



UPDATE ON TUSAYAN DRAINAGE MASTER PLAN
TUSAYAN TOWN COUNCIL
JUNE 9, 2026



PRESENTATION OVERVIEW

1. Update on Tusayan Drainage Master Plan

- **Chris Duzsa, PE, Civiltec Engineering**
- **Joe Loverich, PE, JE Fuller Hydrology**

2. Update on FLAP & BUILD Grants

- **Shaun Pooyouma, District Program Manager**

3. Update on SMART Grant

- **Shaun Pooyouma, District Program Manager**
- **Greg Clifton, Town Manager**

4. Next Steps

- **Greg Clifton, Town Manager**
- **Lucinda Andreani, District Administrator**



**IN-TOWN FLOOD MITIGATION
30% PLANS AND DCR**

CHRIS DUSZA, PE, CIVILTEC ENGINEERING, INC.



DRAINAGE MASTER PLAN UPDATE



Project Status Update

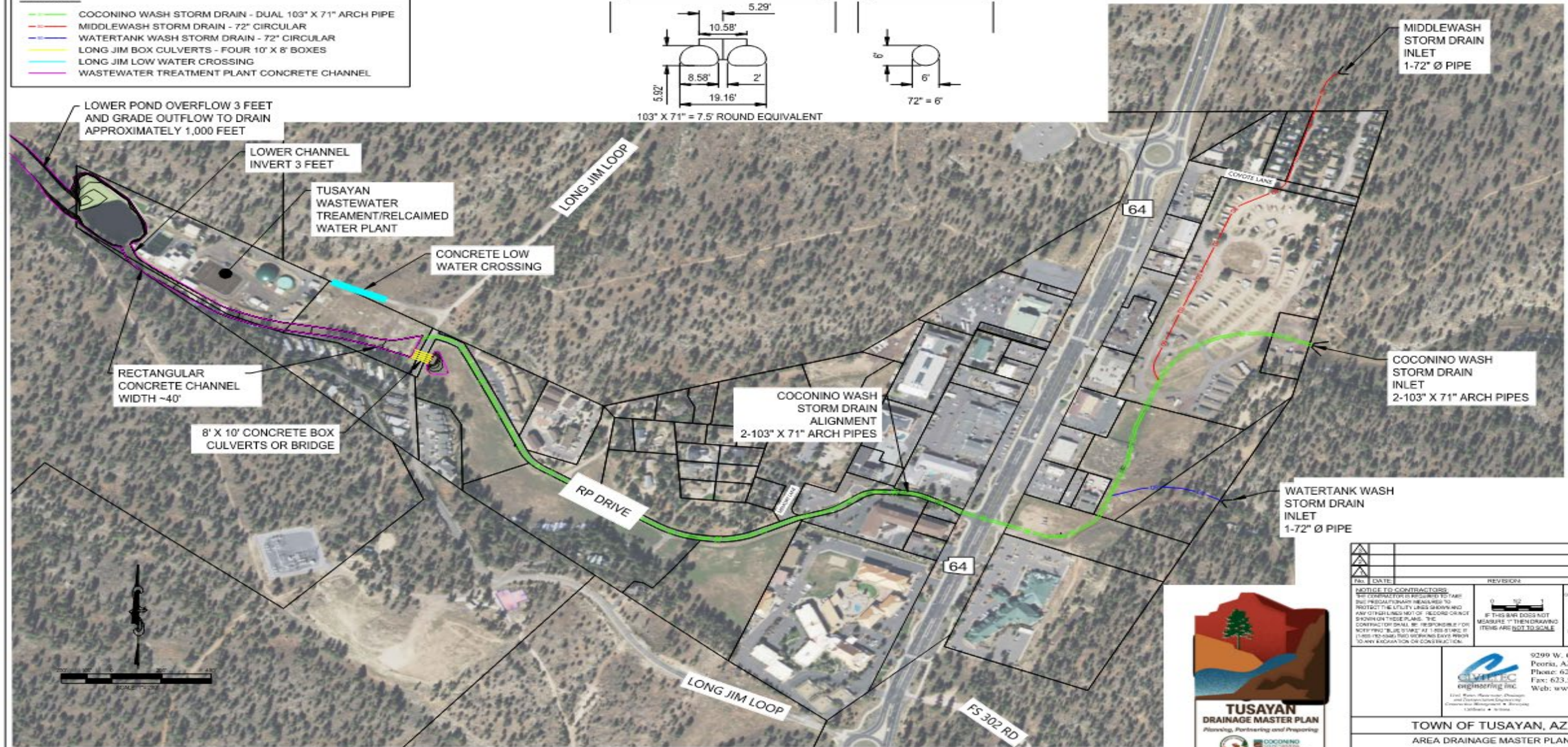
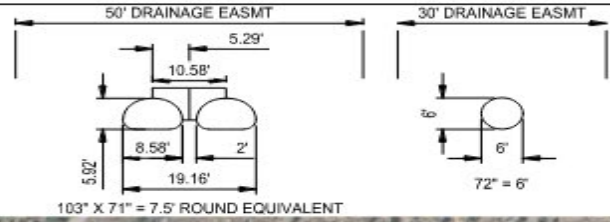
- **Tusayan Drainage Master Plan completed**
- **In-Town Geotechnical Work completed**
- **On-Forest Phase 1 Geotechnical Work is completed**
- **Utility Designating completed**
- **Field Survey for property monuments completed**
- **30% Plans and Design Concept Report completed for in-town flood mitigation**
- **Significant progress on completing the necessary studies and analyses for the Tusayan Pines Flood Retarding Structure**



DRAINAGE MASTER PLAN UPDATE

LEGEND: 11/20/2025

- COCONINO WASH STORM DRAIN - DUAL 103" X 71" ARCH PIPE
- MIDDLEWASH STORM DRAIN - 72" CIRCULAR
- WATERTANK WASH STORM DRAIN - 72" CIRCULAR
- LONG JIM BOX CULVERTS - FOUR 10' X 8' BOXES
- LONG JIM LOW WATER CROSSING
- WASTEWATER TREATMENT PLANT CONCRETE CHANNEL



<p>NOTICE TO CONTRACTORS: THE CONTRACTOR IS REQUIRED TO TAKE ALL NECESSARY MEASURES TO PROTECT THE UTILITY LINES SURROUNDING ANY EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OWNERS OF ANY EXISTING UTILITY LINES AND WORKING EXITS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> <th>APP.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISIONS	APP.				
NO.	DATE	REVISIONS	APP.							
<p>TUSAYAN DRAINAGE MASTER PLAN Planning, Partnering and Preparing</p>		<p>9299 W. Olive Ave. Ste. 405 Peoria, AZ 85345 Phone: 623.582.0970 Fax: 623.582.1973 Web: www.civiltec.com</p>								
<p>TOWN OF TUSAYAN, AZ AREA DRAINAGE MASTER PLAN PROPOSED DRAINAGE IMPROVEMENTS EXHIBIT</p>										
DR: CJD	CH: CJD	DIR: DJF	JN: 2025/11/20	SHEET 1 OF 1						



DRAINAGE MASTER PLAN UPDATE



TOWN OF TUSAYAN, AZ AREA DRAINAGE MASTER PLAN DRAINAGE IMPROVEMENT PLANS A PORTION OF SECTION 24, TOWNSHIP 30N, RANGE 2E GILA AND SALT RIVER BASE AND MERIDIAN, COCONINO COUNTY, ARIZONA

OWNER
COCONINO COUNTY
FLOOD CONTROL DISTRICT
3802 E. COMMERCE
FLAGSTAFF, AZ 86001
P: 928.638.9609
F: 928.638.9608
CONTACT: L. LINDEN ANDREAS

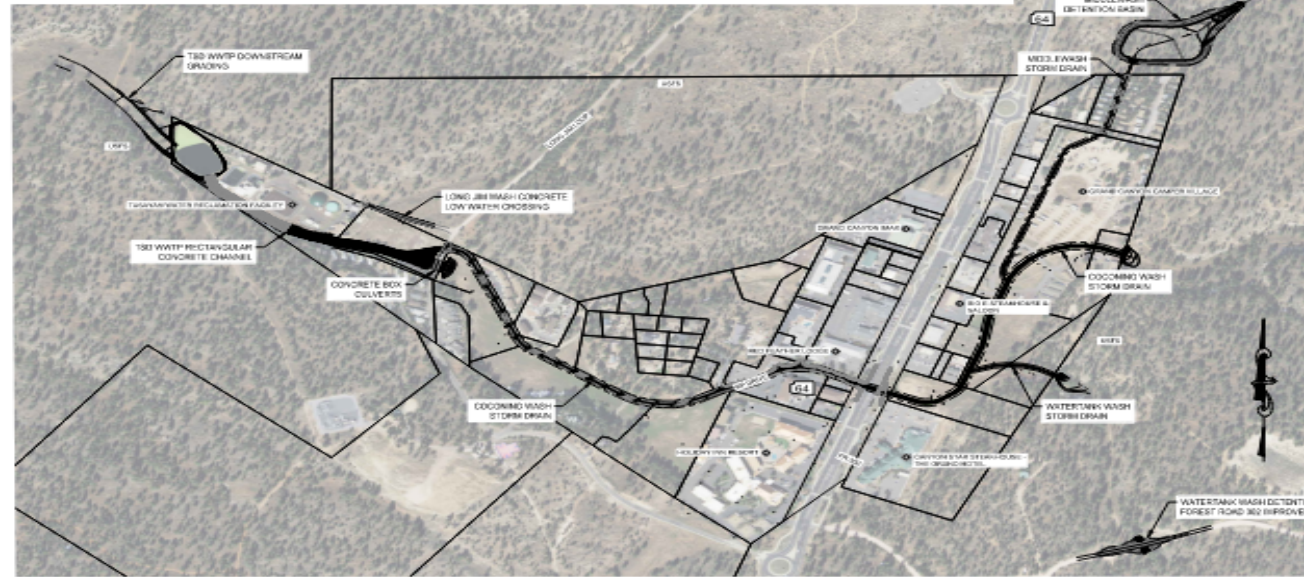
OWNER
TOWN OF TUSAYAN
800 WILSON DRIVE
GRAND CANYON, AZ 86001
P: 928.638.9609
CONTACT: GREG CLIFTON

SURVEYOR
JERAM WILLOW ENGINEERING, INC.
2800 N. WILLOW CREEK ROAD
PRESCOTT, AZ 86301
P: 928.771.2376
F: 928.771.2377
CONTACT: MARK POLYDOROS, PLS

CIVIL ENGINEERS
CIVILTEC ENGINEERING, INC.
8200 W. OLIVE AVENUE, STE. #405
PHOENIX, AZ 85044
P: 602.982.8070
F: 602.982.9653
CONTACT: CHRISTOPHER J. DUSZA, P.E., CFM

J.E. FULLER HYDROLOGY & GEOTECHNICAL, INC.
3111 N. GARDEN CT. STE 108
FLAGSTAFF, AZ 86004
P: 928.214.0887
F: 928.214.3124
CONTACT: ALE LOWENRICH, P.E., CFM

Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES
3	ABBREVIATIONS & LINETYPES
4	SHEET INDEX
5	SHEET INDEX 2
6	MIDDLEWASH & WATERTANK WASH SO SURVEY CONTROL
7	COCONINO WASH SURVEY CONTROL
8	TSD WWTP CHANNEL SURVEY CONTROL
9	SURVEY CONTROL DATA
10	COCONINO WASH STORM DRAIN PLAN & PROFILE
11	COCONINO WASH STORM DRAIN PLAN & PROFILE
12	COCONINO WASH STORM DRAIN PLAN & PROFILE
13	COCONINO WASH STORM DRAIN PLAN & PROFILE
14	COCONINO WASH STORM DRAIN PLAN & PROFILE
15	COCONINO WASH STORM DRAIN PLAN & PROFILE
16	COCONINO WASH STORM DRAIN PLAN & PROFILE
17	COCONINO WASH STORM DRAIN PLAN & PROFILE
18	COCONINO WASH STORM DRAIN PLAN & PROFILE
19	COCONINO WASH STORM DRAIN PLAN & PROFILE
20	COCONINO WASH STORM DRAIN PLAN & PROFILE
21	COCONINO WASH STORM DRAIN PLAN & PROFILE
22	COCONINO WASH STORM DRAIN PLAN & PROFILE
23	MIDDLEWASH DETENTION BASIN PLAN & PROFILE
24	MIDDLEWASH STORM DRAIN PLAN & PROFILE
25	MIDDLEWASH STORM DRAIN PLAN & PROFILE
26	MIDDLEWASH STORM DRAIN PLAN & PROFILE
27	MIDDLEWASH STORM DRAIN PLAN & PROFILE
28	MIDDLEWASH STORM DRAIN PLAN & PROFILE
29	WATERTANK WASH DETENTION PLAN & PROFILE
30	WATERTANK STORM DRAIN PLAN & PROFILE
31	WATERTANK STORM DRAIN PLAN & PROFILE
32	LONG JIM CANYON DETENTION BASIN PLAN & PROFILE
33	TSD WWTP MAIN CHANNEL PLAN & PROFILE
34	TSD WWTP MAIN CHANNEL PLAN & PROFILE
35	TSD WWTP MAIN CHANNEL PLAN & PROFILE
36	TSD WWTP MAIN CHANNEL PLAN & PROFILE
37	TSD WWTP MAIN CHANNEL PLAN & PROFILE
38	TSD WWTP MAIN CHANNEL SECTIONS
39	TSD WWTP DOWNSTREAM GRADING
40	TSD WWTP DOWNSTREAM GRADING
41	TSD SEWER REALIGNMENT PLAN & PROFILE
42	TSD SEWER REALIGNMENT PLAN & PROFILE
43	TSD SEWER REALIGNMENT DETAILS
44	RECLAIM LANE LOW WATER CROSSINGS
45	LONG JIM LOOP ROAD PROFILE & BOX CULVERTS
46	DETAILS
47	DETAILS
48	DETAILS
49	DETAILS
50	DETAILS
51	DETAILS



TOWN OF TUSAYAN MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

TUSAYAN ADIRP UTILITY COORDINATION LIST					
UTILITY	COMPANY	CONTACT	PHONE	EMAIL	APPROVAL VIA EMAIL (DATE)
ELECTRIC	ARIZONA PUBLIC SERVICE	CHAD BROOKS	O: 928.775.6440 C: 928.231.2832	CHAD.BROOKS@APS.COM	
TELEPHONE	LUMEN (FORMERLY CENTURY LINK)	RODNEY MICHIE	O: 801.484.3807	RICHIE@TERRATECHLLC.NET	
WATER	HYDRO RESOURCES	JOHN RUETER	O: 928.680.0822	JOHN@JWRUETER.COM	
IRRIGATION	TOWN OF TUSAYAN	CHARLIE HENDERX	O: 928.638.9930 C: 928.631.4297	TUSAYANTOWNMANAGER@TUSAYAN-AZ.GOV	
RECLAIMED SEWER	SOUTH GRAND CANYON SANITARY DISTRICT	BEN GOMEZ	O: 928.638.0936	BGCS2090@YAHOO.COM	
CULVERTS, STORM DRAINS	ADOT	SHERI CHESSER	O: 928.625.4298	SCHESSER@AZDOT.GOV	

EARTHWORK QUANTITIES
CUT = 0000 CY
FILL = 0000 CY

THESE QUANTITIES ARE FOR BONDING AND PERMITTING PURPOSES ONLY. THEY ARE NOT FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOT UTILIZE THESE QUANTITIES, AND MUST AUTHORIZE THEIR OWN QUANTITIES FOR THE SUBMISSION OF THEIR BID.

NO SHRINK OR SWELL ASSUMED

 DATE: _____ REVISIONS: _____ APPR: _____	 0 10 20 FEET	 CIVILTEC ENGINEERING, INC. 8200 W. OLIVE AVENUE, STE. 405 PHOENIX, AZ 85044 PHONE: 602.982.8070 FAX: 602.982.9653 WWW.CIVILTEC.COM	 JE FULLER ENGINEERING, INC. 3111 N. GARDEN CT., STE. 108 FLAGSTAFF, ARIZONA 86004 PHONE: 928.214.0887 FAX: 928.214.3124 WWW.JEFULLER.COM
<p>PRELIMINARY</p> <p>NOTICE TO CONTRACTORS: THE CONTRACTOR IS REQUIRED TO TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE EXACT UTILITY RECORDS THROUGH THE APPROPRIATE AGENCIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION.</p> <p>IF THIS BARR DOES NOT MEASURE IT THEN DRAWING ITEMS ARE NOT TO SCALE</p>			
<p>TOWN OF TUSAYAN, AZ TUSAYAN AREA DRAINAGE MASTER PLAN DRAINAGE IMPROVEMENT PLANS COVER</p>			



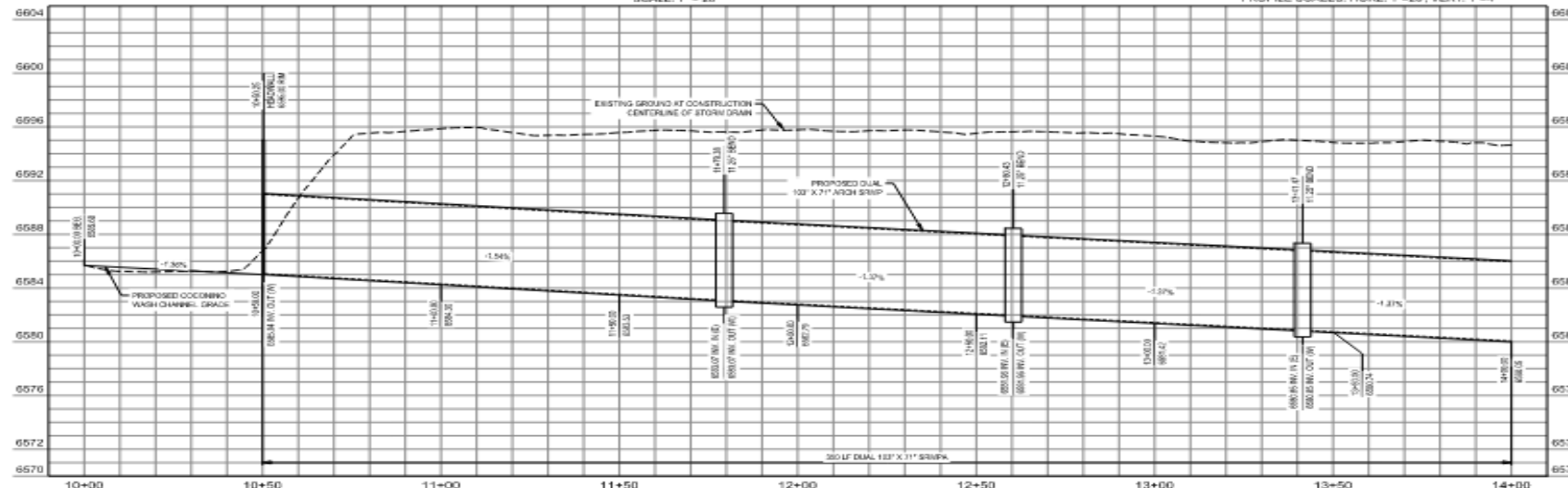
DRAINAGE MASTER PLAN UPDATE



DUAL ARCH STORM DRAIN

SCALE: 1" = 20'

PROFILE SCALES: HORIZ: 1"=20', VERT: 1"=4'

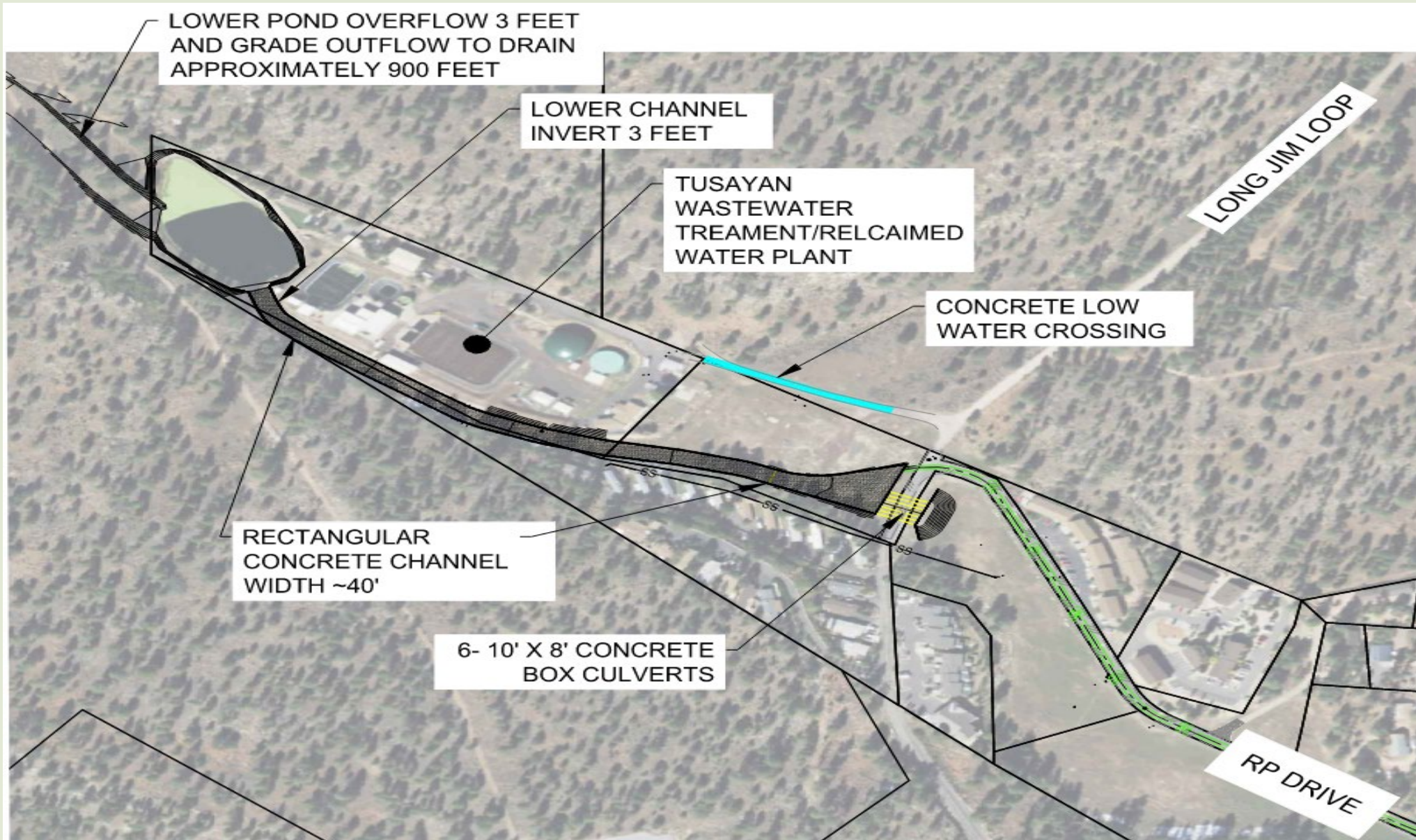


NOTES	
○	CONSTRUCTION QTY.
□	REMOVALS QTY.
○	UTILITIES QTY.
○	EASEMENTS / RIGHT-OF-WAY QTY.

