

MINNESOTA DEPARTMENT OF TRANSPORTATION CITY OF MINNEAPOLIS

HENNEPIN COUNTY, MINNESOTA

CONSTRUCTION PLANS FOR: CONCRETE CURB AND GUTTER, SIDEWALK,
LIGHTING, STREETScape, LANDSCAPE AND TURF ESTABLISHMENT
LOCATED ON FRANKLIN AVE. FROM BLOOMINGTON AVE. S. TO 21ST AVE. S.
AND CEDAR AVE. FROM HIAWATHA LRT TO FRANKLIN AVE.
FRANKLIN AVENUE STREETScape

S.P. 141-020-107
CITY PROJECT NO. 600D2998

FED. PROJ. NO. TEAX 2711 (158)

GOVERNING SPECIFICATIONS

THE 2005 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 LATEST EDITION OF THE 'MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL
DEVICES' (MNMUTCD), INCLUDING THE LATEST 'FIELD MANUAL FOR TEMPORARY
TRAFFIC CONTROL ZONE LAYOUTS'.

CITY OF MINNEAPOLIS STANDARD SPECIFICATION FOR UTILITY AND STREET
CONSTRUCTION 2010.

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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
- S-STONE
- B-BRICK
- C-CONCRETE
- T-TILE
- ST-STUCCO

- IRON PIPE OR ROD
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB

- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

UTILITY SYMBOLS

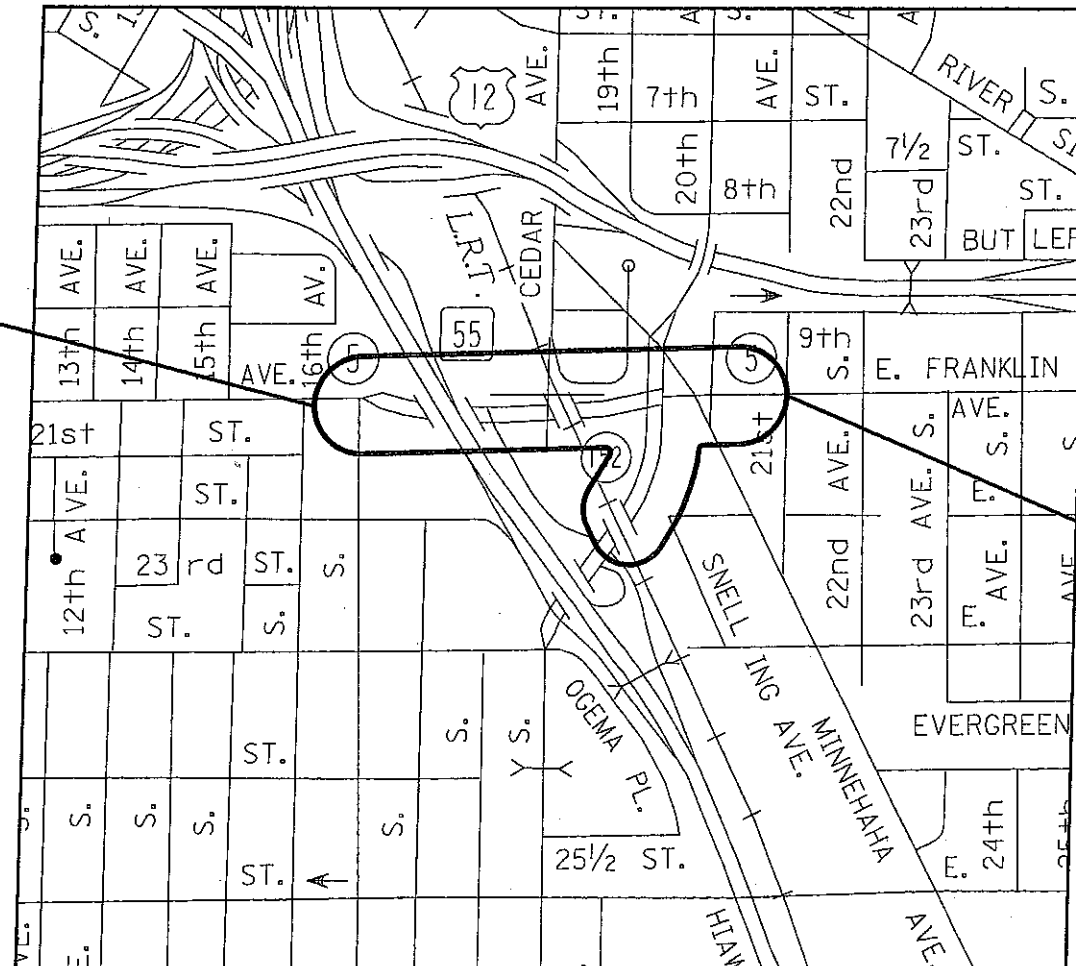
- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE AND POWER ON POWER POLES
- ON TELEPHONE POLES

- 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

BEGIN S.P. 141-020-107
FRANKLIN AVE.
STA. 1004+00.00



END S.P. 141-020-107
FRANKLIN AVE.
STA. 1029+39.60

PROJECT LOCATION
COUNTY: HENNEPIN
DISTRICT: METRO

DESIGN DESIGNATION FOR:

R-VALUE	FRANKLIN AVE.
ADT (Current Year) 2011 =	17,860
ADT (Future Year) 2031 =	21,060
PAVEMENT DESIGN	10 TON
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
NO. OF TRAFFIC LANES	4
NO. OF PARKING LANES	2
ESALS (20)	N/A
Design Speed	30 MPH
Based on Sight Distance	STOPPING
Height of eye / Height of Object	3.5' / 2.0'
Design Speed not achieved at:	NA

SCALES

INDEX MAP	1000'
GENERAL LAYOUT	200'
PLAN	100'
PROFILE	100' HORIZ. / 10' VERT.

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

THIS PLAN CONTAINS 82 SHEETS

SRE CONSULTING GROUP, INC.

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: *Brian D. Holt*
DATE: 3/14/11 LIC. NO. 21428 PRINT NAME: BRIAN D. HOLT

APPROVED: *[Signature]* 3/16/11
MINNEAPOLIS CITY ENGINEER OR DEPUTY CITY ENGINEER

APPROVED: *[Signature]* 3/15/11
DIRECTOR, TRAFFIC & PARKING SERVICES

APPROVED: *[Signature]* 3/15/11
DIRECTOR, TRANSPORTATION PLANNING & ENGINEERING

APPROVED: *[Signature]* 3/15/11
DIRECTOR, TRANSPORTATION MAINTENANCE & REPAIR

APPROVED: *[Signature]* 3/15/11
DIRECTOR, SURFACE WATER & SEWERS

APPROVED: *[Signature]* 3/15/11
DIRECTOR, WATER TREATMENT & DISTRIBUTION

RECOMMENDED FOR APPROVAL: *[Signature]* 3/15/11
HENNEPIN COUNTY DESIGN DIVISION ENGINEER

APPROVED: *[Signature]* 3/15/11
HENNEPIN COUNTY DIRECTOR, TRANSPORTATION DEPARTMENT AND COUNTY ENGINEER

DISTRICT STATE AID ENGINEER REVIEWED FOR COMPLIANCE WITH STATE AND/OR FEDERAL AID RULES/POLICY

APPROVED FOR STATE AND/OR FEDERAL AID FUNDING: STATE AID ENGINEER

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.

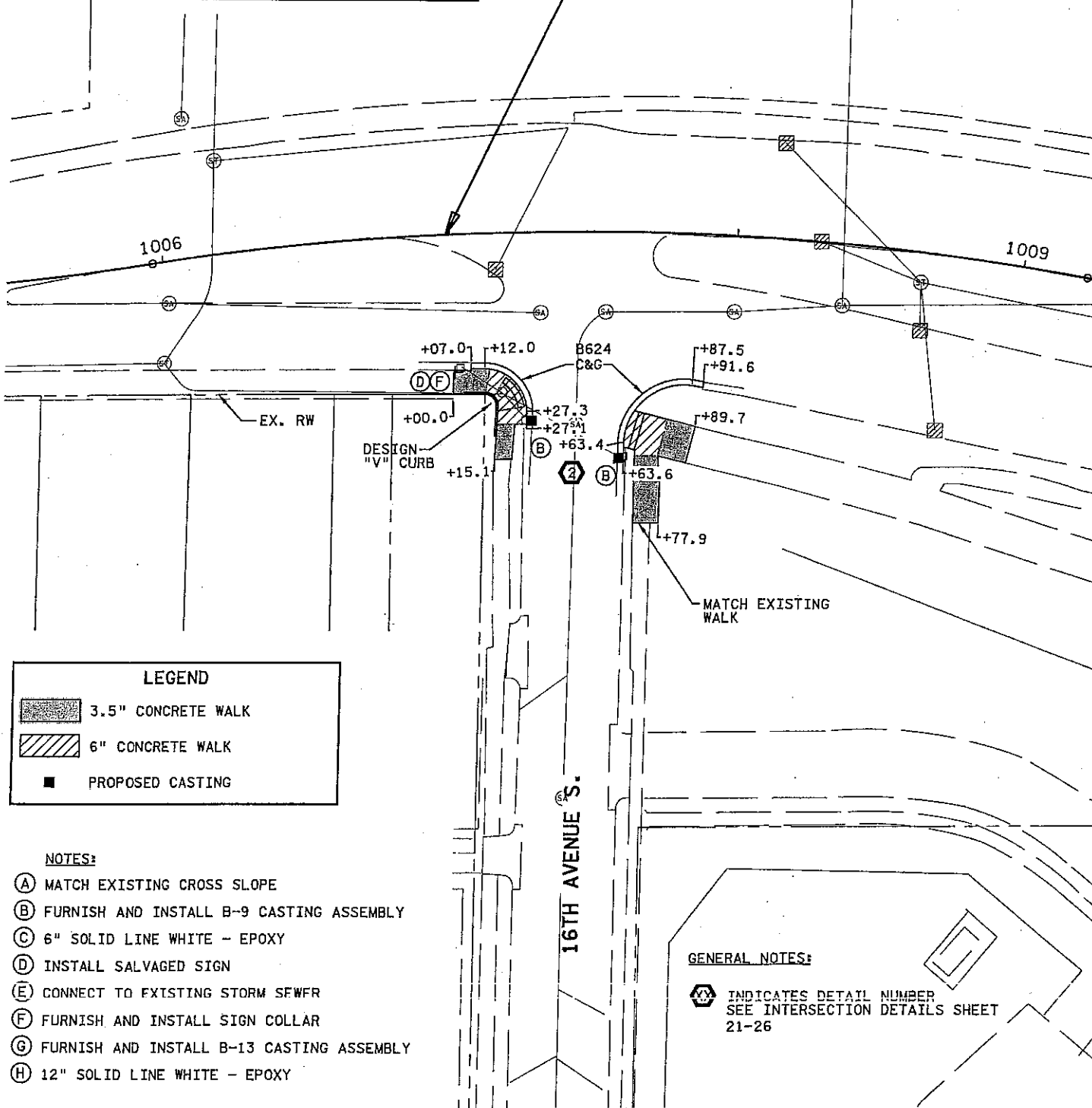
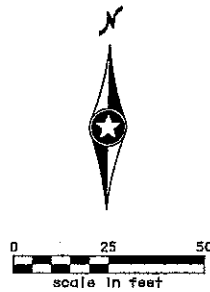
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO GUIDELINES OF C/ASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

