

Information for File # 2015-01369-TJH

Applicant: Isanti County Highway Department

Corps Contact: Tom Hingsberger

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Primary County: Isanti County, MN

Sections: 2, 3, 4, 5, 9

Township: 34N

Range: 23W

Information Complete On: June 11, 2015

Posting Expires On: June 29, 2015

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above.

Project Includes: Road reconstruction to include widening, base reconstruction, culvert installations, a bridge replacement, and bituminous resurfacing.

PROJECT DESCRIPTION AND PURPOSE: The applicant proposes to discharge fill material into portions of thirteen wetland basins in conjunction the reconstruction of approximately 3.4 miles of C.S.A.H. 9 in Isanti County from T.H. 65 to 609' east of C.R. 45. The applicant has stated that this portion of C.S.A.H. 9 is deficient in lane width, shoulder width and structural strength, and that maintenance costs have become prohibitive. In 2006 access ramps were constructed on Interstate Highway 35, which greatly increased the average daily traffic on C.S.A.H. 9. The purpose of the project is to improve public safety by providing a highway that conforms to the minimum standards

for width, structural load, alignment, and recovery area to ensure the continued use and the full potential of the existing county highway. The project will consist of grading, road widening, culvert installations, and bituminous repavement. A timber-frame bridge over Cedar Creek would be removed and replaced with a new bridge or a concrete box culvert.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT

TO LOSS: To accommodate the road widening, approximately 0.39 acre of wetlands would be excavated to remove sediment and regrade ditches that would be restored on site, and fill material would be discharged into approximately 2.89 acres of wetlands at the locations shown on the attached drawings labeled 2015-01369-TJH, 1 of 19 through 19 of 19. The overall size of the thirteen wetland basins totals approximately 27 acres. The individual wetlands that would be excavated or filled are shown in the following table:

| Aquatic Resource ID (as noted on overhead view) | Aquatic Resource Type (wetland, lake, tributary etc.) | Type of Impact (fill, excavate, drain, or remove vegetation) | Duration of Impact Permanent (P) or Temporary (T) ¹ | Size of Impact ² | Overall Size of Aquatic Resource ³ | Existing Plant Community Type(s) in Impact Area ⁴ | County, Major Watershed #, and Bank Service Area # of Impact Area ⁵ |
|---|---|--|--|-----------------------------|---|--|--|
| 1 | wetland | Excavate | P | 2265.12 SF or .052 ACRE | N/A | 1, 7, 3 | Isanti, 21, Rum River |
| 2 | wetland | Fill | P | 2395.8 SF or 0.055 ACRE | N/A | 1, 3 | Isanti, 21, Rum River |
| 3 | wetland | Excavate | P | 9496.08 SF or 0.218 ACRE | N/A | 1 | Isanti, 21, Rum River |
| 4 | wetland | Fill | P | 3789.22 SF or 0.087 ACRE | N/A | 2, 3 | Isanti, 21, Rum River |
| 5 | wetland | Fill | P | 2178 SF or 0.05 ACRE | N/A | 2, 3 | Isanti, 21, Rum River |
| 6 | wetland | Excavate | P | 5227.2 SF or .12 ACRE | N/A | 1, 2, 3 | Isanti, 21, Rum River |
| 7 | wetland | Fill | P | 479.16 SF or 0.011 ACRE | N/A | 2 | Isanti, 21, Rum River |
| 8 | wetland | Fill | P | 24959.88 SF or 0.573 ACRE | N/A | 1, 3, 6 | Isanti, 21, Rum River |
| 9 | wetland | Fill | P | 27486.36 SF or 0.631 ACRE | N/A | 1, 2, 3 | Isanti, 21, Rum River |
| 10 | wetland | Fill | P | 3789.72 SF or 0.087 ACRE | N/A | 1, 2, 3 | Isanti, 21, Rum River |
| 11 | wetland | Fill | P | 29054.52 SF or 0.667 ACRE | N/A | 1, 2, 3, 5, 7 | Isanti, 21, Rum River |
| 12 | wetland | Fill | P | 28270.44 SF or 0.649 ACRE | N/A | 2, 3, 5, 6 | Isanti, 21, Rum River |
| 13 | wetland | Fill | P | 3310.56 SF or 0.076 ACRE | N/A | 3 | Isanti, 21, Rum River |
| Total | | | | 142702.56 SF or 3.276 ACRE | | | |

The project would result in the permanent loss of approximately 2.89 acres of wetlands that are part of the tributary system of the Rum River.

ALTERNATIVES CONSIDERED: The applicant considered a no build alternative, a design alternative, and an alternate location alternative.

The no build alternative would fail to correct existing deficiencies and would cause continued road deterioration, substandard roadway geometries and increased maintenance costs. Since this alternative did not address any of the deficiencies, it was rejected.

A design alternative limited to an overlay was rejected because an overlay would not address major deficiencies that include a deteriorated subgrade, inadequate lane and shoulder width, or load capacity.

