

**CON-CON/ BELTRAMI and MARSHALL COUNTY / PROPOSED ALL-TERRAIN-VEHICLE TRAILS**

Addressing the proposed trail miles for potential all-terrain-vehicle-use on Wildlife Management Areas within the Consolidated Conservation lands of northwest Minnesota as identified by the Commissioner of the Department of Natural Resources.

**PROJECT LOCATION.** Con Con lands in Beltrami & Marshall counties.

**PROJECT PURPOSE.** This second phase of the con-con process will provide a designated ATV trail system and motorized vehicle access to certain state wildlife management areas, as originally ordered by the State Legislature in 2002. Development is intended to ensure “reasonable access” for ATVs to some con-con lands via existing travel routes. Trails will be monitored and regularly maintained as part of the DNR’s designated ATV trail system. The areas where such use already occurs and will continue as recommended by the appointed members of county work teams and identified by the Commissioner are identified in addendum A. This use will be monitored and the trails will be maintained & repaired as needed to ensure sustainable access as part of a designated trail system. Pursuant to Minnesota Session Laws 2002, Chapter 353, this proposal identifies and designates ATV trail corridors within the post-1986 Con-Con lands classified as WMA lands in Beltrami and Marshall Counties. For a complete list of proposed trail segments please refer additional information available at:

<http://www.dnr.state.mn.us/input/mgmtplans/ohv/plans/index.html>

and at:

<http://www.dnr.state.mn.us/input/issues/concon/index.html>

**PROJECT DESCRIPTION.** This project was to assess, sign and map at least 90 miles of trail within the post-1986 designated Con-Con Wildlife Management Areas in Beltrami, Marshall and Roseau Counties by the 2002 legislative action to proceed with designation by the Commissioner of the Department of Natural Resources. Trail designation will utilize existing corridors of disturbance within the con-con lands, county and township roads and rights-of-way that are on, adjacent or contiguous to post-1986 Con-Con lands. Project details are defined in Addendum A of this document for trail segments in addition to the previous public review segments. A project proposal to of a grant-in-aid trail proposal providing a trail system is also available for public review. These GIA miles will be addressed in a separate project proposal also available for public review at this time, additional information on the GIA proposal is available at:

<http://www.dnr.state.mn.us/input/mgmtplans/ohv/plans/index.html>

**NEW OR EXISTING CORRIDOR.** Proposed trail designations are located on or within existing trail, ditch spoil banks or road corridors of disturbance.

**CURRENT LAND USE / OWNERSHIP.** The current use of areas proposed for designation includes recreational motorized and non-motorized use, recreational and agricultural motor vehicle use and no use. Land ownership includes state, county, and township. Proposed trail segments identified as on state or private lands were based on the information available from land records, landmarks, and county and township road right of way. A formal survey will be conducted in some areas to ensure ownership of the trail right-of-way before trails are improved in those areas.

**UNIQUE / SENSITIVE RESOURCES.** No known natural, cultural or historically significant resources will be impacted. Minimal impact and/or encroachment into protected surface waters or wetlands are anticipated. Surface grade repairs may impact small areas of wetland and will be handled on a case-by-case basis. There is no known Natural Heritage elements of threatened or endangered species on the proposed trail segments although potentially these species may be found off the proposed trails. Seasonal closures of designated trail segments are planned to minimize disruption of nesting seasons of select species, to protect trail tread way during spring snowmelt and heavy rain events and during resource management activities (e.g. prescribed burning). Construction techniques are described below.

**REQUIRED PERMITS OR MITIGATION.** Various permits or mitigation may be necessary for select segments of proposed trails of this proposal and will be obtained prior to any construction.

**CONSTRUCTION SPECIFICATIONS/SUGGESTED ENVIRONMENTAL SAFEGUARDS.** This project is not proposing to construct new trail at any location along the proposed routes. It will utilize existing corridors of disturbance, some of which will require the following measures to establish a trail surface that meets the needs of the user.

- woody vegetation removal and/or trimming.
- native vegetation plantings to stabilize soils.

- soil stabilization & tread way hardening using boardwalks, geo-textile, and aggregate placement.
- erosion control measures including native vegetation plantings and aggregate placement, and installation of appropriately sized culverts and bridges where necessary
- armoring and repair of unstable segments.

Trail design and construction techniques will be employed to minimize surface water run-off and limit soil movement. Temporary erosion controls will be instituted before, during and immediately following construction of surface stabilization measures. Once the trails are operational, soil conditions and erosion control devices will be monitored regularly and maintained. Trail surfaces will be regularly inspected, and remedial action taken as necessary to minimize run-off and prevent possible sedimentation of surface waters.

