

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 ADJUTING 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 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.

- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER 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 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.

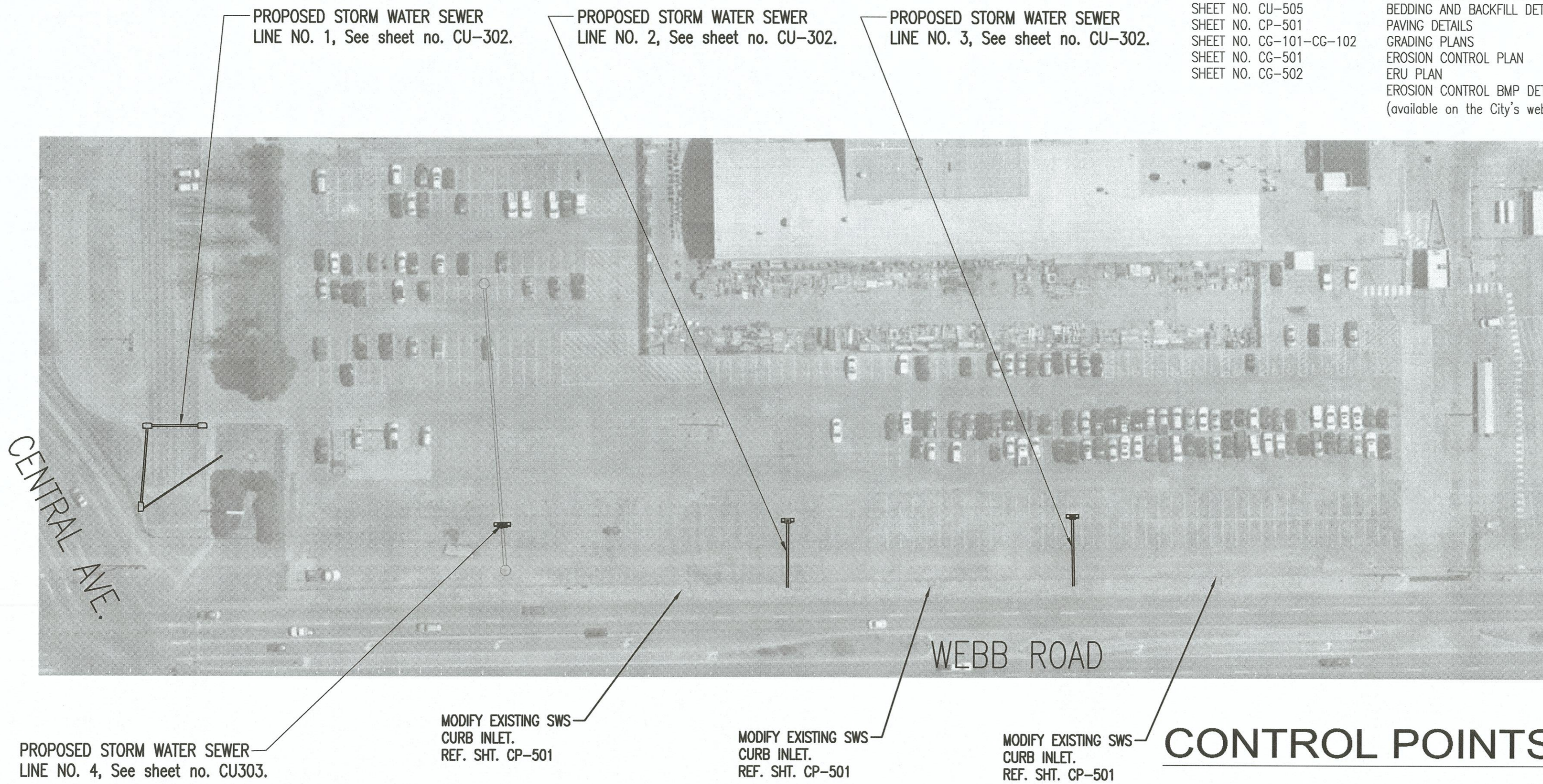
- CITY MAINTENANCE OF STORM SEWER ENDS AT THE LAST STRUCTURE IN THE EASEMENT OR RIGHT-OF-WAY.

- 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.

- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUND AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT AS 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 OF THE MANHOLE.



BENCHMARKS EM

- BM #201 - CHISELED SQUARE ON SOUTHEAST CORNER OF CONCRETE PAD FOR TRANSFORMER P13744 LOCATED ±200' SOUTHEAST OF INTERSECTION OF CENTRAL & WEBB. ELEV.=1364.67 (NAVD88)
- BM #202 - CHISELED SQUARE ON SOUTH TOP OF LIGHT POLE BASE LOCATED IN THE SIDEWALK OFF THE SOUTHWEST CORNER OF THE TEXTRON AVIATION ACTIVITY CENTER BUILDING. ELEV.=1363.87 (NAVD88)
- BM #203 - CHISELED SQUARE ON SOUTHWEST CORNER OF CURB INLET, LOCATE ON EAST SIDE OF WEBB RD., BETWEEN MKEC BUILDINGS ON THE WEST SIDE OF WEBB RD. ELEV.=1360.96 (NAVD88)
- BM #204 - CHISELED SQUARE ON SOUTHWEST CORNER OF CURB INLET, LOCATED ±20' SOUTH OF WEST GATE TRUCK ENTRANCE. ELEV.=1364.90 (NAVD88)

AS BUILTS

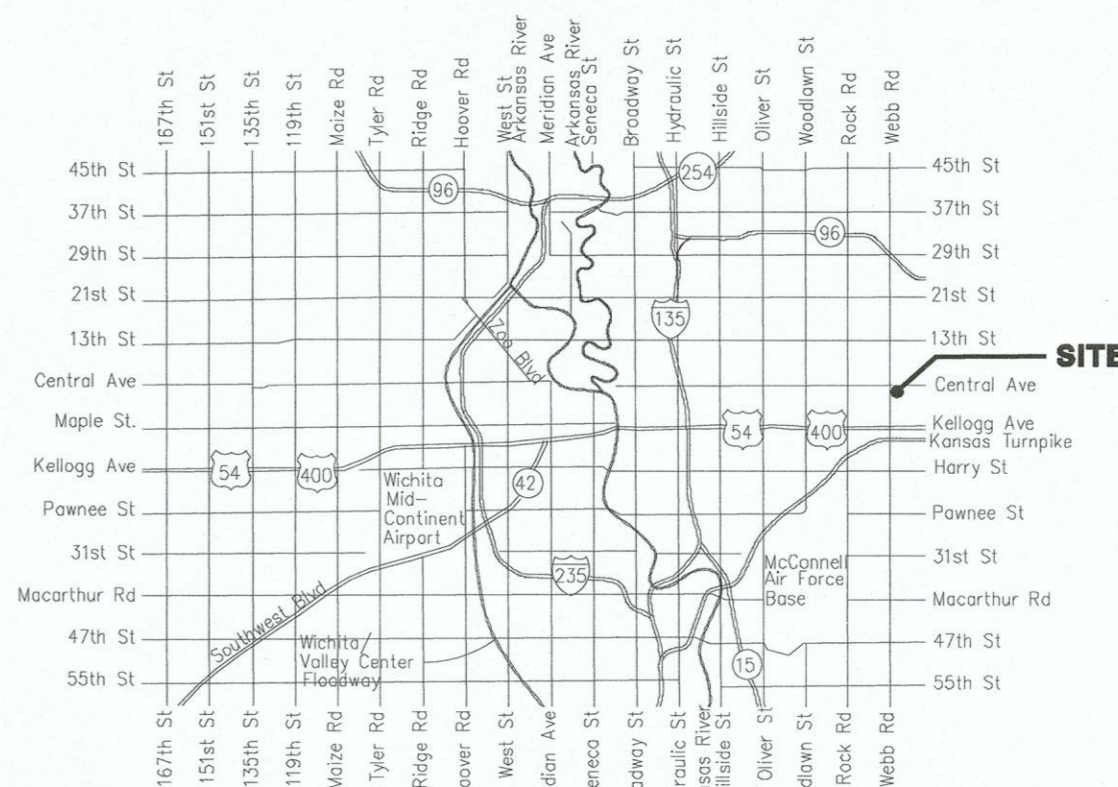
Contractor: Pearson Construction
Inspector: Matt Perez
Date: 11-23-2019

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

STORM SEWER IMPROVEMENTS to serve TEXTRON AVIATION EAST CAMPUS CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

Project Number
599 PPD (133119)



Vicinity Map

SHEET INDEX

SHEET NO. CU-301	PPD TITLE SHEET
SHEET NO. CU-302	SWS LINE NO. 1 & 2
SHEET NO. CU-303	SWS LINE NO. 3 & 4
SHEET NO. CU-501	STD. TYPE 1 CURB INLET DETAILS
SHEET NO. CU-502	STD. SINGLE TYPE 2 CURB INLET MANHOLE FRAME AND COVER
SHEET NO. CU-503	STD. DOUBLE TYPE 2 CURB INLET BEDDING AND BACKFILL DETAILS
SHEET NO. CU-504	PAVING DETAILS
SHEET NO. CU-505	GRADING PLANS
SHEET NO. CP-501	EROSION CONTROL PLAN
SHEET NO. CG-101-CG-102	ERU PLAN
SHEET NO. CG-501	EROSION CONTROL BMP DETAILS (available on the City's website)
SHEET NO. CG-502	

Stormwater Certification:
New Development or Redevelopment (Circle One)

Stormwater Permit # n/a

NOI State Permit # S-WA20-0076

NOI Federal Permit # KSR111559

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) = 1.9 acres

Disturbed Area (Acres) = 1.9 acres

Water Quality Treatment: n/a

Downstream Channel Protection: n/a

Detention: n/a

The BMP used for this development is n/a

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING AND STORMWATER DIVISION

Engineering Keith Hatcher 7-30-19

Stormwater Joe Heikle 7-30-19

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.

JULY 2019

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PEEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com