S.P. 141-020-107

SHEET NO. 1 OF 82 SHEETS

STREET RADII			
RADIUS	ALIGNMENT	STATION	LOCATION
15.0'	FRANKLIN	1007+10.5	62.4' (RT)
20.0'	FRANKLIN	1007+85.8	73.0' (RT)

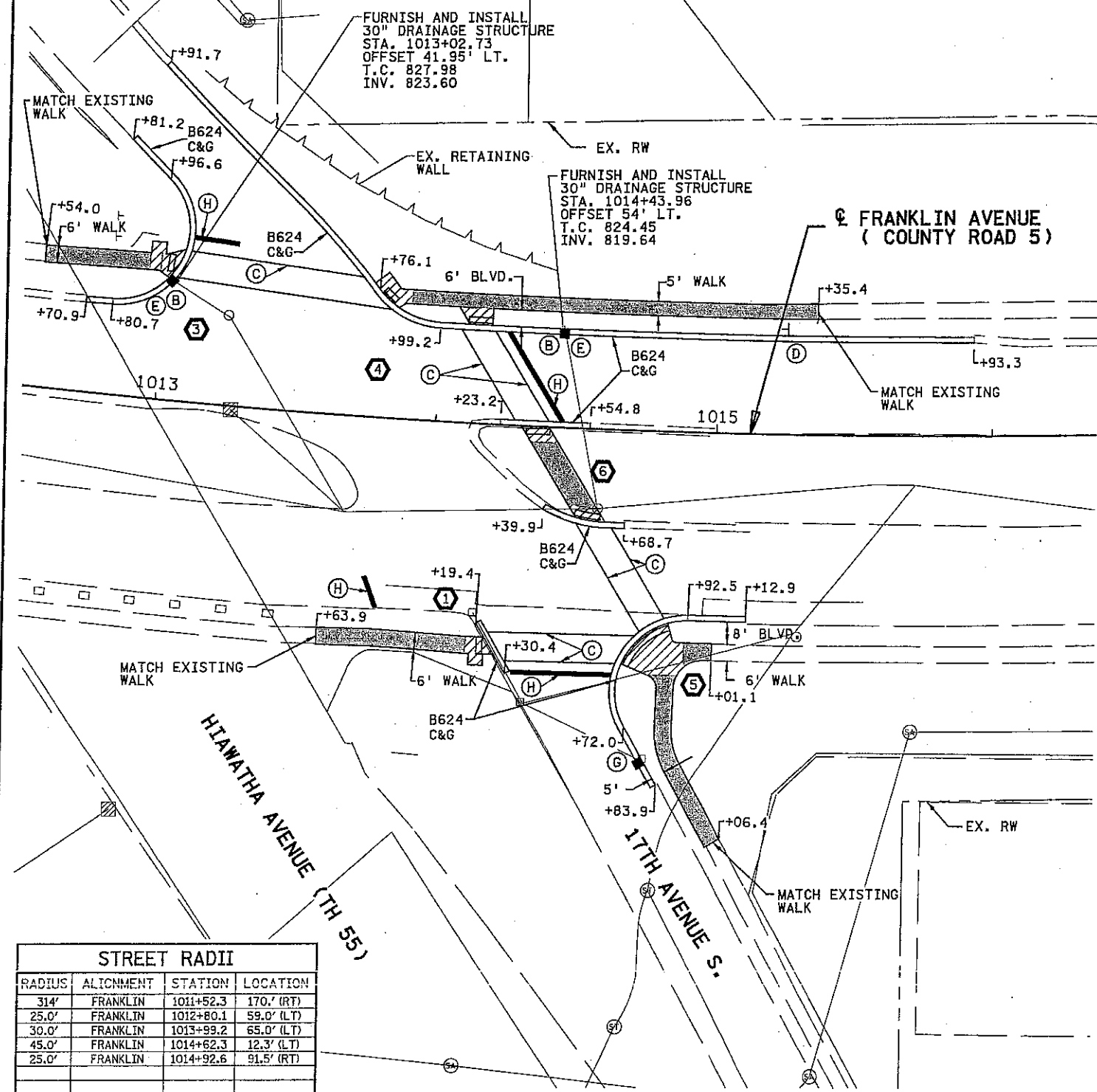
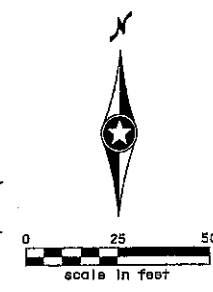
FRANKLIN AVENUE
(CSAH 5)



LEGEND	
	3.5" CONCRETE WALK
	6" CONCRETE WALK
	PROPOSED CASTING

- NOTES:
- (A) MATCH EXISTING CROSS SLOPE
 - (B) FURNISH AND INSTALL B-9 CASTING ASSEMBLY
 - (C) 6" SOLID LINE WHITE - EPOXY
 - (D) INSTALL SALVAGED SIGN
 - (E) CONNECT TO EXISTING STORM SFWR
 - (F) FURNISH AND INSTALL SIGN COLLAR
 - (G) FURNISH AND INSTALL B-13 CASTING ASSEMBLY
 - (H) 12" SOLID LINE WHITE - EPOXY

GENERAL NOTES:
 INDICATES DETAIL NUMBER
 SEE INTERSECTION DETAILS SHEET
 21-26



STREET RADII			
RADIUS	ALIGNMENT	STATION	LOCATION
314'	FRANKLIN	1011+52.3	170.7' (RT)
25.0'	FRANKLIN	1012+80.1	59.0' (LT)
30.0'	FRANKLIN	1013+99.2	65.0' (LT)
45.0'	FRANKLIN	1014+62.3	12.3' (LT)
25.0'	FRANKLIN	1014+92.6	91.5' (RT)

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NO	DATE	BY	CHKD	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: JAMES D. GERSEMA
 License # 43555
 Date: 2/23/11

DRAWN BY
M. IISARKA
 DESIGNED BY
A. KLEIN
 CHECKED BY
J. GERSEMA
 COMM. NO. 0107197



CITY OF MINNEAPOLIS
 CONSTRUCTION PLAN
 FRANKLIN AVENUE STREETScape

SHEET
 18
 OF
 82

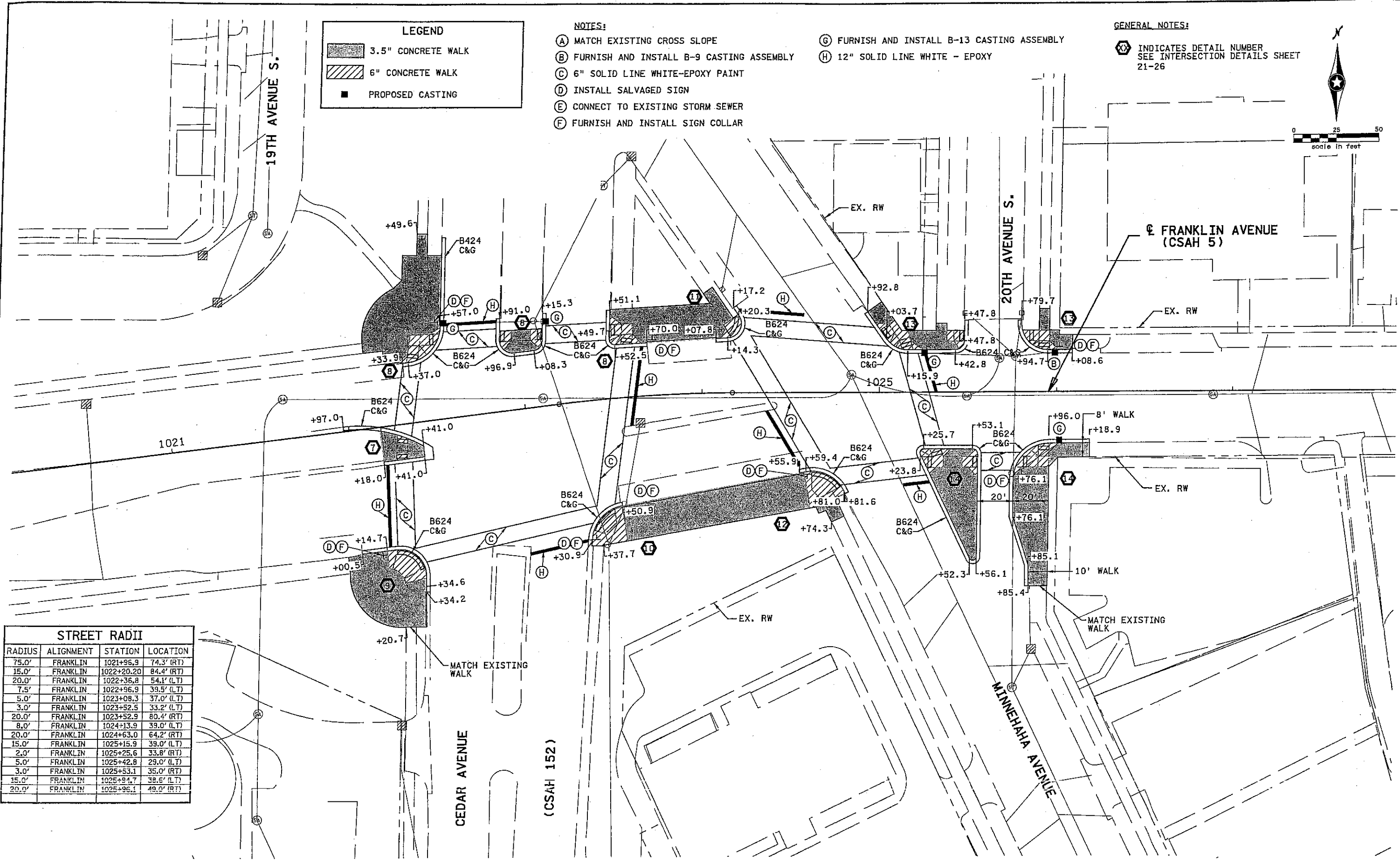
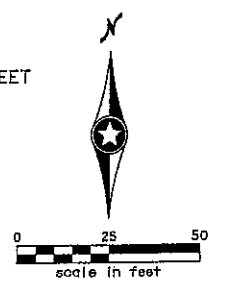
LEGEND