<p>PRELIMINARY</p> <p>EXHIBIT 304-0028</p>		<p>CIVILTEC ENGINEERING, INC.</p> <p>1029 N. 68th Ave., Ste. 402 Phoenix, AZ 85041 Phone: 602.330.2870 Fax: 602.330.4112 www.civiltec.com</p>	<p>JE FULLER</p> <p>1111 N. Central Ex. Rd. Phoenix, Arizona 85024 Phone: 480.733.4887 Fax: 480.733.2131 www.jefuller.com</p>
<p>TOWN OF TUSAYAN, AZ TUSAYAN AREA DRAINAGE MASTER PLAN DRAINAGE IMPROVEMENT PLANS COCONINO WASH STORM DRAIN PLAN & PROFILE</p>			
DE: NBD	CH: CJD	DR: NBD	JM: 2025/10/02
SHEET			10 OF 51

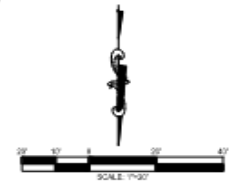
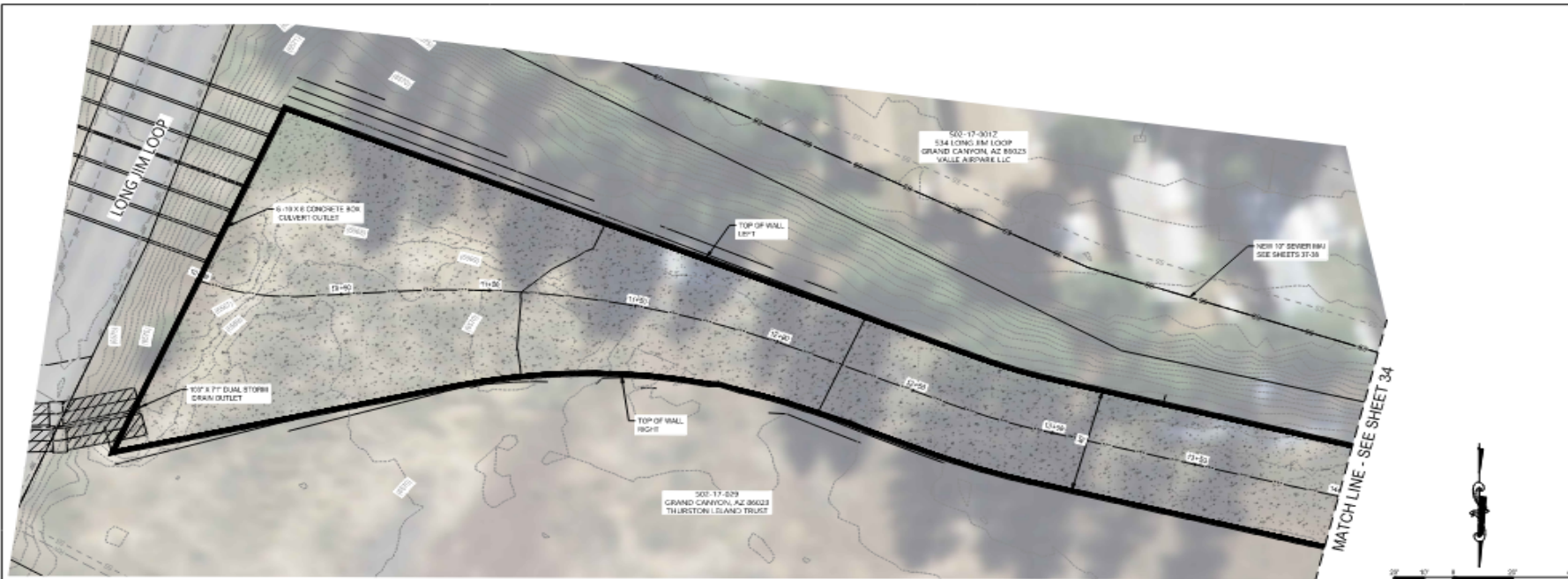


DRAINAGE MASTER PLAN UPDATE



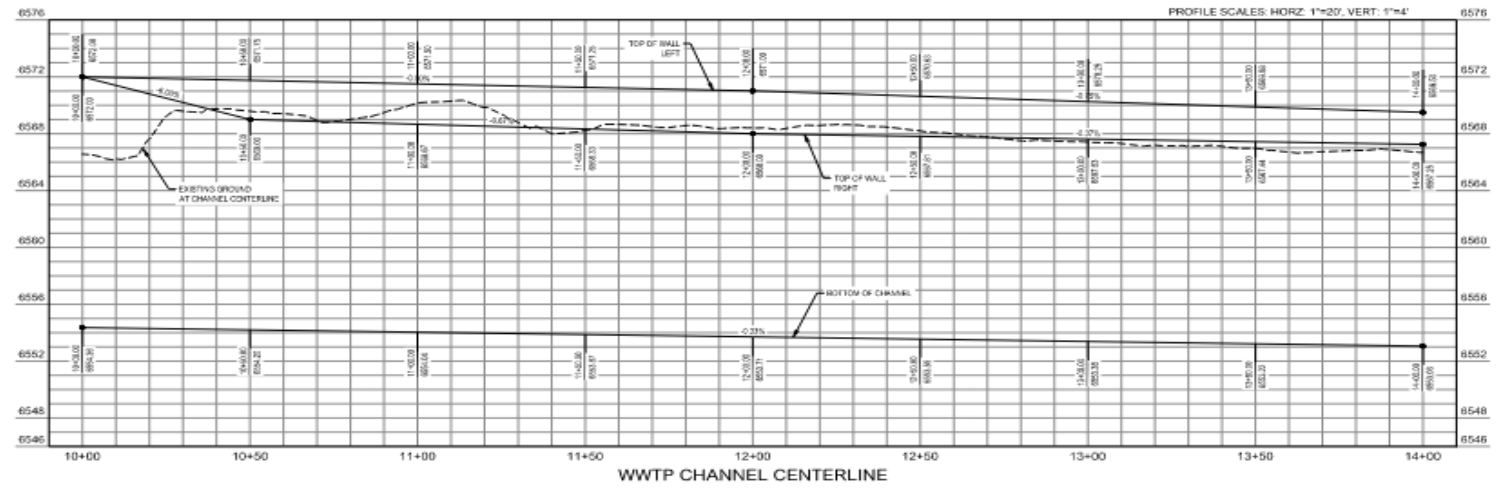


DRAINAGE MASTER PLAN UPDATE



WWTP MAIN CHANNEL
SCALE: 1" = 20'

NOTES	
○	CONSTRUCTION QTY.
□	REMOVALS QTY.
○	UTILITIES QTY.
○	EASEMENTS / RIGHT-OF-WAY QTY.

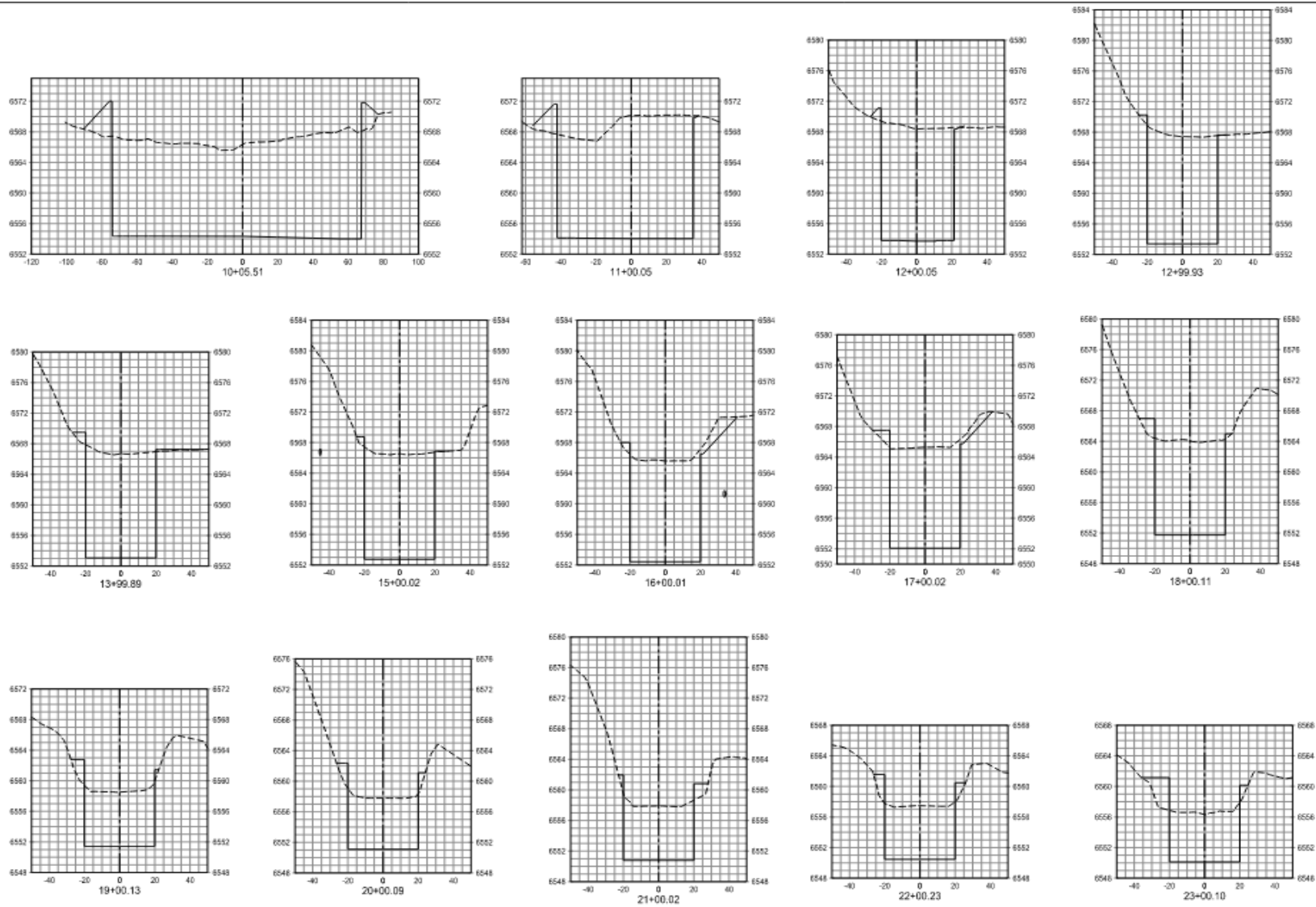


WWTP CHANNEL CENTERLINE

<p>PRELIMINARY</p> <p>EXPINS-2011-0205</p>	<p>ENGINEERING INC.</p> <p>1111 N. Colton Ct., Ste. 109 Flagstaff, Arizona 86001 Phone: 908.714.8800 Fax: 480.743.2124 www.jefuller.com</p>	<p>JE FULLER</p> <p>3111 N. Colton Ct., Ste. 109 Flagstaff, Arizona 86001 Phone: 908.714.8800 Fax: 480.743.2124 www.jefuller.com</p>
<p>TOWN OF TUSAYAN, AZ TUSAYAN AREA DRAINAGE MASTER PLAN DRAINAGE IMPROVEMENT PLANS TSD WWTP MAIN CHANNEL PLAN & PROFILE</p>		
DE: NBD	CH: CJD	DR: NBD
JUN 2025/4/4/03	35	OF 51



DRAINAGE MASTER PLAN UPDATE



NOTES	
<input type="checkbox"/>	CONSTRUCTION QTY.
<input type="checkbox"/>	REMOVALS QTY.
<input type="checkbox"/>	UTILITIES QTY.
<input type="checkbox"/>	EASEMENTS / RIGHT-OF-WAY QTY.

NO.	DATE	REVISION	APP.

NOTICE TO CONTRACTORS:
 THE CONTRACTOR IS REQUIRED TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTION OF ANY DAMAGE TO ANY EXISTING UTILITY LINES OR CONSTRUCTION.

IF THIS DRAWING DOES NOT MEASURE 1" = 20' DRAWING ITEMS ARE NOT TO SCALE

ALL UTILITIES SHOWN HEREON ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY ALL UTILITIES BEFORE ANY CONSTRUCTION.

