WATER DISTRIBUTION SYSTEM

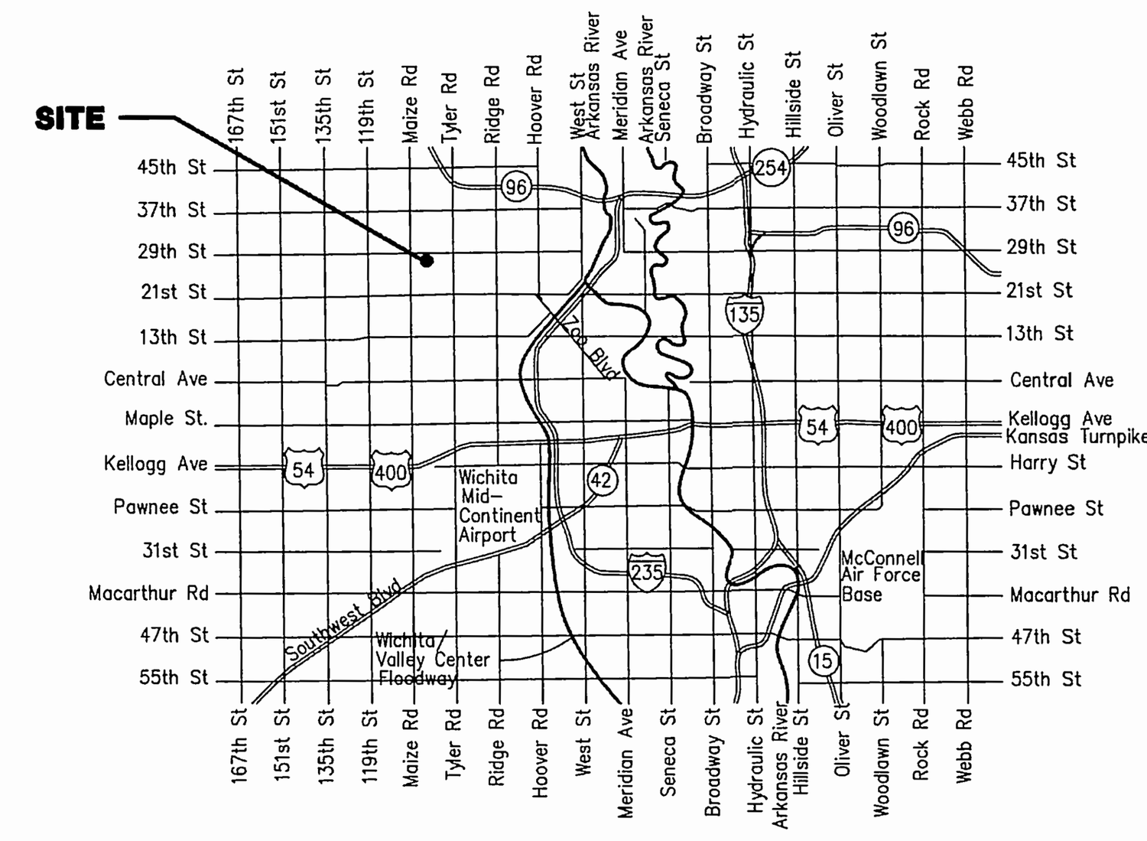
to serve

HAMPTON INN AT CADILLAC LAKE

10047 WEST 29TH STREET NORTH,
WICHITA, KANSAS 67205

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
Project Number
2028 PPW (607853)



Vicinity Map

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

2. 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

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 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.

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 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.

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 CITY 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 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.

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 CONTRACTORS 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. 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.

14. ALL APPLICABLE FEES (TAP, EQUITY, IN LIEU OF & MAIN BENEFIT) MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4555.

15. CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.

16. OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.

17. THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101, COST IS SUBSIDIARY TO PIPE INSTALLATION.

18. THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.

19. REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PREFORMED DURING NON-PEAK HOURS.

20. THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.

21. DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURES RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.

22. ANY EXTENSION GREATER THAN ONE LENGTH OF PIPE SHALL REQUIRE TESTING.

23. ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.

24. ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.

25. ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES PRIOR TO TAP BEING MADE. UNLESS NOTED ON PLANS.

26. 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.

27. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

28. WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 316-268-4441.

29. ALL APPROVED EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER. STOCKPILE LOCATIONS SHALL BE AS DIRECTED BY THE OWNER AND IN ACCORDANCE WITH GENERAL NOTE NO. 4 ABOVE.

30. ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION.

31. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 30 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.

32. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.

33. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

North American Specialty Deflection collars
SIP Industries MJ TRANS PACK
American Flow Control Valves
Pro-trace wire
American Darling (storz) fire hydrant
Vinylplex C-900
Star fittings

PPW SHEET INDEX

KEY MAP

SEE SHEET C3.02

HORIZONTAL CONTROL

SEE SHEET C3.02

BENCHMARKS

SEE SHEET C3.02

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION
& BY WICHITA FIRE DEPARTMENT

Engineering 12/21/2016
Utilities 12-21-16
Fire Dept. 12/20/16

NOTE TO CONTRACTORS

Public Property:

Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer Licensed 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 City Engineering. All Construction and Materials shall comply with the City or Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's Office) or on the City's Website.

Private Property:

Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department. Inspection of the fire protection line is to be provided by a licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

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

DECEMBER 2016

AS BUILTS

Contractor:	Project Inspector:
Ewertz Excavation	Larry Gann
5/24/2017	KEMILLER ENGINEERING P.A. 117 E. Lewis, Wichita, KS 67202 (316)264-0242

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

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

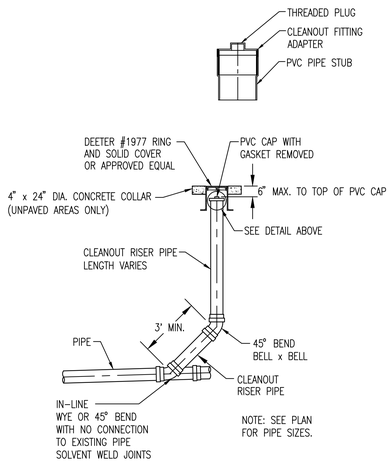
LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

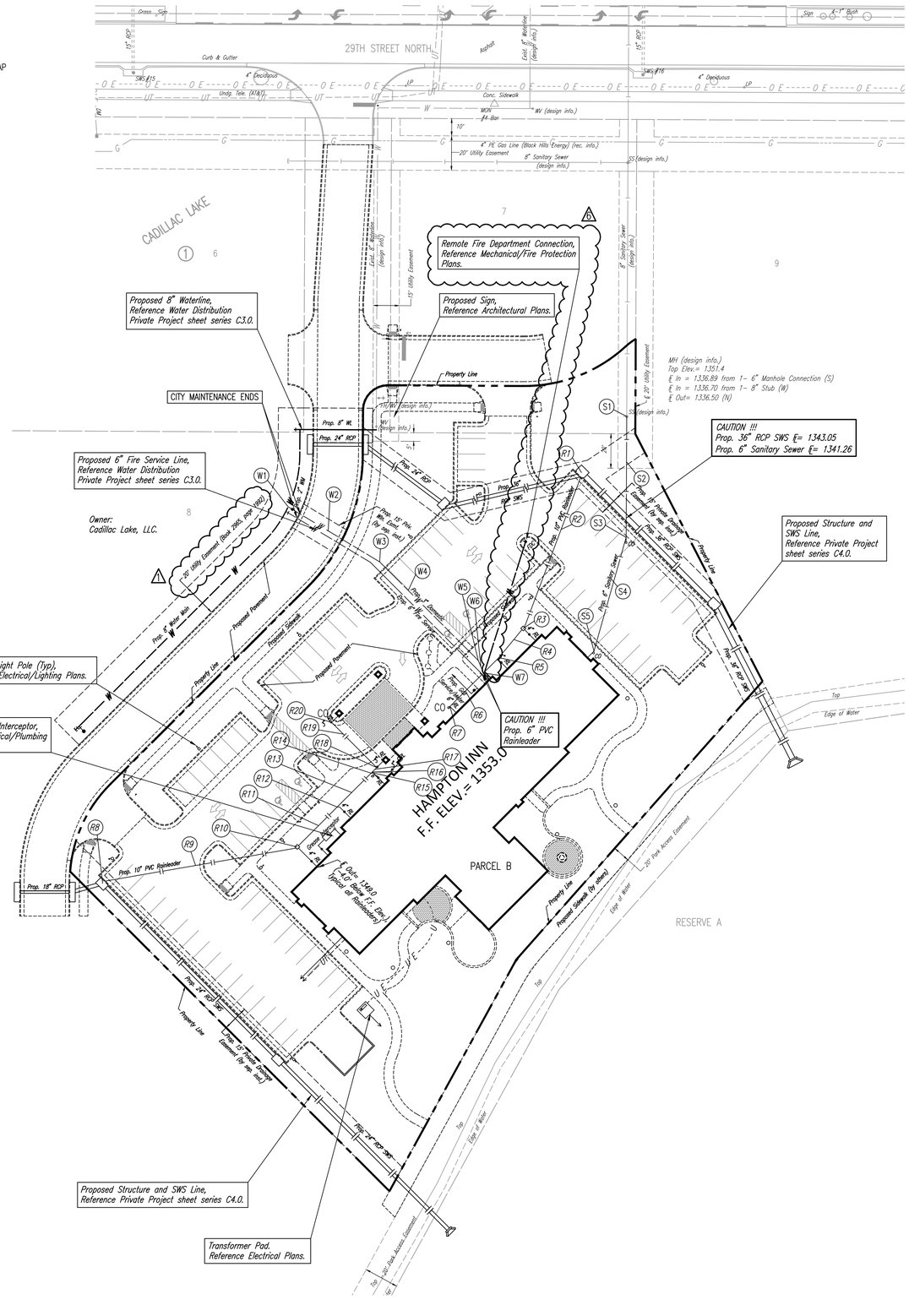
PROJECT NUMBER:
15433

SHEET TITLE:
PPW TITLE SHEET

SHEET NUMBER:
C3.01



CLEANOUT ASSEMBLY DETAIL



DOMESTIC SERVICE LINE

(W1) N: 9,975.6208, E: 6,169.0877
2" Service Outlet with 2" Meter
1– 3" x 2" Reducer
Ref. WL 1, Sta. 0+90.03,
Sheet C3.03.

(W2) 61.82'– 3" PVC Pipe

(W3) N: 9,943.7524, E: 6,222.0657
1– 3" Cl CL MJ 11 1/4° Bend
Defl.= 13°59'08"

(W4) 80.77'– 3" PVC Pipe

(W5) N: 9,886.6255, E: 6,279.1643
1– 3" Cl CL MJ 22 1/2° Bend
Defl.= 23°50'00"

(W6) 7.84'– 3" DI CL Pipe

(W7) N: 9,879.3821, E: 6,282.1625
1– 3" Cl CL MJ 22 1/2° Bend
Defl.= 23°50'00"
3" Domestic Water Connection.
See Mechanical/Plumbing Plans for Continuation.

SANITARY SEWER SERVICE LINE

(S1) N: 10,027.9145, E: 6,365.1229
Existing MH,
Remove Plug and Connect to 6" Stub.
℄ Out= 1336.50 (8")
℄ In= 1336.89 (6")
Adjust MH top per City of Wichita Standards,
Existing Top Elev.= 1351.4 (per design)
Proposed Top Elev.= 1352.1

(S2) 70.00'– 6" Pipe @ 1.0% (min.) Slope)

(S3) N: 9,957.9154, E: 6,364.7786
1– 6" Cleanout Assembly
(See detail, this sheet)
1– 6" 11 1/4° Bend
℄ = 1341.38

(S4) 68.5'– 6" Pipe @ 1.0% (min.) Slope)

(S5) N: 9,892.0380, E: 6,346.1480
1– 6" 45° Bend
1– 6" Cleanout Assembly
(See detail, this sheet)
Connect 6" Waste Pipe to Proposed Building Piping as required.
Reference Mechanical/Plumbing Sheets for continuation.
℄ = 1342.07

LEGEND

= PROPOSED WATERLINE
= PROPOSED SANITARY SEWER LINE
= PROPOSED STORM WATER SEWER
= PROPOSED RAINLEADER
= PROPOSED FIRE HYDRANT
= PROPOSED GAS LINE (BY OTHERS)
CO = CLEANOUT

SCALE: 1" = 30'
0 30 60

REFERENCE ELECTRICAL PLANS FOR ELECTRIC, COMMUNICATION, AND LIGHTING INSTALLATION NOTES.

UTILITY NOTES:

1. ALL ELEVATIONS SHOWN ARE SHOWN IN NAVD 88 DATUM.
2. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY–TWO (72) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL SCHEDULING, COORDINATION AND COSTS ASSOCIATED WITH ALL UTILITY SERVICES CONNECTIONS INCLUDING ALL FEES ASSOCIATED WITH THE WATER SERVICES, INCLUDING WATER METER/CONNECTION AND ANY OTHER FEES REQUIRED BY THE CITY OF WICHITA.
4. CONTRACTOR SHALL INSTALL CONDUIT FOR CABLE, TELEPHONE AND ELECTRIC SERVICE AS REQUIRED BY THE UTILITY COMPANIES. CONTRACTOR SHALL VERIFY CONDUIT SIZE AND LOCATION REQUIRED AND COORDINATE THE LOCATION AND CONDUIT INSTALLATION (IF REQUIRED) WITH THE UTILITY COMPANY PRIOR TO PAVING.
5. THE UTILITY LINE ALIGNMENTS TO THE BUILDING SHOWN ARE SUBJECT TO CHANGE BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND FEES WITH THE UTILITY COMPANY PRIOR TO BIDDING AND PAY ANY ASSOCIATED FEES.
6. VERIFY ALL REQUIREMENTS AND STANDARDS WITH THE UTILITY COMPANIES.
7. INSTALL UTILITY LINES AS INDICATED WITH FITTINGS AND BENDS AS REQUIRED.
8. REFERENCE SHEET C2.06 FOR BEDDING AND BACKFILL DETAILS. ALL TRENCHING AND BACKFILLING SHALL BE TYPE I OR III UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. COORDINATE ALL UTILITY WORK AND TRAFFIC CONTROL MEASURES WITHIN EXISTING CITY RIGHTS–OF–WAY WITH THE CITY OF WICHITA.
10. CONTACT THE ENGINEER TO RESOLVE ANY CONFLICTS PRIOR TO INSTALLATION. ANY CHANGES TO THE DRAWINGS SHALL BE MARKED ON THE PLANS AND PROVIDED TO THE OWNER FOR RECORD INFORMATION.
11. REFERENCE THE SITE ELECTRICAL PLANS FOR SITE LIGHTING CONDUIT/WIRING.
12. PVC RAIN LEADER MINIMUM PIPE SLOPES: 4" PVC= 2%, 6"= 1%. REFERENCE THE PRIVATE PROJECT DRAINAGE SHEETS C4.1–C4.09 FOR STRUCTURE TIE IN ELEVATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND ARCHITECTURAL PLANS FOR LOCATIONS OF RAIN LEADERS AND FLOWLINE ELEVATIONS EXITING THE BUILDING. THE CONTRACTOR SHALL SUBMIT A RAINL EADER SCHEMATIC TO THE ENGINEER, INCLUDING FLOWLINE ELEVATIONS, WITH THE STORM SEWER SUBMITTALS FOR REVIEW AND APPROVAL.

RAINLEADERS

(R1) N: 9,995.4193, E: 6,338.9025
SWS 1, Sta. 12+09.2
Prop. Curb Inlet
℄ In= 1347.00 (10" PVC) (E)
℄ In= 1344.12 (36" RCP) (W)
℄ Out= 1343.12 (36" RCP) (SW)
See sheet no. C4.03 for continuation.

(R2) 96.4'– 10" PVC Pipe @ 1.00% Slope (min.)

(R3) N: 9,905.1527, E: 6,305.1469
1– 2' x 2' Single Drop Inlet
Top Elev.= 1351.5
See detail, sheet no. C4.07.
℄ Out= 1347.96 (10" PVC) (NE)
℄ In= ~~1347.73~~ (8" PVC) (SW) **1347.98**
℄ In= ~~1347.49~~ (4" RL) (SE) **1348.18**
Connect 4" PVC Rainleader
to Proposed Building Piping as required.
Reference Mechanical for continuation.

(R4) 22.0'– 8" PVC Pipe @ 1.00% Slope (min.)

(R5) N: 9,888.2626, E: 6,291.0561
1– 8" x 4" Wye
Connect 4" PVC Rainleader (SE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= 1348.20
1– 8" x 6" Reducer (SW)

(R6) 40.0'– 6" PVC Pipe @ 1.00% Slope (min.)

(R7) N: 9,860.0029, E: 6,262.7547
1– 6" x 6" Tee
1– 6" Cleanout Assembly
(See detail, this sheet)
Connect 6" PVC Rainleader (SE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= 1348.60

(R8) N: 9,757.6004, E: 6,061.7166
SWS 2, Sta. 23+83.9
Prop. Curb Inlet
℄ In= 1347.00 (10" PVC) (E)
℄ Out= 1344.71 (24" RCP) (SE)
See sheet no. C4.04 for continuation.

(R9) 83.2– 10" PVC Pipe @ 1.00% Slope (min.)

(R10) N: 9,778.6878, E: 6,174.3490
1– 2' x 2' Single Drop Inlet
Top Elev.= 1351.5
See detail, sheet no. C4.07.
℄ Out= ~~1347.00~~ (10" PVC) (SW) **1347.83**
℄ In= ~~1347.13~~ (8" PVC) (NE) **1348.00**
℄ In= ~~1346.80~~ (4" RL) (SE) **1348.33**
Connect 4" PVC Rainleader (SE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.

(R11) 32.7'– 8" PVC Pipe @ 1.00% Slope (min.)

(R12) N: 9,801.7790, E: 6,197.4742
1– 8" x 4" Wye
Connect 4" PVC Rainleader (SE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= ~~1348.20~~ **1348.33**
1– 8" x 6" Reducer (NE)

(R13) 27.8'– 6" PVC Pipe @ 1.00% Slope (min.)

(R14) N: 9,821.4142, E: 6,217.1365
1– 6" x 4" Wye
Connect 4" PVC Rainleader (SE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= ~~1348.40~~ **1348.61**

(R15) 1.0'– 6" PVC Pipe @ 1.00% Slope (min.)

