

Community Development Block Grant - Mitigation Application



Texas General Land Office
Community Development and Revitalization

Texas General Land Office, P.O. Box 12873, Austin, Texas 78711-2873
1-844-893-8937 or 512-475-5000, cdr@glo.texas.gov

FLOOD CONTROL AND DRAINAGE IMPROVEMENTS

PROJECT TITLE

GUN BARREL CITY

APPLICANT NAME

HENDERSON
COUNTY

ETCOG
COG/Regional Planning Commission

Application for funding through:

2016 FLOODS STATE MITIGATION COMPETITION

PROJECT #1 – Harbor Point Rd. at Garden Lane (Wood-Wilks Gardens)

LOCATION: Latitude = 32.34192 Longitude = -96.14509

EXISTING CONDITION:

The west side drainage ditch of Harbor Point Rd. in the Garden Lane (Wood-Wilks Gardens residential area) intersection area overflows from stormwater runoff flowing down the Harbor Point Rd. drainage ditch from the north as well as flowing down Garden Lane from the west from Wood-Wilks Gardens residential area. This overflow also floods the Wood-Wilks Gardens residential area sanitary sewer system wet-well/lift-station at the northwest corner of Harbor Point Rd. and Garden Lane (north), causing that system to also overflow.

PROJECT DESCRIPTION:

1. Raise the existing Harbor Point bituminous 24' wide roadway an average of approx. 1.5' over an approx. 400 LF distance centered on the Garden Lane intersection and reconstruct the associated side earthen/grassed drainage ditches.
2. Replace the three existing Harbor Point Rd. cross-pipe drainage culverts of miscellaneous construction and no headwalls with:
 - a. North: 40 LF of 3'x3' concrete box culvert/headwalls with paved entry and rip-rapped discharge.
 - b. Center: 40 LF of two 3'x3' concrete box culverts/headwalls with concrete junction box entrance and rip-rapped discharge.
 - c. South: 40 LF of 3'x3' concrete box culvert/headwalls with paved entry and rip-rapped discharge.
3. Replace the three existing Harbor Point Rd. west-side driveway/intersection cross-pipe drainage culverts of miscellaneous construction and no headwalls with:
 - a. North: 16 LF of 3'x3' concrete box culvert/headwalls with paved entry and rip-rapped discharge.
 - b. Garden Lane: 30 LF of 3'x3' concrete box culverts/headwalls with paved entry and rip-rapped discharge.
 - c. South: 16 LF of 3'x3' concrete box culvert/headwalls with paved entry and rip-rapped discharge.
4. Replace / install associated traffic control signage and pavement markings

PROJECT #2 – Longleaf Street (south of 324 Longleaf Street)

LOCATION: Latitude = 32.32385 Longitude = -96.11076

EXISTING CONDITION:

The discharge (east) end of the existing stormwater drainage culvert under Longleaf Street is washing out. The existing culvert is twin 48" pipes with a paved-entry apron concrete headwall/wingwalls and a paved discharge apron concrete headwall/wingwalls. Earthen drainage ditches on the east side of the Longleaf roadway also flow into the discharge area behind the wingwalls. The combined stormwater flow from the culvert as well as the side drainage ditches has eroded the discharge area and the side drainage ditch roadway banks both north and south of the wingwalls and undermined the discharge apron area including the wingwalls.

PROJECT DESCRIPTION:

1. West side of Longleaf St. – construct water-flow energy-dissipating gabion-mattress lined drainage ditches approx. 100 LF north and south of the existing culvert concrete apron and wingwall entry area.
2. East side of Longleaf St.
 - a. Construct gabion reinforced embankment with flowable concrete backfill to restore eroded areas of north side drainage ditch.
 - b. Restore eroded areas behind wingwalls and under discharge apron with flowable concrete backfill.
 - c. Construct gabion-mattress lined drainage ditches approx. 100 LF north and 75 LF south of the existing culvert concrete apron and wingwall discharge area.
 - d. Extend discharge apron area with gabion-mattress and gabion-walled junction chamber to receive side ditch flows.
 - e. Construct discharge flow energy-dissipating concrete riprap at chamber discharge area.
3. Construct approx. 100 LF of metal-beam guard fence on each side of Longleaf St. between the edge of existing pavement and the existing culvert concrete headwalls.

PROJECT #3 – City Hall (1716 W. Main Street)

LOCATION: Latitude = 32.33090 Longitude = -96.14460

EXISTING CONDITION:

The stormwater runoff for the area north and northwest of City Hall drains via a 48" CMP into a non-paved apron area for an existing 60" RCP culvert with entry concrete headwall on the north side of West Main Street. The 60" culvert extends under West Main Street with discharge concrete headwall/apron on the south end. The City Hall parking area stormwater runoff sheet-flows into this same non-paved apron area. This area is eroding, and the adjacent City Hall parking lot concrete pavement is showing settlement cracking.

The discharge area of the 60" RCP culvert has no wingwalls and is showing bank and end-of-apron erosion due to the high discharge velocity.

PROJECT DESCRIPTION:

At the north end of the 60" RCP culvert:

1. Construct reinforced concrete junction box with drop inlet cap to connect the 48" CMP into the 60" culvert.
2. Saw-cut remove the existing cracked concrete parking lot pavement, fill any voids with concrete flowable backfill, and construct new pavement.
3. Backfill the non-paved and eroded apron area; construct paved swales and grade for parking lot and adjacent grassed areas to surface drain via paved swales to drop inlet.

At the south end of the 60" RCP culvert:

4. Construct gabion reinforced sidewall with concrete flowable backfill along the west side of the existing concrete paved apron.
5. Construct discharge flow energy-dissipating concrete blocks doweled into the existing concrete apron, and place energy-dissipating concrete riprap at the end of the apron.

PROJECT #4 – Southland Drive #1 (north of Finch Lane)

LOCATION: Latitude = 32.32632 Longitude = -96.15519

EXISTING CONDITION:

An existing stormwater drainage 15" RCP cross pipe, approx. 20' in skewed length with no headwalls or entry/discharge aprons, crosses under the bituminous paved roadway. This cross pipe is undersized and eroding the roadway embankment at both the entry and discharge ends.

PROJECT DESCRIPTION:

1. Replace the existing cross pipe with two 3'x3' reinforced concrete box culverts, each approx. 27 LF in skewed length.
2. On the east/entrance end, construct a reinforced concrete headwall approx. 12' long x 6' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete paved apron entrance.
3. On the west/discharge end, construct a reinforced concrete headwall approx. 12' long x 8' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete and embedded riprap-paved discharge apron.
4. Repair all eroded roadway embankment areas and reconstruct approx. 150 LF of bituminous roadway at 22' width between the headwall curbs and tapering back to the approx. 18' existing width at each end of the reconstruction area.
5. Reshape the entry and discharge ditches.
6. Install approx. 50 LF of metal-beam guard fence along each side of Southland Drive, centered on the culvert crossing and mounted to the headwall curb.