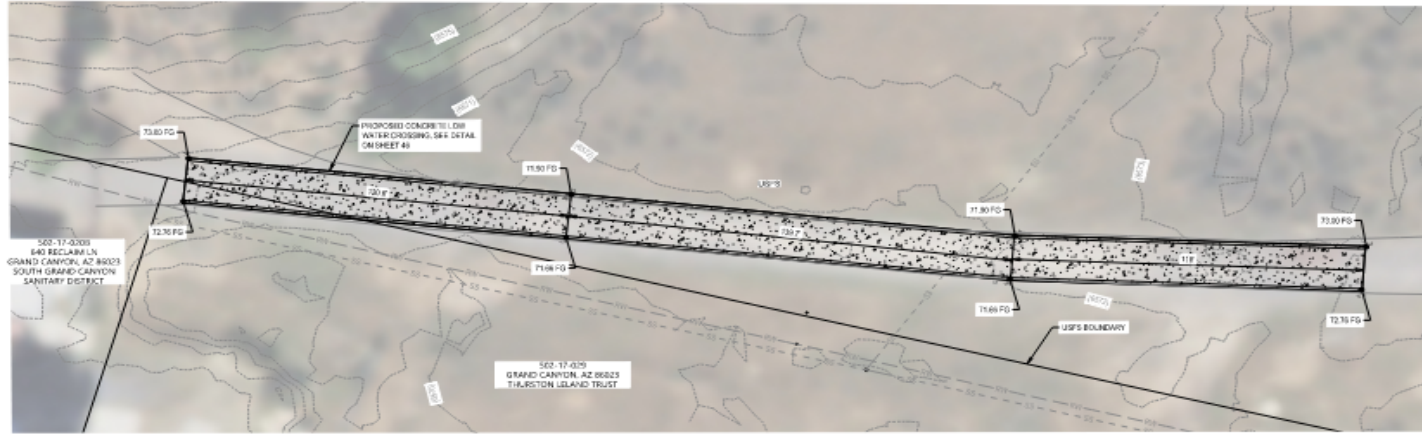
PRELIMINARY

JE FULLER ENGINEERING, INC.
 3111 N. Cactus Ave., Ste. 200
 Phoenix, Arizona 85018
 Phone: 602.944.8887
 Fax: 602.944.8887
 Web: www.jefuller.com

TOWN OF TUSAYAN, AZ
 TUSAYAN AREA DRAINAGE MASTER PLAN
 DRAINAGE IMPROVEMENT PLANS
 TSD WWTP MAIN CHANNEL SECTIONS



DRAINAGE MASTER PLAN UPDATE



LONG JIM LOOP LOW WATER CROSSING
SCALE: 1" = 20'

*IN PROGRESS
TO BE PROVIDED AT 60% SUBMITTAL*

LONGJIM LOOP LOW WATER CROSSING
SCALE: 1" = 20'

NOTES	
<input type="checkbox"/>	CONSTRUCTION
<input type="checkbox"/>	REMOVALS
<input type="checkbox"/>	UTILITIES
<input type="checkbox"/>	EASEMENTS / RIGHT-OF-WAY

No.	DATE	REVISION	APP.

NOTICE TO CONTRACTORS:
THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT THE UTILITIES AND BARRIERS AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THESE AGENCIES AT LEAST 10 BUSINESS DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

PRELIMINARY

ENGINEERING INC.
201 N. 20th Ave., Ste. 100
Flagstaff, Arizona 86001
Phone: 908.751.1887
Fax: 908.751.1888
www.jefuller.com

JE FULLER
2111 N. Cactus Ct., Ste. 100
Flagstaff, Arizona 86001
Phone: 908.751.1887
Fax: 908.751.1888
www.jefuller.com

TOWN OF TUSAYAN, AZ
TUSAYAN AREA DRAINAGE MASTER PLAN
DRAINAGE IMPROVEMENT PLANS
RECLAIM LANE LOW WATER CROSSING

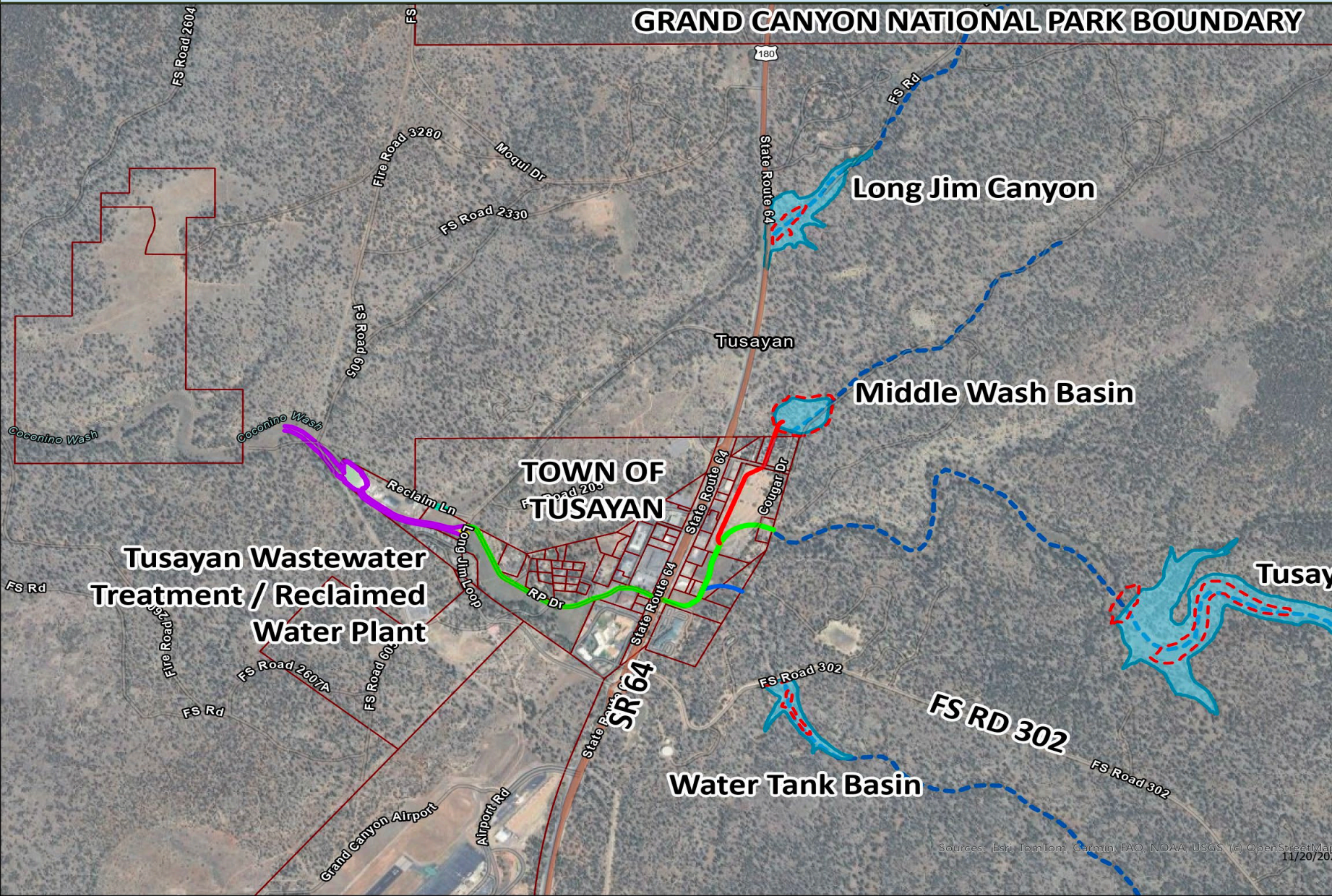
DE: HBD CH: CJJ DR: HBD JN: 202541402 SHEET 44 OF 51



**SMALL BASINS ADJACENT TO TOWN
30% PLANS AND DCR
JOE LOVERICH, PE, JE FULLER HYDROLOGY**



DRAINAGE MASTER PLAN UPDATE



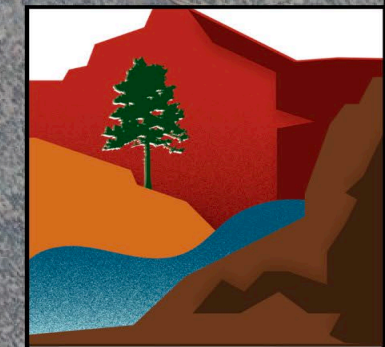
TUSAYAN DRAINAGE MASTER PLAN

Legend

- Basin Inundation
- Grading Limits
- Channel Flowline
- Middle Wash Stormdrain
- Channel Improvements
- Coconino Wash Stormdrain
- Water Tank Wash Stormdrain
- Box Culvert
- Concrete Low Water Crossing
- Coconino County Parcels

N

0 500 1,000 2,000 3,000 Feet

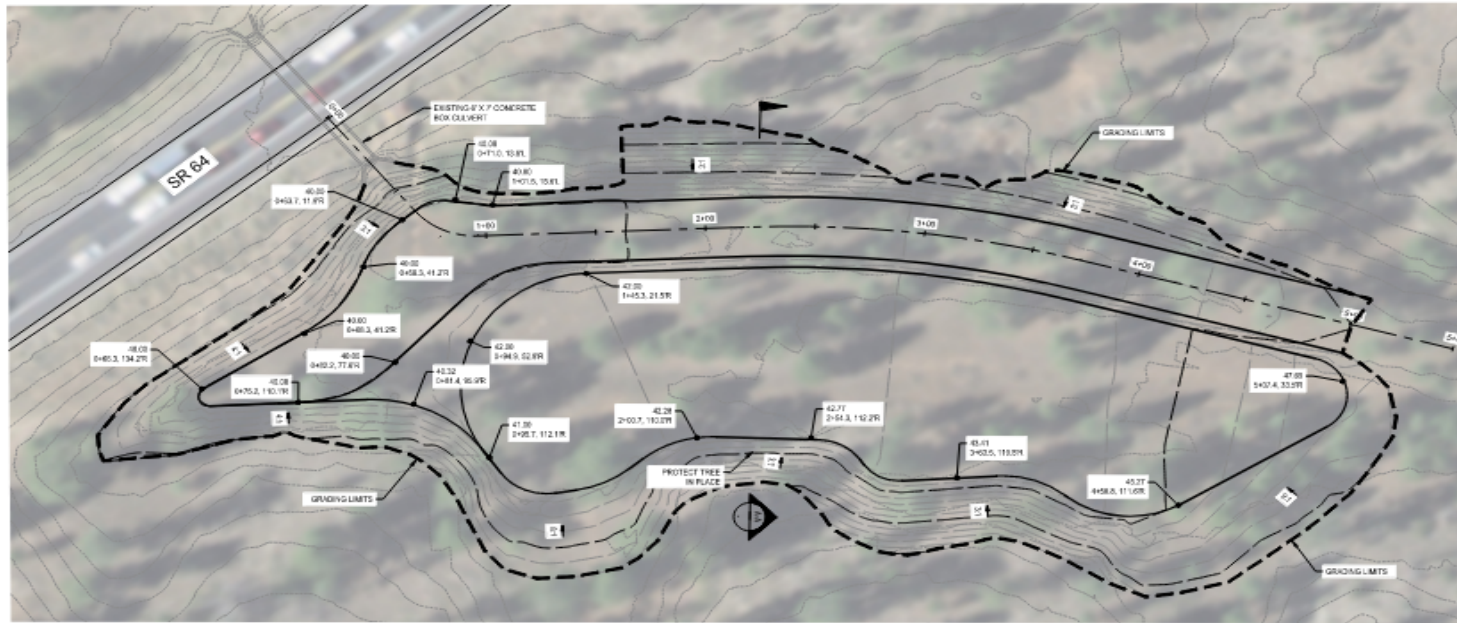


TUSAYAN
DRAINAGE MASTER PLAN
Planning, Partnering and Preparing

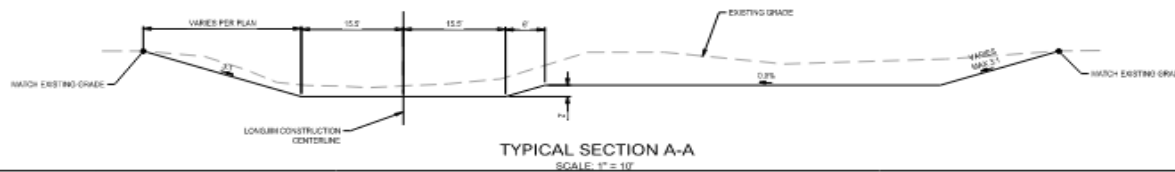
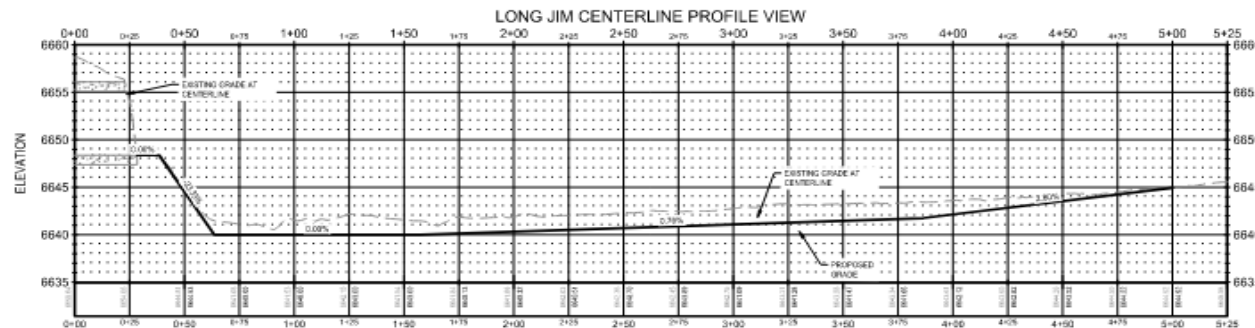
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community. 11/20/2025



DRAINAGE MASTER PLAN UPDATE



LONG JIM CANYON DETENTION BASIN
SCALE: 1" = 20'



TYPICAL SECTION A-A
SCALE: 1" = 10'

NOTES	
○	CONSTRUCTION
□	REMOVALS
○	UTILITIES
○	EASEMENTS / RIGHT-OF-WAY

NO.	DATE	REVISION	APP.

