

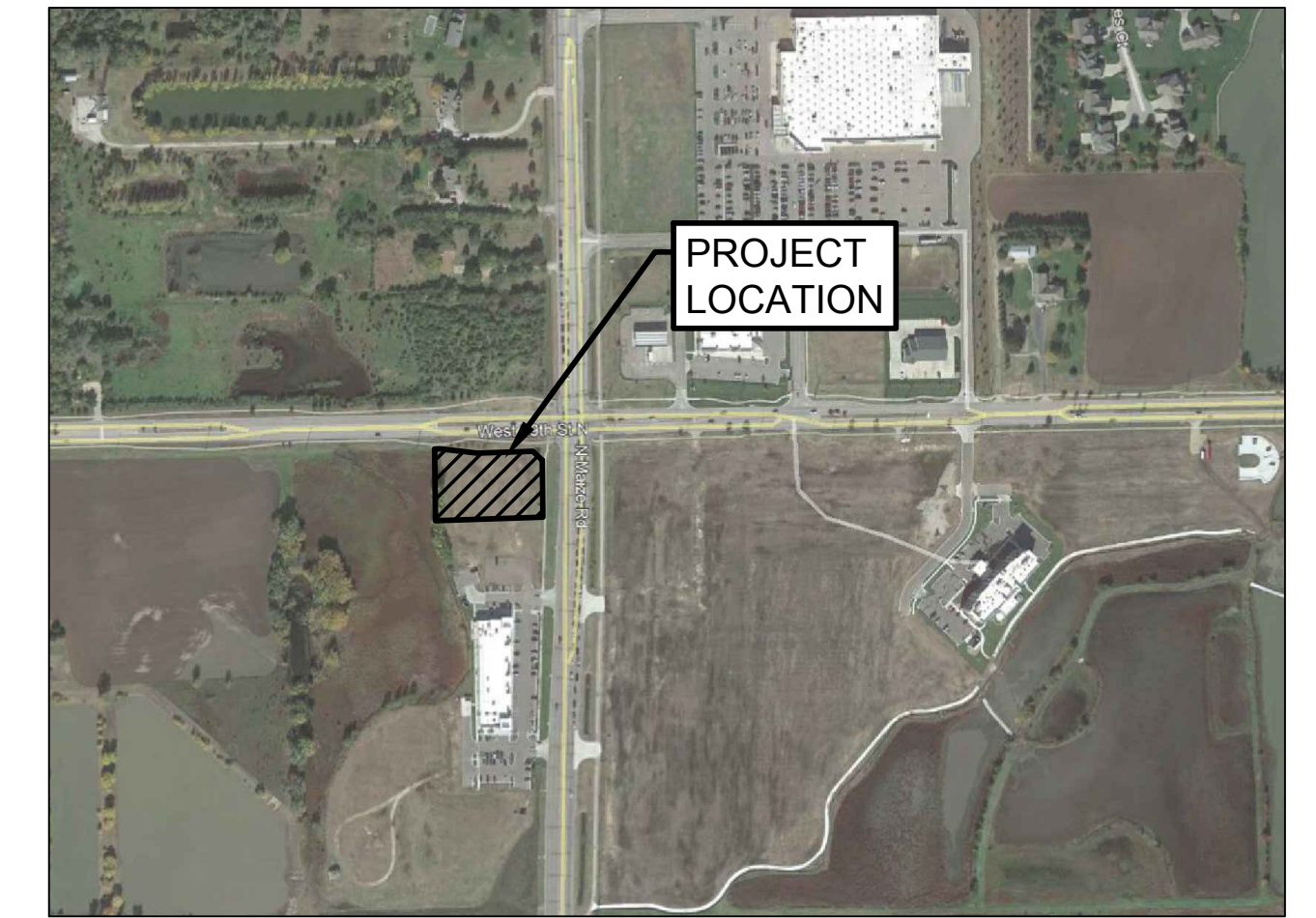
**GENERAL NOTES:**

- 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:  
A&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  
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](mailto: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 Contractors 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.
- Any sidewalk, drive approach, or street pavement removed to construct project must have a pavement cut permit and be replaced by the City contractor. Permits can be obtained by calling 316-268-4501 or 316-268-4480.
- City maintenance of storm sewer ends at the last structure in the easement or right-of-way.
- A portion of excess excavated material shall be mounded around manholes which extend more than one (1) foot above the existing ground. Such mound shall be constructed with new development a six (6) foot diameter flat top with 4 to 1 side slopes down to the original ground. The elevation of the flat top of the mound shall be 0.4 foot below the top to the manhole.
- Geotechnical report available upon request.
- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
- The inspecting firm shall submit to the City Stormwater Maintenance Division a digital copy of the CCTV inspection of the conduits and structures following construction. The digital file formation shall be compatible with the City input template. A copy of the template is available upon request at 316-268-4090.
- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractors expense.

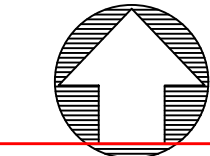
# STORM SEWER IMPROVEMENTS TO SERVE TAKE 5 EXPRESS CAR WASH



**2965 N MAIZE RD  
CITY OF WICHITA, KANSAS  
GARY JANZEN, P.E. CITY ENGINEER  
PROJECT NUMBER  
2022-000748PPD (56030970)**



VICINITY MAP  
1" = 500'



**AS BUILTS**

Contractor:

McCullough  
Excavation

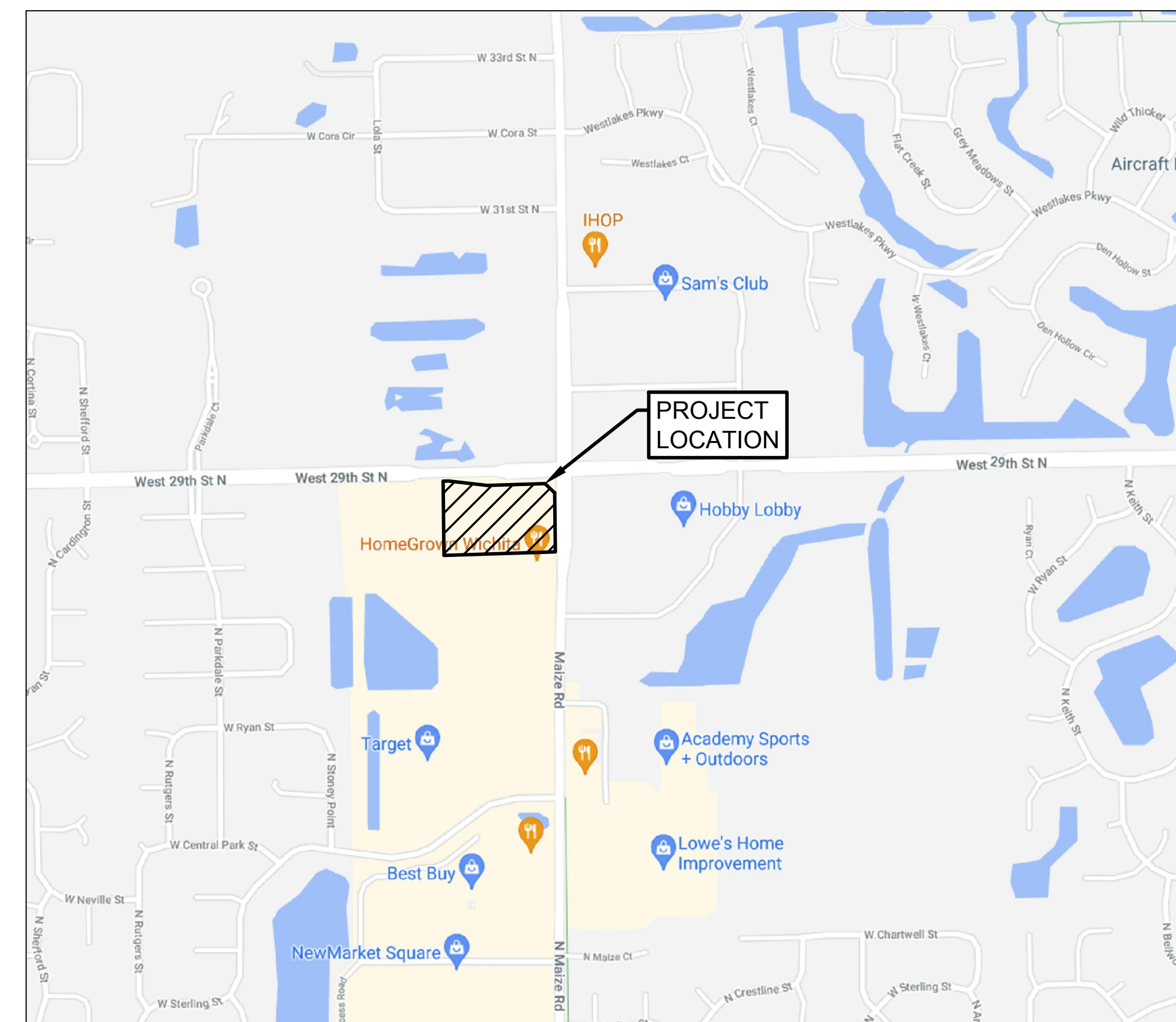
12/12/2022

Project Inspector:

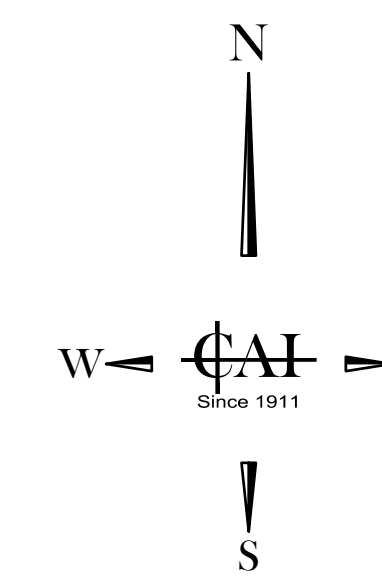
Larry Gann



117 E. Lewis, Wichita, KS 67202 (316)264-0242



LOCATION MAP  
1" = 300'



SCALE : 1" = 300'

**SHEET INDEX**

C-0	PPD COVER SHEET
C-5	GRADING & DRAINAGE PLAN
SW105	CITY OF WICHITA STANDARD SINGLE TYPE II CURB INLET DETAIL
SW201	CITY OF WICHITA DOUBLE DROP INLET DETAIL

ELEVATION BENCHMARKS	
Benchmark #1	Benchmark #2
Type 5/8" Rebar	Type 5/8" Rebar
Northing 1703549.8376	Northing 1703760.9566
Easting 1612036.2936	Easting 1612139.2699
Elevation 1353.60'	Elevation 1352.53'
Benchmark #3	
Type 5/8" Rebar	
Northing 1703643.8389	
Easting 1612257.9772	
Elevation 1352.85'	

HORIZONTAL COORDINATES SHOWN ABOVE ARE BASE ON GRID COORDINATES, STATE PLANE COORDINATE, KANSAS - SOUTH ZONE

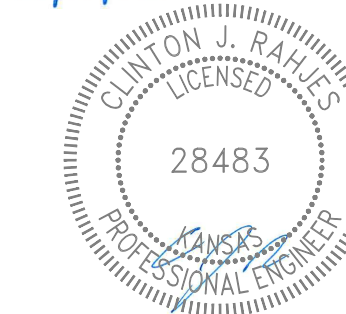
APRIL, 2022



CARTER ASSOCIATES, INC.  
SERVING FLORIDA SINCE 1911  
CONSULTING ENGINEERS  
AND LAND SURVEYORS  
1708 21ST STREET  
VERO BEACH, FL 32960  
TEL: (772) 562-4191  
EMAIL: Trevo@carterassoc.com

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04/12/22



Stormwater Certification:

New Development or Redevelopment (Circle One)

Stormwater Permit # TBD

NOI Permit # UNDER 1 ACRE OF DISTURBANCE

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 (Acres) = 1.20 AC.

Disturbed Area (Acres) = 0.99 AC.

Water Quality Treatment: OFFSITE BMP PROGRAM

Downstream Channel Protection: N/A

Detention: N/A

The BMP used for this development is STORMWATER PERMIT OFFSITE BMP PROGRAM

APPROVED AS NOTED  
BY WICHITA PUBLIC WORKS ENGINEERING  
AND STORMWATER DIVISION

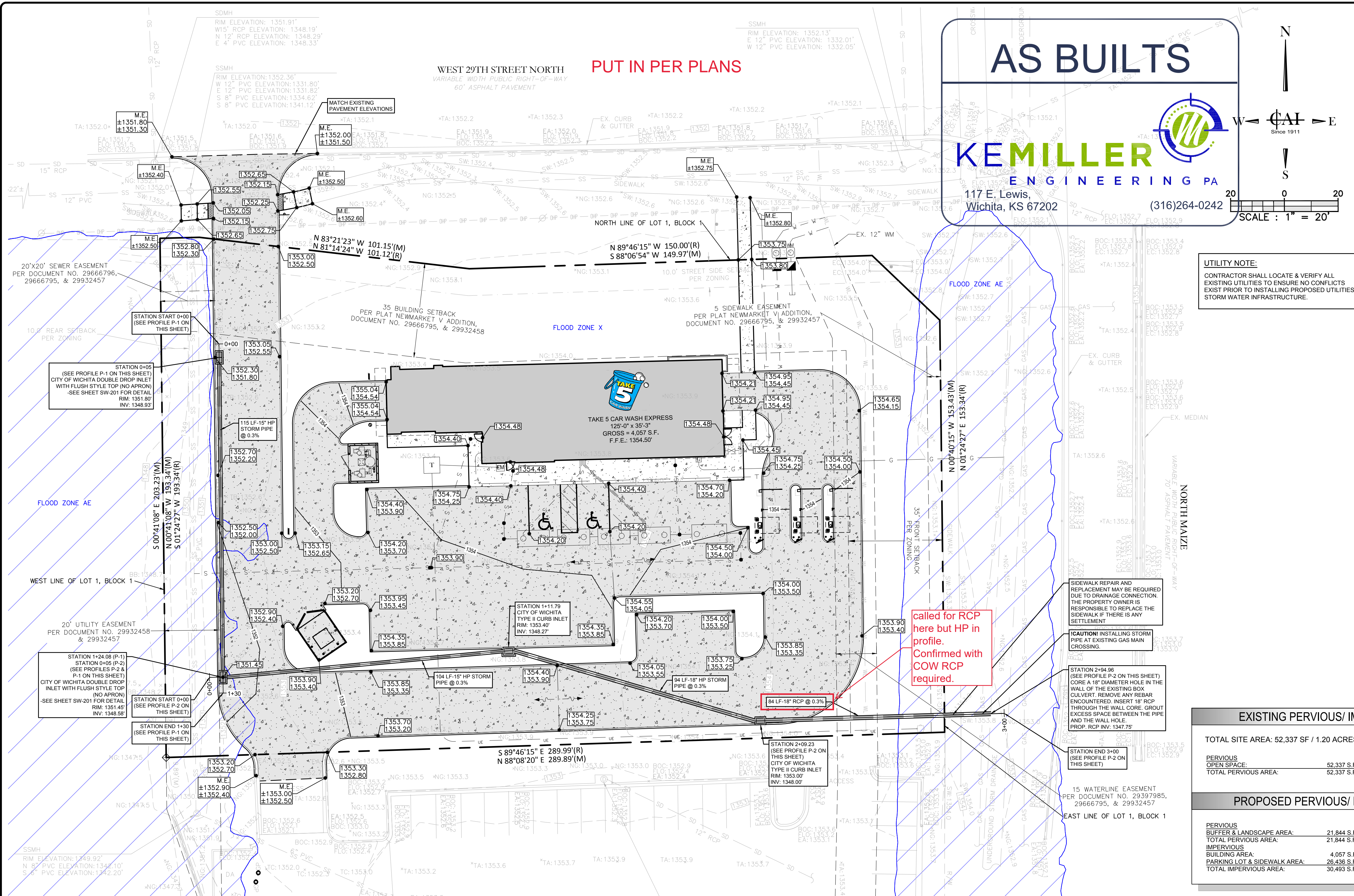
Engineering SHAWN MELLIES 4-12-2022

Stormwater JOE HICKLE 4-12-2022

**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 the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the current 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.



# AS BUILTS

**KEMILLER ENGINEERING PA**  
 117 E. Lewis, Wichita, KS 67202  
 (316)264-0242

SCALE: 1" = 20'