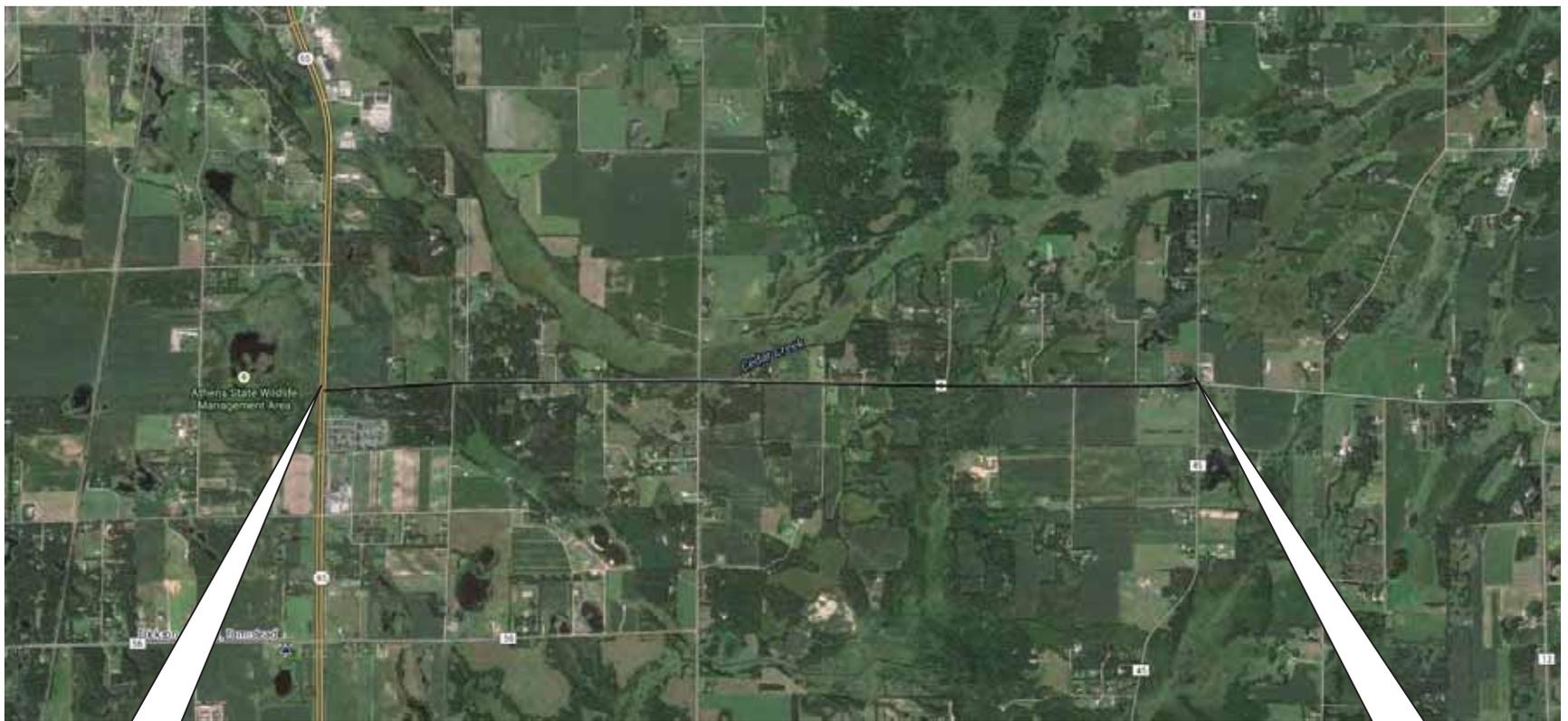
An alignment change would adversely effect existing residential access and disturb the area more than maintaining the existing alignment.

The proposed design maintains the existing horizontal alignment with slight roadway adjustments, meets or exceeds minimum safety requirements, and is minimally disruptive to the surrounding area. The existing alignment was first reconstructed in 1953. The alignment would follow the established roadway with inslopes designed at 1:4 (vertical: horizontal) or steeper with a clear zone and recovery area of 42 feet from the CSAH 9 centerline per MNDOT State Aid Highway design specifications.

COMPENSATORY MITIGATION: Compensatory mitigation for the permanent loss of approximately 2.89 acres of wetlands would be provided via a wetland credit withdrawal from the BWSR Road Replacement Program.

Drawings: See attached.

Isanti, MN (2 Mi) ↑ N LOCATION



Start, STA 0+00

End, STA 180+33

PROJECT LOCATION / WETLAND IMPACT FIGURES

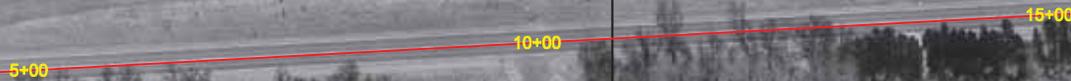
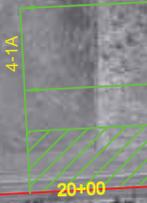
S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

BEGIN S.P. 030-609-009 Sta. 1+30.00 SCALE: 1" = 200'



WETLAND SITE #2
0.10 ACRES



PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009

PROPOSED CENTERLINE

195+00

DELINEATION AREAS



SCALE: 1" = 200'



SHEET 2 OF 11

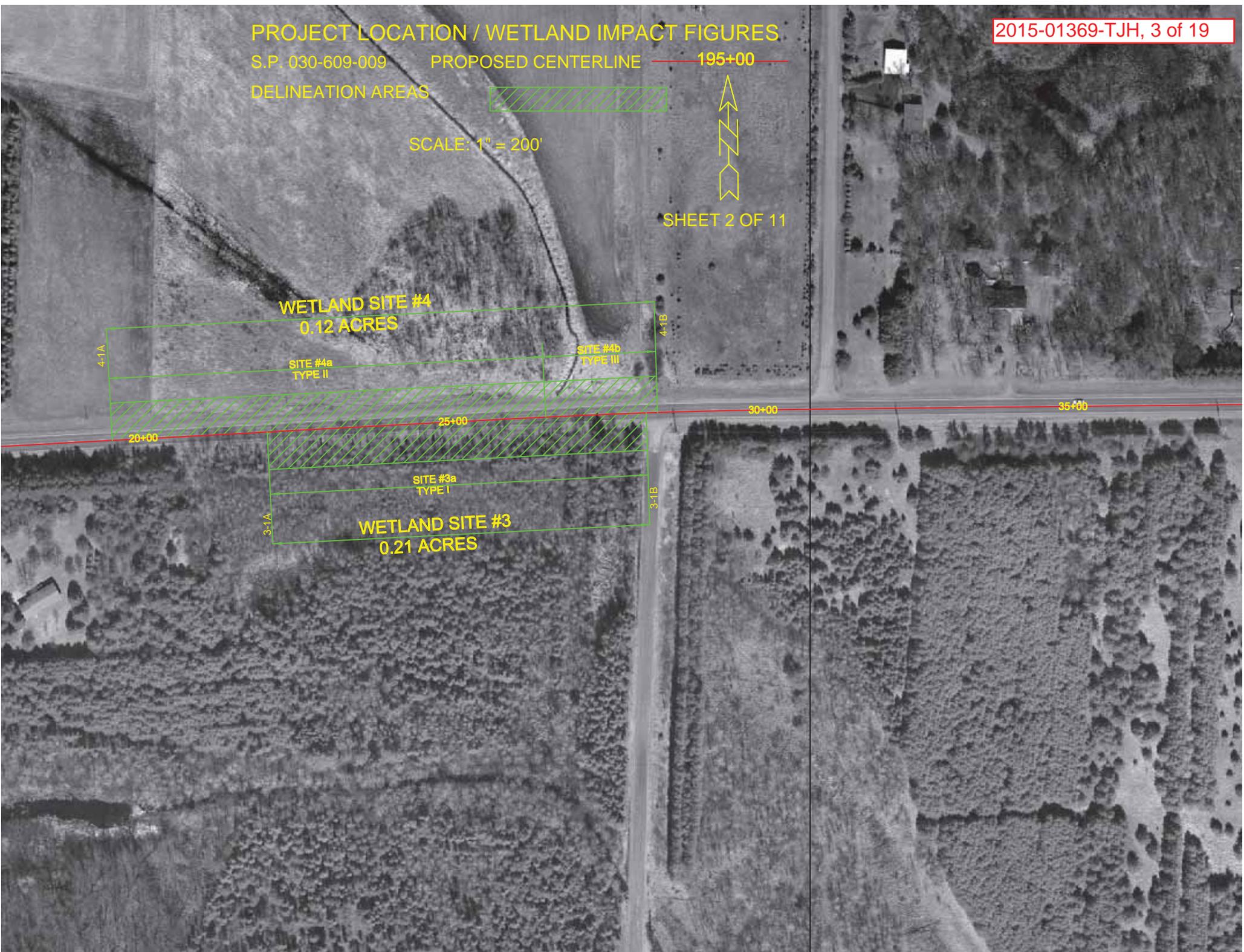
WETLAND SITE #4
0.12 ACRES

SITE #4a
TYPE II

SITE #4b
TYPE III

WETLAND SITE #3
0.21 ACRES

SITE #3a
TYPE I



PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS



SCALE: 1" = 200'



