

BOC JOINT WORKS INFRASTRUCTURE & SPECIAL ITEMS SUMMARY
Wood River Valley Irrigation District 45 (D45) & Triangle Irrigation District (TID) and the Cove
Irrigation District (CID)

Assets, Prioritization, Budgets and Schedule for Improvements and Maintenance

19 OCTOBER, 2016 - FINAL

The intent of this document is to inventory all of the Joint Works Assets, area of improvements and maintenance and new equipment "SPECIAL ITEMS". Additionally this summary provides budgeting and prioritization of said special items. This was produced through mutual effort from individuals of the TID, WRVID #45, CID as well as BOC directors and staff. This document can be used in the following years and be updated annually as all formatting and tracking is made integral. This is to be a visual representation of the condition of the infrastructure as well as to outline current and future needs as well as being a technical summary.

Organization:

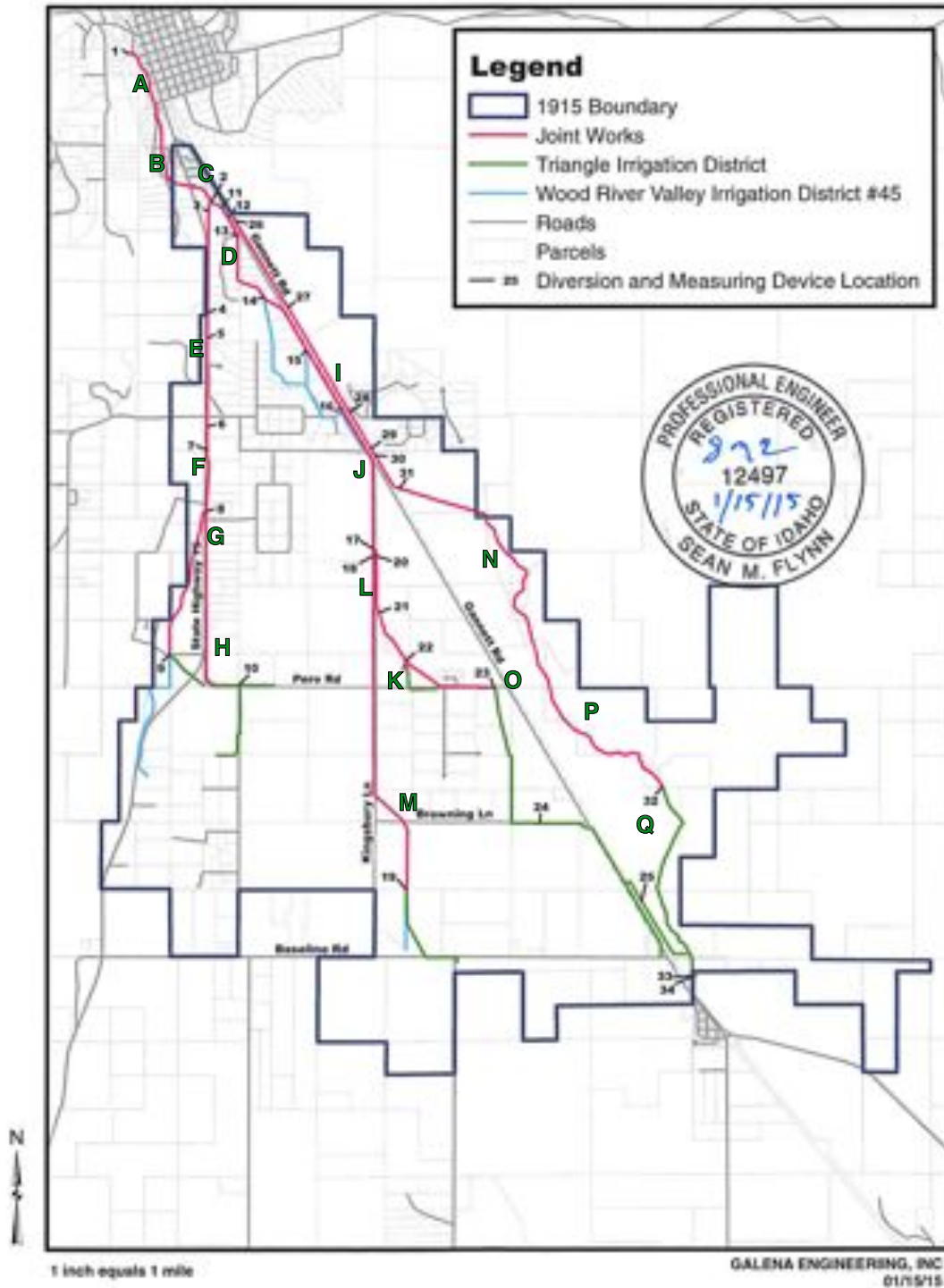
The order of the photos, descriptions, budgets etc. all follow the "Wood River Valley Irrigation district #45 and Triangle Irrigation District Joint Works map."