Project details are defined in Addendum A of this document, including references to the attached map.

**RATING OF DEVELOPMENT:**

- Low Development – Access is currently present or can be installed with minimal effort. All tasks can be completed with current crew and equipment with purchased supplies.
- Medium Development – Would require crew additional equipment and supplies.
- High Development – Outside vendors and contracts expected to accomplish tasks.

**Total miles: 39.65**

<b>Low Development Miles:</b>	<b>17.15</b>
<b>Medium Development Miles:</b>	<b>8.50</b>
<b>High Development Miles:</b>	<b>14.00</b>

**EAW NEED DETERMINATION.** MN Department of Natural Resources OMBS determined an EAW is not needed.

**ACCESS:** All culvert sizes to be determined by proper ditch authority. “No access” implies either no present legal travel connection due to lack of crossing or need for discussion with adjacent landowner to pursue purchased easements for access in specific trail locations. “Landowner contact needed” implies resolution on boundary or ownership must be accomplished before development.

**ESTIMATED PROJECT COST.** \$150,000.00. Work will be accomplished with MN DNR Trails & Waterways crews and fleet or contracted equipment on lands managed by the Department of Natural Resources.

**PROJECT INFORMATION CONTACTS.**

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REFERENCES

Beltrami, Marshall and Roseau County Plat Books

State of Minnesota 2002 ATV/WMA Legislation, Minnesota Statute 97A.133, subdivision 3, paragraph (a)

State of Minnesota Dept. of Natural Resources. “Consolidated Conservation (Con-Con) Lands Legislative Report” January 15, 2003

State of Minnesota Dept. of Natural Resources. Definitions. Minnesota Statute 84.92 ., subdivision 8

State of Minnesota Dept. of Natural Resources 2002. “Enjoying and Protecting Our Land and Water: Minnesota’s 2003-08, Statewide Comprehensive Outdoor Recreation Plan” 48 pages.

State of Minnesota Dept. of Natural Resources. DNR Northwest Region OHV System Plan, Draft 2001

State of Minnesota Session Laws 2002, Chapter 353

State of Minnesota Dept. of Natural Resources. “Consolidated Conservation (Con-Con) Lands Legislative Report” January 15, 2004

**Big Grass/Northwood #5.** This segment of proposed trail begins at the southwest corner of NW section 6-157-38. It proceeds north 1.5 miles to its terminus at the NW corner of section 31-158-38. It is located on the grade of the ditch adjacent to Marshall County Highway 54. The ditch is located along the east side of the north-south ditch grade for the entire 1.5 mile distance of the proposed trail and is 8.7 feet below the surface of the proposed trail. The surface of the proposed trail grade is 1.4 feet above the surrounding ground. There is evidence of motorized use of this proposed trail segment. The proposed trail is on WMA lands, identified as Wapiti Wildlife Management Area, for a distance of 1.5 mile.

- **Scope of work necessary.** *Rated low development. Access is off County Road #706 at the south end of the segment, runs parallel to Marshall County Hwy #54. Access at north end of segment is from Phantom Road. Treadway appears to only need mowing.*
- **Connectivity/dead end.** *This segment of proposed trail ends at a township road. The ditch grade continues to the north but eventually deteriorates to non-existence as it crosses private lands resulting in dead end to motorized use. This segment but would be available for recreation and utilitarian use.*
- **Expected segment use.** *Medium, access.*

**Big Grass #1a.** This segment of proposed trail begins at the southeast corner of SW section 10-158-38. It proceeds west 1.0 mile to its terminus at the SWSE corner of section 9-158-38. It is located on the grade of the ditch adjacent to Branch A Judicial Ditch #21. The proposed trail is on WMA lands, identified as Wapiti Wildlife Management Area, for a distance of 1.0 mile.

- **Scope of work necessary.** *Rated low development. Access is off ConCon ATV Phase I Trail segment named Big Grass #1. Treadway appears to only need mowing.*
- **Connectivity/dead end.** *This segment of proposed trail connects to an existing ATV trail segment.*
- **Expected segment use.** *Medium, access.*

**Spruce Grove #2.** This segment of proposed trail begins at the southeast corner of NE section 30-156-37. The trail proceeds west and ends at the southwest corner of the NW section 30-156-37. The trail is along the right-of-way next to Beltrami County Road 702 on the north side for 1.0 mile. The ditch is located on the south side for the ditch grade for the entire 1.0 mile of this proposed trail segment and is 10.0 feet below the trail surface grade. Grade height is 2.5 feet above the surrounding ground. There is evidence of motorized use on this proposed trail segment, including ATVs. The proposed trail is on WMA lands for a distance of 1.0 mile.

