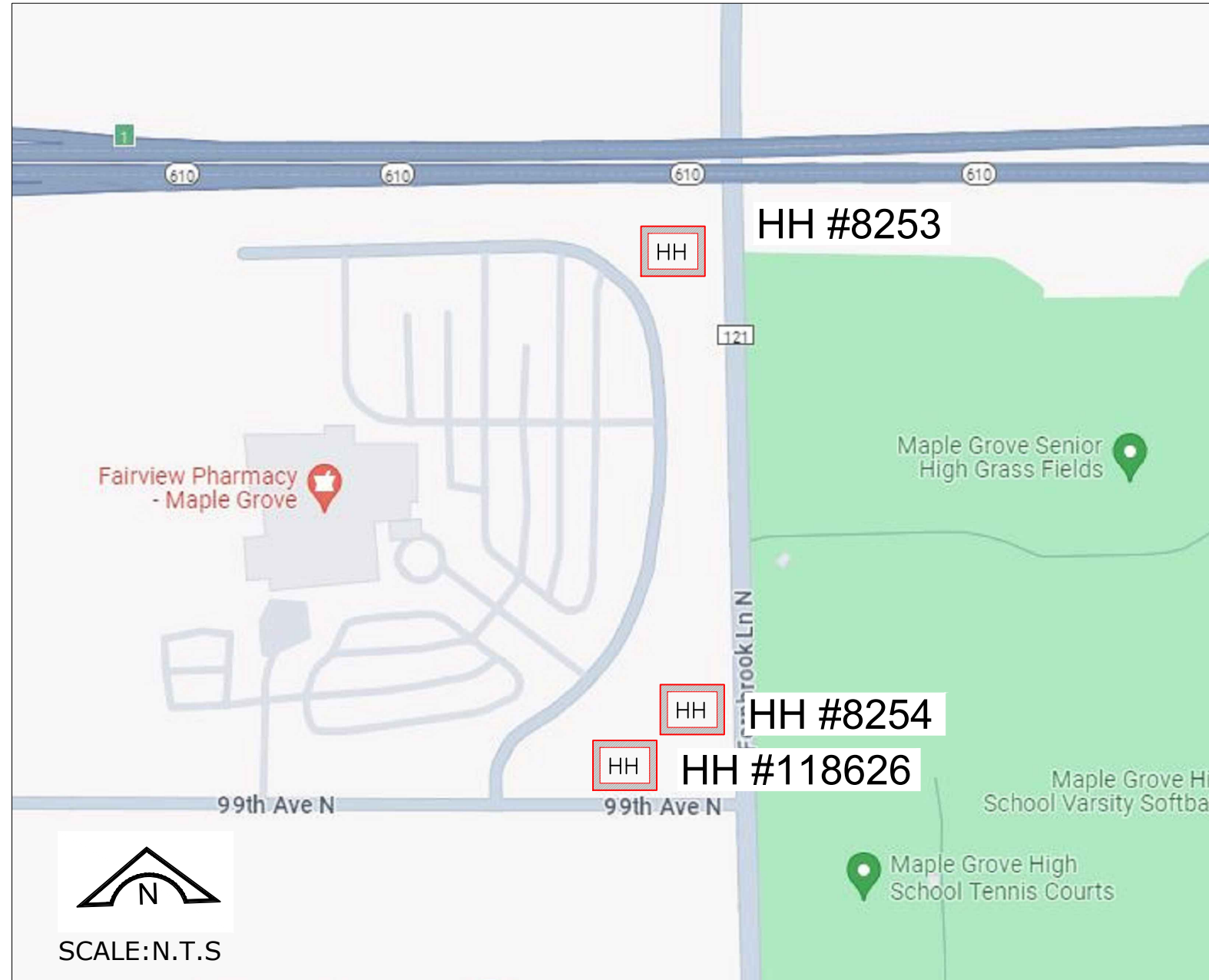


WORK LOCATIONS



VICINITY MAP

TRAFFIC CONTROL PLAN

PROJECT ID: P.217916
WC CLLI: MPGVMNXA
DATE: 05/28/24
SCOPE: HH ACCESS



LUMEN ENGINEER: KERRI WALDERA- DEROSA
DRAWN BY: PEARCE SERVICES/ NITIN DHIMAN
PHONE: (970) - 456 - 3195

SHEET: 01 OF 4 **ISSUE:** 00



ADDRESS: 14500 99TH AVE. N,
MAPLE GROVE MN ,55369
CITY: SAINT PAUL
TOWNSHIP: S9-T119N-R22W

GENERAL TRAFFIC CONTROL NOTES:

- 1)THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.
- 2)FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER.
- 3) ALL DISTANCE ARE APPROXIMATE.
- 4)THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MNMUTCD.
- 4)AN ANNUAL FALL REVIEW OF ALL TRAFFIC CONTROLS WILL BE MADE TO PREPARE FOR WINTER MAINTENANCE OF THE PROJECT. THIS MAY INCLUDE ADJUSTMENTS OR EXCHANGE OF ONE TRAFFIC CONTROL DEVICE FOR ANOTHER. TO BE APPROVED BY THE ENGINEER. READJUSTMENTS MAY AGAIN BE REQUIRED IN THE SPRING.
- 5)IF THE CONTRACTOR DECIDES TO PERFORM THE CONSTRUCTION WORK IN A SEQUENCE OTHER THAN SHOWN IN THIS TRAFFIC CONTROL PLAN THE CONTRACTOR SHALL PROVIDE COMPLETE REVISED TRAFFIC CONTROL PLANS TO BE APPROVED BY THE ENGINEER.

Decision Sight Distance (D)	
Posted Speed (mph)	Decision Sight Distance (feet)
0 - 30	550
35 - 40	700
45 - 50	900
55	1200
60 - 65	1400
70 - 75	1600

-TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONE-

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5 L
SHOULDER TAPER	AT LEAST 0.33 L
ONE LANE, TWO-WAY TRAFFIC TAPER	50FT MINIMUM, 100FT MAXIMUM
DOWNSTREAM TAPER	50FT MINIMUM, 100FT MAXIMUM

