CONSTRUCTION NOTES:

1. CONTRACTOR MUST CODEWORK AREA AROUND OTHER CONTRACTORS IN THE AREA AND SHALL AVOID CONFLICTS WITH ANY SPECIAL EVENT THAT MAY OCCUR BETWEEN THE PERIOD FROM THE INITIAL NOTICE TO THE JOB SITE FOR THE SPECIAL EVENT AND THE FORECASTED DATE OF CONSTRUCTION.

2. THE CONTRACTOR SHALL SUBMIT A WEEKLY WORK PLAN THAT OUTLINES THE EXECUTION OF THE PROJECT FROM START-TO-FINISH. THE WORK PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO, SITE ACCESS, SITE PREPARATION, FOOTINGS, BEARING FOOTINGS, PIPE IN-PLANT, PIPE INSTALLATION, PIPE TESTING, AND DATA REPORTING. INCLUDE FILE FOR SECURITY IN THE COST ESTIMATE AS DEEMED APPROPRIATE BY THE WORK PLAN.

3. NO EXCAVATION OR LAND DISTURBANCE IS ANTICIPATED FOR THE PROPOSED SANITARY IMPROVEMENTS.

4. KNOWN UNDER CONSTRUCTION DEVELOPMENTS ARE ENCLOSED ON THE PLANS, BUT OTHER PROJECTS MAY BE ENCOUNTERED WITHIN THESE PLANS WHICH MAY OCCUR BETWEEN THE PERIOD FROM THE INITIAL NOTICE TO THE JOB SITE FOR THE SPECIAL EVENT AND THE FORECASTED DATE OF CONSTRUCTION.

5. THIS PROJECT HAS POTENTIAL IMPACTS TO THE LA FAMILIA RECREATION CENTER AND 14TH & KALAMATH (LANDS). CONTACT ERICK ANDERSON AT (720) 34-17-50 FOR MORE INFORMATION. ALLOW AT LEAST 5 DAYS FOR PROCESSING AFTER APPLICATION IS SUBMITTED.

6. DUE TO HIGH TRAFFIC VOLUMES AND OTHER FACTORS, THERE WILL BE SEVERAL LOCATIONS WHICH WILL REQUIRE A HIGH LEVEL OF CARE. THESE LOCATIONS SHALL BE SPECIFIED IN THE WORK PLAN. CONTRACTOR MUST COORDINATE WORK AROUND OTHER CONTRACTORS IN THE AREA AND SHALL AVOID CONFLICTS WITH ANY SPECIAL EVENT THAT MAY OCCUR BETWEEN THE PERIOD FROM THE INITIAL NOTICE TO THE JOB SITE FOR THE SPECIAL EVENT AND THE FORECASTED DATE OF CONSTRUCTION.

7. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.

8. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISIBLE DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.

9. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT ALL WATER FACILITIES. IF ANY WATER FACILITIES CANNOT BE PROTECTED, THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT AND TEST WATER FACILITIES. INCLUDE FEE FOR SECURITY IN THE COST ESTIMATE AS DEEMED APPROPRIATE BY THE WORK PLAN.

10. ALL RANGE POINTS OR OTHER SURVEY MONUMENTS WHICH MAY BE DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE TIED OUT AND RESET BY CITY SURVEYING STANDARDS.

11. ALL ELEVATIONS SHOWN ARE NAVD 88 UNLESS OTHERWISE NOTED.

12. MANHOLES BUILT WITHIN THIS PROJECT SHALL INCLUDE EITHER A 4" OR 8" CAST IRON RISER WITH 3" STEEL ADJUSTING RINGS.

13. NORTHING AND EASTING CALLOUTS ON MANHOLES ARE TO THE CENTER OF MANHOLE. NORTHING AND EASTING CALLOUTS ON TYPE 16 AND TYPE 14 INLETS ARE TO THE CENTER OF THE STRUCTURE AT THE FLOWLINE. NORTHING INSIDE EDGE OF INLETS.

