PUBLIC WORKS COUNCIL

FEBRUARY 21, 2019
1. Welcome and Introductions

2. Meeting Summary. The November 29, 2018 meeting summary is available online for review. Vote for approval.
3. FY 2020 Public Works Cost Share

- 2 additional approaches have been added
  - Shares based on population proportion
  - Calculation including income factor based on median income

- Options moving forward for FY2020
  1. Keep cost shares the same and revise amounts for FY2021
  2. Increase cost shares by 10% and revise amounts for FY2021
  3. Choose one of the new approaches developed
**Current Calculation**
Based on 113 entities and $573,575 budget

\[
\text{Part 1: Equal Share} + \text{Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area} = \text{Entity's Cost Share Amount}
\]

**Part 1: Equal Share** (57% of Budget: $326,937.75)
(57% Budget Estimate / Number of Entities)

**Part 2: Population** (14% of Budget: $80,300.50)
(Jurisdiction's 2001 Population / Total Population of Group) * 14% Budget Estimate

**Part 3: Growth** (7% of Budget: $40,150.25)
(Jurisdiction's Projected Population Increase / Total Projected Population Increase of Group) * 7% Budget Estimate

**Part 4: Land Area** (21% of Budget: $120,450.75)
(Jurisdiction's Land Area (sq. mi.) / Total Land Area of Group) * 21% Budget Estimate
Alternative A
Current Calculation with updated data

- Continue using the current calculation and weights, with updated budget of $360,000 and 2018 population estimates
- Update to 2045 population projections from NCTCOG RIS for 12 counties and 2050 population projections from Texas Water Development Board for additional 4 counties

\[
\text{Part 1: Equal Share} + \text{Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area} = \text{Entity's Cost Share Amount}
\]

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>57%</td>
<td>14%</td>
<td>7%</td>
<td>21%</td>
<td></td>
</tr>
</tbody>
</table>
Alternative A has 3 scenarios (see handout) and a budget of $360,000

\[
\text{Part 1: Equal Share} + \text{Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area} = \text{Entity's Cost Share Amount}
\]

**Part 1: Equal Share** (57% of Budget: $205,200)
(57% Budget Estimate / Number of Entities)

**Part 2: Population** (14% of Budget: $50,400)
(Jurisdiction's 2018 Population / Total Population of Group) * 14% Budget Estimate

**Part 3: Growth** (7% of Budget: $25,200)
(Jurisdiction's Projected Population Increase / Total Projected Population Increase of Group) * 7% Budget Estimate

**Part 4: Land Area** (21% of Budget: $75,600)
(Jurisdiction's Land Area (sq. mi.) / Total Land Area of Group) * 21% Budget Estimate
Alternative B
No Equal Share

- Continue using the current calculation with some alterations
  - Updated 2018 population estimates
  - Remove equal share amounts
  - Adjust weights to accommodate equal share removal

Part 1: Equal Share 0%  
Part 2: Population 33.3%  
Part 3: Growth 16.7%  
Part 4: Land Area 50%  
= Entity's Cost Share Amount
Alternative B has 3 scenarios (see handout) and a budget of $360,000

|---------------------|--------------------|----------------|-------------------|-----------------------------|

**Part 2: Population** (33.3% of Budget: $119,880)
(Jurisdiction's 2018 Population / Total Population of Group) * 33.3% Budget Estimate

**Part 3: Growth** (16.7% of Budget: $60,120)
(Jurisdiction's Projected Population Increase / Total Projected Population Increase of Group) * 16.7% Budget Estimate

**Part 4: Land Area** (50% of Budget: $180,000)
(Jurisdiction's Land Area (sq. mi.) / Total Land Area of Group) * 50% Budget Estimate
Alternative C
Population Tiered Rate

- Tiered rate is based on population solely. Population number would be updated to 2018 population data.

- Similar to NCTCOG’s WATER group and Codes Committee

\[
\text{Part 1: Equal Share} + \text{Alter Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area} = \text{Entity's Cost Share Amount}
\]

**Part 2: Population** (100% of Budget: $360,000)
(Jurisdiction's 2017 Population / Total Population of Group) * 100% Budget Estimate

