GENERAL CSAH 51 (SUNSET DR) STAGING AND TRAFFIC CONTROL INFORMATION

WORK SHALL BE PERFORMED WITH THROUGH TRAFFIC DETOURED TO XXX AYE (SEE DETOUR PLANS). LOCAL TRAFFIC IS ALLOWED IN SOME AREAS FOR ACCESS REQUIREMENTS. LOCAL METRO TRANSIT BUS TRAFFIC WILL GENERALLY BE DETOURED TO XXX AYE. FOR WHICH A SEPARATE BUS DETOUR AND PARKING RESTRICTION WILL BE DONE BY METRO TRANSIT. (SEE TRAFFIC PERMIT INFORMATION ON THIS SHEET).

THE TRAFFIC DETOUR WORK SHALL BE PAID FOR UNDER THE LUMP SUM ITEM, TRAFFIC CONTROL. WORK FOR PLACEMENT OF TEMPORARY PAVEMENT, TEMPORARY SURFACING MATERIAL (BIT. MILLINGS), PORTABLE CONCRETE MEDIAN BARRIERS, PEDESTRIAN FENCING, PAVEMENT MARKINGS, PAVEMENT MARKING REMOVALS FOR STAGE CONSTRUCTION SHALL BE PAID FOR UNDER SEPARATE PAY ITEMS. SAWCUTS FOR TRAFFIC DETOUR WORK SHALL BE INCIDENTAL.

SIGNING FOR TRAFFIC CONTROL TO SPECIFICALLY ACCOMMODATE MILLING OR PAVING OPERATIONS SHALL BE INCIDENTAL. CHANNELIZERS, TEMPORARY RAMPS, FLAGGING OR OTHER MEASURES NOT INCLUDED IN OTHER ITEMS, BUT SPECIFICALLY REQUIRED FOR MAINTENANCE OF TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR), SHALL BE INCLUDED IN THE LUMP SUM PAYMENT FOR ALTERNATE PEDESTRIAN ACCESS ROUTE, ALL OTHER SIGNAGE, CHANNELIZERS, BARRICADES AND PORTABLE CHANGEABLE MESSAGE BOARDS NECESSARY FOR THE LOCAL ACCESS DETOURS, BIKE DETOURS, AND OTHER STAGES OF CONSTRUCTION TRAFFIC CONTROL DEPICTED IN THESE STAGING & TRAFFIC CONTROL PLANS SHALL BE INCLUDED IN THE LUMP SUM PAYMENT FOR TRAFFIC CONTROL.

PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ON A MINIMUM OF ONE SIDE OF EACH STREET. AT EACH INTERSECTION THERE SHALL BE AT LEAST ONE ROUTE FOR PEDESTRIAN TRAFFIC TO CROSS CSAH 152 & 9 & 2 AT ALL TIMES. THE TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE A MINIMUM WIDTH OF 4' AND SHALL BE A PERMANENT OR TEMPORARY HARD SURFACE FREE OF SURFACE IRREGULARITIES AS PER ADA REGULATIONS. PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES TO COMMERCIAL AREAS.

BIKE AND PEDESTRIAN TRAIL TRAFFIC WITHIN THE CONSTRUCTION COORIDOR SHALL BE MAINTAINED AT ALL TIMES. THE TRAIL MAYBE REROUTED WITHIN THE CONSTRUCTION LIMITS AS NEEDED IN ORDER TO CONSTRUCT THE PROJECT. ANY TEMPORARY ROUTES SHALL BE A MINIMUM WIDTH OF 8' AND SHALL BE A PERMANENT OR TEMPORARY HARD SURFACE FREE OF SURFACE IREGULARITES AS PER ADA REGULATIONS.

THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL LOCATIONS CONSTRUCTION TRAFFIC LEAVES THE PROJECT SITE.

TRAFFIC PERMIT INFORMATION

FOR DETOUR INSTALLATIONS & PARKING RESTRICTIONS, CONTRACTOR SHALL APPLY FOR AN OBSTRUCTION PERMIT AND NOTE A REQUEST FOR **NO PARKING"* POSTING ON THE APPLICATION. THE APPLICATION SHOULD INCLUDE SPECIFIC AREAS THAT NEED TO BE POSTED SUCH AS ONE SIDE OF THE STREET OR BOTH SIDES OF THE STREET. CITY REQUIRES AT LEAST 72 BUSINESS HOURS ADVANCE NOTICE FOR POSTING (1 WEEK PREFERRED). OBSTRUCTION PERMIT APPLICATION IS MADE THROUGH ROADWAY (CALL SCOTT KRAMER AT 612-673-2383 IF ADDITIONAL INFORMATION IS NEEDED).

GENERAL STAGING RESTRICTIONS

- 1. EXISTING LIGHTING SHALL BE MAINTAINED FOR PEDESTRIANS UTILIZING THE CORRIDOR UNTIL NEW LIGHTING SYSTEM IS OPERATIONAL. COORDINATE REMOVAL OF EXISTING POLE MOUNTED LIGHTING WITH CITY OF SPRING PARK AND XCEL ENERGY.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION, MAINTENANCE AND ADJUSTMENT OF ANY EXISTING SIGNAL SYSTEM, TEMPORARY OR NEW, FOR THE DURATION OF THE PROJECT.
- 3. SEE SPECIAL PROVISIONS FOR ADDITIONAL STAGING TIME RESTRICTIONS.

GENERAL CSAH 51 (SUNSET DR) CONSTRUCTION STAGING SEQUENCE

STAGE 1: TBD
STAGE 2: TBD

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SHEET_001

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.

49073 LICENSE NO. DESIGN BY:

CAD BY:

CHECKED BY:

LAST REVISION:

R. MANKE

R. MANKE

S. PARK

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

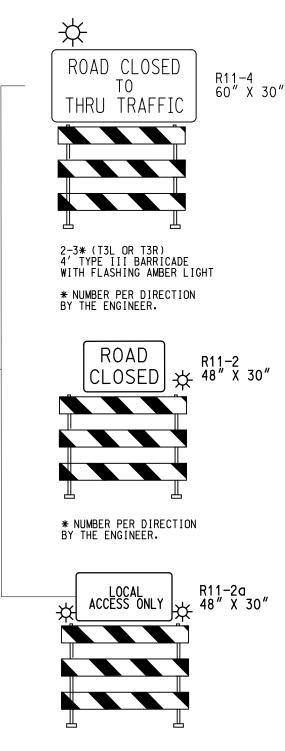
STAGING NARRATIVE

180

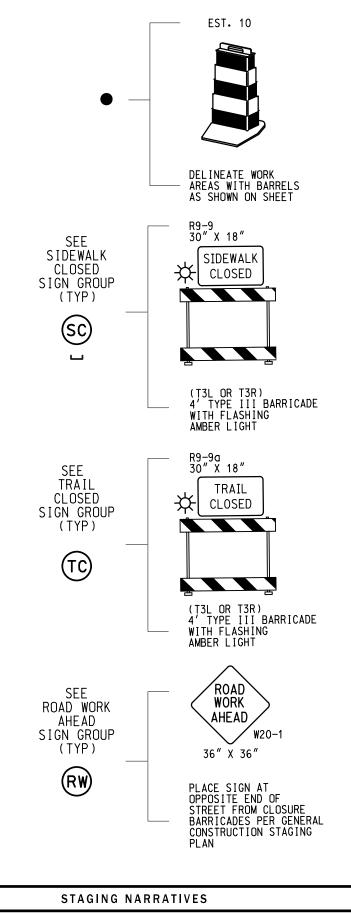
SHEET

AMBER KLEIN, LICENSED PROFESSIONAL ENGINEER

DATE



R11-4 60" X 30" * NUMBER PER DIRECTION BY THE ENGINEER.



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A

LICENSE NO.

SEE ROAD CLOSED

SIGN GROUP

OPTIONS

(TYP)

(RC)

THE CONTRACTOR WILL COORDINATE WITH OTHERS TO ACCOMODATE LOCAL

ACCESS TO THE WORK AREAS WHEN PRACTICAL. PROVIDE TEMPORARY TRAFFIC DETOURS, APPROPRIATE CONSTRUCTION SIGNAGE AND FLAGMEN

SEE DETOUR PLANS FOR ADDITIONAL SIGNAGE ON ADJACENT SIDE STREETS

AS REQUIRED OR AS DIRECTED BY

THE ENGINEER.

DESIGN BY: R. MANKE CAD BY: R. MANKE CHECKED BY: S. PARK LAST REVISION:

SHEET 181 329

DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

49073 DATE

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

AMBER KLEIN, LICENSED PROFESSIONAL ENGINEER

NOTES

MAINTAIN VEHICULAR ACCESS AT ALL TIMES (SEE ALSO GENERAL CONSTRUCTION STAGING SUMMARY).

MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES TO COMMERCIAL AREAS (SEE ALSO GENERAL CONSTRUCTION

MAINTAIN TRAIL ACCESS AT ALL TIMES. PROVIDE TEMPORARY SURFACING WITH APPROVAL OF THE ENGINEER. (SEE ALSO GENERAL CONSTRUCTION

STAGING SUMMARY).

STAGING SUMMARY).

CHANNELIZERS, SIDEWALK BARRICADES, AND PORTABLE STANDS

GENERAL NOTES;

- 1. RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.
- 2. WHEN TEMPORARY BARRIER IS USED AS A PEDESTRIAN CHANNELIZER IT SHALL MEET CRASHWORTHY REQUIREMENTS.
- 3. WHEN USED, SIDEWALK BARRICADES SHALL BE PLACED ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE.
- 4. ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.

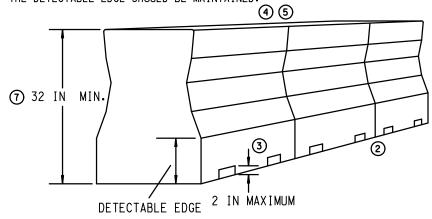
SPECIFIC NOTES;

- ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND THE DETECTABLE EDGE OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHOULD NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE, ANY SUPPORT THAT EXTENDS INTO THE WALKWAY SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE; IF GREATER THAN 0.25 INCHES, BEVEL AS SHOWN IN THE EDGE TREATMENT DETAIL.
- DETECTABLE EDGES SHALL BE CONTINUOUS AND 6 INCHES MINIMUM ABOVE THE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE. THE DETECTABLE EDGE AROUND A PORTABLE SIGN STAND SHOULD BE PLACED IN THE WALKWAY AREA IN WHICH THE SIGN POSES A HAZARD TO A VISUALLY IMPAIRED PEDESTRIAN.
- 3 DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:

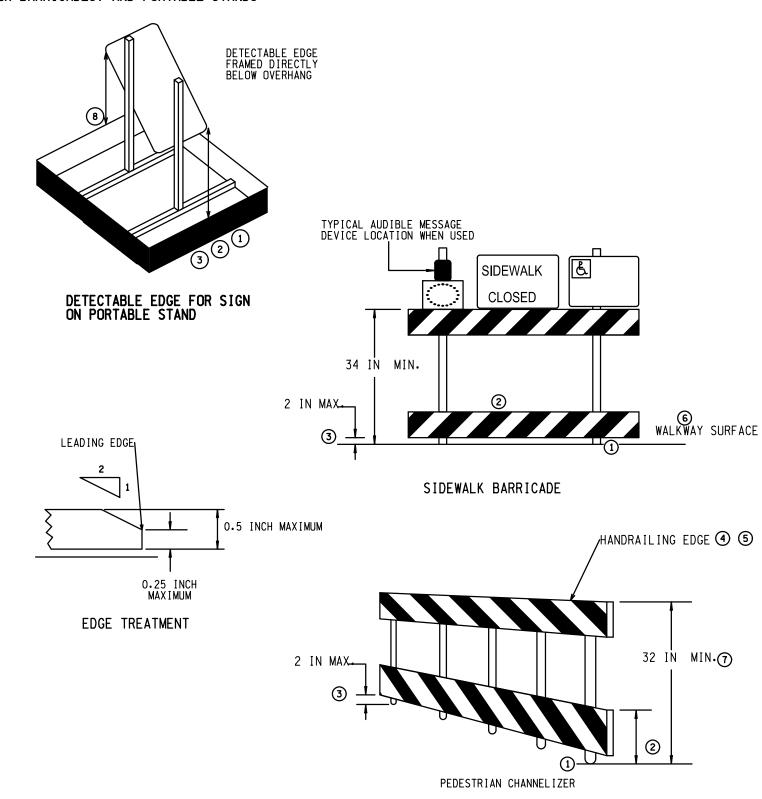
 BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE,

 BE CONTINUOUS AT A HEIGHT OF 34 TO 38 INCHES ABOVE THE WALKWAY SURFACE, AND

 BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.
- (5) ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- TEMPORARY WALKWAY SURFACES SHALL BE FIRM, STABLE, FREE-DRAINING AND NON-SLIP REGARDLESS OF WEATHER CONDITIONS. TEMPORARY WALKWAY SURFACES SHALL ALLOW NORMAL USAGE OF WHEELCHAIRS, WALKERS, STROLLERS, OR OTHER MOBILITY DEVICES. CONCRETE, BITUMINOUS, STEEL, RUBBER, WOOD (3/4 IN OR THICKER), AND PLASTIC ARE ACCEPTABLE SURFACE MATERIALS FOR A TEMPORARY WALKWAY SURFACE. GRAVEL, MILLINGS, OR OTHER UNEVEN SURFACES ARE NOT ACCEPTABLE SURFACE MATERIALS.
- (7) LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES HIGH OR GREATER.
- AN EDGE OF THE FRAMING MAY BE REMOVED IF IT IS NOT NEEDED FOR PED GUIDANCE. STABILITY OF THE DETECTABLE EDGE SHOULD BE MAINTAINED.



PEDESTRIAN CHANNELIZER DEVICE USING A TEMPORARY BARRIER





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.

AMBER KLEIN, LICENSED PROFESSIONAL ENGINEER LICENSE NO.