14. THIS PROJECT HAS POTENTIAL IMPACTS TO LA FAMILIA RECREATION CENTER AND 14TH & KALAMATH ISLANDS. CONTACT ERICK ANDERSON AT (720) 34-17-50 FOR MORE INFORMATION. ALLOW AT LEAST 5 DAYS FOR PROCESSING AFTER APPLICATION IS SUBMITTED.

15. CONTACT ORION CONTRACTORS AT (720) 34-17-50 FOR MORE INFORMATION. ALLOW AT LEAST 5 DAYS FOR PROCESSING AFTER APPLICATION IS SUBMITTED.

16. ANY WORK OR STAGING ON PARK PROPERTY OR WITHIN THE LA FAMILIA RECREATION CENTER AND 14TH & KALAMATH ISLANDS WILL REQUIRE A REQUEST FOR PUBLIC WORKS REVOCABLE STREET OCCUPANCY PERMITS (RSOP) SHOULD BE SUBMITTED IN SMALL SECTIONS THAT WILL ALLOW THE CONTRACTOR TO COMPLETE THE PROJECT IN A FLEXIBLE MANNER. REQUEST FOR PUBLIC WORKS REVOCABLE STREET OCCUPANCY PERMITS (RSOP) SHOULD BE SUBMITTED IN SMALL SECTIONS THAT WILL ALLOW THE CONTRACTOR TO COMPLETE THE PROJECT IN A FLEXIBLE MANNER.

17. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.

18. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.


20. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.


22. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.

23. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.

24. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISUAL DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY LINE FROM WHICH THE EMISSIONS ORIGINATE. THE MEASURES TO BE TAKEN MUST BE OF A MANNER AND MODALITY THAT MAY BE MODIFIED IN THE FIELD AS COORDINATED BETWEEN THE CONTRACTOR AND THE CITY CONSTRUCTION PROJECT MANAGER.
OFFICE OF THE CITY FORESTER NOTES FOR UTILITY PLAN SUBMITTALS - OCTOBER 2017

1. UTILITY PROJECTS THAT DO NOT GO THROUGH THE OFFICE OF THE CITY FORESTER (OCF) REVIEW PROCESS OR DO NOT RECEIVE OCF APPROVAL; OCF RESERVES THE RIGHT TO PLANT IN THE PRW AND CANNOT BE HELD LIABLE FOR ANY DAMAGE THAT OCCURS TO UTILITY WITHIN PRW WHERE UTILITY IS NOT PLACED AT A MINIMUM DEPTH OF 36 INCHES.

2. OCF RESERVES THE RIGHT TO DECLINE UNUMBERED SPACE IN THE PRW FOR FUTURE AND REPLACEMENT PRW TREES. SHOULD THESE AREAS BE VIOLATED BY ANY UTILITY, THE UTILITY OWNER SHALL RE-MOVICE UTILITY AT OWNERS EXPENSE.

3. THE CONTRACTOR SHALL NOT SPRAY, CUT, OR TRIM TREES OR OTHER LANDSCAPING ELEMENTS WITHIN ROW, UNLESS SUCH WORK IS OTHERWISE SPECIFIED OR CLEARLY INDICATED ON THE APPROVED PLANS.

4. ANY DISTURBED LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER CONDITION THAN THAT WHICH EXISTED PRIOR TO WORK.

5. SEEDING, SODDING, AND PLANTING SHALL BE AS SPECIFIED OR OTHERWISE APPROVED BY THE CITY, CONSTRUCTION, MAINTENANCE, AND WATERING REQUIREMENTS SHALL CONFORM TO THE CITY STANDARDS SPECIFICATIONS. WHERE LANDSCAPE RESTORATION MUST BE DELAYED DUE TO SEASONAL REQUIREMENTS, A SEPARATE PERMIT MAY AUTHORIZE SUCH WORK.

6. THE CITY REQUIRES COMPLIANCE WITH THE FOLLOWING WHEN WORK IS NECESSARY AND/OR REQUIRED ADJACENT TO TREES IN THE PRW OR OTHER PUBLIC SPACES:

   a) TREE PROTECTION ZONE (TPZ) IS THE AREA EQUAL TO 1.5 FEET PER 1-INCH DIAMETER TREE MEASURED AT 4.5 FEET ABOVE GRADE OR THE DRIPLINE OF THE TREE, WHICHEVER IS GREATER.

      i. TPZ FENCING SHALL BE ESTABLISHED PRIOR TO WORK COMMENCING. SEE TREE PROTECTION DETAIL AVAILABLE ON WEBSITE.

      ii. NO MODIFICATION OF TPZ FENCING SHALL OCCUR WITHOUT PRIOR AUTHORIZATION FROM OCF.

      iii. NO EXCAVATION OR EQUIPMENT STORAGE SHALL OCCUR WITHIN THE TPZ WITHOUT PRIOR AUTHORIZATION FROM OCF.

      iv. HAND WORK ONLY WITHIN THIS AREA UNLESS PRIOR AUTHORIZATION GIVEN BY OCF.

      v. ROOTS 2-INCHES AND LARGER SHALL NOT BE CUT. IF CONFLICT ARISES, CONTRACTOR MUST CONTACT OCF PRIOR TO CONTRACTION OF WORK.

   b) ALL PIT LOCATIONS MUST BE STAKED AND APPROVED PRIOR TO AN EXCAVATION.

   c) TRENCHING SHALL OCCUR WITHIN THE TPZ WITHOUT VERIFYING LOCATION OF EXISTING ROOTS THAT MAY BE IMPACTED BY EXCAVATION:

      i. APPROVED ROOT DISCOVERY METHODS INCLUDE: HAND WORK, AIR SPACE, GROUND PENETRATING RADAR, OR OTHER OCF APPROVED METHOD.

      ii. ADJUST THE ROUTE TO AVOID ROOTS AS MUCH AS POSSIBLE.

      iii. MINIMIZE THE WORK PIT TO NO WIDER THAN THE TRENCH.

      iv. STORE SOIL OPPOSITE THE TREE SIDE OF THE TRENCH.

      v. BACKFILL QUICKLY AND CLEANLY, AND WATER ROOTS DEEPLY.

      vi. EXPOSED ROOTS MUST BE KEPT MOIST AT ALL TIMES. COVER EXPOSED ROOTS WITH BURLAP OR OTHER MATERIAL THAT WILL HOLD MOISTURE AGAINST EXPOSED ROOTS.

   d) TUNNELING/DIRECTIONAL BORING MUST BE AT LEAST 36 INCHES BELOW GRADE, 48 INCHES PREFERRED.

      i. FINAL DEPTH OF INSTALLED UTILITY MUST BE AT A MINIMUM OF 36 INCHES BELOW FINAL GRADE. DUE TO THE INABILITY TO CONSISTENTLY MAINTAIN ACCURATE BORING DEPTHS, IT IS STRONGLY RECOMMENDED TO TARGET A DEPTH OF 48 INCHES TO ENSURE NO VIOLATION OF THE 36-INCH MINIMUM DEPTH OCCURS.

      ii. THE CITY MAY ORDER THE LOWERING OF INSTALLED UTILITIES WHEN THEY ARE DISCOVERED NOT TO BE DEEPER THAN THE 36-INCH MINIMUM.

      iii. TUNNELING/DIRECTIONAL BORING MUST BE AT LEAST 36 INCHES BELOW GRADE, 48 INCHES PREFERRED.

      iv. THE CRITICAL ROOT ZONE (CRZ) IS THE AREA WITHIN THE TPZ AND EQUAL TO 1 LINEAR FOOT RADIUS PER 1-INCH DIAMETER OF TREE TRUNK MEASURED AT 4.5 FEET ABOVE THE GROUND.

      v. NO ROOT DISTURBANCE SHALL OCCUR WITHIN THIS AREA.

      a. IF NOT POSSIBLE, CONTRACTOR MUST MEET WITH OCF PERSONNEL ON SITE.

      b. WHEN WORK OCCURS WITHIN CRZ, EXCAVATION MUST BE PERFORMED WITH HAND-TOOLS, AIR SPACE, OR OTHER OCF APPROVED METHOD.

      c. THE STRUCTURAL ROOT ZONE (SRZ) IS THE AREA WITHIN THE TPZ AND EQUAL TO 0.9 TIMES PER INCH DIAMETER OF THE TREE MEASURED AT 4.5 FEET ABOVE THE GROUND (0.9*).

      i. NO ACTIVITY SHALL OCCUR WITHIN THIS ZONE WITH THE EXCEPTION OF DIRECTIONAL BORING AT A MINIMUM DEPTH OF 36 INCHES BELOW GRADE, 48 INCHES PREFERRED.

      a. FINAL DEPTH OF INSTALLED UTILITY MUST BE AT A MINIMUM OF 36 INCHES BELOW FINAL GRADE. DUE TO THE INABILITY TO CONSISTENTLY MAINTAIN ACCURATE BORING DEPTHS, IT IS STRONGLY RECOMMENDED TO TARGET A DEPTH OF 48 INCHES TO ENSURE NO VIOLATION OF THE 36-INCH MINIMUM DEPTH OCCURS.

      b. THE CITY MAY ORDER THE LOWERING OF INSTALLED UTILITIES WHEN THEY ARE DISCOVERED NOT TO BE DEEPER THAN THE 36-INCH MINIMUM.

   7. SHOULD ANY TREE DAMAGE OCCUR, CONTRACTOR SHALL CONTACT THE OCF IMMEDIATELY.

      a. RETAIN AN OCF LICENSED TREE COMPANY TO PRUNE BROKEN BRANCHES AS WELL AS COMPENSATORY PRUNING IF NECESSARY FROM ROOT LOSS.

   8. THE CITY OF DENVER TREE RETENTION AND PROTECTION SPECIFICATIONS MUST BE FOLLOWED. FOR A COPY OF THE TREE PROTECTION SPECIFICATIONS PLEASE CONTACT THE OFFICE OF THE CITY FORESTER AT (720) 913-0651 OR EMAIL AT FORESTRY@DENVERGOV.ORG
CONTACT GABY SERRADO (GABRIELLA.SERRADO@DENVERGOV.ORG) PRIOR TO LINING THESE TWO MAINS. FEDERAL BLVD IS AN ACTIVE CORRIDOR FOR CITY AND PRIVATE IMPROVEMENTS, SO IT IS RECOMMENDED TO LINE THESE MAINS EARLY IN THE PROJECT IF POSSIBLE IN RELATION TO ADJACENT PROJECTS.
<table>
<thead>
<tr>
<th>SAGM</th>
<th>W 12TH AVE</th>
<th>N LIPAN ST</th>
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<tr>
<td>28725</td>
<td>N MARIPOSA ST</td>
<td>N KALAMATH ST</td>
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<tr>
<td>28567</td>
<td>MATCHLINE - SEE SHEET 11</td>
<td>MATCHLINE - SEE SHEET 15</td>
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<tr>
<td>28570</td>
<td>MATCHLINE - SEE SHEET 9</td>
<td>MATCHLINE - SEE SHEET 10</td>
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</tbody>
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**Data Sheet**

- **W 12TH AVE**
  - 919 W 12TH AVE
  - 923 W 12TH AVE
  - 927 W 12TH AVE
  - 929 W 12TH AVE

- **N LIPAN ST**
  - 1247 N LIPAN ST
  - 1248 N LIPAN ST
  - 1249 N LIPAN ST

- **N KALAMATH ST**
  - 1251 N KALAMATH ST
  - 1252 N KALAMATH ST
  - 1253 N KALAMATH ST

- **N MARIPOSA ST**
  - 1174 N MARIPOSA ST
  - 1175 N MARIPOSA ST
  - 1176 N MARIPOSA ST

- **N SANTA FE DR**
  - 1111 N SANTA FE DR
  - 1112 N SANTA FE DR
  - 1113 N SANTA FE DR

**Additional Information**

- Scale: 1" = 50'
MATCHLINE - SEE SHEET 12

N LIPAN ST

N KALAMATH ST

N MARIPOSA ST

W 11TH AVE

W 10TH AVE

MATCHLINE - SEE SHEET 14 - SHEET 14

MATCHLINE - SEE SHEET 12

SCALE: 1" = 50'

W 10TH AVE

N LIPAN ST

N KALAMATH ST

N MARIPOSA ST

W 11TH AVE