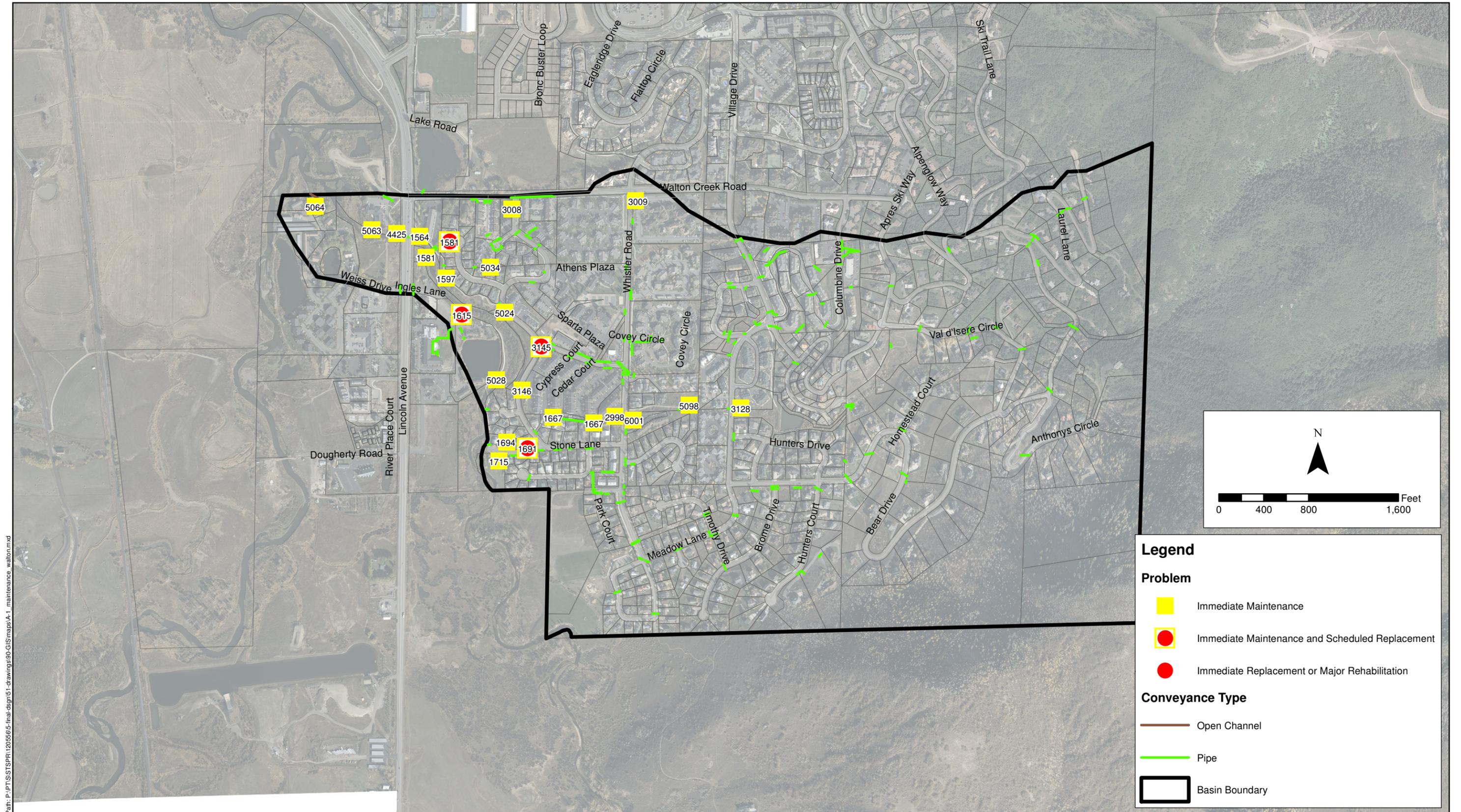


APPENDIX A – PROBLEMS AND NEEDS MAPS



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Project: STSPR 120556
Print Date: 3/6/2013

Map by:
Projection:
Source:

Problems and Needs Map - Walton Creek

Citywide Stormwater Master Plan
City of Steamboat Springs, Colorado

Figure
A-1

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Walton Creek



Location: East of Lincoln Avenue on Ingles Lane behind La Quinta Inn.
Problem/Solution: One-way or reed valve needed on outfall to Walton Creek to prevent high water levels in Walton Creek from backing up into Holiday Inn parking lot. Private detention pond outlet needs cleaning.



Location: South West corner of Walton Creek Road and Aspen Leaf Way.
Problem/Solution: Clean out 18-inch CMP invert.



Location: Southern side of Walton Creek Road and Whistler Road.
Problem/Solution: Remove sediment in invert and restore grades to blend into roadside ditch.



Location: East side of Lincoln near Walton Creek Road.
Problem/Solution: Remove trees, vegetation, and debris at u/s end of triple 48-inch CMPs beneath Walton Creek Trail.



Location: East side of Lincoln near Walton Creek Road.
Problem/Solution: Remove trees, vegetation, and debris at downstream end of triple 48-inch CMPs beneath Walton Creek Trail.



Location: Skyview Lane and Chinook Lane.
Problem/Solution: Remove sediment and vegetative growth from inlet and outlet of 24-inch CMP



Location: Chinook Lane at Jackpine Court.
Problem/Solution: Remove vegetative growth and sediment at inlet to twin 66-inch CMP culverts; restore grades and provide outlet protection on outlet side.



Location: At eastern end of Stone Circle, closest to Yampa River.
Problem/Solution: Vegetation removal required around 30-inch CMP.



Location: East side of Lincoln Avenue, typical area drain discharge.
Problem/Solution: Remove silt, standing water, and vegetation from 18-inch CMP.



Location: Along tributary to Walton Creek (Bear Creek) west of Whistler Road.
Problem/Solution: Remove sediment from entrance to 72-inch pipe.



Location: Under Meadowood Court at intersection with Stone Circle.
Problem/Solution: Remove vegetation in and surrounding existing 24-inch CMP.



Location: North side of Stone Circle East of Chinook Lane.
Problem/Solution: Remove sediment and debris from buried 18-inch CMP and replace.



Location: East of Lincoln Avenue beneath Walton Creek Trail that outfalls into Walton Creek.
Problem/Solution: Remove vegetation and debris and add a flap gate to existing 18-inch CMP.



Location: On Yampa River Core Trail near connection to Willow Brook Court.
Problem/Solution: Remove vegetation and debris and add a flap gate to existing 18-inch CMP outfall.