PROJECT #5 – Southland Drive #2 (south of Finch Lane)

LOCATION: Latitude = 32.32586 Longitude = -96.15528

EXISTING CONDITION:

An existing stormwater drainage 42" CPP cross pipe, approx. 22' in length with no headwalls or entry/discharge aprons, crosses under the bituminous paved roadway. This cross pipe is undersized and eroding the roadway embankment and roadway at both the entry and discharge ends.

PROJECT DESCRIPTION:

1. Replace the existing cross pipe with two 4'x4' reinforced concrete box culverts, each approx. 24 LF in length.
2. On the east/entrance end, construct a reinforced concrete headwall approx. 12' long x 8' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete paved and riprapped apron entrance.
3. On the west/discharge end, construct a reinforced concrete headwall approx. 12' long x 9' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete and embedded riprap-paved discharge apron.
4. Repair all eroded roadway embankment areas and reconstruct approx. 200 LF of bituminous roadway at 22' width between the headwall curbs and tapering back to the approx. 18' existing width at each end of the reconstruction area.
5. Reshape the entry and discharge ditches.
6. Install approx. 70 LF of metal-beam guard fence along each side of Southland Drive, centered on the culvert crossing and mounted to the headwall curb.

PROJECT #6 – Southland Drive #3 (130 Southland Drive)

LOCATION: Latitude = 32.32917 Longitude = -96.15515

EXISTING CONDITION:

An existing stormwater drainage 30" RCP cross pipe, approx. 22 LF in skewed length with no headwalls or entry/discharge aprons, crosses under the bituminous paved roadway. This cross pipe is undersized and eroding the roadway embankment at both the entry and discharge ends.

PROJECT DESCRIPTION:

1. Replace the existing cross pipe with two 3'x3' reinforced concrete box culverts, each approx. 27 LF in skewed length.
2. On the east/entrance end, construct a reinforced concrete headwall approx. 12' long x 6' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete paved and riprapped apron entrance.
3. On the west/discharge end, construct a reinforced concrete headwall approx. 12' long x 8' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete and embedded riprap-paved discharge apron.
4. Repair all eroded roadway embankment areas and reconstruct approx. 150 LF of bituminous roadway at 22' width between the headwall curbs and tapering back to the approx. 18' existing width at each end of the reconstruction area.
5. Reshape the entry and discharge ditches.
6. Install approx. 50 LF of metal-beam guard fence along each side of Southland Drive, centered on the culvert crossing and mounted to the headwall curb.

PROJECT #7 – 1006 Welch Lane

LOCATION: Latitude = 32.30663 Longitude = -96.12936

EXISTING CONDITION:

An existing stormwater drainage 24" CPP cross pipe, approx. 32 LF in skewed length with no headwalls or entry/discharge aprons, crosses from north to south under the bituminous paved roadway. This cross pipe is undersized with no discharge protection and eroding the roadway embankment at the discharge end endangering the edge of road pavement and exposing/undermining a previously buried/encased water line serving the adjacent residential area. Along the southerly edge of the roadway, existing earthen drainage swales also flow into the eroded discharge area.

PROJECT DESCRIPTION:

1. Replace the existing cross pipe with two 3'x3' reinforced concrete box culverts, each approx. 40 LF in skewed length.
2. On the north/entrance end, construct a reinforced concrete headwall approx. 12' long x 4' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete paved apron entrance.
3. On the south/discharge end, construct a reinforced concrete junction box/drop inlet cap with 8' long concrete wingwalls on each side to receive the twin 3'x3' box culverts as well as the surface drainage from the existing roadway swales.
4. Outlet the concrete junction box with a concrete and embedded riprap-paved flume for approx. 20 LF thru the natural drainage area.
5. During the above construction, temporarily support the existing exposed water line.
6. Backfill all undermined areas with flowable concrete backfill to the underside of the water line.
7. Properly bed the water line, backfill the eroded area, and grade to surface drain via paved swales to the drop inlet.
8. Reconstruct approx. 150 LF of bituminous roadway.
9. Install approx. 50 LF of metal-beam guard fence along the south side of Welch Lane, centered on the culvert crossing.

PROJECT #8 – Welch Lane (south of Pollyanna Drive)

LOCATION: Latitude = 32.30898 Longitude = -96.12820

EXISTING CONDITION:

An existing stormwater drainage 36" CPP cross pipe, approx. 35 LF in skewed length with entry headwall/paved apron crosses from west to east under the bituminous paved roadway and discharges with no headwall/apron into an open area approx. 4 LF from a natural drainage area 30" metal pipe outlet. This cross pipe is undersized with no discharge protection and eroding the roadway embankment at the discharge end as well as undermining the adjacent private property. Along the easterly edge of the roadway, existing earthen drainage swales also flow into the eroded discharge area.

PROJECT DESCRIPTION:

1. Replace the existing cross pipe with two 3'x3' reinforced concrete box culverts, each approx. 35 LF in skewed length.
2. On the west/entrance end, construct a reinforced concrete headwall approx. 12' long x 8' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete paved and riprapped apron entrance.
3. On the east/discharge end, construct a reinforced concrete headwall 12' long x 10' high and a 6'x6'x10' depth junction box/drop inlet cap with 8' long concrete wingwalls on each side to receive the twin 3'x3' box culverts as well as the surface drainage from the existing roadway swales.
4. Discharge the concrete junction box with a closed direct connection into the existing 30" metal pipe outlet.
5. Backfill all undermined areas with flowable concrete backfill to roadway subgrade elevation.
6. Backfill the eroded area, and grade to surface drain via paved swales, 50 LF in length, each way, into the drop inlet.
7. Reprofile and construct approx. 200 LF of bituminous roadway, centered on the cross pipe, at approx. 22' width.
8. Install approx. 50 LF of metal-beam guard fence along the east side of Welch Lane, centered on the culvert crossing.

PROJECT #9 – 191 Harbor Drive

LOCATION: Latitude = 32.33511 Longitude = -96.15418

EXISTING CONDITION:

An existing stormwater drainage 24" CPP cross pipe, approx. 26 LF in length with no headwalls or entry/discharge aprons, crosses under the bituminous paved roadway. This cross pipe flows from east to west, is undersized and eroding the roadway shoulder at the westerly discharge end. The roadway through this area for approx. 750 LF is deteriorated from inadequate stormwater drainage.

PROJECT DESCRIPTION:

1. Replace the existing cross pipe with two 3'x3' reinforced concrete box culverts, each approx. 30 LF in length.
2. On the east/entrance end, construct a reinforced concrete headwall approx. 12' long x 5' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete paved apron entrance.
3. On the west/discharge end, construct a reinforced concrete headwall approx. 12' long x 8' high including a 12" high curb above the top-of-road on a reinforced concrete footing, with a concrete and embedded riprap-paved discharge apron.
4. Reprofile and reconstruct approx. 750 LF of bituminous roadway at 22' width plus shoulders between the headwall curbs, with side drainage ditches, and tapering back to the existing width at each end of the reconstruction area, from approx. 375 LF north of the culvert crossing to 375 LF south of the culvert crossing.
5. Reshape the entry and discharge ditches.
6. Install approx. 50 LF of metal-beam guard fence along each side of Harbor Drive, centered on the culvert crossing.

