cross sections.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Aug 21 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

Public / SBU / FOUO

Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.

Comment Report: All Comments
Project: Fargo-Moorhead Metro - OHB
Review: FTR-OHB WP 43B-DQC
Displaying 37 comments for the criteria specified in this report.

| Id | Discipline | DocType | Spec | Sheet | Detail |
|-----------|-------------------|----------------|-------------|---------------|---------------|
| 5784368 | CAD-BIM | Plans | n/a | CS101 (vol 1) | n/a |

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

detach unused reference files (or turn the display on)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

Revised Sep 02 2014.

1-0 Evaluation Concurred

Unused reference files have been detached on CS101.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|---------------|-----|
| 5784370 | CAD-BIM | Plans | n/a | G-001 (vol 1) | n/a |
|---------|---------|-------|-----|---------------|-----|

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

date in lower left is MONTH YEAR.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

1-0 Evaluation Concurred

Date has been changed to month and year.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Sep 05 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|----------------------|-----|
| 5784372 | CAD-BIM | Plans | n/a | B-203 (BOTH VOLUMES) | n/a |
|---------|---------|-------|-----|----------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

boring log title text size is inconsistent. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

Evaluation not conducted

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5784375 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Demolition sheets typically show footprint not the full design. Use match lines only if matching with other demolition sheets (CD103)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

Revised Sep 02 2014.

1-0 Evaluation Concurred

Have changed the demolition sheet to include only the footprint. Match lines have been removed.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Sep 05 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5784383 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

temporary ditch and spoil pile:

- 1 - define beginning station of the spoil pile.
- 2 - what is the end slope where the spoil pile begins?
- 3 - Does the spoil pile stay?
- 4 - is there specific seeding requirements?
- 5 - Suggest section F be broken out into temporary ditch with spoil pile and the pond.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

1-0 Evaluation Concurred

- 1 - Beginning station of the spoil pile has been defined.
- 2 - End slope is labeled 1v:5h where the spoil pile begins and ends.
- 3 - Spoil is used to restore temporary ditch to existing conditions.
- 4 - is there specific seeding requirements?
- 5 - Additional cross section has been added to CG series showing only temporary ditch and spoil.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5784386 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

Profiles - provide elevation at each match line (new sheets).

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

1-0 Evaluation Concurred

Elevations have been provided at match lines

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5784389 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - CP101 (vol 1) duplicate work limit text WL 124.
- 2 - CS102 (vol 1) overlapping text on work limit lables.
- 3 - CS105 (vol 1) duplicate reference listing text to the left of the plan view title.
- 4 - CS106 (vol 1) boring log label is not parallel to the bottom of the sheet.
- 5 - G-002 (vol 2) add V1 for VOLUME 1 under abbreviations.
- 6 - G-101 (vol 2) typo it should be C-101 instead of CS101 for the sheet ID on the plan view.
- 7 - CD102 (vol 2)note 2 there is an extra space after fiber. Note 3 tress has a lower case t.
- 8 - CS302 (vol 2) duplicate grid text and floating elevation text.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

Revised Sep 03 2014.

1-0 Evaluation Concurred

- 1.Duplicate work limit text WL 124 has been removed.
- 2.Overlapping text on work limit lables has been removed.
- 3.Duplicate reference listing text has been removed.
- 4.Boring log label orientation has been corrected.
5. V1 for VOLUME 1 has been added to abbreviations.
- 6.Typo C-101 has been corrected.
- 7.Extra space has been removed,lower case t has been changed to upper case.
- 8.Duplicate grid text level has been turned off in reference drawing, floating elevation text has been moved to correct location.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Sep 05 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|---------------|-----|
| 5784402 | CAD-BIM | Plans | n/a | CS103 (vol 1) | n/a |
|---------|---------|-------|-----|---------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - missing section cut symbol for typical section C.
- 2 - verify section call-out in profile. Typical section B is not representative through B 30+00.
- 3 - Where does the 2% change to Slope to drain?

