THE COMMONWEALTH OF MASSACHUSETTS MASSDOT - HIGHWAY DIVISION

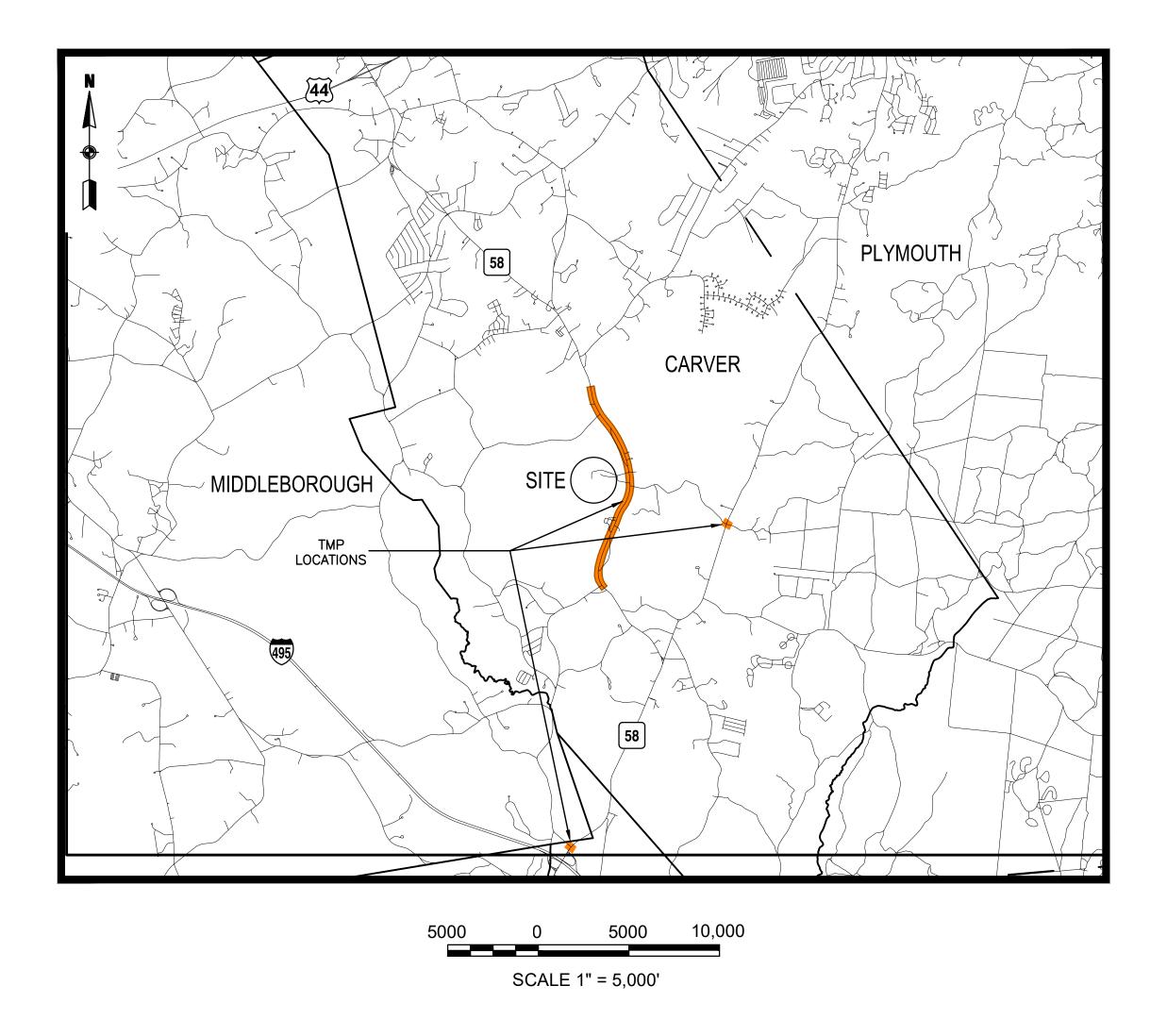
EVENT TEMPORARY TRAFFIC CONTROL PLANS FOR

