

GENERAL NOTES:

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following most recent City of Wichita Standards, Specifications and Special Provisions.

2. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call (316)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 1-316-268-4555
- City of Wichita Sewer 1-316-268-4073
- 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

3. 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 locations, 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.

4. 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 would require a Kansas State Board of Agriculture permit. Any material dumped in water 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 would require additional archeological investigations unless buried in a previously approved borrow location.

5. 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 Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

6. 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.

7. 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.

8. The Water Distribution Division shall field located 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 field grades.

9. The Contractor shall notify the consultant engineer and Tom Mason 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.

10. If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Brian Coon 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.

11. All elevations shown are NAVD 88.

12. All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

13. All stubs and plugged pipes shall be located with green plastic tape in the same manner as risers.

14. Connecting to Existing Manholes: Prior to laying sewer lines using existing stubs in existing manholes, the Contractor shall expose and verify the elevation, grade and alignment of existing stubs and notify the Engineer of any deviation from the plans. Where connection to an existing manhole that does not have an existing stub or the stub is unusable due to elevation grade or alignment, the Contractor shall bore cut into existing manhole wall to make connection using approved water stop gasket, and reshape the existing manhole invert to provide smooth flow. The cost to connecting to existing manholes is incidental to the project.

15. Contractor shall limit the extent of trench open overnight and weekends to less than 50 feet.

16. Contractor shall provide positive drainage away from all manhole covers.

17. The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.

18. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractors proposed method for maintaining sewage flow shall be submitted and approved by the Sewer Maintenance Division (316-268-4073) prior to starting and by-passing of sewage flows.

19. Any over excavation from manhole and pipe removal shall be backfilled with AB-3 compacted to 90-95% ASTM D698.

20. City Maintenance of sanitary sewer mains ends at last structure within the easement or right-of-way or line. This sanitary sewer project will be privately owned and maintained.

21. Any sidewalk, drive approach, curb, 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.

AS BUILTS

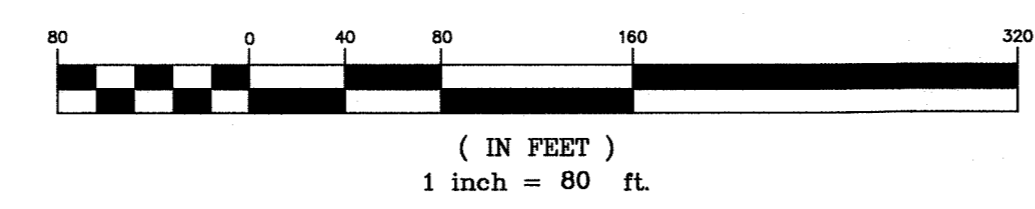
Contractor: McCullough
Excavation
Inspector: Matt Perez
Date: 03/15/2017

KEMILLER ENGINEERING PA

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

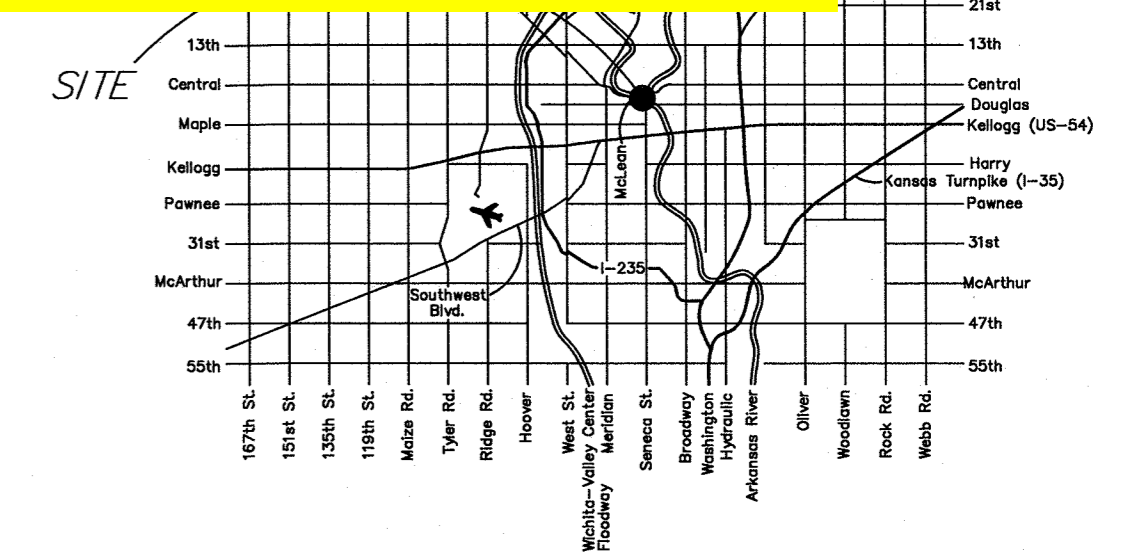


DATE: 05.10.2016
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY



**SANITARY SEWER
to serve
150 N. McLean Blvd.
River Vista Apartments
CITY OF WICHITA, KANSAS
Gary Janzen, P.E., City Engineer
~~2238 PPS~~ 2338 PPS (607861)**

**T. Mason - City of Wichita, Inspector
Release Date: 12/15/2017
: apr 12/18/2017**



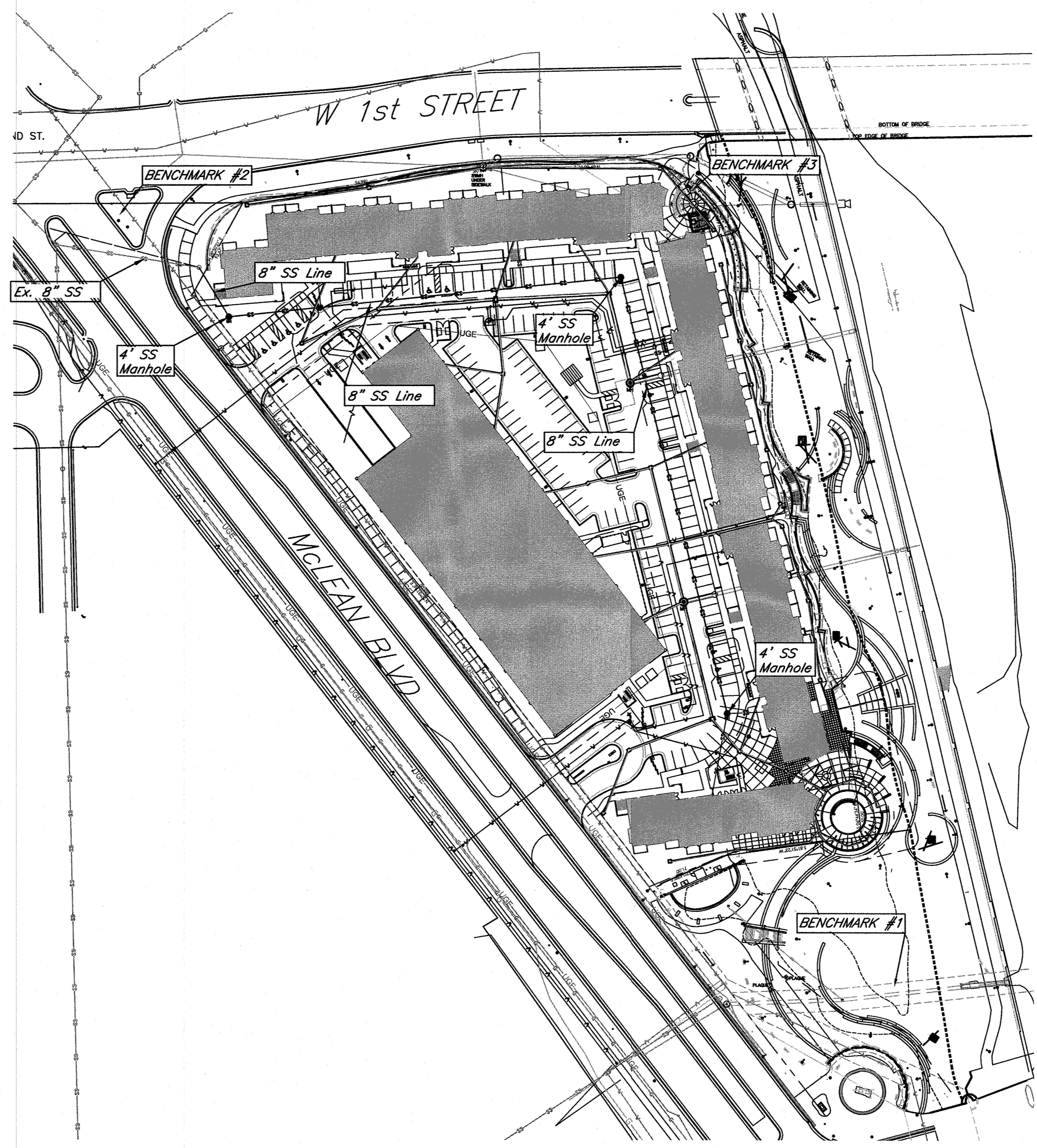
(For Visual Use Only)
LOCATION MAP

Index of Sheets:

- 1.0 Cover Sheet
- 2.0-2.1 Plan and Profile Sheet
- 3.0 Precast Manhole Detail
- 3.1 SS Riser Detail
- 4.0-4.4 Erosion Control BMP Details (attached or available on City's website)
- 5.0 Plat

