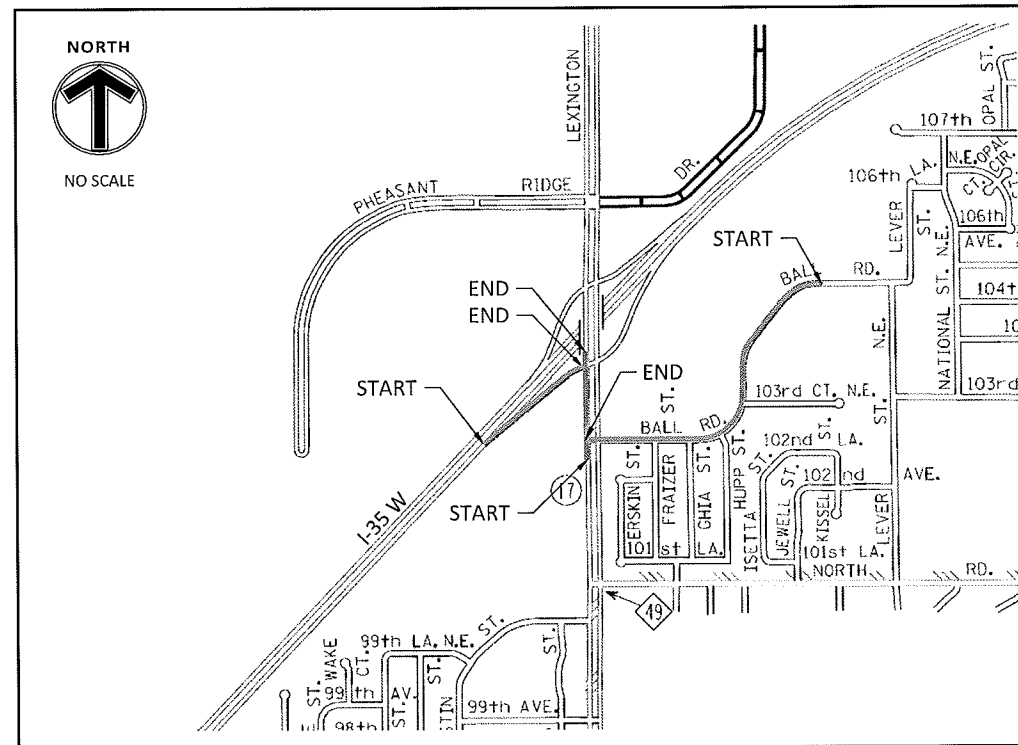


CITY OF BLAINE, MINNESOTA

CONSTRUCTION PLANS
FOR

GRADING, AGGREGATE BASE, CONCRETE CURB & GUTTER,
BITUMINOUS SURFACING, STORM SEWER, SANITARY SEWER, WATER
MAIN, BITUMINOUS TRAIL, CONC. SIDEWALK, AND TRAFFIC SIGNAL
CITY PROJECT NO. XX-XX



SHEET INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2	BALL ROAD TYPICAL SECTIONS
3	BALL ROAD SITE, SIGNAGE & STRIPING PLAN
4	BALL ROAD PLAN & PROFILE
5	BALL ROAD PLAN & PROFILE
6	BALL ROAD UTILITY PLAN
7	BALL ROAD CROSS SECTIONS
8	BALL ROAD CROSS SECTIONS
9	BALL ROAD CROSS SECTIONS
10	BALL ROAD CROSS SECTIONS
11	BALL ROAD CROSS SECTIONS
12	BALL ROAD CROSS SECTIONS
13	BALL ROAD CROSS SECTIONS
14	LEXINGTON AVENUE DEMOLITION PLAN
15	LEXINGTON AVENUE SITE PLAN
16	LEXINGTON AVENUE GRADING PLAN
17	LEXINGTON AVENUE UTILITY PLAN
18	LEXINGTON AVENUE CROSS SECTIONS
19	I-35W EXIT RAMP DEMOLITION PLAN
20	I-35W EXIT RAMP SITE PLAN
21	I-35W EXIT RAMP GRADING PLAN
22	I-35W EXIT RAMP CROSS SECTIONS

NOTES:

1. THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, ELECTRIC, CABLE, TV, AND PIPE LINES ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL (651-454-0002) BEFORE COMMENCING EXCAVATION.
2. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

Received by City Blaine 4/16/13

No.	Date	By	Revision

Designed:	
Drawn:	
Checked:	
Approved:	

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature: _____
Name: _____
Date: _____ License No.: _____

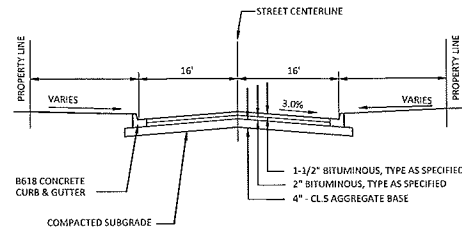


14800 28th Ave. N, Ste 140
Plymouth, Minnesota 55447
(763) 476.6010 telephone
(763) 476.8532 facsimile
www.mfra.com

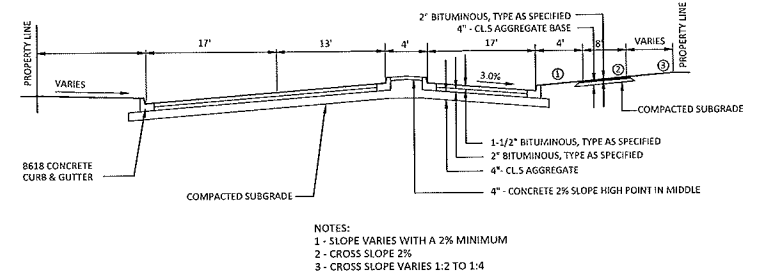
CITY OF BLAINE
CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

TITLE SHEET

BALL RD
STA. 7+00 TO STA. 21+75
TYPICAL STREET SECTION
WITH B618 CURB

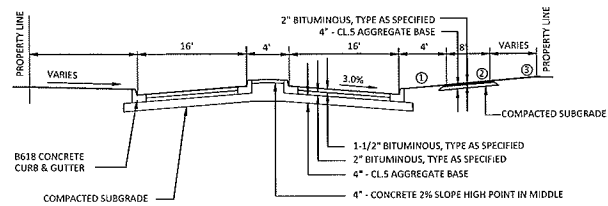


BALL RD
STA. 25+63 TO STA. 30+86
TYPICAL STREET SECTION
WITH B618 CURB



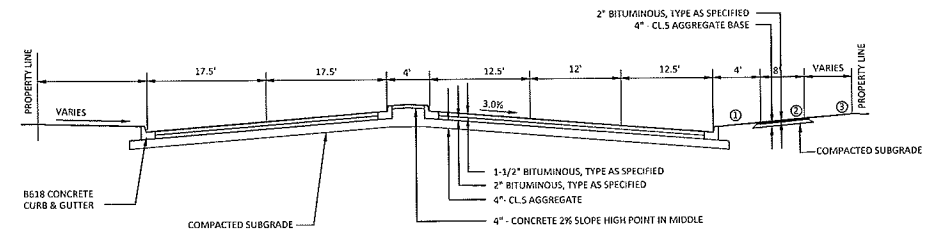
- NOTES:
1 - SLOPE VARIES WITH A 2% MINIMUM
2 - CROSS SLOPE 2%
3 - CROSS SLOPE VARIES 1:2 TO 1:4