Date	Description
08/01/19	Addendum #1

TEXTRON AVIATION

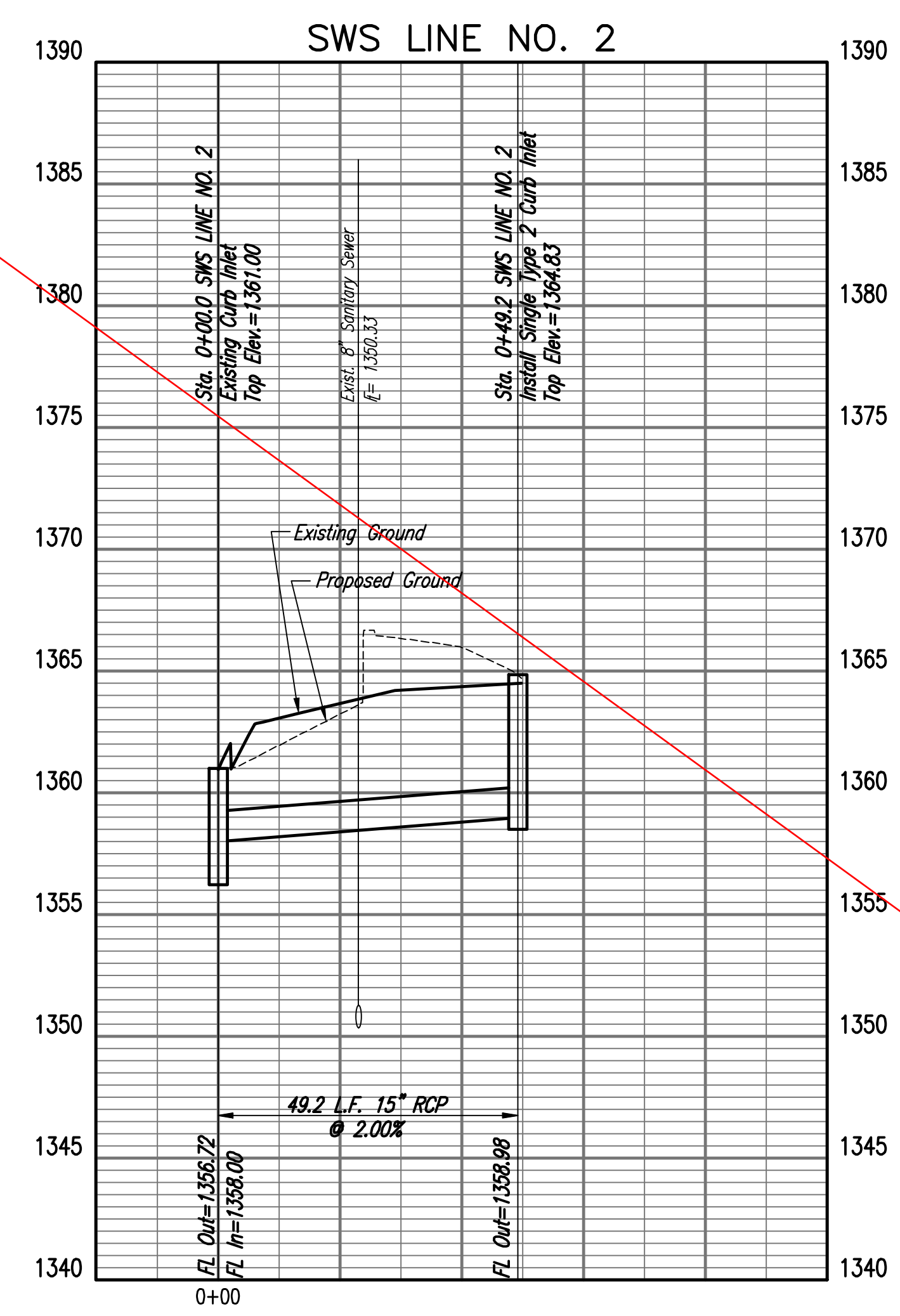
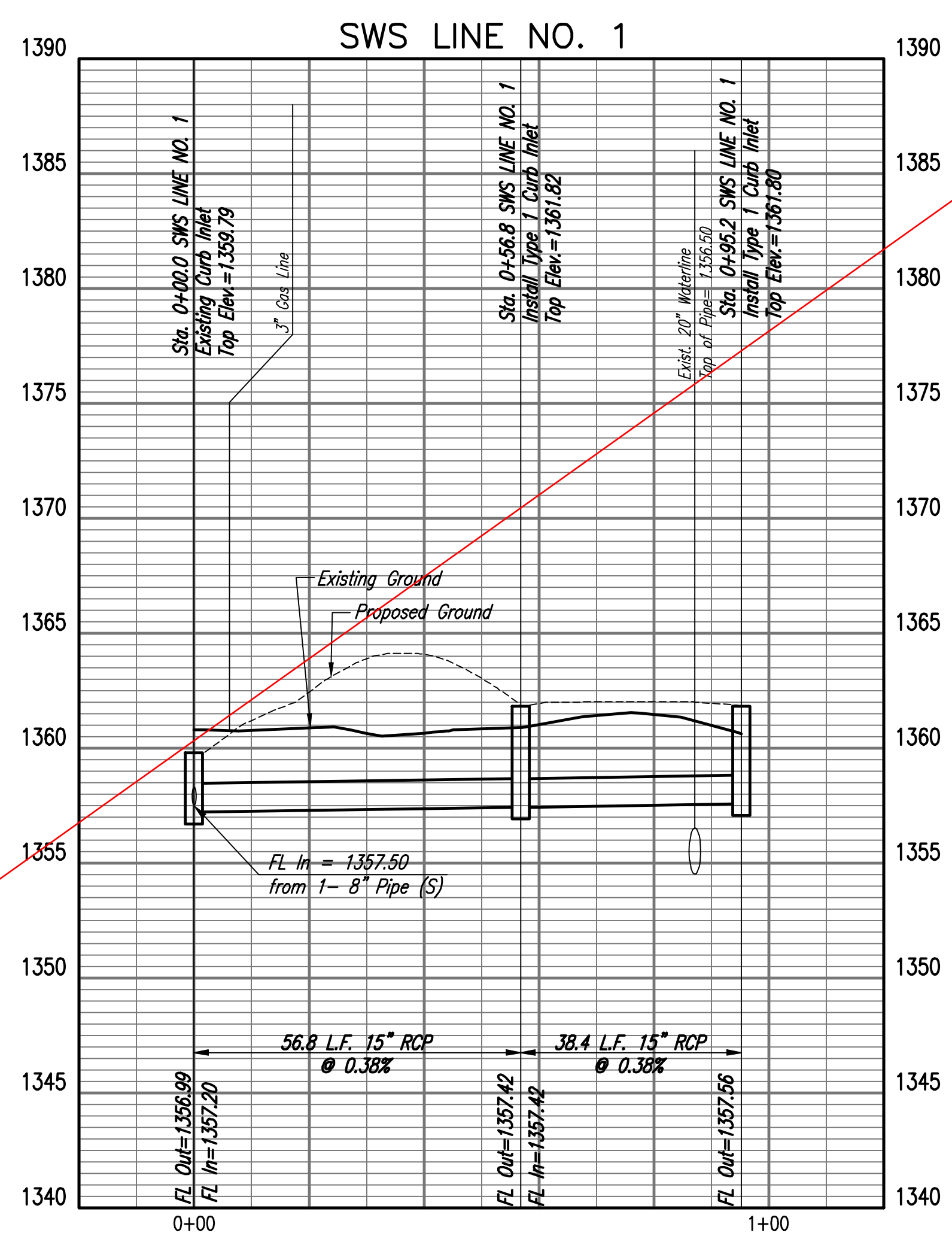
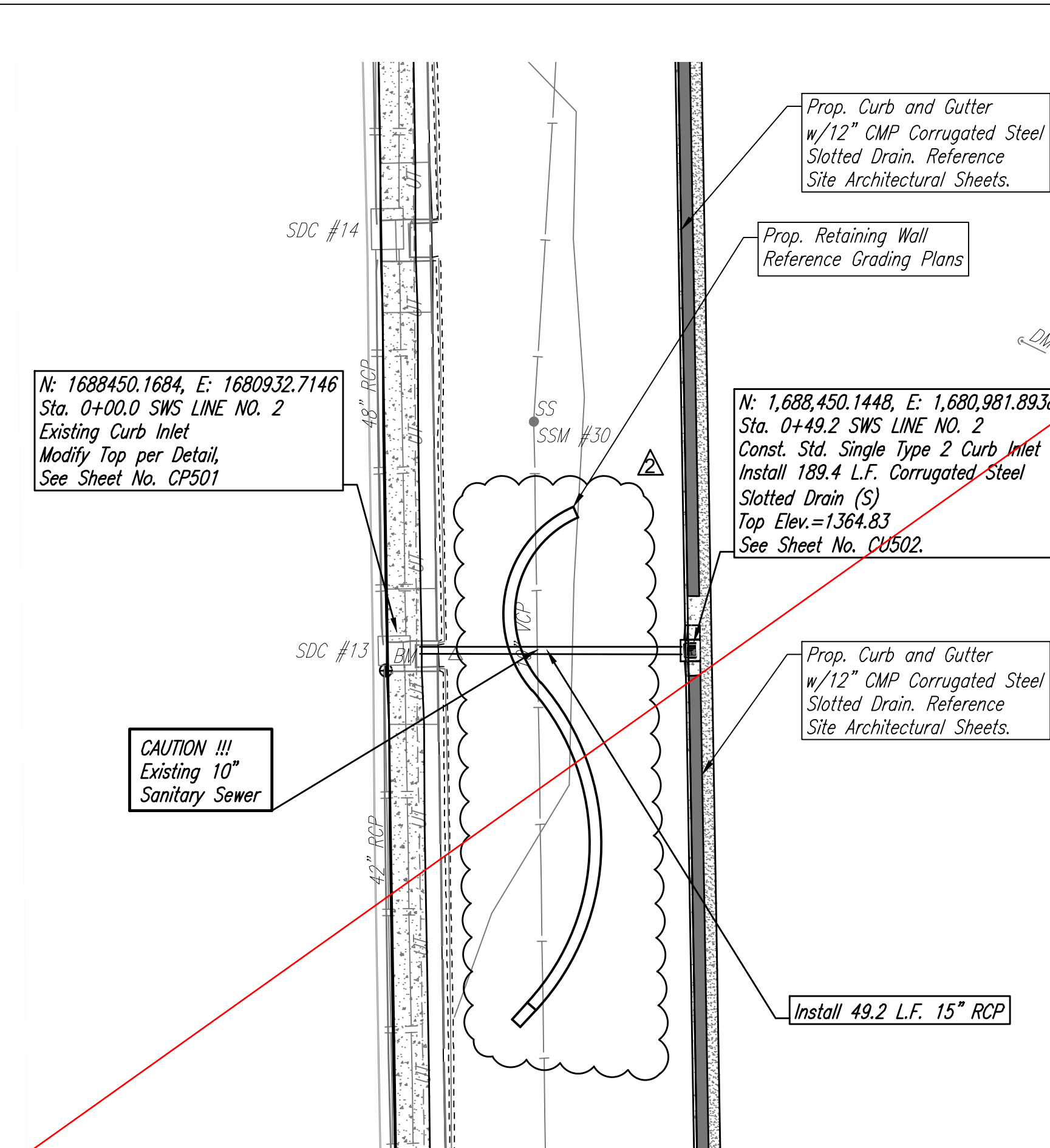
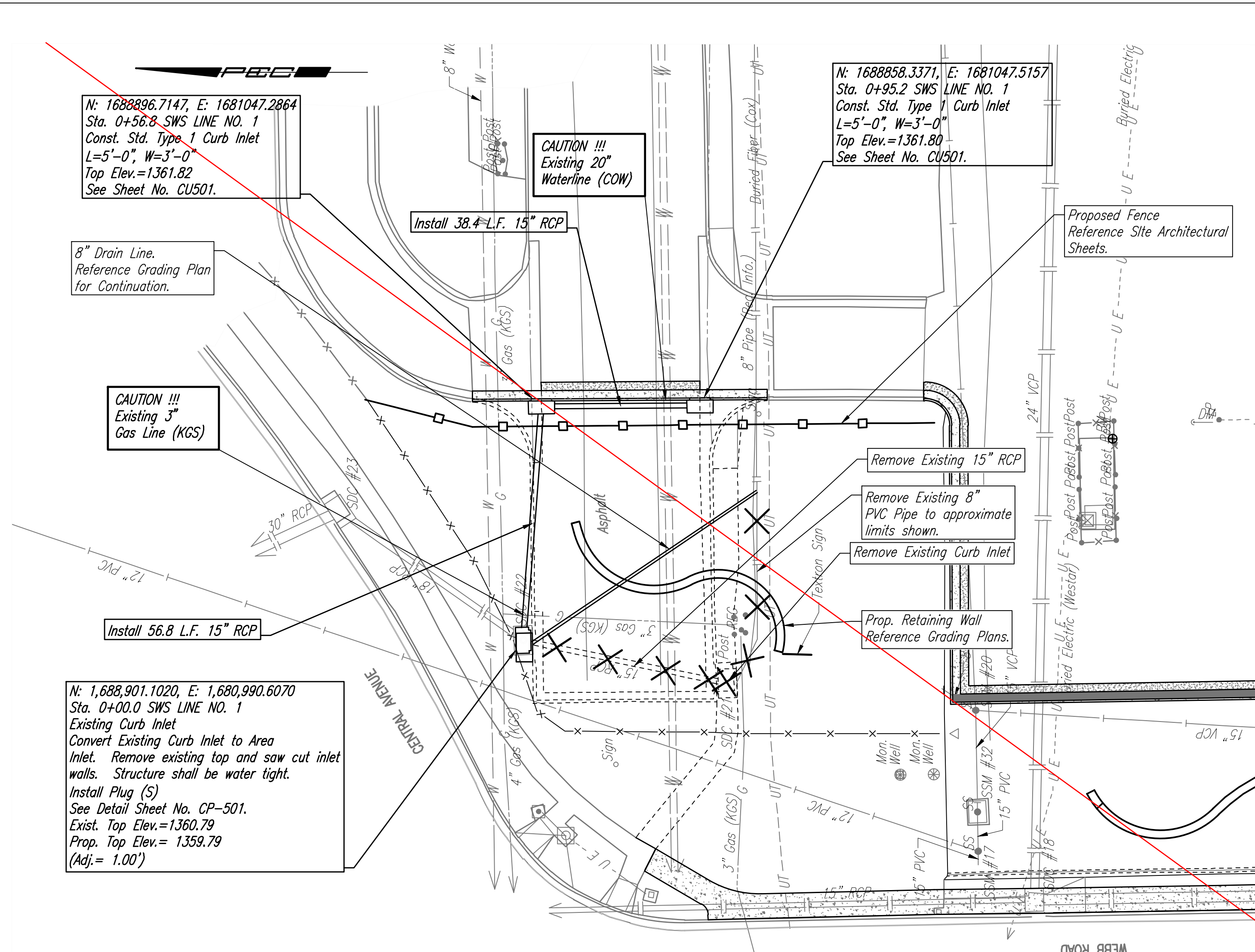
EAST CAMPUS - WEBB RD.
LANDSCAPING IMPROVEMENTS
(CENTRAL AVE TO TRUCK ENTRANCE)
WICHITA, KS

JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS
PPD TITLE SHEET

CU-301
EAST CAMPUS - TTXAV
CENTRAL AVE. & WEBB RD.

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SHEET NOT USED

MABCD REVIEWER:

SCALE:
 0 20 40 5
 PLAN: LAT. & LONG.
 PROFILE: HORIZ. SAME AS ABOVE
 VERT. 0 5

PEC
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com

Date	Description
8/8/19	ADDENDUM 3

TEXTRON AVIATION
 EAST CAMPUS - WEBB RD.
 LANDSCAPING IMPROVEMENTS
 (CENTRAL AVE TO TRUCK ENTRANCE)
 WICHITA, KS

JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS
 SWS LINE NO. 1 & 2

CU-302
 EAST CAMPUS - TTXAV
 CENTRAL AVE. & WEBB RD.

N: 1,688,149.9810, E: 1,680,936.2970
Sta. 0+00.0 SWS LINE NO. 3
Existing Curb Inlet
Modify Top per Detail.
See Sheet No. CP-501.

CAUTION !!!
Existing 8"
Sanitary Sewer

N: 1,688,149.5257, E: 1,680,986.2254
Sta. 0+49.9 SWS LINE NO. 3
Top Elev.=1365.21
See Sheet No. CU502.

N: 1,688,676.7967, E: 1,680,977.1662
Sta. 0+32.4 SWS LINE NO. 4
Const. Std. Single Type 2 Curb Inlet
Top Elev.=1363.90
See Sheet No. CU-502.

N: 1,688,662.0440, E: 1,681,147.5090
SWS LINE NO. 4, Sta. 2+01.1
Existing SWS MH

N: 1,688,649.1740, E: 1,680,977.4741
SWS LINE NO. 4, Sta. 0+30.6=
SWS LINE NO. 4A, Sta. 0+00.0
Const. Std. Double Type 2 Curb Inlet
over existing 24" VCP pipe
Remove top half of 24" pipe thru MH
Shape invert to provide smooth flow.
Top Elev.=1364.14

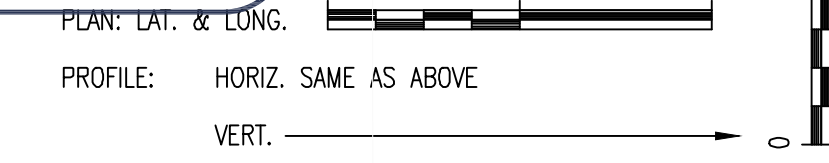
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SWS LINE NO. 4, Sta. 0+00.0
Existing SWS MH

AS BUILTS

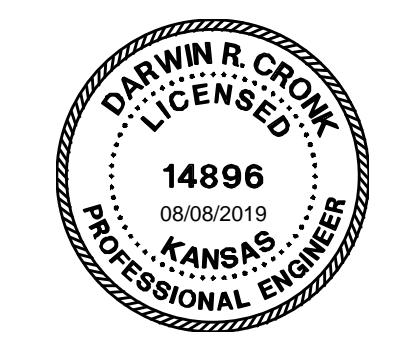
Contractor: Pearson Construction
Inspector: Matt Perez
Date: 11-23-2019