- ### GRADING NOTES
- GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C-1 - GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
  - UNDISTURBED AREAS:** PRIOR TO GRADING, BRUSH REMOVAL, OR SITE CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE DEVELOPER AND/OR ENGINEER AT THE SITE TO ASCERTAIN THE AREAS OF THE PROJECT SITE THAT ARE TO BE PROTECTED AND PRESERVED. REFER TO THE GENERAL TREE PROTECTION NOTES FOR ALL CONSTRUCTION IN THE VICINITY OF EXISTING TREES.
  - TESTING:** ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL STUDY PREPARED BY TERRACON CONSULTANTS, INC. DATED 07-12-21, WHICH IS MADE A PART OF THESE CONSTRUCTION DOCUMENTS.
  - STRIPPING AND DEBRIS REMOVAL:** THE BUILDING PAD SITES, AREAS TO BE PAVED, AND ALL AREAS THAT ARE TO RECEIVE FILL MATERIAL SHALL BE STRIPPED OF VEGETATION, TREES, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIAL. THE DEPTH OF STRIPPING IS ESTIMATED TO BE ON THE ORDER OF 6 INCHES IN ORDER TO REMOVE THE SURFACE SOIL CONTAINING ORGANIC MATERIAL. THE ACTUAL STRIPPING DEPTH SHALL BE BASED ON FIELD OBSERVATIONS. STRIPPED TOPSOIL SHALL BE STOCKPILED IN A LOCATION ON-SITE APPROVED BY THE DEVELOPER. ALL TREES, INCLUDING STUMPS AND ROOT SYSTEMS, VEGETATION, DEBRIS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. ALL COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
  - BURNING:** BURNING SHALL NOT BE PERMITTED ON THE PROJECT SITE UNLESS APPROVED IN WRITING BY THE GOVERNING AUTHORITIES AND THE DEVELOPER.
  - PROOF ROLLING:** UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS, THE STRIPPED AREAS SHOULD BE OBSERVED TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE WEAK OR OTHERWISE OBJECTIONABLE MATERIALS THAT WOULD ADVERSELY AFFECT THE PLACEMENT. THE SUBGRADE SHOULD BE FIRM AND ABLE TO SUPPORT CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YIELDING SUBGRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS. THE PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
  - UNSTABLE MATERIAL:** WHEN CLAY OR OTHER UNSTABLE MATERIAL IS PRESENT IN AREAS OF PROPOSED BUILDING PADS OR PAVED AREAS, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE STABILITY OF ANY EXISTING CLAY OR WEATHERED MATERIAL THAT IS PRESENT IN THE SUBBASE, AND SHALL DETERMINE WHETHER ADDITIONAL EXCAVATION OF THESE MATERIALS WILL BE REQUIRED. IF THIS MATERIAL IS DEEMED SUITABLE FOR SUBBASE MATERIAL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES, ITS MOISTURE CONTENT ADJUSTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND THEN RE-COMPACTED TO AT LEAST 95% OF THE OPTIMUM DENSITY DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D - 698 PRIOR TO PLACEMENT OF FILL MATERIALS.
  - CONTROLLED FILL:** ALL SOILS USED FOR CONTROLLED FILL SHOULD BE FREE OF ROOTS, VEGETATION, AND OTHER DELETERIOUS OR UNDESIRABLE MATTER. ROCKS LESS THAN 4 INCHES IN LARGEST DIMENSION WITHIN 15 INCHES OF PROPOSED SUBGRADE ELEVATION, LESS THAN 6 INCHES IN SIZE FROM 15 INCHES TO 36 INCHES OF PROPOSED SUBGRADE ELEVATION, LESS THAN 12 INCHES IN SIZE FROM 36 INCHES TO 72 INCHES OF PROPOSED SUB GRADE ELEVATION, AND LESS THAN 18 INCHES IN LARGEST DIMENSION FOR FILLS IN EXCESS OF 72 INCHES FROM SUBGRADE ELEVATION, WILL BE ALLOWED AS ACCEPTABLE FILL MATERIAL. ROCK FILLS SHOULD BE SUPPLEMENTED WITH A SUFFICIENT AMOUNT OF FINE MATERIAL TO PREVENT VOIDS. SOILS IMPORTED FROM OFF-SITE FOR USE AS FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHOULD BE PLACED IN LEVEL, UNIFORM LIFTS, WITH EACH LIFT COMPACTED TO THE MINIMUM DRY DENSITY WITHIN THE COMPACTION SOIL MOISTURE RANGES RECOMMENDED. THE LOOSE LIFT THICKNESS SHOULD NOT EXCEED 8 INCHES. EACH LAYER SHOULD BE PROPERLY PLACED, MIXED, SPREAD, AND COMPACTED TO AT LEAST 95% AND 100% OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D 698.
  - PROPOSED GRADES:** THE PROPOSED CONTOURS INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT, UNLESS NOTED OTHERWISE.
  - BUILDING ENTRANCE GRADES:** REFER TO THE BUILDING PLANS FOR DETAILED SPOT GRADING AT THE BUILDING ENTRANCE AREAS. THE CONTRACTOR SHALL COMPLY WITH ALL ADA AND LOCAL STATE GOVERNING AUTHORITY STANDARDS FOR REQUIREMENTS REGARDING MAXIMUM SLOPES FOR HANDICAP PARKING AREAS, SIDEWALKS, ACCESS RAMPS AND ACCESSIBLE ROUTES.
  - LANDSCAPE AREAS:** ALL LANDSCAPE AREAS AND OTHER DISTURBED AREAS WITHIN THE LIMITS OF THE PROPERTY NOT DESIGNATED TO BE PAVED SHALL RECEIVE 6 INCHES OF TOPSOIL. REFER TO THE LANDSCAPE PLANS FOR LIMITS OF TOPSOIL PLACEMENT.
  - UNCLASSIFIED EXCAVATION:** ALL UNCLASSIFIED EXCAVATION, INCLUDING, BUT NOT LIMITED TO, CUT & FILL, HAUL OFF ASSOCIATED WITH CONSTRUCTION OF PAVEMENT TO FINAL GRADE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

**UTILITY NOTE:**  
 CONTRACTOR SHALL LOCATE & VERIFY ALL EXISTING UTILITIES TO ENSURE NO CONFLICTS EXIST PRIOR TO INSTALLING PROPOSED UTILITIES/ STORM WATER INFRASTRUCTURE.

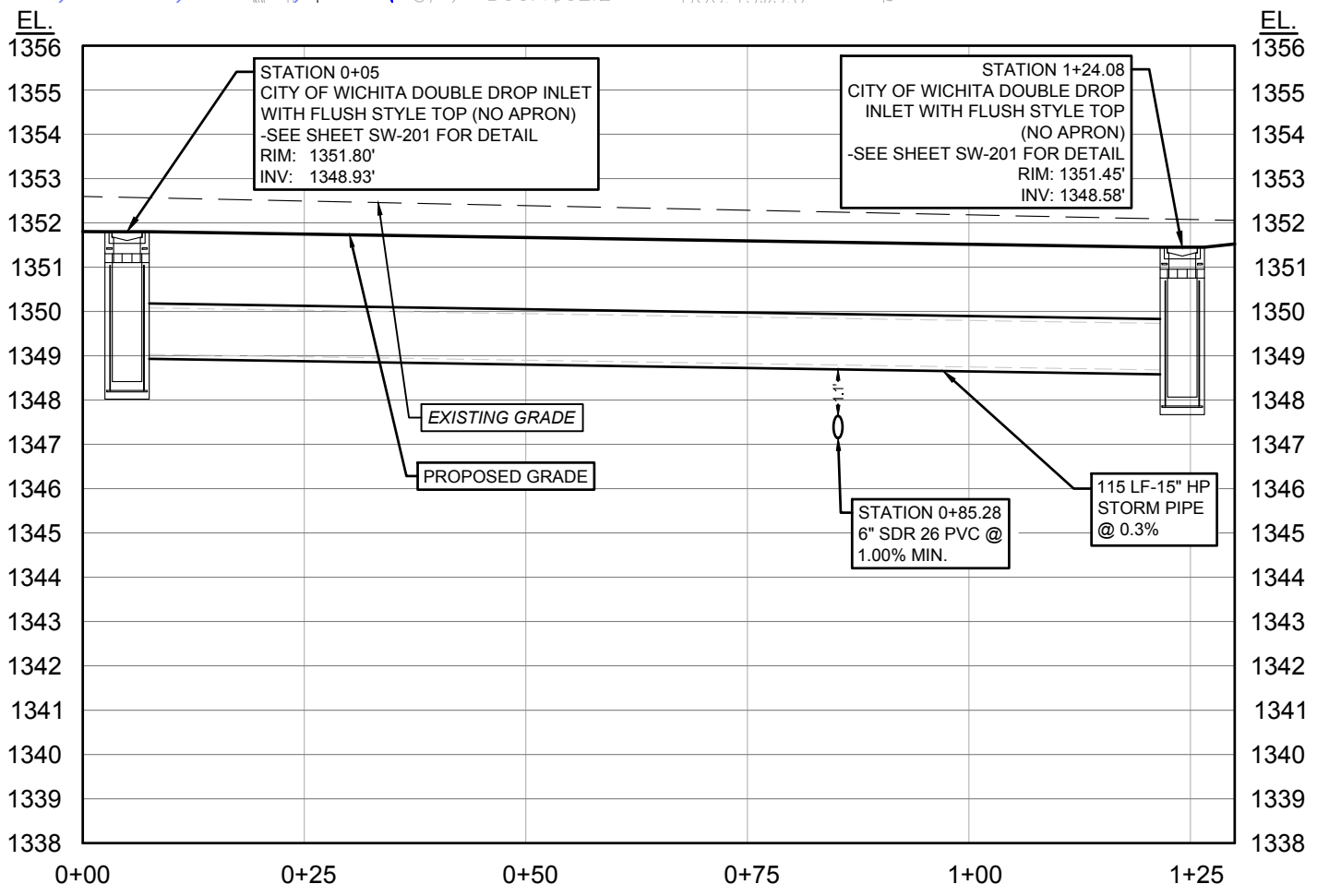
EXISTING PERVIOUS/ IMPERVIOUS	
TOTAL SITE AREA:	52,337 SF / 1.20 ACRES
PERVIOUS OPEN SPACE:	52,337 S.F. / 1.20 AC / 100%
TOTAL PERVIOUS AREA:	52,337 S.F. / 1.20 AC / 100%