PROJECT #10 – Harbor Point Road @ Lakeview Elementary School

LOCATION: Latitude = 32.33540 Longitude = -96.14512

EXISTING CONDITION:

The Elementary School student drop-off/pick-up access driveway storm water runoff is drained at its low point (south corner adjacent to Harbor Point Road) by an existing 12" CPP extending diagonally (skewed) in a southwest direction approx. 102 LF from the driveway south corner, across Harbor Point Road and into a drainage swale on the west side of Harbor Point Road. This cross pipe is undersized causing the access area to pond stormwater runoff, which negatively impacts student drop-off/pick-up access.

PROJECT DESCRIPTION:

1. Raise the existing Harbor Point bituminous 28' wide roadway (thru this area) an average of approx. 1.5' over an approx. 500 LF distance centered on the mid-point of the access area. Reconstruct the associated side earthen/grassed drainage ditches, including paved swales along the roadway adjacent to the school drop-off area.
2. Replace the cross-pipe drainage culvert with two 3'x2' reinforced concrete box culverts, 102 LF in length, with entry and exit headwall structures. Add an additional cross-pipe drainage culvert of same construction approx. 150' to the north.
3. Reconstruct/upsue the three-existing east-side Elementary School driveway/intersection cross-pipe drainage culverts and one west-side gravel driveway cross-pipe.
4. Replace / install associated traffic control signage and pavement markings

CDBG-MIT BUDGET SUMMARY
FLOOD AND DRAINAGE IMPROVEMENTS

ACTIVITY	TOTAL FUNDS
ADMINISTRATION	\$365,041.37
ENGINEERING	\$590,350.00
SPECIAL GEO-TECH ENG. SVCS.	\$37,000.00
CONSTRUCTION	<u>\$3,935,666.70</u>
TOTAL PROJECT BUDGET	\$4,928,058.07
MATCH FUNDS REQUIRED	\$49,280.58



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:		City of Gun Barrel City				
Site/Activity Title:		Project #1 - Harbor Point Rd. at Garden Lane (Wood-Wilks Gardens)				
Eligible Activity:		Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total	
Mobilization @ 7%	\$ 36,491.20	1	\$ 36,491.20	\$ -	\$ 36,491.20	
0100 - Prepare ROW / Station	\$ 2,300.00	4	\$ 9,200.00	\$ -	\$ 9,200.00	
0104 - Removals, Other / SY	\$ 180.00	40	\$ 7,200.00	\$ -	\$ 7,200.00	
0105 - Exist Pavm't Remov/ SY	\$ 3.45	1422	\$ 4,905.90	\$ -	\$ 4,905.90	
0110 - Excav. / CY	\$ 34.00	800	\$ 27,200.00	\$ -	\$ 27,200.00	
0132 - Embankment / CY	\$ 11.50	533	\$ 6,129.50	\$ -	\$ 6,129.50	
0164 - Seeding / SY	\$ 1.15	1777	\$ 2,043.55	\$ -	\$ 2,043.55	
0169 - Soil Retention Blanket / SY	\$ 2.00	1777	\$ 3,554.00	\$ -	\$ 3,554.00	
0260 - 8" Lime Stabilization/ SY	\$ 3.45	1701	\$ 5,868.45	\$ -	\$ 5,868.45	
0351 - 6" Bituminous Pav't / SY	\$ 58.00	1612	\$ 93,496.00	\$ -	\$ 93,496.00	
0400 - Struct. Excav. / CY	\$ 11.50	1554	\$ 17,871.00	\$ -	\$ 17,871.00	
0420 - Class A Conc Flume / LS	\$ 500.00	11	\$ 5,500.00	\$ -	\$ 5,500.00	
0420 - Concrete HW - 5' Ht./ LS	\$ 5,745.00	6	\$ 34,470.00	\$ -	\$ 34,470.00	
0420 - Concrete HW - 7' Ht./ LS	\$ 8,300.00	5	\$ 41,500.00	\$ -	\$ 41,500.00	
0459 - Gabion Mat - 12" / SY	\$ 103.50	667	\$ 69,034.50	\$ -	\$ 69,034.50	
0462 - 3'x3' RC Box Culv / LF	\$ 400.00	222	\$ 88,800.00	\$ -	\$ 88,800.00	
0465 - 6'x6' RC Jnct Box-5' / LS	\$ 43,125.00	1	\$ 43,125.00	\$ -	\$ 43,125.00	
0506 - Rock Filter Dams - Install and Remove / LF	\$ 80.50	90	\$ 7,245.00	\$ -	\$ 7,245.00	
0506 - Sed. Control Fence - Install and Remove/ LF	\$ 4.20	800	\$ 3,360.00	\$ -	\$ 3,360.00	
0510 - Port Traffic Sig / Month	\$ 5,000.00	6	\$ 30,000.00	\$ -	\$ 30,000.00	
0512 - Port. Curbs / LF	\$ 46.00	400	\$ 18,400.00	\$ -	\$ 18,400.00	
0666 - Pav't Markings / LF	\$ 3.00	800	\$ 2,400.00	\$ -	\$ 2,400.00	
TOTAL	\$ 102,403.45		\$ 557,794.10	\$ -	\$ 557,794.10	