Budgets of "SPECIAL ITEMS" -Repairs/Upgrades/ Maintenance/ New Equipment:

Special Projects/Upgrades (Items 1-32) -In all instances other than routine maintenance of tree/bush cutting, herbicide application, burning etc. cost estimate pricing is from 3rd Party Suppliers or Subcontractors. The BOC may be able to have it's own staff perform many of the repairs/upgrades "in-house" in its entirety, with labor, or in tandem with subcontracts for financial savings.

Special Maintenance (Items A-Q)- On the attached Google Earth photos areas are defined be lettered nomenclature on the "Wood River Valley Irrigation district #45 and Triangle Irrigation District Joint Works map." These areas have work descriptions pertaining to special projects with budgets and prioritization. Additionally a new seed program for reseeding after burning of weeds as well as a annual limited budget for excavator service is proposed and noted at the end the end of this section

WOOD RIVER VALLEY IRRIGATION DISTRICT #45 AND TRIANGLE IRRIGATION DISTRICT JOINT WORKS



I. "SPECIAL ITEMS"

Infrastructure /Repairs/Upgrades

1a. Main Gate

Condition: Entire main gate steel, concrete etc. is in good condition

Repairs/upgrades: Major leaks at north gate. The assumption is that by fixing the gate the earthen berm annually would not be needed.

Schedule Recommendations: Gate repair fall 2018



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
		\$120,000		
1A.1	WELD STL MESH GRATE		\$0	2017
1a.2	MAIN GATE REPAIR	\$0	\$6,000	2018

1b. Main Gate Area –Retaining Wall

Condition: Fair condition- has public falling concern

Repairs/upgrades: Continue to maintain wall until failure, then install a poured concrete wall.

Schedule Recommendations: Long-term, 4 years+



	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
1b.1	CONCRETE RETAINING WALLS	\$12,000	\$15,000	2019
1b.2	NO TRESSPASSING SIGNS	\$0	\$68	2019

1c. Main Gate Area –River Retaining

Condition: Fair condition- has public falling concern, is eroding and will need to be amended.

Repairs/upgrades: Demo and install new Concrete Retaining Wall

Schedule Recommendations: Long-term, 3+ years. Districts should budget a contingency fund for this likely expensive repair that WILL be needed in the event of a high water year.



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
1c	DEMO- NEW RIP RAP	\$9,000	\$6,500	2019

1d. Main Gate Area -Bridge

Condition: Fair condition- has public and staff safety concerns.

Repairs/upgrades: **OWNED BY D37.**
The BOC should recommend they have safety gates installed on each end similar to main gate.

Schedule Recommendations: Safety end gates for the public next season.



1e. Main Gate Area –Monitor Station

Condition: Good condition- no upgrades necessary

Repairs/upgrades: none

Schedule Recommendations: **OWNED BY D37.**



1g. Main Gate Area – Gate and Signage

Condition: Fair

Repairs/upgrades:

Schedule Recommendations:



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
1g		\$0	\$0	0

2a. Ed's Drop – Spill Pool/Seepage

Condition: poor

Repairs/upgrades: Flow testing to determine ditch losses over various seasons, and years.

Schedule Recommendations:



	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
2a		\$20,000	\$0	0

2b. Ed's Drop– Bridge

Condition: fair

Repairs/upgrades:

Schedule Recommendations:



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
2b	FIX/ADD ONE PLANK BUDGET IN GENERAL MAINTENANCE	\$400	\$0	2017

2c. Ed's Drop– Gates

Condition: Good

Repairs/upgrades:

Schedule Recommendations:



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
2c	NO REPAIR- GATE STRUCTURE	\$32,000	\$0	N/A
2c	NEW WALKING PLANKS, CUT ANCHOR BOLTS - COVERED IN GENERAL MAINTENANCE BUDGET	\$0	\$0	2017
2c	NEW SAFETY FENCE GATES	\$0	\$600	2019

**2d. Ed's Drop OWNED BY
MATT THORNTON**

Condition: Poor

Repairs/upgrades: Need to remove old not used conc. structure- rumor is that this is the property owners and that they will remove. BOC to follow up with owner.

