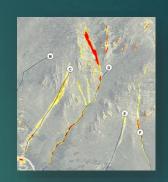


Master Plan Update

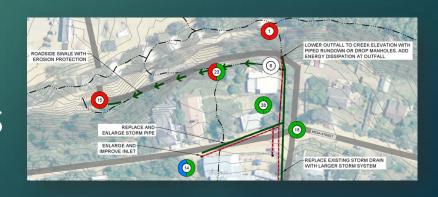
Debris Flow – Mitigation for High Risk Drainages



Creeks – Recommendations & Modeling Results



Local Drainage – Proposed Improvements



Prioritization Criteria

Life Safety – Does it threaten loss of life?

Structure Damage – Does it cause structural damage?

Access – Does flooding/issue inhibit access?

Maintenance – What is the current maintenance effort?

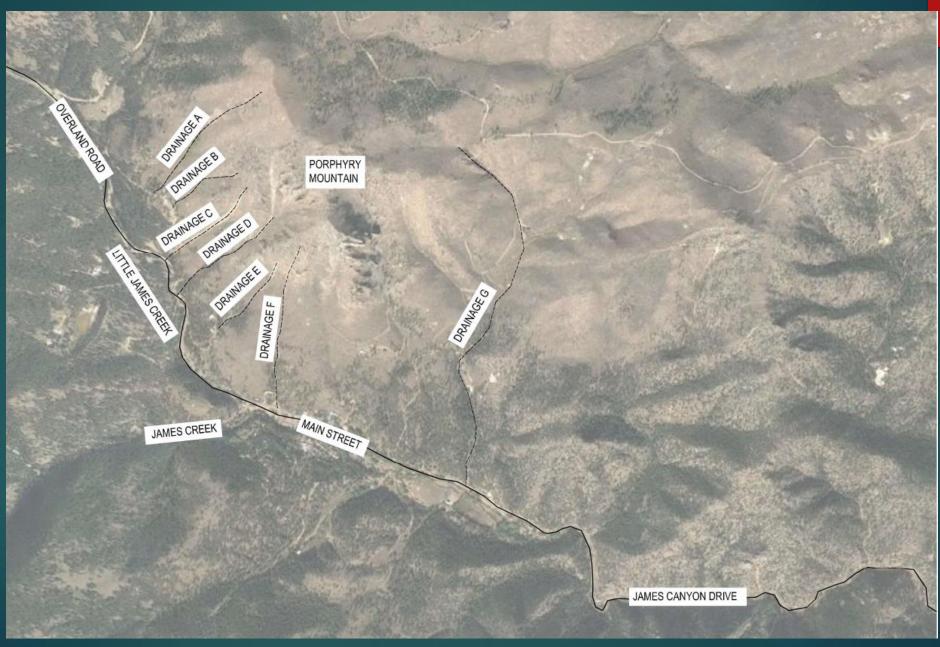
Efficiency – How far reaching are the project benefits?

Grant Funding Potential – Is grant funding an option?

Project Maintenance – Can the town maintain this?

Construction Cost – How much does it cost to construct?

Priority Drainages



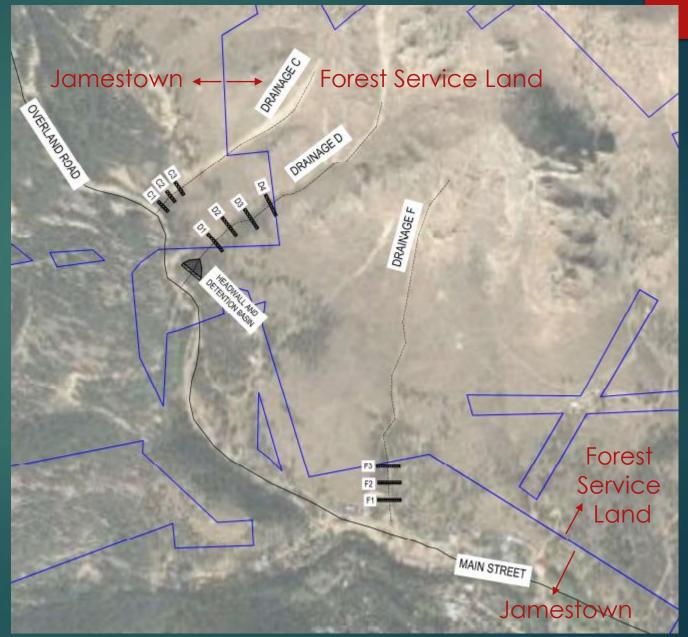
Recommended Mitigation in High-Risk Drainages