BALL RD
STA. 25+09 TO STA. 25+63
TYPICAL STREET SECTION
WITH B618 CURB



- NOTES:
1 - SLOPE VARIES WITH A 2% MINIMUM
2 - CROSS SLOPE 2%
3 - CROSS SLOPE VARIES 1:2 TO 1:4

BALL RD
STA. 31+88 TO STA. 33+89
TYPICAL STREET SECTION
WITH B618 CURB



- NOTES:
1 - SLOPE VARIES WITH A 2% MINIMUM
2 - CROSS SLOPE 2%
3 - CROSS SLOPE VARIES 1:2 TO 1:4

No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

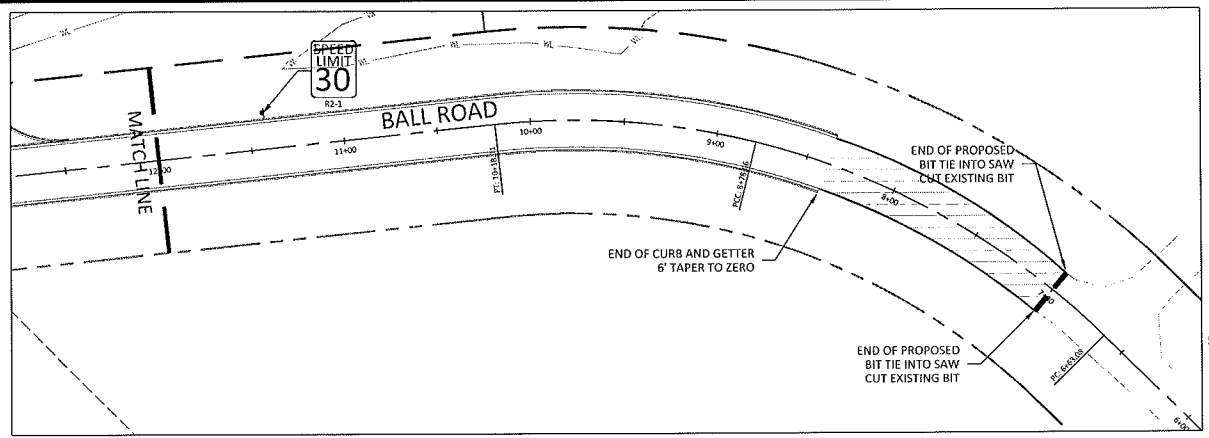
Signature _____
 Name _____
 Date _____ License No. _____



14800 28th Ave. N, Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

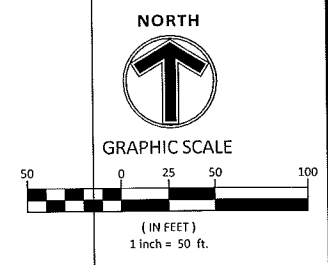
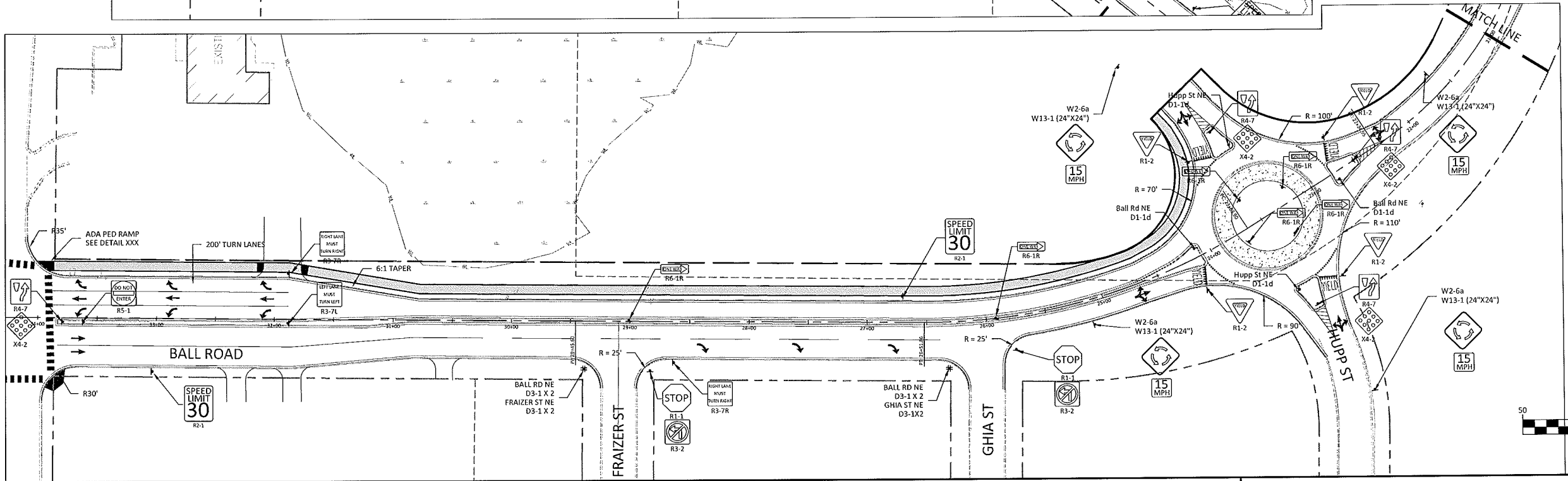
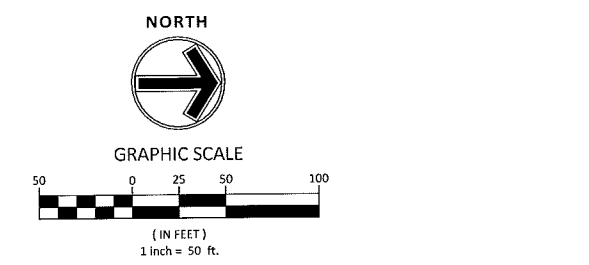
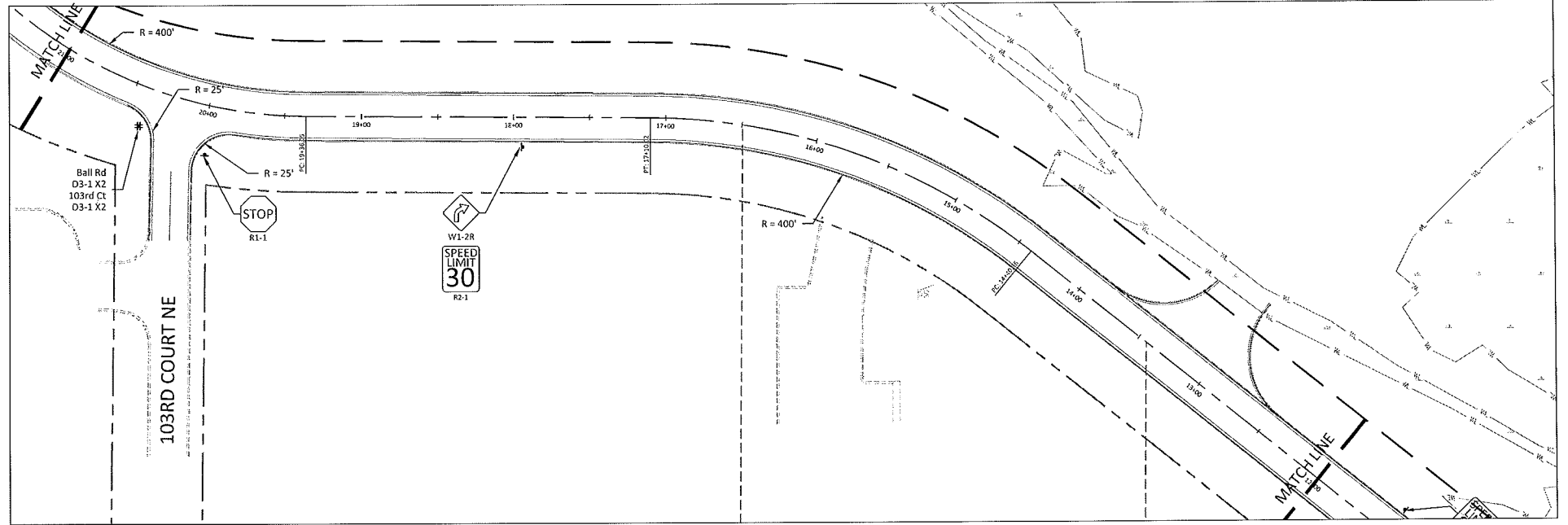
CITY OF BLAINE
 CITY PROJECT NO.
 2013 STREET IMPROVEMENT PROJECT