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

Annual City O&M costs estimated to be \$200 for debris removal

2. Identify and explain any special engineering activities.

Geotechnical investigation for subsurface support estimated to be \$2,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:	City of Gun Barrel City					
Site/Activity Title:	Project #2 - Longleaf Street (south of 324 Longleaf Street)					
Eligible Activity:	Flood Control and Drainage Improvements					
Materials/Facilities/Services	\$/Unit	Unit	Quantity	Construction	Acquisition	Total
Mobilization @ 7%	\$ 28,270.66		1	\$ 28,270.66	\$ -	\$ 28,270.66
0100 - Prepare ROW / Station	\$ 2,300.00		2	\$ 4,600.00	\$ -	\$ 4,600.00
0105 - Removals / LS	\$ 1,000.00		1	\$ 1,000.00	\$ -	\$ 1,000.00
0110 - Excavation / CY	\$ 34.00		1477	\$ 50,218.00	\$ -	\$ 50,218.00
0132 - Embankment / CY	\$ 11.50		1343	\$ 15,444.50	\$ -	\$ 15,444.50
0160 - T-Soil-Seed-Blnkt / LS	\$ 4,000.00		1	\$ 4,000.00	\$ -	\$ 4,000.00
0260 - 8" Lime Stabiliz / LS	\$ 1,000.00		1	\$ 1,000.00	\$ -	\$ 1,000.00
0351 - 6" Bitum Pav't / SY	\$ 58.00		200	\$ 11,600.00	\$ -	\$ 11,600.00
0401 - Pressure FlowFill / CY	\$ 500.00		31	\$ 15,500.00	\$ -	\$ 15,500.00
0432 - Stone Aggreg BkFill / CY	\$ 489.00		130	\$ 63,570.00	\$ -	\$ 63,570.00
0432 - 24" Grout RipRap / CY	\$ 431.00		15	\$ 6,465.00	\$ -	\$ 6,465.00
0432 - 8" Conc RipRap / CY	\$ 402.50		4	\$ 1,610.00	\$ -	\$ 1,610.00
0459 - Gabion Mat - 9" / SY	\$ 92.00		400	\$ 36,800.00	\$ -	\$ 36,800.00
0459 - Gab Bskt - 5'x3'x3' / CY	\$ 500.00		284	\$ 142,000.00	\$ -	\$ 142,000.00
0506 - Rk Filter Dam - LF	\$ 80.50		78	\$ 6,279.00	\$ -	\$ 6,279.00
0506 - Ero Fen -Inst/Remo / LF	\$ 4.20		400	\$ 1,680.00	\$ -	\$ 1,680.00
0510 - Port Traff Sig / Month	\$ 5,000.00		3	\$ 15,000.00	\$ -	\$ 15,000.00
0512 - Portable Curbs / LF	\$ 46.00		200	\$ 9,200.00		\$ 9,200.00
0540 - Mtl Bm Guard Rail / LF	\$ 80.50		200	\$ 16,100.00		\$ 16,100.00
0666 - Pav't Mkg's / LF	\$ 3.00		600	\$ 1,800.00		\$ 1,800.00
TOTAL	\$ 44,302.86			\$ 432,137.16	\$ -	\$ 432,137.16

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

Annual City O&M costs estimated to be \$200 for debris removal

2. Identify and explain any special engineering activities.

Geotechnical investigation for coreborings estimated to be \$6,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Jason C. Mundo

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:		City of Gun Barrel City				
Site/Activity Title:		Project #3 - City Hall (1716 W. Main St.)				
Eligible Activity:		Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Unit	Quantity	Construction	Acquisition	Total
Mobilization @ 7%	\$ 10,598.28		1	\$ 10,598.28	\$ -	\$ 10,598.28
0100 - Prepare ROW / Station	\$ 2,300.00		2	\$ 4,600.00	\$ -	\$ 4,600.00
0104 - Conc Pvg Removal / SY	\$ 6.23		360	\$ 2,242.80		\$ 2,242.80
0110 - Excavation / CY	\$ 34.00		27	\$ 901.00	\$ -	\$ 901.00
0132 - Embankment / CY	\$ 11.50		207	\$ 2,380.50	\$ -	\$ 2,380.50
0160 - T-Soil-Seed-Blnkt / LS	\$ 2,000.00		1	\$ 2,000.00	\$ -	\$ 2,000.00
0247 - 6" Flex Base /SY	\$ 36.80		439	\$ 16,155.20		\$ 16,155.20
0260 - 8" Lime Stabiliz / SY	\$ 3.45		360	\$ 1,242.00	\$ -	\$ 1,242.00
0360 - Conc. Pav't./SY	\$ 86.25		360	\$ 31,050.00	\$ -	\$ 31,050.00
0401 - Pressure FlowFill / CY	\$ 500.00		1	\$ 500.00	\$ -	\$ 500.00
0420 - Conc. RipRap Block/ CY	\$ 459.00		4	\$ 1,836.00	\$ -	\$ 1,836.00
0420 - Conc. Flume / CY	\$ 500.00		10	\$ 5,000.00	\$ -	\$ 5,000.00
0459 - Gab Bskt - 5'x3'x3' / CY	\$ 500.00		30	\$ 15,000.00	\$ -	\$ 15,000.00
0464 - 48" RCP / LF	\$ 203.55		10	\$ 2,035.50		\$ 2,035.50
0465 - 6'x6' Junct.Box 5' /LS	\$ 43,125.00		1	\$ 43,125.00		\$ 43,125.00
0506 - Rk Filter Dam - LF	\$ 80.50		48	\$ 3,864.00	\$ -	\$ 3,864.00
0506 - Ero Fen -Inst/Remo / LF	\$ 4.20		60	\$ 252.00	\$ -	\$ 252.00
0512 - Portable Curbs / LF	\$ 46.00		260	\$ 11,960.00		\$ 11,960.00
0666 - Pav't Mkg's / LF	\$ 3.00		420	\$ 1,260.00		\$ 1,260.00
- Conc. Wheel Stops / Ea	\$ 300.00		20	\$ 6,000.00		\$ 6,000.00
TOTAL	\$ 60,797.76			\$ 162,002.28	\$ -	\$ 162,002.28

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

Annual City O&M costs estimated to be \$200 for debris removal

2. Identify and explain any special engineering activities.

Not Applicable at this location



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:	City of Gun Barrel City				
Site/Activity Title:	Project #4 - Southland Drive #1 (north of Finch Lane)				
Eligible Activity:	Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total
Mobilization @ 7%	\$ 13,214.89	1	\$ 13,214.89		\$ 13,214.89
0100 - Prepare ROW / Station	\$ 2,300.00	2	\$ 4,600.00	\$ -	\$ 4,600.00
0105 - Exist Pav't Remov / SY	\$ 3.45	367	\$ 1,266.15	\$ -	\$ 1,266.15
0110 - Excav. / CY	\$ 34.00	243	\$ 8,262.00	\$ -	\$ 8,262.00
0132 - Embankment / CY	\$ 11.50	89	\$ 1,023.50	\$ -	\$ 1,023.50
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	150	\$ 817.50	\$ -	\$ 817.50
0247 - 6" Flex base in place/SY	\$ 36.80	51	\$ 1,876.80		\$ 1,876.80
0260 - 8" Lime Stabilization/ SY	\$ 3.45	367	\$ 1,266.15	\$ -	\$ 1,266.15
0351 - 6" Bituminous Pav't / SY	\$ 58.00	367	\$ 21,286.00	\$ -	\$ 21,286.00
0420 - Class A Conc Flume / LS	\$ 500.00	1	\$ 500.00	\$ -	\$ 500.00
0432 - Stone Aggreg Bkfill / CY	\$ 489.00	12	\$ 5,868.00		\$ 5,868.00
0432 - 24" RipRap Grout / CY	\$ 431.00	3	\$ 1,293.00		\$ 1,293.00
0432 - 8" Conc. RipRap /CY	\$ 402.50	6	\$ 2,415.00		\$ 2,415.00
0459 - Gabion Mat - 12" / SY	\$ 103.50	300	\$ 31,050.00	\$ -	\$ 31,050.00
0459 - Gabion Bskt 3'x3'x5'/CY	\$ 500.00	34	\$ 17,000.00		\$ 17,000.00
0462 - 3'x3' RC Box Culv / LF	\$ 400.00	54	\$ 21,600.00	\$ -	\$ 21,600.00
0466 - 6' Headwall / LS	\$ 16,215.00	1	\$ 16,215.00		\$ 16,215.00
0466 - 6' Headwall / LS	\$ 16,215.00	1	\$ 16,215.00		\$ 16,215.00
0506 - Rock Filter Dams - Install and Remove / LF	\$ 80.50	40	\$ 3,220.00	\$ -	\$ 3,220.00
0506 - Sed. Control Fence - Install and Remove/ LF	\$ 4.20	300	\$ 1,260.00	\$ -	\$ 1,260.00
0510 - Port Traffic Sig / Month	\$ 5,000.00	3	\$ 15,000.00	\$ -	\$ 15,000.00
0512 - Port Curbs / LF	\$ 46.00	150	\$ 6,900.00		\$ 6,900.00
0540 - Mtl Bm Guard Rail / LF	\$ 80.50	100	\$ 8,050.00		\$ 8,050.00
0666 - Pav't Markings / LF	\$ 3.00	600	\$ 1,800.00	\$ -	\$ 1,800.00
TOTAL	\$ 56,137.74		\$ 201,998.99	\$ -	\$ 201,998.99

