

PROJECT LOCATIONS

- High Ridge Elementary
- Brennan Woods Elementary
- Northwest High School
- Windsor K-12
- Maple Grove Elementary
- Athena Elementary

APPROVED BY:
JEFFERSON COUNTY, MISSOURI

JASON JONAS, PE
DIRECTOR OF PUBLIC WORKS

DATE 3/15/17

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SHEET 1 OF 17

	EXISTING CONTOUR (1 FOOT)
	EXISTING CONTOUR (5 FOOT)
	EXISTING ROADWAY ROW
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING EDGE OF PAVEMENT
	ROADWAY CENTERLINE
	ROADWAY LAND LINE
	EXISTING PHONE LINE
	EXISTING POWER LINE
	EXISTING STORM SEWER
	EXISTING GAS MAIN
	EXISTING WATER MAIN
	EXISTING CABLE
	EXISTING FENCE
	EXISTING WALL
	EX CONCRETE DRAINAGE STRUCTURE
	PROPOSED TRENCHED CONDUIT
	EXISTING LIGHT POLE
	EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STREET SIGN
	EXISTING POWER POLE
	PROPOSED POWER/METER SUPPLY
	EXISTING TREE
	EXISTING GUY
	EXISTING FIRE HYDRANT
	EXISTING TELEPHONE POLE WITH RISER
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING MAILBOX
	PROPOSED ROAD SIGN
	REMOVE AND REPLACE
	RIGHT OF WAY
	EDGE OF PAVEMENT
	DO NOT DISTURB
	USE IN PLACE
	TO BE REMOVED

 amec foster wheeler	SUBMITTED BY: AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. 15933 Clayton Road, Suite 215 Ballwin, Missouri 63011 Phone: 636-200-5100 Fax: 636-386-3804 Discipline: Engineering Corporation Corp Cert. of Auth. #2004005097	 JEFFERSON COUNTY 1848 MISSOURI	COUNTY OF JEFFERSON DEPARTMENT OF PUBLIC WORKS 725 MAPLE STREET ROOM 104 HILLSBORO, MO 63050 (636) 797-5340	DATE	DESCRIPTION
		DATE			
DATE PREPARED 12/27/16					
ROUTE -	STATE MO				
DISTRICT -	SHEET NO. 1				
COUNTY JEFFERSON					
JOB NO. 325116022					
CONTRACT ID. -					
PROJECT NO. PW 17000TRS					

GENERAL PROJECT NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL JEFERSON COUNTY CODES, ORDINANCES, AND STANDARDS.
2. EXISTING UNDERGROUND AND OVERHEAD FACILITIES, STRUCTURES, AND UTILITIES IF SHOWN ON THESE PLANS, SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF THE LOCATIONS OF ALL EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE VERIFIED PRIOR TO ANY GRAADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. CALL THE MISSOURI ONE-CALL SYSTEM AT 1-800-DIG-RITE (344-7483) FOR UTILITY LOCATIONS.
3. TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS AND TO MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) STANDARDS.
4. SIGNS SHALL BE INSTALLED ACCORDING TO MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) STANDARDS AND WILL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.
5. FLASHING BEACON SYSTEMS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL SERVICE WORK WITH AMERENUE AND IT SHALL CONFORM TO AMERENUE'S ELECTRIC SERVICE MANUAL.



S4-3P



R2-1



S5-3



S4-4P



S1-1



W16-9P



W16-7P

SUMMARY OF QUANTITIES

ITEM DESCRIPTION	UNIT	ATHENA	BRENNAN WOODS	HIGH RIDGE	MAPLE GROVE	NORTHWEST	WINDSOR	TOTAL
REMOVAL OF IMPROVEMENTS	LUMP SUM	1	1	1	1	1	1	6
TRAFFIC CONTROL	LUMP SUM	1	1	1	1	1	1	6
MOBILIZATION	LUMP SUM	1	1	1	1	1	1	6
CONDUIT, 3 IN., RIGID, IN TRENCH	LIN. FT	-	50	90	330	-	-	470
TRENCHING TYPE I	LIN. FT	-	50	90	330	-	-	470
CONDUIT, 3 IN., RIGID, BORED	LIN. FT	-	-	-	60	-	-	60
AC POWERED FLASHING BEACON SYSTEM	EACH	-	2	1	2	-	-	5
SOLAR POWERED FLASHING BEACON SYSTEM	EACH	2	-	1	1	3	2	9
CABLE, 6 AWG, 3 CONDUCTOR	LIN. FT	-	50	90	390	-	-	530
CABLE, 2 AWG, 3 CONDUCTOR	LIN. FT	-	10	5	10	-	-	25
POWER SUPPLY ASSEMBLY, TYPE 2, 240 / 120 VOLT SERVICE	EACH	-	2	1	2	-	-	5
POWER SUPPLY CONNECTION (BY OTHERS)	EACH	-	2	1	2	-	-	5
ROADWAY SIGN, TYPE SHR2L-1	SQ FT	-	5	-	21	26	5	57
U-CHANNEL POST, 3 LB	LIN. FT	-	13	-	39	52	13	117