Instead of having cost shares based on population proportion, cost shares would be determined using a tiered rate.
<table>
<thead>
<tr>
<th>CITIES</th>
<th></th>
<th></th>
<th>COUNTRIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>Cost Share</td>
<td>Population</td>
<td>Cost Share</td>
<td>Population</td>
</tr>
<tr>
<td>0 – 2,000</td>
<td>$1,000</td>
<td>50,001 – 100,000</td>
<td>$10,000</td>
<td>0 – 100,000</td>
</tr>
<tr>
<td>2,001 – 5,000</td>
<td>$1,500</td>
<td>100,001 – 500,000</td>
<td>$20,000</td>
<td>100,001 – 1,000,000</td>
</tr>
<tr>
<td>5,001 – 10,000</td>
<td>$2,500</td>
<td>500,001 – 1,000,000</td>
<td>$30,000</td>
<td>1,000,001+</td>
</tr>
<tr>
<td>10,001 – 25,000</td>
<td>$3,500</td>
<td>1,000,001+</td>
<td>$40,000</td>
<td></td>
</tr>
<tr>
<td>25,001 – 50,000</td>
<td>$5,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternative C has 3 scenarios and a budget of $360,000

*Example Tiered Rates*

- 100,001 – 250,000: $15,000
- 250,001 – 500,000: $20,000
Alternative D
Current Calculation with a 10% increase

- Continue using the current calculation, without any updates
- Increase all cost shares by 10%
- Increase from a $330,000 budget to $360,000 for FY2020
- Does not include all cities in region and maintains old data

\[
\text{Part 1: Equal Share} + \text{Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area} = \text{Entity's Cost Share Amount} \times 10\% 
\]
Alternative D has 3 scenarios (see handout) and a budget of $360,000

\[
\text{Part 1: Equal Share} + \text{Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area} = \text{Entity's Cost Share Amount} \times 10\%
\]

**Part 1: Equal Share** (57% of Budget: $330,566)
(57% Budget Estimate / Number of Entities)

**Part 2: Population** (14% of Budget: $81,192)
(Jurisdiction’s 2001 Population / Total Population of Group) * 14% Budget Estimate

**Part 3: Growth** (7% of Budget: $40,596)
(Jurisdiction's Projected Population Increase / Total Projected Population Increase of Group) * 7% Budget Estimate

**Part 4: Land Area** (21% of Budget: $121,787)
(Jurisdiction's Land Area (sq. mi.) / Total Land Area of Group) * 21% Budget Estimate
Alternative E
Population Proportion

- This approach is based on population proportion solely. Population number would be updated to 2018 population data.

- Requested by Council on 11/29/2018

\[
\text{Part 2: Population} \ (100\% \text{ of Budget: } \$360,000) \\
(\text{Jurisdiction's 2018 Population} / \text{Total Population of Group}) \times 100\% \text{ Budget Estimate}
\]
Alternative F
Income Factor

- Continue using the current calculation with some alterations
  - Updated 2018 population estimates
  - Remove equal share factor
  - Include an income factor based on median income

\[
\text{Entity's Cost Share Amount} = \text{NEW Part 1: Median Income Share} + \text{Part 2: Population} + \text{Part 3: Growth} + \text{Part 4: Land Area}
\]

- NEW Part 1: Median Income Share: 57%
- Part 2: Population: 14%
- Part 3: Growth: 7%
- Part 4: Land Area: 21%
Part 1: Equal Share Income Share
(Jurisdiction’s 2018 Median Income / Sum of Median Incomes) * 57% Budget Estimate
57% of Budget: **$188,100**

Part 2: Population
(Jurisdiction’s 2001 Population / Total Population of Group) * 14% Budget Estimate
14% of Budget: **$46,200**

Part 3: Growth
(Jurisdiction’s Projected Population Increase / Total Projected Population Increase of Group) * 7%
Budget Estimate
7% of Budget: **$23,100**

Part 4: Land Area
(Jurisdiction’s Land Area (sq. mi.) / Total Land Area of Group) * 21% Budget Estimate
21% of Budget: **$69,300**

Entity’s Cost Share Amount
4. Draft Council Bylaws

**Items of Discussion:**

- Vacancies
- Attendance
- Voting
Section 3: Terms of Office, B. Vacancy

In the event of a Council member vacancy, the replacement may be appointed from within the said vacated representative’s member organization (within a three-month time period) and shall serve for the remainder of the vacated representative’s unexpired term. Otherwise, the PWC and/or NCTCOG staff shall request a nomination from the primary member who previously recommended the prior incumbent member.
Section 4: Attendance

Members may **send designated alternates when necessary** to avoid an absence being counted. Designated alternates are individuals identified and appointed by the member organization to represent them. **The designee will have the same voting rights as the member.** It’s the member’s responsibility to sufficiently brief the designated alternate on the PWC meeting agenda items.