	3.5" CONCRETE WALK
	6" CONCRETE WALK
	PROPOSED CASTING

- NOTES:**
- (A) MATCH EXISTING CROSS SLOPE
 - (B) FURNISH AND INSTALL B-9 CASTING ASSEMBLY
 - (C) 6" SOLID LINE WHITE-EPOXY PAINT
 - (D) INSTALL SALVAGED SIGN
 - (E) CONNECT TO EXISTING STORM SEWER
 - (F) FURNISH AND INSTALL SIGN COLLAR
 - (G) FURNISH AND INSTALL B-13 CASTING ASSEMBLY
 - (H) 12" SOLID LINE WHITE - EPOXY

GENERAL NOTES:

INDICATES DETAIL NUMBER SEE INTERSECTION DETAILS SHEET 21-26



STREET RADII

RADIUS	ALIGNMENT	STATION	LOCATION
75.0'	FRANKLIN	1021+96.9	74.3' (RT)
15.0'	FRANKLIN	1022+20.20	84.4' (RT)
20.0'	FRANKLIN	1022+36.8	54.1' (LT)
7.5'	FRANKLIN	1022+96.9	39.5' (LT)
5.0'	FRANKLIN	1023+08.3	37.0' (LT)
3.0'	FRANKLIN	1023+52.5	33.2' (LT)
20.0'	FRANKLIN	1023+52.9	80.4' (RT)
8.0'	FRANKLIN	1024+13.9	39.0' (LT)
20.0'	FRANKLIN	1024+63.0	64.2' (RT)
15.0'	FRANKLIN	1025+15.9	39.0' (LT)
2.0'	FRANKLIN	1025+25.6	33.8' (RT)
5.0'	FRANKLIN	1025+42.8	29.0' (LT)
3.0'	FRANKLIN	1025+53.1	35.0' (RT)
15.0'	FRANKLIN	1025+94.7	38.6' (LT)
20.0'	FRANKLIN	1025+96.1	49.0' (RT)

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NO	DATE	BY	CHKD	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: **JAMES D. GERSEMA**

Date: 2/22/11 License # 43555

STATE PROJECT NO. 141-020-107
CITY PROJECT NO. 600D2998

DRAWN BY M. IISAKKA
DESIGNED BY A. KLEIN
CHECKED BY J. GERSEMA
COMM. NO. 0107197

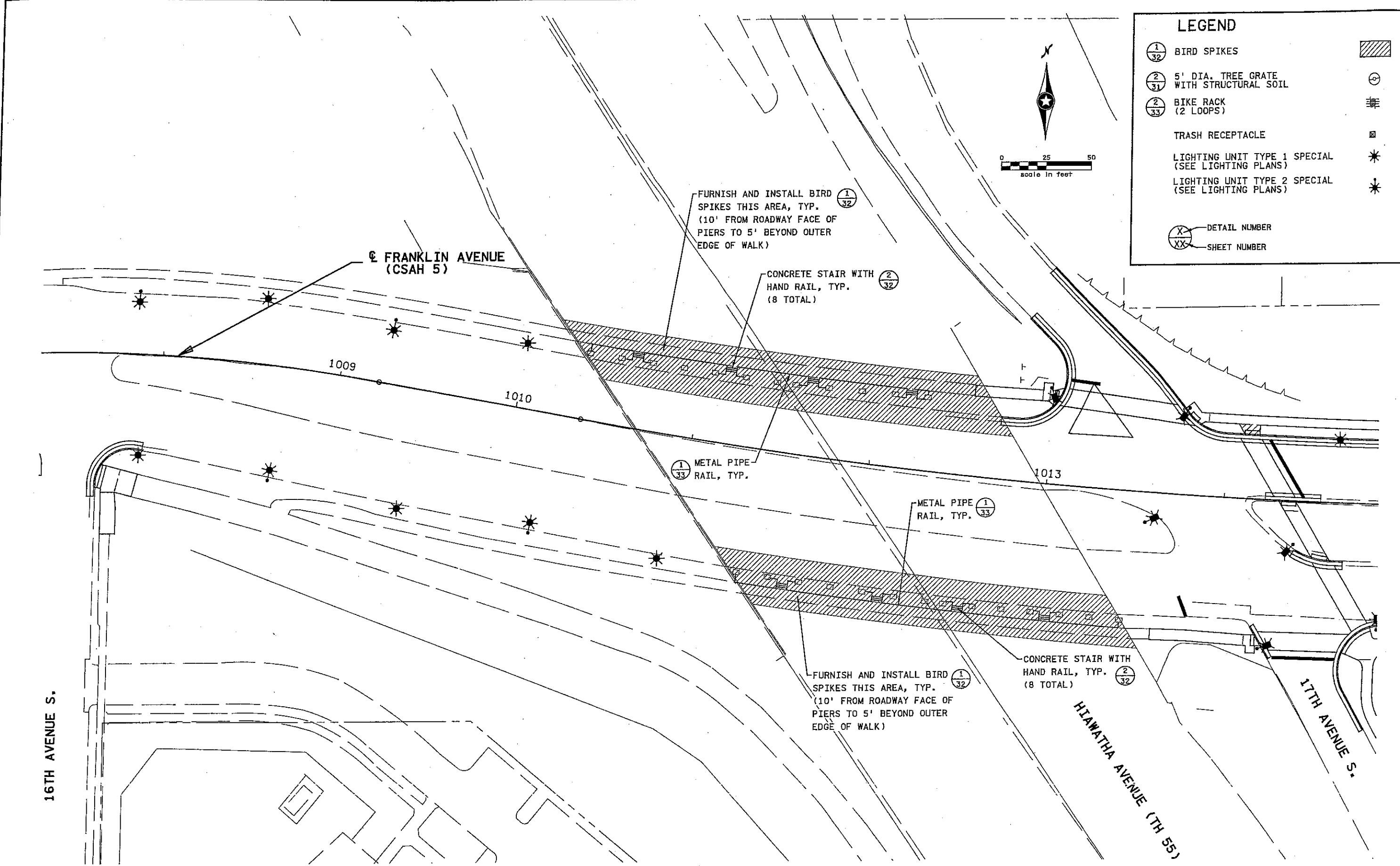
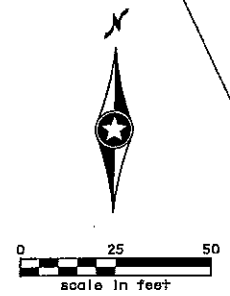


CITY OF MINNEAPOLIS
CONSTRUCTION PLAN
FRANKLIN AVENUE STREETScape

SHEET 19 OF 82

LEGEND

- (1/32) BIRD SPIKES
- (2/31) 5' DIA. TREE GRATE WITH STRUCTURAL SOIL
- (2/33) BIKE RACK (2 LOOPS)
- TRASH RECEPTACLE
- LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS)
- LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS)
- (X) DETAIL NUMBER
- (XX) SHEET NUMBER



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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 Landscape Architect under the laws of the State of Minnesota.

Pr Int Name: **TIMOTHY B. WOLD**

(Signature)

Date: **2-25-11** License # **42164**

STATE PROJECT NO.
141-020-107

CITY PROJECT NO.
60002998

DRAWN BY
T. WOLD

DESIGNED BY
T. WOLD

CHECKED BY
M. MCGARVEY

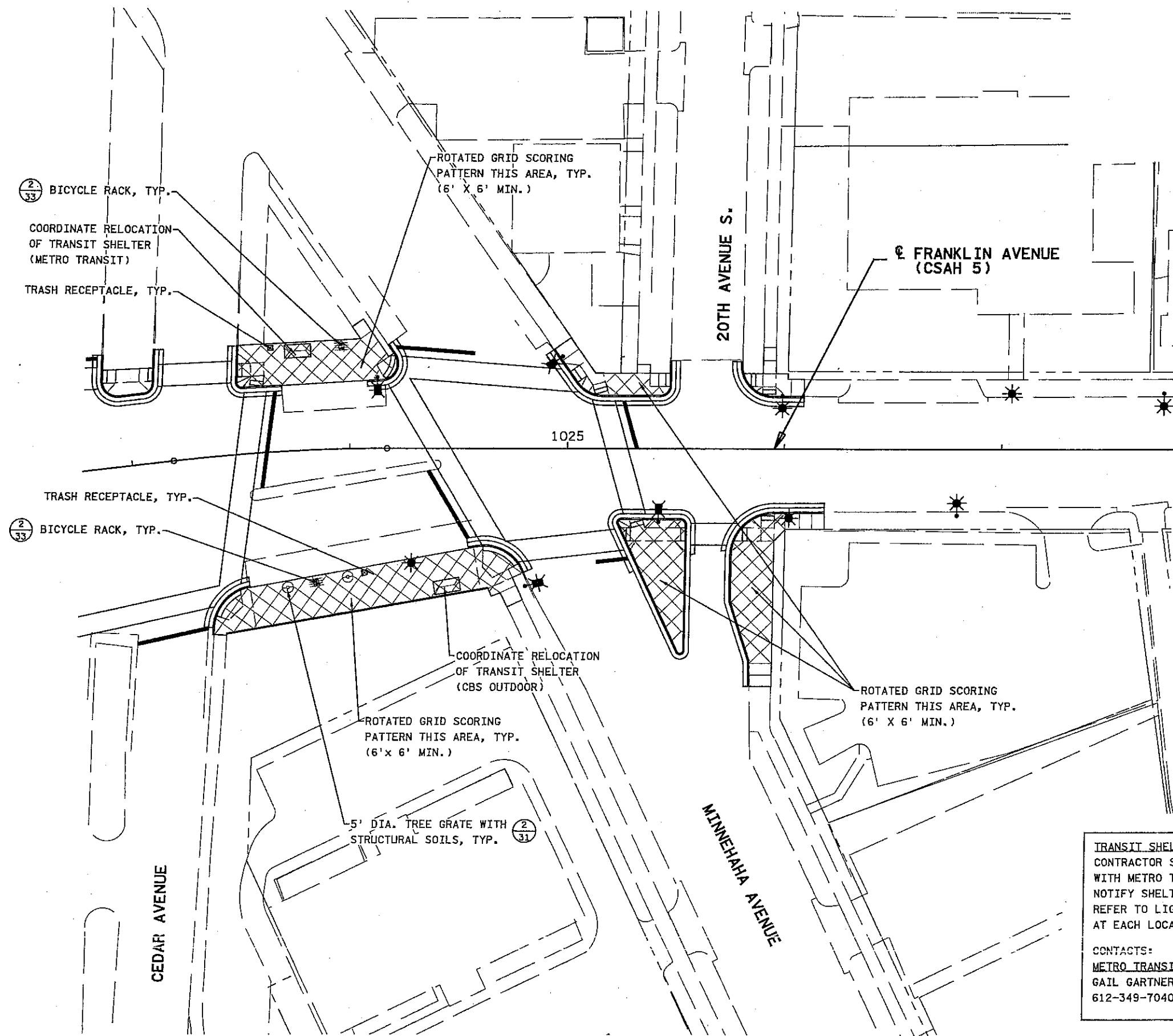
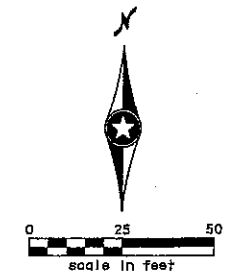
COMM. NO. 0107197



CITY OF MINNEAPOLIS

STREETScape PLAN
FRANKLIN AVENUE STREETScape

SHEET
27
OF
82



LEGEND

① 32	BIRD SPIKES	
② 31	5' DIA. TREE GRATE WITH STRUCTURAL SOIL	
② 33	BIKE RACK (2 LOOPS)	
	TRASH RECEPTACLE	
	LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS)	
	LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS)	
X	DETAIL NUMBER	
XX	SHEET NUMBER	

TRANSIT SHELTER RELOCATION NOTE:
 CONTRACTOR SHALL COORDINATE RELOCATION OF TRANSIT SHELTERS WITH METRO TRANSIT/CBS OUTDOOR AS NOTED. CONTRACTOR SHALL NOTIFY SHELTER SERVICE PROVIDER 30 DAYS PRIOR TO RELOCATION. REFER TO LIGHTING PLANS FOR ELECTRICAL SERVICE REQUIREMENTS AT EACH LOCATION.