SUMMARY OF QUANTITIES,
NOTES AND SIGN DETAILS
G-002
SHEET 2 OF 17

DATE

DATE PREPARED
12/27/16

ROUTE
-

STATE
MO

DISTRICT
-

SHEET NO.
2

COUNTY
JEFFERSON

JOB NO.
325116022

CONTRACT ID.
-

PROJECT NO.
PW 17000TRS

DESCRIPTION

DATE

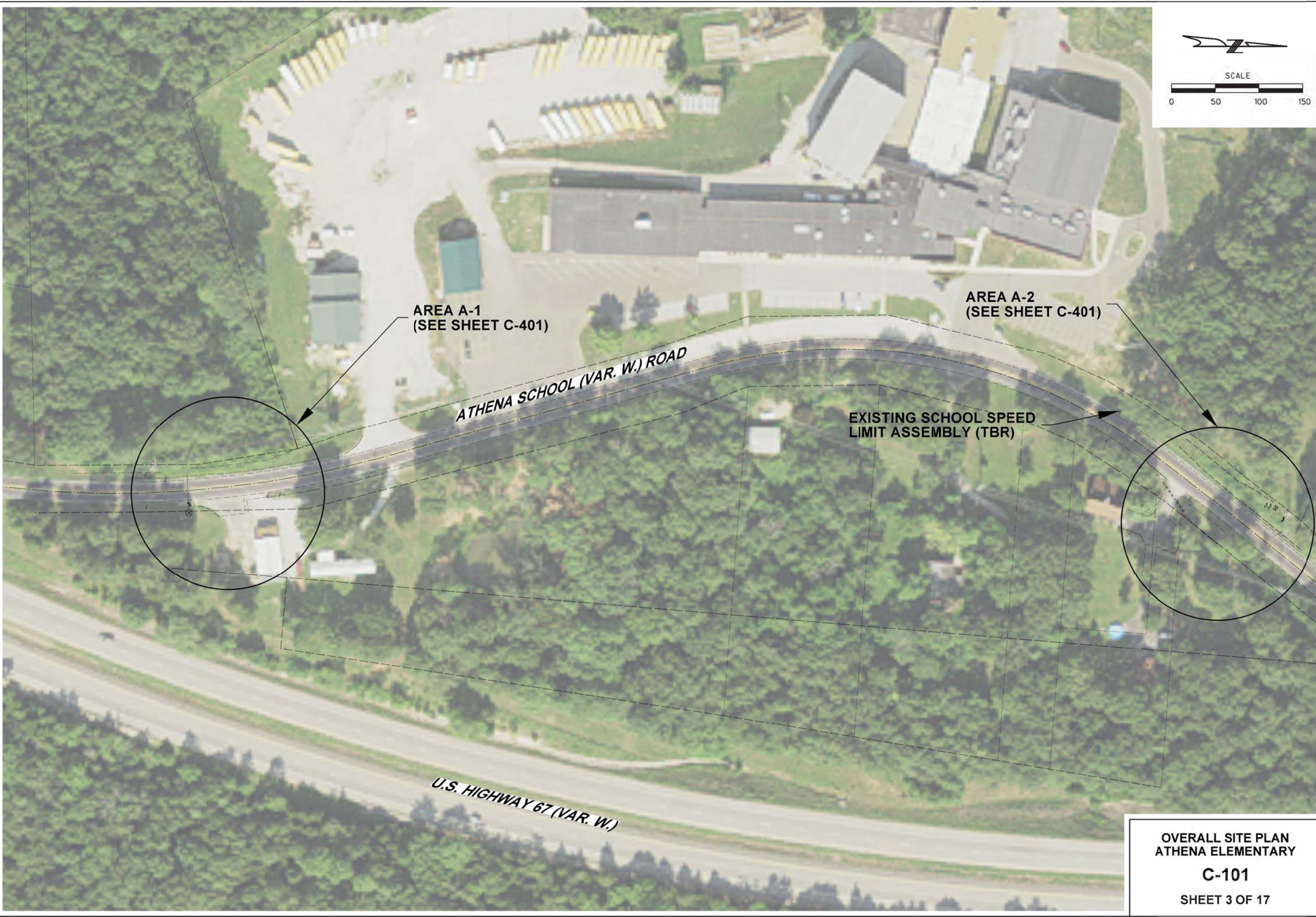
COUNTY OF JEFFERSON
DEPARTMENT OF
PUBLIC WORKS

725 MAPLE STREET ROOM 104
HILLSBORO, MO 63050
(636) 797-5340

JEFFERSON COUNTY
MISSOURI
1818

SUBMITTED BY: AMEC FOSTER WHEELER
ENVIRONMENT &
INFRASTRUCTURE, INC.
15933 Clayton Road, Suite 215
Ballwin, Missouri 63011
Phone: 636-200-5100
Fax: 636-386-3804
Discipline: Engineering Corporation
Corp Cert. of Auth. #2004005097