Location: Outfalls into Yampa River under Chinook Lane, South of Willow Brook Court.
Problem/Solution: Remove vegetation from blocked 24-inch CMP.



Location: Outfalls from pond in between Lincoln Avenue and Chinook Lane.
Problem/Solution: Remove vegetation and plywood from blocked Twin 18-inch CMP outfalls; install flap gate valves to prevent Walton Creek backflow.

Walton Creek



Location: Just South of end of Mariah Court in between residential homes.

Problem/Solution: Alter fence line that is blocking flow conveyance on private property.



Location: Along Soda Creek upstream from Pahwintah Street.

Problem/Solution: Repair erosion damage and install bank protection/stabilization.



Location: Downstream end of Walton Creek where it outfalls into the Yampa River.

Problem/Solution: Evidence of sandbags.



Location: Under Whistler Road just South of Redwood Court.

Problem/Solution: Remove silt and vegetation from existing CMP.



Location: At Whistler Road along the Bear Creek Trail.

Problem/Solution: Repair erosion damage.



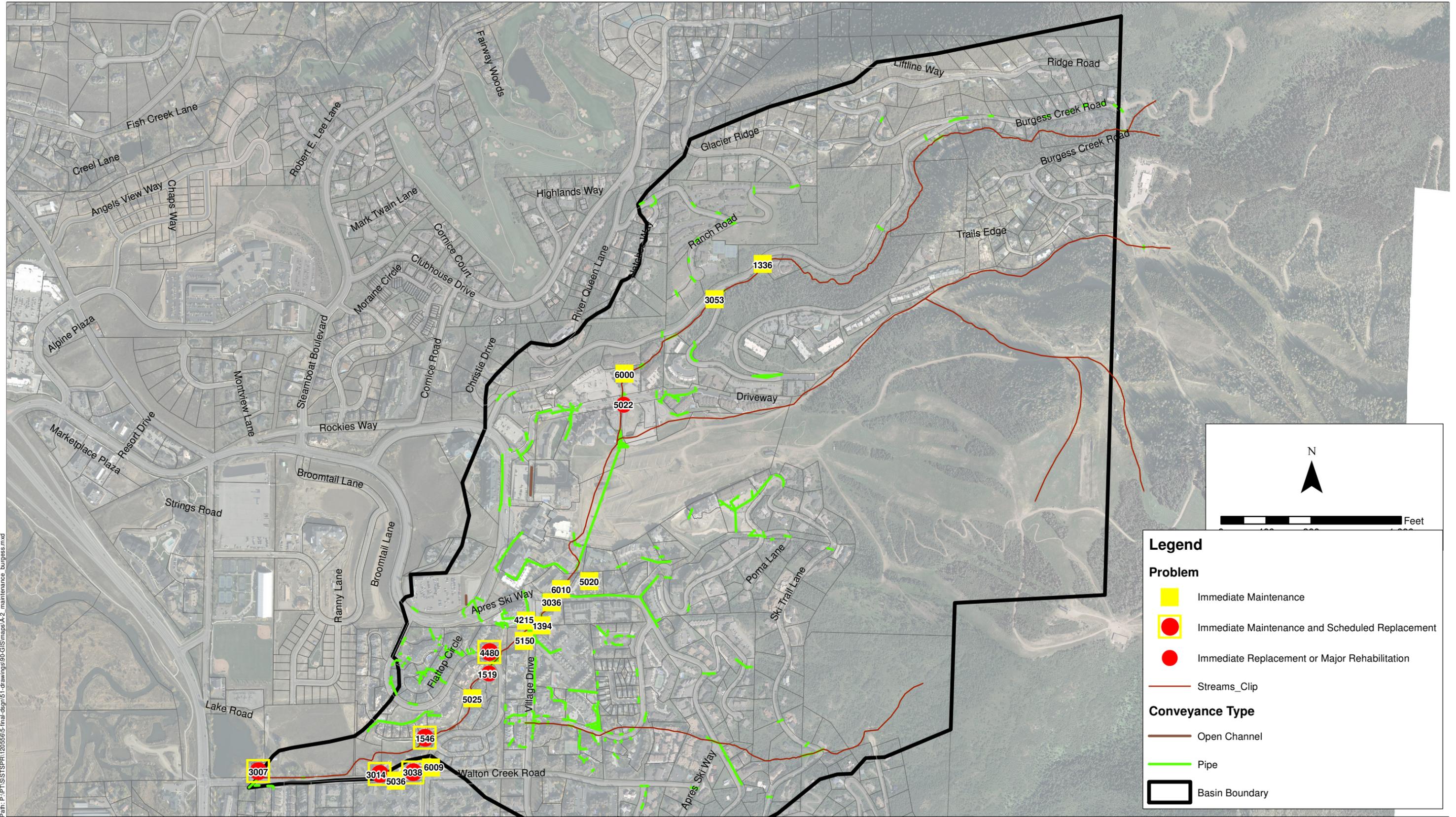
Location: Under Bear Creek Trail Crossing in between Whistler Road and Meadow Lane.

Problem/Solution: Remove sediment from existing 60-inch CMP.



Location: Bear Creek Trail Crossing at Meadow Lane.

Problem/Solution: Remove sediment and vegetative growth from CMP inlet and outlet.



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Problems and Needs Map - Burgess Creek

Citywide Stormwater Master Plan
City of Steamboat Springs, Colorado

Figure
A-2

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Burgess Creek



1555

Location: On Lake Drive North of Walton Creek Road
Problem/Solution: Undersized 48-inch CMP requires replacement to ensure no overtopping of Walton Creek Road by Burgess Creek. Pipe entrance and exit zones require maintenance to clear vegetation and debris.



3007

Location: South side of Walton Creek Road
Problem/Solution: Replace undersized 48-inch CMP beneath Walton Creek Road. Clear vegetation, sediment, and debris to restore capacity.



3014

Location: North side of Walton Creek Road, west of Eagle Ridge Drive
Problem/Solution: Triple 30-inch CMPs require maintenance: Clean out sediment and clear out vegetation and debris at outfalls.



5036

Location: Northern side of Walton Creek Road
Problem/Solution: Remove vegetation and sediment to restore clear top of weir and downstream channel bottom elevation.



3038

Location: Northern side of Walton Creek Road at and Eagle Ridge Drive crossing.
Problem/Solution: Mow/Clear vegetation and restore grade.



6009

Location: Northeast side of Walton Creek Road and Eagle Ridge Drive
Problem/Solution: Harvest/remove dead cattails/vegetation; restore grade and capacity of roadside ditch. Determine status of exposed PVC pipe.