- **Scope of work necessary.** *Rated medium development to establish connection. Rated low development initial. Access is from Spruce Grove 1, dead-end at west terminus at present. A bridge at the west end of this segment would allow access to Beltrami County #702 off Judicial Ditch 11.*
- **Connectivity/dead end.** *GIA proposal would connect the segment to Benville #1, Spruce Grove #1 and Hamre #12 with two large crossings. GIA would utilize this segment.*
- **Expected segment use.** *High, recreational.*

**Hamre-Lee #5.** This segment of proposed trail begins at the northeast corner of section 20-155-37 and proceeds 4.0 miles west to the northwest corner of section 22-155-38. The segment junctions with the "Lost River" ditch grade and follows the grade west. The ditch is 7.3 feet below the grade. The grade is 1.3 feet above the surrounding ground level. There is evidence of motorized use on the entire 4.0 miles of this proposed trail segment, including ATVs. Part of this segment is utilized as a snowmobile trail December 1 to April 1. There will be a seasonal closure in effect from early spring (March 15<sup>th</sup>) to mid summer (July 15<sup>th</sup>) on this segment of proposed trail to minimize disturbance to nesting birds and other wildlife that are rearing young. By approximately July 15, nesting is complete and birds and other young of the year wildlife are better able to tolerate anticipated disturbance. This segment crosses significant, large, contiguous tracts. Observed human use in the last three years, including ATVs, of this area normally occurs September, October and November. The proposed trail is on WMA lands, identified as Wolf Trail Wildlife Management Area, for a distance of 4.0 miles.

- **Scope of work necessary.** *Rated high development. Access at the west end of seasonal segment Lee 5. Near the Northwest corner of section 20, work will need to be done (ie: leveling, hardening to connect segment that goes east. Can access on east end from Hamre 4 for the first mile to the west. Concrete planks suggested at old Lost River crossing. Low water crossing northwest corner section 20. Remaining three miles mow and go. Judicial Ditch 34.*
- **Connectivity/dead end.** *A low water crossing across the Lost River will be necessary if this segment is to provide connectivity to other parts of the trail system or access to communities (ie: Grygla). GIA proposal would utilize this segment, in addition connects Lee 5 and Hamre 4.*
- **Expected segment use.** *High, recreational.*

**Hamre #12.** This segment of proposed trail begins at the northeast corner of NWNE section 3-155-37. It proceeds west 0.75 mile then turns south and proceeds 1.0 mile to the southeast corner of section 3-155-37. This trail is located on the ditch grade adjacent to and Beltrami County 707 on the north-south portion. There is evidence of motorized use on the entire 1.75 miles of this proposed trail segment, including ATVs. The proposed trail is on or adjacent to WMA lands, identified as Gun Dog Wildlife Management Area, for a distance of 1.75 miles.

- **Scope of work necessary.** *Rated low development.* Access is from Hwy #89. Crossing present at Gun Dog WMA sign. No crossing needed going south along Jelle Road. South end #707 and Hamre Road – possible hardening needed.
- **Connectivity/dead end.** Provides access on north-south portion. East-west portion across Hwy 89 in south ditch. GIA proposal in north ditch on Forestry lands.
- **Expected segment use.** Low, primarily access.

**Hamre #13.** This segment of proposed trail begins at the northeast corner of NW section 9-155-37. It proceeds west 1.0 mile to the northwest corner of NE of section 8-155-37. The proposed trail is on or adjacent to WMA lands, identified as Saw Whet Wildlife Management Area, for a distance of 1.0 miles.

- **Scope of work necessary.** *Rated low development.* This segment can be divided into two projects as it is divided in the center by Homme Road. The entire Hamre 13 segment will require extensive brushing before use. The west end of the segment can be accessed from Homme Road without a culvert. The west end of this segment ends in a church cemetery – would need a low water crossing to get back on Hamre Road, if desired. Ditch here is 3 feet below grade and 20 feet across. The east ½ of this segment will need a culvert/crossing to access, either from Hamre Road or Homme Road. This crossing will also give access to the north end of Hamre 13A. Judicial Ditch 34.
- **Connectivity/dead end.** This proposed trail segment makes present connection to Hamre 13A. GIA proposal runs right by on gravel and graded road along west part of segment.

**Expected segment use.** Low, primarily access.

**Hamre #13a.** This segment of proposed trail begins at the SE corner of the NESE sec 8-155-37, then proceeds north for 0.25 miles on grade. The segment then moves to the east side of Homme Road and continues north for 0.50 miles where it makes a connection to Hamre 13. The proposed trail is on or adjacent to WMA lands identified as Saw Whet Wildlife Management Area for a distance of 0.75 miles.