DESIGN BY:

CAD BY:

CHECKED BY:

LAST REVISION:

R. MANKE

R. MANKE

S. PARK

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

STAGING NARRATIVES

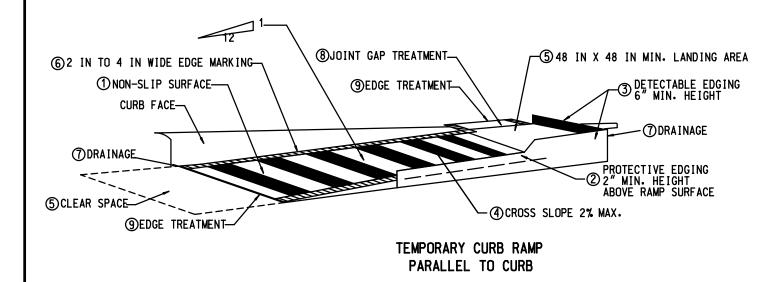
TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) DEVICES

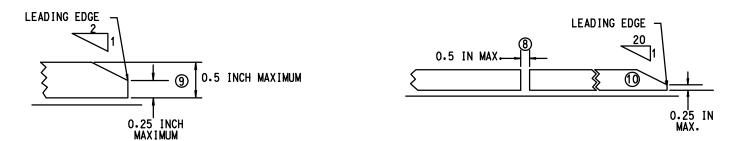
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TEMPORARY CURB RAMPS AND WALKWAY SURFACES

SPECIFIC NOTES;

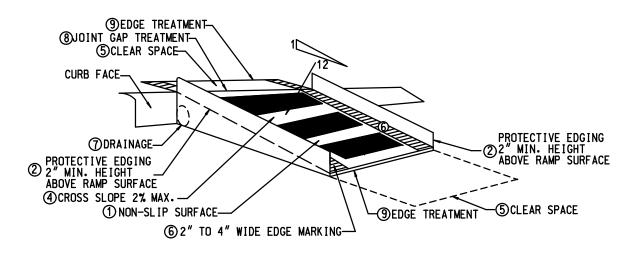
- (1) CURB RAMPS SHALL BE 48 IN MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- PROTECTIVE EDGING WITH A 2 IN MIN, HEIGHT SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN OR MORE.
- (3) DETECTABLE EDGING WITH 6 IN MIN. HEIGHT AND CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- (5) CLEAR SPACE OF 48 IN X 48 IN MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2 IN TO 4 IN WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- (7) WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2 IN WIDTH.
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4 IN HIGH, AND BEVELED AT 1:2 BETWEEN 1/4 IN AND 1/2 IN HEIGHT.
- (10) THE TEMPORARY WALKWAY SURFACE MAY HAVE A THICKNESS GREATER THAN 0.5 INCHES. IF THE THICKNESS OF THE TEMPORARY WALKWAY SURFACE IS LESS THAN OR EQUAL TO 0.5 INCHES, THE BEVEL MAY BE 1:2.



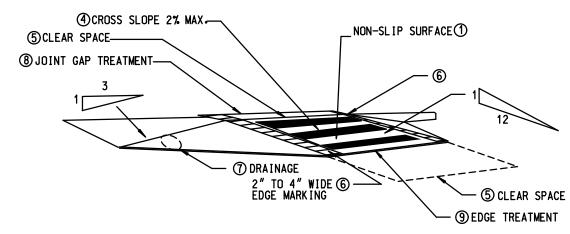


EDGE TREATMENT

TEMPORARY WALKWAY SURFACE



TEMPORARY CURB RAMP PERPENDICULAR TO CURB SHOWN WITH PROTECTIVE EDGE



TEMPORARY CURB RAMP PERPENDICULAR TO CURB SHOWN WITH SIDE APRON

TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) DEVICES



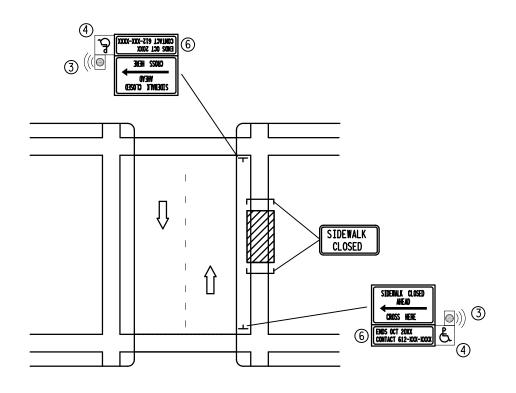
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> 49073 LICENSE NO.

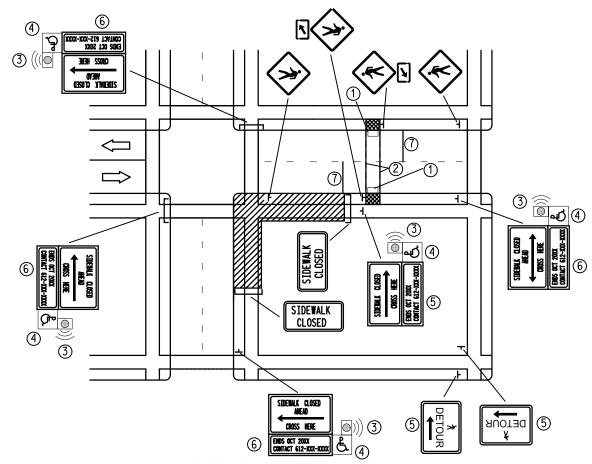
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STAGING NARRATIVES







OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS (FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES. THE MINIMUM TEMPORARY WALKWAY WIDTH SHOULD BE THE WIDTH OF THE EXISTING FACILITY. IF THE EXISTING FACILITY HAS A WIDTH OF GREATER THAN 60 IN, THE WIDTH OF THE TEMPORARY FACILITY MAY BE 60 INCHES. IF THE WIDTH OF THE DETOUR IS LESS THAN 60 INCHES, THEN A 60 INCH BY 60 INCH PASSING SPACE IS REQUIRED EVERY 200 FT.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN.
OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC.
STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN
ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS,
MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. PROVIDE A FIRM, STABLE, FREE-DRAINING, AND NON-SLIP TEMPORARY WALKWAY SURFACE, REGARDLESS OF WEATHER CONDITIONS. THE TEMPORARY WALKWAY SURFACE SHALL BE SUPPORTED BY A SOLID BASE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND. THE TEMPORARY WALKWAY SURFACE WILL ALLOW NORMAL USAGE OF WHEELCHAIRS, WALKERS, STROLLERS, AND OTHER MOBILITY DEVICES. CONCRETE, BITUMINOUS, STEEL, RUBBER, WOOD (3/4 INCHES OR THICKER), AND PLASTIC ARE ACCEPTABLE SURFACE MATERIALS FOR THE TEMPORARY WALKWAY SURFACE. GRAVEL, MILLINGS, OR OTHER UNEVEN SURFACES ARE NOT ACCEPTABLE SURFACE MATERIALS.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ANY PORTABLE SIGN OR BARRICADE PLACED OR STORED IN A PEDESTRIAN WALKWAY THAT COULD BE A HAZARD TO A VISUALLY IMPAIRED PEDESTRIAN SHALL HAVE A DETECTABLE EDGE TO GUIDE THE PEDESTRIAN AROUND THE HAZARD.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE: PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED

ROUTE UTILIZING BYPASSES.

WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.

WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS.

IF NOT ALREADY LIT, LIGHTING SHOULD BE CONSIDERED AT MID-BLOCK CROSSINGS IN ORDER TO ILLUMINATE PEDESTRIANS.

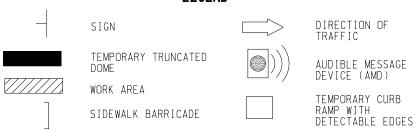
SPECIFIC NOTES

LICENSE NO

- TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- TEMPORARY PAVEMENT MARKINGS FOR CROSSWALKS MAY USE CROSSWALK BLOCKS OR TWO TRANSVERSE LINES. TWO STRIPS OF 18 INCH PREFORMED MARKING MATERIAL MAY BE USED TO FORM 36 INCH WIDE CROSSWALK BLOCKS.
- PROVIDE AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE FOR PEDESTRIANS WITH VISUAL DISABILITIES.
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE FULLY ACCESSIBLE. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR.

- PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHOULD BE USED IF THE PEDESTRIAN DETOUR IS LOCATED SOMEPLACE OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.
- TYPICAL SIGN MESSAGE FOR A ALTERNATE PEDESTRIAN ROUTE SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS. TYPICAL INFORMATION INCLUDED IN AN AUDIBLE MESSAGE CAN BE FOUND IN "TPAR AUDIBLE MESSAGE CONTENT GUIDELINES" WHICH CAN BE FOUND ON THE MODOT TRAFFIC ENGINEERING WEB SITE ON THE PEDESTRIAN ACCOMMODATIONS THROUGH WORK ZONES WEB-PAGE. ADDITIONALLY, A SUMMARY OF THE MESSAGE CONTENT GUIDELINES CAN BE FOUND WITHIN THE PEDESTRIAN ACCOMMODATIONS THROUGH WORK ZONES DESIGN GUIDANCE DOCUMENT.
- STOP BAR SHOULD BE LOCATED 20 TO 50 FEET PRIOR TO THE CROSSWALK, RESTRICT PARKING BETWEEN THE STOP BAR AND THE CROSSWALK, ON TWO-WAY ROADWAYS, RESTRICT PARKING BOTH PRIOR TO AND AFTER THE CROSSWALK FOR BOTH DIRECTIONS.

LEGEND



ALTERNATE PEDESTRIAN ROUTE (APR) LAYOUTS-DETOURS



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.

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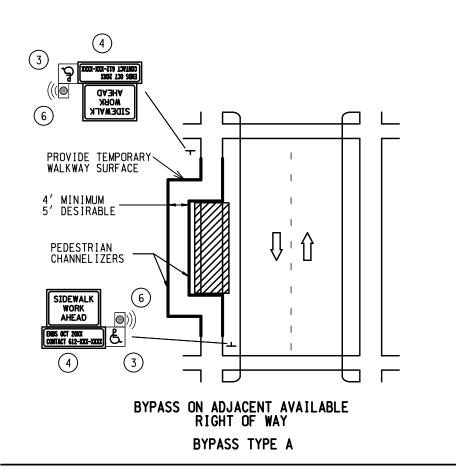
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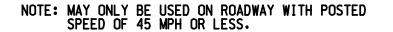
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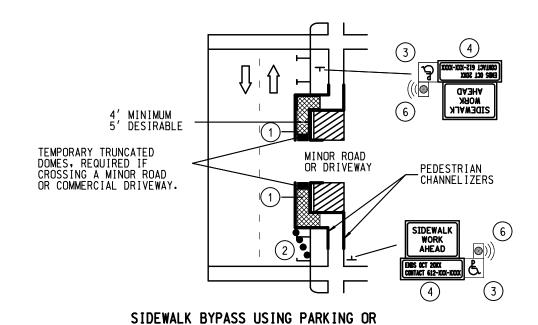
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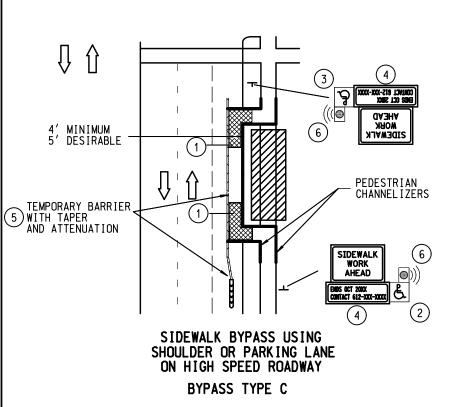
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DATE









GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES. THE ALTERNATE PEDESTRIAN ROUTE (APR) MUST REMAIN OPEN AT ALL TIMES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR, PROVIDE A FIRM, STABLE, FREE-DRAINING, AND NON-SLIP TEMPORARY WALKWAY SURFACE, REGARDLESS OF WEATHER CONDITIONS. THE TEMPORARY WALKWAY SURFACE SHALL BE SUPPORTED BY A SOLID BASE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND. THE TEMPORARY WALKWAY SURFACE WILL ALLOW NORMAL USAGE OF WHEELCHAIRS, WALKERS, STROLLERS, AND OTHER MOBILITY DEVICES. CONCRETE, BITUMINOUS, STEEL, RUBBER, WOOD (3/4 INCHES OR THICKER), AND PLASTIC ARE ACCEPTABLE SURFACE MATERIALS FOR THE TEMPORARY WALKWAY SURFACE, GRAVEL, MILLINGS, OR OTHER UNEVEN SURFACES ARE NOT ACCEPTABLE SURFACE MATERIALS.

IF A 60 INCH PEDESTRIAN WALKWAY WIDTH ISN'T PROVIDED FOR THE ROUTE, THEN A 60 INCH BY 60 INCH PASSING SPACE IS REQUIRED EVERY 200 FEET. THE MINIMUM WIDTH OF THE WALKWAY IS 48 INCHES.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE LOWEST SIGN TO THE SIDEWALK SURFACE.

ANY PORTABLE SIGN OR BARRICADE PLACED OR STORED IN A PEDESTRIAN WALKWAY THAT COULD BE A HAZARD TO A VISUALLY IMPAIRED PEDESTRIAN SHALL HAVE A DETECTABLE EDGE TO GUIDE THE PEDESTRIAN AROUND THE HAZARD.

SHOULDER ON LOW SPEED ROADWAY

BYPASS TYPE B

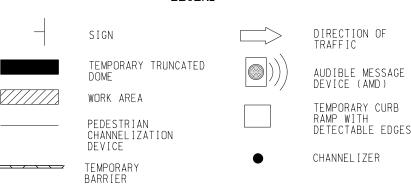
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

- PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
- WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
 WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF
- THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS.

SPECIFIC NOTES

- TEMPORARY CURB RAMPS.
- 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE.
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE FULLY ACCESSIBLE THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR.
- TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- SEE THE MODOT TEMPORARY BARRIER GUIDANCE MANUAL DECEMBER 2018 FOR GUIDANCE ON PLACEMENT AND USAGE OF TEMPORARY BARRIER.
- AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE MAY BE PROVIDED FOR PEDESTRIANS WITH VISUAL DISABILITIES.

LEGEND



ALTERNATE PEDESTRIAN ROUTE (APR) LAYOUTS-DETOURS



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.