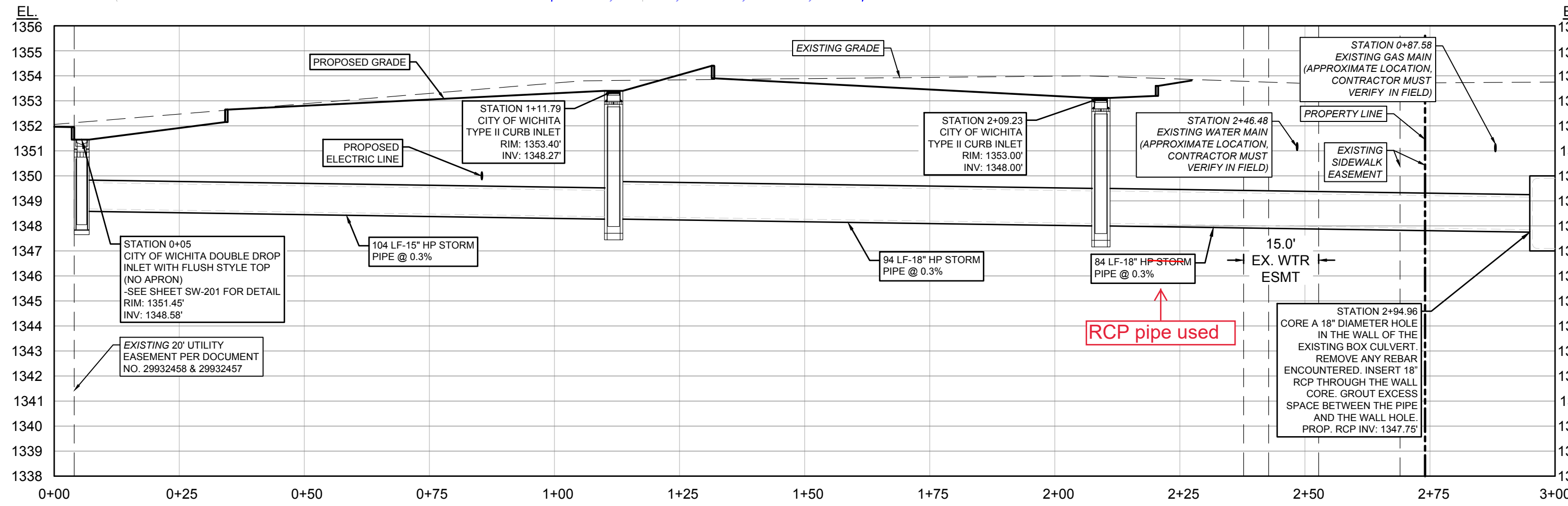
PROPOSED PERVIOUS/ IMPERVIOUS	
PERVIOUS BUFFER & LANDSCAPE AREA:	21,844 S.F. / 0.50 AC / 41%
TOTAL PERVIOUS AREA:	21,844 S.F. / 0.50 AC / 41%
IMPERVIOUS BUILDING AREA:	4,057 S.F. / 0.09 AC / 8%
PARKING LOT & SIDEWALK AREA:	26,436 S.F. / 0.61 AC / 51%
TOTAL IMPERVIOUS AREA:	30,493 S.F. / 0.70 AC / 59%

### GRADING LEGEND

	PROPOSED CONTOUR
	EXISTING CONTOUR
	FLOW DIRECTION
	PROPOSED STORM PIPE
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	SAWCUT & MATCH EXISTING ASPHALT
	CITY OF WICHITA TYPE-II CURB INLET SEE SHEET SW-101 FOR DETAIL
	CITY OF WICHITA DOUBLE DROP INLET WITH FLUSH STYLE TOP (NO APRON) SEE SHEET SW-201 FOR DETAIL



**STORM SEWER PROFILE (P-1)**  
 Horiz. Scale: 1" = 20'  
 Vert. Scale: 1" = 4'



**STORM SEWER PROFILE (P-2)**  
 Horiz. Scale: 1" = 20'  
 Vert. Scale: 1" = 4'

- NOTES:**
- CONTRACTOR SHALL MATCH EXISTING ELEVATION AT ALL SAWCUT LIMITS. LANDSCAPE GRADE SHALL NOT EXCEED A 5% RUNNING SLOPE. FOR SIDEWALKS CONTAINED WITHIN THE PUBLIC ROW AND WHEN ADJACENT STREET GRADES EXCEED 5% THEN THE SIDEWALK GRADE RUNNING SLOPE MAY MATCH STREET GRADES.
  - ALL ADA ACCESS ROUTES SHALL HAVE A MAXIMUM 5% LONGITUDINAL SLOPE AND A 2% MAXIMUM CROSS SLOPE.
  - ALL ADA PARKING SPACES AND ROUTING FROM PARKING LOT SHALL MAINTAIN 2% MAXIMUM SLOPE IN ALL DIRECTIONS.

**CAUTION!**  
 CONTRACTOR TO CONTACT THE KANSAS 811 SYSTEM (1-800-344-7233) AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION. CARTER ASSOCIATES, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA. IF FIELD CONDITIONS DIFFER SIGNIFICANTLY FROM THE LOCATION SHOWN ON THE PLANS THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

**CARTER ASSOCIATES, INC.**  
 SERVING FLORIDA SINCE 1911  
 CONSULTING ENGINEERS  
 AND LAND SURVEYORS

1708 21ST STREET  
 VERO BEACH, FL 32960  
 TEL: 772-303-4191  
 EMAIL: [Texas@CarterAssoc.com](mailto:Texas@CarterAssoc.com)

REVISION	DATE	DESCRIPTION
04/07/22	02/24/22	REVISED PER RFP COMMENTS
03/15/22	03/15/22	REVISED PER CITY COMMENTS
12/08/21	02/11/22	REVISED ACCESS P.O.C. AND ADDRESSED COMMENTS
		CIVIL CONSTRUCTION SET
		REVISION

**TAKE 5 EXPRESS CAR WASH  
 OF WICHITA, KS**

2966 N MAIZE RD  
 WICHITA, KS 67205

DATE: 04/07/22

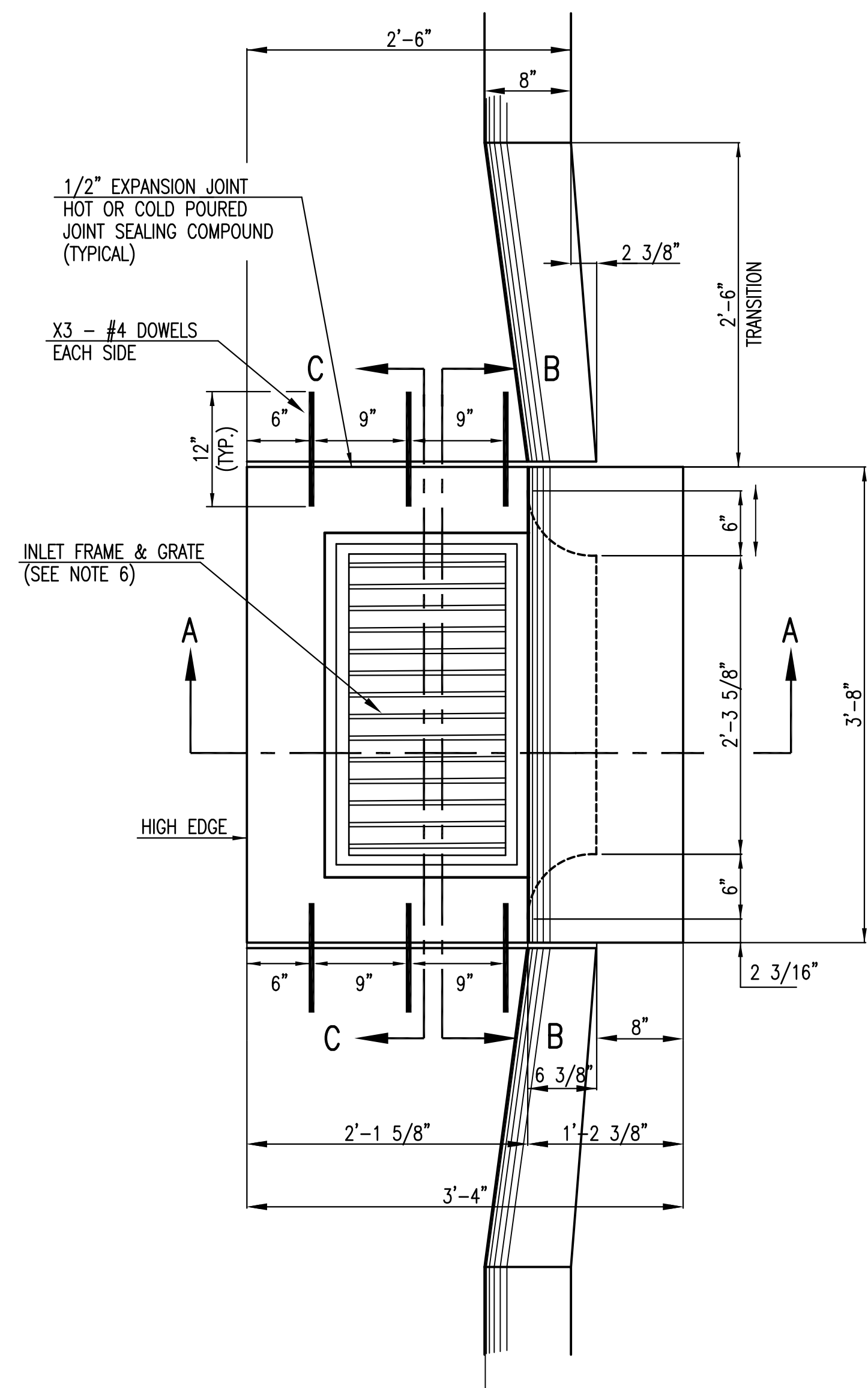
ISSUED DATE: 7/30/21  
 PROJ. # : 21-234E  
 DRAWN BY: KB  
 REF. # : SEE SURVEY  
 F.B. & PG. : SEE SURVEY