- **Scope of work necessary.** *Rated low development.* There is present access only to the south 0.25 mile of this segment, which is on what appears to be a public roadway/cartway. The remaining 0.5 miles of this segment is on a mowed power line right-of-way on the opposite side of the ditch. A culvert will be needed to connect the two parts of this segment.
- **Connectivity/dead end.** This proposed segment will make a key connection to several miles of Phase I trails 0.25 miles south on what appears to be a maintained public cart way. GIA proposal runs right by on gravel and graded road.
- **Expected segment use.** Low, primarily access.

**Hamre #14.** This segment of proposed trail begins at the northeast corner of section 32-155-37. It proceeds west 0.9 mile to its terminus at the NW corner of section 32-155-37. The proposed trail is on or adjacent to WMA lands, identified as Hamre Wildlife Management Area, for a distance of 0.9 miles.

- **Scope of work necessary.** *Rated low development.* Access from east off Hamre 10. Treadway appears to only need mowing.
- **Connectivity/dead end.** This proposed trail segment connects to Hamre #10 and provides access to a walking trail. GIA proposal would connect this segment to Hamre #4 and Hamre #15. Utilized by GIA proposal.
- **Expected segment use.** High, recreational.

**Hamre #15.** This segment of proposed trail begins at the northeast corner of section 10-155-37. It proceeds west 1.0 mile to its terminus at the NW corner of section 10-155-37. The proposed trail is on or adjacent to WMA lands, identified as Gun Dog Wildlife Management Area, for a distance of 1.0 mile.

- **Scope of work necessary.** *Rated medium development.* Access from east off Hamre #2. Treadway appears to need several locations hardened to sustain motorized use.
- **Connectivity/dead end.** This proposed trail segment connects to Hamre #1 and Hamre #2.
- **Expected segment use.** High, recreational.

**Hamre #16.** This segment of proposed trail begins at the northeast corner of the southeast section 22-155-37. It proceeds west 1.0 mile to its terminus at the NWSW corner of section 22-155-37. The proposed trail is on or adjacent to WMA lands, identified as Hamre Wildlife Management Area, for a distance of 1.0 mile.

- **Scope of work necessary.** *Rated medium development.* Access to this segment is from Hamre 17. This segment is on the spoil of JD 34. When this ditch was cleaned with a backhoe the spoil was not leveled. It will need to be leveled before use. Access from Hamre #7. Judicial Ditch 34.
- **Connectivity/dead end.** This proposed trail segment would connect to Hamre #7 and #17. Utilized by GIA proposal.
- **Expected segment use.** High, recreational.

**Hamre #17.** This segment of proposed trail begins at the southwest corner of section 22-155-37. It proceeds north 0.5 mile to connect with Hamre #16. The proposed trail is on or adjacent to WMA lands, identified as Hamre Wildlife Management Area, for a distance of 0.5 miles.

- **Scope of work necessary.** *Rated low development.* There is no access to this segment without some type of low water crossing. Preferable access from the south off Thorhult Road. Branch off Judicial Ditch 34
- **Connectivity/dead end.** This proposed trail segment would connect to Hamre #16. Utilized by GIA proposal.
- **Expected segment use.** High, recreational.

**Lee #2c.** This segment of proposed trail begins at the southeast corner of section 21-155-38 and proceeds north 1.75 miles to end at private lands in the northeast corner of SWNWNW section 16-155-38. The ditch for the entire 1.75 miles is along the east side of the ditch grade and is between 3.3 feet and 6.6 feet below the ditch grade. There is evidence of motorized use, including ATVs. The proposed trail is on or adjacent to WMA lands, identified as Willow Run Wildlife Management Area, for a distance of 1.75 miles.

- **Scope of work necessary.** *Rated low development.* A low water crossing is required to access. Trail is on grade. Ready for use, treadway appears to only need mowing.
- **Connectivity/dead end.** This segment of proposed trail would connect to Lee #2B with large crossing
- **Expected segment use.** Low, primarily access

**Lee #6.** This segment of proposed trail begins at the southwest corner of section 13-155-38 and proceeds south 1.75 miles to end at private lands in the northeast corner of SENE section 11-155-38. The ditch for the entire 1.75 miles is along the east side of the ditch grade and is between 3.3 feet and 6.6 feet below the ditch grade. There is evidence of motorized use, including ATVs. The proposed trail is on or adjacent to WMA lands, identified as Wolf Trail Wildlife Management Area, for a distance of 1.75 miles.

