

CITY OF WICHITA, KANSAS

C.O.W. PROJECT NO. 448-90646

O.C.A. NO. 636327

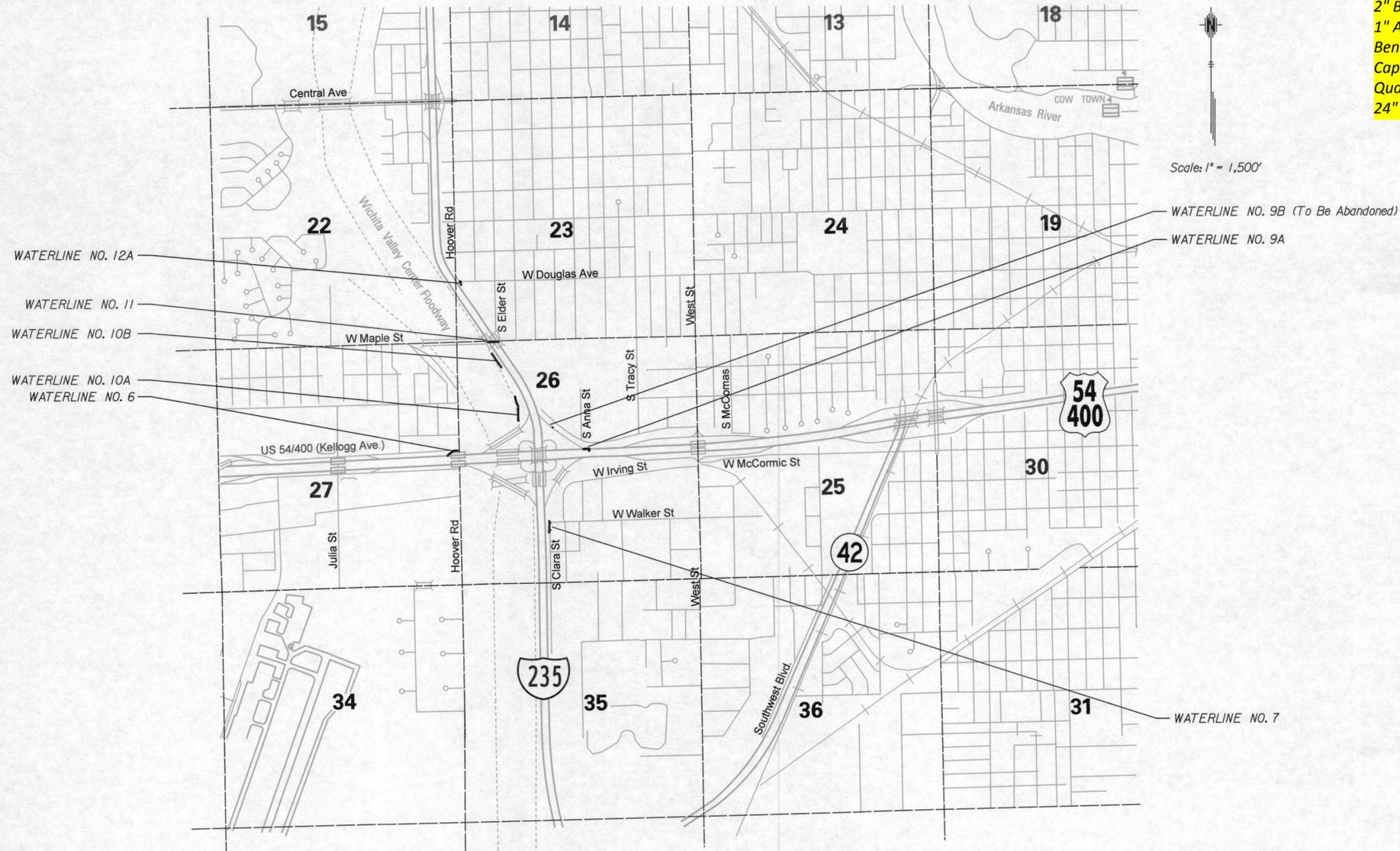
WATER MAIN RELOCATIONS - PHASE 1 KELLOGG & I-235 INTERCHANGE - RED PROJECT

Dondlinger - Contractor
 G. Baalman - City of Wichita, Field Project Engineer
 L. Wilson - City of Wichita, Inspector
 As-built
 Release Date: 7/10/2015
 pdf: APRosas 2/3/2016

8" Anchored Valve Assembly - American
 6" Fire Hydrant Assembly - American
 6" Tee - Tyler
 2" Blow off Assembly
 1" Air Release Valve Assembly
 Bends (22.5°, 45°, 90°) - Tyler
 Caps (12", 8", 6") - Tyler
 Quantum Coupling - Ford
 24" Steel casing - 225 lf

INDEX OF SHEETS

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Scale: 1" = 1,500'



PREPARED BY
TranSystems
 245 N. WACO, SUITE 222
 WICHITA, KANSAS 67202
 MAIN: 316-303-3000
 FAX: 316-303-0156

GENERAL NOTES

- The Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to excavation or working adjacent to utilities.
- The Contractor shall notify pipeline companies at least forty-eight (48) hours in advance of any work being performed over or adjacent to existing pipelines.
- The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days notice prior to start of construction
- All water mains and appurtenances shall be installed in accordance with City of Wichita, Kansas, Standard Specifications for Water Main Installations No. 14533.
- Contractor shall not start work on the project until the Project Inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.
- 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 their construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- Utility service lines, poles, gas valve boxes, meter, et cetera 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.
- 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. Project Inspector must ascertain that any valve closed by the Contractor is reopened. Contractor will be permitted to operate water valves only when the Project Inspector assigned to the project is present.
- A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required, except when such saw cuts are within three (3) feet of an existing joint the limits of removal shall be extended to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as Subsidiary to the removal of the surface or pavement.
- The bid item "Fire Hydrant Installation" shall include installation of a New Fire Hydrant, thrust blocking, fittings, and all necessary adjustments required to bring the hydrant into complete and working order.
- Each bidder shall visit the site of the project before submitting their proposal for the work so that they may inform themselves as to the existing field conditions and the obstacle which might be encountered.
- Interurban traffic generated outside the project area and local business or residential traffic generated within the project area is to be carried through construction as further promulgated by project special provisions. The Contractor shall utilize barricades, signs, guards, and flagmen in accordance with the Manual on Uniform Traffic Control Devices.
- Rubble from the removal of miscellaneous structures including pavement, pipes, and etc. shall be disposed of on sites provided by the Contractor. These sites shall also be approved of by the Engineer as to suitability, appearance, and site location. Location that, in the opinion of the Engineer, 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 water of the United States or wetlands is subject to U.S. Corps of Engineers permitted regulations. Any material buried or stockpiled beyond approved construction limits may require archaeological investigations unless buried in a previously approved disposal location.
- Temporary Blowoff Valves necessary to flush lines at existing water line tie-ins shall not be paid for directly, but shall be considered INCIDENTAL to other items in the bid.
- Connections to existing water lines shall not be paid for directly, but shall be considered INCIDENTAL to other items in the bid.
- Contractor to coordinate with the United States Postal Service prior to any temporary or permanent relocation of existing mailboxes.
- Contractor to follow all current City of Wichita erosion control standards.
- Contractor to maintain access to all driveways at the end of each construction day, unless, prior approval from the Project Inspector.
- The Contractor shall understand that Utility Companies may be relocating their facilities at the same time this project is under construction, or that utilities may have already been relocated to new locations and that additional coordination with Utility Companies may be required. The Contractor shall be required to work around existing utilities within the right-of-way.
- Taps 12" or larger shall be done by the Contractor, taps 12" or smaller will be done by the City of Wichita unless otherwise noted in the plans.