Schedule Recommendations: 2017



3. Hwy. 75 Staff Gauge

Condition: Good

Repairs/upgrades: N/A

Schedule Recommendations: N/A



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
3	N/A	\$3,500	\$0	N/A

4. Meyers Diversion

Condition: Fair

Repairs/upgrades: Wider/ better planks have been installed. Repair of failed wing wall with face steel panel epoxy bolted/ masonry screwed to conc. Install a culvert for access

Schedule Recommendations: 2017



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
4	EXISTING STRUCTURE	\$3,000	\$0	N/A
4	NEW WING WALL/REPAIR & CULVERT	\$0	\$1,300	2017

5. Silver Creek Farms Check

Condition: Good

Repairs/upgrades: New planks had been added.

Schedule Recommendations: N/A



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
5		\$3,500	\$0	

8. Walker Diversion

Condition: poor

Repairs/upgrades: Need new steel channel for top cross piece at gate, Excavate gravel deposit at Walker side. BOC to talk with ITD about too small of a culvert, sedimentation build up issue to see if they will help \$\$

Schedule Recommendations: 2017



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
8	EXISTING STRUCTURE	\$17,000	\$0	N/A
8	NEW METAL GATE,	\$0	\$0	2019
8	NEW STEEL CHANEL FOR TOP OF WHEEL & EXCAVATE GRAVEL ON WEST SIDE PER ITD	\$0	\$1,900	2017

9. Walker South

Condition: Fair

Repairs/upgrades:

Schedule Recommendations:



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
9	EXISTING STRUCTURE	\$1,200	\$0	N/A
9	NEW CONC. STRUCTURES	\$0	\$0	2019+

10. Pero "T"

Condition: Very Good

Repairs/upgrades: None

Schedule Recommendations: N/A



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
10	N/A	\$7,500	\$0	N/A

11. Gannett Diversion

Condition: Fair

Repairs/upgrades: (1) bays need gates installed or annual temporary filler panel, Center diverters need concrete reinforcement as well as spillways

Schedule Recommendations: 2017 & 2019+



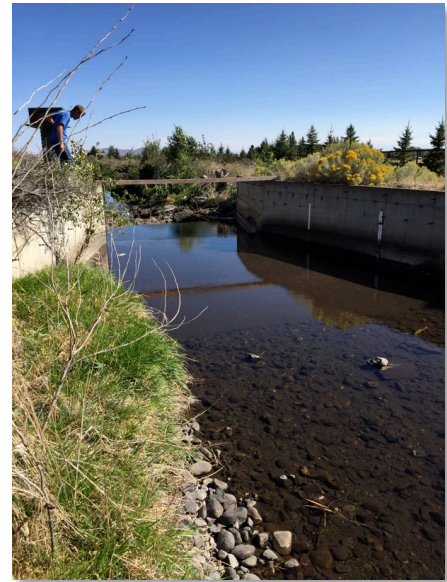
LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
11	EXISTING STRUCTURE	\$49,000	\$0	N/A
11	TEMP GATE PANEL	\$0	\$100	2017
11	SECURE PLANKS- COVERED IN GENERAL MAINTENANCE BUDGET	\$0	\$0	
11	FIX CONC. LEAKS	\$0	\$150	2019
11	REPAIR CENTER DIVERTERS, CONC. SPILLWAY	\$0	\$2,500	2019

12. W. Gannett/ Kingsbury Parshal Flume

Condition: Good

Repairs/upgrades: None

Schedule Recommendations: N/A



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
12	N/A	\$7,800	\$0	N/A

14. Bellevue Farms North

Condition: Good

Repairs/upgrades: Planks have been replaced, check boards replaced, diversion upgraded. Install a culvert for access. Excavator fees will come from the regional budgets later on in this packet.