Benchmark:

- BM #1** USC&GS brass disk in concrete post stamp Wichita 1934, 1.2' above ground, 131' NW of north curb of Douglas, 5' west of top of west bank Arkansas River. Elev. = 1303.02 NAVD 88
- BM #2** Chisled square on north corner of traffic signal vault in island on southeast corner of 2nd Street and McLean Boulevard, north vault of two vaults. Elev. = 1302.16 NAVD 88
- BM #3** Chisled 'X' in center of 4' x 5' concrete Stormwater Sewer manhole vault, 44' south and 24' west of southwest corner of 2nd Street Bridge over Arkansas River. Elev. = 1301.64 NAVD 88



APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION

Engineering *Rebecca Hill* 4/6/2016
Utilities *[Signature]* 6-10-16

NOTE TO CONTRACTORS

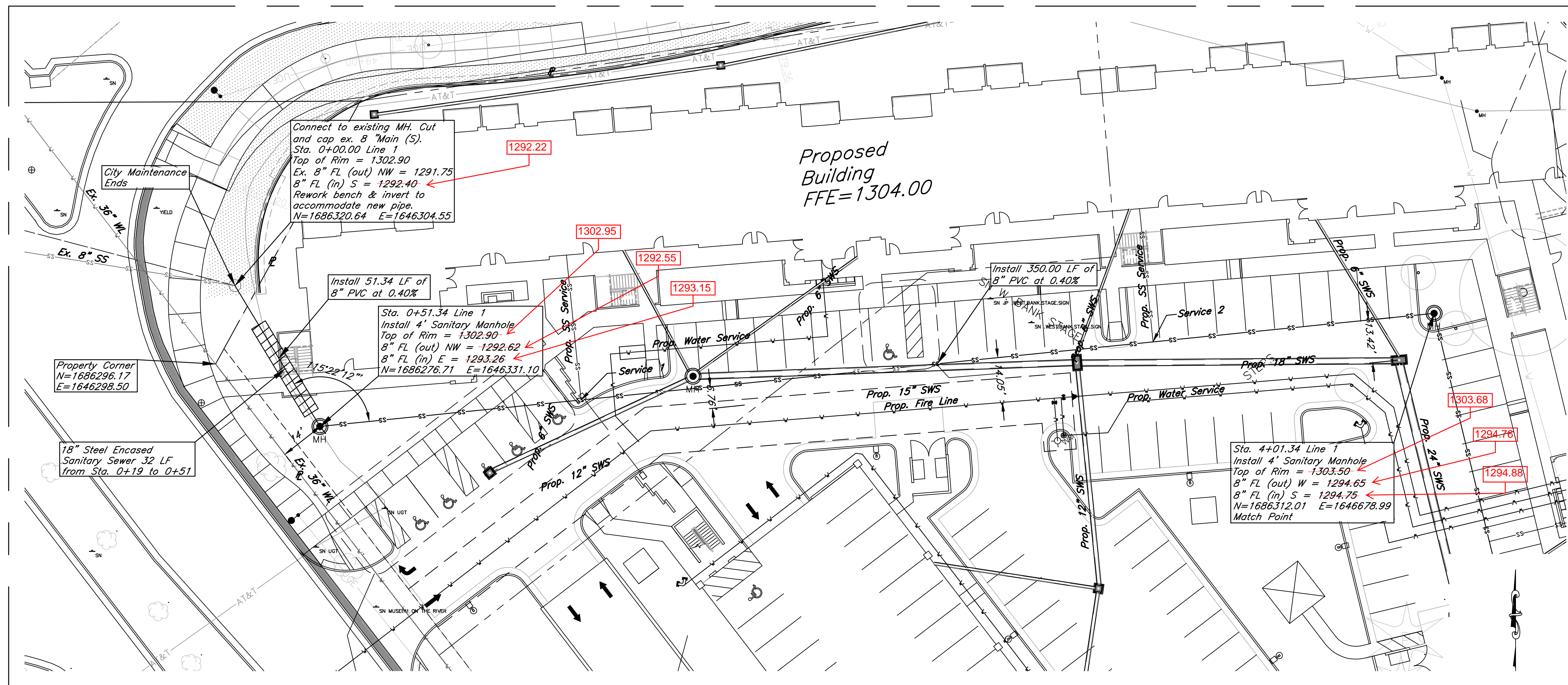
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed by 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.

KEMILLER ENGINEERING PA

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

May 2016



8"x8"x6" Tee Service PROPOSED RISER TABLE

| NO. | TYPE | LOCATION | | FOR INFORMATION ONLY | | |
|-----|-------------|-------------|----------|----------------------|----------------------------|------------|
| | | LOT/BLOCK | LINE NO. | STATION/DIRECTION | APPROXIMATE LENGTH 8" PIPE | |
| | | | | | VERTICAL | HORIZONTAL |
| 1 | TEE SERVICE | LOT 1, BLK1 | 1 | 1+33/LT | N/A | 20' |
| 2 | TEE SERVICE | LOT 1, BLK1 | 1 | 3+13/LT | N/A | 20' |

8"x8"x6" Tee Service
 PARTIAL for Sta. 0+00 to Sta. 4+01.34 Line 1.