UTILITY OWNERS

Various Communication Lines On Project
From \pm I-235 Sta. 171+58.61 To 306+25.26
Owned By: AT&T
c/o Jason Edwards
Manager Engineering Design
154 N. Broadway, Room 210
Wichita, KS 67202
Phone: 316-268-2008
Emergency: 1-800-870-8390

Fiber Optic/Television/Communication Lines On Project
From \pm I-235 Sta. 172+09.52 To 306+28.32
Owned By: Cox Communications
c/o James Walburn, Right-of-Way Agent I
901 George Washington Blvd.
Wichita, KS 67211
Phone: 316-260-7491
Emergency: 316-262-0661

Gas Lines On Project
From \pm I-235 Sta. 171+97.58 To 306+14.58
Owned By: Black Hills Energy (Formerly Aquila Gas)
c/o Kelly Kraus
Construction Coordinator
1611 S. Hoover
Wichita, KS 67209
Phone: 316-941-1628
Emergency: 1-800-527-0357

Gas Lines On Project
From \pm I-235 Sta. 171+92.77 To 221+08.31
Owned By: Kansas Gas Service
c/o Jim Coe
Senior Technical Analyst
1021 East 26th Street North
Wichita, KS 67219-4308
Phone: 316-832-3126
Emergency: 1-888-482-4950

Electric Lines On Project
From \pm I-235 Sta. 157+28.12 To 310+23.10
Owned By: Westar Energy
c/o Miles Capps
Manager Of Distribution Design
P.O. Box 208
Wichita, KS 67201
Phone: 316-261-6824
Emergency: 316-383-8600

Electric And Fiber Optic Lines On Project
From \pm I-235 Sta. 161+20.58 To 309+96.72
Owned By: KDOT
c/o Ben Koerner
3200 E. 45th St. North
Wichita, KS 67220

All Water Lines On Project
Owned By: City Of Wichita,
Water Utilities System Planning
c/o Greg Lolley
Engineering Technician II
City Hall, 455 N. Main, 8th Floor
Wichita, KS 67202
Phone: 316-268-4555
Emergency: 316-262-6000

All Storm Water Sewers On Project
Owned By: The City Of Wichita
c/o Kelly Fleming
Storm Water Engineer
City Hall, 455 N. Main, 8th Floor
Wichita, KS 67202
Phone: 316-268-4545
Emergency: 316-262-6000

All Traffic Signals & Lines On Project
Owned By: City Of Wichita
c/o Paul Gunzelman
Traffic Engineer
City Hall, 455 N. Main, 7th Floor
Wichita, KS 67202
Phone: 316-268-4393
Emergency: 316-262-6000

All Sanitary Sewer Lines On Project
Owned By: City Of Wichita,
Water Utilities System Planning
c/o LaDonna Lawrenz
City Hall, 455 N. Main, 8th Floor
Wichita, KS 67202
Phone: 316-268-4329
Emergency: 316-262-6000

Utility Notes:

Visual indications of utilities are as shown. Underground locations shown, as furnished by their lessors, are approximate and should be verified in the field at the time of construction. For actual field locations of underground utilities, call 1-800-344-7233. Verification of utilities is the Contractor's responsibility.



RECAPITULATION OF QUANTITIES

BID ITEM	QUANTITY	UNIT
Mobilization	1	LS
Site Clearing	1	LS
Site Restoration	1	LS
Seeding	1	LS
Erosion Control BMP (Silt Fence)	1,280	LF
Erosion Control BMP (Erosion Control Mat)	200	SY
Erosion Control BMP (Curb Inlet Protector)	4	EA
Traffic Control	1	LS
4" Waterline	916	LF
8" Waterline	556	LF
12" Waterline (Restrained)	424	LF
24" Steel Casing Pipe (Open Cut)	225	LF
8" Anchored Valve Assembly	1	EA
Fire Hydrant Assembly	1	EA
Fire Hydrant Assembly (Removed)	1	EA
Air Release Assembly	1	EA
Blow Off Valve	1	EA
Short Service Replacement	2	EA
Sand, Fill, Flush & Vibrate	1,442	LF
Pavement Removed & Replaced	486	LF
Concrete Curb & Gutter Removed & Replaced	20	LF
Gravel Streets/Drives Removed & Replaced	881	LF
Pipe Removed	148	LF

PROJECT SURVEY CONTROL

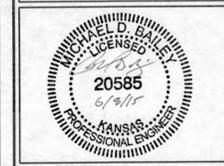
Project Ground Coordinates x 0.99988642 (CAF) - NAD 1983(HARN) State Plane Coordinates

Vertical Datum:
Sea Level Datum of 1988
Monuments Held for Vertical Datum are the following:
1. "Kellogg No 3" 1988 Elev. = 1294.32
2. "Kellogg No 1" 1988 Elev. = 1339.67
3. "X 348" 1988 Elev. = 1331.34
4. "W348" 1988 Elev. = 1326.76
5. "Nevada RM2" 1988 Elev. = 1356.94

SUMMARY OF WATERLINE ITEMS
(For Information Only)

WATERLINE LINE NO.	PIPE 4" WL L.F.	PIPE 8" WL L.F.	PIPE 12" WL RESTRAINED L.F.	24" STEEL CASING PIPE L.F.	8" VALVE ASSEMBLY ANCHORED EA.	FIRE HYDRANT ASSEMBLY EA.	REMOVE FH ASSEMBLY EA.	AIR RELEASE ASSEMBLY	BLOW OFF VALVE	2" SHORT SERVICE WL
Line 6	-	261.16	-	-	-	-	-	1	-	-
Line 7	-	246.13	-	-	-	-	-	-	-	2
Line 9A	-	10.00	175.73	-	1	-	-	-	-	-
Line 9B	-	-	-	-	-	-	-	-	1	-
Line 10A	542.08	-	-	-	-	-	-	-	-	-
Line 10B	374.06	-	-	-	-	-	-	-	-	-
Line 11	-	-	248.62	225.00	-	-	-	-	-	-
Line 12A	-	38.80	-	-	-	1	1	-	-	-
Total	916.14	556.09	424.35	225.00	1	1	1	1	1	2

TranSystems
245 NORTH WACO
SUITE 222
WICHITA, KANSAS 67202
PHONE: 316-303-3000
FAX: 316-303-0196



CONSULTANTS:

WATER MAIN RELOCATIONS PHASE - 1
KELLOGG & I-235 INTERCHANGE
RED PROJECT

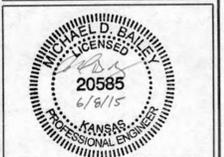
WICHITA, KANSAS
CITY OF WICHITA

REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: P125140031
SCALE: NTS
DATE: 6/8/2015
DESIGNED BY: DAN
DRAWN BY: DAN
CHECKED BY: MDB

SHEET TITLE:
GENERAL NOTES & SUMMARY OF QUANTITIES

SHEET NO.
2
SHEET 2 OF 22



CONSULTANTS:

WATER MAIN RELOCATIONS - PHASE 1
KELLOGG & I-235 INTERCHANGE
RED PROJECT
WICHITA, KANSAS
CITY OF WICHITA

Table with 3 columns: REVISIONS, MARK, DATE. The table is currently empty.

PROJ NO: P125140031
SCALE: NTS
DATE: 6/8/2015
DESIGNED BY: DAN
DRAWN BY: DAN
CHECKED BY: MDB

SHEET TITLE:
COORDINATE DATA TABLE

SHEET NO.
3
SHEET 3 OF 22

WATERLINE PROJECT CONTROL AND COORDINATE DATA

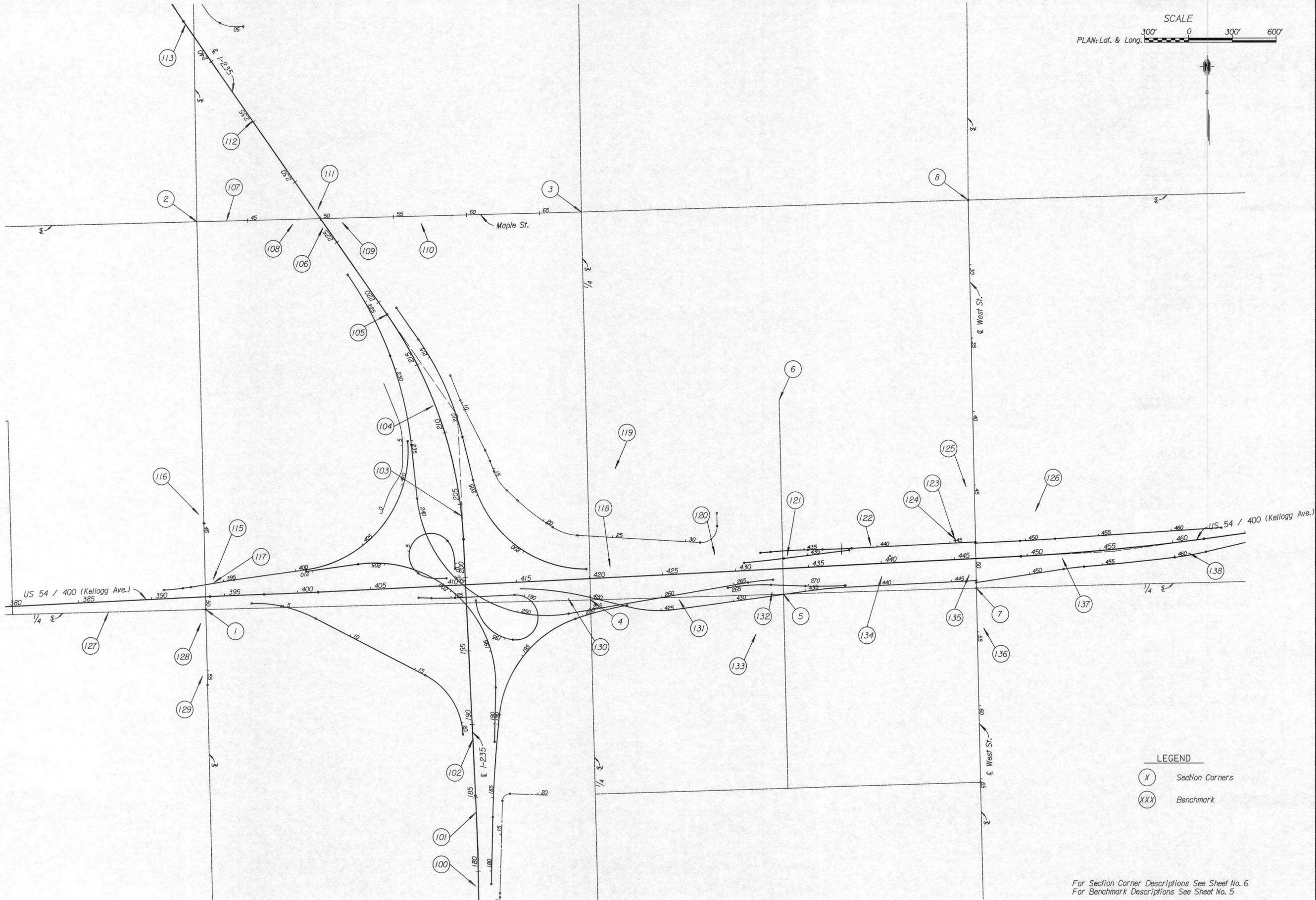
Main data table for Waterline Project Control and Coordinate Data. Columns include Point No., Baseline Station, Offset, Side, Description, Northing, and Easting. It lists various waterline segments and their coordinates.

