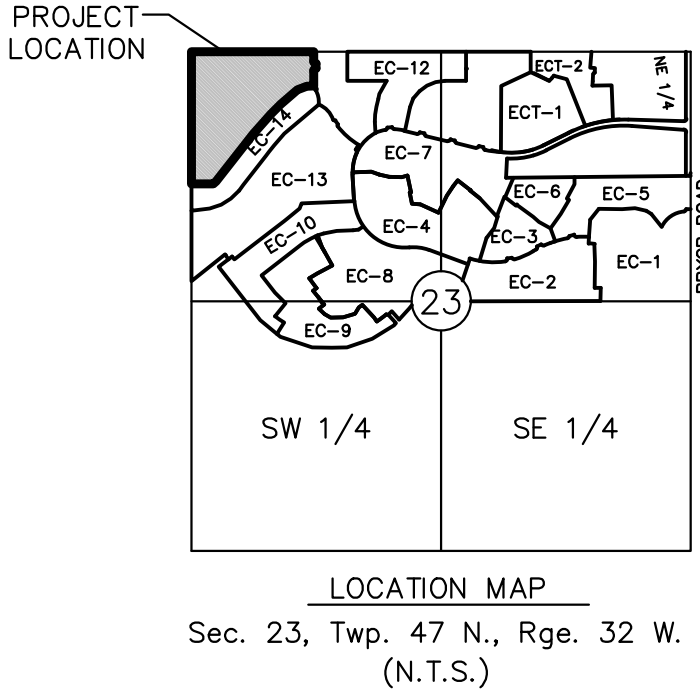


EAGLE CREEK 15TH PLAT

Lee's Summit, Jackson County, Missouri

WATER MAIN EXTENSION

PROJECT BENCHMARK
KC Metro Monument JA-74, 1988 Monument located in the NW. $\frac{1}{4}$, NW. $\frac{1}{2}$ Sec. 35, T47N, R32W on the South R/W of Route 150. 56.5' South of the Centerline of Route 150 and 90' West of a private drive into a farmhouse on the North R/W. Elevation: 1057.70



SUMMARY OF QUANTITIES			
ITEM	UNIT	PLAN	AS-BUILT
8" C900 Plastic Pipe	L.F.	2,362.72	2,362.72*
8"x8" Tee	E.A.	2	2
Temporary Hydrant Assembly	E.A.	2	2
Fire Hydrant Assembly	E.A.	4	4
Gate valves	E.A.	3	4
Convert Temporary Hydrant Assembly	E.A.	1	1
Remove Temporary Hydrant Assembly	E.A.	2	2

*As provided by contractor

Summary of Quantities as indicated above and any quantities as shown within the plans have been provided for permitting purposes only and are not intended for use in preparation of contract documents. Quantities intended for, but not limited to, the preparation of proposals and bid documents shall be independently evaluated by the estimating party based upon the contents of these plans.

Note: All construction shall follow the City of Lee's Summit Design and Construction Manual as adopted by Ordinance 5813.

AS BUILT

DATE: 11.14.2017

INDEX OF SHEETS

COVER SHEET	1
WATER GENERAL LAYOUT	2
WATER PLAN & PROFILE	3-5
WATER DETAILS	6

Applicant:
Hunt Midwest Real Estate Development Inc.
8300 NE Underground Drive
Kansas City, MO 64161
Phone #: 816.455.2900
Contact Person: Aaron Schmidt

Melin & AG

3-5-18

Melissa G DeGonia, P.E.

Civil Engineer

MO# 2011000892

1301 Burlington, #100

North Kansas City, Missouri 64116

Phone: 816-587-4320; Fax: 816-587-1393

REVIEWED BY:

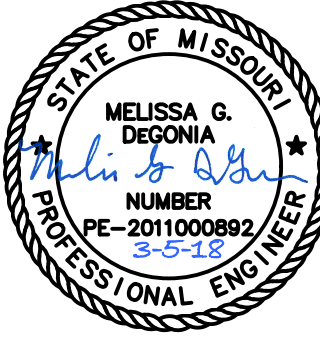
City of Lee's Summit, Missouri

Date _____

UTILITY SERVICE NUMBERS	
LEE'S SUMMIT PUBLIC WORKS	816-969-1800
LEE'S SUMMIT WATER & SEWER DEPARTMENT	816-696-1940
MISSOURI GAS ENERGY	816-756-5252
TIME WARNER CABLE	816-358-5360
AT&T	800-286-8313
KCP&L	816-471-5275



OLSSON[®]
ASSOCIATES

[illegible]