-FORMULAS FOR DETERMINING TAPER LENGTH-

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L= TAPER LENGTH IN METERS (FEET)
W= WIDTH OF OFFSET IN METERS (FEET)
S= POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN KM/H (MPH)

Posted Speed Limit Prior to Work Starting (mph)	Advance Warning Sign Spacing (A) feet	Decision Sight Distance (D) feet	Taper Length (12 ft lane) (L) feet	Shifting Taper (12 ft lane) (L/2) feet	Typical Shoulder Taper (L/3) feet	Buffer Space (B) feet
0-30	G = 25 ft.	100	200	100	75	200
35-40		325	325	175	125	305
45-50	G = 50 ft.	600	600	300	200	425
55		750	700	350	250	500
60-65		1000	800	400	275	650
70-75		1200	900	450	300	820

CLEARANCE ZONE

Speed (mph)	Width (ft)
60 or greater	30
45-55	20
40	15
35 or less	10

- Flagger or Operator of Automated Flagging Assistance Device
- AFAD Automated Flagging Assistance Device (AFAD)
- Flashing Arrow Board (FAB)
- Portable Changeable Message Sign (PCMS)
- Portable Equipment - Includes testing devices, detection, surveying, etc.
- Portable Traffic Signal
- 360-Degree Yellow Flashing Vehicle Light(s)
- Work Vehicle
- Work Vehicle with Crash Attenuator (Truck or Trailer Mounted)
- Motor Grader
- Mower
- Type III Barricade
- Traffic Control Sign
- Type A Flashing Warning Light
- Channelizing Device
- Direction of Traffic
- See Note (i.e. See Note 6)
- Work Space

TRAFFIC CONTROL PLAN

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DATE: 05/28/24
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LUMEN ENGINEER: KERRI WALDERA- DEROSA
DRAWN BY:PEARCE SERVICES/ NITIN DHIMAN