117 E. Lewis,
Wichita, KS 67202

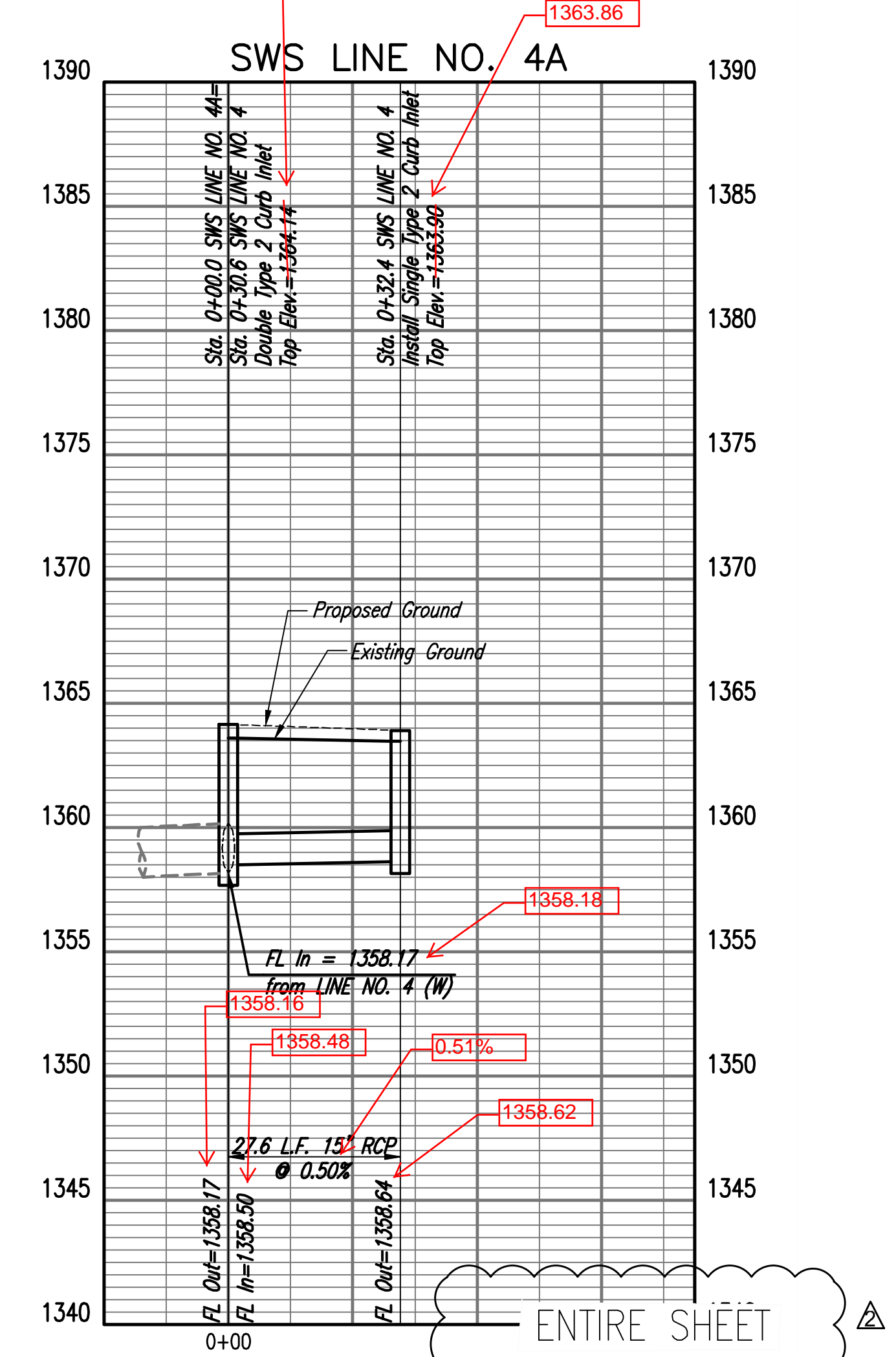
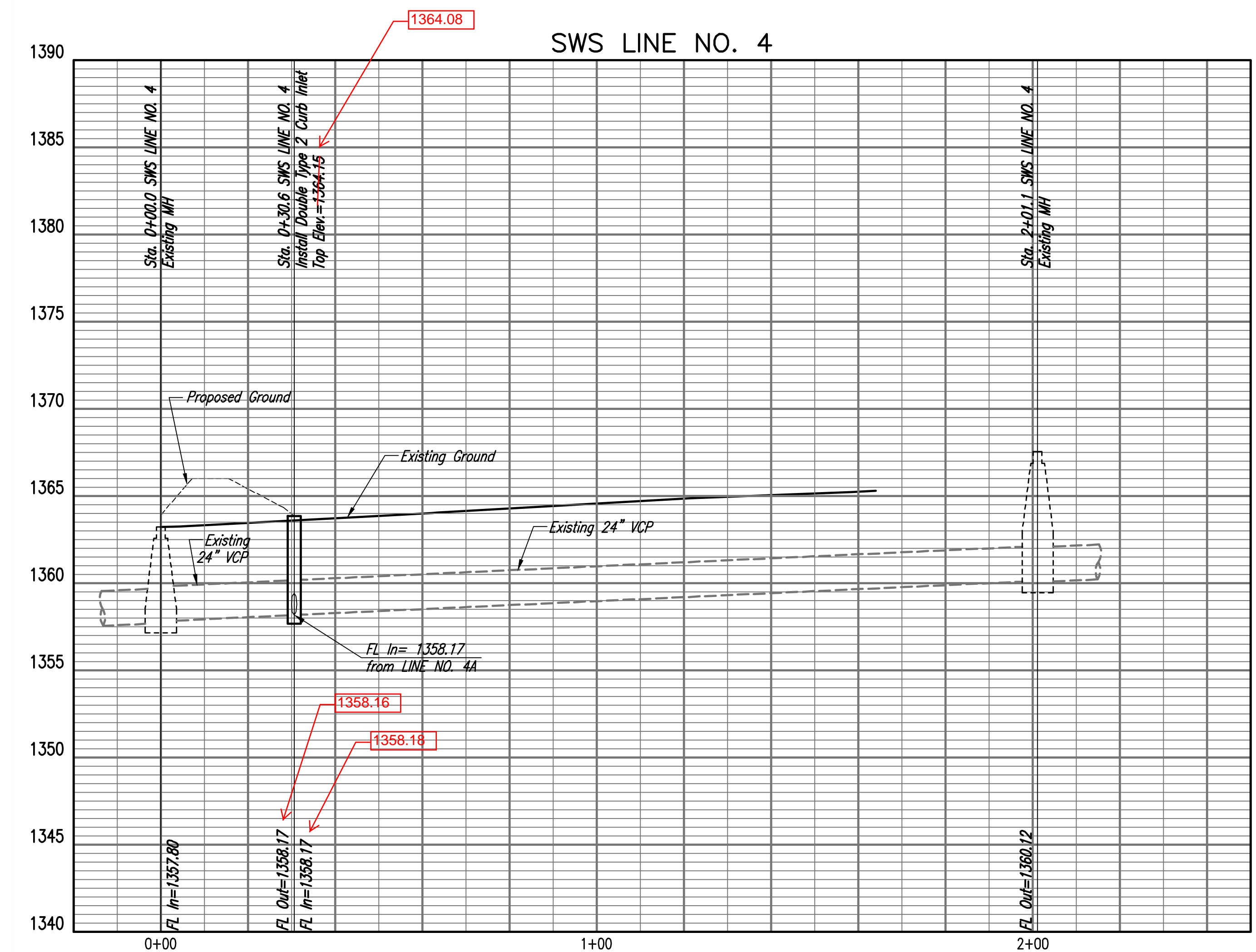
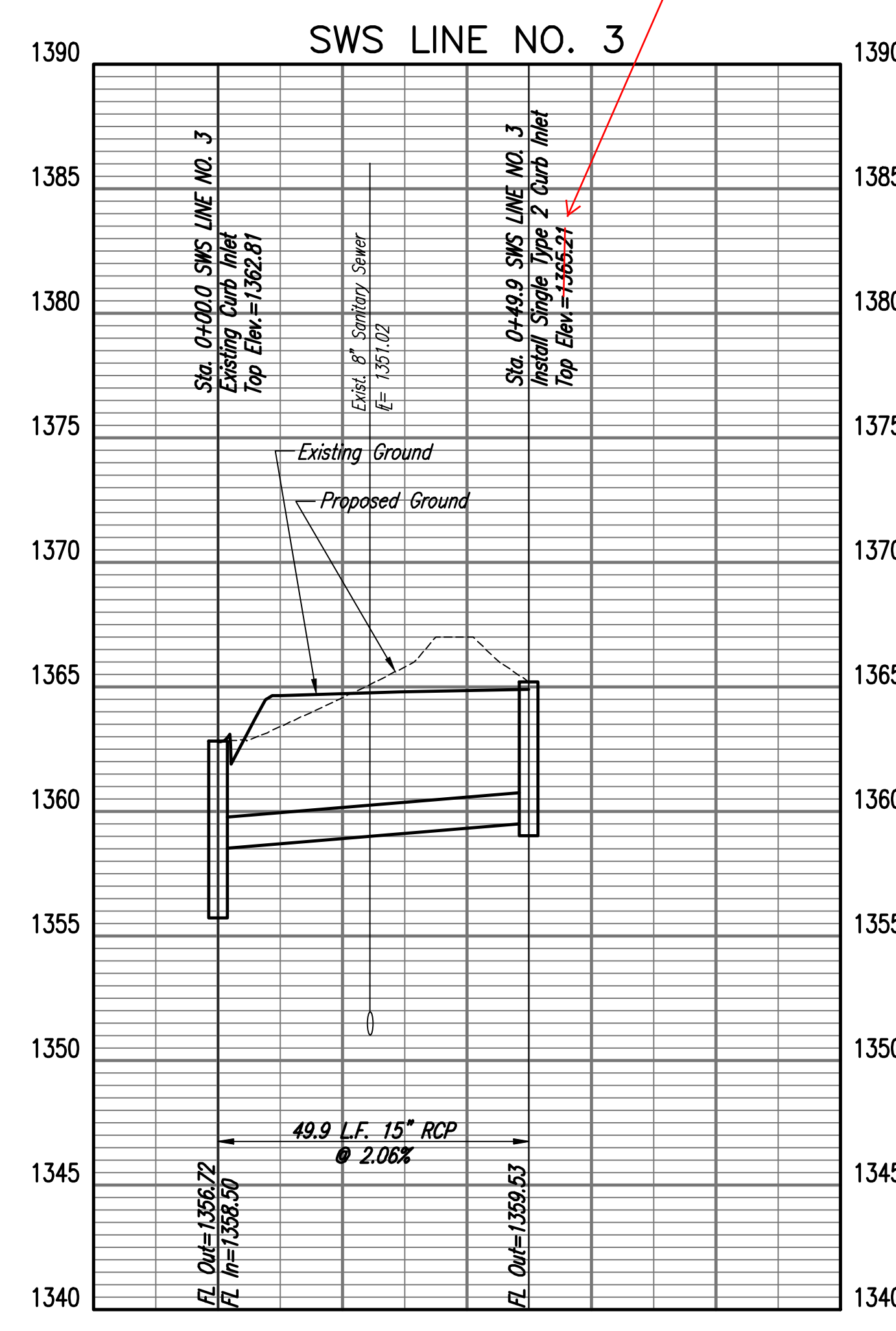
(316)264-0242



MABCD REVIEWER:



Date	Description
2 8/8/19	ADDENDUM 3



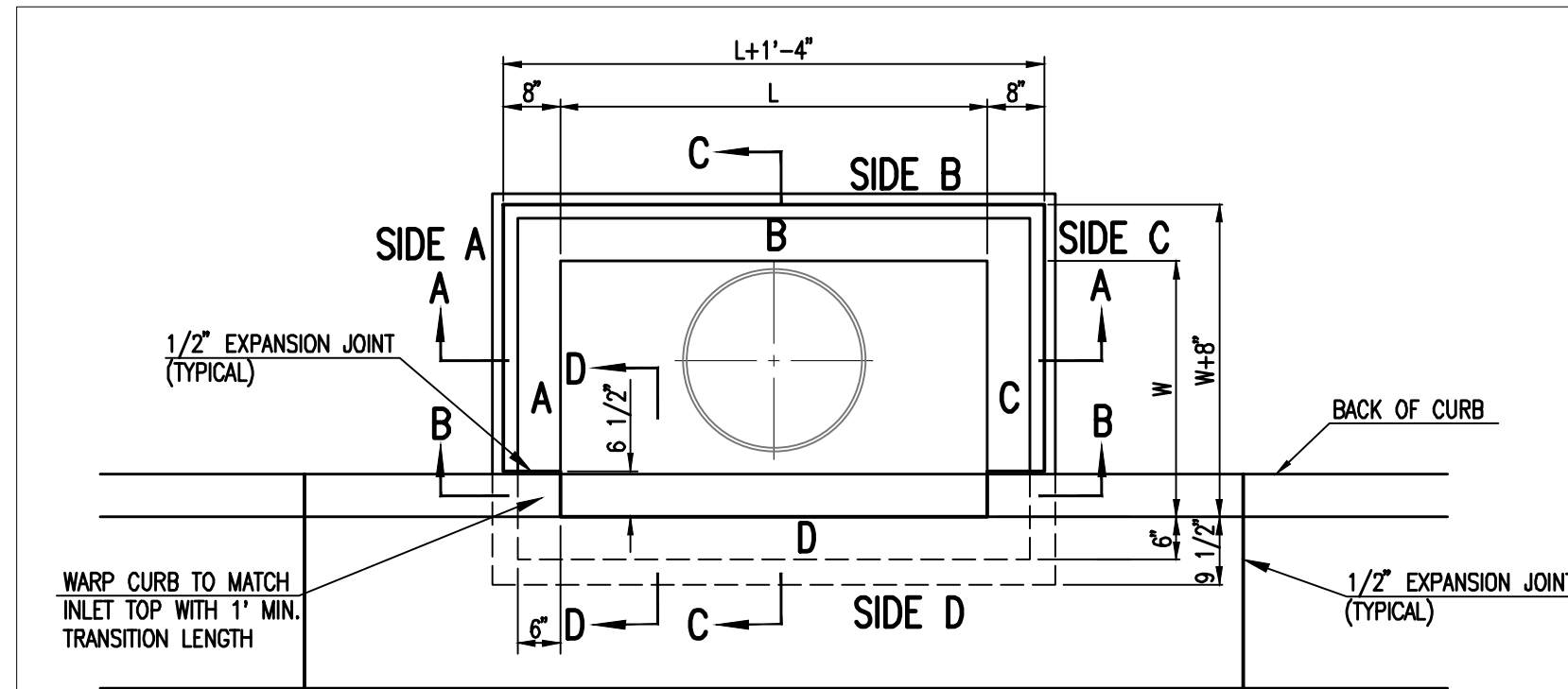
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JOB NUMBER: 198003-007
DATE: 07/25/19
DRAWN: KMH
CHECKED: NLS

BID DOCUMENTS
SWS LINE NO. 3, 4 & 4A

ENTIRE SHEET

MABCD REVIEWER:



TOP VIEW

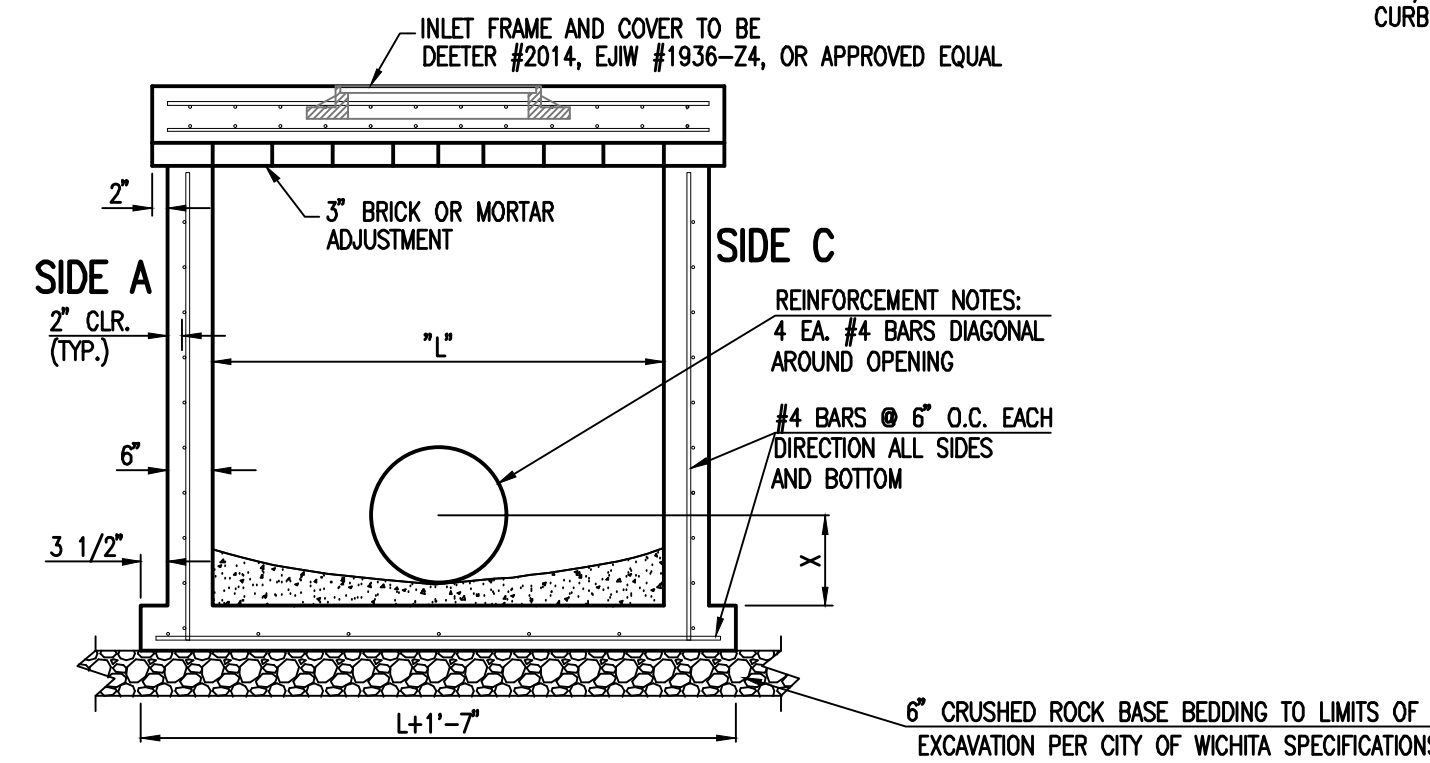
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

PRECAST CURB INLET WIDTHS			
W	PRE-CAST TOP SIZE		PIPE DIA.**
	WIDTH	LENGTH	
3'-0"	W+8"	L+1'-4"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	24" & 30"
5'-0"	W+8"	L+1'-4"	36" & 42"
6'-0"	W+8"	L+1'-4"	48" & 54"
7'-0"	W+8"	L+1'-4"	60" & 66"

