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Engineering Answers

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

E&A- P2005.030.000

| | | |
|-------------------------|---|--------------|
| Inspector: Luke Antholz | | Stage |
| Project Name: | The Heritage NER110495 | 2 |
| For Week Ending: | 3/28/2020 | |
| Project Location: | East of 156th Street, North and South of Rainwood Road - Bennington, NE (Douglas County) | 68007 |

| | | | | |
|----------------------|------|--|--|--|
| Grading: | 100% | | | |
| Sanitary Sewer: | 100% | | | |
| Storm Sewer: | 100% | | | |
| Paving: | 100% | | | |
| Seeding: | 100% | | | |
| Utilities: | 100% | | | |
| Overall Development: | 98% | | | |

| RAIN FALL AMOUNTS | Amount in tenths | Date inspected | Weather Conditions | Time | |
|-------------------|------------------|----------------|--------------------|---------|---------------|
| | | | | | Week 1 |
| Sunday: | 0.00" | | | | |
| Monday | 0.00" | | | | |
| Tuesday | 0.09" | | | | |
| Wednesday | 0.18" | | | | |
| Thursday | 0.72" | | | | |
| Friday | 0.02" | 3/20/2020 | Clear 30/17 | 9:00 AM | |
| Saturday | 0.00" | | | | |
| | | | | | Week 2 |
| Sunday: | 0.00" | | | | |
| Monday | 0.00" | | | | |
| Tuesday | 0.00" | | | | |
| Wednesday | 0.00" | | | | |
| Thursday | 0.00" | | | | |
| Friday | 0.00" | | | | |
| Saturday | 0.07" | | | | |
| | | | | | Week 3 |
| Sunday: | N/A | | | | |
| Monday | N/A | | | | |
| Tuesday | N/A | | | | |
| Wednesday | N/A | | | | |
| Thursday | N/A | | | | |
| Friday | N/A | | | | |
| Saturday | N/A | | | | |



| | |
|-------------|------|
| Complaints: | None |
| | |

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?
 Entire site, grading completed 7/2006 and site seeded 9/5/06. Grading began on old school site east of Stargrass Road (11/9/17).
 Which portion(s) (i.e. drainage basins) of the site do not have grading, earthwork, or ground disturbance scheduled in the next 14 days? :
 Entire site, grading completed 7/2006 and site seeded 9/5/06. Grading began on old school site east of Stargrass Road (11/9/17).
 What temporary or permanent stabilization measures listed in this section are being implemented?
 Wetlands Mitigation Seeding (5/31/06), Slopes Seeded/Matted (8/30/06), Temp. Seeded (9/5/06), Re-Seeded 5/21/07, Re-Seeded ROW on 9/5/07 & 11/14/07, Erosion seeded in various areas (4/09), Old Basin 5 was seeded and matted (5/2/12). The areas that were disturbed when SB 3 and 5 were closed has been seeded (9/10/16/). Area surrounding SB#4 has been seeded (5/22/18).