Schedule Recommendations: N/A



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
14	EXISTING STRUCTURE	\$16,500	\$0	N/A
14	METAL GATE FOR (1) BAY	\$0	\$750	2018
14	CONC. SLAB AT DROP	\$0	\$1,200	2018
14	NEW BRIDGE FOR DRIVE THRU ACCESS- BRIDGE/CULVERT, FILL, EXCAVATOR	\$0	\$500	2017

15. Bellevue Farms South

Condition: Good

Repairs/upgrades: Make seats for drop boards

Schedule Recommendations: 2019+



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
15	EXISTING STRUCTURE	\$3,400	\$0	N/A
15	"C" CHANEL SLOTS FOR DROP PLANKS	\$0	\$0	

16. Bellevue Farms Drop

Condition: Fair

Repairs/upgrades: Long-term may need cobble fill or conc. repair or full removal then grading to solve a future “creep back “ potential

Schedule Recommendations: N/A



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
16	N/A	\$7,500	\$0	N/A

17. Struthers North

Condition: Fair

Repairs/upgrades: Planks have been replaced, (1) New metal gate, (2) metal frame for gates

Schedule Recommendations: 2019



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
17	EXISTING STRUCTURE	\$16,500	\$0	N/A
17	METAL GATE FOR (1) BAY, METAL FRAME FOR (2) GATES AT TOP	\$0	\$1,850	2019
17		\$0	\$0	N/A

18. Struthers Gauge West

Condition: Good

Repairs/upgrades: New Planks have been installed.

Schedule Recommendations:



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
18	EXISTING STRUCTURE	\$4,500	\$0	N/A
18		\$0	\$0	0

19. Baseline Divide

Condition: Poor

Repairs/upgrades: Need Gate to D45 ditch, (1) closure going east. Need from private users Stevenson Diversion Gate and Jarmuz Gate.

Schedule Recommendations: 2017



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
19	EXISTING STRUCTURE	\$12,000	\$0	N/A
19	(1) CLOSURE, FOR EAST LEG & (1) GATE	\$0	\$0	-
19	NEW PLANKS- COVERED IN GENERAL MAINTENANCE BUDGET	\$0	\$0	

20. Struthers Gauge East

Condition: Good

Repairs/upgrades: Get re-certified /improve as req. for future monitoring use.

Schedule Recommendations: 2018



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
20	N/A	\$4,500	\$1,200	2018

21. Struthers Pond

Condition: Fair

Repairs/upgrades: Need to install a proper check .Concrete with concrete entrance/spillway

Schedule Recommendations: 2019



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
21	CONCRETE CHECK AND SPILLWAY	\$2,200	\$1,000	2019

22. Rinker's Pit

Condition: Good

Repairs/upgrades: wider planks
have been installed

Schedule Recommendations:



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
22			\$0	0
22		\$12,000	\$0	0

23. Beck's Diversion

PRIVATELY OWNED/TID

Condition: Good

Repairs/upgrades: New planks have been installed. Needs a private diversion installed

Schedule Recommendations:



26. Rinker Diversion

Condition: Good

Repairs/upgrades: Remove Concrete chunk on side of ditch

Schedule Recommendations: 2019



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
26	N/A	\$0	\$0	N/A

27. Gannett East Staff Gauge

Condition: Very Good

Repairs/upgrades: We can/ will design our own flow measurement table

Schedule Recommendations: N/A



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
27	N/A	\$4,500	\$0	0

28. Griffin Ranch

PRIVATELY OWNED

Condition: Very Good

Repairs/upgrades: None

Schedule Recommendations: N/A



LOCATION #	REPAIR/UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/UPGRADE	PRIORITY
28	N/A	\$8,500	\$0	N/A

29. Cove Staff Gauge

Condition: Very Good

Repairs/upgrades: None

Schedule Recommendations: N/A



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
29	N/A	\$4,500	\$0	N/A

31. Cove Diversion

Condition: Very Good

Repairs/upgrades: None

Schedule Recommendations: N/A



LOCATION #	REPAIR/ UPGRADE	CURRENT (REPLACEMENT) VALUE	BUDGET OF REPAIR/ UPGRADE	PRIORITY
31	N/A	\$3,200	\$0	N/A

I. “SPECIAL ITEMS” Continued

Special Maintenance

Note: All areas of these maps will have annual general maintenance with burning, cutting, herbicides, chipping, mowing etc. This category is only listing Special Maintenance projects.



A. HOWARD PRESERVE

Removal of Large trees/Provide access to one side of the ditch in this area. It is understood that this is a sensitive area as a park/preserve. Coordination with the stakeholders is necessary. Long-term plan for a few trees per year is recommended on one side of the ditch only and in intermittent areas.

LOCATION #	REPAIR/ UPGRADE	TREES PER YEAR	ANNUAL BUDGET OF MAINTENANCE	PRIORITY
A	REMOVE OF TREES FOR ACCESS	3	\$1,500	2019



B. GLEN ASPEN

Monies to be applied for the removal and or trimming, topping, of dangerous dead standing, risk of falling, establish certain maintenance access areas, safety related issues of trees solely on the mutually owned irrigation districts property, these monies are not for clear cutting of trees. Misc. annual deadfall clean up and trimming, burning- in general maintenance budget.