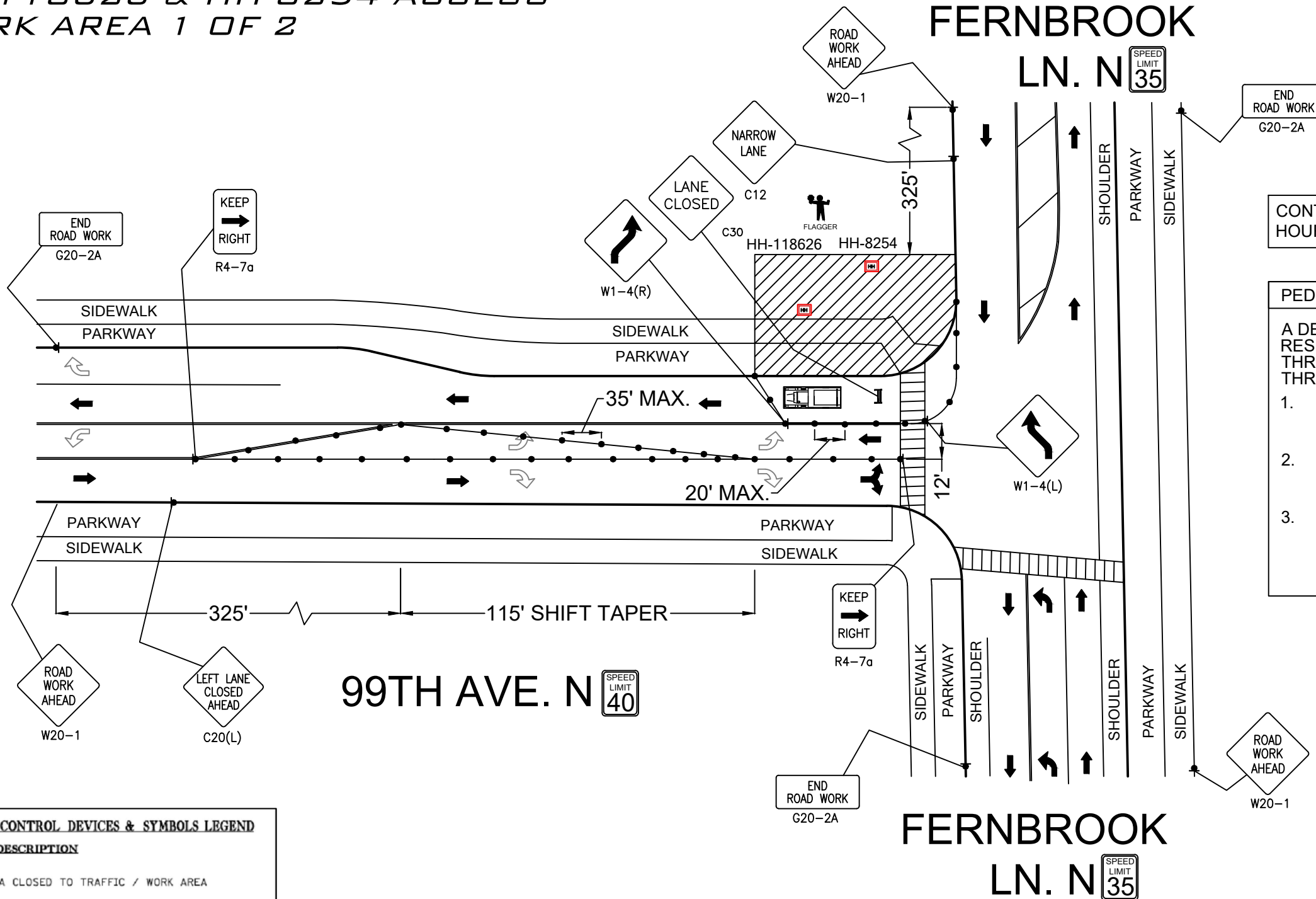
PHONE: (970) - 456 - 3195
SHEET: 02 OF 4

ISSUE: 00



ADDRESS:14500 99TH AVE. N,
MAPLE GROVE MN ,55369
CITY:SAINT PAUL
TOWNSHIP: S9-T119N-R22W

14500 99TH AVE. N
 99TH AVE. N & FERNBROOK LN. N
 HH-118626 & HH-8254 ACCESS
 WORK AREA 1 OF 2



CONTACT PROPERTY OWNER(S) 72 HOURS PRIOR TO START OF WORK.