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? | | | | | |
| Yes | | | | | |
| Create Corrective Action? | | | | | |
| N/A | | | | | |
| Are construction entrances and adjacent streets being maintained adequately? | | | | | |
| Yes | | | | | |
| Create Corrective Action? | | | | | |
| N/A | | | | | |
| Is dust associated with the construction activity adequately controlled on the site? | | | | | |
| Yes | | | | | |
| Create Corrective Action? | | | | | |
| N/A | | | | | |
| Comments: | | | | | |
| Comments: 1. Site is active for home building. 2. SB 4 is being partially closed to accommodate the dirt from the grading of the new area as of 11/9/17. The inspector will continue to monitor its effectiveness. The surrounding area is primarily built out so the remaining basin can accommodate the flow coming from the adjacent lots. The basin was working effectively as of the 8/13/18 inspection. | | | | | |
| Findings / Corrective Actions (Date): | | | | | |
| Findings / Corrective Actions (Date): Some maintenance is required in the BMP section. | | | | | |
| | | | | | |
| Unique Name | Type | Location | Projected Install Date | Status | Maintenance |
| CE 1 | Construction Entrance | Intersection of Rosewood and Rainwood Road | 11/21/2017 | Pending | No |
| Current Condition: | Pending - The inspector will recommend an entrance if it becomes necessary as of the 11/21/2017 inspection. | | | | |
| CW 1 | Concrete Washout | Lot 20 | | Removed | |
| Current Condition: | Removed - Boyer Young cleaned out and removed the concrete washout prior to the 9/26/15 inspection. | | | | |
| CW 2 | Concrete Washout | Lot 162 | | Removed | |
| Current Condition: | Removed - Boyer Young cleaned out and removed the concrete washout prior to the 9/26/15 inspection. | | | | |
| IF 1 | Inlet Filter | Rosewater Prky and Chicory St. | | Removed | |
| Current Condition: | Removed - E&A inspector removed the inlet filter during inspection on 4/15/17. | | | | |
| Lot 18 | Silt Fence | Lot 18 | 5/7/2019 | Active | No |
| Current Condition: | Active - Homeowner Gene Barnhill began construction on the lot prior to the 5/7/19 inspection, no BMPs are recommended at this time, due to the lot being relatively flat. E&A inspector will continue to monitor. | | | | |
| Lot 20 | Individual Lot | Lot 20 | | Removed | |
| Current Condition: | Removed - Lot is currently inactive, Lot 20 will be re-added when construction begins. | | | | |
| Lot 22 | Individual Lot | Lot 22 | | Removed | |
| Current Condition: | Removed - Lot is currently inactive, Lot 22 will be re-added when construction begins. | | | | |
| Lot 36 | Individual Lot | Lot 36 | | Removed | |
| Current Condition: | Removed- River Stone Custom Homes sodded the lot prior to the 6/24/19 inspection. | | | | |
| Lot 38 | Individual Lot | Lot 38 | | Removed | |
| Current Condition: | Removed- D&E Custom Building and Design sodded the lot prior to the 6/24/19 inspection. | | | | |
| Lot 39 | Individual Lot | Lot 39 | | Removed | |
| Current Condition: | Removed- D&E Custom Building and Design sodded the lot prior to the 6/24/19 inspection. | | | | |
| Lot 43 | Individual Lot | Lot 43 | | Removed | |
| Current Condition: | Removed - Sherwood Homes sodded the lot prior to the 7/8/19 inspection. | | | | |
| Lot 44 | Individual Lot | Lot 44 | | Removed | |
| Current Condition: | Removed - Brookstone Development sodded to the lot prior to the inspection on 12/17/19 | | | | |
| Lot 58 | Silt Fence | Lot 58 | | Removed | |
| Current Condition: | Removed - Dynasty Homes sodded the lot prior to the 7/8/19 inspection. | | | | |
| Lot 60 | Individual Lot | Lot 60 | | Removed | |
| Current Condition: | Removed - Legacy Homes sodded the lot prior to the 5/7/19 inspection. | | | | |
| Lot 61 | Individual Lot | Lot 61 | | Removed | |
| Current Condition: | Removed - Legacy Homes sodded the lot prior to the 5/7/19 inspection. | | | | |
| Lot 62 | Individual Lot | Lot 62 | 8/12/2019 | Active | Yes |