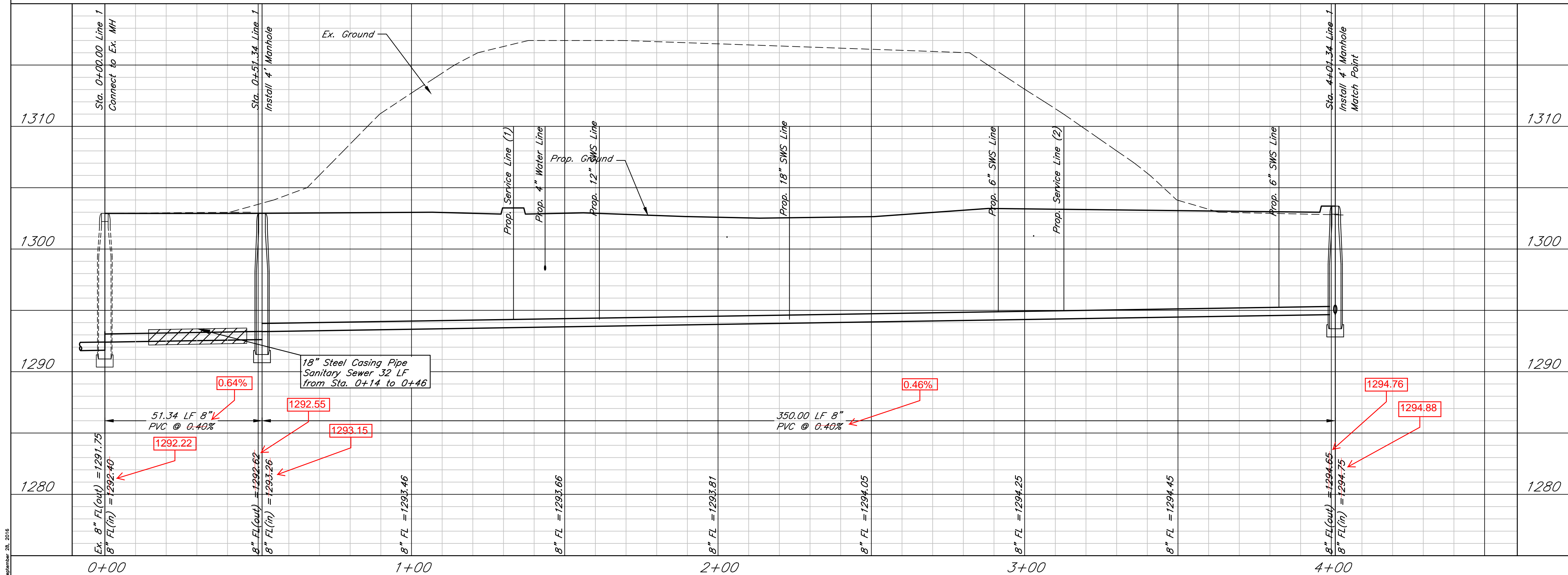
AS BUILTS

Contractor: McCullough Excavation
 Inspector: Matt Perez
 Date: 03/15/2017

KEMILLER
 ENGINEERING PA

117 E. Lewis,
 Wichita, KS 67202

(316)264-0242



DATE: 07.22.2016
 THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

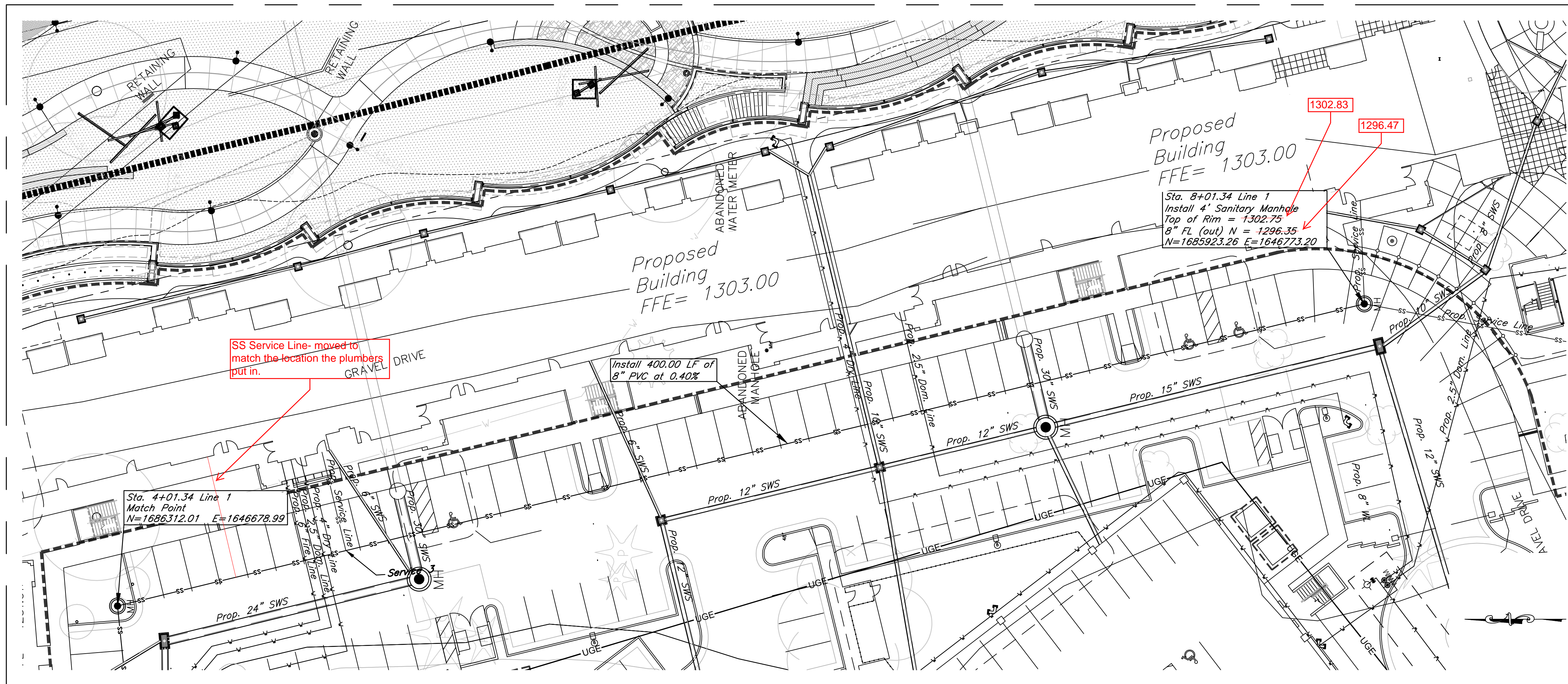
VERTICAL SCALE (IN FEET)
 1 inch = 5 ft.

HORIZONTAL SCALE (IN FEET)
 1 inch = 20 ft.

River Vista
Plan and Profile
 Wichita, Kansas

PROJECT NUMBER
 2338 PPS (607861)

| | | | | |
|--|------------------|--------------|-----------------|------------|
| KEMILLER ENGINEERING PA 117 E. Lewis, Wichita, KS 67202 (316)264-0242 | KEM NO. 15042 | FILE | DATE 03/2016 | SHEET |
| | DESIGN KM | DRAWN AHS | REVISED | 2.0 |



PROPOSED RISER TABLE

| NO. | TYPE | LOCATION | | | FOR INFORMATION ONLY | |
|-----|-------------|-------------|----------|-------------------|----------------------------|------------|
| | | LOT/BLOCK | LINE NO. | STATION/DIRECTION | APPROXIMATE LENGTH 8" PIPE | |
| | | | | | VERTICAL | HORIZONTAL |
| 3 | TEE SERVICE | LOT 1, BLK1 | 1 | 4+36.2/T | N/A | 20' |
| 4 | MH SERVICE | LOT 1, BLK1 | 1 | 8+01 | N/A | 20' |
| 5 | MH SERVICE | LOT 1, BLK1 | 1 | 8+01 | N/A | 20' |

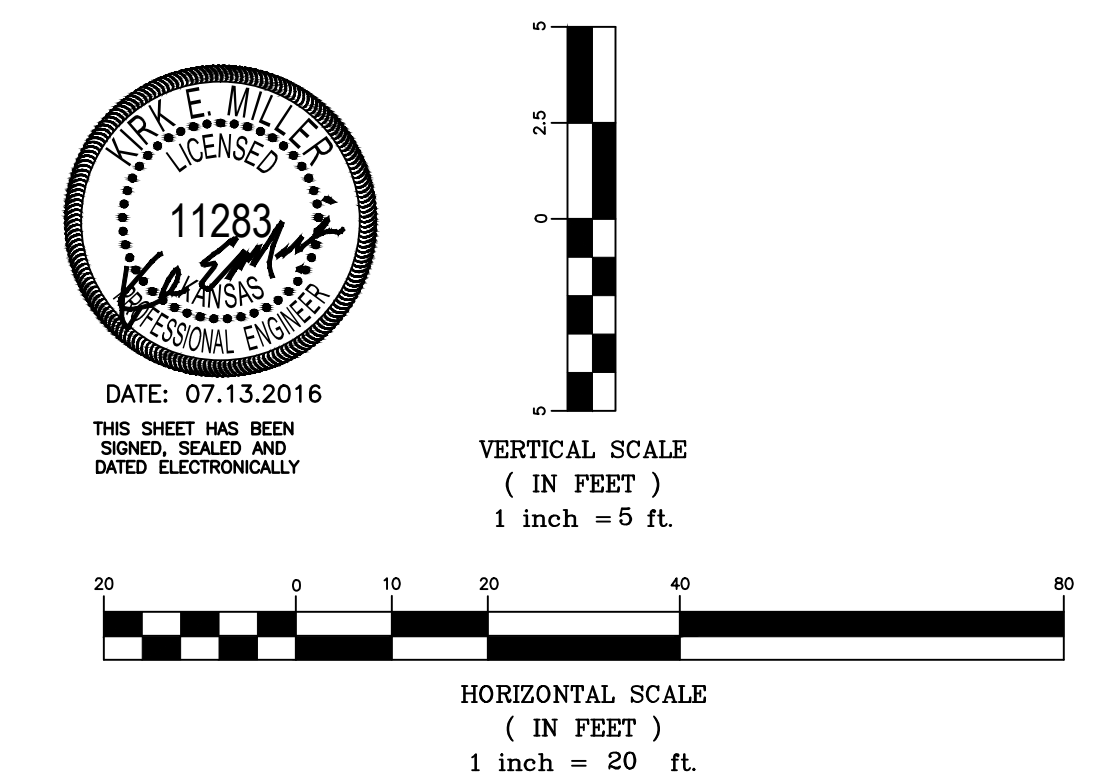
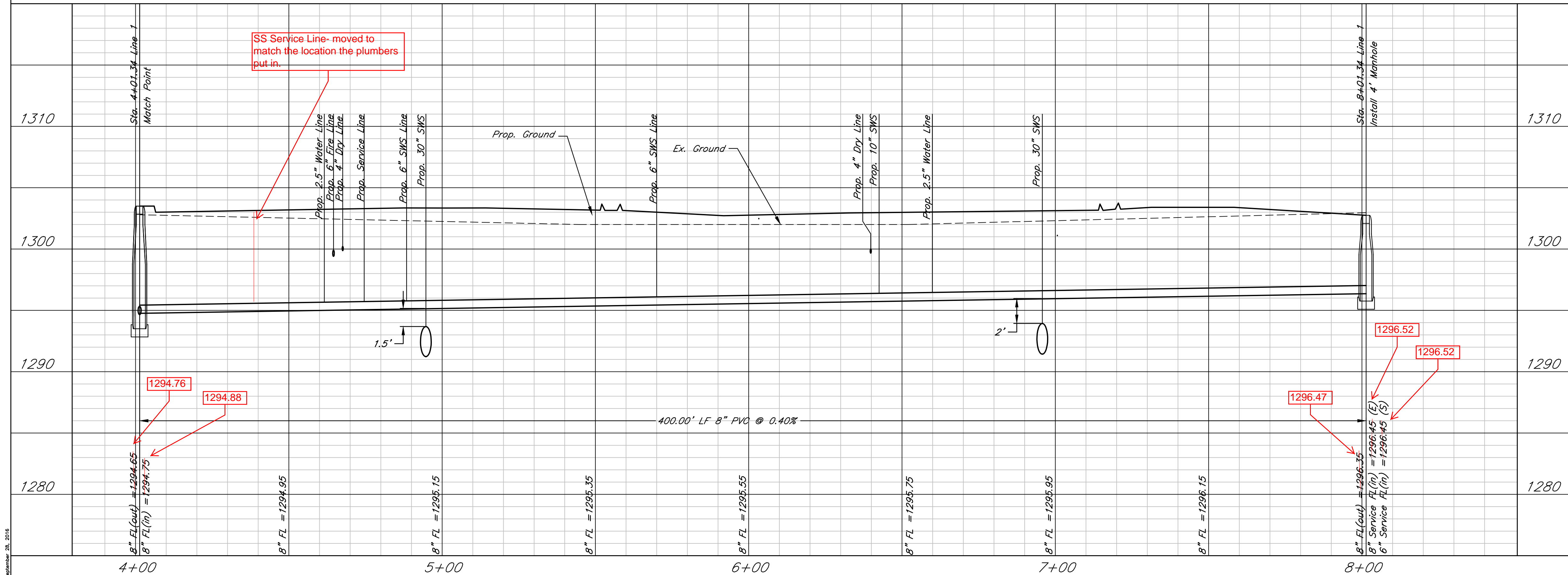
8"x8"x6" Tee Service
 8" MH Service
 6" MH Service
 Sta. 4+39