A representative’s attendance and participation in meetings, subcommittees, and related activities will be **evaluated during the PWC member re-appointment process.**
Section 4: Attendance

If an agency representative **accrues two (2) absences** at regularly scheduled or other meetings of the full Public Works Council **in a twelve (12) month calendar period**, a phone call will be made to the primary seat of that agency **requesting an active replacement** and/or the naming of a new alternate seat. If this phone call does not result in an active replacement and/or the naming of a new alternate seat, a **Notice of Inactivity** will be sent to the participating agency requesting an active replacement and/or the naming of a new alternate seat.

If no response is received from the member jurisdiction in response to the sent Notice of Inactivity, an **additional Notice of Inactivity will be sent to leadership officials** of that participating agency, including but not limited to, the political leader of agency.
Section 6: Voting

The presence of any combination of **fifteen (15) or more** Council members constitutes a quorum for conducting PWC business. A simple majority vote of the representatives present at a meeting at which a quorum is achieved is necessary to approve a motion by the PWC. Alternatively, electronic communication will be assumed to reach all members, and therefore achieves a quorum for the purpose of electronic business and action.
<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Meeting Date</th>
<th>Number of Council members present</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>11/29/2019</td>
<td>21</td>
</tr>
<tr>
<td>2018</td>
<td>8/16/2018</td>
<td>17</td>
</tr>
<tr>
<td>2018</td>
<td>5/10/2018</td>
<td>14</td>
</tr>
<tr>
<td>2018</td>
<td>2/8/2018</td>
<td>19</td>
</tr>
<tr>
<td>2018</td>
<td>11/16/2017</td>
<td>16</td>
</tr>
<tr>
<td>2018</td>
<td>10/12/2017</td>
<td>16</td>
</tr>
<tr>
<td>2017</td>
<td>8/31/2017</td>
<td>11</td>
</tr>
<tr>
<td>2017</td>
<td>5/18/2017</td>
<td>15</td>
</tr>
<tr>
<td>2017</td>
<td>2/16/2017</td>
<td>16</td>
</tr>
<tr>
<td>2017</td>
<td>11/3/2016</td>
<td>16</td>
</tr>
<tr>
<td>2016</td>
<td>8/25/2016</td>
<td>14</td>
</tr>
<tr>
<td>2016</td>
<td>5/19/2016</td>
<td>18</td>
</tr>
<tr>
<td>2016</td>
<td>2/25/2016</td>
<td>15</td>
</tr>
<tr>
<td>2016</td>
<td>11/12/2015</td>
<td>17</td>
</tr>
<tr>
<td>2015</td>
<td>8/27/2015</td>
<td>13</td>
</tr>
<tr>
<td>2015</td>
<td>5/28/2015</td>
<td>18</td>
</tr>
<tr>
<td>2015</td>
<td>2/26/2015</td>
<td>17</td>
</tr>
<tr>
<td>2015</td>
<td>11/20/2014</td>
<td>15</td>
</tr>
</tbody>
</table>

Red Highlight: Less than 15 PWC members present  
Green Highlight: 15+ PWC members present
20th Annual Public Works Roundup

Grapevine Convention Center
Potential Dates: Thursday, May 2, 2019
Tuesday, May 21, 2019
Wednesday, May 29, 2019

Sheraton Arlington Hotel
Potential Dates: Tuesday, April 30, 2019
Wednesday, May 1, 2019
Thursday, May 2, 2019
Tuesday, May 7, 2019
Wednesday, May 8, 2019

Date preference?
Additional venue suggestions?
www.nctcog.org/envir
### 20\textsuperscript{th} Annual Public Works Roundup Topics

*Remaining from last year*

<table>
<thead>
<tr>
<th></th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pond Dredging and Hydrographic Surveys: Best Practices for Water Planning and Management</td>
</tr>
<tr>
<td>2</td>
<td>Construction Best Management Practices for Site Design</td>
</tr>
<tr>
<td>3</td>
<td>Resiliency Efforts During Hurricane Harvey</td>
</tr>
<tr>
<td>4</td>
<td>Flood Software Update (OneRain/NCTCOG joint presentation)</td>
</tr>
<tr>
<td>5</td>
<td>Young Inspector Plan Review Training</td>
</tr>
<tr>
<td>6</td>
<td>Pipeline Safety (Gas)</td>
</tr>
<tr>
<td>7</td>
<td>TWDB’s Texas State Flood Plan Update</td>
</tr>
<tr>
<td>8</td>
<td>FEMA and the NFIP</td>
</tr>
<tr>
<td>9</td>
<td>Fleet Maintenance</td>
</tr>
<tr>
<td>10</td>
<td>Wastewater Treatment Plants BMPs</td>
</tr>
</tbody>
</table>
20th Annual Public Works Roundup Topics

