

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:
Kansas One-Call 687-2470
The Contractor must notify the following in case of an emergency:
AT&T 1-800-246-8464
Black Hills Energy 1-800-694-8989
City of Wichita Water & Sewer 1-316-219-8921
City of Wichita Stormwater 1-316-268-4090
City of Wichita Traffic 1-316-268-4034
Cox Communications 1-888-249-3530
Kansas Gas Service 1-888-482-4950
Westar Energy 1-800-544-4857
- Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the City Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- The Engineering Division shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match final grades by the contractor.
- The Contractor shall notify the inspecting engineer and Dawnita Reinhardt at 316-268-4574 with the City of Wichita with the anticipated construction start date and notify them of project completion. Staking and inspection for this project will be the responsibility of the Contractor.
- If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Mike Armour at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractor's responsibility.
- All elevations shown are NAVD 88.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

Floodplain Note:

According to the F.E.M.A. Flood Insurance Rate Map Number 20173C0502G, revised December 22, 2016, this tract graphically lies:
- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, ZONE AE, defined as Base Flood Elevations determined.
- OTHER FLOOD AREAS, ZONE X SHADED, defined as areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER FLOOD AREAS, ZONE X STRIPED, defined as areas with reduced flood risk due to Levee.

Legal Description - Tract B

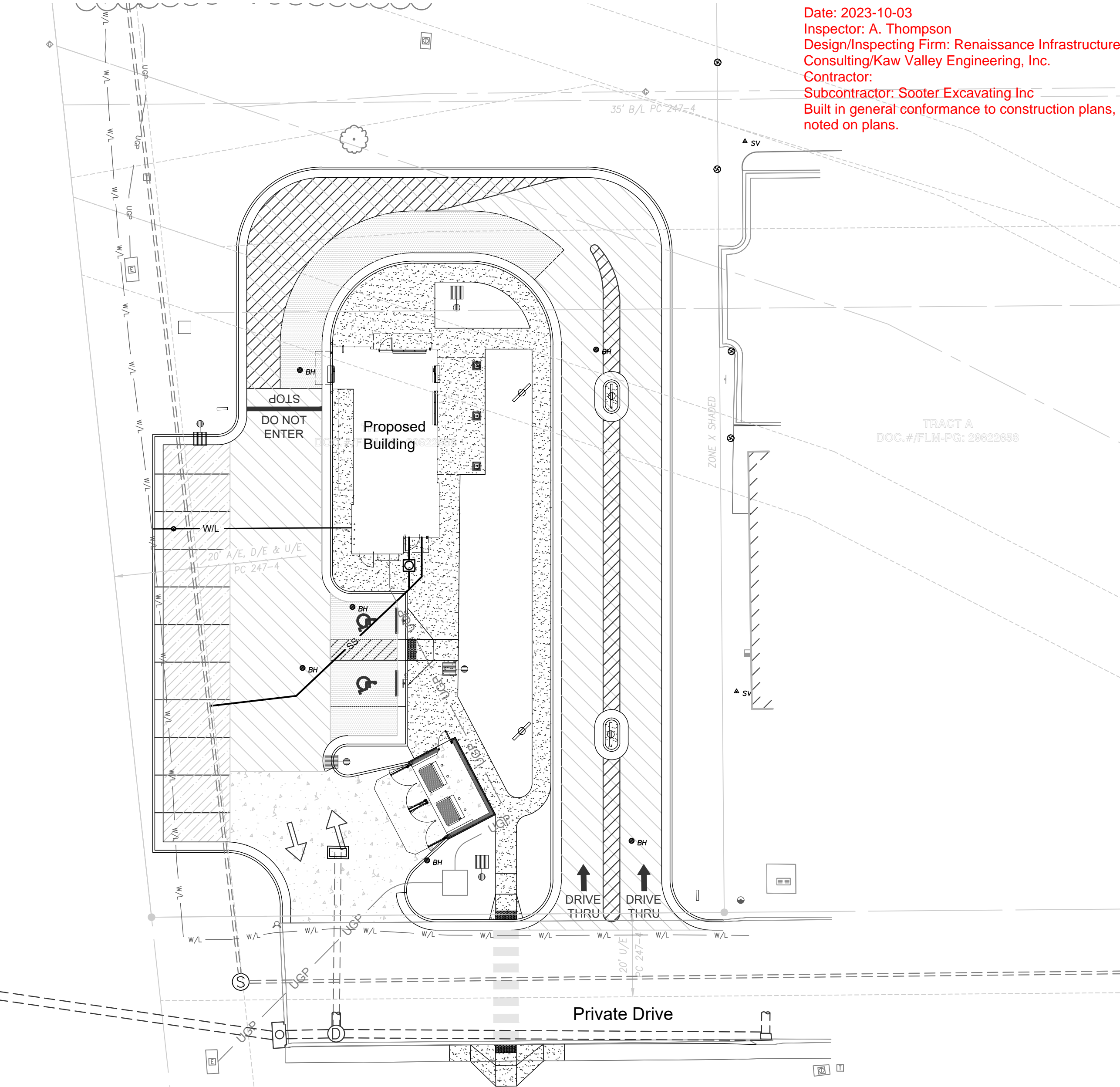
Lot 8, Block 1 Except The East 273.23 Feet, Southfork Commercial Addition, Wichita, Sedgwick County, Kansas.