> 49073 DATE LICENSE NO

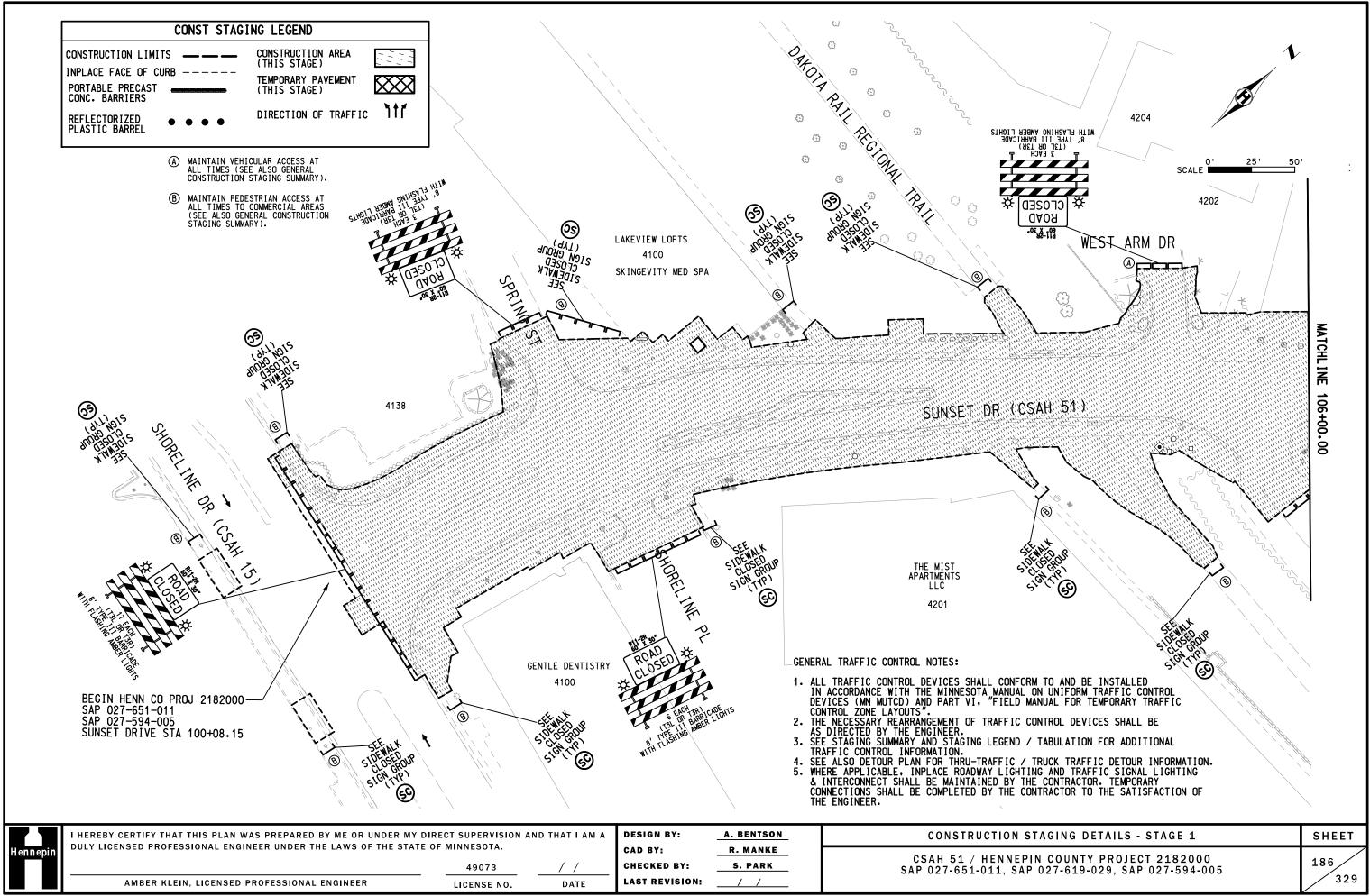
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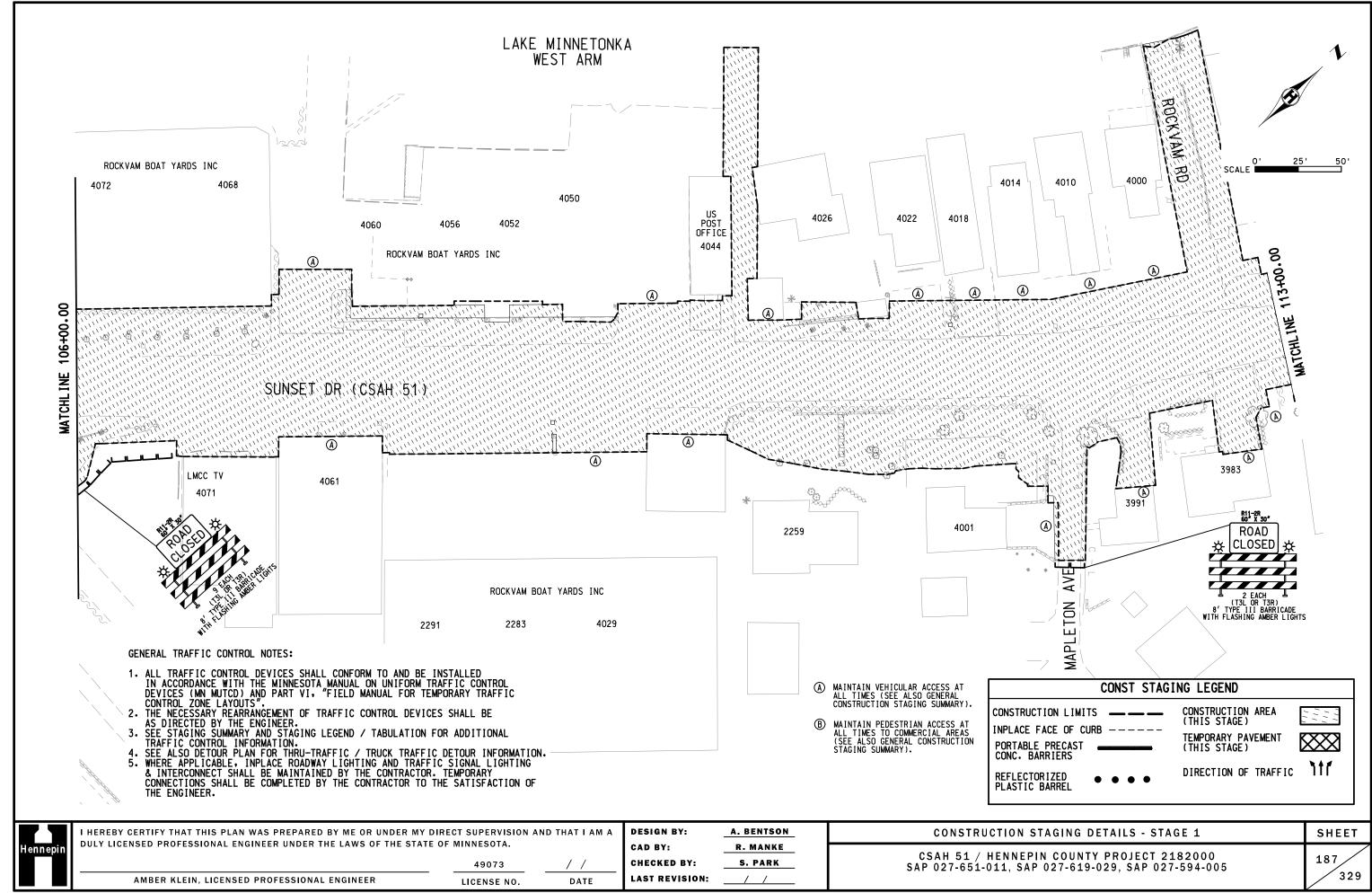
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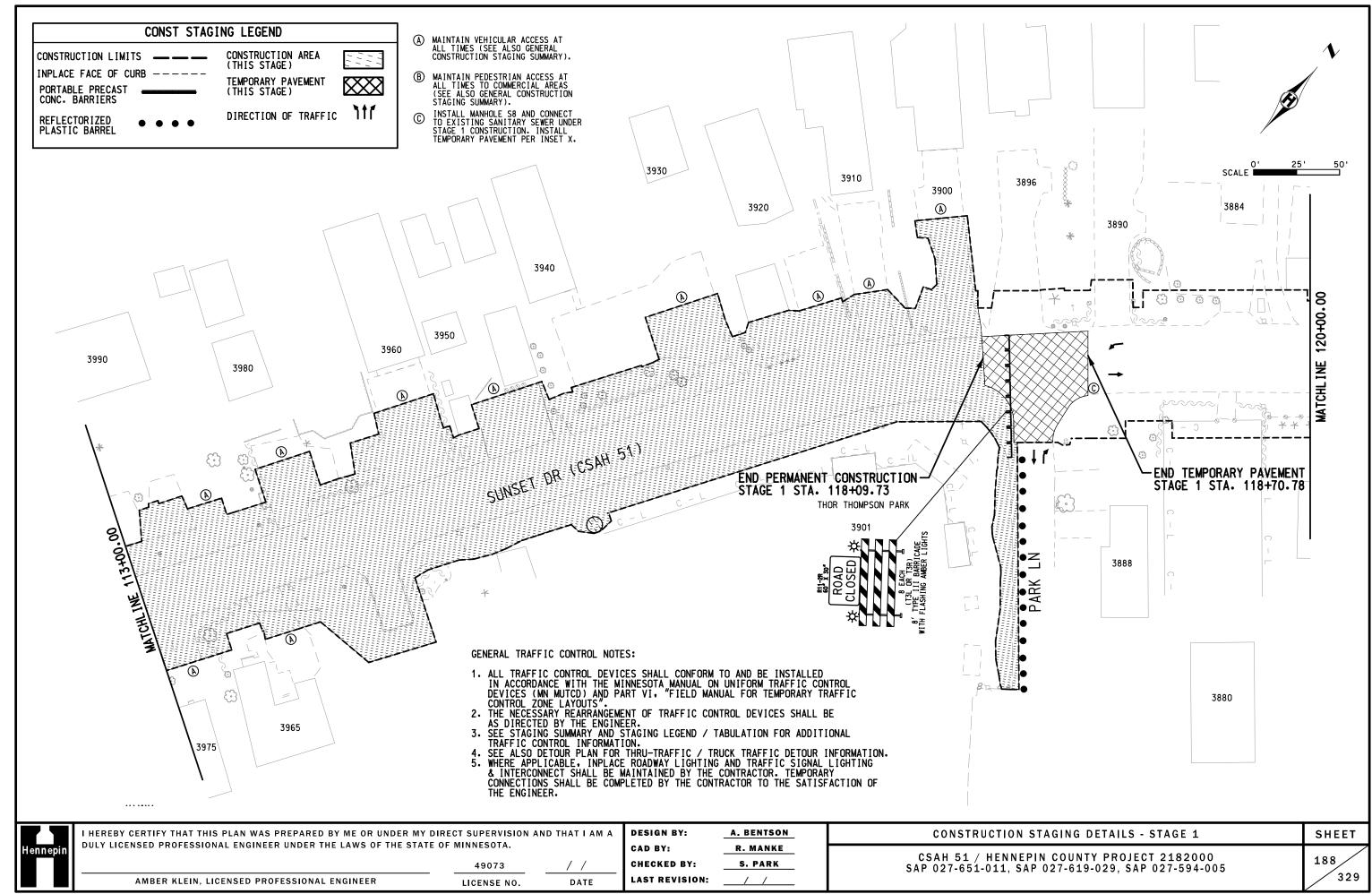
STAGING NARRATIVES