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



**AREA A-2
(SEE SHEET C-401)**

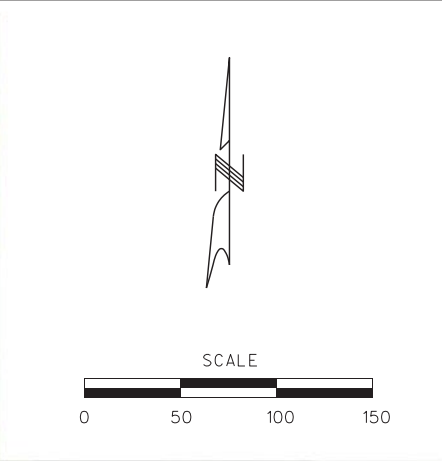
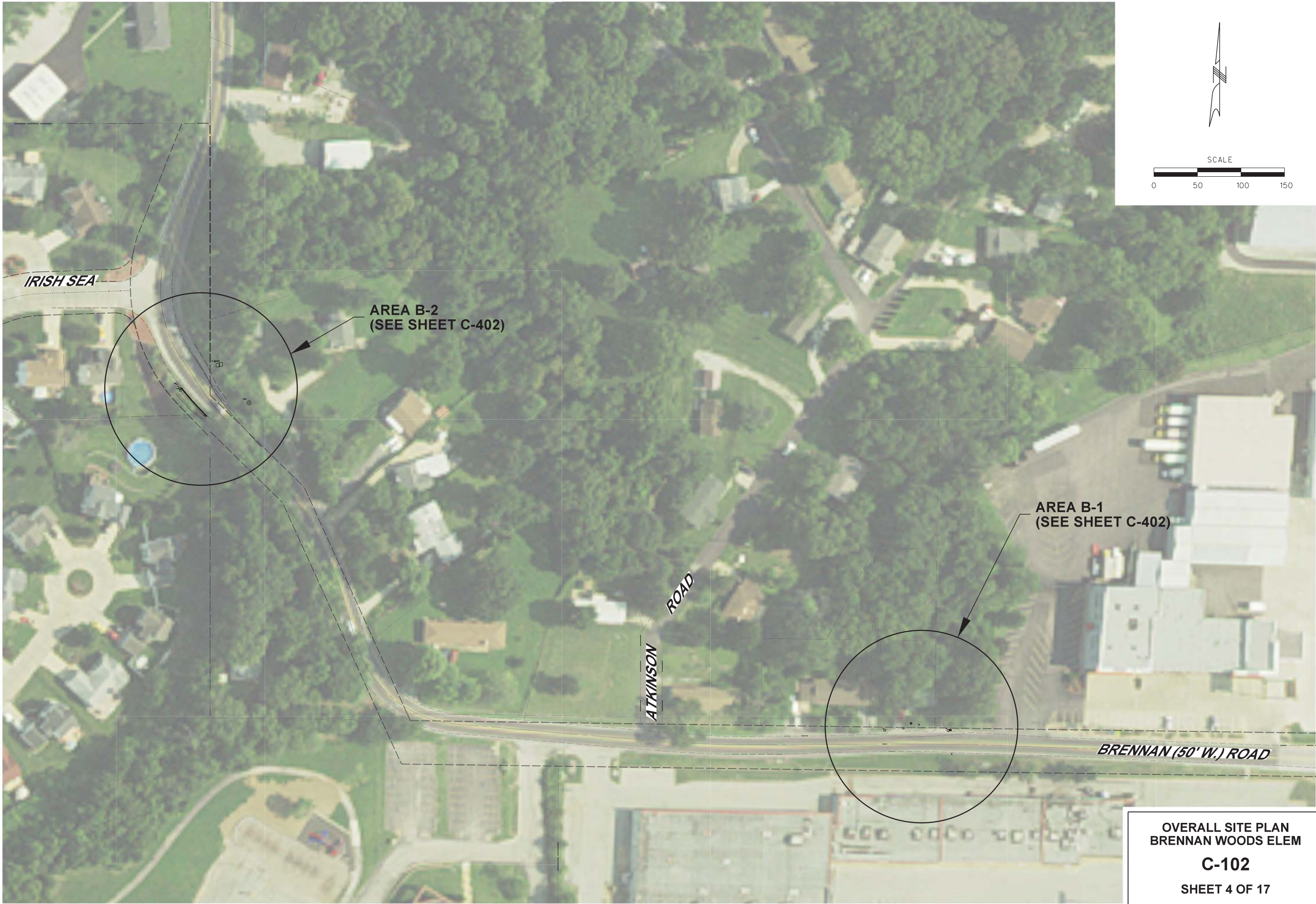
**EXISTING SCHOOL SPEED
LIMIT ASSEMBLY (TBR)**

U.S. HIGHWAY 67 (VAR. W.)

OVERALL SITE PLAN
ATHENA ELEMENTARY
C-101
SHEET 3 OF 17

[illegible]

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DATE	
DATE PREPARED 12/27/16	
ROUTE -	STATE MO
DISTRICT -	SHEET NO. 4
COUNTY JEFFERSON	
JOB NO. 325116022	
CONTRACT ID. -	
PROJECT NO. PW 17000TRS	

DATE	DESCRIPTION

COUNTY OF JEFFERSON
DEPARTMENT OF
PUBLIC WORKS

725 MAPLE STREET ROOM 104
HILLSBORO, MO 63050
(636) 797-5340



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OVERALL SITE PLAN
BRENNAN WOODS ELEM

C-102

SHEET 4 OF 17

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OVERALL SITE PLAN
HIGH RIDGE ELEM
C-103
SHEET 5 OF 17

DATE

DATE PREPARED

ROUTE

DISTRICT

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

12/27/16

MO

5

JEFFERSON

325116022

-

PW 17000TRS

DATE	DESCRIPTION

COUNTY OF JEFFERSON
DEPARTMENT OF
PUBLIC WORKS



725 MAPLE STREET ROOM 104
HILLSBORO, MO 63050
(636) 797-5340

SUBMITTED BY:



amec
foster
wheeler

AMEC FOSTER WHEELER
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OVERALL SITE PLAN
MAPLE GROVE ELEMENTARY
C-104
SHEET 6 OF 17

DATE

DATE PREPARED

ROUTE

DISTRICT

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

12/27/16

MO

6

JEFFERSON

325116022

-

PW 17000TRS

DATE	DESCRIPTION

COUNTY OF JEFFERSON
DEPARTMENT OF
PUBLIC WORKS



725 MAPLE STREET ROOM 104
HILLSBORO, MO 63050
(636) 797-5340

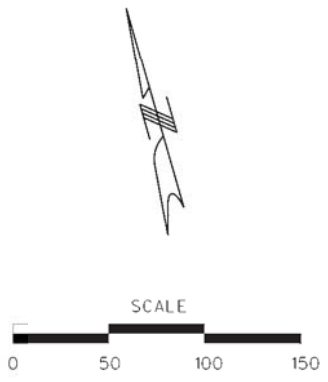
SUBMITTED BY:



amec
foster
wheeler

AMEC FOSTER WHEELER
ENVIRONMENT &
INFRASTRUCTURE, INC.
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OVERALL SITE PLAN
WINDSOR K-12
C-106
SHEET 8 OF 17

DATE

DATE PREPARED

12/27/16

ROUTE

STATE

MO

DISTRICT

SHEET NO.