BALL ROAD
 TYPICAL SECTIONS



	PROPOSED	EXISTING
CURB & GUTTER	—	—
EASEMENT	—	—
BUILDING	—	—
RETAINING WALL	—	—
SAWCUT LINE	—	—
WETLAND LINE	—	—
DNR PROTECTED OHW	—	—
WETLAND BUFFER LINE	—	—
GUIDE RAIL	—	—
SINGLE SIDED SIGN	—	—
DOUBLE SIDED SIGN	—	—
PIPE BOLLARD	—	—
HEAVY DUTY ASPHALT PAVING	—	—
HEAVY DUTY CONCRETE PAVING	—	—
BITUMINOUS TRAIL	—	—

PAINT STRIPING LEGEND	
SWSL/4"	SINGLE WHITE SOLID LINE / 4" WIDE EPOXY
SYSL/4"	SINGLE YELLOW SOLID LINE / 4" WIDE EPOXY



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

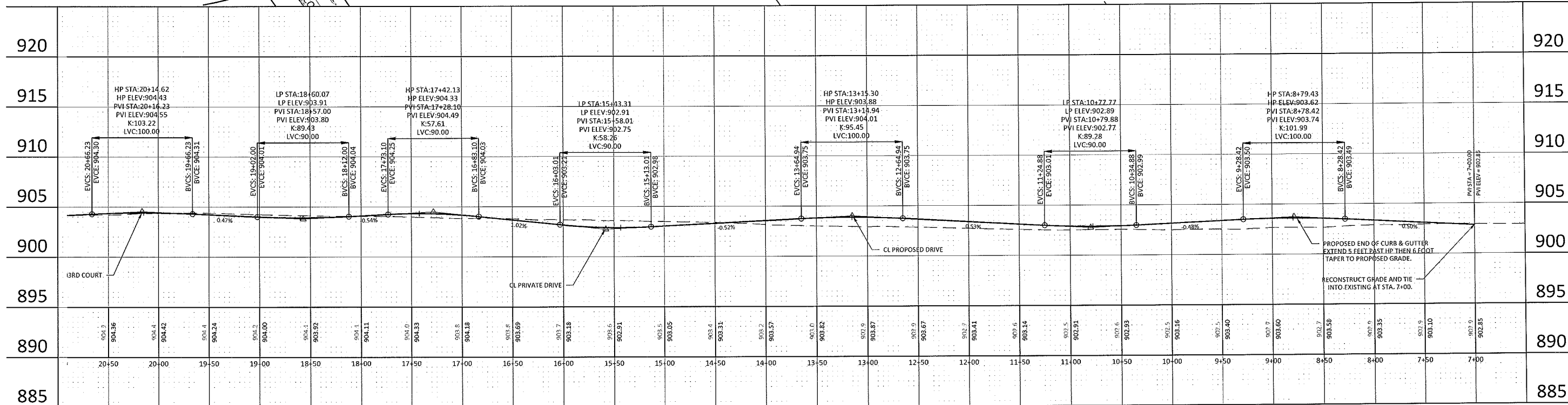
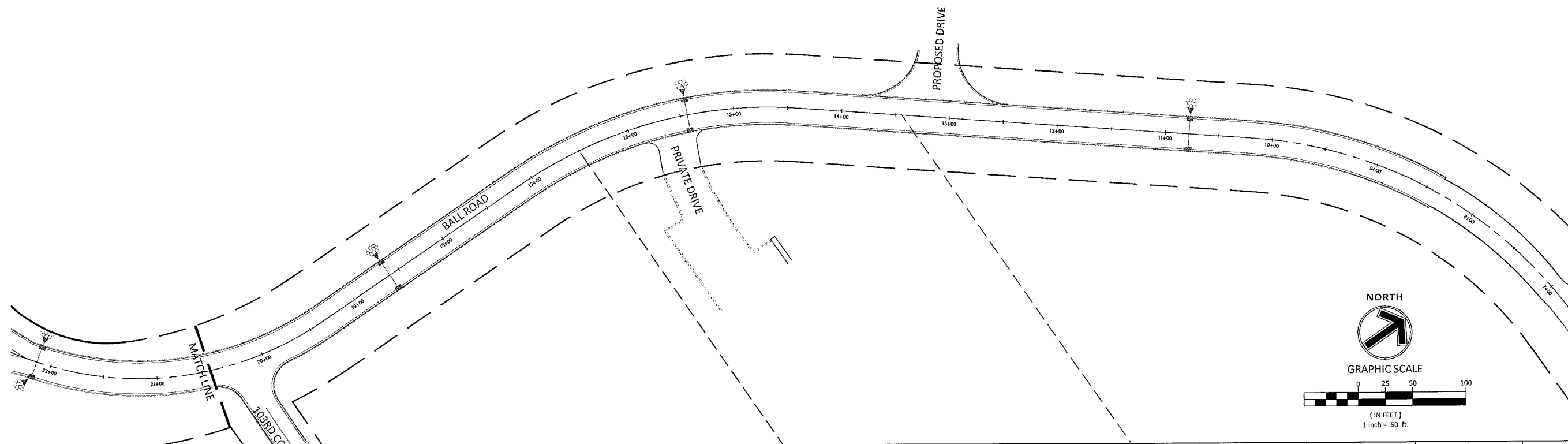
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature: _____
 Name: _____
 Date: _____ License No. _____