COVER SHEET

EAGLE CREEK
15TH PL AT

LEE'S SUMMIT MISSOURI

Drawn by: _____ D.A.H.C.
 Design by: _____ P.M.I.
 Approved by: _____ M.G.I.
 QA/QC by: _____ M.G.I.
 Project no.: _____ 016-3433
 Date: _____ 2016/12/01

SHEET

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DATE: Jan 10, 2018 6:03pm
USER: dherandez



LEGEND

NEW

WATER MAINS

FIRE HYDRANTS ASSEMBLY

STRAIGHT SET HYDRANT ASSEMBLY

STRADDLE BLOCK

VALVES

OTHERS

PROPERTY LINE

STOP SIGN

END OF ROAD TREATMENT

EXISTING

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE STANDARDS AND SPECIFICATIONS FOR WATER MAIN EXTENSIONS OF THE LEE'S SUMMIT, MISSOURI WATER SERVICES DEPARTMENT. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.

2. AREAS WITH LESS THAN 4 FEET OF DEPTH FROM EXISTING GRADE TO PROPOSED TOP OF PIPE SHALL BE FILLED TO AN ELEVATION OF 4 FEET ABOVE THE PROPOSED TOP OF PIPE, COMPACTED 95% OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 PRIOR TO TRENCHING FOR PIPE INSTALLATION.



1"=60' HORIZ.
(for 22"x34" sheet)

NOT AS BUILT

WATER GENERAL LAYOUT

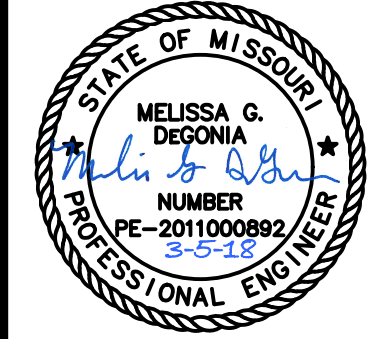
EAGLE CREEK
15TH PLAT

KANSAS CITY, MISSOURI

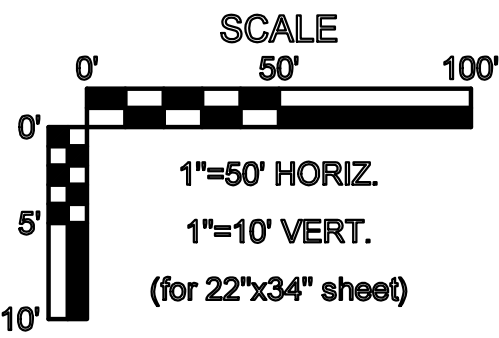
2016

NO.	REV.	DATE	REVISIONS DESCRIPTION
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		02.23.2017	Sheet Scale Revised