CONTACTS:
METRO TRANSIT
 GAIL GARTNER
 612-349-7040

CBS OUTDOOR
 BRYAN ANDERSON
 952-920-1657

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NO	DATE	BY	CHKD	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 Landscape Architect under the laws of the State of Minnesota.

Print Name: **TIMOTHY B. WOLD**

Date: **2.25.11** License #: **42164**

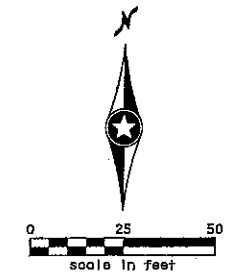
DRAWN BY: T. WOLD
 DESIGNED BY: T. WOLD
 CHECKED BY: M. MCCARVEY
 COMM. NO.: 0107197

STATE PROJECT NO. 141-020-107
 CITY PROJECT NO. 600D2998












SRF CONSULTING GROUP, INC.

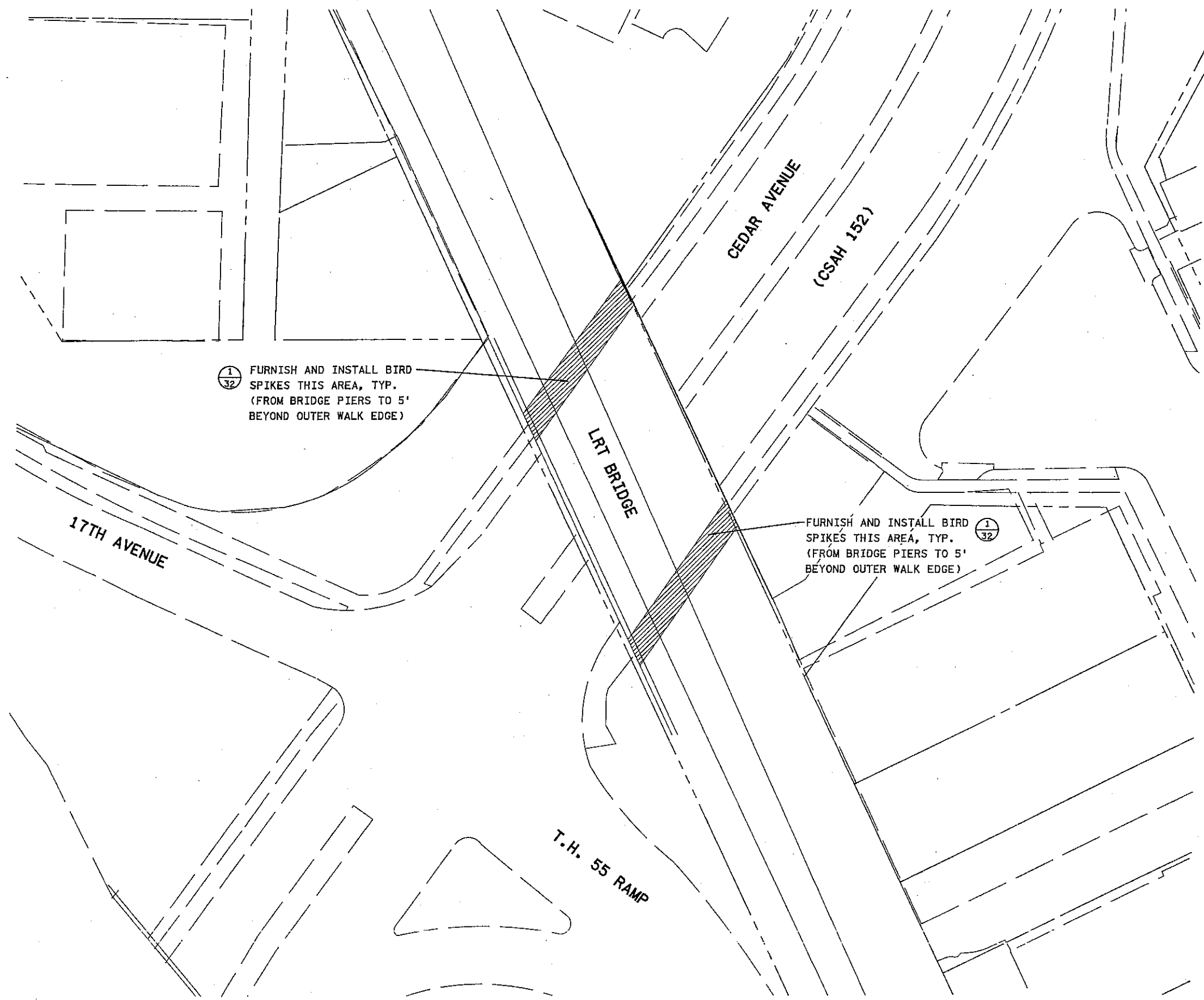
CITY OF MINNEAPOLIS
 STREETScape PLAN
 FRANKLIN AVENUE STREETScape

SHEET 29 OF 82



LEGEND

-  BIRD SPIKES 
-  5' DIA. TREE GRATE WITH STRUCTURAL SOIL 
-  BIKE RACK (2 LOOPS) 
- TRASH RECEPTACLE 
- LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS) 
- LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS) 
-  - DETAIL NUMBER
-  - SHEET NUMBER



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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 Landscape Architect under the laws of the State of Minnesota.

Print Name: **TIMOTHY B. WOLD**

T. Wold

Date: **2.05.11** License #: **42164**

STATE PROJECT NO.
141-020-107

CITY PROJECT NO.
60002998

DRAWN BY
T. WOLD

DESIGNED BY
T. WOLD

CHECKED BY
M. MCGARVEY

COMM. NO. 0107197








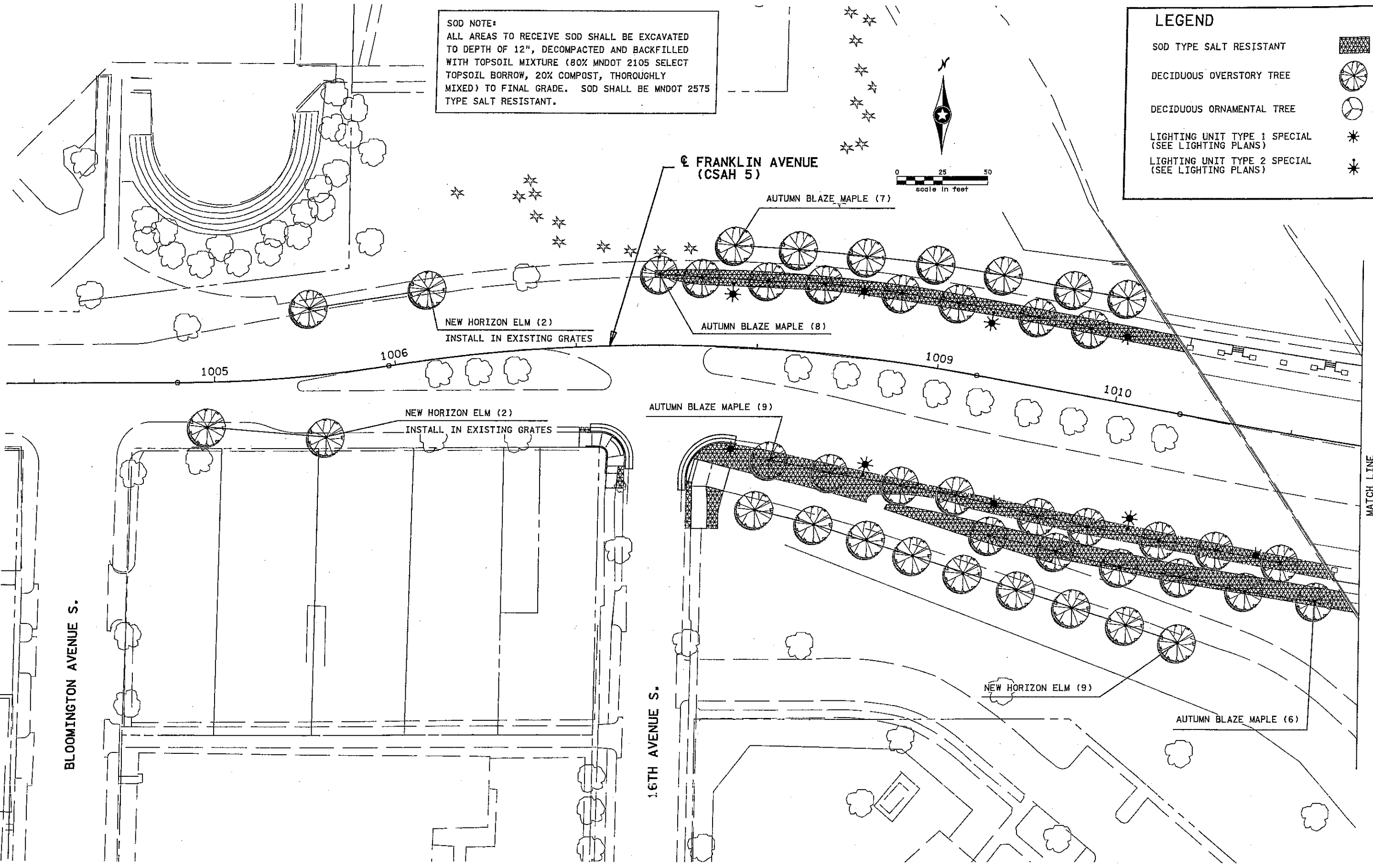
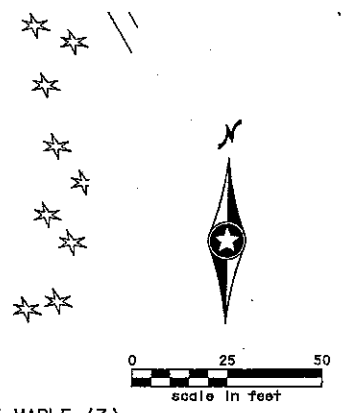
CITY OF MINNEAPOLIS
STREETSCAPE PLAN
FRANKLIN AVENUE STREETSCAPE

SHEET
30
OF
82

SOD NOTE:
 ALL AREAS TO RECEIVE SOD SHALL BE EXCAVATED TO DEPTH OF 12", DECOMPACTED AND BACKFILLED WITH TOPSOIL MIXTURE (80% MNDOT 2105 SELECT TOPSOIL BORROW, 20% COMPOST, THOROUGHLY MIXED) TO FINAL GRADE. SOD SHALL BE MNDOT 2575 TYPE SALT RESISTANT.