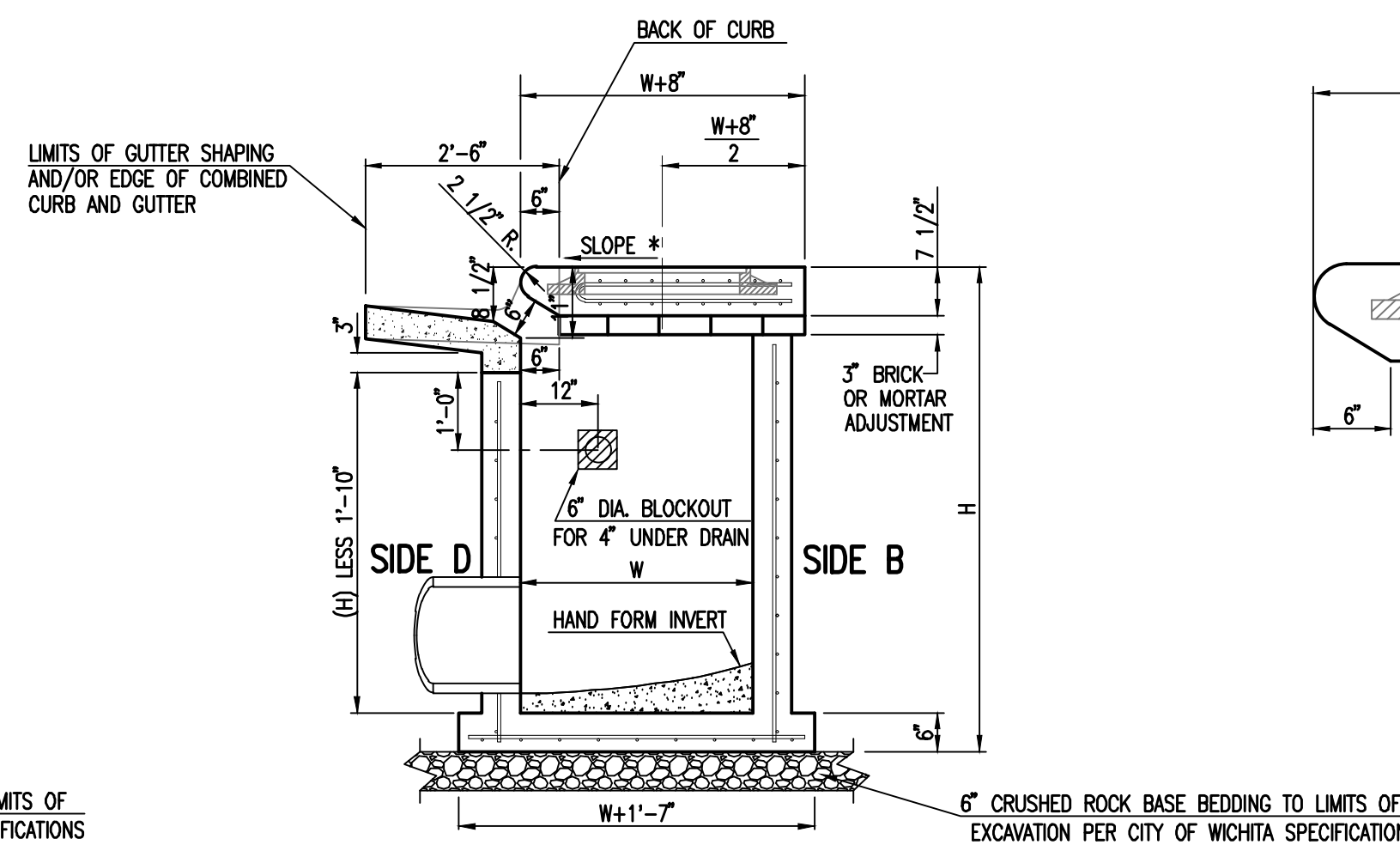
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

- CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
- 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.
- THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
- INLET FRAME AND COVER TO BE DEETER #2014, EJM #1936 24, OR APPROVED EQUAL, SEE SW-303.
- 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.

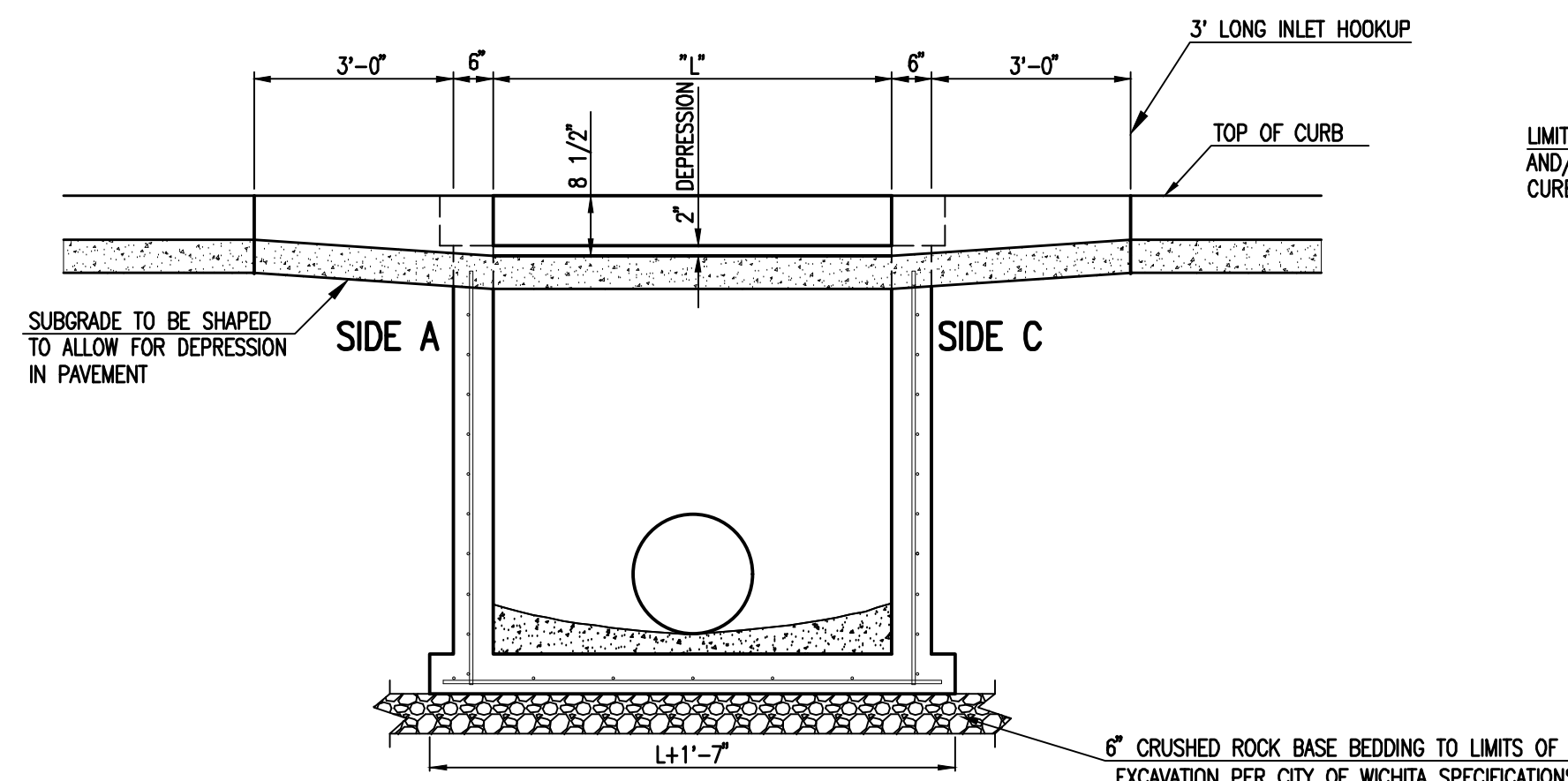


SECTION "A-A"

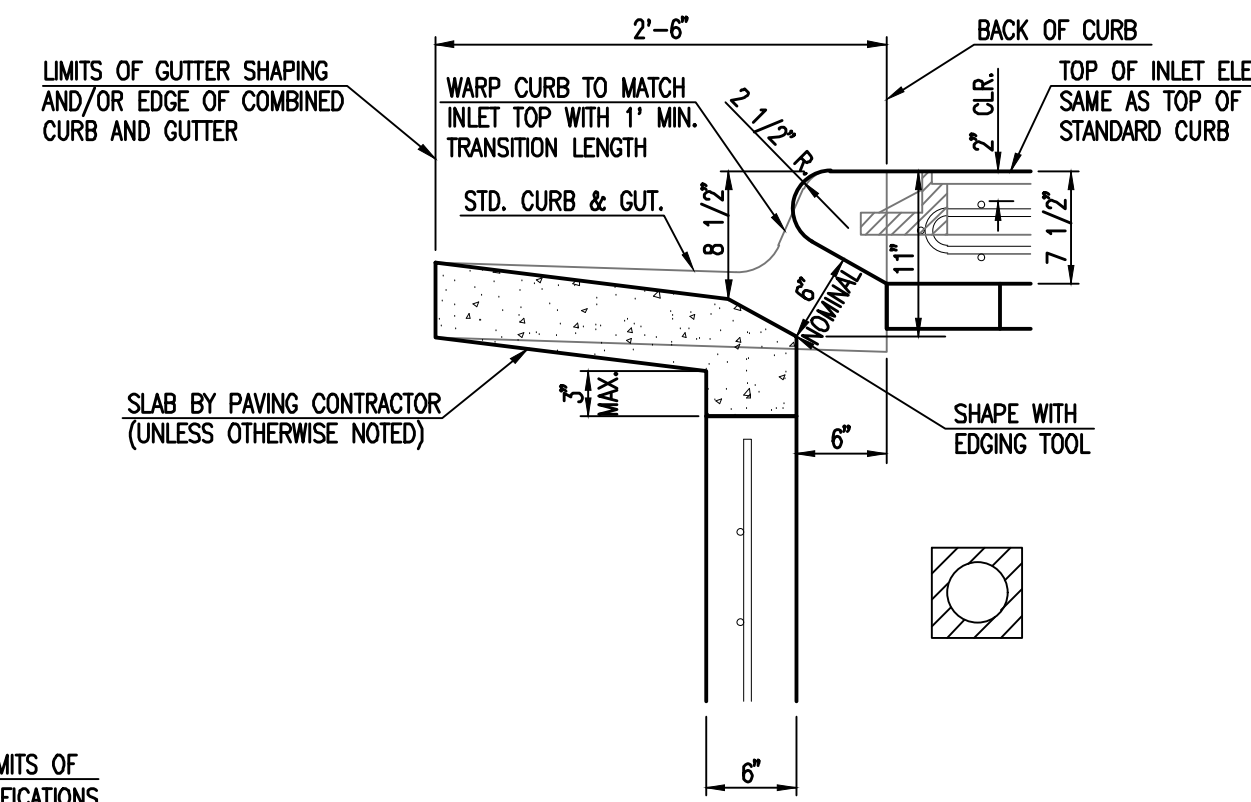


SECTION "C-C"

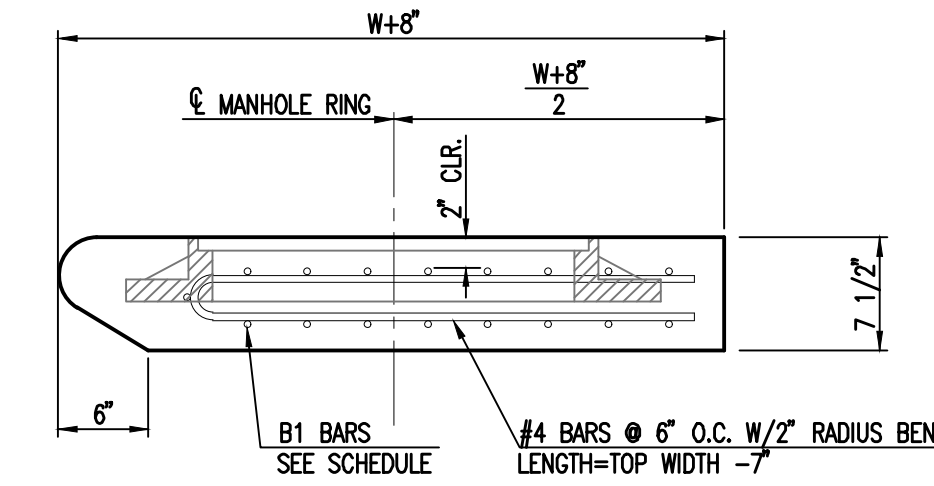
NOTES:
* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



SECTION "B-B"



SECTION "D-D"



REVISED: MARCH 2015

STANDARD TYPE 1 CURB INLET
5'-0" OR 10'-0" OPENING

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 599 PPD	DCA NUMBER (133119)	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET CU-501

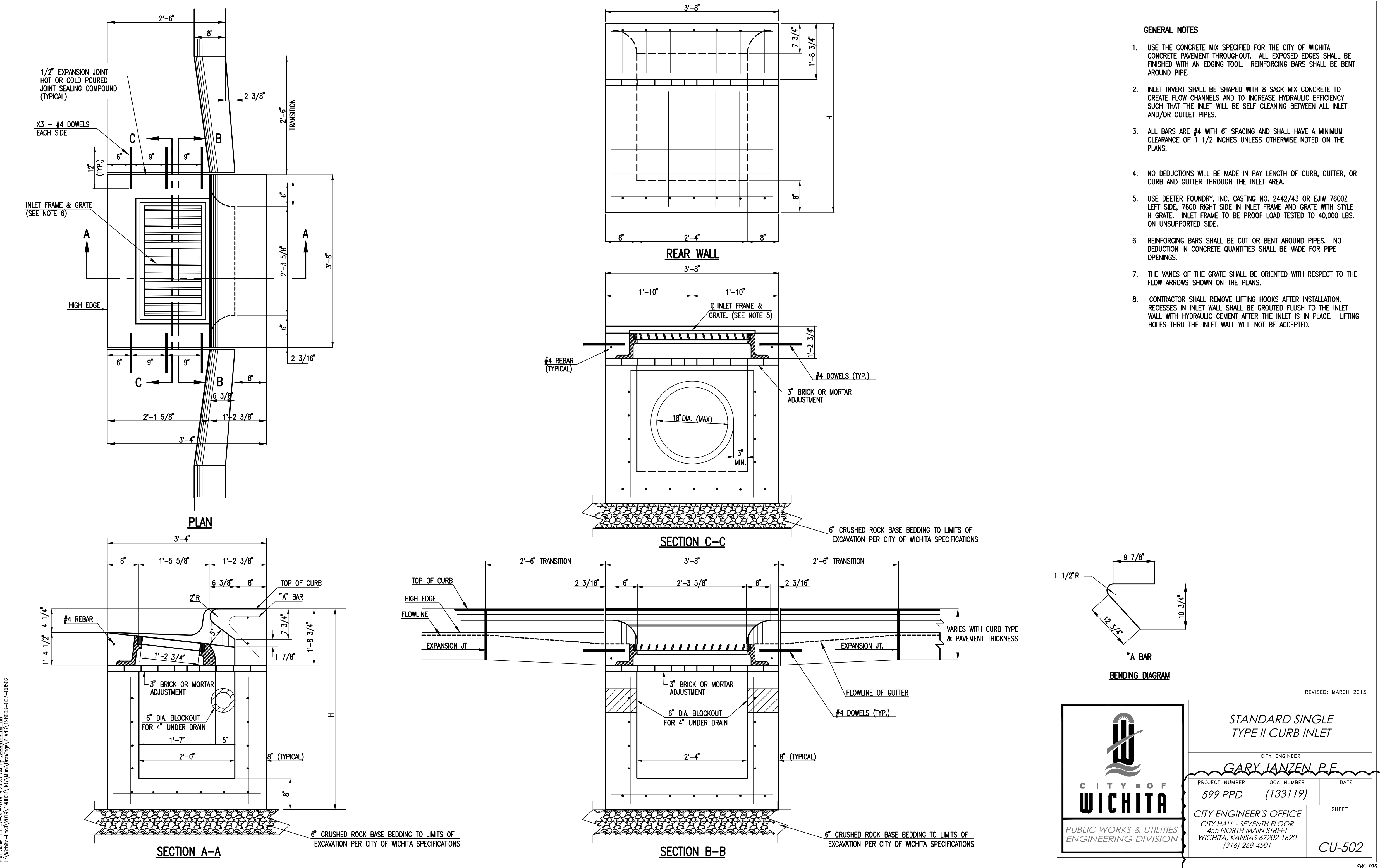
Date	Description
08/01/19	Addendum #1

JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS
STD. TYPE 1 CURB INLET DETAILS

Save: 07-30-2019 9:22:45 AM by: S40
Plot Scale: 1:1 07-30-2019 9:26:17 AM by: DANAY MINNIS
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MABCD REVIEWER:



- 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 EJM 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.