WATERLINE PROJECT CONTROL AND COORDINATE DATA

Main data table for Waterline Project Control and Coordinate Data. Columns include Point No., Baseline Station, Offset, Side, Description, Northing, and Easting. It lists various waterline segments and their coordinates.

For Location Map See Sheet No. 4
For Section Corner Descriptions See Sheet No. 5
For Benchmark Descriptions See Sheet No. 6

SUSERS
08/2015
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- 1) E. 1/4 Cor. Sec. 27 T27S RIW
Project Coordinate: N 1680743.28 E 1628689.36
1) Found ** Cut At Centerline Of Hoover Street
2) 86.94' Rt. (S) & U.S. Highway 54/400 Sta. 393+69.73 N.W. & = 91°25'36"
3) South Face Of U.S. Highway 54/400 Bridge Over Hoover Street (Near #5521 Hoover) 18.6' N.
4) Found ** Cut On Top Of East Retaining Wall 14.0' E.
5) Found ** Cut On Top Of West Retaining Wall 14.6' W.
6) Found ** Cut On Top Of West Retaining Wall 20.1' S.W.
- 2) N.E. Cor. Sec. 27 T27S RIW
Project Coordinate: N 1683382.48 E 1628628.20 (Sec. Cor. Coords)
1) Set 2" Aluminum Cap stamped *TRANSYSTEMS KSL537 40 O/S WIT COR* Epoxied Into South Sidewalk Deck Of Maple Street Bridge Over Big Ditch As Witness Corner For N.E. Corner 27-27-1
2) 2,552.96' Lt. (N.) & U.S. 54/400 Sta. 393+69.73 N.E. & = 88°34'24" (Sec. Corner) (Ties to Witness Corner)
3) Set ** Cut On Top Of Bridge Hubguard On North Side Of Sidewalk Of Maple Street Bridge Over Big Ditch 19.9' E.N.E.
4) Set ** Cut On Sidewalk Of Maple Street Bridge Over Big Ditch 29.3' E.
5) Set ** Cut On Sidewalk Of Maple Street Bridge Over Big Ditch 28.4' W.
6) Set ** Cut On Top Of Bridge Hubguard On North Side Of Sidewalk On Maple Street Bridge Over Big Ditch 23.7' W.N.W.
7) True Section Corner Position 40.0' N.
- 3) N. 1/4 Cor. Sec. 26 T27S RIW
Project Coordinate: N 1683446.78 E 1631259.39
1) Found 3/4" Pipe in Thimble at intersection of Maple Street and Anna Street
2) 2,496.71 Lt. (N) & U.S. 54/400 Sta. 420+04.19 N.E. & = 88°36'52"
3) Found ** Cut in Top of Southwest Corner of a Concrete Curb Inlet in Northeast Corner of Maple Street and Anna Street 52.3' N.E.
4) Found ** Cut in East End of Concrete Median 63.3' S.E.
5) Found ** Cut in North End of Bull Nose Median 46.5' S.
6) Found ** Cut in West End of Concrete Median 66.0' S.E.
- 4) Center Cor. Sec. 26 T27S RIW
Project Coordinate: N 1680805.78 E 1631322.48
1) Found Bent 3/4" Inside Diameter Iron Pipe +/- 0.3' Below Ground Between Abandoned Railroad Tracks And On-Ramp To Eastbound U.S. Highway 54/400 From Northbound I-235
1) 145.06' Rt. (S) & U.S. 54/400 Sta. 420+04.19 S.E. & = 91°23'08"
2) Set Mag Nail And Shiner In South Shoulder Of On Ramp To Eastbound U.S. Highway 54/400 From Northbound Interstate 235 72.8' N.W.
3) Set ** Cut On Northeast Corner Of Concrete Pad 81.4' S.W.
4) Set Mag Nail And Shiner In North Face Of 24 Inch Diameter Cottonwood Tree 109.7' S.W.
5) Set Mag Nail And Shiner In Northern Most 10 Inch Diameter Cedar Tree 68.2' S.E.
- 5) S. 1/16 Cor. N.E. 1/4 Cor. Sec. 26 T27S RIW
Project Coordinate: N 1680840.72 E 1632643.08
1) Found 3/4" Inside Diameter Iron Pipe +/- 1.2' Below Ground
2) 173.62' Rt. (S) & U.S. 54/400 Sta. 433+25.87 S.E. & = 91°27'43"
3) Set Mag Nail And Shiner In Southwest Face Of Power Pole 71.5' N.E.
4) Set Mag Nail And Shiner In Southwest Face Of Power Pole 27.9' N.N.E.
5) Set Mag Nail And Shiner In Southeast Face Of Power Pole With Transformer 62.8' N.W.
6) Found *L* Cut In Southwest Corner Of Concrete Sprinkler Pad 79.7' N.W.
- 6) Center Cor. N.E. 1/4 Sec. 26 T27S RIW
Project Coordinate: N 1682161.80 E 1632613.29
1) Set 3/8" Bar With 2" Aluminum Cap Stamped *TRANSYSTEMS KSL537 CTR NE 1/4 26-27-1* At Intersection Of Taft Street And Tracy Street
2) 1,147.80' Lt. (N) & U.S. 54/400 Sta. 433+25.87 N.E. & = 88°32'17"
3) Set ** Cut In Bull Nose Of Island In Tracy Street 33.2' N.
4) Set Mag Nail And Shiner In Northwest Face Of Power Pole In Southeast Quad At Intersection Of Taft Street And Tracy Street 68.0' S.E.
5) Set ** Cut In Bull Nose Of Island In Tracy Street 34.6' S.
6) Set ** Cut In Bull Nose Of Island In Taft Street 50.0' W.
- 7) E. 1/4 Sec. Cor. Sec. 26 T27S RIW
Project Coordinate: N 1680876.42 E 1633963.91
1) Found 3/4" Bar 0.5' Below Surface Of Asphalt Roadway Of Northbound West Street South Of Abandoned Railroad Tracks
2) 201.45' Rt. (S.) & U.S. 54/400 Sta. 446+47.84 S.E. & = 91°32'01"
3) Found ** Cut On West Side Of Median East Side Of Northbound West Street 53.7' E.N.E.
4) Found ** Cut On West Side Of Median East Side Of Northbound West Street 43.4' E.S.E.
5) Found ** Cut On Top Of Curb East Side Of Lane That Leads To Eastbound U.S. Highway 54/400 Ramp 102.2' S.E.
6) Found ** Cut On South Side Of Median On Bull Nose Of Median 56.5' S.
- 8) N.E. Sec. Cor. Sec. 26 T27S RIW
Project Coordinate: N 1683518.13 E 1633907.64
1) Found 3/4" Iron Pipe In Thimble At Intersection Of Maple Street And West Street
2) 2440.87' Lt. (N.) & U.S. 54/400 Sta. 446+47.84 N.E. & = 88°27'59"
3) Set ** Cut At South Corner Of 4' By 4' Concrete Structure For Traffic Signal Manhole 77.7' N.E.
4) Set ** Cut At S.W. Corner Of 4' By 4' Concrete Structure For Traffic Signal Manhole 83.0' S.E.
5) Set ** Cut At North Corner Of 4' By 4' Concrete Structure For Traffic Signal Manhole 90.3' S.W.
6) Set ** Cut At S.E. Corner Of 4' By 4' Concrete Structure For Traffic Signal Manhole 87.0' N.W.
- 9) N. 1/4 Sec. Cor. Sec. 25 T27S RIW
Project Coordinate: N 1683580.58 E 1636533.51
1) Set 5/8" Bar With 2" Aluminum Cap At The Intersection Of Sheridan And Maple. Stamped *TRANSYSTEMS KSL5 37-NI*4S25 T27S RIW*
2) 2,227.56' Lt. (N.) & U.S. 54/400 Sta. 472+88.41 N.W. & = 96°28'58" 31.5' N.E.
3) Set ** Cut On Top Of Curb 36.8' S.E.
4) Set ** Cut On Sidewalk 36.3' S.S.E.
5) Center Of Telephone Manhole Lid 65.6' S.S.W.
6) Found Nail And Shiner In N.W. Face Of Power Pole
- 10) Center Sec. Cor. Sec. 25 T27S RIW
Project Coordinate: N 1680933.60 E 1636593.78
1) Found Four Notches On Manhole Lid. Intersected The Four Notches For Location Of Corner
2) 420.11' Rt. (S.) & U.S. 54/400 Sta. 472+88.41 S.W. & = 83°31'02"
3) Found ** Cut On Concrete Collar Of Manhole 48.4' N.E.
4) Found Mag Nail At S.W. Face Of Power Pole 58.4' S.E.
5) Found Mag Nail At North Face Of Power Pole 41.7' S.W.
6) Found ** Cut At East Side Of 24" Diameter Concrete Base For Metal Light Pole 43.6' W.
- 11) W. 1/4 Cor. Sec. 35 T27S RIW
Project Coordinate: N 1675476.21 E 1628832.01
1) Found 1/2" I.D. Iron Pipe In Thimble +/- Centerline Hoover Road Northeast Of Cessna Complex.
2) 1,766.01' Lt. & I-235 Sta. 145+54.98, N.W. & = 90°36'14"
3) Found Top Center Of Telephone Pedestal 50.9' E.S.E.
4) Found 60 Penny Nail West Face Fence Corner Post Which Leans Southeast. 93.6' S.E.
5) Found Top Center Valve Nut Fire Hydrant. 59.7' W.S.W.
6) Found Nail And Shiner South Face Of Power Pole (Middle Of Three Poles). 48.4' W.
- 12) Center Sec. Cor. Sec. 35 T27S RIW
Project Coordinate: N 1675535.46 E 1631431.84
1) Found 1/2" Iron Bar With Savoy CLS 141 Cap +/- 14' East Of Centerline Anna Street.
2) 834.50' Rt. & I-235 Sta. 145+54.98, N.E. & = 89°23'46". 1.3' E.
3) To Near Face Fence Corner Post. 84.2' S.S.W.
4) Found Top Center Valve Nut Fire Hydrant. 29.2' W.
5) Found Nail With Bottle Cap North Face Of Power Pole. 30.1' W.
6) Found 1/2" I. D. Iron Pipe Just Below Ground Surface.
- 13) S.E. Cor. Sec. 27 T27S RIW
Project Coordinate: N 1678113.58 E 1628751.20
1) Found 3/4" Pipe In Thimble At Intersection Of Harry Street And Hoover Road
2) 1,814.47' Lt. (W) & I-235 Sta. 171+87.90, N.W. & = 90°25'20"
3) Found Nail And Shiner In North Face Of Power Pole 57.3' N.E.
4) Found ** Cut In Top Of Curb At The Return 38.2' S.E.
5) Found Top Center Bolt On Fire Hydrant 70.8' S.S.W.
6) Found ** Cut On Top Of Curb At The Return 36.5' S.W.
- 14) S. 1/4 Cor. Sec. 26 T27S RIW
Project Coordinate: N 1678165.30 E 1631387.84
1) Found 2" Pipe With 1/2" Bar +/- 0.4' Below Gravel Surface At Centerline Of Harry Street
2) 822.68' Rt. (E) & I-235 Sta. 171+87.90, N.E. & = 89°34'40"
3) Set Nail And Shiner In East Face Of Fence Corner Post Near Base 31.0' N.
4) Found Top Of *T* Fitting For Gas Meter Pipe Above Ground (Set ** Cut) 72.8' E.S.E.
5) Found Nail And Washer In East Face Of Power Pole 26.3' S.
6) Found Nail And Shiner In East Face Of Power Pole Near Base 26.3' S.