- **Scope of work necessary.** *Rated low development.* Access is from the north end off #700. Trail is on grade. Ready for use, Treadway appears to only need mowing.
- **Connectivity/dead end.** This segment of proposed trail would connect to Hamre/Lee #5 with large crossing. Dead end at south currently.
- **Expected segment use.** Low, primarily access

**Lee #7.** This segment of proposed trail begins at the northwest corner of section 11-155-38 and proceeds 0.75 mile east. The ditch grade and is between 4.7 feet below the ditch grade. There is evidence of motorized use, including ATVs, on the entire 0.75 mile. The proposed trail is located on the grade south of the road on WMA lands, identified as Wolf Trail Wildlife Management Area, for a distance of 0.75 mile.

- **Scope of work necessary.** *Rated medium development.* There is no access to this segment off #700. If access is off Hamre Road (east end of segment) needs brushing, needs crossing and culvert. Ditch is 30' across and 6' below grade. 48" culvert in same ditch. Some work will be needed to access this segment from the north end of Lee #5 (culvert). Br 177, Judicial Ditch 34.
- **Connectivity/dead end.** This segment of proposed trail is a dead-end with no access. Would connect to Lee #5 with a culvert, which is part of proposed GIA trail. Plan to connect to Lee #5 lower scope of work. Not part of current GIA proposal.
- **Expected segment use.** Medium, access.

**Lee #8.** This segment of proposed trail begins at the southeast corner of section 6-155-38 and proceeds north 0.5 mile. There is evidence of motorized use, including ATVs, on the entire 3 miles. The proposed trail is on or adjacent to WMA lands, identified as Willow Run Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated low development.* Access is from Hamre Road (minimum maintenance), south end. There is a crossing here now, trail is on grade. Ready for use.
- **Connectivity/dead end.** This segment of proposed trail connects to Lee #4. Not part of current GIA proposal.
- **Expected segment use.** Low, primarily access.

**Lee #9.** This segment of proposed trail begins at the junction of a high north-south ditch grade and Beltrami County Road #709 at the northwest corner of NENE section 26-155-38 and proceeds south 1.0 mile. The ditch for the entire 1

mile is along the east side of the ditch grade and is between 3.3 feet and 6.6 feet below the ditch grade. There is evidence of motorized use, including ATVs, on the entire 1.0 mile. The trail is on the adjacent ditch grade. The proposed trail is on or adjacent to WMA lands, identified as Carmelee Wildlife Management Areas, for a distance of 1.0 mile.

- **Scope of work necessary.** *Rated low development.* *There is no present access to this segment at the corner of Lee 9 and Lee 2A. Culvert off Magnum Road NW needs to be installed in shallow ditch to allow access. County Ditch 20 along Lee 2A.*
- **Connectivity/dead end.** *This segment of proposed trail connects to Lee #2A. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Lee #10.** This segment of proposed trail begins at the northeast corner of NWNE section 29-155-38 and proceeds west 1.5 miles to the northwest corner of NENW section 30-155-38. the ditch is Judicial Ditch #20. There is evidence of motorized use, including ATVs, on the entire 1.5 miles. The trail is on the ditch grade adjacent to the road. The proposed trail is on or adjacent to WMA lands, identified as Carmelee and Willow Run Wildlife Management Areas, for a distance of 1.5 miles.

- **Scope of work necessary.** *Rated high development to connect. Low with easements.* *There is no access across County Ditch 20. 0.6 miles from the west end of this segment will need a culvert to go in ravine that cuts through grade. 0.7 miles from the west end will also need a culvert. Will be no small feat to get fill across the ditch to do these. There is a possible access on private property at the intersection of Sharon Road and Thorhult Road. Would not need a bridge if access could be gained here/works for both sides. Pursuing a paid easement may be the best option for access. County Ditch 20.*
- **Connectivity/dead end.** *This segment of proposed trail would connect trails to the east and west if a GIA proposal would be made for these segments. Not part of current GIA proposal.*
- **Expected segment use.** *High, access.*

**Northwood #6.** This segment of proposed trail begins at the northwest corner of northeast section 20-157-38. It proceeds east for 0.50 miles, then turns south for a distance of 0.50 miles to the northeast corner of southeast section 20-157-38. East/West segment runs parallel to White Wolf Road on the south side of the ditch. North/South segment runs parallel to Wildlife Road 701 on the west side of the ditch. The proposed trail is on WMA lands identified as Wapiti Wildlife Management Area, for a total distance of 1.0 miles.

