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E & A CONSULTING GROUP, INC.

Engineering Answers

Zachary A. Jilek, CPESC, CISEC
 Environmental Services Dept. Manager

| | | |
|-------------------------|---|--------------|
| Inspector: Aaron Tulley | E&A - P2018.109.002 | Stage |
| | Gallery 23 East | |
| Project Name: | CSW-201702253 (Mass Grading) CSW-210802622 (Intersection Improvements) CSW-201802623 (Water Main Improvements) CSW-201802624 (East Lift Station) | 2 |
| For Week Ending: | 12/28/2019 | |
| Project Location: | County Road U and Lincoln Highway- Fremont, NE (Dodge County) | 68025 |

| | Gallery 23 East | Water Main Project | Lift Station & Force Main | Intersection Impr. |
|----------------------|-----------------|--------------------|---------------------------|--------------------|
| Grading: | 95% | 100% | 99% | 3% |
| Sanitary Sewer: | 97% | N/A | 100% | N/A |
| Storm Sewer: | 95% | N/A | N/A | N/A |
| Paving: | 99% | N/A | N/A | 0% |
| Seeding: | 1% | 100% | 99% | 0% |
| Utilities: | 89% | N/A | N/A | N/A |
| Overall Development: | 29% | 100% | 99% | 5% |

| RAIN FALL AMOUNTS | Amount in inches | Date inspected | Weather Conditions | |
|-------------------|------------------|----------------|--------------------|---------------|
| | | | | Week 1 |
| Sunday: | 0.05" | | | |
| Monday | 0.00" | | | |
| Tuesday | 0.00" | | | |
| Wednesday | 0.00" | | | |
| Thursday | 0.00" | | | |
| Friday | 0.00" | | | |
| Saturday | 0.00" | | | |
| | | | | Week 2 |
| Sunday: | 0.00" | | | |
| Monday | 0.00" | 12/16/19 | Snow 23/18 | |
| Tuesday | 0.00" | | | |
| Wednesday | 0.00" | | | |
| Thursday | 0.00" | | | |
| Friday | 0.13" | | | |
| Saturday | 1.60" | | | |
| | | | | Week 3 |
| Sunday: | N/A | | | |
| Monday | N/A | | | |
| Tuesday | N/A | | | |
| Wednesday | N/A | | | |
| Thursday | N/A | | | |
| Friday | N/A | | | |
| Saturday | N/A | | | |

Complaints:

Construction Sequencing:
 Which portion(s) (i.e. drainage basins) of the site have had a temporary or permanent cessation of grading, earthwork, or ground disturbance in the last 14 days?

Grading has begun on Gallery 23 East project in Phases I, II, and III (8/2017). Major cessation of grading has occurred on Gallery 23 East project and minor grading will occur on Gallery 23 East (8/30/2018). Grading for water installation on NW perimeter and along Rd 25 (10/23/18). Grading has temporarily ceased (1/10/19). Grading in the NE corner of site for sanitary installation (4/5/19). Grading for roads (6/4/19). Grading for utilities, storm, and roads throughout project (6/17/19). Excavation along southwest portion ROW for gas installation (6/18/19). Excavation in the southeast portion of the site for utilities (6/18/19). Excavation throughout the site for gas installation (6/24/19). Excavation for storm sewer (7/16/19) Trenching for utility installation throughout the site and excavation for sanitary lift station installation on the west side of the lake (8/26/19). Fine grading throughout the site in preparation for paving (09/09/19). Excavation in the northeast corner of the site for culvert installation (09/19/19). Trenching/excavation in the southeast portion of the site for utility installation (10/22/19). Trenching throughout site for utility installation (11/18/19).

Lift Station and Sanitary Force Main grading/excavation began (7/23/2018). Minor grading to be completed at a later date.

Water improvements grading/excavation has begun (10/9/18). Grading has temporarily ceased (1/10/19). Grading occurred in between Hwy 30 and Menards to still water main between last inspection (2/7/19) and current inspection (2/20/19), but grading had ceased at time of inspection. Grading along Hwy 275 (4/5/19). Grading for water main project has ceased (4/19/19)

Highway 30 intersection improvements has begun for culvert installation (10/02/19).