(R16) N: 9,822.0278, E: 6,217.7529
1– 6" x 3" Wye
Connect 3" PVC Rainleader (NE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= ~~1348.40~~ **1348.62**

(R17) 2.3'– 6" PVC Pipe @ 1.00% Slope (min.)

(R18) N: 9,824.6329, E: 6,220.3618
1– 6" x 4" Tee
℄ In= 1348.47
1– 6" x 3" Reducer (NE)
Connect 3" PVC Rainleader (NE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= ~~1349.00~~ **1348.64**

(R19) 37.0'– 4" PVC Pipe @ 1.00% Slope (min.)

(R20) N: 9,850.7836, E: 6,194.2565
1– 4" x 4" Tee
1– 4" Cleanout Assembly
(See detail, this sheet)
Connect 4" PVC Rainleader (NE)
to Proposed Building Piping as required.
Reference Mechanical for continuation.
℄ In= ~~1349.00~~ **1349.00**

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2
12.21.16	CITY COMMENTS	3
3.07.17	MISC. REVISIONS	5
3.17.17	MISC. REVISIONS	6

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

DARWIN R. CRONK LICENSED 14896 KANSAS PROFESSIONAL ENGINEER

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

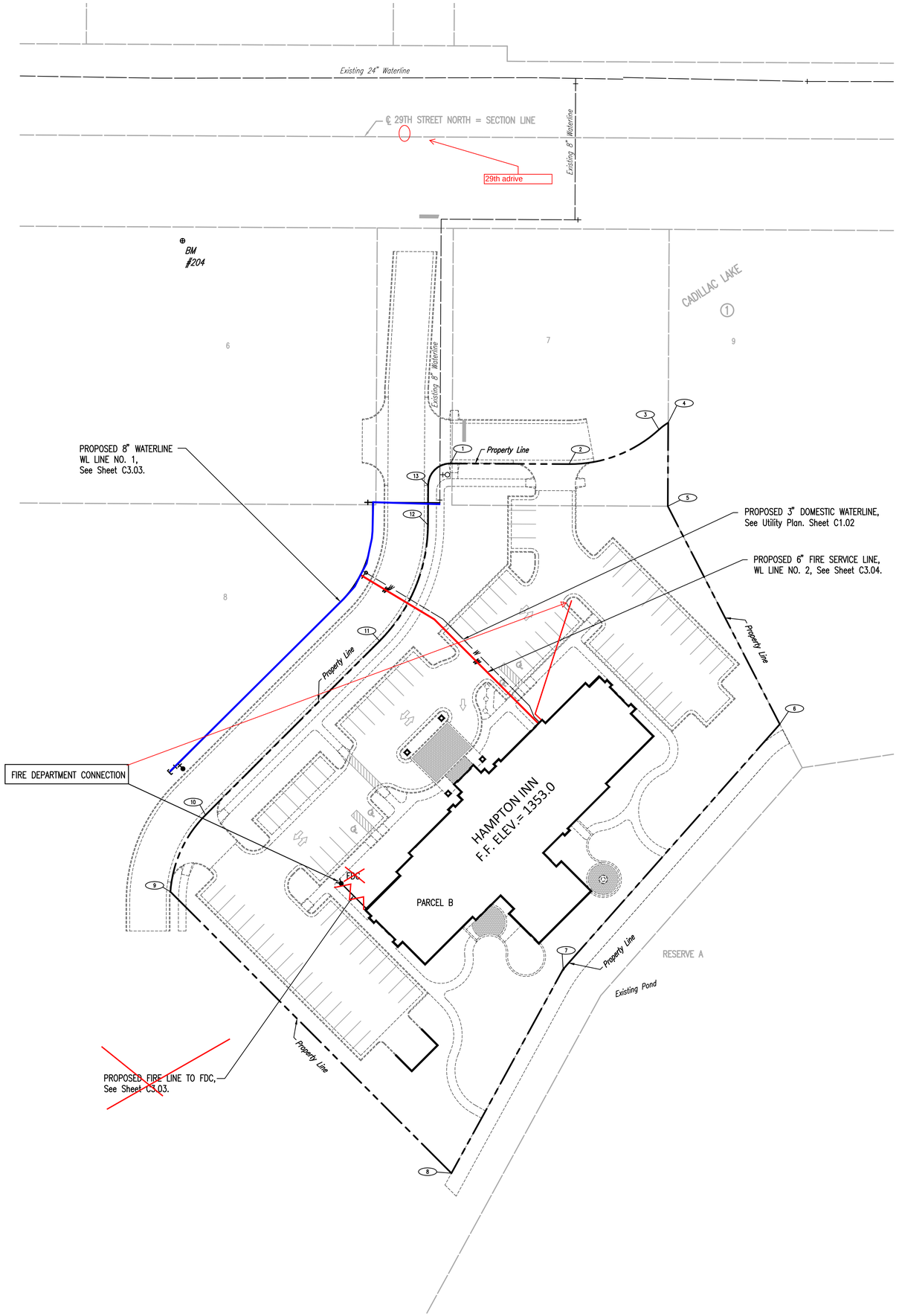
PROJECT NUMBER: **15433**

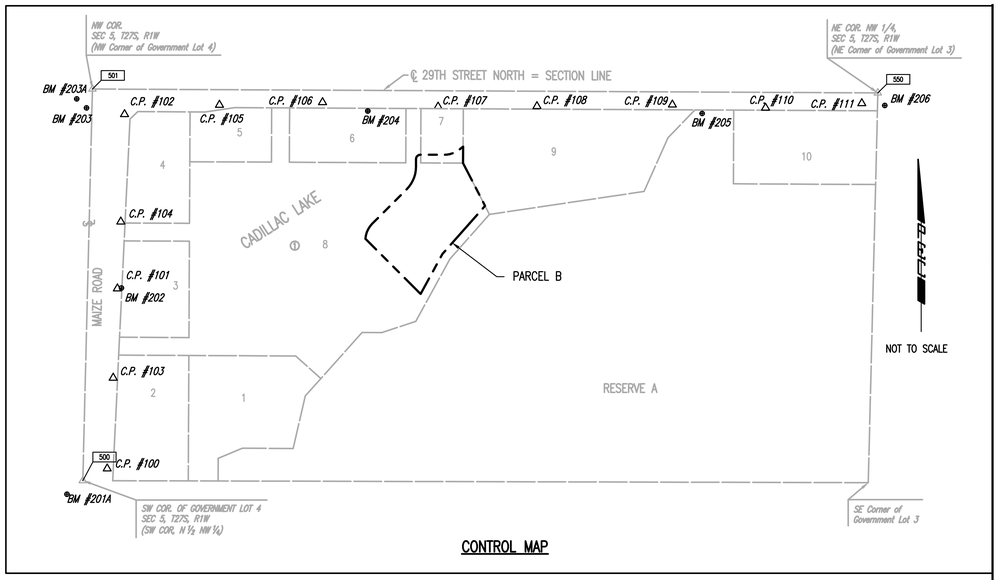
SHEET TITLE: UTILITY PLAN

SHEET NUMBER: **C1.02** OF: X

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

Saved: 03-21-2017, 3:07:20 PM by CSL
Plot Scale: 1:1, 03-21-2017 4:30:18 PM by CSL
U:\Wichita-Civil\2016\160551\000\Mxrn\Drawings\160551-000-C1-02-UTILITY PLAN





CONTROL MAP

BM #201

BENCH MARK LIST

BM #201A – CHISELED SQUARE ON TOP OF CURB, NORTH SIDE OF DRIVE ENTRANCE TO NORTHEAST CORNER OF TARGET PARKING LOT AND SOUTHWEST OF SOUTHWEST CORNER OF GOVERNMENT LOT 4, SEC: 5-27-1W.
ELEV.=1352.79 (NAVD88)

BM #202 – CHISELED "X" ON NORTH RIM OF TELEPHONE MANHOLE AT PVC TELEPHONE MARKER POST, 35 FEET SOUTH OF POWER POLE #62115, ON EAST SIDE OF ASPHALT BIKE PATH ON EAST SIDE OF MAIZE ROAD, 4 POLES NORTH OF TARGET, 3 POLES SOUTH OF 29TH STREET NORTH
ELEV.= 1350.53 (NAVD88)

BM #203 – CHISELED SQUARE AT SOUTHEAST CORNER OF SOUTH HEADWALL FOR RCBC UNDER 29TH STREET, WEST OF MAIZE MAIZE ROAD (NOT THE CHISELED + AT THE SOUTHWEST CORNER OF SAME HEADWALL)
ELEV.= 1353.32 (NAVD88)

BM #203A – CHISELED SQUARE ON TOP OF CURB INLET WEST SOUTHWEST OF 29H STREET AND MAIZE ROAD (DOES NOT INCLUDE ROUND PLASTIC DISK GLUED OVER PART OF SQUARE).
ELEV.= 1351.98 (NAVD88)

BM #204 – CHISELED SQUARE ON TOP OF RETAINING WALL AT SOUTHEAST CORNER OF CONCRETE PAD FOR ELECTRIC TRANSFORMER #10105 ON SOUTH SIDE OF 29TH STREET AND 800 FEET EAST OF BIKE PATH ON EAST SIDE OF MAIZE ROAD.
ELEV.= 1352.01 (NAVD88)

BM #205 – CHISELED SQUARE ON HIGH POINT OF EAST WINGWALL AT SOUTH END OF RCBC UNDER 29TH STREET, 600 FEET WEST OF NORTH ¼ CORNER SECTION 5-27-1W, FOR POND GOING SOUTH.
ELEV.= 1350.99 (NAVD88)

BM #206 – CHISELED SQUARE ON NORTH EDGE OF CURVY SIDEWALK AT FIRE HYDRANT ON SOUTH SIDE OF 29TH STREET, ½ MILE EAST OF MAIZE ROAD, SOUTHEAST OF N ¼ CORNER SEC 5-27-1W
ELEV.= 1350.92 (NAVD88)

SECTION CORNER

Pt. No. 500
EAST 1/16, NORTHEAST 1/4, SEC6, T27S, R1W
N: 8,950.4810, E: 5,095.8080
1/2" BAUGHMAN CAPPED REBAR IN ASPHALT
53.47° NORTHWEST TO 3 NAILS IN S.W.B. POLE
115.26' SOUTHWEST TO 3 NAILS IN S.W.B. POLE
83.59° SOUTHEAST TO 60# NAIL IN POWER POLE
36.30° W TO "+" CROSS ON TOP OF 12" C.M.P.

Pt. No. 501
NORTHEAST CORNER, SEC 6, T27S, R1W
N: 10,266.0020, E: 5,128.1290
¾" IRON PIPE IN ASPHALT
54.30° SOUTHEAST TO 3 NAILS IN UNDERGROUND MARKER POST
64.27° SOUTHWEST TO 60# NAIL IN TELEPHONE POLE
48.65° NORTHEAST TO 3 NAILS IN HIGH LINE POLE
46.40° NORTHWEST TO 3 NAILS IN HIGH LINE POLE

Pt. No. 550
EAST ¼ CORNER, SEC6, T27S, R1W
N: 10,253.0550, E: 7,760.2070
½" IRON PIPE IN ASPHALT
47.98° SOUTHEAST TO "+" CROSS ON SOUTH FACE OF STEEL GATE POST
69.20° EAST TO "+" CROSS ON NORTH FACE OF STEEL GATE POST
45.70° NORTHEAST TO 3 NAILS IN FENCE POST
39.87° WEST SOUTHWEST TO 2 NAILS IN TELEPHONE POLE

CONTROL POINTS

Pt. No. 100 C.P. #100
MON. PKN
N: 8,994.2040, E: 5,177.5870

Pt. No. 101
PKN
N: 9,597.4580, E: 5,211.7520

Pt. No. 102
PKN
N: 10,181.5580, E: 5,235.6590

Pt. No. 103
PKN
N: 9,298.2310, E: 5,197.6390

Pt. No. 104
PKN
N: 9,821.4260, E: 5,223.2540

Pt. No. 105
#4 BAR
N: 10,212.7870, E: 5,553.7820

Pt. No. 106
#4 BAR
N: 10,221.5930, E: 5,899.2830

Pt. No. 107
#4 BAR
N: 10,208.9100, E: 6,288.5020

Pt. No. 108
#4 BAR
N: 10,208.1070, E: 6,617.7130

Pt. No. 109
#4 BAR
N: 10,213.7460, E: 7,071.5560

Pt. No. 110
#4 BAR
N: 10,202.9280, E: 7,383.7340

Pt. No. 111
#4 BAR
N: 10,218.1220, E: 7,706.3080

SCALE: 1" = 30'
0 30 60

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT

PROPERTY COORDINATE LIST		
POINT	NORTH	EAST
1	10,045.9679	6,227.0301
2	10,045.5840	6,305.0744
3	10,068.3250	6,364.3094
4	10,072.8320	6,370.3439
5	10,017.8900	6,370.0737
6	9,874.5899	6,443.7422
7	9,713.5303	6,301.2376
8	9,579.3716	6,227.7456
9	9,764.4244	6,042.8851
10	9,814.8795	6,065.9883
11	9,929.2857	6,180.5135
12	10,005.5129	6,212.3310
13	10,031.5394	6,212.4590

(1) = COORDINATE POINT NO.

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

JOSHUA GOLAY LICENSED 24136 12/01/2016 KANSAS PROFESSIONAL ENGINEER

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

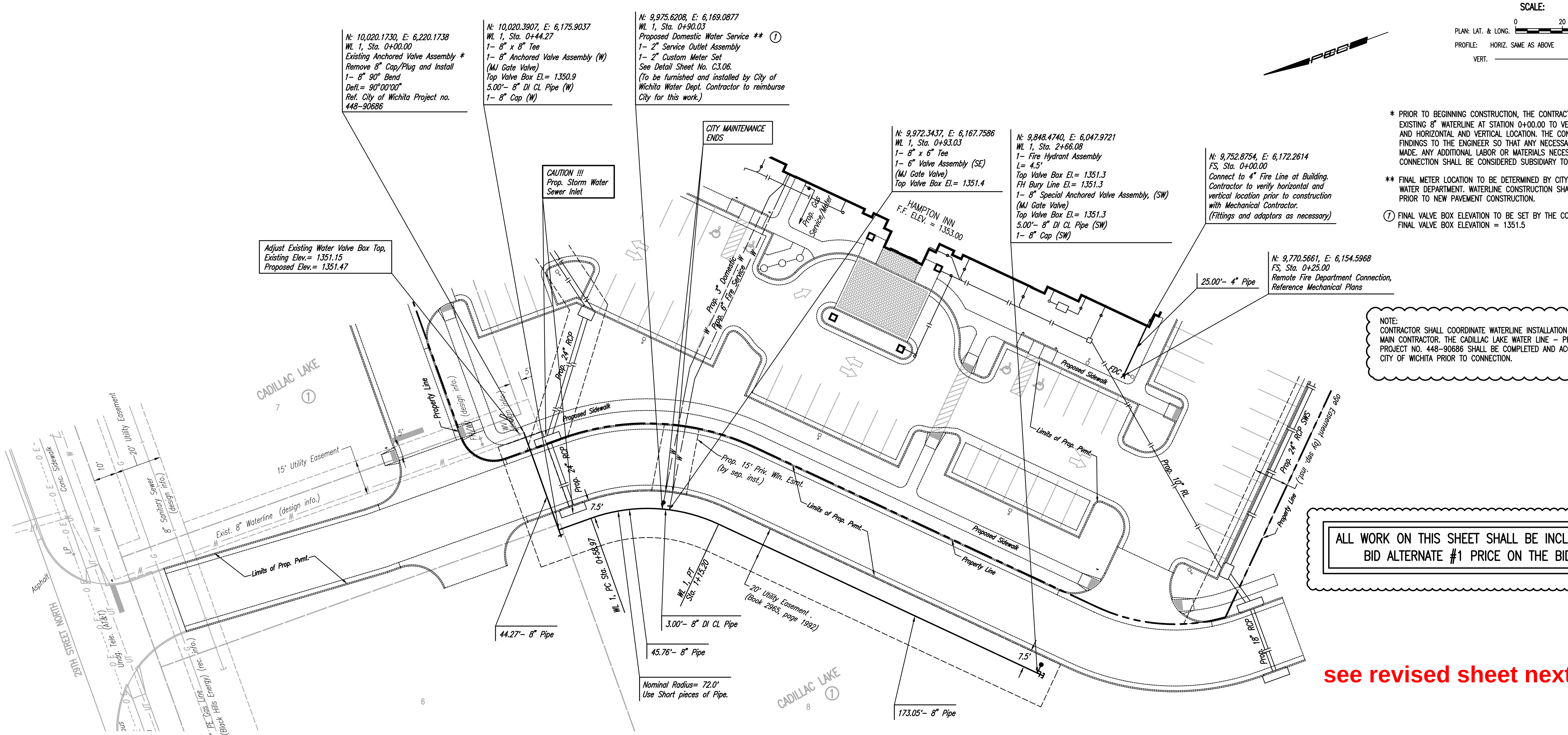
PROJECT NUMBER: **15433**

SHEET TITLE: PPW KEY MAP

SHEET NUMBER: **C3.02** OF: X

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

Saved: 11-18-2016 2:16:44 PM by: CSL
Plot: Scale 1:1, 11-30-2016 8:22:56 AM by: CSL
U:\Wichita-Civil\2016\16553\1000\Main\Drawings\16553-1-000-C3-02-PPW KEY MAP



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

* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" WATERLINE AT STATION 0+00.00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

** FINAL METER LOCATION TO BE DETERMINED BY CITY OF WICHITA WATER DEPARTMENT. WATERLINE CONSTRUCTION SHALL OCCUR PRIOR TO NEW PAVEMENT CONSTRUCTION.