1546

Location: Beneath pedestrian trail crossing between Eagle Ridge Drive and Eagle Glen Road
Problem/Solution: Replace/upsized existing CMP. Short term, remove torn corrugated metal obstruction and other debris.



5025

Location: On Burgess Creek, downstream of Eagle Ridge Drive crossing
Problem/Solution: Repair right bank erosion upstream of pedestrian bridge.



Location: Culvert at Eagle Ridge Drive
Problem/Solution: Culvert replaced summer of 2012.



Location: Roadside swale on North side of Eagle Ridge Drive, just west of culvert crossing
Problem/Solution: Clean out 24-inch CMP, remove vegetation, and restore grade. Investigate status of exposed pipe/conduit.



Location: West of Village Drive, South of Highmark Hotel.
Problem/Solution: Repair damaged 60-inch CMP outfall beneath Village Drive. Install flared end section and outfall protection.



Location: West of Village Drive, in parking lot of Highmark Hotel.
Problem/Solution: Install outlet protection around 30-inch CMP outfall from north.



Location: East of Village Drive at Market on the Mountain.
Problem/Solution: Clear and remove vegetation blocking outfall from culvert beneath Market on the Mountain parking lot.



Location: Southeast corner of Village Drive and Apres Ski Way
Problem/Solution: Remove sediment and debris to restore capacity to twin 48-inch CMPs beneath Apres Ski Way.



Location: North side of Apres Ski Way near Village Drive
Problem/Solution: Remove sediment and debris to restore capacity to twin 48-inch CMPs. Repair damaged sheet metal to ensure no blockage of flows.



Location: North side of Apres Ski Way near Village Drive
Problem/Solution: Clear "debris dam" from Burgess Creek to restore full flow capacity.

Burgess Creek



Location: North side of Apres Ski Way near Village Drive
Problem/Solution: Remove debris and sediment from outfall for 60-inch CMP on Apres Ski Way.



Location: South side of Ski Time Square Drive
Problem/Solution: Review 100-year floodplain elevations and snowmelt water surface elevations to ensure structure adjacent to Burgess Creek is protected during high water events.



Location: In between Ski Time Square Drive and Burgess Creek Road
Problem/Solution: Repair erosion damage and install bank protection/stabilization.



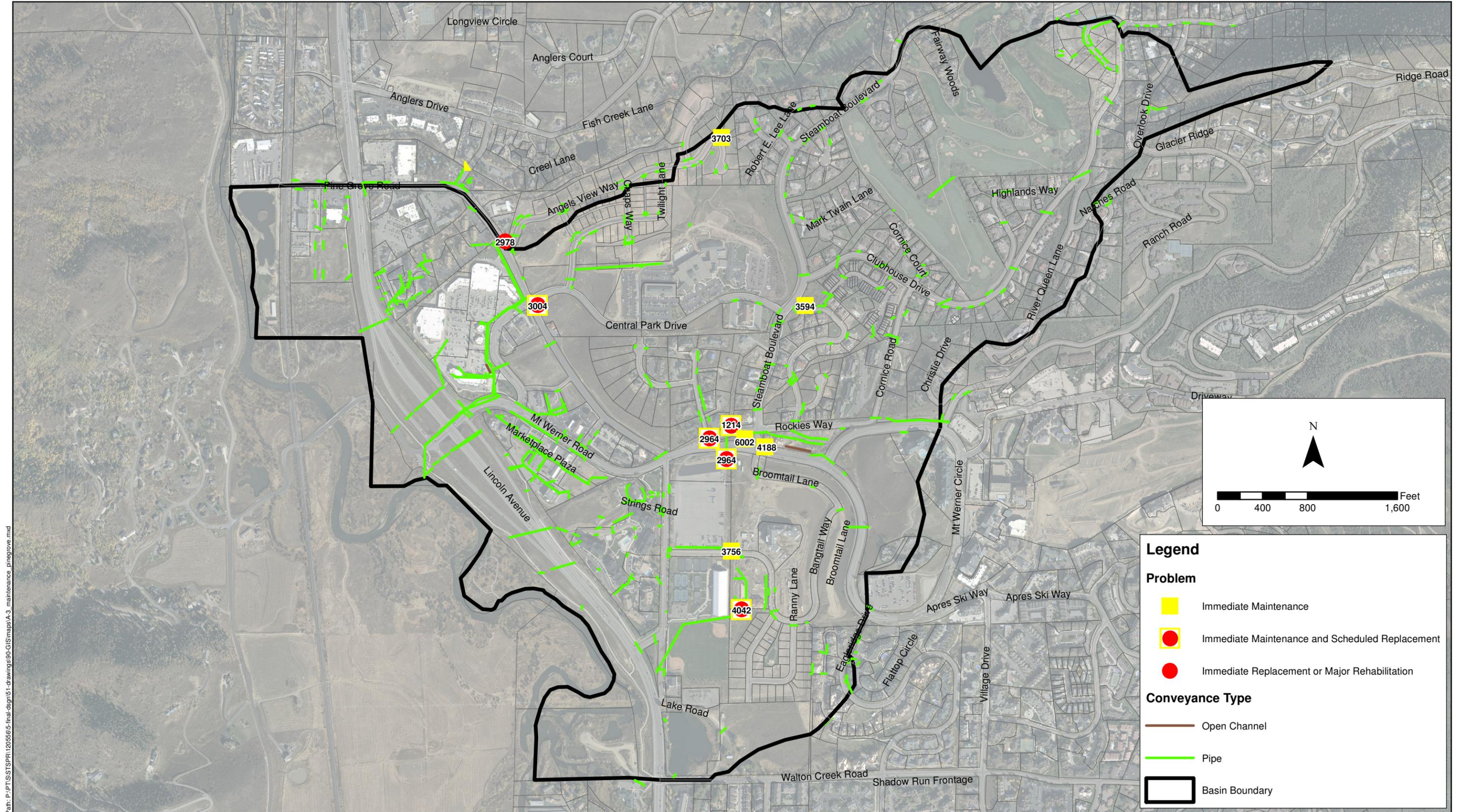
Location: At the intersection of Burgess Creek Road and Storm Meadows Drive
Problem/Solution: Install entrance protection around 48-inch CMP beneath Storm Meadows Drive and remove blockages and sediment to ensure full capacity.



Location: At the intersection of Burgess Creek Road and Storm Meadows Drive
Problem/Solution: Install outfall protection and energy dissipation at 48-inch CMP outfall.