Which portion(s) (i.e. drainage basins) of the site do not have grading, earthwork, or ground disturbance scheduled in the next 14 days? :

Grading has begun on Gallery 23 East project in Phases I, II, and III (8/2017). Major cessation of grading has occurred on Gallery 23 East project and minor grading will occur on Gallery 23 East (8/30/2018). Grading for water installation on NW perimeter and along Rd 25 (10/23/18). Grading has temporarily ceased (1/10/19). Grading in the NE corner of site for sanitary installation (4/5/19). Grading for roads (6/4/19). Grading for utilities, storm, and roads throughout project (6/17/19). Excavation along southwest portion ROW for gas installation (6/18/19). Excavation in the southeast portion of the site for utilities (6/18/19). Excavation throughout the site for gas installation (6/24/19). Excavation for storm sewer (7/16/19) Trenching for utility installation throughout the site and excavation for sanitary lift station installation on the west side of the lake (8/26/19). Fine grading throughout the site in preparation for paving (09/09/19). Excavation in the northeast corner of the site for culvert installation (09/19/19). Trenching/excavation in the southeast portion of the site for utility installation (10/22/19). Trenching throughout site for utility installation (11/18/19).

Lift Station and Sanitary Force Main grading/excavation began (7/23/2018). Minor grading to be completed at a later date.

Water improvements grading/excavation has begun (10/9/18). Grading has temporarily ceased (1/10/19). Grading occurred in between Hwy 30 and Menards to still water main between last inspection (2/7/19) and current inspection (2/20/19), but grading had ceased at time of inspection. Grading along Hwy 275 (4/5/19). Grading for water main project has ceased (4/19/19)

Highway 30 intersection improvements has begun for culvert installation (10/02/19).

What temporary or permanent stabilization measures listed in this section are being implemented?

Existing vegetation (8/30/2018). Seeding and matting in ditch for sanitary lift main (9/19/18). Seeding around banks of E side of lake (11/6/18).

Summary Questions:

Are approved entrances and adjacent streets being maintained adequately?

No - See BMP Section

Are receiving waters adjacent to the project free of any significant signs of erosion or sediment that would be associated with the construction activity?

Yes

Checklist Questions:

Are waste materials (concrete, construction material, hazardous, etc.) being managed properly?

No - See Findings Section and BMP Section

Is dust associated with the construction activity adequately controlled on the site?

Yes

Comments:

Comments:

The site was active during the last inspection for the Gallery 23 East project. Building Construction has begun in northeast corner of the site as of the 8/26/19 inspection.

Lift Station and Sanitary Force Main projects are nearing completion. Work is occurring on the southeast intersection of County Road U and the project. County Road U Blvd and East 16th Street ditches will be stabilized in the coming weeks as of 8/30/2018. E&A will continue to monitor. Street ditches were seeded and matted prior to inspection on 9/19/18. Due to the biodegradable nature of the BMPs, repair will not be recommended at this time. E&A will monitor for final stabilization.

Water Improvements project has begun as of last inspection. Dirt piles from water main improvement project are being moved over to Gallery 23 East project in low areas. Dirt will be spread at a later date (2/7/19). Water project was inactive during last inspection. All HR Bookstrom equipment was removed from the site prior to inspection on 5/20/19. Vegetative cover has improved as of the 8/26/19 inspection. Water Improvements project is complete.

Highway 30 intersection improvements project active as of the last inspection for culvert installation (09/30/19). E&A will monitor the need for downstream BMPs.

Findings / Corrective Actions (Date):

Findings / Corrective Actions (Date):



1. See BMP section for required maintenance.
2. Diesel fuel tanks need to be bermed on site as of 8/30/2018. Pruss Excavation will be informed to complete by 9/6/2018. Not done as of last inspection. Thompson Construction was informed to complete by 10/16/18. Not done as of last inspection. Thompson Construction was reminded on 3/27/19, 5/3/19, 6/18/19, 8/26/19.

| Unique Name | Type | Location | Projected Install Date | Status | Maintenance |
|------------------------|-----------------------|--------------------|------------------------|---------|-------------|
| Gallery 23 East | | | | | |
| CE 1 | Construction Entrance | County Road Blvd U | | Removed | |