14800 28th Ave. N, Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

**BALL ROAD
 SITE, SIGNAGE & STRIPING PLAN**



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

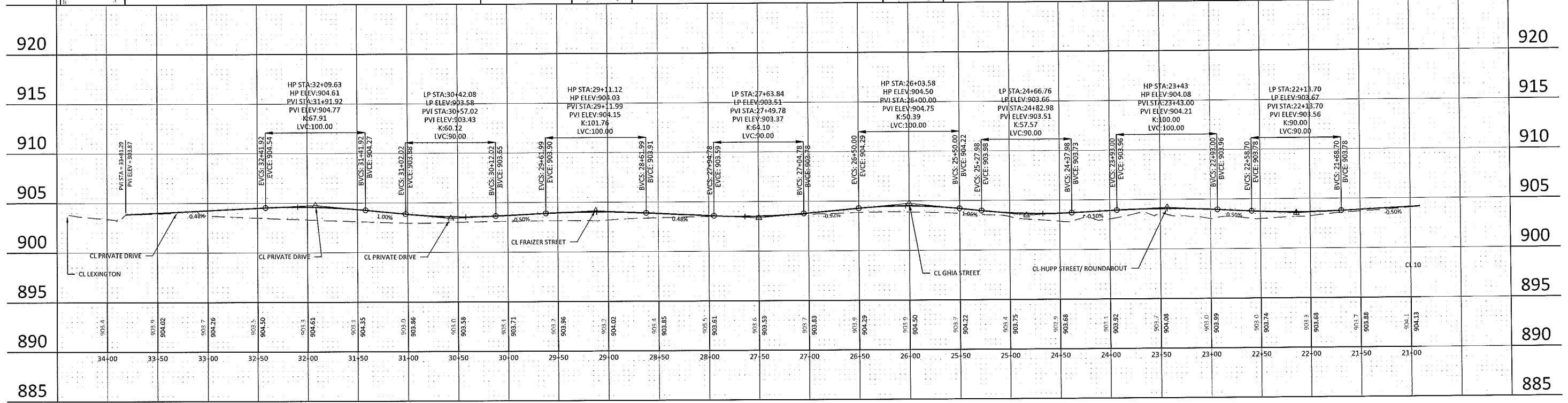
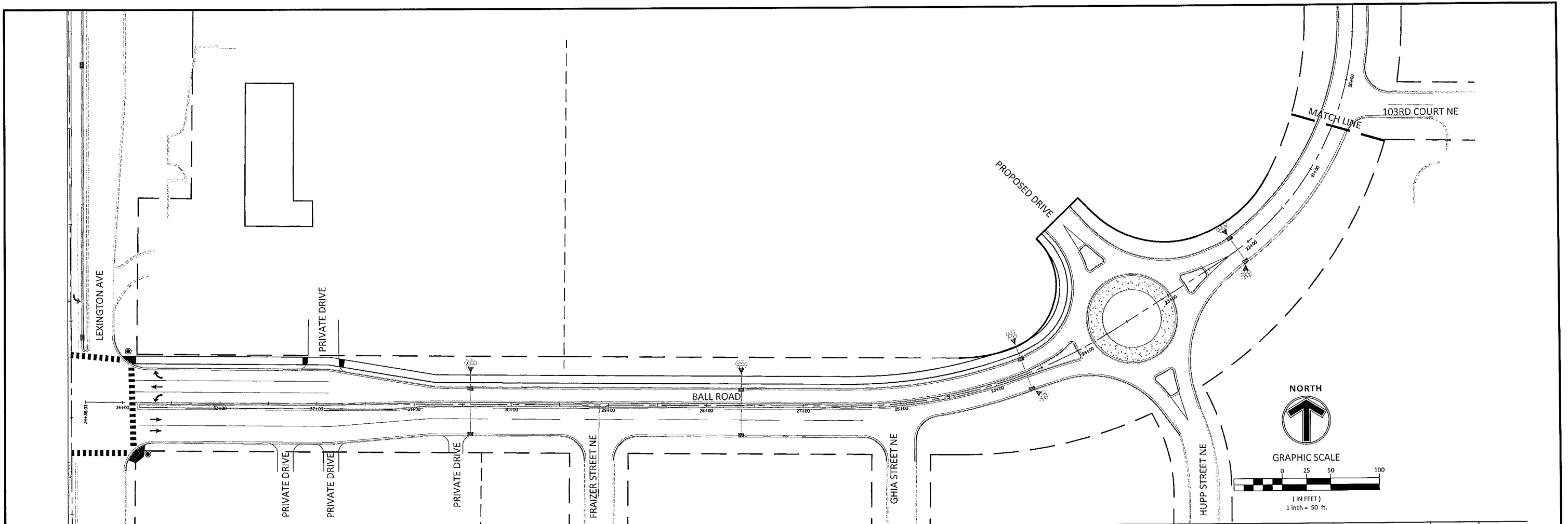
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature: _____
 Name: _____
 Date: _____ License No.: _____

14800 28th Ave. N., Ste 140
 Plymouth, Minnesota 55447
 (763) 476-6010 telephone
 (763) 476-8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
 2013 STREET IMPROVEMENT PROJECT

**BALL ROAD
 PLAN & PROFILE
 STA. 7+00 - STA. 21+00**



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

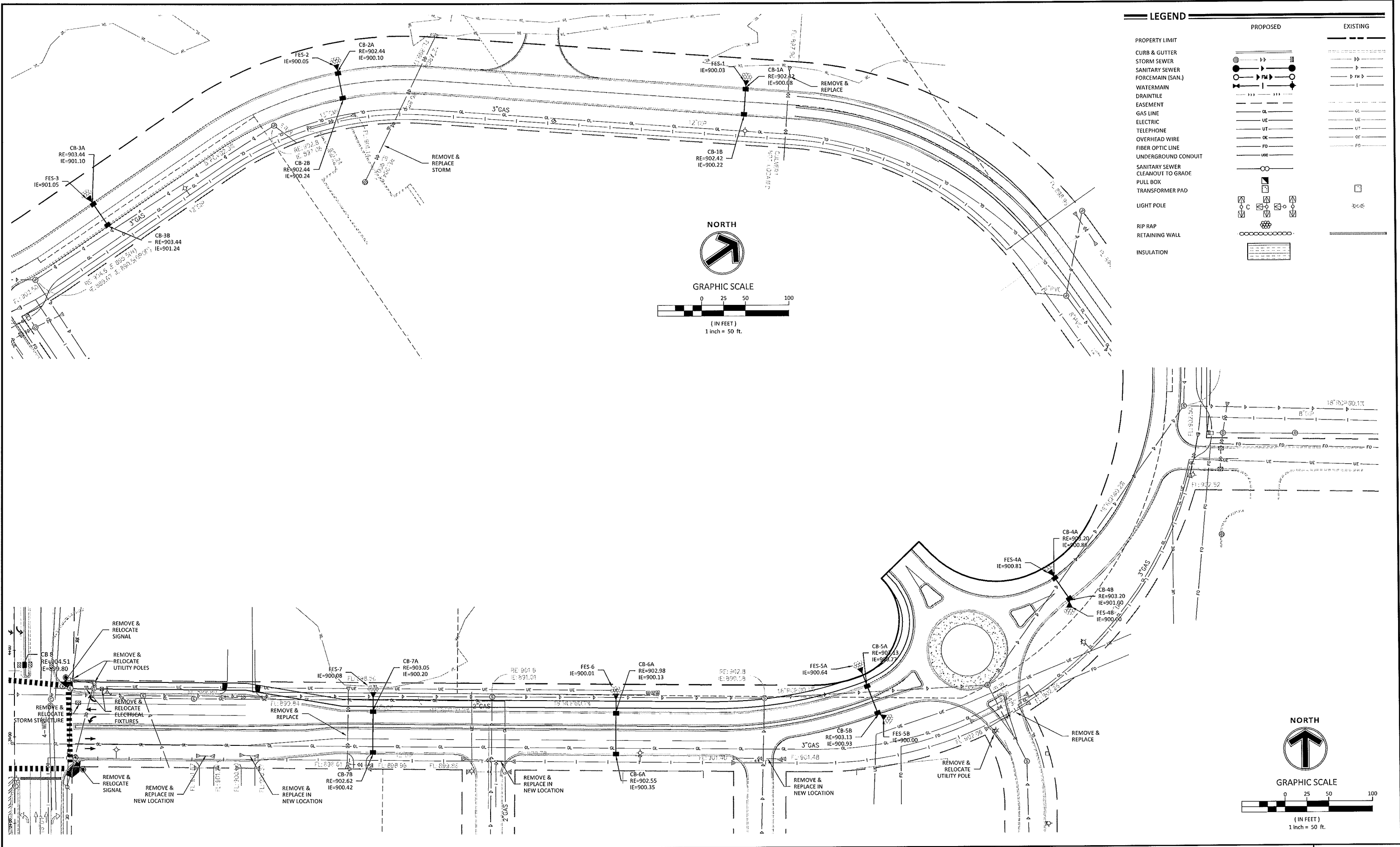
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature: _____
 Name: _____
 Date: _____
 License No.: _____

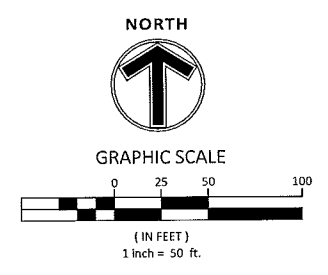
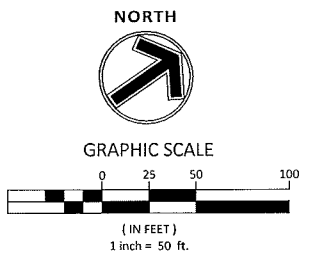
14800 28th Ave. N, Sta 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