8

COUNTY

JEFFERSON

JOB NO.

325116022

CONTRACT ID.

PROJECT NO.

PW 17000TRS

DATE	DESCRIPTION

COUNTY OF JEFFERSON
DEPARTMENT OF
PUBLIC WORKS

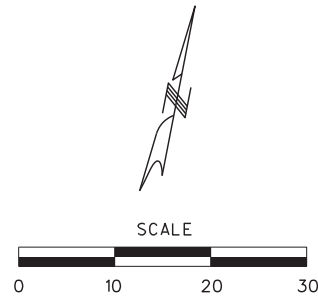
725 MAPLE STREET ROOM 104
HILLSBORO, MO 63050
(636) 797-5340

JEFFERSON COUNTY
MISSOURI
1820

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PROPOSED AREA A-2



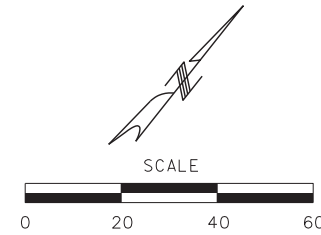
DESOTO 73 SCHOOL DISTRICT
3300 ATHENA SCHOOL RD

D JONES FARMS, LLC
3099 ATHENA OAKS DR

**INSTALL SOLAR POWER
FLASHING BEACON SYSTEM
WITH SCHOOL SIGN S4-3P,
SPEED LIMIT SIGN R2-1, &
SUPPLEMENTAL SIGN S4-4P**

**REMOVE EXISTING
REDUCED SCHOOL SPEED
LIMIT AHEAD SIGN (S4-5)
NOT NEEDED PER MUTCD**

PROPOSED AREA A-1



DESOTO 73 SCHOOL DISTRICT
3300 ATHENA SCHOOL RD

D JONES FARMS, LLC
3099 ATHENA OAKS DR

REMOVE EXISTING SIGN

**INSTALL SOLAR POWERED
FLASHING BEACON SYSTEM
— WITH SCHOOL SIGN S4-3P,
SPEED LIMIT SIGN R2-1, &
SUPPLEMENTAL SIGN S4-4P**