**GRADING &  
 DRAINAGE PLAN**

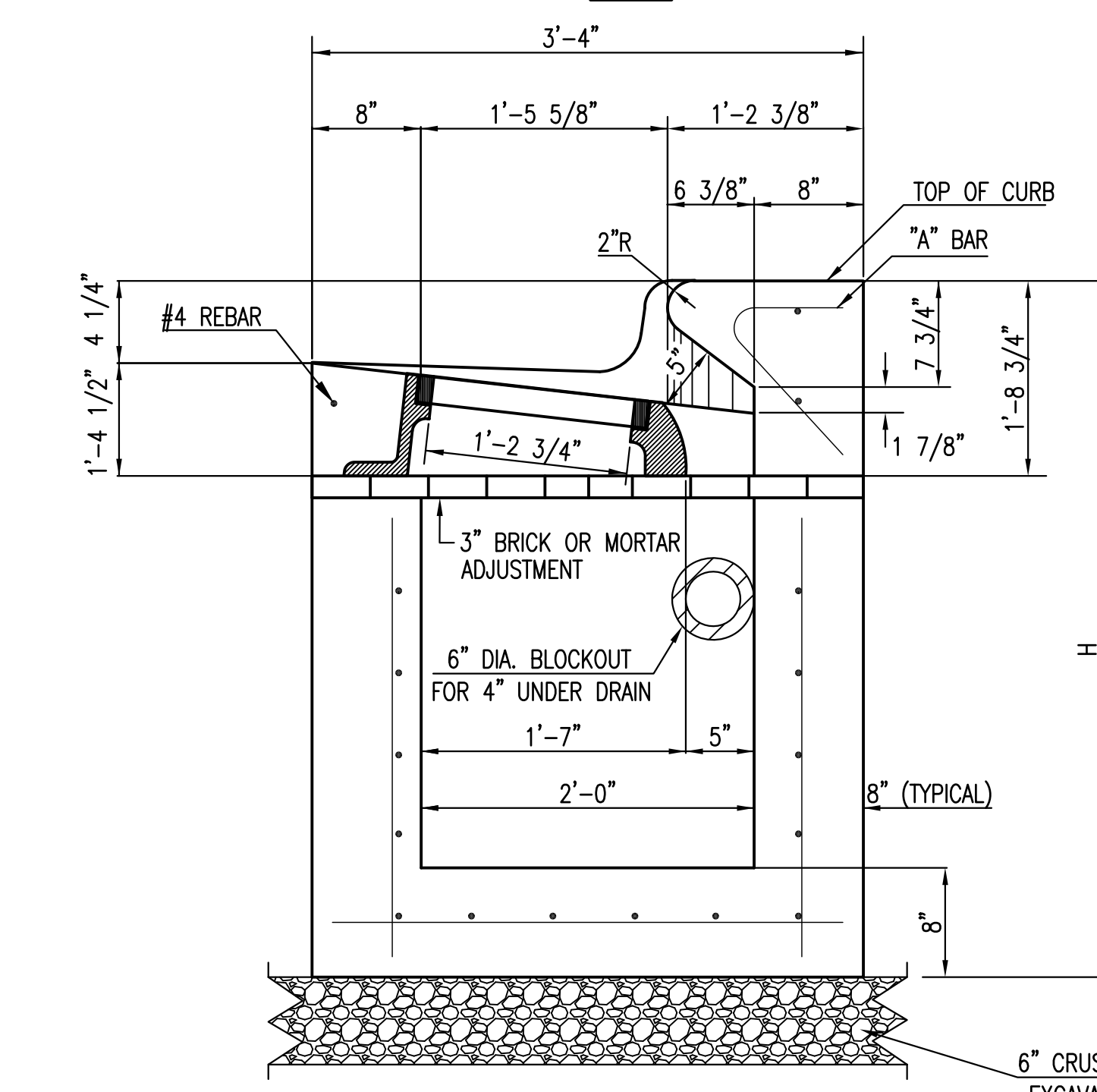
SHEET  
**C-5**

DWG. NO.

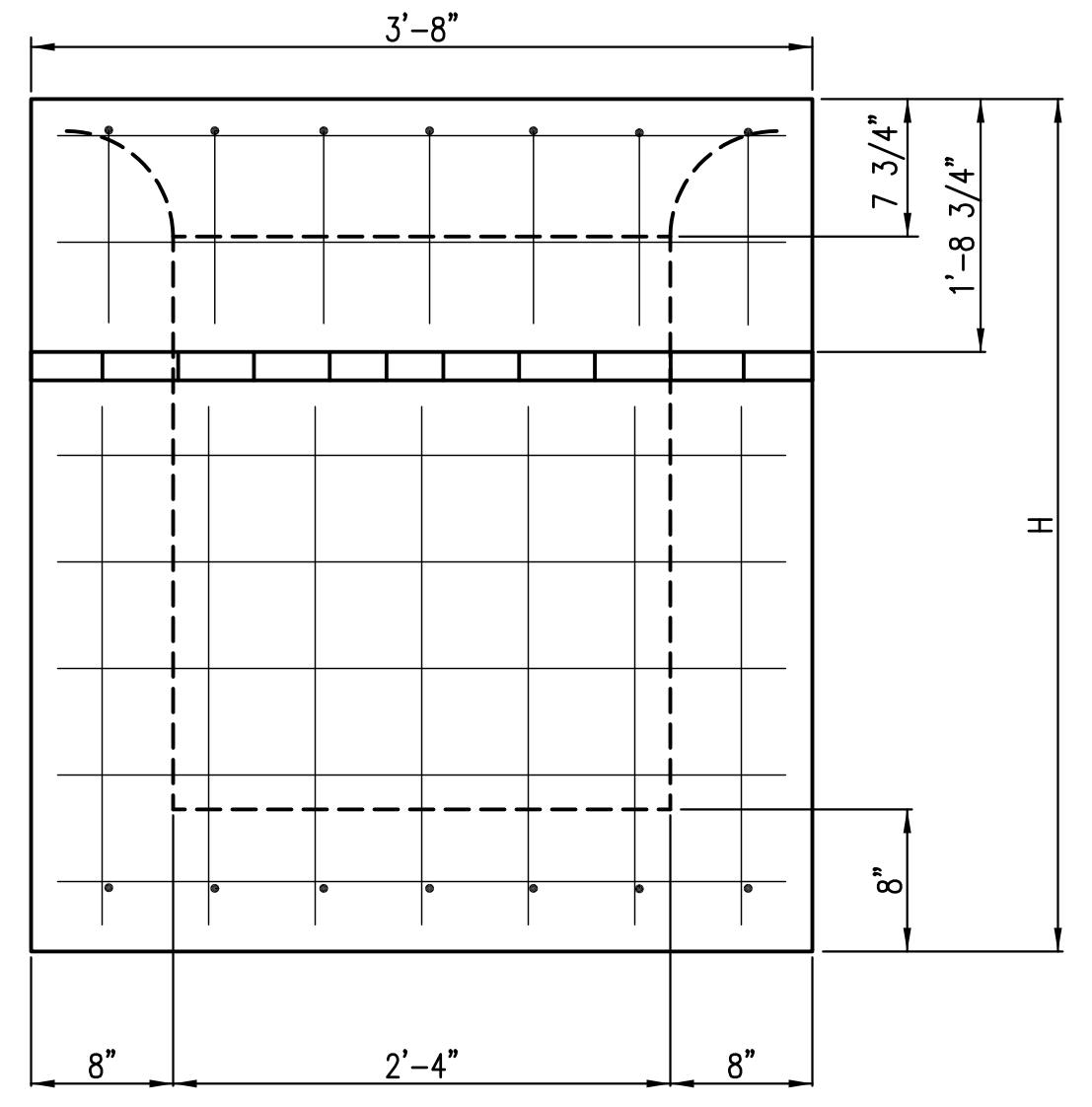
Apr. 12, 2022 2:51 PM P:\21234E\Ch Wichita\SS\21234E-C5-Grading & Drainage\Plan\Grading & Drainage PLAN - General.dwg



