

**From:** [Nikhil Khedekar](#)  
**To:** [Jenq, Sean](#)  
**Subject:** RE: ODOT Project Phase 6A - Resubmittal of Stage 2  
**Date:** Monday, March 8, 2021 5:23:00 PM  
**Attachments:** [image001.png](#)

---

**[EXTERNAL MESSAGE]** This message has originated outside of ms consultants. Do not open attachments or click on links from unknown or unexpected senders.

---

Sean,

Portion of SGB and porous backfill will overlap just behind the abutment. In this case, placement of SGB takes precedence and the limits of porous backfill should be adjusted (reduced) to avoid the interference with the placement of wall straps. We received similar comment on one other project and this was the disposition.

Thanks.

Nikhil C. Khedekar, Ph.D., P.E. | Vice President - Engineering And Planning

**Resource International Inc.**

T: 614.797.9478 Direct

Cell: 614.800.9891

E-mail: [nikhilk@resourceinternational.com](mailto:nikhilk@resourceinternational.com)

---

**From:** Jenq, Sean [mailto:[sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)]  
**Sent:** Monday, March 08, 2021 5:18 PM  
**To:** Nikhil Khedekar <[nikhilk@resourceinternational.com](mailto:nikhilk@resourceinternational.com)>  
**Subject:** RE: ODOT Project Phase 6A - Resubmittal of Stage 2

Thanks. Nikhil.

**Sean Jenq, PhD, PE**

**[ms consultants, inc](#)** | engineers, architects, planners  
2221 Schrock Rd., Columbus, Ohio 43229

p: 614-898-7100

f: 614-898-7570

e: [sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)

Connect: [Facebook](#) | [Twitter](#) | [LinkedIn](#) | [ms Blog](#)



[Sign up to receive our email newsletter](#)

Notice of Confidentiality: \*\*This e-mail and any of its attachments may contain proprietary information, which is privileged, confidential, or subject to copyright belonging to ms consultants, inc. This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and/or attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout.\*\*

---

**From:** Nikhil Khedekar [<mailto:nikhilk@resourceinternational.com>]

**Sent:** Monday, March 8, 2021 5:12 PM

**To:** Jenq, Sean <[sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)>

**Subject:** FW: ODOT Project Phase 6A - Resubmittal of Stage 2

**[EXTERNAL MESSAGE]** This message has originated outside of ms consultants. Do not open attachments or click on links from unknown or unexpected senders.

---

See below regarding wall E4 comment. Thanks.

Nikhil C. Khedekar, Ph.D., P.E. | Vice President - Engineering And Planning

**Resource International Inc.**

T: 614.797.9478 Direct

Cell: 614.800.9891

E-mail: [nikhilk@resourceinternational.com](mailto:nikhilk@resourceinternational.com)

---

**From:** Nikhil Khedekar [<mailto:nikhilk@resourceinternational.com>]

**Sent:** Monday, January 18, 2021 9:11 AM

**To:** 'Jenq, Sean' <[sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)>; Brian Trenner <[briant@resourceinternational.com](mailto:briant@resourceinternational.com)>; 'Zangmeister, Ted' <[tzangmeister@msconsultants.com](mailto:tzangmeister@msconsultants.com)>

**Cc:** 'Arnold, Dale' <[DArnold@msconsultants.com](mailto:DArnold@msconsultants.com)>

**Subject:** RE: ODOT Project Phase 6A - Resubmittal of Stage 2

Sean,

See attached plans for MSE Wall E4 alignment which wraps around the forward abutment of 1358L. Wall alignment has been adjusted to remove the acute corner. This should address panel stability and strap placement comment. Unclear about the porous backfill comment. I think Jacobs should bring in the latest wall base and delineate the porous backfill and SGB limits to see if there is an interference.

Thanks.