LEGEND

- SOD TYPE SALT RESISTANT 
- DECIDUOUS OVERSTORY TREE 
- DECIDUOUS ORNAMENTAL TREE 
- LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS) 
- LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS) 



MATCH LINE
SEE SHEET NO. 35

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NO	DATE	BY	CHKD	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 Landscape Architect under the laws of the State of Minnesota.

Print Name: **TIMOTHY B. WOLD**

Date: **2-25-11** License #: **42164**

STATE PROJECT NO.
141-020-107

CITY PROJECT NO.
60002998

DRAWN BY
T. WOLD

DESIGNED BY
T. WOLD

CHECKED BY
M. MCGARVEY

COMM. NO. 0107197








CITY OF MINNEAPOLIS

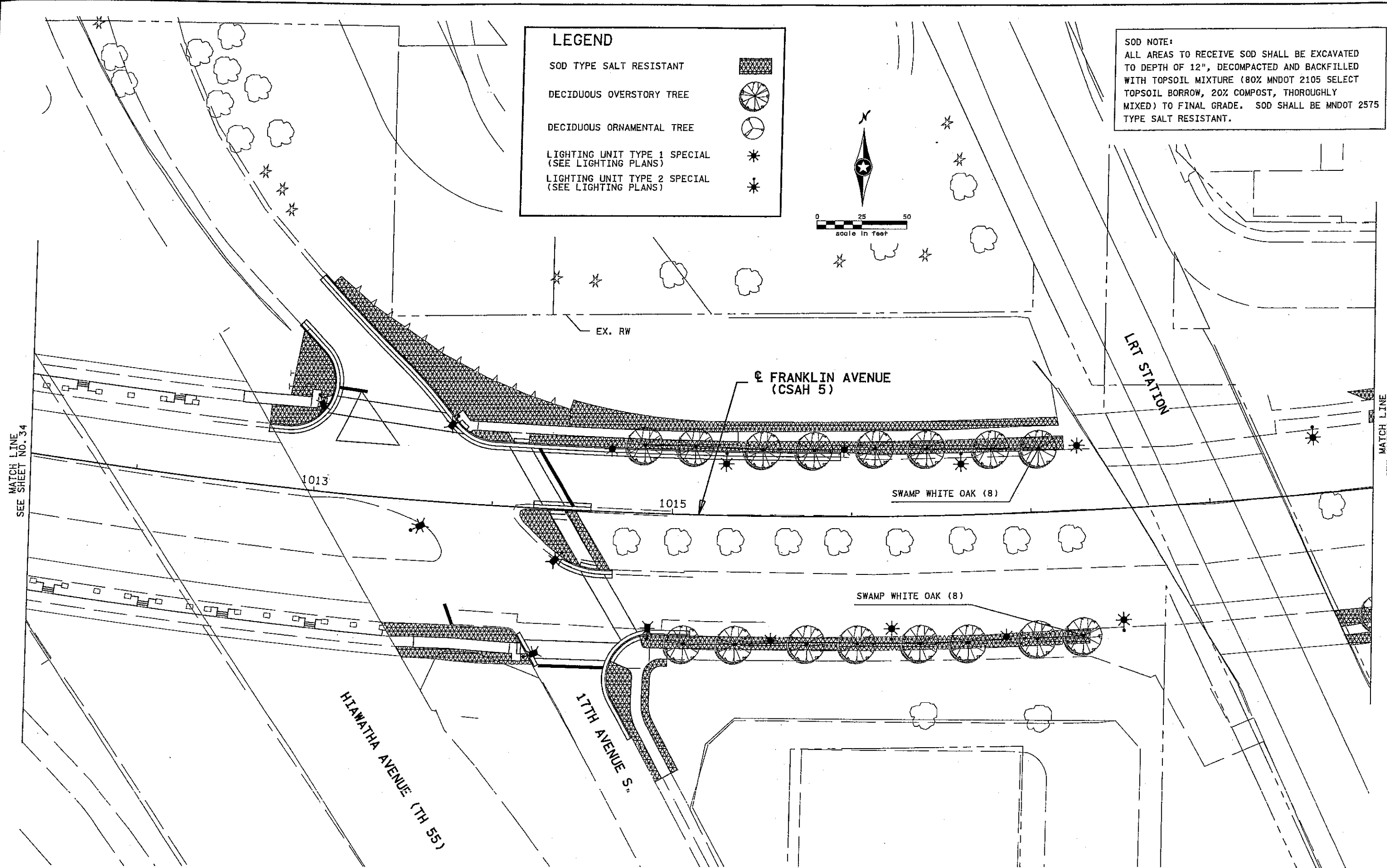
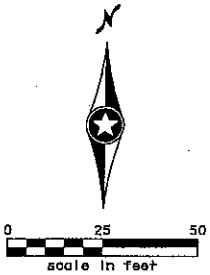
LANDSCAPE & TURF ESTABLISHMENT PLAN
FRANKLIN AVENUE STREETSCAPE

SHEET
34
OF
82

LEGEND

- SOD TYPE SALT RESISTANT 
- DECIDUOUS OVERSTORY TREE 
- DECIDUOUS ORNAMENTAL TREE 
- LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS) 
- LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS) 

SOD NOTE:
 ALL AREAS TO RECEIVE SOD SHALL BE EXCAVATED TO DEPTH OF 12", DECOMPACTED AND BACKFILLED WITH TOPSOIL MIXTURE (80% MNDOT 2105 SELECT TOPSOIL BORROW, 20% COMPOST, THOROUGHLY MIXED) TO FINAL GRADE. SOD SHALL BE MNDOT 2575 TYPE SALT RESISTANT.



MATCH LINE SEE SHEET NO. 34

MATCH LINE SEE SHEET NO. 36

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NO	DATE	BY	CHKD	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 Landscape Architect under the laws of the State of Minnesota.
 Print Name: TIMOTHY B. WOLD
 Date: 2-25-11 License # 42164

STATE PROJECT NO. 141-020-107
 CITY PROJECT NO. 6002998

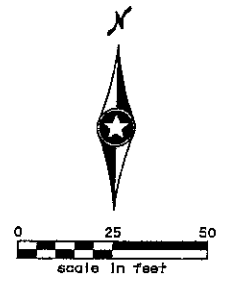
DRAWN BY T. WOLD
 DESIGNED BY T. WOLD
 CHECKED BY M. MCGARVEY
 COMM. NO. 0107197



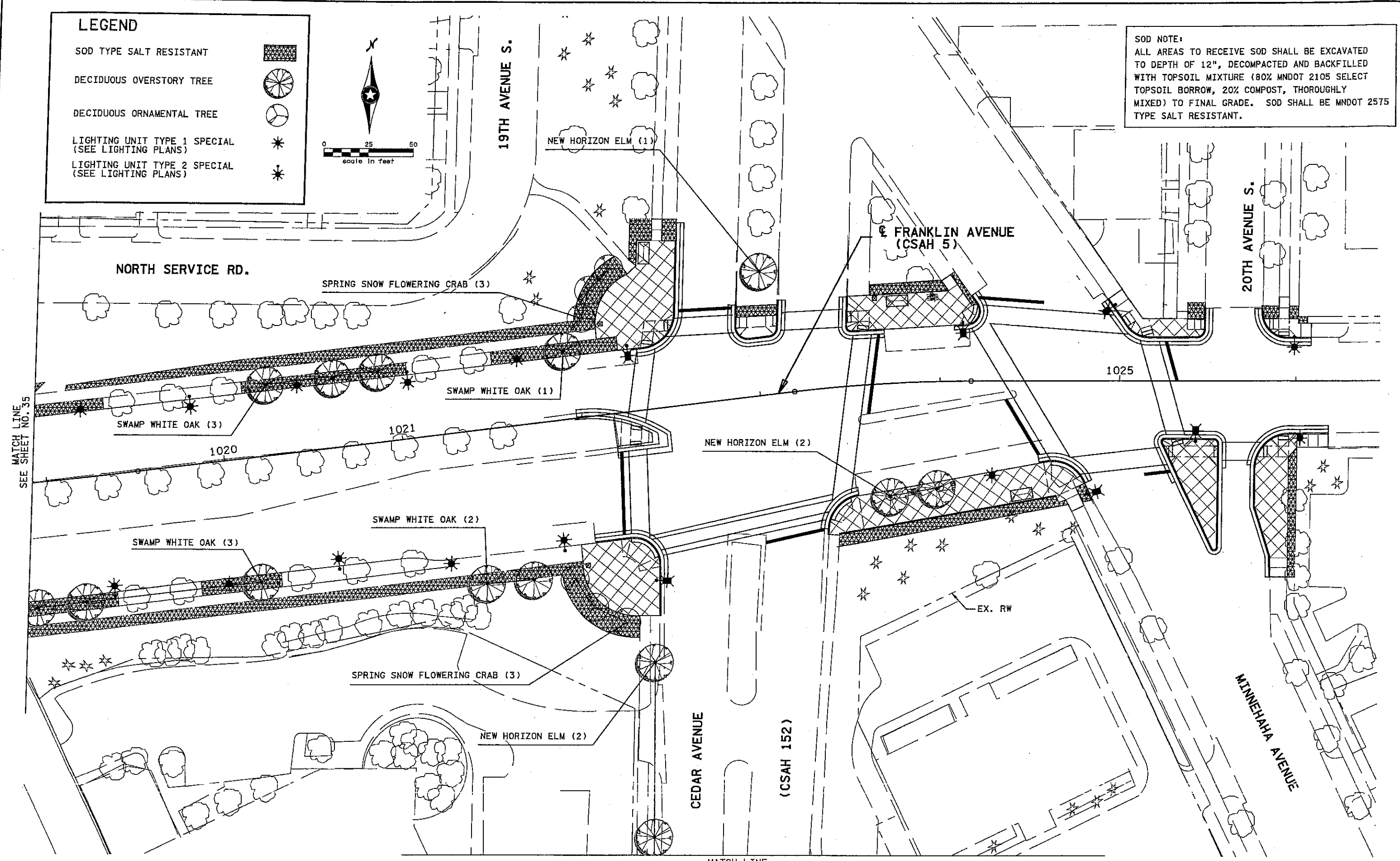
CITY OF MINNEAPOLIS
 LANDSCAPE & TURF ESTABLISHMENT PLAN
 FRANKLIN AVENUE STREETSCAPE

SHEET 35 OF 82

LEGEND	
SOD TYPE SALT RESISTANT	
DECIDUOUS OVERSTORY TREE	
DECIDUOUS ORNAMENTAL TREE	
LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS)	
LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS)	



SOD NOTE:
 ALL AREAS TO RECEIVE SOD SHALL BE EXCAVATED TO DEPTH OF 12", DECOMPACTED AND BACKFILLED WITH TOPSOIL MIXTURE (80% MNDOT 2105 SELECT TOPSOIL BORROW, 20% COMPOST, THOROUGHLY MIXED) TO FINAL GRADE. SOD SHALL BE MNDOT 2575 TYPE SALT RESISTANT.