SHEET 3 OF 11

35+00 40+00 45+00 50+00

5-1A

WETLANI
0.07 AC

SITE #5a
TYPE II

6-1A

SITE #6a
TYPE II

WETLA
0.12

PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE — 195+00

DELINEATION AREAS 

SCALE: 1" = 200'



WETLAND SITE #5
0.07 ACRES

| | | | |
|-------|---------------------|----------------------|--------------------|
| 5-1A | SITE #5a TYPE II | SITE #5b TYPE III | 5-1B |
| 55+00 | | | |
| 6-1A | SITE #6a TYPE II | SITE #6b TYPE III | SITE #6c TYPE I |
| 6-1B | | | |

WETLAND SITE #6
0.12 ACRES

WETLAND SITE #7
0.01 ACRES

| | | |
|------|---------------------|------|
| 7-1A | SITE #7a TYPE II | 7-1B |
|------|---------------------|------|

| | | |
|-------|--------------------|----------------------|
| 8-1A | SITE #8a TYPE I | |
| 70+00 | | |
| 9-1A | SITE #9a TYPE I | SITE #9b TYPE III |



PROJECT LOCATION / WETLAND IMPACT FIGURES

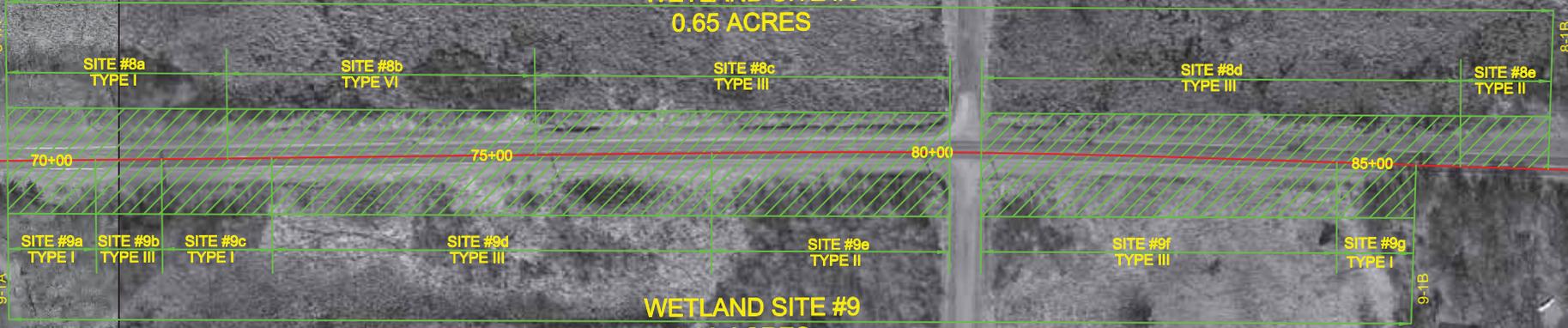
S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'


SHEET 5 OF 11

WETLAND SITE #8 0.65 ACRES



WETLAND SITE #9 0.80 ACRES

PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'


SHEET 6 OF 11

8-1B
SITE #8e
TYPE II

10-1A
WETLAND SITE #10
0.11 ACRES
SITE #10a TYPE II
SITE #10b TYPE III
SITE #10c TYPE I
10-1B

90+00

95+00

100+00

105+00

PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'


SHEET 7 OF 11



105+00

110+00

115+00

120+00

SITE #12a
TYPE II

SITE #11a
TYPE I

SITE #11b
TYPE II

SITE #11c
TYPE I

11+1A

PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'