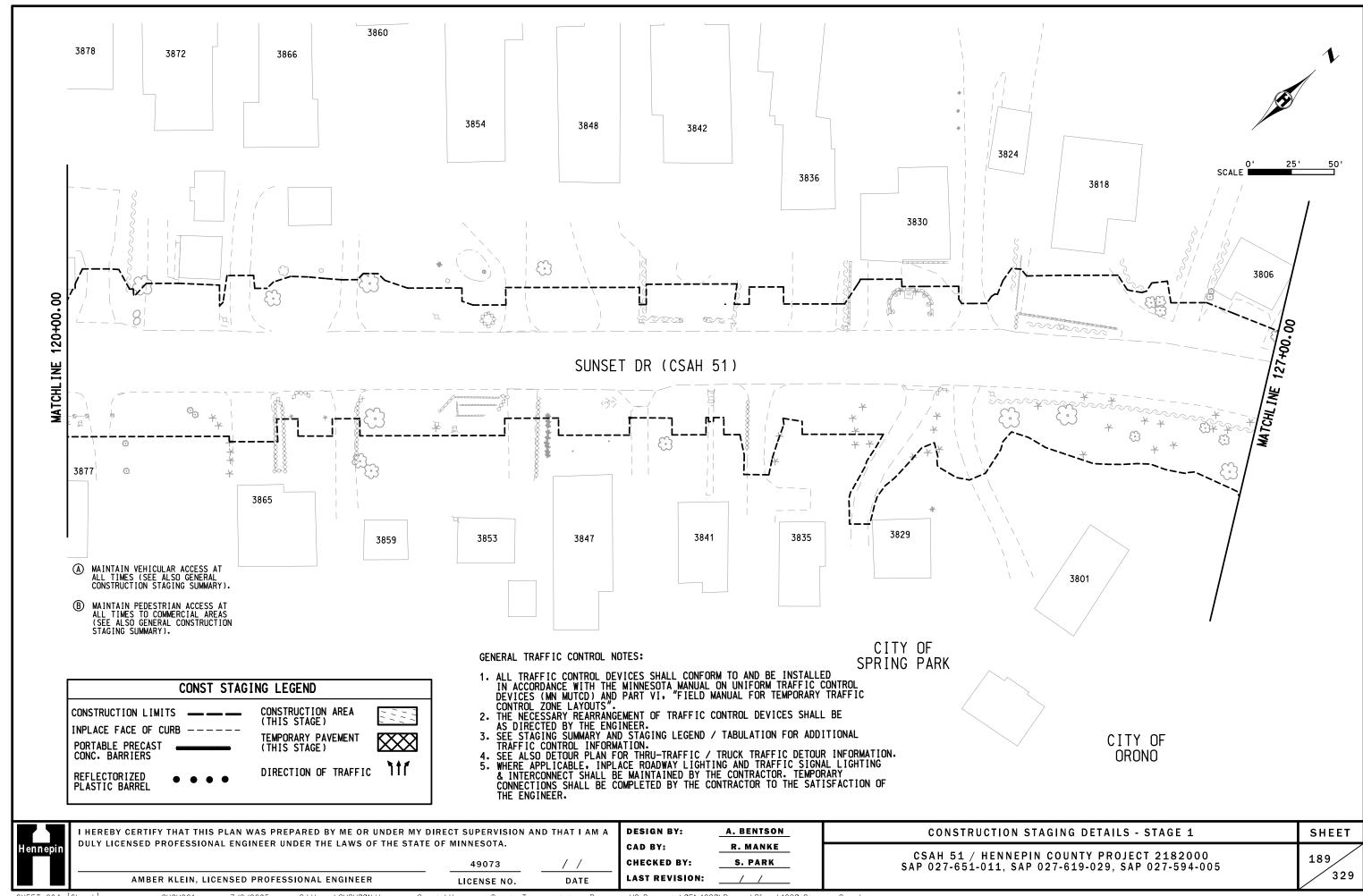
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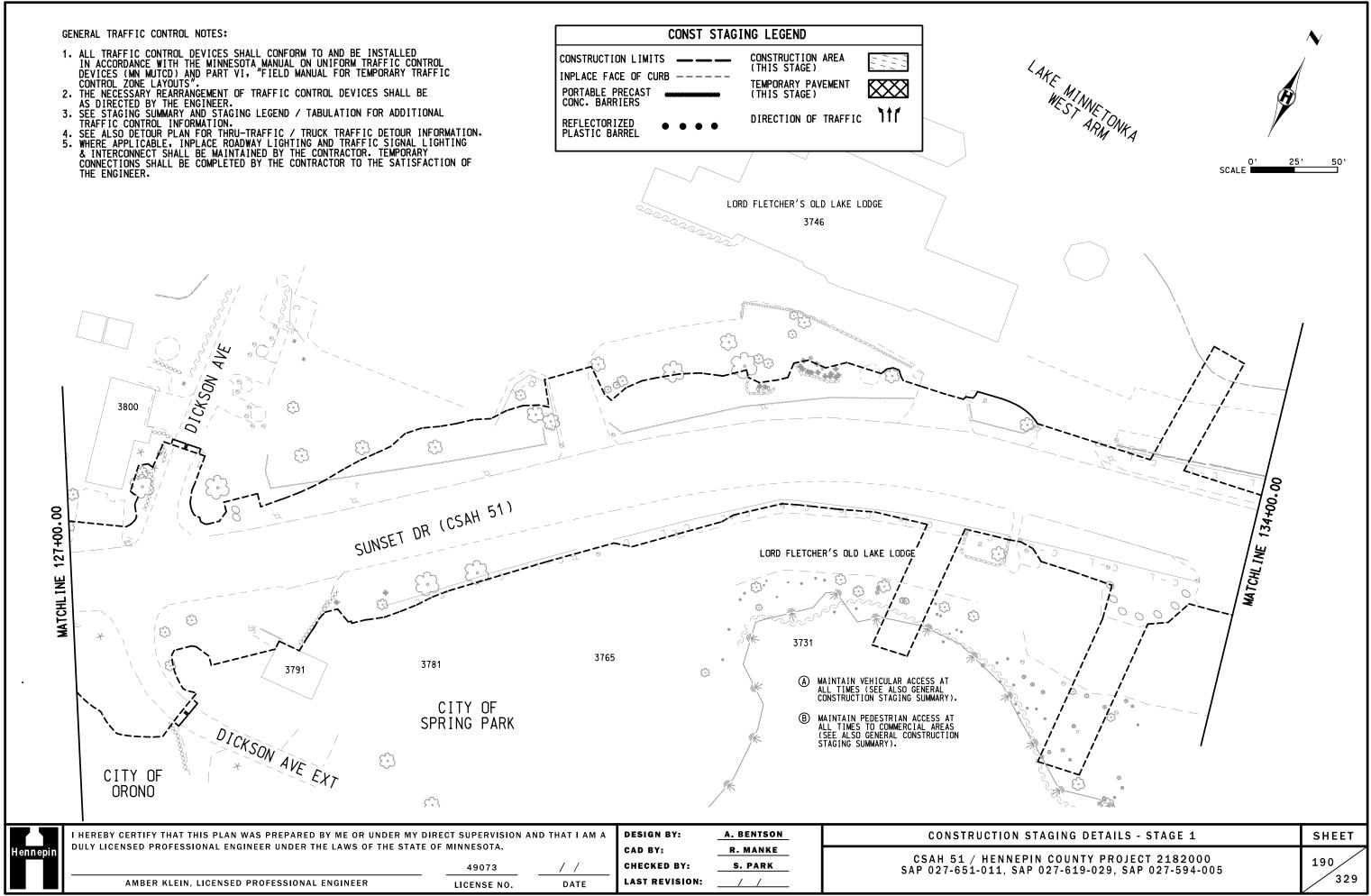
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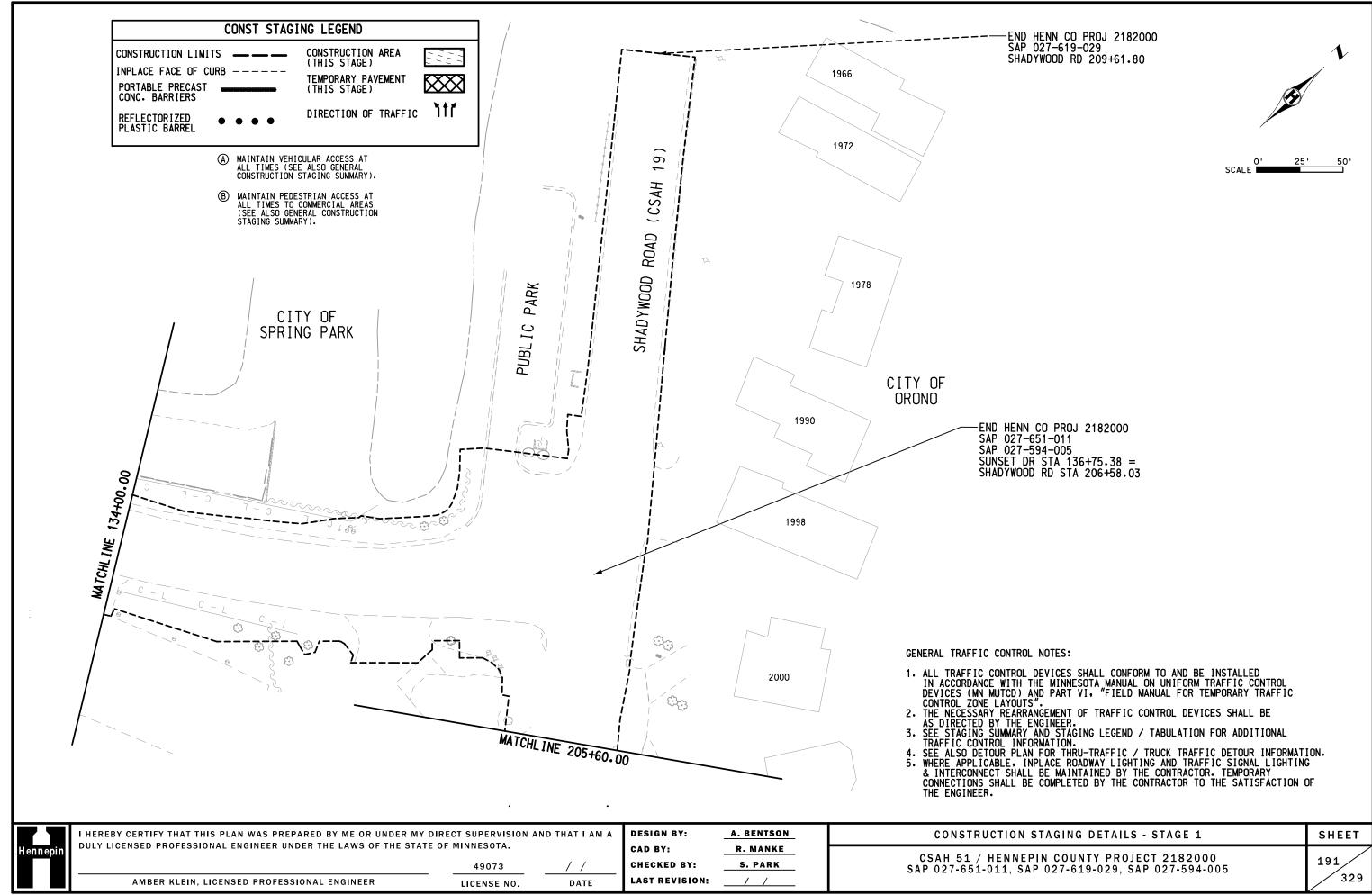