**BALL ROAD
 PLAN & PROFILE
 STA. 21+00 - STA. 34+38**



LEGEND	
PROPOSED	EXISTING
PROPERTY LIMIT	---
CURB & GUTTER	---
STORM SEWER	---
SANITARY SEWER	---
FORCEMAIN (SAN.)	---
WATERMAIN	---
DRAIN TILE	---
EASEMENT	---
GAS LINE	---
ELECTRIC	---
TELEPHONE	---
OVERHEAD WIRE	---
FIBER OPTIC LINE	---
UNDERGROUND CONDUIT	---
SANITARY SEWER CLEANOUT TO GRADE	---
PULL BOX	---
TRANSFORMER PAD	---
LIGHT POLE	---
RIP RAP	---
RETAINING WALL	---
INSULATION	---



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

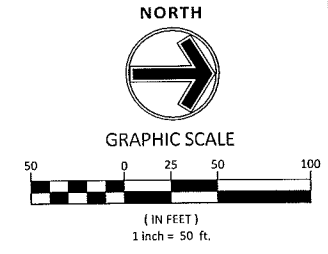
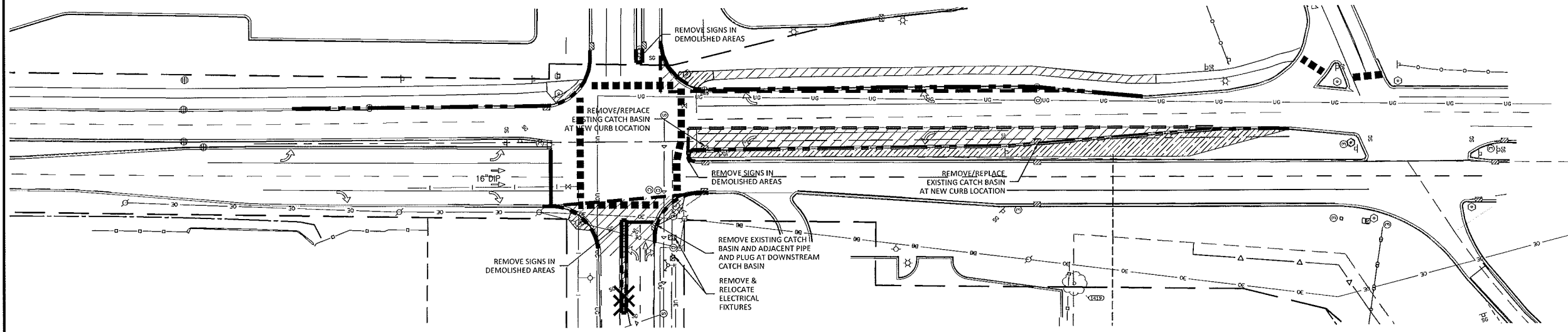
Signature _____
 Name _____
 Date _____ License No. _____

14800 28th Ave. N., Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

**BALL ROAD
 UTILITY PLAN**

LEGEND	
EXISTING	EXISTING
GAS METER	SPRINKLER HEAD
HYDRANT	SPRINKLER VALVE
LIGHT	GUARD RAIL
STORM SEWER	HANDRAIL
DRAIN TILE	EDGE OF TREES
WATERMAIN	TREES / SHRUBS
FORCE MAIN	CONCRETE
SANITARY SEWER	GUARD POLES
OVERHEAD ELECTRIC	SIGNS
UNDERGROUND TELEPHONE	AISLE MARKER SIGNS
UNDERGROUND CABLE TV	CONCRETE CURB
UNDERGROUND ELECTRIC	BITUMINOUS CURB
UNDERGROUND GAS	BUILDING
WIRE FENCE	BARRICADE
IRON FENCE	
WOOD FENCE	
CHAIN LINK FENCE	
STONE RETAINING WALL	
REMOVE EXISTING UTILITY LINE	
REMOVE EXIST CONCRETE CURB	
SAW CUT EXIST BITUMINOUS PAVEMENT	
LIMITS OF DEMO AND CLEARING AND GRUBBING	
REMOVE EXISTING BITUMINOUS PAVEMENT	
REMOVE EXISTING BUILDING	
REMOVE EXISTING CONCRETE PAVEMENT	
REMOVE EXISTING GRAVEL DRIVE	
REMOVE EXISTING TREES	
REMOVE EXISTING LANDSCAPE	
REMOVE EXISTING	
REMOVE EXISTING FENCE	



