# **Scott Boettcher**

From: Rocky Howard <rhoward@montesano.us>

**Sent:** Friday, August 12, 2016 9:15 AM

 To:
 GSRO SOS 2012

 Subject:
 2017-2019 funding

 Attachments:
 20160812\_080236 (1).pdf

Please find application from City of Montesano



## 2017-19 Local Projects Recruitment Form

### Chehalis Basin Flood Relief

A. What are local flood relief projects? -- In general, local projects are those projects that provide predominantly localized and quantifiable benefit, are capable of being completed within the funding cycle, are supported by the jurisdiction within which the project is proposed, and are vetted and advanced through a public entity like a City, County, Conservation District, Agency, etc. Furthermore, local projects are envisioned as helping with flooding, not adverse to fish or habitat and (where possible) providers of multiple, quantifiable benefits.

## B. What kinds of local flood relief projects are likely to be logical funding candidates for 2017-19?

- Projects that complete an effort previously funded/started.
- Projects that advance improved emergency response.
- Projects that advance improved public infrastructure protection.
- Projects that advance improvements in local or community flood hazard reduction, including local flood proofing projects (e.g., elevations, buy-outs, foundation venting/opening, etc.).
- Projects that advance Conservation District initiated flood hazard reduction (e.g., farm pads, evacuation routes, bank erosion/bank stabilization, etc.)
- Projects that demonstrate innovation (e.g., thinking beyond traditional bank stabilization techniques in favor of
  natural system designs), partnerships, cost-sharing/leveraging resources, multiple benefits, and proactive vetting
  with agencies and tribes.
- Projects typically not in excess of \$3M for the stage/phase being funded.

### C. Are there projects that would not be good candidates?

- Projects that seek to utilize State Capitol Budget dollars for uses not typically allowed (e.g., maintenance and repair work, cost-sharing under select circumstances, etc.).
- Projects likely to increase potential for flood damage upstream or downstream.
- Projects with unmitigable adverse environmental impacts or significant uncertainty regarding potential environmental impacts.
- Projects not sponsored by a public entity.

### Instructions:

- a. Please submit local flood relief project requests (via this form) to Scott Boettcher (<u>scottb@sbgh-partners.com</u>) <u>no later than 5:00 p.m., Friday, August 12, 2016</u>.
- b. Please submit one request form for each project proposed, even those past projects previously or partially funded.
- c. Note: Parts III and IV below [marked by "(\*\*)"] will be scored as part of the Flood Authority Projects Committee's review and evaluation. Part I and II will not be scored.



	Part I				
	General				
1.	Date:	August 10, 2016			
2.	Project Name:	West McBryde Culvert Replacement			
3.	<b>Project Location</b> Please identify the location of the project as precisely as possible, including providing decimal degree latitude/longitude coordinates.	46°59'16.27"N 123°36'23.40"W			
4.	<b>Project Contact</b> Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	Rocky Howard <u>rhoward@montesano.us</u> (360) 590-1833			
5.	Lead Organization Please identify the lead organization, agency, entity, etc. responsible for this project. Please identify key partners responsible for assisting in the delivery or implementation of the project.	City of Montesano Gibbs and Olsen, Consultants			

	Part II  Description, Timing and Cost		
6.		Provide all labor, materials and equipment for replacing a culvert, including road reconstruction, water main improvements and paving.	
7.	<b>Project Timeline</b> Please describe the overall timeline for completion of the project as well any interim stages or phases.	The replacement project can be accomplished within 90 day inside of HPA fish windows. No phasing will be necessary within the project timelines	
8.	Project Cost and Funding What is the cost of this project? What are the on-going maintenance and operation requirements and costs? Is it clear who will be responsible for covering on-going maintenance and operation costs?	Estimates range from \$100,000 to \$135,000. City of Montesano will fully share in all maintenance and operational cost post construction.	
9.	<b>Other Funding</b> Please explain the extent to which other funding sources or funding partners are available.	None	



	Part III (**)				
10	Completion and Doability by June 30, 2019				
10.	Project Completion Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain.	Funding requested will complete project.			
11.	Project Doable Can this project or the stage/phase for which funding is sought be completed by June 30, 2019? Please describe any circumstances with potential to impact the project's doability or timeline (e.g., permitting or regulatory unknowns, lack of availability of other cost-share funding resources, etc.). Please describe any advance coordination or vetting with agencies, tribes, other entities, etc. and the outcomes of that effort.	The project described can be completed in 2017. Engineering, project documentation, construction documents have been produced and financially acquired. HPA permits through Department of Wildlife have been approved and are in an inactive status until funding is approved. Our City Council has approved the project, waterlines have been moved to facilitate the progress of the project. Temporary work easements will be necessary. The city anticipates no cost to this phase. No new ROW will be necessary to accomplish the project.			
12.	<b>Project Impacts</b> Please identify how any project impacts will be mitigated, funded and if that mitigation will be accomplished by June 30, 2019?	We see no environmental impacts requiring mitigation throughout the project			