MATCH LINE SEE SHEET NO. 35

MATCH LINE SEE SHEET NO. 37

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NO	DATE	BY	CHKD	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 Landscape Architect under the laws of the State of Minnesota.
 Print Name: **TIMOTHY B. WOLD**
[Signature]
 Date: **2-25-11** License #: **42164**

STATE PROJECT NO. 141-020-107
 CITY PROJECT NO. 60002998






DRAWN BY T. WOLD
 DESIGNED BY T. WOLD
 CHECKED BY M. MCGARVEY
 COMM. NO. 0107197

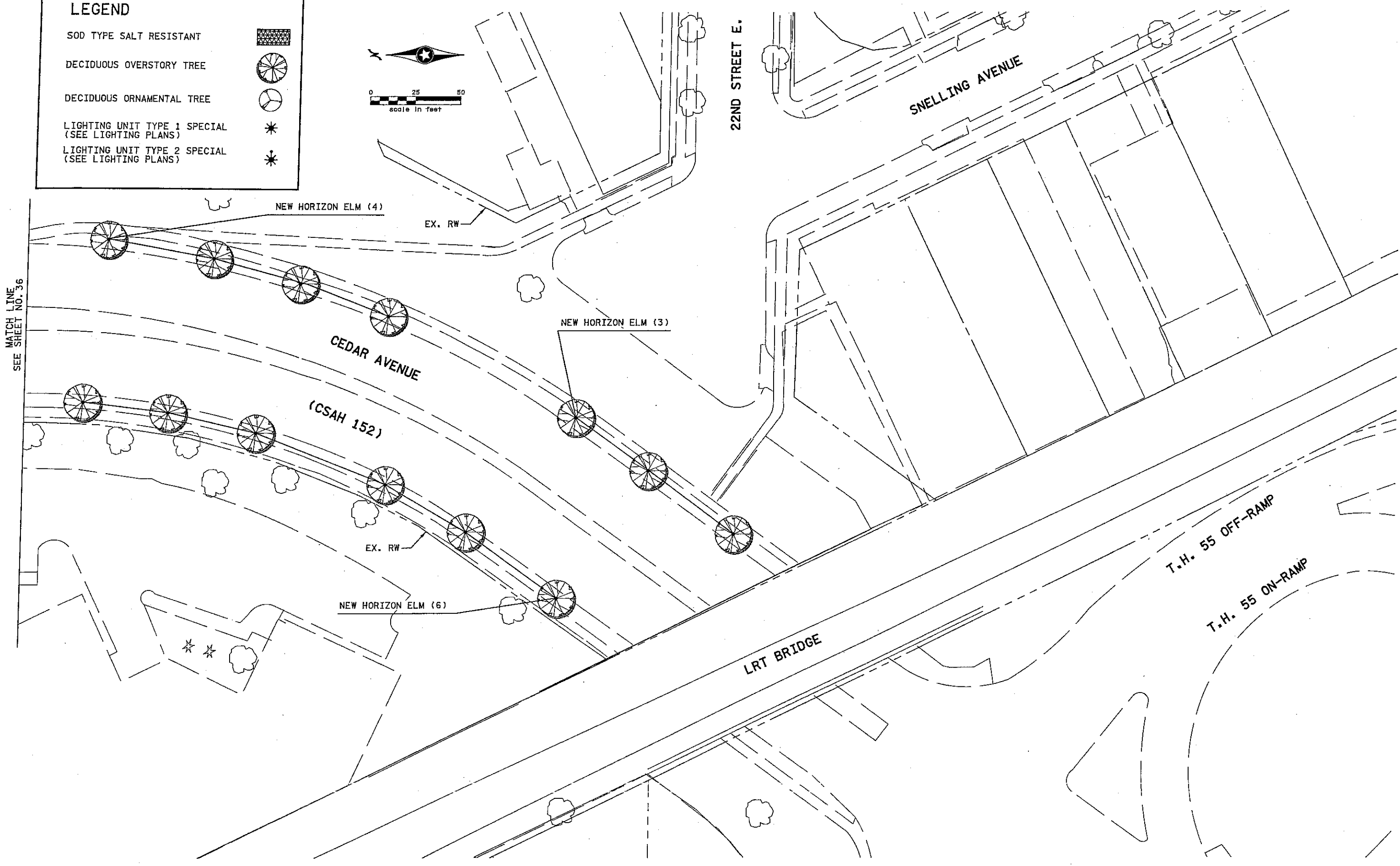
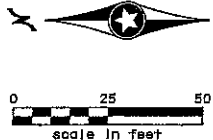


CITY OF MINNEAPOLIS
 LANDSCAPE & TURF ESTABLISHMENT PLAN
 FRANKLIN AVENUE STREETSCAPE

SHEET
 36
 OF
 82

LEGEND

- SOD TYPE SALT RESISTANT 
- DECIDUOUS OVERSTORY TREE 
- DECIDUOUS ORNAMENTAL TREE 
- LIGHTING UNIT TYPE 1 SPECIAL (SEE LIGHTING PLANS) 
- LIGHTING UNIT TYPE 2 SPECIAL (SEE LIGHTING PLANS) 



11/21/28 PU
 2/25/2011
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 CITY PROJECT NO. 6002998

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 CHECKED BY M. MCGARVEY
 COMM. NO. 0107197



CITY OF MINNEAPOLIS
 LANDSCAPE & TURF ESTABLISHMENT PLAN
 FRANKLIN AVENUE STREETScape

SHEET 37 OF 82

LIGHTING TABULATION				
NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL
	2104.509	REMOVE LIGHTING UNIT	EACH	8
	2104.509	REMOVE LUMINAIRE	EACH	28
	2104.509	REMOVE LIGHT BASE FOUNDATION	EACH	8
	2104.523	SALVAGE UNDERPASS LIGHT	EACH	4
	2545.511	LIGHTING UNIT TYPE SPECIAL 1	EACH	25
	2545.511	LIGHTING UNIT TYPE SPECIAL 2	EACH	16
1	2545.513	LUMINAIRE	EACH	14
	2545.514	UNDERPASS LIGHTING FIXTURE TYPE L	EACH	28
	2545.515	LIGHT BASE DESIGN M	EACH	41
	2545.521	0.75" RIGID STEEL CONDUIT	LIN FT	464
	2545.521	1" RIGID STEEL CONDUIT	LIN FT	501
	2545.521	2" RIGID STEEL CONDUIT	LIN FT	60
	2545.523	2" NON-METALLIC CONDUIT	LIN FT	2988
	2545.523	2" NON-METALLIC COND (DIRECTIONAL BORE)	LIN FT	979
	2545.523	3" NON-METALLIC CONDUIT	LIN FT	136
	2545.531	UNDERGROUND WIRE 1 COND NO 2	LIN FT	610
	2545.531	UNDERGROUND WIRE 1 COND NO 4	LIN FT	15171
	2545.531	UNDERGROUND WIRE 1 COND NO 8	LIN FT	5057
	2545.531	UNDERGROUND WIRE 1 COND NO 10	LIN FT	3793
	2545.541	SERVICE CABINET SECONDARY TYPE M	EACH	2
	2545.545	EQUIPMENT PAD M	EACH	2
	2545.553	HANDHOLE	EACH	8
	2545.602	TERMINATE BUS SHELTER	EACH	3
	2545.602	INSTALL UNDERPASS LIGHT FIXTURE	EACH	4

1. Luminaire consists of 10 Luminaires with 150W lamps and 4 luminaires with 250W lamps.

LEGEND	
	PROPOSED LIGHTING UNIT TYPE SPECIAL 1
	PROPOSED LIGHTING UNIT TYPE SPECIAL 2
	EXISTING LIGHTING UNIT
	LUMINAIRE (150 WATTS)
	LUMINAIRE (250 WATTS)
	PROPOSED UNDERPASS LIGHTING FIXTURE TYPE L
	INSTALL UNDERPASS LIGHTING FIXTURE
	EXISTING UNDERPASS LIGHT FIXTURE
	PROPOSED CONDUIT
	EXISTING CONDUIT
	PROPOSED HANDHOLE
	EXISTING HANDHOLE OR F & I BY SIGNALS
	PROPOSED JUNCTION BOX
	EXISTING JUNCTION BOX
	PROPOSED SERVICE CABINET
	EXISTING SERVICE CABINET
	EXISTING POLE MOUNTED SOURCE OF POWER
	EXISTING POLE MOUNTED FEED POINT
	BUS SHELTER

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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.
 Print Name: BRIAN D. HOLT
Brian D. Holt
 Date: 1/28/11 License #: 21428

