



### UTILITY CROSSING DETAIL

| PROPOSED UTILITY | MINIMUM HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS |       |                 |       |                                 |       |             |       |
|------------------|---|-------|-----------------|-------|---------------------------------|-------|-------------|-------|
|                  | POTABLE WATER   |       | RECLAIMED WATER |       | SANITARY SEWER (GRAVITY & F.M.) |       | STORM DRAIN |       |
|                  | HORIZ.  | VERT. | HORIZ.          | VERT. | HORIZ.                          | VERT. | HORIZ.      | VERT. |
| POTABLE WATER    | 3'  | 6"    | 3'              | 12"   | 6' ALLOWED<br>10' PREFERRED     | 12"   | 3'          | 12"   |
| RECLAIMED WATER  | 3'  | 12"   | 3'              | 6"    | 3'                              | 12"   | 3'          | 6"    |
| SANITARY SEWER   | 6' ALLOWED<br>10' PREFERRED                           | 12"   | 3'              | 12"   | 3'                              | 6"    | 3'          | 6"    |

**NOTES:**

1. PIPE RESTRAINTS SHALL BE PER THE THRUST RESTRAINT DETAIL TOHO-19 AND RESTRAINED JOINT TABLE TOHO-20.
2. THIS TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.) AND TOHO'S SEPARATION REQUIREMENTS TO FACILITATE FUTURE MAINTENANCE. THESE REQUIREMENTS SHALL APPLY BETWEEN PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES. ADDITIONAL SEPARATION BASED ON PIPE SIZE(S) AND LOCATION MAY BE REQUIRED AT TOHO'S DISCRETION.
3. RECLAIMED WATER IS DEFINED AS UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.
4. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED:
  - 4.1. AT TOHO'S DISCRETION, THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY SANITARY SEWER MAINS MAY BE REDUCED TO 3' WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6" ABOVE THE TOP OF THE SEWER MAIN.
  - 4.2. AT TOHO'S DISCRETION THE VERTICAL SEPARATION FOR WATER MAINS AND STORM SEWER MAINS OR GRAVITY SEWER MAINS MAY BE REDUCED TO 6" IF THE WATER MAIN IS LOCATED ABOVE THE STORM SEWER OR GRAVITY SEWER MAIN(S).
5. WHERE POTABLE WATER AND SANITARY SEWER MAINS OR RECLAIM WATER MAINS CROSS, THE WATER MAIN SHALL BE CENTERED ON THE CROSSING. ALL WATER MAIN JOINTS SHALL BE AT LEAST 6' AWAY FROM ALL SEWER OR RECLAIM JOINTS AND AT LEAST 3' AWAY FROM ALL STORM SEWER JOINTS.
6. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER OR STORM SEWER MANHOLE, STRUCTURE, OR PIPE.
7. IF 36" MINIMUM DEPTH OF COVER IS NOT MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL MAY BE REQUIRED AT THE DIRECTION OF TOHO.

|  |                      |            |   |                                |
|--|----------------------|------------|---|--------------------------------|
|  | EFFECTIVE DATE:      | 04/01/2025 | <h2 style="margin: 0;">PIPE CLEARANCES AND CROSSINGS</h2> | DRAWING NUMBER                 |
|  | BOARD APPROVED DATE: | 01/22/2025 |   | <h1 style="margin: 0;">16</h1> |
|  | PREVIOUS VERSION:    | 2022       |   |                                |
|  | DRAWN BY:            | CC         |   |                                |
|  | REVISED BY:          | DT         |   |                                |