CONSULTANTS:

WATER MAIN RELOCATIONS - PHASE 1
KELLOGG & I-235 INTERCHANGE
RED PROJECT



REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: P125140031
SCALE: NTS
DATE: 6/8/2015
DESIGNED BY: DAN
DRAWN BY: DAN
CHECKED BY: MDB

SHEET TITLE:
SECTION CORNER DESCRIPTIONS

SHEET NO. 5
SHEET 5 OF 22

For Location Map See Sheet No. 4

- 100 B.M. *18 Found "L" In Southwest Corner Of Headwall For Culvert To West Under I-235 ± 100' South Of Milepost 6.6
N 1678860.7818 E 1630536.3986
ℓ I-235 Sta. 178+99.95, 19.71' Lt. Elev. 1302.76'
- 101 B.M. *19 Found "L" In Southwest Corner Of Center Drain Inlet Just North Of Maintenance Turnaround At ± Milepost 6.7
N 1679361.2414 E 1630539.3569
ℓ I-235 Sta. 184+00.34, 1.36' Lt. Elev. 1308.96'
- 102 B.M. *20 Found "L" In Southwest Corner Of Center Drain Inlet JuSt. South Of Highway Sign For "EXIT 7A/7B" Over Northbound I-235
N 1679857.8963 E 1630516.0294
ℓ I-235 Sta. 188+97.55, 1.23' Lt. Elev. 1324.85'
- 103 B.M. *25 Found "M" At East Side Of ℓ I-235 Inlet ± 350' North Of Kellogg Ave. Bridges And Just South Of Maintenance Crossover
N 1681376.7222 E 1630440.0775
ℓ I-235 Sta. 204+18.36, 0.23' Lt.
ℓ U.S. 54/400 Sta. 411+46.72, 467.67' Lt. Elev. 1317.34'
- 104 B.M. *26 Found "L" On Southwest Corner Headwall For Culvert Under Southbound I-235 ± 150' North Of Milepost 7.2
N 1682127.7783 E 1630245.1748
ℓ I-235 Sta. 211+98.45, 14.50' Lt Elev. 1305.42'
- 105 B.M. *27 Found "L" On Southwest Corner Of Center Inlet ± 500' South Of Maple St. And Just North Of Maintenance Crossover.
N 1682748.6821 E 1629928.0527
ℓ I-235 Sta. 218+99.25, 2.36' Lt. Elev. 1317.02'
- 106 B.M. *28 Found NGS Disk "X348 1972" On Southeast Wingwall For Southbound I-235 Bridge Over Maple St..
N 1683340.4536 E 1629490.7956
ℓ I-235 Sta. 226+34.78, 21.94' Lt. Elev. 1331.34'
- 107 B.M. *28A Found "City Of Wichita Benchmark" On Top Center Of East Abutment Headwall Between Bridges For Maple St. Over Wichita Valley Center Floodway (Big Ditch)
N 1683387.9627 E 1628831.1113
ℓ I-235 Sta. 230+51.50, 535.54' Lt. Elev. 1320.45'
- 108 B.M. *28B Set Railroad Spike In North Face Of Wooden Light Pole Just South Of Maple St. And ± 200' West Of ℓ Of I-235. Pole Is Located North Northwest Of Brick Building That Is South Of Maple
N 1683364.8021 E 1629284.2157
ℓ I-235 Sta. 227+73.04, 177.35' Lt. Elev. 1316.82'
- 109 B.M. *28C Set "U" On North Edge Of Retaining Wall ± 5.76' From End Of Wall And ± 5.18' from S. Back Of Curb On Maple St.
N 1683377.2062 E 1629623.0034
ℓ I-235 Sta. 225+89.20, 107.49' Rt. Elev. 1308.52'
- 110 B.M. *28D Set "M" On Bullnose Of Median Of Entrance To Towne West Square South Of Maple And ± 546' East ℓ I-235
N 1683369.2492 E 1630163.1826
ℓ I-235 Sta. 222+73.34, 545.77' Rt. Elev. 1304.73'
- 111 B.M. *29 Set "M" On Top Of Wingwall In Northwest Corner Of Northbound I-235 Bridge Over Maple St..
N 1683465.7851 E 1629456.2482
ℓ I-235 Sta. 227+57.31, 21.51' Rt. Elev. 1329.11'
- 112 B.M. *30 Found "M" On Top Of Center Drain Inlet ± Center Of West Side Of Box And Just South Of Maintenance Crossover At Milepost ± 7.7
N 1684068.0493 E 1629007.5385
ℓ I-235 Sta. 235+08.00, 1.45' Lt Elev. 1317.49'
- 113 B.M. *31 Found "M" On Top Of Center Drain Inlet Just South Of Center Of West Side Of Box And ± 6.0' North Of Milepost 7.8
N 1684723.9892 E 1628549.3170
ℓ I-235 Sta. 243+08.14, 1.47' Lt Elev. 1305.24'
- 114 B.M. *32 Found "M" On Top Of Center Drain Inlet On Center Of West Side Of Box And ± 150' North Of Highway Sign In Center Of I-235
N 1685257.8935 E 1628278.4100
ℓ I-235 Sta. 249+08.77, 1.26' Lt Elev. 1306.29'
- 115 B.M. *51 Found "L" Southwest Corner Concrete Planter Around "La Quinta" Sign In Northeast Quad U.S. 54/400/ Kellogg And Hoover.
N 1680945.7430 E 1628738.7763
ℓ U.S. 54/400 Sta. 394+26.52, 112.95' Lt. Elev. 1308.83'
- 116 B.M. *51A Set Railroad Spike In South Face Of Power Pole Northwest Quadrant Hoover And Hendryx
N 1681390.5208 E 1628640.7216
ℓ U.S. 54/400 Sta. 393+50.08, 561.91' Lt. Elev. 1305.64'
- 117 B.M. *52 Set "M" At Top Of Retaining Wall Near West End In Northeast Quadrant U.S. 54/400/Kellogg And Hoover.
N 1680926.5944 E 1628743.3140
ℓ U.S. 54/400 Sta. 394+30.14, 93.61' Lt. Elev. 1312.16'
- 118 B.M. *58 Set "U" West End Retaining Wall North side U.S. 54/400/Kellogg And In Northwest Quadrant Anna/Kellogg Dr.
N 1681028.8102 E 1631456.3408
ℓ U.S. 54/400 Sta. 421+45.10, 71.33' Lt. Elev. 1306.18'
- 119 B.M. *58A Set "M" Front Face Center Curb Inlet In Southeast Quadrant Anna And Access Road around South Side Towne West Square Parking Lot
N 1681700.0816 E 1631490.8072
ℓ U.S. 54/400 Sta. 422+11.78, 740.17' Lt. Elev. 1303.09'