Date	Description
08/01/19	Addendum #1

TEXTRON AVIATION
 EAST CAMPUS - WEBB RD.
 LANDSCAPING IMPROVEMENTS
 (CENTRAL AVE TO TRUCK ENTRANCE)
 WICHITA, KS

REVISD: MARCH 2015

CITY OF WICHITA
 PUBLIC WORKS & UTILITIES
 ENGINEERING DIVISION

STANDARD SINGLE TYPE II CURB INLET

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 599 PPD	DCA NUMBER (133119)	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET CU-502

SW-105

JOB NUMBER: 198003-007
 DATE: 07/25/19
 DRAWN: KMH
 CHECKED: NLS

BID DOCUMENTS
 STD. SINGLE TYPE 2 CURB INLET

CU-502
 EAST CAMPUS - TXTAV
 CENTRAL AVE. & WEBB RD.

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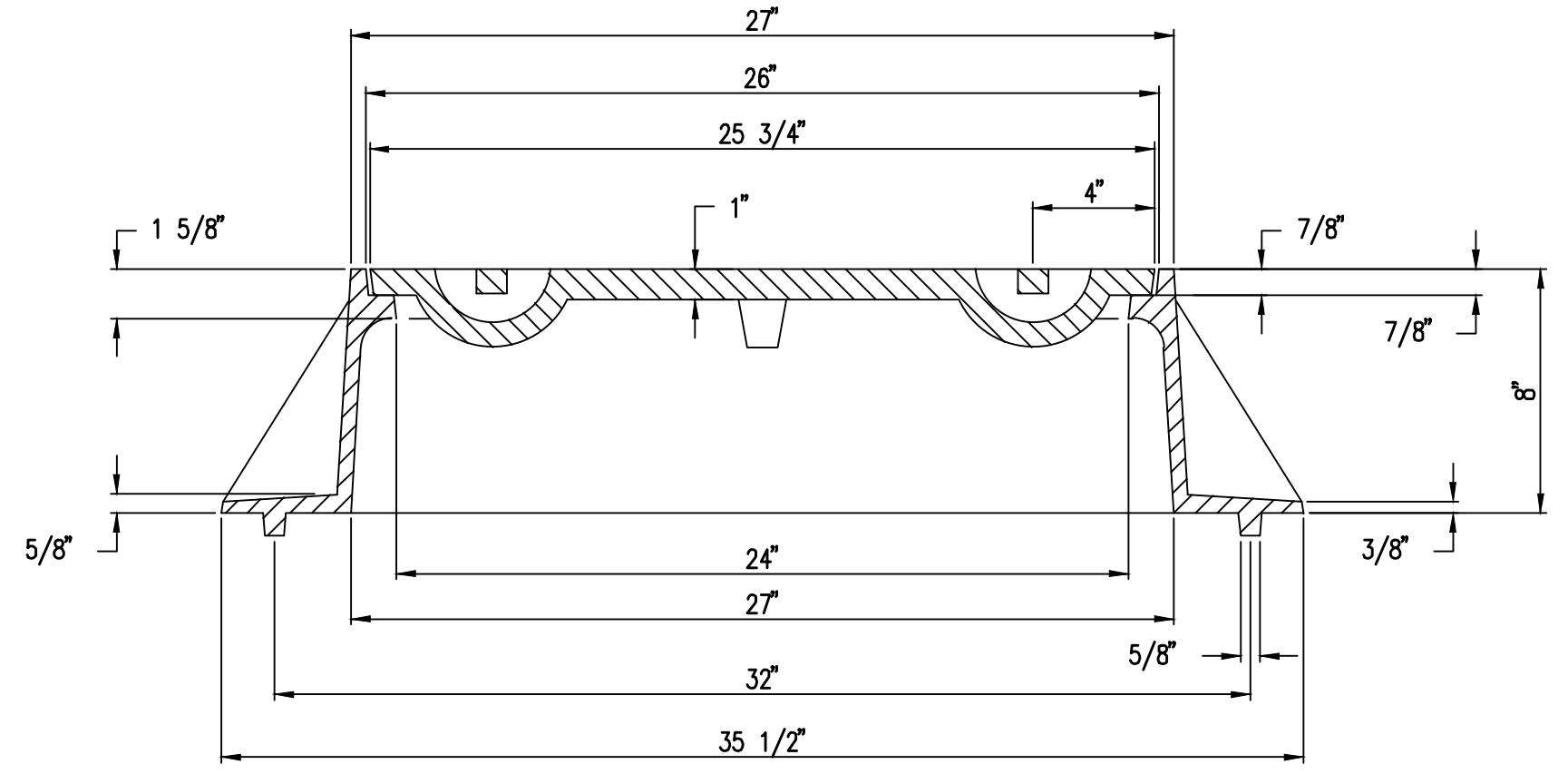
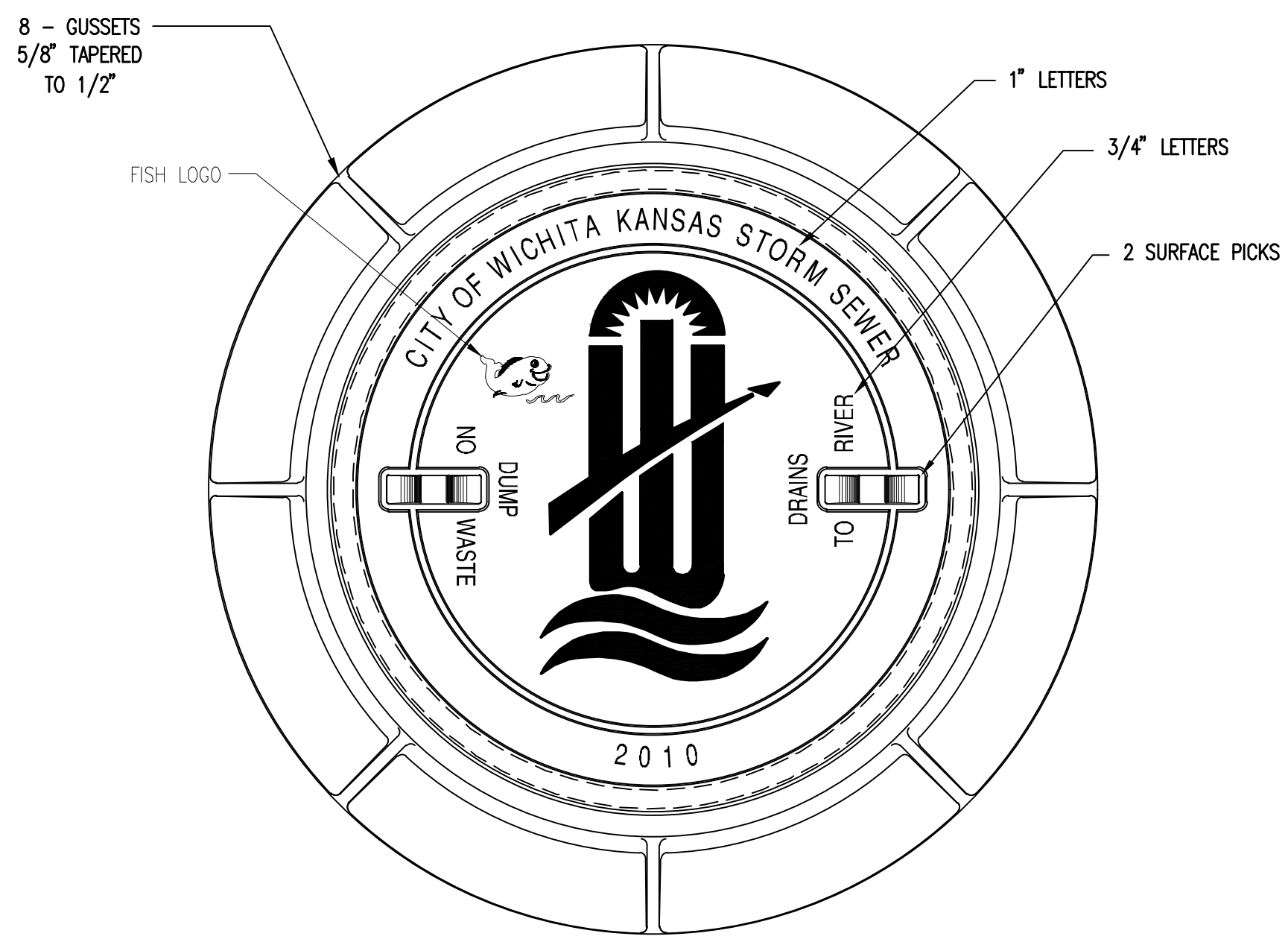
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TEXTRON AVIATION
 EAST CAMPUS - WEBB RD.
 LANDSCAPING IMPROVEMENTS
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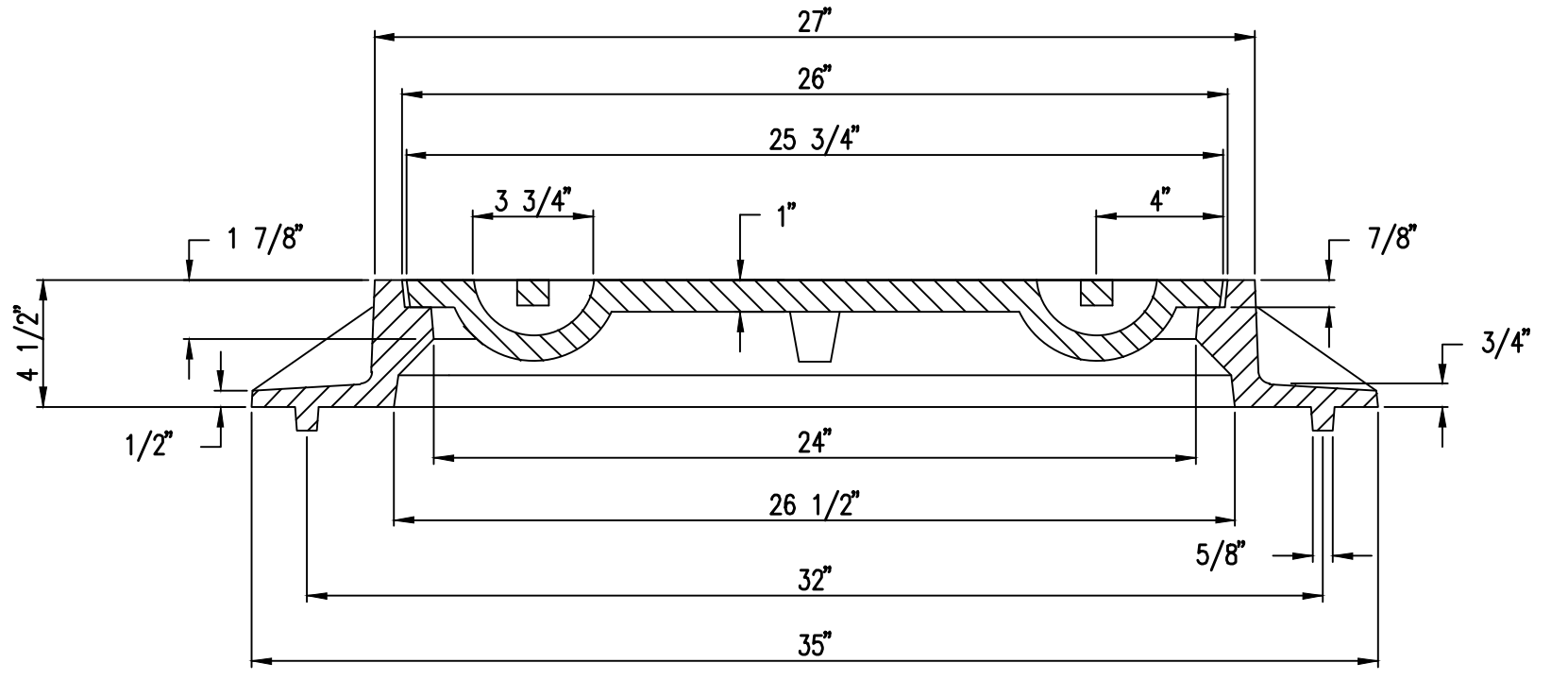
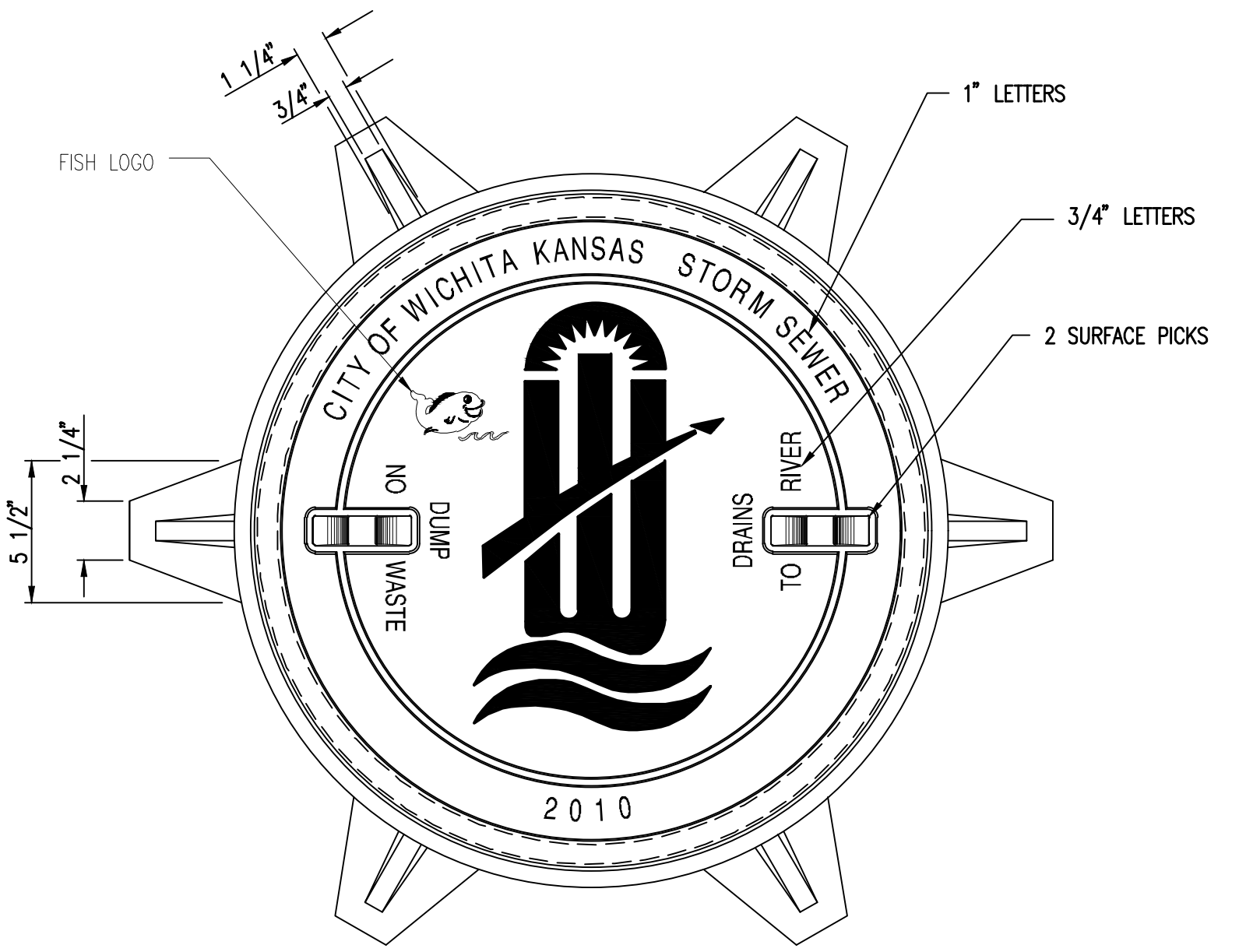
BID DOCUMENTS
 MANHOLE FRAME AND COVER

CU-503
 EAST CAMPUS - TXTAV
 CENTRAL AVE. & WEBB RD.