- PEDESTRIAN CONTROL NOTES:**
- A DEDICATED INDIVIDUAL WILL BE ASSIGNED THE RESPONSIBILITY OF ESCORTING PEDESTRIANS THROUGH THE WORK AREA IN ACCORDANCE WITH THREE MAJOR CONSIDERATIONS:
1. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH WORK SITE VEHICLES, EQUIPMENT OR OPERATIONS
 2. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH MAINLINE TRAFFIC MOVING THROUGH OR AROUND THE WORK SITE.
 3. PEDESTRIANS SHOULD BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS NEARLY AS PRACTICAL THE MOST DESIRABLE CHARACTERISTICS OF THE EXISTING SIDEWALK OR FOOTPATH

FLAGGER TO ASSIST PEDESTRIANS THROUGH WORK AREA (SEE PED NOTES)

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	AREA CLOSED TO TRAFFIC / WORK AREA
	TRAFFIC CONTROL SIGN
	TYPE III BARRICADE =
	DRUM-LIKE CHANNELIZER =
	TYPE A FLASHING WARNING LIGHT
	FLASHING ARROW BOARD TYPE C = (4' X 8' UNLESS OTHERWISE NOTED).
	SOLID LINE PAVEMENT MARKING WITH TEMPORARY RAISED PAVEMENT MARKERS AT 10' SPACES
	CONCRETE BARRIER WITH DELINEATORS AT 30' SPACES
	IMPACT ATTENUATOR
	PAVEMENT MESSAGE (LEFT ARROW) EPOXY



TRAFFIC CONTROL PLAN

PROJECT ID: P.217916
WC CLLI: MPGVMNXA
CITY: MAPLE GROVE
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PHONE: (970) - 456 - 3195

TOWNSHIP: S9-T119N-R22W
ISSUE: 00
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SHEET: 03 OF 04