New Topics/Ideas

1. Drones: Maintenance and Inspection
2. Drones: Construction, Surveying, and Mapping
3. Autonomous Vehicles
4. Smart Cities
5. Asset Management
6. 2D Modeling: Floodplain
7. LiDAR
8. 2018 Construction General Permit (CGP) TXR150000 & Small Municipal Separate Storm Sewer Systems (MS4) General Permit, TXR040000 Renewal
9. ROW Implementation
10. Street Construction and Maintenance
11. Construction Site Review and Inspection
12. Municipal and Urban Tree Care
13. Supervision in Public Works
14. Work Zone Construction Site Safety
15. Traffic Management for First Responders
16. Infrastructure Investments
17. Complete Streets Implementation
18. Resilience of Transit Systems
19. Other
6. FY 2019 Public Works Work Program Update
Are you aware of NCTCOG’s Regional Public Works Cost Share Program?

- Yes: 26
- No: 10

Answered: 36   Skipped: 0
Does your entity currently participate in NCTCOG’s Public Works Cost Share initiative?

Answered: 26  Skipped: 10

Yes: 17
No: 3
I’m not sure: 6
Why does your entity choose to participate in NCTCOG’s Public Works Cost Share Program? Select all that apply.

- I am a PWC member: 10
- Regularly participate in COG’s activities: 13
- Benefit from NCTCOG’s PW efforts: 15
- Value regional NCTCOG PW initiatives: 13
- Other (please specify): 1
If you had more information on this public works cost share initiative, would you be interested in participating?

- Yes: 9
- No: 2
- I’m not sure: 7
What reasons keep you and your entity from participating in NCTCOG’s Public Works Cost Share initiative? Select all that apply.

- Limited budget/cost of participation: 3
- Unsure of cost share program benefits: 6
- Uncertainty on how to participate: 2
- Do not frequently work with NCTCOG: 2
- Don’t have authority to commit to program: 4
- Other: 0
Council Preferences on Training Needs
(From 02/08/2018 PWC Meeting)

- Pipeline Safety (gas)
- Inspector Training (field issues)
- Work Zone Traffic Control
- Inspector Roundtable
  - Young Inspector Plan Review Training (11/06/2018)
- Beginner, Hands-on inspectors
  - Construction Contracts Guidance (8/14/2018)
- Construction – best practices, safety, and/or ADA compliance
FY 2019 Regional Public Works Program Participation

NCTCOG is still accepting Cost Share Commitment Response Forms electronically for the FY2019 Regional Public Works Program!

Cost shares for FY2019 remain the same as the FY2018 cost shares.

To access your cost share commitment, please visit:
https://www.nctcog.org/envir/pwcostshare

<table>
<thead>
<tr>
<th>Current FY 2019 Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Committed</td>
</tr>
<tr>
<td>Percent of Goal Achieved</td>
</tr>
</tbody>
</table>
Presented by Chris Cha

• Subcommittee has been reviewing the drawings from *Division 6000: Storm Water Drainage*.

• Discussed survey results where respondents prioritized Division 6000 drawings and provided additional drawing suggestions

• Interested in including the City of Coppell’s Standard Detail 6085

• **Upcoming Meeting:**  
  • March 11, 2019 at 10 am  
  Metroplex Conference Room, NCTCOG Offices
CUT AND BEND EXPOSED REINFORCEMENT BAR IN EXISTING RCP AND TIE TO PROPOSED WIRE MESH

SEE EXISTING STORM DRAIN PENETRATION DETAIL, THIS SHEET

RADIUS END OF PROPOSED RCP TO MATCH EXISTING RCP

12x12-44#W4 WIRE MESH REINFORCEMENT
CLASS "A" CONCRETE

PROPOSED RCP

EXISTING RCP

DRILLED HOLES, SPACING EQUAL TO THE DRILL DIAMETER, IN A CIRCULAR PATTERN. REINFORCEMENT BARS IN EXISTING RCP SHALL REMAIN INTACT.

EIGHT SAWCUTS EQUALLY SPACED. REINFORCEMENT BARS IN EXISTING RCP SHALL REMAIN INTACT.

OUTSIDE DIAMETER OF PROPOSED RCP

OUTSIDE DIAMETER OF EXISTING RCP

CONNECTION OF PROPOSED TO EXISTING RCP STORM DRAIN

EXISTING STORM DRAIN PENETRATION METHODS

NOTES:

1. THE CONNECTION METHODS SHOWN ON THIS DETAIL SHALL ONLY BE USED WHEN THE USE OF A PREFABRICATED RCP CONNECTION IS NOT POSSIBLE, AND WITH THE APPROVAL OF THE CITY ENGINEER.