SHEET 8 OF 11

WETLAND SITE #12
0.78 ACRES

SITE #12b
TYPE III

SITE #12d
TYPE V
SITE #12g
TYPE VI

SITE #12e
TYPE VII

SITE #12f
TYPE III

SITE #12g
TYPE VI

120+00

125+00

130+00

135+00

SITE #11c
TYPE I

SITE #11d
TYPE VII

SITE #11f
TYPE V

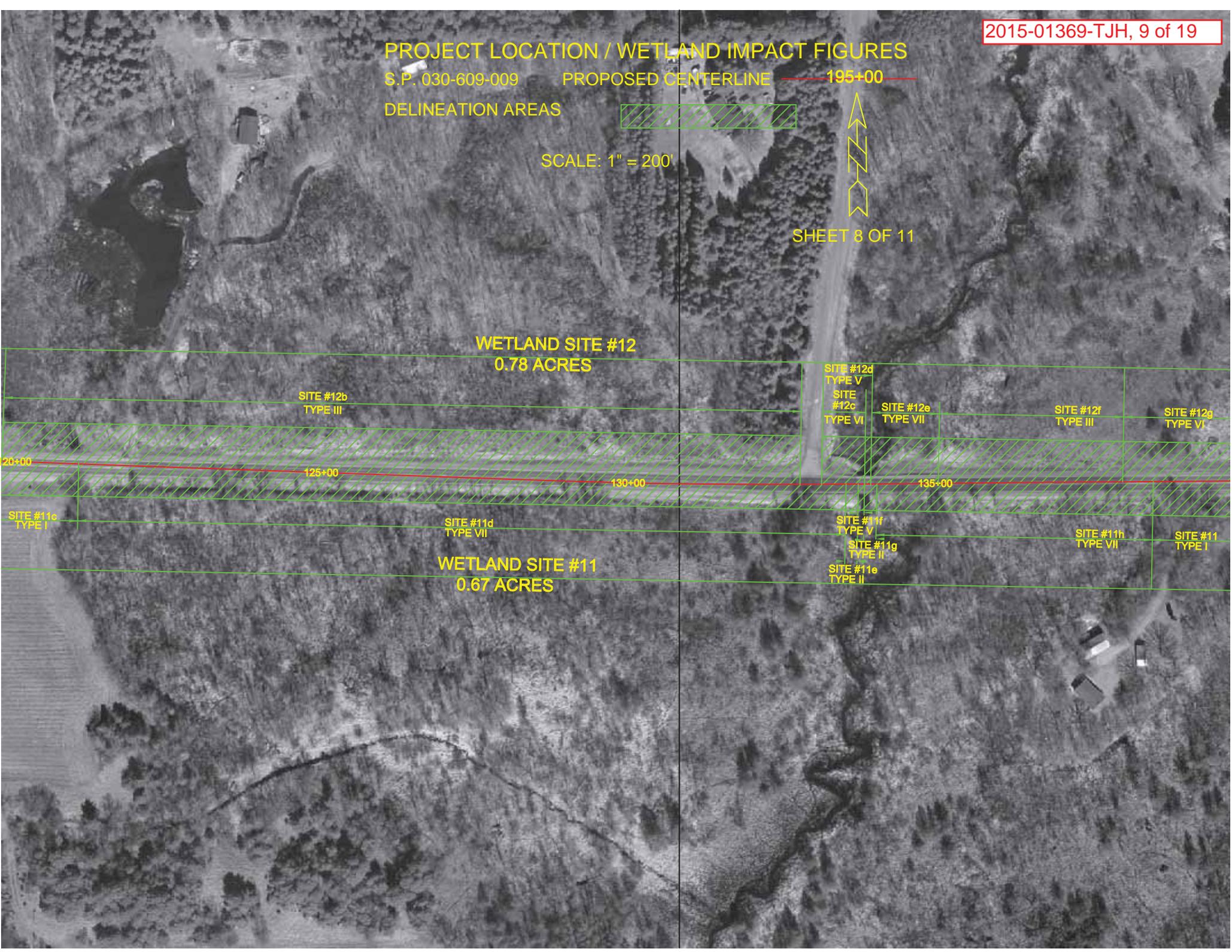
SITE #11g
TYPE II

SITE #11e
TYPE II

SITE #11h
TYPE VII

SITE #11i
TYPE I

WETLAND SITE #11
0.67 ACRES



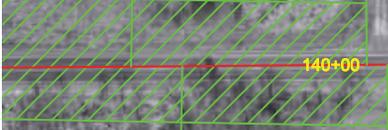
PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'


SHEET 9 OF 11

| | |
|--|----------------------|
| SITE #12f TYPE III | SITE #12g TYPE VI |
|  | |
| SITE #11h TYPE VII | SITE #11i TYPE I |

WETLAND SITE #13
0.10 ACRES

| |
|---|
| SITE #13a TYPE III |
|  |



PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'


SHEET 10 OF 11

SITE #13
ES

8a
III

155+00 160+00 165+00 170+00



PROJECT LOCATION / WETLAND IMPACT FIGURES

S.P. 030-609-009 PROPOSED CENTERLINE 195+00

DELINEATION AREAS 

SCALE: 1" = 200'



SHEET 11 OF 11

END S.P. 030-609-009
Sta. 180+33.00

175+00

190+00

185+00



BASIC MINIMUM
RIGHT OF WAY
ACQUIRED: 120'

DAVID J. AND LINNY K. JELIŃSKI
S.W. 1/4 OF S.E. 1/4 FCT.
PARCEL 1

ORIN M. AND BETTIE LU SIMONSON
PT. S. 1/2 OF S.E. 1/4
PARCEL 2

GORDON C. AND DIANE E. LAROWE
N.E. 1/4 S.E. 1/4 OF S.E. 1/4 FCT.
PARCEL 3

P.I. = 28+25.22
A = 0228'14" RT.



BEGIN PROJECT S.P. 030-609-009
C.S.A.H. NO. 9 STA. 1+30.00

STA. 3+96 FLD. ENT. LT.
NO CULVERT INPLACE
F & 1 15' X 50' C.S.P.
F & 1 2 APRONS

STA. 13+57 FLD. ENT. LT.
INPLACE 15" X 25' C.M.P.
REMOVE
F & 1 15' X 50' C.S.P.
F & 1 2 APRONS

STA. 15+12 HSE. ENT. LT.
INPLACE 12" X 25' C.M.P.
REMOVE
F & 1 15' X 50' C.S.P.
F & 1 2 APRONS

STA. 26+73 @
INPLACE 24" X 60' C.M.P.
REMOVE
F & 1 18" X 28" X 82' R.C.P. CLIA
F & 1 2 APRONS

STA. 28+14 FLD. ENT. LT.
INPLACE 15" X 20' C.M.P.
REMOVE
F & 1 15' X 44' C.S.P.
F & 1 2 APRONS

BILLIE JOE BIGGINS AND
DEANNE K. SMITH
S.W. 1/4 OF
S.W. 1/4 FCT.
PARCEL 4

STA. 1+47 @
INPLACE 15" X 46' C.M.P.
REMOVE
F & 1 24" X 86' R.C.P. CLIA
@ STA. 2+00
F & 1 2 APRONS

STA. 7+26 HSE. ENT. RT.
INPLACE 12" X 37' C.M.P.
REMOVE
F & 1 15" X 46' C.S.P.
F & 1 2 APRONS

STA. 9+93 HSE. ENT. RT.
NO CULVERT INPLACE
NO CULVERT REQ'D.

STA. 13+77 HSE. ENT. RT.
NO CULVERT INPLACE
NO CULVERT REQ'D.

STA. 17+35 HSE. ENT. RT.
NO CULVERT INPLACE
F & 1 X 15" X 50' C.S.P.
F & 1 2 APRONS

SCOTT LARSEN
LOT 003 BLOCK 001
OF THOMAS CIRCLE
PARCEL 36

BETTY L. BUZZELL
LOT 002 BLOCK 001
OF THOMAS CIRCLE
PARCEL 39

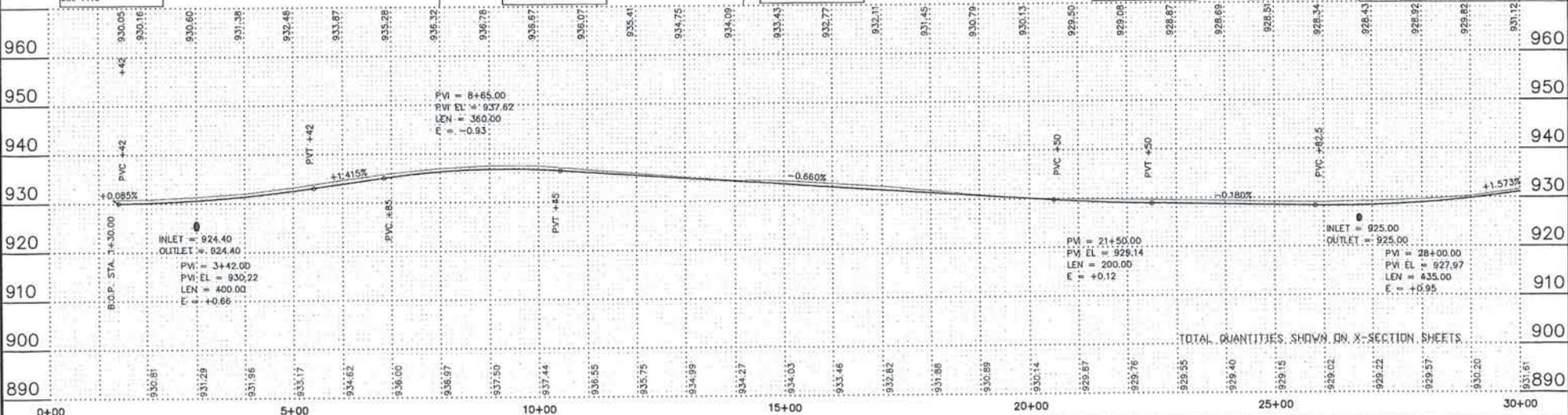
JEFFERY K. LILANDER
LOT 001 BLOCK 001
OF THOMAS CIRCLE
PARCEL 40