MANHOLE FRAME
 DEETER #1261 OR EJIW #1936-Z1

- NOTE:
- FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
 - COVER TO BE DEETER #1261 OR EJIW #1936A.



INLET FRAME
 DEETER #2014 OR EJIW #1936-Z4

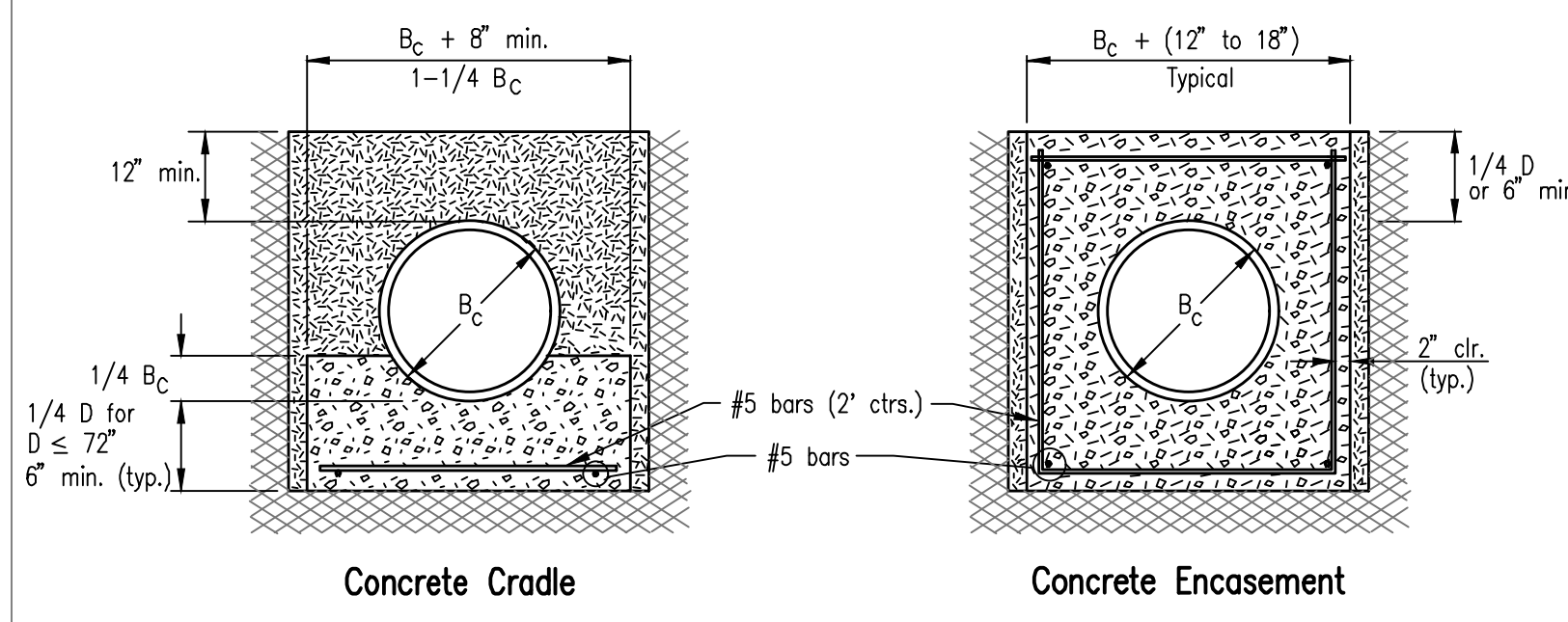
- NOTE:
- FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
 - NOT TO BE USED UNDER PAVEMENT.
 - COVER TO BE DEETER #1261 OR EJIW #1936A.

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	MANHOLE/INLET FRAME AND COVER (STORM SEWER) CITY ENGINEER GARY JANZEN, P.E.		
	PROJECT NUMBER 599 PPD	OCA NUMBER (133119)	DATE 11/2010
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501			SHEET CU-503

MABCD REVIEWER:



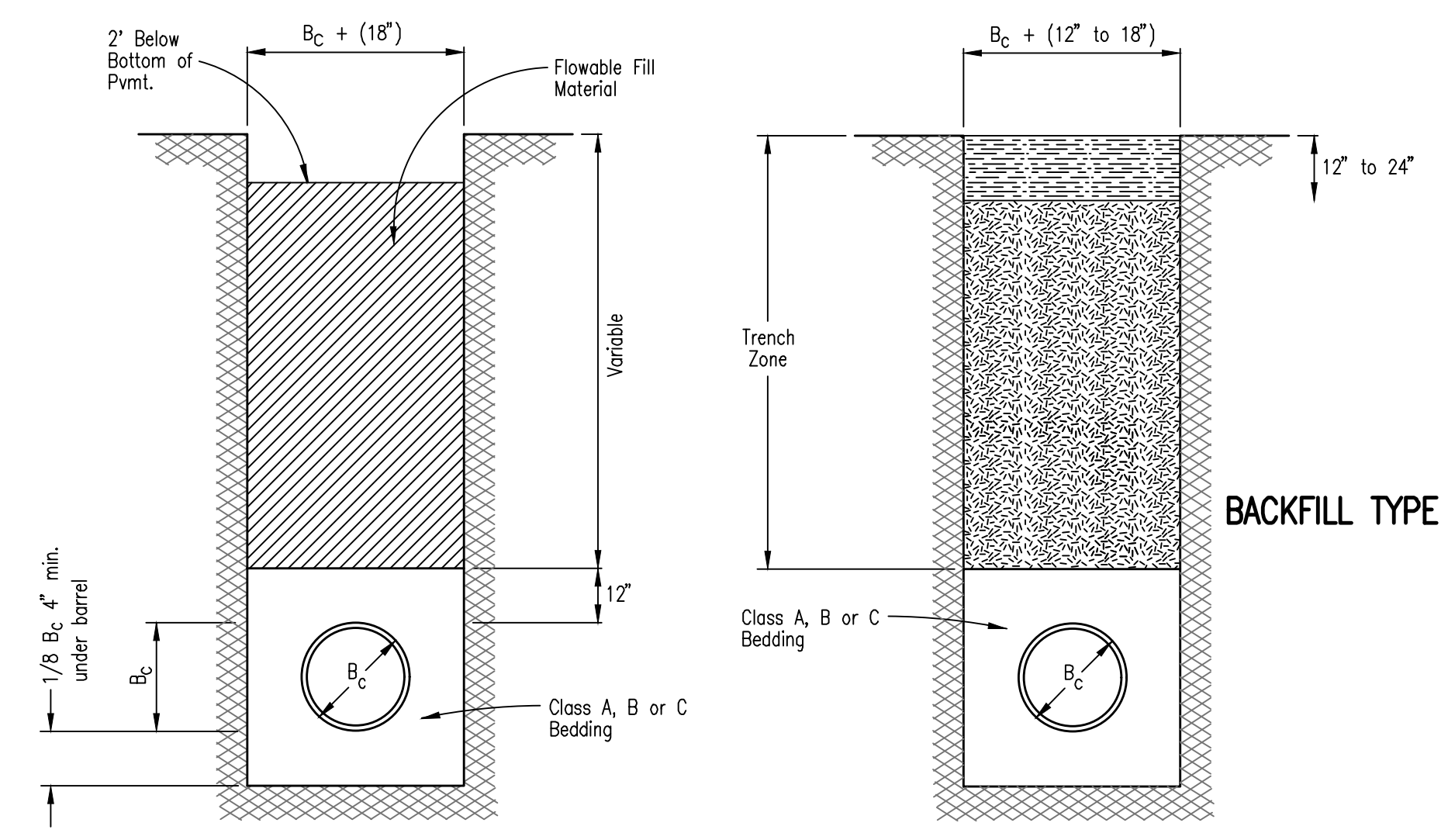
Date	Description
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CLASS A

- B_c = Outside Pipe Diameter
- H = Backfill from Top of Pipe to Existing Ground
- D = Inside Pipe Diameter
- d = Depth of Bedding Material Below Pipe
- = Granular Bedding Material or Sand-Gravel Bedding
- = Compacted Embedment
- = Concrete

D	d(min) Soil	d(min) Rock
27" & smaller	4"	6"
30" to 60"	5"	9"
66" & larger	6"	12"



BACKFILL - FLOWABLE FILL

- B_c = Outside Pipe Diameter
- = Compacted Granular Backfill
- = Uncompacted Earth Backfill
- = Compacted Earth Backfill

Compacted Granular Backfill material shall be an approved sand material free from debris, organic material and stones with 100% passing the 3/4" sieve and not more than 15% passing a No. 200 sieve; to be jetted and mechanically vibrated into place and compacted to 95% density as determined by ASTM D698.

Uncompacted Earth Backfill material may be natural soil free from large clods or stones, brush, roots more than 2 inches in diameter, debris, and junk. Flooding with water shall be provided as directed by the Engineer.

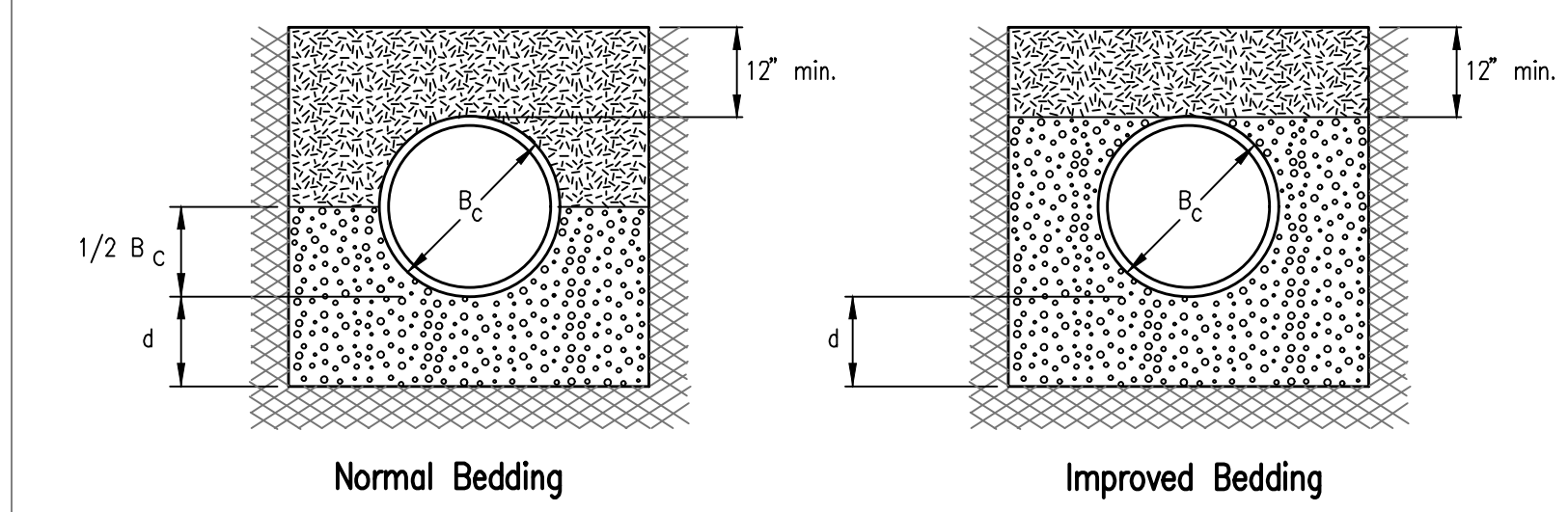
Compacted Earth Backfill shall consist of material existing prior to trenching or selected material as directed by the Engineer, and shall be compacted to 95% density as determined by ASTM D698.

Backfill: Backfill material and compaction requirements shall conform to either Type I, Type II or Type III as specified in the plans. One years maintenance will be required on all backfill.

Backfilling Through Rock: Backfilling through rock shall be performed as specified in the paragraph Backfill above, except that the Pipe Zone is increased to provide eighteen (18) inches of cover over the pipe. When approved by the Engineer the remainder of the backfill may be excavated rock provided the excavated rock has been broken up so that earth and rock will thoroughly mix and not result in voids around the larger pieces of rock. Any excess rock remaining after the trench has been backfilled shall be removed or wasted as directed by the Engineer.

Backfilling Under Pavement: Backfilling under existing or proposed pavement shall be performed as Backfill Type I or Backfill - Flowable Fill to a level of two (2) feet from the bottom of the pavement. The remainder of the trench shall be backfilled with selected material, sufficiently damp to be properly compacted in layers not exceeding six (6) inches in depth, compaction shall be performed with mechanical tampers and continued until a relative density of 100 percent of standard density, in conformance with ASTM D698 is attained.

Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".

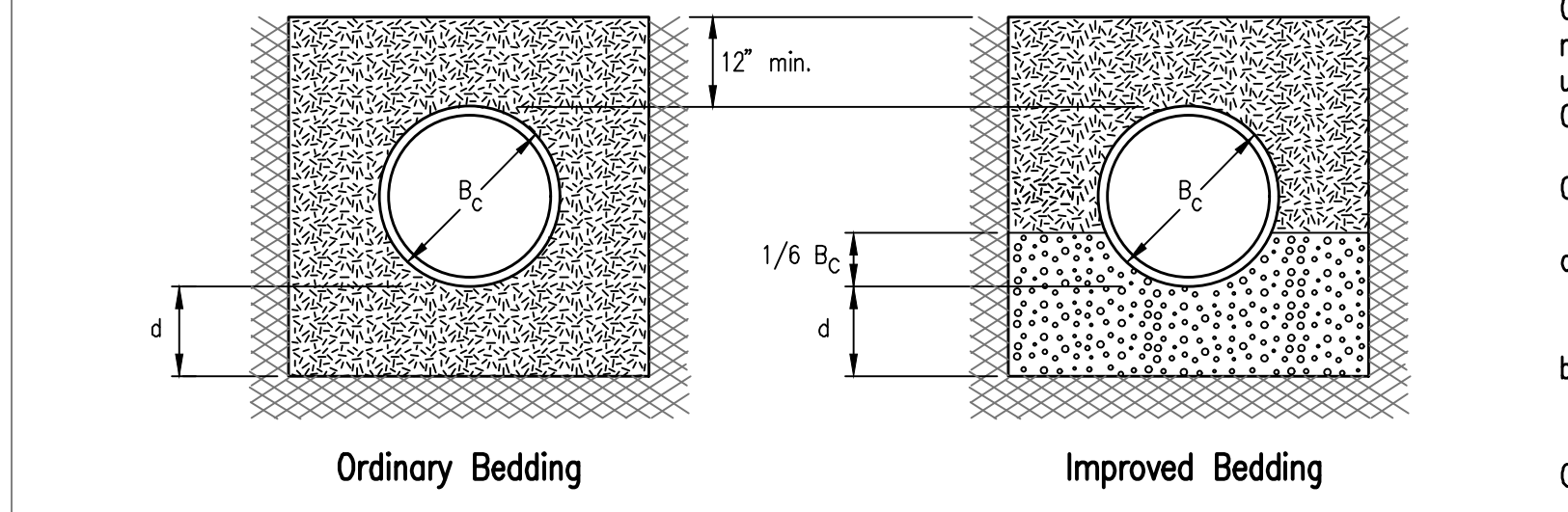


CLASS B

Granular Bedding Material shall be an approved material consisting of durable crushed rock conforming with the requirements of the latest revision of ASTM C-33 Size No. 67 (3/4" to No. 4); to be placed in not more than 6" layers and compacted by slicing with a shovel or vibrating. Soundness, abrasion, and absorption limits shall be as required for coarse aggregates in 321313 Concrete Paving in the specifications.

