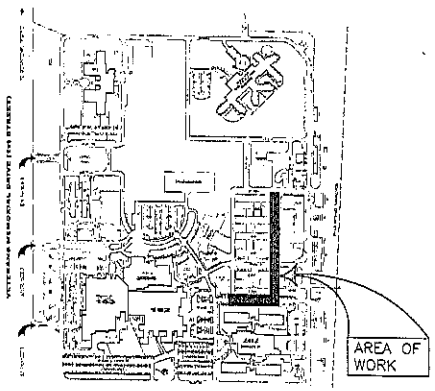
Department of Veterans Affairs

Central Texas Veterans Health Care System

Olin E. Teague Veterans' Center
Temple, Texas



SITE MAP

UNDERGROUND UTILITIES

Temple VAMC

DRAWING LIST

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MS-4.1	MECH STEAM DETAILS
MS-4.2	MECH STEAM DETAILS
MS-4.3	MECH STEAM DETAILS
MS-6.1	MECH STEAM DETAILS

No.	Date	By	Revisions

Architectural Edge Inc.
3010 Scott Blvd.
Suite 102
Temple, Texas
76504
254.771.2054 P
254.773.2144 F
•architecture
•design services
•consultation
email@archedge.com

REGISTERED ARCHITECT — STATE OF TEXAS — 14757
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Drawing Title: COVER SHEET	Project Title: UNDERGROUND UTILITIES		Date: 03/01/13
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			Dwg. 1 of

Veterans Affairs

VA Form 08-6231, FEB. 1982

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GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL MAKE AN EXAMINATION OF THE PROJECT SITE AND COMPLETELY FAMILIARIZE HIMSELF WITH THE NATURE AND EXTENT OF THE WORK TO BE ACCOMPLISHED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY WORK MADE NECESSARY BY UNUSUAL CONDITIONS OR OBSTACLES ENCOUNTERED DURING THE PROGRESS OF THE WORK, WHICH CONDITIONS OR OBSTACLES ARE READILY APPARENT UPON A VISIT TO THE SITE. IF THERE ARE ANY QUESTIONS IN THIS REGARD OR IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO SUBMISSION OF BIDS.
2. THE CONTRACTOR SHALL CONTACT ALL LOCAL UTILITIES COMPANIES AND ANY OTHER UTILITY COMPANY THAT SERVES THE AREA AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO VERIFY LOCATIONS OF EXISTING UTILITY LINES. THE FOLLOWING ARE THE TELEPHONE NUMBERS OF THE ENTITIES MOST LIKELY TO BE AFFECTED.

TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377
ONCOR	1-254-770-6210
CITY OF TEMPLE, TEXAS	1-254-298-5611
TIME WARNER CABLE	1-254-778-9441
CENTROVISION	1-254-773-1163
AT&T	1-800-252-1133
ATMOS	1-866-322-8667

3. PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF ANY WORK. IF THE EXISTING UTILITIES ARE IN ANY WAY DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER PROJECT REPRESENTATIVE AND THE PROJECT ENGINEER BEFORE PROCEEDING WITH ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO FIX DAMAGES INCURRED TO EXISTING UTILITIES DURING CONSTRUCTION.
4. CONTRACTOR SHALL MAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING UTILITIES. IF ANY DAMAGE OCCURS, TO EXISTING UTILITIES, DAMAGE IS TO BE REPAIRED IMMEDIATELY TO AT LEAST PREEXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS, WHEN UNALLOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING OR A BREAK IN THE LINE OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED. CONTRACTOR TO COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICE IN OPERATION.
6. ALL BARRICADES AND SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
7. WHERE NEW CONSTRUCTION TIES TO EXISTING FACILITIES, THE PROPER SAW CUT AND CONNECTION SHALL BE MADE USING GOOD WORKMANSHIP AND PROPER TRANSITION TECHNIQUES TO BE APPROVED BY THE ENGINEER.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND INSTALL ALL MATERIALS SO AS TO MEET OR EXCEED PROJECTS SPECIFICATIONS, STATE AND OWNER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING AND OBTAINING PERMITS FROM THE CITY, STATE, OR OTHER REGULATORY AGENCIES TO PERFORM WORK.
11. ALL DEMOLITION AND EXCAVATED MATERIALS SHALL BE LEGALLY DISPOSED OF OFF THE SITE, UNLESS OTHERWISE INSTRUCTED BY THE OWNER, OR BY THE OWNERS REPRESENTATIVE.
12. THE CONTRACTOR SHALL CONTACT THE ENGINEER, THE PROJECT INSPECTOR, AND THE OWNER 48 HOURS BEFORE COMMENCING CONSTRUCTION.
13. ALL CONSTRUCTION OPERATIONS TO BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). COPIES OF THE OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM OSHA, 903 SAN JACINTO, AUSTIN, TEXAS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ALL JOB SITE SAFETY, MANAGEMENT OF JOB SITE PERSONNEL, SUPERVISION OF THE USE OF JOB SITE EQUIPMENT AND DIRECTION OF ALL CONSTRUCTION PROCEDURES, METHODS AND ELEMENTS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
15. CONTRACTOR TO MAINTAIN ACCESS TO PUBLIC AND PRIVATE FACILITIES DURING CONSTRUCTION. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
16. BLASTING IS NOT PERMITTED ON THIS PROJECT.
17. CONTRACTOR SHALL TRANSITION NEW UTILITY CONSTRUCTION, SO AS TO MINIMIZE DAMAGE TO EXISTING VEGETATION, PLANTER BEDS, UTILITIES, SIDEWALKS, AND ROADWAYS. TRANSITIONS SHALL BE APPROVED BY OWNER OR ENGINEER.
18. CONTRACTOR SHALL AVOID CUTTING AND/OR TRIMMING OF EXISTING TREES. EXISTING TREE TRIMMING SHALL BE IMPLEMENTED ONLY UNDER THE DIRECT SUPERVISION OF THE PROJECT INSPECTOR.
19. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING SANITARY SEWER SERVICES LOCATED WITHIN THE PROJECT LIMITS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL AREAS DISTURBED BY CONSTRUCTION FOR A PERIOD EQUAL TO, BUT NOT EXCEEDING, 12 MONTHS FROM SUBSTANTIAL COMPLETION.
21. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITY SERVICES PRIOR TO THE START OF CONSTRUCTION. THE OWNER SHALL NOT COMPENSATE ANY WORK PERFORMED TO REPAIR UTILITY SERVICES DAMAGED BY CONSTRUCTION.
22. ALL ADDITIONAL PIPING NEEDED TO PROVIDE/ENSURE TEMPORARY POTABLE WATER SERVICES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
23. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE EXCESS SPOILS AND MATERIAL DISTURBED BY CONSTRUCTION.
24. ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED BY THE CONTRACTOR THAT ARE NOT A PART OF THIS CONTRACT ARE TO BE REPAIRED BY THE CONTRACTOR TO AT LEAST THE PRE-EXISTING CONDITION, AT HIS EXPENSE, BEFORE ACCEPTANCE OF THE WORK.
25. CONSTRUCTION SPOILS OR MATERIALS TO BE USED FOR PROPOSED CONSTRUCTION, SHALL NOT BE STOCKPILED OR STORED WITHIN 100 YEAR FLOOD PLAIN.
27. THE CONTRACTOR SHALL RESTORE, TO ORIGINAL CONDITION, ALL LAWNS AND LANDSCAPING DISTURBED BY CONSTRUCTION.
28. CONTRACTOR TO PROVIDE ADEQUATE TRENCH SHORING PER LATEST OSHA STANDARDS.
29. NEW SANITARY MAIN AND SERVICES SHALL BE CONSTRUCTED PER THE LATEST TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARDS AND SPECIFICATIONS AND PLUMBING CODES.
30. CONTRACTOR SHALL INSTALL ALL PIPES, MANHOLES, AND CONNECTIONS AS SHOWN ON THE DRAWINGS. UNLESS SITE CONDITIONS REVEAL EXISTING LATERAL LOCATIONS, PIPE INVERT ELEVATIONS AND SLOPES, AND OTHER SEWER SYSTEM CONDITIONS THAT DISAGREE WITH CONDITIONS AS SHOWN ON DRAWINGS. IF SUCH CONDITIONS ARE DISCOVERED, CONTRACTOR SHALL IMMEDIATELY CONSULT WITH ENGINEER AND THE OWNER PROJECT REPRESENTATIVE TO DISCUSS ANY REQUIRED ALTERATIONS TO THE CONSTRUCTION PLANS AS SHOWN ON THE DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW BERMUDA GRASS VIA HYDROMULCH GRASS SEEDING AT ALL AREAS DISTURBED BY CONSTRUCTION WHICH DO NOT RECEIVE NEW PAVEMENT REPLACEMENT.
32. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPLUS MATERIALS FROM EXCAVATION INCLUDING ROCK, DIRT, TRASH, ETC. SHALL BE PROPERLY DISPOSED OF AT AN APPROVED SITE WITHIN THE CITY LIMITS. IF THE LOCATION IS NOT WITHIN THE CITY LIMITS, THE CONTRACTOR SHALL PROVIDE A LETTER STATING SO. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAY WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER AND THE CITY'S FLOOD PLAIN ADMINISTRATOR. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THE AREAS WITHOUT PERMISSION, THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL, AND THE CONTRACTOR SHALL REMOVE MATERIAL AT THE CONTRACTOR'S OWN COST.
33. THE INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION MEASURES SHALL BE CONTRACTOR'S RESPONSIBILITY THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL USE A SILT FENCE, OR OTHER METHOD APPROVED BY THE ENGINEER, TO CONTAIN SEDIMENT AND WASTE CONSTRUCTION MATERIAL ON-SITE. SILT FENCE SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE PROJECT.
34. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION. THE OWNER MAY DIRECT THE CONTRACTOR TO REMOVE MUD AND DEBRIS FROM THE STREETS ASSOCIATED WITH THE PROJECT AT NO CHARGE TO THE OWNER.
36. ALL DEBRIS, TRASH, AND BRUSH PILES WITHIN PROJECT SITE SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

GENERAL SURVEY NOTES

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO RECHECK THE EXISTING TOPOGRAPHIC INFORMATION FOR THE ENTIRE PROJECT AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING OF CONSTRUCTION.
2. CONTRACTOR SHALL LOCATE, PROTECT AND MAINTAIN BENCHMARKS, MONUMENTS AND CONTROL POINTS. RE-ESTABLISHMENT OF DISTURBED OR DESTROYED ITEMS SHALL BE ACCOMPLISHED BY A TEXAS REGISTERED PROFESSIONAL LAND SURVEYOR AT NO COST TO THE OWNER.
3. CONSTRUCTION LAYOUT AND STAKING TO BE PROVIDED AT THE CONTRACTORS EXPENSE.

WALKWAY, MARKING, AND SIGNAGE NOTES

1. ALL PEDESTRIAN WALKWAYS UTILIZED FOR DISABLED ACCESS ROUTE SHALL CONFORM TO LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE "STATE OF TEXAS PROGRAM FOR THE ELIMINATION OF ARCHITECTURAL BARRIERS", "TEXAS ACCESSIBILITY STANDARDS" (TAS) AND THE "AMERICANS WITH DISABILITIES ACT OF 1990" (ADA)
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CITY PERMITS AND NOTIFY THE APPROPRIATE AGENCIES PRIOR TO CONSTRUCTING PUBLIC SIDEWALKS.
3. UNLESS REQUIRED OTHERWISE BY CITY REGULATIONS, ALL WALKWAYS SHALL BE CONSTRUCTED OF MINIMUM 3000 PSI CONCRETE AND A MINIMUM CEMENT CONTENT OF 5.0 SACKS PER CUBIC YARD. ALL SIDEWALKS SHALL BE REINFORCED WITH A MINIMUM OF #3 BARS AT 18-INCH CENTERS EACH WAY LOCATED AT THE CENTER OF THE THICKNESS. THE STEEL SHALL BE PLACED ON CHAIR SUPPORTS BEFORE CONCRETE PLACEMENT, IF NECESSARY DURING CONCRETE PLACEMENT, THE STEEL SHALL BE PULLED UP TO INSURE THE PROPER LOCATIONS OF REINFORCEMENT.
4. WALKWAYS SHALL BE CONSTRUCTED TO THE LINE AND GRADE INDICATED ON THE PLANS OR THE TYPICAL LOCATIONS SHOWN ON THE PAVING PLANS IN RELATIONS TO PROPOSED CURB, SEE PAVEMENT NOTE #1 ABOVE.
5. CONSTRUCT SIDEWALKS PER VETERANS ADMINISTRATION REQUIREMENTS AND PROJECTS DETAILS
6. FORMS SET FOR SIDEWALKS SHALL BE TRUE TO LINE AND GRADE AND SHALL PROVIDE A SLOPE OF ¼ INCH PER FOOT ACROSS THE SIDEWALK UNLESS INDICATED OTHERWISE ON THE PLANS. FORMS SHALL BE SET TO PROVIDE FOR A FULL DEPTH OF CONCRETE INDICATED ON THE PLANS AND FORM WORK. THE CONTRACTOR SHALL IMMEDIATELY BACKFILL THE EDGES OF THE WALK FOR A MINIMUM OF ONE FOOT (1') EACH SIDE OF THE WALK.
7. 24-INCH BY 3/4 INCH DIAMETER DOWELS WITH FIVE INCH BY 13/16-INCH DOWEL SLEEVE SHALL BE INSTALLED ON 18-INCH CENTERS, ALONG WITH REDWOOD EXPANSION BOARD AND SEALING COMPOUND AS PER STANDARD EXPANSION JOINT DETAIL SHEET ALONG PERIMETER OF WHEEL CHAIR RAMP AND SIDEWALK.
8. PROVIDE 15-INCH MINIMUM LAP BETWEEN REINFORCING STEEL IN STREET AND REINFORCING STEEL IN WHEEL CHAIR RAMP.
9. SUBGRADE FOR WALKWAYS ABUTTING CURBS, WITHIN PARKING ISLAND AREAS OF BETWEEN THE PARKING AREA AND THE BUILDING, SHALL BE PLACED ON COMPACTED FILL OR FIRM COMPACTED EXCAVATED GRADE. FILLS FOR SIDEWALKS SHALL CONFORM TO THE SAME REQUIREMENTS AS CONTROLLED DENSITY FILLS IN PARKING AREAS WITH THE COMPACTED MATERIAL EXTENDING A MINIMUM 18 INCHES BEYOND THE WALKWAY.
10. JOINT SEALING MATERIAL UTILIZED IN WALKWAY AREAS BETWEEN THE PARKING AREA AND THE BUILDING FOR EXPANSION JOINTS SHALL CONSIST OF "POURTHANE" MANUFACTURED BY W.R. MEADOWS, INC. OR EQUAL. THIS INCLUDES WALKWAYS ABUTTING PERIMETER PARKING IN FRONT OF BUILDINGS.
11. FOR WALKWAYS SIX FEET IN WIDTH OR LESS, GROOVED OR SAWED CONTRACTION JOINTS SHALL BE MADE AT UNIFORM INTERNALS EQUAL TO THE WIDTH OF THE SIDEWALK. ON WALKWAYS GREATER THAN SIX FEET IN WIDTH CONTRACTION JOINTS SHALL BE SAWED. CONTRACTION JOINTS SHALL ONLY BE FILLED WHERE CONCENTRATED RUNOFF OCCURS IN PARKING AREAS, ENTRANCES AND WALKWAYS AT THE BUILDING. SEAL PARKING LOT CONCENTRATED RUNOFF AREAS SAME AS PARKING PAVEMENT. SEAL WALKWAYS WITHIN 50 FEET OF BUILDING WITH "DECK-O-SEAL" AS MANUFACTURED BY W.R. MEADOWS OR EQUAL.
12. CONCRETE FINISH SHALL BE BROOMED FOR ALL WALKWAY AREAS LESS THAT SIX FEET IN WIDTH AND MINOR ACCESS ROUTES GREATER THAN EIGHT FEET IN WIDTH. ALL HANDICAP ACCESS RAMPS SHALL HAVE SURFACE TEXTURE FINISH COMPLYING WITH ADA AND TAS GUIDELINES.
13. JOINT SEALING MATERIAL FOR WALKWAY AND EXPANSION JOINTS IN THE INTERNAL PARKING AREAS AND EXTERNAL OPEN AREAS SHALL BE "HI SPEC" MANUFACTURED BY W.R. MEADOWS OR EQUAL.
14. CLEAN ALL JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION PRIOR TO SEALING.
15. ALL SIGNS, PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
16. ALL PAVEMENT MARKINGS SHALL BE SHALL BE FOUR INCHES WIDE COLOR WHITE UNLESS INDICATED OTHERWISE ON THE DRAWINGS, STRIPING TO BE TWO COATS OF PAINT. SECOND COAT TO THE APPLIED IMMEDIATELY PRIOR TO THE BUILDING OPENING.
17. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON PLANS.
18. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.

UTILITY COORDINATION AND PROTECTION NOTES:

1. UTILITY INFORMATION SHOWN ON THE PLANS MUST BE CONFIRMED BY ACTUAL FIELD AND FIELD EXCAVATION CHECK IN ADVANCE OF CONSTRUCTION.
2. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REPORT ALL UTILITY CONFLICTS TO THE ENGINEER PROMPTLY IN ORDER TO AVOID UNNECESSARY DELAYS, AND THE CONTRACTOR WILL COOPERATE WITH UTILITY OWNERS IN MAKING THE ADJUSTMENTS(S). CONFLICTS THAT ARE FOUND DURING CONSTRUCTION WILL BE RESOLVED AS EXPEDITIOUSLY AS POSSIBLE.
3. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE ALL APPURTENANCES AND EQUIPMENT TO PROTECT ADEQUATELY ALL UTILITY-OWNED FACILITIES FROM DAMAGE OR DISPLACEMENT BY ITS OPERATIONS.
4. THE ADJUSTMENT OR LOCATION OF ANY UTILITY-OWNED FACILITY WHICH THE CONTRACTOR MAY DESIRE FOR ITS OWN CONVENIENCE OR EASE OF CONSTRUCTION WILL BE ITS RESPONSIBILITY TO COORDINATE AND WILL AT ITS OWN EXPENSE.
5. THE CONTRACTOR AND OWNER MUTUALLY, EXPRESSLY AGREE THAT THE FAILURE OF THE OWNER TO SHOW ANY EXISTING, MAN-MADE SURFACE OR SUBSURFACE STRUCTURE, FACILITY OR APPURTENANCE, ON THE PLANS, OR THE FAILURE TO SHOW THEM ON THE PLANS IN THEIR EXACT LOCATIONS, SHALL NOT BE CONSIDERED AS A BASIS OF A CLAIM FOR EXTRA WORK, DAMAGES OR OTHER COMPENSATION OF ANY KIND, NOR SHALL IT BE CONSIDERED AS A BASIS FOR INCREASING THE QUANTITIES OF WORK OR UNIT PRICES ON ANY BID ITEM.
6. UTILITY TIE-INS AND CONNECTIONS SHALL BE MADE DURING WEEKENDS ONLY AND NOT DURING WEEKDAYS. PRIOR TO CONSTRUCTION, COORDINATE WITH THE VA PROJECT REPRESENTATIVE.