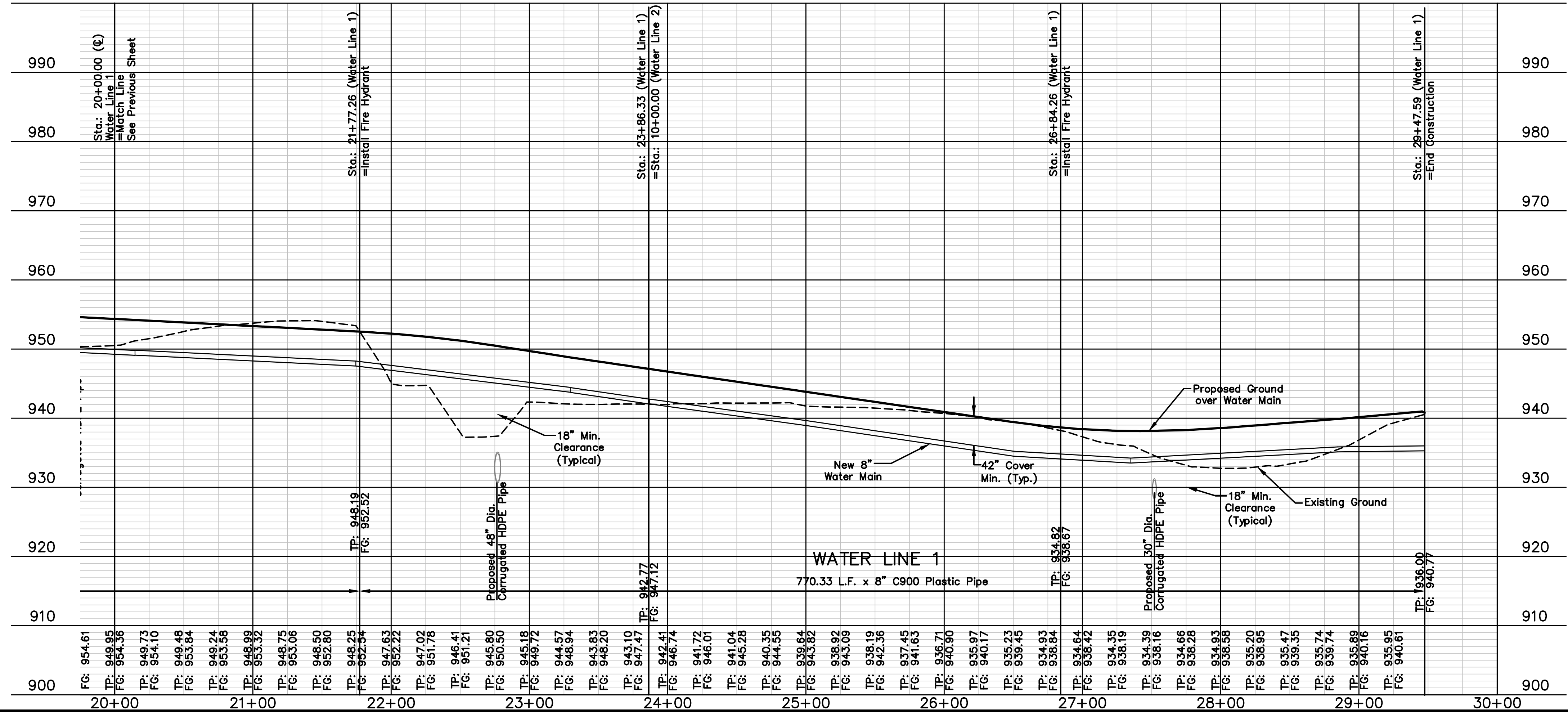
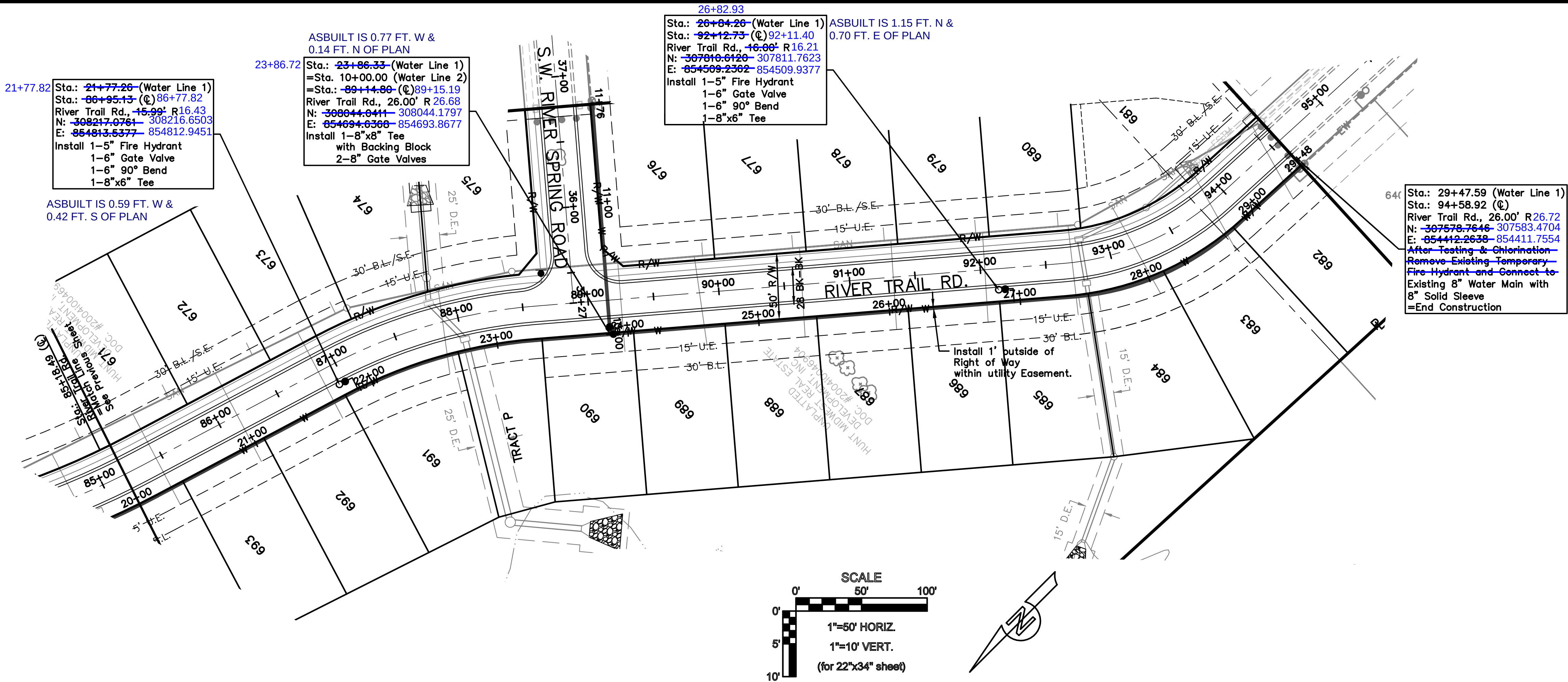
BY	REVISIONS
JES	