Location: On a private drive off Burgess Creek Drive Northeast of Storm Meadows Drive
Problem/Solution: Restore capacity of twin 42-inch CMPs beneath Stonecreek Court by removal of sediment/debris and installation of flared end sections.



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Problems and Needs Map - Pine Grove Road / Mount Werner Basin
 Citywide Stormwater Plan
 City of Steamboat Springs, Colorado

Figure
 A-3

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Pine Grove Road / Mount Werner Basin



Location: North side of Rockies Way just East of Montview Drive.

Problem/Solution: Remove vegetation and debris from buried 36" CMP and replace.



Location: Under Mount Werner Road just east of Montview Lane.

Problem/Solution: Remove vegetation from runoff ditch and replace 3'X3' inlet grate and 24-inch CMP.



Location: Near end of cul-de-sac under Angels View Way.

Problem/Solution: Remove sediment and debris from 18-inch CMP.



Location: Under Bangtail Way just East of Cattle Kate Circle.

Problem/Solution: Remove sediment and debris from Triple 48-inch CMPs.



Location: At intersection of Steamboat Boulevard and Mount Werner Road.

Problem/Solution: Remove sediment and debris from 30-inch CMP.



Location: At intersection of Angels View Way and Pine Grove Road.

Problem/Solution: Replace damaged 30-inch CMP on East side of Pine Grove Road by City Market.



Location: Roadside swale on south side of Rockies Way, just west of Steamboat Boulevard.

Problem/Solution: Remove accumulated sediment and restore grade; consider check dams to slow velocities and enhance sediment removal.



Location: Looking south from Mount Werner Road along embankment for missing culvert outlet.

Problem/Solution: Locate outlet for culvert crossing or study basin further to establish flowpath.

Pine Grove Road / Mount Werner Basin



Location: Looking south along swale toward sports fields.

Problem/Solution: Unknown flowpath and outfall location across sports fields beneath Pine Grove Road and Lincoln Avenue, and the Yampa River Core Trail.



Location: Southeast corner of Central Park Drive and Pine Grove Road.

Problem/Solution: Unknown flowpath; cannot locate other end of triple CMPs.



Location: Beneath Indian Summer Drive parallel to Steamboat Boulevard

Problem/Solution: Remove vegetation and debris from twin 35-inch RCPS.

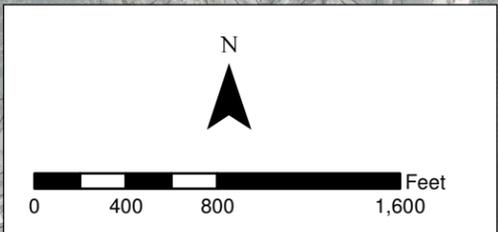
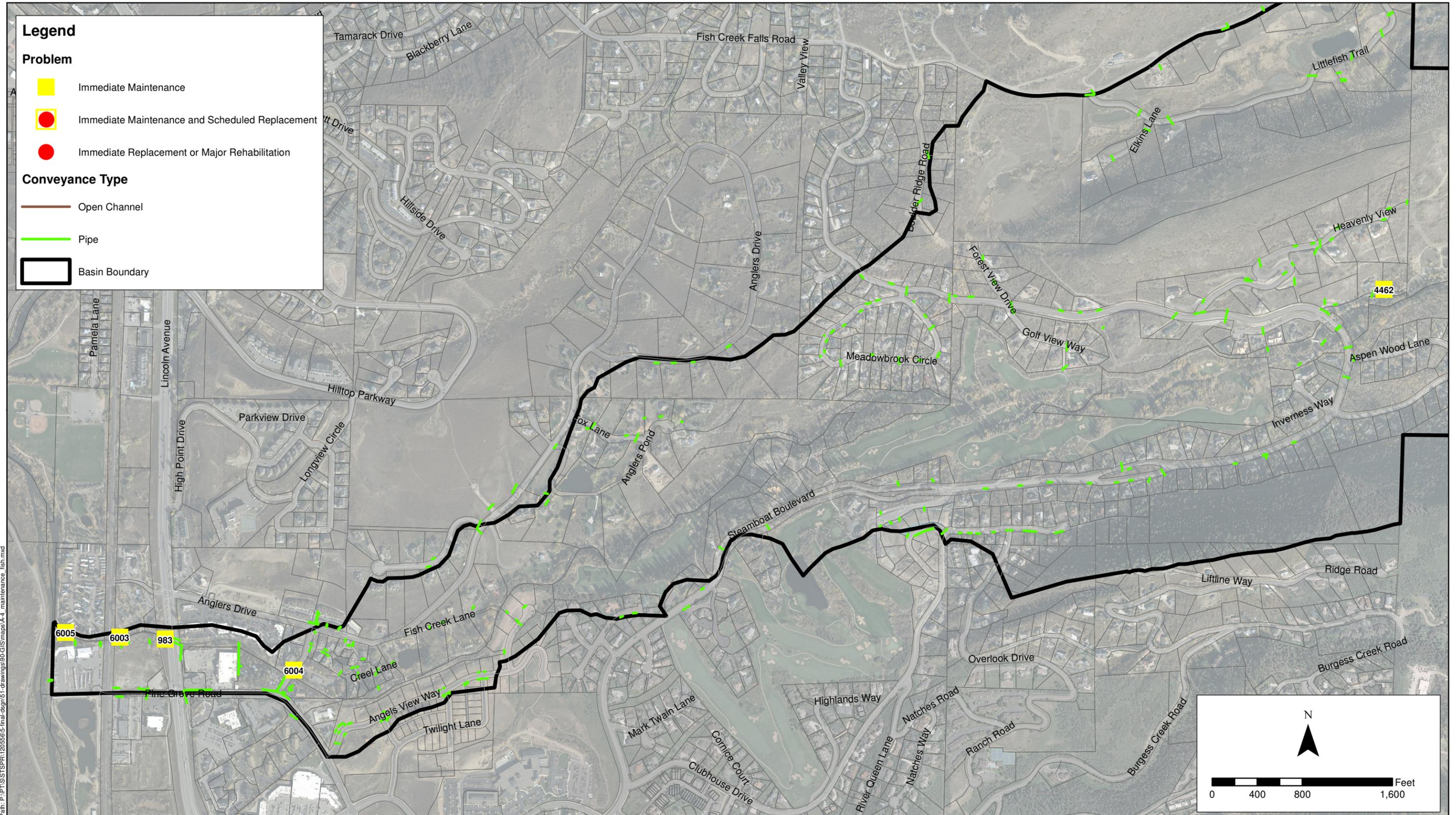
Legend

Problem

- Immediate Maintenance
- Immediate Maintenance and Scheduled Replacement
- Immediate Replacement or Major Rehabilitation

Conveyance Type

- Open Channel
- Pipe
- Basin Boundary



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Projection:
Source:

Problem and Needs Map - Fish Creek
Citywide Stormwater Master Plan
City of Steamboat Springs, Colorado

Figure A-4

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Fish Creek



Location: Triple box culvert at Lincoln Avenue.
Problem/Solution: Needs handrail and/or guardrail to minimize the potential for pedestrian and vehicular accidents.