| | | | | | |
|---------------------------|--|--------------------------------------|------------|---------|-----|
| Current Condition: | Removed - Thompson Construction removed the construction entrance in preparation for paving prior to inspection on 9/9/19. | | | | |
| CE 2 | Construction Entrance | County Road 25/Highway 30 | | Removed | |
| Current Condition: | Removed - Pruss was removing the construction entrance during inspection on 6/18/19 in preparation for paving. | | | | |
| CP #1 | Culvert protection | Central portion of site | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Culvert protection will be installed at a later date. | | | | |
| CP #2 | Culvert protection | Southeast corner | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Culvert protection will be installed at a later date. | | | | |
| CW | Concrete Washout | Northeast corner of site | | Removed | |
| Current Condition: | Removed - The concrete washout pits were removed prior to inspection on 10/21/19. No paving is underway at this time. E&A will monitor the need for reinstallation. | | | | |
| DW #1 | Ditch Wattle Checks | Middle Central | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Ditch wattle checks will be installed when grading has ended. | | | | |
| DW #2 | Ditch Wattle Checks | Southwest corner | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Ditch wattle checks will be installed when grading has ended. | | | | |
| DW #3 | Ditch Wattle Checks | Southeast corner | 8/30/2018 | Active | No |
| Current Condition: | Good Condition - Wattles checks were installed on the southeast side prior to 8/30/2018. | | | | |
| DD #1 | Diversion Ditch | NW Corner of Lake | 11/6/2018 | Active | No |
| Current Condition: | Good Condition - After further evaluation, as of 1/10/19 inspection, wattles/checks will no longer be recommended. | | | | |
| DD #2 | Diversion Ditch | W side of Lake | | Removed | |
| Current Condition: | Removed - Thompson Construction removed the diversion ditch prior to inspection on 9/19/18. | | | | |
| DD #3 | Diversion Ditch | SW corner of lake | | Removed | |
| Current Condition: | Removed - Thompson Construction removed the diversion ditch prior to inspection on 9/19/18. | | | | |
| DD #4 | Diversion Ditch | S Side of lake | | Removed | |
| Current Condition: | Removed - Thompson Construction removed the diversion ditch prior to inspection on 9/19/18. | | | | |
| DD #5 | Diversion Ditch | E side of lake | | Removed | |
| Current Condition: | Removed - Thompson Construction removed the diversion ditch prior to inspection on 9/19/18. | | | | |
| DD #6 | Diversion Ditch | NE corner of lake | 8/30/2018 | Active | No |
| Current Condition: | Good Condition - After further evaluation, as of 1/10/19 inspection, wattles/checks will no longer be recommended. | | | | |
| DD #7 | Diversion Ditch | N side of lake | 9/25/2018 | Active | No |
| Current Condition: | Good Condition - Due to grade of the lot and an access road being installed, silt fence or straw bale checks will not be recommended at this time. E&A will monitor. | | | | |
| EB #2 | Erosion Blanket | Northeast corner | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Erosion control matting and seeding will be installed when grading has ended. | | | | |
| EB #3 | Erosion Blanket | Around Lake (Outlot B) | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Erosion control matting and seeding will be installed when grading has ended. | | | | |
| IP 1 | Inlet Protection | Area Inlet in SE portion of the site | 8/19/2019 | Pending | Yes |
| Current Condition: | <p>Pending -</p> <p>Inlet protection should be installed</p> <p>Jim Hammitt was informed to inform Thompson Construction to complete by 8/19/19. Not done as of the last inspection. Jim Hammitt was informed to remind Thompson Construction on 10/7/19. Thompson Construction was reminded on 11/18/19.</p> | | | | |
| IP 2 | Curb Inlet protection | W Curb inlet on Christine Dr | 11/25/2019 | Pending | Yes |
| Current Condition: | <p>Pending - Due to construction on the villas being the main source of dirt in the streets/need for inlet protection, the builder of the Villas will now be the responsible party for installation of inlet protection.</p> <p>Curb inlet protection should be installed</p> <p>Thompson Construction was informed to complete by 11/25/19. Not done as of the last inspection. The Home Company was informed to complete by 12/09/19. Not done as of the last inspection.</p> | | | | |
| IP 3 | Curb Inlet protection | E Curb inlet on Christine Dr | 11/25/2019 | Pending | Yes |