NOTICE TO CONTRACTORS:
THE CONTRACTOR IS REQUIRED TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT ACCORDING TO THE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-INSTALLING "BUBBLE STAKE" AT 100' INTERVALS IF PROPOSED GRADING AND EXISTING GRADE TO ANY EXCAVATION OR CONSTRUCTION.

PRELIMINARY

CLM/TEC ENGINEERING INC.
209 W. 10th Ave., Suite 401
Flagstaff, AZ 86001
Phone: 928.552.8110
Fax: 928.552.8111
Web: www.clmtec.com

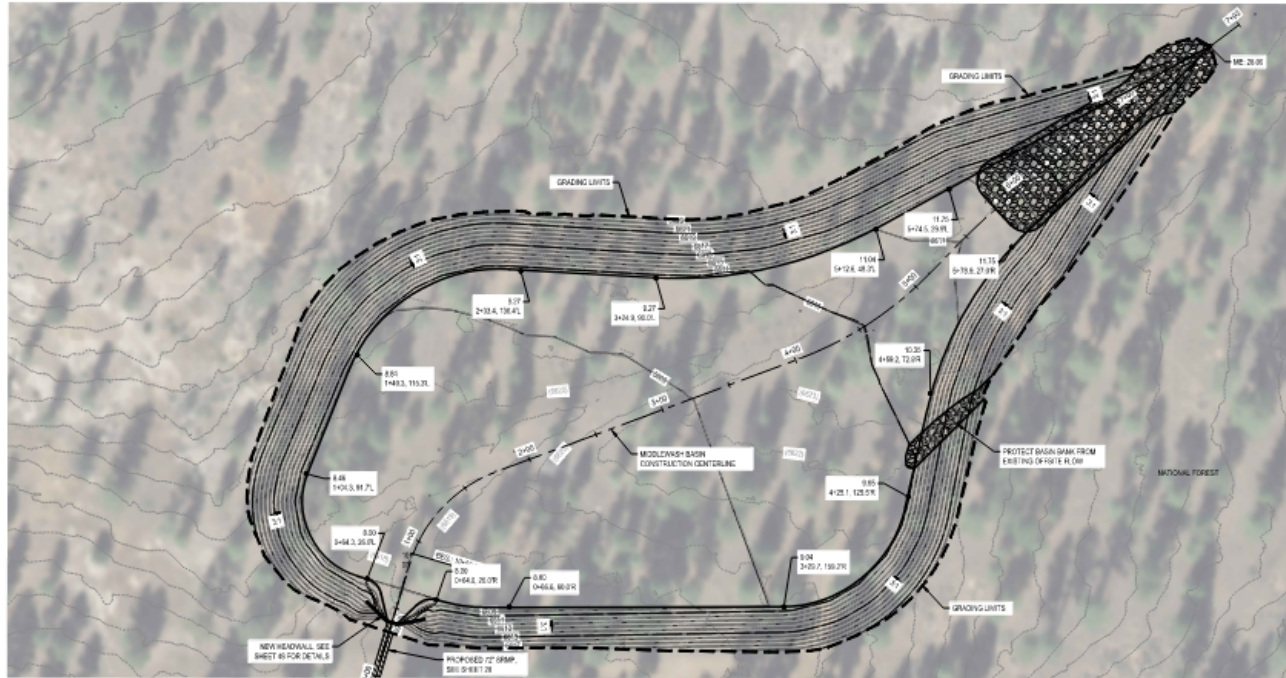
JE FULLER
3111 N. Cedar Ct., Ste. 100
Flagstaff, Arizona 86004
Phone: 928.711.1441
Fax: 928.711.2524
Web: www.jefuller.com

TOWN OF TUSAYAN, AZ
TUSAYAN AREA DRAINAGE MASTER PLAN
DRAINAGE IMPROVEMENT PLANS
LONG JIM CANYON DETENTION BASIN PLAN & PROFILE

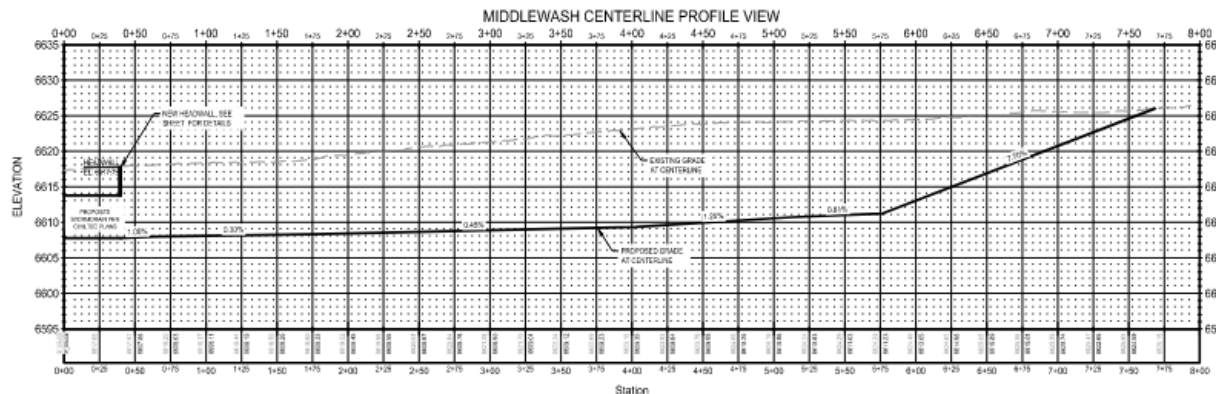
DE: NBD CH: CJD DR: NBD JN: 2025-11-03 SHEET 32 OF 51



DRAINAGE MASTER PLAN UPDATE



MIDDLEWASH BASIN
SCALE: 1" = 40'

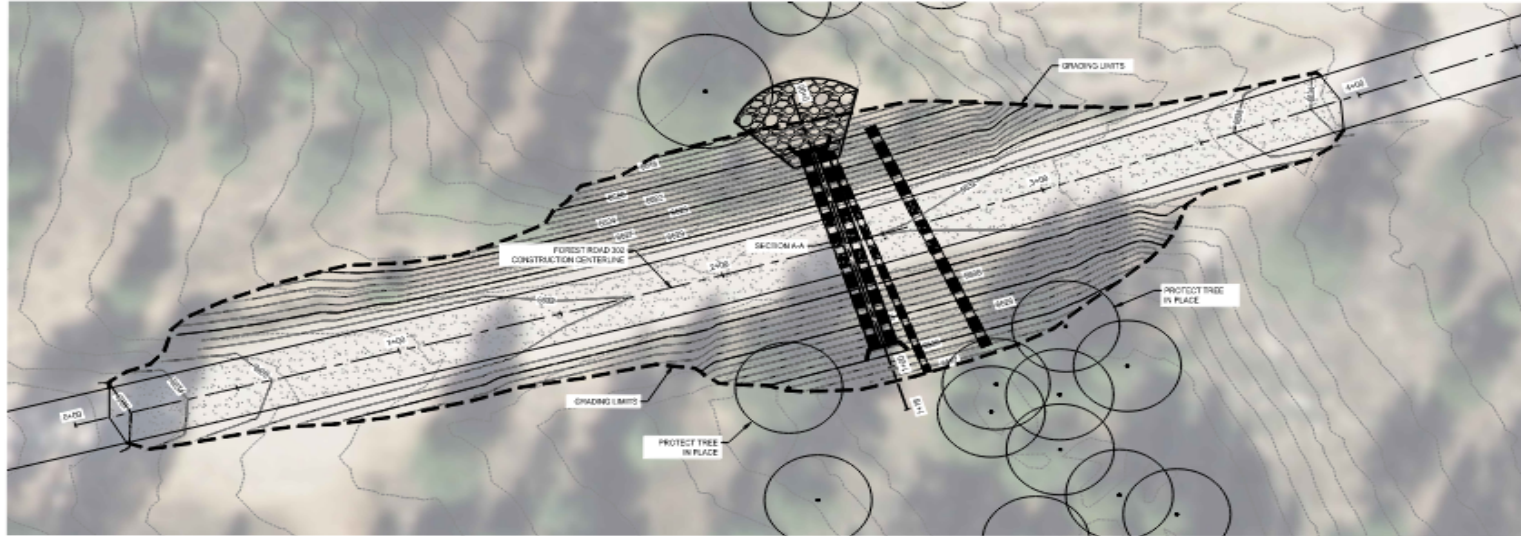


NOTES	
<input type="checkbox"/>	CONSTRUCTION
<input type="checkbox"/>	REMOVALS
<input type="checkbox"/>	UTILITIES
<input type="checkbox"/>	EASEMENTS / RIGHT-OF-WAY

<p>PRELIMINARY</p> <p>COCONINO COUNTY ENGINEERING INC.</p> <p>1000 N. Mill Ave., Suite 100 Flagstaff, AZ 86001 Phone: 908.751.4987 Fax: 908.751.4987 www.coconino.gov</p>	<p>JE FULLER</p> <p>1111 N. College Ave., 100 Flagstaff, Arizona 86001 Phone: 908.751.4987 Fax: 908.751.4987 www.jefuller.com</p>
<p>TOWN OF TUSAYAN, AZ TUSAYAN AREA DRAINAGE MASTER PLAN DRAINAGE IMPROVEMENT PLANS MIDDLEWASH DETENTION BASIN PLAN & PROFILE</p>	
<p>DE: MBD CH: CJC DR: MBD JN: 2024-04-03 SHEET 23 OF 51</p>	



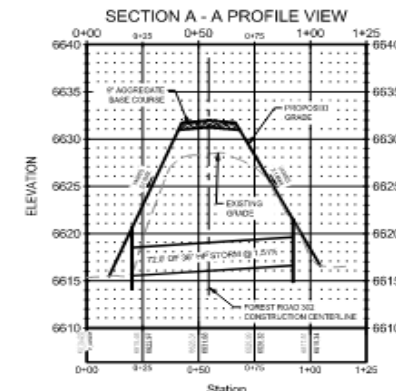
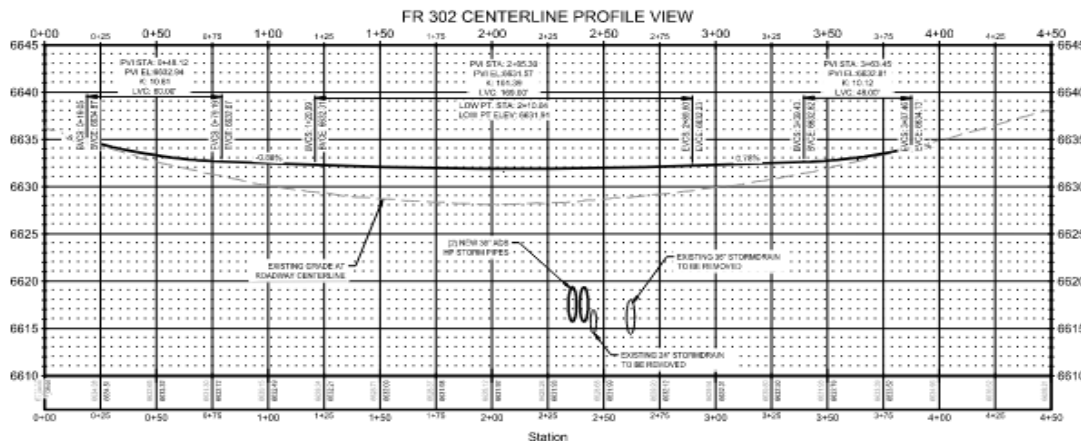
DRAINAGE MASTER PLAN UPDATE



FOREST ROAD 302 GRADING - WATERTANK WASH
 SCALE: 1" = 20'



NOTES	
<input type="checkbox"/>	CONSTRUCTION
<input type="checkbox"/>	REMOVALS
<input type="checkbox"/>	UTILITIES
<input type="checkbox"/>	EASEMENTS / RIGHT-OF-WAY



NO.	DATE	REVISION	APP.

NOTICE TO CONTRACTORS:
 THE CONTRACTOR IS REQUIRED TO USE THE PRELIMINARY GRADES TO PROTECT THE UTILITY LINES AND AS ANY DIMENSIONS NOT OF RECORD OR NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING TO BE CORRECT AT HIS OWN RISK. THE CONTRACTOR SHALL BE RESPONSIBLE TO ANY EASEMENT OR CONSTRUCTION.

PRELIMINARY
 TOWN OF TUSAYAN

JE FULLER ENGINEERING INC.
 3111 N. Chino Ct., Ste. 100
 Flagstaff, Arizona 86001
 Phone: 908.714.4447
 Fax: 908.714.2124
 www.jefullereng.com

TOWN OF TUSAYAN, AZ
 TUSAYAN AREA DRAINAGE MASTER PLAN
 DRAINAGE IMPROVEMENT PLANS
 WATERTANK WASH DETENTION PLAN & PROFILE

DE: NBD CH: CJD DR: NBD JUN 2024 (v.03) SHEET 29 OF 51



ON-FOREST FLOOD RETARDING STRUCTURE
JOE LOVERICH, PE, JE FULLER HYDROLOGY



DRAINAGE MASTER PLAN UPDATE



Project Status Update

- **On-Forest Phase 1 Geotechnical Work is completed**
- **Significant progress on completing the necessary studies and analyses for the Tusayan Pines Flood Retarding Structure**
- **Significant progress on environmental studies and now initiating the completion of the archaeological surveying and report preparation and initiating the formal NEPA process**
- **Very complex project and processes required to finalize design and secure ADWR & USFS permitting**



FLOOD MODELING

JOE LOVERICH, PE, JE FULLER HYDROLOGY



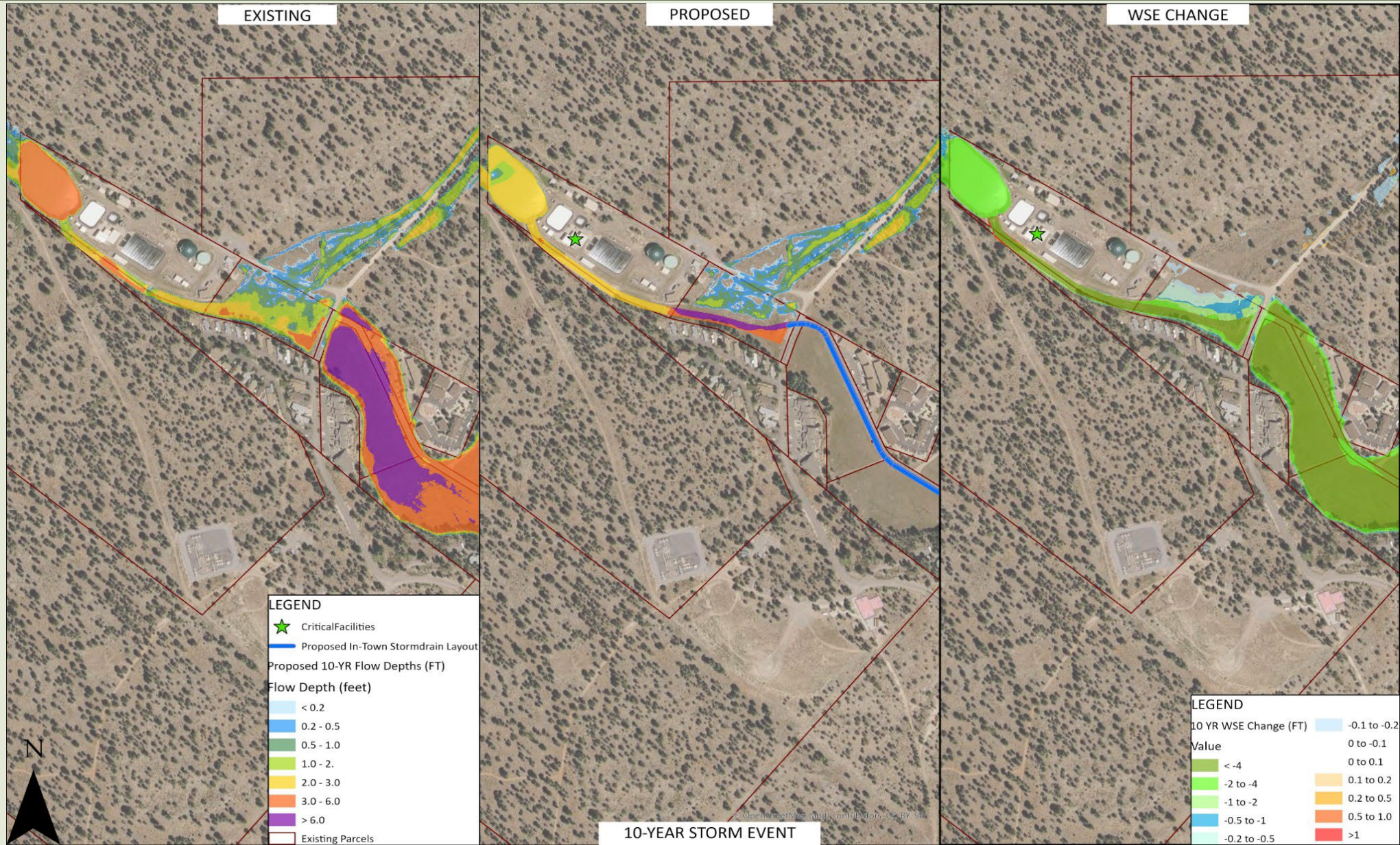
Modeling Results for Proposed Improvements