Location: Bridge over Fish Creek at Rollingstone Drive.
Problem/Solution: Check capacity to minimize the potential for backwater and flood risk.



Location: Fish Creek crossing at railroad tracks.
Problem/Solution: Check capacity to minimize the potential for backwater and flood risk.



Location: Looking upstream from pedestrian bridge over Fish Creek on Yampa River Core Trail.
Problem/Solution: Potential for flooding properties in close proximity to Fish Creek.



Location: Driveway culvert on Clearwater Trail just east of Steamboat Boulevard.
Problem/Solution: Remove sediment and debris to restore capacity.

Fox Creek



Location: Under Hilltop Parkway South of Tamarack Drive

Problem/Solution: Remove vegetation and replace 18" CMP with squashed entrance.



Location: At intersection of Hilltop Parkway and Tamarack Drive

Problem/Solution: Unable to locate outlet pipe but photos show evidence and erosion present. Clean up vegetation and install erosion control.



Location: East roadside swale for Lincoln Avenue by entrance to Hampton Inn

Problem/Solution: Regrade swale and clean out completely clogged 24-inch CMP at driveway.



Location: Under Lincoln Ave by intersection with High Point Drive

Problem/Solution: Analyze seepage source and flowrates to size conveyance system to minimize nuisance flooding and icing issues. Continue aggressive maintenance schedule.



Location: Under Lincoln Avenue West of the Hampton Inn.

Problem/Solution: Restore grades and capacity of 24-inch CMP.



Location: West side of Lincoln Avenue at the southeast corner of Hampton Inn property.

Problem/Solution: Remove sediment and vegetative blockage from outfall pipe.



Location: CMP beneath service road west of Hampton Inn.

Problem/Solution: Restore capacity at inlet to CMP and remove sediment and vegetation at outfall.



Location: Under Trafalgar Drive, just East of intersection with Pamela Lane.

Problem/Solution: Remove silt and debris from existing 36-inch CMP and restore grades in swale.



Location: Under Trafalgar Drive, just East of intersection with Pamela Lane.
Problem/Solution: Remove sediment and debris from 24-inch CMP and regrade swale to restore capacity.



Location: Under entrance West of Lincoln Avenue and North of Trafalgar Drive.
Problem/Solution: Remove standing water and repair / replace crushed CMP.



Location: Adjacent to the Pet Kare Clinic west of Lincoln Avenue
Problem/Solution: Remove sediment and debris at both ends of this 36-inch CMP adjacent to the Pet Kare Clinic.



Location: At most Northern part of High Point Drive just East of Lincoln Avenue.
Problem/Solution: Maintain and clean out Type C inlet for roadside ditch and clean out Type R crossing at Lincoln Avenue.



Location: Underneath back road East of Specialists Steamboat office and West of the Railroad tracks.
Problem/Solution: Remove vegetation, sediment, and standing water from existing 15-inch CMP.



Location: Underneath Hilltop Lane just east of intersection with Longview Circle.
Problem/Solution: Repair erosion damage 5' downstream of 36-inch CMP.



Location: East of Lincoln Avenue behind Anchor Realty.
Problem/Solution: Remove vegetation and locate discharge outfall end to 24-inch CMP.



Location: East side of Lincoln Avenue, north of the Trafalgar Drive / Hilltop Parkway intersection.
Problem/Solution: Maintain swale and clean area inlet.



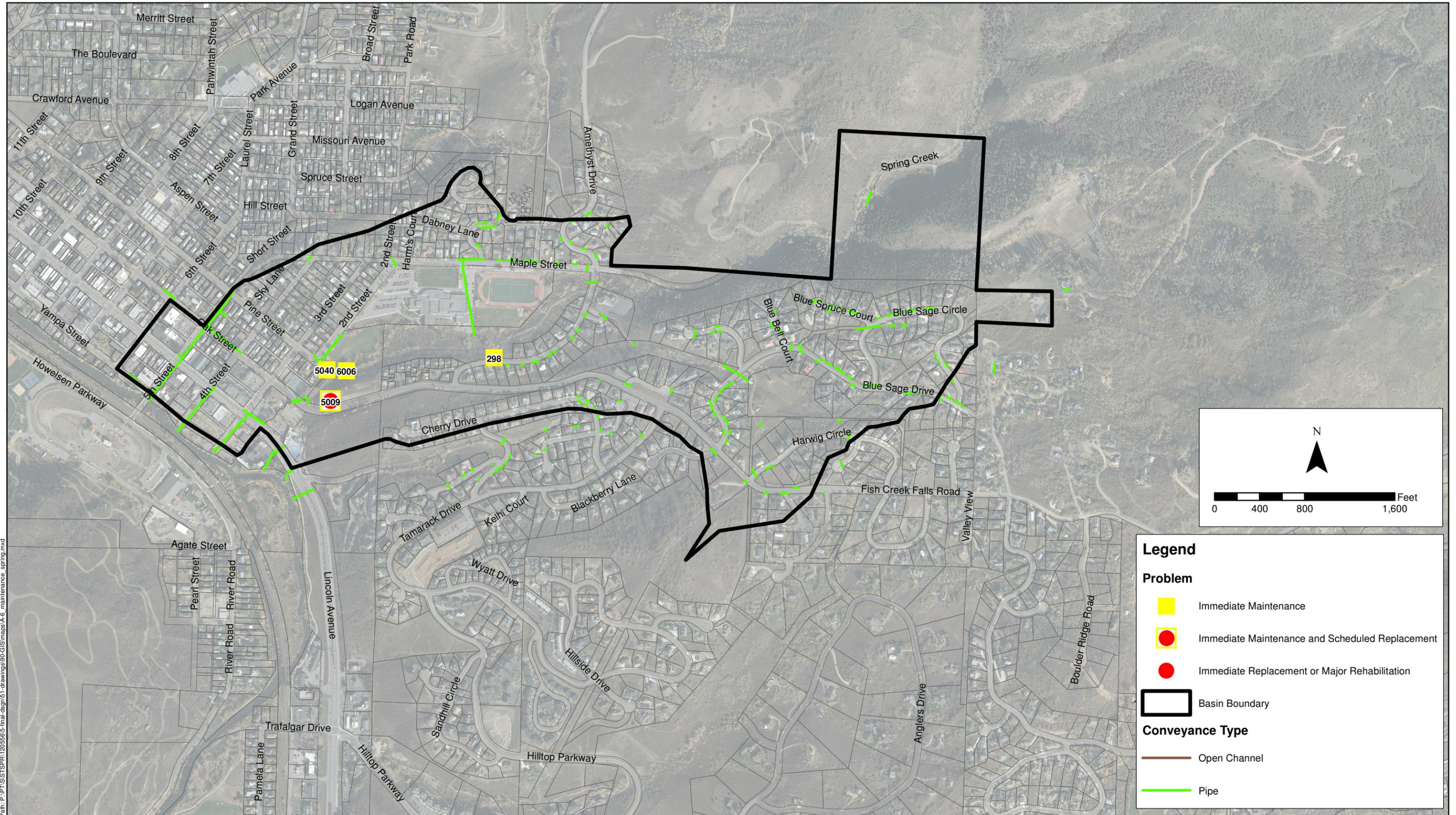
Location: Under East side of Anglers Drive loop.
Problem/Solution: Remove sediment from buried CMP and restore capacity.



