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Engineering Answers

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

Inspector: Joe Manning	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:	8/22/2020	
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%	95%
Sanitary Sewer:	97%	N/A	100%	N/A
Storm Sewer:	95%	N/A	N/A	N/A
Paving:	99%	N/A	N/A	35%
Seeding:	1%	100%	99%	0%
Utilities:	98%	N/A	N/A	N/A
Overall Development:	45%	100%	99%	35%

RAIN FALL AMOUNTS	Amount in inches	Date inspected	Weather Conditions	Time	
					Week 1
Sunday:	0.49"				
Monday	0.00"				
Tuesday	0.00"				
Wednesday	0.00"				
Thursday	0.00"				
Friday	0.00"				
Saturday	0.00"				
					Week 2
Sunday:	0.30"				
Monday	0.00"	08/17/20	Partly Cloudy 81/64	9:30 AM	
Tuesday	0.00"				
Wednesday	0.00"				
Thursday	0.00"				
Friday	0.00"				
Saturday	0.00"				
					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). Minor trenching/excavation west of HWY 275 for communications/data installation (1/27/20).

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).

Grading for Highway 30 intersection improvements has begun (7/27/20).

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). Minor trenching/excavation west of HWY 275 for communications/data installation (1/27/20).

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).

Grading for Highway 30 intersection improvements has begun (7/27/20).

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).

Checklist Questions:

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

Create Corrective Action?

N/A

Have disturbed areas been seeded or otherwise stabilized as required? List inactive portions of the project and if stabilization measure are adequate or needed to prevent erosion.

Yes

Create Corrective Action?

N/A

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

No

Create Corrective Action?

No - See Findings Section

Are construction entrances and adjacent streets being maintained adequately?

No

Create Corrective Action?

No - See BMP section

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

Yes

Create Corrective Action?

N/A

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 complete. 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 inactive as of the last inspection for culvert installation (9/30/19).

Erosion was observed over the box culverts along the north side of the site by the two entrances during the 6/23/20 inspection. Recommendations will be made as the intersection improvements become active.

Highway 30 intersection improvements project was active for paving during the last inspection.

Findings / Corrective Actions (Date):**Findings / Corrective Actions (Date):**


1. See BMP section for required maintenance.

2. Luxa placed a portable toilet on site for the Highway 30 Improvements prior to the inspection on 8/17/20. The portable toilet should be secured. Jim Hammitt was informed to contact Luxa on 8/19/20.

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.				
CE 3	Construction Entrance	NE Corner - Hwy 30 & Christine Drive		Removed	
Current Condition:	Removed - The construction entrance was removed as a part of the Highway 30 intersection improvements prior to the inspection on 8/05/20. E&A inspector will monitor and recommend reinstallation at a later date if necessary.				
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 of the site prior to 8/30/2018.				
DD #1	Diversion Ditch	NW Corner of Lake		Removed	
Current Condition:	Removed - The diversion ditch was removed during regrading/paving in the area prior to inspection on 12/30/19.				
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		Removed	

Current Condition:	Removed - The diversion ditch was removed during regrading/paving in the area prior to inspection on 12/30/19.				
DD #7	Diversion Ditch	N side of lake		Removed	
Current Condition:	Removed - The diversion ditch was removed during regrading/paving in the area prior to inspection on 12/30/19.				
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		Removed	
Current Condition:	Removed - The area east of the area inlet naturally stabilized prior to the 8/05/20 inspection. Inlet Protection no longer needed at this time.				
IP 2	Curb Inlet protection	W Curb inlet on Christine Dr		Removed	
Current Condition:	Removed - The Home Company sodded lots 1-8 prior to the inspection on 6/10/20. Inlet protection is no longer required.				
IP 3	Curb Inlet protection	E Curb inlet on Christine Dr		Removed	
Current Condition:	Removed - The Home Company sodded lots 1-8 prior to the inspection on 6/10/20. Inlet protection is no longer required.				
Lots 1-10, Block 1, Replat 2	Individual Lots	Block 1, Replat 2 (Northeast corner of site)		Removed	
Current Condition:	Removed - The Home Company sodded the remaining lots and removed the portable toilets prior to the inspection on 7/01/20.				
Lots 1-10, Block 2, Replat 2	Individual Lots	Block 2, 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. The Home Company secured the portable toilet prior to inspection on 12/16/19. The portable toilet was moved further away from the inlet prior to inspection on 1/13/20. The portable toilet was moved to Block 1, Replat 2 prior to inspection on 2/10/20.				
Lots 2 & 3, Block 7	Individual Lots	Block 7		Removed	
Current Condition:	Removed - The Home Company sodded lots 2 & 3 prior to the inspection on 6/10/20.				
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 and when deemed necessary				
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 and when deemed necessary				
SF #1	Silt Fence	Southeast corner	8/30/2018	Pending	No
Current Condition:	Pending - Silt Fence will be installed at a later date when deemed necessary				
SF #2	Silt Fence	Northeast corner	8/30/2018	Pending	No
Current Condition:	Pending - Silt Fence will be installed at a later date when deemed necessary				
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. The Home Company was reminded to clean the streets on 2/11/20, 4/1/20, 6/02/20. Thompson Construction was reminded on 6/23/20.				
SWPPP Sign-SI	Signs	2 Entrances	10/9/2018	Pending	No
Current Condition:	Pending - 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. The E&A inspector reinstalled the SWPPP sign during the 2/24/20 inspection. The E&A inspector reinstalled the SWPPP sign prior to the inspection on 3/31/20. The SWPPP sign was removed during the Highway 30 Intersection Improvements prior to the inspection on 8/17/20. E&A inspector will reinstall as construction allows.				
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
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	No
Current Condition:	Pending - Silt Fence will be installed at a later date. Per conversation with Jim Hammitt on 4/1/20 the silt fence no longer needs to be installed due to imminent regrading.				
SF 2	Silt Fence	West of Farm Field Road culvert	12/9/2019	Pending	No
Current Condition:	Pending - Silt Fence will be installed at a later date. Per conversation with Jim Hammitt on 4/1/20 the silt fence no longer needs to be installed due to imminent regrading.				
SF 3	Silt Fence	East of Farm Field Road culvert	10/17/2019	Pending	Yes

Current Condition:	Pending - Ditch checks 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, 4/1/20. Jim Hammitt was told to remind Luxa as intersection improvements become active. Jim Hammitt was reminded to inform Luxa now that intersection improvements have become active on 8/19/20.
Inspector Signature: 	Reviewed By: 