MAIN STREET / SOUTH MAIN STREET (ROUTE 58) KING RICHARD'S FAIRE

IN THE TOWN OF

CARVER

	INDEX
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	GENERAL NOTES
3-4	TMP - PRE-EVENT FULL SETUP
5	TMP - PRE-EVENT SMALL SETUP
6	TMP - EGRESS SETUP



LENGTH OF PROJECT= 8,060.00 FEET= 1.52 MILES

JUNE 30, 2022

PROJECT TITLE

Route 58 Event Management Plans

Carver, Massachusetts

PREPARED FOR

King's Faire, Inc.

Minnetonka, Minnesota



35 N.E. BUSINESS CENTER DRIVE ANDOVER, MA 01810-1071 TEL: (978) 474-8800 www.rdva.com

DESIGNED BY	DAD
DRAWN BY	DAD/MPP
CHECKED BY	SMB
DATE	JUNE 2022
SCALE	AS NOTED

NO.	DESCRIPTION	DATE
1	REVISED TAPER	7/18/2

Title Sheet & Index

SHEET 1 OF 6	DRAWING NUMBER
JOB NO. 9243	1
CAD 9243DS	

TRAFFIC MANAGEMENT NOTES

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- 2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, WITH MASSACHUSETTS AMENDMENTS.
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO EVENT TRAFFIC DEMANDS.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- 5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE AASHTO 2009 OR 2016 "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- 6. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED AND APPROVED BY THE CARVER POLICE DEPARTMENT PRIOR TO POSTING.
- 7. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 8. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 9. MINIMUM LANE WIDTH IS TO BE 11 FEET. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF TRAFFIC CONES.
- 10. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- 11. THE TYPICAL STANDARDS (SHOWN TO THE RIGHT) ARE FOR TYPICAL CONSTRUCTION WORK ACTIVITIES. SIGN SPACING AND TRAFFIC DEVICE LOCATIONS MAY HAVE BEEN MODIFIED FROM THE TYPICAL STANDARDS TO ACCOMMODATE EXISTING FIELD CONDITIONS AND/OR OTHER REQUIREMENTS OF THE EVENT TRAFFIC CONTROL.

			TEM	1PORAR	Y SI	GN SUI	MMARY	,			
IDENTIFI-	SIZE (OF SIGN	TEVT	TEXT DI	MENSION	IS (INCH)		COLOR		POST TYPE &	AREA
CATION NUMBER	WIDTH	HEIGHT	TEXT		ERTICAL SPACING	RTE. MKR. ARROW	BACK- GROUND	LEGEND	BORDER	NUMBER PER SIGN	PER SIGN
R3-2	24"	24"	9	SEE	2009 M	JTCD	WHITE	RED/BLACK	BLACK	TEMPORARY STAND	4.00
R5-1	30"	30"	DO NOT ENTER				WHITE	RED	NONE	TEMPORARY STAND	6.25
R11-4	60"	30"	ROAD CLOSED TO THRU TRAFFIC				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	12.50
SP-1	42"	36"	AHEAD WRONG RT 58 RICHS WAY NB FAIRE				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	10.50
SP-2	42"	30"	WRONG RT 58 RICHS WAY NB FAIRE				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	8.75
SP-3	42"	36"	AHEAD KING J WRONG RICHS RT 58 WAY FAIRE NB				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	10.50
SP-4	42"	30"	WRONG RICHS RT 58 WAY FAIRE NB				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	8.75
SP-5	36"	36"	FORM SINGLE LANE				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	9.00
SP-6	36"	48"	EXIT EXIT TO RT 58 NORTH SOUTH				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	12.00
SP-7	36"	48"	EXIT EXIT TO RT 58 NORTH SOUTH				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	12.00
SP-8	36"	30"	EXIT -				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	7.50
SP-9	36"	30"	EXIT				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	7.50
W13-1	18"	18"	30 MPH				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	2.25
W23-2	36"	36"	NEW TRAFFIC PATTERN AHEAD				FLUOR- ESCENT ORANGE	BLACK	BLACK	TEMPORARY STAND	9.00