(1) FINAL VALVE BOX ELEVATION TO BE SET BY THE CONTRACTOR. FINAL VALVE BOX ELEVATION = 1351.5

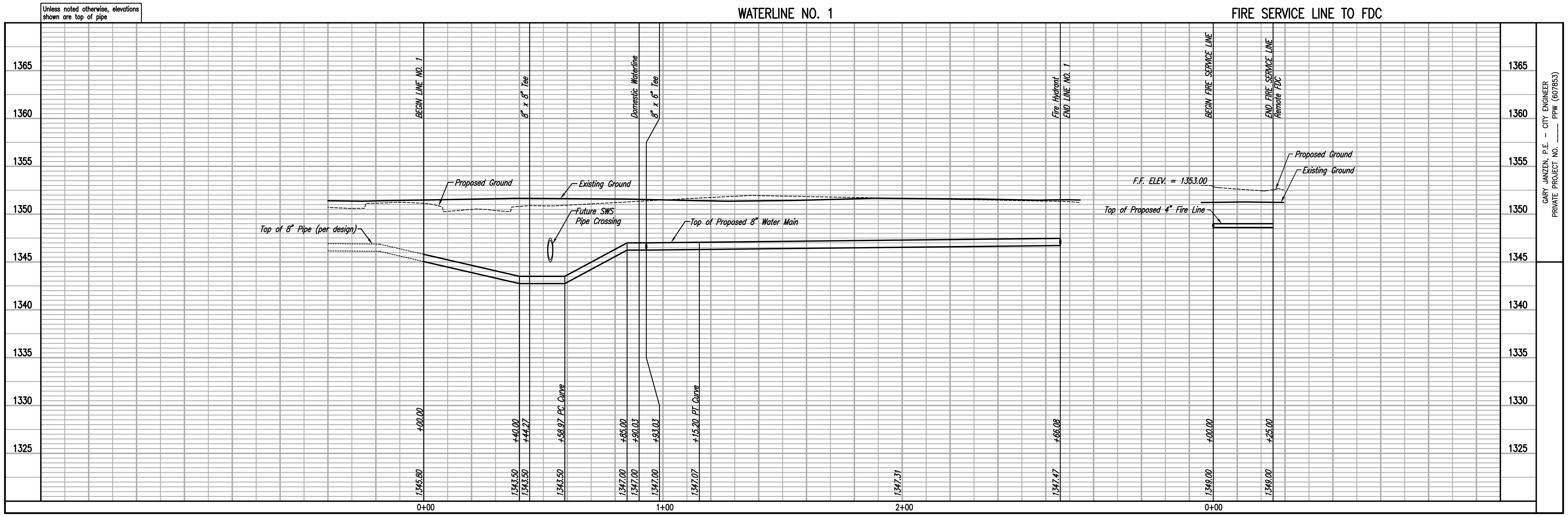
NOTE:
CONTRACTOR SHALL COORDINATE WATERLINE INSTALLATION WITH THE WATER MAIN CONTRACTOR. THE CADILLAC LAKE WATER LINE – PHASE 1A – COW PROJECT NO. 448-90686 SHALL BE COMPLETED AND ACCEPTED BY THE CITY OF WICHITA PRIOR TO CONNECTION.

ALL WORK ON THIS SHEET SHALL BE INCLUDED IN THE BID ALTERNATE #1 PRICE ON THE BID FORM.

see revised sheet next page

Unless noted otherwise, elevations shown are top of pipe

WATERLINE NO. 1 — FIRE SERVICE LINE TO FDC



Saved: 11–30–2016 9:41:06 AM by CSL
Plot Scale: 1:1 11–30–2016 9:11:23 AM by CSL
U:\Wichita–Civil\2016\160551\000\Main\Drawings\160551–000–C3–03–WATERLINE NO. 1

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

JOSHUA GOLKA LICENSED 24136 12/01/2016 KANSAS PROFESSIONAL ENGINEER

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

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER: 15433

SHEET TITLE: WATERLINE NO. 1

SHEET NUMBER: C3.03 OF: X

AS BUILTS

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

From center of 29th Street and center of South drive.
240' South 29.4' East to existing valve.
18' West to valve
2' East of valve to tee from valve West 6' to cap

From same tee South 48.76' to Line 2 tee and 2' East of that tee is a valve
From tee Line 2 North 7' is a deflection collar.

anchor coupling

N: 10,020.1730, E: 6,220.1738
WL 1, Sta. 0+00.00
Existing Anchored Valve Assembly *
Remove 8" Cap/Plug and Install
1- 8" 90° Bend
Defl.= 90°00'00"
Ref. City of Wichita Project no. 448-90686

N: 10,020.3907, E: 6,175.9037
WL 1, Sta. 0+44.27
1- 8" x 8" Tee
1- 8" Anchored Valve Assembly (W)
(MJ Gate Valve)
Top Valve Box EL= 1350.9
5.00'- 8" DI CL Pipe (W)
1- 8" Cap (W)

N: 9,975.6208, E: 6,169.0877
WL 1, Sta. 0+90.03
Proposed Domestic Water Service ** (1)
1- 2" Service Outlet Assembly
1- 2" Custom Meter Set
See Detail Sheet No. C3.06.
(To be furnished and installed by City of Wichita Water Dept. Contractor to reimburse City for this work.)

FH VB is 3' E of FH
FH is 4' W of BOC
VB looking SW is 4' W & 1' S of FH

American Darling (storz)

N: 9,972.3437, E: 6,167.7586
WL 1, Sta. 0+93.03
1- 8" x 6" Tee
1- 6" Valve Assembly (SE)
(MJ Gate Valve)
Top Valve Box EL= 1351.4

N: 9,848.4740, E: 6,047.9721
WL 1, Sta. 2+66.08
1- Fire Hydrant Assembly
L= 4.5'
Top Valve Box EL= 1351.3
FH Bury Line EL= 1351.3
1- 8" Special Anchored Valve Assembly, (SW)
(MJ Gate Valve)
Top Valve Box EL= 1351.3
5.00'- 8" DI CL Pipe (SW)
1- 8" Cap (SW)

N: 9,752.8754, E: 6,172.2614
FS, Sta. 0+00.00
Connect to 4" Fire Line at Building. Contractor to verify horizontal and vertical location prior to construction with Mechanical Contractor.
(Fittings and adaptors as necessary)

N: 9,770.5661, E: 6,154.5968
FS, Sta. 0+25.00
Remote Fire Department Connection, Reference Mechanical Plans

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

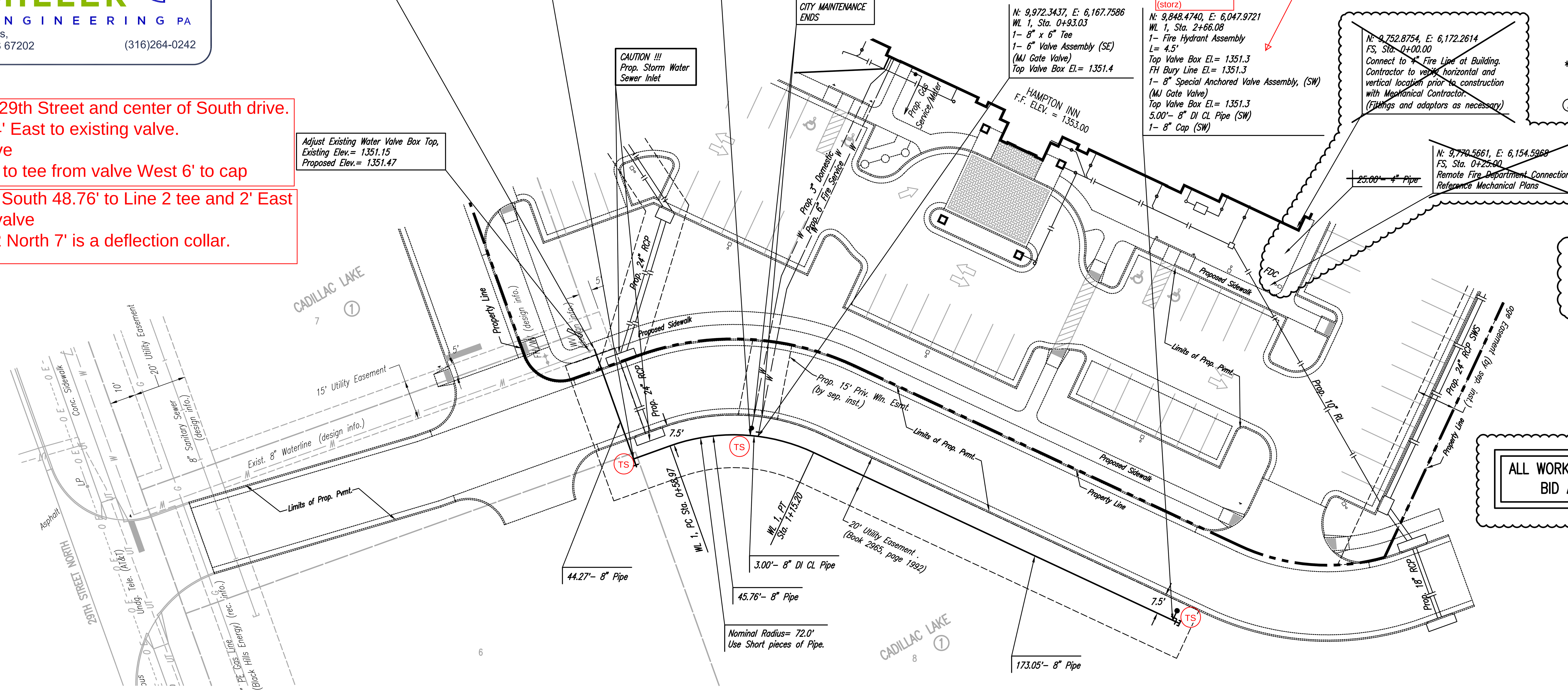
* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" WATERLINE AT STATION 0+00.00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

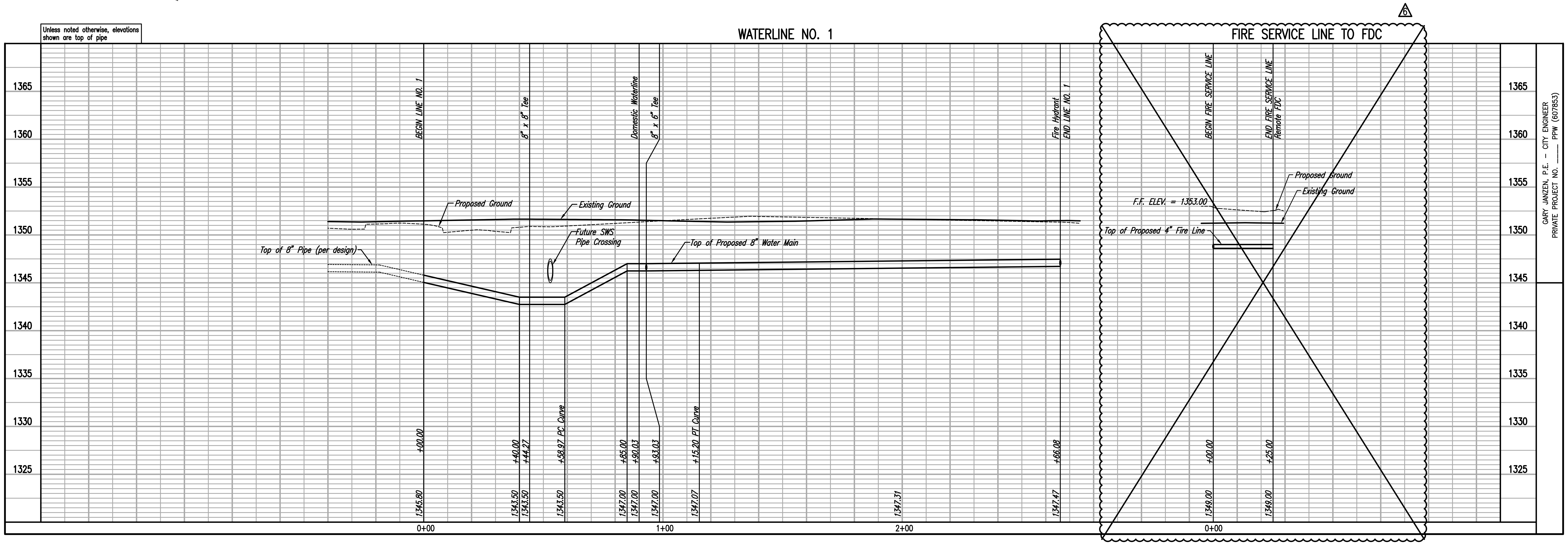
** FINAL METER LOCATION TO BE DETERMINED BY CITY OF WICHITA WATER DEPARTMENT. WATERLINE CONSTRUCTION SHALL OCCUR PRIOR TO NEW PAVEMENT CONSTRUCTION.

(1) FINAL VALVE BOX ELEVATION TO BE SET BY THE CONTRACTOR. FINAL VALVE BOX ELEVATION = 1351.5

NOTE:
CONTRACTOR SHALL COORDINATE WATERLINE INSTALLATION WITH THE WATER MAIN CONTRACTOR. THE CADILLAC LAKE WATER LINE – PHASE 1A – COW PROJECT NO. 448-90686 SHALL BE COMPLETED AND ACCEPTED BY THE CITY OF WICHITA PRIOR TO CONNECTION.

ALL WORK ON THIS SHEET SHALL BE INCLUDED IN THE BID ALTERNATE #1 PRICE ON THE BID FORM.


Adjust Existing Water Valve Box Top, Existing Elev.= 1351.15 Proposed Elev.= 1351.47
CAUTION !!! Prop. Storm Water Sewer Inlet
CITY MAINTENANCE ENDS
HAMPTON INN F.F. ELEV. = 1353.00
CADILLAC LAKE
15' Utility Easement
Exist. 8" Waterline (design info.)
Limits of Prop. Pvmt.
29TH STREET NORTH
Proposed Sidewalk
Prop. 15' Priv. Wtr. Esmt. (by sep. inst.)
Property Line
20' Utility Easement (Book 2965, page 1992)
44.27'- 8" Pipe
WL 1, PC Sta. 0+58.97
WL 1, PT Sta. 1+15.20
3.00'- 8" DI CL Pipe
45.76'- 8" Pipe
Nominal Radius= 72.0' Use Short pieces of Pipe.
173.05'- 8" Pipe
25.00'- 4" Pipe
7.5'
TS
FDC


Unless noted otherwise, elevations shown are top of pipe
WATERLINE NO. 1
FIRE SERVICE LINE TO FDC
1365
1360
1355
1350
1345
1340
1335
1330
1325
BEGIN LINE NO. 1
8" x 8" Tee
Domestic Waterline
8" x 6" Tee
Fire Hydrant END LINE NO. 1
BEGIN FIRE SERVICE LINE
END FIRE SERVICE LINE Remote FDC
Proposed Ground
Existing Ground
Future SWS Pipe Crossing
Top of 8" Pipe (per design)
Top of Proposed 8" Water Main
F.F. ELEV. = 1353.00
Top of Proposed 4" Fire Line
+00.00
+40.00
+44.27
+58.97 PC Curve
+85.00
+90.03
+93.03
+15.20 PT Curve
+66.08
+00.00
+25.00
1345.80
1343.50
1343.50
1343.50
1347.00
1347.00
1347.00
1347.07
1347.31
1347.47
1349.00
1349.00
0+00
1+00
2+00
0+00
GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. ____ PPW (607853)

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2
12.21.16	CITY COMMENTS	3
3.07.17	MISC. REVISIONS	5
3.17.17	MISC. REVISIONS	6

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

DARWIN R. CROWK LICENSED 14896 KANSAS PROFESSIONAL ENGINEER

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

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

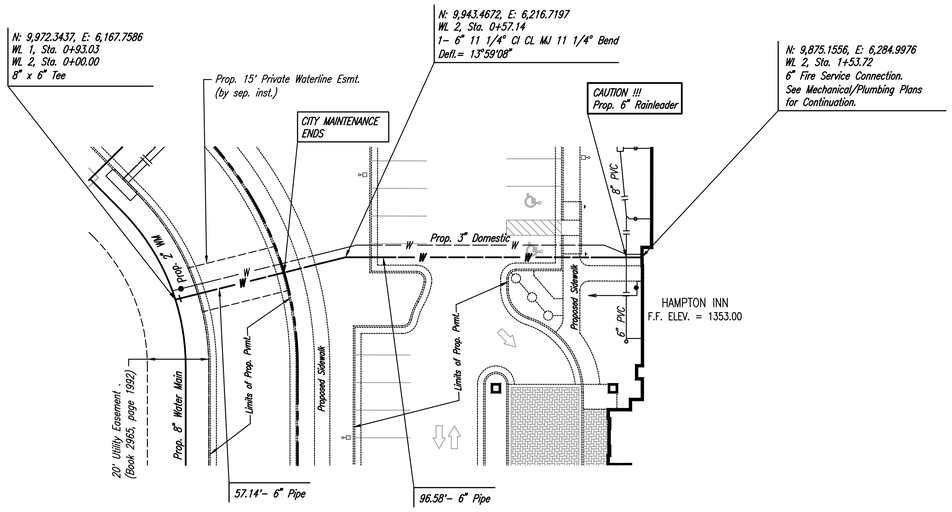
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER: 15433

SHEET TITLE: WATERLINE NO. 1

SHEET NUMBER: C3.03 OF: X

Saved: 03-21-2017 3:38:54 PM by CSL
Plot Scale: 1:1 03-21-2017 4:01:25 PM by CSL
U:\Wichita-Civil\2016\160551\000\Muni\Drawings\160551-000-C3-03-WATERLINE NO. 1



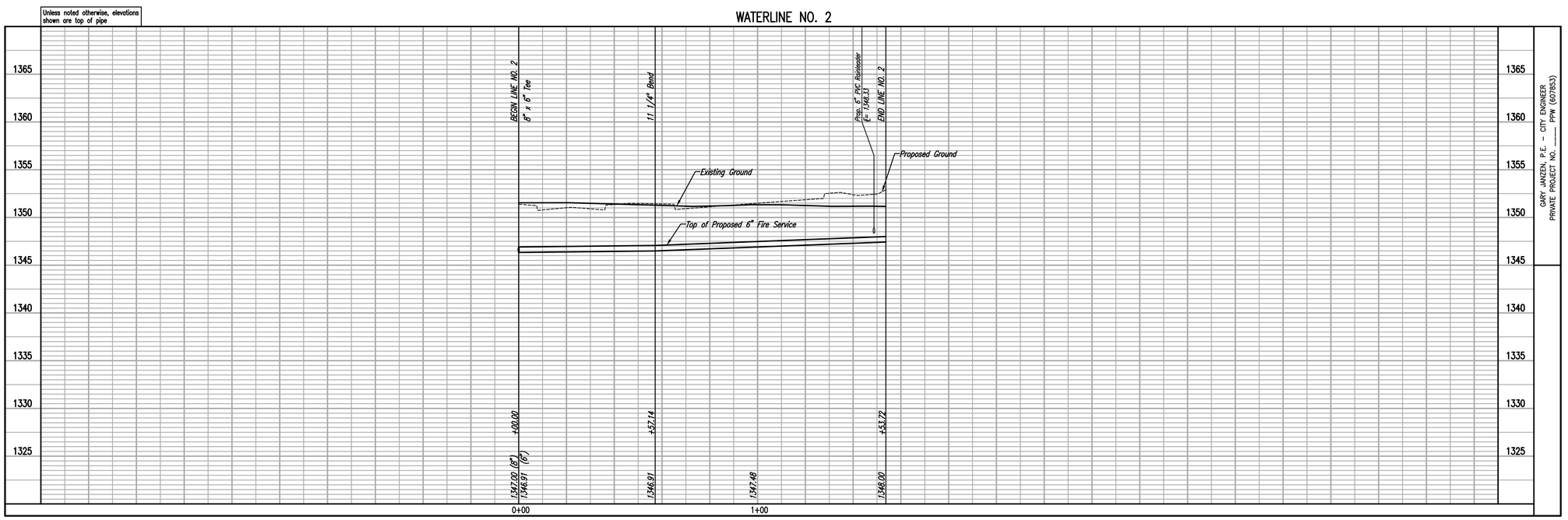
SCALE:

PLAN: LAT. & LONG. 0 20 40

PROFILE: HORIZ. SAME AS ABOVE

VERT. 5 0

see revised sheet next page



GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. ____ PPW (607853)

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

JOSHUA GOLKA LICENSED PROFESSIONAL ENGINEER 24136 12/01/2016 KANSAS

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
WATERLINE NO. 2

SHEET NUMBER:
C3.04 OF: X

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

Saved: 11-30-2016 8:31:32 AM by rCSL
Plot Scale: 1:1 11-30-2016 8:31:46 AM by rCSL
U:\Wichita-Civil\2016\160551\000\Mxmt\Drawings\160551-000-C3-04-WATERLINE NO. 2

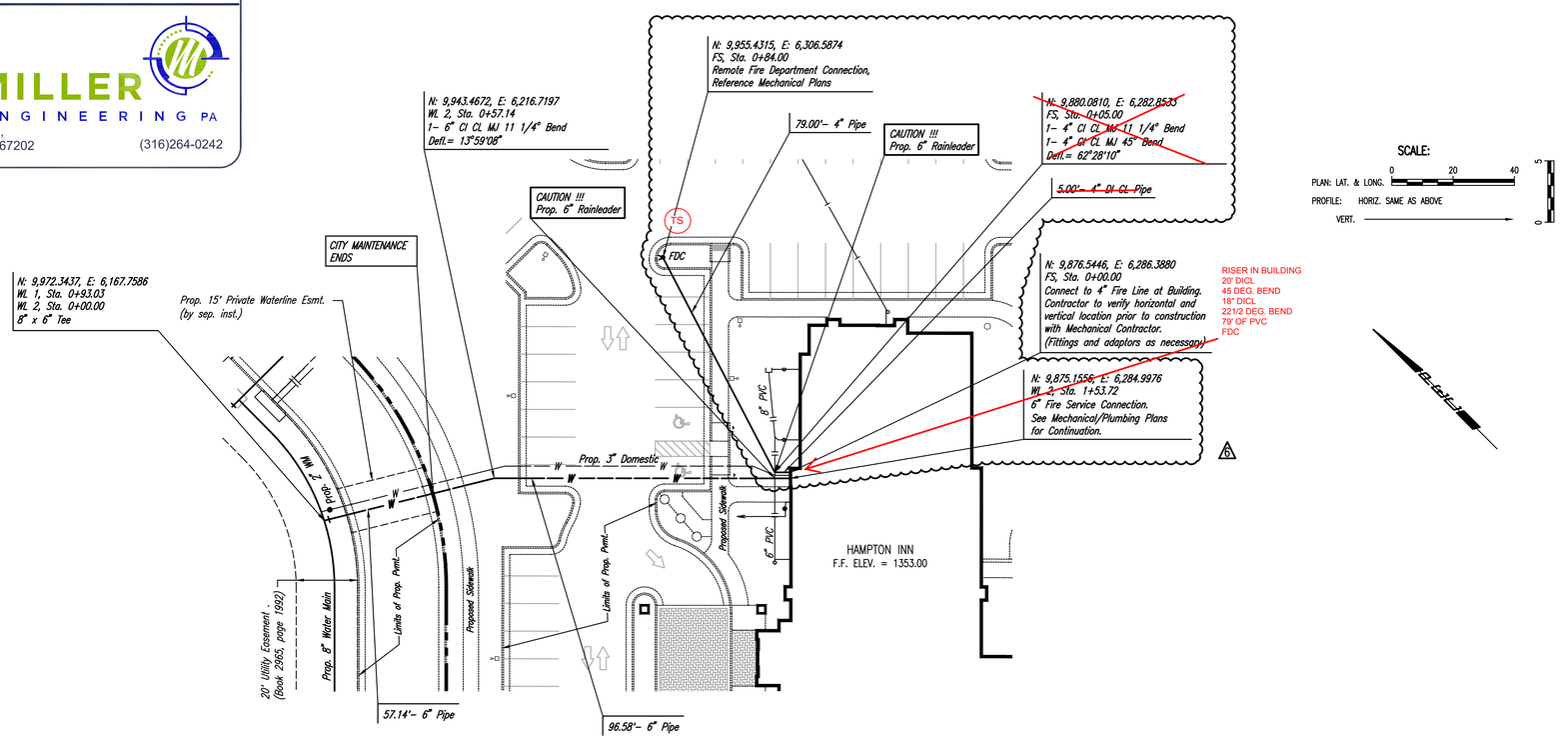
AS BUILTS

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

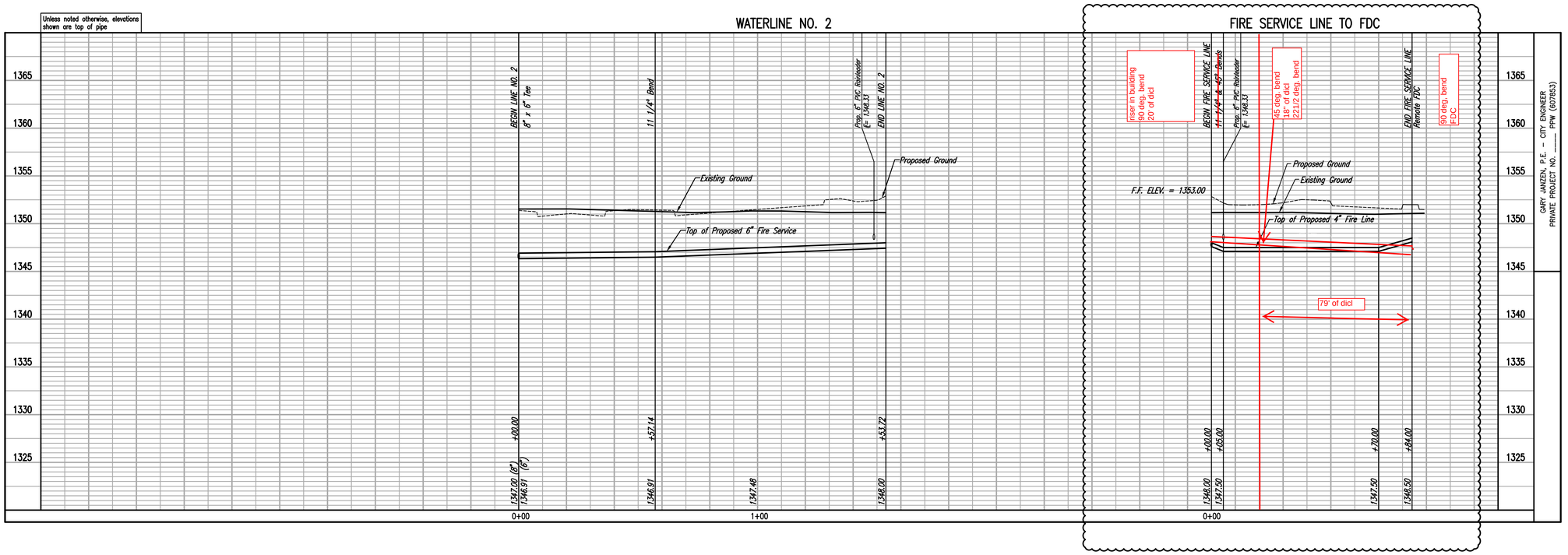
all bends
megaluged and
concrete thrust
blocks

79' of dicl
90 deg. bend
stand pipe
test station

Sta. o+oo.oo
riser
90 deg. bend
20' of dicl
45 deg. bend
18" of dicl
221/2 deg. bend



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



GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. _____ PPW (607853)

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2
12.21.16	CITY COMMENTS	3
3.07.17	MISC. REVISIONS	5
3.17.17	MISC. REVISIONS	6

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

DARWIN R. CRONK
LICENSED
14998
KANSAS
PROFESSIONAL ENGINEER

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

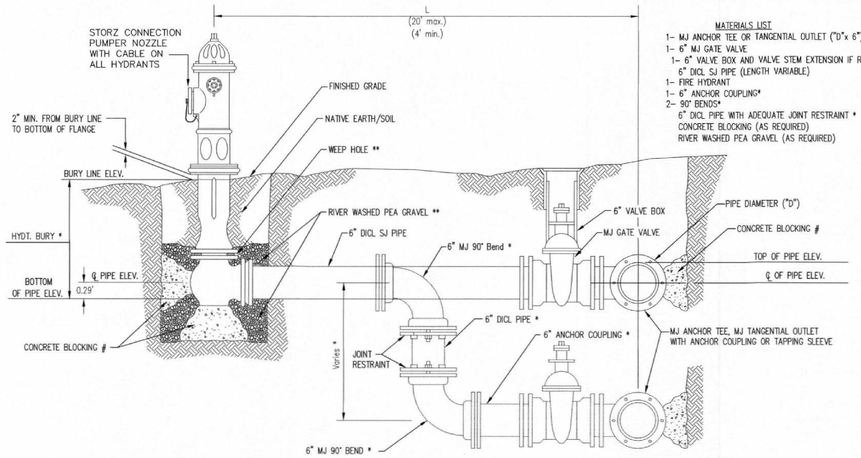
PROJECT NUMBER: 15433

SHEET TITLE: WATERLINE NO. 2

SHEET NUMBER: C3.04 OF: X

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-268-2691 www.pec1.com

Saved 03-21-2017 3:59:21 PM by CSL
Plot Scale 1:1 03-21-2017 4:01:26 PM by CSL
U:\Wichita-Civil\2016\160501\1000\Mark\Drawings\160501-1000-C3-04-WATERLINE NO. 2



MATERIALS LIST
1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D"x 6")
1- 6" MJ GATE VALVE
1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
6" DICL SJ PIPE (LENGTH VARIABLE)
1- FIRE HYDRANT
1- 6" ANCHOR COUPLING*
2- 90° BENDS*
6" DICL PIPE WITH ADEQUATE JOINT RESTRAINT *
CONCRETE BLOCKING (AS REQUIRED)
RIVER WASHED PEA GRAVEL (AS REQUIRED)

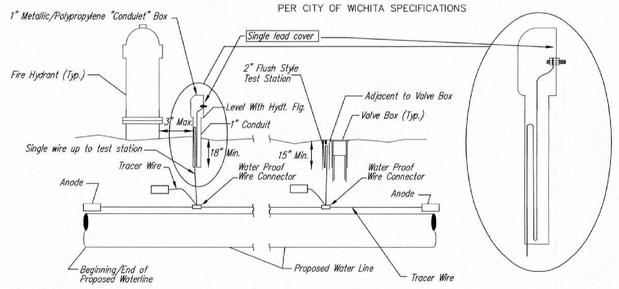
* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DICL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

\# CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANT ASSEMBLY

PER CITY OF WICHITA SPECIFICATIONS



TRACER WIRE

Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at www.wichita.gov.

WIRE

The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

TEST STATIONS

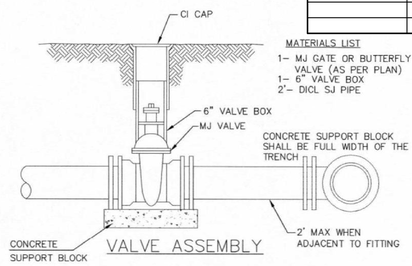
*The test station for fire hydrant application shall be a 1" "conduiet" style station as manufactured by ACRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.*

ANODES

The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

TRACER WIRE DETAIL

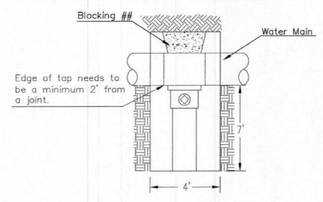
COST IS SUBSIDIARY TO PIPE INSTALLATION



MATERIALS LIST
1- MJ GATE OR BUTTERFLY
VALVE (AS PER PLAN)
1- 6" VALVE BOX
2"- DICL SJ PIPE

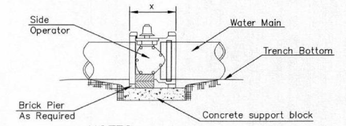
VALVE ASSEMBLY

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
WL 1, Sta. 2+66.08	*1351.3*	*1347.47*	*4.5'*	



CITY TAP

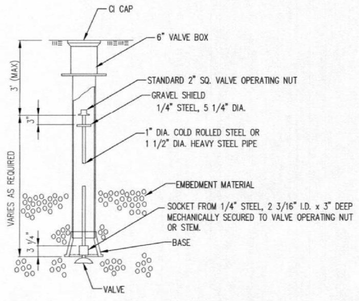
When the City of Wichita makes tap, blocking is to be done by Contractor



NOTES

1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-MJ ANCHOR COUPLING (12" OR SMALLER)
1-6" VALVE BOX
CONCRETE SUPPORT BLOCK SHALL BE
FULL WIDTH OF THE TRENCH

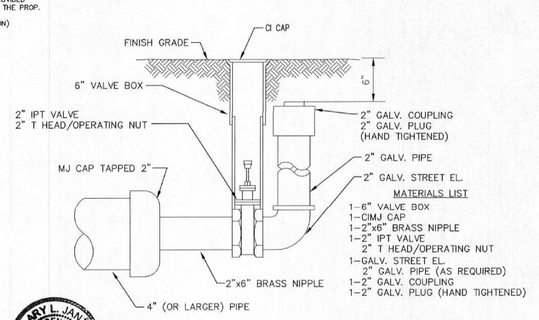
ANCHORED VALVE ASSEMBLY

PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3'. (COST SUBSIDIARY TO PIPE INSTALLATION)

VALVE STEM EXTENSION DETAIL

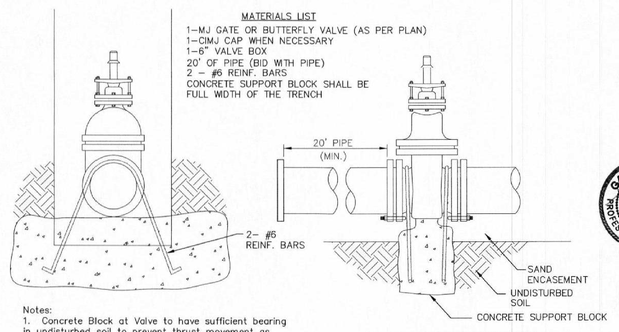
NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



MATERIALS LIST
1-6" VALVE BOX
1-CIMJ CAP
1-2"x6" BRASS NIPPLE
1-2" IPT VALVE
2" T HEAD/OPERATING NUT
1-GALV. STREET EL.
2" GALV. PIPE (AS REQUIRED)
1-2" GALV. COUPLING
1-2" GALV. PLUG (HAND TIGHTENED)

2" BLOWOFF ASSEMBLY

MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-CIMJ CAP WHEN NECESSARY
1-6" VALVE BOX
20' OF PIPE (BID WITH PIPE)
2 - #6 REINF. BARS
CONCRETE SUPPORT BLOCK SHALL BE
FULL WIDTH OF THE TRENCH



Notes:
1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

THRUST AT VALVES	
VALVE	THRUST AT 150 #/in²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

GARY L. JANZEN LICENSED 16294 PROFESSIONAL ENGINEER KANSAS
10/27/16

REVISED: OCTOBER 2016

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	*(607853)*	

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

SHEET

WL-101

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

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

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

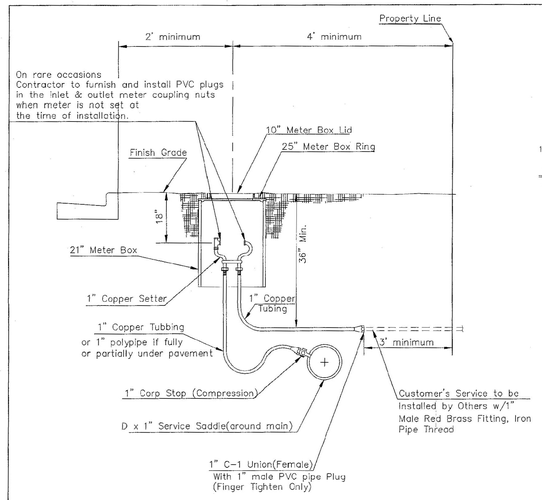
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
STANDARD WATER ASSEMBLY DETAILS

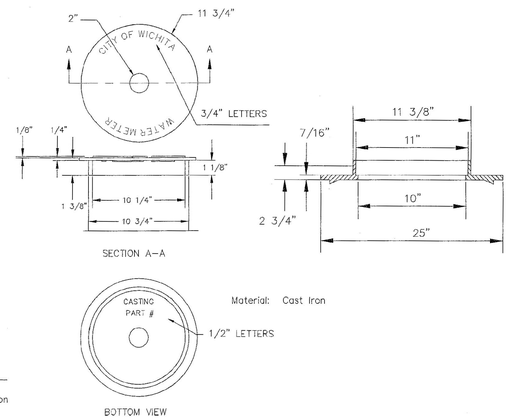
SHEET NUMBER:
C3.05 OF: X

Saved 11-08-2016 4:57:47 PM by KURTIS DEKAT
Plot Scale 1:1 11-30-2016 8:24:25 AM by KDK
U:\Wichita-Civil\2016\166501\000\Mwh\Drawings\166501-000-C3-05-STANDARD WATER ASSEMBLY DETAILS



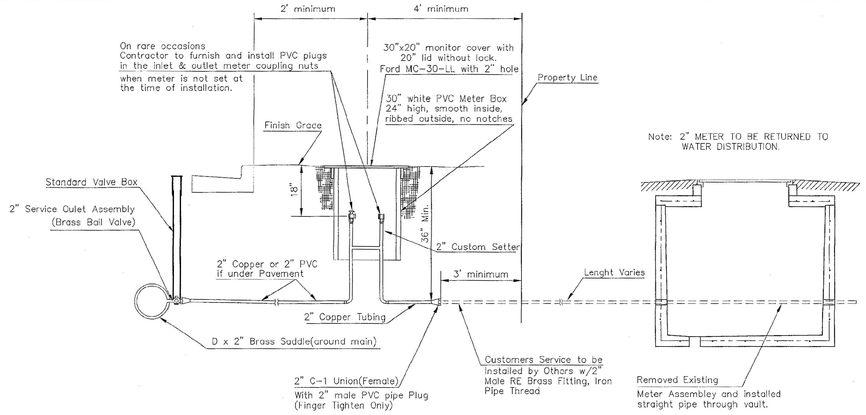
Minimum length of pigtail on consumer side is 36" of copper tubing from meter set.
Bore hole under paving shall be a maximum of 2" in diameter and a minimum of 36" below top of pavement.
Service Saddles are required on all mains.
Meter boxes will be located on each lot to be served, as indicated in the SPECIAL PROVISIONS

TYPICAL 1" METER SETTING



Material: Cast Iron

NOT TRAFFIC RATED
RING & LID FOR 1" METER BOX

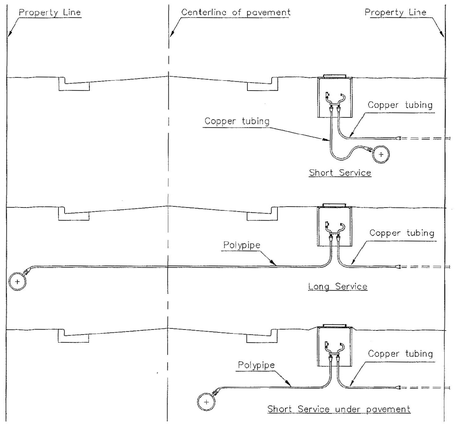


TYPICAL 2" METER SETTING

Note: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.