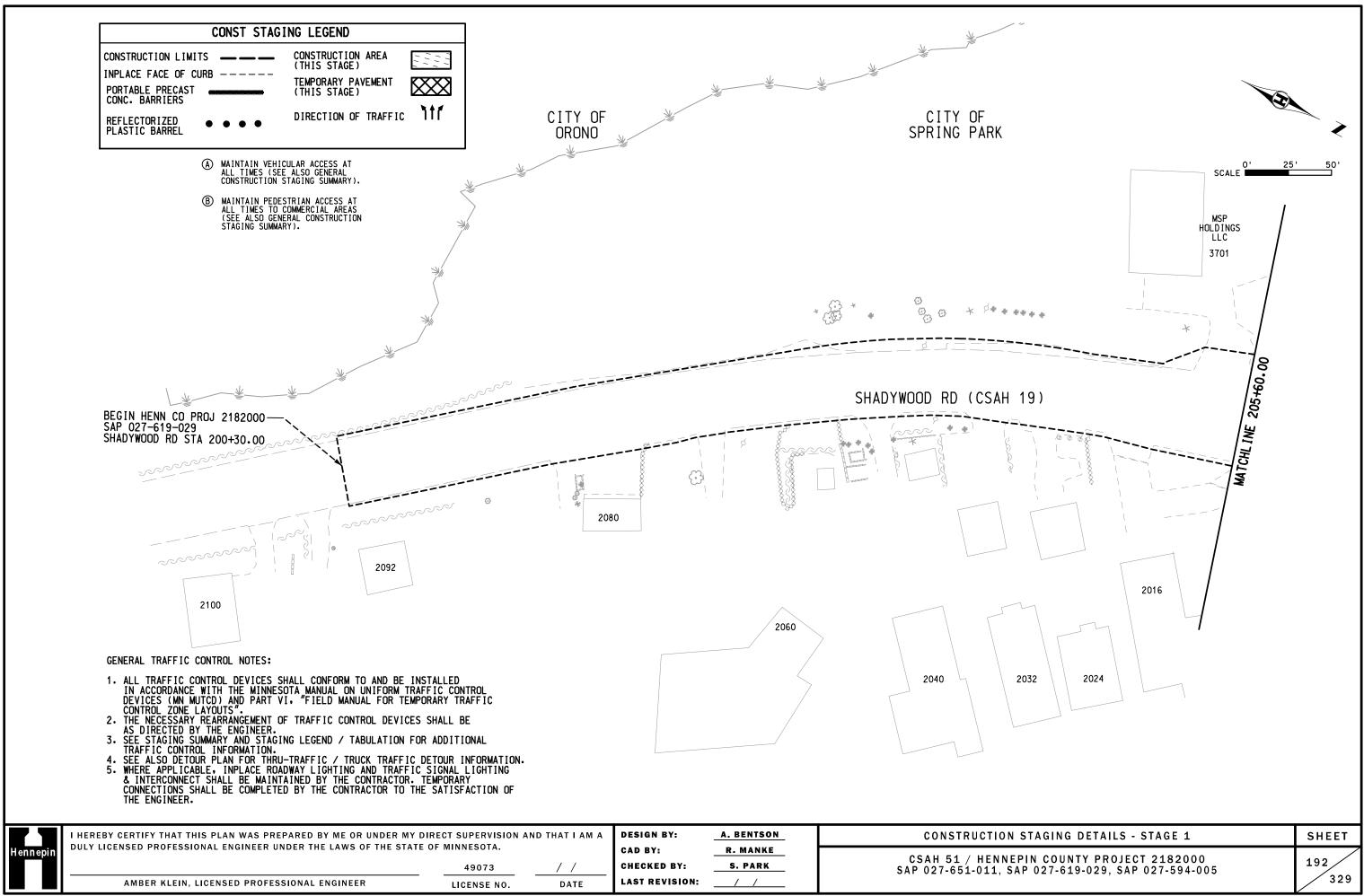


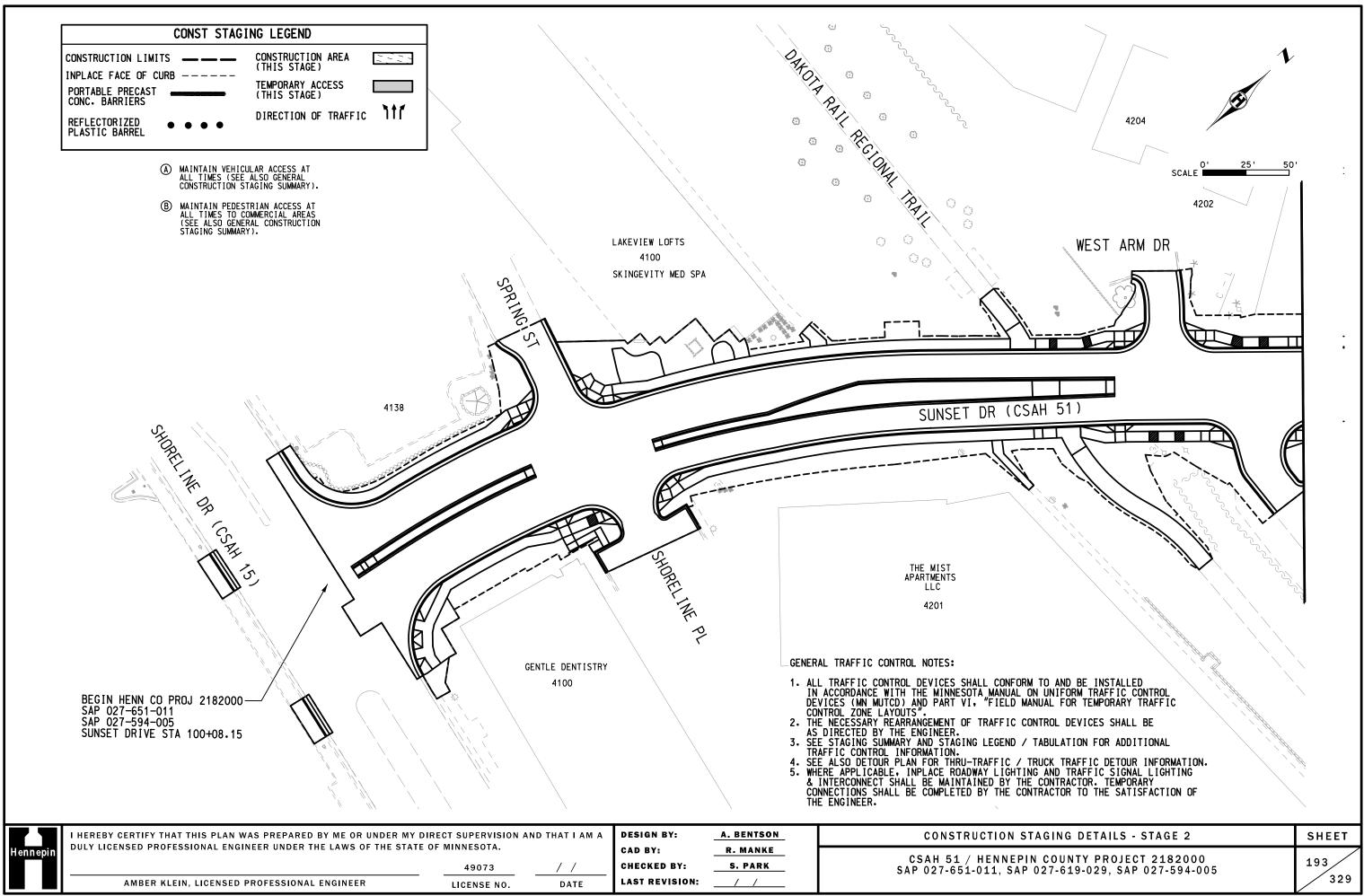


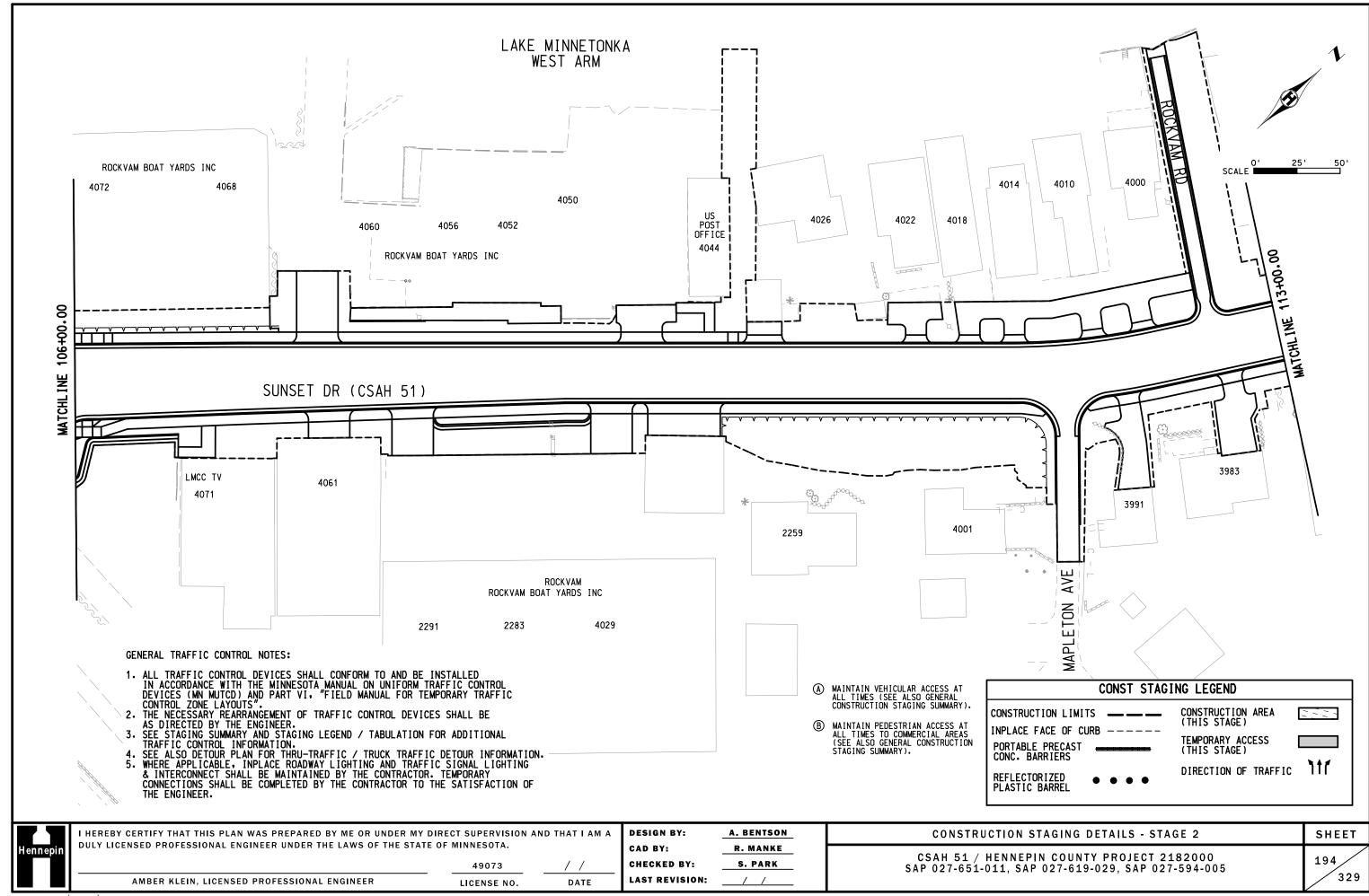


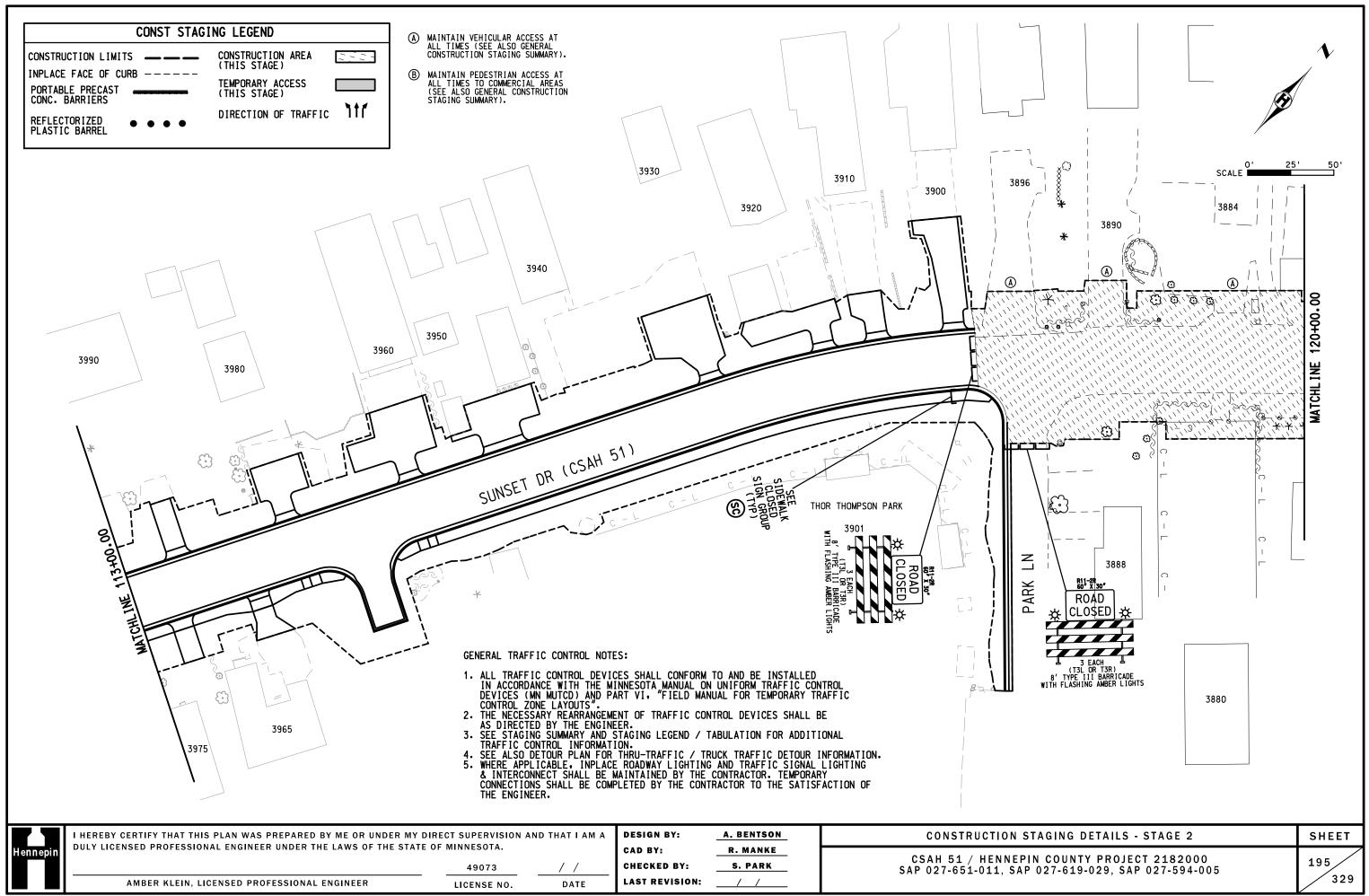


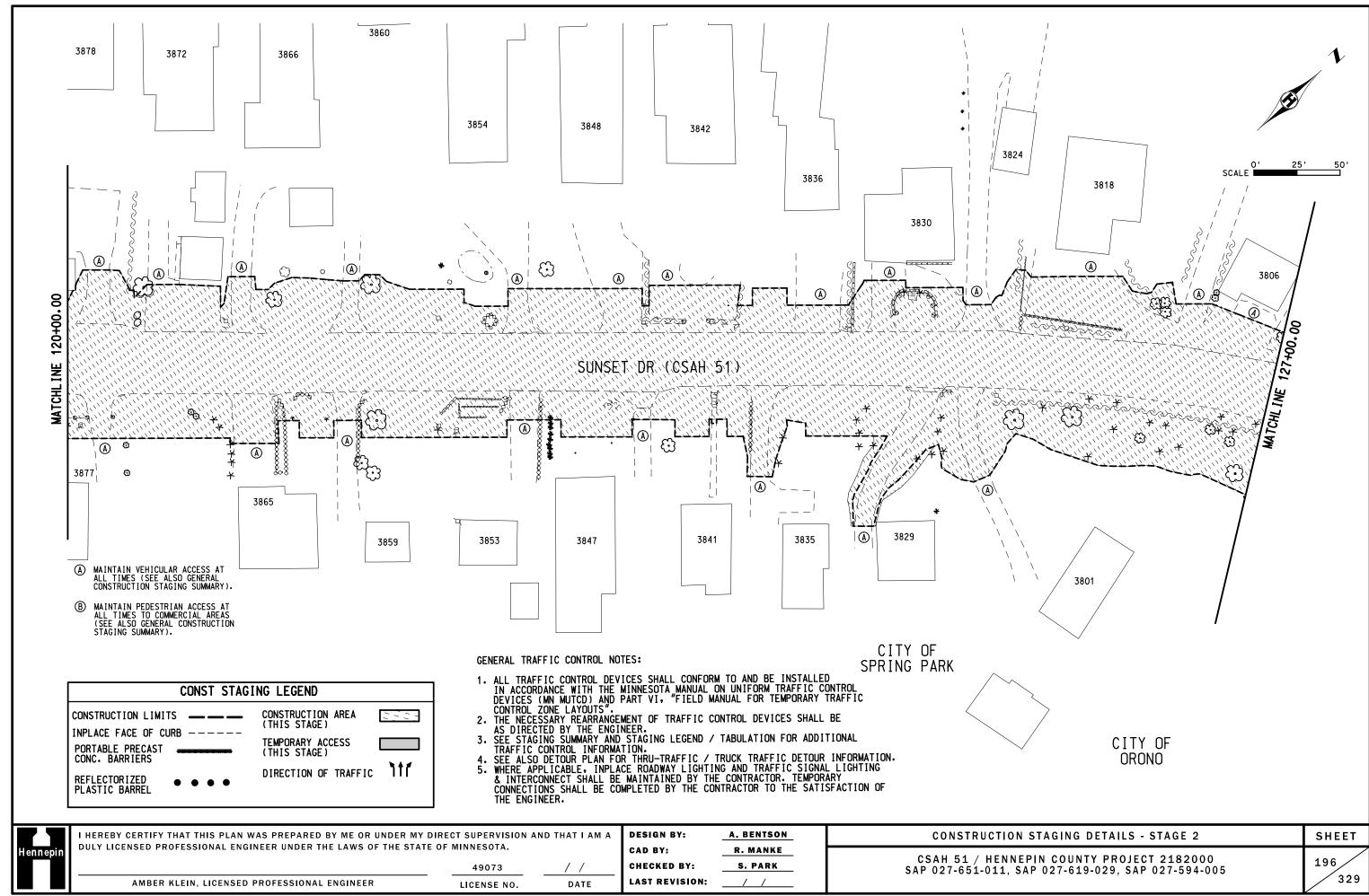


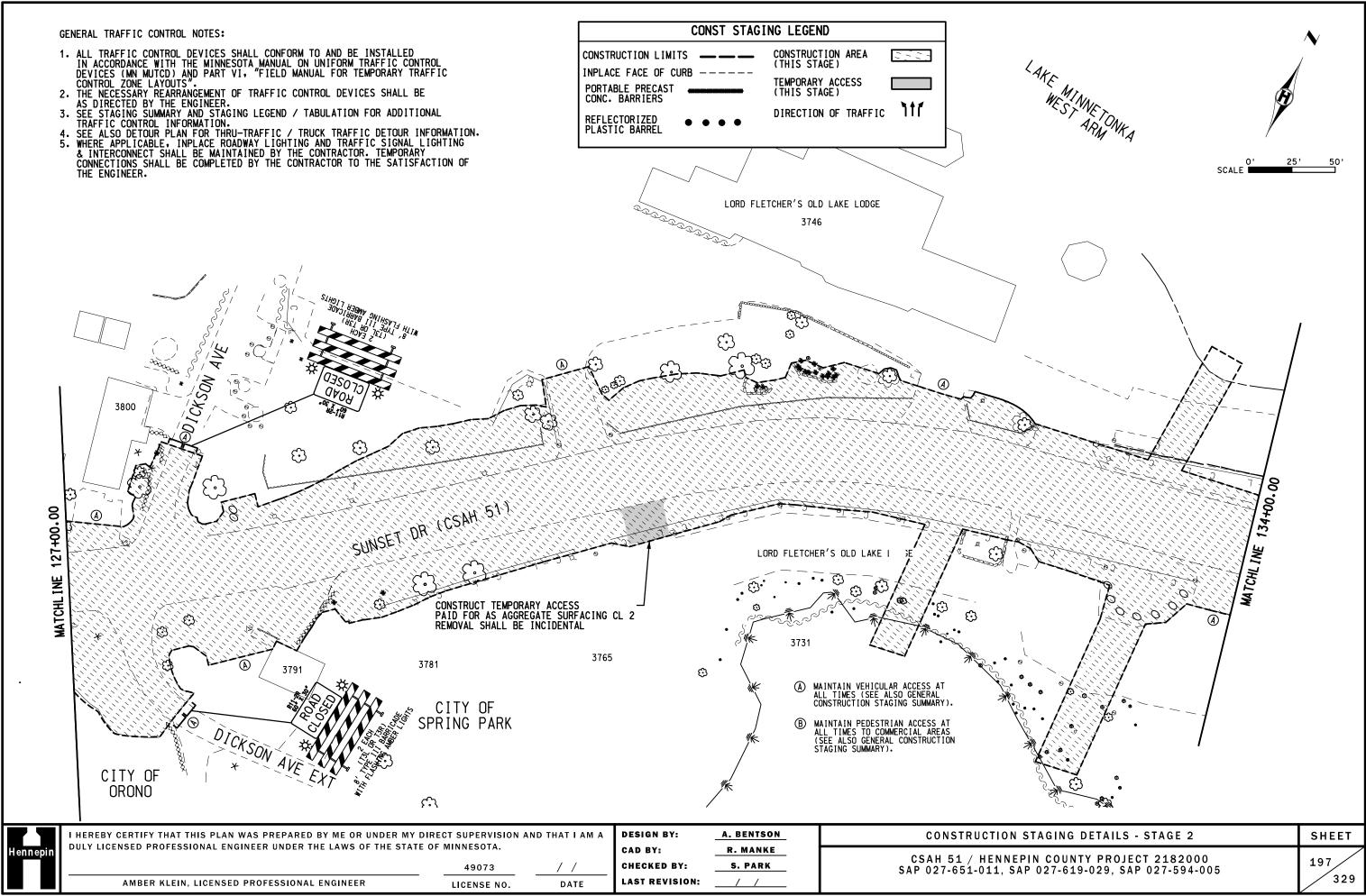


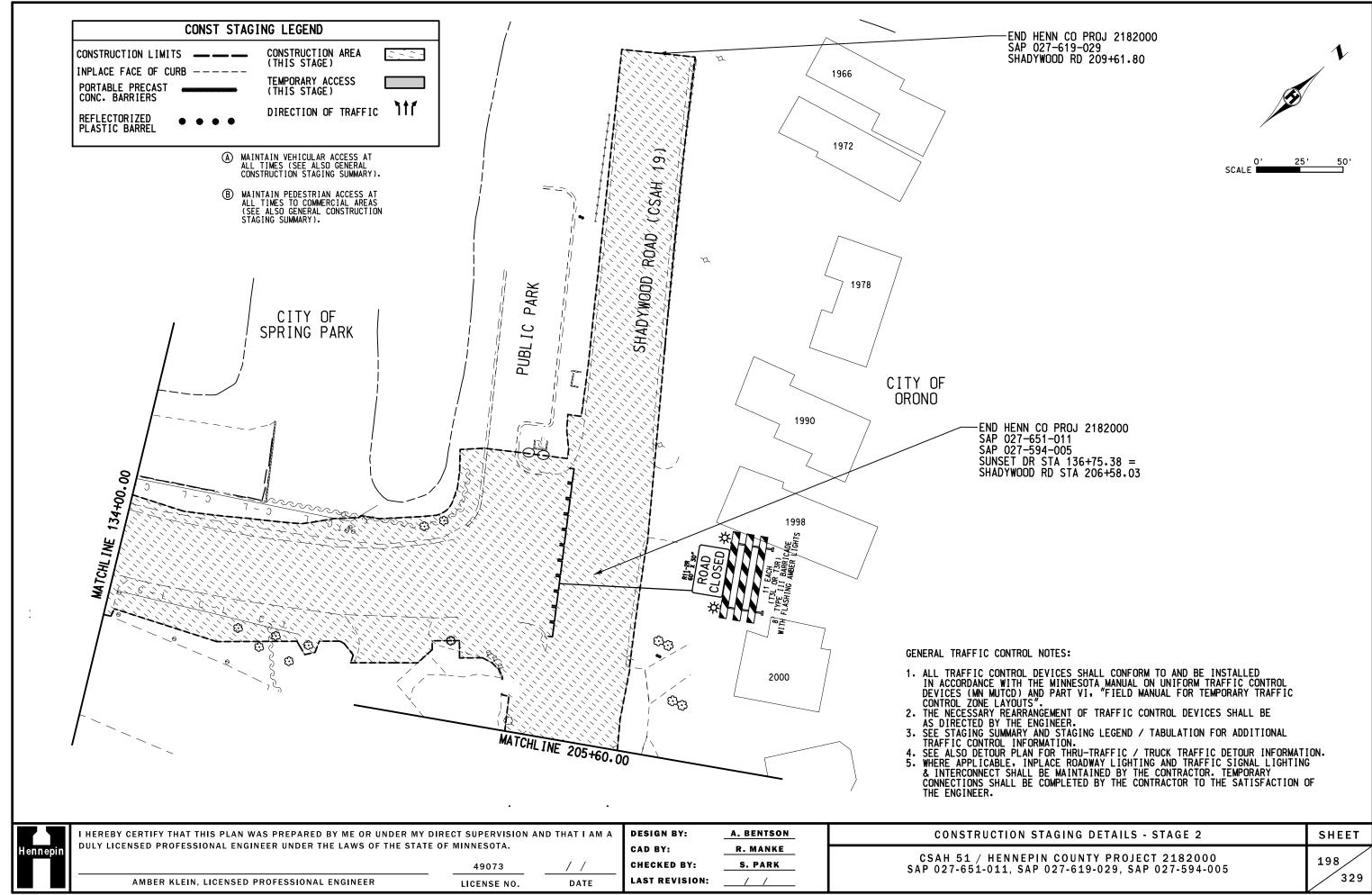


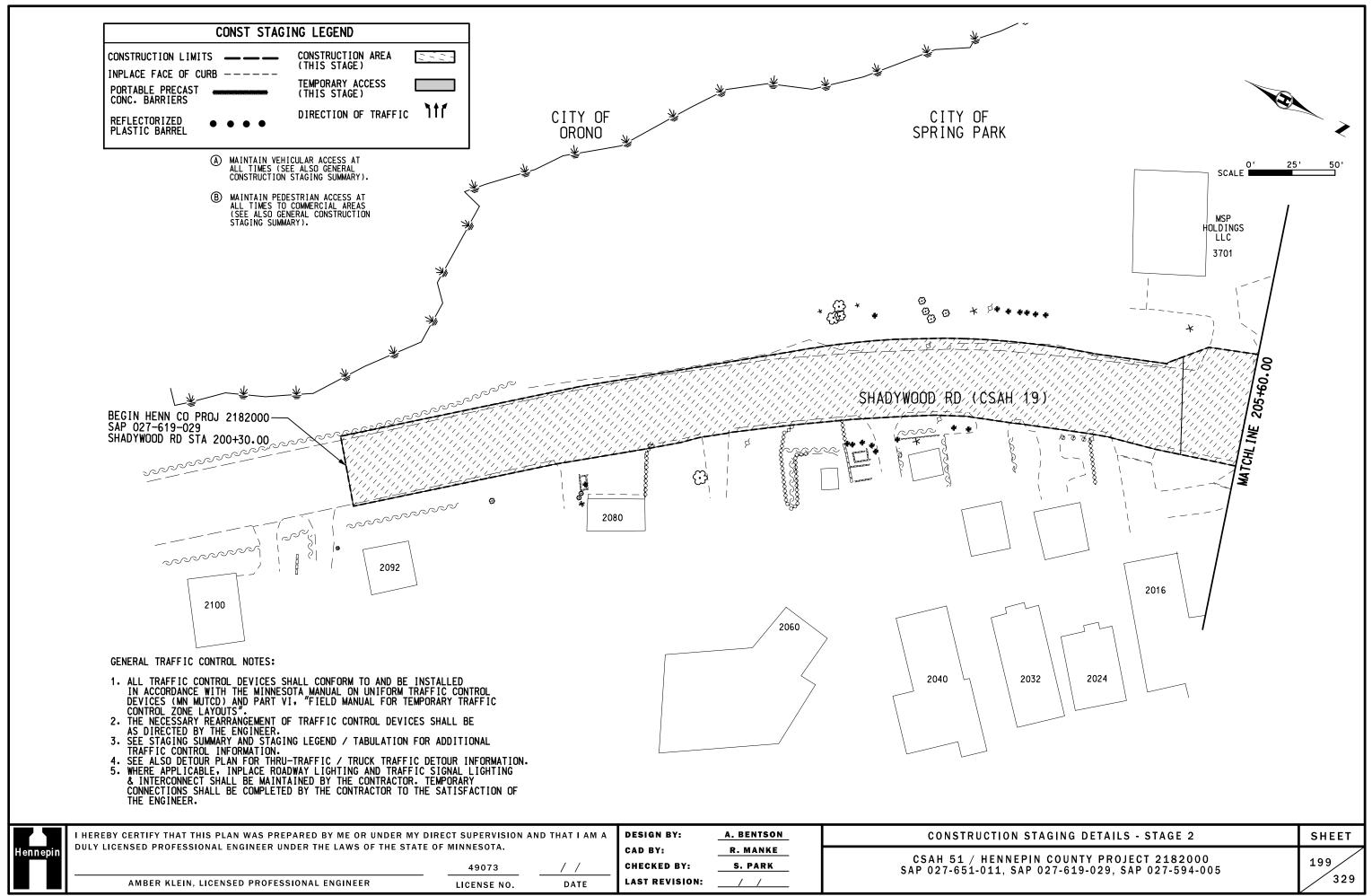


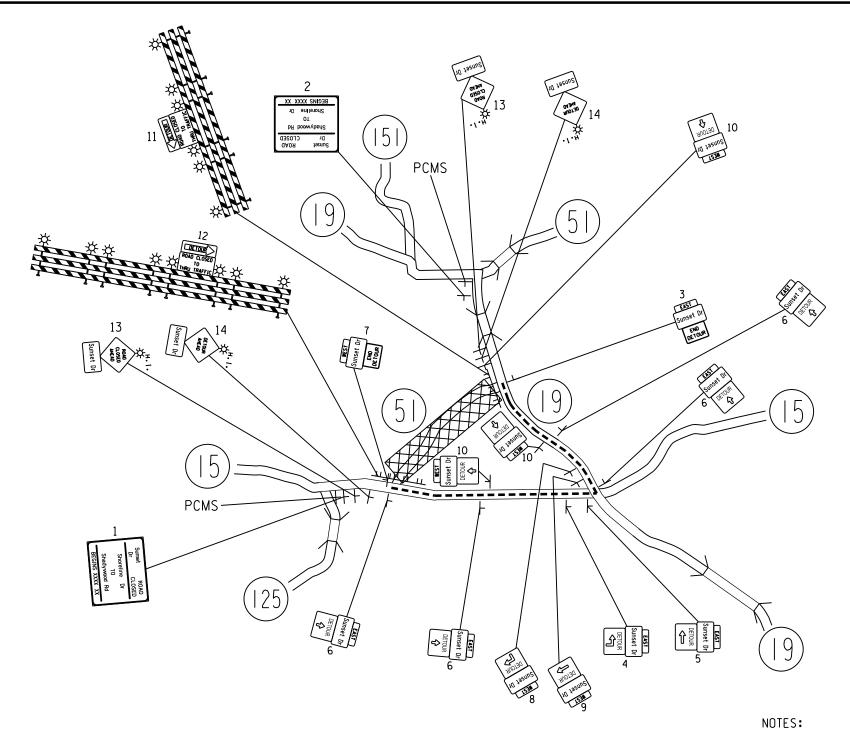














TEMPORARY TRAFFIC CONTROL LEGEND

APPROPRIATE SIGN AS INDICATED

8' - TYPE III BARRICADE WITH APPROPRIATE SIGN AS INDICATED

ఘ FLASHING LIGHT

HIGH INTENSITY FLASHING LIGHT

 \boxtimes WORK ZONE

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

DETOUR ROUTE

- 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".
- ALL INPLACE TRAFFIC CONTROL DEVICES THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED. REMOVED OR REVISED. AS DIRECTED BY THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. ANY NECESSARY REARRANGEMENT SHALL BE AS DIRECTED BY THE ENGINEER.
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE PLACED 7 DAYS PRIOR TO CLOSING ROAD. ENGINEER SHALL DETERMINE THE MESSAGE DISPLAYED.



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.