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

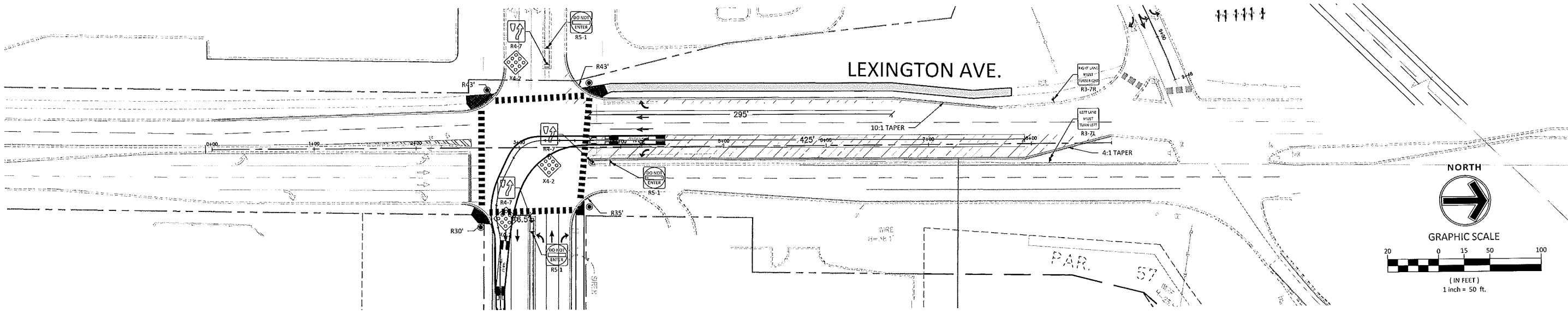
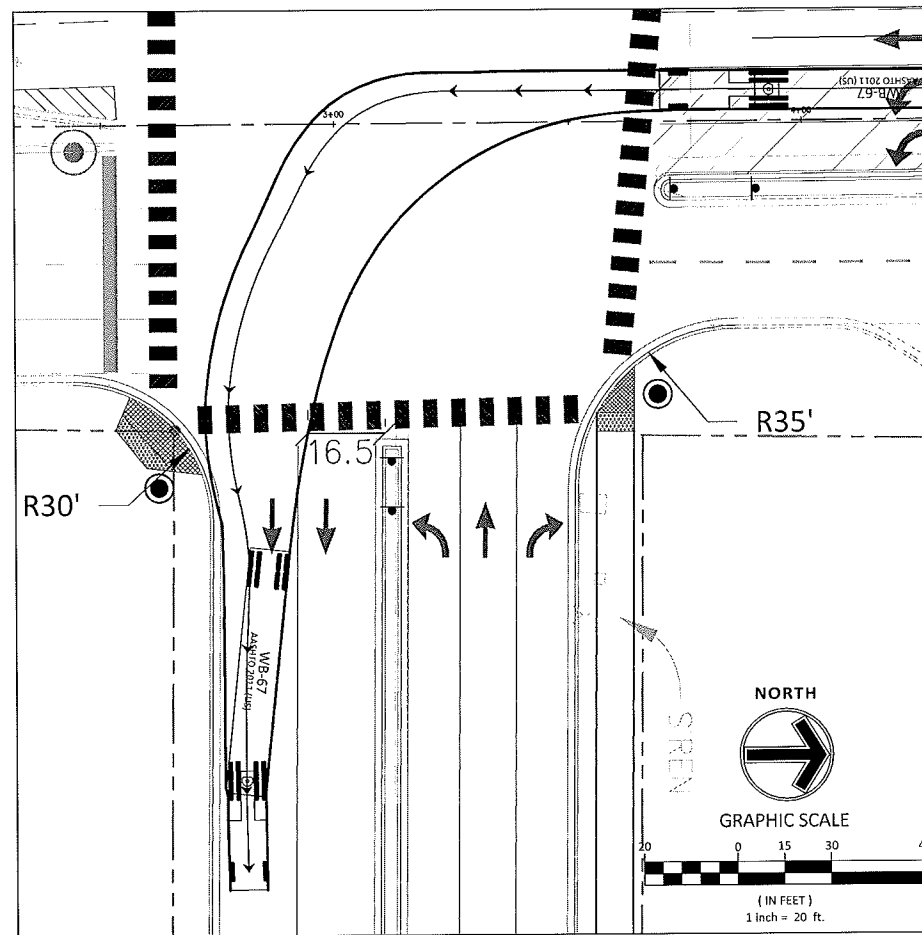
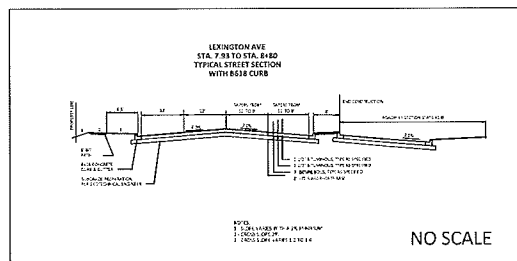
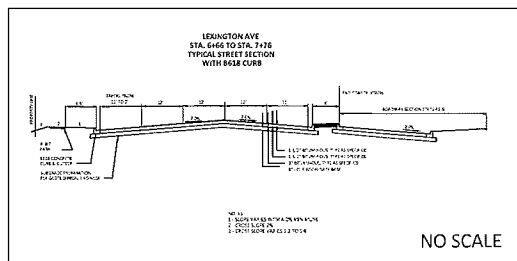
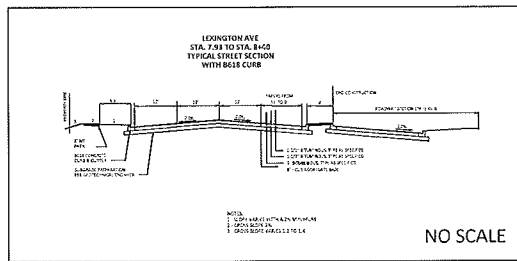
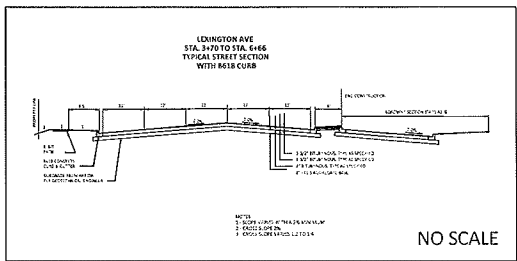
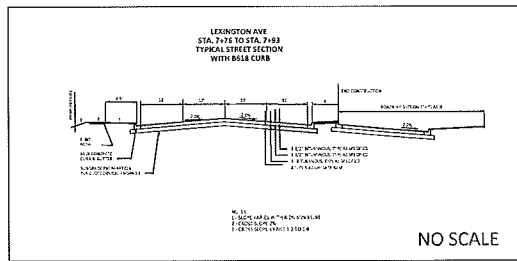
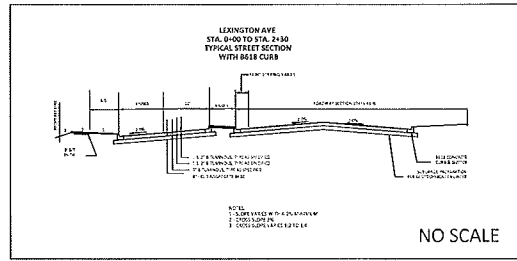
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature _____
 Name _____
 Date _____ License No. _____

14800 28th Ave. N, Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

**LEXINGTON AVENUE
 DEMOLITION PLAN**



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

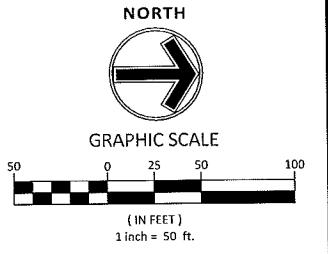
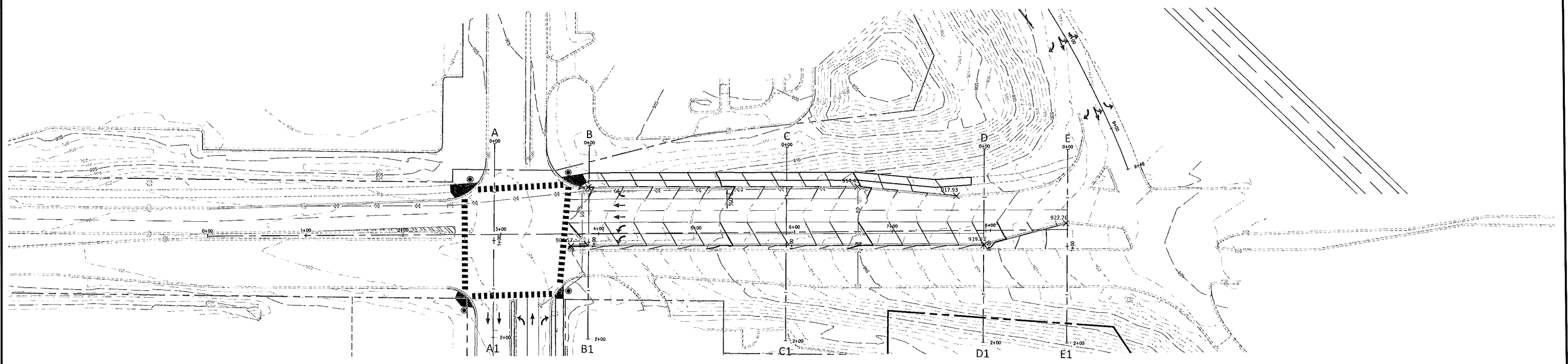
Signature _____
 Name _____
 Date _____ License No. _____

14800 28th Ave. N, Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
 2013 STREET IMPROVEMENT PROJECT

LEXINGTON AVENUE
 SITE PLAN

LEGEND		PROPOSED	EXISTING
PROPERTY LIMIT		=====	-----
CURB & GUTTER		====>>>====	====>>>====
STORM SEWER		--->--->---	--->--->---
DRAINTILE		--->>>---	--->>>---
EASEMENT		-----	-----
SPOT ELEVATION		962.5 X	962.5 X
CONTOUR		902	902
RIP RAP		XXXXXX	
OVERFLOW ELEV.		EOF XXX.X	
RETAINING WALL		=====	=====
TREE LINE		-----	-----
SOIL BORINGS		-----	-----
TEMPORARY WETLAND OR POND BUFFER		-----	-----
TIP-OUT CURB		-----	-----



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature _____
 Name _____
 Date _____ License No. _____



mfra
 engineering surveying planning energy

14800 28th Ave. N., Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6910 telephone
 (763) 476.8532 facsimile
 www.mfra.com