MOLSSON ASSOCIATES
Olsson Associates - Civil Engineering
Missouri Certificate of Authority # 207022824
1301 Burlington, Suite 100
North Kansas City, MO 64116
TEL 816.587.4320
FAX 816.587.1393
www.olssonassociates.com



SHEET
3



AS BUILT
DATE: 11.14.2017

WATER PLAN & PROFILE

EAGLE CREEK
15TH PLAT

KANSAS CITY, MISSOURI

2016

drawn by: D.A.H.O
design by: P.M.D
approved by: M.G.D
QA/QC by: M.G.D
project no.: 016-3432
date: 2016/12/05

SHEET
4

OLSSON
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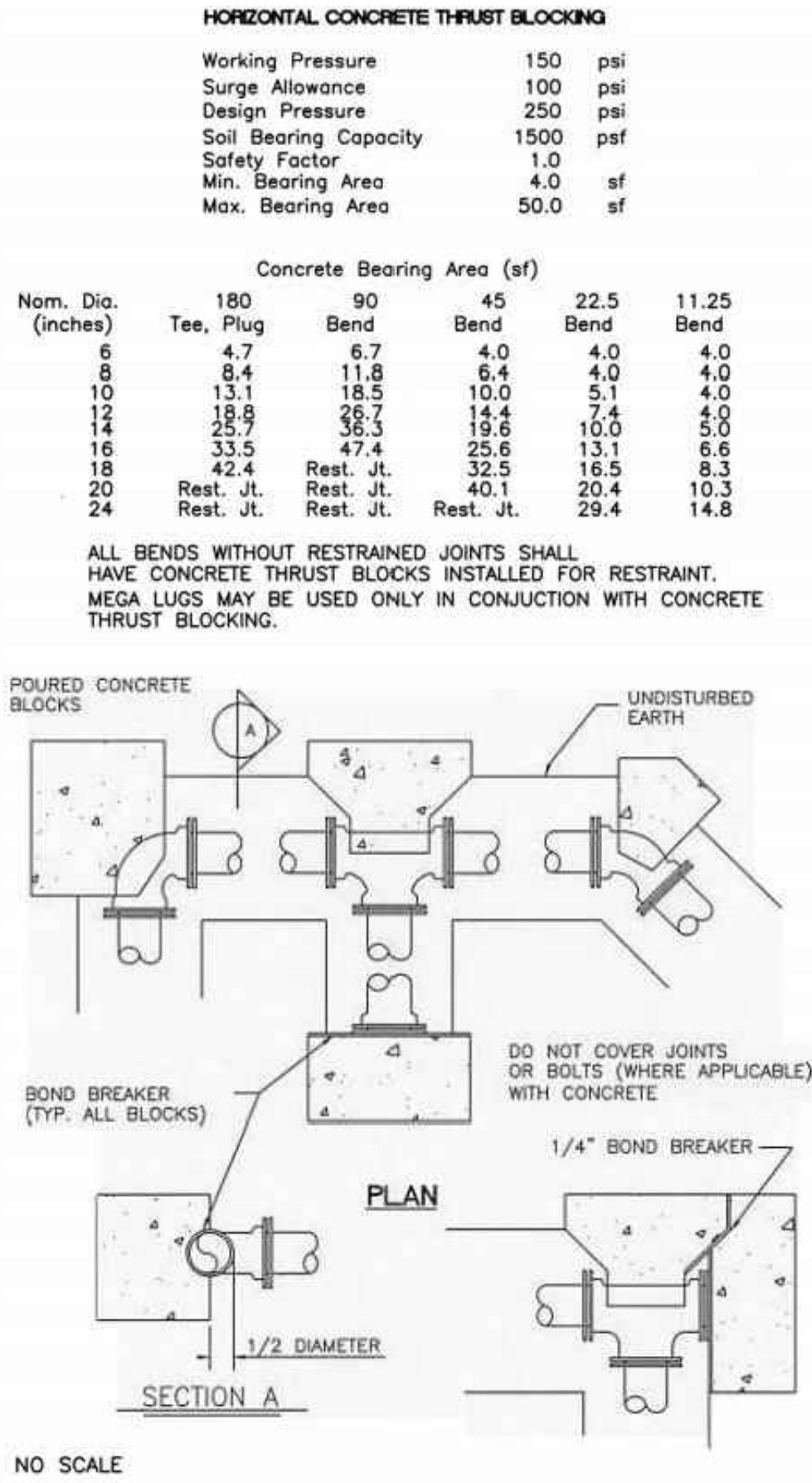
STATE OF MISSOURI