Location: Beneath driveway off High Point Drive
Problem/Solution: Replace existing squashed 15-inch CMP



Location: Along north side of Hilltop Parkway at Lincoln Avenue
Problem/Solution: Replace existing squashed and silted 15-inch CMP



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Problems and Needs Map - Spring Creek

Citywide Stormwater Master Plan
City of Steamboat Springs, Colorado

Figure
A-6

Spring Creek



Location: Private deck over Spring Creek, just downstream of 2nd and Pine Streets.

Problem/Solution: Check hydraulic capacity of Spring Creek beneath deck to minimize flood hazards and risks associated with backwater and overtopping.



Location: 24-inch CMP beneath Fish Creek Falls Road.

Problem/Solution: Clean and inspect for overall condition and replace, if necessary.



Location: Triple 54-inch CMPs conveying Spring Creek beneath Amethyst Drive.

Problem/Solution: Clear vegetative growth and debris to ensure maximum capacity of culverts.



Location: Near pedestrian bridge at 2nd and Pine Streets.

Problem/Solution: Provide right bank protection just downstream of pedestrian bridge.

Butcherknife Creek



Location: Upstream end of CMP culvert crossing at intersection of Pine Street and 6th Street.
Problem/Solution: Overall condition is poor; evidence of overtopping suggests capacity issues are likely.



Location: Downstream end of 60-inch CMP beneath Butcherknife Alley at Larimer Street.
Problem/Solution: Invert of 60-inch CMP is completely rusted away. Replace existing 60-inch CMP with culvert sized to convey the 100-year storm event without overtopping.



Location: Butcherknife Creek Twin 60-inch CMP outfall pipes just northwest of 6th Street.
Problem/Solution: Backwater from Yampa River decreases hydraulic capacity of Butcherknife system; explore flapgate system for outfall.



Location: Butcherknife Creek Twin 60-inch CMP outfall pipes just northwest of 6th Street.
Problem/Solution: Provide inlet protection and clean out sediment and debris to maximize capacity.



Location: Outfalls into Butcherknife Creek off of Eastern side of Spruce Street
Problem/Solution: Replace squashed elliptical 4966 CMP that outfalls into Butcherknife Creek.



Location: South side of Hill Street between Grand and Larimer Streets.
Problem/Solution: Reconfigure utility pipe to remove obstruction of floodway.



Location: Open channel from Yampa Street to the Yampa River.
Problem/Solution: Re-construct channel walls and clean out channel bottom.



Location: 7th Street between Lincoln Avenue and Yampa Street.
Problem/Solution: 54-inch CMP is potentially undersized for updated hydrology and too close to public infrastructure and private property, creating the potential for flood hazards.



Location: Downstream end of 70-inch by 44-inch CMP structure beneath Oak Street.
Problem/Solution: Overall condition and capacity suggests replacement is necessary to prevent overtopping, potential collapse of Oak Street because of piping, and backwater effects.