| | | | | | |
|---|---|---|------------|---------|-----|
| Current Condition: | Pending - Due to construction on the villas being the main source of dirt in the streets/need for inlet protection, the builder of the Villas will now be the responsible party for installation of inlet protection. Curb inlet protection should be installed Thompson Construction was informed to complete by 11/25/19. Not done as of the last inspection. The Home Company was informed to complete by 12/09/19. Not done as of the last inspection. | | | | |
| Lots 1-10, Block 1, Replat 2 | Individual Lots | Block 1, Replat 2 (Northeast corner of site) | 11/18/2019 | Active | No |
| Current Condition: | Active - The Home Company began construction on the Villas in the northeast corner of the site prior to inspection on 8/26/19. No BMPs are required at this time. E&A will monitor. | | | | |
| Lots 1-10, Block 2, Replat 2 | Individual Lots | Block 2, Replat 2 (Northeast corner of site) | 11/18/2019 | Active | Yes |
| Current Condition: | Fair Condition - The Home Company began construction on the Villas in the northeast corner of the site prior to inspection on 8/26/19. No BMPs are required at this time. E&A will monitor. The Home Company secured the portable toilet prior to inspection on 12/16/19. The portable toilet in front of the lot should be moved 50' away from the curb inlet The Home Company was informed to complete by 12/9/19. Not done as of the last inspection. | | | | |
| Lots 2 & 3, Block 7 | Individual Lots | Block 7 | 11/18/2019 | Active | No |
| Current Condition: | Active - Construction began on the lots prior to inspection on 11/18/19. No BMPs are required at this time. E&A will monitor. | | | | |
| SB #1 | Sediment Basin | Central portion of site | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Basin will be installed once grading has commenced at a later date. | | | | |
| SB #2 | Sediment Basin | Southeast corner | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Basin will be installed once grading has commenced at a later date. | | | | |
| SF #1 | Silt Fence | Southeast corner | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Silt Fence will be installed at a later date. | | | | |
| SF #2 | Silt Fence | Northeast corner | 8/30/2018 | Pending | No |
| Current Condition: | Pending - Silt Fence will be installed at a later date. | | | | |
| STR | Street cleaning | Off-Site | In Place | Active | Yes |
| Current Condition: | Fair Condition - The streets near CE 2 were clean at time of inspection on 7/8/19. Interior streets should be cleaned throughout the development to prevent trackout on adjacent streets Jim Hammitt with E&A was told to inform Thompson Construction on 11/22/19. Not done as of the last inspection. The Home Company was informed to clean the streets in the northeast portion of the site by 12/3/19. | | | | |
| SWPPP Sign-SI | Signs | 2 Entrances | 10/9/2018 | Active | No |
| Current Condition: | Good Condition - Inspector installed 1 of 2 SWPPP signs during inspection on 10/9/18. Other SWPPP sign will be installed at the County Rd U Blvd entrance at a later date. The E&A inspector reinstalled the SWPPP sign during inspection on 9/19/19. | | | | |
| Sanitary Lift Station and Force Main | | | | | |
| CE 1 | Construction Entrance | County Road Blvd U | | Removed | |
| Current Condition: | Removed - See CE1 for Gallery 23 project as of 8/30/2018. | | | | |
| CW | Concrete Washout | County Road Blvd U | | Removed | |
| Current Condition: | Removed - See CW for Gallery 23 project as of 8/30/2018. No concrete is being poured for the sanitary lift project. | | | | |
| DC #1 | Ditch Wattle Checks | Sheet C-603 | | Removed | |
| Current Condition: | Removed - Due to the biodegradable nature of the straw wattles and the ditch being consistently under water, the straw wattles will not be repaired/replaced at this time. E&A will monitor for final stabilization/reseeding potential. | | | | |
| DC #2 | Ditch Wattle Checks | Sheet C-604 | | Active | |
| Current Condition: | Removed - Due to the biodegradable nature of the straw wattles and the ditch being consistently under water, the straw wattles will not be repaired/replaced at this time. E&A will monitor for final stabilization/reseeding potential. | | | | |
| DC #3 | Ditch Wattle Checks | Sheet C-605 | | Removed | |
| Current Condition: | Removed - The ditch wattle checks were removed prior to inspection on 8/26/19. | | | | |
| DC #4 | Ditch Wattle Checks | Sheet C-606 | | Removed | |
| Current Condition: | Removed - The ditch wattle checks were removed prior to inspection on 8/26/19. | | | | |
| EB #1 | Erosion Blanket | Along ditch between Rd 25 and lift station | 9/13/2018 | Active | No |

