SECTION 33 00 00 – UTILITIES

PART 1: GENERAL

1.01 SCOPE OF STANDARD

A. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

B. All utility connections to the various campus utility distribution systems shall be accurately located by dimensions or coordinates. Depth of piping shall be shown and inverts must be shown at manholes and other critical points.

C. Record documents are the basis for the University’s BIM to FM Program. The BIM program implements the required Construction Operations Building information exchange (COBie). COBie is the required process of data collection by the architect/engineer and the contractor to handoff a data file at project closeout that is consumable by the University’s CMMS or CAFM software.

D. All site utilities shall be included as part of the BIM(s). All site utilities shall be shown accurately in terms of size, depth and location.

E. Verification of design to ensure the sanitary sewer system is not cross connected to stormwater, rainwater collection or guttering inside and outside of building

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Section 31 00 00 Earth Work
B. Section 22 00 00 Plumbing
C. Section 26 00 00 Electrical

PART 2: SCOPE OF WORK

2.01 SANITARY SEWER UTILITIES

A. Refer to Section 22 00 00 – Plumbing General Systems Design

2.02 WATER UTILITIES

A. Refer to Section 22 00 00 – Plumbing General Systems Design
SECTION 33 00 00 – UTILITIES

2.03 STORM DRAINAGE UTILITIES
   A. Refer to Sections 22 00 00 – Plumbing and Section 31 00 00 Earth Work

2.04 ELECTRICAL DISTRIBUTION (Underground Ductbanks)
   A. Refer to Section 26 00 00 – Electrical

2.05 MANHOLE COVERS
   A. Texas State University has standardized utility manhole covers to be used on all underground utility access on campus. All new manhole cover installations must be heavy duty gray iron as manufactured by East Jordon Iron Work (EJ) or approved equal. Standard thickness is used for pedestrian and non-vehicular application. For manholes in vehicular traffic roadways and drives a DOT rated thickness is required.
   B. Locking system consisting of security driven bolt and spring loaded pistons required.
   C. Refer to the attached specification sheet for MANHOLE COVER MARKING STANDARDS.

PART 3 – EXECUTION

3.01 N/A
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