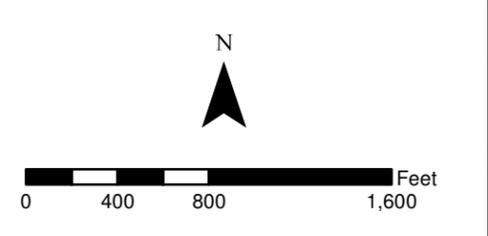
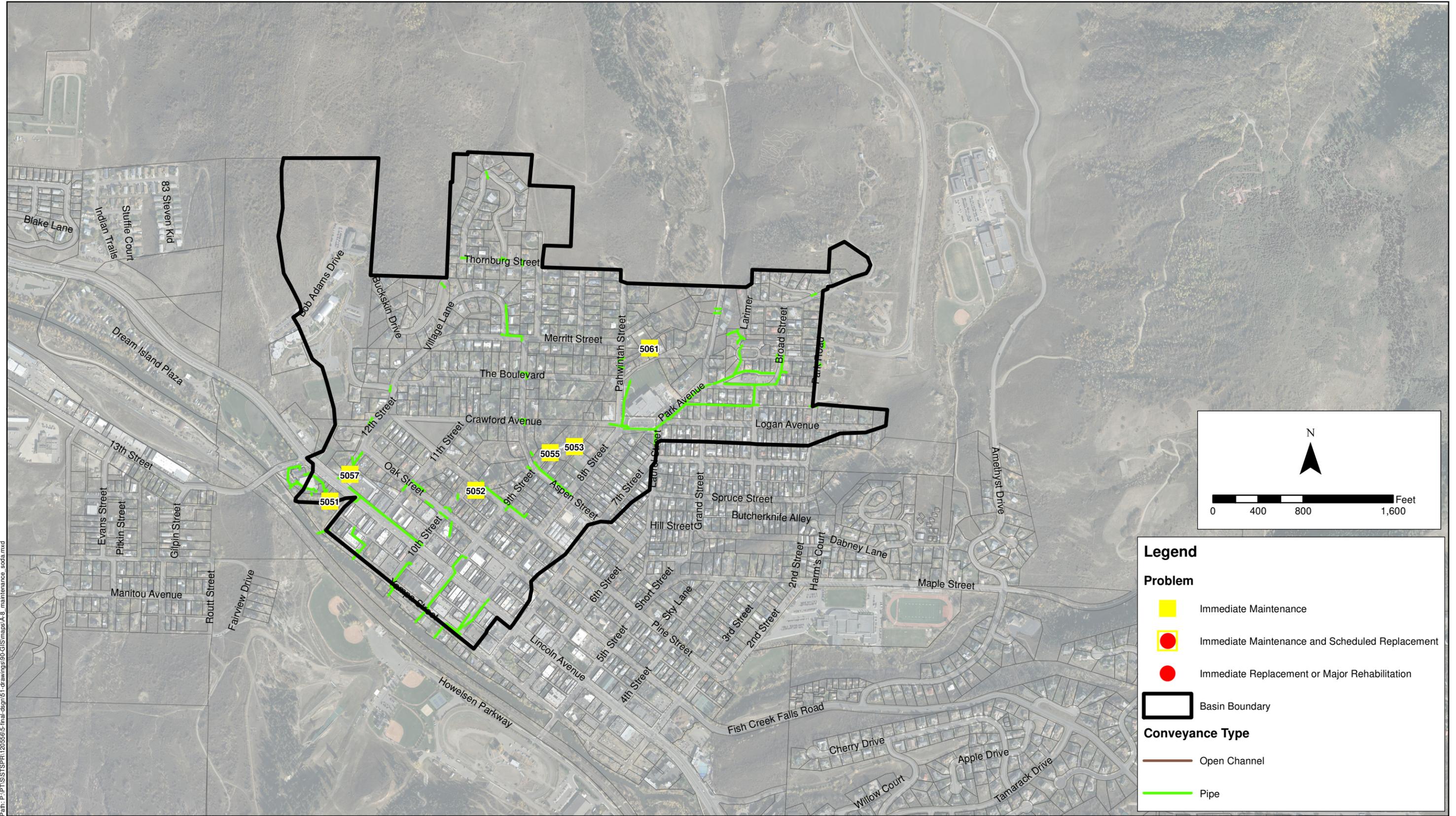
Location: Upstream of Oak Street in Butcherknife Creek.
Problem/Solution: Channel repair and stabilization required; a larger channel section is necessary to convey 100-year flows.



Location: Downstream end of CMP culvert crossing at Pine Street.
Problem/Solution: Overall condition of culvert is poor; exposed footing; potentially undersized for 100-year storm event.



Location: 238 James Street.
Problem/Solution: Flooded home caused by close proximity of undersized channel, backwater caused by undersized culverts, and poor overall channel condition.



Legend

Problem

- Immediate Maintenance
- Immediate Maintenance and Scheduled Replacement
- Immediate Replacement or Major Rehabilitation

Conveyance Type

- Open Channel
- Pipe

Basin Boundary

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Problems and Needs Map - Soda Creek

2012 Citywide Stormwater Master Plan
City of Steamboat Springs, Colorado

Figure
A-8

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Soda Creek



Location: Adjacent to Little Toots park.
Problem/Solution: Repair erosion damage and install bank protection/stabilization.



Location: Upstream side of Pine Street and bridge.
Problem/Solution: Repair erosion damage around bridge and install bank protection/stabilization.



Location: Soda Creek at the northwest end of Grove Place.
Problem/Solution: Evidence of bank erosion and sandbags in close proximity to structure. Repair erosion damage and install bank protection/stabilization.



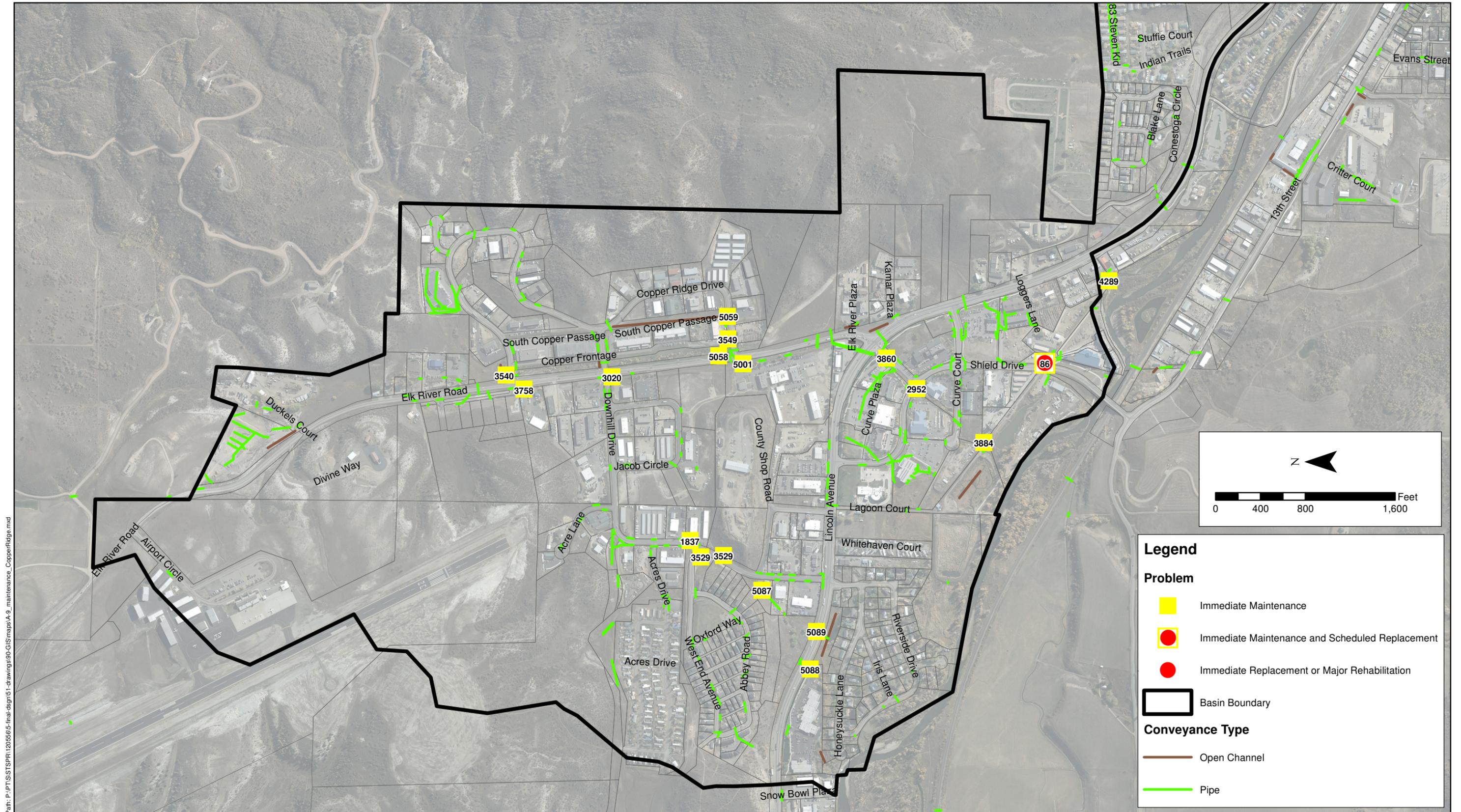
Location: Just upstream of Yahmonite / Aspen Street.
Problem/Solution: Repair collapsed wall and eroded wall and install bank protection along left bank downstream of the drop structure.