TYPICAL 2" METER SETTING INVOLVING EXISTING 2" METER VAULT

Note: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



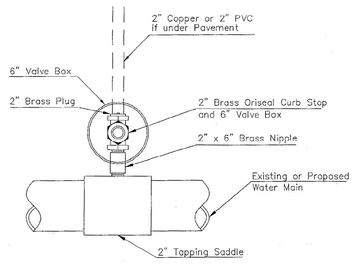
SERVICE TYPES

1 – Ø Mueller Thread Corporation Stop
– Ø Type "K" Copper Tubing
1 – Ø Copper to iron Union (Male)
1 – Ø Brass Curb Stop (Iron to Iron)
2 – Øx4" Brass Nipple

Air Release
2 – Ø Brass Elbows (90°)
1 – 1"x6" Brass Nipple
1 – 30" Monitor Cover
1 – 20" Meter Lid

NOTE:

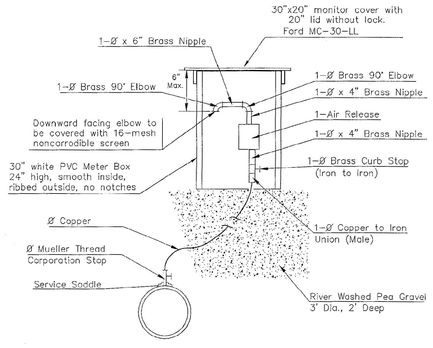
THE 1"/2" AIR RELEASE ASSEMBLY WILL TYPICALLY BE USED ON WATER MAINS 24" AND SMALLER, AS SPECIFICALLY DESIGNATED IN THE PLANS. COMBINATION AIR RELAEASE ASSEMBLIES WILL BE SPECIFICALLY DESIGNED FOR PROJECTS WITH LARGER MAINS, AND WILL BE INCLUDED IN THE PLANS.



Note: Where the 2" Service Outlet Assembly is to be used to connect a 2" main to another main, the 2" valve shall be a 2" IPT Gate Valve. 2" ball or globe vavles shall not be approved for this use.

2" SERVICE OUTLET ASSEMBLY

TOP VIEW



MATERIALS FOR 1" or 2" AIR RELEASE ASSEMBLY
Ø = 1" or 2"

GARY L. JANZEN
LICENSED
16294
KANSAS
PROFESSIONAL ENGINEER
01/26/15

REVISED: JANUARY 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD
WATER SERVICE
DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	

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

SHEET

WL-102

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

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

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

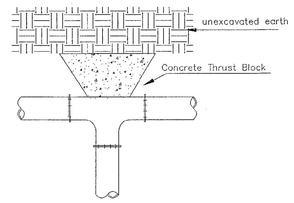
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

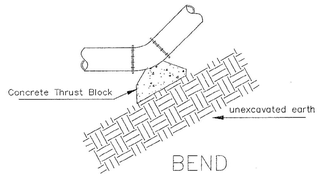
SHEET TITLE:
STANDARD WATER
SERVICE DETAILS

SHEET NUMBER:
C3.06 OF: X

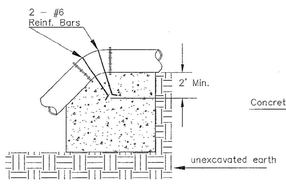
Saved 11-08-2016 4:45:09 PM by CSL
Plot Scale 1:1 11-30-2016 8:24:43 AM by CSL
U:\Wichita-Civil\2016\166051\2000\Mech\Drawings\166051-000-C3-06-STANDARD WATER SERVICE DETAILS



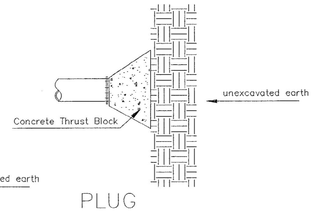
TEE



BEND



VERTICAL BEND

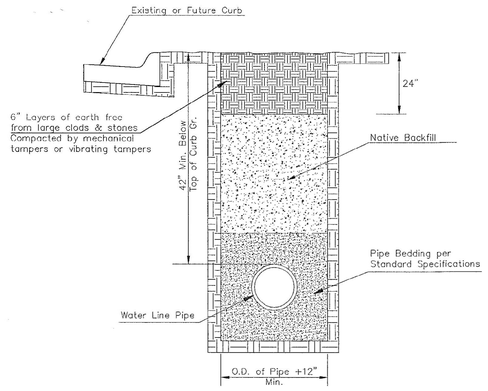


PLUG

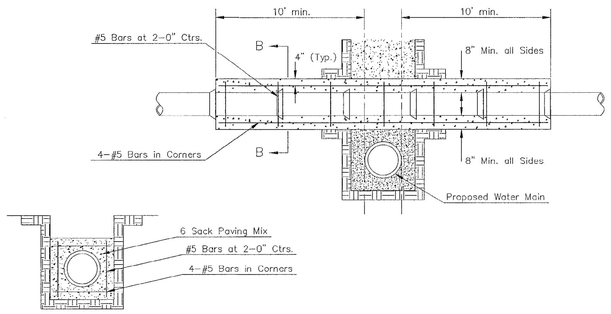
PIPE SIZE	THRUST AT FITTINGS IN TONS–AT 150#/IN^{2}P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS

KEY BLOCK DETAIL



TRENCH COMPACTION IN ROAD RIGHT–OF–WAY

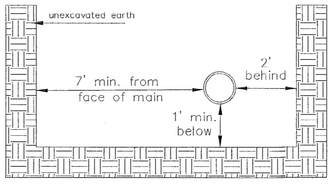


Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

SECTION B–B

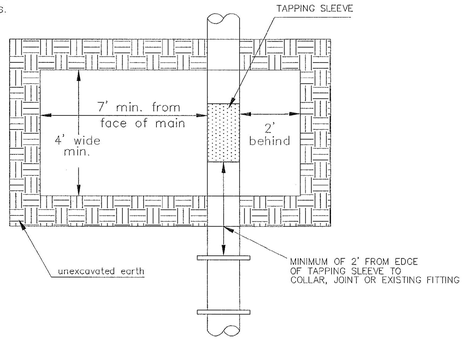
REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

SIDE VIEW

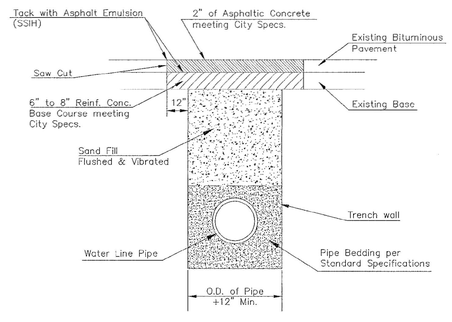


Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

TOP VIEW



EXCAVATION FOR WET TAP



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS

* PLANS GOVERN
UNLESS OTHERWISE NOTED ON PLANS

REVISED: JULY 2015

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
7/21/15

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

MISCELLANEOUS WATER DETAILS

CITY ENGINEER
GARY JANZEN, P.E..

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	

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

SHEET

WL-104

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LKArchitecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

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

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
MISCELLANEOUS WATER DETAILS

SHEET NUMBER:
C3.07 OF: X

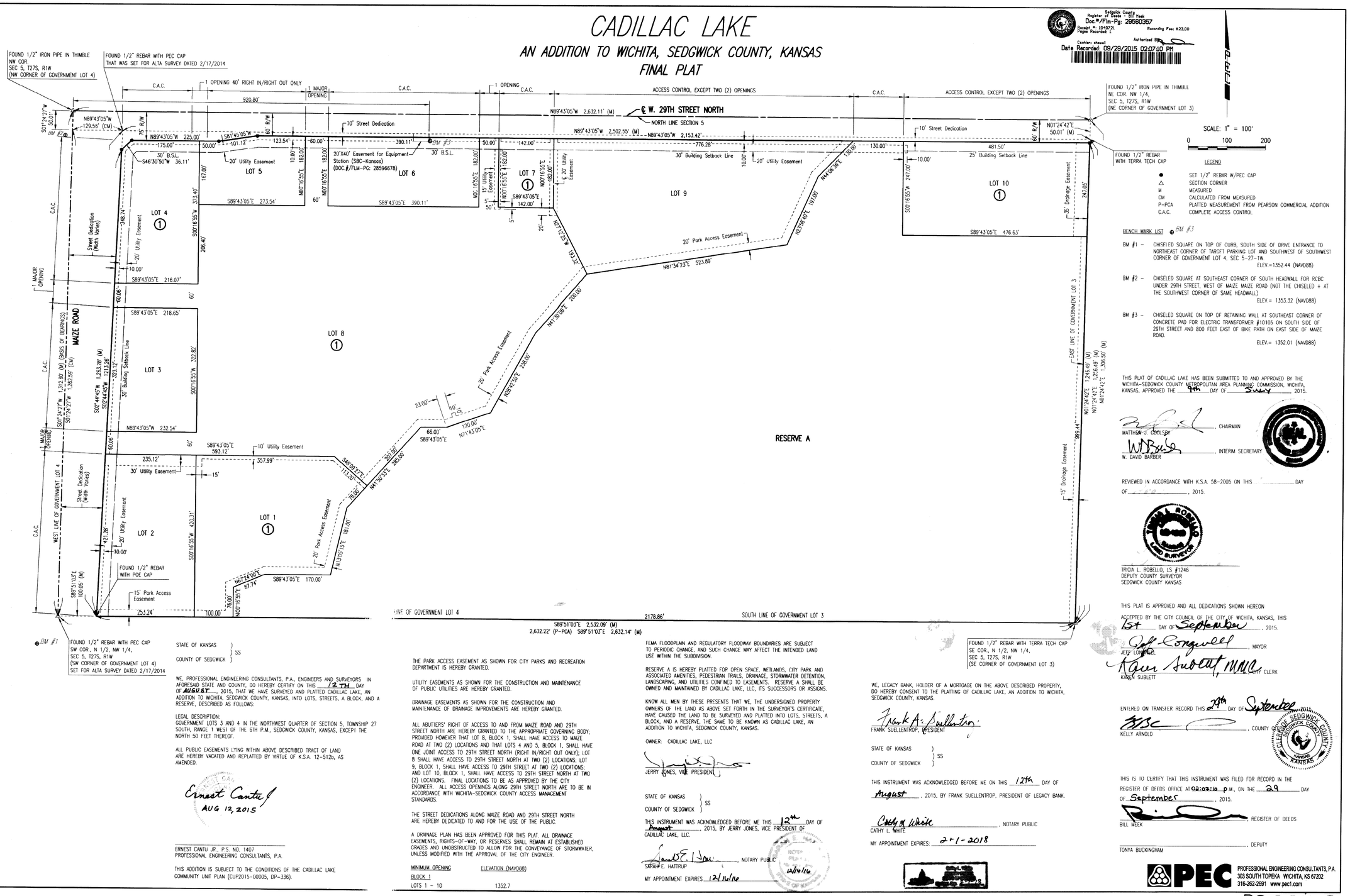
Saved: 11-08-2016 4:51:13 PM by CSL
Plot Scale: 1:1 11-30-2016 8:25:01 AM by CSL
U:\Wichita-Civil\2016\160551\000\Mwm\Drawings\160551-000-C3-07-MISCELLANEOUS WATER DETAILS

CADILLAC LAKE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

FINAL PLAT

Sedgwick County
Register of Deeds - Bill Healy
Doc.#/Fim-Pg: 28660357
Receipt #: 1849721
Pages Recorded: 1
Recording Fee: $23.00
Authorized By
Cashier: chauel
Date Recorded: 09/29/2015 02:07:10 PM



LEGEND

●	SET 1/2" REBAR W/PEC CAP
△	SECTION CORNER
M	MEASURED
CM	CALCULATED FROM MEASURED
P-PCA	PLATTED MEASUREMENT FROM PEARSON COMMERCIAL ADDITION
C.A.C.	COMPLETE ACCESS CONTROL

BENCH MARK LIST ⊕ BM #3

BM #1 – CHISELED SQUARE ON TOP OF CURB, SOUTH SIDE OF DRIVE ENTRANCE TO NORTHEAST CORNER OF TAROFT PARKING LOT AND SOUTHWEST OF SOUTHWEST CORNER OF GOVERNMENT LOT 4, SEC 5-27-1W.
ELEV.=1352.44 (NAVD88)

BM #2 – CHISELED SQUARE AT SOUTHEAST CORNER OF SOUTH HEADWALL FOR RCBC UNDER 29TH STREET, WEST OF MAIZE MAIZE ROAD (NOT THE CHISELED + AT THE SOUTHWEST CORNER OF SAME HEADWALL)
ELEV.= 1353.32 (NAVD88)

BM #3 – CHISELED SQUARE ON TOP OF RETAINING WALL AT SOUTHEAST CORNER OF CONCRETE PAD FOR ELECTRIC TRANSFORMER #10105 ON SOUTH SIDE OF 29TH STREET AND 800 FEET EAST OF BIKE PATH ON EAST SIDE OF MAIZE ROAD.
ELEV.= 1352.01 (NAVD88)

THIS PLAT OF CADILLAC LAKE HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS, APPROVED THE 9th DAY OF July, 2015.

MATTHEW J. COOLSBY, CHAIRMAN

W. DAVID BARBER, INTERIM SECRETARY

REVIEWED IN ACCORDANCE WITH K.S.A. 58-2005 ON THIS _____ DAY OF _____, 2015.

TRICIA L. ROBELLO, LS #1246
DEPUTY COUNTY SURVEYOR
SEDGWICK COUNTY KANSAS

THIS PLAT IS APPROVED AND ALL DEDICATIONS SHOWN HEREON ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS, THIS 1st DAY OF September, 2015.

JEFF LONGWELL, MAYOR

KAREN SUBLETT, MMC, CITY CLERK

ENTERED ON TRANSFER RECORD THIS 24th DAY OF September, 2015.

KELLY ARNOLD, COUNTY CLERK

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 02:07:10 P.M., ON THE 29 DAY OF September, 2015.

BILL WEEK, REGISTER OF DEEDS

TONYA BUCKINGHAM, DEPUTY

FOUND 1/2" REBAR WITH POE CAP
SW COR., N 1/2, NW 1/4, SEC 5, T27S, R1W (SW CORNER OF GOVERNMENT LOT 4) SET FOR ALTA SURVEY DATED 2/17/2014

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

WE, PROFESSIONAL ENGINEERING CONSULTANTS, P.A., ENGINEERS AND SURVEYORS IN AFORESAID STATE AND COUNTY, DO HEREBY CERTIFY ON THIS 12TH DAY OF AUGUST, 2015, THAT WE HAVE SURVEYED AND PLATTED CADILLAC LAKE, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, INTO LOTS, STREETS, A BLOCK, AND A RESERVE, DESCRIBED AS FOLLOWS:

LEGAL DESCRIPTION:
GOVERNMENT LOTS 3 AND 4 IN THE NORTHWEST QUARTER OF SECTION 5, TOWNSHIP 27 SOUTH, RANGE 1 WEST OF THE 6TH P.M., SEDGWICK COUNTY, KANSAS, EXCEPT THE NORTH 50 FEET THEREOF.

ALL PUBLIC EASEMENTS LYING WITHIN ABOVE DESCRIBED TRACT OF LAND ARE HEREBY VACATED AND REPLATTED BY VIRTUE OF K.S.A. 12-512b, AS AMENDED.

ERNEST CANTU JR., P.S. NO. 1407
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

THIS ADDITION IS SUBJECT TO THE CONDITIONS OF THE CADILLAC LAKE COMMUNITY UNIT PLAN (CUP2015-00005, DP-336).

S89°51'03"E 2,532.09' (M)
2,632.22' (P-PCA) S89°51'03"E 2,632.14' (M)
LINE OF GOVERNMENT LOT 4 — 2178.86' — SOUTH LINE OF GOVERNMENT LOT 3

THE PARK ACCESS EASEMENT AS SHOWN FOR CITY PARKS AND RECREATION DEPARTMENT IS HEREBY GRANTED.

UTILITY EASEMENTS AS SHOWN FOR THE CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES ARE HEREBY GRANTED.

DRAINAGE EASEMENTS AS SHOWN FOR THE CONSTRUCTION AND MAINTENANCE OF DRAINAGE IMPROVEMENTS ARE HEREBY GRANTED.