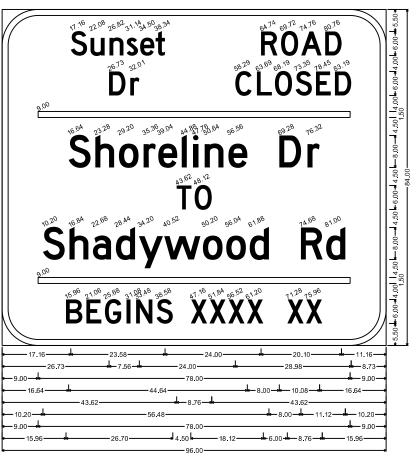
> 45896 LICENSE NO.

DESIGN BY: A. CHALUPSKY CAD BY: A. CHALUPSKY CHECKED BY: R. ALLERS LAST REVISION:

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

TRAFFIC CONTROL DETOUR PLAN

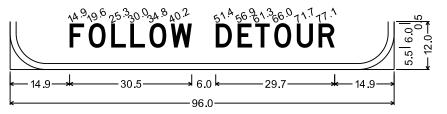
177 329



9.00" Radius, 1.50" Border, Black on Orange;

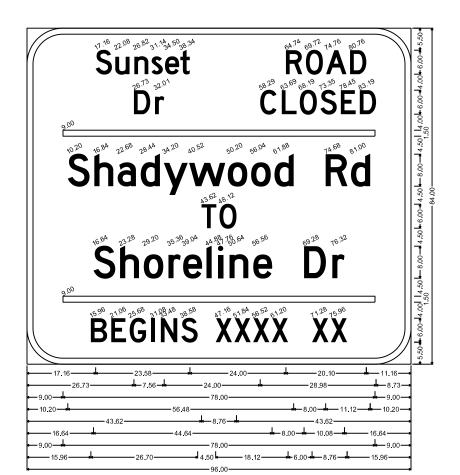
Sunset ROAD", D 2K; " Dr CLOSED", D 2K; "Shoreline Dr", D 2K; "TO", D 2K;

"Shadywood Rd", D 2K; "BEGINS", D 2K; "XXXX XX", D 2K;



FOLLOW DETOUR;

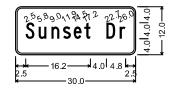
9.0" Radius, 1.5" Border, Black on Orange; "FOLLOW DETOUR", D;



9.00" Radius, 1.50" Border, Black on Orange,

Sunset ROAD", D 2K, " Dr CLOSED", D 2K, "Shadywood Rd", D 2K, "TO", D 2K,

"Shoreline Dr", D 2K; "BEGINS", D 2K; "XXXX XX", D 2K;



Sunset Dr:

1.5" Radius, 0.4" Border, Black on Orange;

"Sunset Dr", C;

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45896

LICENSE NO.

DESIGN BY: A. CHALUPSKY CAD BY: A. CHALUPSKY CHECKED BY: R. ALLERS LAST REVISION:

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

TRAFFIC CONTROL DETOUR DETAIL

178 329

SHEET

RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER

			TRAFFI	C CONTROL BASIS FOR LUMI	P SUM				
				PANEL (2)					
SIGN NUMBER	QUANTITY (1)	CODE NUMBER	COLOR	LEGEND		COLOR LEGEND SIZE (INCHES)		S)	MOUNTING
1	1	G20-X2	BLACK ON ORANGE	SUNSET DR WORK ZONE ADVANCE NOTICE SHORELINE DR TO SHADYWOOD RD	(4)	96	х	84	(3)
2	1	G20-X2	BLACK ON ORANGE	SUNSET DR WORK ZONE ADVANCE NOTICE SHADYWOOD RD TO SHORELINE DR	(4)	96	х	84	(3)
		M3-2	WHITE ON BLUE	EAST		24	х	12	
3 1		(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
	M4-8A BLACK ON ORANGE END DETOUR			24	х	18			
		M3-2	WHITE ON BLUE	EAST		24	х	12	
4 1		(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
	M4-9MATL BLACK ON ORANGE DETOUR ADVANCE 90° TURN ARROW LEFT			30	х	24			
	M3-2 WHITE ON BLUE EAST					24	х	12	
5 1		(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
		M4-9ML90	BLACK ON ORANGE	DETOUR HORIZONTAL 90° SINGLE ARROW LEFT		30	х	24	1
		M3-2	WHITE ON BLUE	EAST		24	х	12	
6	4	(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
		M4-9MT	BLACK ON ORANGE	DETOUR VERTICLAL SINGLE ARROW UP		30	х	24	
7 1		M3-4	WHITE ON BLUE	WEST		24	х	12	
		(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
		M4-8A	BLACK ON ORANGE	END DETOUR		24	х	18	
		M3-4	WHITE ON BLUE	WEST		24	х	12	
8 1 (6)		(6)	BLACK ON ORANGE	SUNSET DR	30	х	12	(3)	
		M4-9MATR	BLACK ON ORANGE	DETOUR ADVANCE 90° TURN ARROW RIGHT	30	х	24		
		M3-4	WHITE ON BLUE	WEST		24	х	12	
9	1	(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
		M4-9MR90	BLACK ON ORANGE	DETOUR HORIZONTAL 90° SINGLE ARROW RIGHT		30	х	24	
		M3-4	WHITE ON BLUE	WEST		24	х	12	
10	3	(6)	BLACK ON ORANGE	SUNSET DR		30	х	12	(3)
		M4-9MT	BLACK ON ORANGE	DETOUR VERTICLAL SINGLE ARROW UP		30	х	24	
		M4-10L	BLACK ON ORANGE	DETOUR ARROW LEFT		48	х	18	(=)
11	1	R11-4	BLACK ON WHITE	ROAD CLOSED TO THRU TRAFFIC		60	х	30	(7)
	_	M4-10R	BLACK ON ORANGE	DETOUR ARROW RIGHT		48	х	18	(=)
12	1	R11-4	BLACK ON WHITE	ROAD CLOSED TO THRU TRAFFIC		60	х	30	(7)
4.0		W20-3	BLACK ON ORANGE	ROAD CLOSED AHEAD	(5)	48	х	48	(2)
13	2	(6)	BLACK ON ORANGE	SUNSET DR	(5)	30	х	12	(3)
4.4		W20-2	BLACK ON ORANGE	DETOUR AHEAD	(5)	48	х	48	(2)
14	2	(6)	BLACK ON ORANGE	SUNSET DR	(5)	30	х	12	(3)

SPECIFIC NOTE(S):

- (1) THE QUANTIES SHOWN WITHIN THIS TABULATION ARE FOR INFORMATION ONLY.
- (2) ALL SIGNING SHALL USE DG3 SIGN SHEETING.
- (3) POSTS OR PORTABLE TUBLAR METAL FRAME.
- (4) INSTALL A MINIMUM OF 7 DAYS IN ADVANCE OF ROAD CLOSURE, AS DIRECTED BY THE ENGINEER, DATE ON SIGN TO BE DETERMINED BY THE ENGINEER.
- (5) WITH HIGH INTENSITY FLASHING LIGHT.
- (6) SEE TRAFFIC CONTROL DETAIL SHEETS.
- (7) SIGN MOUNTED ON 8' TYPE III BARRICADE.

	TRAFFIC CONTROL TABULATION	N		
ITEM NO.	ITEM DESCRIPTION	ITEM	TOTAL	NOTES
2563	TAFFIC CONTROL	LUMP	1	
2563	TRAFFIC CONTROL SUPERVISOR	LUMP	1	
2563	PORTABLE CHANGEABLE MESSAGE	UNIT DAY	40	

QUANTITY	DESCRIPTION
(1)	
3	8' TYPE III BARRICADE LEFT
4	8' TYPE III BARRICADE RIGHT
14	FLASHING LIGHT
4	HIGH INTENSITY FLASHING LIGHT

	7	1	
He	nn	ер	in

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.

45896 //
LICENSE NO. DATE

DESIGN BY:
CAD BY:
CHECKED BY:
LAST REVISION:

A. CHALUPSKY
R. ALLERS

TRAFFIC CONTROL DETOUR TABULATION

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000
SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

179 329

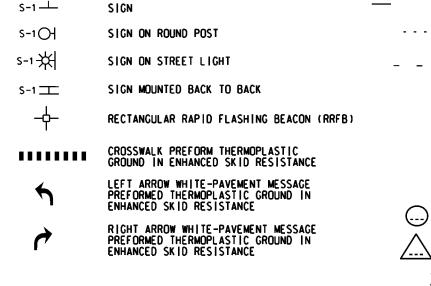
RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER

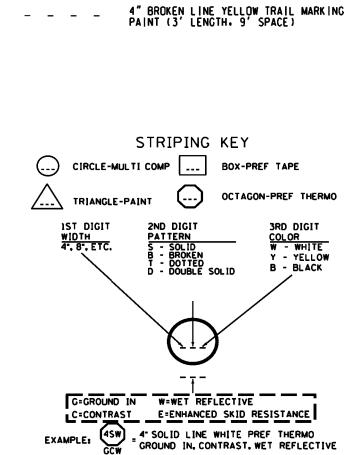
		CSAH 51 SIGNING AND STRIPING TABULATION				Х
ITEM NO	NOTES	ITEM DESCRIPTION	UNIT	PROJECT TOTAL	YELLOW	WHITE
2102		PAVEMENT MARKING REMOVAL	SQ FT	396		396
2104		REMOVE SIGN TYPE C	EACH	92		
2104		SALVAGE SIGN TYPE C	EACH	34		
2104		INSTALL SIGN TYPE C	EACH	34		
2564		SIGN PANELS TYPE C	SQ FT	505.33		
2582	4	4" BROKEN LINE PAINT	LIN FT	36	36	
2582	3	6" SOLID LINE MULTI COMP GR IN	LIN FT	8436	57	8379
2582	3	6" DOTTED LINE MULTI COMP GR IN	LIN FT	52		52
2582	2	4" DBLE SOLID LINE MULTI COMP GR IN	LIN FT	5070	5070	
2582	4	24" SOLID LINE PREF THERMO GR IN	LIN FT	232	232	
2582	1,3	PAVT MSSG PREF THERMO ESR GR IN	SQ FT	105		
2582	3	CROSSWALK PREF THERMO ESR GR IN	SQ FT	774		774

- EACH LEFT OR RIGHT ARROW IS APPROXIMATELY 15 SF. 75 SF OF LEFT ARROW THERMOPLASTIC GROUND IN. 30 SF OF RIGHT ARROW THERMOPLASTIC GROUND IN.
- YELLOW COLOR.
- WHITE COLOR. (3)
- YELLOW BROKEN LINE TRAIL MARKING PAINT TO BE USED ON BIKE TRAILS AS SHOWN IN THE PLAN. PAID FOR AS 4" BROKEN LINE PAINT.

	STANDARD PLANS
NUMBER	DESCRIPTION
5-297.701	STANDARD SIGN PLACEMENT
5-297.718	SQUARE TUBE SIGN MOUNTING DETAILS (3 SHEETS)
5-297.721	THREE WALL BASE - FOR 1-3/4" SQUARE TUBE RISER POST
5-297 722	FIN BASE FOR 2" SOLIARE-TLIBE RISER POST IN SOII

SYMBOLS & MATERIALS LEGEND





BROKEN LINE-40' CYCLE (10' LINE, 30' GAP)

DOTTED LINE-8' CYCLE (2' LINE, 6' GAP). UNLESS SHOWN OTHERWISE IN THE PLAN

INDEX

SHEET NO.	DESCRIPTION
200 - 211	PERMANENT SIGNING AND STRIPING DETAIL SHEETS
212 - 216	PERMANENT SIGNING TABULATION SHEETS
217 - 223	INPLACE SIGNING PLAN SHEETS
224 - 230	PERMANENT SIGNING AND STRIPING PLAN SHEETS



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45896

LICENSE NO.

DATE

A. CHALUPSKY DESIGN BY: CAD BY: A. CHALUPSKY CHECKED BY: R. ALLERS

PERMANENT SIGNING AND STRIPING DETAIL SHEET

SHEET

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

LAST REVISION:

GENERAL NOTES	

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MNDOT "TRAFFIC ENGINEERING MANUAL" AND THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD).

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. THE CONTRACTOR WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS, LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

INTERSECTION MARKINGS, LEGENDS, AND SYMBOLS MAY REQUIRE USE OF WIDER CUTTING HEADS TO REDUCE THE NUMBER OF RIDGES FORMED BY MULTIPLE PASSES WITH THE CUTTING HEAD. THE HEIGHT OF THE RIDGES SHOULD BE LESS THAN 20% OF THE GROOVE DEPTH. SMALLER EQUIPMENT MAY BE REQUIRED TO ACHIEVE A GROOVE AT THE RECOMMENDED DEPTH WHEN WORKING NEAR OBSTACLES SUCH AS CURBS OR MEDIANS.

ALL PAVEMENT MARKING SYMBOLS AND SIGNS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. ANY NECESSARY REARRANGEMENT SHALL BE AS DIRECTED BY THE ENGINEER.

ALL SIGNING SHALL BE FHA TYPE XI.

ALL SIGNS SHALL HAVE HOLES PUNCHED ONLY FOR THE NUMBER OF POSTS REQUIRED.

MOUNTING HEIGHT TO THE BOTTOM EDGE OF THE LOWEST SIGN SHALL BE 7.0 FOOT EXCEPT AS FOLLOWS: OBJECT MARKERS (OM1-1) AND SNOW PLOW MARKERS (X3-5) 5.0 FOOT OBJECT MARKER (OM1-1) IF MOUNTED BELOW A KEEP RIGHT 4.0 FOOT

ALL KEEP RIGHT SIGNS (R4-7) SHALL HAVE REAR DELINEATION AS SHOWN IN THE REAR DELINEATION DETAIL AND AN OBJECT MARKER (OM1-1) MOUNTED BELOW THE KEEP RIGHT SIGN.

ALL SIGNS SHOWN IN THE MN MUTCD WITH OPTIONAL FLUORESCENT YELLOW-GREEN BACKGROUND COLOR SHALL USE THE FLUORESCENT YELLOW-GREEN BACKGROUND COLOR.