- **Scope of work necessary.** *Rated medium development.* *There is no present access to this segment. South culvert/crossing off Wildlife Road 701. Branch 50, Judicial Ditch 11, East/West segment. North/South segment DNR ditch. Treadway appears to only need mowing.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel north along Wapiti Road NW to segment Northwood #2 and #3 of Phase I. GIA on Beltrami County Road 701. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

## MARSHALL COUNTY

**Como #5a.** This segment of proposed trail begins at the southwest corner of the NW 17-158-42 and proceeds north 0.5 mile along the east side of Branch C – Judicial Ditch #19. The surface of the proposed trail is raised less than 1.0 foot from ground level. This is a ditch grade across the ditch from the graveled, graded and maintained Township road described in Como #5. The ditch is located along the west side of the ditch grade for the entire distance of the proposed trail and is 5.90 feet below the surface of the proposed trail. The proposed trail is on or adjacent to WMA lands, identified as Thief Lake Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated low development.* *There is a crossing with culvert at approximately the halfway point on trail section, off 170 Avenue NE, that would provide access to this segment. Treadway appears to only need mowing and signing.*
- **Connectivity/dead end.** *At the north end of the proposed trail segment the trail dead-ends and the ditch grade continues through private property. Not part of current GIA proposal.*
- **Expected segment use.** *Low, primarily access.*

**Como #5b.** This segment of proposed trail begins at the southeast corner of the NW 17-158-42 and proceeds west 0.5 mile to its terminus in the southwest corner of NW 17-158-42. The surface of the proposed trail is raised less than 1.0 foot from ground level. This is a ditch grade across the ditch from the graveled, graded and maintained Township road described in Como #5. The ditch is located along the north side of the ditch grade of Branch E, Judicial Ditch #19 for the entire distance of the proposed trail. The proposed trail is on or adjacent to WMA lands, identified as Thief Lake Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated low development.* *Treadway appears to only need mowing and signing.*
- **Connectivity/dead end.** *Connects to Como #5a. Not part of current GIA proposal.*
- **Expected segment use.** *Low, primarily access.*

**Linsell #3a.** This segment of proposed trail begins on the ditch grade on the east side of Marshall County Township Road #134 at the SWNW 15-158-39. It proceeds north 0.5 mile adjacent to DNR WMA land located on the east side. The ditch, Branch A – B.M. Judicial Ditch #21, is located along the west side of the ditch grade for 0.5 mile of the proposed trail and is 6.9 feet below the surface of the proposed trail. The grade height is raised 1.5 feet above ground level. The ditch, Branch 31 – Beltrami Marshall Judicial Ditch 21, is located along the east side of the ditch grade for 0.5 mile of the proposed trail and is 7.6 feet below the surface of the proposed trail. The proposed trail is on or adjacent to WMA lands, identified as Thief Lake Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated medium development. There is no access to this segment without a culvert – need to cross the ditch to access from the road. Ditch is 7' deep and 30" wide (road grade). Private crossing to the south of this segment has 30" culvert. See Linsell 8. Branch 31, Judicial Ditch 21.*
- **Connectivity/dead end.** *Connects to Linsell #8. Travel along the township road connects this segment to Linsell #4. Not part of current GIA proposal.*
- **Expected segment use.** *Low, primarily access*

**Linsell #8.** This segment of proposed trail begins on the ditch grade on the south side of Marshall County Township Road #134 at the northwest corner of section 15-158-39. It proceeds east 0.5 mile on DNR WMA land located on the south side. The ditch, Branch A – B.M. Judicial Ditch #21, is located along the north side of the ditch grade for 0.5 mile of the proposed trail and is 6.9 feet below the surface of the proposed trail. The grade height is raised 1.5 feet above ground level. The proposed trail is on WMA lands, identified as Thief Lake Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated high development. Low if connected from Linsell #3a. There is no access to this segment without a culvert or a culvert on Lee 3a. Need to cross big ditch at east end of segment. Ditch is approximately 10' deep from road grade/50' across. Present culverts are two 78" concrete in ditch at private crossing. One culvert could access both Linsell 3A and Linsell 8. Branch A, Judicial Ditch 21.*
- **Connectivity/dead end.** *Connects to Linsell #3A. Not part of current GIA proposal.*
- **Expected segment use.** *Low, primarily access.*

**Linsell #9.** This segment of proposed trail begins on the ditch grade on the west side of Marshall County Road #54 at the SENE 12-158-39. It proceeds north 0.5 mile. The proposed trail is on or adjacent to WMA lands, identified as Thief Lake Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated low development. Runs parallel to Marshall County Hwy 54 – west side. Access from 450 Street NE on north end of segment and at midpoint, reduced ditch grade at this location. Treadway appears to only need mowing. Branch 34, Judicial Ditch 21.*
- **Connectivity/dead end.** *Travel along County Hwy #54 south for 0.50 miles connects this segment to Big Grass #1. GIA proposal would connect this segment to Big Grass #1 and Linsell #10.*
- **Expected segment use.** *High, recreational.*

**Linsell #10.** This segment of proposed trail begins on the ditch grade on the west side of Marshall County Road #54 at the southeast corner of section 24-158-39. It proceeds north 1.5 miles. The proposed trail is on WMA lands, identified as Thief Lake Wildlife Management Area, for a distance of 1.5 mile.