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|---------------------------|---|--|------------|---------|-----|
| Current Condition: | Fair Condition - Huntington Homes started excavating the lot prior to the 8/12/19 inspection. Huntington Homes installed silt fence on the northeast corner of the lot prior to the 8/26/19 inspection. Huntington Homes removed the dirt pile from the ROW prior to the 9/9/19 inspection. Huntington Homes installed straw wattles on the rear of the lot prior to the 9/23/19 inspection. Huntington Homes installed wattles on the side of the lot prior to the 10/11/19 inspection. 1.) Sediment should be cleaned up from the adjoining Lot 61. 2.) Silt fence should be repaired where damaged in the rear of the lot. 1.) Huntington Homes was informed to complete by 10/18/19. Not done as of last inspection. Huntington Homes was reminded on 11/5/19, 12/4/19, 1/13/20, 2/24/20 2.) Huntington Homes was informed to complete by 11/12/19. Not done as of last inspection. Huntington Homes was reminded on 12/4/19, 1/13/20, 2/24/20 | | | | |
| Lot 65 | Individual Lot | Lot 65 | 7/16/2019 | Active | Yes |
| Current Condition: | Fair Condition - Huntington Homes started excavating the lot prior to the 7/16/19 inspection. Huntington Homes removed the dirt pile and concrete washout from the lot prior to the 8/12/19 inspection. Huntington Homes began home construction on the lot prior to the 8/12/19 inspection. Huntington Homes installed silt fence on the rear of the lot prior to the 8/26/19 inspection. Huntington Homes secured the portable toilet on the lot prior to the inspection on 1/27/20. Silt fence should be repaired/retied/reinstalled where damaged and removed in the rear of the lot. Huntington Homes was informed to complete by 11/12/19. Not done as of last inspection. Huntington Homes was reminded on 12/4/19, 1/13/20, 2/24/20 | | | | |
| Lot 66 | Individual Lot | Lot 66 | | Removed | |
| Current Condition: | Removed - Legacy Homes sodded the lot prior to the 5/7/19 inspection. | | | | |
| Lot 190 | Silt Fence | Lot 190 | | Removed | |
| Current Condition: | Removed - Pinecrest Homes sodded the lot prior to the 5/7/19 inspection. | | | | |
| Lot 191 | Individual Lot | Lot 191 | | Removed | |
| Current Condition: | Removed - David Thomas Construction sodded the lot prior to the 4/23/19 inspection. | | | | |
| Lot 192 | Individual Lot | Lot 192 | | Removed | |
| Current Condition: | Removed - Brookstone Development sodded the lot prior to the 7/8/19 inspection. | | | | |
| Lot 193 | Individual Lot | Lot 193 | | Removed | |
| Current Condition: | Removed- Proline Homes sodded the lot prior to the 6/24/19 inspection. | | | | |
| SF 6 | Silt Fence | SB 5 | | Removed | |
| Current Condition: | Removed - Commercial Seeding removed the silt fence prior to the 10/9/18 inspection. | | | | |
| SF 7 | Silt Fence | SB 3 | | Removed | |
| Current Condition: | Removed - SF 7 changed to lot level item (lots 5 and 6) as of 5/15/18. | | | | |
| SF 8 | Silt Fence | Rainwood Road | | Removed | |
| Current Condition: | Removed - Boyer Young installed a silt fence check in front of Rainwood Road prior to 11/23/2016. Silt Fence was repaired prior to the 8/13/18 inspection. Boyer Young removed the silt fence prior to the 10/23/18 inspection. | | | | |
| SF 9 | Silt Fence | The perimeter of the newly graded area | 11/21/2017 | Active | Yes |
| Current Condition: | Fair Condition - The silt fence was repaired by Commercial Seeding prior to the inspection on 4/5/18. A section of the silt fence was not repairable due to standing water. Commercial Seeding installed silt fence around the existing dirt stock pile prior to the inspection on 3/5/18. The silt fence in the SE corner was repaired prior to inspection on 4/27/18. The Inspector was informed that the silt fence would be the highest priority for Commercial Seeding during the week of 7/30/18. Silt fence was repaired and sediment was cleaned up from adjacent lots prior to the 8/13/18 inspection. Commercial Seeding repaired and cleaned out the silt fence prior to the 11/6/18 inspection. Silt fence is becoming undermined in the northeastern section as of the 3/26/19 inspection, inspector will continue to monitor and attempt to remedy during the next inspection. Inspector backfilled the silt fence during the 4/9/19 inspection. Commercial Seeding backfilled and repaired the silt fence prior to the 6/24/19 inspection. Minor damage was observed on the silt fence during the 8/5/19 inspection. E&A inspector will retie silt fence during next inspection. E&A inspector retied the silt fence where it was damaged during the 8/12/19 inspection. Silt fence is damaged in multiple locations and should be repaired/retied. Jerry Banks was informed to complete when weather conditions allow on 2/3/20. Jerry Banks informed the E&A inspector on 1/28/20 that he no longer is responsible for the silt fence maintenance. The SID manager was informed of this information, and the E&A inspector is waiting to hear from the SID manager about who will be responsible for silt fence maintenance from now on. Not done as of last inspection. | | | | |
| SB 3 | Sediment Basin | South of Wild Indigo St and Prairie Star St. | | Removed | |
| Current Condition: | Removed - The basin was closed prior to the 8/24/16 inspection. | | | | |
| SB 4 | Sediment Basin | South of 149th Dead End | 11/14/2005 | Active | No |
| Current Condition: | Good Condition- 40% Filled - Roth Enterprise cleaned off the risers prior to the 7/7/16 inspection. Dustin Roth removed southern riser and removed dirt to restore drainage prior to inspection on 7/2/18. | | | | |

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|-----------------------------|---|--|-----------|---------------------|---|
| SB 5 | Sediment Basin | Southwest corner of Rosewater Pkwy and North H.W.S Cleveland Blvd | | Removed | |
| Current Condition: | Removed - The basin was closed prior to the 8/24/16 inspection. | | | | |
| STR | Street Cleaning | Entire Site | 2/26/2007 | Active | No |
| Current Condition: | Good Condition - CBS Homes cleaned the streets in front of Lot 26 prior to inspection on 6/20/18. Streets were clean during the 9/18/18 inspection. Street was cleaned in front of lot 38 prior to the 10/23/18 inspection. Streets were covered in snow during the 2/19/19 inspection, street cleaning recommendations will remain on the report until the inspector can verify if any street cleaning activities have occurred. Minor street cleaning was performed in front of lots 60, 61, and 66 by plowing activities or by Legacy Homes prior to the 3/5/19 inspection, sediment is still present along the curb line. Legacy Homes cleaned the curb line prior to the 5/7/19 inspection, minor sediment is present in front of lots 38 and 39, inspector will continue to monitor. Brookstone Development cleaned the street in front of lot 44 prior to the 10/22/19 inspection. | | | | |
| SWPPP Sign | Signs | 1 sign on site | 8-19-08 | Active | No |
| Current Condition: | Good Condition: 156th and Bennington Blvd | | | | |
| Inspector Signature: |  | | | Reviewed By: |  |