- 120 B.M. *59 Found "M" On Bull Nose at South End Median In North Side Of Intersection Of Kellogg Dr. And Young St.
N 1681111.4696 E 1632172.5764
ℓ U.S. 54/400 Sta. 428+64.48, 119.48' Lt. Elev. 1305.91'
- 121 B.M. *60 Set "M" East End Retaining Wall North Side U.S. 54/400/Kellogg Between On-Ramp To Westbound U.S. 54/400/Kellogg And Westbound Kellogg Dr.
N 1681102.9216 E 1632668.1595
ℓ U.S. 54/400 Sta. 433+59.08, 87.13' Lt. Elev. 1306.96'
- 122 B.M. *61 Set "U" On North Side Top Of Abandoned Light Pole Base In Northwest Quadrant Florence And W. Kellogg Dr.
N 1681166.9888 E 1633240.9828
ℓ U.S. 54/400 Sta. 439+34.32, 123.60' Lt. Elev. 1305.73'
- 123 B.M. *62 Set "U" On North Side Center Of Concrete Pad For "City Of Wichita" Irrigation Control Station In Northwest Quadrant W. Kellogg Dr. And West St.
N 1681212.8130 E 1633814.1830
ℓ U.S. 54/400 Sta. 445+09.06, 141.83' Lt. Elev. 1304.86'
- 124 BM *62 DATUM Found "U" Cut On North Side Center Of Concrete Pad For "City Of Wichita" Irrigation Control Station In Northwest Quad. W. Kellogg Dr. And West Street.
N 1681212.8130 E 1633814.1830
ℓ U.S. 54/400 Sta. 445+09, 141.83' Lt. Elev. 1304.86'
- 125 B.M. *62A Set "U" East Face Of Cantilever Sign Base For "East U.S. 54" Sign Over Southbound West St. In Front Of Starbucks 583 S. West St.
N 1681566.3145 E 1633893.1291
ℓ U.S. 54/400 Sta. 446+04.90, 491.13' Lt. Elev. 1305.40'
- 126 B.M. *63 Set "U" In Center North Edge Parking Lot Curb Inlet In Southeast Corner Parking Lot For Hampton Inn #3800 W. Kellogg Drive N.
± 650' East Of West St. North Of U.S. 54/400
N 1681399.5988 E 1634367.9903
ℓ U.S. 54/400 Sta. 450+73.67, 301.32' Lt. Elev. 1302.11'
- 127 B.M. *69 Set "U" On Retaining Wall North Side Of W. Kellogg Dr. at ± ℓ Of Concrete Base For Highway Sign "I-235 SOUTH EXIT 1/4 MILE EXIT ONLY" Facing West For Eastbound U.S. 54/400.
N 1680723.2551 E 1628022.4885
ℓ U.S. 54/400 Sta. 387+00.50, 74.88 Rt. Elev. 1308.15'
- 128 B.M. *70 Set "L" Southeast Corner Of Traffic Signal Vault In Northwest Quadrant Of Hoover And W. Kellogg Dr. South Just West Of Sidewalk
N 1680649.7241 E 1628654.8519
ℓ U.S. 54/400 Sta. 393+28.60, 178.71 Rt. Elev. 1306.86'
- 129 B.M. *70A Set "U" On North Side Of Abandoned Railroad Signal Base Northwest Quadrant Hoover And A.T.S.F. Railroad Track R/W
N 1680290.4679 E 1628666.8974
ℓ U.S. 54/400 Sta. 393+23.37, 538.13' Rt. Elev. 1316.06'
- 130 B.M. *76 Set "L" On Northwest Corner Of South Headwall For 4'X4' R.C.B. under U.S. 54/400/Kellogg And Northbound I-235 Ramp To Eastbound U.S. 54/400/Kellogg
N 1680814.5273 E 1631170.0561
ℓ U.S. 54/400 Sta. 418+48.85, 128.95' Rt. Elev. 1305.47'
- 131 B.M. *77 Set "U" On North side Of Concrete Light Base (*50094) For Highway Light ± 100' South Of South Side Of Eastbound U.S. 54/400/Kellogg Across From "Town And Country" Restaurant #4702 Kellogg Drive.
N 1680805.2228 E 1631928.7995
ℓ U.S. 54/400 Sta. 426+06.27, 174.70' Rt. Elev. 1304.41'
- 132 B.M. *78 Set "L" On Southwest Corner Of Concrete Pad For "City Of Wichita" Irrigation Control Station ± 75' South Of U.S. 54/400/Kellogg off Ramp To West St. And North "Kansas Candy And Tobacco Warehouse"
N 1680855.1699 E 1632564.8142
ℓ U.S. 54/400 Sta. 432+43.95, 155.37' Rt. Elev. 1305.04'
- 133 B.M. *78A Set Railroad Spike East Face Light/Power Pole Northwest Quadrant Sabln And Irving
N 1680570.0452 E 1632455.2274
ℓ U.S. 54/400 Sta. 431+20.79, 434.90' Rt. Elev. 1305.05'
- 134 B.M. *79 Set "U" On South Side Of Curb Inlet South Side Of Off Ramp From Eastbound U.S. 54/400/Kellogg To West St. ± 700' West Of West St.
N 1680956.5401 E 1633315.7909
ℓ U.S. 54/400 Sta. 439+98.93, 90.20' Rt. Elev. 1302.97'
- 135 B.M. *80 Found "City Of Wichita Benchmark" On Abandoned Signal Base For Railroad Crossing South Of U.S. 54/400/Kellogg And In Northwest Quadrant Of West St. And Abandoned A.T.S.F. Track R/W
N 1680966.9192 E 1633914.5037
ℓ U.S. 54/400 Sta. 445+97.45, 108.60' Rt. Elev. 1307.05'
- 136 B.M. *80A Set "U" West Face Of Concrete Sign Base For "West U.S. 54" Cantilever Sign Over Northbound West St. ± 100' South Of McCormick And West St. Intersection In Southeast Quadrant
N 1680603.3654 E 1634013.6964
ℓ U.S. 54/400 Sta. 446+79.06, 476.50' Rt. Elev. 1301.66'
- 137 B.M. *81 Set "U" On North Side Of Concrete Light Base For Highway Light(*50099) ± 35' South On Ramp And ± 700' East Of West St. Sta., 650' East Of West South Of U.S. 54/400/Kellogg
N 1681077.1392 E 1634551.4322
ℓ U.S. 54/400 Sta. 452+38.33, 31.89' Rt. Elev. 1303.59'
- 138 BM* 98 Set "U" Cut Top Center Front Face Curb Inlet South Side West Street On Ramp To Eastbound Kellogg/54/400 ± 100' West Of End Of Care Area
N 1681111.1352 E 1635417.2249
ℓ U.S. 54/400 Sta. 461+00, 82.58' Rt. Elev. 1303.50'