	Part IV (**) Benefits Stated and Quantified		
13.	Emergency Response Benefits Please describe (and quantify) how this project enhances emergency response in a flood emergency (e.g., does it keep critical access roads and transportation facilities open and functional, does it enable easy movement of cattle, equipment and farm chemicals out of harm's way, etc.).	The enhanced culvert ensures local travel and emergence response in the local community which is surrounded by three culverts within 900 feet. One of these culverts historically floods at any significant event and is a deep underground installation requiring considerable funds to update. Our current project allows local and emergency traffic to access local neighborhoods should a catastrophic event occurs.	
14.	Essential Infrastructure Protection Benefits Please describe (and quantify) how this project protects essential infrastructure and the risks or consequences of not acting this funding cycle.	Older undersized culverts installed in major drainage ways always have the risk of damaging property and the City's infrastructure. Utilities that would be affected include water, sewer and telecommunications.	
15.	Public Health, Safety and Welfare Benefits Please describe (and quantify) how this project protects public health, safety and welfare.	Providing updated culverts will protect downstream residences from water and debris damage should waters surge charge as it has in recent years. Upgrade culvert size	



		from 18" to 60" complying with HPA requirements for fish passage creates an environmental benefits.
16.	Residential, Commercial and/or Agricultural Protection Benefits Please describe (and quantify) how this project protects residential, commercial and/or agricultural interests and communities and the benefits of acting (or consequences of not acting) this funding cycle. Consider factors like number of structures at risk, number of people at risk, historic frequency of flood damage, magnitude of benefit to be gained for the cost, etc.).	Replacement project ensures that storm events do not degrade older culvert protecting personal property, water supply, sewer transmission lines. Assures emergency vehicle routes into the immediate neighborhood when roadways to the southwest flood due to poor underground conveyance systems at location noted on mapping.
17.	Other Project Impacts Please explain how this project impacts or is potentially impacted by another project.	We see no present or future impacts
18.	Anything Else Please feel free to offer any additional information (e.g., photos, maps, video, drawings, etc.) that would help to better understand the scope, timing and benefits of this project.	Please see scanned information packet.



# Appendix A

Process/Schedule			
(current as of 7-22-2017)			
July 21, 2016 (FA In-Person Mtg.)	<ul> <li>Post and distribute local projects recruitment request on 7/22/2016 following Flood Authority review/discussion at their 7/21/2016 meeting.</li> <li>Allow three weeks for project proposals/submittals (i.e., due no later than 5:00 p.m., Friday, August 12, 2016).</li> </ul>		
August 18, 2016 (FA Conf. Call Mtg.)	<ul> <li>Receive proposals/submittals.</li> <li>Update Flood Authority at their 8/18/2016 meeting on number received, type of projects received, distribution, etc.</li> </ul>		
September 15, 2016 (FA In-Person Mtg.)	Update Flood Authority at their 9/15/2016 meeting on status of Projects Committee's effort to review, rank, discuss with Tribes, discuss with agencies, preliminarily sort and rank, etc.		
October 20, 2016 (FA In-Person Mtg.)	Review/discuss DRAFT ranked and prioritized list with Flood Authority at their 10/20/2016 meeting.		
November 17, 2016 (FA Conf. Call Mtg.)	Seek Flood Authority approval of FINAL ranked and prioritized list at their 11/17/2016     Flood Authority meeting.		



Google earth

feet 1000 meters 300

4

### **Culvert Design Summary**

The stream is currently rated type N, no fish. However, there is some potential for future fish passage through this culvert if a downstream blockage is removed. Therefore, WAC 220-110-70 requires design for fish passage.

The stream is less than 10' wide and has a slope less than 4%. Therefore, the no-slope design option can be considered.

No Slope Design Option (Chapter 2 – Design of Road Culverts for Fish Passage)

Channel Bank Full Width (BFW) = 3.5' (Estimated based on field measurements and observations) BFW equation for 35 acres (3.43'). Therefore estimated BFW is likely reasonable.