Sand-Gravel Bedding Material - sand-gravel mix meeting Type UD-1 of the 2015 Kansas Standard Specifications for State Road and Bridge Construction.

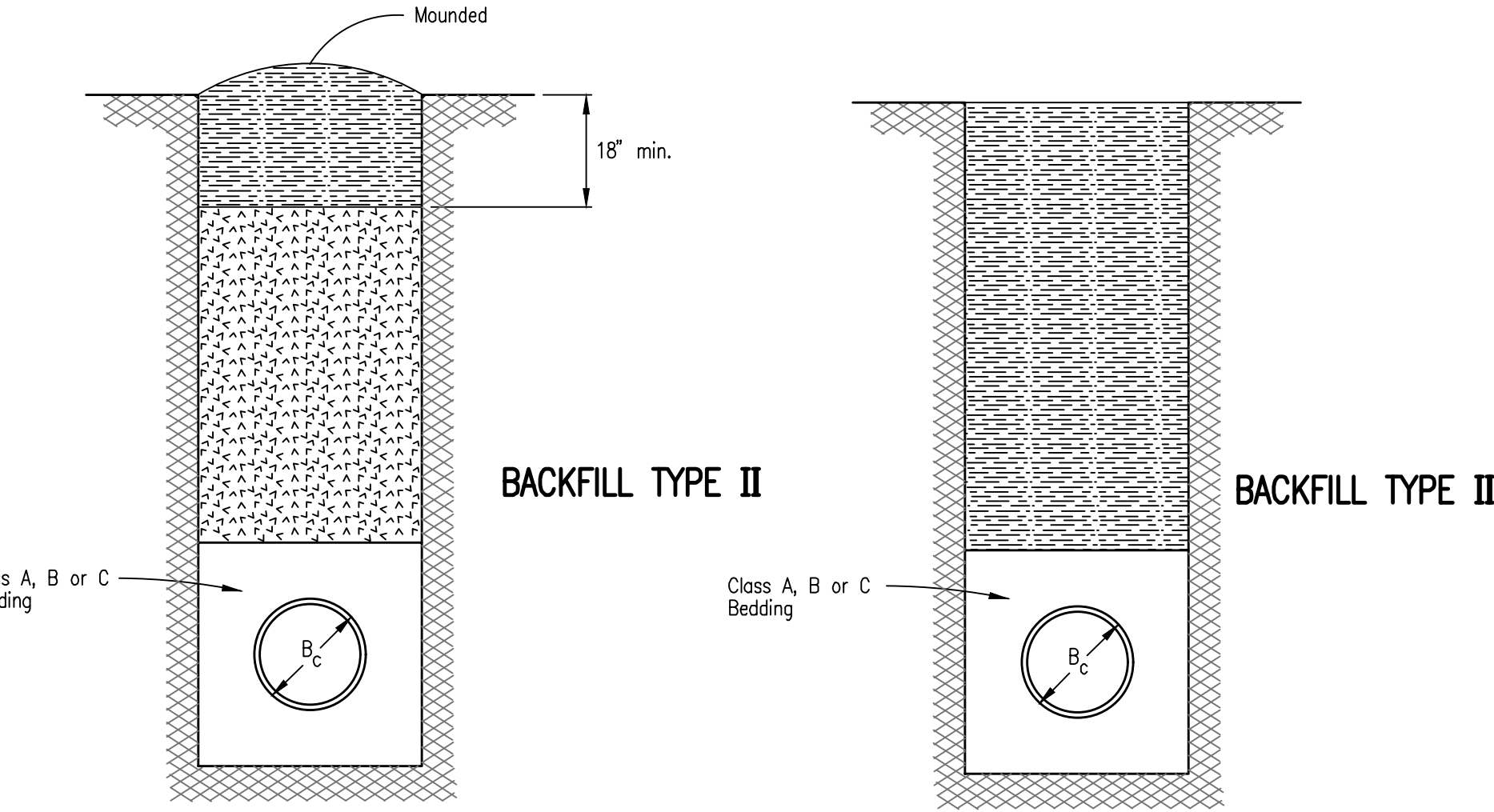
Compacted Embedment shall be an approved sand material free from debris, organic material, and stones with 100% passing the 3/4" sieve to be placed in uniform layers not more than 6" thick and compacted to 95 percent maximum density as determined by ASTM D698. Granular Bedding Material may be substituted for all or part of Compacted Embedment Materials.



CLASS C

Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

- Class B Bedding shall be used for all flexible pipe.
- a. Class B Normal Bedding shall be used for PVC Pipe unless wet conditions are encountered.
 - b. Class B Improved Bedding shall be used for other flexible pipe, and for PVC pipe in wet conditions.
- Class C Bedding shall be used for all rigid pipe.
- a. Class C Ordinary Bedding shall be used for all rigid pipe unless wet conditions are encountered.
 - b. Class C Improved Bedding shall be used for wet conditions existing in the trench, as directed by the Engineer, at no additional cost to the Owner. The dimensions shall be equal to that required for "rock" excavation (see specifications).



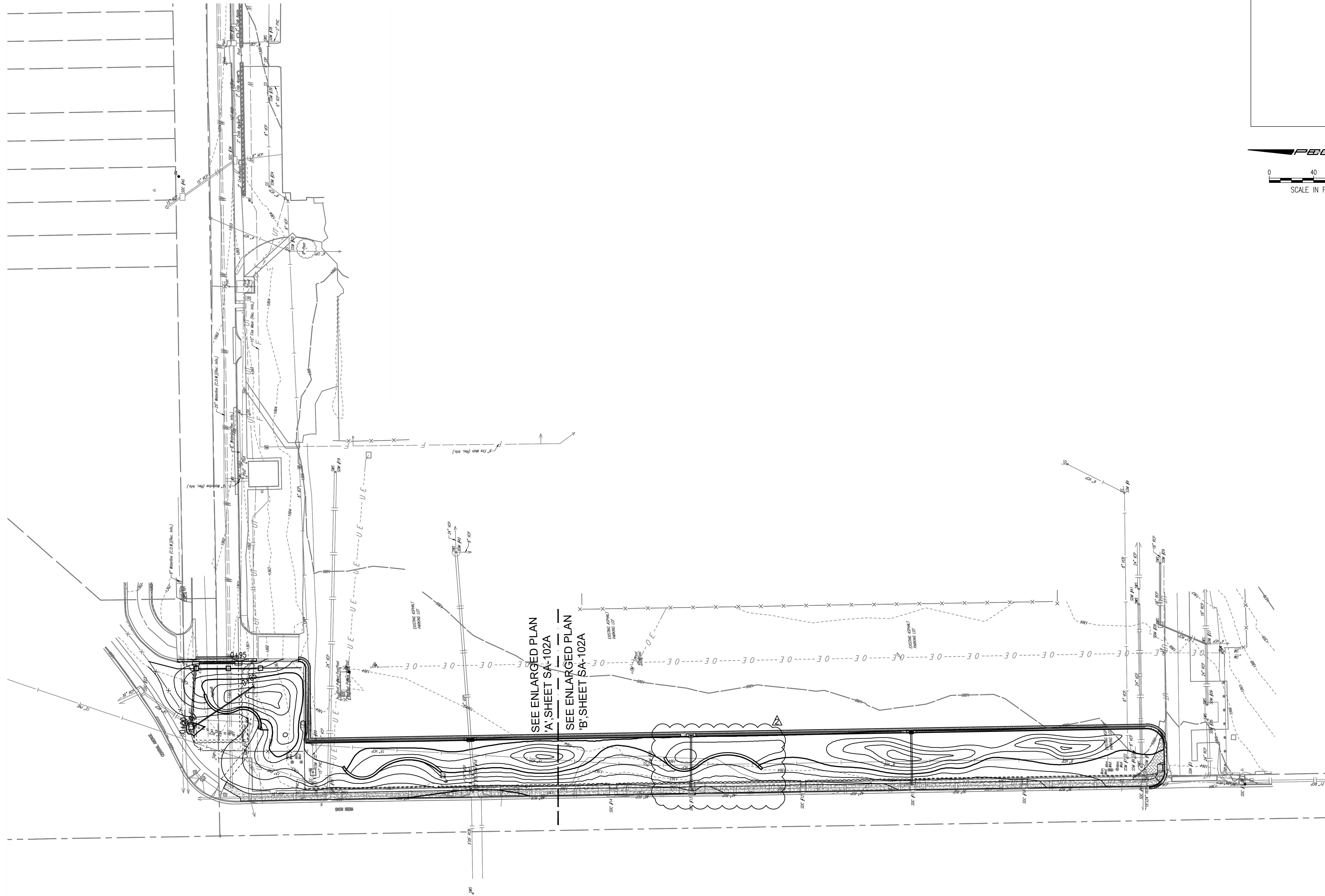
TRENCH ZONE BACKFILLING

PIPE ZONE BACKFILLING

JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS
 BEDDING AND BACKFILL
 DETAILS

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SEE ENLARGED PLAN
 'A', SHEET SA-102A

SEE ENLARGED PLAN
 'B', SHEET SA-102A

MABCD REVIEWER:

SCALE IN FEET

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 316-262-2691 www.pec1.com

Δ	Date	Description
2	8/8/19	ADDENDUM 3

TEXTRON AVIATION
 EAST CAMPUS - WEBB RD.
 LANDSCAPING IMPROVEMENTS
 (CENTRAL AVE TO TRUCK ENTRANCE)
 WICHITA, KS

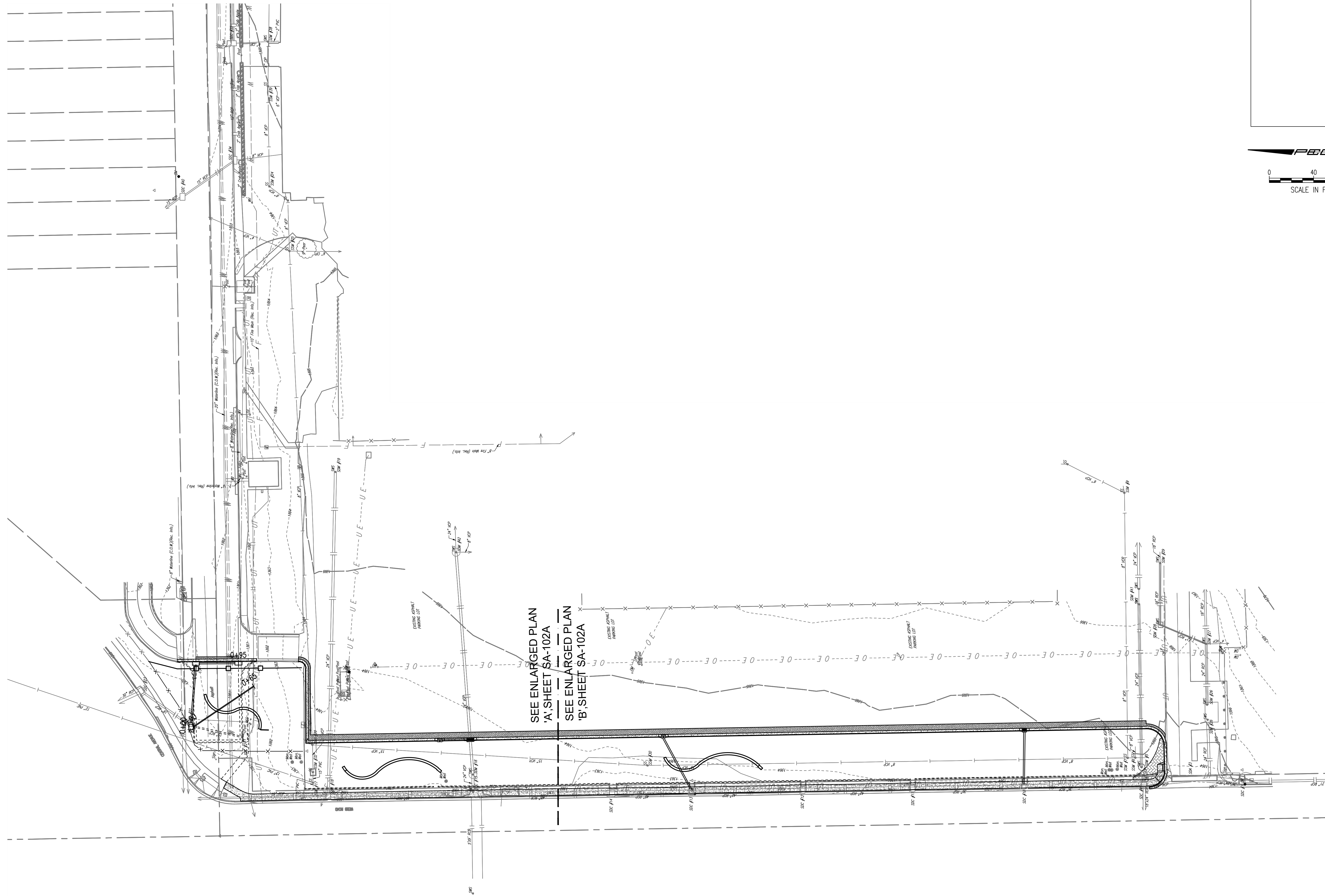
JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS

SITE ARCHITECTURAL
 OVERALL PLAN

SA-101
 EAST CAMPUS - TXTAV
 CENTRAL AVE. & WEBB RD.

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SEE ENLARGED PLAN
 'A' SHEET SA-102A
 SEE ENLARGED PLAN
 'B' SHEET SA-102A

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 812
 08/08/2019
 KANSAS
 LANDSCAPE ARCHITECT

Δ	Date	Description
2	8/8/19	ADDENDUM 3

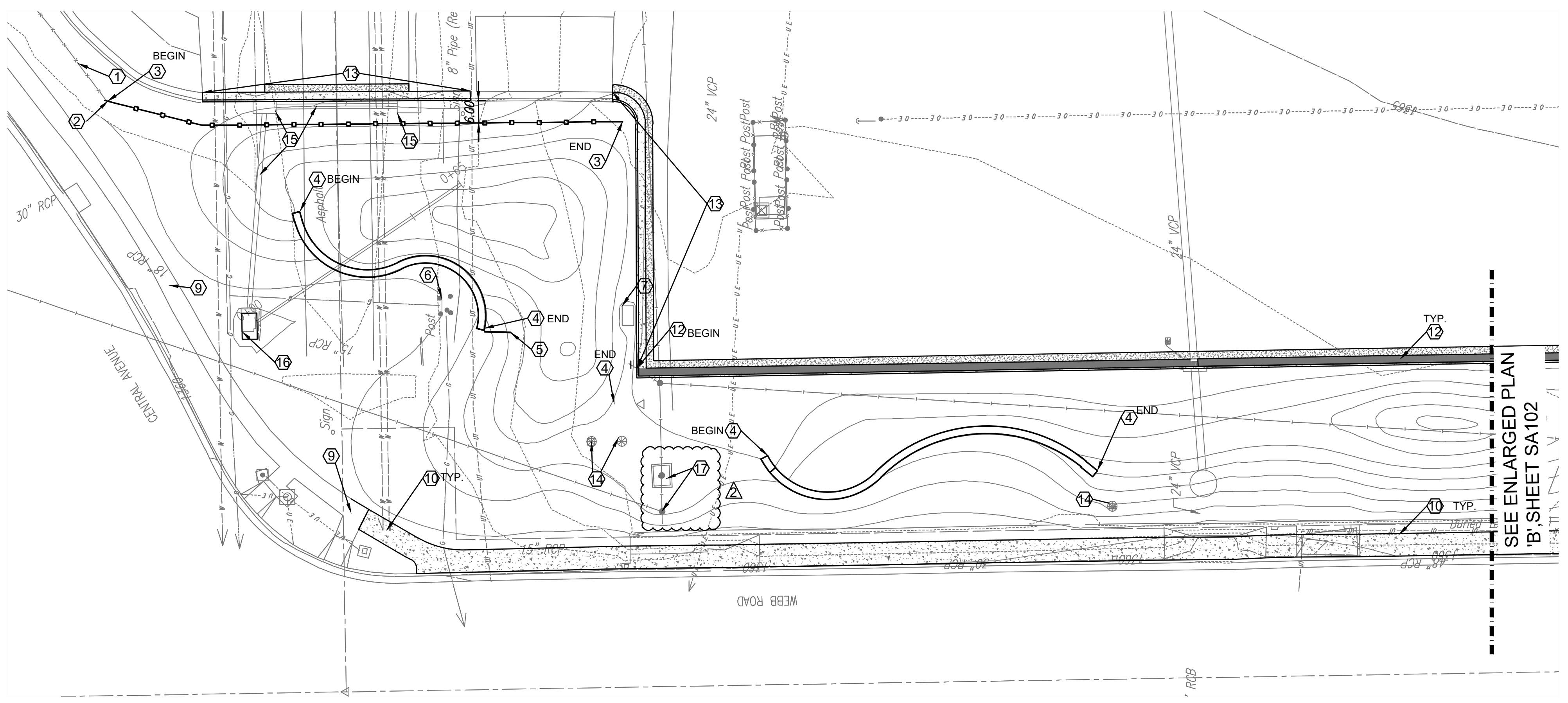
TEXTRON AVIATION
 EAST CAMPUS - WEBB RD.
 LANDSCAPING IMPROVEMENTS
 (CENTRAL AVE TO TRUCK ENTRANCE)
 WICHITA, KS

JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS
 SITE ARCHITECTURAL
 OVERALL PLAN

SA-101A
 EAST CAMPUS - TXTAV
 CENTRAL AVE. & WEBB RD.