AS BUILTS

Contractor: McCullough Excavation
 Inspector: Matt Perez
 Date: 03/15/2017

KEMILLER
 ENGINEERING PA

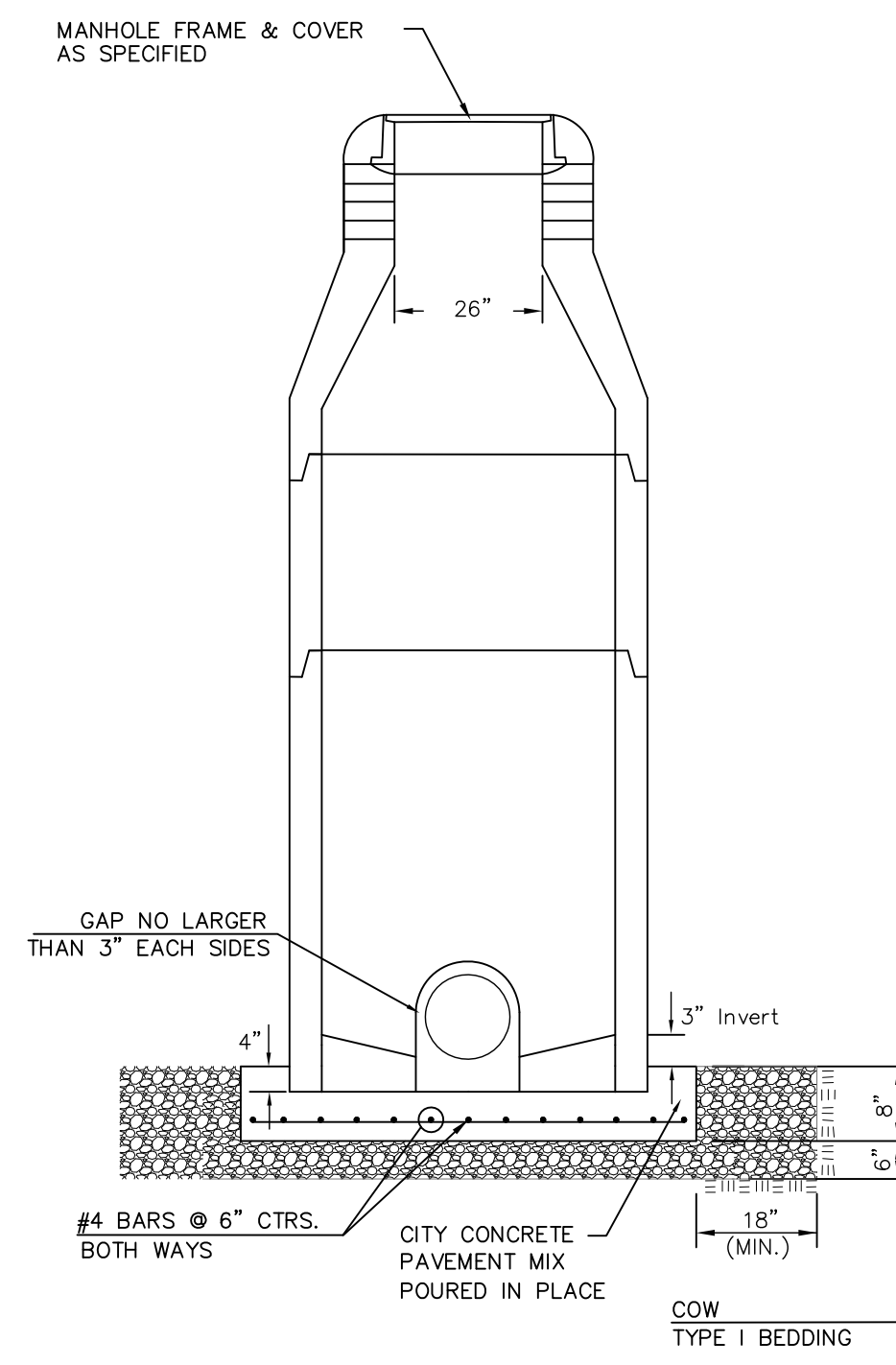
117 E. Lewis,
 Wichita, KS 67202 (316)264-0242



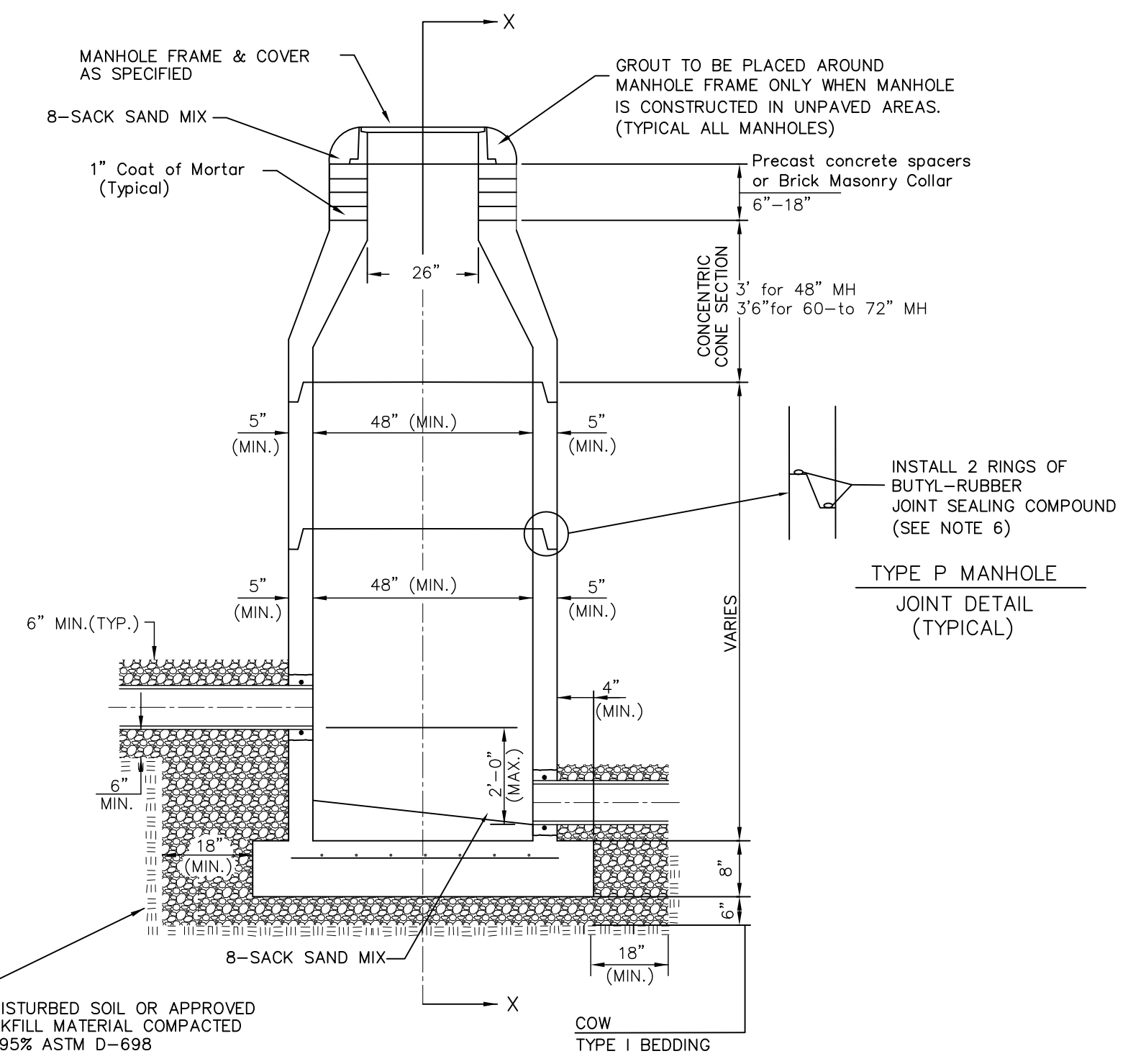
River Vista
Plan and Profile
 Wichita, Kansas

PROJECT NUMBER
 2338 PPS (607861)