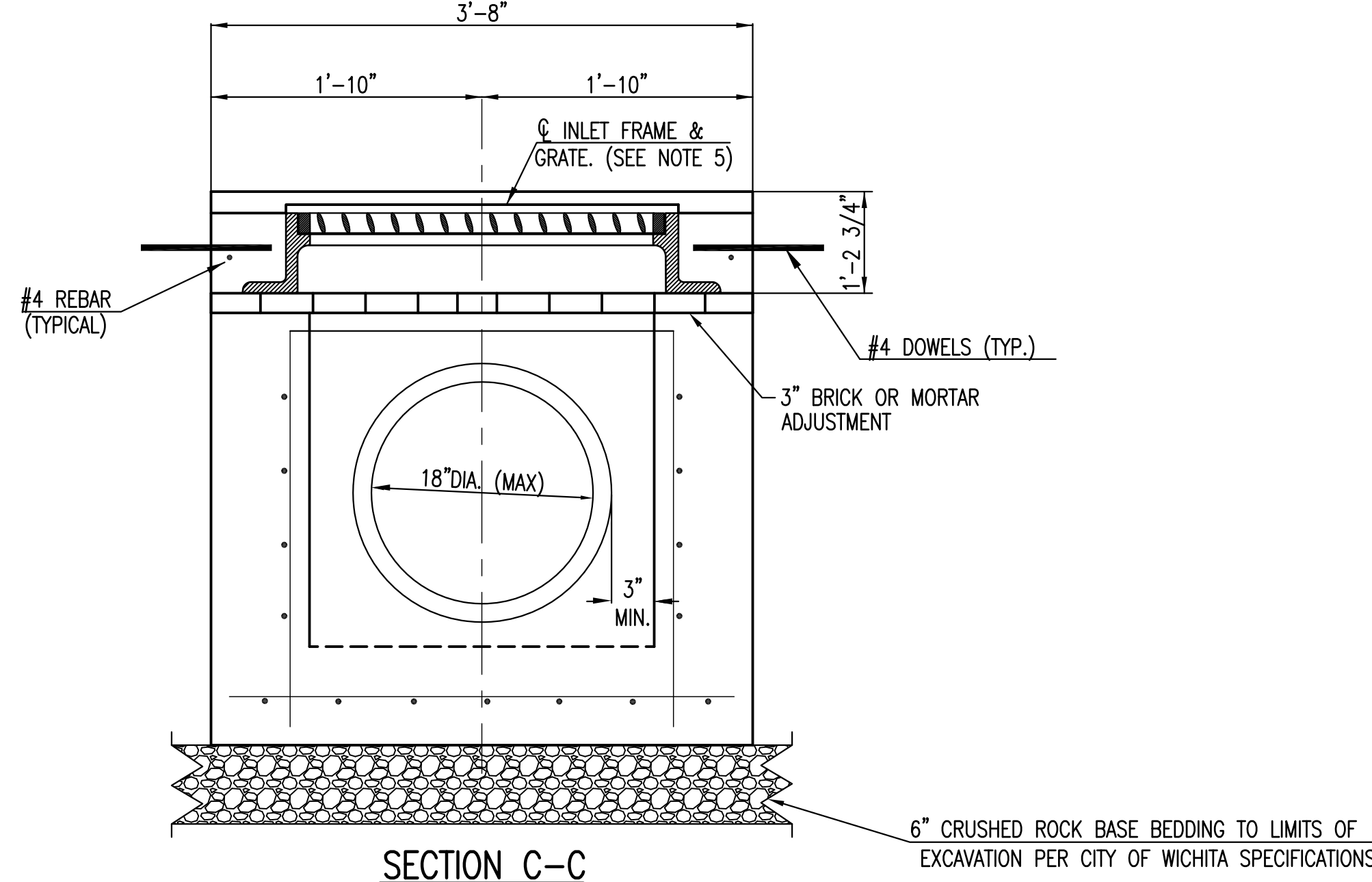
PLAN



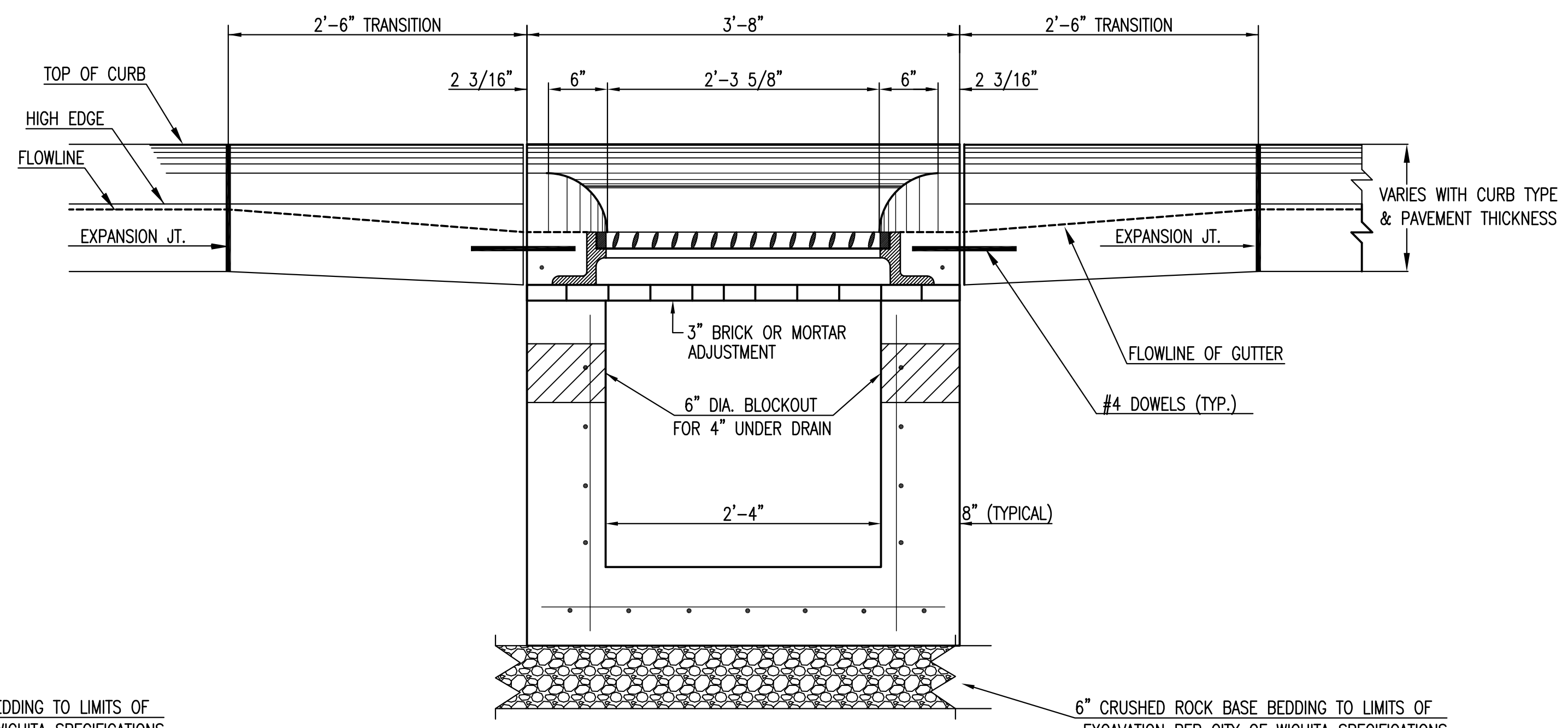
SECTION A-A



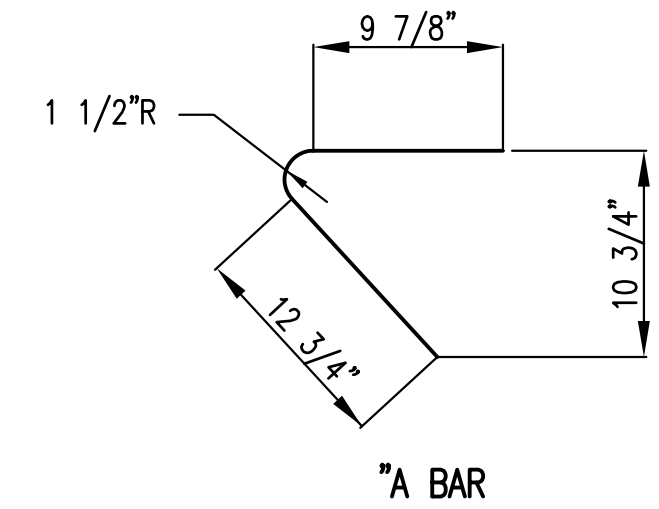
REAR WALL



SECTION C-C



SECTION B-B



"A" BAR BENDING DIAGRAM

- GENERAL NOTES**
- USE THE CONCRETE MIX SPECIFIED FOR THE CITY OF WICHITA CONCRETE PAVEMENT THROUGHOUT. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE BENT AROUND PIPE.
  - INLET INVERT SHALL BE SHAPED WITH 8 SACK MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
  - ALL BARS ARE #4 WITH 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2 INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
  - NO DEDUCTIONS WILL BE MADE IN PAY LENGTH OF CURB, GUTTER, OR CURB AND GUTTER THROUGH THE INLET AREA.
  - USE DEETER FOUNDRY, INC. CASTING NO. 2442/43 OR EJIW 7600Z LEFT SIDE, 7600 RIGHT SIDE IN INLET FRAME AND GRATE WITH STYLE H GRATE. INLET FRAME TO BE PROOF LOAD TESTED TO 40,000 LBS. ON UNSUPPORTED SIDE.
  - REINFORCING BARS SHALL BE CUT OR BENT AROUND PIPES. NO DEDUCTION IN CONCRETE QUANTITIES SHALL BE MADE FOR PIPE OPENINGS.
  - THE VANES OF THE GRATE SHALL BE ORIENTED WITH RESPECT TO THE FLOW ARROWS SHOWN ON THE PLANS.
  - CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