Approximate U.S. Forest Service Boundaries

Proposed Ring Net Location



Proposed Detention Basin Location with Headwall

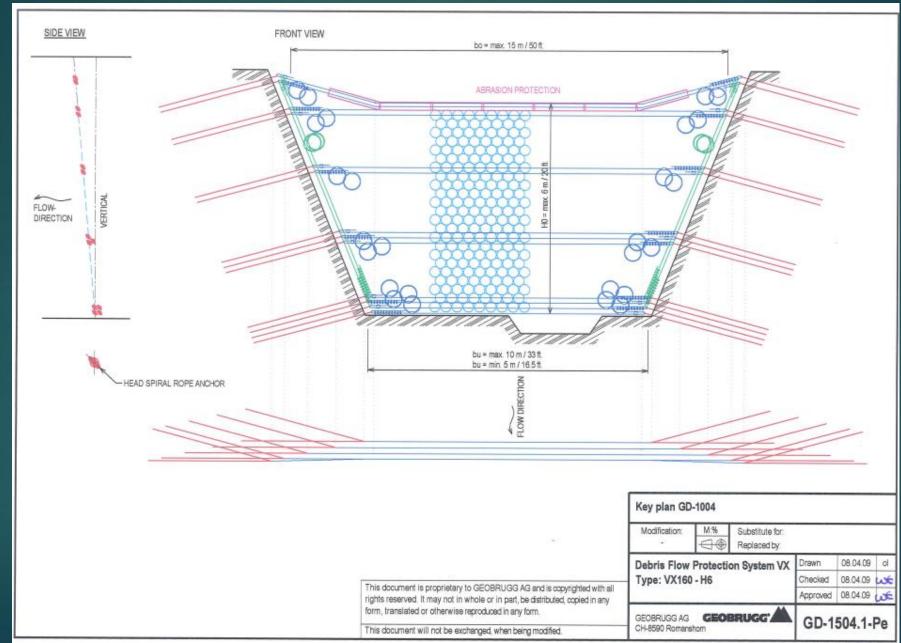


Ring Net Examples





