SITE UTILITY NOTES

(S1) CONTRACTOR SHALL PROVIDE AND CONSTRUCT CONCRETE TRANSFORMER PAD PER ONCOR ELECTRIC STANDARDS AND SPECIFICATIONS. ONCOR TO PROVIDE PAD MOUNTED TRANSFORMER WITH 277V/480V, 3 PHASE, 4 WIRE SECONDARY. VERIFY EXACT LOCATION WITH ONCOR AND OWNER PRIOR TO ROUGH-ON. CONTRACTOR SHALL CONTACT ONCOR FOR ALL SPECIFICATIONS AND STANDARDS.

(S2) PROPOSED ROUTING OF ELECTRICAL SECONDARY. CONTRACTOR SHALL PROVIDE AND INSTALL (3) 4" SCHEDULE 40 PVC CONDUITS WITH CONDUCTORS FROM TRANSFORMER TO PROPOSED METER CAN. CONTRACTOR SHALL VERIFY EXACT LOCATION AND REQUIREMENTS WITH ONCOR AND OWNER PRIOR TO ROUGH IN.

(S3) ONCOR SHALL PROVIDE AND INSTALL (2) METER CANS. METERS WILL BE LOCATED ON TRANSFORMERS. CONTRACTOR SHALL VERIFY EXACT LOCATION AND REQUIREMENTS WITH ONCOR AND OWNER PRIOR TO ROUGH IN. ONCOR WILL SET METER ONCE REQUIREMENTS HAVE BEEN MET.

(S4) CONTRACTOR SHALL PROVIDE AND INSTALL (4) 4" PRIMARY CONDUITS WITH PULL STRINGS FROM EXISTING POWER POLE TO TRANSFORMER PRIMARY COMPARTMENT. PRIMARY CONDUIT SHALL BE INSTALLED AT A DEPTH OF 48" BELOW FINISHED GRADE. ALL 90° BENDS SHALL BE STEEL SWEEPING ELBOWS. ONCOR TO PROVIDE PRIMARY CONDUCTORS AND TERMINATIONS. CONTRACTOR SHALL CONTACT ONCOR FOR ALL SPECIFICATIONS AND STANDARDS.

(S5) CONTRACTOR SHALL PROVIDE AND INSTALL (2) 4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FROM PROPERTY LINE TO WITHIN 5'0" OF BUILDING WALL FOR UNDERGROUND TELEPHONE SERVICES. ALL 90° BENDS SHALL BE SWEEPING ELBOWS. CAP, STAKE, AND LABEL END OF CONDUIT. TO BE EXTENDED TO INTERIOR TERMINAL BOARD DURING BUILDING CONSTRUCTION BY CONTRACTOR. AT&T TO PROVIDE CABLE AND TERMINATIONS. REFER TO SHEET 0E01.01 "ELECTRICAL SITE PLAN" FOR CONDUIT AND SLEEVE ROUTING.

(S6) CONTRACTOR SHALL PROVIDE AND INSTALL PRIVATE 4" PVC DOMESTIC WATER SERVICE.

(S7) CONTRACTOR SHALL PROVIDE AND INSTALL 8" FIRE LINE (DR-14). SIZE OF LINE SHALL BE VERIFIED AND/OR MODIFIED BY SPRINKLER CONTRACTOR HYDRAULIC CALCULATIONS PRIOR TO INSTALLATION.

(S8) CONTRACTOR SHALL PROVIDE FIRE DEPARTMENT CONNECTION ON BUILDING.

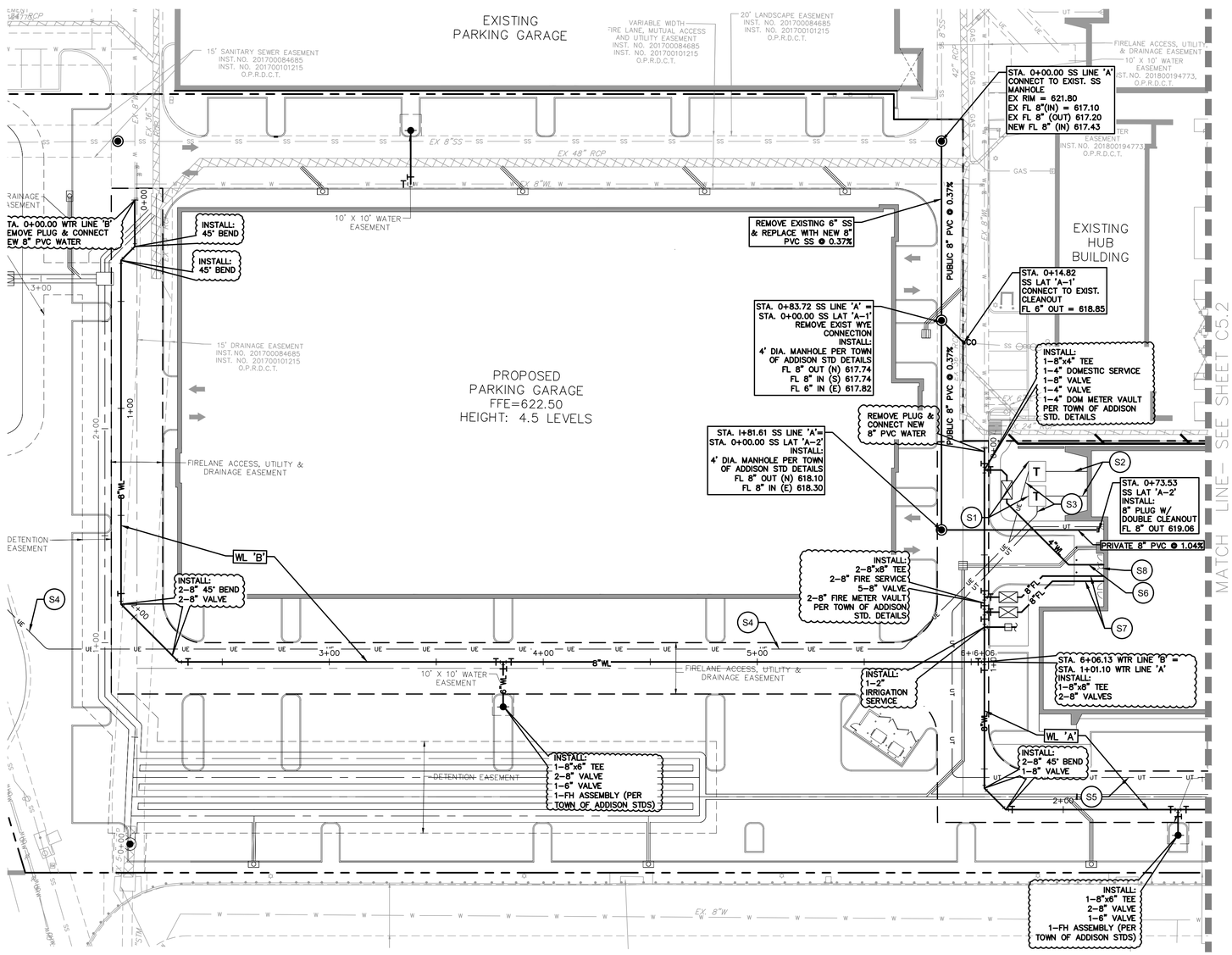
CAUTION !!

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. STANTEC IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

N

0 30' 60'

SCALE: 1" = 30'



GENERAL NOTES - UTILITIES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.1 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. **INSPECTION AND TESTING:** THE CONTRACTOR SHALL COORDINATE INSPECTION AND TESTING WITH THE APPROPRIATE GOVERNING AUTHORITIES PRIOR TO BACKFILLING TRENCHES FOR ALL UTILITIES.

3. **TRENCH COMPACTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TO A MINIMUM OF 95% STANDARD PROCTOR IN AREAS OF PROPOSED AND FUTURE PAVEMENT AND ALL AREAS EXCAVATED AT THE BUILDING FOOTINGS FOR UTILITY SERVICE ENTRIES. TRENCHES WHICH LIE OUTSIDE THESE AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR.

4. **CONFLICTS:** THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAIN OR SANITARY SEWER PIPING, THE CONTRACTOR SHALL ADJUST THE WATER LINE DOWNWARDS IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON THE PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED AND SO THAT ALL TCEQ REQUIRED CLEARANCES ARE MET.

5. **CONNECTION TO EXISTING UTILITIES:** THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, ELEVATION, CONFIGURATION, AND ANGULATION OF EXISTING WATER, SANITARY SEWER AND UTILITY LINES PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.

6. **WATER METERS:** THE CONTRACTOR SHALL ORDER BOTH DOMESTIC AND IRRIGATION METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE TOWN OF ADDISON TO HAVE METERS INSTALLED IN BOXES AND CONNECTING PUBLIC TO PRIVATE WATER LINES.

7. **PIPE COVER:** TOP OF ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 48".

8. **HORIZONTAL BLOCKING:** HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY, HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES 'STANDARD DETAILS'.