EDWIN M. AND ELAINE M. KNAPPER
N. 1/2 OF N.E. 1/4 OF N.E. 1/4
PARCEL 41

CIRCULAR
Defl = 02'28"14"
Do = 00'30"00"
T = 247.10
R = 11459.16
L = 494.11
C = 494.08
E = 2.66
M = 2.66

STA. 28+22 TWP. RD. RT.
NO CULVERT INPLACE
NO CULVERT REQ'D.

RAPID STABILIZATION AREA
NEW R/W
EXISTING R/W
TEMP. EASEMENT
TOPSOIL EASEMENT

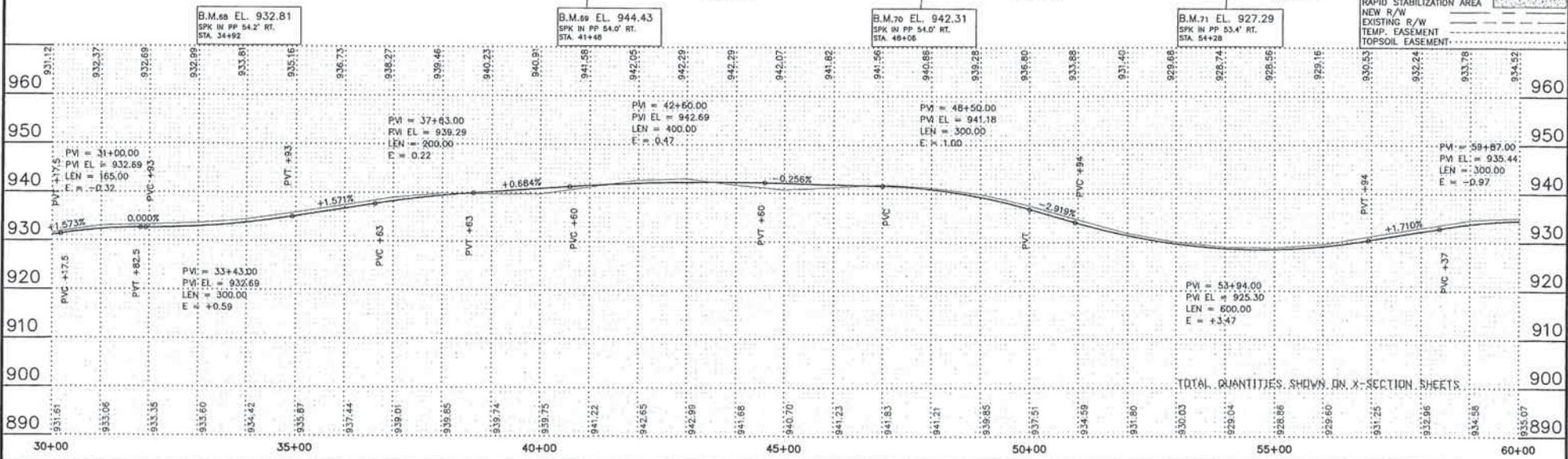
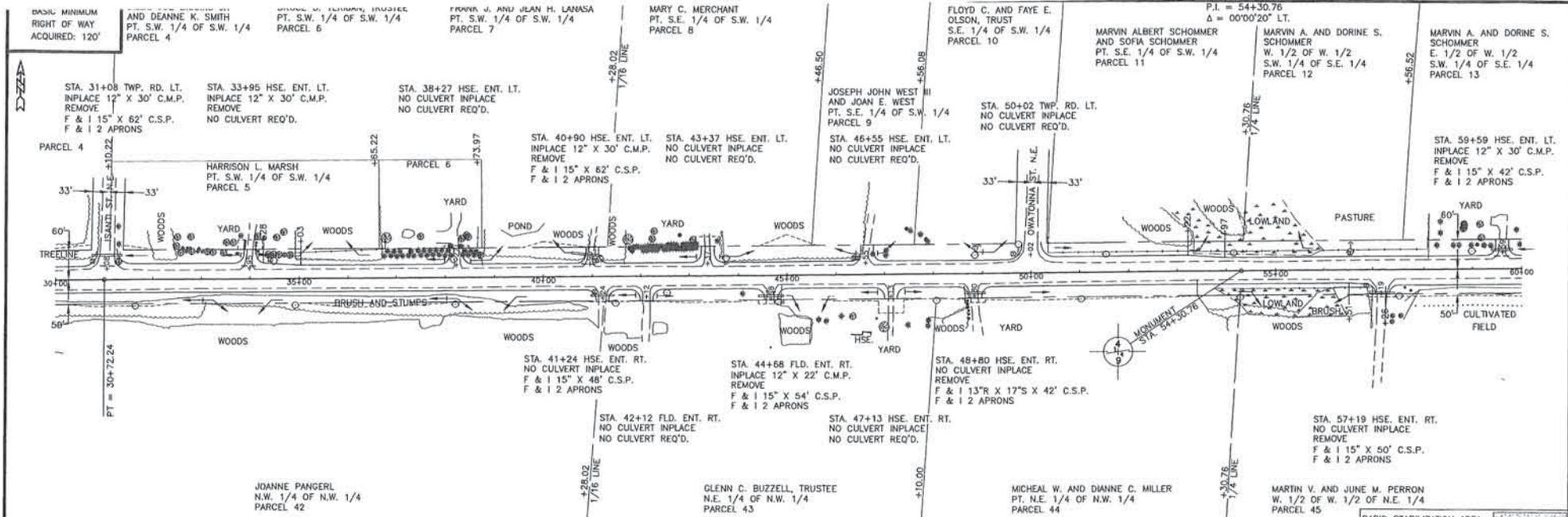


TOTAL QUANTITIES SHOWN ON X-SECTION SHEETS.