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

Type of Taper	Taper Length (L)*		
MERGING TAPER	AT LEAST L		
SHIFTING TAPER	AT LEAST 0.5L		
SHOULDER TAPER	AT LEAST 0.33L		
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN, 100 FT MAXIMUM		
DOWNSTREAM TAPER	50 FT MIN, 100 FT MAX PER LANE		

FORMULAS FOR DETERMINING TAPER LENGTHS

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 FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

SUGGESTED WORK ZONE WARNING SIGN SPACING

Road Type	Distance Between Signs**				
Road Type	Α	В	С		
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350		
MOST OTHER ROADWAYS*	500	500	500		
EXPRESSWAY/FREEWAY*	1,000	1,500	2,640		

- * SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY. DISTANCES ARE SHOWN IN FEET.
- ** THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCED WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCED WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERENCED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

GENERAL NOTES

- 1. THESE TEMPORARY TRAFFIC CONTROL PLANS DEPICT TRAFFIC OPERATIONS FOR A KING RICHARD'S FAIRE EVENT. TRAFFIC OPERATIONS WERE DEVELOPED IN COORDINATION WITH THE CARVER POLICE DEPARTMENT AND REPRESENTATIVES OF KING'S FAIRE, INC.
- 2. THE PROJECT BASE MAPPING SHOWN WAS PREPARED FROM AERIAL PHOTOGRAPHY FOR STUDY PURPOSES, ACCURACY IS NOT GUARANTEED.
- 3. POLICE OFFICER LOCATIONS SHOWN ON THESE PLANS ARE UNDER THE CONTROL OF THE THE CARVER POLICE DEPARTMENT. THESE LOCATIONS ARE SUBJECT TO CHANGE IN ORDER TO ADDRESS SPECIFIC FIELD CONDITIONS AND PUBLIC SAFETY RELATED ISSUES.
- 4. IT IS THE ENGINEER'S INTENT THAT THE CARVER POLICE DEPARTMENT AND KING RICHARDS FAIRE STAFF WILL COORDINATE 24-48 HOURS PRIOR TO THE EVENT TO DETERMINE THE LEVEL OF TRAFFIC CONTROL REQUIRED FOR THE UPCOMING EVENT DAY. THE TEMPORARY TRAFFIC CONTROL SETUP EXPECTED TO BE UTILIZED ON A TYPICAL EVENT DAY IS THE PRE-EVENT SMALL SETUP SHOWN ON SHEET 5.
- 5. IT IS THE ENGINEER'S INTENT THAT THE CARVER POLICE DEPARTMENT AND KING RICHARDS FAIRE STAFF WILL COORDINATE TO DETERMINE WHEN THE INCOMING TRAFFIC HAS SUBSIDED AND THE EGRESS TRAFFIC IS INCREASING. THE TIME TO REMOVE THE PRE-EVENT SETUP AND INSTALL THE EGRESS PATTERN SHALL BE MUTUALLY COORDINATED.

PROJECT TITLE

Route 58 Event Management Plans

Carver, Massachusetts

PREPARED FOR

King's Faire, Inc.