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

Annual City O&M costs estimated to be \$200 for debris removal

2. Identify and explain any special engineering activities.

Geotechnical investigation for subsurface coreborings estimated to be \$6,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:		City of Gun Barrel City				
Site/Activity Title:		Project #5 - Southland Drive #2 (south of Finch Lane)				
Eligible Activity:		Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total	
Mobilization @ 7%	\$ 17,672.05	1	\$ 17,672.05		\$ 17,672.05	
0100 - Prepare ROW / Station	\$ 2,300.00	2	\$ 4,600.00	\$ -	\$ 4,600.00	
0104 - Removals, Other / SY	\$ 180.00	10	\$ 1,800.00		\$ 1,800.00	
0105 - Exist Pavm't Remov / SY	\$ 3.45	489	\$ 1,687.05	\$ -	\$ 1,687.05	
0110 - Excav. / CY	\$ 34.00	363	\$ 12,342.00	\$ -	\$ 12,342.00	
0132 - Embankment / CY	\$ 11.50	134	\$ 1,541.00	\$ -	\$ 1,541.00	
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	200	\$ 1,090.00	\$ -	\$ 1,090.00	
0247 - 6" Flex base in place/SY	\$ 36.80	54	\$ 1,987.20		\$ 1,987.20	
0260 - 8" Lime Stabilization/ SY	\$ 3.45	489	\$ 1,687.05	\$ -	\$ 1,687.05	
0351 - 6" Bituminous Pav't / SY	\$ 58.00	489	\$ 28,362.00	\$ -	\$ 28,362.00	
0420 - Class A Conc Flume / LS	\$ 500.00	1	\$ 500.00	\$ -	\$ 500.00	
0432 - Stone Aggreg Bkfill / CY	\$ 489.00	18	\$ 8,802.00		\$ 8,802.00	
0432 - 24" RipRap Grout / CY	\$ 431.00	4	\$ 1,724.00		\$ 1,724.00	
0432 - 8" Conc. RipRap /CY	\$ 402.50	7	\$ 2,817.50		\$ 2,817.50	
0459 - Gabion Mat - 12" / SY	\$ 103.50	400	\$ 41,400.00	\$ -	\$ 41,400.00	
0459 - Gabion Bskt 3'x3'x5'/CY	\$ 500.00	50	\$ 25,000.00		\$ 25,000.00	
0462 - 4'x4' RC Box Culv / LF	\$ 575.00	48	\$ 27,600.00	\$ -	\$ 27,600.00	
0466 - 8' Headwall / LS	\$ 21,620.00	1	\$ 21,620.00		\$ 21,620.00	
0466 - 9' Headwall / LS	\$ 24,323.00	1	\$ 24,323.00		\$ 24,323.00	
0506 - Rk Filt Dam-Ins-Rem /LF	\$ 80.50	50	\$ 4,025.00	\$ -	\$ 4,025.00	
0506 - Sed Fence - Ins - Rem/LF	\$ 4.20	400	\$ 1,680.00	\$ -	\$ 1,680.00	
0510 - Port Traffic Sig / Month	\$ 5,000.00	3	\$ 15,000.00	\$ -	\$ 15,000.00	
0512 - Port Curbs / LF	\$ 46.00	200	\$ 9,200.00		\$ 9,200.00	
0540 - Mtl Bm Guard Rail / LF	\$ 80.50	140	\$ 11,270.00		\$ 11,270.00	
0666 - Pav't Markings / LF	\$ 3.00	800	\$ 2,400.00	\$ -	\$ 2,400.00	
TOTAL	\$ 74,462.90		\$ 270,129.85	\$ -	\$ 270,129.85	

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

Annual City O&M costs estimated to be \$200 for debris removal

2. Identify and explain any special engineering activities.

Geotechnical investigation for subsurface coreborings estimated to be \$6,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:	City of Gun Barrel City				
Site/Activity Title:	Project #6 - Southland Drive #3 (130 Southland Drive)				
Eligible Activity:	Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total
Mobilization @ 7%	\$ 13,719.24	1	\$ 13,719.24		\$ 13,719.24
0100 - Prepare ROW / Station	\$ 2,300.00	2	\$ 4,600.00	\$ -	\$ 4,600.00
0104 - Removals, Other / SY	\$ 180.00	10	\$ 1,800.00		\$ 1,800.00
0105 - Exist Pav't Remov / SY	\$ 3.45	367	\$ 1,266.15	\$ -	\$ 1,266.15
0110 - Excav. / CY	\$ 34.00	243	\$ 8,262.00	\$ -	\$ 8,262.00
0132 - Embankment / CY	\$ 11.50	89	\$ 1,023.50	\$ -	\$ 1,023.50
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	150	\$ 817.50	\$ -	\$ 817.50
0247 - 6" Flex base in place/SY	\$ 36.80	51	\$ 1,876.80		\$ 1,876.80
0260 - 8" Lime Stabilization/ SY	\$ 3.45	367	\$ 1,266.15	\$ -	\$ 1,266.15
0351 - 6" Bituminous Pav't / SY	\$ 58.00	367	\$ 21,286.00	\$ -	\$ 21,286.00
0420 - Class A Conc Flume / LS	\$ 500.00	1	\$ 500.00	\$ -	\$ 500.00
0432 - Stone Aggreg Bkfill / CY	\$ 489.00	12	\$ 5,868.00		\$ 5,868.00
0432 - 24" RipRap Grout / CY	\$ 431.00	3	\$ 1,293.00		\$ 1,293.00
0432 - 8" Conc. RipRap /CY	\$ 402.50	6	\$ 2,415.00		\$ 2,415.00
0459 - Gabion Mat - 12" / SY	\$ 103.50	300	\$ 31,050.00	\$ -	\$ 31,050.00
0459 - Gabion Bskt 3'x3'x5'/CY	\$ 500.00	34	\$ 17,000.00		\$ 17,000.00
0462 - 3'x3' RC Box Culv / LF	\$ 400.00	54	\$ 21,600.00	\$ -	\$ 21,600.00
0466 - 6' Headwall / LS	\$ 16,215.00	1	\$ 16,215.00		\$ 16,215.00
0466 - 8' Headwall / LS	\$ 21,620.00	1	\$ 21,620.00		\$ 21,620.00
0506 - Rk Fil Dams-Ins/Rem/LF	\$ 80.50	40	\$ 3,220.00	\$ -	\$ 3,220.00
0506 - Sed Fence-Ins/Rem/LF	\$ 4.20	300	\$ 1,260.00	\$ -	\$ 1,260.00
0510 - Port Traffic Sig / Month	\$ 5,000.00	3	\$ 15,000.00	\$ -	\$ 15,000.00
0512 - Port Curbs / LF	\$ 46.00	150	\$ 6,900.00		\$ 6,900.00
0540 - Mtl Bm Guard Rail / LF	\$ 80.50	100	\$ 8,050.00		\$ 8,050.00
0666 - Pav't Markings / LF	\$ 3.00	600	\$ 1,800.00	\$ -	\$ 1,800.00
TOTAL	\$ 62,227.09		\$ 209,708.34	\$ -	\$ 209,708.34