Nikhil C. Khedekar, Ph.D., P.E. | Vice President - Engineering And Planning

**Resource International Inc.**

T: 614.797.9478 Direct

Cell: 614.800.9891

E-mail: [nikhilk@resourceinternational.com](mailto:nikhilk@resourceinternational.com)

---

**From:** Jenq, Sean [<mailto:sjenq@msconsultants.com>]  
**Sent:** Saturday, January 16, 2021 1:21 PM  
**To:** Brian Trenner <[briant@resourceinternational.com](mailto:briant@resourceinternational.com)>; Zangmeister, Ted  
<[tzangmeister@msconsultants.com](mailto:tzangmeister@msconsultants.com)>  
**Cc:** Arnold, Dale <[DArnold@msconsultants.com](mailto:DArnold@msconsultants.com)>; Nikhil Khedekar  
<[nikhilk@resourceinternational.com](mailto:nikhilk@resourceinternational.com)>  
**Subject:** RE: ODOT Project Phase 6A - Resubmittal of Stage 2

Thanks for such a quick response. Brian. I will wait for Nikhil's response on Comment No. 1087 among other things before getting back to Jacobs.

## Sean Jenq, PhD, PE

**ms consultants, inc** | engineers, architects, planners  
2221 Schrock Rd., Columbus, Ohio 43229

p: 614-898-7100  
f: 614-898-7570  
e: [sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)  
Connect: [Facebook](#) | [Twitter](#) | [LinkedIn](#) | [ms Blog](#)



[Sign up to receive our email newsletter](#)

Notice of Confidentiality: \*\*This e-mail and any of its attachments may contain proprietary information, which is privileged, confidential, or subject to copyright belonging to ms consultants, inc. This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and/or attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout.\*\*

---

**From:** Brian Trenner <[briant@resourceinternational.com](mailto:briant@resourceinternational.com)>  
**Sent:** Saturday, January 16, 2021 11:57 AM  
**To:** Jenq, Sean <[sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)>; Zangmeister, Ted <[tzangmeister@msconsultants.com](mailto:tzangmeister@msconsultants.com)>  
**Cc:** Arnold, Dale <[DArnold@msconsultants.com](mailto:DArnold@msconsultants.com)>; Nikhil Khedekar  
<[nikhilk@resourceinternational.com](mailto:nikhilk@resourceinternational.com)>  
**Subject:** RE: ODOT Project Phase 6A - Resubmittal of Stage 2

**[EXTERNAL MESSAGE]** This message has originated outside of ms consultants. Do not open attachments or click on links from unknown or unexpected senders.

---

Sean,

I have forwarded your request on to Nikhil in our design group. The comment you are referencing below is in regards to the geometric design of the wall, which our design group is handling. With regard to the MSE walls, below is a brief summary of the design approach.

- Wall E2: Traditional MSE wall for entire length. Ground improvement will be required from Sta. 201+62.8 to 202+02.72 per OGE comments, with strap length at 0.7H. The remainder of the wall will not require ground improvement. Length of reinforcement to be determined upon completion of updated calculations.
- Wall E4: Traditional MSE wall for entire length with ground improvement. Strap length will be 0.7H. Ground improvement will also be required under all new embankment placed along this ramp.
- Wall E9: Traditional MSE wall for entire length. Ground improvement is not required. Strap length will be 0.9H to meet all stability requirements.
- Wall E7: Lightweight cellular concrete wall for entire length. Ground improvement is not required. Cellular concrete will extend east from the wall to the Geofoam section. Geofoam extends over the Franklin Main. Soil fill will be placed east the Geofoam section.

I believe our design group has provided updated plans to ms. Once we have finalized our revised MSE wall calculations, the plan notes will be updated.

Thanks!