- **Scope of work necessary.** *Rated low development. Runs parallel to Marshall Co. Hwy 54 on west side of road. Access provided by crossing in section 13 of Linsell township. Not much water flow. Mow/Go. Branch 10, Moose River, Judicial Ditch 11.*
- **Connectivity/dead end.** *This segment is key to making a connection between the northern and southern segments. GIA proposal would connect to Big Grass 1 and Big Grass/Northwood #5 and Linsell #9. GIA would utilize this segment.*
- **Expected segment use.** *High, recreational.*

**Valley #1.** The segment of proposed trail begins at the southwest corner of section 18-156-39 and proceeds north 0.5 mile. The trail is on the east grade of Branch 167 – Marshall Judicial Ditch 11. The ditch is 11.0 to 11.5 feet below grade. Surface grade is raised 1.1 feet with surface materials consisting of dirt. The proposed trail is on or adjacent to WMA lands, identified as Valley Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated high development. No access to this segment without a large bridge or large box culverts. Ditch 15-20' below grade/70' wide. Branch 50, Judicial Ditch 11.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel west along the ditch grade and township roads to Hwy 89, does provide access. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #11.** This segment of proposed trail begins at the NWNE 25-155-39 and proceeds east 0.5 mile, following the east-west ditch grade along the south side of County Ditch 20. The proposed trail is on or adjacent to WMA lands, identified as Sem Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated medium development. Low with easement. There is no access to this segment that runs on the south spoil of County Ditch 20 parallel to Marshall County #2. Access to this segment will be from Espelie 17 when complete. Small crossing to connect to #17. County Ditch 20.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade and township roads to Espelie #4 and #3 and from #17. The proposed trail segment is adjacent to private lands on the east and south. A township road is on the west end. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #12.** This segment of proposed trail begins at the NWNE 8-155-39 and proceeds east 0.5 mile. The proposed trail is on WMA lands, identified as Sem Wildlife Management Area, for a distance of 0.5 mile.

- **Scope of work necessary.** *Rated low development. Access is at parking lot Espelie WMA off #53. Treadway appears to only need mowing.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade to Espelie/Valley 2A. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #13.** This segment of proposed trail begins at the NE 18-155-39 and proceeds west 0.75 mile, following the east-west ditch grade along the south side of Branch 179 Marshall Judicial Ditch 11. The proposed trail is on WMA lands, identified as Espelie Wildlife Management Area, for a distance of 0.75 mile.

- **Scope of work necessary.** *Rated high development. There is no present access to this segment. A short distance into this segment, from the east, there is a small drainage ditch that will require a small crossing on the treadway. The west end of the segment would require a large culvert or bridge for access. Ditch is 25' wide and 8' below grade. Crossing at east end access to #14. Branch 200, Judicial Ditch 11.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade to Espelie #14 and #16. A township road is on the west end. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #14.** This segment of proposed trail begins at the SE corner of section 8-155-39 and proceeds west 1.0 mile, following the east-west ditch grade along the north side of Branch 179 Marshall Judicial Ditch 11. At the SW corner of section 8-155-39 the trail turns and proceeds north 0.25 mile. The proposed trail is on to WMA lands, identified as Espelie Wildlife Management Area, for a distance of 1.25 miles.

- **Scope of work necessary.** *Rated low development. At east end, access off Marshall County #53. Ready for use. Treadway appears to only need mowing. At west end will need culvert to gain access to north/south segment which is on grade. Branch 179, Judicial Ditch 11.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade to Espelie #13 and Espelie #15. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #15.** This segment of proposed trail begins at the southeast corner of the NENE section 7-155-39 and proceeds north 0.25 mile, at the northeast corner of section 7-155-39 the trail proceeds west 0.75 mile. The proposed trail is on or adjacent to WMA lands, identified as Espelie Wildlife Management Area, for a distance of 1.0 mile.

- **Scope of work necessary.** *Rated medium development. Access already present to north/south segment is from the south which is on the grade. At the north end of this segment access could be gained to the east/west segment with hardening or culvert. Branch 179, Judicial Ditch 11.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade to Espelie #1, Espelie #16, Espelie #13, Espelie #14, Espelie #12, and Espelie/Valley #2A. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #16.** This segment of proposed trail begins at the southwest corner of section 7-155-39 and proceeds north 1.0 mile, at the northeast corner of section 12-155-39 the trail proceeds west 0.25 mile and ends at the corner of the NWNE of section 12-155-40 The proposed trail is on or adjacent to WMA lands, identified as Espelie Wildlife Management Area, for a distance of 1.25 miles.