3-1-13

MONTY L. CLARK 90894 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

No.	Date	By	Revisions

Architectural Edge Inc.
3010 Scott Blvd. Suite 102 Temple, Texas 76504
254.771.2054 P 254.773.2144 F
•architecture •design services •consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0899 www.clark-fuller.com F-10384

Drawing Title: CONSTRUCTION NOTES SHEET 1	Project Title: UNDERGROUND UTILITIES		Date: 3/1/13
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF	Building Number: SITE	Checked: MLC / Drawn: DGR	Project No. 674-10-101
Approved: Project Manager: VICTOR GAW, P.E.	Location: TEMPLE VAMC – TEMPLE, TEXAS		Drawing No. C1.1 — Dwg. 1 of 28

Veterans Affairs

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GENERAL GRADING AND DRAINAGE NOTES:

1. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGES BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

2. NEW FINISHED CONTOURS SHOWN ARE TOP OF PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED.

3. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEEDED SHALL RECEIVE MINIMUM FOUR (4) INCHES OF TOPSOIL (OR TO DEPTH INDICATED ON LANDSCAPE PLANS). THIS TOPSOIL TO BE PLACED AND LEVELED BY THE GRADING CONTRACTOR. THIS MATERIAL MAY BE STOCKPILED DURING STRIPPING OPERATIONS.

4. ROUGH GRADING ELEVATIONS SHALL BE AS FOLLOWS:

FOUR INCHES BELOW FINISHED CONTOURS IN SEEDED AREAS. SIX INCHES BELOW FINISHED CONTOURS IN PAVED AREAS, UNLESS OTHERWISE NOTED. (REFER TO PROJECT GRADING PLAN AND DETAILS TO DETERMINE DEPTHS)

5. GRADING CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERATION OF OR RELOCATION OF THE FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES IN CONFORMANCE WITH CITY STANDARDS.

6. GRADING CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER AND TIMELY COMPLETION OF THIS PROJECT.

7. FOR THE WORK ON THE STATE OR CITY RIGHT-OF-WAY, THE GRADING CONTRACTOR SHALL:

A. NOT STORE MATERIAL, EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT, IN CASE OF MULTI LANE HIGHWAYS, IN THE MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT OF WAY.

B. SHALL PROVIDE ALL NECESSARY AND ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES AND FLAGMEN AS REQUIRED BY THE LOCAL AUTHORITIES AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE GRADING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HOLD HARMLESS THE TEXAS DEPARTMENT OF TRANSPORTATION, THE CITY, AND THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES OR TO THE TRAVELING PUBLIC.

C. SHALL COMPLETE THE WORK TO THE SATISFACTION OF THE CITY PUBLIC WORKS DEPARTMENT, ENGINEERING OFFICE, AND /OR OWNER.

8. GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNERS REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

9. REFER TO PAVING DETAILS FOR TYPE OF PAVING AND BASE TO BE USED.

10. GRADING CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS, OR TREES REMAINING IN THE SITE, UNLESS NOTED OTHERWISE ON PLANS AND SHALL COORDINATE WITH GENERAL CONTRACTOR.

11. GRADING CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION CONTROL.

12. A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING ON-SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATIONS.

13. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY GRADING CONTRACTOR.

14. ALL AREAS NOT COVERED BY THE BUILDING, PAVING OR PLANNED LANDSCAPING, SHALL BE GRASSED.

15. TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES AND SHALL REMOVE SILT FROM BERM DITCHES SILT DAMS AND SILT FENCES AS NEEDED.

16. ALL DISTURBED AREAS SHALL BE HYDROMULCHED SEEDED UNLESS OTHERWISE NOTED.

17. THE CONTRACTOR SHALL PREVENT SOIL STABILIZATION TREATMENT FROM LEAVING THE SITE BY WAY OF STORM WATER RUNOFF WHICH MAY DAMAGE DOWNSTREAM WATER COURSES, LAKES OR PONDS. ANY DAMAGE TO WILDLIFE OR FISH KILLS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.

18. ALL SITE GRADING AND EARTHWORK CONSTRUCTION SHALL COMPLY TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.

19. WHEN TOPSOIL IS SPREAD, THE TOPSOIL MUST BE PROTECTED FROM RUNOFF IMMEDIATELY. ALL DOWNSTREAM SILTING WILL REQUIRE CLEANUP AFTER RAIN EVENTS.

WATERLINE NOTES:

1. WATERLINE SEPARATION DISTANCES FROM EXISTING SANITARY SEWER SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.

2. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE LATEST TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARDS AND SPECIFICATIONS.

3. ALL CONNECTIONS TO EXISTING WATER MAINS SPECIFIED WITHIN CONTRACT DRAWINGS SHALL BE PROVIDED VIA TAPPING SLEEVE AND VALVE SIZED OF THE EXISTING WATERLINE. THE CONNECTION SHALL INCLUDE ALL INCIDENTAL EQUIPMENT AND MATERIALS AS REQUIRED TO PERFORM THE TAP.

4. WATER LINES TO BE LAID TO THE FOLLOWING MINIMUM DEPTHS: 42 INCHES BELOW FINISHED GRADE. TOP OF VALVE STEMS TO BE 18 INCHES TO 36 INCHES BELOW FINISHED GRADE.

5. PRESSURE TAPS TO BE IN ACCORDANCE WITH THE APPLICABLE TECHNICAL SPECIFICATIONS. CONTRACTOR TO DO ALL EXCAVATIONS ETC., ALSO FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. IF A PRIVATE CONTRACTOR MAKES THE TAP, A OWNER INSPECTOR MUST BE PRESENT. CONCRETE BLOCKING TO BE PLACED BEHIND AND UNDER ALL TAP SLEEVES IN A MINIMUM OF 24 HOURS AFTER MAKING THE TAP.

6. ALL CONNECTIONS TO EXISTING WATER MAIN SPECIFIED WITHIN CONTRACT DRAWINGS SHALL BE PROVIDED VIA TAPPING SLEEVE AND VALVE SIZED TO THE APPROPRIATE SIZE OF THE EXISTING WATERLINE. THE CONNECTION SHALL INCLUDE ALL INCIDENTAL EQUIPMENT AND MATERIALS AS REQUIRED TO PERFORM THE TAP.

7. WATER LINE TESTING AND STERILIZATION TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE TECHNICAL SPECIFICATIONS. THIS WORK IS SUBSIDIARY TO FURNISHING AND INSTALLING WATERLINES

8. ABOVE GROUND PORTION OF FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION ARE TO BE WRAPPED IN POLYETHYLENE BAG OR ENVELOPE TAPE INTO PLACE, WHICH IS TO BE REMOVED BY THE CONTRACTOR WHEN THE MAINS ARE ACCEPTED AND PLACED IN SERVICE.

9. ALL WATER LINE FITTINGS AND BENDS ARE TO BE DUCTILE IRON UNLESS NOTED OTHERWISE.

10. ALL UNDERGROUND DUCTILE IRON PIPE AND FITTINGS TO BE WRAPPED WITH MINIMUM OF 8 MILLIMETER THICKNESS POLYETHYLENE WRAP APPROVED BY THE DUCTILE IRON PIPE ASSOCIATION.

11. CONTRACTOR TO PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURES.

12. DO NOT EXCEED MANUFACTURE'S RECOMMENDATION FOR CURVATURE OF LINES AND/OR DEFLECTION OF PIPE JOINTS.

13. CONTRACTOR TO PROVIDE PIPE MANUFACTURE'S PLUGS OR CAPS AT ALL PIPE STUB-OUTS ON WATER LINES NOT CONNECTING TO OTHER LINES. REMOVE PLUGS OR CAPS AND CONNECT TO EXISTING LINES WHERE SHOWN ON PLANS.

14. WHERE A NEW WATERLINE CROSSES WITHIN 18 INCHES UNDER A STORM WATER PIPE OR DITCH, THE WATER LINES SHALL BE CONCRETE ENCASED FOR AT LEAST 12 INCHES OUTSIDE EACH SIDE OF THE STORM WATER PIPE TRENCH OR DITCH.

15. IT IS THE CONTRACTORS RESPONSIBILITY FOR PAYING ANY TAPPING COSTS OR ADDITIONAL FEES REQUIRED BY THE OWNER TO PROVIDE NEW UTILITY SERVICES.

16. WHERE A NEW POTABLE WATERLINE CROSSES AN EXISTING, NON PRESSURE RATED WASTEWATER LINE, ONE SEGMENT OF THE WATER LINE PIPE SHALL BE CENTERED OVER THE WASTEWATER LINE SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST 9' HORIZONTALLY FROM THE CENTERLINE OF THE WASTEWATER LINE. THE POTABLE WATERLINE SHALL BE AT LEAST 2' ABOVE THE SEWER LINE.

17. AT LOCATIONS WHERE MECHANICAL JOINT FITTINGS AND/OR VALVES ABUT, THE CONTRACTOR SHALL PROVIDE FOSTER MECHANICAL JOINT ADAPTERS, OR PRE-APPROVED EQUAL, PER OWNER REQUIREMENTS.

18. MECHANICAL JOINT ADAPTERS TO BE INSTALLED PER MANUFACTURERS CRITERIA AND SHALL BE ADEQUATE TO WITHSTAND OPERATING TEST PRESSURES.

19. THE CONTRACTOR SHALL PROVIDE CONCRETE THRUST BLOCKING AND MEGA LUG JOINT RESTRAINT, OR PRE-APPROVED EQUAL.

20. ALL PRODUCTS ARE TO BE USA DOMESTIC ONLY.

TRENCH SAFETY NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A TRENCH SAFETY PLAN WHICH COMPLIES WITH STATE LAWS AND FEDERAL REGULATIONS RELATING TO TRENCH SAFETY, INCLUDING THOSE WHICH MAY BE ENACTED DURING THE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR SHALL FURNISH PROJECT ARCHITECT WITH 6 BOUND COPIES OF TRENCH SAFETY PLAN FOR DISTRIBUTION AND APPROVAL.

2. THE CONTRACTOR SHALL FULLY COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS PERTAINING TO EXCAVATIONS, TRENCHING, AND SHORING AND SHALL PROVIDE AND FAMILIARIZE ITS EMPLOYEES INVOLVED IN EXCAVATION AND TRENCHING WITH THE PROVISIONS IN OSHA PAMPHLET NUMBER 2226, EXCAVATION AND TRENCHING OPERATIONS.

3. CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER, IT OFFICERS, SERVANTS, AGENTS AND EMPLOYEES, COMPLETELY HARMLESS FROM ANY CLAIMS, LAWSUITS, JUDGMENTS, COSTS AND EXPENSES (INCLUDING ATTORNEY'S FEES, IF ANY) FOR ANY PERSONAL INJURY (INCLUDING DEATH), PROPERTY DAMAGE OR OTHER HARM FOR WHICH RECOVERY OF DAMAGES IS SOUGHT (INCLUDING ANY INJURY, DEATH, OR DAMAGE SUFFERED BY THE CONTRACTOR'S OWN EMPLOYEES) ARISING OUT OF OR OCCASIONED BY THE USE OF ANY TRENCH EXCAVATION PLANS, REGARDLESS OF THEIR ORIGIN, OR BY ANY NEGLIGENT, GROSSLY NEGLIGENT, STRICTLY LIABLE OR INTENTIONAL ACT OF THE CONTRACTOR, A SUBCONTRACTOR OR ANY INDIVIDUAL EMPLOYEE OR LABORER (WHETHER OR NOT AN EMPLOYEE OF THE CONTRACTOR OR A SUBCONTRACTOR) IN THE PERFORMANCE OR SUPERVISION OF ACTUAL TRENCH EXCAVATION UNDER THE CONTRACT. THIS INDEMNITY APPLIES REGARDLESS OF WHETHER OWNER'S OR CONSULTING ENGINEER'S NEGLIGENCE OR FAULT IN THE ADMINISTRATION OF THIS CONTRACT OR IN THE PREPARATION, REVIEW OR APPROVAL OF THE OWNER'S OR CONTRACTOR'S TRENCH EXCAVATION PLAN CONTRIBUTED TO THE INJURY, DEATH OR DAMAGE. OWNER ACCEPTS NO LIABILITY WHATSOEVER AS A RESULT OF ITS PREPARATION, REVIEW OR APPROVAL OF ANY TRENCH EXCAVATION PLAN UNDER THIS CONTRACT; OWNER MAKES NO WARRANT, EXPRESS OR IMPLIED, CONCERNING THE ADEQUACY OR CORRECTNESS OF ANY TRENCH EXCAVATION PLAN.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE OWNER AN ACCEPTABLE TRENCH SAFETY PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER QUALIFIED TO DO SUCH WORK AND LICENSED/REGISTERED IN THE STATE OF TEXAS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AN APPROPRIATE METHOD OF PROVIDING TRENCH SAFETY AFTER DUE CONSIDERATION OF THE JOB CONDITIONS, LOCATION OF UTILITIES, PAVEMENT CONDITIONS AND OTHER RELEVANT FACTORS.

6. SLOPE-BACK METHODS WHICH MAY RESULT IN UNNECESSARY DISPLACEMENT OF UTILITIES AND/OR DESTRUCTION OF PAVEMENT SHALL NOT BE USED WITHOUT PERMISSION FROM THE OWNER.

7. PLANS FOR DEVICES USED TO PROVIDE TRENCH SAFETY SUCH AS TRENCH SHIELDS AND SHORING SYSTEMS WILL BE LIKEWISE CERTIFIED BY PROFESSIONAL ENGINEERS LICENSED/REGISTERED IN THE STATE OF TEXAS OR BY A PROFESSIONAL ENGINEER LICENSED/REGISTER IN THE STATE OF MANUFACTURE OF THE SHIELD OR SHORING SYSTEM.

8. THE SIDES OF ALL EXCAVATION SHALL BE SUPPORTED IN ACCORDANCE WITH THE TRENCH SAFETY PLAN. WHERE BRACING OR SHEETING AND BRACING ARE USED, THE TRENCH WIDTH SHALL BE INCREASED ACCORDINGLY, SHALL BE CONSIDERED AS INCIDENTAL WORK, AND SHALL NOT BE PAID FOR AS A SEPARATE ITEM.

9. IN WET, SATURATED OR FLOWING MATERIALS WHERE IT IS NECESSARY TO INSTALL TIGHT SHEETING OR COFFERDAMS, WOOD OR STEEL SHEET PILING OF A DESIGN AND TYPE APPROVED BY THE OWNER SHALL BE USED.

10. ALL SHEETING, SHORING AND BRACING SHALL HAVE SUFFICIENT STRENGTH AND RIGIDITY TO WITHSTAND THE PRESSURE EXERTED, TO MAINTAIN THE SIDES OF THE EXCAVATION PROPERLY IN PLACE, AND TO PROTECT ALL PERSONS OR PROPERTY FROM INJURY OR DAMAGE.

11. WHEN EXCAVATIONS ARE MADE ADJACENT TO EXISTING BUILDINGS OR OTHER STRUCTURES OR IN PAVED STREETS, PARTICULAR CARE SHALL BE TAKEN TO ADEQUATELY SHEET, SHORE AND BRACE THE SIDES OF THE EXCAVATION TO PREVENT UNDERMINING OF OR SETTLEMENT BENEATH THE STRUCTURES OR PAVEMENT. UNDERPINNING OF ADJACENT STRUCTURES OR PAVEMENT SHALL BE DONE AT THE CONTRACTOR'S OWN COST AND EXPENSE AND IN A MANNER SATISFACTORY TO THE OWNER, OR, WHEN REQUIRED BY THE OWNER, THE PAVEMENT SHALL BE REMOVED, THE VOID SATISFACTORILY FILLED, COMPACTED AND THE PAVEMENT REPLACED BY THE CONTRACTOR. THE ENTIRE EXPENSE OF SUCH REMOVAL AND SUBSEQUENT REPLACEMENT THEREOF SHALL BE BORNE BY THE CONTRACTOR.

12. WOODEN SHEETING, SHORING AND BRACING SHALL BE LEFT IN PLACE WHERE IT IS ADJACENT TO THE PIPE EMBEDMENT FOR THE INITIAL LIFT OF BACKFILL.

13. THE REMOVAL OF ALL SHEETING, SHORING AND BRACING SHALL BE DONE IN SUCH MANNER AS NOT TO ENDANGER OR DAMAGE EITHER NEW OR EXISTING STRUCTURES, OR PRIVATE OR PUBLIC PROPERTIES; AND SO AS TO AVOID CAVE-INS OR SLIDING OF THE BANKS.

14. ALL HOLES OR VOIDS LEFT BY THE REMOVAL OF THE SHEETING, SHORING OR BRACING SHALL BE IMMEDIATELY AND COMPLETELY FILLED AND COMPACTED WITH SUITABLE MATERIALS. IF, FOR ANY REASON, THE CONTRACTOR, WITH THE APPROVAL OF THE OWNER, ELECTS TO LEAVE IN PLACE THE SHEETING, SHORING OR BRACING, NO PAYMENT SHALL BE ALLOWED FOR SUCH MATERIAL LEFT IN PLACE UNLESS ORDERED BY THE OWNER TO BE LEFT IN PLACE.

15. THE CONTRACTOR SHALL CAUSE ALL SHORING OR BRACING TO BE INSPECTED BY AN OSHA COMPETENT PERSON, ACCORDING TO OSHA REGULATIONS. A COMPETENT PERSON IS DEFINED AS ONE WHO IS CAPABLE OF IDENTIFYING EXISTING AND PREDICTABLE HAZARDS IN THE SURROUNDINGS, OR WORKING CONDITIONS, WHICH ARE UNSANITARY, HAZARDOUS, OR DANGEROUS TO EMPLOYEES, AND WHO HAS AUTHORIZATION TO TAKE PROMPT CORRECTIVE MEASURES TO ELIMINATE THEM.

3-1-13

MONTY L. CLARK 80084 LICENSED PROFESSIONAL ENGINEER

No.	Date	By	Revisions

Architectural Edge Inc.
3010 Scott Blvd. Suite 102 Temple, Texas 76504
254.771.2054 P 254.773.2144 F
• architecture • design services • consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0694 www.clark-fuller.com F-10464

Drawing Title: CONSTRUCTION NOTES SHEET 2
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF
Approved: Project Manager: VICTOR GAW, P.E.
Project Title: UNDERGROUND UTILITIES
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Veterans Affairs

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LANDSCAPING, TOPSOIL, SEEDING, SODDING, AND FERTILIZER NOTES:

1. SPECIFICATIONS AND REQUIREMENTS BY LANDSCAPE ARCHITECT SHALL SUPERCEDE SPECIFICATIONS AND NOTES PROVIDED ON CIVIL ENGINEERING PLANS.