CONSULTANTS:

WATER MAIN RELOCATIONS - PHASE 1
KELLOGG & I-235 INTERCHANGE
RED PROJECT



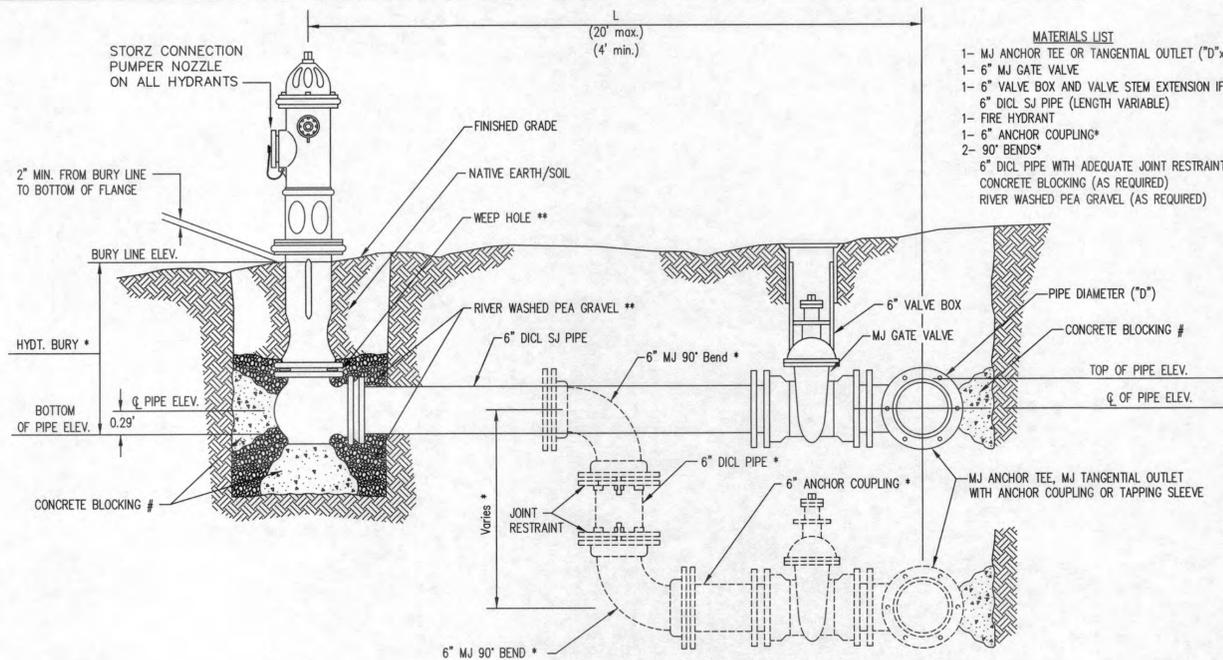
REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: P125140031
SCALE: NTS
DATE: 6/8/2015
DESIGNED BY: DAN
DRAWN BY: DAN
CHECKED BY: MDB

SHEET TITLE:
BENCHMARK DESCRIPTIONS

SHEET NO.
6
SHEET 6 OF 22

For Location Map See Sheet No. 4



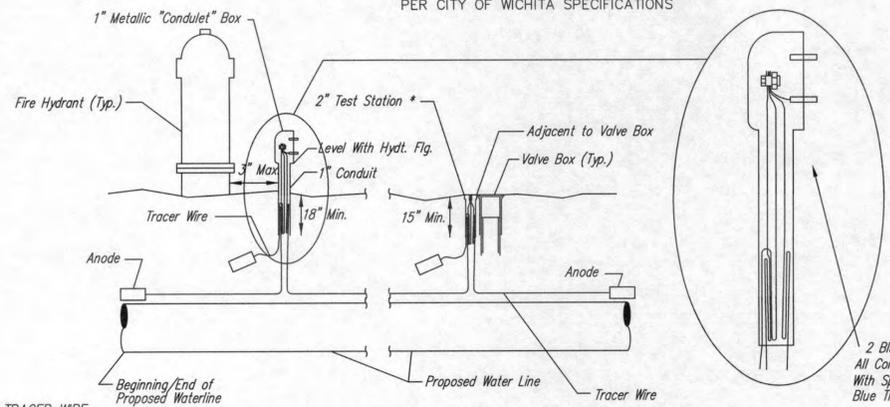
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (\"D\" x 6\")
 - 1- 6\" MJ GATE VALVE
 - 1- 6\" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6\" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6\" ANCHOR COUPLING*
 - 2- 90\" BENDS*
 - 6\" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - 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\" DI CL 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 installed 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. Test stations shall be installed adjacent to all fire hydrants along the waterline and at blowoffs or valves near the ends of waterlines. Any exception to the location shall be approved by the engineer. At each test station, the tracer wire shall be connected to a 3 lb. Zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline. A typical layout of the tracer wire and test station is provided in the above figure.

WIRES

The tracer wire shall be Blue No. 12 AWG CCS with 3045 mil HDPE insulation. The insulation shall be heat, oil, and gasoline resistant as manufactured by Temple Electric or approved equal. 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. The insulation sheathing shall be removed such that 1\" bare copper wire at all points of connection. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

TEST STATIONS

A complete list of approved Tracer Wire can be found on City of Wichita's website at www.wichita.gov. The test station for fire hydrant applications shall be a 1 inch galvanized \"condulet\" style test station as manufactured by AGRA Industries with a removable solid cover having two leads extending from the face or approved equal. The test station for valve applications shall be 2 inch flush style test station T2PS3B as manufactured by HANDLEY Industries or approved equal. The \"conduit\" style test station shall be attached to a 1 inch 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. 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 installed to allow 10 inches of wire within the test station. In concrete environments such as sidewalks or in the downtown area the contractor shall use the flush style test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the as-built drawings.

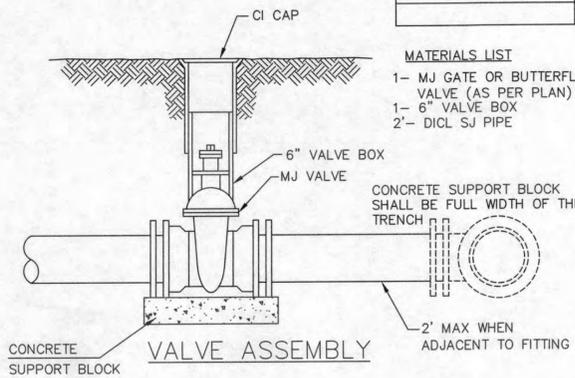
ANODES

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.