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|----------------------------------|---|--------------------------------------|------------|---------|-----|
| Current Condition: | Fair Condition - Erosion control blanket was installed by Carstensen Contracting prior to inspection on 9/19/18. The blanket is underwater as of inspection on 3/24/19. E&A will monitor once water subsides. Ditch was disturbed during natural gas installation prior to inspection on 7/8/19. Weedy vegetation has filled in the ditch. E&A will continue to monitor vegetative establishment. | | | | |
| EB #2 | Erosion Blanket | Along ditch W of 25 E of Hwy 275 | 9/13/2018 | Active | No |
| Current Condition: | Fair Condition - Erosion control blanket was installed by Carstensen Contracting prior to inspection on 9/19/18. The area associated with EB #2 is fully vegetated as of the 11/4/19 inspection. E&A will monitor the need for repairs if/when vegetation subsides. | | | | |
| EB #3 | Erosion Blanket | E of Roundabout | | Removed | |
| Current Condition: | Removed - Vegetation is well established in the area, therefore, the erosion control matting will no longer be inspected as its own BMP. | | | | |
| STR | Street cleaning | Off-Site | | Removed | |
| Current Condition: | Removed - See Street Cleaning for Gallery 23 East as of 12/02/19 inspection. | | | | |
| SWPPP Sign-SI | Signs | 2 Entrances | | Removed | |
| Current Condition: | Removed - See SWPPP signs under Gallery 23 East project | | | | |
| Water Main Extension | | | | | |
| CW | Concrete Washout | County Road Blvd U | | Removed | |
| Current Condition: | Removed - Concrete washouts will not be necessary for the water main project as of the 8/2/19 inspection. | | | | |
| SF #1 | Silt Fence | Area #1 | | Removed | |
| Current Condition: | Removed - There is no silt fence in this area, see IP 1 and IP 2 for BMPs in Area #1 | | | | |
| IP 1 | Inlet Protection | N side of 24th St (Enlarged Area #1) | | Removed | |
| Current Condition: | Removed - HR Bookstrom removed the inlet protection prior to inspection on 6/24/19. | | | | |
| IP 2 | Inlet Protection | S side of 24th St (Enlarged Area #1) | | Removed | |
| Current Condition: | Removed - HR Bookstrom removed the inlet protection prior to inspection on 6/24/19. | | | | |
| SF #2 | Silt Fence | Area #2 | | Removed | |
| Current Condition: | Removed - Due to established vegetation in the area, straw wattles will no longer be recommended in the area. E&A will monitor. | | | | |
| SF #3 | Silt Fence | Area #3 | | Removed | |
| Current Condition: | Removed - Silt fence will not be needed in the area due to stabilization as of 7/21/19 inspection. | | | | |
| SF #4 | Silt Fence | Area #4 | | Removed | |
| Current Condition: | Removed - Silt fence will not be needed in the area due to stabilization as of 11/4/19 inspection. | | | | |
| SF #5 | Silt Fence | Area #5 | | Removed | |
| Current Condition: | Removed - Silt fence will not be needed in the area due to stabilization as of 11/4/19 inspection. | | | | |
| SF #6 | Silt Fence | Area #6 | | Removed | |
| Current Condition: | Removed - Silt fence will not be needed in the area due to stabilization as of 7/21/19 inspection. | | | | |
| STR | Street cleaning | Off-Site | | Removed | |
| Current Condition: | Removed - See Street Cleaning for Gallery 23. Water improvements are complete as of the 11/4/19 inspection. | | | | |
| SWPPP Sign-SI | Signs | 2 Entrances | | Removed | |
| Current Condition: | Removed - See SWPPP signs under Gallery 23 East project | | | | |
| Intersection Improvements | | | | | |
| SF 1 | Silt Fence | West of Gallery East Drive culvert | 12/9/2019 | Pending | Yes |
| Current Condition: | Pending - Silt Fence will be installed at a later date. The silt fence should be installed Jim Hammitt of E&A was told to inform Luxa to complete by 12/9/19. Not done as of the last inspection. | | | | |
| SF 2 | Silt Fence | West of Farm Field Road culvert | 12/9/2019 | Pending | Yes |
| Current Condition: | Pending - Silt Fence will be installed at a later date. The silt fence should be installed Jim Hammitt of E&A was told to inform Luxa to complete by 12/9/19. Not done as of the last inspection. | | | | |
| SF 3 | Silt Fence | East of Farm Field Road culvert | 10/17/2019 | Pending | Yes |

| | |
|---|---|
| Current Condition: | Pending - The silt fence should be installed Jim Hammitt was told to inform Thompson Construction or Luxa to complete by 10/17/19. Not done as of the last inspection. Thompson Construction was reminded on 11/6/19, 11/18/19. Luxa was reminded on 12/3/19. |
| Inspector Signature:  | Reviewed By:  |