**REMOVE EXISTING
REDUCED SCHOOL SPEED
LIMIT AHEAD SIGN (S4-5)
NOT NEEDED PER MUTCD**

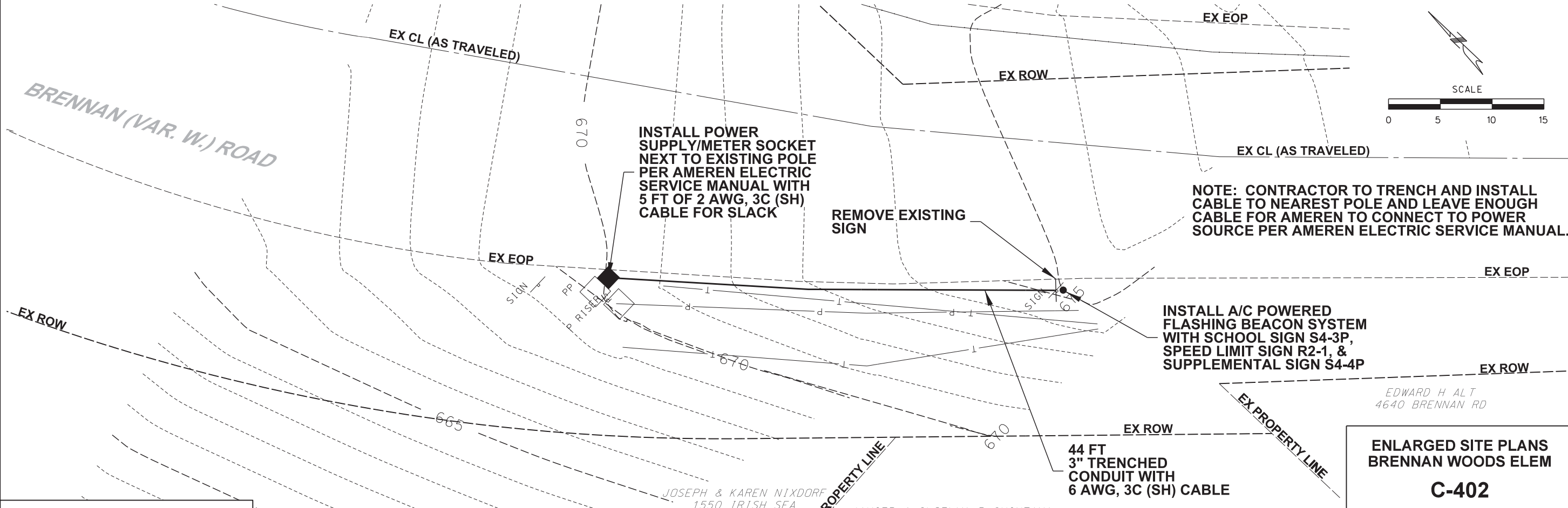
ENLARGED SITE PLANS ATHENA ELEMENTARY

C-401

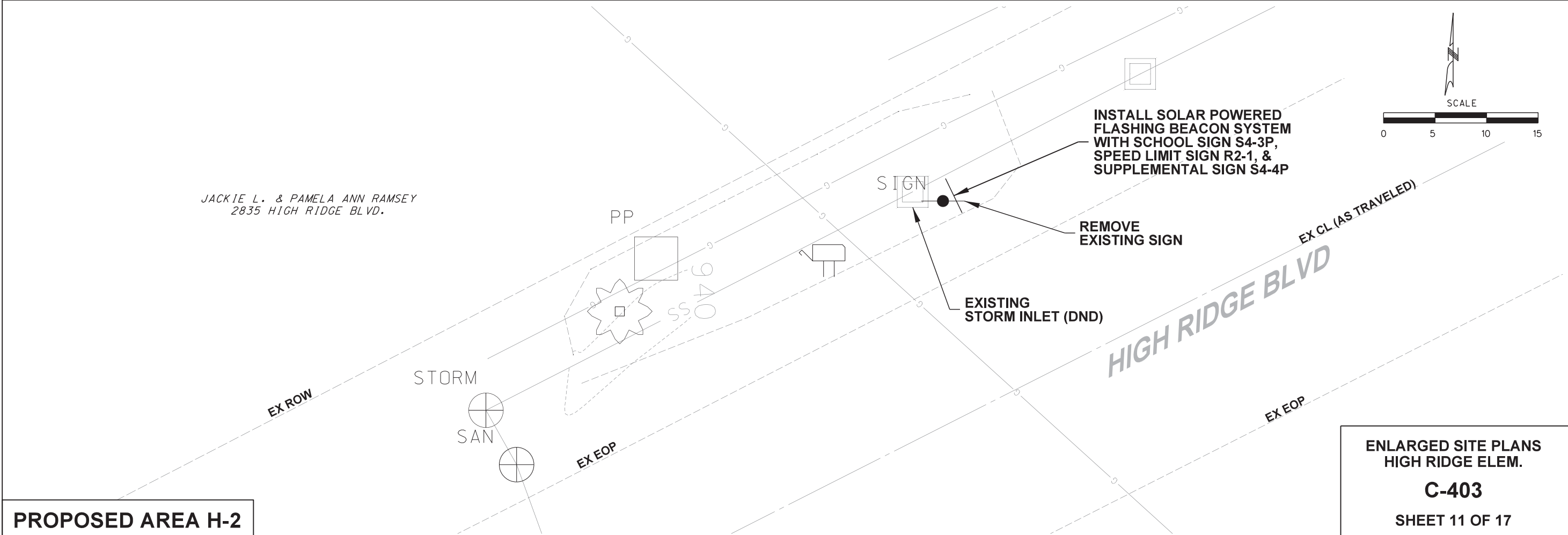
SHEET 9 OF 17

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PROPOSED AREA B-2

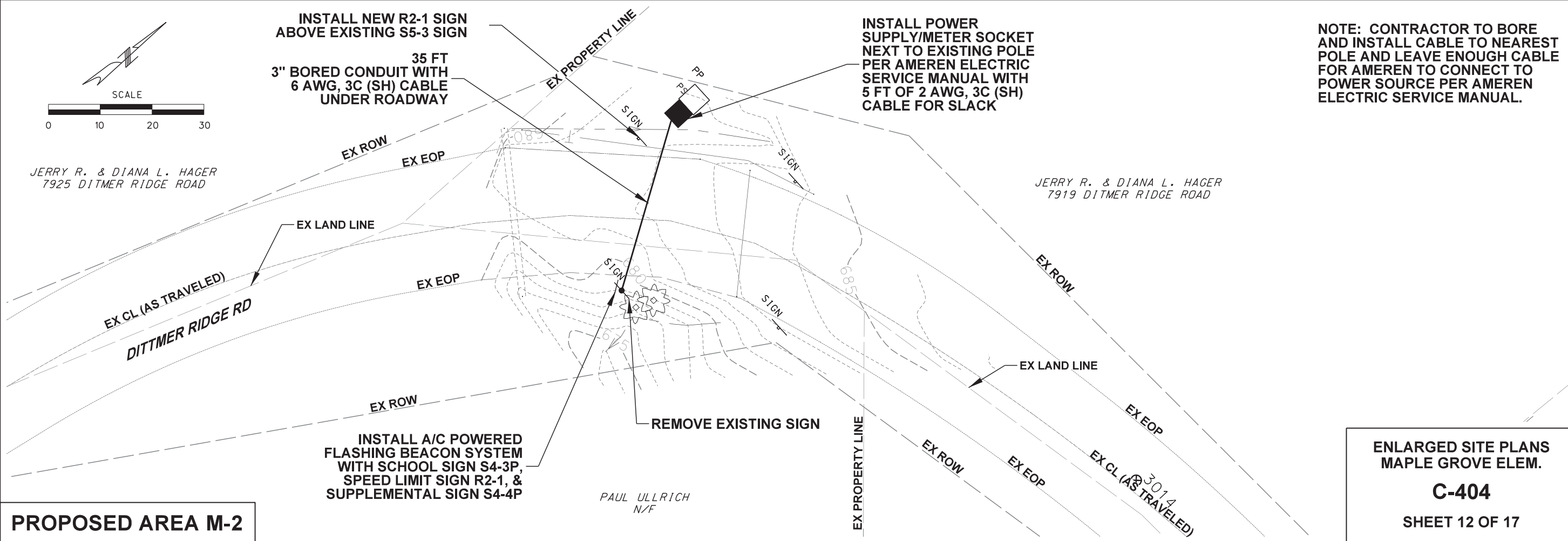
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PROPOSED AREA H-2



SUBMITTED BY: AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. 15933 Clayton Road, Suite 215 Ballwin, Missouri 63011 Phone: 636-200-5100 Fax: 636-386-3804					
					
 JEFFERSON COUNTY MISSOURI 1818 COUNTY OF JEFFERSON DEPARTMENT OF PUBLIC WORKS 725 MAPLE STREET ROOM 104 HILLSBORO, MO 63050 (636) 797-5340					
DATE	DESCRIPTION				
PROJECT NO. PW 17000TRS					
CONTRACT ID. -					
JOB NO. 325116022					
COUNTY JEFFERSON					
DISTRICT	ROUTE -		STATE MO		SHEET NO. 11
DATE PREPARED 12/27/16					
DATE					

PROPOSED AREA M-2



NOTE: CONTRACTOR TO BORE AND INSTALL CABLE TO NEAREST POLE AND LEAVE ENOUGH CABLE FOR AMEREN TO CONNECT TO POWER SOURCE PER AMEREN ELECTRIC SERVICE MANUAL.