2. NO. 3 BARS ON 6" CTRS. MAY BE USED IN PLACE OF WIRE MESH REINFORCEMENT.

PIPE COLLAR FOR FIELD CONNECTION

DIAMETER OF SMALLER PIPE

SLOPED INVERT

12x12-44#W4 WIRE MESH REINFORCEMENT
CLASS "A" CONCRETE

FLOW
Sustainable Public Rights of Way (SPROW)

Presented by Robert Woodbury

- Subcommittee most recently met on January 22, 2019
- The group reviewed survey results, which included responses from cities and counties, as well as telecommunication providers
- Discussed SPROW BMP Guidelines Document
- Next meeting: Tuesday, April 9, 2019 at 1:30 pm
  Metroplex Conference Room
  NCTCOG Offices

www.nctcog.org/envir
Integrated Stormwater Management (iSWM)

Presented by Ranjan Muttiah

- **Specifications and details for site development controls**
  
  Adding 10 iSWM Technical Manual schematics into Public Works Construction Standard Details

- **Provide additional detail and standards for proprietary devices**
  
  Specifying the process and procedures for evaluation of proprietary device performance by communities

- **iSWM Technical Assistance Opportunity – FIRST ROUND OPEN NOW**
  
  Free technical assistance related to the adoption or implementation of iSWM will be available

  Technical services will be provided by Halff Associates on a first come, first serve basis from March 1, 2019 – April 1, 2020

**February 22 – Deadline to notify Carolyn Horner (chorner@nctcog.org)**
7. Other Program Activities

- **Cooperative Technical Partnership Program**
  - FY16 East Fork Discovery ongoing; Discovery Meeting for communities is March 1st.
  - FY16 Flood Risk ID Projects in Tarrant County and Cleburne ongoing. Flood Risk Review meetings have been held for both communities and projects will wrap up in late summer.
  - FY17 Flood Risk ID Projects in Benbrook and Weatherford ongoing.
  - FY17 Richland-Chambers Discovery will kick off in April 2019.
  - FY18 Flood Risk ID Project on Marys Creek in Parker County has been awarded. Task Order with Halff currently being executed. Project kick-off in April.

- **Community Rating System Users Group**
  - Next meeting date February 27th – NOAA Atlas 14 results for North Texas and incorporation into drainage manuals. Seats still available. Register at www.nctcog.org/envir/events
Public Works Emergency Response Team (PWERT) Update

• Contact Information:

Manny Palacios
Chair
mpalacios@weatherfordtx.gov

Mistie Gardner
Vice Chair
mistie.gardner@cor.gov

Jessica Mason
NCTCOG Rep
JMason@nctcog.org

www.nctcog.org/envir
North Central Texas Branch
American Public Works Association
March 5, 2019 at 3:00pm

The City of Fort Worth – Accreditation Presentation

Agency Accreditation award from APWA

March 22, 2019

- 5th Annual Sporting Clay Tournament
  - Alpine Shooting Range in Fort Worth

- Proceeds benefit Branch Scholarship Fund

- Sign up on the Branch Website
April 16, 2019

- Next Branch Luncheon
- Fort Worth Botanical Gardens
- Registration is now open on the Branch website [http://nctxbranch.apwa.net/EventDetails/17661](http://nctxbranch.apwa.net/EventDetails/17661)
- Email [jvonahsen@msa-ps.com](mailto:jvonahsen@msa-ps.com) if you do not receive Branch emails, but would like to about TPWA NCTB events
May 17, 2019

- 7th Annual Team Bass Tournament
  - Rough Creek Park, Lake Granbury
  - http://nctxbranch.apwa.net/EventDetails/17149
2019 Activities – RoadEO

2nd Annual NCT Branch Public Works Equipment RoadEO
Hosted by ASCO Equipment, Euless, TX; Date TBD

- Competition with Mini-Excavator or Backhoe
- $500 Branch Scholarship 1st Place Winner in each Event to Compete in the 2020 State Chapter RoadEO
2019 TPWA Annual Conference

SAVE THE DATE

When: June 5-8, 2019
Where: Austin, TX
How: http://texas.apwa.net/EventDetails/15223
8. Future Agenda Items

9. Roundtable Topics/Other Business

Now, It's **YOUR** Turn...
Applications for the 2019 CLIDE Awards are open. The application deadline is 5 p.m. CT on March 8, 2019.

Applications must be submitted through the website below.

http://www.developmentexcellence.com/
10. Next Public Works Council Meeting

The next PWC meeting is scheduled for:

Thursday, **May 9, 2019**
9:30 a.m. – 11 a.m.
NCTCOG’s Regional Forum Room

www.nctcog.org/envir