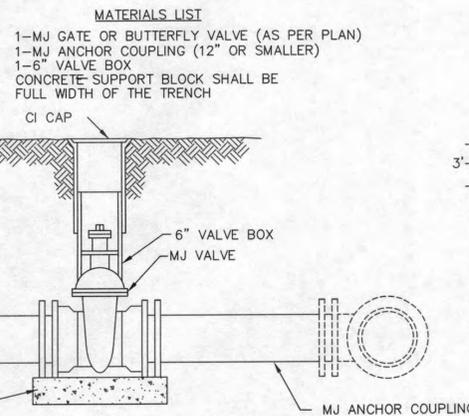
TRACER WIRE DETAIL

COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
WL 12A, 10+37.10	1305.24	1300.87	5.0'	-

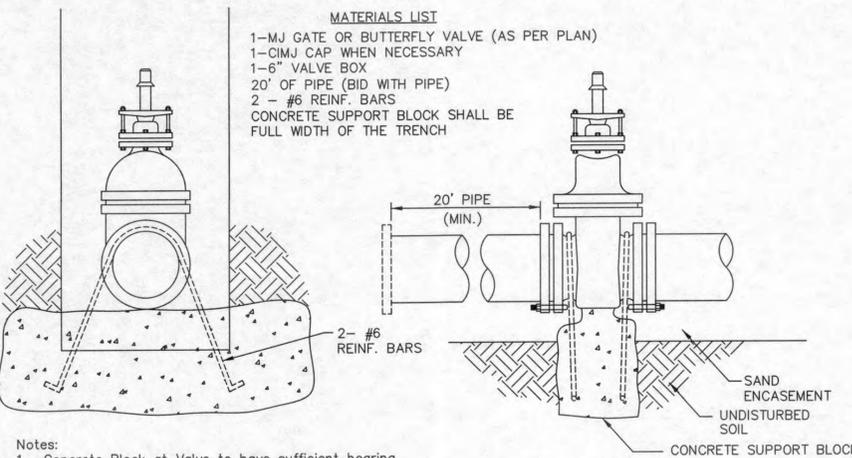


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- 6\" VALVE BOX
 - 2- DI CL SJ PIPE



- 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

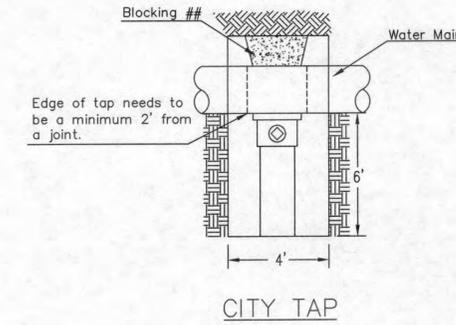
ANCHORED VALVE ASSEMBLY, SPECIAL



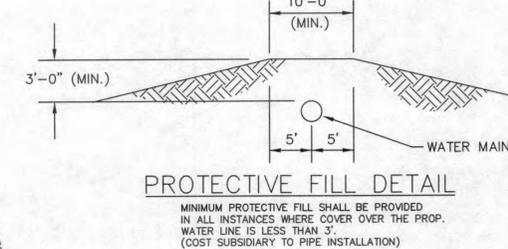
Notes:

- 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.
- The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
- 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 #/in ²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

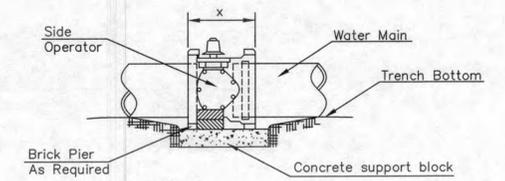


When the City of Wichita makes tap, blocking is to be done by Contractor



PROTECTIVE FILL DETAIL

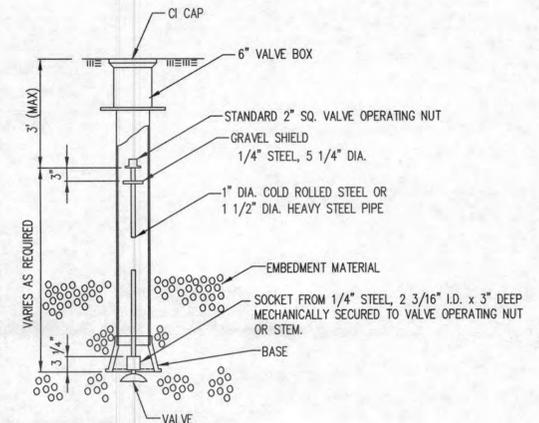
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3\" (COST SUBSIDIARY TO PIPE INSTALLATION)



NOTES

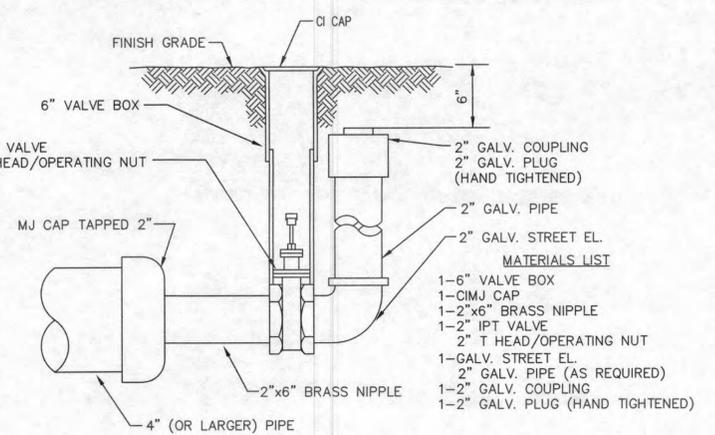
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24\" and larger lines to be detailed on plans.
- 6\" Valve Box and Cover required per City of Wichita Std. Specifications.
- Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



VALVE STEM EXTENSION DETAIL

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



2\" BLOWOFF ASSEMBLY



CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

REVISED JANUARY 2015

STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 448-90646	OCA NUMBER 636327	DATE 6/8/2015
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CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
7 of 22

CONSULTANTS:

WATER MAIN RELOCATIONS - PHASE 1
KELLOGG & I-235 INTERCHANGE
RED PROJECT

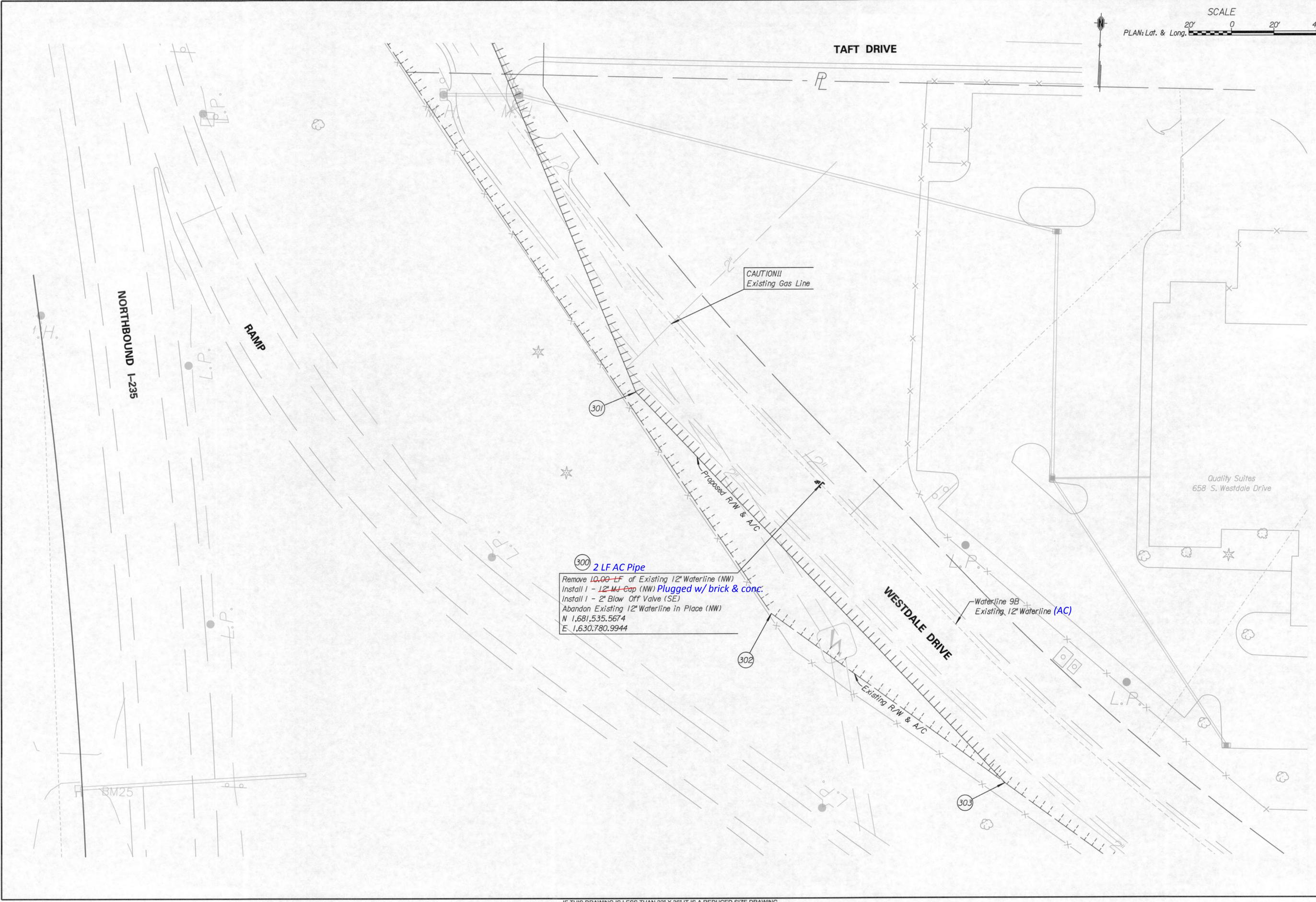
WICHITA, KANSAS
CITY OF
WICHITA

REVISIONS:	MARK	DATE	DESCRIPTION

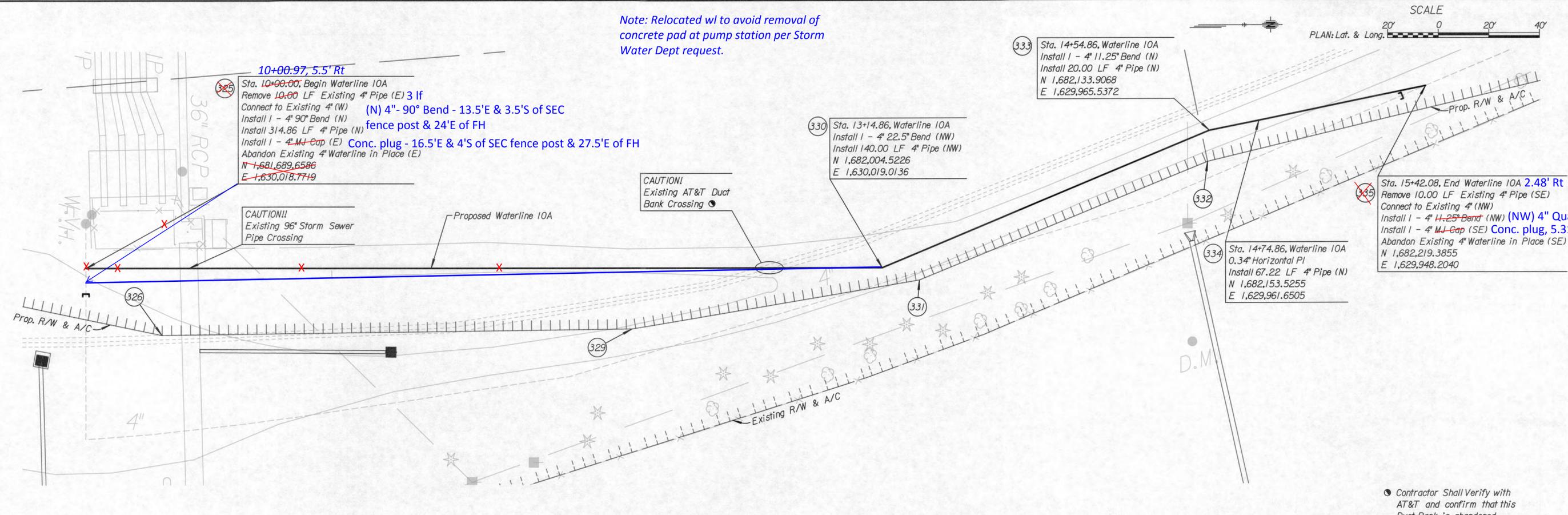
PROJ NO: P125140031
SCALE: 1" = 20'
DATE: 6/8/2015
DESIGNED BY: DAN
DRAWN BY: DAN
CHECKED BY: MDB

SHEET TITLE:
**WATERLINE 9B
WESTDALE DR.**

SHEET NO.
18
SHEET 18 OF 22



Note: Relocated wl to avoid removal of concrete pad at pump station per Storm Water Dept request.



10+00:97, 5.5' Rt
 Sta. 10+00.00, Begin Waterline 10A
 Remove 10.00 LF Existing 4" Pipe (E) 3 If
 Connect to Existing 4" (W) (N) 4"- 90° Bend - 13.5'E & 3.5'S of SEC fence post & 24'E of FH
 Install 1 - 4" 90° Bend (N)
 Install 314.86 LF 4" Pipe (N)
 Install 1 - 4" M.J. Cap (E) Conc. plug - 16.5'E & 4'S of SEC fence post & 27.5'E of FH
 Abandon Existing 4" Waterline in Place (E)
 N 1,681,689.6586
 E 1,630,018.7719

330 Sta. 13+14.86, Waterline 10A
 Install 1 - 4" 22.5° Bend (NW)
 Install 140.00 LF 4" Pipe (NW)
 N 1,682,004.5226
 E 1,630,019.0136

333 Sta. 14+54.86, Waterline 10A
 Install 1 - 4" 11.25° Bend (N)
 Install 20.00 LF 4" Pipe (N)
 N 1,682,133.9068
 E 1,629,965.5372

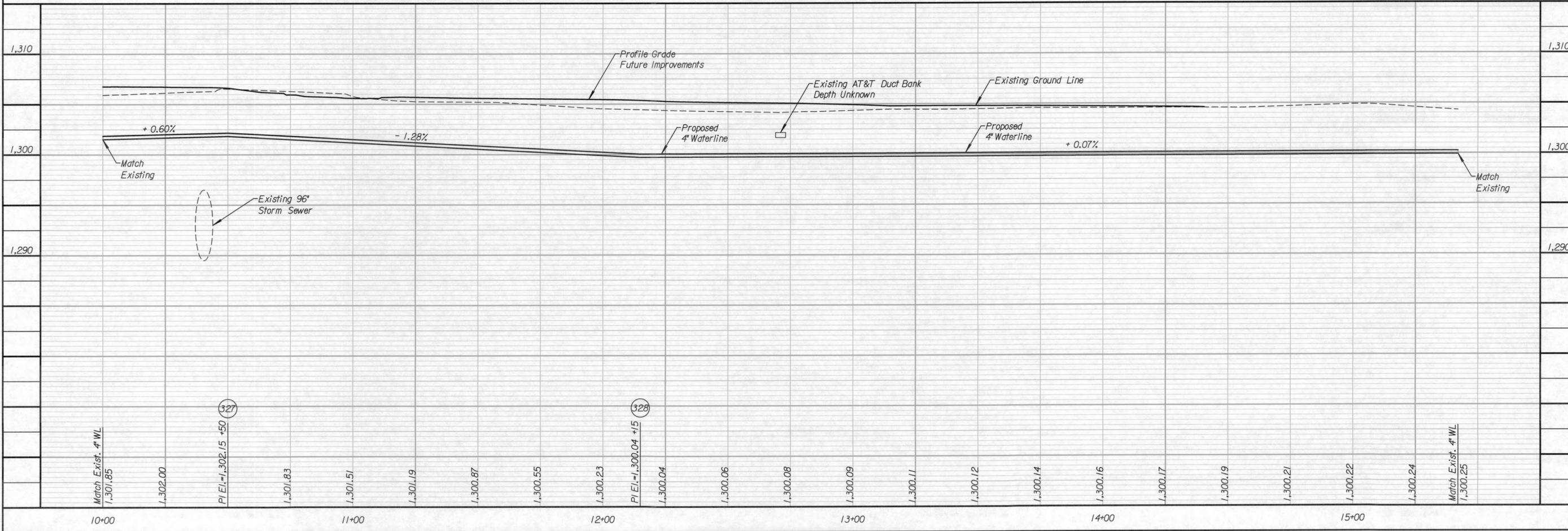
334 Sta. 14+74.86, Waterline 10A
 0.34° Horizontal PI
 Install 67.22 LF 4" Pipe (N)
 N 1,682,153.5255
 E 1,629,961.6505

335 Sta. 15+42.08, End Waterline 10A 2.48' Rt
 Remove 10.00 LF Existing 4" Pipe (SE)
 Connect to Existing 4" (NW) (NW) 4" Quantum coupling (DIMJ)
 Install 1 - 4" M.J. Cap (SE) Conc. plug, 5.31' Rt
 Abandon Existing 4" Waterline in Place (SE)
 N 1,682,219.3855
 E 1,629,948.2040

CAUTION!!
 Existing 96" Storm Sewer
 Pipe Crossing

CAUTION!
 Existing AT&T Duct
 Bank Crossing

Contractor Shall Verify with
 AT&T and confirm that this
 Duct Bank is abandoned.



TranSystems
 245 NORTH WACO
 SUITE 222
 WICHITA, KANSAS 67202
 PHONE: 316-303-3000
 FAX: 316-303-0156

PROFESSIONAL ENGINEER
 MICHAEL D. BAILEY
 LICENSE NO. 20585
 6/9/15

CONSULTANTS:
**WATER MAIN RELOCATIONS - PHASE 1
 KELLOGG & I-235 INTERCHANGE
 RED PROJECT**
 WICHITA, KANSAS
 CITY OF WICHITA

REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: P125140031
 SCALE: 1" = 20'
 DATE: 6/8/2015
 DESIGNED BY: DAN
 DRAWN BY: DAN
 CHECKED BY: MDB

SHEET TITLE:
**WATERLINE 10A
 STA. 10+00.00 TO
 STA. 15+42.08**

SHEET NO. 19
 SHEET 19 OF 22