ALL ABUTTERS' RIGHT OF ACCESS TO AND FROM MAIZE ROAD AND 29TH STREET NORTH ARE HEREBY GRANTED TO THE APPROPRIATE GOVERNING BODY; PROVIDED HOWEVER THAT LOT 8, BLOCK 1, SHALL HAVE ACCESS TO MAIZE ROAD AT TWO (2) LOCATIONS AND THAT LOTS 4 AND 5, BLOCK 1, SHALL HAVE ONE JOINT ACCESS TO 29TH STREET NORTH (RIGHT IN/RIGHT OUT ONLY); LOT 8 SHALL HAVE ACCESS TO 29TH STREET NORTH AT TWO (2) LOCATIONS; LOT 9, BLOCK 1, SHALL HAVE ACCESS TO 29TH STREET AT TWO (2) LOCATIONS; AND LOT 10, BLOCK 1, SHALL HAVE ACCESS TO 29TH STREET NORTH AT TWO (2) LOCATIONS. FINAL LOCATIONS TO BE AS APPROVED BY THE CITY ENGINEER. ALL ACCESS OPENINGS ALONG 29TH STREET NORTH ARE TO BE IN ACCORDANCE WITH WICHITA-SEDGWICK COUNTY ACCESS MANAGEMENT STANDARDS.

THE STREET DEDICATIONS ALONG MAIZE ROAD AND 29TH STREET NORTH ARE HEREBY DEDICATED TO AND FOR THE USE OF THE PUBLIC.

A DRAINAGE PLAN HAS BEEN APPROVED FOR THIS PLAT. ALL DRAINAGE EASEMENTS, RIGHTS-OF-WAY, OR RESERVES SHALL REMAIN AT ESTABLISHED GRADES AND UNOBSTRUCTED TO ALLOW FOR THE CONVEYANCE OF STORMWATER, UNLESS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER.

MINIMUM OPENING	ELEVATION (NAVD88)
BLOCK 1	
LOTS 1 – 10	1352.7

FEMA FLOODPLAIN AND REGULATORY FLOODWAY BOUNDARIES ARE SUBJECT TO PERIODIC CHANGE, AND SUCH CHANGE MAY AFFECT THE INTENDED LAND USE WITHIN THE SUBDIVISION.

RESERVE A IS HEREBY PLATTED FOR OPEN SPACE, WETLANDS, CITY PARK AND ASSOCIATED AMENITIES, PEDESTRIAN TRAILS, DRAINAGE, STORMWATER DETENTION, LANDSCAPING, AND UTILITIES CONFINED TO EASEMENTS. RESERVE A SHALL BE OWNED AND MAINTAINED BY CADILLAC LAKE, LLC, ITS SUCCESSORS OR ASSIGNS.

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPERTY OWNERS OF THE LAND AS ABOVE SET FORTH IN THE SURVEYOR'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS, STREETS, A BLOCK, AND A RESERVE, THE SAME TO BE KNOWN AS CADILLAC LAKE, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

OWNER: CADILLAC LAKE, LLC

JERRY JONES, VICE PRESIDENT

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 12TH DAY OF August, 2015, BY JERRY JONES, VICE PRESIDENT OF CADILLAC LAKE, LLC.

SARAH E. HATTRUP, NOTARY PUBLIC

MY APPOINTMENT EXPIRES 12/16/18

FOUND 1/2" REBAR WITH TERRA TECH CAP
SE COR., N 1/2, NW 1/4, SEC 5, T27S, R1W (SE CORNER OF GOVERNMENT LOT 3)

WE, LEGACY BANK, HOLDER OF A MORTGAGE ON THE ABOVE DESCRIBED PROPERTY, DO HEREBY CONSENT TO THE PLATTING OF CADILLAC LAKE, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

FRANK SUELLENTROP, PRESIDENT

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 12th DAY OF August, 2015, BY FRANK SUELLENTROP, PRESIDENT OF LEGACY BANK.

CATHY L. WHITE, NOTARY PUBLIC

MY APPOINTMENT EXPIRES: 2-1-2018

PC 254-2

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

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

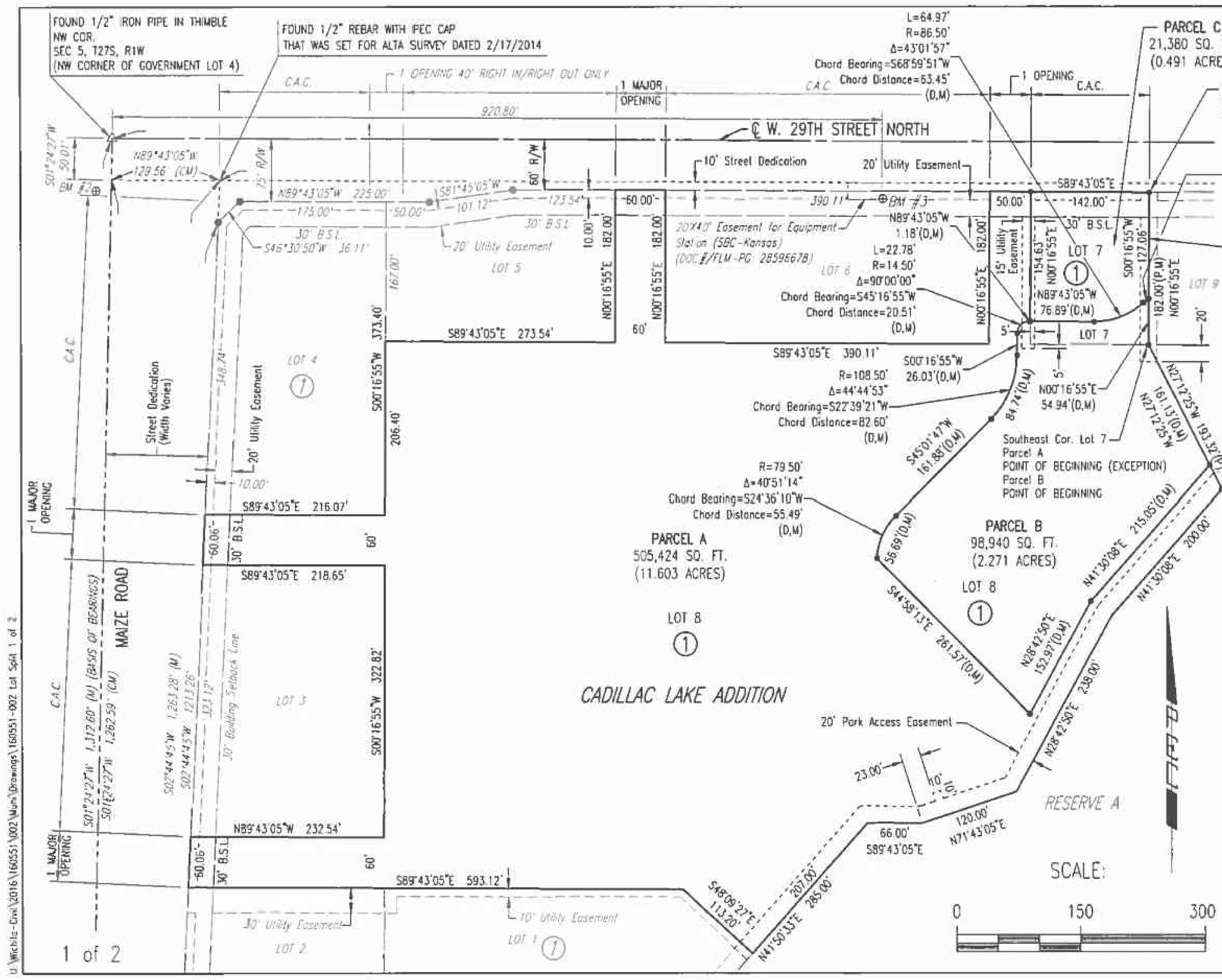
PROJECT NUMBER: 15433

SHEET TITLE: COPY OF PLAT

SHEET NUMBER: C2.01 OF: X

LOT SPLIT

NOTE:
THIS LOT SPLIT IS ASSOCIATED WITH A CUP ADJUSTMENT TO DP-336.



City of Wichita)
Sedgwick County) ss L/S No. LSP2016-00015
State of Kansas) Copy 1 of 2

I, Dale Miller, Director of Planning, Wichita-Sedgwick County Metropolitan Area Planning Department, do hereby certify under the authority granted in the Subdivision Rules and Regulations that the lot split to which this stamp affixed has been approved.

Given under my hand and seal this 12 day of SEPT., 20 16.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING DEPARTMENT

Dale Miller, Director of Planning

WICHITA SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION SEAL KANSAS

LOT SPLIT

LEGAL DESCRIPTION
For Parcel 'A'
Lot 8, Block 1, Cadillac Lake, an addition to Wichita, Sedgwick County, Kansas,
EXCEPT a Tract described as follows:
BEGINNING at the southeast corner of Lot 7, Block 1, Cadillac Lake, an addition to Wichita, Sedgwick County, Kansas; thence bearing North 00°16'55" East, along the east line of said Lot 7, a distance of 54.94 feet to a non-tangent curve to the left; thence along said curve to the left, having a radius of 37.50 feet, a chord bearing of South 53°14'42" West and a chord distance of 7.53 feet, through a central angle of 11°31'38" for an arc distance of 7.54 feet to a point of Reverse curvature; thence in a westerly direction along a tangent curve turning to the right, having a radius of 86.50 feet, a chord bearing of South 68°59'51" West and a chord distance of 63.45 feet, through a central angle of 43°01'57" for an arc distance of 64.97 feet; thence bearing North 89°43'05" West, a distance of 76.89 feet to a point on the west line of said Lot 7, said point being 27.37 feet north of the southwest corner of said Lot 7, said point also being on the boundary of Lot 8, Block 1, of said Cadillac Lake; thence continuing bearing North 89°43'05" West, a distance of 1.18 feet to a tangent curve to the left; thence along said curve to the left, having a radius of 14.50 feet, a chord bearing of South 45°16'55" West and a chord distance of 20.51 feet, through a central angle of 90°00'00" for an arc distance of 22.78 feet; thence bearing South 00°16'55" West, a distance of 26.03 feet to a tangent curve to the right; thence along said curve to the right, having a radius of 108.50 feet, a chord bearing of South 22°39'21" West and a chord distance of 82.60 feet, through a central angle of 44°44'53" for an arc distance of 84.74 feet; thence bearing South 45°01'47" West, a distance of 161.88 feet to a tangent curve to the left; thence along said curve to the left, having a radius of 79.50 feet, a chord bearing of South 24°36'10" West and a chord distance of 55.49 feet, through a central angle of 40°51'14" for an arc distance of 56.69 feet; thence bearing S44°58'13" East, a distance of 261.57 feet; thence bearing North 28°42'50" East, parallel with and 30.00 feet northwesterly (measured perpendicularly) from the southeasterly boundary of said Lot 8, a distance of 152.97 feet; thence bearing North 41°30'08" East, parallel with and 30.00 feet northwesterly (measured perpendicularly) from the southeasterly boundary of said Lot 8, a distance of 215.05 feet to the northeasterly boundary of said Lot 8; thence bearing North 27°12'25" West, along the northeasterly boundary of said Lot 8, a distance of 161.13 feet to the POINT OF BEGINNING.
(said Parcel 'A' containing 11.603 acres, more or less)

LEGAL DESCRIPTION
For Parcel 'B'
A Tract of land in Lot 7 and Lot 8, Block 1, Cadillac Lake, an addition to Wichita, Sedgwick County, Kansas,
described as follows:
BEGINNING at the southeast corner of Lot 7, Block 1, Cadillac Lake, an addition to Wichita, Sedgwick County, Kansas; thence bearing North 00°16'55" East, along the east line of said Lot 7, a distance of 54.94 feet to a non-tangent curve to the left; thence along said curve to the left, having a radius of 37.50 feet, a chord bearing of South 53°14'42" West and a chord distance of 7.53 feet, through a central angle of 11°31'38" for an arc distance of 7.54 feet to a point of Reverse curvature; thence in a westerly direction along a tangent curve turning to the right, having a radius of 86.50 feet, a chord bearing of South 68°59'51" West and a chord distance of 63.45 feet, through a central angle of 43°01'57" for an arc distance of 64.97 feet; thence bearing North 89°43'05" West, a distance of 76.89 feet to a point on the west line of said Lot 7, said point being 27.37 feet north of the southwest corner of said Lot 7, said point also being on the boundary of Lot 8, Block 1, of said Cadillac Lake; thence continuing bearing North 89°43'05" West, a distance of 1.18 feet to a tangent curve to the left; thence along said curve to the left, having a radius of 14.50 feet, a chord bearing of South 45°16'55" West and a chord distance of 20.51 feet, through a central angle of 90°00'00" for an arc distance of 22.78 feet; thence bearing South 00°16'55" West, a distance of 26.03 feet to a tangent curve to the right; thence along said curve to the right, having a radius of 108.50 feet, a chord bearing of South 22°39'21" West and a chord distance of 82.60 feet, through a central angle of 44°44'53" for an arc distance of 84.74 feet; thence bearing South 45°01'47" West, a distance of 161.88 feet to a tangent curve to the left; thence along said curve to the left, having a radius of 79.50 feet, a chord bearing of South 24°36'10" West and a chord distance of 55.49 feet, through a central angle of 40°51'14" for an arc distance of 56.69 feet; thence bearing S44°58'13" East, a distance of 261.57 feet; thence bearing North 28°42'50" East, parallel with and 30.00 feet northwesterly (measured perpendicularly) from the southeasterly boundary of said Lot 8, a distance of 152.97 feet; thence bearing North 41°30'08" East, parallel with and 30.00 feet northwesterly (measured perpendicularly) from the southeasterly boundary of said Lot 8, a distance of 215.05 feet to the northeasterly boundary of said Lot 8; thence bearing North 27°12'25" West, along the northeasterly boundary of said Lot 8, a distance of 161.13 feet to the POINT OF BEGINNING.
(said Parcel 'B' containing 2.271 acres, more or less)

LEGAL DESCRIPTION
For Parcel 'C'
A Tract of land in Lot 7, Block 1, Cadillac Lake, an addition to Wichita, Sedgwick County, Kansas,
described as follows:
BEGINNING at the northeast corner of Lot 7, Block 1, Cadillac Lake, an addition to Wichita, Sedgwick County, Kansas; thence bearing South 00°16'55" West, along the east line of said Lot 7, a distance of 127.06 feet to a non-tangent curve to the left; thence along said curve to the left, having a radius of 37.50 feet, a chord bearing of South 53°14'42" West and a chord distance of 7.53 feet, through a central angle of 11°31'38" for an arc distance of 7.54 feet to a point of Reverse curvature; thence in a westerly direction along a tangent curve turning to the right, having a radius of 86.50 feet, a chord bearing of South 68°59'51" West and a chord distance of 63.45 feet, through a central angle of 43°01'57" for an arc distance of 64.97 feet; thence bearing North 89°43'05" West, a distance of 76.89 feet to a point on the west line of said Lot 7, said point being 27.37 feet north of the southwest corner of said Lot 7; thence bearing North 00°16'55" East, along said west line, a distance of 154.63 feet to the northwest corner of said Lot 7; thence bearing South 89°43'05" East, along the north line of said Lot 7, a distance of 142.00 feet to the POINT OF BEGINNING.
(said Parcel 'C' containing 0.491 acres, more or less)

2 of 2

Saved 11-16-2016 7:56:53 AM by CSL
Plot Scale 1:1 11-30-2016 8:25:34 AM by CSL
U:\Wichita-Civil\2016\160551\000\Muni\Drawings\160551-000-C2-02-COPY OF LOT SPLIT

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

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

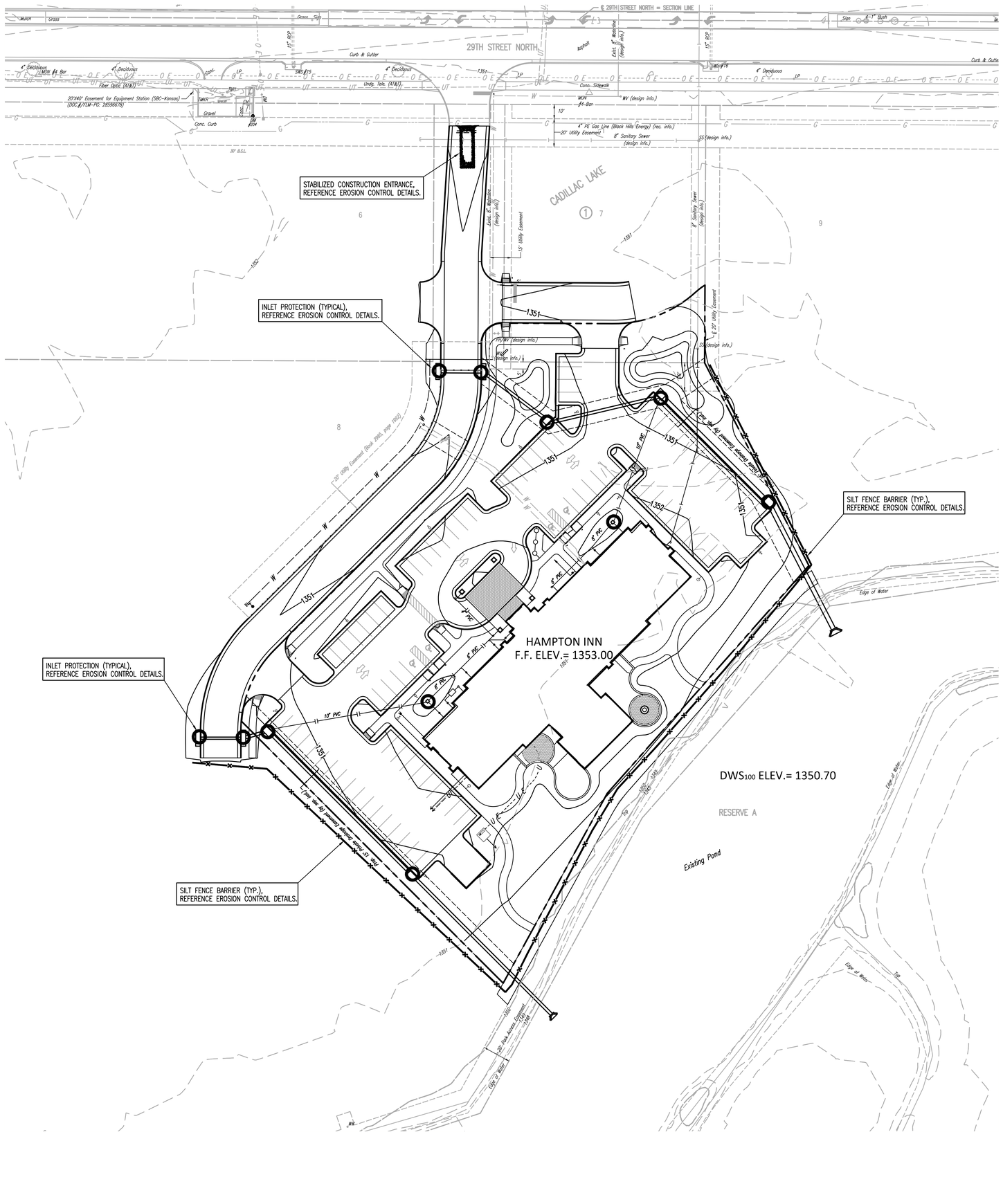
LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
COPY OF LOT SPLIT

SHEET NUMBER:
C2.02 OF: X



SCALE: 1" = 30'

0 30 60

LEGEND

PROPOSED INLET PROTECTION

STABILIZED CONSTRUCTION ENTRANCE
(FINAL LOCATION DETERMINED BY CONTRACTOR)

SILT FENCE BARRIERS

INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE.