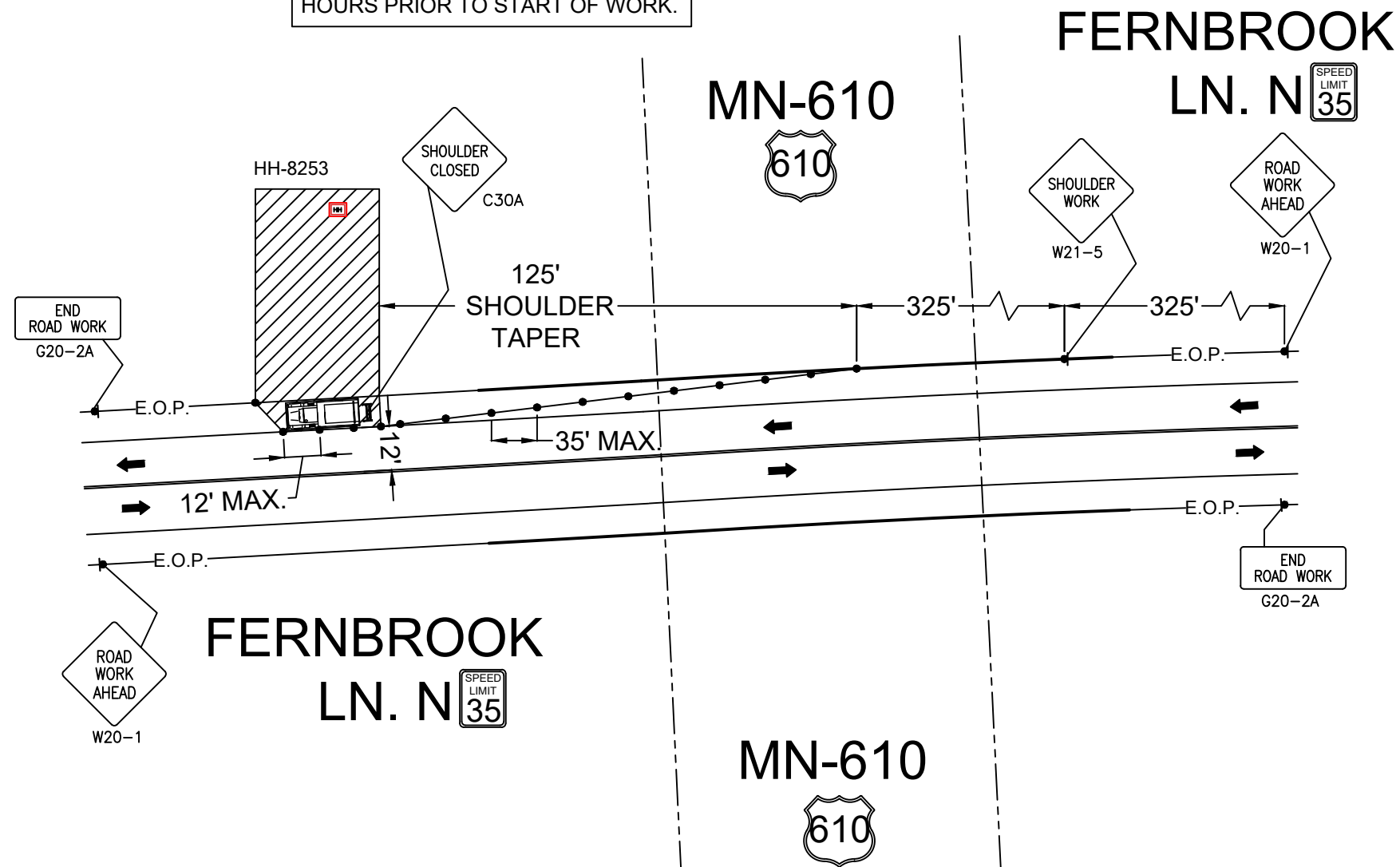
LUMEN

PEARCE SERVICES

10098 FERNBROOK LN. N
 99TH AVE. N & FERNBROOK LN. N
 HH-8253 ACCESS
 WORK AREA 2 OF 2

HH 8253 IS +/- 920' NORTH
 OF THE C/L OF 99TH AVE. N

CONTACT PROPERTY OWNER(S) 72
 HOURS PRIOR TO START OF WORK.

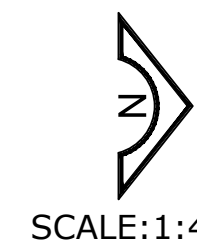


FERNBROOK
 LN. N SPEED
LIMIT
35

FERNBROOK
 LN. N SPEED
LIMIT
35

MN-610
610

MN-610
610



TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	AREA CLOSED TO TRAFFIC / WORK AREA
	TRAFFIC CONTROL SIGN
	TYPE III BARRICADE =
	DRUM-LIKE CHANNELIZER =
	TYPE A FLASHING WARNING LIGHT
	FLASHING ARROW BOARD TYPE C = (4' X 8' UNLESS OTHERWISE NOTED).
	SOLID LINE PAVEMENT MARKING WITH TEMPORARY RAISED PAVEMENT MARKERS AT 10' SPACES
	CONCRETE BARRIER WITH DELINEATORS AT 30' SPACES
	IMPACT ATTENUATOR
	PAVEMENT MESSAGE (LEFT ARROW) EPOXY

TRAFFIC CONTROL PLAN

PROJECT ID: P.217916
 WC CLLI: MPGVMNXA
 CITY: MAPLE GROVE
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LUMEN

TOWNSHIP: S9-T119N-R22W
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PEARCE
 SERVICES