LOCATION	DESIGN STORM (yr)
SR-64	25
COCONINO WASH UPSTREAM OF WWTP	25
WWTP	100
MIDDLE WASH	100
WATERTANK WASH	100



DRAINAGE MASTER PLAN UPDATE

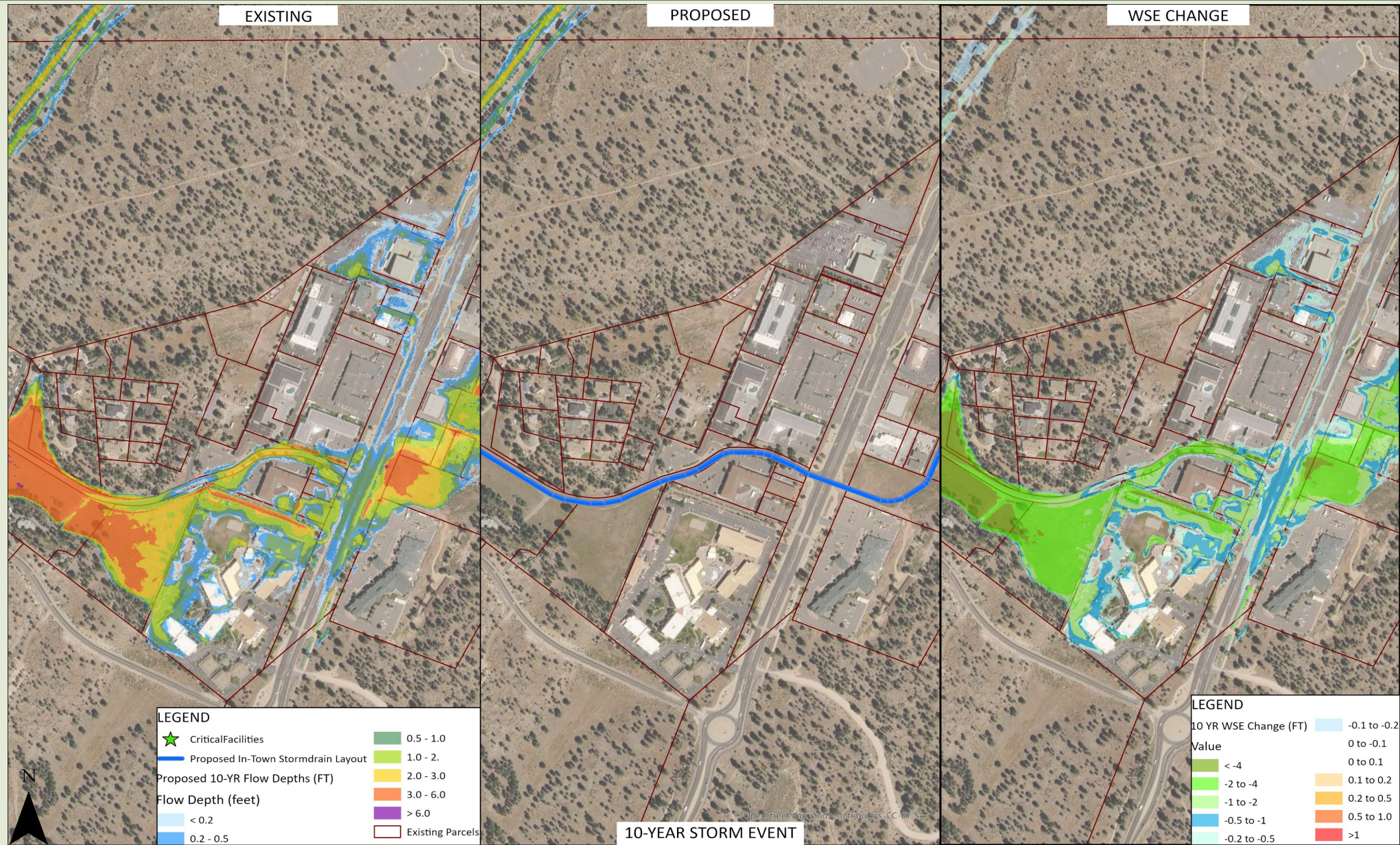
10-Year Results





DRAINAGE MASTER PLAN UPDATE

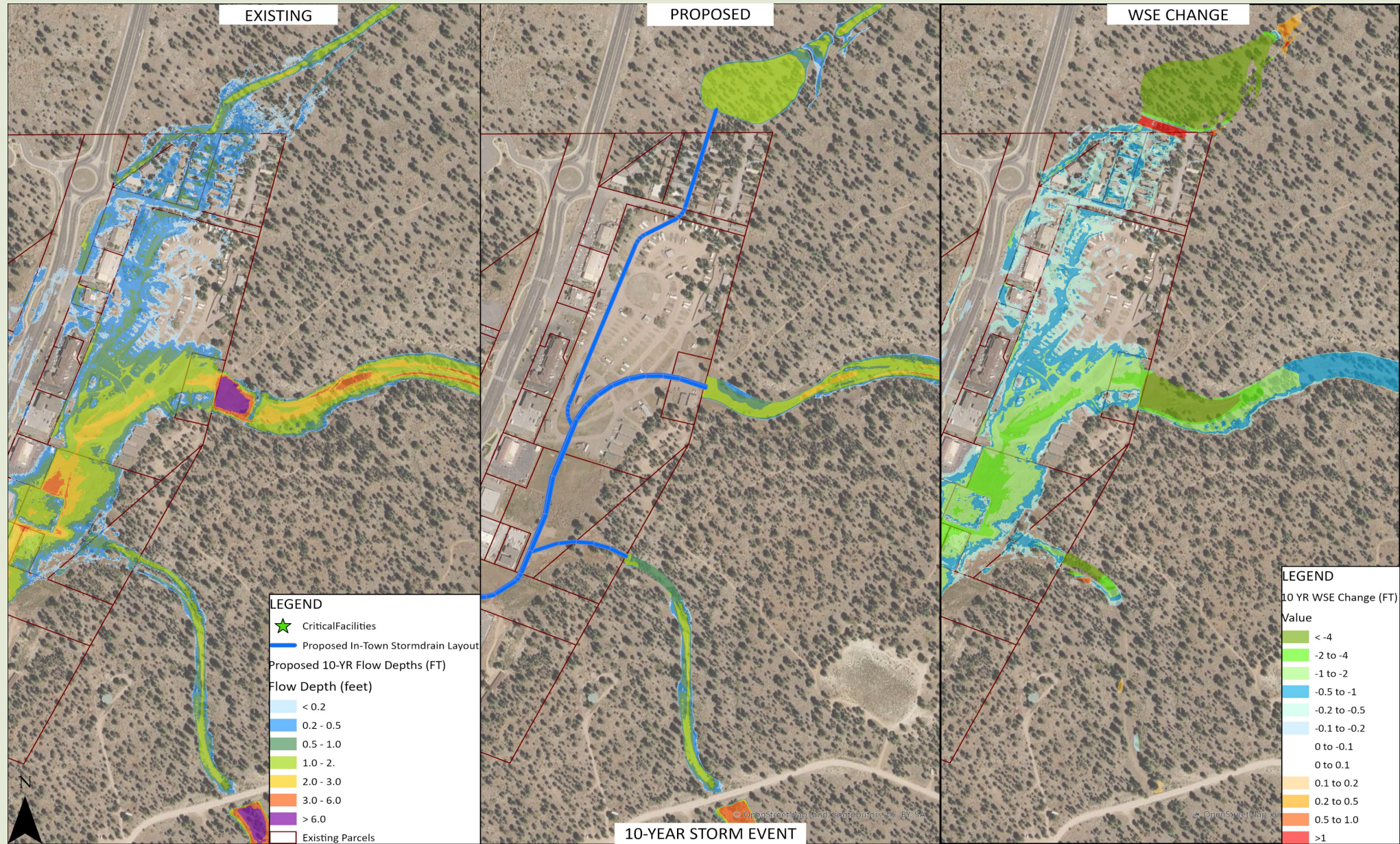
10-Year Results





DRAINAGE MASTER PLAN UPDATE

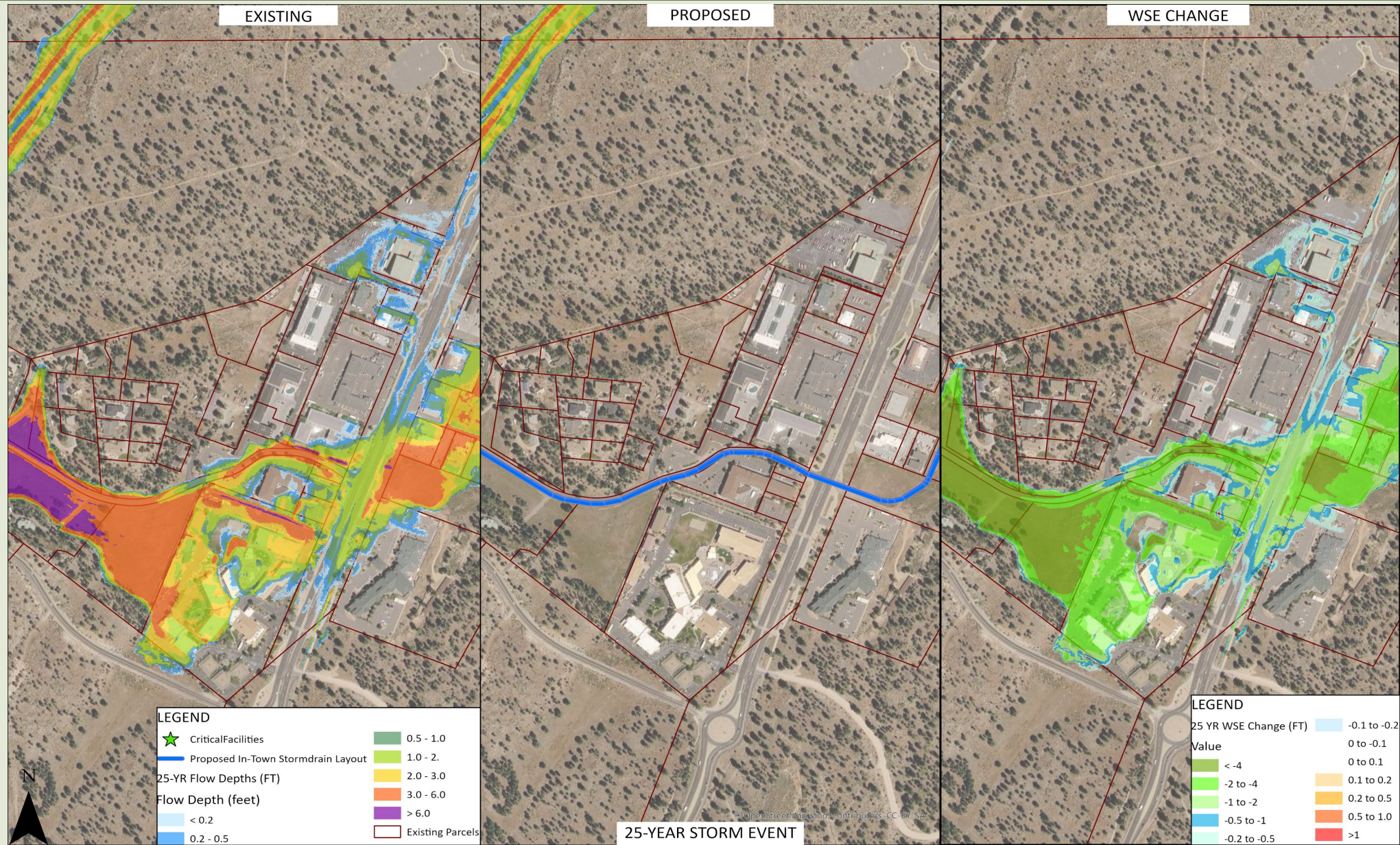
10-Year Results





DRAINAGE MASTER PLAN UPDATE

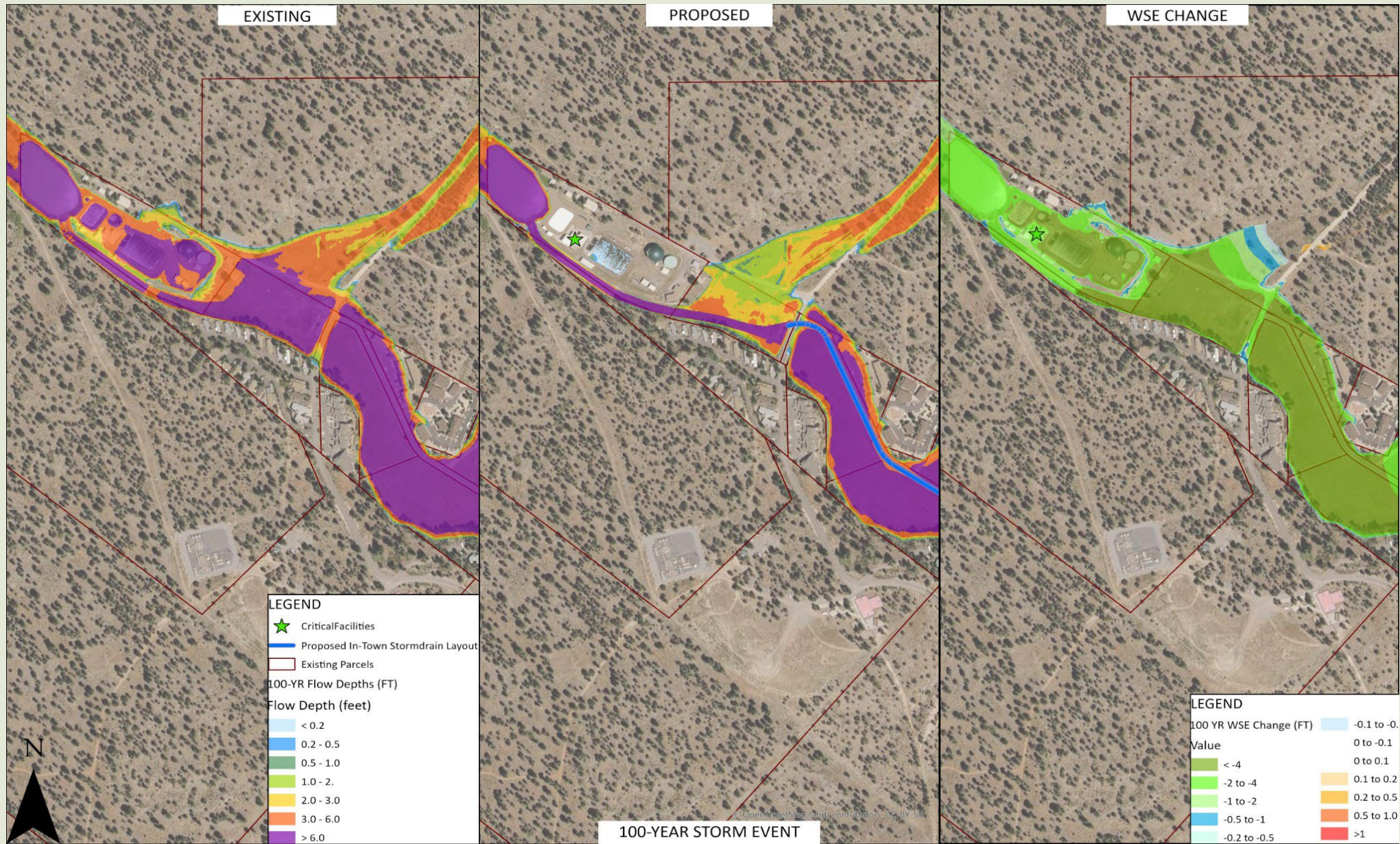
25-Year Results





DRAINAGE MASTER PLAN UPDATE

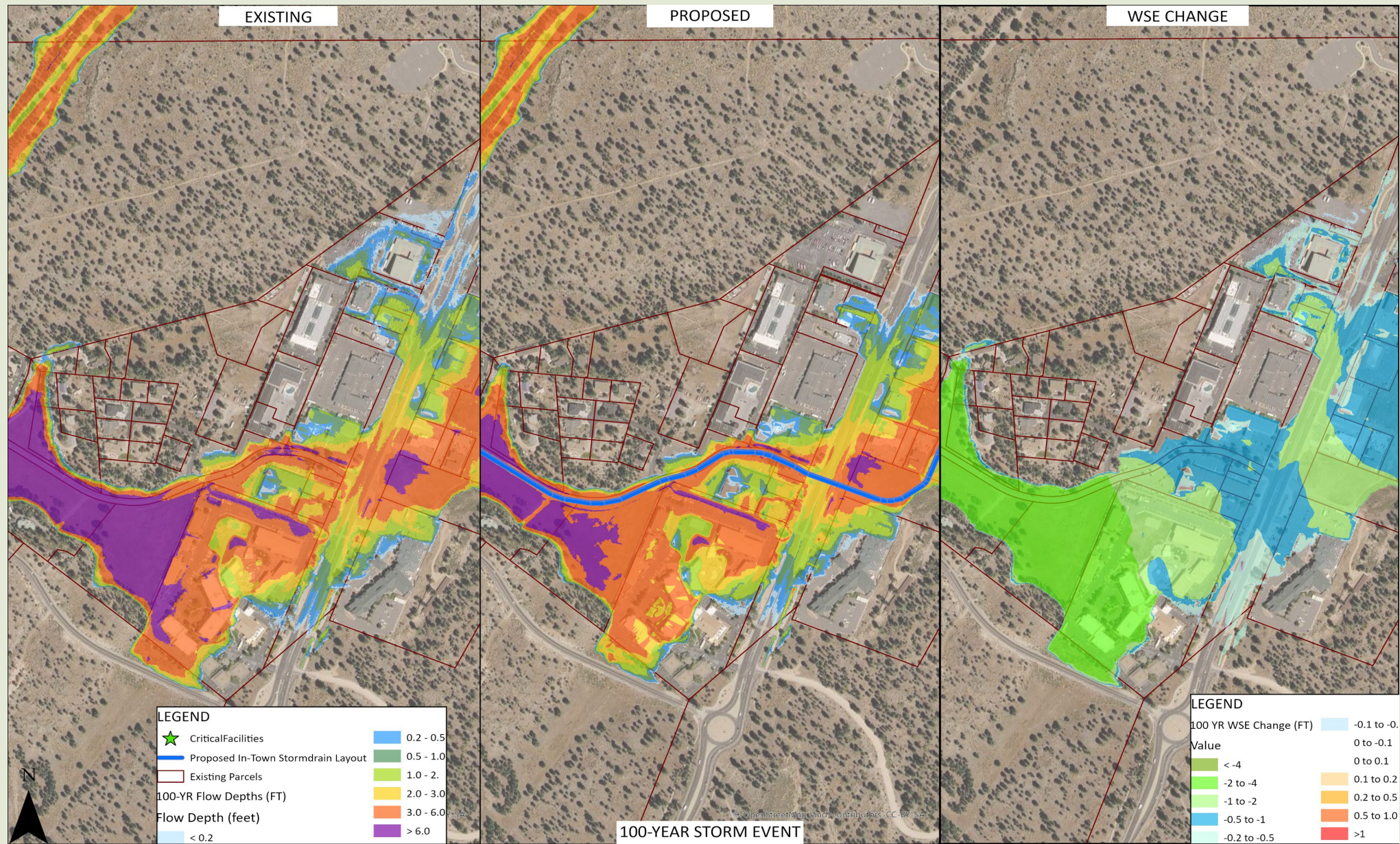
100-Year Results





DRAINAGE MASTER PLAN UPDATE

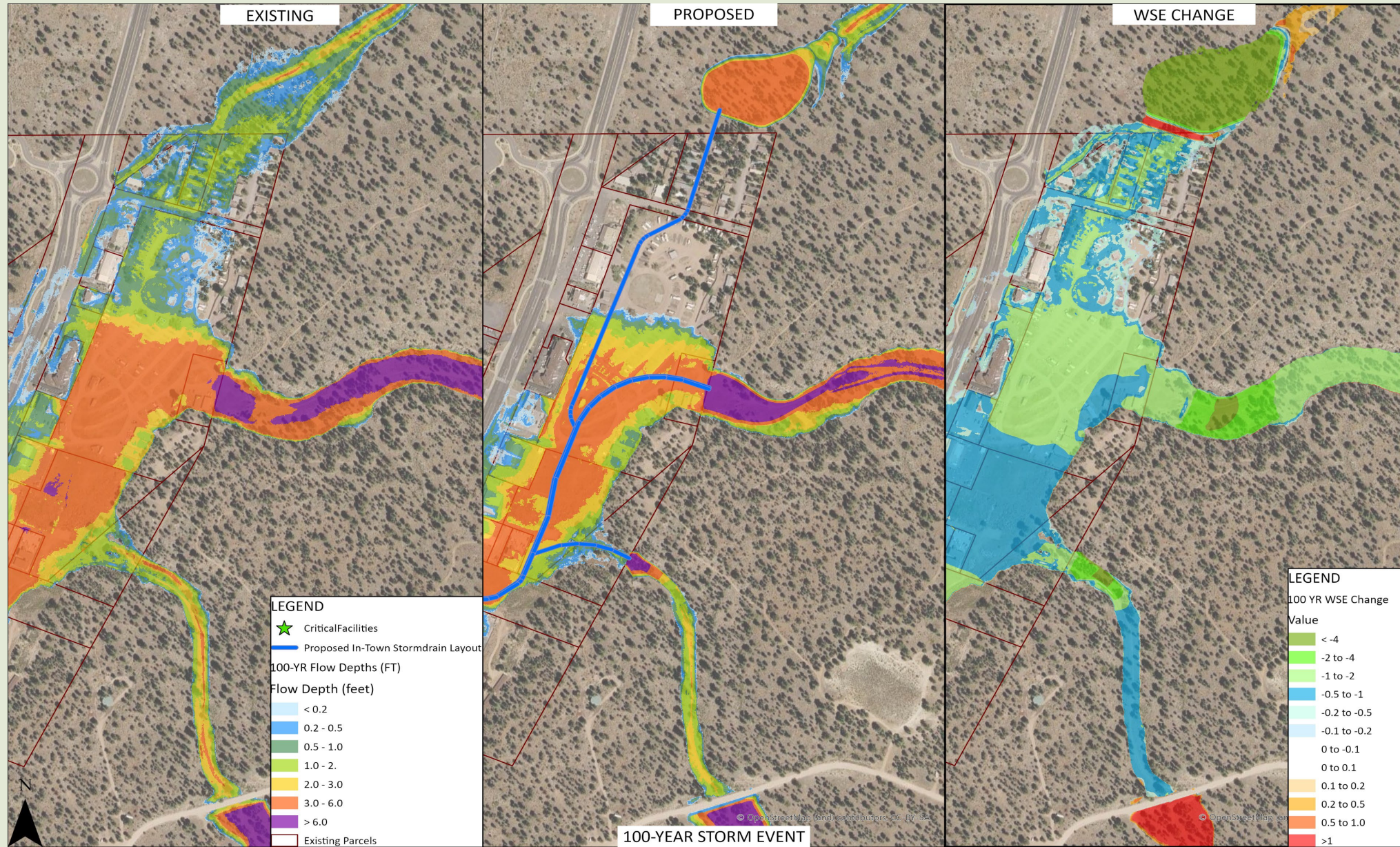
100-Year Results





DRAINAGE MASTER PLAN UPDATE

100-Year Results





FLAP & BUILD GRANT STATUS
SHAUN POOYOUUMA, FLOOD CONTROL DISTRICT
PROGRAM MANAGER



Federal Land Access Program (FLAP)

- **Project Submitted – Phase 1 of the *Ensuring Grand Canyon Visitor Access Project*, Tusayan Pines Flood Retarding Structure, Middle Wash Detention Basin & Water Tank Detention Basin**
- **Requested Amount was about \$30 million (FLAP formula adds inflation & other factors)**
- **Application was Submitted November 24, 2025**
- **No Grant Funding was Awarded**



Better Utilizing Investments to Leverage Development (BUILD)

- **Nationally Competitive Dept. of Transportation Grant**
- **Submitted Same Project as FLAP Grant**
- **Requested Amount will be \$25.94 million (no formula)**
 - **Proposing a \$2.6 million Grant Match (\$2.2 million from District/ \$200,000 from Town of Tusayan)**
- **Benefit/Cost Analysis Required - Very Complex**
- **Application Submitted February 24, 2026**
- **Awaiting Award Information/Update - Expected this Month**



SMART GRANT STATUS & FINANCIAL UPDATE
GREG CLIFTON, TOWN MANAGER
SHAUN POOYOUUMA, DISTRICT PROGRAM MANAGER



AZ SMART Grant Funding Status

- **SMART Grant Award - \$2,391,500**
- **Engineering Contract - \$2 million**
- **\$1,285,853 authorized as of June 2026; \$638,834 approved to be expended to complete both on-forest and in-town environmental process, and to complete the utility locating in-town = Total Authorized amount to be expended \$1,924,687**