2015-01369-TJH, 13 of 19

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PRINTED: RICHARD HEILMAN

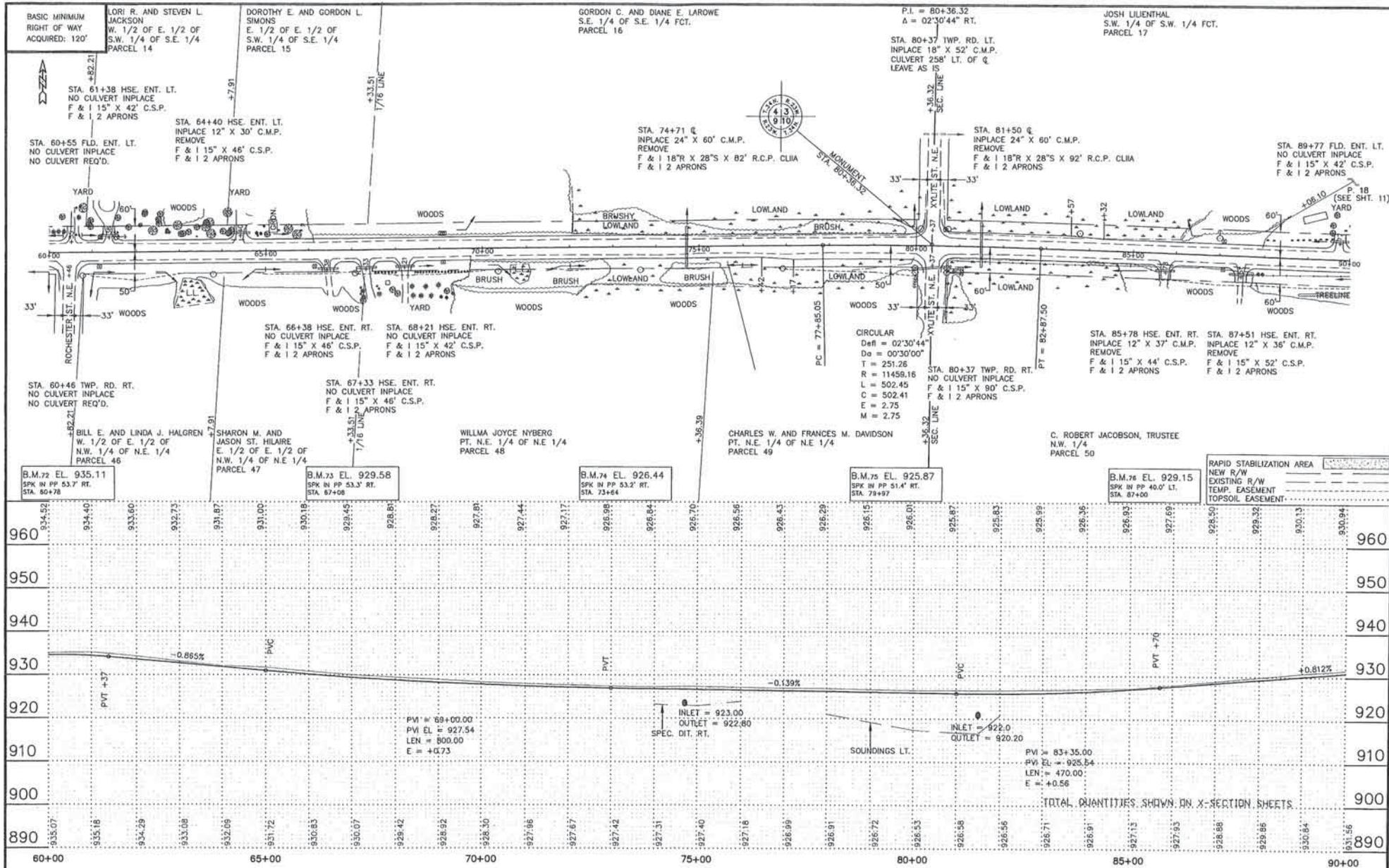
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State Proj. No. 030-609-009 Sheet No. 8 of 45 Sheets



2015-01369-TJH, 14 of 19

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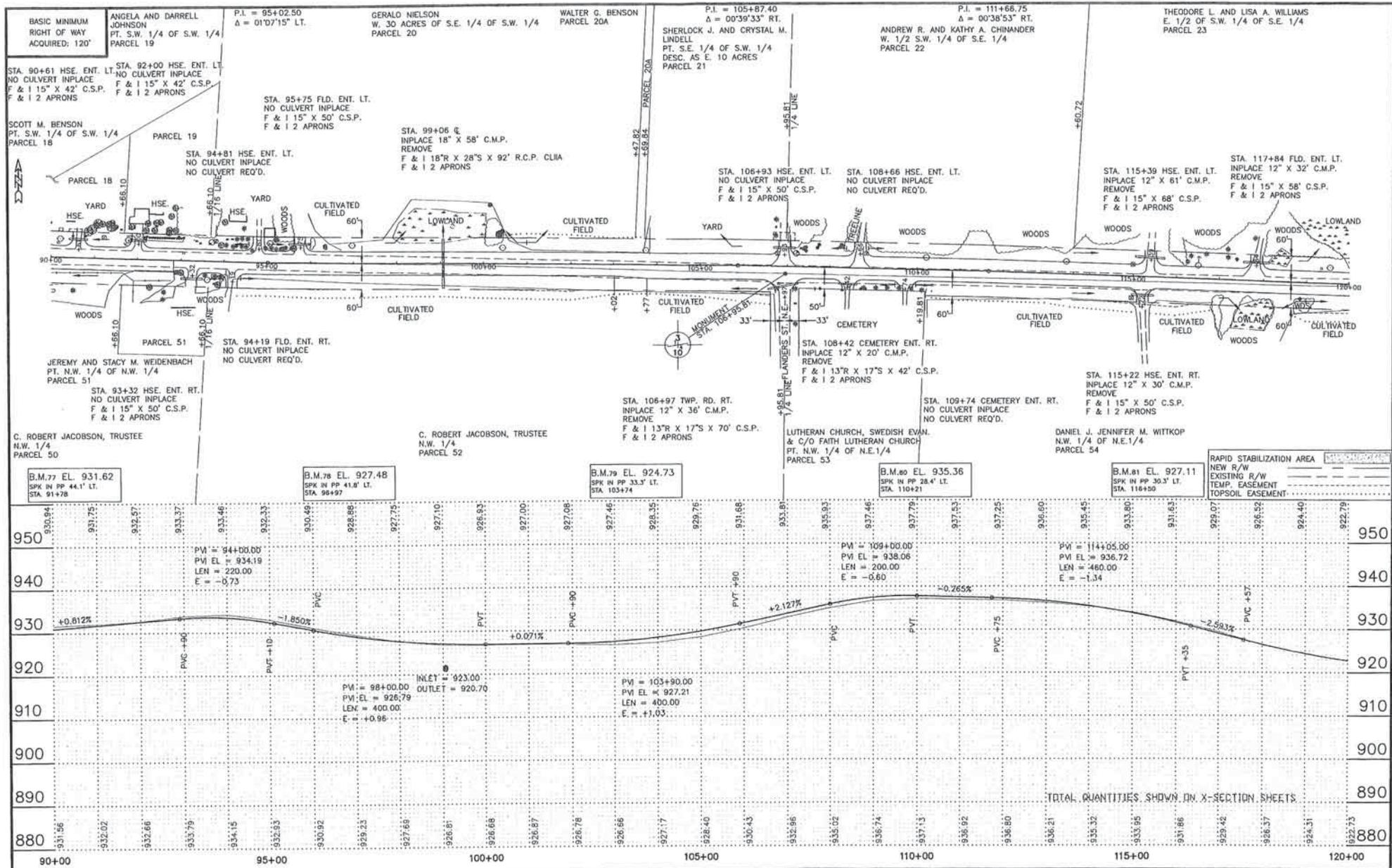
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2015-01369-TJH, 15 of 19