**ENLARGED SITE PLANS
MAPLE GROVE ELEM.**

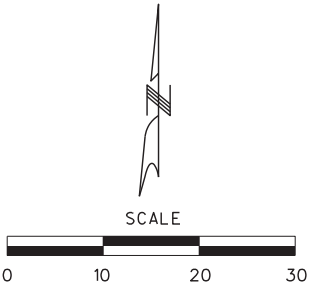
C-404

SHEET 12 OF 17

[illegible][illegible]

PROPOSED AREA M-3

ST. MARTINS UNITED CHURCH OF CHRIST
7890 DITMER RIDGE ROAD



INSTALL SOLAR POWERED
FLASHING BEACON SYSTEM
WITH SCHOOL SIGN S4-3P,
SPEED LIMIT SIGN R2-1, &
SUPPLEMENTAL SIGN S4-4P

BILLY G. HANDLEY ETAL
N/F

DATE

DATE PREPARED
12/27/16

ROUTE
-

STATE
MO

DISTRICT
-

SHEET NO.
13

COUNTY
JEFFERSON

JOB NO.
325116022

CONTRACT ID.
-

PROJECT NO.
PW 17000TRS

DATE	DESCRIPTION

COUNTY OF JEFFERSON
DEPARTMENT OF
PUBLIC WORKS

725 MAPLE STREET ROOM 104
HILLSBORO, MO 63050
(636) 797-5340



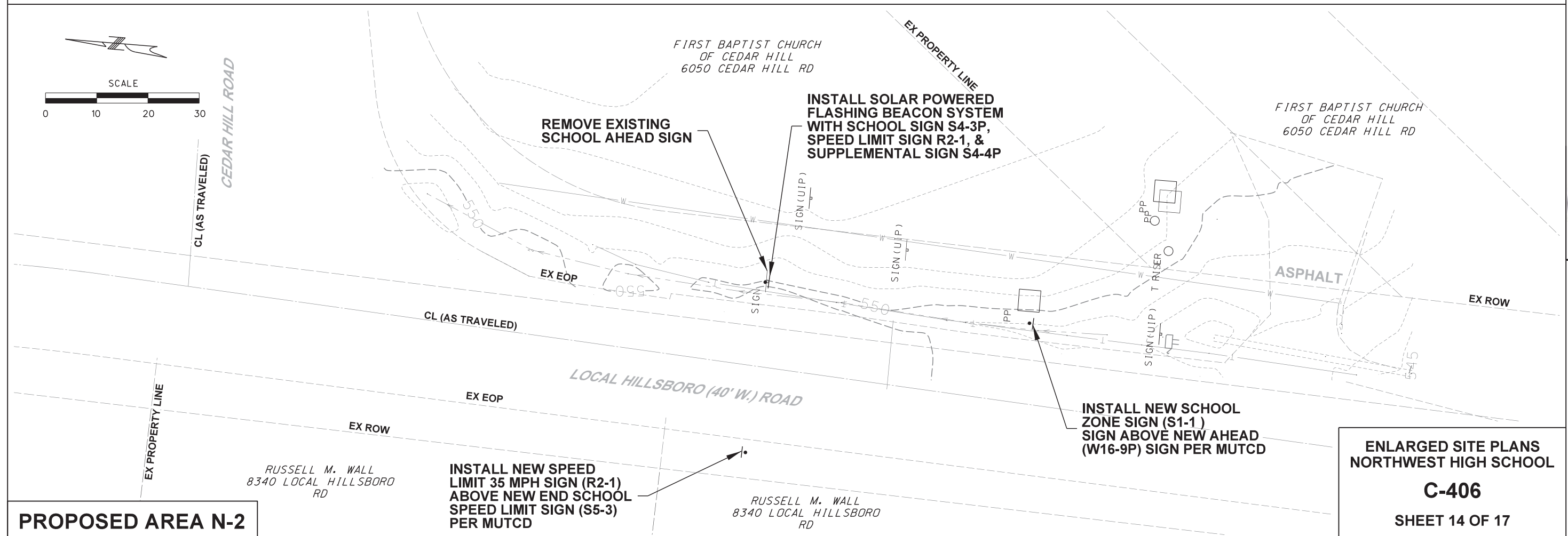
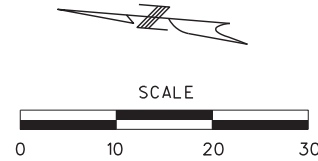
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ENVIRONMENT & INFRASTRUCTURE, INC.
15933 Clayton Road, Suite 215
Ballwin, Missouri 63011
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ENLARGED SITE PLANS
MAPLE GROVE ELEM.
C-405
SHEET 13 OF 17