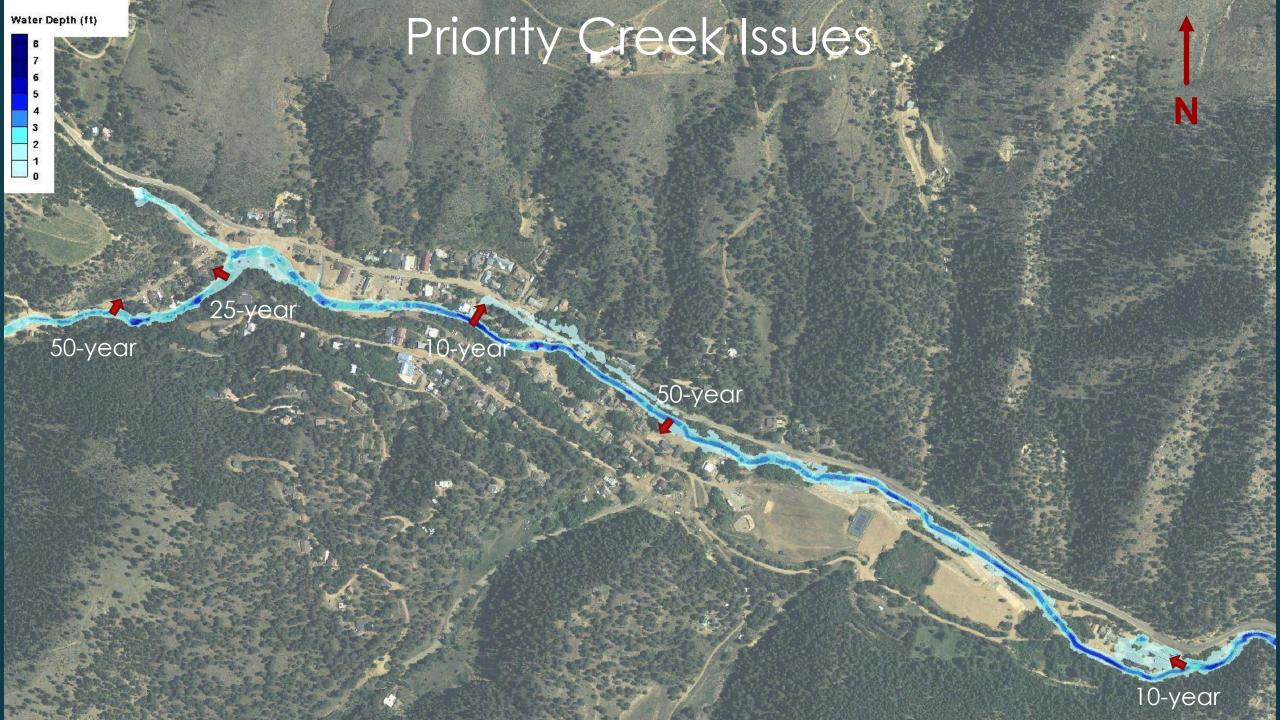
Ring Net Drawing Example



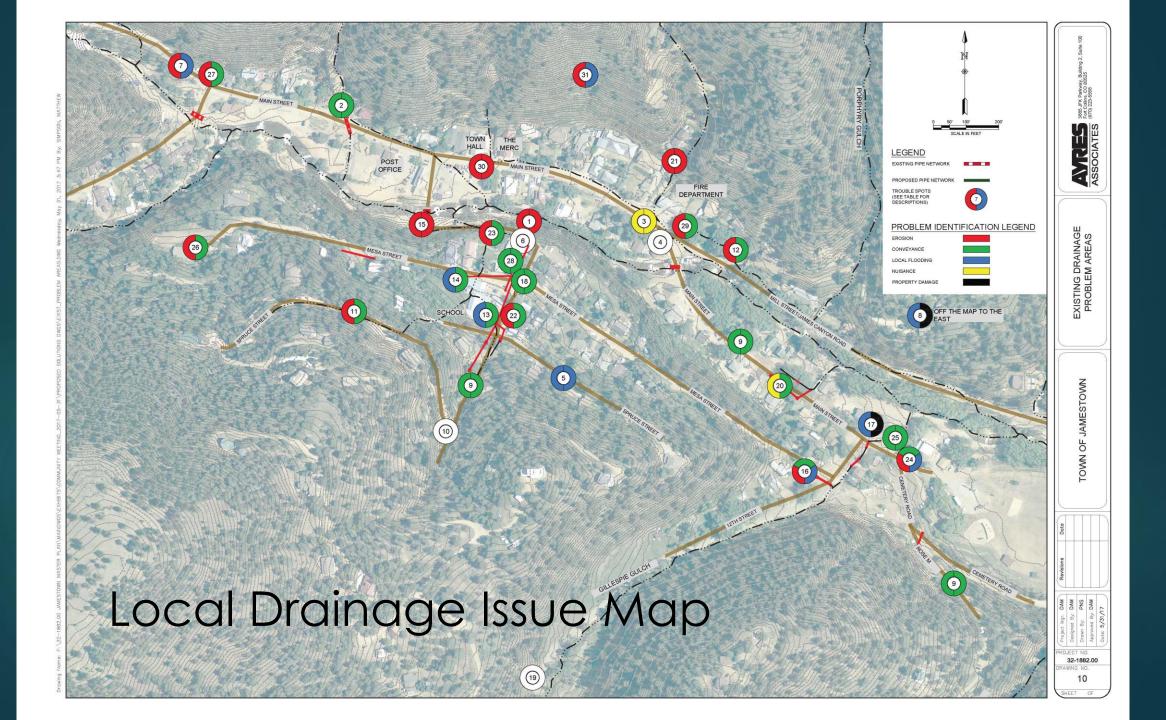
James Creek Analysis

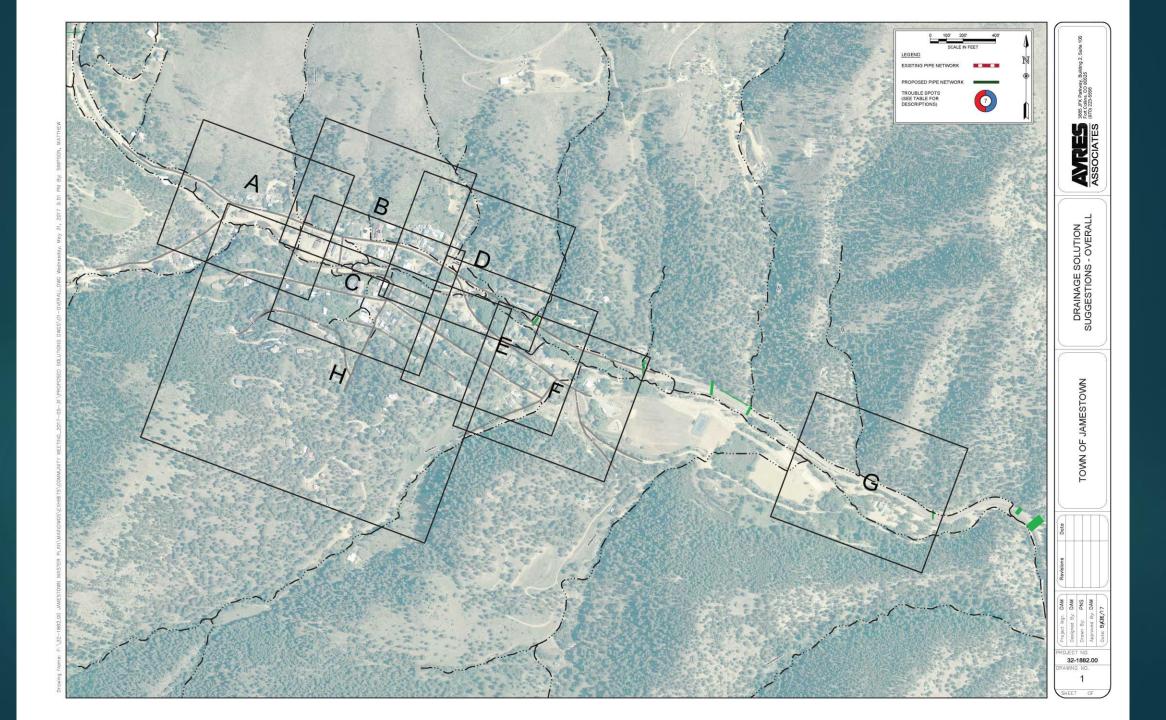
Some topics to include in the Master Plan:

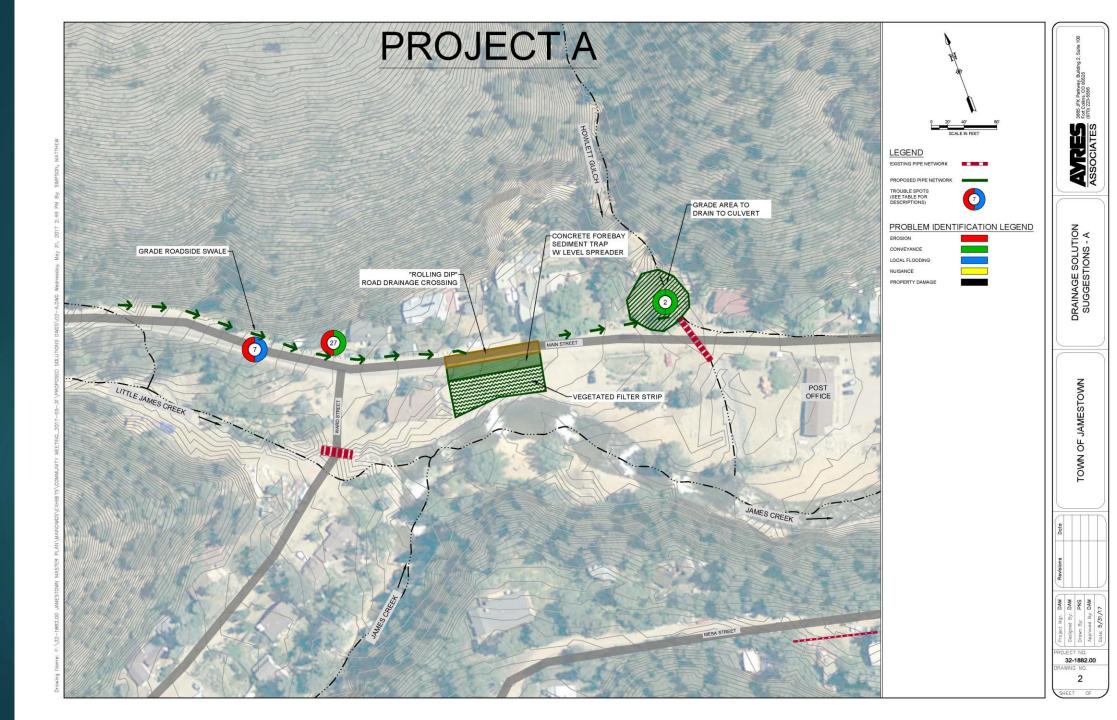
- Recommendations such as: vegetate bare earth along Creek
- List of events expected to move certain size boulders
- Identify potential issues at certain events (5-year, 10-year) and recommend maintenance/inspection procedures
- Locations where water spills from main channel
- Rating table for Creek flows equate depth to flow rate

