

# SCOTT COUNTY HIGHWAY DEPARTMENT

SCOTT COUNTY, MINNESOTA

## C.S.A.H. 83 AND 4TH AVE INTERSECTION RECONSTRUCTION

CONSTRUCTION PLAN FOR BITUMINOUS PAVING, CONCRETE PAVING, GRADING, TRAIL, AND DRAINAGE

LOCATED ON C.S.A.H. 83 FROM C.S.A.H. 101 TO 60' NORTH OF VALLEY INDUSTRIAL BLVD S

### STATE AID PROJ. 070-683-013

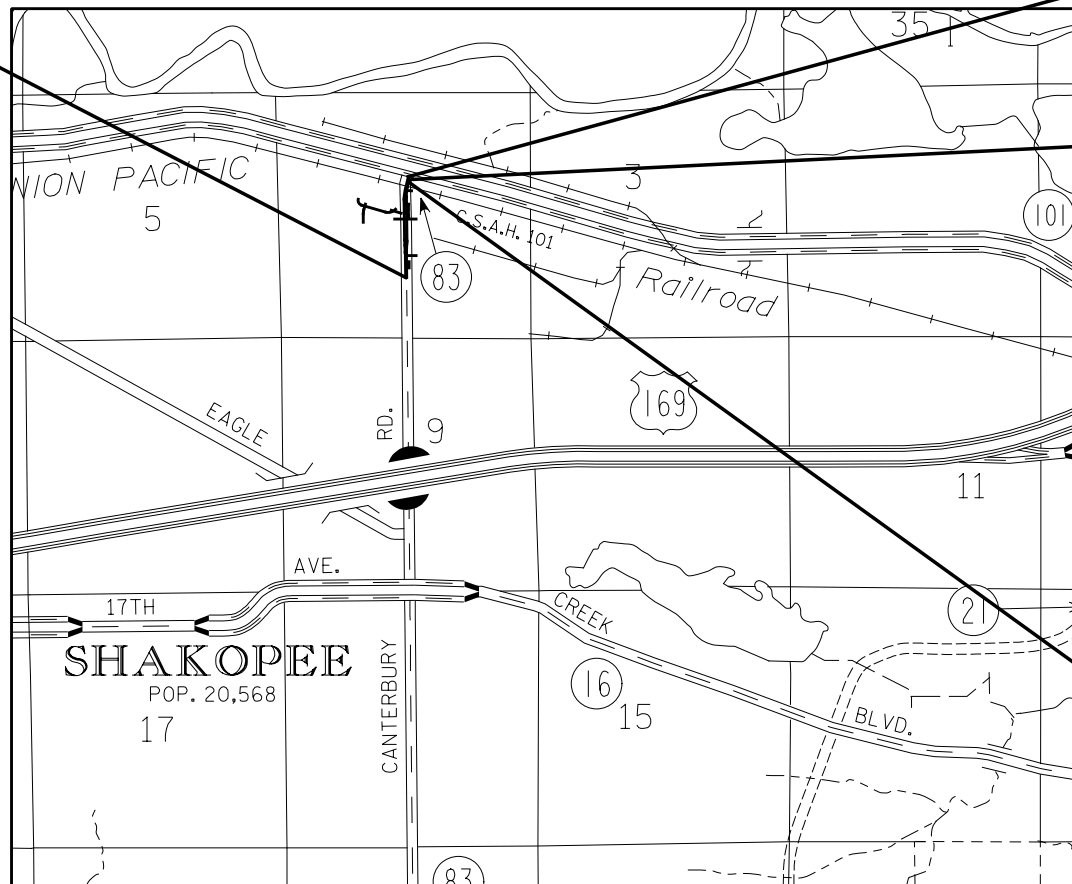
GROSS LENGTH 1866.29 FEET 0.353 MILES  
BRIDGES-LENGTH FEET MILES  
EXCEPTIONS-LENGTH 143.67 FEET 0.03 MILES  
NET LENGTH 1866.29 FEET 0.353 MILES  
LENGTH AND DESCRIPTION BASED UPON <NB83>

DESIGN SPEED NOT ACHIEVED AT:  
STA. 818+25.00 TO STA. 819+80.00  
STOPPING SIGHT DISTANCE NOT MET FOR VERTICAL CURVE

END (C.S.A.H. 83)  
S.A.P. 070-683-013  
COUNTY PROJ. NO. CP83-22  
STA. 819+83.23

END (C.S.A.H. 83)  
DESIGN EXCEPTION  
STA. 819+80.00

BEGIN (C.S.A.H. 83)  
DESIGN EXCEPTION  
STA. 818+25.00



### PLAN SYMBOLS

STATE LINE  
COUNTY LINE  
TOWNSHIP OR RANGE LINE  
SECTION LINE  
QUARTER LINE  
SIXTEENTH LINE  
RIGHT-OF-WAY LINE  
PRESENT RIGHT-OF-WAY LINE  
CONTROL OF ACCESS LINE  
PROPERTY LINE (Except Land Lines)  
VACATED PLATTED PROPERTY  
CORPORATE OR CITY LIMITS

TRUNK HIGHWAY CENTER LINE  
CONC. RETAINING WALL  
RAILROAD  
RAILROAD RIGHT-OF-WAY LINE  
RIVER OR CREEK  
DRY RUN  
DRAINAGE DITCH  
DRAIN TILE  
CULVERT  
DROP INLET  
GUARD RAIL  
BARBED WIRE FENCE  
WOVEN WIRE FENCE  
CHAIN LINK FENCE  
RAILROAD SNOW FENCE  
STONE WALL OR FENCE  
HEDGE  
RAILROAD CROSSING SIGN  
RAILROAD CROSSING BELL  
ELECTRIC WARNING SIGN  
CROSSING GATE  
MEANDER CORNER  
MAIL BOX

SPRINGS  
MARSH  
TIMBER  
ORCHARD  
BRUSH  
NURSERY

CATCH BASIN  
FIRE HYDRANT  
CATTLE GUARD

OVERPASS (Highway Over)  
UNDERPASS (Highway Under)  
BRIDGE

BUILDING (One Story Frame)  
F-FRAME C-CONCRETE  
S-STONE T-TILE  
B-BRICK ST-STUCCO

IRON PIPE OR ROD  
MONUMENT (STONE, CONCRETE, OR METAL)  
WOODEN HUB  
GRAVEL PIT  
SAND PIT  
BORROW PIT  
ROCK QUARRY

### UTILITY SYMBOLS

POWER POLE LINE  
TELEPHONE OR TELEGRAPH  
POLE LINE  
JOINT TELEPHONE AND POWER  
ON POWER POLES  
ON TELEPHONE POLES

ANCHOR  
STEEL TOWER  
STREET LIGHT  
PEDESTAL (TELEPHONE CABLE  
TERMINAL)  
GAS MAIN  
WATER MAIN  
CONDUIT  
TELEPHONE CABLE IN CONDUIT  
ELECTRIC CABLE IN CONDUIT  
TELEPHONE MANHOLE  
ELECTRIC MANHOLE  
BURIED TELEPHONE CABLE  
BURIED ELECTRIC CABLE  
AERIAL TELEPHONE CABLE  
SEWER (SANITARY)  
SEWER (STORM)  
SEWER MANHOLE  
HANDHOLE

### DESIGN DESIGNATION FOR:

R-VALUE  
ADT (Current Year) 2017 =  
ADT (Future Year) 2037 =  
HCADT (Future Year) 2037  
PAVEMENT DESIGN  
FUNCTIONAL CLASSIFICATION  
NO. OF TRAFFIC LANES  
NO. OF PARKING LANES  
ESALS (20)  
Design Speed  
Based on Sight Distance  
Height of eye / Height of Object

### C.S.A.H. 83

30  
8240  
12890  
8.6%  
10 TON  
MINOR ARTERIAL ROADWAY  
4  
0  
2,456,000 (20 YRS.)  
50 MPH  
STOPPING  
3.5' / 2.0'

### DESIGN DESIGNATION FOR:

Design Speed  
Based on Sight Distance  
Height of eye / Height of Object

### TRAIL

20 MPH  
STOPPING  
4.5' / 0.0'

| PLAN REVISIONS |           |             |
|----------------|-----------|-------------|
| DATE           | SHEET NO. | APPROVED BY |
|                |           |             |
|                |           |             |
|                |           |             |
|                |           |             |

### SCALES

INDEX MAP  
PLAN  
PROFILE  
X-SECTIONS

2000'  
50'  
5'  
10'



PROJECT LOCATION  
COUNTY : SCOTT  
DISTRICT : METRO

S.A.P. #  
070-683-013

C.P. #  
83-22



### GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

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".

### INDEX

| SHEET NO. | SHEET DESCRIPTION                                 |
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| 1         | TITLE SHEET                                       |
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| 3 - 5     | STATEMENT OF ESTIMATED QUANTITIES                 |
| 6         | STANDARD PLATES & INDEX OF TABULATIONS            |
| 7         | EARTHWORK TABULATIONS                             |
| 8         | CONSTRUCTION AND SOILS NOTES                      |
| 9         | TABULATIONS                                       |
| 10 - 17   | EXISTING UTILITY TABULATIONS                      |
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| 21 - 25   | TYPICAL SECTIONS                                  |
| 26        | TEMPORARY CONSTRUCTION ACCESS DETAIL              |
| 27 - 30   | MISCELLANEOUS DETAILS                             |
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| 84 - 88   | PROFILES                                          |
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| 91 - 92   | RETAINING WALL PLANS                              |
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| 136       | CONTOUR PLANS                                     |
| 137       | CROSS SECTION LAYOUT PLANS                        |
| 138 - 163 | CROSS SECTIONS                                    |

THIS PLAN CONTAINS 163 SHEETS



I HEREBY CERTIFY THAT THIS PLAN 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  
DATE LIC. NO. 53246 PRINT NAME KEVIN LARUE

RECOMMENDED FOR APPROVAL CITY ENGINEER, CITY OF SHAKOPEE 20

RECOMMENDED FOR APPROVAL SCOTT COUNTY ENGINEER 20

DISTRICT STATE AID ENGINEER REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY 20

### SCOTT COUNTY

TITLE SHEET  
C.S.A.H. 83 AND 4TH AVE  
INTERSECTION RECONSTRUCTION

SHEET  
1  
OF  
163

GENERAL NOTES:

THE RIGHT-OF-WAY SHOWN IN THIS PLAN GIVES A GRAPHICAL LOCATION WITH RESPECT TO THE GEOMETRIC DESIGN AND MAP DATA. THE EXACT RIGHT-OF-WAY AND BOUNDARY CORNERS ARE LOCATED BY REFERENCE TO THE RIGHT-OF-WAY PLATS AND ARE IDENTIFIED ON THE RIGHT-OF-WAY MAP.

ROADWAY WIDTH DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE. STATION/OFFSET AND RADIUS DIMENSIONS ARE TO BACK OF CURB.

ALL CURB AND GUTTER TO BE B424 UNLESS NOTED OTHERWISE.

CURB CUTS AT DRIVEWAYS TO BE MARKED AND VERIFIED BY ENGINEER.

FOR ADDITIONAL INFORMATION SEE INTERSECTION DETAIL SHEETS.

COORDINATE PLACEMENT OF 6" PVC SIGN COLLARS IN MEDIANS WITH THE ENGINEER. ALL WORK AND COSTS ASSOCIATED FOR THE SIGN POST OPENINGS IS INCIDENTAL.

SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES AND PROPOSED STORM SEWER

ALL STATION/OFFSETS ARE SHOWN WITH RESPECT TO N.B. CSAH 83 ALIGNMENT UNLESS OTHERWISE NOTED.

SEE CONCRETE PAVEMENT PLANS & DETAILS FOR ADDITIONAL INFORMATION.

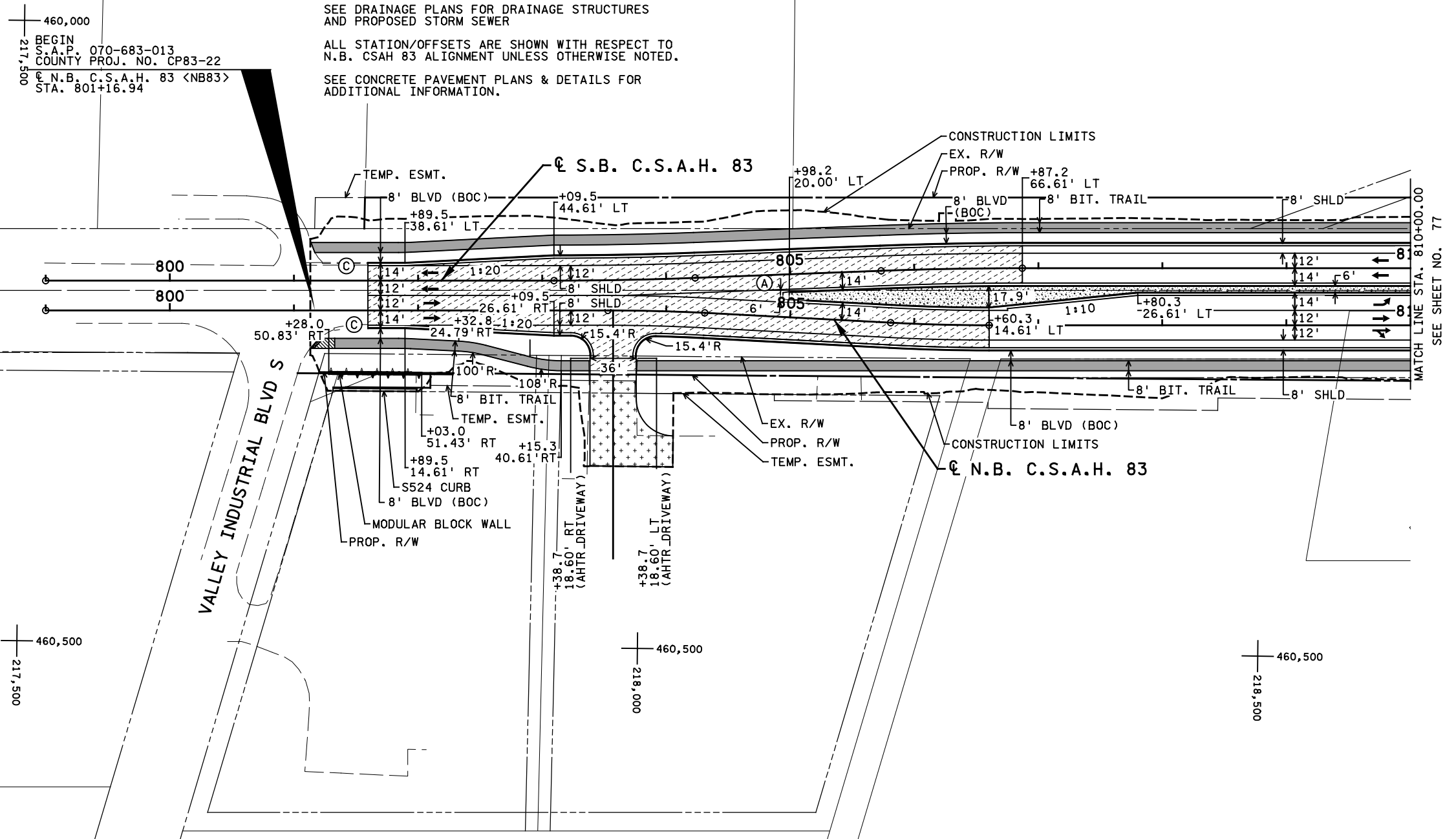
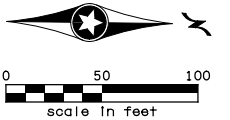
NOTES:

(A) CONSTRUCT APPROACH NOSE (MNDOT STD PLATE 7113)

(C) 10' CURB TRANSITION

LEGEND

-  7" BITUMINOUS PAVING
-  4" BITUMINOUS PAVING
-  4" BITUMINOUS TRAIL
-  4" CONCRETE WALK
-  6" CONCRETE WALK (ADA RAMPS)
-  EXISTING ROADWAYS
-  PROPOSED CONSTRUCTION
-  DIRECTION OF TRAFFIC



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.

Print Name: KEVIN LaRUE

Date: 05/05/17 License #: 53246

S.A.P. 070-683-013  
COUNTY PROJECT NO.  
83-22

DRAWN BY  
H. FURAN  
DESIGNED BY  
C. GILLESPIE  
CHECKED BY  
K. LARUE  
COMM. NO. 9026



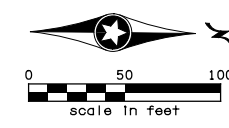
ENGINEERS  
PLANNERS  
DESIGNERS

SCOTT COUNTY  
CONSTRUCTION PLAN  
C.S.A.H. 83 AND 4TH AVE  
INTERSECTION RECONSTRUCTION

SHEET  
76  
OF  
163

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
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**LEGEND**

- 7" BITUMINOUS PAVING
- 4" BITUMINOUS PAVING
- 4" BITUMINOUS TRAIL
- 4" CONCRETE WALK
- 6" CONCRETE WALK (ADA RAMPS)
- EXISTING ROADWAYS
- PROPOSED CONSTRUCTION
- DIRECTION OF TRAFFIC

- NOTES:**
- (A) CONSTRUCT APPROACH NOSE (MNDOT STD PLATE 7113)
  - (B) PEDESTRIAN CURB RAMP (SEE PEDESTRIAN INTERSECTION DETAILS)
  - (C) 10' CURB TRANSITION
  - (D) B424 C&G (MOD) GUTTER OUT
  - (E) B624 C&G (MOD) GUTTER OUT
  - (F) B418 C&G (MOD) GUTTER OUT

**GENERAL NOTES:**

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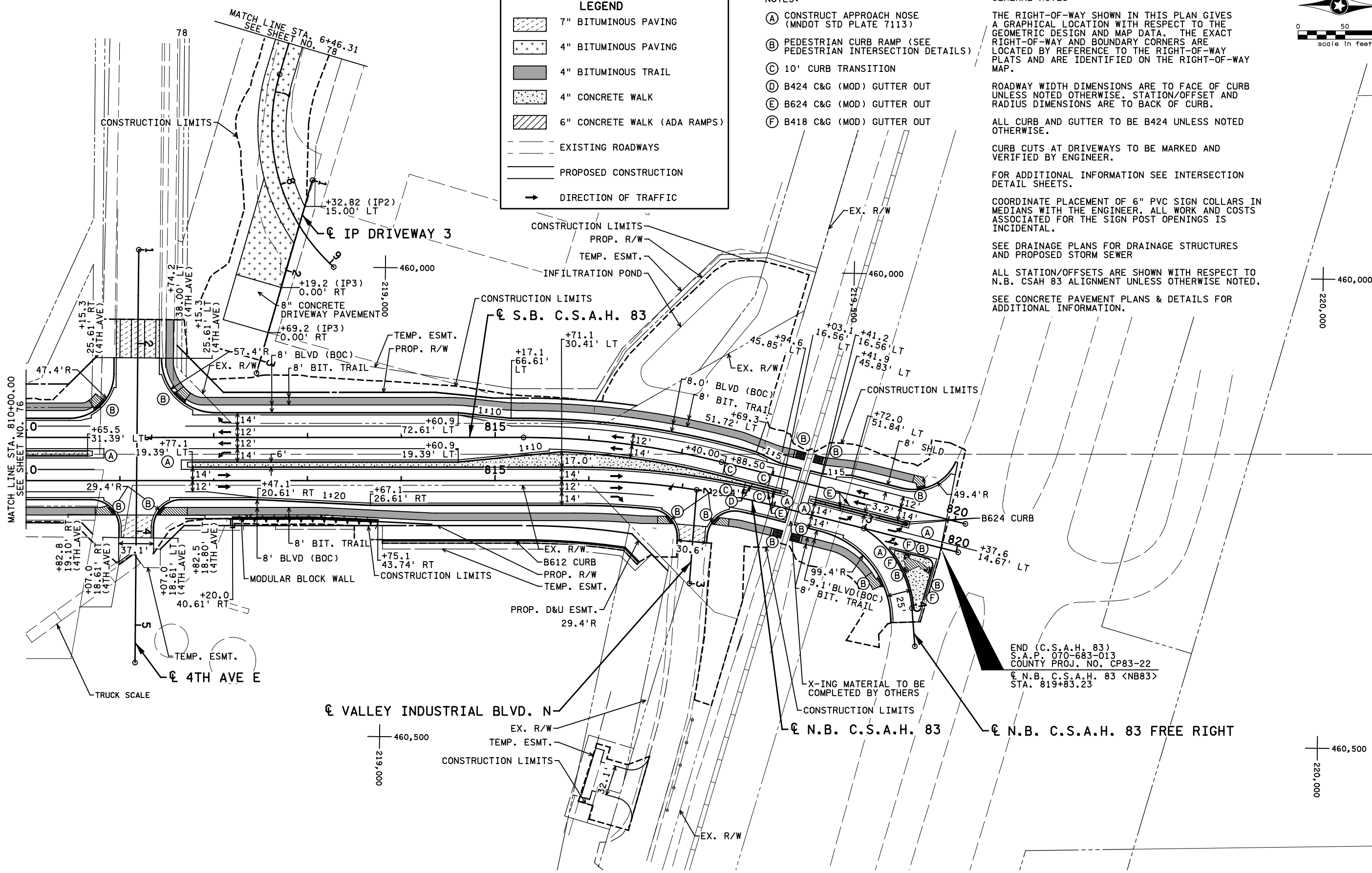
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SEE CONCRETE PAVEMENT PLANS & DETAILS FOR ADDITIONAL INFORMATION.



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|----|------|----|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------|--|------------------------------------|---------------------------------------------------------------------------------------------|--------------------------|
|    |      |    |     |      | 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. |                         | S.A.P. 070-683-013<br>COUNTY PROJECT NO. 83-22 |                  | DRAWN BY<br>H. FURAN<br>DESIGNED BY<br>C. GILLESPIE<br>CHECKED BY<br>K. LARUE<br>COMM. NO. 9026 |  | ENGINEERS<br>PLANNERS<br>DESIGNERS | SCOTT COUNTY<br>CONSTRUCTION PLAN<br>C.S.A.H. 83 AND 4TH AVE<br>INTERSECTION RECONSTRUCTION | SHEET<br>77<br>OF<br>163 |
| NO | DATE | BY | CKD | APPR | REVISION                                                                                                                                                                                                  | Print Name: KEVIN LaRUE | Date: 05/05/17                                 | License #: 53246 |                                                                                                 |  |                                    |                                                                                             |                          |