Minnetonka, Minnesota



35 N.E. BUSINESS CENTER DRIVE ANDOVER, MA 01810-1071 TEL: (978) 474-8800 www.rdva.com

DESIGNED BY	DAD		
DRAWN BY	DAD/MPP		
CHECKED BY	SMB		
DATE	JUNE 2022		
SCALE	N.T.S.		
STAMP			

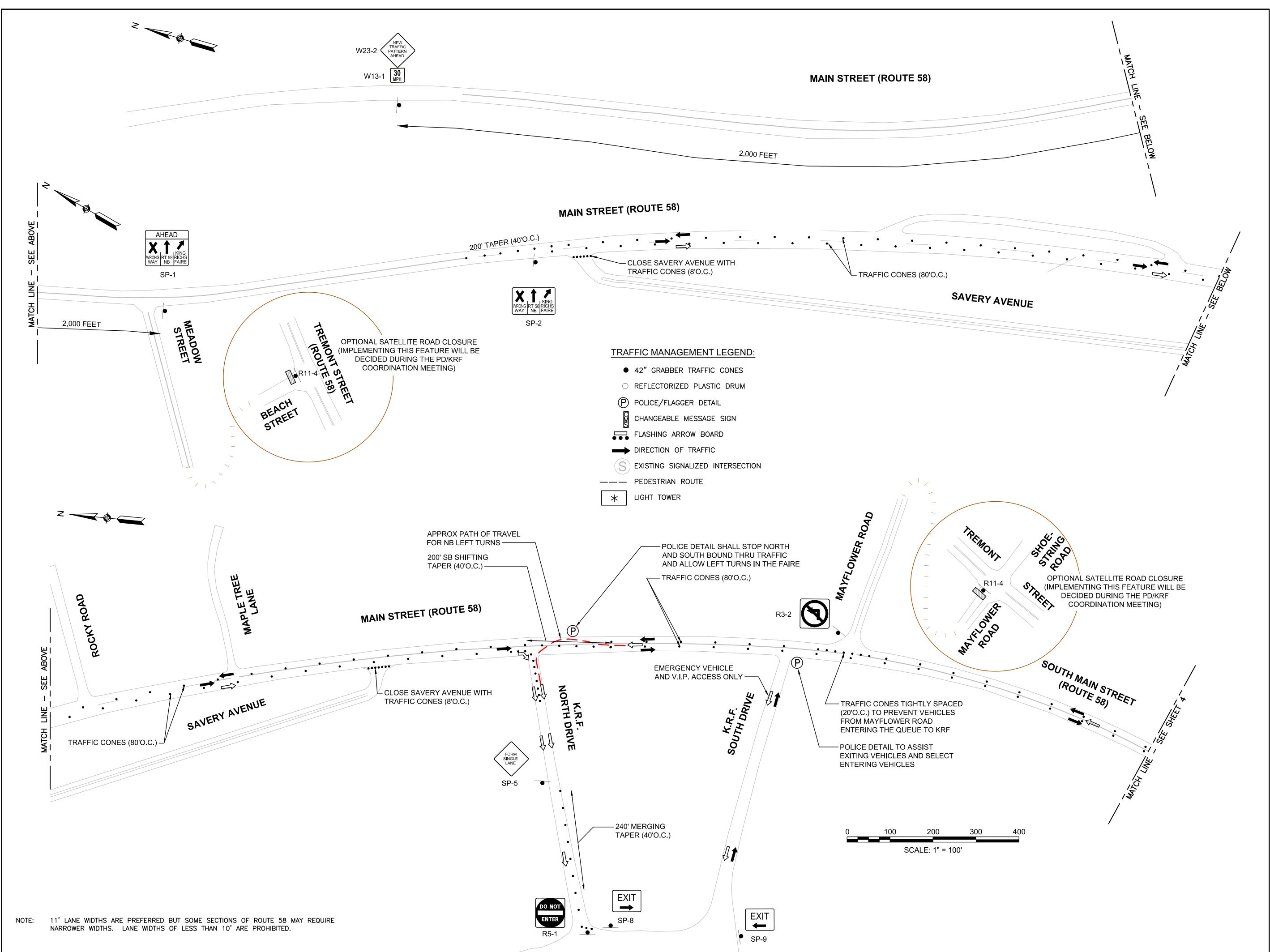
REVISIO	NS	
NO.	DESCRIPTION	DA

General Notes

SHEET 2 OF 6 DRAWING NUMBER

JOB NO. 9243

CAD 9243DS



Route 58 Event Management Plans

Carver, Massachusetts

PREPARED FOR

King's Faire, Inc.