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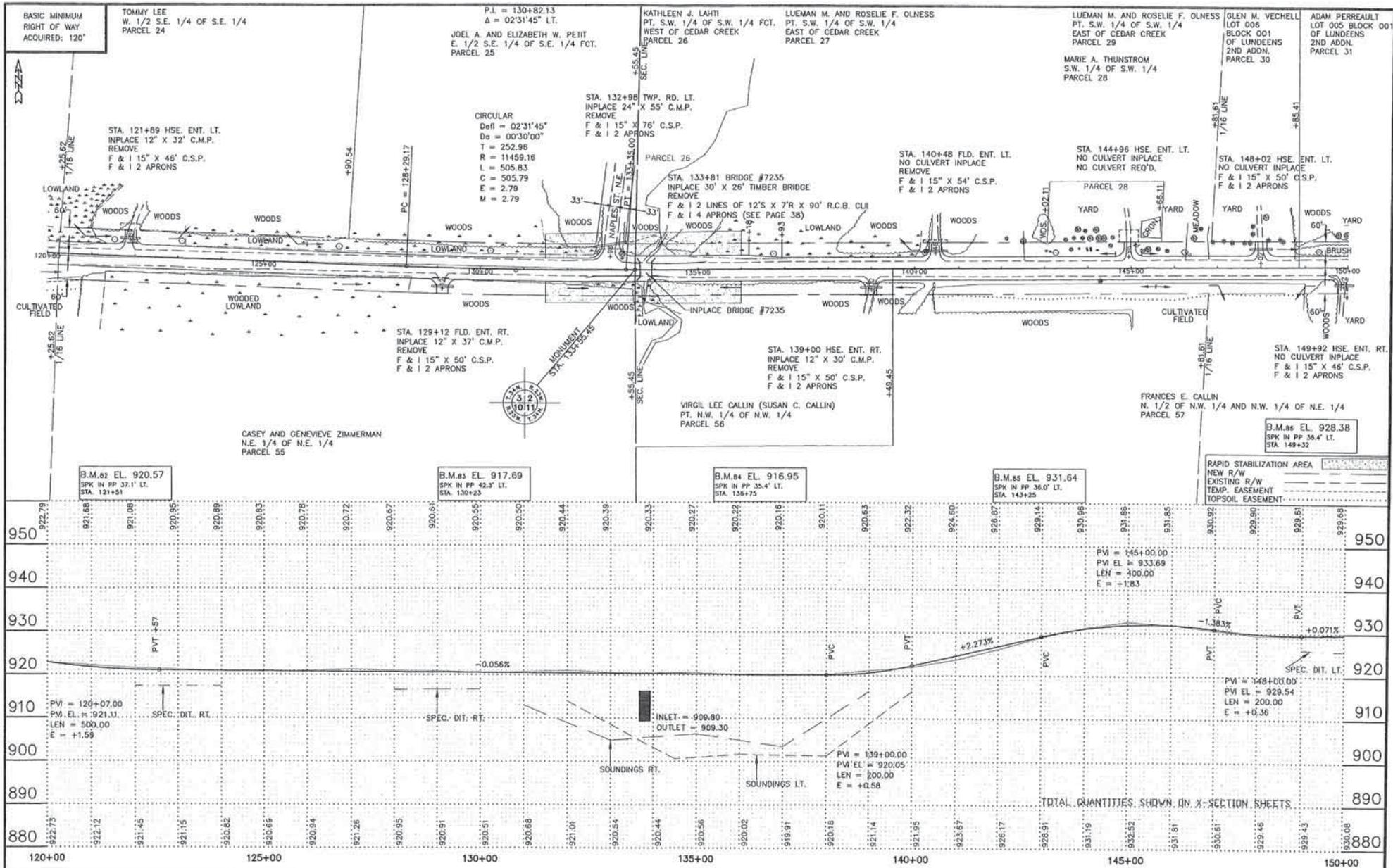
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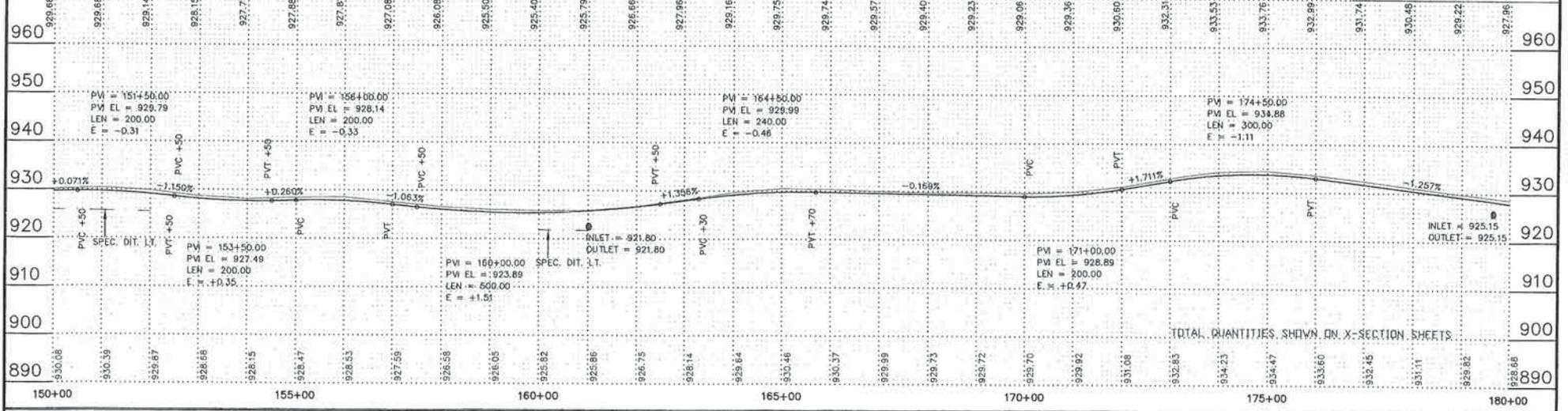
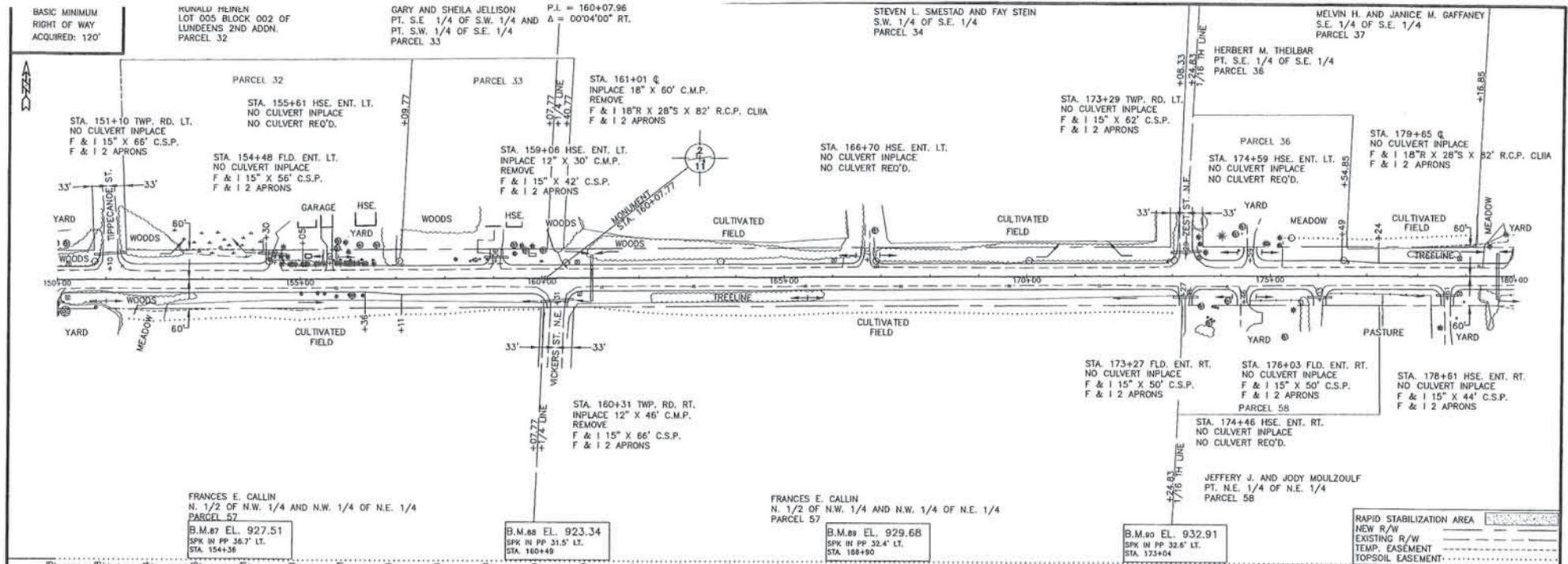
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2015-01369-TJH, 18 of 19