- **\$75,313 Remaining in the Engineering Contract**

- **\$749,835 submitted for reimbursement to ADOT and been paid back to the Town of Tusayan**



NEXT STEPS

GREG CLIFTON, TOWN MANAGER

LUCINDA ANDREANI, DISTRICT ADMINISTRATOR



DRAINAGE MASTER PLAN UPDATE



Completing Engineering

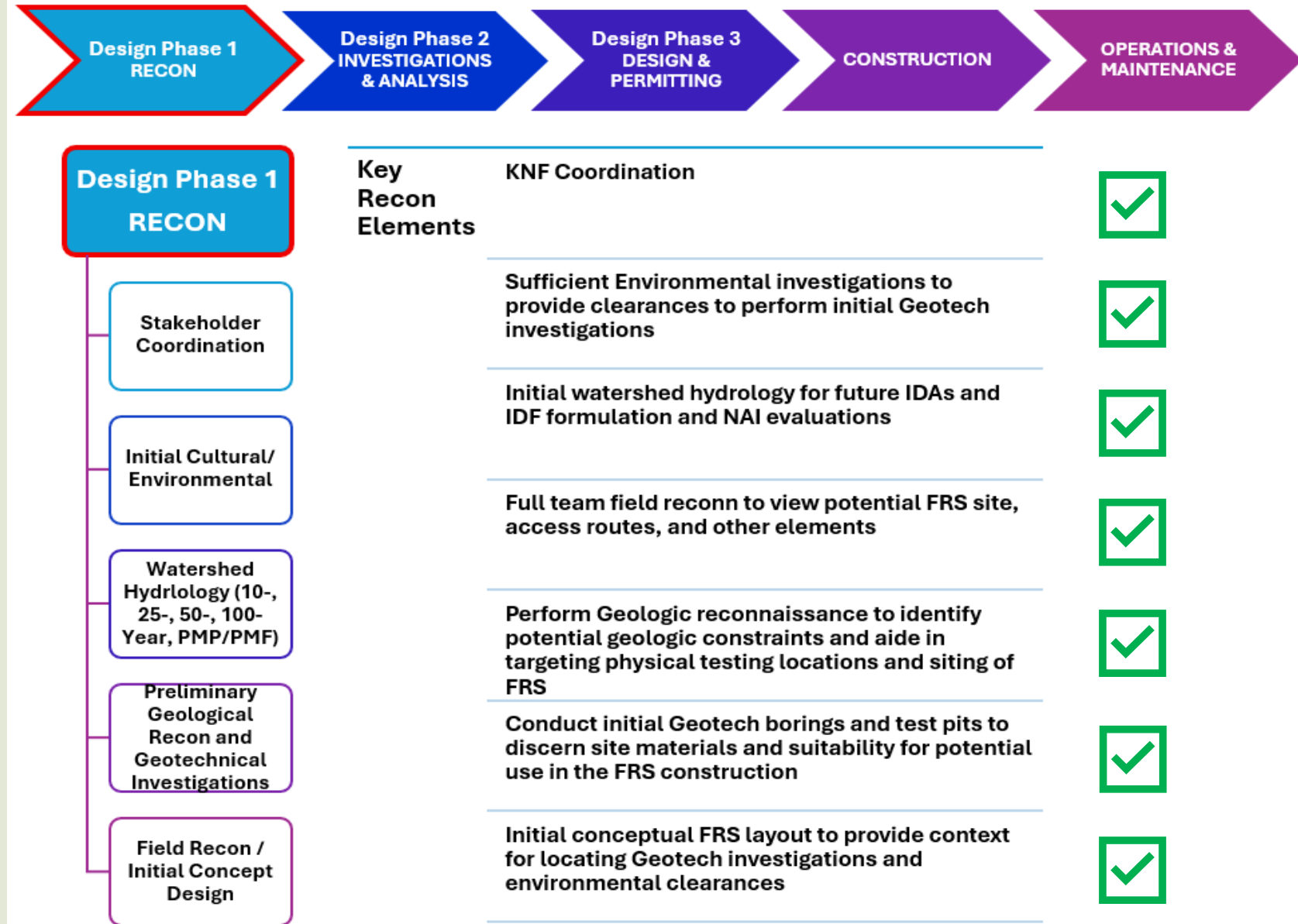
- **Utilizing remaining funds in the Engineering Contract to complete the in-town engineering including the three small basins adjacent to town**
- **Current rough estimate is that will leave about over \$350,000 in remaining SMART grant funds (including remaining Engineering Contract funding), which can contribute to, but will not fully cover reaching 60% engineering of the Flood Retarding Structure**
- **Additional funding will be needed to complete the FRS engineering if the BUILD grant is not approved**



DRAINAGE MASTER PLAN UPDATE

Project Status Update

- Tusayan Pine FRS design will follow a separate path and schedule from the rest of the DMP.
- Design Phase 1 is complete.
- Design Phase 2 will begin July 2026 with 9-month schedule





DRAINAGE MASTER PLAN UPDATE

Tusayan Pines FRS Next Steps

- Design Phase 2
 - Up to 60% Design
 - 9-month schedule
 - Starts in July 2026
 - Approx. \$800,000 Engineering Cost



Design Phase 2 INVESTIGATIONS & ANALYSIS

Stakeholder
Coordination

NEPA (Cultural/
Environmental/
Biological)

PMP/PMF Study

Preliminary
Engineering
Design Report

Preliminary
Design
Configuration
(60%)

Key
Investigations
& Analysis
Activities

Continued Coordinaton with KNF and Initial Discussions with ADWR

Full Impoundment NEPA

Evaluation of Published vs Site Specific Probable Maximum Precipitation Estimation

FRS Safety Level Risk Analyses

Engage with Contractor for Constructability and Cost Estimating

Preliminary
Engineering
Design Report
Components

Preliminary Spillway Configuration Study

Preliminary Failure Modes and Effects Evaluations

Preliminary Geotech

Sediment & Erosion Evaluation

Downstream Incremental Risk Analysis

IDF Evaluation

Freeboard Evaluation

Preliminary Design Configuration (60%)



QUESTIONS/COMMENTS