LOCATION #	REPAIR/ UPGRADE		ANNUAL BUDGET OF MAINTENANCE	PRIORITY
B	REMOVE OF TREES FOR/ SAFETY & ACCESS		\$10,000	2017



C. ED'S DROP

Removal of Large trees / debris consolidation with aide from excavator company done annually for (2) years for work in this area as well as a few other locations noted later. For this upcoming season a lump sum fee is applied for minor stump removal and prep for burning to finish work started many years past. Misc. annual clean up, herbicide, and trimming, seeding burning- in general maintenance budget.

LOCATION #	REPAIR/ UPGRADE		EXCAVATOR SERVICE FEE	PRIORITY
C	MINOR STUMP REMOVAL/		\$500	2017



D. LABRADOR LANE

For this upcoming season a lump sum fee is applied for minor stump removal and prep for burning to finish work started many years past. Misc. annual clean up, herbicide, and trimming, seeding burning- in general maintenance budget. A dozer to shape berms and blade for mowing

LOCATION #	REPAIR/ UPGRADE	EXCAVATOR SERVICE ANNUAL FEE	PRIORITY
D	BERM SHAPING, DEBRIS REMOVAL AND BLADING FOR MOWING	\$500	2017



E. NORTH QUARTER HORSE

Misc. annual clean up, herbicide, and trimming, seeding burning- in general maintenance budget.

LOCATION #	REPAIR/ UPGRADE		EXCAVATOR SERVICE ANNUAL FEE	PRIORITY
E				



F. GLENDALE ROAD

A few stumps to be removed, shape berms, create freeboard. General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
F	AQUIRE FREE FILL, SHAPE W/EXCAVATOR FOR FREEBOARD		\$500	2017
F	N/A		\$0	N/A



G. DERBY ROAD

Back-hoe and excavator work at Walker diversion, and 100' past- monies in special projects long term. General annual maintenance covers this area and entails: herbicide, weed/brush removal, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
G	EARTH WORK FOR SHAPING DITCH FOR BETTER FLOWS		\$0	2017



H. PERO ROAD

General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
H	N/A		\$0	N/A



I. GRIFFIN RANCH

General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
I	N/A		\$0	N/A



J. KINGSBURY/GANNET

For this upcoming season a lump sum fee is applied for minor stump removal and prep for burning to finish work started many years past. Any excavation work – monies will come from special projects long term. General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
J			\$0	0



K. Rinker's Pond

General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
K			\$0	N/A



L. KINGSBURY ROAD

General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
L	N/A		\$0	N/A



M. BROWNING

General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
M	N/A		\$0	N/A



N. Cove North

General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding. BOC to coordinate and perform work in this area

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
N	N/A		\$0	N/A



O. Pero Road East

No Special Maintenance for this area. General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding. BOC to coordinate and perform work in this area(Cove Side).

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
0	N/A		\$0	N/A



P. Cove Middle

No Special Maintenance for this area. General annual maintenance covers this area and entails: herbicide, weed/brush removal, chipping, burning, seeding. BOC to coordinate and perform several days work in this area

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
P	N/A		\$0	N/A



Q. Cove South

No Special Maintenance for this area.

LOCATION #	REPAIR/ UPGRADE		EXPENSE	PRIORITY
Q	N/A		\$0	N/A

**I. “SPECIAL ITEMS” Continues
Demonstration Concept**

- **Excavator/Bull Dover** : The intent is to hire an excavation firm or an excavator for one entire week. He/we will work in selected areas for grading, shaping, debris removal. He/we will cover as much distance as is possible. The plan is to make the ditches on each side easier for annual maintenance. The goal being that trees, shrubs, and weeds would be gone/ removed on the east side, the possibility of leaving sage, and small berry bushes on west side as tumble weed catches. Then, circulation for a vehicle would be on the east side, and the west side would be smoothed for mowing over of trapped tumble weeds. Grass seeding would occur for disturbed areas. Vegetation would be stock piled and burned. This is a demonstration project /concept test.

LONGTERM IMPROVEMENTS- ANNUAL IMPROVE DITCHES INFRASTRUCTURE			
#	ITEM	COST	PRIORITY
1	LONG TERM IMPROVEMENT HEAVY EQUIPMENT/ SEEDING	\$8,600	2017
2		\$0	0
3		\$0	0
4		\$0	0
5		\$0	0