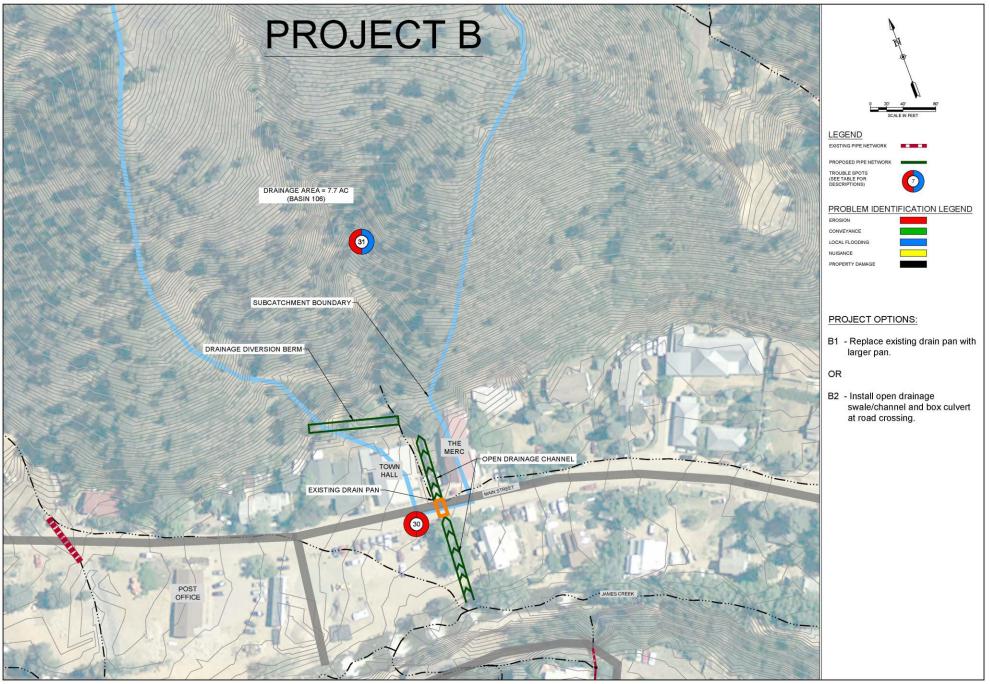












3965 JFK Parkway, Building 2, Suite 100 Fort Collins, Co 08025

ANRES ASSOCIATES

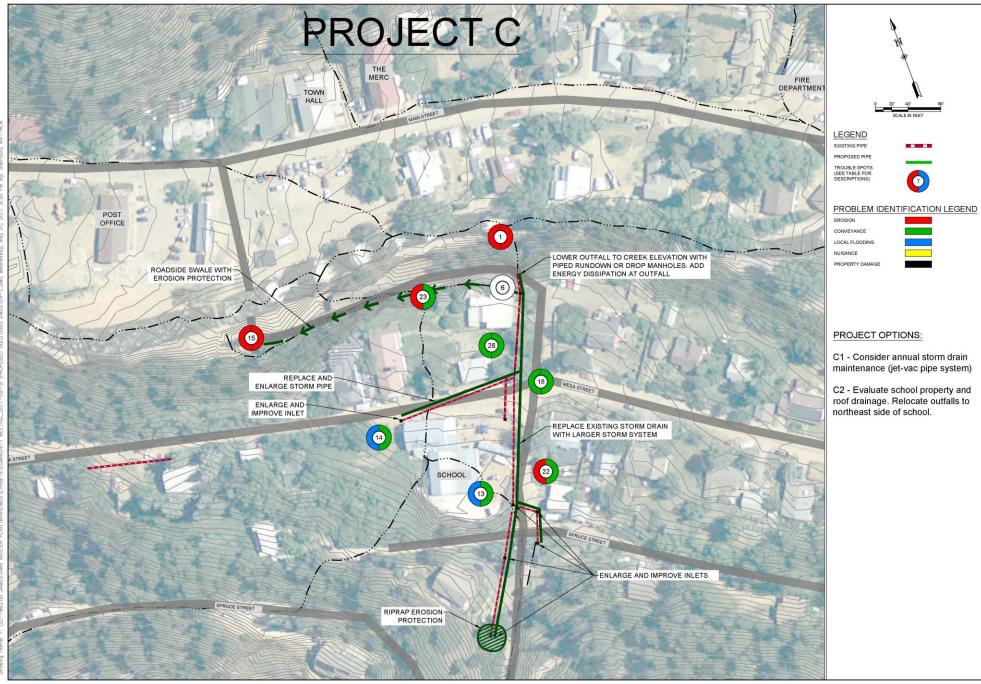
DRAINAGE SOLUTION SUGGESTIONS - B

TOWN OF JAMESTOWN

Project Mgr. DAM
Designed By: DAM
Drawn By: PNS
Approved By: DAM

PROJECT NO. 32-1882.00 DRAWING NO.