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture

Architecture • Engineering • Planning • Interior Design • Landscape Architecture

JOSHUA GOLVIN LICENSED 24136 12/01/2016 KANSAS PROFESSIONAL ENGINEER

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

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

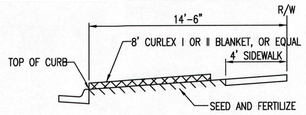
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER: 15433

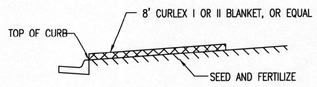
SHEET TITLE: EROSION CONTROL PLAN

SHEET NUMBER: C5.01 OF: X

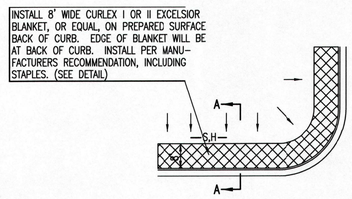
Saved: 11-09-2016 2:51:29 PM by JSL
Plot: Scale 1:1, 11-30-2016 8:28:45 AM by JSL
U:\Wichita-Civil\2016\160551\000\Mun\Drawings\160551-000-C5-01-EROSION CONTROL PLAN



SECTION B-B



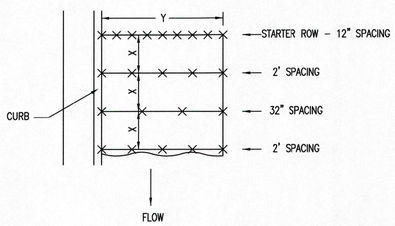
SECTION A-A



GENERAL NOTES

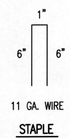
1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL



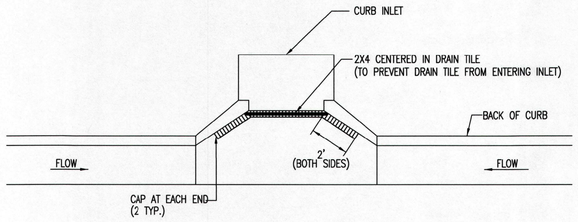
STAPLE PATTERN

NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)



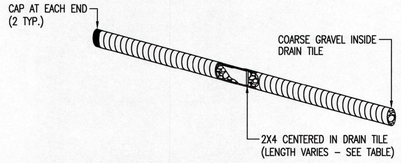
STAPLE

DETAILS FOR APPROVED EROSION CONTROL MAT

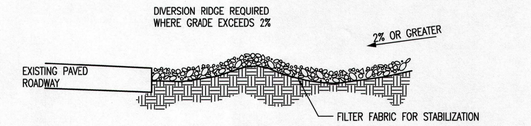


NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

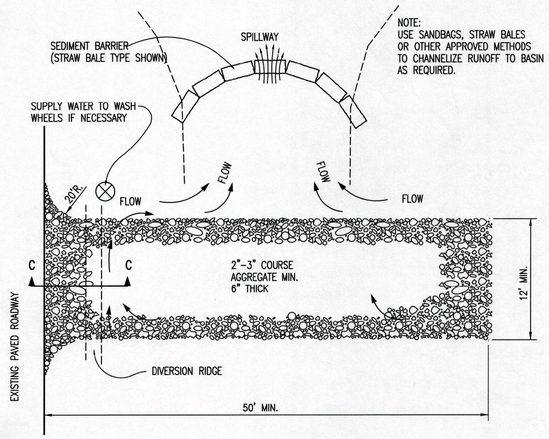
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED PROFESSIONAL ENGINEER 16214 KANSAS
05/31/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	

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

SHEET

SW-501

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

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

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 **F** 316.268.0205

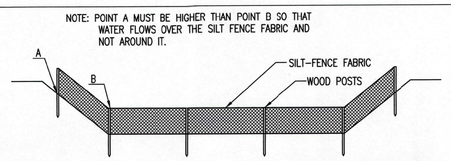
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
EROSION CONTROL DETAILS

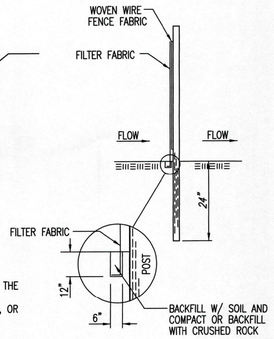
SHEET NUMBER:
C5.02 OF: X

Saved: 09-22-2016, 3:24:06 PM by: CSL
Plot: Scale: 1:1, 11-30-2016 @2:09 AM by: CSL
U:\Wichita-Civil\2016\166551\000\Mxm\Drawings\166551-000-05-02-EROSION CONTROL DETAILS



ELEVATION

SILT FENCE DITCH CHECKS
(STREAM PROTECTION)



ANCHOR TRENCH DETAIL

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED.
WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED.
SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE.
EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK.
PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH.
LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

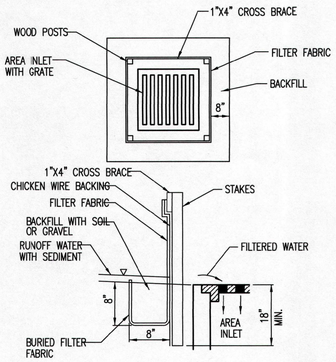
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK--NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERRORATE WHEN WATER OVERTOPS THEM.
DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE.
DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS.
SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED.
WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME.
WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE.
DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET.
THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM.
CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING.
ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

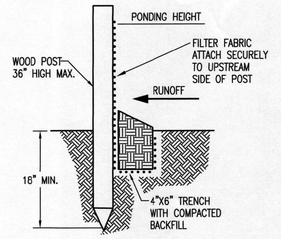
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET--NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESISTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE SILT FENCE?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE.
MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES.
DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT.
SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND--SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DO THE SILT FENCES SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16204 KANSAS PROFESSIONAL ENGINEER
05/31/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	

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

SHEET

SW-502

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316.262.2691 www.pec1.com

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

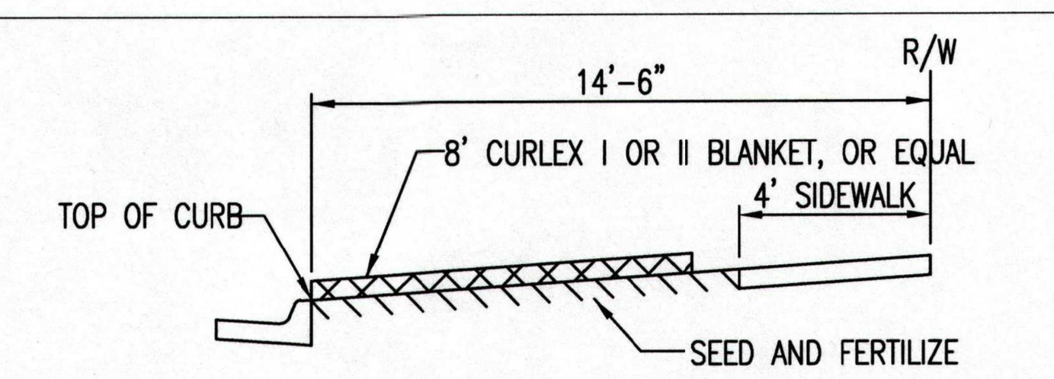
SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C5.03
OF: X

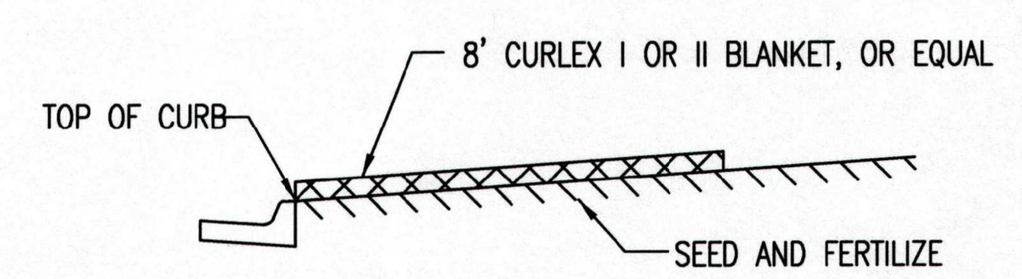
Saved 08-22-2016 3:28:46 PM by CSL
Plot Scale 1:1 11-30-2016 8:27:25 AM by CSL
U:\Wichita-Civil\2016\16551\1000\Main\Drawings\16551-000-C5-03-EROSION CONTROL DETAILS

PRINTS ISSUED		
DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

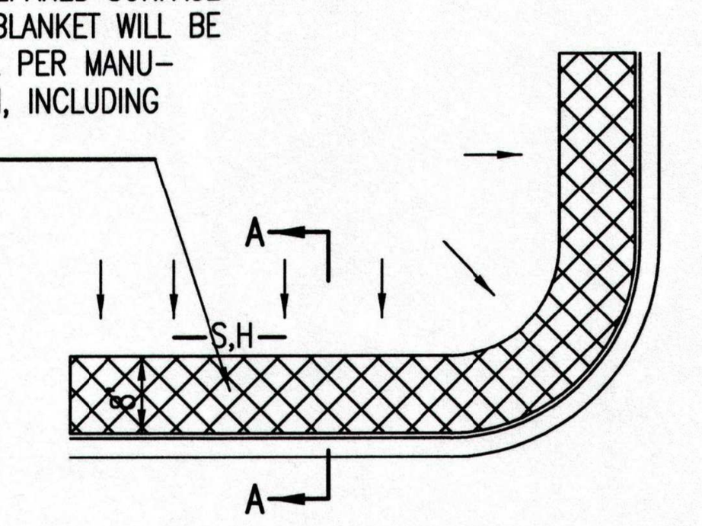


SECTION B-B

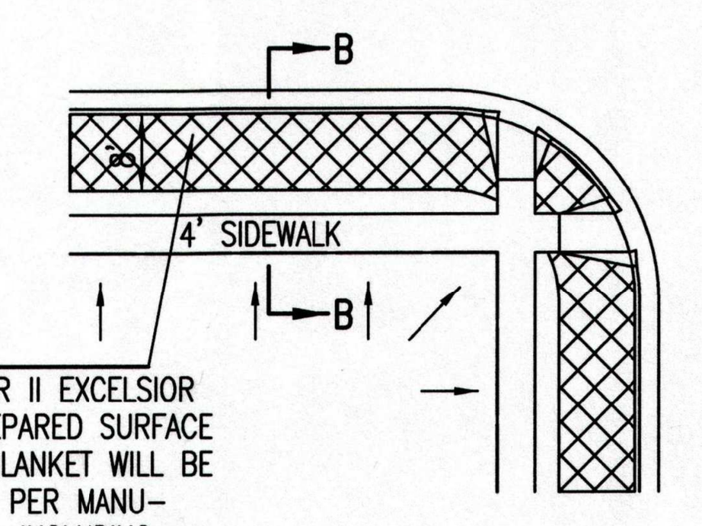


SECTION A-A

INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

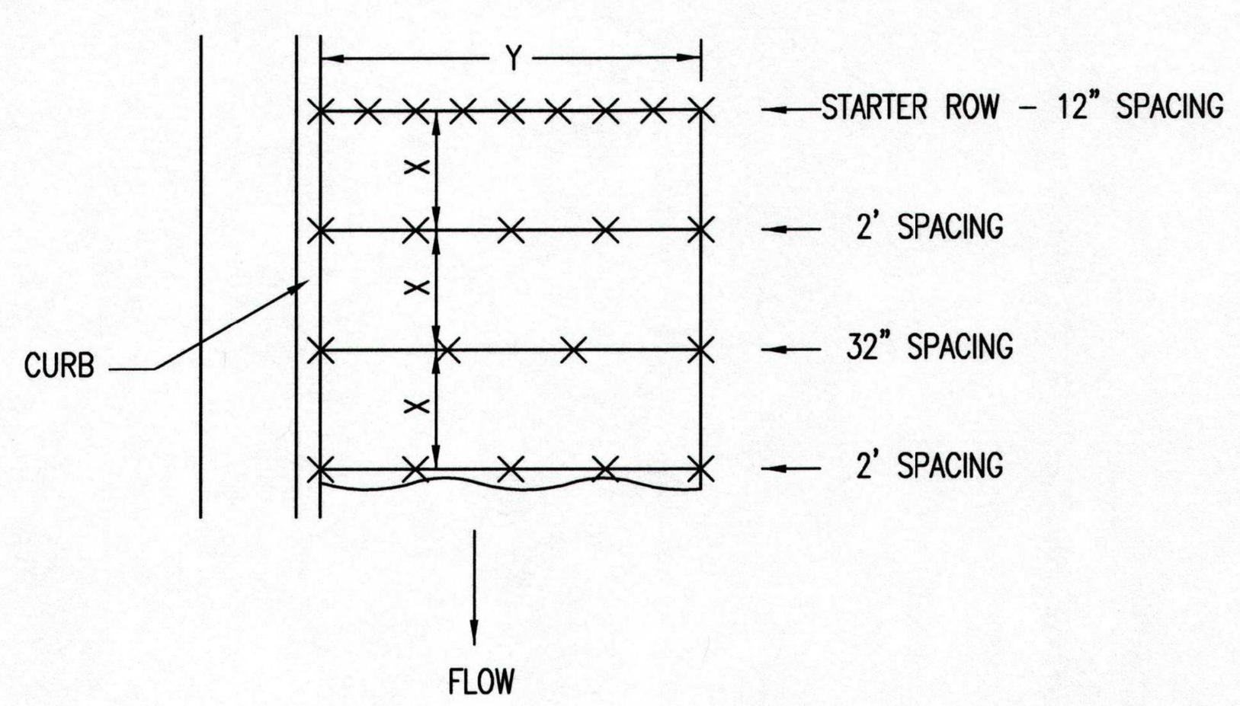


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

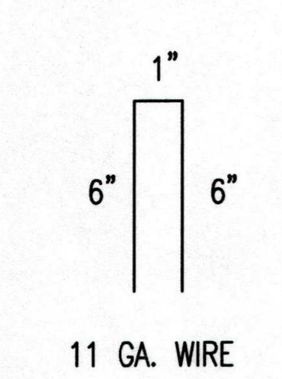
1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL



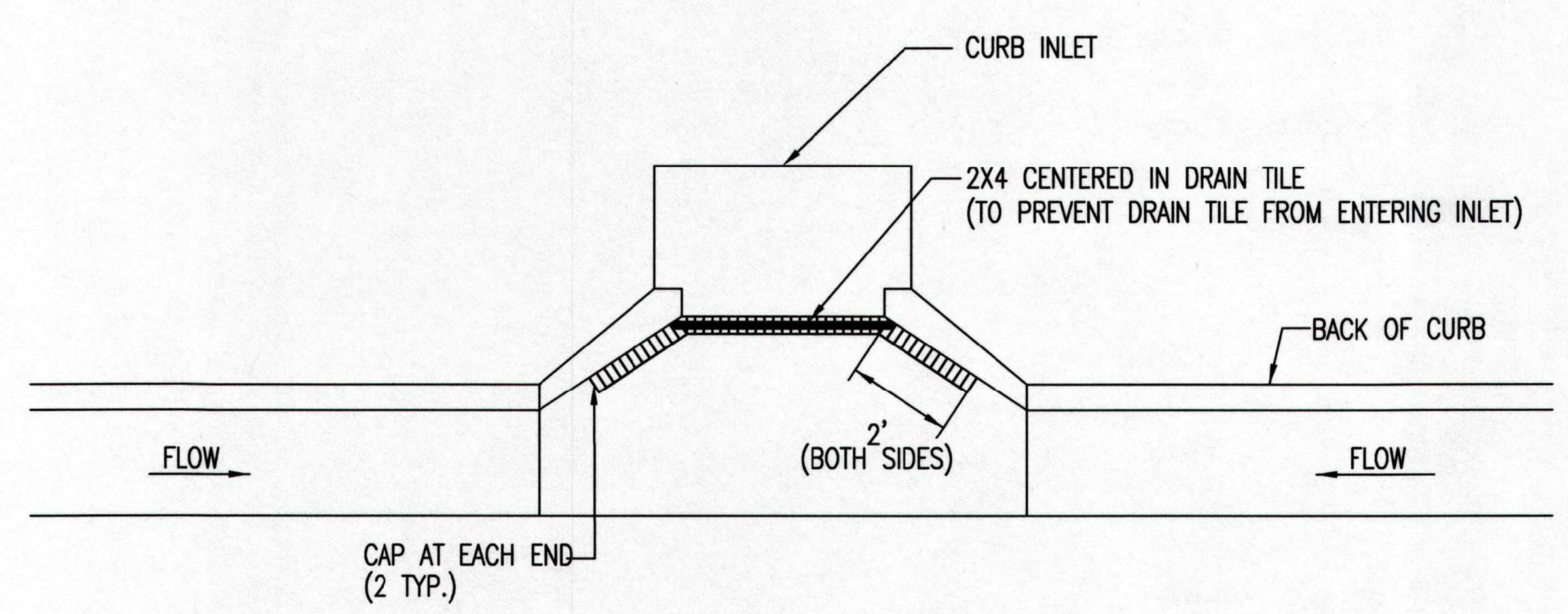
STAPLE PATTERN

NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)