Minnetonka, Minnesota



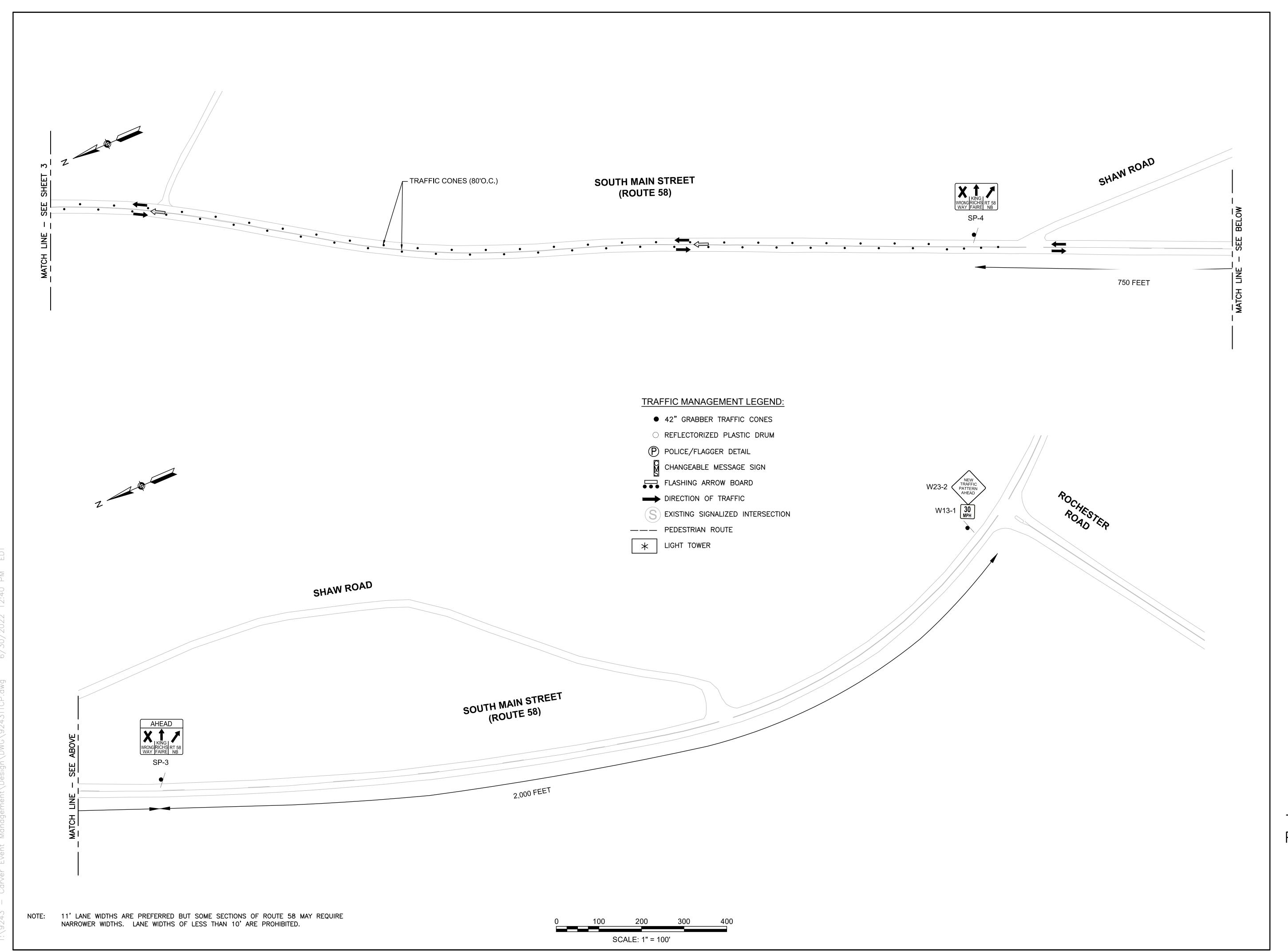
35 N.E. BUSINESS CENTER DRIVE ANDOVER, MA 01810-1071 TEL: (978) 474-8800 www.rdva.com