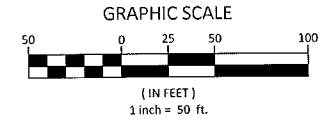
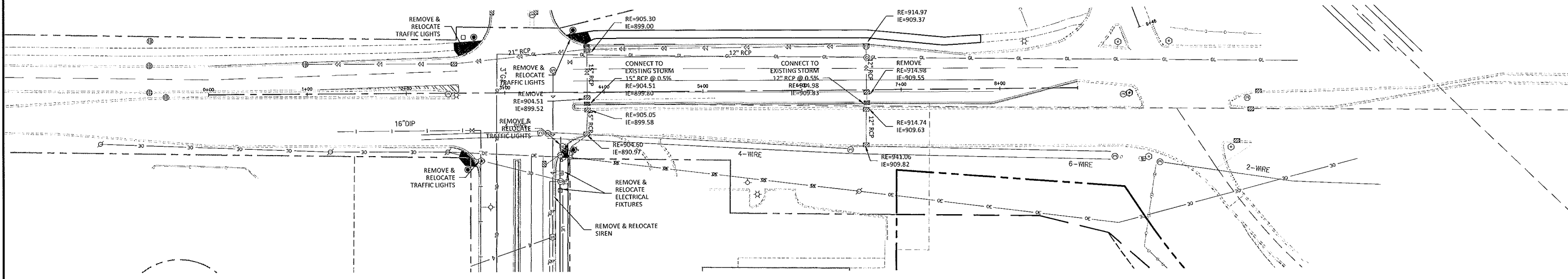
CITY OF BLAINE
 CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

**LEXINGTON AVENUE
 GRADING PLAN**

16 / 22

LEGEND

	PROPOSED	EXISTING
PROPERTY LIMIT	---	---
CURB & GUTTER	--- ---	--- ---
STORM SEWER	---S---	---S---
SANITARY SEWER	---SS---	---SS---
FORCEMAIN (SAN.)	---FM---	---FM---
WATERMAIN	---W---	---W---
DRAIN TILE	---DT---	---DT---
EASEMENT	---E---	---E---
GAS LINE	---G---	---G---
ELECTRIC	---E---	---E---
TELEPHONE	---T---	---T---
OVERHEAD WIRE	---OW---	---OW---
FIBER OPTIC LINE	---FO---	---FO---
UNDERGROUND CONDUIT	---UC---	---UC---
SANITARY SEWER CLEANOUT TO GRADE	---SCG---	---SCG---
PULL BOX	□	□
TRANSFORMER PAD	⊕	⊕
LIGHT POLE	⊕	⊕
RIP RAP	⊕	⊕
RETAINING WALL	---RW---	---RW---
INSULATION	---I---	---I---



No.	Date	By	Revision

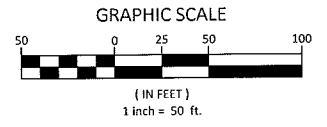
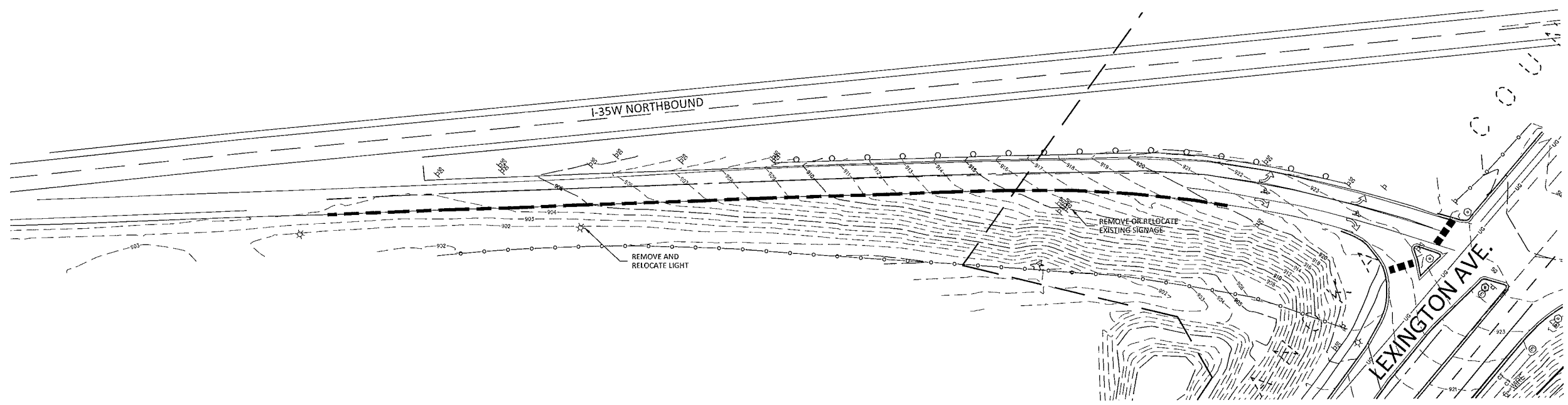
Designed:	I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.
Drawn:	
Checked:	
Approved:	
Signature	
Name	
Date	License No.

14800 28th Ave. N, Ste 140
Plymouth, Minnesota 55447
(763) 476.6010 telephone
(763) 476.8532 facsimile
www.mfra.com

CITY OF BLAINE
CITY PROJECT NO.
2013 STREET IMPROVEMENT PROJECT

**LEXINGTON AVENUE
UTILITY PLAN**

LEGEND			
GAS METER	EXISTING	SPRINKLER HEAD	EXISTING
HYDRANT		SPRINKLER VALVE	
LIGHT		GUARD RAIL	
STORM SEWER		HANDRAIL	
DRAIN TILE		EDGE OF TREES	
WATERMAIN		TREES / SHRUBS	
FORCE MAIN		CONCRETE	
SANITARY SEWER		GUARD POLES	
OVERHEAD ELECTRIC		SIGNS	
UNDERGROUND TELEPHONE		AISLE MARKER SIGNS	
UNDERGROUND CABLE TV		CONCRETE CURB	
UNDERGROUND ELECTRIC		BITUMINOUS CURB	
UNDERGROUND GAS		BUILDING	
WIRE FENCE		BARRICADE	
IRON FENCE			
WOOD FENCE			
CHAIN LINK FENCE			
STONE RETAINING WALL			
REMOVE EXISTING UTILITY LINE			
REMOVE EXIST CONCRETE CURB			
SAW CUT EXIST BITUMINOUS PAVEMENT			
LIMITS OF DEMO AND CLEARING AND GRUBBING			
REMOVE EXISTING BITUMINOUS PAVEMENT			
REMOVE EXISTING BUILDING			
REMOVE EXISTING CONCRETE PAVEMENT			
REMOVE EXISTING GRAVEL DRIVE			



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

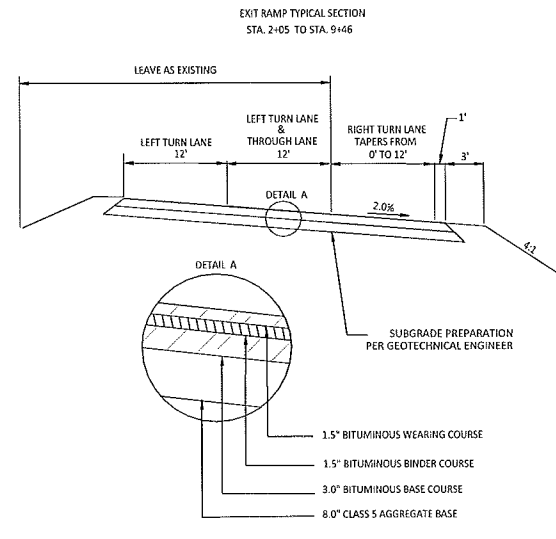
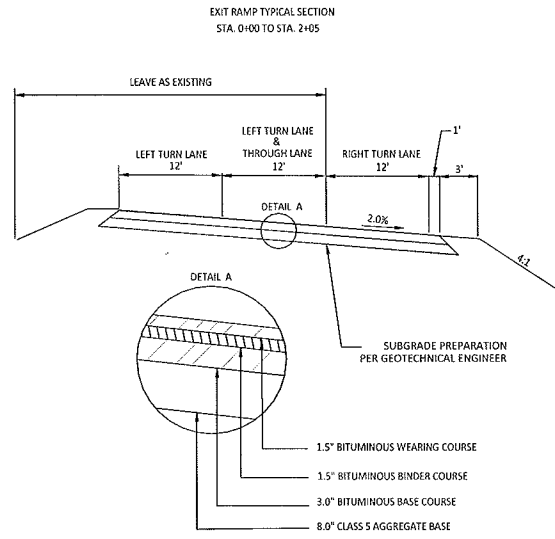
Signature _____
 Name _____
 Date _____ License No. _____

mfra
 engineering surveying planning energy

14800 28th Ave. N, Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
 2013 STREET IMPROVEMENT PROJECT