9. **THRUST BLOCKING:** THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS. DO NOT COVER BELLS OR FLANGES WITH CONCRETE. THE CONTRACTOR SHALL REMOVE EXISTING THRUST BLOCKING OR RESTRAINTS WHERE NECESSARY TO ALLOW THE WORK TO PROCEED, AND SHALL REPLACE THE THRUST BLOCKS WHERE REQUIRED. THE COST TO REMOVE, REPLACE OR PROVIDE THRUST BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

10. **ADDITIONAL BENDS:** THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKING AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS. THE CONTRACTOR MAY PULL PIPE AS NEEDED AT THE BENDS WHERE THE DEFLECTION ANGLE OF THE PIPE DOES NOT MATCH THE ANGLE OF THE BEND PROVIDED THE PIPE DEFLECTION IS WITHIN TOLERABLE MANUFACTURERS LIMITS. THE COST FOR ADDITIONAL BENDS AND BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

11. **POLYETHYLENE WRAP:** ALL VALVES, DUCTILE IRON AND CAST IRON PIPE, FITTINGS AND SPECIALS SHALL BE POLYETHYLENE WRAPPED.

12. **ADJUSTMENTS:** THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL MANHOLES, CLEANOUTS, VALVES, BOXES, VAULTS AND HYDRANTS TO FINAL GRADE. THE COST SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

13. **APPURTENANCES:** ALL VALVES AND OTHER APPURTENANCES ON ALL FIRE PROTECTION LINES SHALL BE UL/FM APPROVED. THE COST SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

14. **FIRE PROTECTION WORK:** ALL FIRE PROTECTION WORK MUST BE PERMITTED AND APPROVED BY THE GOVERNING AUTHORITIES FIRE DEPARTMENT. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED PRESSURE TESTS & BACTERIAL TESTS ON THE FIRE PROTECTION LINES TO THE SATISFACTION OF THE FIRE MARSHALL FOR THE GOVERNING AUTHORITY AS WELL AS THE DEVELOPERS' INSURANCE CARRIER.

15. **SANITARY SEWER PIPE:** ALL SEWER PIPE SHALL BE SDR-35, IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3034 FOR 4" THROUGH 15", AND ASTM F-879 FOR 15" THROUGH 27".

16. **WATER PIPE:** ALL PUBLIC WATER MAINS 4 INCH THROUGH 12 INCH SHALL BE C-900 (DR - 18).

UTILITY	UTILITY COMPANY CONTACTS:
ELECTRIC	ONCOR: KAREN EASTMAN (817) 355-7050
GAS	ATMOS: BRANDON BALL (972) 360-4428
WATER	TOWN OF ADDISON: JASON SHROYER (972) 450-2871
SANITARY	TOWN OF ADDISON: JASON SHROYER (972) 450-2871
TELEPHONE	AT&T: BRETT LAMM (972) 470-5916

BENCHMARKS:

REFERENCE BENCHMARK:
TOWN OF ADDISON CONTROL POINT NO. COA-14 LOCATED 1,730' SOUTH EAST FROM THE INTERSECTION OF LANDMARK PLACE AND LANDMARK BOULEVARD THEN 40.6' WEST OF STREET SIGN, 8.15' NORTH OF CHAINLINK FENCE AND 70.5' EAST OF STREET SIGN. ELEVATION = 623.19'

SITE BENCHMARK:
3-1/4" ALUMINUM DISK IN STAMPED "STANTEC" FOUND LOCATED APPROXIMATELY 1000' WEST FROM THE CENTERLINE OF THE SOUTHBOUND SERVICE ROAD OF THE DALLAS NORTH TOLLWAY, APPROXIMATELY 730' SOUTH FROM THE CENTERLINE OF LANDMARK BOULEVARD. POINT ALSO BEING THE SOUTHWEST CORNER OF SUBJECT TRACT.
ELEVATION = 616.60'

Stantec
TBPE # F-6324
TBPLS # 10194229
12222 Merit Drive, Suite 400
Dallas TX
www.stantec.com

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Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

Client/Project
CAWLEY PARTNERS

CAWLEY - FOURTEEN555 PHASE 2
14555 DALLAS PARKWAY
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

Title
UTILITY PLAN

Permit-Seal

PRELIMINARY
FOR REVIEW ONLY
Not for Construction or Permit Purposes
Stantec
Engineer JOSHUA A. MILLSAP
P.E. No. 100118 Date 02/12/2019

Project Number: 222011532
File Name: 11532_c2_001_up.dwg

RR	JM	JM	19.02.12
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No. C5.1
Revision ---- Sheet C5.1

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ORIGINAL SHEET - ANSI D