MELISSA G. DECONA
Professional Engineer
NUMBER
PE-2011000692
3-5-15

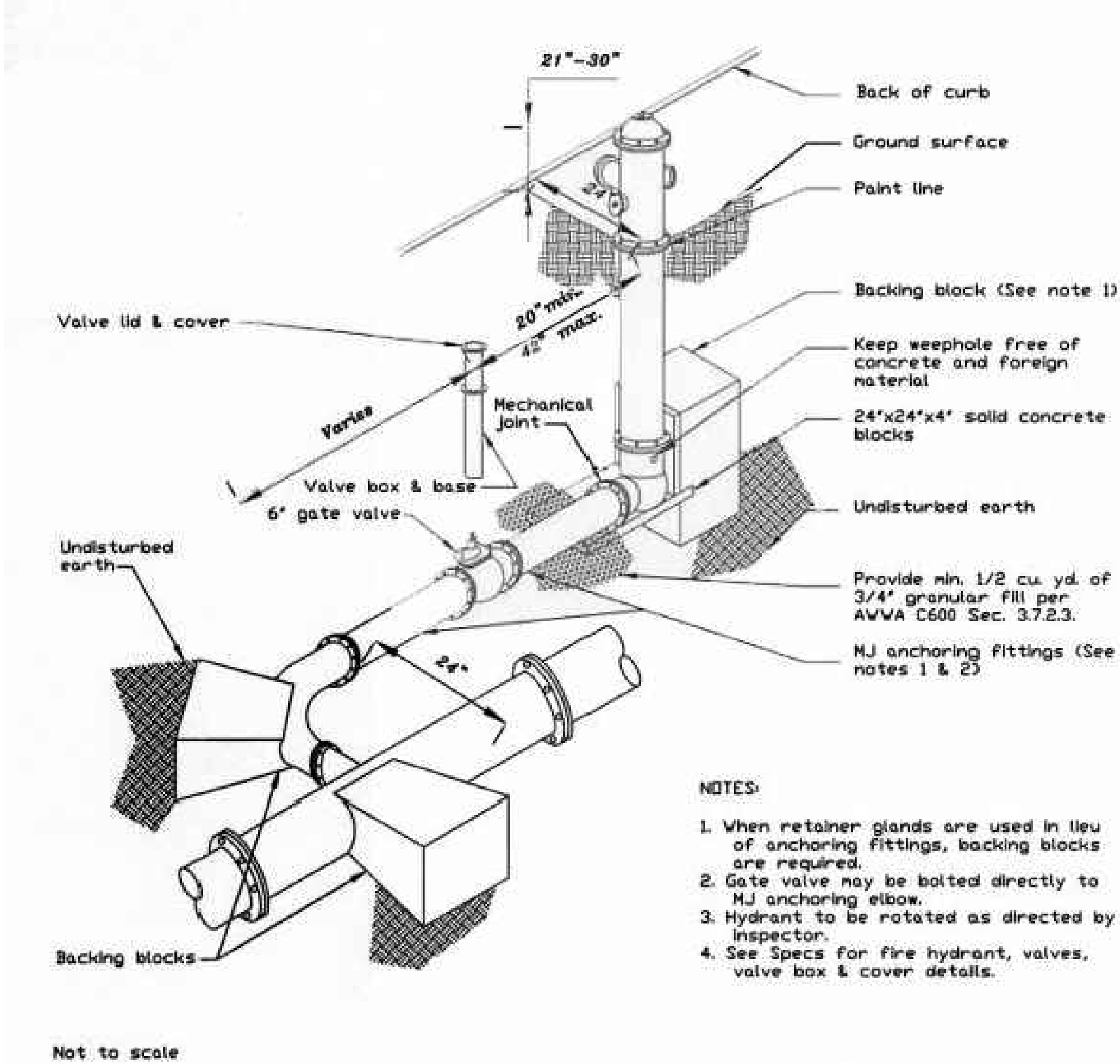
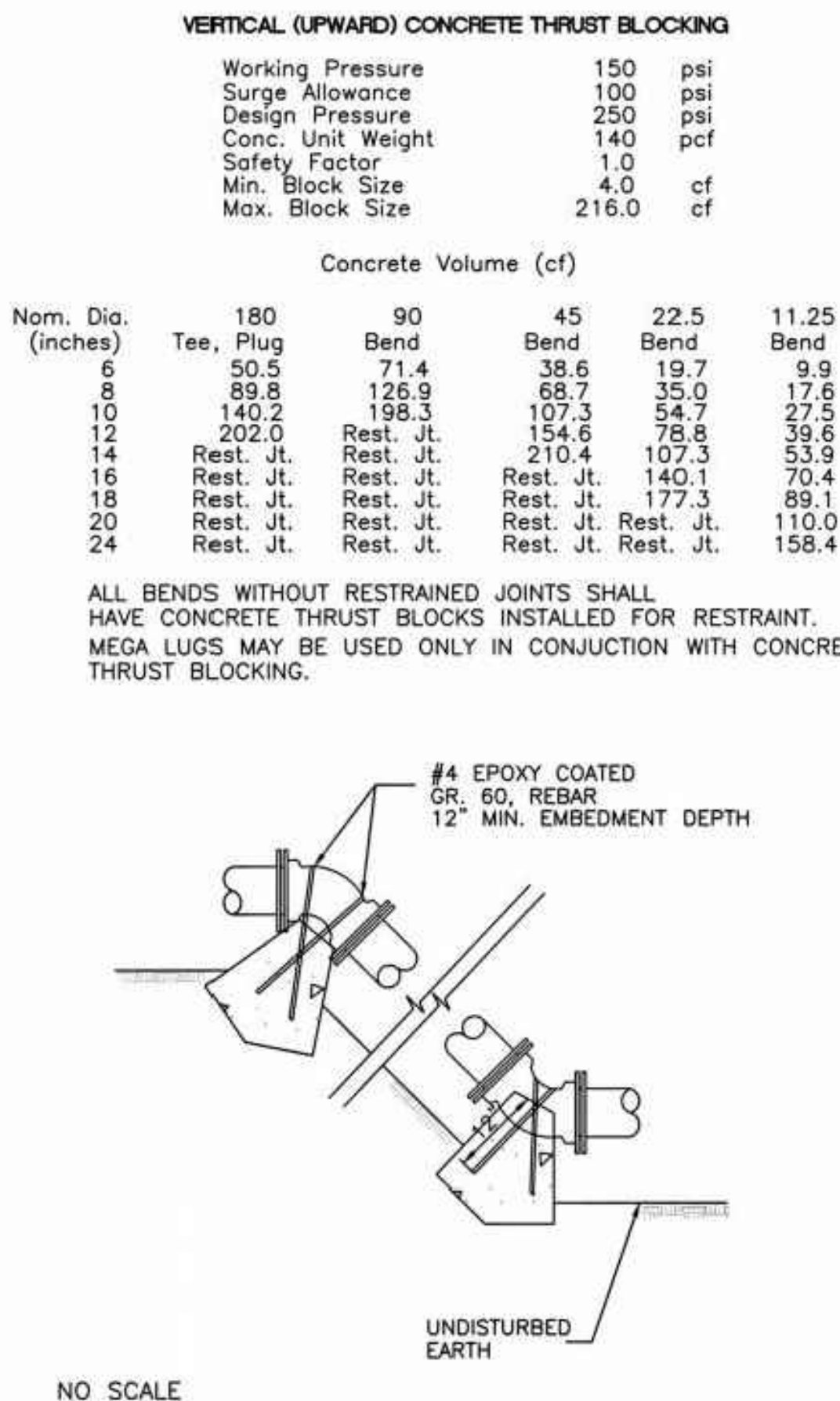
REVISIONS