ENTIRE SHEET



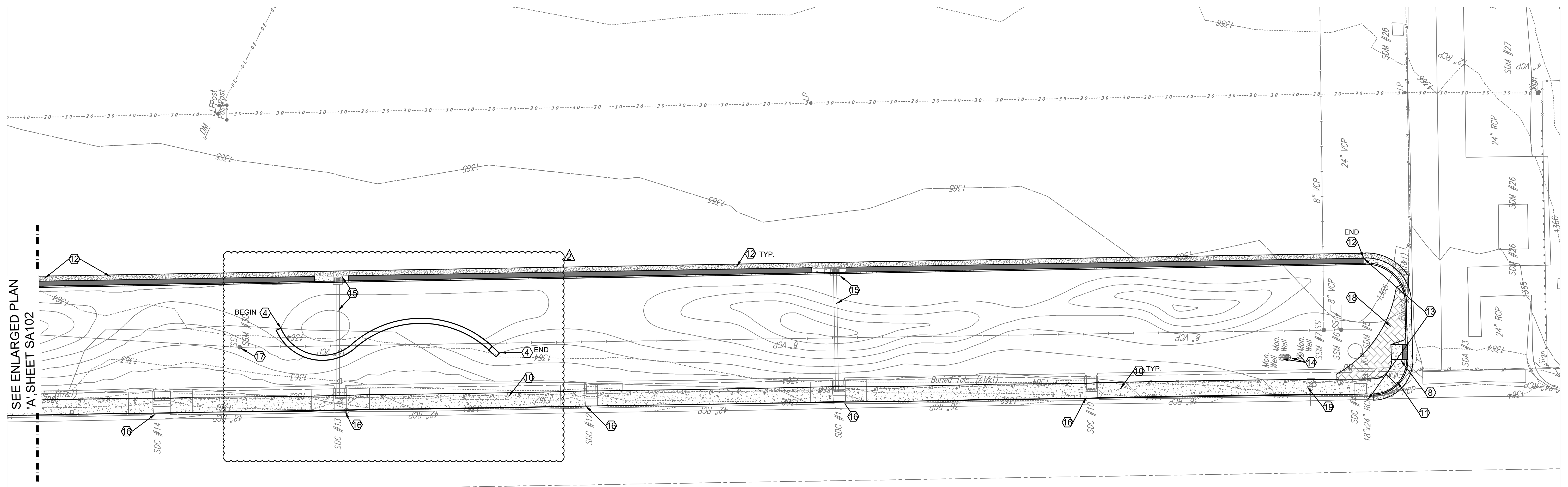
ENLARGED PLAN "A"
Scale: 1" = 20'-0"

- KEYNOTES**
- ① EXISTING ORNAMENTAL FENCE
 - ② CONNECT TO EXISTING ORNAMENTAL FENCE TO REMAIN.
 - ③ 4'-0" TALL ORNAMENTAL FENCE. SEE SHEET SA501, SEE ALSO NOTE #2.
 - ④ LIMESTONE LEDGE ROCK RETAINING WALL, SEE SHEET SA501
 - ⑤ EXISTING TEXTRON POST SIGN TO REMAIN
 - ⑥ EXISTING GAS METER TO REMAIN
 - ⑦ EXISTING ELECTRICAL PEDESTAL TO REMAIN
 - ⑧ LIGHT POLE TO BE RELOCATED
 - ⑨ EXISTING SIDEWALK TO REMAIN
 - ⑩ PROPOSED SIDEWALK, SEE PAVING PLANS
 - ⑪ PROPOSED SIDEWALK RAMP, SEE PAVING PLANS
 - ⑫ PROPOSED CURB AND GUTTER WITH INTEGRAL SLOT DRAIN, SEE PAVING PLANS
 - ⑬ PROPOSED CURB AND GUTTER, SEE PAVING PLANS
 - ⑭ EXISTING MONITORING WELL TO REMAIN
 - ⑮ PROPOSED STORM SEWER AND STRUCTURES, SEE UTILITY PLANS
 - ⑯ EXISTING STORM STRUCTURE TO BE RENOVATED, SEE UTILITY PLANS
 - ⑰ EXISTING SANITARY SEWER MANHOLE TO REMAIN
 - ⑱ STAMPED CONCRETE. REFERENCE SHEET CP-501.
 - ⑲ COMMUNICATIONS VAULT TO BE RELOCATED

- NOTES:**
1. SEE SHEET CS-101 FOR WALL, CURB AND SIDEWALK DIMENSIONING.
 2. DEMO EXISTING FENCE TO NEAREST POST. SET NEW POST ADJACENT TO EXISTING FENCE TO BEGIN PROPOSED FENCE.

MABCD REVIEWER:

SCALE IN FEET



ENLARGED PLAN "B"
Scale: 1" = 20'-0"

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08/08/2019
KANSAS
LANDSCAPE ARCHITECT

Δ	Date	Description
2	8/8/19	ADDENDUM 3

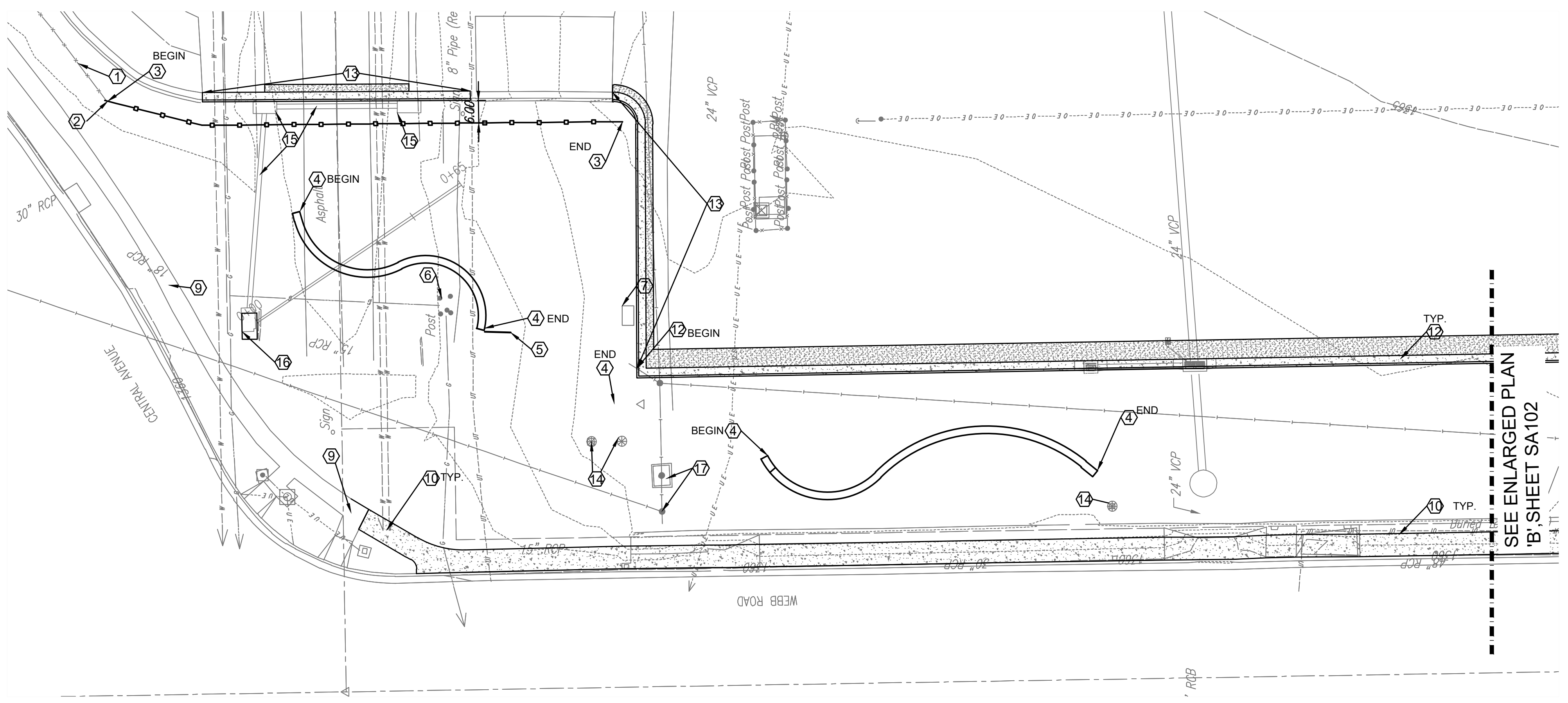
TEXTRON AVIATION
EAST CAMPUS - WEBB RD.
LANDSCAPING IMPROVEMENTS
(CENTRAL AVE TO TRUCK ENTRANCE)
WICHITA, KS

JOB NUMBER:	198003-007
DATE:	07/25/19
DRAWN:	KMH
CHECKED:	NLS

BID DOCUMENTS
SITE ARCHITECTURAL PLAN - NORTH

SA-102
EAST CAMPUS - TXTAV
CENTRAL AVE. & WEBB RD.

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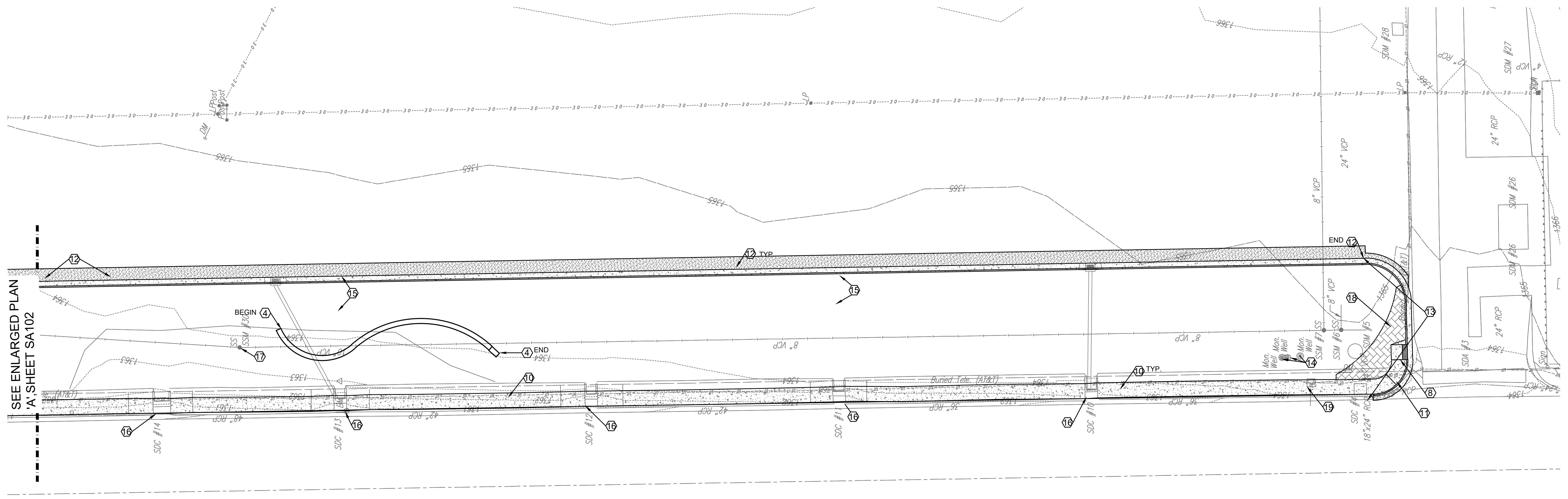
ENLARGED PLAN "A"
Scale: 1" = 20'-0"

- KEYNOTES**
- ① EXISTING ORNAMENTAL FENCE
 - ② CONNECT TO EXISTING ORNAMENTAL FENCE TO REMAIN.
 - ③ 4'-0" TALL ORNAMENTAL FENCE. SEE SHEET SA501. SEE ALSO NOTE #2.
 - ④ LIMESTONE LEDGE ROCK RETAINING WALL. SEE SHEET SA501
 - ⑤ EXISTING TEXTRON POST SIGN TO REMAIN
 - ⑥ EXISTING GAS METER TO REMAIN
 - ⑦ EXISTING ELECTRICAL PEDESTAL TO REMAIN
 - ⑧ LIGHT POLE TO BE RELOCATED
 - ⑨ EXISTING SIDEWALK TO REMAIN
 - ⑩ PROPOSED SIDEWALK. SEE PAVING PLANS
 - ⑪ PROPOSED SIDEWALK RAMP. SEE PAVING PLANS
 - ⑫ SITE ALTERNATE 3: PROPOSED TRADITIONAL CURB AND GUTTER WITH ASPHALT TRANSITION IN LIEU OF BASE BID SLOT DRAIN. SEE SHEET CG102.
 - ⑬ PROPOSED CURB AND GUTTER. SEE PAVING PLANS
 - ⑭ EXISTING MONITORING WELL TO REMAIN
 - ⑮ PROPOSED STORM SEWER AND STRUCTURES. SEE UTILITY PLANS
 - ⑯ EXISTING STORM STRUCTURE TO BE RENOVATED. SEE UTILITY PLANS
 - ⑰ EXISTING SANITARY SEWER MANHOLE TO REMAIN
 - ⑱ STAMPED CONCRETE. REFERENCE SHEET CP-501.
 - ⑲ COMMUNICATIONS VAULT TO BE RELOCATED

- NOTES:**
1. SEE SHEET CS-101 FOR WALL, CURB AND SIDEWALK DIMENSIONING.
 2. DEMO EXISTING FENCE TO NEAREST POST. SET NEW POST ADJACENT TO EXISTING FENCE TO BEGIN PROPOSED FENCE.

MABCD REVIEWER:

SCALE IN FEET



ENLARGED PLAN "B"
Scale: 1" = 20'-0"

ENTIRE SHEET

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 LANDSCAPE ARCHITECT

Date	Description
2 8/8/19	ADDENDUM 3

TEXTRON AVIATION
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BID DOCUMENTS
 SITE ARCHITECTURAL PLAN - NORTH

SA-102A
 EAST CAMPUS - TTXAV
 CENTRAL AVE. & WEBB RD.