Survey Benchmark and Control

BM #1098: Set Chiseled Square Located on the SW corner of neighboring properties Transformer Pad. Elev. 1273.87

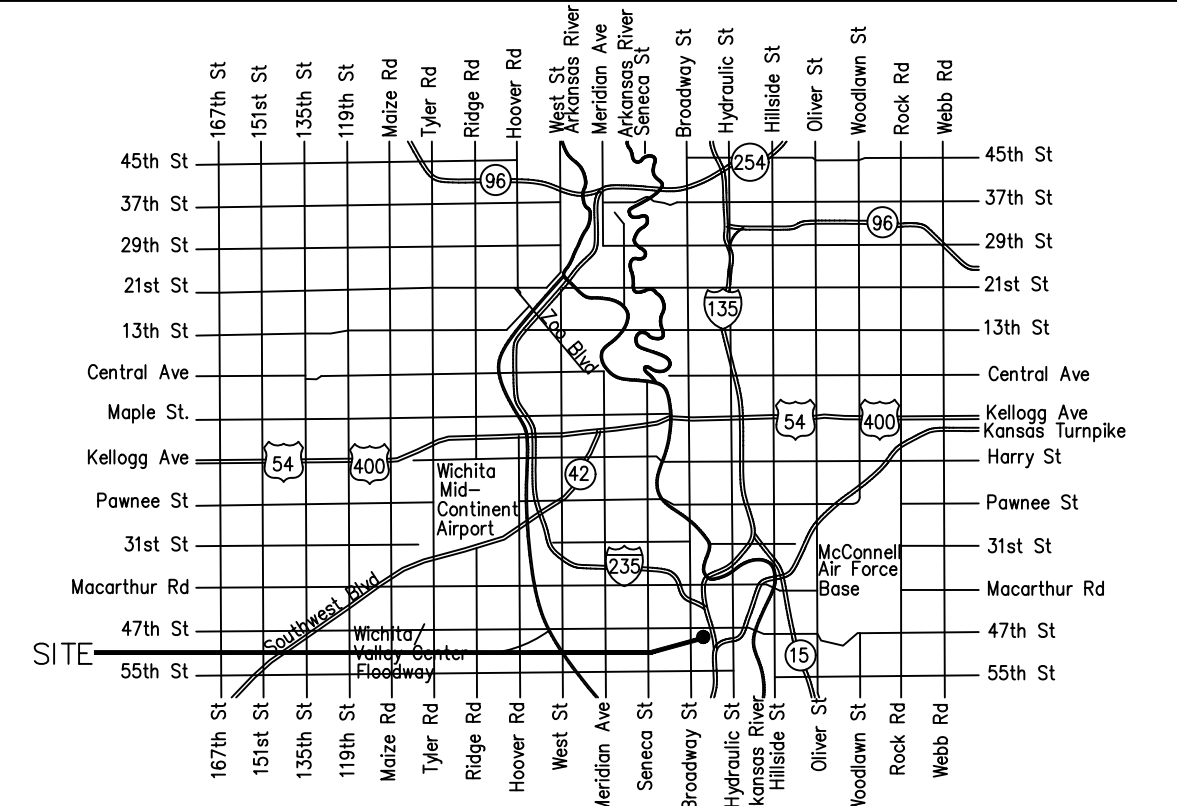
CP #2: Set 1/2" Iron Bar w/ Control Cap
N: 1657319.04
E: 1652070.30
Elev: 1278.42