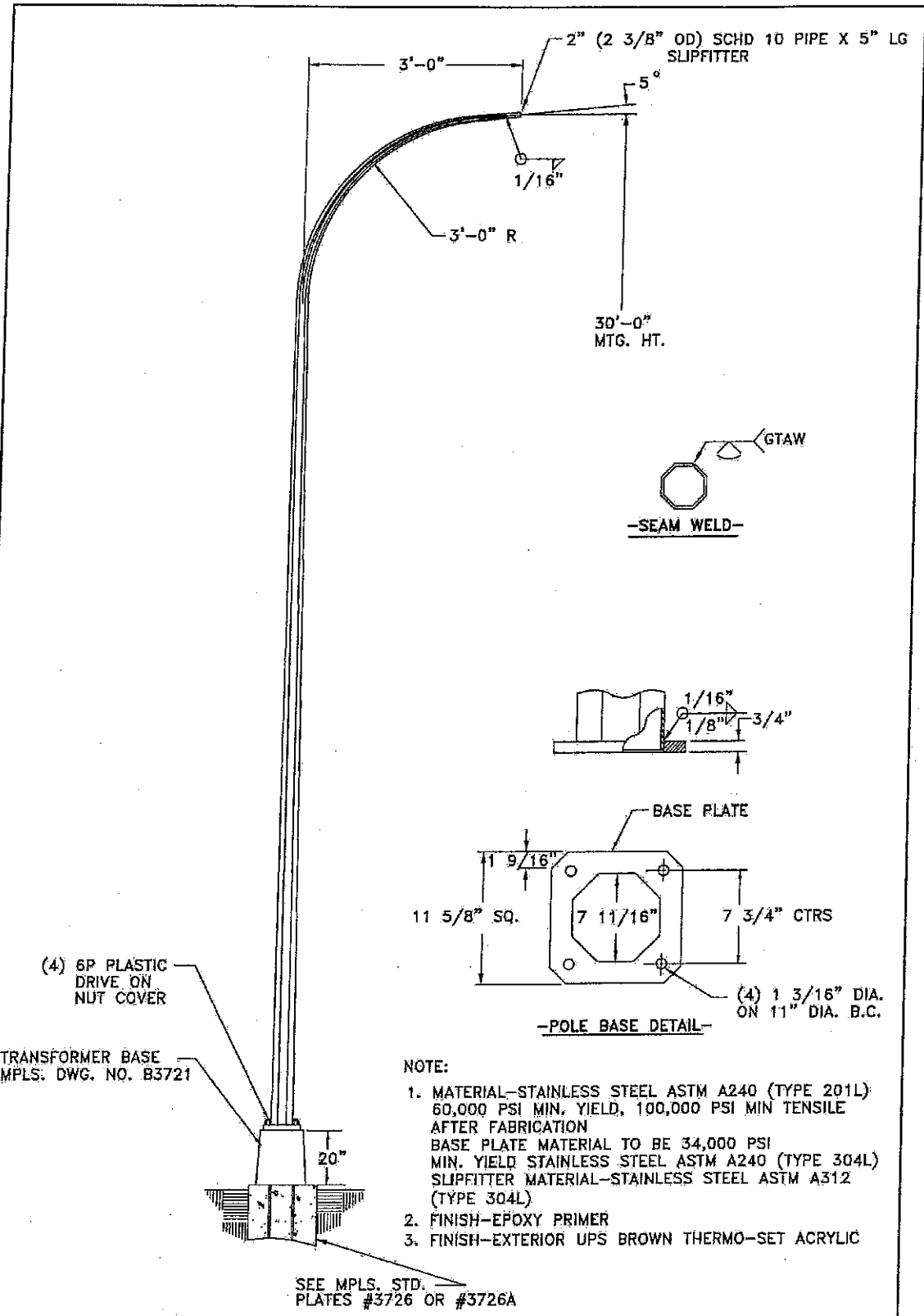
STATE PROJECT NO. 141-020-107
 CITY PROJECT NO. 500D2998

DRAWN BY H. FLEITMAN
 DESIGNED BY J. KRUSE
 CHECKED BY B. HOLT
 COMM. NO. 0107197



CITY OF MINNEAPOLIS
 LIGHTING PLANS AND DETAILS
 FRANKLIN AVENUE STREETScape
 LIGHTING LEGEND AND TABULATION

SHEET 40 OF 82



NOTE:

1. MATERIAL—STAINLESS STEEL ASTM A240 (TYPE 201L) 60,000 PSI MIN. YIELD, 100,000 PSI MIN TENSILE AFTER FABRICATION
BASE PLATE MATERIAL TO BE 34,000 PSI MIN. YIELD STAINLESS STEEL ASTM A240 (TYPE 304L)
SLIPFITTER MATERIAL—STAINLESS STEEL ASTM A312 (TYPE 304L)
2. FINISH—EPOXY PRIMER
3. FINISH—EXTERIOR UPS BROWN THERMO-SET ACRYLIC

LIGHTING UNIT TYPE SPECIAL 2
SEE SPECIAL PROVISION FOR LUMINAIRE DETAILS

REVISED 01-12-07	CITY OF MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS TRAFFIC & PARKING SERVICES DIVISION	NO SCALE
APPROVED 08/15/03	LIGHT STANDARD TYPE 3M-30	STANDARD PLATE NO. 3786S

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Brian D. Holt
 Date: 11/28/11 License #: 21428

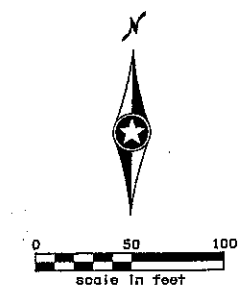
STATE PROJECT NO.
141-020-107
CITY PROJECT NO.
60002998

DRAWN BY
H. FLEITMAN
DESIGNED BY
J. KRUSE
CHECKED BY
B. HOLT
COMM. NO. 0107197



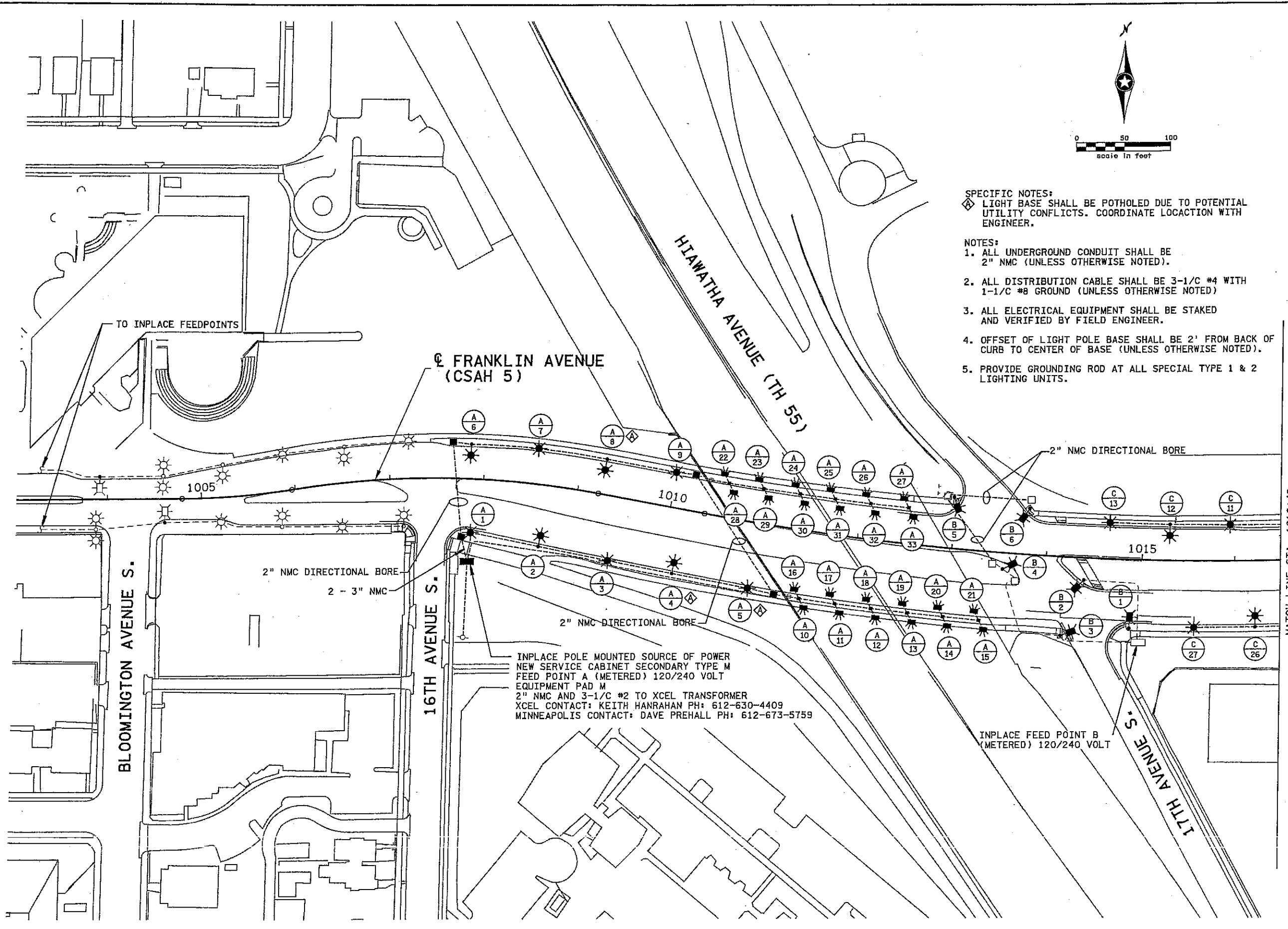
CITY OF MINNEAPOLIS
LIGHTING PLANS AND DETAILS
FRANKLIN AVENUE STREETSCAPE
LIGHTING DETAILS

SHEET
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OF
82



SPECIFIC NOTES:
 ⬠ LIGHT BASE SHALL BE POTHOLED DUE TO POTENTIAL UTILITY CONFLICTS. COORDINATE LOCATION WITH ENGINEER.

- NOTES:**
1. ALL UNDERGROUND CONDUIT SHALL BE 2" NMC (UNLESS OTHERWISE NOTED).
 2. ALL DISTRIBUTION CABLE SHALL BE 3-1/C #4 WITH 1-1/C #8 GROUND (UNLESS OTHERWISE NOTED)
 3. ALL ELECTRICAL EQUIPMENT SHALL BE STAKED AND VERIFIED BY FIELD ENGINEER.
 4. OFFSET OF LIGHT POLE BASE SHALL BE 2' FROM BACK OF CURB TO CENTER OF BASE (UNLESS OTHERWISE NOTED).
 5. PROVIDE GROUNDING ROD AT ALL SPECIAL TYPE 1 & 2 LIGHTING UNITS.



TO INPLACE FEEDPOINTS

FRANKLIN AVENUE (CSAH 5)

HIAWATHA AVENUE (TH 55)

BLOOMINGTON AVENUE S.

16TH AVENUE S.

17TH AVENUE S.