Location: Along 12th Street with intersection at Lincoln Avenue.
Problem/Solution: Repair erosion damage on northern and southern bank and install bank protection/stabilization along both banks.



Location: Soda Creek upstream of Pahwintah Street.
Problem/Solution: Repair erosion damage and install bank protection/stabilization.



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Problems and Needs Map - Copper Ridge Basin

Citywide Stormwater Master Plan
City of Steamboat Springs, Colorado

Figure
A-9

Copper Ridge Basin



Location: Under Copper Ridge Circle at intersection with Elk River Road.
Problem/Solution: Remove sediment, debris, and vegetative growth from 60-inch CMP under north leg of Copper Ridge Drive.



Location: Under Copper Ridge Frontage Road intersecting with Copper Ridge Drive.
Problem/Solution: Install erosion protection and remove vegetative growth to restore capacity.



Location: Along Copper Ridge Creek just upstream of Outfall into Yampa River.
Problem/Solution: Remove sediment, vegetation growth from 48-inch CMP outfall.



Location: Outfall into Yampa River from Copper Ridge Basin southwest of Lincoln Avenue behind Steamboat Rentals.
Problem/Solution: Remove sediment, debris, and vegetative growth from 18-inch CMP.



Location: Under Shield Drive at intersection with Elk River Road.
Problem/Solution: Remove sediment, debris, and vegetative growth at outfall for 48-inch CMP.



Location: Under Shield Drive intersecting with Yampa River Core Trail.
Problem/Solution: Remove rocks, silt, and vegetative growth from crushed CMP and replace.



Location: At intersection of Elk River Road and Copper Ridge Drive.
Problem/Solution: Remove sediment and vegetative growth from roadside swale to restore capacity.



Location: Along South Copper Passage behind Wagner Rentals.
Problem/Solution: Remove vegetative growth and regrade swale to restore capacity.



Location: West of the intersection of Downhill Drive and Radiator Road.
Problem/Solution: Remove sediment and debris from mouth of 24-inch CMP.



Location: Along Copper Ridge Creek where it crosses under Lincoln Avenue.
Problem/Solution: Remove silt and vegetation from existing 48-inch CMP to restore capacity.



Location: Culvert beneath Lincoln Avenue west of Downhill Drive / Riverside Drive.
Problem/Solution: Remove silt, debris, and vegetative growth from existing 48-inch culvert under Lincoln Avenue to restore capacity.



Location: At southwest corner of Downhill Drive and Elk River Road.
Problem/Solution: Restore original grade and remove sediment and vegetative growth.



Location: At driveway opposite of Downhill Drive and West End Avenue
Problem/Solution: Remove sediment and debris from clogged area drain and roadside ditch.



Location: At southwest corner of West End Avenue and Downhill Drive
Problem/Solution: Remove sediment and vegetation from clogged 24-inch CMP.



Location: Looking south along Downhill Drive at West End Avenue.
Problem/Solution: Clear sediment and vegetative growth from driveway culvert exit and restore capacity of roadside swale.



Location: Parallel to Elk River Road north of Downhill Drive.
Problem/Solution: Remove sediment, debris, and vegetative growth from small diameter CMP.



Location: Beneath Elk River Road at Copper Ridge Drive
Problem/Solution: Remove sediment and vegetation from CMP and re-grade to remove standing water.



Location: Parallel to Elk River Road under Curve Plaza Driveway
Problem/Solution: Remove sediment and vegetation from outlet for CMP and re-grade to remove standing water.

Emerald Mountain/Orton Meadows Basin



3100

Location: Culvert near northwest end of 13th Street conveying flows beneath 13th Street.
Problem/Solution: Remove sediment and vegetation from 24-inch CMP. Relocate utility line as necessary.



5002

Location: Outfalls into Yampa River and under Rail Road tracks East of Shield Drive.
Problem/Solution: Replace damaged 30-inch CMP with outfall pipe sized to convey 100-year storm flows.



2852

Location: Under Critter Court off of 13th Street near the Transit Operations Center.
Problem/Solution: Remove sediment and debris and replace rusted 54-inch CMP.



2850

Location: Under entrance of Lithia Spring Road.
Problem/Solution: Remove sediment and vegetative growth and adjust invert on downstream end of existing 30-inch poly pipe.



5138

Location: At intersection of Pitkin Street and Saratoga Avenue.
Problem/Solution: Remove sediment and debris from existing 15-inch CMP and restore grade.



3085

Location: At Bearview Court under Manitou Avenue.
Problem/Solution: Remove sediment and debris from existing Twin 48-inch CMPs.



2840

Location: Under Manitou Avenue between Pitkin Street and Gilpin Street.
Problem/Solution: Remove sediment and debris and replace Twin 36-inch CMPs.



2839

Location: At Southwest corner of Glenwood Court and Manitou Avenue.
Problem/Solution: Remove sediment, debris, and trees, and replace 15-inch CMP that leads into a 24-inch CMP.



Location: Under Saratoga Avenue West of Gilpin Street.
Problem/Solution: Remove sediment from existing 24-inch CMP.



Location: On south side of 13th Street, Northwest of Gilpin Street.
Problem/Solution: Replace 24-inch CMP driveway culvert with missing invert.



Location: South side of 13th St near Ferrell Gas
Problem/Solution: Remove sediment and vegetative growth standing water from outlet to existing CMP.



Location: Near Ferrell Gas off 13th Street
Problem/Solution: Remove vegetative growth to enhance conveyance to outfall.



Location: At Ferrell Gas off 13th Street
Problem/Solution: Remove vegetation and blocked sediment from existing driveway CMP.