Storm Sewer Plans to Serve Dutch Bros. Coffee 4823 S Washington Ave. Wichita, Sedgwick County, Kansas Paul Gunzelman, P.E. City Engineer 2023-000831PPD (56030970)



Date: 2023-10-03
Inspector: A. Thompson
Design/Inspecting Firm: Renaissance Infrastructure Consulting/Kaw Valley Engineering, Inc.
Contractor:
Subcontractor: Sooter Excavating Inc
Built in general conformance to construction plans, except where noted on plans.

LEGEND		
Existing Section Line	-----	Proposed Right-of-Way
Existing Right-of-Way Line	-----	Proposed Property Line
Existing Lot Line	-----	Proposed Lot Line
Existing Easement Line	-----	Proposed Easement
Existing Curb & Gutter	-----	Proposed Curb & Gutter
Existing Sidewalk	-----	Proposed Sidewalk
Existing Storm Sewer	-----	Proposed Storm Sewer
Existing Storm Structure	□	Proposed Storm Structure
Existing Waterline	-----	Proposed Fire Hydrant
Existing Gas Main	-----	Proposed Waterline
Existing Sanitary Sewer	-----	Proposed Sanitary Sewer
Existing Sanitary Manhole	●	Proposed Sanitary Manhole
Existing Contour Major	-----	Proposed Contour Major
Existing Contour Minor	-----	Proposed Contour Minor
Existing Underground Power Line	-----	Future Curb and Gutter



Vicinity Map

Sheet List Table	
Sheet Number	Sheet Title
C01	Title Sheet
C02	General Notes
C03	Site Plan
C04	Storm Plan
C05	Erosion Control Plan I
C06	Erosion Control Plan II
C07	Erosion Control Plan III
C08	Standard Detail PV-101
C09	Standard Detail SW-201
C10	Standard Detail SW-303
C11	Standard Detail SW-501
C12	Standard Detail SW-502
C13	Standard Detail SW-503
C14	Standard Detail SW-504
C15	Standard Detail SW-505

Stormwater Certification
New Development
Stormwater Permit #: SWO2023-0040
NOI Permit #: N/A Disturbed Area Under 1 Ac.

These construction plans were prepared in accordance with the current Stormwater Management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area: 0.78 Ac.
Disturbed Area: 0.52 Ac.

Water Quality Treatment: OBMP
Downstream Channel Protection: N/A
Detention: N/A
BMP: OBMP Document Provided

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEER
AND STORMWATER DIVISION

Engineering *Shawn Melliss* 09/29/2023
Stormwater *Joe Wicks* 09/29/2023

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner / Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the State of Kansas. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An Approved copy of these plans signed by City staff are required on-site.

Private Project Drainage Plan
21-0180-27
Dutch Bros. Coffee
Wichita, Sedgwick County, Kansas

Title Sheet

NO.	DATE	REVISION
3	10/02/2023	Per City Comments
2	7/21/2023	Per City Comments
1	07/12/2023	City Comments
	08/20/2023	Original Submittal

DRAWN BY: CMK CHECKED BY: CMK

Renaissance Infrastructure Consulting
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www.ri-consult.com