DESIGNED BY	DAD
DRAWN BY	DAD/MPP
CHECKED BY	SMB
DATE	JUNE 2022
SCALE	1" = 100'
STAMP	

NO.	ISIONS DESCRIPTION	DATE
1	REVISED TAPER	7/18/2

Traffic Management Plans Pre-Event Full Setup

SHEET 3 OF 6	DRAWING NUMBER
JOB NO. 9243	3
CAD 9243TTCP	.



Route 58 Event Management Plans

Carver, Massachusetts

PREPARED FOR

King's Faire, Inc.

Minnetonka, Minnesota



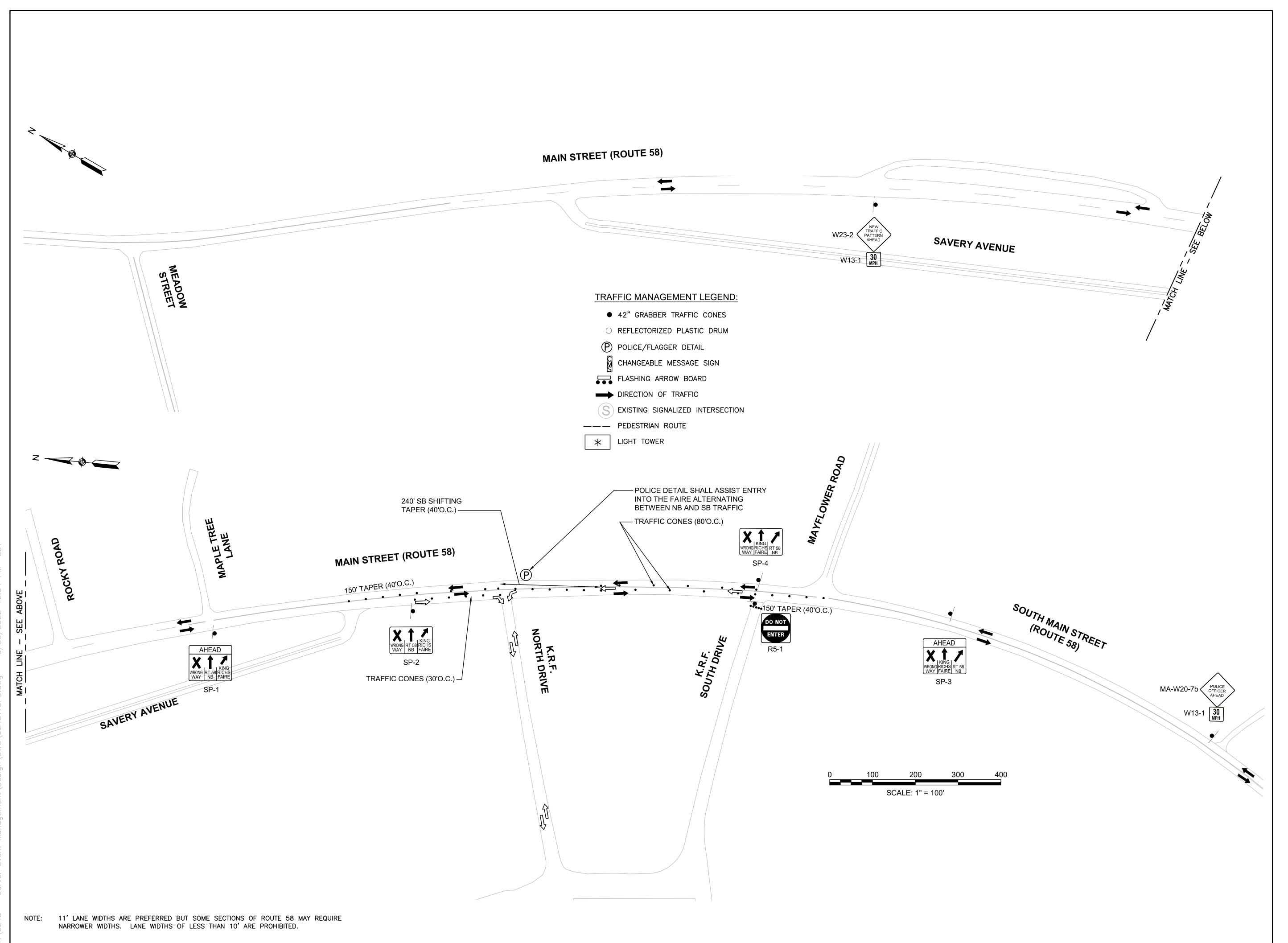
35 N.E. BUSINESS CENTER DRIVE ANDOVER, MA 01810-1071 TEL: (978) 474-8800 www.rdva.com