2" NMC DIRECTIONAL BORE
2 - 3" NMC

2" NMC DIRECTIONAL BORE

2" NMC DIRECTIONAL BORE

INPLACE POLE MOUNTED SOURCE OF POWER
 NEW SERVICE CABINET SECONDARY TYPE M
 FEED POINT A (METERED) 120/240 VOLT
 EQUIPMENT PAD M
 2" NMC AND 3-1/C #2 TO XCEL TRANSFORMER
 XCEL CONTACT: KEITH HANRAHAN PH: 612-630-4409
 MINNEAPOLIS CONTACT: DAVE PREHALL PH: 612-673-5759

INPLACE FEED POINT B
 (METERED) 120/240 VOLT

MATCH LINE STA. 1016+48
 SEE SHEET NO. 54

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 Print Name: **BRIAN D. HOLT**
Brian D. Holt
 Date: **2/25/11** License # **21428**

STATE PROJECT NO.
141-020-107
 CITY PROJECT NO.
600D2998

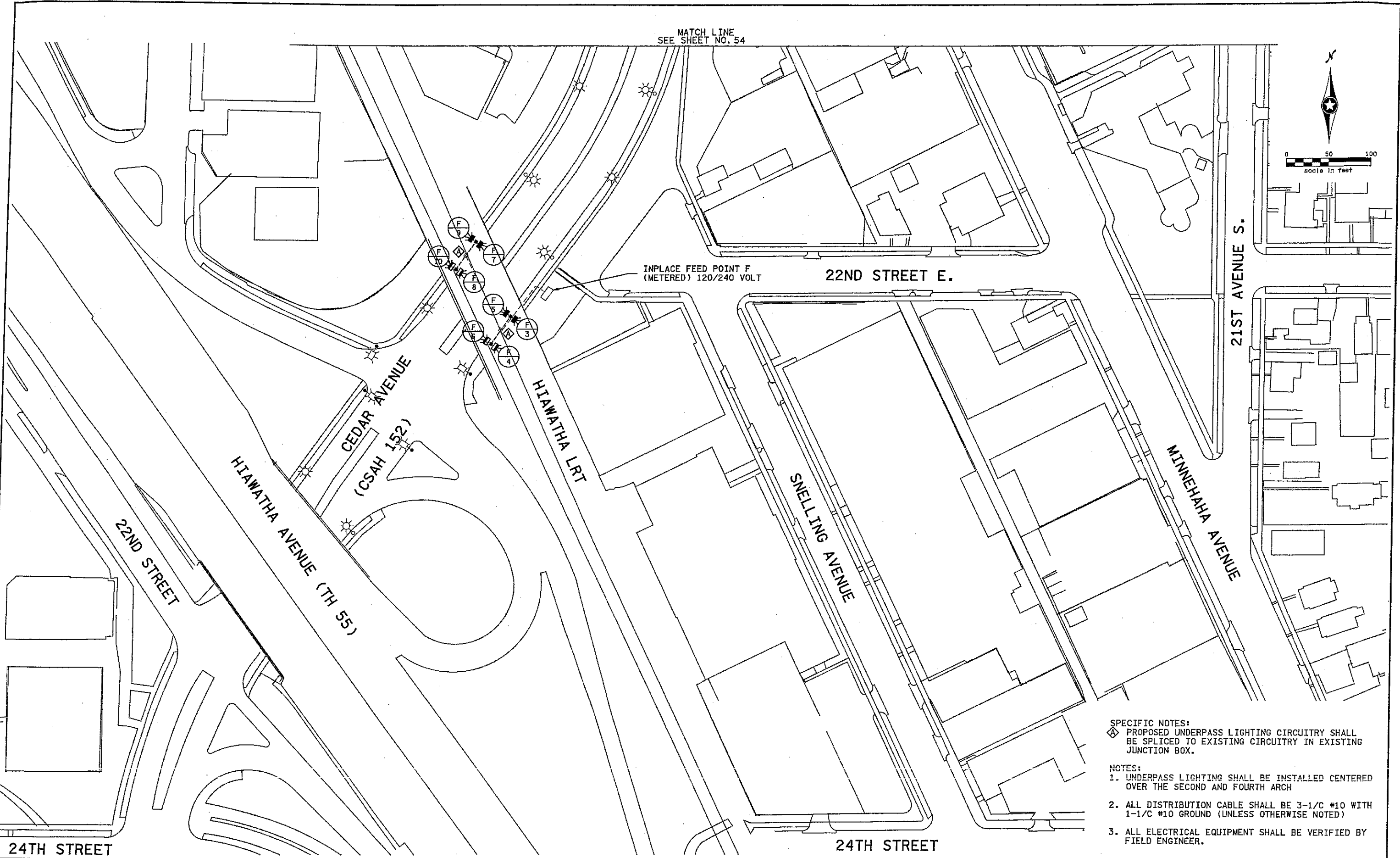
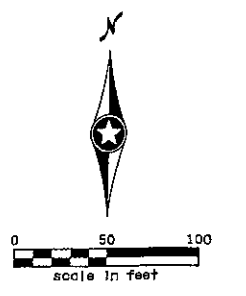
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H. FLEITMAN
 DESIGNED BY
J. KRUSE
 CHECKED BY
B. HOLT
 COMM. NO. 0107197



CITY OF MINNEAPOLIS
 LIGHTING PLANS AND DETAILS
 FRANKLIN AVENUE STREETScape
 LIGHTING LAYOUT

SHEET
53
OF
82

MATCH LINE
SEE SHEET NO. 54



- SPECIFIC NOTES:**
- ▣ PROPOSED UNDERPASS LIGHTING CIRCUITRY SHALL BE SPliced TO EXISTING CIRCUITRY IN EXISTING JUNCTION BOX.
- NOTES:**
1. UNDERPASS LIGHTING SHALL BE INSTALLED CENTERED OVER THE SECOND AND FOURTH ARCH
 2. ALL DISTRIBUTION CABLE SHALL BE 3-1/2" #10 WITH 1-1/2" #10 GROUND (UNLESS OTHERWISE NOTED)
 3. ALL ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY FIELD ENGINEER.

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NO	DATE	BY	CKD	APPR	REVISION

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Print Name: **BRIAN D. HOLT**

Brian D. Holt

Date: **2/25/11** License # **21428**

STATE PROJECT NO.
141-020-107

CITY PROJECT NO.
60002988

DRAWN BY
H. FLEITMAN

DESIGNED BY
J. KRUSE

CHECKED BY
B. HOLT

COMM. NO. Q107197



CITY OF MINNEAPOLIS

LIGHTING PLANS AND DETAILS
FRANKLIN AVENUE STREETSCAPE
LIGHTING LAYOUT

SHEET
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OF
82

FEED POINT A					
NO.	STATION	L	R	LOCATION	LIGHT TYPE
1	1007+90		X	FRANKLIN AVENUE	TYPE 1
2	1008+68		X	FRANKLIN AVENUE	TYPE 2
3	1009+45		X	FRANKLIN AVENUE	TYPE 1
4	1010+15		X	FRANKLIN AVENUE	TYPE 2
5	1010+95		X	FRANKLIN AVENUE	TYPE 1
6	1007+85	X		FRANKLIN AVENUE	TYPE 2
7	1008+54	X		FRANKLIN AVENUE	TYPE 1
8	1009+24	X		FRANKLIN AVENUE	TYPE 2
9	1009+99	X		FRANKLIN AVENUE	TYPE 1
10	NOTE 1		X	FRANKLIN AVENUE	TYPE L
11	NOTE 1		X	FRANKLIN AVENUE	TYPE L
12	NOTE 1		X	FRANKLIN AVENUE	TYPE L
13	NOTE 1		X	FRANKLIN AVENUE	TYPE L
14	NOTE 1		X	FRANKLIN AVENUE	TYPE L
15	NOTE 1		X	FRANKLIN AVENUE	TYPE L
16	NOTE 1		X	FRANKLIN AVENUE	TYPE L
17	NOTE 1		X	FRANKLIN AVENUE	TYPE L
18	NOTE 1		X	FRANKLIN AVENUE	TYPE L
19	NOTE 1		X	FRANKLIN AVENUE	TYPE L
20	NOTE 1		X	FRANKLIN AVENUE	TYPE L
21	NOTE 1		X	FRANKLIN AVENUE	TYPE L
22	NOTE 1	X		FRANKLIN AVENUE	TYPE L
23	NOTE 1	X		FRANKLIN AVENUE	TYPE L
24	NOTE 1	X		FRANKLIN AVENUE	TYPE L
25	NOTE 1	X		FRANKLIN AVENUE	TYPE L
26	NOTE 1	X		FRANKLIN AVENUE	TYPE L
27	NOTE 1	X		FRANKLIN AVENUE	TYPE L
28	NOTE 1	X		FRANKLIN AVENUE	TYPE L
29	NOTE 1	X		FRANKLIN AVENUE	TYPE L
30	NOTE 1	X		FRANKLIN AVENUE	TYPE L
31	NOTE 1	X		FRANKLIN AVENUE	TYPE L
32	NOTE 1	X		FRANKLIN AVENUE	TYPE L
33	NOTE 1	X		FRANKLIN AVENUE	TYPE L

NOTES:
 1. SPACE EQUAL DISTANCE BETWEEN BEAMS AND UNIFORMLY TO ARCH.
 FIELD VERIFY WITH ENGINEER PRIOR TO INSTALLATION.

FEED POINT C					
NO.	STATION	L	R	LOCATION	LIGHT TYPE
1	1021+67	X		FRANKLIN AVENUE	TYPE 1
2	1021+06	X		FRANKLIN AVENUE	TYPE 2
3	1020+45	X		FRANKLIN AVENUE	TYPE 1
4	1019+84	X		FRANKLIN AVENUE	TYPE 2
5	1019+22	X		FRANKLIN AVENUE	TYPE 1
6	1018+61	X		FRANKLIN AVENUE	TYPE 2
9	1017+17	X		FRANKLIN AVENUE	TYPE 1
10	1016+57	X		FRANKLIN AVENUE	TYPE 2
11	1015+95	X		FRANKLIN AVENUE	TYPE 1
12	1015+30	X		FRANKLIN AVENUE	TYPE 2
13	1014+64	X		FRANKLIN AVENUE	TYPE 1
16	1021+80		X	FRANKLIN AVENUE	TYPE 2
17	1021+17		X	FRANKLIN AVENUE	TYPE 1
18	1020+58		X	FRANKLIN AVENUE	TYPE 2
19	1019+96		X	FRANKLIN AVENUE	TYPE 1
20	1019+32		X	FRANKLIN AVENUE	TYPE 2
21	1018+72		X	FRANKLIN AVENUE	TYPE 1
24	1017+41		X	FRANKLIN AVENUE	TYPE 2
25	1016+85		X	FRANKLIN AVENUE	TYPE 1
26	1016+22		X	FRANKLIN AVENUE	TYPE 2
27	1015+57		X	FRANKLIN AVENUE	TYPE 1
30	1024+30		X	FRANKLIN AVENUE	TYPE 1
31	1026+03		X	FRANKLIN AVENUE	TYPE 1
32	1026+80		X	FRANKLIN AVENUE	TYPE 2
33	1027+83		X	FRANKLIN AVENUE	TYPE 1
34	1028+60		X	FRANKLIN AVENUE	TYPE 1
35	1029+36		X	FRANKLIN AVENUE	TYPE 1
36	1025+99	X		FRANKLIN AVENUE	TYPE 2
37	1027+04	X		FRANKLIN AVENUE	TYPE 1
38	1027+74	X		FRANKLIN AVENUE	TYPE 1
39	1028+60	X		FRANKLIN AVENUE	TYPE 1
40	1029+40	X		FRANKLIN AVENUE	TYPE 1
41	SIGNAL POLE	X		FRANKLIN AVENUE	LUMINAIRE

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CITY OF MINNEAPOLIS
 LIGHTING PLANS AND DETAILS
 FRANKLIN AVENUE STREETSCAPE
 STATIONING TABLES

SHEET
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OF
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