6652 PENROSE LANE
LENEKA, KANSAS 66219

KS Certificate of Authority: E-1814

CHASE KOHLER
LICENSED PROFESSIONAL ENGINEER
28777
10/02/2023
KANSAS

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C01

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SITE UTILITY NOTES

1. The contractor is specifically cautioned that the location and/or elevation of existing utilities as Shown on these plans is based on records of the various utility Companies, and where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility companies at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to coordinate with and relocate and/or remove all existing utilities which conflict with the proposed improvements shown on the plans.
2. The construction of storm sewers on this project shall conform to the requirements of the City of Wichita Technical Specifications and Design Criteria.
3. The contractor shall field verify the exact location and elevation of the existing storm sewer locations and the existing elevations at locations where the proposed storm sewer collects or releases to existing ground. If discrepancies are encountered from the information shown on the plans. The contractor shall contact the design engineer. No pipes shall be laid until direction is received from the design engineer.
4. It will be the contractor's responsibility to field adjust the top of all manholes and boxes as necessary to match the grade of the adjacent area. Tops of existing manholes shall be raised as necessary to be flush with proposed pavement elevations, and to be 6-inches above finished ground elevations in non-paved areas. No separate or additional compensation will be made to the contractor for making final adjustments to the manholes and boxes.
5. Inlet locations, horizontal pipe information and vertical pipe information is shown to the center of the structure. Deflection angles shown for storm sewer pipes are measured from the center of the curb inlets and manholes. The contractor shall adjust the horizontal location of the pipes to go to the face of the boxes. All roof drains shall be connected to storm sewer structures. Provide cleanouts on roof drain lines at 100' max. spacing and at all bend points. Do not connect roof drains directly to storm sewer pipes.
6. The contractor shall be responsible for furnishing and installing all fire and domestic water lines, meters, back flow devices, pits, valves and all other incidentals required, for a complete operable fire protection and domestic water system. All costs associated with the complete water system for the building shall be the responsibility of the contractor. All work shall conform to the requirements of Wichita, Sedgwick County.
7. The contractor shall be responsible for furnishing and installing all sanitary sewer service lines from the building to the public line. The contractor shall refer to the architectural plans for specific locations and elevations of the service lines of the building connection. All work shall conform to the requirements of Wichita, KS.
8. The contractor is responsible for securing all permits, bonds and insurance required by the contract documents, Wichita, and all other governing agencies (including local, county, state and federal authorities) having jurisdiction over the work proposed by the construction documents. The cost for all permit bonds and insurance shall be the contractor's responsibility and shall be included in the bid for the work.
9. By the use of these construction documents the contractor hereby agrees that he/she shall be solely responsible for the safety of the construction workers and the public. The contractor agrees to hold the engineer and owner harmless for any and all injuries, claims, losses or damages related to the project.
10. The contractor shall be responsible for furnishing all materials, tools and equipment and installation of electrical power, telephone and gas service from a point of connection from the public utility lines to the building structure. This will include all conduits, service lines, meters, concrete pads and all other incidentals required for a complete and operational system as required by the owner and the public utilities. Refer to building plans for exact tie-in locations of all utilities. Contractor shall verify connection points prior to installation of utility line.
11. All fill material is to be in place, compacted, and consolidated before installation of proposed utilities. On-site geotechnical engineer shall provide written confirmation that this requirement has been met and that utilities may proceed in the fill areas. All utilities are to be placed in trench conditions.
12. Contractor shall notify the utility authorities inspectors 49 hours before connecting to any existing line.
13. Storm sewer roof drains(st) shall be as follows (unless otherwise shown on plans).
-PVC SDR 35 per ASTM D3034, for pipes less than 12' deep.
-PVC SDR 26 per ASTM D3034, for pipes 12' to 20' deep.
14. Waterlines shall be as follows (unless otherwise shown on plans):
-for 8" and larger: ductile iron pipe per AWWA C150
-between 2" and 6": copper tube Type "K" per ANSI 816.22 OR ductile iron pipe per AWWA C150
-For smaller than 2": copper tube Type "K" per ANSI 816.22 OR HDPE 4710
15. Minimum trench width shall be 2 feet.
16. Contractor shall maintain a minimum of 42" of cover on all waterlines. All water line joints are to be mechanical joints with thrust blocking as called out in specifications and construction plans. Water mains and service lines shall be constructed in accordance to the Board of Public Utilities specifications for commercial services.
17. All waterlines shall be kept ten feet (10') apart (parallel) from sanitary sewer lines or manholes. Or when crossing, an 18" vertical clearance (outside edge of pipe to outside edge of pipe) of the waterline above the sewer line is required.
18. Trench Drain shall be ACO S200K or approved equal.
19. Trench Drain shall be installed in accordance with the manufacturer's installation instructions and recommendations.
20. In the event of a vertical conflict between waterlines, sanitary lines, storm lines and gas lines (existing and proposed), the sanitary line shall be ductile iron pipe with mechanical joints at least 10 feet on both sides of the crossing (or encased in concrete the same distance), the waterline shall have mechanical joints with appropriate thrust blocking as required to provide a minimum of 18" clearance. Meeting requirements ANSI A21.10 or ANSI 21.11 (AWWA C151)(Class 50).
21. All underground storm, sanitary, water and other utility lines shall be installed, inspected and approved before backfilling. Failure to have inspection approval prior to backfill will constitute rejection of work.
22. All necessary inspections and/or certifications required by codes and/or utility service companies shall be performed prior to announced building possession and the final connection of service. Contractor shall coordinate with all utility companies for installation requirements and specifications.
23. refer to building plans for site lighting electrical plan, irrigation, parking lot security system and associated conduit requirements. Coordinate with Owner that all required conduits are in place and tested prior to paving.
24. When a building utility Connection from site utilities leading up to the building cannot be made immediately, temporarily mark all such utility terminations.