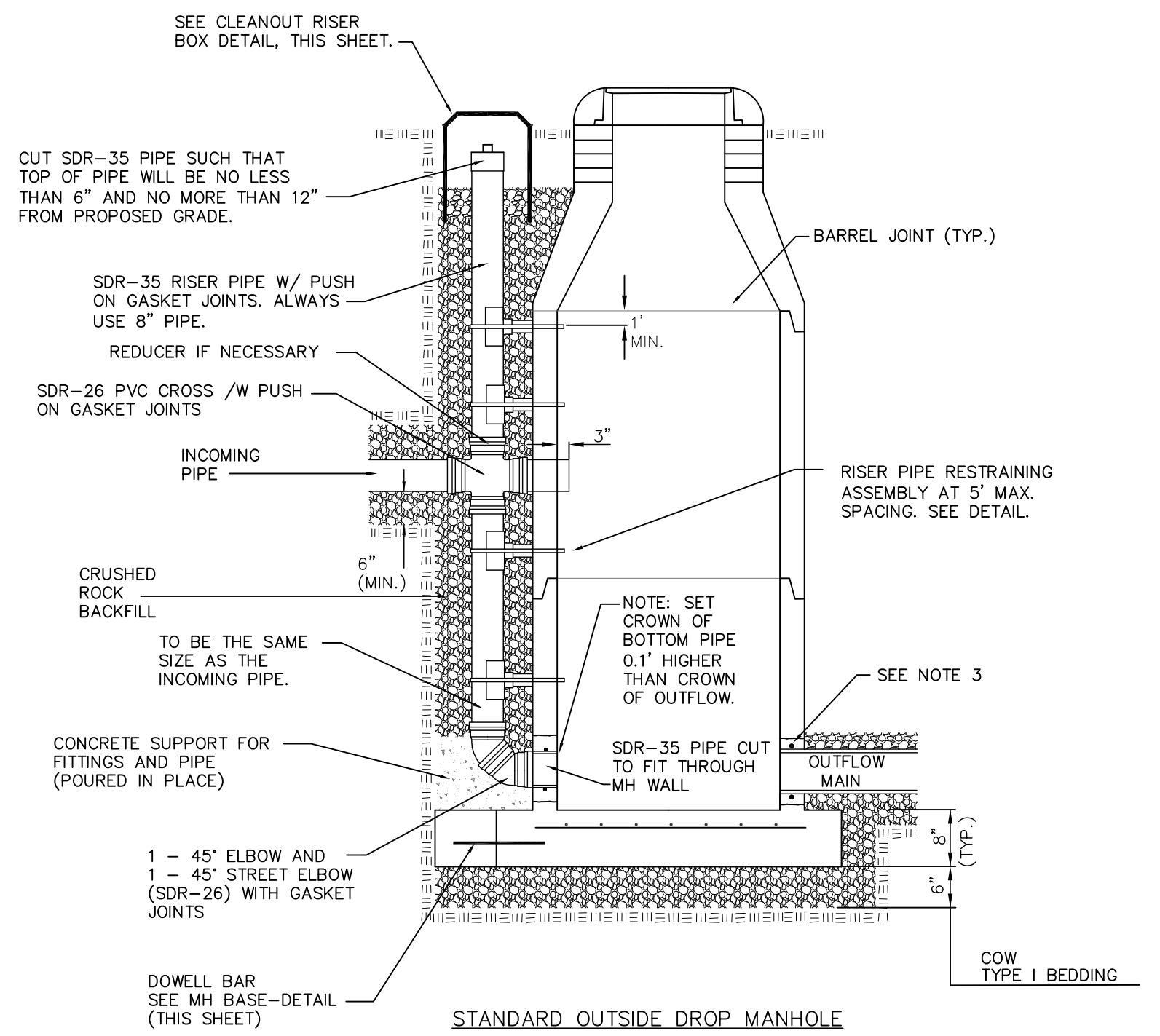
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| | DESIGN KM | DRAWN AHS | REVISED | |



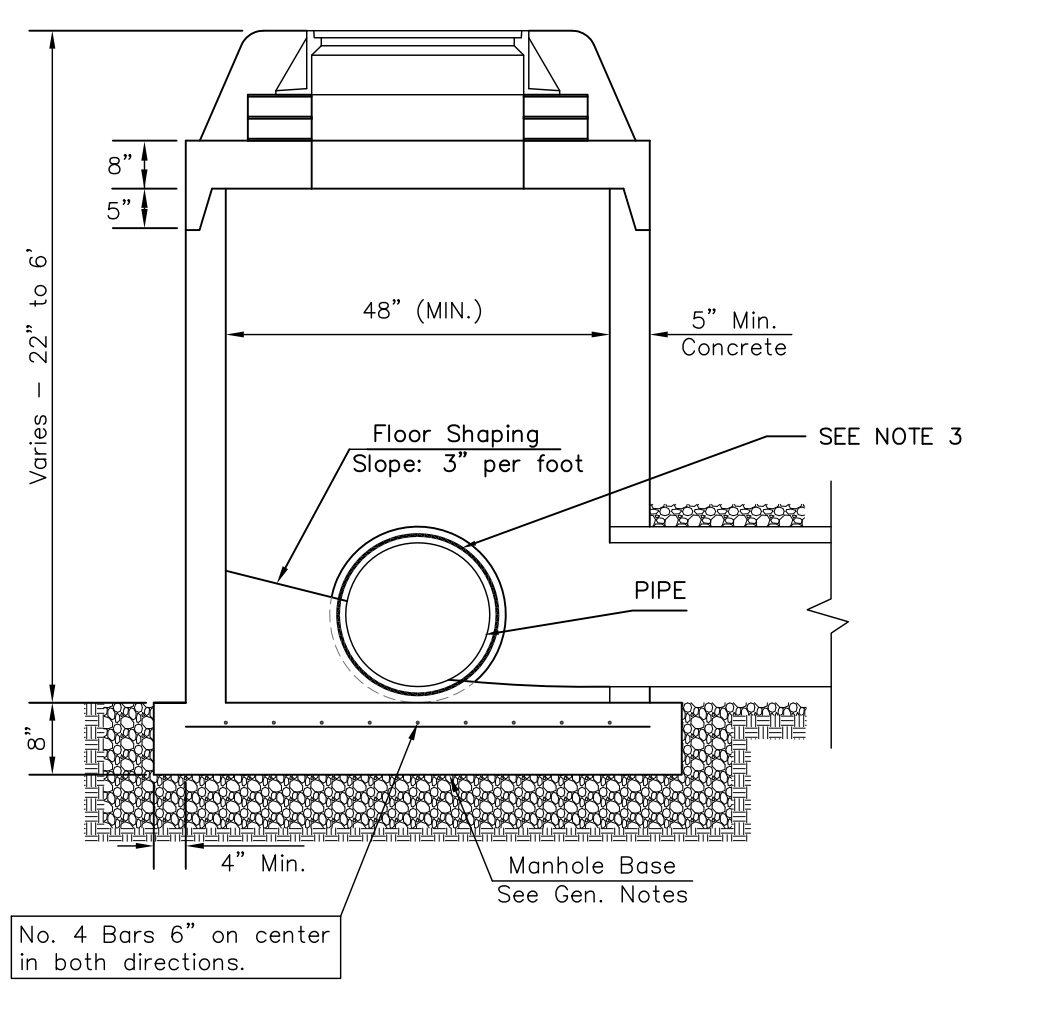
DOG HOUSE MANHOLE
(OVER EXISTING PIPE)
Not to Scale