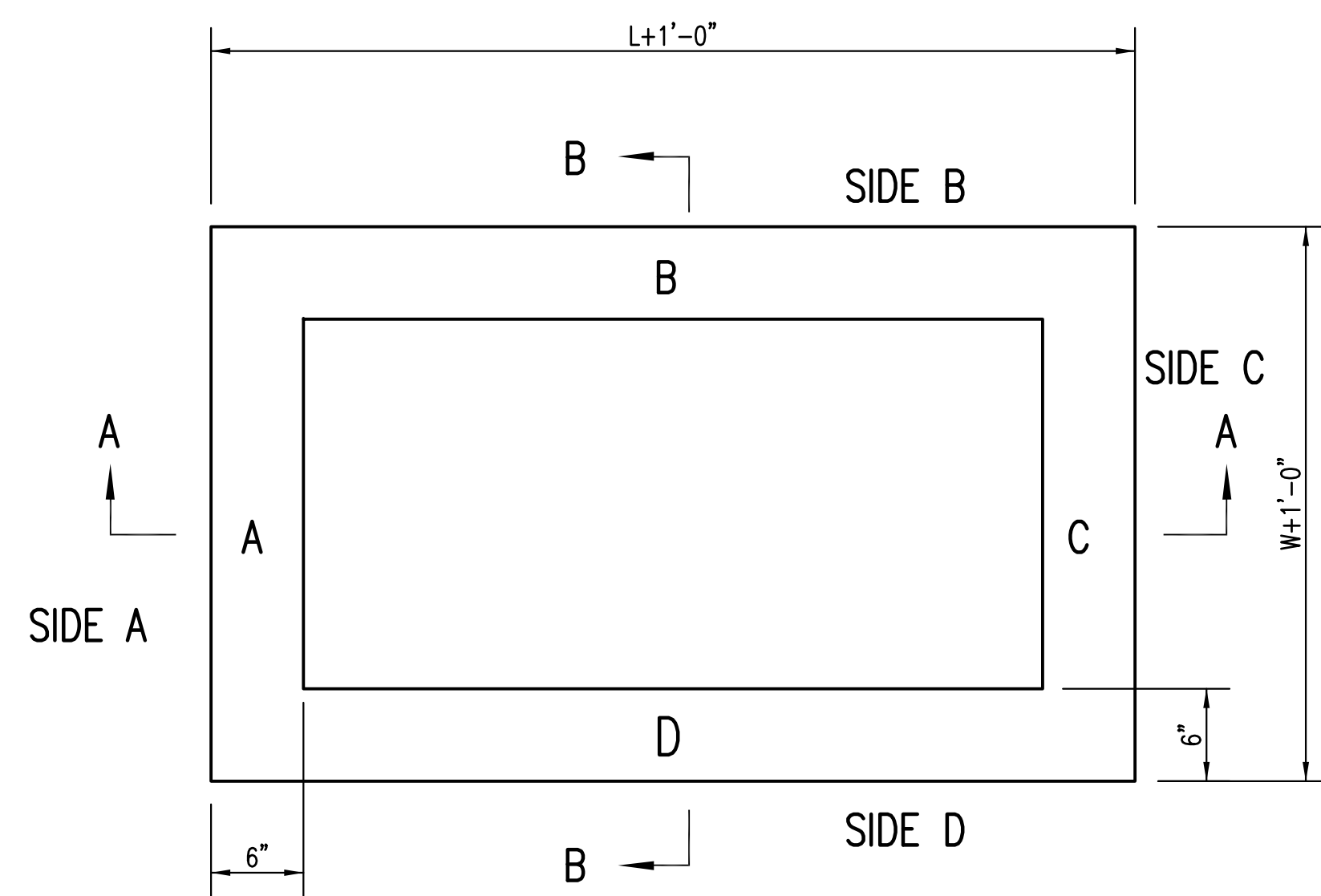


REvised: MARCH 2015

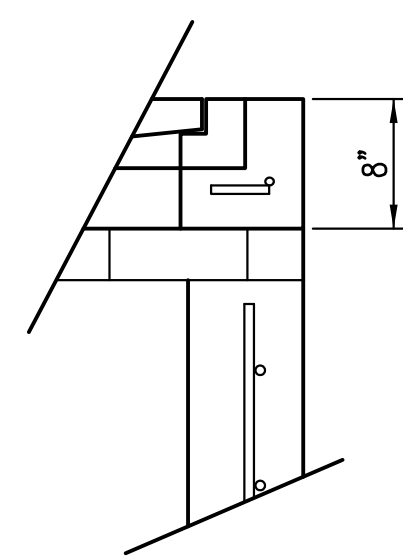
**STANDARD SINGLE TYPE II CURB INLET**

CITY ENGINEER  
**GARY JANZEN, P.E.**

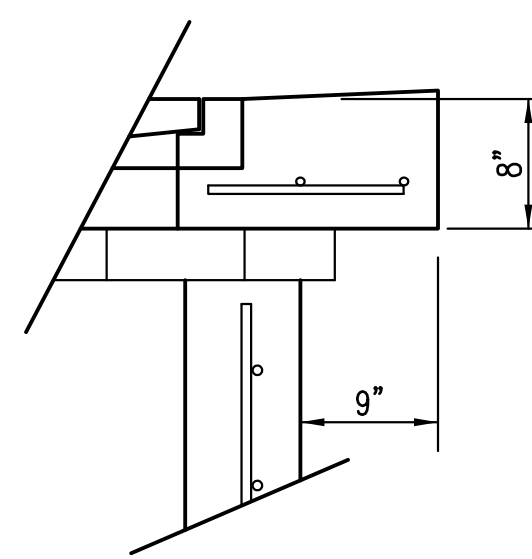
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET



TOP VIEW

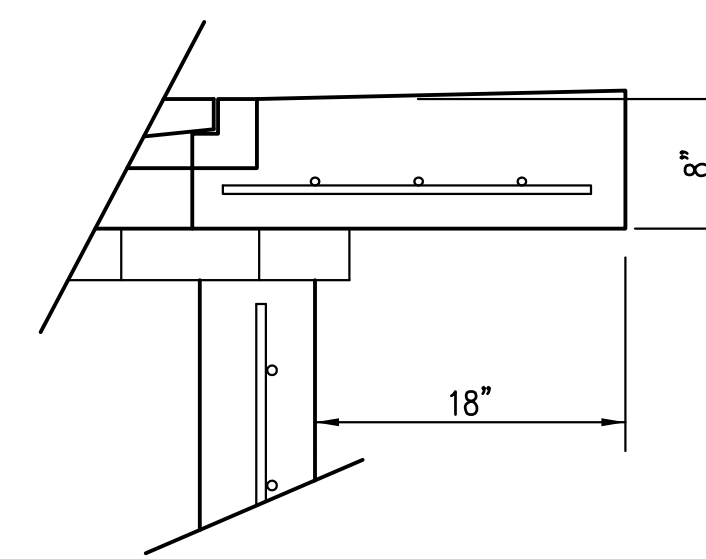


FLUSH STYLE TOP  
NO APRON



9" APRON

\* APRON TO EXTEND ON ALL 4 SIDES OF INLET.  
DESIGNER TO DESIGNATE APRON SIZE.