Minimum Culvert Size = BFW x 1.25 = 52.5" (Use 60" based on availability of HDPE sizes)

Stream Width in Culvert 40% Upstream Countersink = 59" Wide 27% Downstream Countersink = 53" Wide

Flow (HydroCAD v9.10)
2-Year Event Pre = 2.8 cfs, 2-Year Post = 3.69 cfs
100-Year Event Pre = 19.32 cfs, 100 Year Post = 21.24 cfs

100-Year Post Hydraulics 56" (avg) Wide Channel. n=0.040, bed slope = 1.7% 1.13' Flow depth and 4.0 fps velocity > 1' head room for debris at 100 year event flow



My Dashboard Inspection

Application

eService

My Account

Hello, Rocky

Go to Parent Submission

Go to Child Submission

Email History

Print Receipt

Open Applications

Start a New Application Apply new application

My Favorite Applications My favorite applications list

**Edit Pending Applications** Edit unfinished application

Back to Search

K Application > Submitted Applications > Track My Submitted Aops

HPA Issued

(Inactive)

Attachment

ů

(1676) Standard Hydraulic Project

Submitted by Rocky Howard (City of Montesano)

Payment

@ On 9/22/2014 3:07:52 PM ( Remaining: 32 days )

Address: 112 N Main St, Montesano Project: W. McBryde Culvert Replacement

Issued Letters/Permits

Total Forms; 1

Required Documents: 1 ( Non-Review: 0 )

Post Permit Requirements

Total Amount: \$150.00 ( Due: \$0.00 ) 🚮 Inspections: 2 ( Ongoing: 1 )

Application type: Standard Assigned Habitat Biologist:

Appeals

Submitted Applications

Track My Submitted Apps Monitor my submitted applications

My Issued Permits View My Issued Permits

Correspondence Msg Monitor correspondence Msg

Link Paper Submission Link Paper Submission

Here is the list of issued letters and permits for this application. **Issued Permits** 

Application

Inspections

1 - 1 of 1 item(s)

Current Application Permit Issued View Applicant Information Permit Dates 🧟 Rocky L Howard Issued Date: 10/14/2014 1676 -Ž Inactive [112 N Main St , Montesano , WA 98563-3707 Project End Date: 09/30/2015 Standard Hydraulic

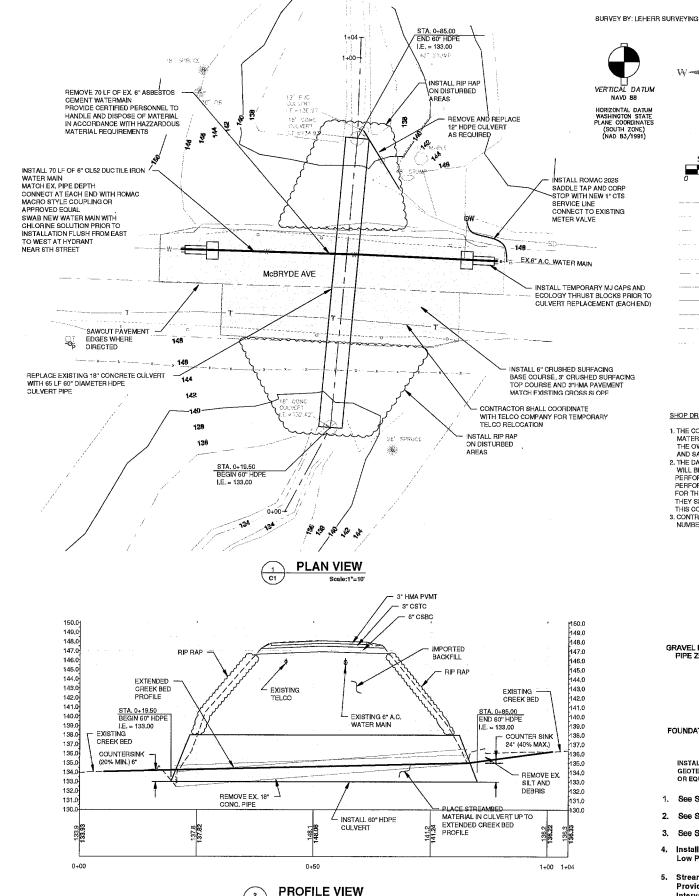
Correspondence

**Issued Letters** 

No items found. Please try again.

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+ Last modified Time: 2016-07-07 02:58 PM



Scale:1"=10' HORZ, 1"=5' VERT,



WHEA.

SCALE: 1"=10 FEE1

LEGEND

POWER POLE

CONIFER TREE

TREE STUMP

TOP SLOPE

TOE SLOPE

TOE CREEK

TOE ROCK WALL

GRADE BREAK

EDGE PAVEMENT

WATER LOCATE

ROAD CENTERLINE

CULVERT

DECIDUOUS TREE

PLASTIC BOLLARD

TELEPHONE PEDESTAL

### SHOP DRAWINGS/SUBBMITTALS/SAMPLES

- THE CONTRACTOR SHALL SUBMIT FOUR COPIES OF SUBMITTALS FOR ALL
  MATERIALS UTILIZED ON THIS PROJECT, THE CONTRACTOR SHALL OBTAIN
  THE OWNER'S WRITTEN APPROVAL OF THE SHOP DAWNINGS, SUBMITTALS
  AND SAMUES DESCRIBED DROGSEDING WITH THE ARBUING A BROWN.

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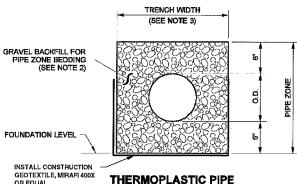
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- AND SAMPLES BEFORE PROCEEDING WITH THE APPLICABLE WORK.

  2. THE DATA SHOWN ON THE SHOP DRAWINGS AND TECHNICAL INFORMATION WILL BE COMPLETE WITH RESPECT TO COLANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE AND DESIGN CRITERIA. MATERIALS AND SIMILAR DATA. SPECIFIED PERFORMANCE AND DESIGN CRITERIA SHALL MEET THE MINIMUM REQUIRMENTS FOR THE INTENDED USE. WHERE STANDARD INFORMATION SHEETS AR SUBMITTED, THEY SHALL BE CLEARLY MARKED TO INDICATE FEATURES TO BE FURNISHED UNDER THIS CONTRACT.
- 3. CONTRACTOR SHALL MAKE CORRECTIONS AS REQUIRED AND SHALL RETURN THE REQUIRED NUMBER OF CORRECTED COPIES OF SUBMITTALS FOR REVIEW AND APPROVAL



- 1. See Standard Specifications Section 7-08.3(3) for Pipe Zone Backfill.
- 2. See Standard Specifications Section 9-03.12(3) for Gravel Backfill for Pipe Zone Bedding.
- See Standard Specifications Section 2-09.4 for Measurement of Trench Width.
- Install 3' Wide Water Stops in Bedding at 15' Spacing, Water Stop Material Shall be Low Permeability Imported or Native.
- Stream Bed Material Shall Be in Accordance with Section 9-03.11 (1)
  Provide 2' wide x full bed depth course material Rock Bands (D100/D85) at 15'
  Intervals. Install Rock Bands and Stream Bed Material by tremmie conveyor or
  other approved method(s). Compact to firm unyleiding under foot.

PIPE ZONE BEDDING AND BACKFILL STANDARD PLAN B-55,20-00

#### GENERAL NOTES

- 1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS HEREIN AND THE MOST RECENT COPY OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (REFERRED TO AS THE "STANDARD SPECIFICATIONS") AND WSDOT STANDARD PLANS (REFERRED TO AS FANDARD PLANS."). STANDARD PLANS (REFERRED TO AS FROM http://www.wsdot.wa.gov/Publications/Manuals/M41-do.htm
- 2. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY AT LEAST THREE BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD. PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS MUST BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL PLANS ARE IN PLACE.
- 4. ALL VERTICAL AND/OR HORIZONTAL ALIGNMENT, SHALL BE PROVIDED BY THE CONTRACTOR AND STAKED BY A LICENSED SURVEYOR CAPABLE OF PERFORMING SUCH WORK
- CALL THE UTILITIES UNDERGROUND LOCATION CENTER A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
- 6. THE CONTRACTOR SHALL COMPLY WITH ALL OTHER PERMITS AND REQUIREMENTS OF THE CITY AND/OR OTHER GOVERNING AUTHORITIES OR AGENCIES.
- 7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN A COPY OF THE APPROVED CONSTRUCTION PLANS AND PERMITS ON-SITE AT ALL TIMES.
- 8. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER AND THE CITY PUBLIC WORKS DIRECTOR PRIOR TO IMPLEMENTATION.
- 9. THE CONTRACTOR SHALL NOTIFY THE CITY FIVE (5) BUSINESS DAYS PRIOR TO A UTILITY SHUTDOWN. A CITY REPRESENTATIVE MUST BE PRESENT FOR ANY UTILITY SHUTDOWN. CONTRACTOR SHALL EXPOSE EXISTING UTILITIES FOR "FIELD VERIFICATION" OF UNDERGROUND CONDITIONS AND CONNECTION POINTS PRIOR TO COMMENCING WORK. FIELD VERIFICATION SHALL NOT BE CONDUCTED WITHOUT AUTHORIZED CITY PERSONNEL. ON SITE. CUSTOMERS INVOLVED WITH OR AFFECTED BY SHUTDOWNS WILL BE NOTIFIED BY THE CITY AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE. SHUTDOWNS WILL NOT BE PERMITTED ON FRIDAYS, WEEKENDS, OR HOLIDAYS WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
- 10. PRIOR TO BACKFILL, ALL BURIED PIPE AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY PIPE OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION SHALL BE RE-EXCAVATED BY THE CONTRACTOR FOR INSPECTION AT NO COST TO THE CITY. THE CONTRACTOR SHALL RETAIN RESPONSIBILITY TO REPAIR ALL DEFICIENCIES AND FAILURES REVEALED DURING ALL REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY.
- 11. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXCAVATED MATERIAL AND DEBRIS AT A CONTRACTOR PROVIDED DISPOSAL SITE.
- 12. THE CONTRACTOR SHALL COMPACT ALL FILL AND BACKFILL TO A MINIMUM IN PLACE DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. THE CITY SHALL PROVIDE COMPACTION TESTING SERVICES. CONTRACTOR SHALL ACCOMMODATE COMPACTION TESTING IN WORK SCHEDULING.
- 13.CONTRACTOR SHALL PROVIDE DEWATERING AND BYPASS PUMPING IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND PERMITS AS REQUIRED TO COMPLETE THE WORK.