STANDARD MANHOLE
Not to Scale



STANDARD OUTSIDE DROP MANHOLE
Not to Scale

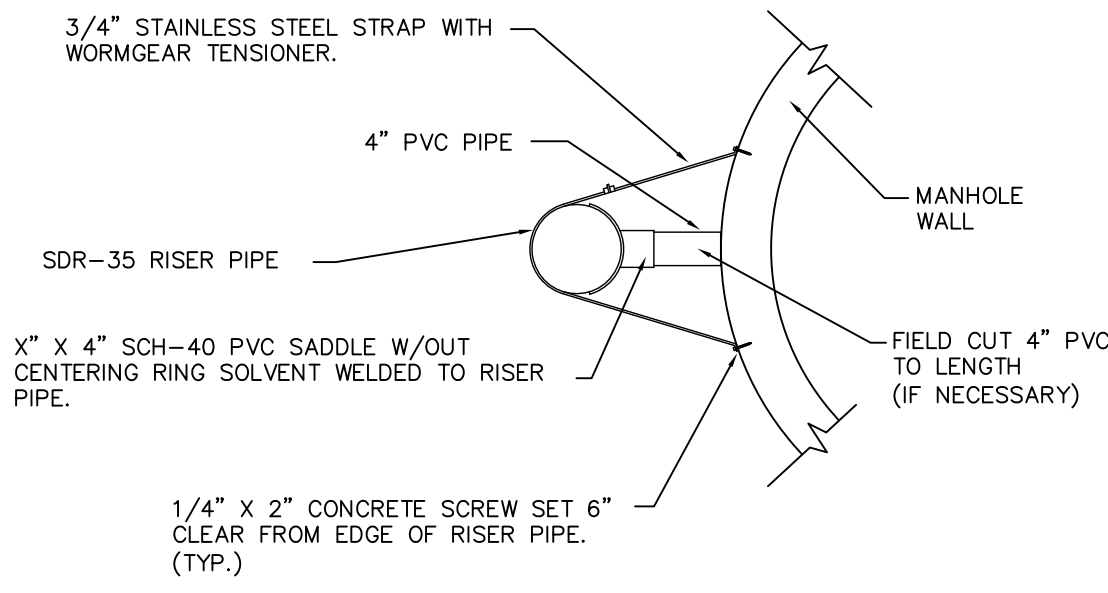


SHALLOW MANHOLE
Not to Scale

= COW TYPE I BEDDING
 = UNDISTURBED SOIL

PRECAST MANHOLE GENERAL NOTES

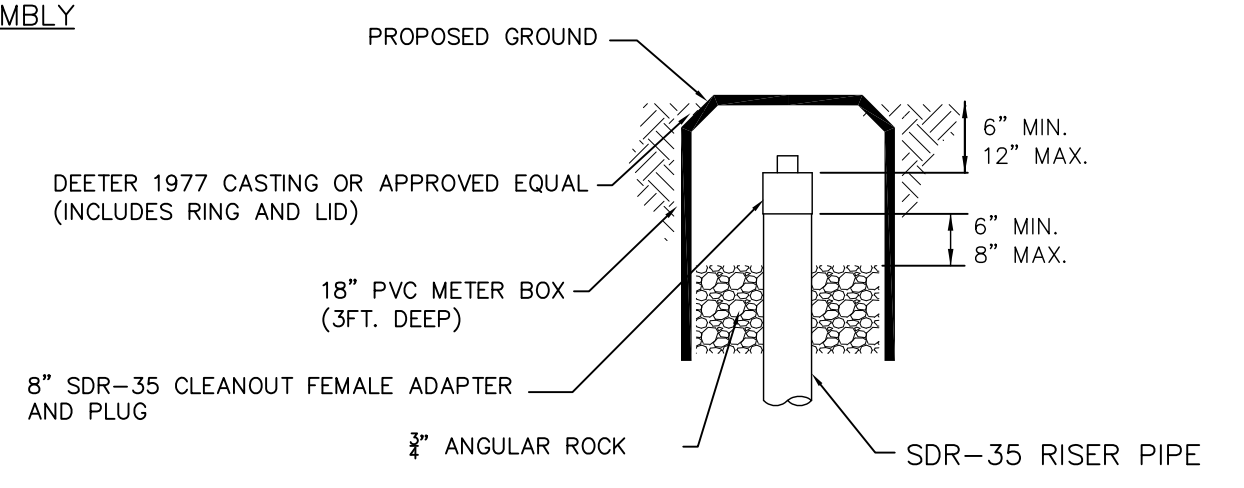
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP SHALL BE INSTALLED TO JOIN THE SEWER PIPE TO THE MANHOLE WALL. THE SEWER PIPE SHALL BE SUPPORTED WITH CRUSHED ROCK A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- EXTERIOR MANHOLE WALLS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- JOINT SEALING COMPOUND SHALL BE PER 804.4 OF STANDARD SPECIFICATIONS.
- ALL MANHOLE SECTION JOINTS THAT WILL BE IN GROUNDWATER OR GREATER THAN 12' DEEP SHALL BE WRAPPED WITH AN EXTERNAL JOINT SEAL PER SECTION 804.4 OF STANDARD SPECIFICATIONS, AS INDICATED BY THE PLANS.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE FOR DOG HOUSE MANHOLES.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO.4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- WALL THICKNESS SHALL BE 1" GREATER THAN MANHOLE DIAMETER IN FEET.
- OPENINGS SHALL BE CORE DRILLED INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS DRILLED INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN STANDARD MANHOLES SHALL NOT EXCEED 2' REGARDLESS OF PIPE SIZE. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4" UNLESS INDICATED OTHERWISE.
- PRECAST CONCRETE SPACERS OR BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.
- THE FULL DIAMETER OF THE MANHOLE SHALL EXTEND THE ENTIRE DEPTH OF THE MANHOLE TO THE CONE SECTION. NO REDUCTION IN MANHOLE DIAMETER WILL BE ALLOWED.
- REFER TO PLANS FOR SIZE OF OUTSIDE DROP RISER, SADDLES AND CROSS.



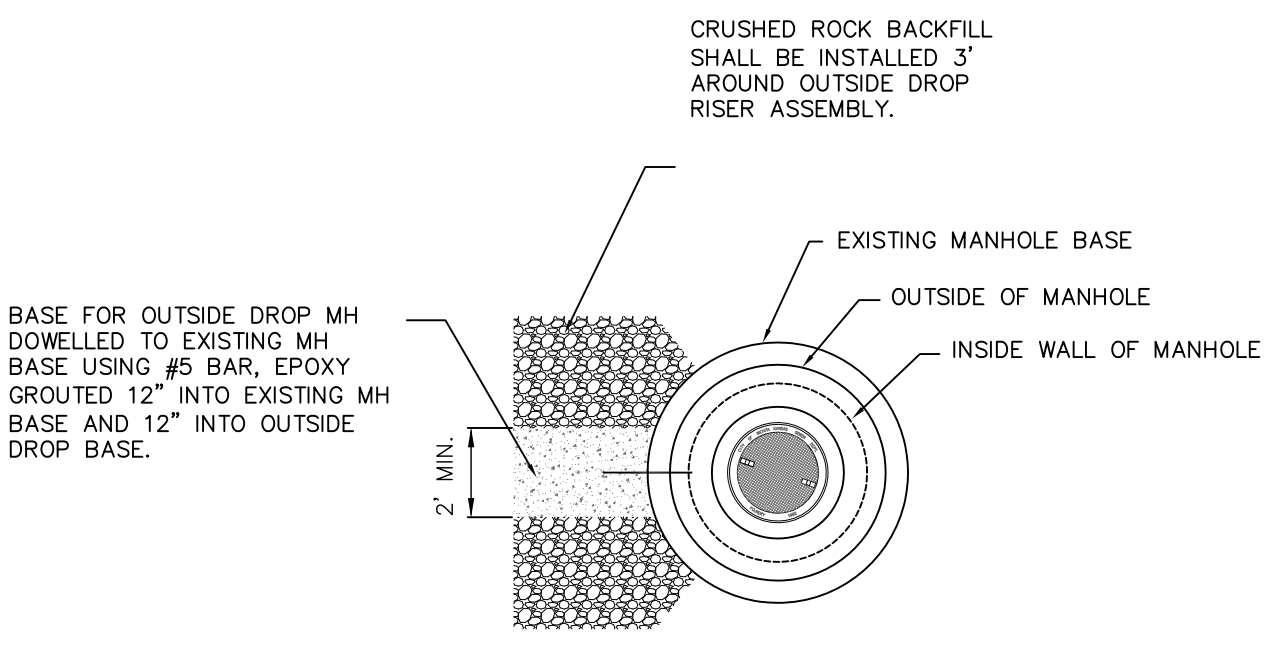
RISER PIPE RESTRAINING ASSEMBLY
Not to Scale

SANITARY SEWER MANHOLE DIAMETERS

| DIAMETER | DEPTH | PIPE SIZE |
|----------|----------|-----------|
| 4' | 0'-15' | 8"-18" |
| 5' | >15'-30' | 21"-30" |
| 6' | >30' | 36"-60" |



CLEANOUT RISERS BOX DETAIL
Not to Scale



MH BASE DETAIL
Not to Scale



REVISED JANUARY 2015

**PRECAST
SANITARY SEWER
MANHOLE**

CITY ENGINEER
GARY JANZEN, P.E.

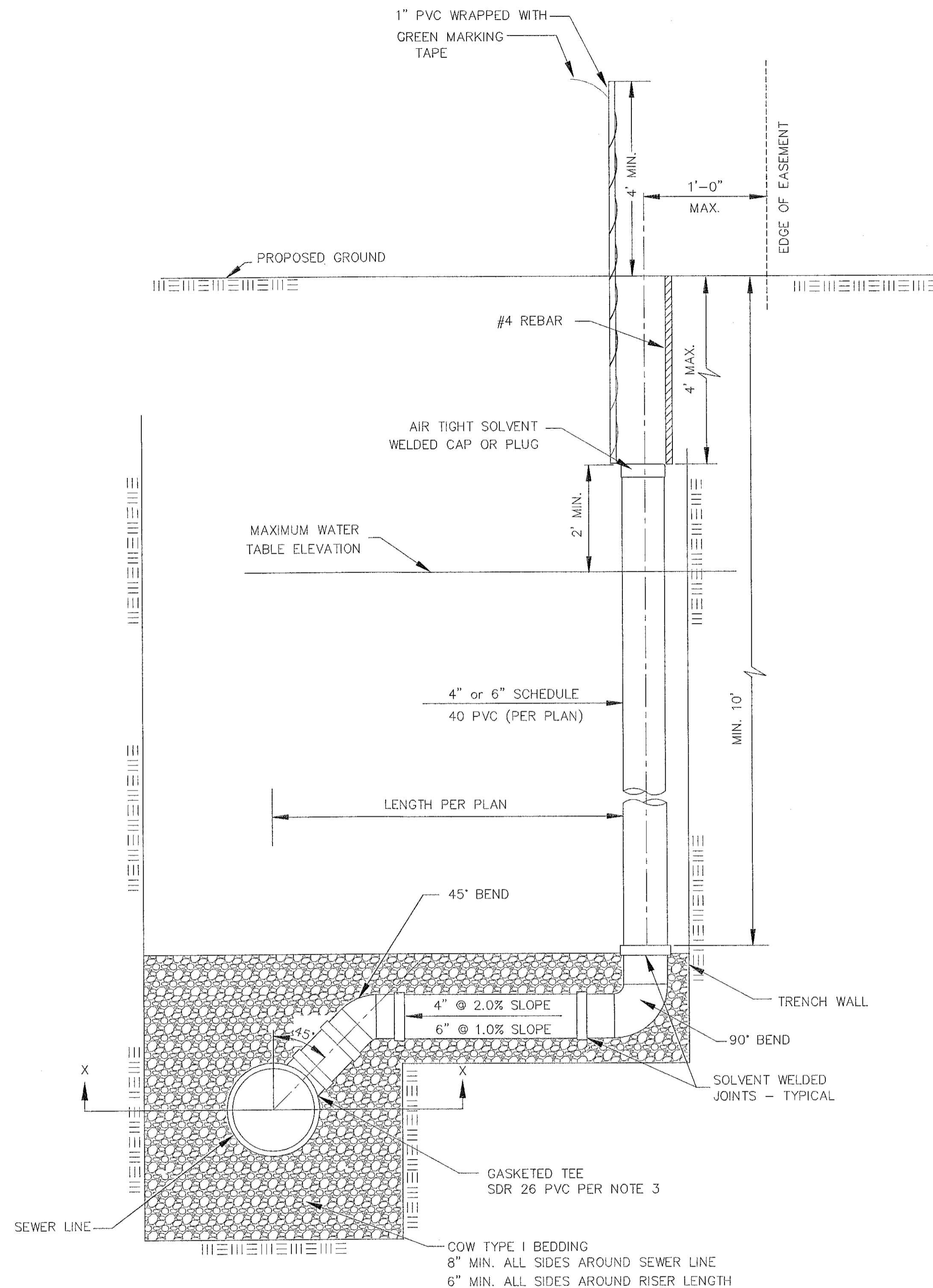
| | | |
|--|-----------------------------|---------------------|
| PROJECT NUMBER 2338 PPS | OCA NUMBER 607861 | DATE |
| CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501 | | SHEET 3.0 |