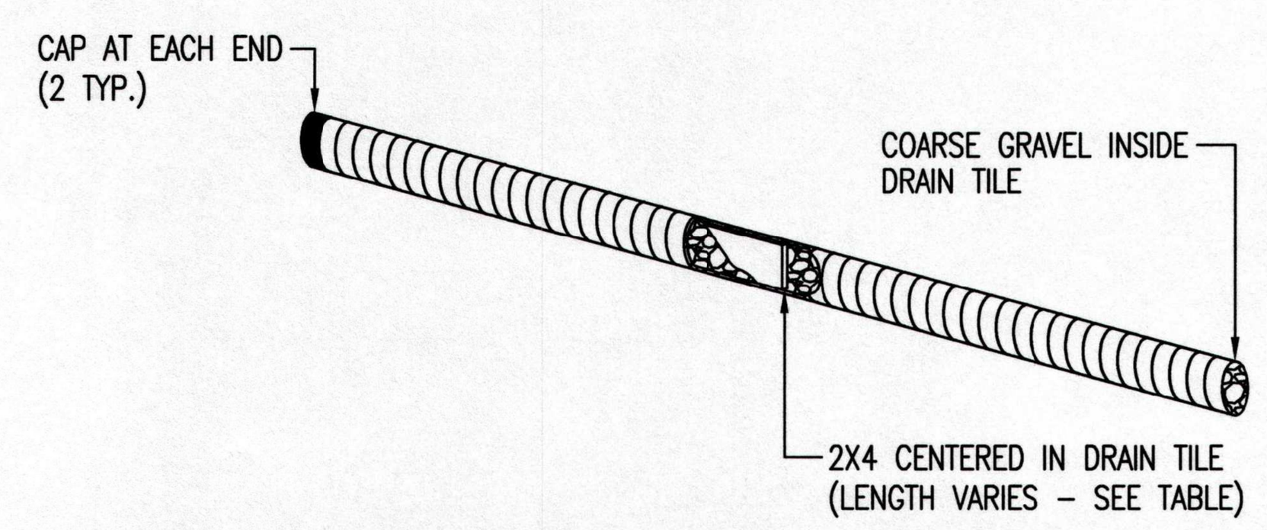
STAPLE

DETAILS FOR APPROVED EROSION CONTROL MAT

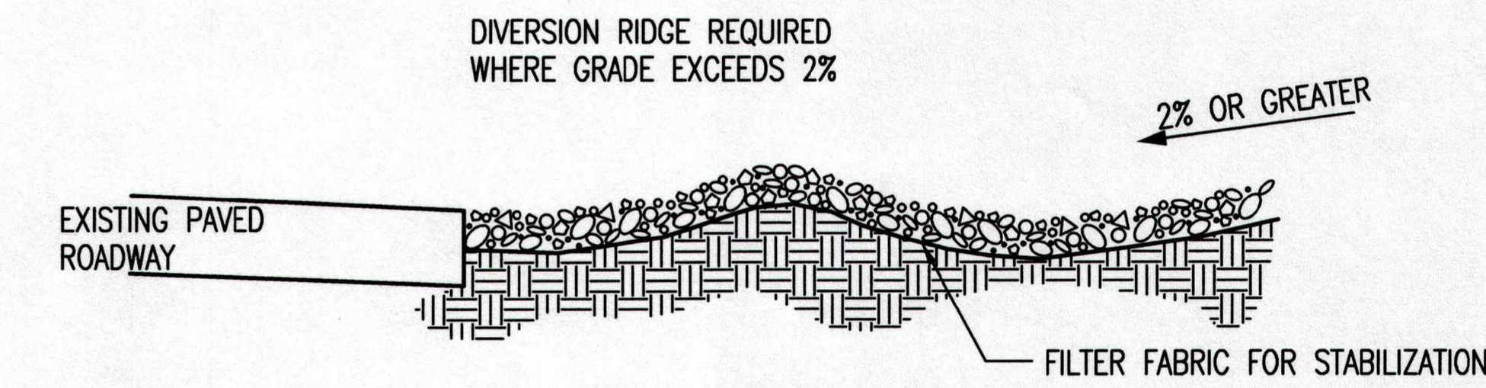


NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

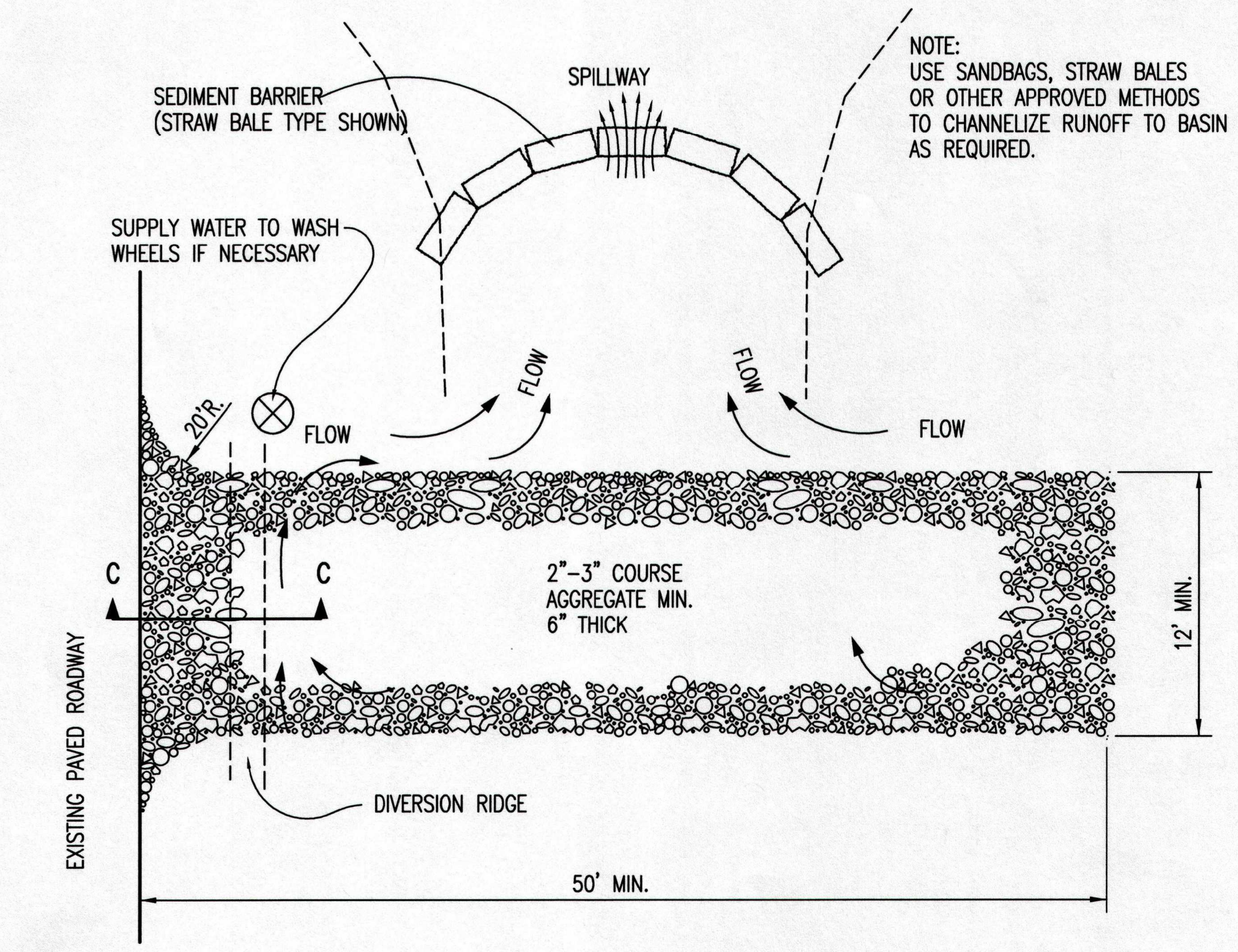
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

GARY L. JANZEN PROFESSIONAL ENGINEER KANSAS 05/20/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	

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

SHEET

SW-501

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

Saved: 09-22-2016 3:28:01 PM by CSL
Plot Scale: 1:1 11-30-2016 8:27:54 AM by CSL
U:\Wichita-Civil\2016\160551\000\Main\Drawings\160551-000-C5-04-EROSION CONTROL DETAILS

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C5.04 OF: X

PRINTS ISSUED

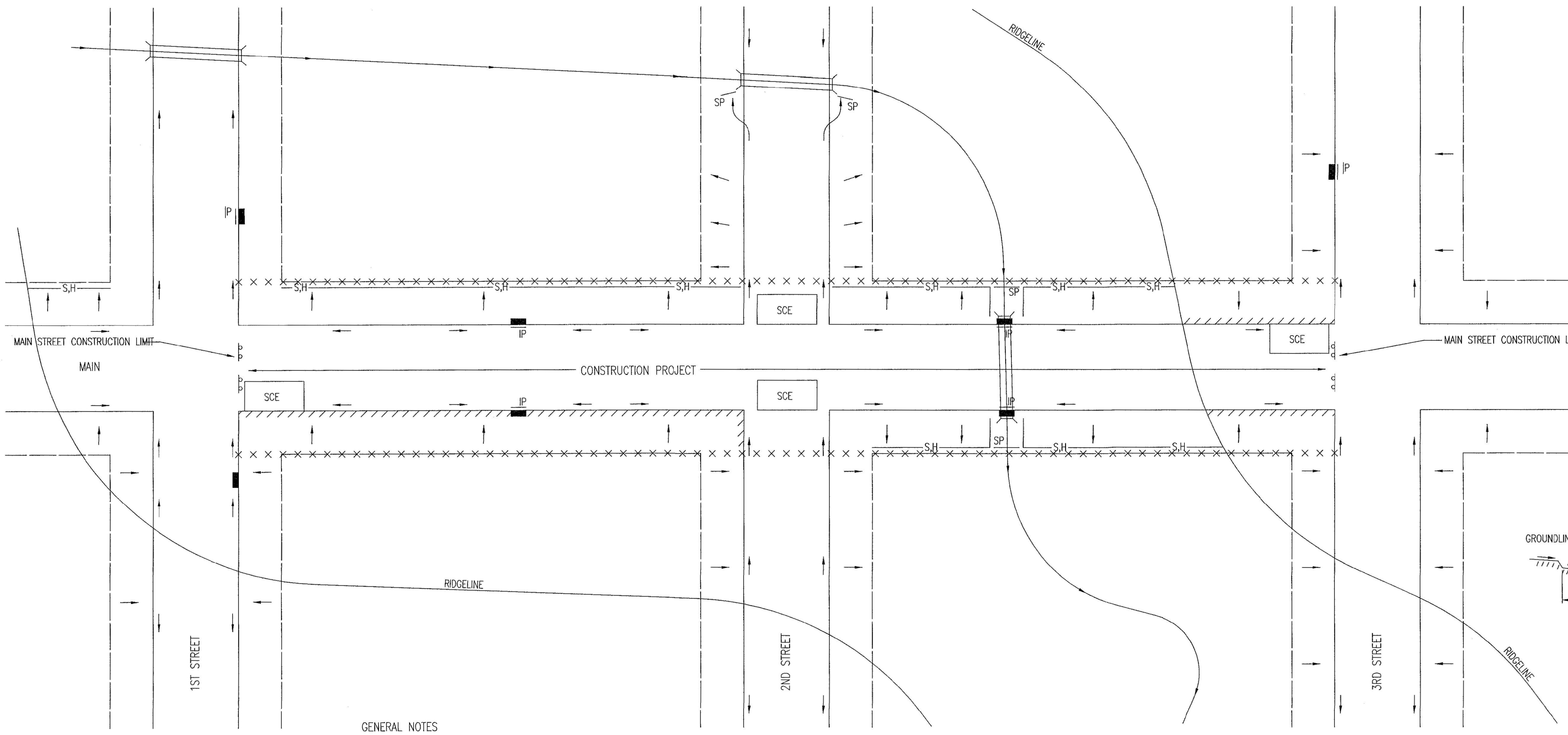
DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

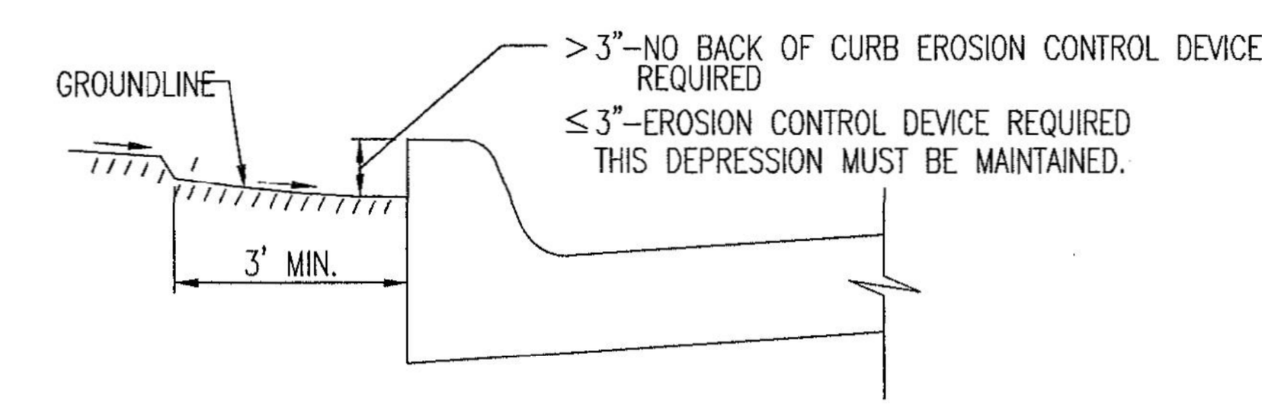
HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.





CURB BACKFILL DETAIL

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

LEGEND

Symbol	Description
— — —	R-O-W LIMITS
→	DRAINAGE FLOW PATH
× × × × ×	R/W LIMIT WITHIN CONSTRUCTION LIMIT
■	STORM WATER INLETS
IP	INLET PROTECTION
—S,H—	SILT FENCE OR HAY BALE BARRIER
SP	STREAM PROTECTION
SCE	STABILIZED CONSTRUCTION ENTRANCE
///////	BACK OF CURB PROTECTION

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
   A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs – BACK OF CURB SEDIMENT BARRIER DETAILS)
   B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
   C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
   D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER 06/05/15

REVISION: JUNE 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STREET IMPROVEMENT PROJECTS

CITY ENGINEER		
GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET

SW-504

Saved: 09-22-2016 3:27:10 PM by: CSL
Plot Scale: 1:1 11-30-2016 8:28:11 AM by: CSL
U:\Wichita-Civil\2016\160551\000\Main\Drawings\160551-000-C5-05-EROSION CONTROL DETAILS

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

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture
LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

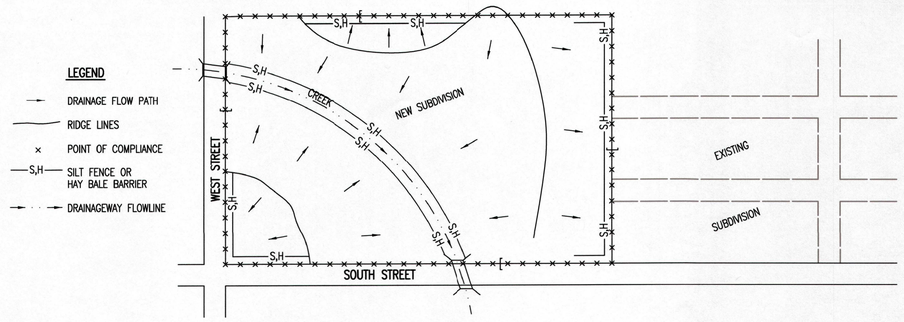
CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
EROSION CONTROL DETAILS

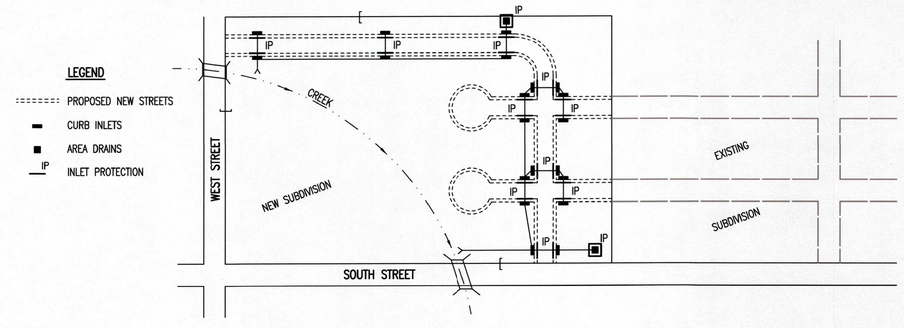
SHEET NUMBER:
C5.05 OF: X

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



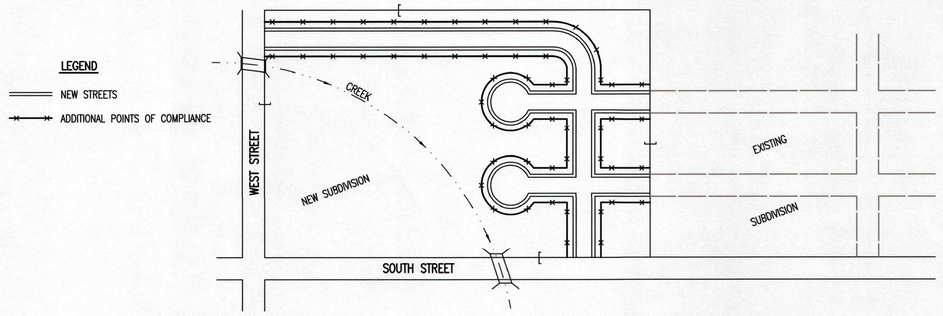
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 2 – INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

PHASE 3 – STREET CONSTRUCTION

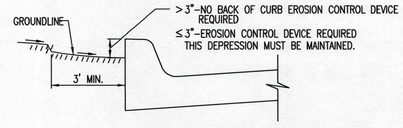


1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
   A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
   B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
7. FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
9. A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.

SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL



CURB BACKFILL DETAIL (STREET CONSTRUCTION ONLY)

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
05.12.13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SUBDIVISION DEVELOPMENT PROCESS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2028 PPW	(607853)	

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

SHEET

SW-505

PRINTS ISSUED

DATE	PURPOSE	NO.
08.25.16	30% PROGRESS SET	
09.15.16	60% PROGRESS SET	
10.13.16	90% PROGRESS SET	
11.10.16	BID/PERMIT SET	
11.22.16	ADDENDUM #1	1
12.07.16	CITY COMMENTS	2

HAMPTON INN
CADILLAC LAKE
WICHITA, KANSAS

Hampton

LK Architecture
Architecture • Engineering • Planning • Interior Design • Landscape Architecture

LK Architecture, Inc.©
345 Riverview Wichita, KS 67203
T 316.268.0230 F 316.268.0205

CONTACT: PEC
DRAWN: PEC
CHECKED: PEC

PROJECT NUMBER:
15433

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C5.06 OF: X

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