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

Annual City O&M costs estimated to be \$200 for debris removal

2. Identify and explain any special engineering activities.

Geotechnical investigation for subsurface coreborings estimated to be \$6,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:		City of Gun Barrel City				
Site/Activity Title:		Project #7 - 1006 Welch Lane				
Eligible Activity:		Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total	
Mobilization @ 7%	\$ 26,928.88	1	\$ 26,928.88		\$ 26,928.88	
Water Line Sup't/Bedding / LS	\$ 30,000.00	1	\$ 30,000.00		\$ 30,000.00	
0100 - Prepare ROW / Station	\$ 2,300.00	2	\$ 4,600.00	\$ -	\$ 4,600.00	
0104 - Removals, Other / SY	\$ 180.00	11	\$ 1,980.00		\$ 1,980.00	
0105 - Exist Pav'm't Remov / SY	\$ 3.45	489	\$ 1,687.05	\$ -	\$ 1,687.05	
0110 - Excav. / CY	\$ 34.00	602	\$ 20,468.00	\$ -	\$ 20,468.00	
0132 - Embankment / CY	\$ 11.50	403	\$ 4,634.50	\$ -	\$ 4,634.50	
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	145	\$ 790.25	\$ -	\$ 790.25	
0247 - 6" Flex base in place/SY	\$ 36.80	93	\$ 3,422.40		\$ 3,422.40	
0260 - 8" Lime Stabilization/ SY	\$ 3.45	367	\$ 1,266.15	\$ -	\$ 1,266.15	
0351 - 6" Bituminous Pav't / SY	\$ 58.00	367	\$ 21,286.00	\$ -	\$ 21,286.00	
0401 - Prerssure FloFill / CY	\$ 500.00	5	\$ 2,500.00		\$ 2,500.00	
0401 - Flow Fill / CY	\$ 230.00	50	\$ 11,500.00		\$ 11,500.00	
0420 - Class A Conc Flume / LS	\$ 500.00	5	\$ 2,500.00	\$ -	\$ 2,500.00	
0432 - Stone Aggreg Bkfill / CY	\$ 489.00	19	\$ 9,291.00		\$ 9,291.00	
0432 - 24" RipRap Grout / CY	\$ 431.00	3	\$ 1,293.00		\$ 1,293.00	
0459 - Gabion Mat - 12" / SY	\$ 103.50	200	\$ 20,700.00	\$ -	\$ 20,700.00	
0459 - Gabion Bskt 3'x3'x5'/CY	\$ 500.00	50	\$ 25,000.00		\$ 25,000.00	
0462 - 3'x3' RC Box Culv / LF	\$ 400.00	80	\$ 32,000.00	\$ -	\$ 32,000.00	
0465 - 6'x6' RC Jnct Box-10'/LS	\$ 86,250.00	1	\$ 86,250.00		\$ 86,250.00	
0466 - 4' Headwall / LS	\$ 10,810.00	1	\$ 10,810.00		\$ 10,810.00	
0466 - 10' Headwall / LS	\$ 27,025.00	1	\$ 27,025.00		\$ 27,025.00	
0466 - 5'Wingwall / LS	\$ 11,385.00	2	\$ 22,770.00		\$ 22,770.00	
0506 - Rk Filt Dam-Inst-Rem/LF	\$ 80.50	70	\$ 5,635.00	\$ -	\$ 5,635.00	
0506 - Sed Contr-Inst-Rem/LF	\$ 4.20	200	\$ 840.00	\$ -	\$ 840.00	
0510 - Port Traffic Sig / Month	\$ 5,000.00	4	\$ 20,000.00	\$ -	\$ 20,000.00	
0512 - Port Curbs / LF	\$ 46.00	150	\$ 6,900.00		\$ 6,900.00	
0540 - Mtl Bm Guard Rail / LF	\$ 80.50	100	\$ 8,050.00		\$ 8,050.00	
0666 - Pav't Markings / LF	\$ 3.00	500	\$ 1,500.00	\$ -	\$ 1,500.00	
TOTAL	\$ 203,399.23		\$ 411,627.23	\$ -	\$ 411,627.23	

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities. O&M = \$200

2. Identify and explain any special engineering activities. Geotechnical subsurface coreborings estimated to be \$6,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Jason C. Mundo