REMOVAL, PROTECTION, AND REPLACEMENT OF TREES, SHRUBBERY, PLANTS, SOD, AND OTHER VEGETATION

1. NO TREES SHALL BE REMOVED UNLESS SO NOTED ON THE PLANS OR UPON THE SPECIFIC APPROVAL OF THE OWNER.

2. WHERE TREES, PLANTS, SHRUBBERY, ETC., ARE ADJACENT TO THE LINE OF THE WORK AND ARE NOT TO BE REMOVED OR ARE DESIGNATED ON THE PLANS TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL PROTECT SUCH TREES, PLANTS, SHRUBBERY, ETC. BY SUBSTANTIAL WOODEN BOXES AND GUARDS AND SHALL NOT PERMIT MACHINERY OR EMPLOYEES TO SCRAPE, TEAR THE LIMBS FROM, DAMAGE OR ATTACH GUY CABLES TO THEM.

3. IF, IN THE OPINION OF THE OWNER, SUCH TREES, PLANTS, SHRUBBERY, ETC., WOULD BE DAMAGED BY MACHINERY, ETC., HAND EXCAVATION MAY BE REQUIRED.

4. WHERE SOD, SHRUBBERY, PLANTS, ETC., ARE REMOVED IN MAKING THE EXCAVATION, SUCH AREAS SHALL HAVE THE SAME SOD, SHRUBBERY, PLANTS, ETC., OF THE SAME KIND AND IN GOOD CONDITION, REPLACED IN THEIR PRIOR POSITIONS.

5. ALL EXCAVATED MATERIAL WHICH IS SUITABLE FOR TOPSOIL SHALL BE USED BEFORE ANY TOPSOIL IS OBTAINED FROM A BORROW SOURCE.

6. APPROVED TOPSOIL SHALL BE A MINIMUM THICKNESS OF 6-INCHES UNLESS OTHERWISE SPECIFIED ON THE PLANS, AND SHALL BE PLACED ON AREAS FORMED TO THE LINE AND GRADE SPECIFIED IN THE PLANS.

FERTILIZER:

7. FERTILIZER SHALL BE A COMMERCIAL PRODUCT, UNIFORM IN COMPOSITION, FREE FLOWING, WITH UNIFORM PARTICLE SIZE, MINIMAL DUST, AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT.

8. FERTILIZER MAY BE A NATURAL ORGANIC, SYNTHETIC ORGANIC OR INORGANIC FERTILIZER.

9. ALL FERTILIZER USED SHALL BE DELIVERED IN ORIGINAL BAGS OR CONTAINERS CLEARLY LABELED TO SHOW ANALYSIS OF THE CONTENTS. FERTILIZER SHALL BE IN GOOD PHYSICAL CONDITION. FERTILIZER WHICH HAS BEEN EXPOSED TO HIGH HUMIDITY AND MOISTURE OR HAS BECOME CAKED OR OTHERWISE DAMAGED, MAKING IT UNSUITABLE FOR USE, SHALL BE REJECTED.

10. FERTILIZER ANALYSIS SHALL BE BASED ON SOIL TEST RESULTS AND THE NITROGEN REQUIREMENTS FOR THE TURFGRASS SPECIFIED. IF THE OWNER WAIVES SOIL TESTING, FERTILIZER ANALYSIS SHALL BE, BY WEIGHT, IN A 1-1-1 OR 1-2-1 (N-P-K) RATIO (SUCH AS 13-13-13 OR 10-20-10,) AND 10- TO 10-PERCENT SULPHATE AND TRACES OF IRON AND ZINC AS REQUIRED AND APPROVED BY THE OWNER.

11. PRESPLANTING APPLICATION RATE SHALL BE 10-LBS-FERTILIZER PER 1,000 SQ. FT.

12. POST PLANTING FERTILIZER ANALYSIS SHALL BE BASED ON SOIL TEST RESULTS AND THE NITROGEN REQUIREMENTS FOR THE TURFGRASS SPECIFIED. IF THE OWNER WAIVES SOIL TESTING, FERTILIZER ANALYSIS SHALL BE AS SPECIFIED BELOW EXCEPT THAT FOR AUTUMN APPLICATIONS A COMPLETE FERTILIZER WITH A 4-1-2 TO 3-1-2 (N-P-K) RATIO SHALL BE APPLIED. FERTILIZER SHALL CONTAIN 30-TO 50-PERCENT SLOW RELEASE NITROGEN, UNLESS SPECIFIED OTHERWISE BY THE OWNER.

13. AS SOON AS NEW GROWTH STARTS AFTER SEEDING OR SPRIGGING, GRASS SHALL BE FERTILIZED EVERY 10- TO 14-DAYS WITH 0.75- TO 1.0-LB. -NITROGEN-PER-1,000-SQ. FT. APPLICATIONS SHALL ALTERNATE BETWEEN NITROGEN ONLY FERTILIZER WHOSE ANALYSIS IS, BY WEIGHT, 21-0-0 OR 45-0-0 (N-P-K) AND A COMPLETE FERTILIZER WITH A 3-1-2 OR 4-1-2 (N-P-K) RATIO (SUCH AS 21-7-14.)

SODDING NOTES:

1. SOD SHALL BE "STENOTAPHRUM SECUNDATUM" (ST. AUGUSTINE GRASS), "CYNODON DACTYLON" (COMMON BERMUDAGRASS), "BUCHLOE DACTYLOIDES" (BUFFALOGRASS), AN APPROVED HYBRID OF COMMON BERMUDAGRASS, OR AN APPROVED ZOYSIAGRASS.

2. SOD USED SHALL BE DROUGHT RESISTANT.

3. SOD SHALL CONSIST OF STOLONS, LEAF BLADES, RHIZOMES, AND ROOTS WITH A HEALTHY, VIRILE SYSTEM OF DENSE, THICKLY MATTED ROOTS THROUGHOUT THE SOIL OF THE SOD FOR A THICKNESS NOT LESS THAN 0.75-IN. (2CM)

4. SOD SHALL BE ALIVE, HEALTHY, VIGOROUS, FREE OF INSECTS, DISEASE, STONES, AND UNDESIRABLE FOREIGN MATERIALS, WEEDS AND GRASSES DETRIMENTAL TO ITS GROWTH OR WHICH MIGHT AFFECT ITS SUBSISTENCE OR HARDINESS WHEN TRANSPLANTED.

5. SOD SHALL BE PROTECTED FROM EXPOSURE TO WIND, SUN AND FREEZING. IF SOD IS STACKED, IT SHALL BE KEPT MOIST AND SHALL BE STACKED ROOTS TO ROOTS AND GRASS TO GRASS.

6. SOD TO BE PLACED BETWEEN CURB AND WALK AND ON TERRACES SHALL BE THE SAME TYPE GRASS AS ADJACENT GRASS OR EXISTING LAWN.

7. SOD TO BE PLACED DURING THE DORMANT STAGE OF THESES GRASSES SHALL BE INSPECTED BY THE OWNER TO VERIFY THAT THE GRASS IS ACCEPTABLE.

8. ALL SOD SHALL HAVE BEEN MACHINE CUT TO UNIFORM SOIL THICKNESS OF 1/2-INCH (13 MM) ± 1/8-INCH (3 MM). ALL SOD SHALL BE OF THE SAME THICKNESS.

9. RECTANGULAR SECTIONS OF SOD MAY VARY IN LENGTH, BUT ALL SHALL BE OF EQUAL WIDTH AND OF A SIZE THAT PERMITS THE SOD TO BE LIFTED, HANDLED AND ROLLED WITHOUT BREAKING.

10. BROKEN PADS AND TORN, UNEVEN ENDS SHALL BE REJECTED.

SEEDING TURFGRASS:

1. PRIOR TO PLANTING, CONTRACTOR SHALL PROVIDE THE OWNER WITH THE STATE OF TEXAS CERTIFICATE STATING ANALYSIS OF PURITY AND GERMINATION OF SEED.

2. TURFGRASS SEED SHALL BE "CYNODON DACTYLON" (COMMON BERMUDAGRASS). THE SEED SHALL BE HARVESTED WITHIN 1-YEAR PRIOR TO PLANTING, FREE OF JOHNSONGRASS, FIELD BIND WEED, DODDER SEED, AND FREE OF OTHER WEED SEED TO THE LIMITS ALLOWABLE UNDER THE FEDERAL SEED ACT AND APPLICABLE SEED LAWS. THE SEED SHALL NOT BE A MIXTURE.

3. THE SEED SHALL BE HULLED, EXTRA FANCY GRADE, AND HAVE A GERMINATION AND PURITY THAT SHALL PRODUCE, AFTER ALLOWANCE FOR FEDERAL SEED ACT TOLERANCES, A PURE LIVE SEED CONTENT OF NOT LESS THAN 85-PERCENT. PURE LIVE SEED (PLS) PERCENT SHALL BE DETERMINED USING THE FORMULA: PERCENT PURE LIVE SEED = %PURITY X [(%GERMINATION + %FIRM OR HARD SEED) ÷ 100]

4. ALL PLANTING SHALL BE DONE BETWEEN THE DATES SPECIFIED FOR EACH GRASS TYPE EXCEPT WHEN SPECIFICALLY AUTHORIZED IN WRITING. THE SEEDS PLANTED PER ACRES SHALL BE OF A TYPE SPECIFIED WITH THE MIXTURE, RATE AND PLANTING DATES AS SHOWN IN TABLE: SEEDING TURFGRASS, OR AS SPECIFIED BY THE OWNER.

LANDSCAPING, TOPSOIL, SEEDING, SODDING, AND FERTILIZER NOTES:

TABLE: SEEDING TURGRASS

TYPE	PLANTING SEASON	SEED AND RATE
TYPE I	MARCH THROUGH SEPTEMBER	Bermuda Grass, hulled, 50-lb.-(22.7-kg)-PLS' -per-acre
TYPE II	OCTOBER THROUGH FEBRUARY	Rye Grass, 100-lb.- (45.4-kg)-PLS' -per-acre combined with Bermuda Grass, unhulled, 20-lb.-(9.01-kg)-PLS'-per-acre
OTHER	OCTOBER THROUGH FEBRUARY	Specified on the plans

5. ALL MULCH SHALL BE CELLULOSE FIBER MULCH AND SHALL BE REFINED SPECIFICALLY FOR LAWN HYDRAULIC MULCH APPLICATIONS. USE "CONWED" OR AN APPROVED EQUAL.

6. ADHESIVE (TACKING) AGENTS FOR MULCH MAY INCLUDE GUAR GUM, POLYACRYLAMIDE, OR OTHER TACKING AGENT, AS APPROVED BY THE OWNER.

7. TAKING AGENT SHALL BE EVENLY DISTRIBUTED IN THE HYDRAULIC MULCH BEFORE LAND APPLICATION IN THE PROPORTION RECOMMENDED BY THE MULCH MANUFACTURER.

8. SEED OR SEED MIXTURE, IN THE QUANTITY SPECIFIED, SHALL BE UNIFORMLY DISTRIBUTED OVER THE AREAS SHOWN ON THE PLANS OR WHERE DIRECTED.

9. SEED AND FERTILIZER ARE TO BE DISTRIBUTED AS A WATER SLURRY, AND THE MIXTURE SHALL BE APPLIED TO THAT AREA TO BE SEEDED WITHIN 30-MINUTES AFTER ALL COMPONENTS ARE PLACED IN THE EQUIPMENT.

10. FERTILIZER SHALL CONFORM TO THE APPLICABLE REQUIREMENTS AS STATED OR PER OWNER.

11. AFTER PLACEMENT IS COMPLETED, THE PLANTED AREA SHALL BE WATERED SUFFICIENTLY TO ASSURE UNIFORM MOISTURE FROM THE SURFACE TO A MINIMUM 6-IN. (150MM) DEPTH.

12. SEEDED AREAS SHALL BE THOROUGHLY WATERED IMMEDIATELY AFTER THEY ARE PLANTED. SEEDED AREAS SHALL BE WATERED AS DIRECTED BY THE OWNER AT LEAST TWICE DAILY FOR AT LEAST 14-DAYS AFTER SEEDING IN SUCH A MANNER AS TO PREVENT WASHING OF THE SLOPES OR DISLODGMENT OF THE SEED.

13. WATER SHALL BE APPLIED TO THE CULTIVATED AREAS UNTIL A MINIMUM DEPTH OF 6-INCHES IS THOROUGHLY MOISTENED.

14. CONTRACTOR SHALL RE-SEED WASHED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WATERING UNTIL FINAL ACCEPTANCE.

15. AT MINIMUM THE CONTRACTOR SHALL MAINTAIN THE SEEDED AREA UNTIL EACH OF THE FOLLOWING CONDITIONS IS ACHIEVED: VEGETATION IS EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS, AND COVERS 70% OF THE SEEDED AREA.

3-1-13

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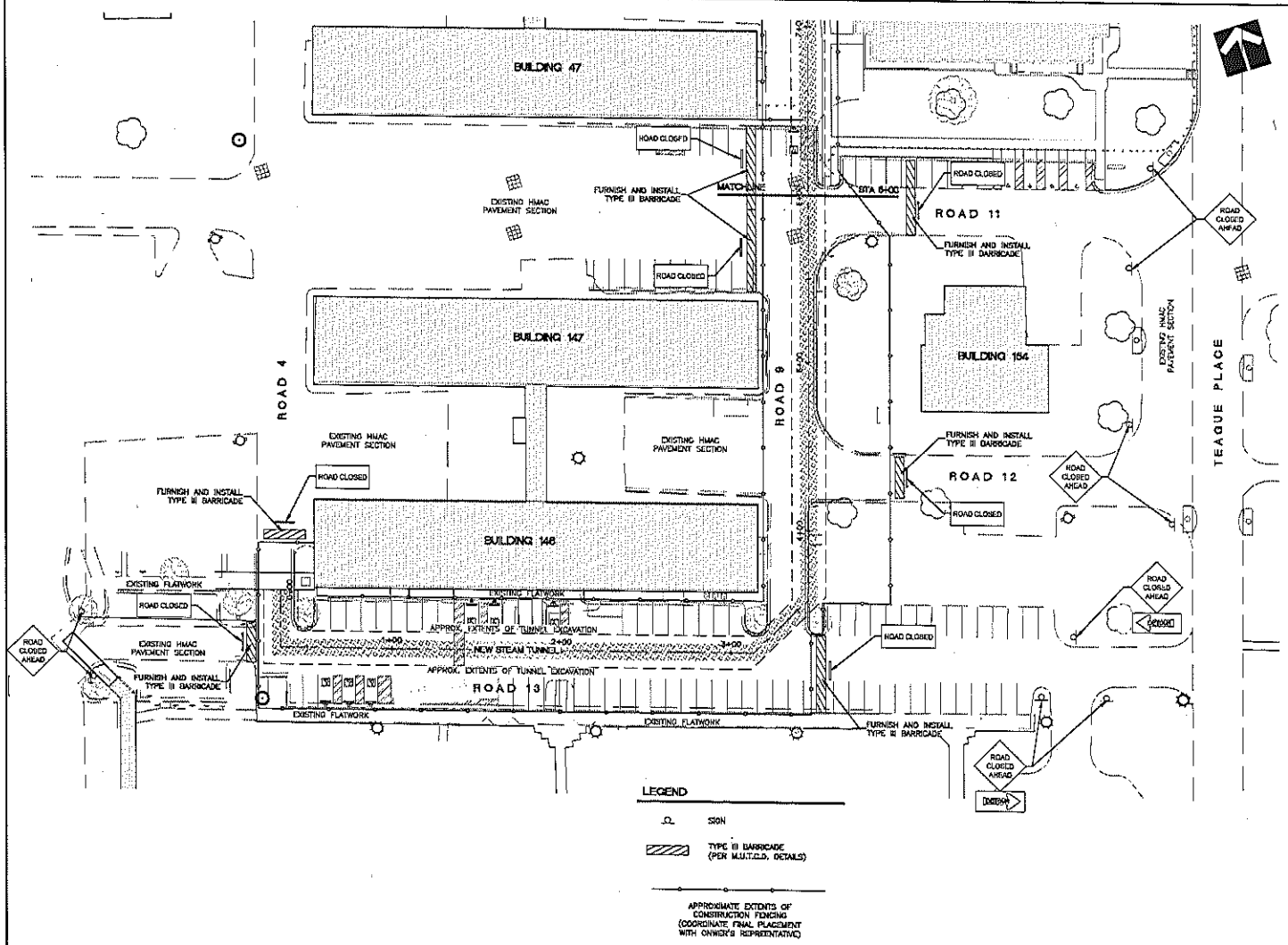
Architectural Edge Inc.
3010 Scott Blvd.
Suite 102
Temple, Texas
76504
254.771.2054 P
254.773.2144 F
+architecture
+design services
+consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0800 www.clark-fuller.com F-10486

Drawing Title: CONSTRUCTION NOTES SHEET 3	Project Title: UNDERGROUND UTILITIES		Date: 3/1/13
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF	Building Number: SITE	Checked: MLC	Project No.: 674-10-101
Approved: Project Manager: VICTOR GAW, P.E.	Location: TEMPLE VAMC - TEMPLE, TEXAS	Drawn: DGR	Drawing No.: C1.3
			Dwg. 3 of 28

Veterans Affairs



TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL DEVICES, BARRICADES, SIGNAGE, ETC., SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGNS SHOWN UPON THIS PLAN ARE NOT ALL INCLUSIVE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SIGNAGE AND SITE SECURITY.

2. FLAGGERS SHALL USE RADIOS OR OTHER SUITABLE MEANS OF COMMUNICATIONS WITH OTHER FLAGGERS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND MAINTAINING TRASH PICKUP AND MAIL DELIVERY WITH OWNERS REPRESENTATIVE.

4. ALL CONSTRUCTION ACTIVITIES AND ROAD CLOSURES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND ALSO WITH LOCAL POLICE AND FIRE CHIEF. THE CONTRACTOR SHALL NOTIFY THE PROJECT INSPECTOR 72 HOURS PRIOR TO CLOSING OF ROADS OR ALLEYS.

5. MATERIALS STORED ABOUT THE WORK SITE SHALL BE SO PLACED, AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED, AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED NECESSARY BY THE OWNER.

6. THE CONTRACTOR SHALL MAKE PROVISIONS BY BRIDGES OR OTHERWISE AT ALL CROSS STREETS, HIGHWAYS, SIDEWALKS AND PRIVATE DRIVEWAYS FOR THE FREE PASSAGE OF PEDESTRIANS AND VEHICLES PROVIDED THAT WHERE BRIDGING IS IMPRACTICABLE OR UNNECESSARY, IN THE OPINION OF THE OWNER, THE CONTRACTOR MAY MAKE ARRANGEMENTS SATISFACTORY TO THE OWNER FOR THE DIVERSION OF TRAFFIC AND SHALL, AT ITS OWN EXPENSE, PROVIDE ALL MATERIAL AND PERFORM ALL WORK NECESSARY FOR THE CONSTRUCTION MAINTENANCE OF ROADWAYS AND BRIDGES FOR THE DIVERSION OF TRAFFIC.