GENERAL NOTES

1. All work in public easements and right of way and all erosion control work must comply with the latest edition of the Technical Provisions & Standard Drawings for Roads and Sewers, of Wichita, Sedgwick County, Kansas. If any general notes conflict with the Technical Provisions & Standard Drawings for Roads and Sewers, of Wichita, Sedgwick County, Kansas, the Cities standards shall override.
2. All traffic control shall be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD).
3. The contractor is responsible for the protection of all property corners and section corners. Any property corners and/or section corners disturbed or damaged by construction activities shall be reset by a Registered Land Surveyor licensed in the State of Kansas, at the contractor's expense.
4. The contractor shall be responsible for the restoration of the right-of-way and for damaged improvements such as curbs, driveways, sidewalks, street light and traffic signal junction boxes, traffic signal loop lead ins, signal poles, irrigation systems, etc. Damaged improvements shall be repaired in conformance with the latest City standards and to the City's satisfaction.
5. The contractor is responsible for providing erosion and sediment control BMPs to prevent sediment from reaching paved areas, storm sewer systems, drainage courses and adjacent properties. In the event the prevention measures are not effective, the contractor shall remove any debris, silt, or mud and restore the right-of-way, or adjacent properties to original or better condition.
6. The contractor shall remove existing trees and shrubbery within the right-of-way adjacent to future thoroughfare improvements.
7. The contractor shall sod all disturbed areas within the public street right-of-way unless otherwise noted on the plans or if specific written approval is granted by the City.
8. All public street sidewalk ramps constructed will be required to comply with the Americans with Disabilities Act (ADA) and Wichita, Kansas sidewalk details.
11. Excavation for utility work in public street right-of-way requires a Right-of-Way Work Permit from the Public Works Department, in addition to all other permits.
12. All work shall be confined within easements and/or construction limits as shown on the plans.
13. Any existing and/or temporary storm sewer pipes and box culverts to be abandoned in place shall be grouted using a slurry grout mixture meeting a 7-day compressive strength of 100-150 psi. The slurry grout mixture of fly ash, cement, fine aggregate, forming agents and water shall be approved by the City and shall possess adequate flow characteristics to fill all voids.
14. All existing utilities indicated on the drawings are according to the best information available to the engineer; however, all utilities actually existing may not be shown. The contractor shall be responsible for contacting all utility companies for an exact field location of each utility prior to any construction. All utilities, shown and un-shown, damaged through the negligence of the contractor shall be repaired or replaced by the contractor at his expense.
15. The contractor will be responsible for all damages to existing utilities, pavement, fences, structures, and other features not designated for removal. The contractor shall repair all damages at his expense.
16. By use of these construction documents the contractor hereby agrees that he shall be solely responsible for the safety of the construction workers and the public. The contractor agrees to hold the engineer and owner harmless for any and all injuries, claims, losses, or damages related to the project.
17. The contractor will be responsible for providing all signage, barricades, lighting, etc., as required for temporary traffic control during the construction of this project. Maintenance of the temporary traffic control devices will be the contractor's responsibility. All traffic control in conduction with construction in the right-of-way shall be in conformance with the City Traffic Control Requirements.
18. Geogrid, footings, or other elements of the retaining wall(s) cannot encroach into the right of way, public easements, or adjacent private property.
19. All building and life safety issues shall comply with the 2012 International Fire Code and local amendments as adopted by Wichita, Kansas
20. Contractor shall restore all disturbed right-of-way upon project completion.
21. Prior to construction, contractor shall install pre-construction erosion control measures.