SUCCT

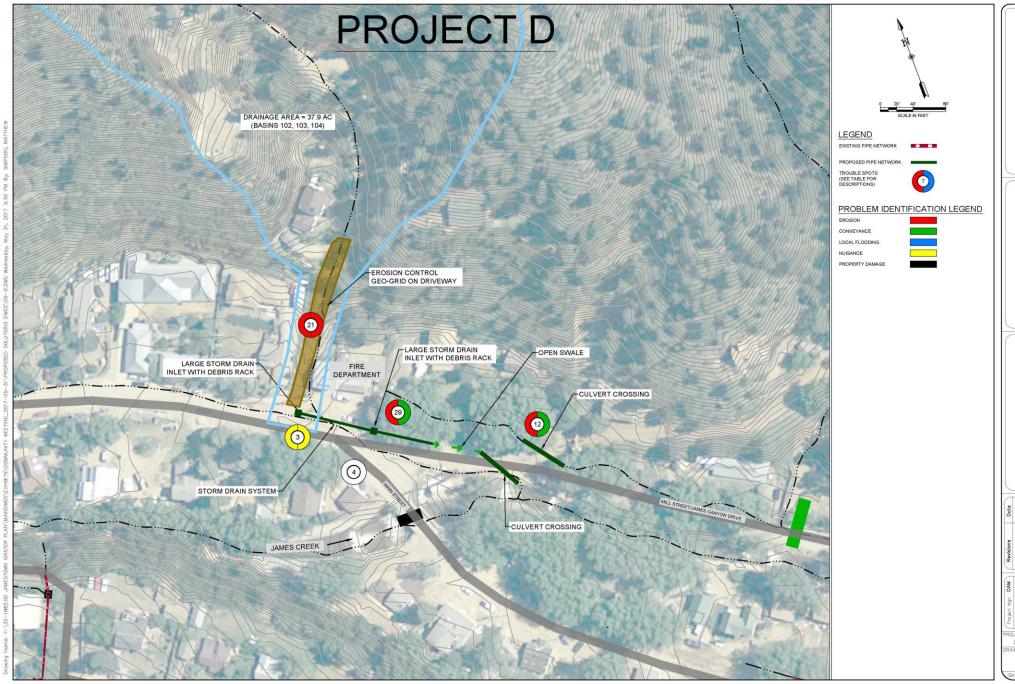


PROJECT OPTIONS:

- C1 Consider annual storm drain maintenance (jet-vac pipe system)
- C2 Evaluate school property and roof drainage. Relocate outfalls to northeast side of school.