7. SIDEWALKS MUST NOT BE OBSTRUCTED EXCEPT BY SPECIAL PERMISSION OF THE OWNER.

8. THE MATERIALS EXCAVATED, AND THE CONSTRUCTION MATERIALS OR PLANT USED IN THE CONSTRUCTION OF THE WORK, SHALL BE PLACED SO AS NOT TO ENDANGER THE WORK OR PREVENT FREE ACCESS TO ALL FIRE HYDRANTS, WATER VALVES, GAS VALVES, MANHOLES FOR THE TELEPHONE, TELEGRAPH SIGNAL OR ELECTRIC CONDUITS, SANITARY SEWERS AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY.

9. DURING PERFORMANCE AND UP TO DATE OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE UNDER THE ABSOLUTE OBLIGATION TO PROTECT THE FINISHED WORK AGAINST ANY DAMAGE, LOSS OR INJURY. IN THE EVENT OF SUCH DAMAGE, LOSS OR INJURY, THE CONTRACTOR SHALL PROMPTLY REPLACE OR REPAIR SUCH WORK, WHICHEVER THE OWNER SHALL DETERMINE TO BE PREFERABLE.

10. ALL RISK OF LOSS OR DAMAGE TO THE WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR UNTIL FINAL COMPLETION AND ACCEPTANCE OF ALL WORK BY THE OWNER, AS EVIDENCE BY THE OWNER'S ISSUANCE OF A CERTIFICATE OF ACCEPTANCE.

11. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE AND MAINTAIN ALL WARNING DEVICES AND TAKE ALL PRECAUTIONARY MEASURES REQUIRED BY LAW OR OTHERWISE TO PROTECT PERSONS AND PROPERTY WHILE SAID PERSONS OR PROPERTY ARE APPROACHING, LEAVING OR WITHIN THE WORK SITE OR ANY AREA ADJACENT TO SAID WORK SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OR MAINTENANCE OF ANY WARNING DEVICES, BARRICADES, LIGHTS, SIGNS OR ANY OTHER PRECAUTIONARY MEASURES REQUIRED BY LAW OR OTHERWISE FOR THE PROTECTION OF PERSONS OR PROPERTY.

13. WHERE THE WORK IS CARRIED ON, IN OR ADJACENT TO ANY STREET, ALLEY, SIDEWALK, PUBLIC RIGHT-OF-WAY OR PUBLIC PLACE, THE CONTRACTOR SHALL AT ITS OWN COST AND EXPENSE PROVIDE SUCH FLAGMEN AND WATCHMEN IN ADDITION TO ITS RESPONSIBILITY TO FURNISH, ERECT AND MAINTAIN SUCH WARNING DEVICES, BARRICADES, LIGHTS, SIGNS, AND OTHER PRECAUTIONARY MEASURES FOR THE PROTECTION OF PERSONS OR PROPERTY AS ARE REQUIRED BY LAW.

14. THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING AND MAINTAINING FLAGMEN, WATCHMEN, WARNING DEVICES, BARRICADES, SIGNS, AND LIGHTS, AND OTHER PRECAUTIONARY MEASURES SHALL NOT CEASE UNTIL DIRECTED IN WRITING BY THE OWNER OR UNTIL FINAL PAYMENT, WHICHEVER OCCURS FIRST. IF THE OWNER DISCOVERS THAT THE CONTRACTOR HAS FAILED TO COMPLY WITH THE APPLICABLE FEDERAL AND STATE LAW BY FAILING TO FURNISH THE NECESSARY FLAGMEN, WARNING DEVICES, BARRICADES, SIGNS, AND LIGHTS, OR OTHER PRECAUTIONARY MEASURES FOR THE PROTECTION OF PERSONS OR PROPERTY, THE OWNER MAY ORDER SUCH ADDITIONAL PRECAUTIONARY MEASURES AS REQUIRED BY LAW TO BE TAKEN TO PROTECT PERSONS AND PROPERTY.

15. THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR ANY EXPENSE INCURRED BY THE OWNER IN TAKING ANY ADDITIONAL PRECAUTIONARY MEASURES AS A RESULT OF THE CONTRACTOR'S FAILURE TO DO SO.

16. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE WORK AND OTHER PUBLIC OR PRIVATE PROPERTY DUE TO THE FAILURE OF WARNING DEVICES, BARRICADES, SIGNS, LIGHTS, OR OTHER PRECAUTIONARY MEASURES IN PROTECT SAID PROPERTY, AND WHENEVER EVIDENCE IS FOUND OF SUCH DAMAGE, THE ENGINEER MAY ORDER THE DAMAGED PORTION IMMEDIATELY REMOVE AND REPLACE BY AND AT THE COST AND EXPENSE OF THE CONTRACTOR.

17. MINIMUM STANDARDS FOR SAFEGUARDING PEDESTRIAN AND VEHICULAR TRAFFIC ARE CONTAINED IN THE CURRENT TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS AMENDED, TEXAS DEPARTMENT OF TRANSPORTATION.

18. SIGNAGE, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES FOR DETOURING AND MAINTENANCE OF TRAFFIC SHALL BE AS PROVIDED IN ABOVE SAID MANUAL AND AS DIRECTED BY THE ENGINEER.

19. COSTS ASSOCIATED WITH THE ACQUISITION AND REMOVAL OF REQUIRED TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK.

20. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE DELIVERY ROUTES AND PROJECT GATES AND ACCESS POINTS WITH OWNER'S REPRESENTATIVE.

5-1-13

STATE OF TEXAS
MONTY L. CLARK
60104
REGISTERED PROFESSIONAL ENGINEER

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No.	Date	By	Revisions

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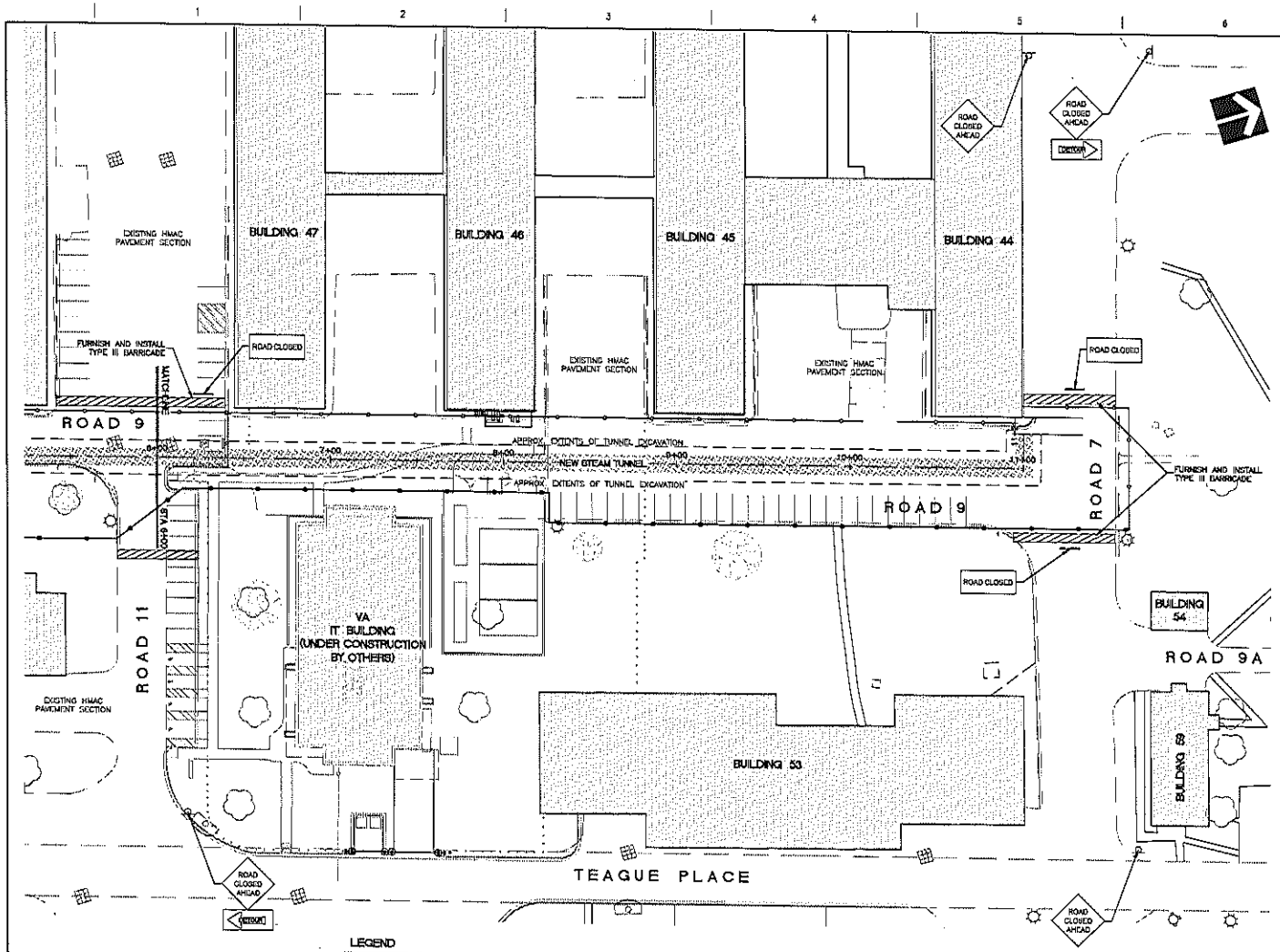
Architectural Edge Inc.
3010 Scott Blvd.
Suite 302
Temple, Texas
76504
254-771-2054 P
254-773-2144 F
• architecture
• design services
• consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254-771-0779 www.clark-fuller.com F-10384

Drawing Title	TRAFFIC CONTROL PLAN - SHEET 1 STA 0+00 - 6+00
Approved: Chief, Engineering Services	DAVID SUMMERS, CHIEF
Approved: Project Manager	VICTOR GAW, P.E.
Project Title	UNDERGROUND UTILITIES
Building Number	SITE
Checked	MLC
Drawn	DGR
Location	TEMPLE VAMC – TEMPLE, TEXAS
Date	3/1/13
Project No.	674-10-101
Drawing No.	C2.1
Dwg. 4 of 28	

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1983-403-285



TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL DEVICES, BARRICADES, SIGNAGE, ETC., SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGNS SHOWN UPON THIS PLAN ARE NOT ALL INCLUSIVE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SIGNAGE AND SITE SECURITY.

2. FLAGGERS SHALL USE RADIOS OR OTHER SUITABLE MEANS OF COMMUNICATIONS WITH OTHER FLAGGERS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND MAINTAINING TRASH PICKUP AND MAIL DELIVERY WITH OWNERS REPRESENTATIVE.

4. ALL CONSTRUCTION ACTIVITIES AND ROAD CLOSURES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND ALSO WITH LOCAL POLICE AND FIRE CHIEF. THE CONTRACTOR SHALL NOTIFY THE PROJECT INSPECTOR 72 HOURS PRIOR TO CLOSING OF ROADS OR ALLEYS.

5. MATERIALS STORED ABOUT THE WORK SITE SHALL BE SO PLACED, AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED, AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED NECESSARY BY THE OWNER.

6. THE CONTRACTOR SHALL MAKE PROVISIONS BY BRIDGES OR OTHERWISE AT ALL CROSS STREETS, HIGHWAYS, SIDEWALKS AND PRIVATE DRIVEWAYS FOR THE FREE PASSAGE OF PEDESTRIANS AND VEHICLES PROVIDED THAT WHERE BRIDGING IS IMPRACTICABLE OR UNNECESSARY, IN THE OPINION OF THE OWNER, THE CONTRACTOR MAY MAKE ARRANGEMENTS SATISFACTORY TO THE OWNER FOR THE DIVERSION OF TRAFFIC AND SHALL, AT ITS OWN EXPENSE, PROVIDE ALL MATERIAL AND PERFORM ALL WORK NECESSARY FOR THE CONSTRUCTION MAINTENANCE OF ROADWAYS AND BRIDGES FOR THE DIVERSION OF TRAFFIC.

7. SIDEWALKS MUST NOT BE OBSTRUCTED EXCEPT BY SPECIAL PERMISSION OF THE OWNER.

8. THE MATERIALS EXCAVATED, AND THE CONSTRUCTION MATERIALS OR PLANT USED IN THE CONSTRUCTION OF THE WORK, SHALL BE PLACED SO AS NOT TO ENDANGER THE WORK OR PREVENT FREE ACCESS TO ALL FIRE HYDRANTS, WATER VALVES, GAS VALVES, MANHOLES FOR THE TELEPHONE, TELEGRAPH SIGNAL OR ELECTRIC CONDUITS, SANITARY SEWERS AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY.

9. DURING PERFORMANCE AND UP TO DATE OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE UNDER THE ABSOLUTE OBLIGATION TO PROTECT THE FINISHED WORK AGAINST ANY DAMAGE, LOSS OR INJURY. IN THE EVENT OF SUCH DAMAGE, LOSS OR INJURY, THE CONTRACTOR SHALL PROMPTLY REPLACE OR REPAIR SUCH WORK, WHICHEVER THE OWNER SHALL DETERMINE TO BE PREFERABLE.

10. ALL RISK OF LOSS OR DAMAGE TO THE WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR UNTIL FINAL COMPLETION AND ACCEPTANCE OF ALL WORK BY THE OWNER, AS EVIDENCE BY THE OWNER'S ISSUANCE OF A CERTIFICATE OF ACCEPTANCE.

11. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE AND MAINTAIN ALL WARNING DEVICES AND TAKE ALL PRECAUTIONARY MEASURES REQUIRED BY LAW OR OTHERWISE TO PROTECT PERSONS AND PROPERTY WHILE SAID PERSONS OR PROPERTY ARE APPROACHING, LEAVING OR WITHIN THE WORK SITE OR ANY AREA ADJACENT TO SAID WORK SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OR MAINTENANCE OF ANY WARNING DEVICES, BARRICADES, LIGHTS, SIGNS OR ANY OTHER PRECAUTIONARY MEASURES REQUIRED BY LAW OR OTHERWISE FOR THE PROTECTION OF PERSONS OR PROPERTY.

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20. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE DELIVERY ROUTES AND PROJECT GATES AND ACCESS POINTS WITH OWNER'S REPRESENTATIVE.

3-1-13

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Architectural Edge Inc.
3010 Scott Blvd.
Suite 102
Temple, Texas
76504
254.771.2054 P
254.773.2144 F
• architecture
• design services
• consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0890 www.clark-fuller.com F-10184

Drawing Title: TRAFFIC CONTROL PLAN - SHEET 2
STA 6+00 - END

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Building Number: SITE | Checked: MLC | Drawn: DCR

Approved: Project Manager: VICTOR CAW, P.E.

Location: TEMPLE VAMC – TEMPLE, TEXAS

Drawing No.: C2.2

Dwg. 5 of 28

Veterans Affairs

VA FORM 08-6231, FEB. 1983

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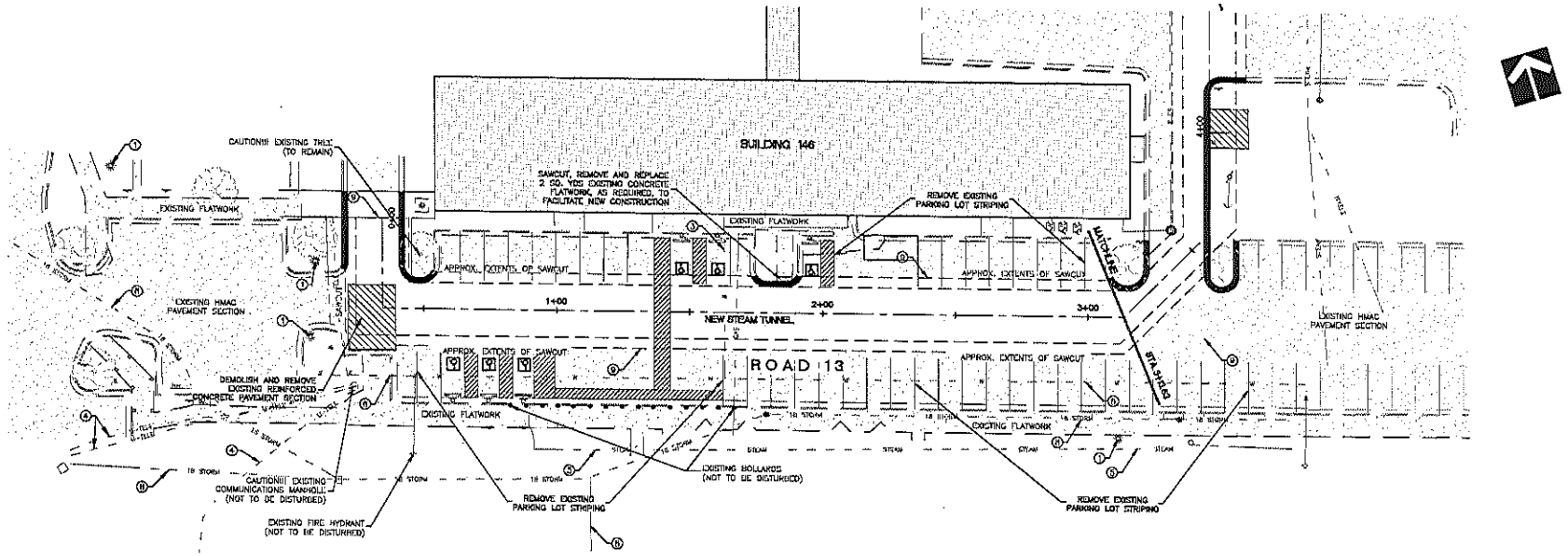

1 ROAD 13

KEYED NOTES

1. CAUTION!!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!!! UNDERGROUND ELECTRIC (SEE NOTE 3)
3. CAUTION!!! EXISTING GAS MAIN/METER (SEE NOTE 3)
4. CAUTION!!! EXISTING TELEPHONE/FIBER OPTIC (SEE NOTE 3)
5. CAUTION!!! EXISTING STEAM LINE
6. CAUTION!!! EXISTING WATER MAIN/METER (SEE NOTE 3)
7. CAUTION!!! EXISTING SANITARY SEWER
8. CAUTION!!! EXISTING STORM SEWER
9. SAWCUT, REMOVE AND REPLACE EXISTING HMAC AND BASE, AS REQUIRED, TO PROVIDE HMAC TIE IN

NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE DEMOLITION OF EXISTING STRUCTURES, PAVEMENT SECTIONS, VEGETATION, ETC. WITH OWNER.
2. EXISTING UTILITIES WERE LOCATED BY FIELD RESEARCH/OBSERVATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND COORDINATE UTILITY REMOVAL AND RELOCATION WITH OWNER AND APPROPRIATE UTILITY COMPANY.
3. CONTRACTOR SHALL PROTECT AND BRACE EXISTING NON-GRAVITY FLOW UTILITIES SUCH AS FIBER OPTIC, ELECTRIC, GAS AND WATER FOR THE DURATION OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE SANITARY SEWER AND STORM SEWER BYPASS PUMPING AND TEMPORARY SANITARY SEWER AND STORM SEWER BYPASS GRAVITY MAIN.
5. CONTRACTOR TO RE-GRADE AND REWORK BASE TO FACILITATE DRAINAGE INTO NEW SUMP INLETS.
6. CONTRACTOR SHALL MAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING UTILITIES. IF ANY DAMAGE OCCURS, TO EXISTING UTILITIES, DAMAGE IS TO BE REPAIRED IMMEDIATELY TO AT LEAST PREEXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION AND CONCRETE FLATWORK
- SAWCUT, REMOVE, AND REPLACE EXISTING HMAC PAVEMENT SECTION, AS REQUIRED, TO FACILITATE NEW STEAM TUNNEL CONSTRUCTION (PER DETAILS – SEE NOTES) REFER TO PAVEMENT PLAN FOR EXTENTS OF HMAC MILLING
- SAWCUT, REMOVE AND REPLACE EXISTING REINFORCED CONCRETE PAVEMENT SECTION AND FLATWORK (PER PROJECT DETAILS)
- SAWCUT REMOVE AND REPLACE EXISTING CURB AND GUTTER (PER PROJECT DETAILS)
- EXISTING TREE (TO REMAIN – CONTRACTOR TO PROVIDE TREE PROTECTION, AS REQUIRED)

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Architectural Edge Inc.
3030 Scott Blvd, Suite 102
Temple, Texas 76504
254.771.2054 P
254.773.2144 F
• architecture • design services • consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0699 www.clark-fuller.com F-10384

Drawing Title: DEMOLITION PLAN - SHEET 1
STA 0+00 - 3+13.63

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Project Title: UNDERGROUND UTILITIES

Building Number: SITE | Checked: MLC | Drawn: DCR

Location: TEMPLE VAMC – TEMPLE, TEXAS

Date: 3/1/13

Project No. 674-10-101

Drawing No. C3.1

Dwg. 6 of 28

Veterans Affairs

VA FORM 08-0231, FEB. 1965

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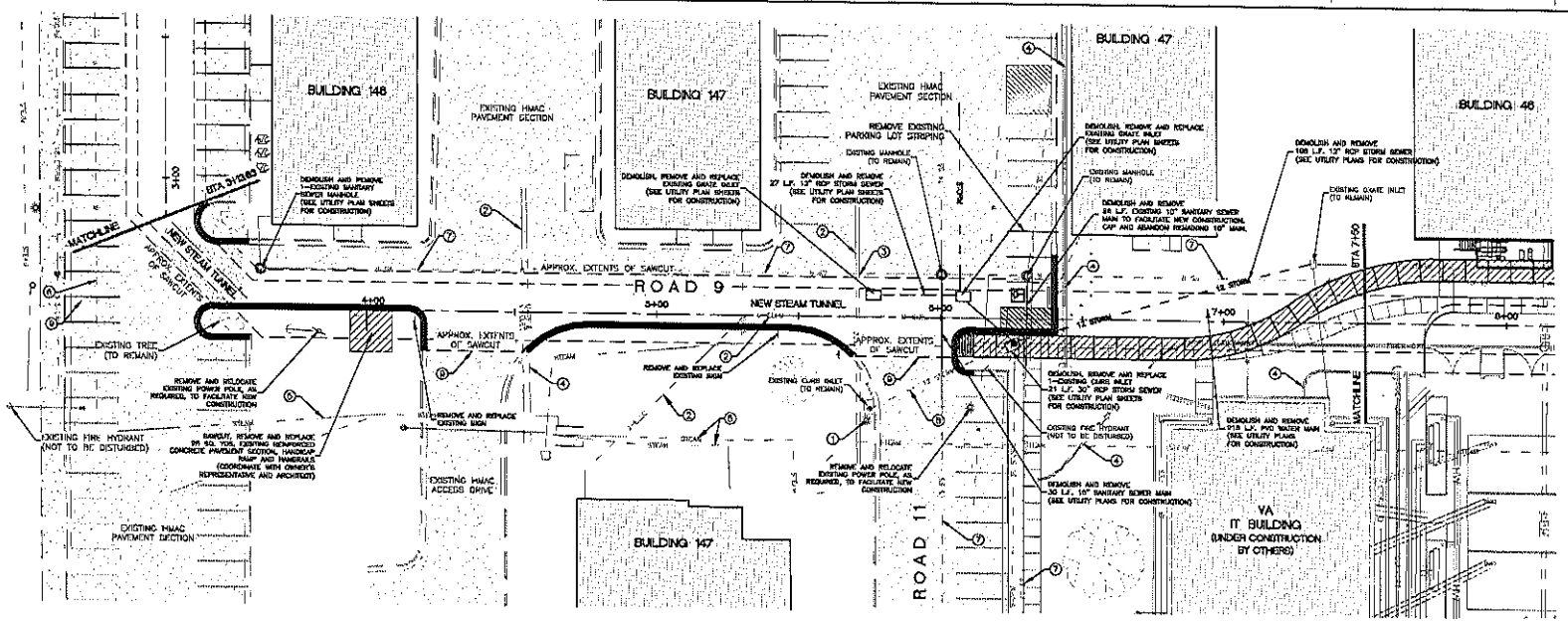

1 ROAD 9

KEYED NOTES ①

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
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NOTES

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2. EXISTING UTILITIES WERE LOCATED BY FIELD RESEARCH/OBSERVATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND COORDINATE UTILITY REMOVAL AND RELOCATION WITH OWNER AND APPROPRIATE UTILITY COMPANY.
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4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE SANITARY SEWER AND STORM SEWER BYPASS PUMPING AND TEMPORARY SANITARY SEWER AND STORM SEWER BYPASS GRAVITY MAIN.
5. CONTRACTOR TO RE-GRADE AND REWORK BASE TO FACILITATE DRAINAGE INTO NEW SUMP INLETS.
6. CONTRACTOR SHALL MAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING UTILITIES. IF ANY DAMAGE OCCURS, TO EXISTING UTILITIES, DAMAGE IS TO BE REPAIRED IMMEDIATELY TO AT LEAST PRECEDING CONDITION AT NO ADDITIONAL COST TO THE OWNER.

LEGEND

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Architectural Edge Inc.
3010 Scott Blvd.
Suite 102
Temple, Texas
76504
254.771.2054 P
254.773.2144 F
• architecture
• design services
• consultation
aiinc@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
119 North Main Street, Temple, TX 76501
254.778.6699 www.clark-fuller.com F-10384

Drawing Title: DEMOLITION PLAN - SHEET 2 STA 3+13.63 - 7+50	Project Title: UNDERGROUND UTILITIES		Date: 3/1/13
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF	Building Number: SITE	Checked: MLC	Drawn: DGR
Approved: Project Manager: VICTOR CAW, P.E.	Location: TEMPLE VAMC - TEMPLE, TEXAS		Project No.: 674-10-101
			Drawing No.: C3.2
			Dwg. 7 of 28

Veterans Affairs

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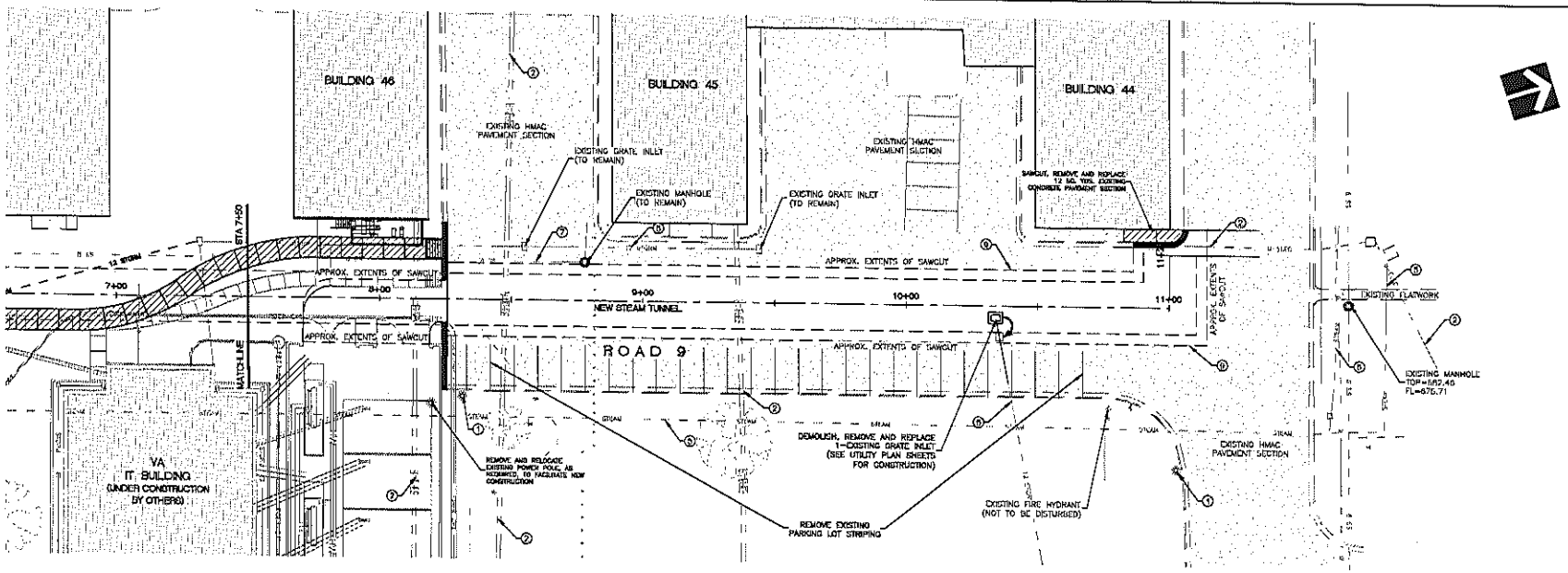

1 ROAD 9

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3-1-13

MONTY L. CLARK 50084 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

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Architectural Edge Inc.
3010 Scott Blvd, Suite 102
Temple, Texas 76504
254.771.2654 P
254.773.2144 F
•architecture •design services •consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0890 www.clarkfuller.com F-10281

Drawing Title: DEMOLITION PLAN - SHEET 3 STA 7+50 - END	Project Title: UNDERGROUND UTILITIES		Date: 3/1/13
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF	Building Number: SITE	Checked: MLC / Drawn: DGR	Project No.: 674-10-101
Approved: Project Manager: VICTOR GAW, P.E.	Location: TEMPLE VAMC – TEMPLE, TEXAS		Drawing No.: C3.3
			Dwg. 8 of 28

Veterans Affairs

VA FORM 08-6231, FEB. 1983

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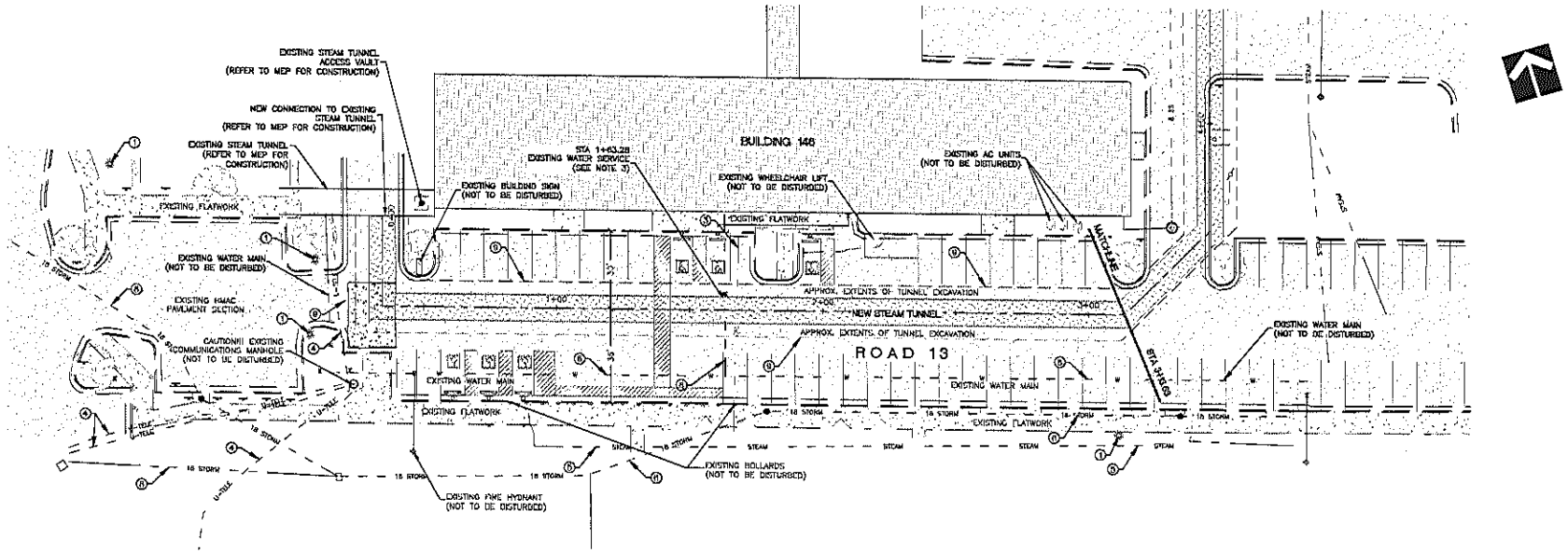

1 ROAD 13

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4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE SANITARY SEWER AND STORM SEWER BYPASS PUMPING AND TEMPORARY SANITARY SEWER AND STORM SEWER BYPASS GRAVITY MAIN, AS REQUIRED TO FACILITATE NEW STEAM TUNNEL CONSTRUCTION.
5. TIE INS TO EXISTING UTILITIES SHALL BE DURING WEEKENDS ONLY. PRIOR TO BEGINNING CONSTRUCTION, SCHEDULE ALL TIE INS WITH COR.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

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Architectural Edge Inc.
3010 Scott Blvd, Suite 102
Temple, Texas 76504
254.771.2054 P
254.773.2144 F
• architecture • design services • consultation
ainc@archedge.com

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Drawing Title: SITE WATER, SANITARY SEWER, AND STORM PLAN - SHEET 1 STA 0+00 - 3+13.63

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Building Number: SITE | Checked: MLC | Drawn: DGR

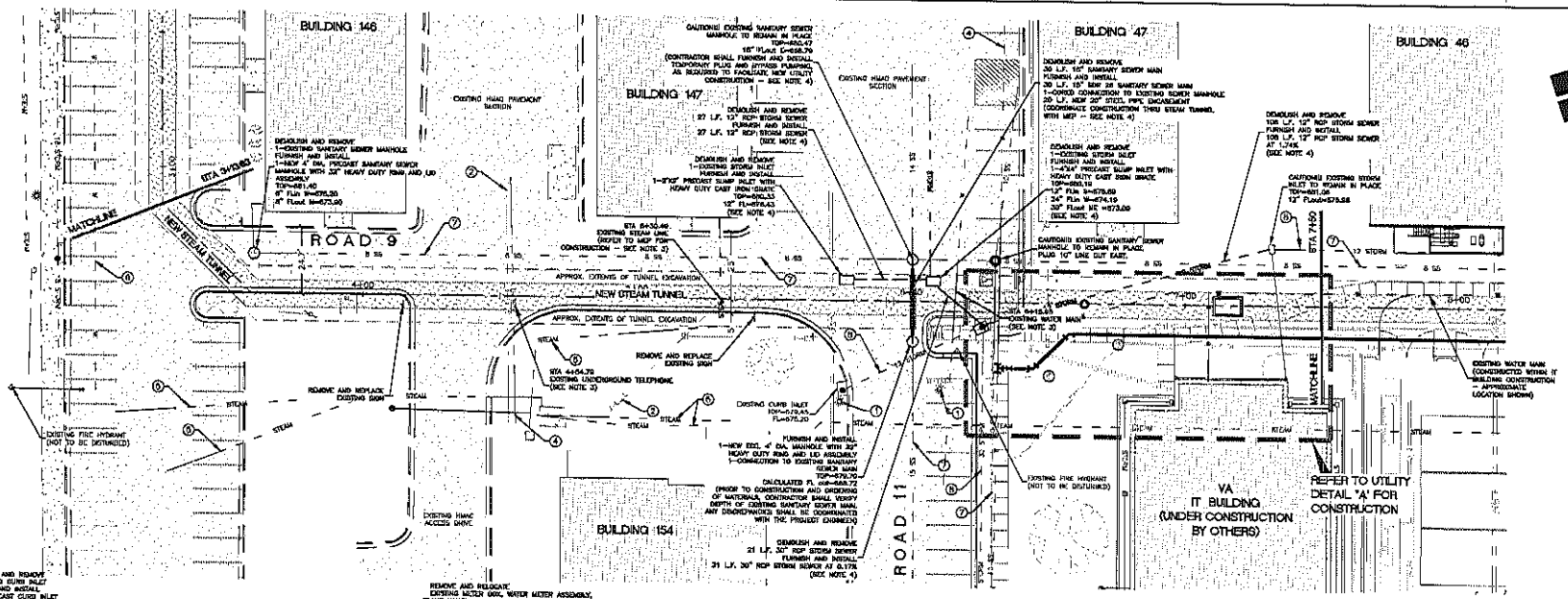
Location: TEMPLE VAMC - TEMPLE, TEXAS

Drawing No.: C4.1

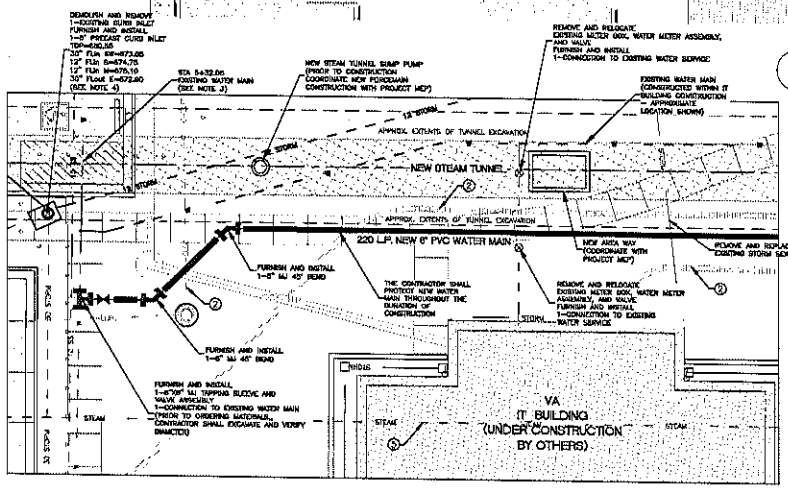
Dwg. 9 of 28

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1983-460-285



1 ROAD 9



UTILITY DETAIL "A"
SCALE 1"=10'