EARTHWORK NOTES:

1. CONTOURS AND ELEVATIONS: Existing and proposed contours are shown on plans at one foot (1') contour intervals, unless otherwise noted. Proposed contours and elevations shown represent approximate finish grade.
2. CLEARING AND GRUBBING: Prior to the start of grading and earthwork, the areas to be graded shall be stripped of all vegetation, organic matter, and topsoil, to a minimum depth of four inches (4") or as otherwise directed by the Geotechnical Engineer. Stripping materials shall not be incorporated into structural fills. Topsoil materials shall not be used in building and pavement areas.
3. TOPSOIL: Prior to the start of grading, the contractor shall strip all topsoil from areas to be graded and stockpile at a location on or adjacent to the site as directed by the owner. At completion of grading operations and related construction, the contractor will be responsible for redistribution of topsoil over all areas disturbed by the construction activities. Topsoil shall be placed to a minimum depth of six inches (6") and in accordance with specifications for landscaping.
4. SUBGRADE PREPARATION: Prior to placement of new fill material, the existing subgrade shall be proof rolled and approved under the direction of the Geotechnical Engineer or his representative.
5. proof rolling: Prior to the placement of new fill material, the existing subgrade shall be proof rolled and approved under the direction of the Geotechnical Engineer. Unsuitable areas identified by the proof rolling areas shall be undercut and replaced with controlled structural fill or treated with fly ash per the Geotechnical report.
6. EARTHWORK:
 - A. GEOTECHNICAL: All earthwork shall conform to the recommendations of the Geotechnical report.
 - B. SURFACE WATER: Surface water shall be intercepted and diverted during the placement of fill.
 - C. FILLS: All fills shall be considered controlled or structural fill and shall be free of vegetation, organic matter, topsoil, and debris. All fill required for project shall be provided by the Contractor. Material Shall be pre-approved by the Engineer prior to placement.
 - D. EXISTING SLOPES: Where fill material is to be placed on existing slopes greater than 5:1 (horizontal to vertical), existing slope shall be benched providing a minimum vertical face of twelve inches (12"). Fill material shall be placed and compacted in horizontal lifts not exceeding nine inches (9") (loose fit measurement), unless otherwise approved by the Geotechnical Engineer.
 - E. COMPACTION REQUIREMENTS: Earth fill material shall be placed and compacted to a minimum density of ninety five percent (95%) of the material's maximum dry density as determined by ASTM D698 (standard proctor compaction). The moisture content at the time of placement and compaction shall be within a range of -2% to 3% above the optimum moisture content as defined by the standard proctor compaction procedure. The moisture contents shall be maintained within this range until completion of the work. Where compaction of earth fill by a large roller is impractical or undesirable, the earth fill shall be hand compacted with small vibrating rollers or mechanical tampers.
7. TESTING AND INSPECTION: Testing and inspection services required to make tests required by the specifications and to observe the placement of fills and other work performed on this project shall be provided by a commercial testing laboratory (Geotechnical Engineer) selected by the owner. The cost of testing will be the owner's responsibility.
8. SEEDING: All areas disturbed by earthwork operations in the right-of-way shall be seeded.

SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
1	4' x 2' Double Drop Inlet	1	EA
2	Seeding	1	LS
3	Erosion Control	1	LS
4	Connection to Existing Storm Sewer	1	LS

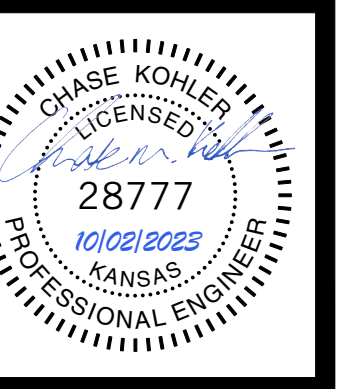
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21-0180-27
Dutch Bros. Coffee
Wichita, Sedgwick County, Kansas