GENERAL NOTES

1. APPLICATION. Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table, where the sanitary sewer main depth is greater than 12' below the proposed ground elevation, where the main is adjacent to a pond or wherever service lines would have to cross under storm sewer pipe. Installation of risers because of field conditions shall be as approved by the City Engineer. The location of the risers to serve developed property shall be approved by the property owner and the Construction Engineer.
2. MANHOLE STUB RISERS. Manhole stub risers be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flowline of the manhole stub and the flowline of the sanitary sewer line out of the manhole shall not exceed 2'. Risers shall be utilized at manholes as indicated in Note 1. Manhole stub riser shall be set such that the top of the stub is not lower than the top of the sanitary sewer line.
3. SIZING. Risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers are required because of field conditions, the risers shall be 6" diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers shall be approved by the construction Engineer prior to installation.
4. RISER MATERIAL. Risers shall be constructed of Schedule 40 PVC Pipe, meeting the requirement of the latest revision of A.S.T.M.. All pipe joints shall be solvent welded. Full body tee shall be SDR 26 PVC pipe.
5. ROCK ENCASUREMENT. Riser connection to clay pipe sanitary sewers shall be rock encased both ways from the riser centerline. The rock encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary sewer mains shall be rock encased one foot each way from the riser centerline. Crushed rock shall conform to ASTM C-33, Gradation No. 67, and shall meet all requirements for Portland Cement Concrete pavement Coarse Aggregate, Section 406.2, City of Wichita Standard Specifications.
6. BEDDING. Beyond the limits of the rock encasement, bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
7. SUPPORT OF RISERS. Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and back filling the riser pipe shall be approved by the Construction Engineer.
8. PLUGGING. The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
9. TOP OF THE RISER PIPE. The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. Where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation 2' (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
10. MARKING. Locations of the ends of the sanitary sewer riser pipe shall be marked by installing 1" PVC from the top of the riser to a minimum of 4' above the top of finished grade. No. 4 rebar shall be placed centered over the riser from the cap to the existing ground. The 1" PVC pipe shall be wrapped with green colored plastic tape, for the full length above ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.
11. LOCATION MEASURES. The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicate the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser in tabular format.
12. RISER LOCATION. The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
13. PAYMENT. "Riser Assembly, Vertical" shall be paid for at the contract unit price per each, which shall be full compensation for all pipe, fittings, marking tape, length of backfill, labor, site restoration, and any other items necessary to complete the work.

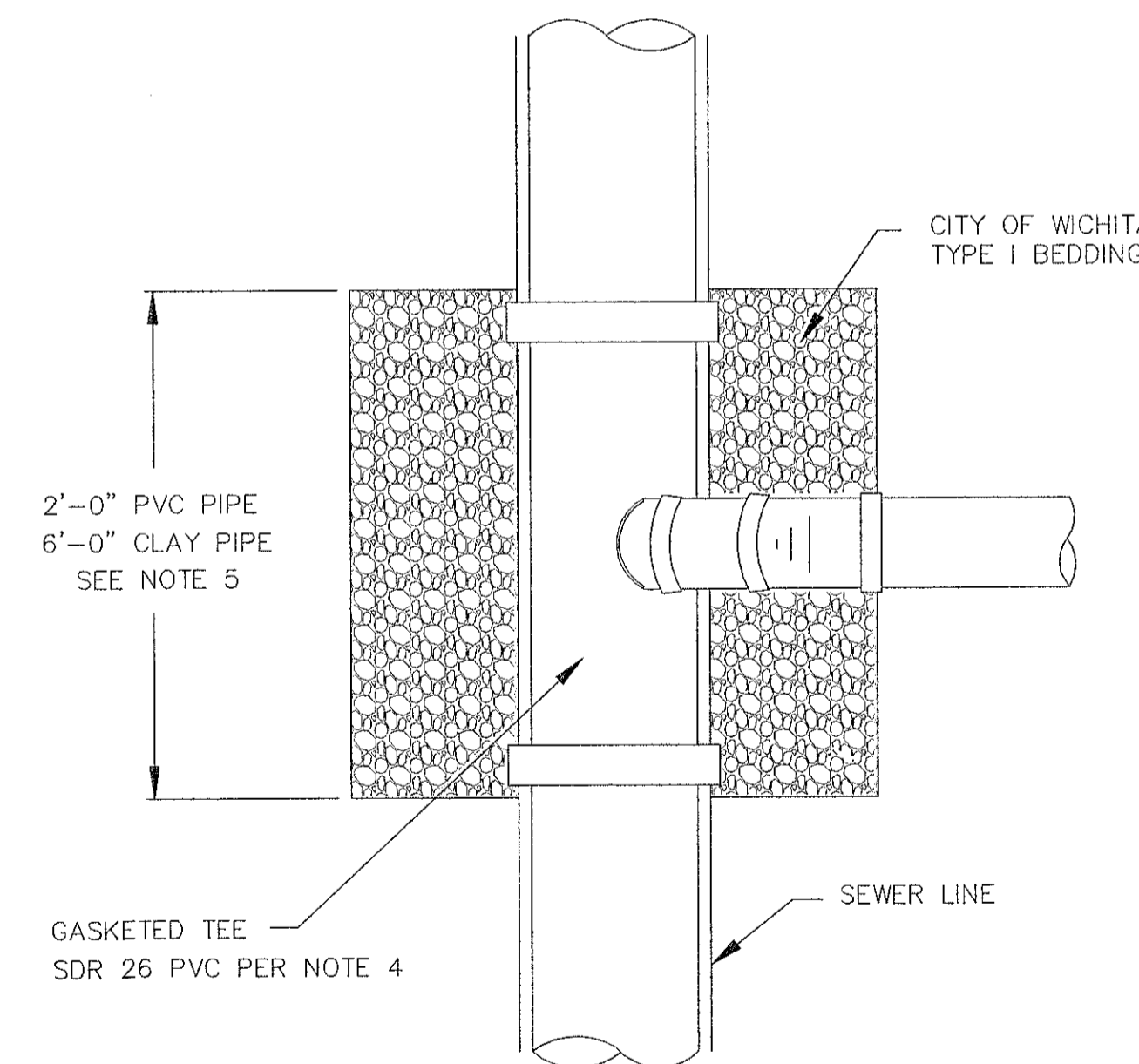
"Riser Assembly, Manhole Stub" shall be paid for at the contract unit price per each, which shall be full compensation for all labor material and incidentals necessary to complete the work including all pipe, fittings, rock encasement, and all other items as required and listed for "Riser Assembly, Vertical"

NOTE: RISER PIPE REQUIREMENTS AT MANHOLE CONNECTION SHALL BE SIMILAR TO THOSE SHOWN ABOVE.



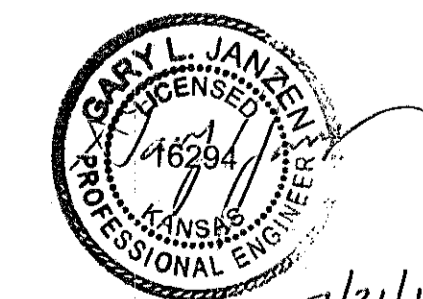
| SANITARY SEWER RISER TABLE | | | | | | | FOR INFORMATION ONLY | |
|----------------------------|-----------------------|----------|-----------|----------|---------|-----------|----------------------|-----------------|
| NUMBER | TYPE | LOCATION | | | STATION | DIRECTION | APPROXIMATE LENGTH | |
| | | LOT NO. | BLOCK NO. | LINE NO. | | | VERTICAL (FT) | HORIZONTAL (FT) |
| 1 | 4" MANHOLE CONNECTION | | | | | | | |
| 2 | 6" MANHOLE CONNECTION | | | | | | | |
| 3 | 4" TEE | | | | | | | |
| 4 | 6" TEE | | | | | | | |

NOTE: TABLE FOR REFERENCE ONLY AND SHOULD BE ON EACH APPLICABLE PLAN SHEET.




NOTE: NON SHEAR COUPLING TO BE USED WHEN HOOKING TO CLAY PIPE.