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

1-0 Evaluation Concurred

- 1 - Cut symbol for typical section C has been added.
- 2 - Section call-outs in profile have been checked for consistency with cross section sheets.
- 3 - Additional stations have been added where "2%" changes to "Slope to drain".

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|-----|-----|
| 5784406 | CAD-BIM | Plans | n/a | n/a | n/a |
|---------|---------|-------|-----|-----|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

volume 1 - typical section B is not representative for the full reach as noted on the profiles. Typical section B shows a ditch on both sides. There is a reach that has a ditch only on one side.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

1-0 Evaluation Concurred

Sections have been checked for consistency with profile callouts. Changes have been made.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5784418 CAD-BIM Plans n/a CS108 (vol 1) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - turn of permanent easement lines
- 2 - there is a line from WL200 to WL239. Please clarify.
- 3 - The IBB ditch plan view from IBB17+00 to 18+00 doesn't match the profile.
- 4 -

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 02 2014

1-0 Evaluation Concurred

- 1- Permant easement level has been turned off,
- 2- Line from WL200 to WL239 level has been turned off.
- 3- Ditch levels have been turned on.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5785349 CAD-BIM Plans n/a CS109 - CS111 (vol 1) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - CS109 & CS111:add riprap for ditches entering the pond.
- 2 - CS109:re-route swale control line, the PI-SW2 was missed and the remaining ones are incorrectly labeCS109:led.
- 3 - re-route swale control line, stationing is missing.
- 4 - CS109:text crossing each other WL 162 and WL 158
- 5 - CS109:existing pipe where the re-route swal begins is not shown in plan view.
- 6 - CS109:missing section of swale.
- riprap detail at swale/pipe not shown. may be too detailes. reference CS503 for information.
- 7 - CS109:begin swale re-route call-out: stationing needs to be populated (XX+XX)
- 8 - CS109:Will need a key-in detail for the edge of riprap.
- 9 - not consistent on three sheets how the temporary ditch and spoil pile are labeled or shown. be consistent.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

Revised Sep 03 2014.

Evaluation not conducted

5785356 CAD-BIM Plans n/a CS204 (vol 1) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

where the pond is shown on the profile, there is an arrow to the existing ground line indicating that it is part of the pond. This is confusing. Recommend removing second arrow and relabel to bottom of West Pond.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

1-0 Evaluation Concurred

Second arrow has been removed.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5785368 CAD-BIM Plans n/a CS302 (vol 1) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - typical section D: update station reach. doesn't match plan views.
- 2 - typical section D: duplicate text on grid.
- 3 - typical section E: text crossing dimension and callout
- 4 - typical section E: refer to note with topsoil and seed callout (similar to other sections).
- 5 - section F is shown on one plan view (CS110) There is no station to indicate where the section applies. Suggest adding the symbol to each plan view.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

1-0 Evaluation Concurred

- 1 - Typical section D: Stationing has been updated
- 2 - Duplicate text level has been turned off.
- 3 - Crossing text has been corrected.
- 4 - "SEE NOTE 1" has been added to section E.
- 5 - Stationing has been added to section F.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Nov 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5785371 CAD-BIM Plans n/a CS401 (vol 1 & vol 2) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

- 1 - (vol 1) dimension lines are dashed.
- 2 - detail 3 on CS501 is a section view not a plan view.
- 3 - (vol 2) north arrow is crossing plan box.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

Revised Sep 03 2014.

1-0 Evaluation Concurred

- 1-Dimension line has been corrected.
- 2-Detail callout has been removed and the detail has been added to references.
- 3-North arrow has been shifted.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5785374 CAD-BIM Plans n/a CS502 (vol 1 & vol 2) n/a

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

Scale bar is to be 1" segments on a full size sheet.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

Revised Sep 03 2014.

1-0 Evaluation Concurred

Scale Bar has been removed, Details are labeled as NOT TO SCALE.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Nov 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

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|---------|---------|-------|-----|---------------|-----|
| 5785379 | CAD-BIM | Plans | n/a | CS503 (vol 1) | n/a |
|---------|---------|-------|-----|---------------|-----|

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

- 1 - detail 7 - is it realistic that the riprap key-in is vertical?
- 2 - Need a key-in for the edge of the riprap.
- 3 - label the two views (Plan and profile) respectively in detail 6.
- 4 - the profile view does not match the profile view of the ditch.
- 5 - guessing that the riprap around the culvert is on existing ground. extent the existing slope line throughout the profile.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

1-0 Evaluation Concurred

- 1 - Detail 7 - was discussed with Geotech Engr, leaving it as shown in DQC.
- 2 - Key-in detail has been added.
- 3 - Plan and profile detail callouts have been added.
- 4 - Plan and profile have been changed to be consistent.
- 5 - The existing slope line has been extended throughout the profile.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

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|---------|---------|-------|-----|-----------------------|-----|
| 5785401 | CAD-BIM | Plans | n/a | CP101 (vol 1 & vol 2) | n/a |
|---------|---------|-------|-----|-----------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**
Coordinating Discipline(s): CAD-BIM

label existing ground line and levee in the profile.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

1-0 Evaluation Concurred

Existing ground and levee has been labeled on profile in both volumes.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|---------------|-----|
| 5785671 | CAD-BIM | Plans | n/a | CS101 (vol 2) | n/a |
|---------|---------|-------|-----|---------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

- 1 - profile doesn't match plan view.
- 2 - floating text in profile.
- 3 - verify reference listing. IBB is not on CS202

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

Revised Sep 03 2014.

1-0 Evaluation Concurred

- 1 - Plan and profile have been changed to match.
- 2 - Text in profile has been removed.
- 3 - IBB has been removed from reference listing.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

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|---------|---------|-------|-----|---------------------|-----|
| 5785675 | CAD-BIM | Plans | n/a | CS104/CS301 (vol 2) | n/a |
|---------|---------|-------|-----|---------------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): CAD-BIM

add section tail for section C since the section only shows 1 ditch ad the levee. In turn on the section, shorten the section at -100'.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

1-0 Evaluation Concurred

- Section tail has been added.
- Section has been changed.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|---------|-------|-----|---------------|-----|
| 5785682 | CAD-BIM | Plans | n/a | CS106 (vol 2) | n/a |
|---------|---------|-------|-----|---------------|-----|

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

- 1 - riprap is to be along each edge.
- 2 - define the extent of riprap along the 1:4 slopes.
- 3 - need a riprap keyin
- 4 - missing a matchline
- 5 - There is a stray line near WL221 and WL220. Please clarify.

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

Revised Sep 03 2014.

1-0 Evaluation Concurred

1. Riprap will not be placed during this contract. Final pond will be constructed by others and part of the pump station contract.
2. This sheet is intended to show borrow area, the ditch is shown entirely on sheet CS104.
3. Stray line has been removed.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5785690 CAD-BIM Plans n/a Cs301 (vol 2) n/a

Comment Classification: **For Official Use Only (FOUO)**

Coordinating Discipline(s): Civil

- 1 - typical section D: refer to note with topsoil and seed callout (similar to other sections).
- 2 - typical section D: incorrect grid text height
- 3 - verify stationing for all sections
- 4 - typo for note 1. stripping)

Submitted By: [Chris Afdahl](#) (651-290-5712). Submitted On: Sep 03 2014

1-0 Evaluation Concurred

- 1 - "see note 1" has been added to cross section.
- 2 - Grid text height has been corrected.
- 3 - Stationing has been verified for all sections
- 4 - Typo has been corrected.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 23 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790016 Specifications Specifications BID SCHEDULE & Section 01 22 00.00 13 n/a n/a

Comment Classification: **Public (Public)**

Change the Unit of Measure from LS to JOB per new Contracting requirements. Also, change in Section 01 22 00.00 13 MEASUREMENT AND PAYMENT, Paragraph 1.8 and sub-paragraphs.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

LS changed to JOB in the bid schedule and in the M&P section.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790048 Specifications Specifications BID SCHEDULE & Section 01 22 00.00 13 n/a n/a

Comment Classification: **Public (Public)**

Volume 1 Bid Items 0022 to 0025, Volume 2 Bid Items 0020 and 0021 and Section 01 22 00.00 13 paragraphs 1.9.6 and 1.9.7, Suggest using "Corrugated Steel Pipe Arch" in the title to more closely match the term "CSPA" used on the drawings.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Changed the bid items in the bid schedule and the Measurement and Payment section to Corrugated Steel Pipe Arch to match the drawings as suggested.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790055 Specifications Specifications Section 01 22 00.00 13 n/a n/a

Comment Classification: **Public (Public)**

Should include a M&P paragraph for the bid item 0009 North Pond Excavation as shown in the Volume 2 Bid Schedule.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

M&P paragraph for North Pond Excavation has been added.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 15 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

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|---------|----------------|----------------|------------------------|-----|-----|
| 5790063 | Specifications | Specifications | Section 01 45 02.00 10 | n/a | n/a |
|---------|----------------|----------------|------------------------|-----|-----|

Comment Classification: **Public (Public)**

Paragraph 1.6.5: In two places there is a reference to "Section 01 32 01.00 10". This should be "Section 01 32 01.00 13".

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Changed the 10 to 13 as suggested in both locations.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

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|---------|----------------|----------------|------------------|-----|-----|
| 5790072 | Specifications | Specifications | Section 31 05 19 | n/a | n/a |
|---------|----------------|----------------|------------------|-----|-----|

Comment Classification: **Public (Public)**

Part 2: A product material specification for "Geotextile Type 2" needs to be added.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Material specification for Geotextile Type 2 added.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

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|---------|----------------|----------------|------------------|-----|-----|
| 5790075 | Specifications | Specifications | Section 32 31 30 | n/a | n/a |
|---------|----------------|----------------|------------------|-----|-----|

Comment Classification: **Public (Public)**

Paragraph 2.8: Any requirement for the Rail Bracket Hardware to be galvanized? (Also the second sentence should start out capitalized)

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Added a requirement for the rail brackets to be powder coated to match the posts. This is the standard manufacturing process and will not result in a special order for this fence. Corrected the capital letter pointed out also.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790083 Specifications Specifications Section 33 40 01 n/a n/a

Comment Classification: **Public (Public)**

Paragraphs 3.4.1 and 3.4.1.1: Suggest changing "Metal" to "Steel" to coordinate on how the pipe is referred to with other references and drawings.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Changed "Metal" to "Steel" as suggested.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790088 Specifications Specifications n/a n/a n/a

Comment Classification: **Public (Public)**

There are details of the metal gate shown on the drawings (Sheet CS502). Suggest a specification section for Miscellaneous Metals be included. I did not see in the M&P section any place this gate is paid for. Should there be a bid schedule and M&P item for this?

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Added section 05 50 19 ACCESS GATES from the FMM Reach 5 P&S. Added a bid item and M&P paragraph also.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790092 Specifications Plans n/a n/a n/a

Comment Classification: **Public (Public)**

There does not appear to be any round corrugated steel pipe shown on the drawings. Suggest deleting Reference Drawing sheet "Round Corrugated Steel Pipe Culverts and End Sections".

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Round Corrugated Steel Pipe Culverts and End Sections reference has been removed.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Nov 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5790093 Specifications Specifications n/a n/a n/a

Comment Classification: **Public (Public)**

Minor Courtesy Comments have been provided to the Specification Engineer.

Submitted By: [Jeffrey Hansen](#) (651-290-5649). Submitted On: Sep 08 2014

1-0 Evaluation Concurred

Thank you for your review. Courtesy comments have been incorporated.

Submitted By: [Richard Femrite](#) (651-290-5550) Submitted On: Nov 14 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5792092 Civil Design Memorandum or Report n/a n/a n/a

Comment Classification: **Public (Public)**

(Document Reference: [FTR-DQC_DDR_OHB_WP-43B_140826.pdf](#) & [FTR-DQC_DDR_OHB_WP43B_Appendix_E_Civil_140826.pdf](#))

The Design Documentation Report (DDR) ([FTR-DQC_DDR_OHB_WP-43B_140826.pdf](#)) and ([FTR-DQC_DDR_OHB_WP43B_Appendix_E_Civil_140826.pdf](#)) were reviewed and courtesy comments were provided to the PDT for consideration in incorporating into the BCOE documents.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Sep 09 2014

1-0 Evaluation Concurred

Thank you for your comments. They have been incorporated.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Nov 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5792174 Civil Plans n/a CS104, Volume 1 n/a

Comment Classification: **Public (Public)**

It is not clear if the existing drainage ditch at STA B34+60 drains towards or away from the ring levee outside ditch. It appears as if a field drain inlets may need to be considered at STA OBA 41+00.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Sep 09 2014

1-0 Evaluation Concurred

A field drain has been added to plan view and the detail sheet has been added to drawing set.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5792233 Civil Plans n/a CS108, Volume 1 n/a

Comment Classification: **Public (Public)**

It is not clear if the existing field drainage near STA B 72+90 at STA IBB 16+90 per CS205 flows towards or away from the ring levee inside drainage ditch and whether a field inlet will be required.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Sep 09 2014

1-0 Evaluation Concurred

The flow of the existing drainage goes towards the inside ditch. A field inlet has been added.

Submitted By: [Renee McGarvey](#) (651-290-5640) Submitted On: Nov 16 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

5792763 Civil Plans n/a CS301, Volume 1 and Volume 2 n/a

Comment Classification: **Public (Public)**

The control for the vertical elevation and horizontal location of the toe of the levee and the top of the drainage ditch is not clear. Does the toe of the levee match existing ground and then a 20' bench at 2% cross slope is used to set the top of the drainage ditch? Provide control for this bench area to make sure positive drainage away from the levee toe is maintained.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Sep 09 2014

1-0 Evaluation Concurred

A note has been added to all cross section sheets stating "THE BENCH BETWEEN THE LEVEE AND THE DRAINAGE DITCH SHALL SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE LEVEE TOE." The drainage ditches will be constructed prior to the levee therefore the top of the ditch matches existing ground, the 2% slope will slope up the the levee from the top of ditch.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Nov 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------|-------|-----|---|-----|
| 5792803 | Civil | Plans | n/a | CS106 and CS302, Volume 2-North Borrow Site | n/a |
|---------|-------|-------|-----|---|-----|

Comment Classification: **Public (Public)**

Provide horizontal control and a vertical elevation for the north borrow site excavation limits.

The local drainage plan (per Appendix C_H&H w/i DDR) indicates this area is to be a future permanent pond location for the inside drainage ditch to outlet.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Sep 09 2014

1-0 Evaluation Concurred

Borrow site horizontal and vertical control has been added. The permanent pond shall be constructed by others.

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Oct 22 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

| | | | | | |
|---------|-------|-------|-----|---|-----|
| 5792843 | Civil | Plans | n/a | CS104, CS105, CS109, CS110, CS302, Volume 1-West Pond, Temp Swale | n/a |
|---------|-------|-------|-----|---|-----|

Comment Classification: **Public (Public)**

The control for the vertical elevation and horizontal location of the toe of the levee and the top of the west pond and top of the temporary swale is not clear. Provide control for this area to make sure positive drainage away from the levee toe is maintained. Plan view indicates slope to drain, however, it appears that the toe and top match existing ground. Area needs to be designed to ensure positive drainage towards the ditch and away from the levee toe.

Submitted By: [Christine Moss](#) ((651) 290-5025). Submitted On: Sep 09 2014

1-0 Evaluation Concurred

A "Fill" cell has been added to the plan views showing the slope direction. A note has been added to CS302 stating "THE AREA BETWEEN THE LEVEE AND THE WEST POND SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE LEVEE TOE."

Submitted By: [Edith Pang](#) (651-290-5552) Submitted On: Nov 04 2014

Backcheck not conducted

Current Comment Status: **Comment Open**

Public / SBU / FOUO

Patent 11/892,984 [ProjNet](#) property of ERDC since 2004.