KEYED NOTES

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
3. CAUTION!! EXISTING GAS MAIN/METER (SEE NOTE 3)
4. CAUTION!! EXISTING TELEPHONE/FIBER OPTIC (SEE NOTE 3)
5. CAUTION!! EXISTING STEAM LINE
6. CAUTION!! EXISTING WATER MAIN/METER (SEE NOTE 3)
7. CAUTION!! EXISTING SANITARY SEWER
8. CAUTION!! EXISTING STORM SEWER
9. SAWCUT, REMOVE AND REPLACE EXISTING HMAC AND BASE, AS REQUIRED, TO PROVIDE HMAC TIE IN

NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE DEMOLITION OF EXISTING STRUCTURES, PAVEMENT SECTIONS, VEGETATION, ETC. WITH OWNER.
2. EXISTING UTILITIES WERE LOCATED BY FIELD RESEARCH/OBSERVATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND COORDINATE UTILITY REMOVAL AND RELOCATION WITH OWNER AND APPROPRIATE UTILITY COMPANY.
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5. TIE INS TO EXISTING UTILITIES SHALL BE DURING WEEKENDS ONLY. PRIOR TO BEGINNING CONSTRUCTION, SCHEDULE ALL TIE INS WITH COR.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

0 20 40
FEET

No.	Date	By	Revisions

VA FORM 08-6231, JUL 1983

Architectural Edge Inc.
3050 Scott Blvd.
Suite 102
Temple, Texas 76504
254.771.2054 P
254.773.2144 F
• architecture • design services • consultation
email@archedge.com

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CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.778.9999 www.clark-fuller.com T-16284

Drawing Title: SITE WATER, SANITARY SEWER, AND STORM PLAN - SHEET 2 STA 3+13.63 - 7+50

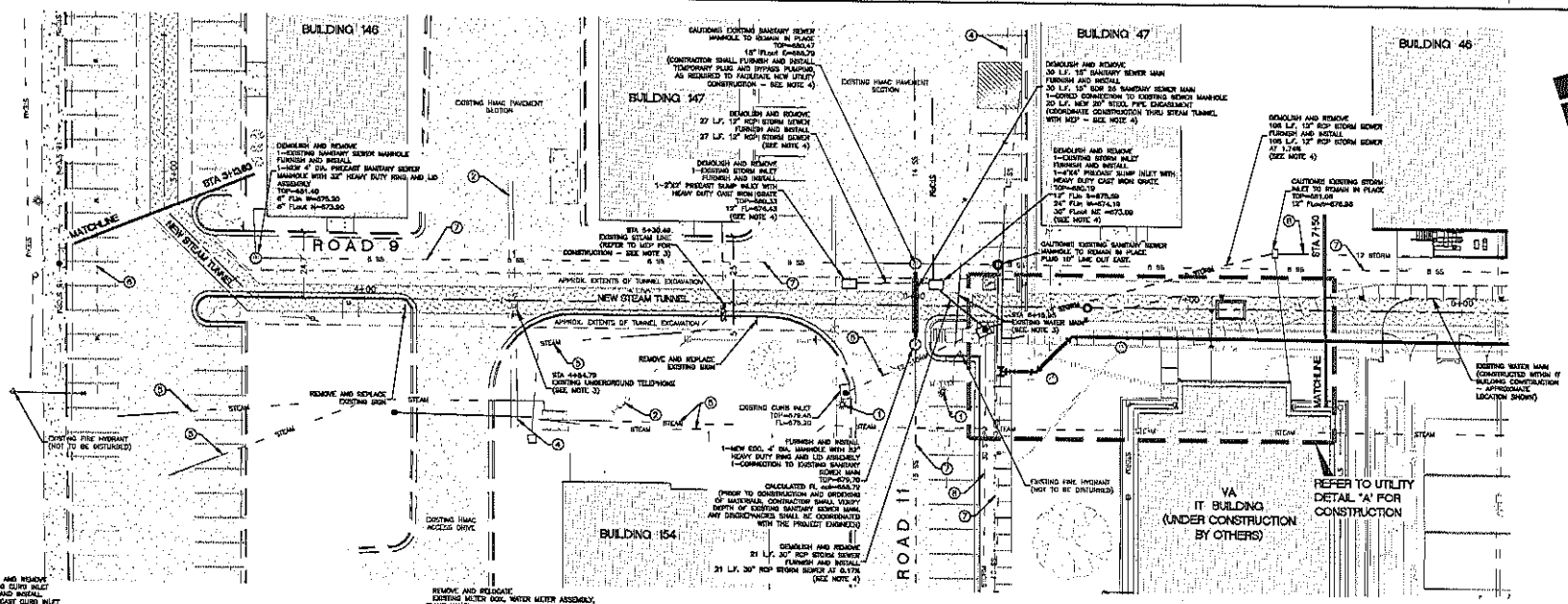
Project Title: UNDERGROUND UTILITIES

Date: 3/1/13
Project No.: 674-10-101
Drawing No.: C4.2
Dwg. 10 of 28

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF
Approved: Project Manager: VICTOR CAW, P.E.
Building Number: SITE
Checked: MLC
Drawn: DGR
Location: TEMPLE VAMC – TEMPLE, TEXAS

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1983-403-285



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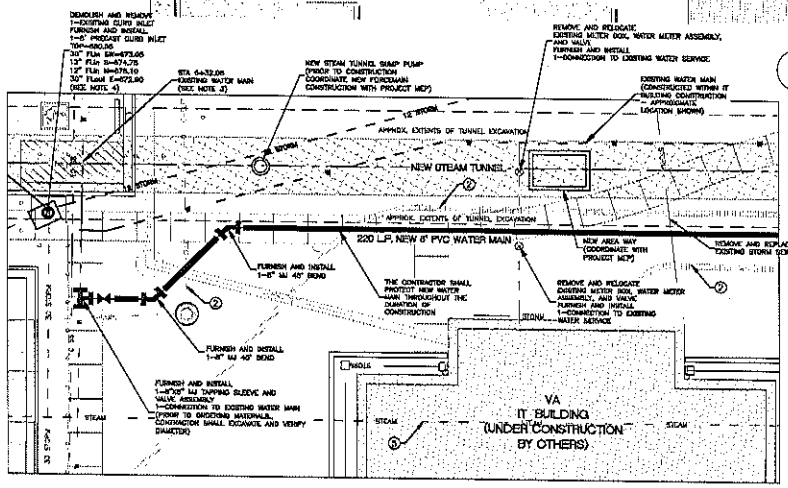

UTILITY DETAIL "A"
SCALE 1"=10'

KEYED NOTES

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
3. CAUTION!! EXISTING GAS MAIN/METER (SEE NOTE 3)
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NOTES

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5. TIE INS TO EXISTING UTILITIES SHALL BE DURING WEEKENDS ONLY. PRIOR TO BEGINNING CONSTRUCTION, SCHEDULE ALL TIE INS WITH COR.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

0 20 40
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No.	Date	By	Revisions

VA FORM 06-0231, FEB. 1983

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3010 Scott Blvd.
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Temple, Texas
76504
254.771.2054 P
254.773.2144 F
• architecture
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• consultation
email@archedge.com

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CIVIL ENGINEERING • DESIGN • PLANNING
216 North Main Street, Temple, TX 76501
254.899.8699 www.clark-fuller.com F-10184

Drawing Title: SITE WATER, SANITARY SEWER, AND STORM PLAN - SHEET 2 STA 3+13.63 - 7+50

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Building Number: SITE | Checked: MLC | Drawn: DGR

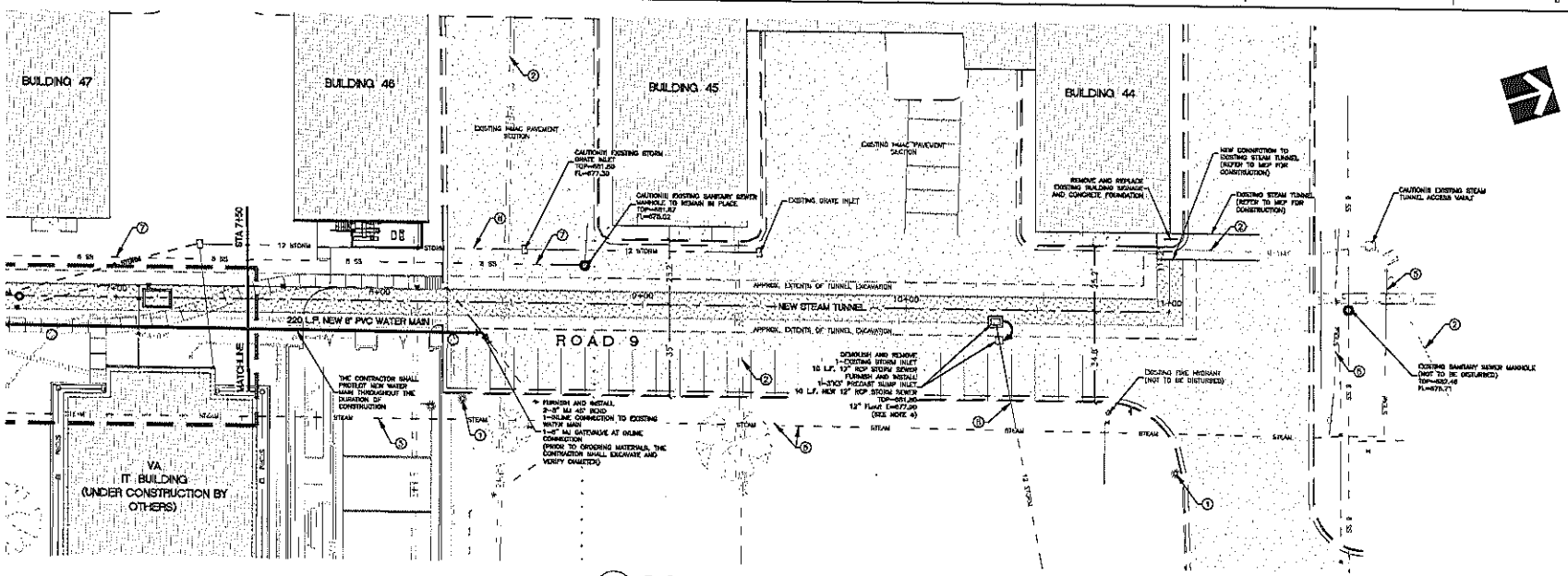
Location: TEMPLE VAMC – TEMPLE, TEXAS

Drawing No. C4.2

Dwg. 10 of 28

Veterans Affairs

VA.S. GOVERNMENT PRINTING OFFICE: 1983-406-320



1 ROAD 9

KEYED NOTES

1. CAUTION!!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!!! UNDERGROUND ELECTRIC (SEE NOTE 3)
3. CAUTION!!! EXISTING GAS MAIN/METER (SEE NOTE 3)
4. CAUTION!!! EXISTING TELEPHONE/FIBER OPTIC (SEE NOTE 3)
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LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

0 20 40
FEET

No.	Date	By	Revisions

VA FORM 08-6231, MAR 1983

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Temple, Texas
76504
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254.773.2344 F
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• consultation
email@archedge.com

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254.899.2444 www.clark-fuller.com F-10285

Drawing Title: SITE WATER, SANITARY SEWER, AND STORM PLAN - SHEET 3 STA 7+50 - END

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Project Title: UNDERGROUND UTILITIES

Building Number: SITE | Checked: MLC | Drawn: DGR

Location: TEMPLE VAMC – TEMPLE, TEXAS

Date: 3/1/13

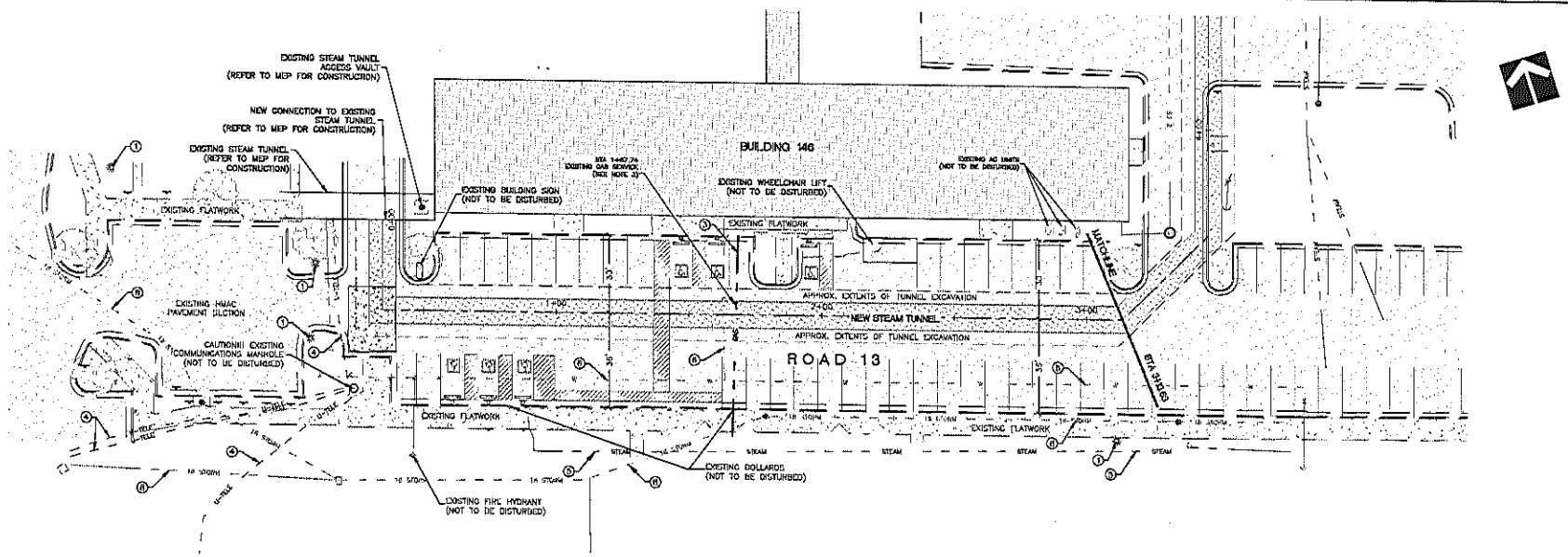
Project No. 674-10-101

Drawing No. C4.3

Dwg. 11 of 28

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1983-400-350



1 ROAD 13

KEYED NOTES (1)

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
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LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

0 20 40 FEET

No.	Date	By	Revisions

VA FORM 08-6231, FEB. 1982

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3010 Scott Blvd, Suite 302
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254.771.2054 P
254.773.2144 F
•architecture •design services •consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
415 North Main Street, Temple, TX 76501
254.899.0999 www.clark-fuller.com F-10064

Drawing Title: SITE ELECTRIC AND GAS MAIN PLAN SHEET 1 STA 0+00 - 3+13.63

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR GAW, P.E.

Project Title: UNDERGROUND UTILITIES

Building Number: SITE | Checked: MLC | Drawn: DGR

Location: TEMPLE VAMC - TEMPLE, TEXAS

Date: 3/1/13

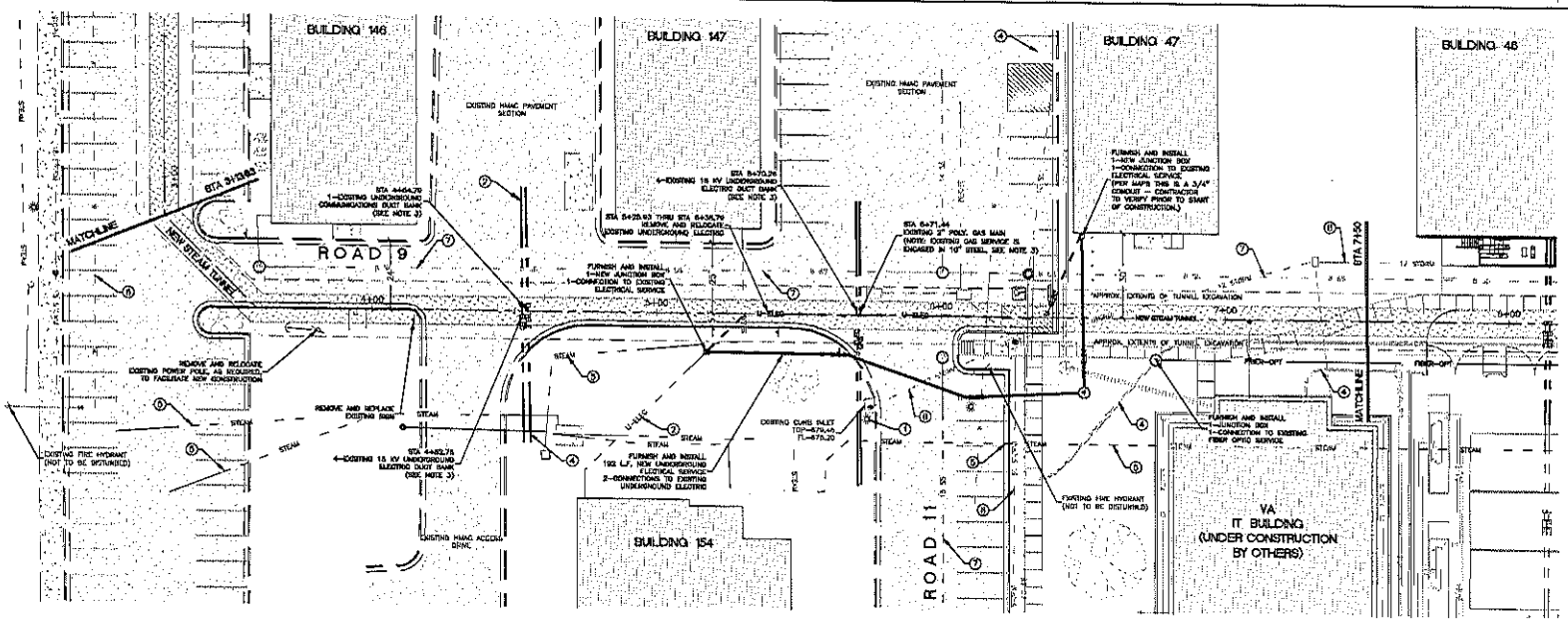
Project No. 674-10-101

Drawing No. C4.4

Dwg. 12 of 28

Veterans Affairs

GPO: GOVERNMENT PRINTING OFFICE: 1983-403-260



1 ROAD 9

KEYED NOTES ①

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
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LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

0 20 40
FEET

No.	Date	By	Revisions

Architectural Edge Inc.
3010 Scott Blvd, Suite 102
Temple, Texas 76504
254.771.2654 P
254.773.2144 F
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email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.774.0159 www.clark-fuller.com F-10384

Drawing Title: SITE ELECTRIC AND GAS MAIN PLAN SHEET 2 STA 3+13.63 - 7+50

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Building Number: SITE | Checked: MLC | Drawn: DGR