TYPICAL SECTION X-X



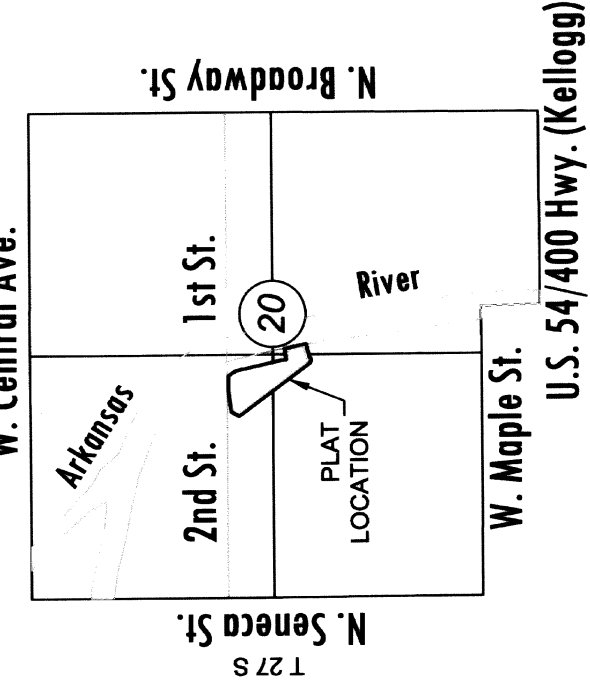
07/21/15

| | | | | | |
|---|------------|------|--|--|--|
|  CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION | | | REVISED: JULY 2015 VERTICAL RISER ASSEMBLY SEWER DETAIL CITY ENGINEER GARY JANZEN, P.E. | | |
| PROJECT NUMBER | OCA NUMBER | DATE | | | |
| 2338 PPS | 607861 | | | | |
| CITY ENGINEER'S OFFICE | | | SHEET | | |
| CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501 | | | 3.1 | | |

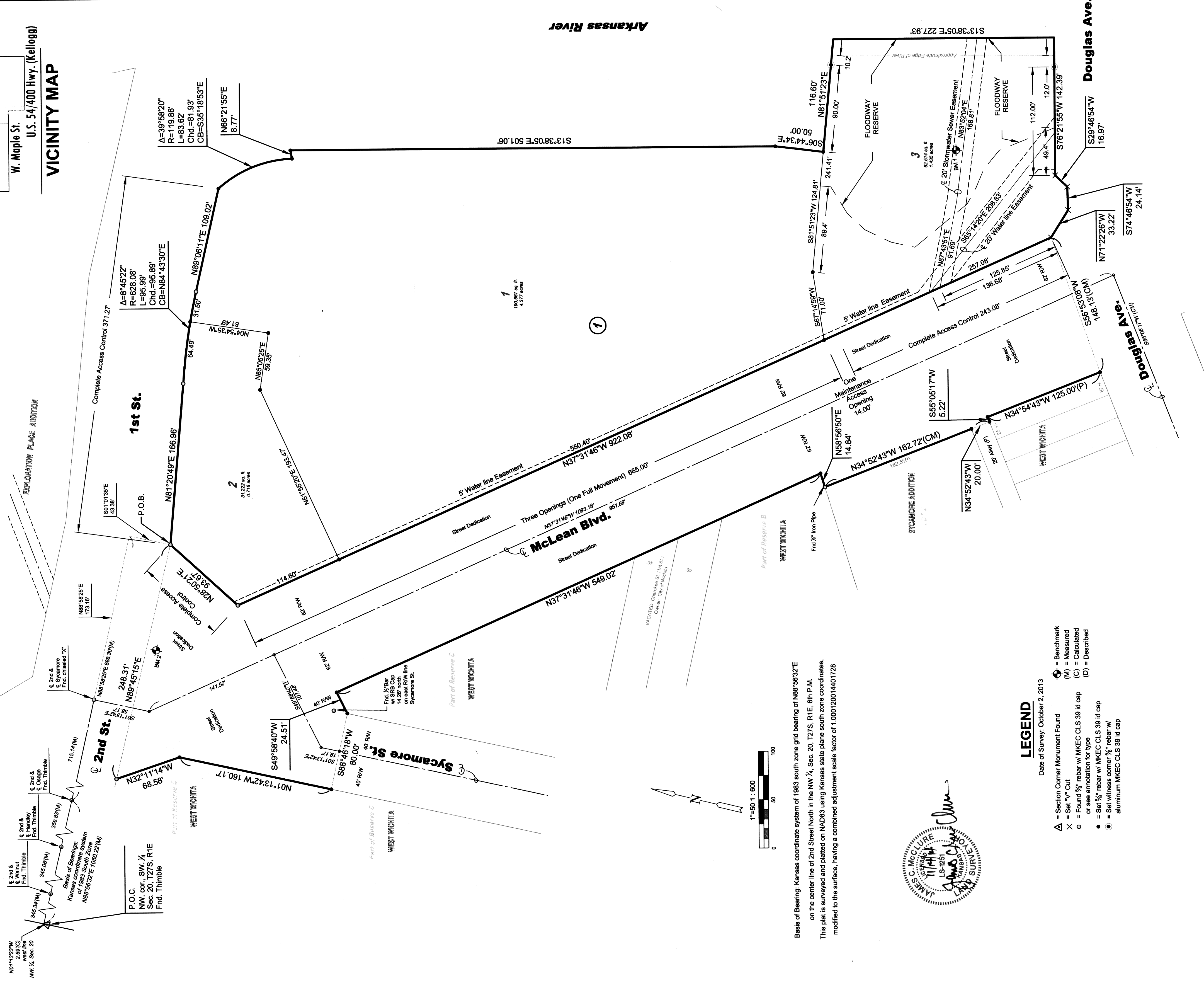
FINAL PLAT

RIVER VISTA VILLAGE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



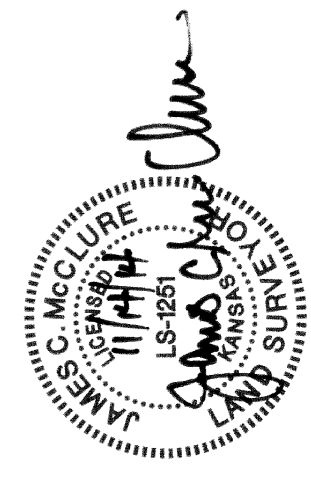
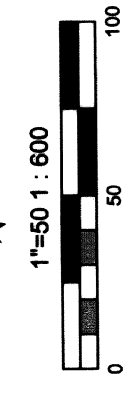
PC 249-5B



P.O.C.
NW cor., SW ¼,
Sec. 20, T25S, R1E
Frd. Thimble

USC&GS brass disk in concrete post stamped Wichita 1854, 1.2 feet above ground, 131 feet north-northwest of north curb of Douglas, 5 feet west of top of west bank of Arkansas River.
Elev.=1803.02 NAVD88 Datum.

Base of Bearing: Kansas coordinate system of 1983 south zone grid bearing of N88°56'32"E on the center line of 2nd Street North in the NW ¼, Sec. 20, T25S, R1E, 6th P.M.
This plat is surveyed and platted on NAD83 using Kansas state plane south zone coordinates, modified to the surface, having a combined adjustment scale factor of 1.000120014401728



LEGEND

- Date of Survey: October 2, 2013
- △ = Section Corner Monument Found
 - X = Set "V" Cut
 - = Found 1/2" rebar w/ MKEC CLS 39 id cap or see annotation for type
 - = Set 1/2" rebar w/ MKEC CLS 39 id cap
 - ⊙ = Set witness corner 1/2" rebar w/ aluminum MKEC CLS 39 id cap
 - ⬠ = Benchmark
 - (M) = Measured
 - (C) = Calculated
 - (D) = Described

BENCHMARKS

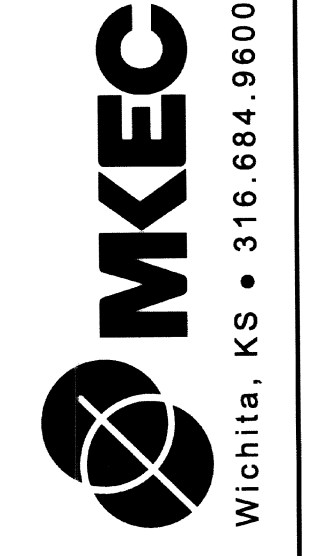
- BM 1. USC&GS brass disk in concrete post stamped Wichita 1854, 1.2 feet above ground, 131 feet north-northwest of north curb of Douglas, 5 feet west of top of west bank of Arkansas River.
Elev.=1803.02 NAVD88 Datum.
- BM 2. Chiseled square on north corner of traffic signal vault in island on southeast corner of 2nd Street and McLean Boulevard, north vault of two vaults.
Elev. = 1302.18 NAVD88 Datum

| MINIMUM PAD ELEVATIONS LOWEST OPENINGS | | |
|--|-------|------------------|
| LOTS | BLOCK | ELEVATION NAVD88 |
| 1, 2, & 3 | 1 | 1300.0 |

FLOODWAY RESERVE NOTE

The depicted floodway shown hereon represents the approximate location of the base flood elevation at the time of plating per development plans. The base flood elevation for this location is approximately 1,295.4 feet NAVD88.

*Owner/Developer(s) shall refer to the Base Flood Elevations published upon the current and effective Federal Emergency Management Agency Flood Insurance Rate Maps prior to any construction activities.



PC 249-5B

1/2