NO.	REV.	DATE	DESCRIPTION	BY
		01.17.2017	Prepared for city submittal	

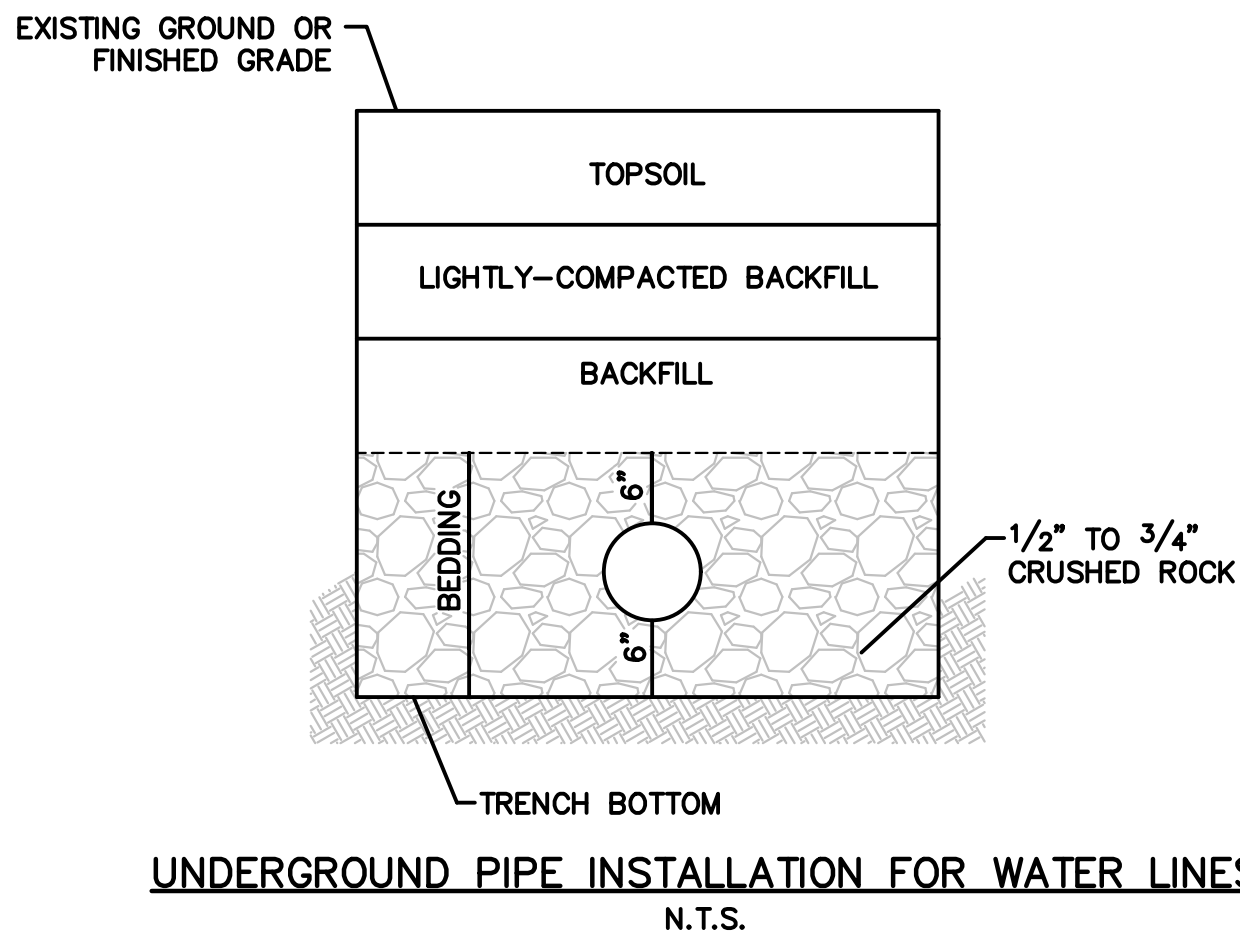
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DATE: Jan 10, 2018 6:04pm
USER: dhernandez



THRUST BLOCK DETAILS
N.T.S.