Location: TEMPLE VAMC – TEMPLE, TEXAS

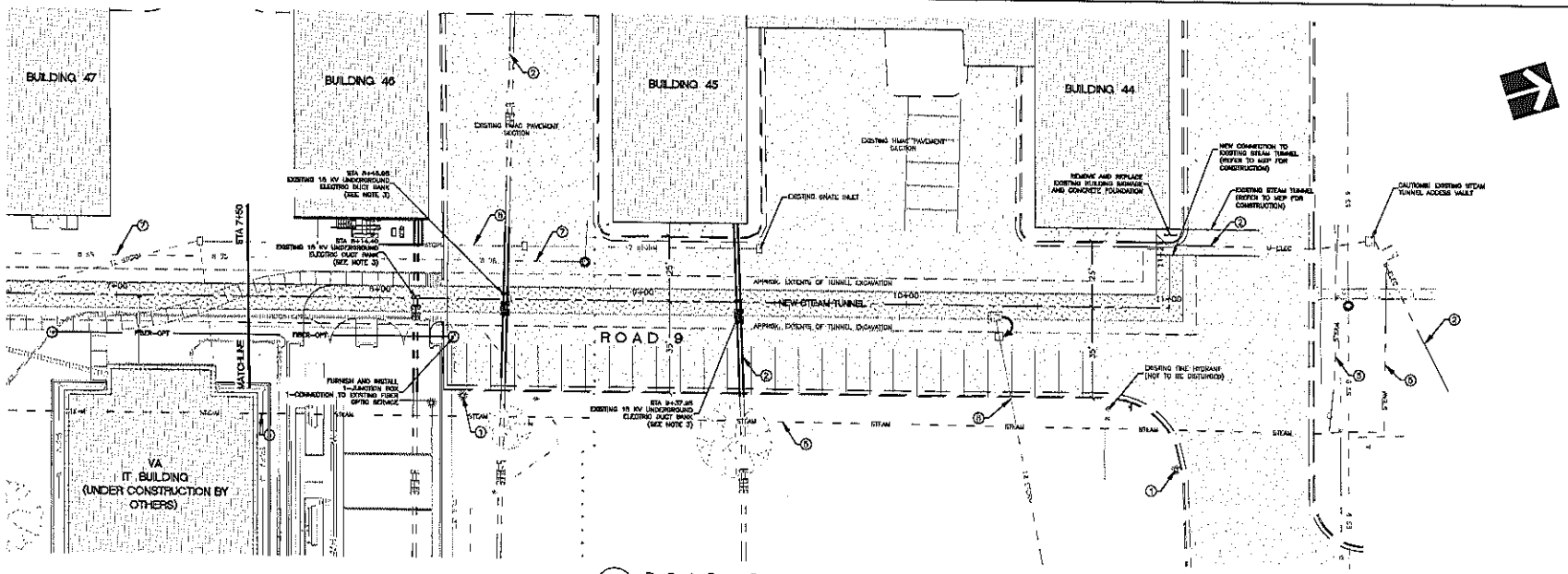
Drawing No. C4.5

Dwg. 13 of 28

Veterans Affairs

VA FORM 08-6231, FEB. 1945

U.S. GOVERNMENT PRINTING OFFICE: 1983-408-303



1 ROAD 9

KEYED NOTES

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LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION
- EXISTING CONCRETE CURB AND GUTTER

0 20 40
FEET

No.	Date	By	Revisions

VA FORM 08-6231, FEB. 1982

Architectural Edge Inc.
3010 Scott Blvd.
Suite 102
Temple, Texas
76504
254.771.2054 P
254.771.2144 F
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215 North Main Street, Temple, TX 76501
254.774.0599 www.clark-fuller.com F-10184

Drawing Title: SITE ELECTRIC AND GAS MAIN PLAN SHEET 1 STA 7+50 - END

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR GAW, P.E.

Building Number: SITE | Checked: MLC | Drawn: DGR

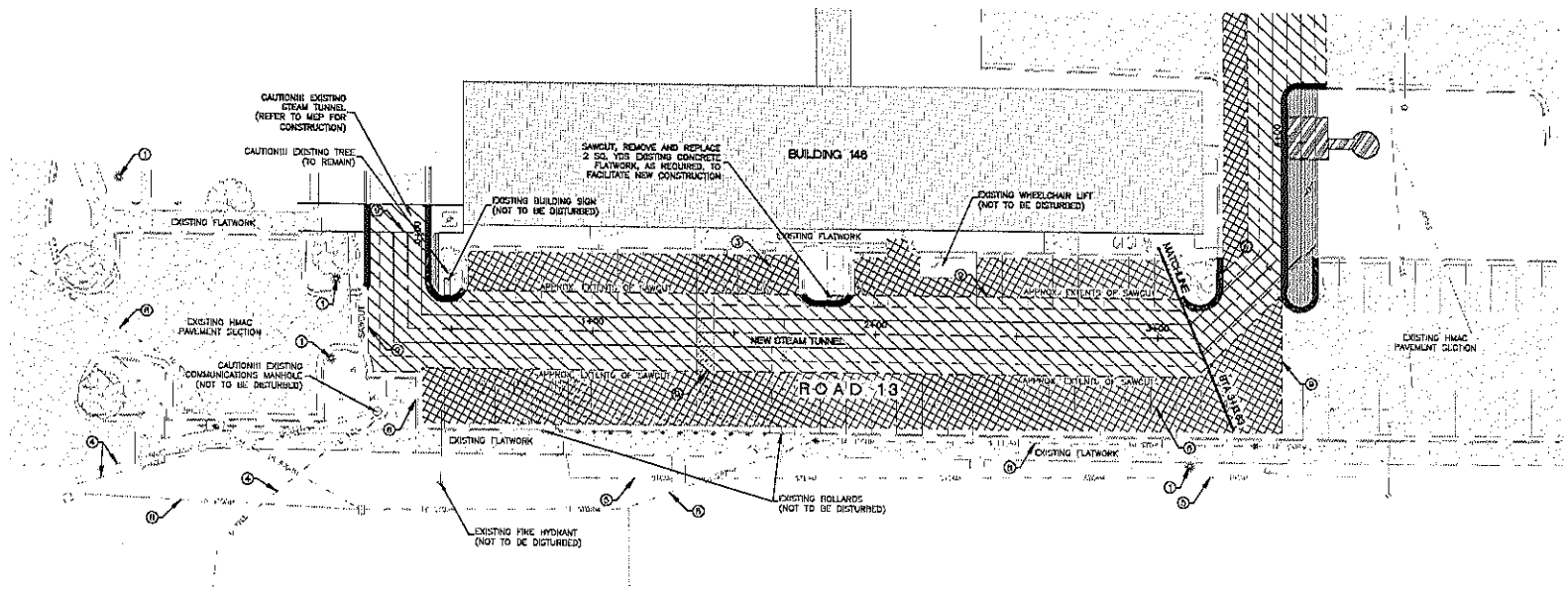
Location: TEMPLE VAMC – TEMPLE, TEXAS

Drawing No.: C4.6

Dwg. 14 of 28

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1993-400-225



1 ROAD 13

KEYED NOTES

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3. CONTRACTOR SHALL PROTECT AND BRACE EXISTING NON-GRAVITY FLOW UTILITIES SUCH AS FIBER OPTIC, ELECTRIC, GAS AND WATER FOR THE DURATION OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE SANITARY SEWER AND STORM SEWER BYPASS PUMPING AND TEMPORARY SANITARY SEWER AND STORM SEWER BYPASS GRAVITY MAIN.
5. CONTRACTOR TO RE-GRADE AND REWORK BASE TO FACILITATE DRAINAGE INTO NEW SUMP INLETS.
6. CONTRACTOR SHALL MAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING UTILITIES. IF ANY DAMAGE OCCURS TO EXISTING UTILITIES, DAMAGE IS TO BE REPAIRED IMMEDIATELY TO AT LEAST PRECEDING CONDITION AT NO ADDITIONAL COST TO THE OWNER.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION AND CONCRETE FLATWORK
- SAWCUT, REMOVE, AND REPLACE EXISTING HMAC PAVEMENT SECTION, AS REQUIRED, TO FACILITATE NEW STEAM TUNNEL CONSTRUCTION (PER DETAILS – SEE NOTES)
- CONTRACTOR SHALL MILL EXISTING HMAC PAVEMENT SECTION (PER TxDOT ITEM 354 PLANING AND/OR TEXTURING PAVEMENT) AND PROVIDE NEW 2" HMAC PAVEMENT SECTION (PER DETAILS – SEE NOTES)
- SAWCUT, REMOVE AND REPLACE EXISTING REINFORCED CONCRETE PAVEMENT SECTION (PER PROJECT DETAILS)
- NEW 6" SANDY LOAM TOPSOIL AND 410 DROUGHT RESISTANT BERMUDA GRASS SOD (4,950 SQ. YDS.)
- SAWCUT REMOVE AND REPLACE EXISTING CURB AND GUTTER (PER PROJECT DETAILS)
- EXISTING TREE (TO REMAIN – CONTRACTOR TO PROVIDE TREE PROTECTION, AS REQUIRED)

0 20 40 FEET

No.	Date	By	Revisions

VA Form 08-6231, FEB. 1983

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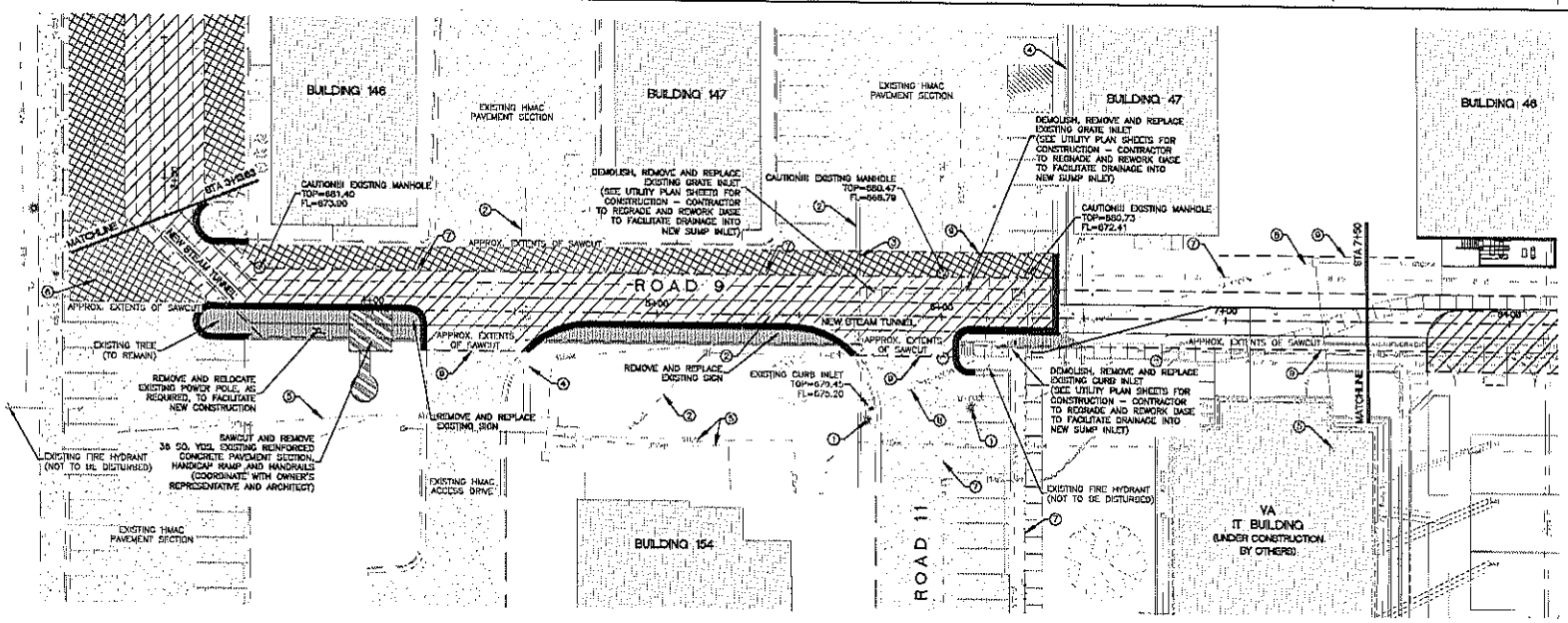
3010 Scott Blvd. Suite 302 Temple, Texas 76504
254.771.7054 P 254.773.2144 F
• architecture • design services • consultation
aiea@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
115 North Main Street, Temple, TX 76501
254.899.0999 www.clark-fuller.com F-10384

Drawing Title: PAVEMENT PLAN - SHEET 1 STA 0+00 - 3+13.63	Project Title: UNDERGROUND UTILITIES		Date: 3/1/13
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF	Building Number: SITE	Checked: MLC / Drawn: DGR	Project No. 674-10-101
Approved: Project Manager: VICTOR CAW, P.E.	Location: TEMPLE VAMC – TEMPLE, TEXAS		Drawing No. C5.1
			Dwg. 15 of 28

Veterans Affairs

GPO 1983-403-280



1 ROAD 9

KEYED NOTES

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
3. CAUTION!! EXISTING GAS MAIN/METER (SEE NOTE 3)
4. CAUTION!! EXISTING TELEPHONE/FIBER OPTIC (SEE NOTE 3)
5. CAUTION!! EXISTING STEAM LINE
6. CAUTION!! EXISTING WATER MAIN/METER (SEE NOTE 3)
7. CAUTION!! EXISTING SANITARY SEWER
8. CAUTION!! EXISTING STORM SEWER
9. SAWCUT, REMOVE AND REPLACE EXISTING HMAC AND BASE, AS REQUIRED, TO PROVIDE HMAC TIE IN

NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE DEMOLITION OF EXISTING STRUCTURES, PAVEMENT SECTIONS, VEGETATION, ETC. WITH OWNER.
2. EXISTING UTILITIES WERE LOCATED BY FIELD RESEARCH/OBSERVATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND COORDINATE UTILITY REMOVAL AND RELOCATION WITH OWNER AND APPROPRIATE UTILITY COMPANY.
3. CONTRACTOR SHALL PROTECT AND BRACE EXISTING NON-GRAVITY FLOW UTILITIES SUCH AS FIBER OPTIC, ELECTRIC, GAS AND WATER FOR THE DURATION OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE SANITARY SEWER AND STORM SEWER BYPASS PUMPING AND TEMPORARY SANITARY SEWER AND STORM SEWER BYPASS GRAVITY MAIN.
5. CONTRACTOR TO RE-GRADE AND REWORK BASE TO FACILITATE DRAINAGE INTO NEW SUMP INLETS.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION AND CONCRETE FLATWORK
- SAWCUT, REMOVE, AND REPLACE EXISTING HMAC PAVEMENT SECTION, AS REQUIRED, TO FACILITATE NEW STEAM TUNNEL CONSTRUCTION (PER DETAILS – SEE NOTES)
- CONTRACTOR SHALL MILL EXISTING HMAC PAVEMENT SECTION (PER TxDOT ITEM 354 PLANING AND/OR TEXTURING PAVEMENT) AND PROVIDE NEW 2" HMAC PAVEMENT SECTION (PER DETAILS – SEE NOTES)
- SAWCUT, REMOVE AND REPLACE EXISTING REINFORCED CONCRETE PAVEMENT SECTION (PER PROJECT DETAILS)
- NEW 8" SANDY LOAM TOPSOIL AND 410 DROUGHT RESISTANT BERMUDA GRASS SOD (4,950 SQ. YDS.)
- SAWCUT REMOVE AND REPLACE EXISTING CURB AND GUTTER (PER PROJECT DETAILS).
- EXISTING TREE (TO REMAIN – CONTRACTOR TO PROVIDE TREE PROTECTION, AS REQUIRED)

0 20 40 FEET

No.	Date	By	Revisions

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3010 Scott Blvd, Suite 102
Temple, Texas 76504
254.773.2054 P
254.773.2144 F
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email@archedge.com

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215 North Main Street, Temple TX 76501
254.778.8199 www.clark-fuller.com F-10184

Drawing Title: PAVEMENT PLAN - SHEET 2
STA 3+13.63 - 7+50

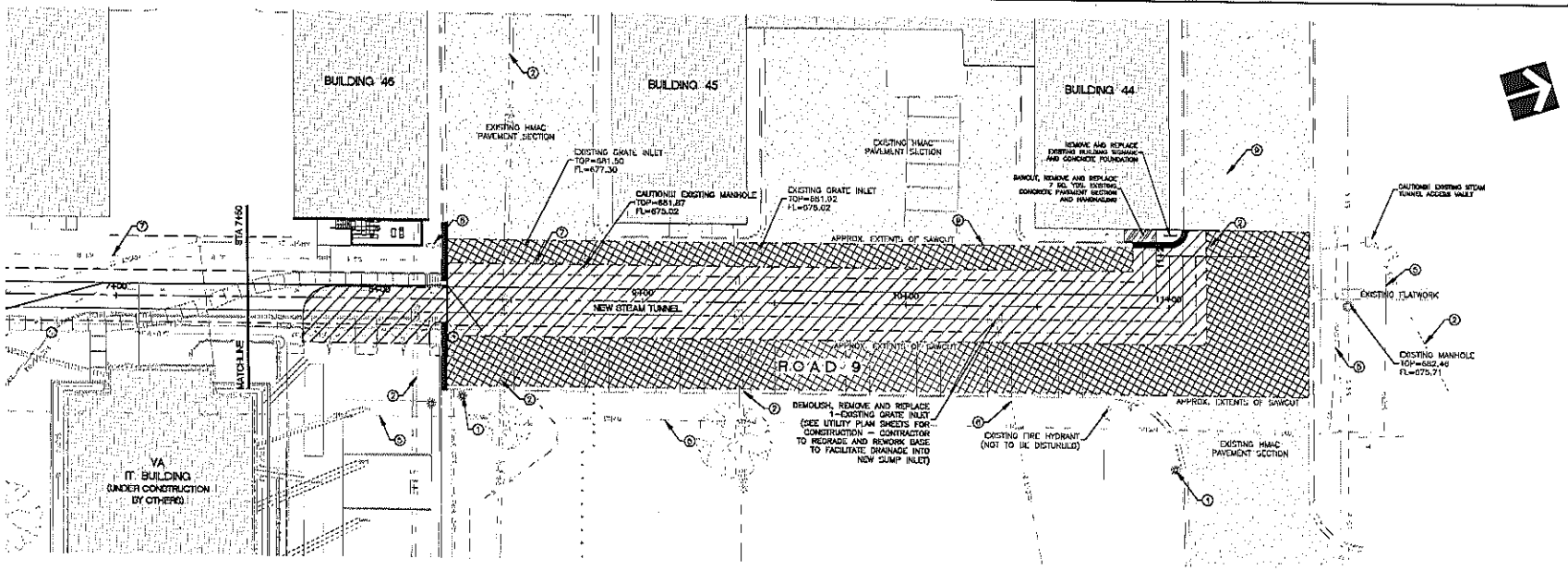
Project Title: UNDERGROUND UTILITIES

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF
Approved: Project Manager: VICTOR CAW, P.E.
Building Number: SITE
Checked: MLC
Drawn: DGR
Location: TEMPLE VAMC – TEMPLE, TEXAS

Date: 3/1/13
Project No. 674-10-101
Drawing No. C5.2
Dwg. 16 of 28

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1983-420-285



1 ROAD 9

KEYED NOTES ①

1. CAUTION!! EXISTING POWER POLE/LIGHTPOLE
2. CAUTION!! UNDERGROUND ELECTRIC (SEE NOTE 3)
3. CAUTION!! EXISTING GAS MAIN/METER (SEE NOTE 3)
4. CAUTION!! EXISTING TELEPHONE/FIBER OPTIC (SEE NOTE 3)
5. CAUTION!! EXISTING STEAM LINE
6. CAUTION!! EXISTING WATER MAIN/METER (SEE NOTE 3)
7. CAUTION!! EXISTING SANITARY SEWER
8. CAUTION!! EXISTING STORM SEWER
9. SAWCUT, REMOVE AND REPLACE EXISTING HMAC AND BASE, AS REQUIRED, TO PROVIDE HMAC TIE IN

NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE DEMOLITION OF EXISTING STRUCTURES, PAVEMENT SECTIONS, VEGETATION, ETC. WITH OWNER.
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5. CONTRACTOR TO RE-GRADE AND REWORK BASE TO FACILITATE DRAINAGE INTO NEW SUMP INLETS.