Brian Trenner  
Resource International, Inc.  
317-536-5768

---

**From:** Jenq, Sean <[sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)>  
**Sent:** Saturday, January 16, 2021 10:10 AM  
**To:** Zangmeister, Ted <[tzangmeister@msconsultants.com](mailto:tzangmeister@msconsultants.com)>; Brian Trenner <[briant@resourceinternational.com](mailto:briant@resourceinternational.com)>  
**Cc:** Arnold, Dale <[DArnold@msconsultants.com](mailto:DArnold@msconsultants.com)>  
**Subject:** FW: ODOT Project Phase 6A - Resubmittal of Stage 2

Good morning, Ted:

I know that Rii has been work with us on revising the geometries and extents of the MSE walls. Can you let me know the status of the questions MSE walls? If the configuration of the walls are final, can you coordinate with Jacobs about update of the latest basemap files.

Good morning, Brian:

Can you provide us your response to review comment No. 1087 and whether the comment has been addressed? It will be helpful if you can also provide a brief summary about the changes of MSE walls near these two bridges since last submission.

Please let me know if you have any questions. Thanks.

## Sean Jenq, PhD, PE

**ms consultants, inc** | engineers, architects, planners  
2221 Schrock Rd., Columbus, Ohio 43229

p: 614-898-7100

f: 614-898-7570

e: [sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)

Connect: [Facebook](#) | [Twitter](#) | [LinkedIn](#) | [ms Blog](#)



[Sign up to receive our email newsletter](#)

Notice of Confidentiality: \*\*This e-mail and any of its attachments may contain proprietary information, which is privileged, confidential, or subject to copyright belonging to ms consultants, inc. This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and/or attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout.\*\*

---

**From:** Stachler, Douglas/COL <[Douglas.Stachler@jacobs.com](mailto:Douglas.Stachler@jacobs.com)>

**Sent:** Friday, January 15, 2021 9:14 AM

**To:** Jenq, Sean <[sjenq@msconsultants.com](mailto:sjenq@msconsultants.com)>

**Cc:** Centers, Jason/CIN <[Jason.Centers@jacobs.com](mailto:Jason.Centers@jacobs.com)>; Arnold, Dale <[DArnold@msconsultants.com](mailto:DArnold@msconsultants.com)>

**Subject:** ODOT Project Phase 6A - Resubmittal of Stage 2

**[EXTERNAL MESSAGE]** This message has originated outside of ms consultants. Do not open attachments or click on links from unknown or unexpected senders.

Good Morning Sean,

I wanted to reach out to you to coordinate on the resubmittal of the Stage 2 plans for the Phase 6A project. As you know we (CH2M now Jacobs) is responsible for delivering two bridges (FRA-70-1358L & FRA-70-1373L). We've been working to assemble all necessary documents for this resubmittal.

Attached is the review comment form that we received after the initial Stage 2 submittal. The form includes our responses to the ODOT comments. Note that the comment form which ms sent to us included ODOT comments on Bridge FRA-70-1373B. That bridge was included in the Phase 6R project, so I just denoted that in my comment responses. I'm thinking you can delete the comments for FRA-70-1373B from the form, but will leave that up to you. I also want to call your attention to Comment No. 1087 as it relates to the alignment / constructability of the MSE Wall. I'm guessing this comment has already been shared with your MSE Wall design team, but wanted to call attention to it so it isn't overlooked.

We have completed all updates to the plans for both bridges (70-1358L & 70-1373L); however, we

are having issues with the basemap files that are being referenced into our site plan sheets (Jason Centers sent an email earlier this morning where he outlined issues that we are seeing). I have attached PDF files of the plot set for both bridges so you can complete the other QC review of the plans while we wait to get the basemap reference file issue worked out. I've also included a copy of the ODOT Stage 2 submittal checklist for both bridges as I know that will also need to be submitted to ODOT with the Stage 2 re-submittal.

When is the Stage 2 resubmittal for Phase 6A being sent to ODOT?

Please feel free to call my cell if you think any of this would be easier to talk through on the phone rather than trade emails.

**Doug Stachler, P.E.** | [Jacobs](#) | Manager of Projects  
O: 614.825.6754 | M: 614.271.9209 | [Douglas.Stachler@jacobs.com](mailto:Douglas.Stachler@jacobs.com)  
Two Easton Oval, Suite 500 | Columbus, OH 43219 | United States

---

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.