General Notes

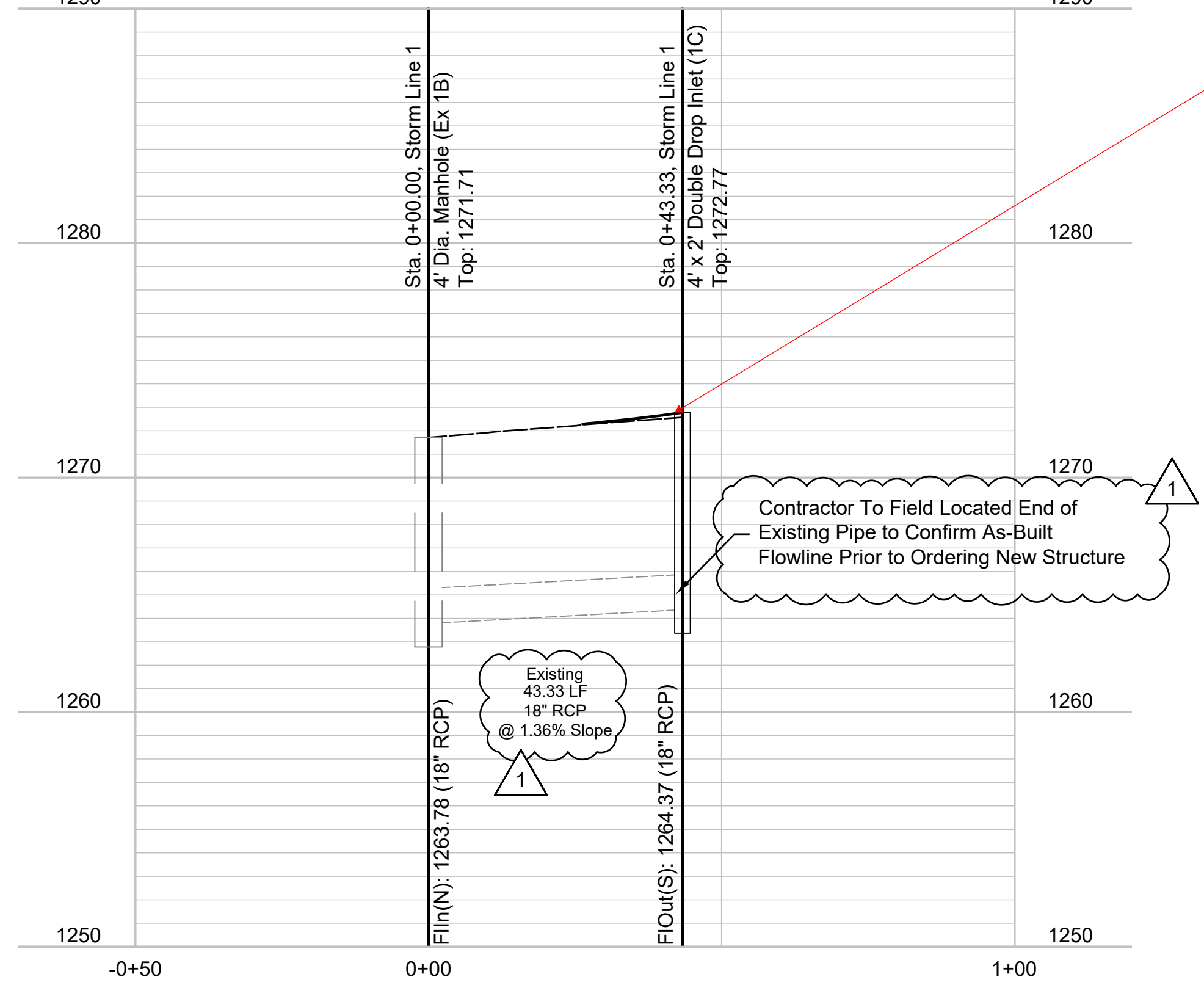
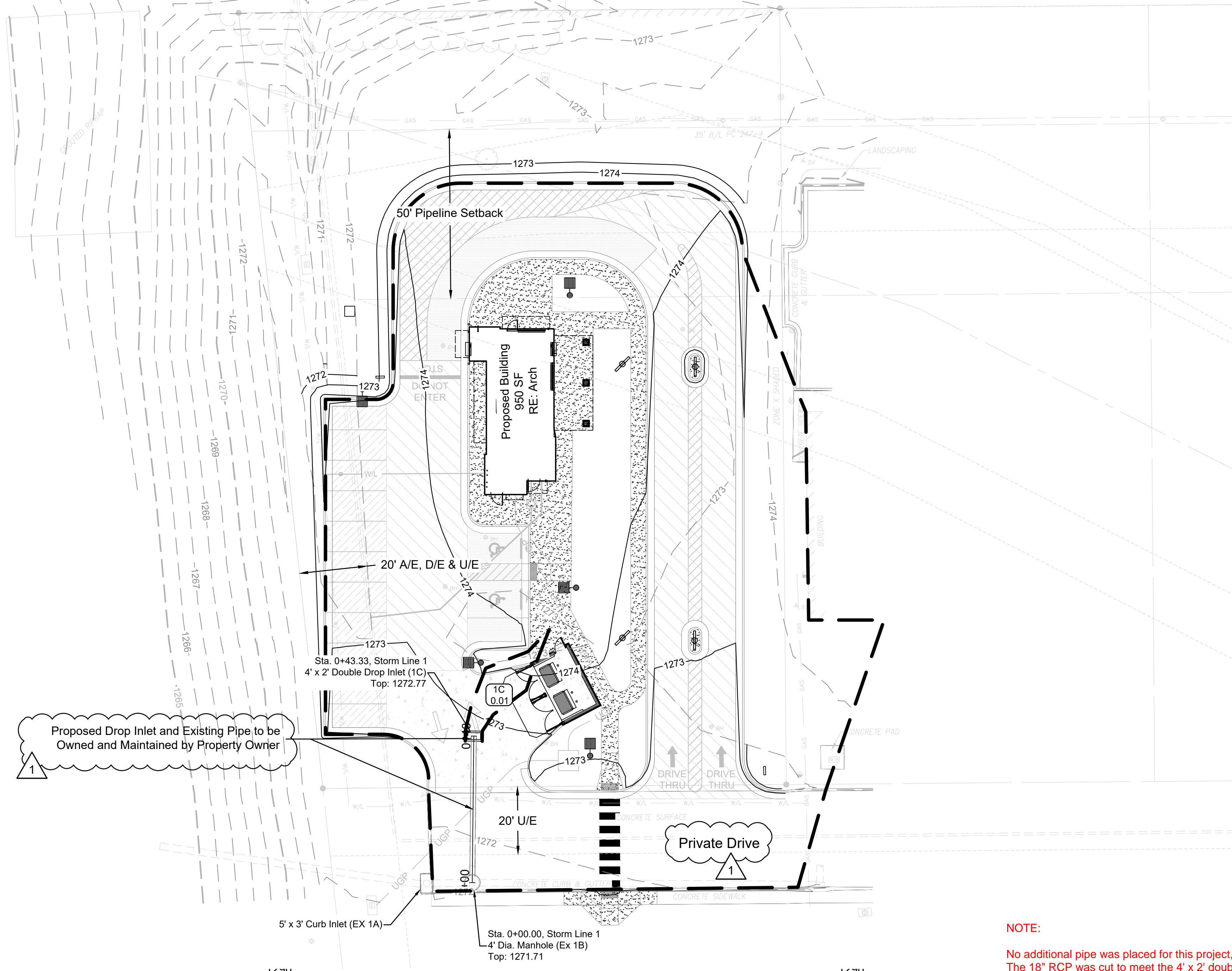
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NO.	DATE	REVISION