#### EROSION CONTROL NOTES

- DURING THE PERIOD OCTOBER 1 THRU APRIL 30. ALL DISTURBED SOIL SURFACES SHALL BE STABILIZED BY A SUITABLE APPLICATION OF "BEST MANAGEMENT PRACTICES". ALL CONVEYANCE CHANNELS, BOTH TEMPORARY AND PERMANENT SHALL BE STABILIZED TO PREVENT EROSION OF THE CHANNEL DEWATERING DEVICES SHALL DISCHARGE INTO A SEDIMENT TRAP OR SEDIMENT POND.
- 2. CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG BOOK AND A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD. THE CONTRACTOR SHALL MAINTAIN A 24-HOUR CONTACT.
- THE CONTRACTOR SHALL TAKE ALL ACTIONS NECESSARY TO PREVENT EROSION, AND CONTROL SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
- CONTRACTOR SHALL SUBMIT AN EROSION CONTROL AND SPILL PREVENTION PLAN TO THE CITY FOR APPROVAL 1-WEEK PRIOR TO CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE IN-PLACE AND IN WORKING CONDITION PRIOR TO DISTURBING AND EXPOSING ANY SOIL SURFACES IN AND AROUND THE WORK.
- 6. ALL EROSION PREVENTION AND CONTROL BMP'S SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO INSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ANY SEDIMENT LEAVING THE SITE OR DISCHARGING TO A SENSITIVE AREA SHALL BE STOPPED AND CONTROLLED IMMEDIATELY. CONTAMINATED AREAS SHALL BE CLEANED AND RESTORED.
- NO EXPOSED, BARE SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS NUMBER FOR EMERGENCY MAINTENANCE AND REPAIR OF SITEBMP'S.
- 8. ALL TEMPORARY BMP'S SHALL BE REMOVED WITHIN 30DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT SHALL BE DEPOSITED AND STABILIZED ON SITE.
- DURING DRY WEATHER CONSTRUCTION PERIODS THE CONTRACTOR SHALL PROVIDE PROJECT-SPECIFIC DUST CONTROL MEASURES.
- 10. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES WHICH INVOLVE POTENTIAL CONTAMINANTS (OIL, SOLVENTS, HYDRAULIC FLUID, ETC.) MUST BE CONDUCTED IN A MANNER WHICH PREVENTS CONTAMINATION OF SOILS, SURFACE WATER AND GROUND WATER.
- 11.ALL EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES (BMP'S) SHALL BE INSPECTED DAILY AND DURING RAINFALL EVENTS. BMP'S SHALL BE MAINTAINED IN SATISFACTORY CONDITION UNTIL THE WORK IS COMPLETED, AND THE POTENTIAL FOR EROSION HAS PASSED.

Details and Profile Rep Montesano Culvert Montesano ₹ McBryde City Š Horizontal Scale: 1"=10 Vertical Scale: NA Datum: Survey Book: Project Phase Project Milestone: Revision Date: GIBBS & OLSON www.gibbs-olson.com Project Manager:MO Designed by: MO CAD by: DM Checked by: Approved by: 03520224 Drawing Number C1 Sheet Number:

1 of 1