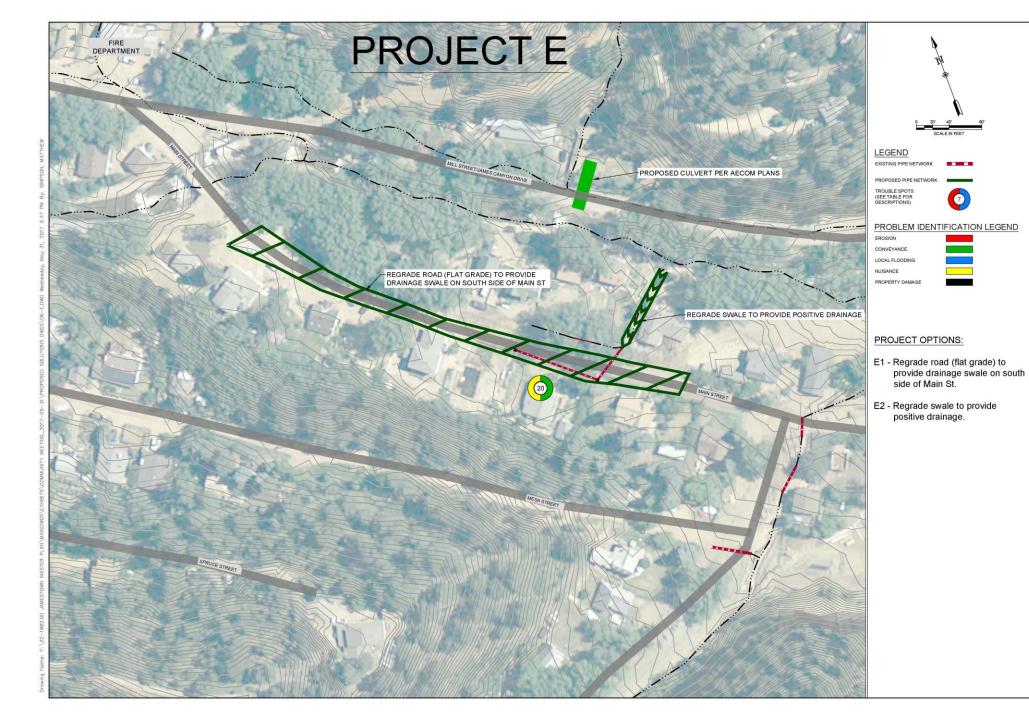
DRAINAGE SOLUTION SUGGESTIONS - C

JAMESTOWN TOWN OF,



DRAINAGE SOLUTION SUGGESTIONS - D

JAMESTOWN TOWN OF,



5965 JFK Parkway, Building 2, Suite 100 For Collins, CO 80525 FS (970) 223-5560

AVRES 3

DRAINAGE SOLUTION SUGGESTIONS - E

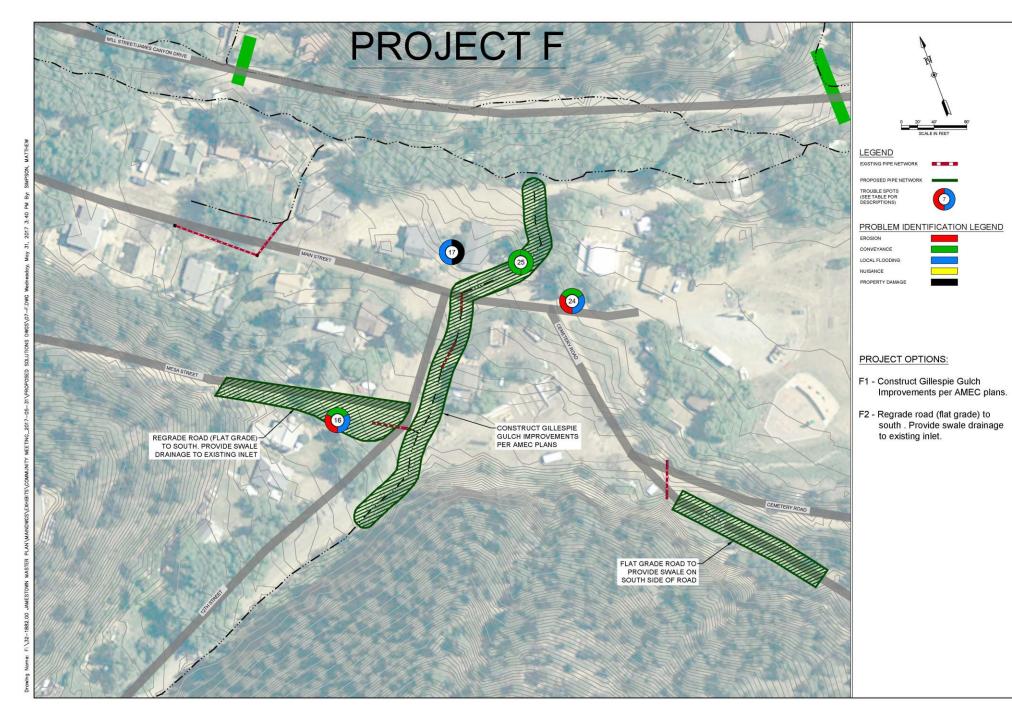
TOWN OF JAMESTOWN

AM Revisions Date
AM NS NS

Designed By: DAM
Drawn By: PNS
Approved By: DAM

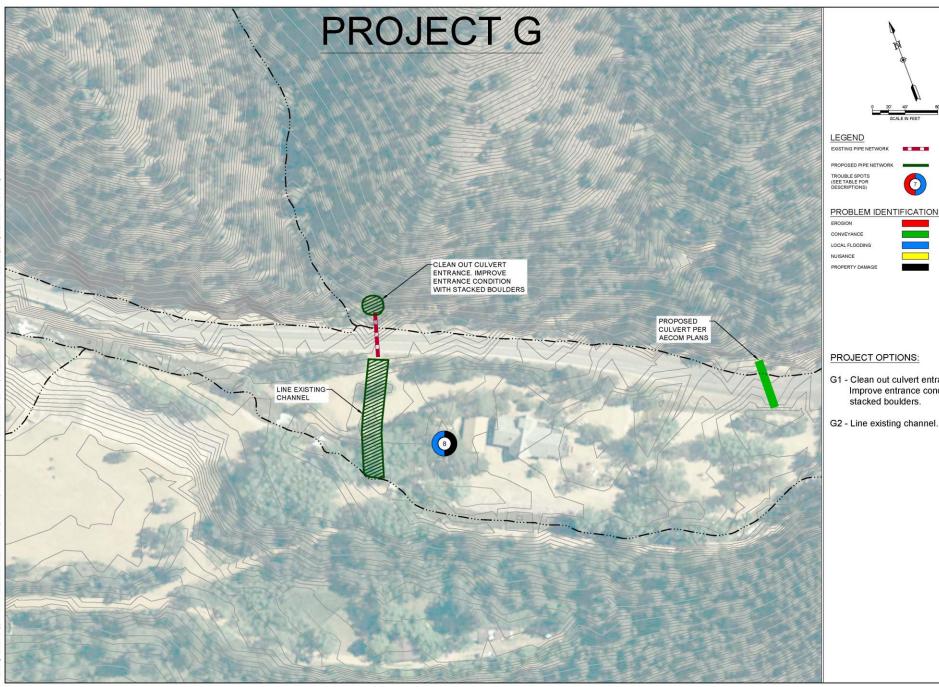
PROJECT NO. 32-1882.00 DRAWING NO.

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DRAINAGE SOLUTION SUGGESTIONS - F