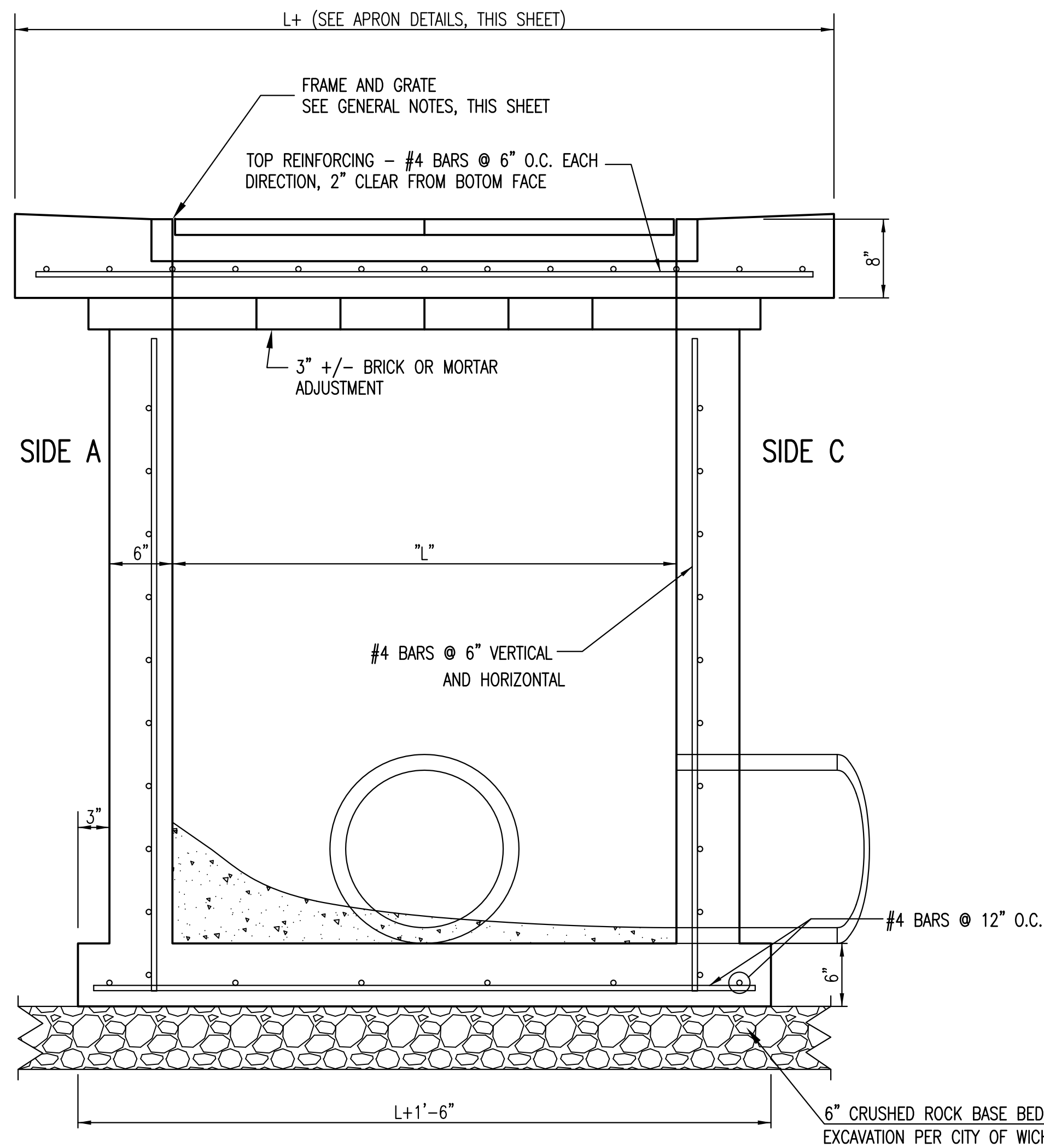
18" APRON

W=2' and L=2' for SINGLE DROP INLET  
W=2' and L=4' for DOUBLE DROP INLET

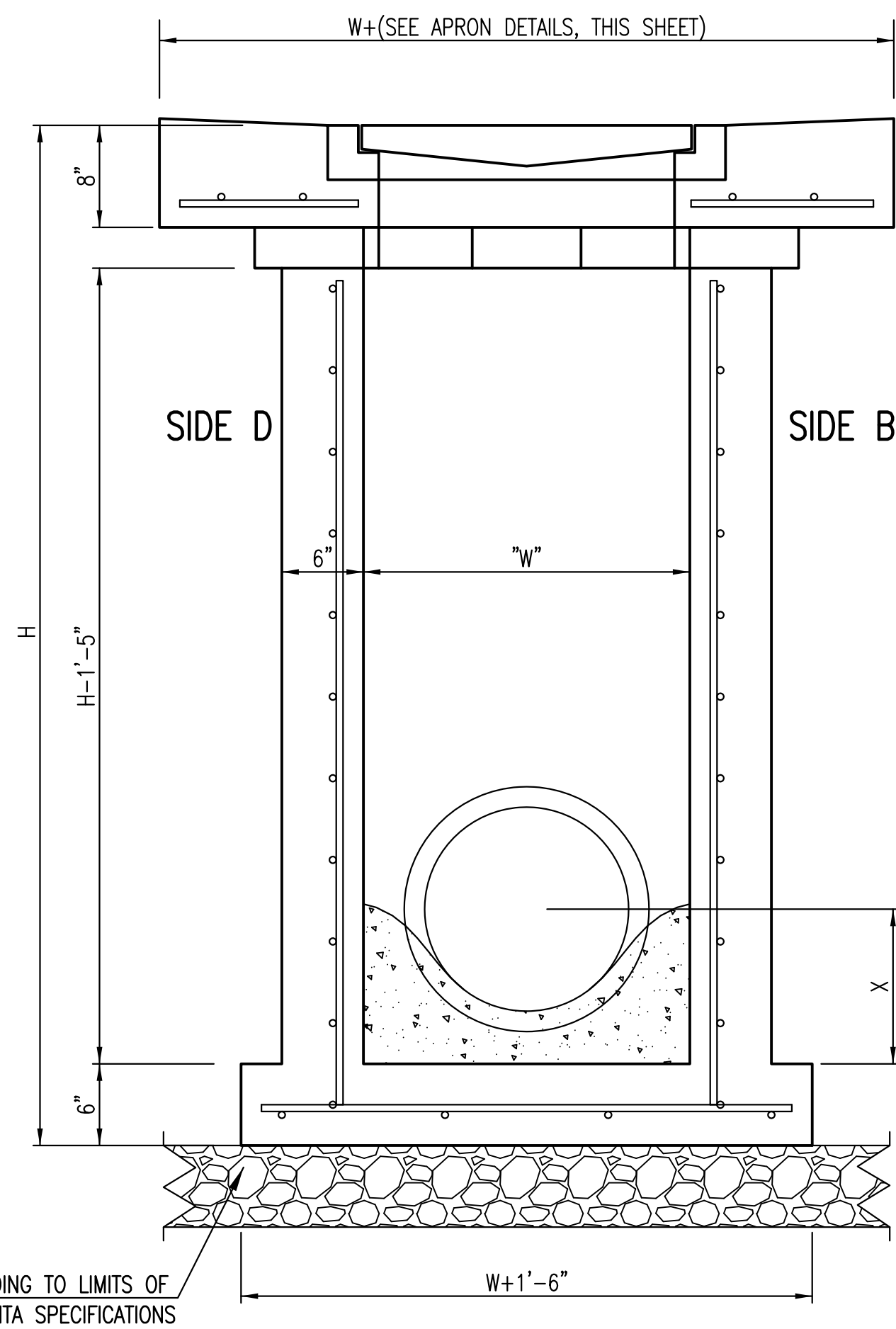
The structure(s) on this detail sheet are designed for HS-20 loading at these specific dimensions only. If larger dimensions are required, the ENGINEER shall provide a project specific structure design for approval by the City Engineer's office.

GENERAL NOTES

1. GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
4. INLET FRAME AND GRATE TO BE DEETER #2433, EJIW #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJIW #5391 Z3 OR APPROVED EQUAL FOR 2'x4' DOUBLE DROP INLET.
5. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

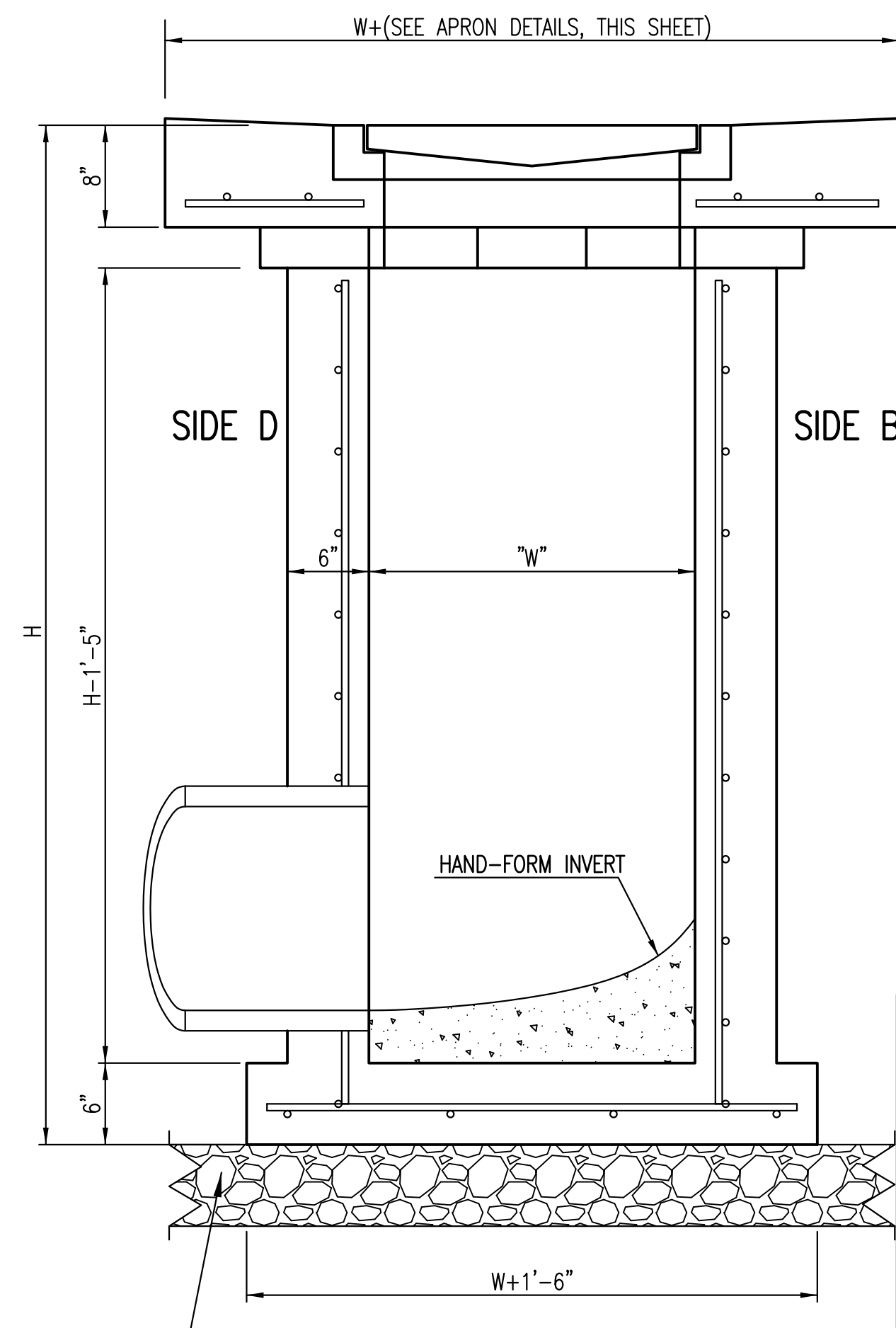


SECTION "A-A"



SECTION "B-B"  
END OUTLET

6" CRUSHED ROCK BASE BEDDING TO LIMITS OF EXCAVATION PER CITY OF WICHITA SPECIFICATIONS



SECTION "B-B"  
SIDE OUTLET



REVISED: MARCH 2015

<b>SINGLE/DOUBLE DROP INLET</b>		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET