

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	----
JOINT TELEPHONE AND POWER 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) 2019 =
ADT (Future Year) 2039 =
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
Design Speed not achieved at:

12TH AVE	VIERLING DR E	TRAIL
50	50	50
6,000	3,350	X
13,000 (2039)	10,500 (2039)	X
10 TON	10 TON	X
LOCAL ROAD	LOCAL ROAD	X
4	4	X
0	0	X
1,076,000 (20 YRS.)	784,000 (20 YRS.)	X
20 & 40 MPH	30 MPH	20 MPH
STOPPING	STOPPING	STOPPING
3.5' / 2.0'	3.5' / 2.0'	4.5' / 0.0'
ROUNDABOUT	ROUNDABOUT	X

SCALE
INDEX MAP
1000'

PROJECT LOCATION
COUNTY : SCOTT
DISTRICT : METRO

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

THIS PLAN AND/OR SPECIFICATION WAS PREPARED SPECIFICALLY FOR THIS PROJECT, AND ANY RE-USE OF DETAILS OR SPECIFICATIONS ON OTHER PROJECTS IS NOT INTENDED OR AUTHORIZED BY THE DESIGNER. LIABILITY FOR ANY RE-USE ON OTHER PROJECTS IS THE RESPONSIBILITY OF THE PERSON, AGENCY, OR CORPORATION USING PLAN OR SPECIFICATION DATA FROM THIS PROJECT.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO GUIDELINES OF CI/ASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

CP CIF 19-004
SAP 166-123-002
SHEET NO. 1 OF 159 SHEETS

CITY OF SHAKOPEE

SCOTT COUNTY, MINNESOTA

PLANS FOR: GRADING, STORM SEWER, BITUMINOUS SURFACING, AND ROUNDABOUT

CITY PROJECT NO. CIF19-004 LOCATED ON 12TH AVENUE FROM 0.60 MILES W OF CSAH 83 TO 100' WEST OF CSAH 83

12TH AVE RECONSTRUCTION

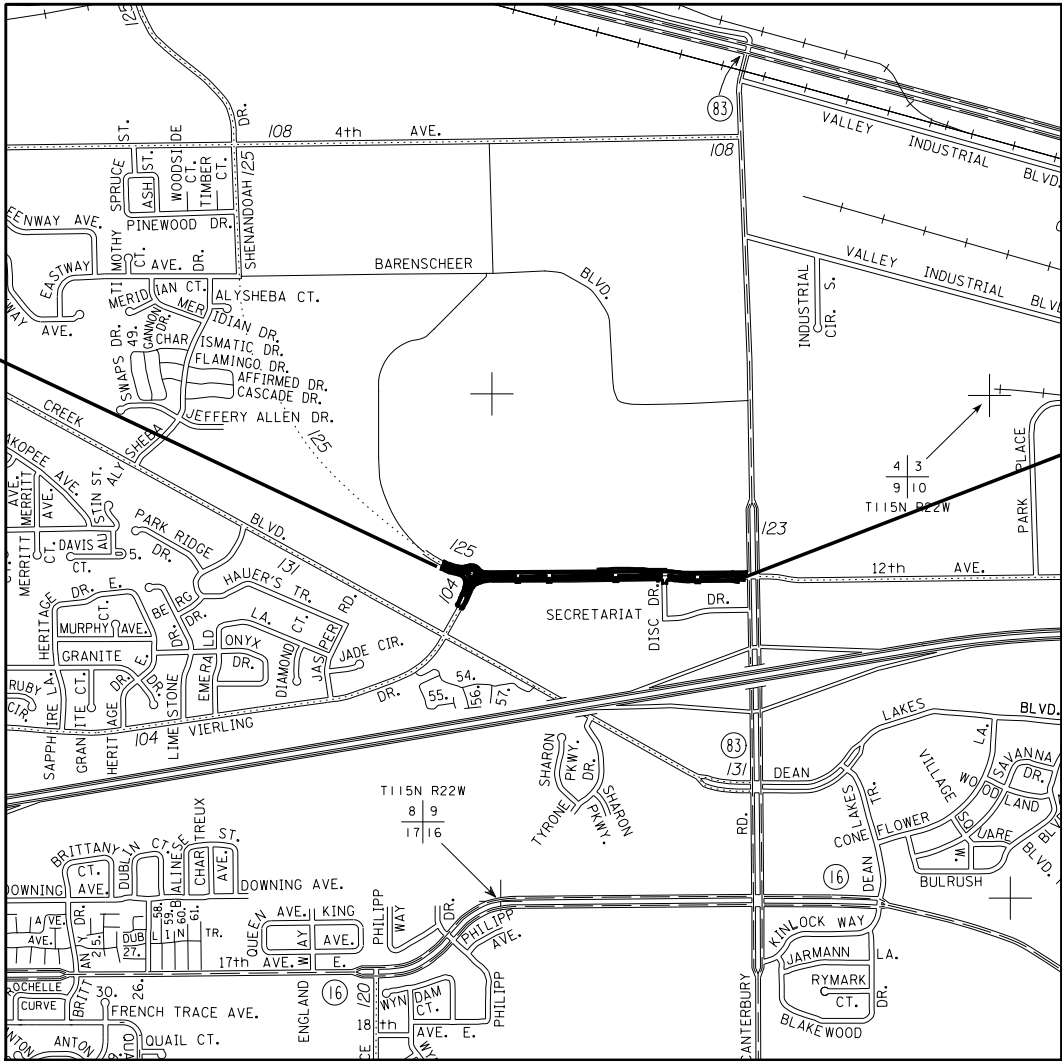
STATE AID PROJ. NO. 166-123-002

GROSS LENGTH 3186.26 FEET 0.603 MILES
BRIDGES-LENGTH FEET MILES
EXCEPTIONS-LENGTH FEET MILES
NET LENGTH 3186.26 FEET 0.603 MILES
REF. POINT TO REF. POINT
LENGTH AND DESCRIPTION BASED UPON (12TH AVENUE)



BEGIN SAP 166-123-002
BEGIN CP CIF 19-004
EB 12TH AVE
STA 103+70.52

END SAP 166-123-002
END CP CIF 19-004
EB 12TH AVE
STA 135+56.78



GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

CITY OF SHAKOPEE STANDARD SPECIFICATION FOR UTILITY AND STREET CONSTRUCTION.

INDEX

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3-4	STATEMENT OF ESTIMATED QUANTITIES & INDEX OF TABULATION
5	CONSTRUCTION / SOIL NOTES & STANDARD PLATES
6	EARTHWORK SUMMARY AND TABULATIONS
7-12	EXISTING UTILITY TABULATIONS
13-18	MISCELLANEOUS DETAILS
19-39	STANDARD PLAN SHEETS
40-44	TYPICAL SECTIONS
45-48	ALIGNMENT PLANS AND TABULATIONS
49-62	STAGING AND TRAFFIC CONTROL PLANS
63-66	EXISTING TOPOGRAPHY AND UTILITY PLANS
67-70	REMOVAL PLANS
71-73	CONSTRUCTION PLANS
74-76	PROFILES
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83-84	PEDESTRIAN CURB RAMP DETAILS
85-88	DRAINAGE PLANS
89-96	STORM SEWER PROFILES, TABULATIONS AND DETAILS
97-100	STORM WATER POLLUTION PREVENTION PLANS
101	WATER MAIN PLANS
102-105	TURF ESTABLISHMENT & SUPERELEVATION PLANS
106-108	SIGNING REMOVAL PLANS
109-121	SIGNING AND STRIPING PLAN AND DETAILS
122-124	LIGHTING PLANS AND DETAILS
125	CONTOUR PLANS
126-130	LANDSCAPING PLANS & DETAILS
131-132	CROSS SECTIONS MATCHLINE LAYOUT PLANS
133-159	CROSS SECTIONS

THIS PLAN CONTAINS 159 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.

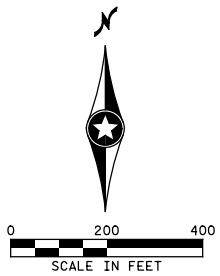
SIGNATURE
DATE 3/14/2019 LIC. NO. 53788 PRINT NAME BRANDON MAAS

RECOMMENDED FOR APPROVAL CITY ENGINEER, CITY OF SHAKOPEE 20

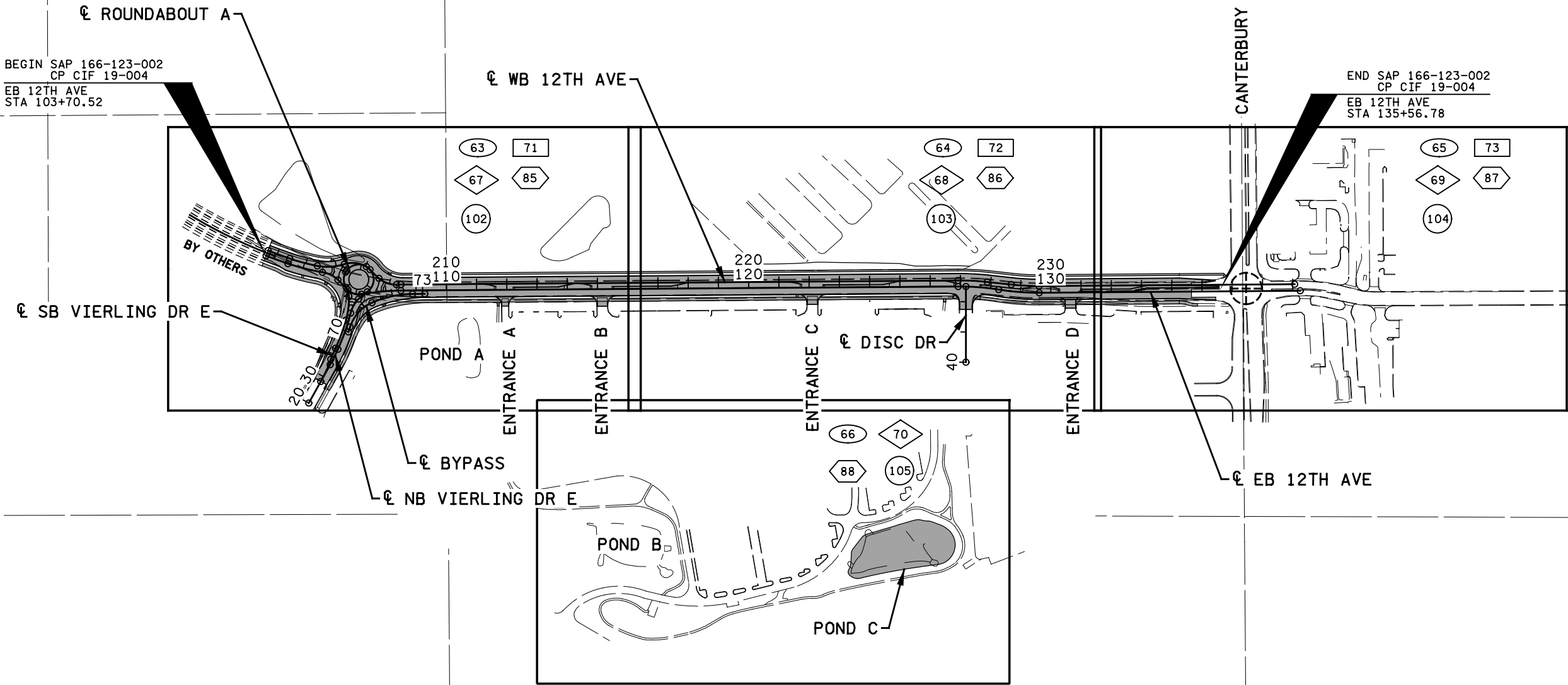
RECOMMENDED FOR APPROVAL DISTRICT STATE AID ENGINEER, REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY 20

LEGEND

- TOPOGRAPHY AND UTILITY PLAN SHEET NO.
- REMOVAL PLAN SHEET NO.
- CONSTRUCTION PLAN SHEET NO.
- DRAINAGE PLAN SHEET NO.
- TURF ESTABLISHMENT & SUPERELEVATION SHEET NO.
- INPLACE ROADWAY
- PROPOSED CONSTRUCTION
- EXISTING TRAFFIC SIGNAL



CITY OF SHAKOPEE
SCOTT COUNTY



NO	DATE	BY	CKD	APPR	REVISION



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: BRANDON J. MAAS

Date: _____ License # 53788

STATE AID PROJECT NO.
166-123-002

STATE PROJECT NO.

COUNTY PROJECT NO.

CITY PROJECT NO.
CIF 19-004

DRAWN BY
K. STRANDBERG

DESIGNED BY
B. MAAS

CHECKED BY
M. MOHS

COMM. NO. 1811855



CITY OF SHAKOPEE

GENERAL LAYOUT

12TH AVENUE RECONSTRUCTION

SHEET
2
OF
158

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NOTES:

- ① MATCH EXISTING
- ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113. PAID FOR AS 6" CONCRETE WALK.
- ③ CONSTRUCT PEDESTRIAN CURB RAMPS PER MNDOT STD. PLANS 5-297-250. SEE STANDARD PLANS AND PEDESTRIAN CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
- ④ HARDSCAPE MEDIAN - SEE TYPICAL SECTION GENERAL DETAIL B FOR ADDITIONAL INFORMATION.
- ⑤ LANDSCAPED MEDIAN - SEE TYPICAL SECTION GENERAL DETAIL C FOR ADDITIONAL INFORMATION.
- ⑥ SEE CITY OF SHAKOPEE STANDARD DETAIL PLATE 1003, SHAKOPEE STANDARD SURMOUNTABLE.

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.

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

ALL DIMENSIONS TO CURB & GUTTER ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.

WHERE NEW SIDEWALK AND TRAIL IS CONSTRUCTED ADJACENT TO EXISTING PAVEMENT, MATCH EXISTING CROSS SLOPE AND PROVIDE GRADUAL TRANSITION AS NECESSARY.

SEE INTERSECTION DETAILS, AND PEDESTRIAN RAMP DETAILS FOR INFORMATION NOT SHOWN ON THE CONSTRUCTION PLANS.

SEE RETAINING WALL PLANS AND PROFILES FOR RETAINING WALL INFORMATION.

SEE TURF ESTABLISHMENT & SUPERELEVATION PLANS FOR SUPERELEVATION TRANSITIONS.

SEE SIGNING AND STRIPING PLANS FOR LANE CONFIGURATIONS AND MARKINGS.

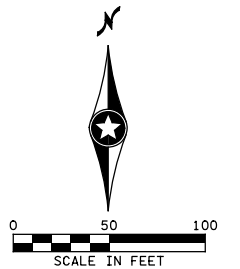
FOR PROPOSED PONDS SEE THE CONTOUR PLANS AND DRAINAGE PLANS.

SEE INTERSECTION DETAILS AND MISCELLANEOUS DETAILS FOR JOINTING AND OTHER ADDITIONAL INFORMATION.

INSTALL SALVAGED FENCE IMMEDIATELY AFTER REMOVAL.

LEGEND

- INPLACE PAVEMENT
- == PROPOSED CONSTRUCTION
- - - CONSTRUCTION LIMITS
- ◆ INSTALL SALVAGED FENCE
- DIRECTION OF TRAFFIC
- 4" CONCRETE WALK
SEE INSET B, PLAN SHEET NO. 40
- 6" CONCRETE WALK
SEE INSET C, PLAN SHEET NO. 40
- 3" BITUMINOUS TRAIL / WALK
SEE INSET D, PLAN SHEET NO. 40
- 10" CONCRETE APRON
SEE INSET E, PLAN SHEET NO. 40
- CONCRETE DRIVEWAY PAVEMENT
SEE MISCELLANEOUS DETAILS SHEET NO. 13



BEGIN SAP 166-123-002
CP CIF 19-004
EB 12TH AVE
STA 103+70.52

CONSTRUCTION
BY OTHERS

FUTURE CONSTRUCTION
(BY OTHERS)

ROUNDABOUT A

WB 12TH AVE

EB 12TH AVE

BYPASS

SB VIERLING DR E

NB VIERLING DR E

POND A

MATCH LINE STA 116+25.0
SEE SHEET 72

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NO	DATE	BY	CKD	APPR	REVISION



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Print Name: BRANDON J. MAAS

Date: 3/14/2019 License #: 53788

STATE AID PROJECT NO.
166-123-002

STATE PROJECT NO.

COUNTY PROJECT NO.

CITY PROJECT NO.
CIF 19-004

DRAWN BY
K. STRANDBERG

DESIGNED BY
B. MAAS

CHECKED BY
M. MOHS

COMM. NO. 1811855



CITY OF SHAKOPEE

CONSTRUCTION PLANS

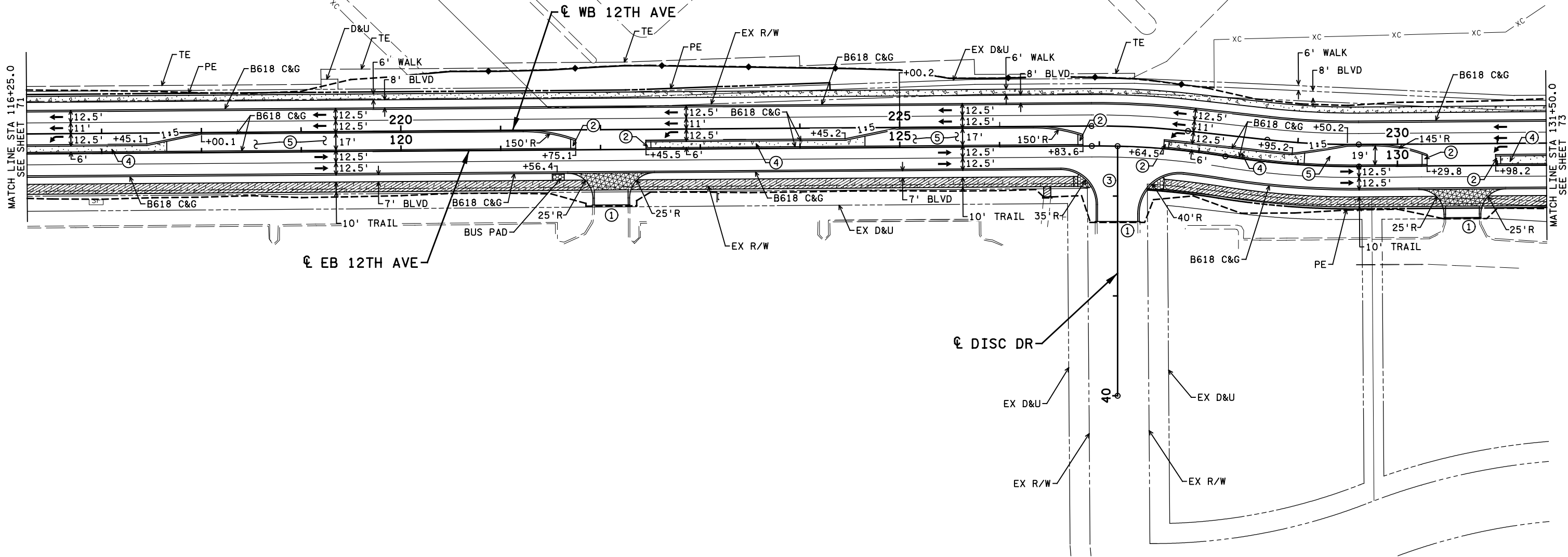
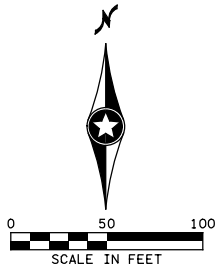
12TH AVENUE RECONSTRUCTION

SHEET
71
OF
159

NOTES:

SEE PLAN SHEET 71 FOR LEGEND AND GENERAL NOTES.

- ① MATCH EXISTING
- ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113. PAID FOR AS 6" CONCRETE WALK.
- ③ CONSTRUCT PEDESTRIAN CURB RAMPS PER MNDOT STD. PLANS 5-297-250. SEE STANDARD PLANS AND PEDESTRIAN CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
- ④ HARDSCAPE MEDIAN - SEE TYPICAL SECTION GENERAL DETAIL B FOR ADDITIONAL INFORMATION.
- ⑤ LANDSCAPED MEDIAN - SEE TYPICAL SECTION GENERAL DETAIL C FOR ADDITIONAL INFORMATION.



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Date 3/14/2019 License # 53788

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STATE PROJECT NO.

COUNTY PROJECT NO.

CITY PROJECT NO. CIF 19-004

DRAWN BY K. STRANDBERG

DESIGNED BY B. MAAS

CHECKED BY M. MOHS

COMM. NO. 1811855



CITY OF SHAKOPEE

CONSTRUCTION PLANS

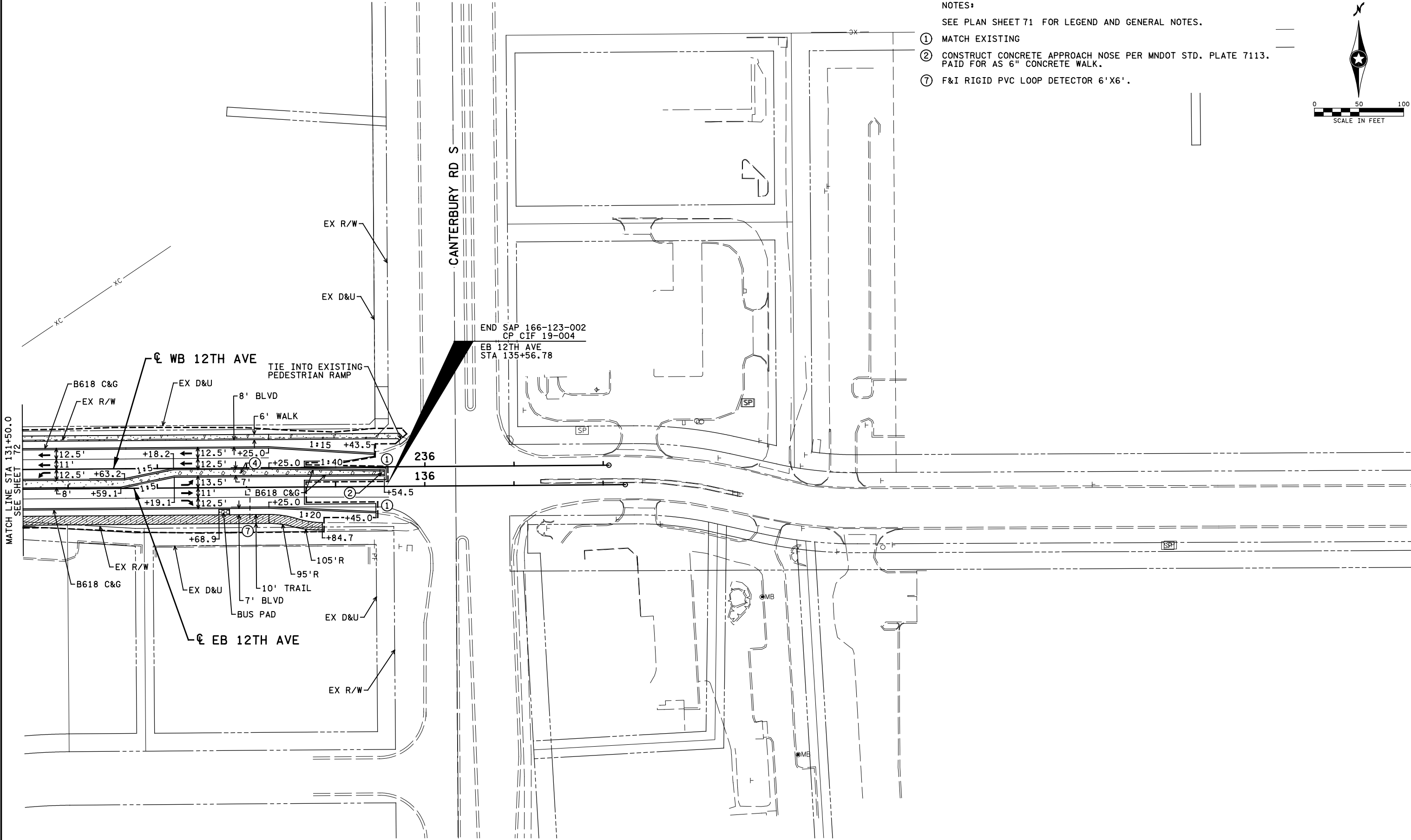
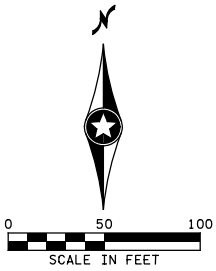
12TH AVENUE RECONSTRUCTION

SHEET 72 OF 159

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NO	DATE	BY	CHKD	APPR	REVISION

- NOTES:
- SEE PLAN SHEET 71 FOR LEGEND AND GENERAL NOTES.
- ① MATCH EXISTING
 - ② CONSTRUCT CONCRETE APPROACH NOSE PER MNDOT STD. PLATE 7113. PAID FOR AS 6" CONCRETE WALK.
 - ⑦ F&I RIGID PVC LOOP DETECTOR 6'X6'.



END SAP 166-123-002
CP CIF 19-004
EB 12TH AVE
STA 135+56.78

NO	DATE	BY	CKD	APPR	REVISION



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Print Name: BRANDON J. MAAS

Date 3/14/2019 License # 53788

STATE AID PROJECT NO. 166-123-002
STATE PROJECT NO. _____
COUNTY PROJECT NO. _____
CITY PROJECT NO. _____
CIF 19-004

DRAWN BY K. STRANDBERG
DESIGNED BY B. MAAS
CHECKED BY M. MOHS
COMM. NO. 1811855



CITY OF SHAKOPEE
CONSTRUCTION PLANS
12TH AVENUE RECONSTRUCTION

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OF
159

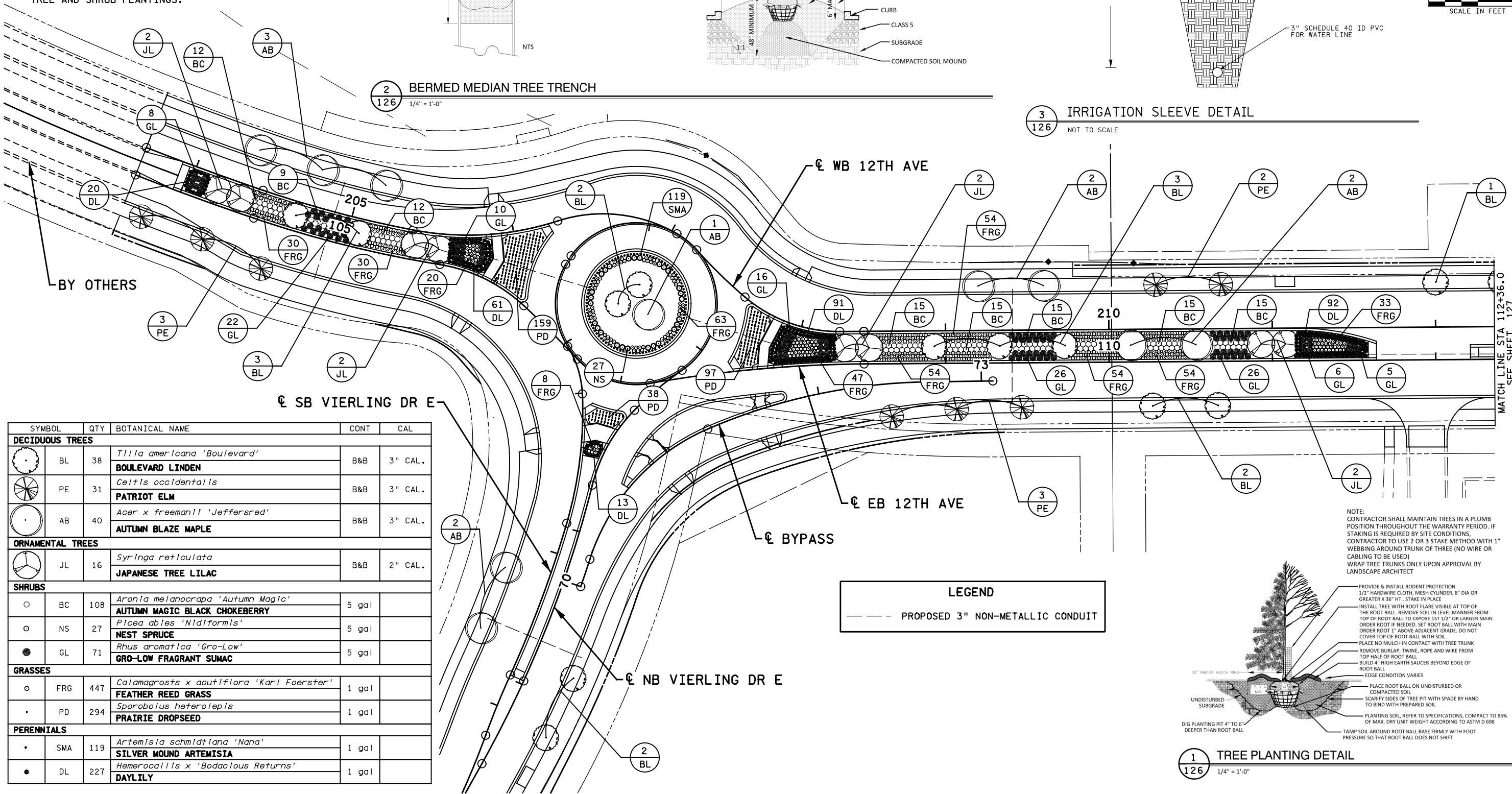
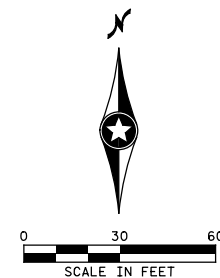
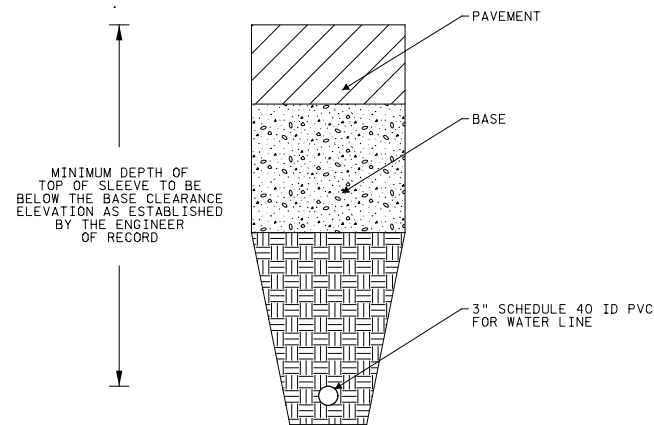
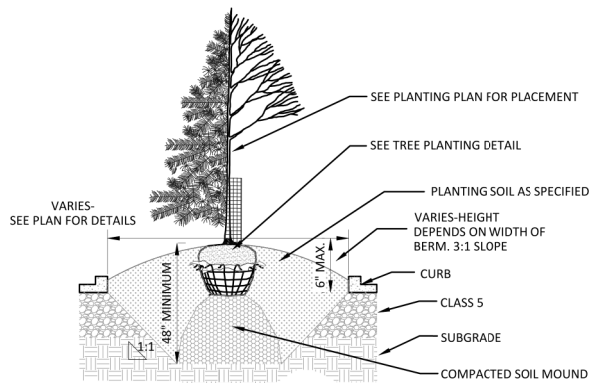
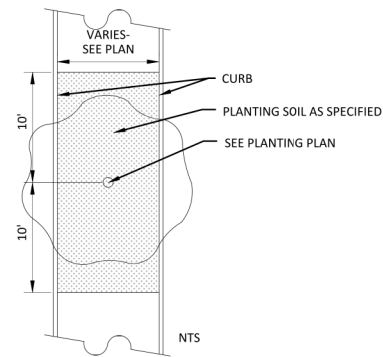
GENERAL NOTES:

REPORT ALL LAYOUT DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING.

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

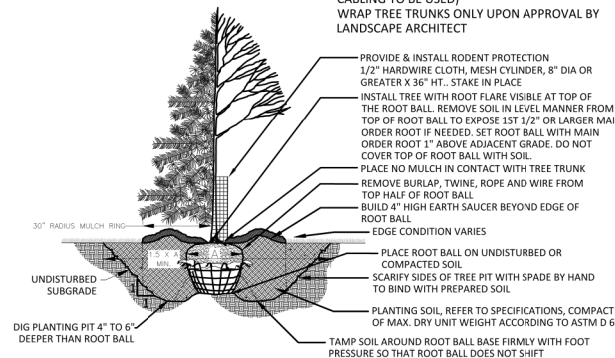
LEGEND AND ALL GENERAL NOTES APPLY TO ALL LANDSCAPE PLANS.

REFER TO PLANTING DETAILS ON THIS SHEET FOR ALL TREE AND SHRUB PLANTINGS.



SYMBOL	QTY	BOTANICAL NAME	CONT	CAL
DECIDUOUS TREES				
BL	38	<i>Tilia americana</i> 'Boulevard'	B&B	3" CAL.
		BOULEVARD LINDEN		
PE	31	<i>Celtis occidentalis</i>	B&B	3" CAL.
		PATRIOT ELM		
AB	40	<i>Acer x freemanii</i> 'Jeffersred'	B&B	3" CAL.
		AUTUMN BLAZE MAPLE		
ORNAMENTAL TREES				
JL	16	<i>Syringa reticulata</i>	B&B	2" CAL.
		JAPANESE TREE LILAC		
SHRUBS				
BC	108	<i>Aronia melanocarpa</i> 'Autumn Magic'	5 gal	
		AUTUMN MAGIC BLACK CHOKEBERRY		
NS	27	<i>Picea abies</i> 'Nidiformis'	5 gal	
		NEST SPRUCE		
GL	71	<i>Rhus aromatica</i> 'Gro-Low'	5 gal	
		GRO-LOW FRAGRANT SUMAC		
GRASSES				
FRG	447	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	1 gal	
		FEATHER REED GRASS		
PD	294	<i>Sporobolus heterolepis</i>	1 gal	
		PRAIRIE DROPS EED		
PERENNIALS				
SMA	119	<i>Artemisia schmidtiana</i> 'Nana'	1 gal	
		SILVER MOUND ARTEMISIA		
DL	227	<i>Hemerocallis</i> x 'Bodacious Returns'	1 gal	
		DAYLILY		

NOTE:
CONTRACTOR SHALL MAINTAIN TREES IN A PLUMB POSITION THROUGHOUT THE WARRANTY PERIOD. IF STAKING IS REQUIRED BY SITE CONDITIONS, CONTRACTOR TO USE 2 OR 3 STAKE METHOD WITH 1" WEBBING AROUND TRUNK OF THREE (NO WIRE OR CABLE TO BE USED)
WRAP TREE TRUNKS ONLY UPON APPROVAL BY LANDSCAPE ARCHITECT



1
126
1/4" = 1'-0"



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: BRANDON J. MAAS

Date 3/14/2019 License # 53788

STATE AID PROJECT NO. 166-123-002

STATE PROJECT NO.

COUNTY PROJECT NO.

CITY PROJECT NO. C1F 19-004

DRAWN BY J. VAN BECK

DESIGNED BY D. WALDEN

CHECKED BY M. MOHS

COMM. NO. 1811855

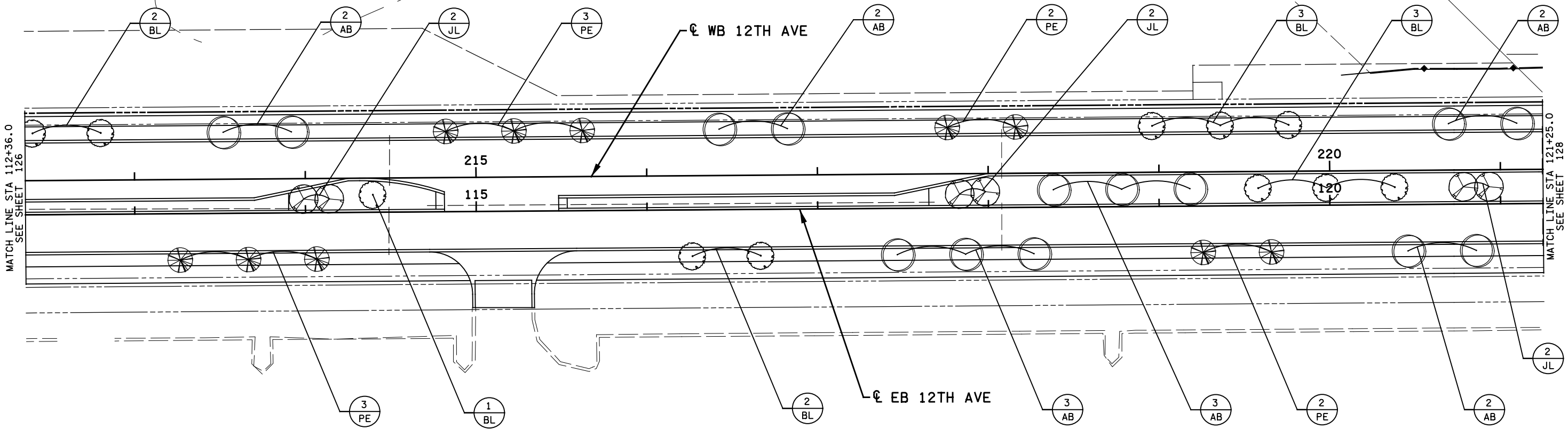
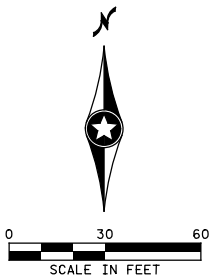


CITY OF SHAKOPEE
LANDSCAPING PLANS
12TH AVENUE RECONSTRUCTION

SHEET
126
OF
159

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NOTES:
SEE PLAN SHEET 126 FOR PLANT SCHEDULE, GENERAL NOTES,
PLANTING DETAILS, AND LEGEND.



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NO	DATE	BY	CKD	APPR	REVISION
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Print Name: BRANDON J. MAAS
Date 3/14/2019 License # 53788

STATE AID PROJECT NO.
166-123-002
STATE PROJECT NO.
COUNTY PROJECT NO.
CITY PROJECT NO.
CIF 19-004

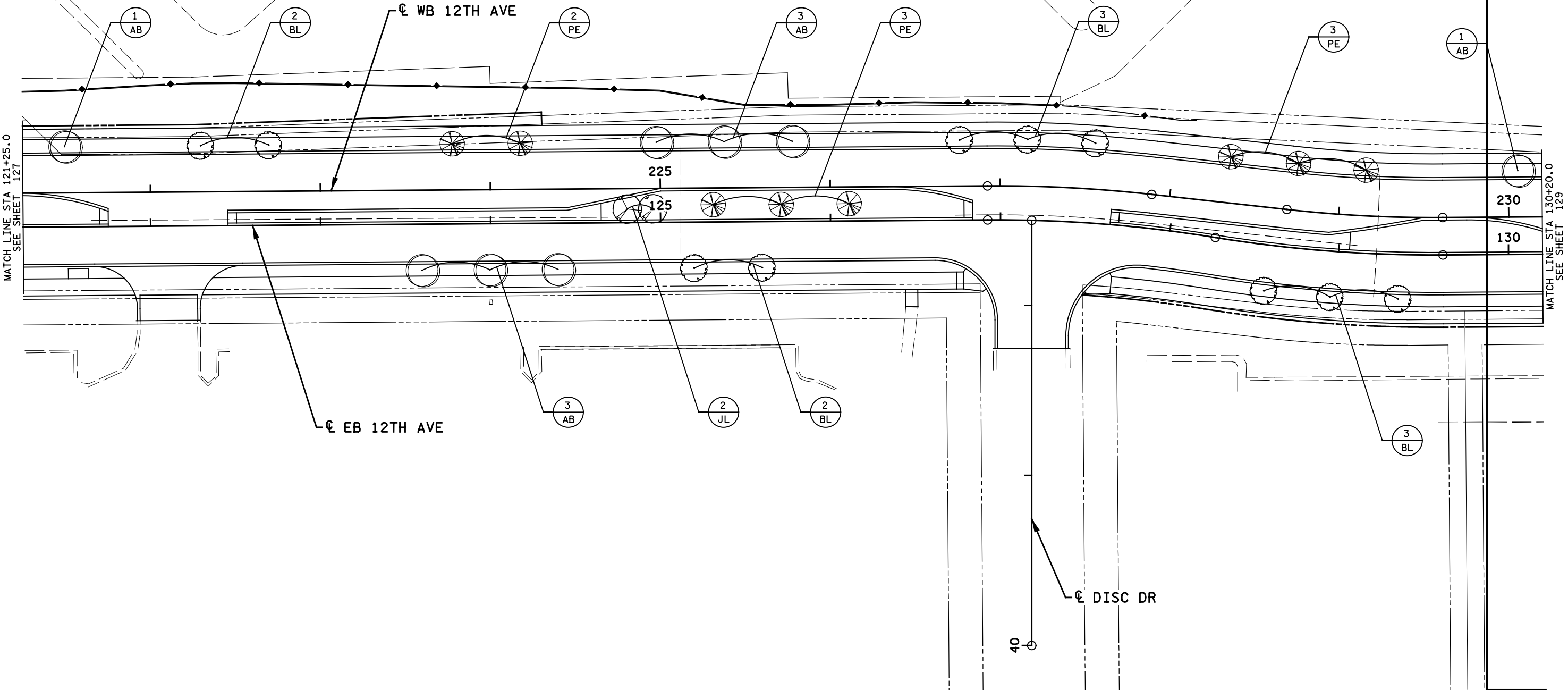
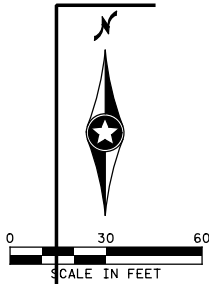
DRAWN BY
J. VAN BECK
DESIGNED BY
D. WALDEN
CHECKED BY
M. MOHS
COMM. NO. 1811855



CITY OF SHAKOPEE
LANDSCAPING PLANS
12TH AVENUE RECONSTRUCTION

SHEET
127
OF
159

NOTES:
SEE PLAN SHEET 126 FOR PLANT SCHEDULE, GENERAL NOTES,
PLANTING DETAILS, AND LEGEND.



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NO	DATE	BY	CKD	APPR	REVISION
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Print Name: BRANDON J. MAAS
Date 3/14/2019 License # 53788

STATE AID PROJECT NO.
166-123-002
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CIF 19-004

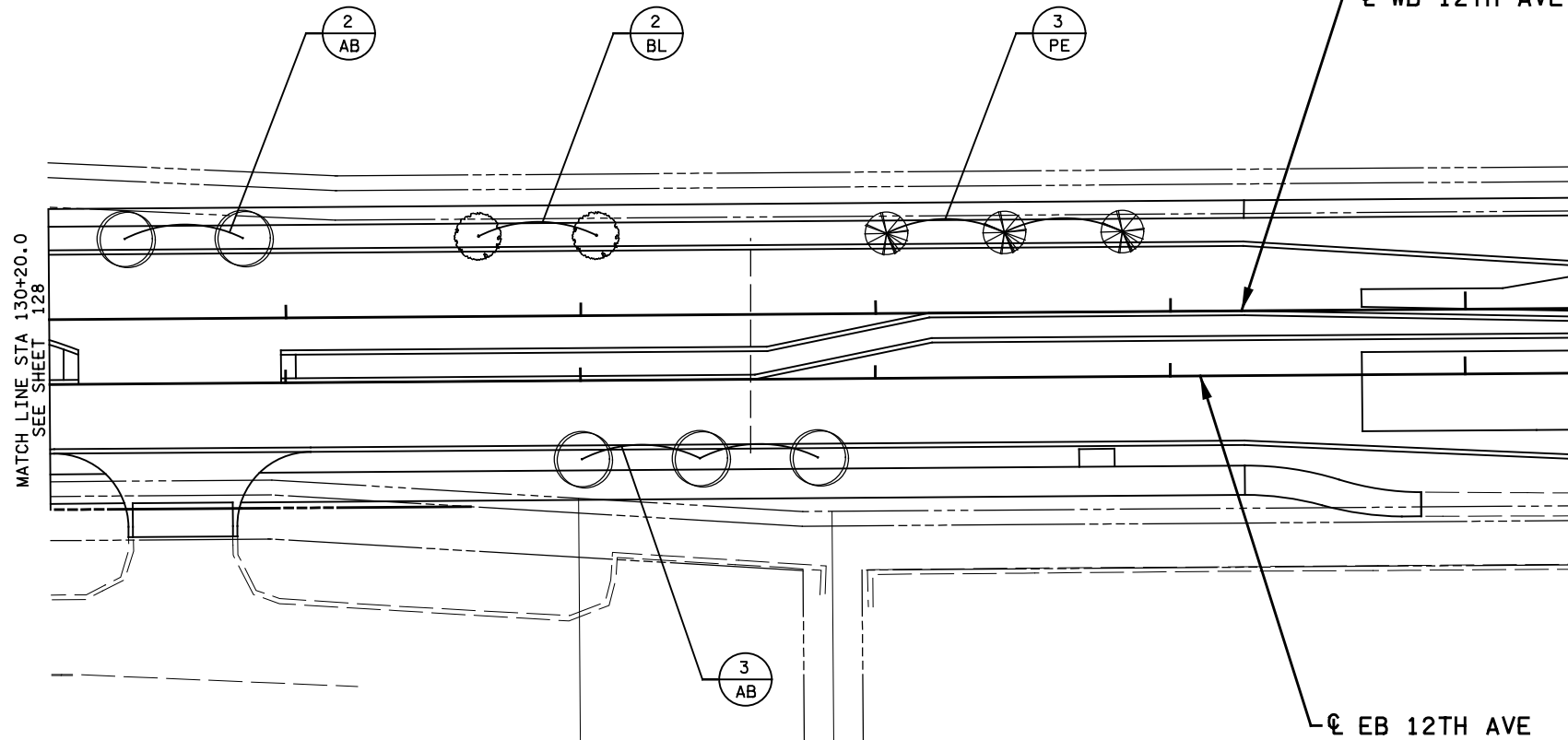
DRAWN BY
J. VAN BECK
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D. WALDEN
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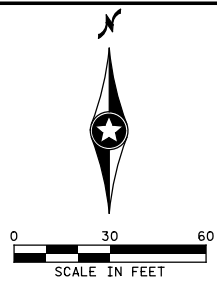
CITY OF SHAKOPEE
LANDSCAPING PLANS
12TH AVENUE RECONSTRUCTION

SHEET
128
OF
159

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NOTES:
SEE PLAN SHEET 126 FOR PLANT SCHEDULE, GENERAL NOTES,
PLANTING DETAILS, AND LEGEND.



NO	DATE	BY	CKD	APPR	REVISION
...F InaIP lan\11855_1n05.dgn					



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Print Name: BRANDON J. MAAS
Date 3/14/2019 License # 53788

STATE AID PROJECT NO.
166-123-002
STATE PROJECT NO.
COUNTY PROJECT NO.
CITY PROJECT NO.
CIF 19-004

DRAWN BY
J. VAN BECK
DESIGNED BY
D. WALDEN
CHECKED BY
M. MOHS
COMM. NO. 1811855



CITY OF SHAKOPEE
LANDSCAPING PLANS
12TH AVENUE RECONSTRUCTION

SHEET
129
OF
159