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KS Certificate of Authority

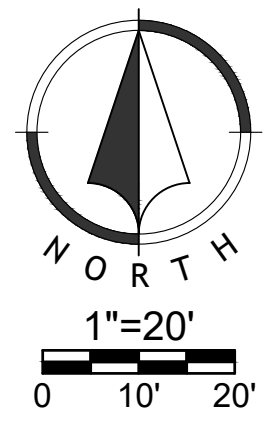


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NOTE:
 No additional pipe was placed for this project.
 The 18" RCP was cut to meet the 4' x 2' double drop inlet box.

Contractor To Field Located End of Existing Pipe to Confirm As-Built Flowline Prior to Ordering New Structure



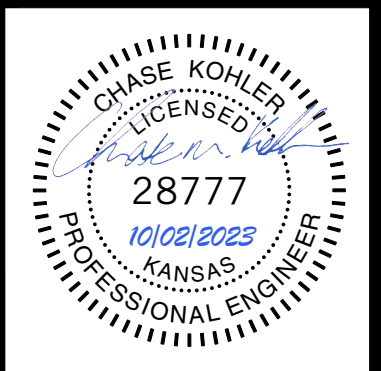
Private Project Drainage Plan
 21-0180-27
 Dutch Bros. Coffee
 Wichita, Sedgwick County, Kansas

Storm Plan

NO.	DATE	REVISION
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2	7/21/2023	Per City Comments
1	07/12/2023	City Comments
	08/20/2023	Original Submittal

DRAWN BY: CMK
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