DESIGNED BY	DAD
DRAWN BY	DAD/MPP
CHECKED BY	SMB
DATE	JUNE 2022
SCALE	1" = 100'
STAMP	

DNS	
DESCRIPTION	DATE

Traffic Management Plans Pre-Event Full Setup

SHEET 4 OF 6	DRAWING NUMBER
JOB NO. 9243	4
CAD 9243TTCP	



Route 58 Event Management Plans

Carver, Massachusetts

PREPARED FOR

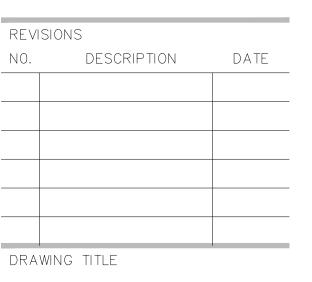
King's Faire, Inc.

Minnetonka, Minnesota



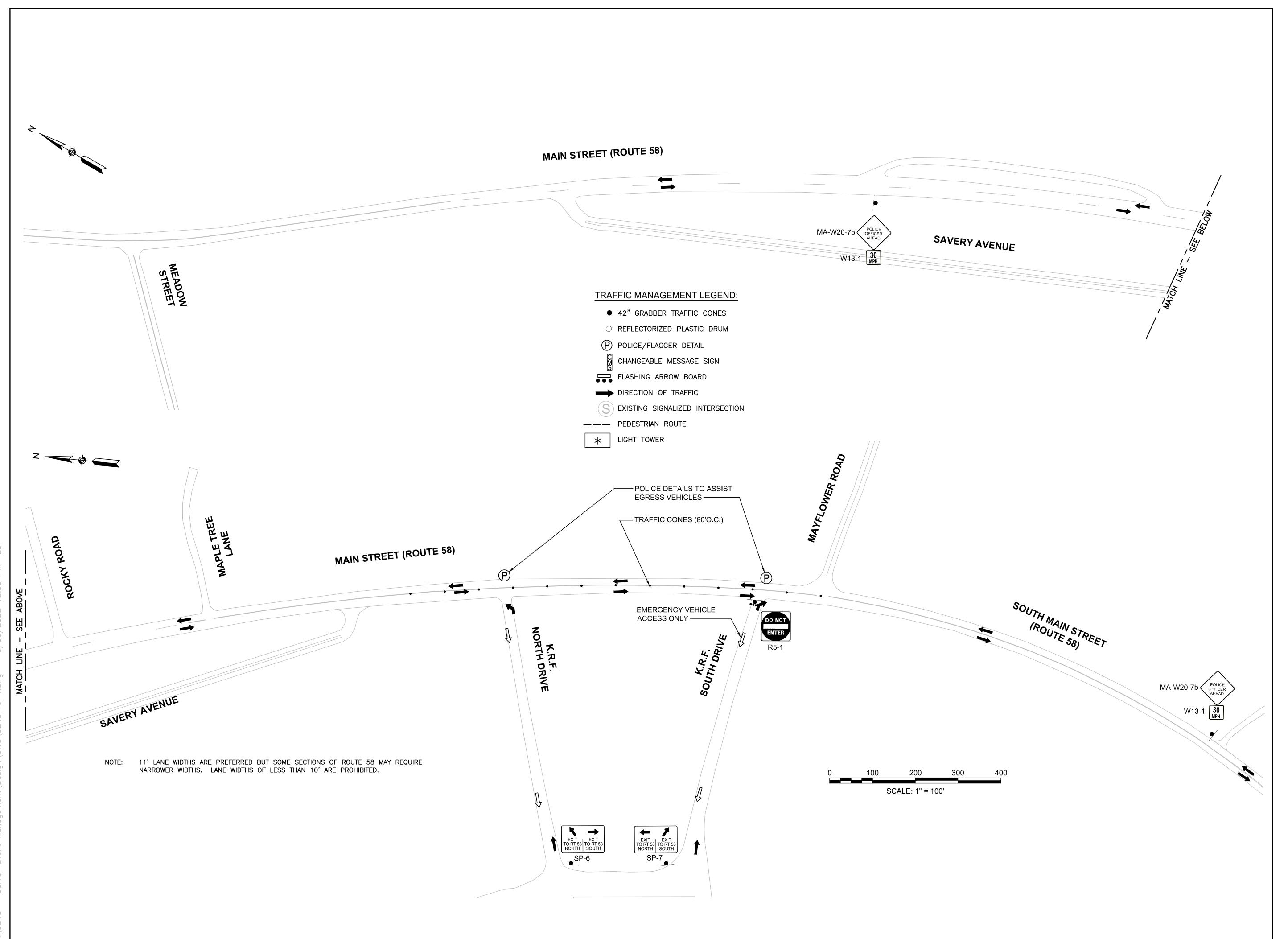
35 N.E. BUSINESS CENTER DRIVE ANDOVER, MA 01810-1071 TEL: (978) 474-8800 www.rdva.com

DESIGNED BY	DAD
DRAWN BY	DAD/MPP
CHECKED BY	SMB
DATE	JUNE 2022
SCALE	1" = 100'
STAMP	



Traffic Management Plans Pre-Event Small Setup

SHEET 5 OF 6	DRAWING NUMBER
JOB NO. 9243	5
CAD 9243TTCP3	J



Route 58 Event Management Plans

Carver, Massachusetts

PREPARED FOR

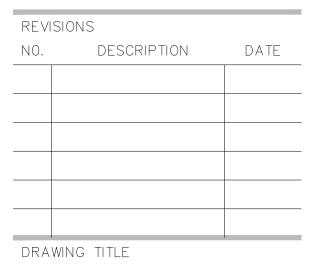
King's Faire, Inc.

Minnetonka, Minnesota



35 N.E. BUSINESS CENTER DRIVE ANDOVER, MA 01810-1071 TEL: (978) 474-8800 www.rdva.com

DESIGNED BY	DAD
DRAWN BY	DAD/MPP
CHECKED BY	SMB
DATE	JUNE 2022
SCALE	1" = 100'
STAMP	



Traffic Management Plans Post-Event Egress

SHEET 6 OF 6	DRAWING NUMBER
JOB NO. 9243	6
CAD 9243TTCP4	U