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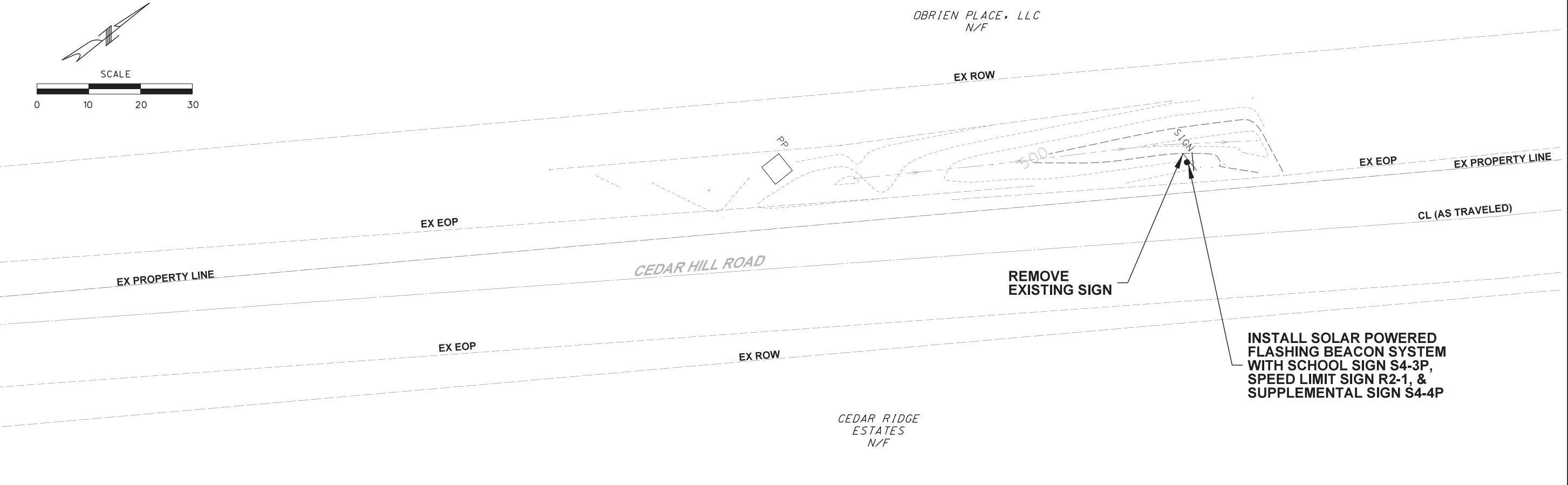
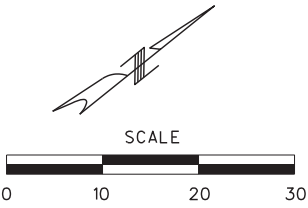
PROPOSED AREA N-2



DATE	
DATE PREPARED 12/27/16	
ROUTE -	STATE MO
DISTRICT -	SHEET NO. 14
COUNTY JEFFERSON	
JOB NO. 325116022	
CONTRACT ID. -	
PROJECT NO. PW 17000TRS	
DATE	DESCRIPTION
	COUNTY OF JEFFERSON DEPARTMENT OF PUBLIC WORKS
	725 MAPLE STREET ROOM 104 HILLSBORO, MO 63050 (636) 797-5340
	
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PROPOSED AREA N-3



DATE	
DATE PREPARED 12/27/16	
ROUTE -	STATE MO
DISTRICT -	SHEET NO. 15
COUNTY JEFFERSON	
JOB NO. 325116022	
CONTRACT ID. -	
PROJECT NO. PW 17000TRS	
DATE	DESCRIPTION
COUNTY OF JEFFERSON DEPARTMENT OF PUBLIC WORKS 725 MAPLE STREET ROOM 104 HILLSBORO, MO 63050 (636) 797-5340	
	
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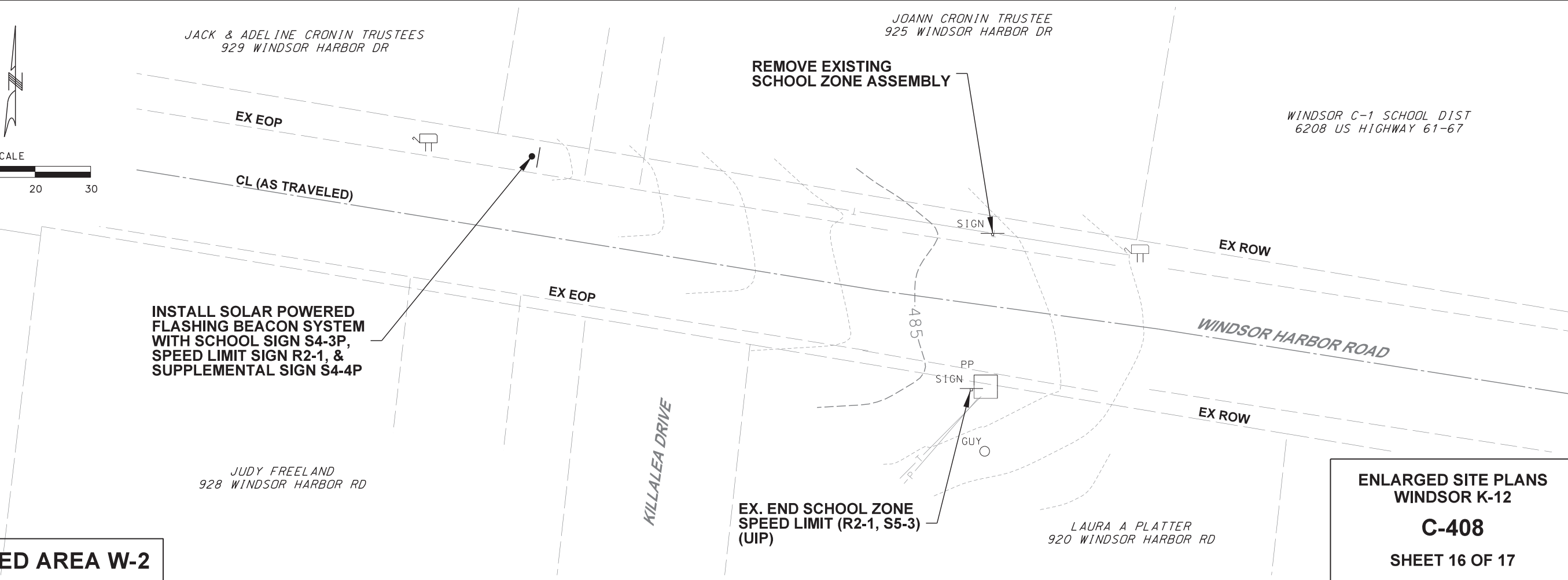
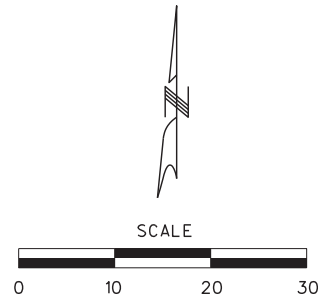
ENLARGED SITE PLANS
NORTHWEST HIGH SCHOOL