LEGEND

- EXISTING HMAC PAVEMENT SECTION
- EXISTING REINFORCED CONCRETE PAVEMENT SECTION AND CONCRETE FLATWORK
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- CONTRACTOR SHALL MILL EXISTING HMAC PAVEMENT SECTION (PER TxDOT ITEM 354 PLANING AND/OR TEXTURING PAVEMENT) AND PROVIDE NEW 2" HMAC PAVEMENT SECTION (PER DETAILS - SEE NOTES)
- SAWCUT, REMOVE AND REPLACE EXISTING REINFORCED CONCRETE PAVEMENT SECTION (PER PROJECT DETAILS)
- NEW 6" SANDY LOAM TOPSOIL AND 419 DROUGHT RESISTANT BERMUDA GRASS SOD (4,960 SQ. YDS.)
- SAWCUT REMOVE AND REPLACE EXISTING CURB AND GUTTER (PER PROJECT DETAILS)
- EXISTING TREE (TO REMAIN - CONTRACTOR TO PROVIDE TREE PROTECTION, AS REQUIRED)

0 20 40 FEET

3-1-13

MONTY L. CLARK 80804 REGISTERED PROFESSIONAL ENGINEER

No.	Date	By	Revisions

VA FORM 08-6231, TUL 1993

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3010 Scott Blvd.
Suite 102
Temple, Texas
76504
254.771.2054 P
254.773.2144 F
•architecture
•design services
•consultation
aine@archedge.com

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215 North Main Street, Temple, TX 76501
254.899.0899 www.clark-fuller.com F-10384

Drawing Title: PAVEMENT PLAN - SHEET 3
STA 7+00 - END

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Building Number: SITE | Checked: MLC | Drawn: DGR

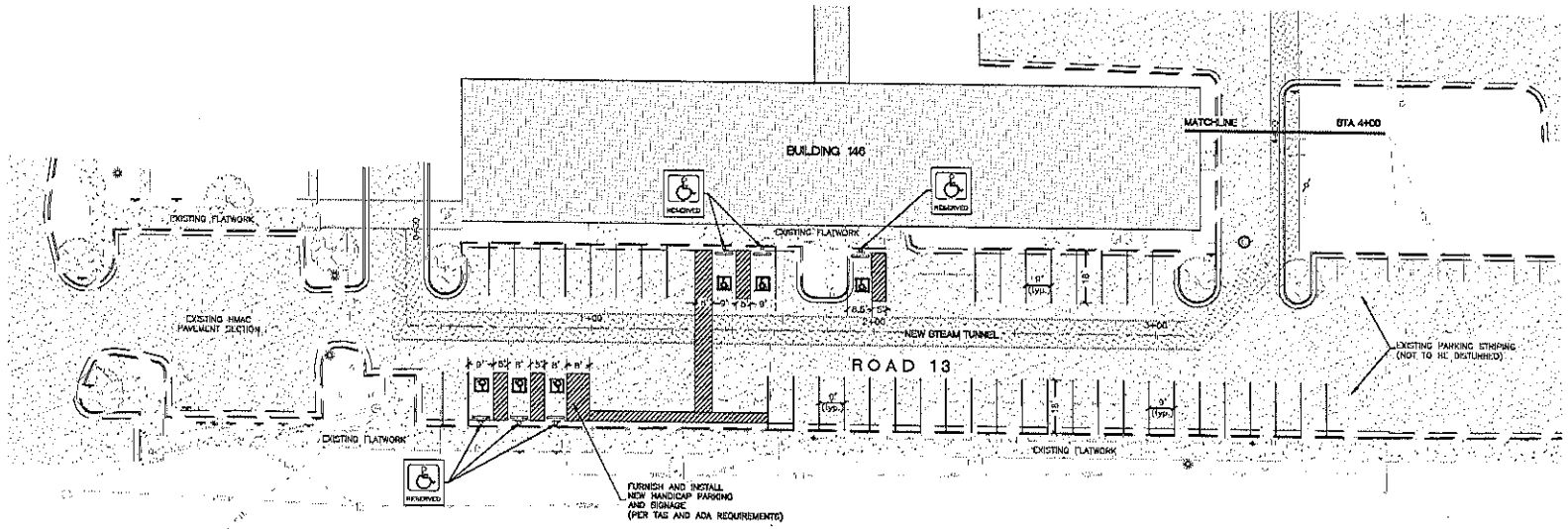
Location: TEMPLE VAMC - TEMPLE, TEXAS

Drawing No. C5.3

Sheet 17 of 28

Veterans Affairs

U.S. GOVERNMENT PRINTING OFFICE: 1983-403-240



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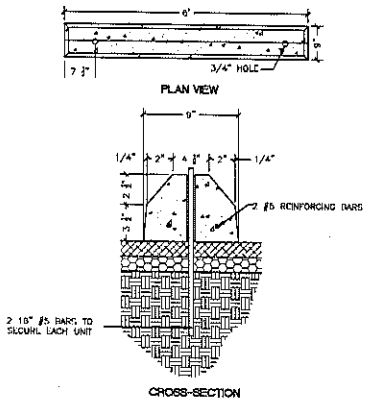
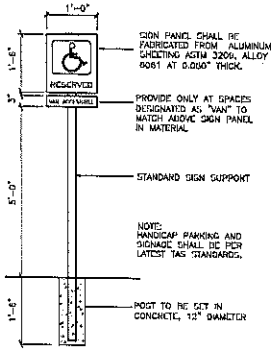


1 PRECAST CONCRETE WHEEL STOP
SCALE: N.T.S.



2 HANDICAP PARKING SIGN
SCALE: N.T.S.

NOTES

1. PAVEMENT MARKING SHALL BE TYPE I "HOT APPLIED THERMOPLASTIC" TXDOT ITEM 666 0445-6220.

LEGEND

RESERVED — FURNISH AND INSTALL 1-HANDICAP PARKING SIGN (PER MUTCD AND VETERAN'S ADMINISTRATION REQUIREMENTS)

— FURNISH AND INSTALL PRECAST CONCRETE WHEEL STOP (PER DETAILS)

0 20 40
FEET

3-1-13

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3030 Scott Blvd. Suite 102 Temple, Texas 76504
254.771.2654 P
254.773.2144 F
• architecture • design services • consultation
email@archedge.com

CLARK&FULLER
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple TX 76501
254.899.0899 www.clark-fuller.com F-10184

Drawing Title: STRIPING PLAN - SHEET 1
STA 0+00 - 4+00

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13

Project No.: 574-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF

Approved: Project Manager: VICTOR CAW, P.E.

Building Number: SITE | Checked: MLC | Drawn: DCR

Location: TEMPLE VAMC - TEMPLE, TEXAS

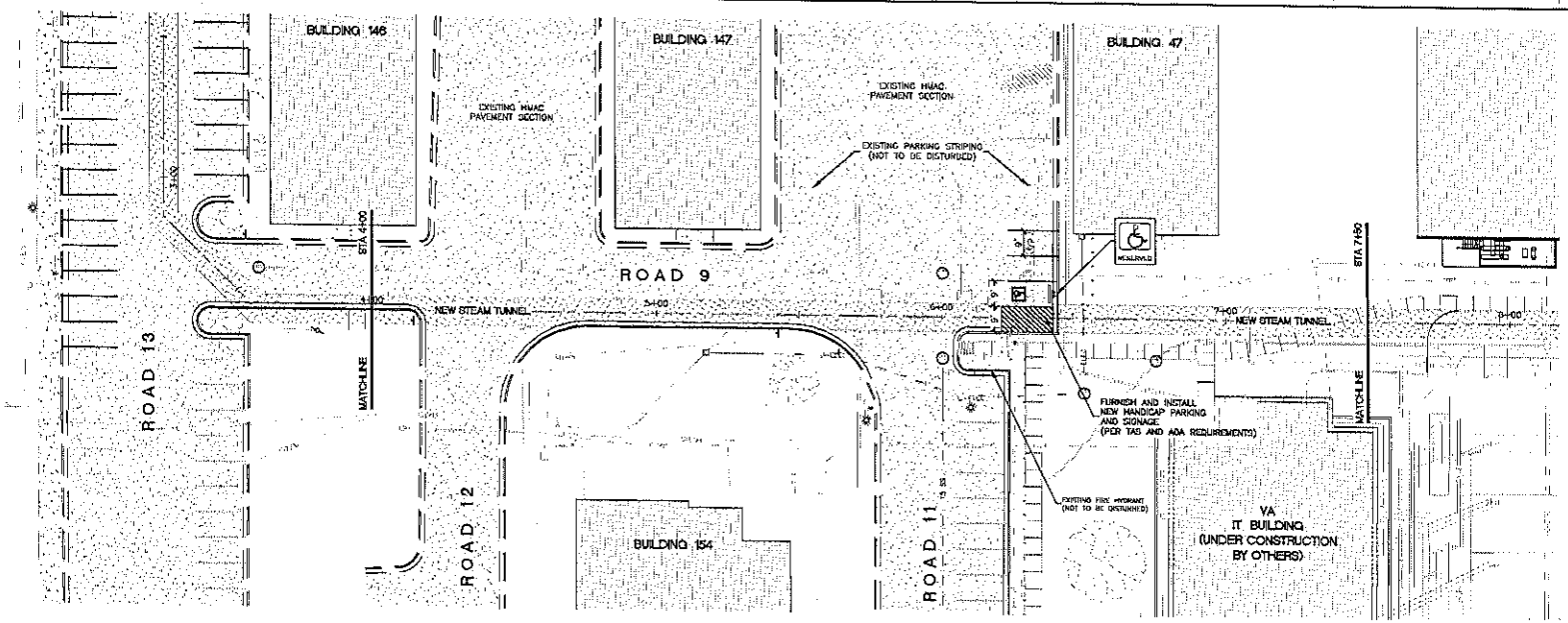
Drawing No. C6.1

Dwg. 18 of 28

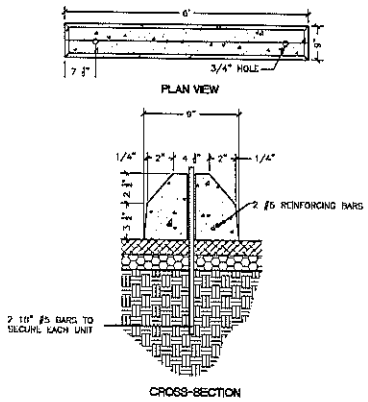
Veterans Affairs

VA FORM 06-0231, FEB. 1983

U.S. GOVERNMENT PRINTING OFFICE: 1983-402-285



1 ROAD 9



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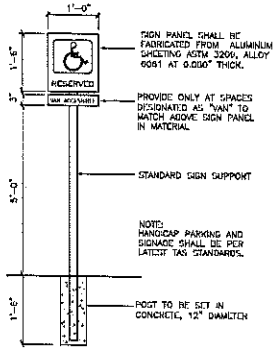

2 HANDICAP PARKING SIGN
SCALE: N.T.S.

NOTES:

1. PAVEMENT MARKING SHALL BE TYPE I "HOT APPLIED THERMOPLASTIC" TXDOT ITEM 666 DAG-8220.

LEGEND

RESERVED — FURNISH AND INSTALL 1-HANDICAP PARKING SIGN (PER MUTCD AND VETERAN'S ADMINISTRATION REQUIREMENTS)

FURNISH AND INSTALL PRECAST CONCRETE WHEEL STOP (PER DETAILS)

0 20 40
FEET

3-1-13

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3010 Scott Blvd. Suite 102 Temple, Texas 76504
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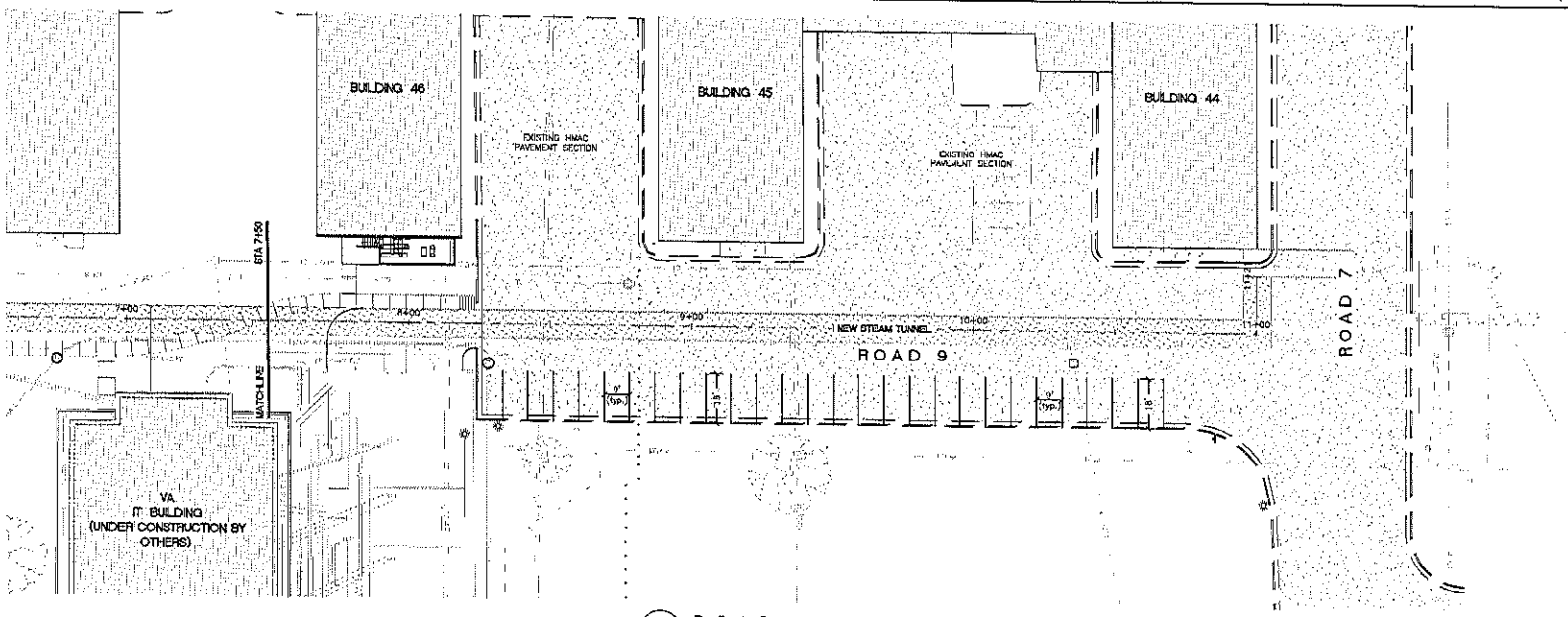
CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0899 www.clark-fuller.com F-10384

Drawing Title: STRIPING PLAN - SHEET 2 STA 4+00 - 7+50	Project Title: UNDERGROUND UTILITIES		Date: 3/1/13
Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF	Building Number: SITE	Checked: MLC / Drawn: DGR	Project No.: 674-10-101
Approved: Project Manager: VICTOR CAW, P.E.	Location: TEMPLE VAMC – TEMPLE, TEXAS		Drawing No.: C6.2
			Dwg. 19 of 28

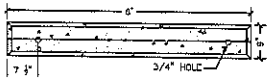
Veterans Affairs

VA FORM 08-6231, FEB. 1982

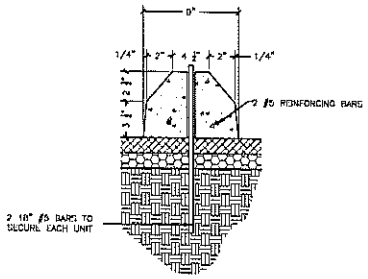
GPO: 1983-400-265



1 ROAD 9

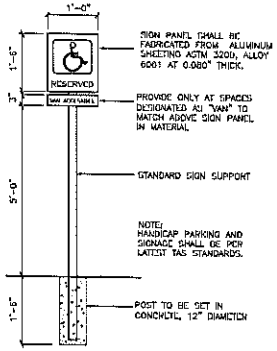


PLAN VIEW



CROSS-SECTION

1 PRECAST CONCRETE WHEEL STOP
SCALE: N.T.S.



2 HANDICAP PARKING SIGN
SCALE: N.T.S.

NOTES:

1. PAVEMENT MARKING SHALL BE TYPE I "HOT APPLIED THERMOPLASTIC" TXDOT ITEM 666 DMS-8220.

LEGEND

RESERVED — FURNISH AND INSTALL 1-HANDICAP PARKING SIGN (PER MUTCD AND VETERAN'S ADMINISTRATION REQUIREMENTS)

— FURNISH AND INSTALL PRECAST CONCRETE WHEEL STOP (PER DETAILS)

0 20 40
FEET

3-1-13

MONTY T. CLARK
96694
LICENSED
PROFESSIONAL ENGINEER
TEXAS

No.	Date	By	Revisions

Architectural Edge Inc.
3010 Scott Blvd. Suite 102 Temple, Texas 76504
254.771.2054 P
254.773.2144 F
•architecture •design services • consultation
email@archedge.com

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CIVIL ENGINEERING • DESIGN • PLANNING
215 North Main Street, Temple, TX 76501
254.899.0899 www.clark-fuller.com F-10184

Drawing Title: STRIPING PLAN - SHEET 3
STA 7+50 - END

Project Title: UNDERGROUND UTILITIES

Date: 3/1/13
Project No. 674-10-101

Approved: Chief, Engineering Services: DAVID SUMMERS, CHIEF
Approved: Project Manager: VICTOR CAW, P.E.
Building Number: SITE
Checked: MLC
Drawn: DGR
Location: TEMPLE VAMC - TEMPLE, TEXAS
Drawing No. C6.3
Dwg. 20 of 28

Veterans Affairs

VA FORM 08-6231, FEB. 1982
U.S. GOVERNMENT PRINTING OFFICE: 1983-420-283