JAMESTOWN TOWN OF,

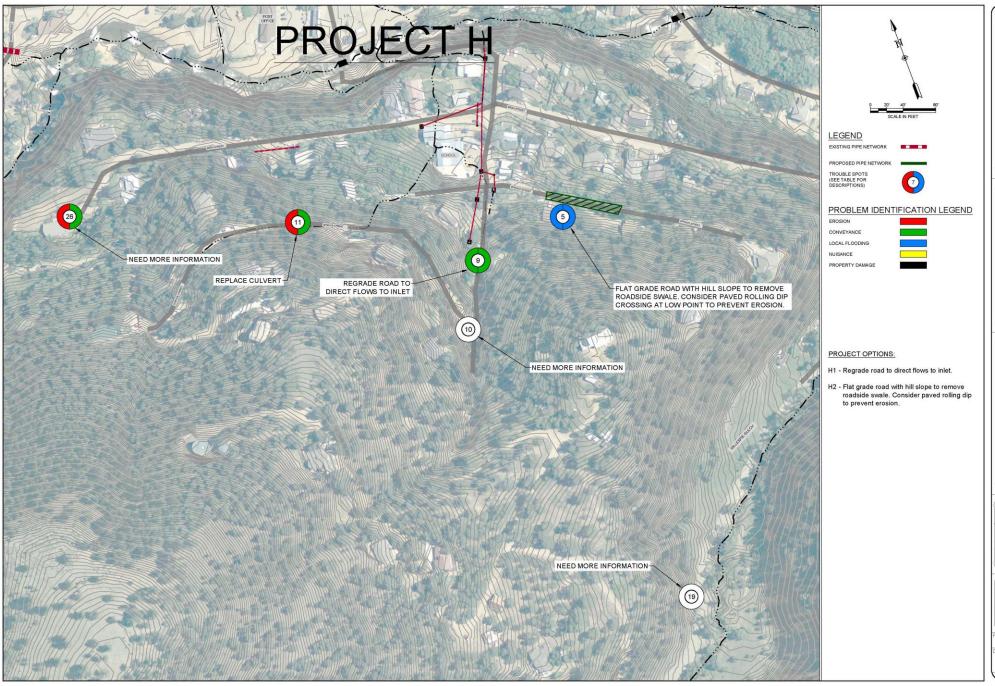


PROBLEM IDENTIFICATION LEGEND

G1 - Clean out culvert entrance. Improve entrance condition with

DRAINAGE SOLUTION SUGGESTIONS - G

TOWN OF JAMESTOWN



3865 JFK Pankway, Building 2, Sulte 100 Fort Collins, CO 80525 (970) 223-5566

AYRES 6 98

DRAINAGE SOLUTION SUGGESTIONS - H

TOWN OF JAMESTOWN

Revisions Date

Project Mgr. DAM Designed By: DAM Drawn By: PNS

PROJECT NO. 32-1882.00 DRAWING NO.

CULCI

Prioritization Criteria

Life Safety – Does it threaten loss of life?

Structure Damage – Does it cause structural damage?

Access – Does flooding/issue inhibit access?

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Project Prioritization Criteria Matrix

Criteria	Critical* (10)	High (5)	Medium (3)	Low (1)	Project Score	Importance Factor	Weighted Score	Range
Life safety	Potential loss of life	Significant safety issue	Moderate safety issue	Minimal safety issue	5			0-25
Structure Damage	Damage to WTP	Significant threat of property damage	Moderate threat of property damage	Minimal threat to property damange		4		0-20
Access Impact	Prevents access to/from Town	Impacts emergency access	Impacts roadway access	Impacts driveway access		4		0-20
Existing Maintenance		After every storm event	Several times per year	Annual or less		3		0-15
Efficiency	Project protects critical facilities	Project has impact on larger area of town	Project addresses 2-3 drainage problems	Project addresses one drainage problem	3			0-15
Grant Funding Potential	Grant funding secured	High potential to receive funding	Medium potential to receive funding	Low potential to receive funding	2			0-10
Project Maintenance	No maintenance required	Reduced maintenance effort	No change in maintenance effort	Increased maintenance required		2		0-10
Construction Cost	No cost	Low cost	Medium Cost	High Cost		1		0-5

^{*} Reserved for projects that protect critical facilities: water treatment plant, water distribution system, emergency access in/out of town

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Water Quality Factor				
1.0	Does not improve WQ	Weighted Score		0-5
1.1	Improves WQ with significant maintenance requirements	Water Quality Factor	1.0	.0 - 1.2
1.2	Improves WQ with low maintenance requirements	Overall Score		0-6

Jamestown Stormwater Master Plan MCDA												
Local Drainage Projects		Assessment Scores										
No.	Name	Life Safety	Structure Damage	Access	(Ex) Maint.	Benefit	Grant Funding	Proj. Maint.	Const. Cost	Sub Total	WQ Factor	Total
1	Debris Flow - Drainages C, D, F	5	5	10	3	10	3	3	1	5.71	1.2	6.85
2	C1 - Anderson Hill	3	3	3	5	5	3	5	3	3.67	1.1	4.03
3	C2 - Mesa & 16th Street	3	1	3	5	5	3	5	3	3.33	1.0	3.33
4	A - James Canyon Rd/Main St	1	1	3	1	5	3	5	3	2.42	1.2	2.90
5	G - Buffalo Gulch	1	5	1	5	1	3	5	3	2.75	1.0	2.75
6	D - Main St/Mill St/15th St	1	3	1	5	3	3	5	3	2.67	1.0	2.67
7	B - Merc/Town Hall	1	3	3	3	1	3	3	3	2.33	1.0	2.33
8	E - Main St Drainage	1	3	1	3	3	3	3	3	2.25	1.0	2.25
9	H - Upper Jamestown	1	3	1	3	3	3	3	3	2.25	1.0	2.25
10	F - Gillespie Gulch	1	1	1	3	3	3	5	3	2.08	1.0	2.08
	Importance Factor		4	4	3	3	2	2	1	24		

Schedule

May 2017 - Prioritize and design proposed solutions

June 2017 - Identify funding options, Draft Master Plan Document

July/August 2017 - Final Master Plan