C-407

SHEET 15 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PROPOSED AREA W-2



**ENLARGED SITE PLANS
WINDSOR K-12
C-408
SHEET 16 OF 17**

[illegible][illegible]

17 FEET MAXIMUM HEIGHT FROM THE ELEVATION AT THE EDGE OF SHOULDER OR TOP OF CURB

TOP OF POST MOUNT 12 INCH SIGNAL INDICATION WITH 5 INCH BACK PLATE AND TUNNEL VISOR

12 INCHES

URBAN - MINIMUM 2 FEET FROM FACE OF CURB OR MINIMUM 6 FEET FROM EDGE OF SHOULDER

SCHOOL S4-3P SIGN AND SPEED LIMIT R2-1 SIGN

CONTROL ENCLOSURE IF MOUNTED ON POST (BACK OF POST)

SUPPLEMENTAL S4-4P SIGN

7 FEET MINIMUM

6 FEET MINIMUM

MEASURED FROM THE ELEVATION AT THE EDGE OF SHOULDER OR TOP OF CURB

MEASURED FROM THE ELEVATION AT THE EDGE OF SHOULDER OR TOP OF CURB

4 1/2 INCH PEDESTAL POST AND BASE. LENGTH OF POST AS NEEDED TO MEET SPECIFIED DIMENSIONS

TYPE C CONCRETE BASE

2" MINIMUM RIGID CONDUIT AND WIRING

Diagram illustrating the components and dimensions of a vertical electrical post assembly:

- W6X9 OR W6X15 POST, GALVANIZED**: The main vertical support structure.
- METER SOCKET (IF REQUIRED)**: Located near the top of the post.
- CONTROL ENCLOSURE**: Mounted on the post.
- SERVICE DISCONNECT BOX (REQUIRED)**: Mounted on the post.
- CONDUIT HUBS, THREADED WITH SEALING WASHERS**: Connectors for the conduit.
- GROUND LINE**: The horizontal reference line for the ground level.
- GROUND ROD, 3/4" X 10' MINIMUM**: A vertical rod extending from the ground line into the ground.
- ELECTRICALLY BONDED TO CONTROL ENCLOSURE AND DISCONNECT WITH #6 AWG BARE COPPER WIRE**: Connection detail for the ground rod.
- CONDUIT AND CABLE* FROM POWER SOURCE AND/OR ACTIVATION BUTTON**: Cables entering the post from the top.
- CONDUIT/CABLE TO FLASHER**: Cables exiting the post from the bottom.
- CONCRETE BASE**: The foundation for the post.
- 18" DIAMETER**: The diameter of the concrete base.
- 3 FEET MINIMUM**: Dimension indicating the height from the ground line to the bottom of the control enclosure.
- 3' - 5'6"**: Dimension indicating the total height of the post assembly above the ground line.

65 Watt Solar Panel

See Mounting Detail

12" Yellow LED's in black housing, single signal sections with tunnel visors, top and bottom brackets, all black.

Single 12" Yellow LED with tunnel visor

Sign panels, typical (See School Flashing Beacon Sign detail).

12' Min.
15' Max.

U-Bolt sign clamp assembly with 5/16 inch sign mounting hardware. (PELCO SH-0206 or equivalent).

Two compartment flasher cabinet.
Model -TCSFLN2025. Dimensions - 14" wide by 24" high by 11" deep, with mounting hardware including flasher, pager system, time switch and time switch harness. (NAZTEC Part #50040-2053 or equivalent).

"Puck" style antenna required. (NAZTEC or equivalent).

Cabinet mounting brackets to be PELCO SE-1100 with gaskets for cabinet.

Corbin lock

Pole - Spun aluminum schedule 80, 4.5 inch O.D. X .237 inch wall.

54" Min.
60" Max.

Aluminum slip fit collar

Aluminum pedestal base assembly with aluminum door and grounding lug.

Final grade.

Pull box with two conduit sweeps req'd.

20 LF 5/8 inch diameter copper clad ground rod, continuous or array.

1" Chamfer

Anchor bolts, set of four, 0.75 inch diameter by 18 inch length.

24 inch diameter round footer, 48 inch depth. Type one concrete.

BASE PLATE DETAIL

13.75" SQUARE NOMINAL

13" BOLT CIRCLE

65 Watt Solar Panel

1-12" Yellow LED

S4-3P
(24" x 8")

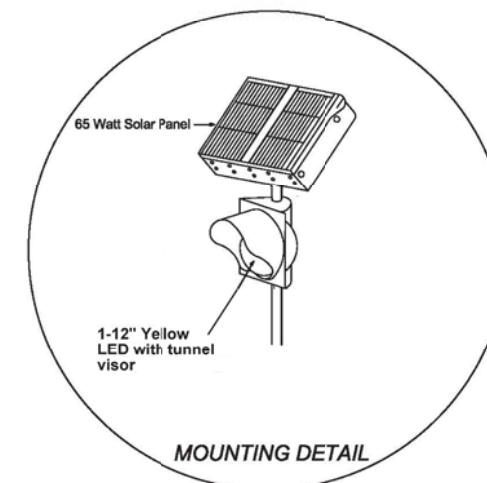
SCHOOL

SPEED
LIMIT
15

R2-1
(24" x 30")

WHEN
FLASHING

S4-4P
(24" x 10")



SHEET 17 OF 17

[illegible]