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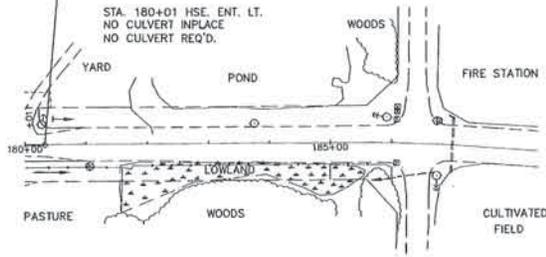
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 State Proj. No. 030-609-009 Sheet No. 13 of 45 Sheets

BASIC MINIMUM
RIGHT OF WAY
ACQUIRED: 120'

EOP = 180+33.00



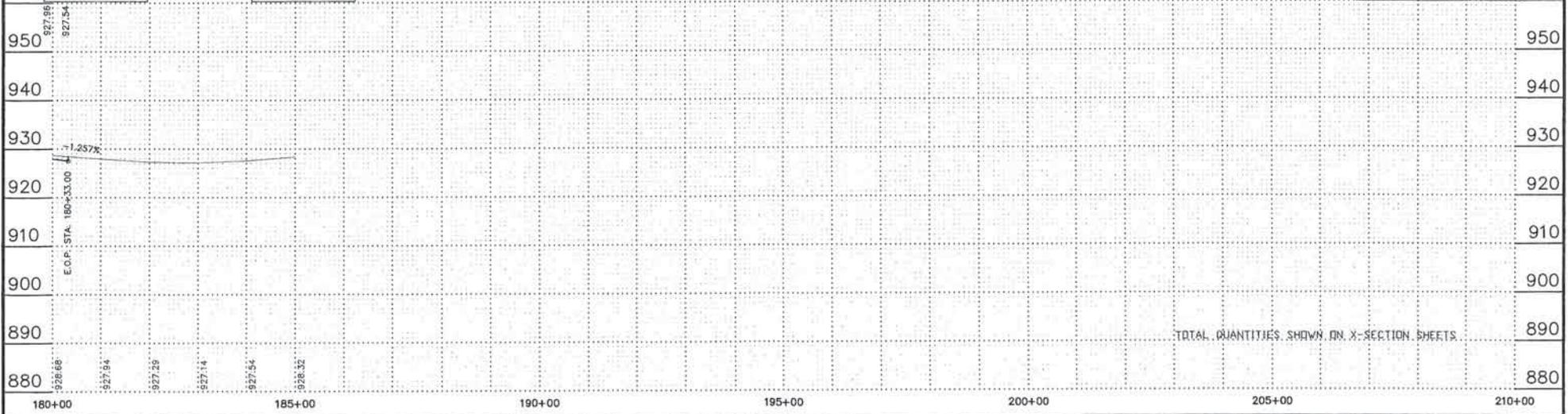
END PROJECT S.P. 030-609-009
C.S.A.H. NO. 9 STA. 180+33.00



B.M.#1 EL. 929.60
SPK IN PP 33.1' LT.
STA. 180+28

B.M.#2 EL. 927.16
SPK IN PP 40.5' LT.
STA. 185+93

RAPID STABILIZATION AREA
NEW R/W
EXISTING R/W
TEMP. EASEMENT
TOPSOIL EASEMENT



TOTAL QUANTITIES SHOWN ON X-SECTION SHEETS 890

2015-01369-TJH, 19 of 19

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