- **Scope of work necessary.** *Rated low development, landowner contact needed to confirm property lines. Access is from the south end of the segment off 260th St NE. A culvert on treadway is needed at the half-mile mark of the north/south segment if landowner is okay with crossing. South ½ is mow & go. North ½ is mow/brush. Extension of Branch 173? DNR? Judicial Ditch 11.*

- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade to Espelie #13 along 260 St NE at the south end of segment and #15 along 270 St NE at the north end of segment. The proposed trail segment is adjacent to private lands on the east and south. A township road is on the west end. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie/Valley #2a.** This segment of proposed trail begins at the southwest corner of 5-155-39 and proceeds east 0.5 mile, turns north 0.5 mile, then east 0.5 mile turns north 0.25 mile, west 0.5 mile, north 0.25 mile west 0.25 mile north 0.5 mile and west 0.25 mile at the northwest corner of SW 32-156-39. The proposed trail is on or adjacent to WMA lands, identified as Espelie Wildlife Management Area, for a distance of 3.5 miles.

- **Scope of work necessary.** *Rated mixed high development and low development. Access is off Marshall County #53. Access also available from 270<sup>th</sup> Street NE. This segment will require landowner contact, and survey before work to use all parts of trail.*
- **Connectivity/dead end.** *This segment of proposed trail would connect to Espelie/Valley #2, Espelie #1, and Espelie #15. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Espelie #17.** This segment of proposed trail begins at the northwest corner of NE 25-155-39 and proceeds south 1.0 mile, at the southeast corner of section 25-155-39 the trail proceeds west 0.5 mile then north 0.5 mile then east 0.5 mile and ends at the corner of the NESW 25-155-39 Ditches on both sides. The proposed trail is on or adjacent to WMA lands, identified as Espelie Wildlife Management Area, for a distance of 2.5 miles.

- **Scope of work necessary.** *Rated high development and low development. There is access to this segment from a crossing off Hwy #54 – southwest corner of section 25. Needs mowing/some brushing. Will need landowner contact for north ½ of north/south segment on east side in SENE section 5.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel to west to Espelie #3 and #4. Travel to the north will connect to Espelie #11 and Lee #10. Also Lee 2B and 2A of Phase I. Not part of current GIA proposal.*
- **Expected segment use.** *Medium, access.*

**Moylan #1a.** This segment of proposed trail begins at the NW corner of the NE 9-155-40. It proceeds east 0.75 mile. The surface grade is raised 1.1 feet above ground level. The ditch is located along the south side of the ditch grade for the entire 0.75 mile distance of the proposed trail and is 8.7 feet below the surface of the proposed trail. There is also ditch grade on the south side of the ditch. The proposed trail is on or adjacent to WMA lands, identified as Moylan Wildlife Management Area, for a distance of 0.75 mile.

- **Scope of work necessary.** *Rated high development. No present access to this segment, or Moylan 1B or 1C, without a culvert. One crossing will access Moylan 1A, and tie all three Moylan segments together. Branch 183, Judicial Ditch 11.*
- **Connectivity/dead end.** *The proposed trail may be connected by travel along ditch grade to Moylan 1B and 1C. Not part of current GIA proposal.*
- **Expected segment use.** *High, access.*

**Moylan #1b.** This segment of proposed trail begins at the NWN corner of 9-155-40. It proceeds south 0.25 miles. The surface grade is raised 1.1 feet above ground level. The proposed trail is on or adjacent to WMA lands, identified as Moylan Wildlife Management Area, for a distance of 0.25 mile.

- **Scope of work necessary.** *Rated low development. No present access to this segment. One crossing will access Moylan 1A, and tie all three Moylan segments together.*
- **Connectivity/dead end.** *This segment of proposed trail connects to Moylan 1A. Not part of current GIA proposal.*
- **Expected segment use.** *High, access.*

**Moylan #1c.** This segment of proposed trail begins at the NE corner of the NWNW 10-155-40. It proceeds south 0.25 mile. The proposed trail is on or adjacent to WMA lands, identified as Moylan Wildlife Management Area, for a distance of 0.25 mile.

- **Scope of work necessary.** *Rated low development. No present access to this segment. One crossing will access Moylan 1A, and tie all three Moylan segments together.*
- **Connectivity/dead end.** *This segment of proposed trail connects to Moylan 1A. Not part of current GIA proposal.*
- **Expected segment use.** *High, access.*