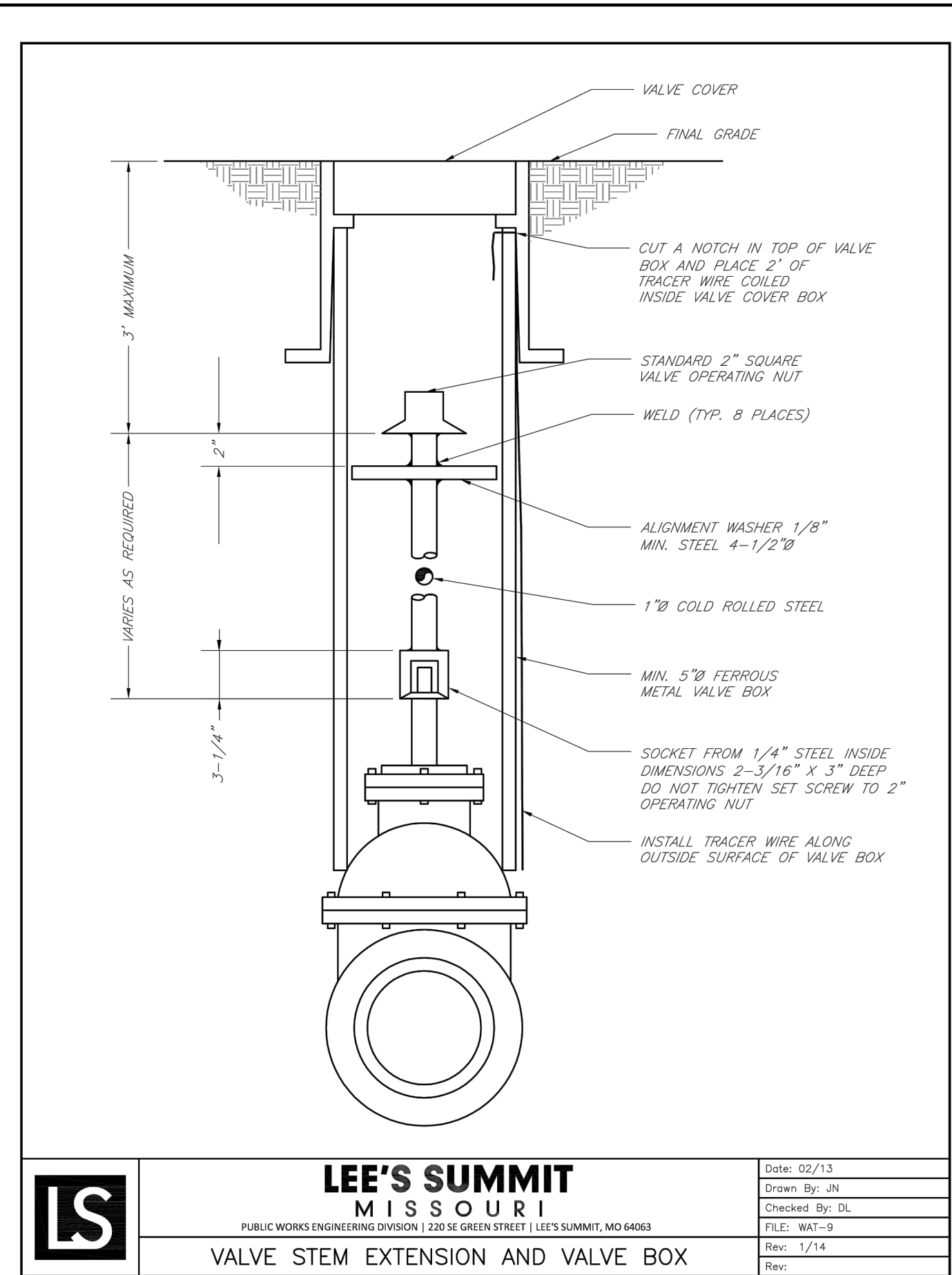


FIRE HYDRANT DETAIL
N.T.S.



- NOTES:**
- A MINIMUM OF 42 INCHES OF COVER SHALL BE OVER THE TOP OF THE PIPE. THIS MINIMUM OF COVER SHALL BE FROM THE TOP OF PIPE TO THE FINISHED GRADE. A MAXIMUM COVER OF 7' SHALL BE ALLOWED.
 - BEDDING AGGREGATE SHALL BE PLACES FROM A LEVEL 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL 6 INCHES ABOVE THE TOP OF THE PIPE.
 - TRENCH BACKFILL IN PAVED AREAS WITHIN STREET OR ALLEY RIGHT OF WAYS
 - NARROW TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES 24 INCHES OR LESS IN WIDTH AND SHALL BE TYPE A FLOWABLE FILL.
 - STANDARD TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES BETWEEN 24 TO 48 INCHES WIDE SHALL BE EITHER TYPE A FLOWABLE FILL OR DENSE, WELL GRADED AGGREGATE BASE MATERIAL. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS FOR KDOT AB-3; MODOT TYPES 1 OR 5; OR APWA 2202.2.
 - WIDE TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES BETWEEN GREATER THAN 48 INCHES WIDE SHALL BE SUITABLE MATERIAL AS SPECIFIED FOR EARTH EMBANKMENT IN APWA STANDARD SPECIFICATIONS, SECTION 2102.2.C.
 - SUITABLE BACKFILL MATERIAL OUTSIDE OF PAVED AREAS WITHIN RIGHT OF WAY, AND ALL AREAS OUTSIDE RIGHT OF WAY, MAY BE SUITABLE MATERIAL AS SPECIFIED FOR EARTH EMBANKMENT IN APWA STANDARD SPECIFICATIONS, SECTION 2102.2.C. SUITABLE BACKFILL MATERIAL MAY ALSO BE OTHER TRENCH BACKFILL MATERIAL (FLOWABLE FILL OR AGGREGATE BASE) DEPENDING ON SITE CONDITIONS, TRENCH WIDTHS OR AT THE DIRECTION OF THE CITY'S ON SITE INSPECTOR.

NOT AS BUILT



BY	REVISIONS DESCRIPTION	DATE	NO. REV.
JES	Prepared for city submittal	01.17.2017	1
	Trench and Valve Box details revised	02.23.2017	

WATER DETAILS	2016
EAGLE CREEK 15TH PLAT	
KANSAS CITY, MISSOURI	

drawn by: D.A.H.O
design by: P.M.D
approved by: M.G.D
QA/QC by: M.G.D
project no.: 016-3432
date: 2016/12/09