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:	City of Gun Barrel City				
Site/Activity Title:	Project #8 - Welch Lane (south of Pollyanna Drive)				
Eligible Activity:	Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total
Mobilization @ 7%	\$ 33,185.20	1	\$ 33,185.20		\$ 33,185.20
0100 - Prepare ROW / Station	\$ 2,300.00	2	\$ 4,600.00	\$ -	\$ 4,600.00
0104 - Removals, Other / SY	\$ 180.00	65	\$ 11,700.00		\$ 11,700.00
0105 - Exist Pavm't Remov / SY	\$ 3.45	578	\$ 1,994.10	\$ -	\$ 1,994.10
0110 - Excav. / CY	\$ 34.00	668	\$ 22,712.00	\$ -	\$ 22,712.00
0132 - Embankment / CY	\$ 11.50	446	\$ 5,129.00	\$ -	\$ 5,129.00
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	400	\$ 2,180.00	\$ -	\$ 2,180.00
0247 - 6" Flex base in place/SY	\$ 36.80	141	\$ 5,188.80		\$ 5,188.80
0260 - 8" Lime Stabilization/ SY	\$ 3.45	623	\$ 2,149.35	\$ -	\$ 2,149.35
0351 - 6" Bituminous Pav't / SY	\$ 58.00	623	\$ 36,134.00	\$ -	\$ 36,134.00
0401 - Prerssure FloFill / CY	\$ 500.00	20	\$ 10,000.00		\$ 10,000.00
0401 - Flow Fill / CY	\$ 230.00	50	\$ 11,500.00		\$ 11,500.00
0420 - Class A Conc Flume / LS	\$ 500.00	9	\$ 4,500.00	\$ -	\$ 4,500.00
0432 - Stone Aggreg Bkfill / CY	\$ 489.00	38	\$ 18,582.00		\$ 18,582.00
0459 - Gabion Mat - 12" / SY	\$ 103.50	400	\$ 41,400.00	\$ -	\$ 41,400.00
0459 - Gabion Bskt 3'x3'x5'/CY	\$ 500.00	67	\$ 33,500.00		\$ 33,500.00
0462 - 3'x3' RC Box Culv / LF	\$ 400.00	70	\$ 28,000.00	\$ -	\$ 28,000.00
0465 - 6'x6'RC Jnct Box-10'/LS	\$ 86,250.00	1	\$ 86,250.00		\$ 86,250.00
0465 - Spec JB Conect / LS	\$ 2,000.00	1	\$ 2,000.00		\$ 2,000.00
0466 - 10' Headwall / LS	\$ 27,025.00	2	\$ 54,050.00		\$ 54,050.00
0466 - 5' Wingwall / LS	\$ 11,385.00	4	\$ 45,540.00		\$ 45,540.00
0506 - Rk Filt Dam-Inst-Rem/LF	\$ 80.50	70	\$ 5,635.00	\$ -	\$ 5,635.00
0506 - Sed Contr-Inst-Rem/LF	\$ 4.20	400	\$ 1,680.00	\$ -	\$ 1,680.00
0510 - Port Traffic Sig / Month	\$ 5,000.00	4	\$ 20,000.00	\$ -	\$ 20,000.00
0512 - Port Curbs / LF	\$ 46.00	200	\$ 9,200.00		\$ 9,200.00
0540 - Mtl Bm Guard Rail / LF	\$ 80.50	100	\$ 8,050.00		\$ 8,050.00
0666 - Pav't Markings / LF	\$ 3.00	800	\$ 2,400.00	\$ -	\$ 2,400.00
TOTAL	\$ 170,414.55		\$ 507,259.45	\$ -	\$ 507,259.45

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities. O&M= \$200

2. Identify and explain any special engineering activities. Geotechnical subsurface coreborings estimated to cost \$3,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:		City of Gun Barrel City				
Site/Activity Title:		Project #9 - 191 Harbor Drive				
Eligible Activity:		Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total	
Mobilization @ 7%	\$ 43,899.33	1	\$ 43,899.33		\$ 43,899.33	
0100 - Prepare ROW / Station	\$ 2,300.00	8	\$ 18,400.00	\$ -	\$ 18,400.00	
0104 - Removals, Other / SY	\$ 180.00	12	\$ 2,160.00		\$ 2,160.00	
0105 - Exist Pavm't Remov / SY	\$ 3.45	2334	\$ 8,052.30	\$ -	\$ 8,052.30	
0110 - Excav. / CY	\$ 34.00	942	\$ 32,028.00	\$ -	\$ 32,028.00	
0132 - Embankment / CY	\$ 11.50	1525	\$ 17,537.50	\$ -	\$ 17,537.50	
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	1000	\$ 5,450.00	\$ -	\$ 5,450.00	
0247 - 6" Flex base in place/SY	\$ 36.80	109	\$ 4,011.20		\$ 4,011.20	
0260 - 8" Lime Stabilization/ SY	\$ 3.45	2334	\$ 8,052.30	\$ -	\$ 8,052.30	
0351 - 6" Bituminous Pav't / SY	\$ 29.00	2334	\$ 67,686.00	\$ -	\$ 67,686.00	
0420 - Class A Conc Flume / LS	\$ 500.00	18	\$ 9,000.00	\$ -	\$ 9,000.00	
0432 - Stone Aggreg Bkfill / CY	\$ 240.00	119	\$ 28,560.00		\$ 28,560.00	
0432 - 8" Conc. RipRap / CY	\$ 402.50	6	\$ 2,415.00		\$ 2,415.00	
0432 - 24" RFipRap Grout / CY	\$ 431.00	8	\$ 3,448.00		\$ 3,448.00	
0459 - Gabion Mat - 12" / SY	\$ 103.50	1500	\$ 155,250.00	\$ -	\$ 155,250.00	
0459 - Gabion Bskt 3'x3'x5'/CY	\$ 500.00	201	\$ 100,500.00		\$ 100,500.00	
0462 - 3'x3' RC Box Culv / LF	\$ 400.00	60	\$ 24,000.00	\$ -	\$ 24,000.00	
0466 - 5' Headwall / LS	\$ 13,513.00	1	\$ 13,513.00		\$ 13,513.00	
0466 - 8' Headwall / LS	\$ 21,620.00	1	\$ 21,620.00		\$ 21,620.00	
0466 - 5' Wingwall / LS	\$ 11,385.00	2	\$ 22,770.00		\$ 22,770.00	
0506 - Rk Filt Dam-Inst-Rem/LF	\$ 80.50	60	\$ 4,830.00	\$ -	\$ 4,830.00	
0506 - Sed Contr-Inst-Rem/LF	\$ 4.20	1500	\$ 6,300.00	\$ -	\$ 6,300.00	
0510 - Port Traffic Sig / Month	\$ 5,000.00	3	\$ 15,000.00	\$ -	\$ 15,000.00	
0512 - Port Curbs / LF	\$ 46.00	750	\$ 34,500.00		\$ 34,500.00	
0540 - Mtl Bm Guard Rail / LF	\$ 80.50	100	\$ 8,050.00		\$ 8,050.00	
0666 - Pav't Markings / LF	\$ 3.00	3000	\$ 9,000.00	\$ -	\$ 9,000.00	
TOTAL	\$ 100,812.18		\$ 666,032.63	\$ -	\$ 671,032.63	

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities. O&M = \$200

2. Identify and explain any special engineering activities. Geotechnical subsurface support sampling estimated to be \$2,000



Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:	City of Gun Barrel City				
Site/Activity Title:	Project #10 - Harbor Point Rd. @ Lakeview Elementary School				
Eligible Activity:	Flood Control and Drainage Improvements				
Materials/Facilities/Services	\$/Unit	Quantity	Construction	Acquisition	Total
Mobilization @ 7%	\$ 33,494.42		\$ 33,494.42		\$ 33,494.42
0100 - Prepare ROW / Station	\$ 2,300.00	5	\$ 11,500.00	\$ -	\$ 11,500.00
0104 - Removals, Other / SY	\$ 180.00	34	\$ 6,120.00		\$ 6,120.00
0105 - Exist Pav't Remov / SY	\$ 3.45	1778	\$ 6,134.10	\$ -	\$ 6,134.10
0110 - Excav. / CY	\$ 34.00	512	\$ 17,408.00	\$ -	\$ 17,408.00
0132 - Embankment / CY	\$ 11.50	834	\$ 9,591.00	\$ -	\$ 9,591.00
0164 - Seed-TpS-Blnkt / SY	\$ 5.45	667	\$ 3,635.15	\$ -	\$ 3,635.15
0247 - 6" Flex base in place/SY	\$ 36.80	343	\$ 12,622.40		\$ 12,622.40
0260 - 8" Lime Stabilization/ SY	\$ 3.45	2000	\$ 6,900.00	\$ -	\$ 6,900.00
0351 - 6" Bituminous Pav't / SY	\$ 29.00	3244	\$ 94,076.00	\$ -	\$ 94,076.00
0420 - Class A Conc Flume / LS	\$ 500.00	34	\$ 17,000.00	\$ -	\$ 17,000.00
0432 - 8" Conc. RipRap / CY	\$ 402.50	2	\$ 805.00		\$ 805.00
0459 - Gabion Mat - 12" / SY	\$ 103.50	700	\$ 72,450.00	\$ -	\$ 72,450.00
0462 - 3'x2' RC Box Culv / LF	\$ 520.00	258	\$ 134,160.00	\$ -	\$ 134,160.00
0467 - 3' S.E.T. / EA	\$ 4,945.00	6	\$ 29,670.00		\$ 29,670.00
0506 - Rk Filt Dam-Inst-Rem/LF	\$ 80.50	40	\$ 3,220.00	\$ -	\$ 3,220.00
0506 - Sed Contr-Inst-Rem/LF	\$ 4.20	1000	\$ 4,200.00	\$ -	\$ 4,200.00
0510 - Port Traffic Sig / Month	\$ 5,000.00	4	\$ 20,000.00	\$ -	\$ 20,000.00
0512 - Port Curbs / LF	\$ 46.00	500	\$ 23,000.00		\$ 23,000.00
0666 - Pav't Markings / LF	\$ 3.00	2000	\$ 6,000.00	\$ -	\$ 6,000.00
TOTAL	\$ 47,702.77		\$ 511,986.07	\$ -	\$ 511,986.07

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities. O&M = \$200

2. Identify and explain any special engineering activities. Not Applicable at this location



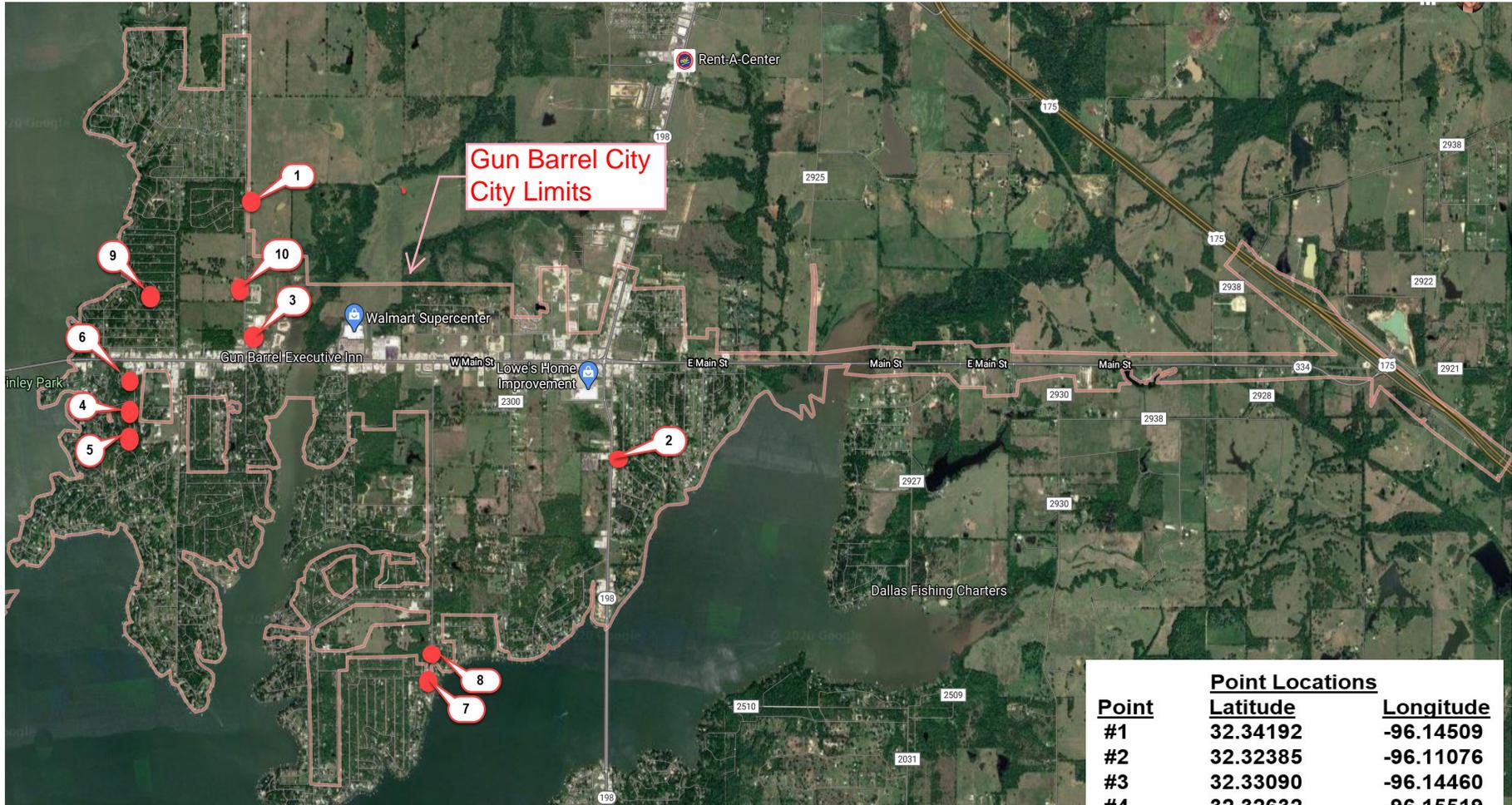
Seal

Date:	9/28/20
Phone Number:	214-642-5352

Signature of Registered Engineer/Architect
Responsible For Budget Justification:

Gun Barrel City

Google Maps



Point	Latitude	Longitude
#1	32.34192	-96.14509
#2	32.32385	-96.11076
#3	32.33090	-96.14460
#4	32.32632	-96.15519
#5	32.32586	-96.15528
#6	32.32917	-96.15515
#7	32.30663	-96.12936
#8	32.30898	-96.12820
#9	32.33511	-96.15418
#10	32.33540	-96.14512



Mundo and Associates, Inc.
 Engineering • City Planning
 Economic Development
 mundoandassociates.com

GUN BARREL CITY GLO / CDBG MIT APPLICATION PROJECT GENERAL LOCATION MAP