I-35W EXIT RAMP
 DEMOLITION PLAN

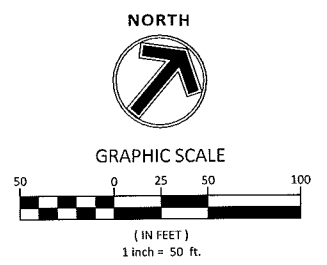
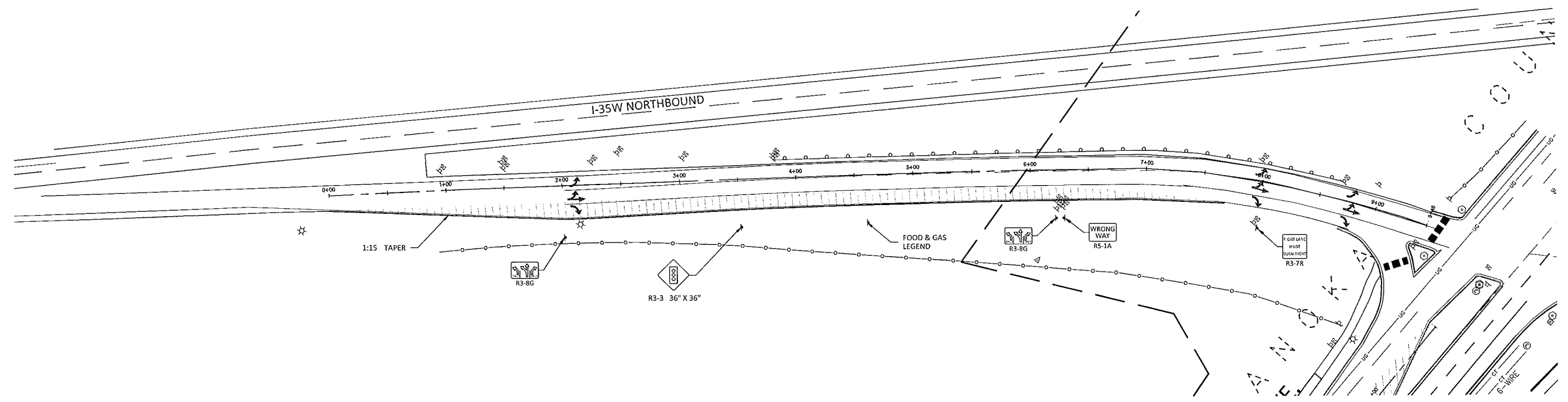


LEGEND

	PROPOSED	EXISTING
PROPERTY LIMIT	---	---
CURB & GUTTER EASEMENT	---	---
BUILDING	---	---
RETAINING WALL	---	---
SAWCUT LINE	---	---
WETLAND LINE	---	---
DNR PROTECTED OHW	---	---
WETLAND BUFFER LINE	---	---
GUIDE RAIL	---	---
SINGLE SIDED SIGN	---	---
DOUBLE SIDED SIGN	---	---
PIPE BOLLARD	---	---
HEAVY DUTY ASPHALT PAVING	---	---
HEAVY DUTY CONCRETE PAVING	---	---
BITUMINOUS TRAIL	---	---

PAINT STRIPING LEGEND

SWSL/4" - SINGLE WHITE SOLID LINE / 4" WIDE EPOXY
 SYSL/4" - SINGLE YELLOW SOLID LINE / 4" WIDE EPOXY



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

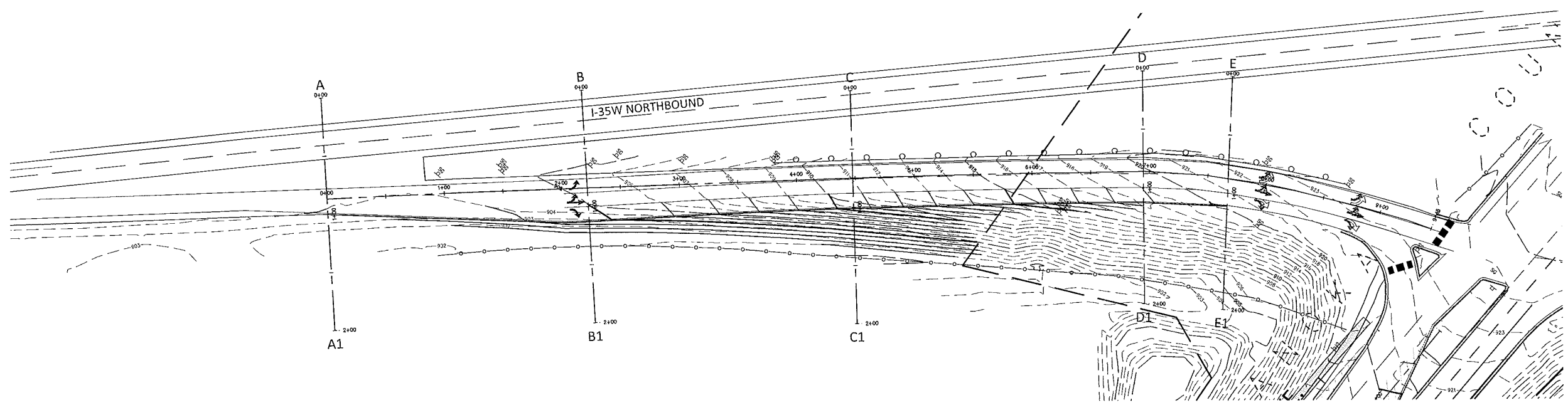
Signature _____
 Name _____
 Date _____ License No. _____

14800 28th Ave. N., Ste 140
 Plymouth, Minnesota 55447
 (763) 476-6010 telephone
 (763) 476-8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO. _____
 2013 STREET IMPROVEMENT PROJECT

I-35W EXIT RAMP
 SITE PLAN

LEGEND		
	PROPOSED	EXISTING
PROPERTY LIMIT	— — — — —	— — — — —
CURB & GUTTER	— — — — —	— — — — —
STORM SEWER	— — — — —	— — — — —
DRAIN TILE	— — — — —	— — — — —
EASEMENT	— — — — —	— — — — —
SPOT ELEVATION	962.5 X	962.5 X
CONTOUR	— — — — —	— — — — —
RIP RAP	— — — — —	— — — — —
OVERFLOW ELEV.	— — — — —	— — — — —
RETAINING WALL	— — — — —	— — — — —
TREE LINE	— — — — —	— — — — —
SOIL BORINGS	— — — — —	— — — — —
TEMPORARY WETLAND OR POND BUFFER	— — — — —	— — — — —
TIP-OUT CURB	— — — — —	— — — — —



No.	Date	By	Revision

Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional ENGINEER under the laws of the State of Minnesota.

Signature _____
 Name _____
 Date _____ License No. _____

14800 28th Ave. N., Ste 140
 Plymouth, Minnesota 55447
 (763) 476.6010 telephone
 (763) 476.8532 facsimile
 www.mfra.com

CITY OF BLAINE
 CITY PROJECT NO.
 2013 STREET IMPROVEMENT PROJECT

I-35W EXIT RAMP
 GRADING PLAN