GENERAL CONCRETE & REINFORCEMENT NOTES

GENERAL

1. ALL CONCRETE AND REINFORCEMENT MATERIALS AND PLACEMENT MUST COMPLY WITH SECTION 5.1 OF THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. CURING MEMBRANE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

MATERIALS

3. ALL CONCRETE SHALL BE 3000 PSI, 5 SACK, MIX WITH A MAXIMUM 15% FLY ASH CONTENT; PLACED AT SLUMP VALUES AS SPECIFIED IN SECTION 5.1 PART 3. PARAGRAPH B.
4. ALL REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60, UNLESS OTHERWISE SPECIFIED.

SITE PREPARATION

5. GRADE AND SUBGRADE NEED TO BE ADEQUATELY WATERED, PRIOR TO THE PLACEMENT OF PUG AND PRIOR TO THE PLACEMENT OF CONCRETE.
6. GRADE AND/OR SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AT ±2% OPTIMAL MOISTURE CONTENT.

REINFORCING STEEL

7. CONSTRUCTION VEHICLES SHALL NOT DRIVE ON REINFORCEMENT.
8. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS AND THE ACI STANDARDS, WITH OVERLAPS OF 40 BAR DIAMETERS.
9. DOWEL BARS SHALL BE SMOOTH, LEVEL, AND PERPENDICULAR TO THE JOINT; ADEQUATELY SUPPORTED TO RETAIN PROPER ALIGNMENT; AND SHALL HAVE ONE END PROTECTED AGAINST BONDING TO THE CONCRETE IN ACCORDANCE WITH STANDARD CONSTRUCTIONS SPECIFICATIONS (SEE SECTION 5.1 PART 2 ITEM 6).
10. REBAR CHAIRS SHALL BE PLACED ON 4' MAXIMUM SPACING, EACH WAY.
11. REINFORCING STEEL COVER SHALL BE MINIMUM 2 IN. FORMED AND 3 IN. AGAINST EARTH IF UNFORMED FROM OUTSIDE LAYER OF STEEL TO FACE OF CONCRETE. THE MAXIMUM LATERAL COVER IS 3 INCHES.

CONCRETE

12. PLACEMENT OF CONCRETE NEEDS TO COMPLY WITH THE SPECIFICATIONS AND ACI STANDARDS, INCLUDING HOT AND COLD WEATHER PLACEMENT. SEE STANDARD SPECIFICATION SECTION 5.1 PART 3 ITEM E FOR MORE INFORMATION.
13. NO WATER SHALL BE ADDED AFTER INSPECTION AND TESTING.
14. CONCRETE SHALL BE VIBRATED WHERE POSSIBLE.
15. UNLESS OTHERWISE SPECIFIED, CONCRETE SHALL BE PLACED AT 4 IN. SLUMP, ± 1 INCH.

DIMENSIONAL TOLERANCES

16. LEVEL AND HORIZONTAL ALIGNMENT TOLERANCES FOR CURBS, GUTTERS, PAVEMENTS, SIDEWALKS, AND RAMPS, IN ALL DIRECTIONS, SHALL BE SUCH THAT THE GAP BELOW AN UNLEVELED 10' STRAIGHTEDGE RESTING ON THE HIGH SPOTS SHALL NOT EXCEED 1/8 INCH.
17. DIMENSIONAL TOLERANCES FOR OTHER CONCRETE PLACEMENTS SHALL COMPLY WITH ACI 117.

CONSTRUCTION AND CRACK CONTROL AND EXPANSION JOINTS

18. UNLESS OTHERWISE SPECIFIED CONSTRUCTION (FULL DEPTH) JOINTS SHALL BE PLACED AT MAXIMUM OF 50' AND CRACK CONTROL JOINTS (DUMMY JOINTS) AT A MAXIMUM OF 10'.
19. CRACK CONTROL JOINTS MAY BE TOOLED OR SAWED A MINIMUM OF 1/2 THE THICKNESS OF THE CONCRETE ON CURB AND GUTTER AND 1/2 INCH ON SIDEWALKS.
20. CONSTRUCTION JOINTS ARE FULL DEPTH JOINTS AND MAY BE CONSTRUCTED WITH DOWEL BARS, AS INDICATED IN THE DESIGN AND DETAILS.
21. EXPANSION BARS ARE FULL DEPTH JOINTS THAT MAY BE CONSTRUCTED WITH SMOOTH BARS AS INDICATED IN THE DESIGN AND DETAILS. EXPANSION MATERIAL MAY BE ½ IN. THICK REDWOOD OR ANY MATERIAL COMPLYING WITH ASTM D 1751. ALL MATERIALS MUST BE PLACED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.