— SIGNING TYPE C —

ALL INPLACE SIGNS WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED INPLACE. REMOVED OR SALVAGED AND REINSTALLED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL REMOVED SIGNS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

COUNTY ROUTE MARKERS (M1-6M) SHALL HAVE HENNEPIN AND COUNTY YELLOW COLORED TEXT AND YELLOW ROUTE NUMBERS ON BLUE BACKGROUND.

PERMANENT STRIPING AND PAVEMENT MARKINGS -

ALL WHITE LONGITUDINAL LINES SHALL BE 6 INCH WIDE MULTI COMPONENT GROUND IN (GROOVED). ALL YELLOW LONGITUDINAL LINES SHALL BE 4 INCH WIDE MULTI COMPOENT GROUND IN (GROOVED) EXCEPT YELLOW EDGE LINES WHICH SHALL BE 6 INCH. UNLESS NOTED.

A BROKEN WHITE LINE SHALL BE 6 INCH WIDE AND A BROKEN YELLOW LINE SHALL BE 4 INCH WIDE. BOTH SHALL BE MULTI COMPOENT GROUND IN (GROOVED). BOTH SHALL HAVE A 10 FOOT LENGTH AND 30 FOOT GAP.

A TURN LANE EXTENSION DOTTED LINE SHALL BE A 6" WIDE MULTI COMPONENT GROUND IN (GROOVED) LINE AND SHALL HAVE A 2' LENGTH AND 6' GAP.

CROSSHATCHING (HASH MARKS) SHALL BE 24 INCHES WIDE THERMOPLASTIC GROUND IN (GROOVED) LINE. UNLESS NOTED. INSTALLED AT 45 DEGREE WITH 20 FOOT PERPENDICULAR GAP.

PERMANENT PAVEMENT MARKINGS. STRIPING AND MESSAGES SHALL NOT BE PLACED ONTO A CONCRETE GUTTER.

THE INSTALLERS OF ALL THERMOPLASTIC OR TAPE MATERIALS MUST CARRY A CARD CERTIFYING THAT THEY HAVE ATTENDED A TRAINING SESSION THAT ADDRESSES SURFACE PREPARATIONS AND ALL APPLICATION REQUIREMENTS AND TECHNIQUES NECESSARY FOR SUCCESSFUL APPLICATIONS.

THERMOPLASTIC OR TAPE MATERIAL SHALL HAVE A SEALER APPLIED THAT IS IN ACCORDANCE WITH ALL OF THE MANUFACTURE'S SPECIFICATIONS AFTER THE GROUND IN PROCESS (GROOVED) AND BEFORE ANY THERMOPLASTIC OR TAPE MATERIAL IS APPLIED. AS DIRECTED BY THE ENGINEER.

CROSSWALK MARKINGS SHALL WHERE POSSIBLE CONNECT PEDESTRIAN CURB RAMPS WITH A STRAIGHT LINE. AT 90° TO THE ROADWAY AND BE PLACED IN FRONT OF MEDIAN NOSES.

ALL THERMOPLASTIC SHALL HAVE BEADS EMBEDDED IN THE FACTORY.

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.

45896

LICENSE NO

DATE

A. CHALUPSKY A. CHALUPSKY LAST REVISION:

PERMANENT SIGNING AND STRIPING DETAIL SHEET

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005 SHEET

PWZ805

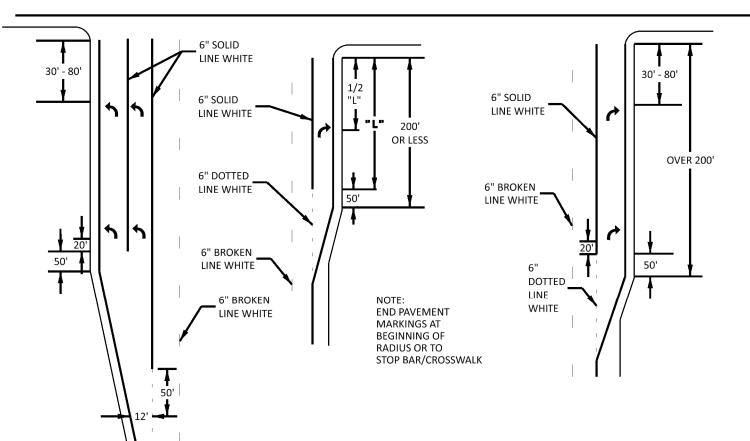
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CHECKED BY:

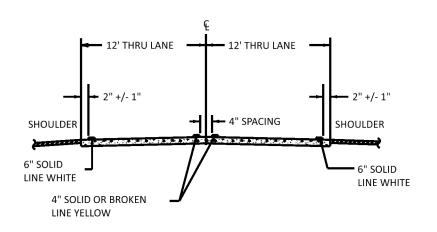
CAD BY:

TURN LANE WITH ARROW MESSAGE AND DOTTED LINE EXTENSION

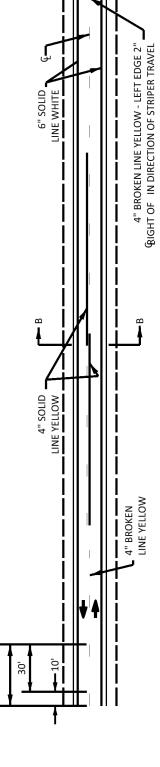
LEFT TURN LANE RIGHT TURN LANE TURN LANE THRU LANE THRU LANE TURN LANE 6" SOLID 6" SOLID LINE WHITE LINE WHITE 6" SOLID 6" BROKEN LINE WHITE LINE WHITE 6" SOLID 6" SOLID LINE YELLOW LINE WHITE 2" +/- 1"



TWO-LANE, TWO-WAY



SECTION B-B





I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A

45896 LICENSE NO. DESIGN BY: CAD BY: CHECKED BY:

A. CHALUPSKY A. CHALUPSKY R. ALLERS LAST REVISION:

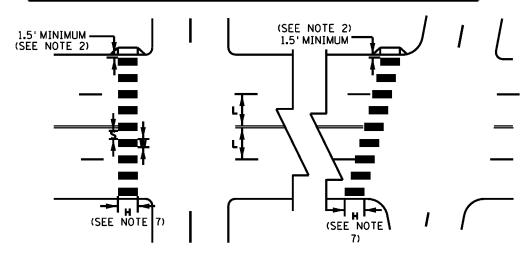
PERMANENT SIGNING AND STRIPING DETAIL SHEET

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

6" DOTTED LINE WHITE

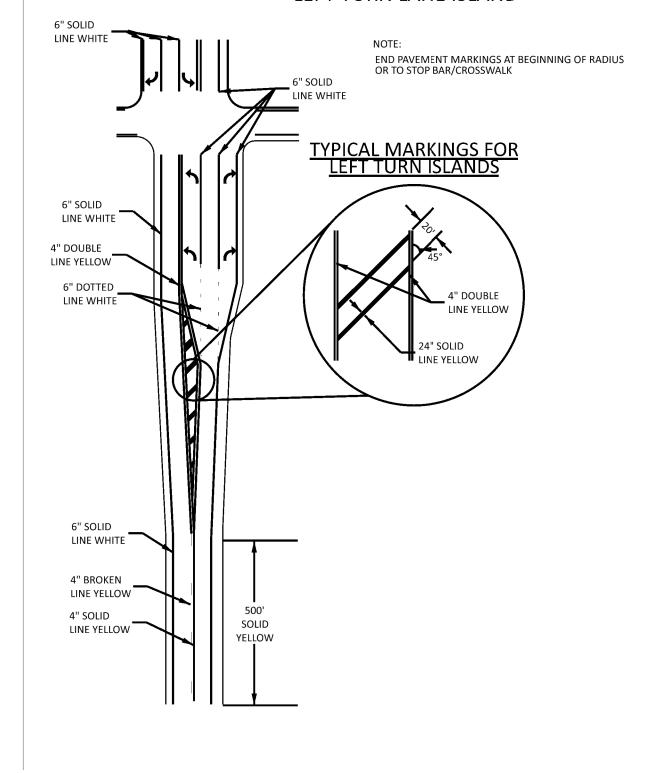
PEDESTRIAN CROSSWALK MARKINGS

(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREA	(S) WIDTH OF SPACE	ALTERNATE (W) WIDTH OF PAINTED AREA	ALTERNATE (S) WIDTH OF SPACE
9·	2 . 0°	2.5°	_	_
10,	2.5°	2.5°	2.0°	3.0*
111.	2.5°	3.0*	2.0°	3.5°
12*	3.0	3.0	2.5°	3.5*
13.	3.0	3.5	_	_



- 1. PAINTED AREAS TO BE CENTERED ON CENTERLINE AND LANE LINES.
- 2. A MINIMUM OF 1.5 FT. CLEAR DISTANCE SHALL BE LEFT ADJACENT TO THE CURB FACE. IF LAST PAINTED AREA FALLS INTO THIS DISTANCE IT MUST BE OMITTED.
- 3. ON TWO LANE TWO WAY STREETS, USE SPACING SHOWN FOR AN 11 FT. INSIDE LANE.
- 4. FOR DIVIDED ROADWAYS, ADJUSTMENTS IN SPACING OF THE BLOCKS SHOULD BE MADE IN THE MEDIAN SO THAT THE BLOCKS ARE MAINTAINED IN THEIR PROPER LOCATION ACROSS THE TRAVELED PORTION OF THE ROADWAY.
- 5. AT SKEWED CROSSWALKS, THE BLOCKS ARE TO REMAIN PARALLEL TO THE LANE LINES AS SHOWN.
- 6. THE BLOCKS SHALL BE PLACED SO THAT THEY ARE NOT LOCATED IN THE WHEEL PATH OF THE VEHICLES.
- 7. THE BLOCKS SHALL BE A MINIMUM OF 6'LONG AND AT LEAST AS LONG AS THE TRUNCATED DOMES, FOR FANNED TRUNCATED DOMES THE BLOCKS SHALL BE AT LEAST AS LONG AS THE APPROACHING SIDEWALK OR SHARED USE PATH.
- 8. THE ALTERNATE (W) AND (S) MAY BE USED WHEN BLOCKS LONGER THAN 6'(H) ARE USED.

LEFT TURN LANE ISLAND





Details 4 [Sheet]

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> 45896 LICENSE NO.

DESIGN BY: CAD BY: CHECKED BY:

LAST REVISION:

A. CHALUPSKY A. CHALUPSKY R. ALLERS

PERMANENT SIGNING AND STRIPING DETAIL SHEET CSAH 51 / HENNEPIN COUNTY PROJECT 2182000

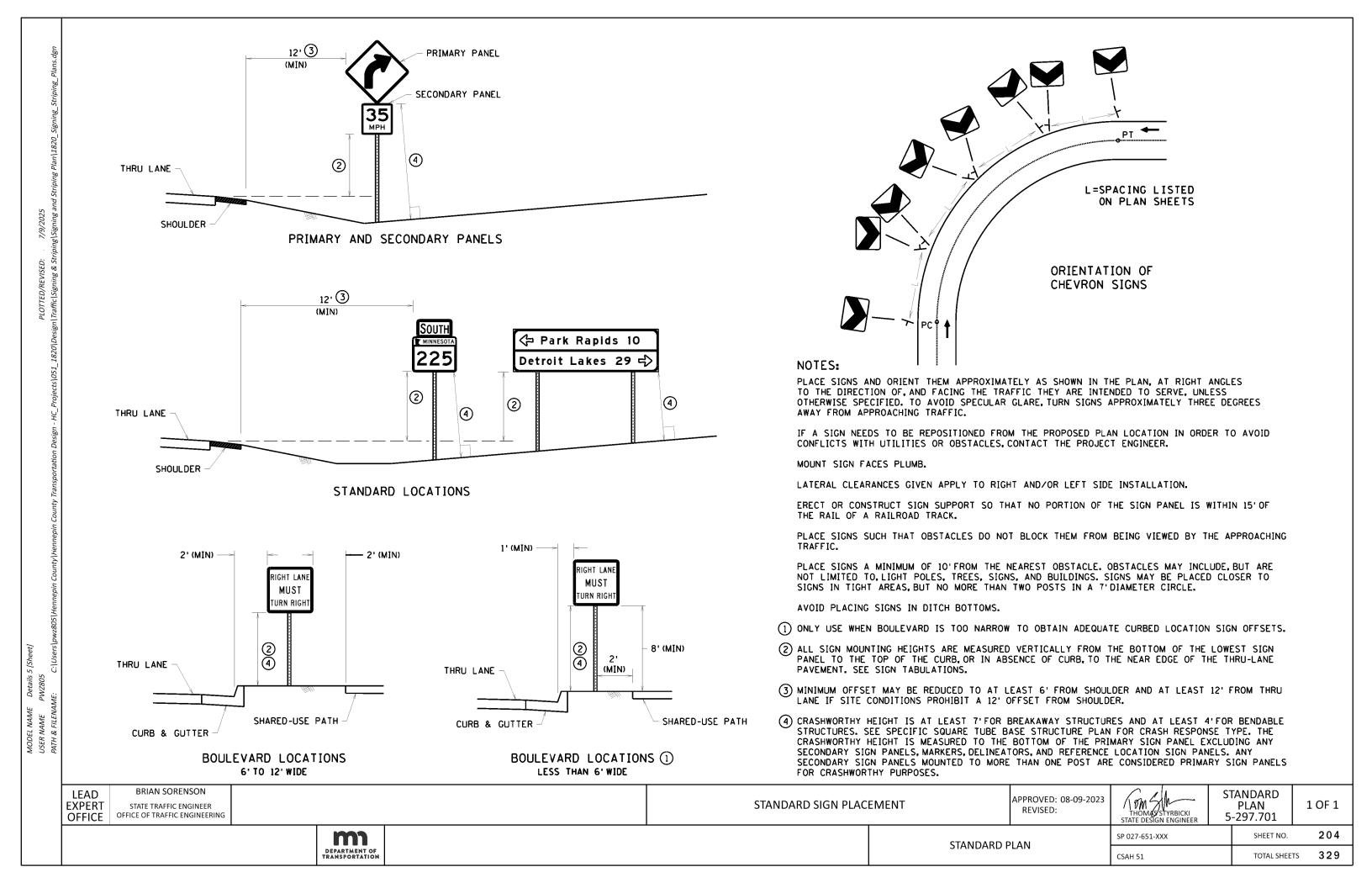
SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

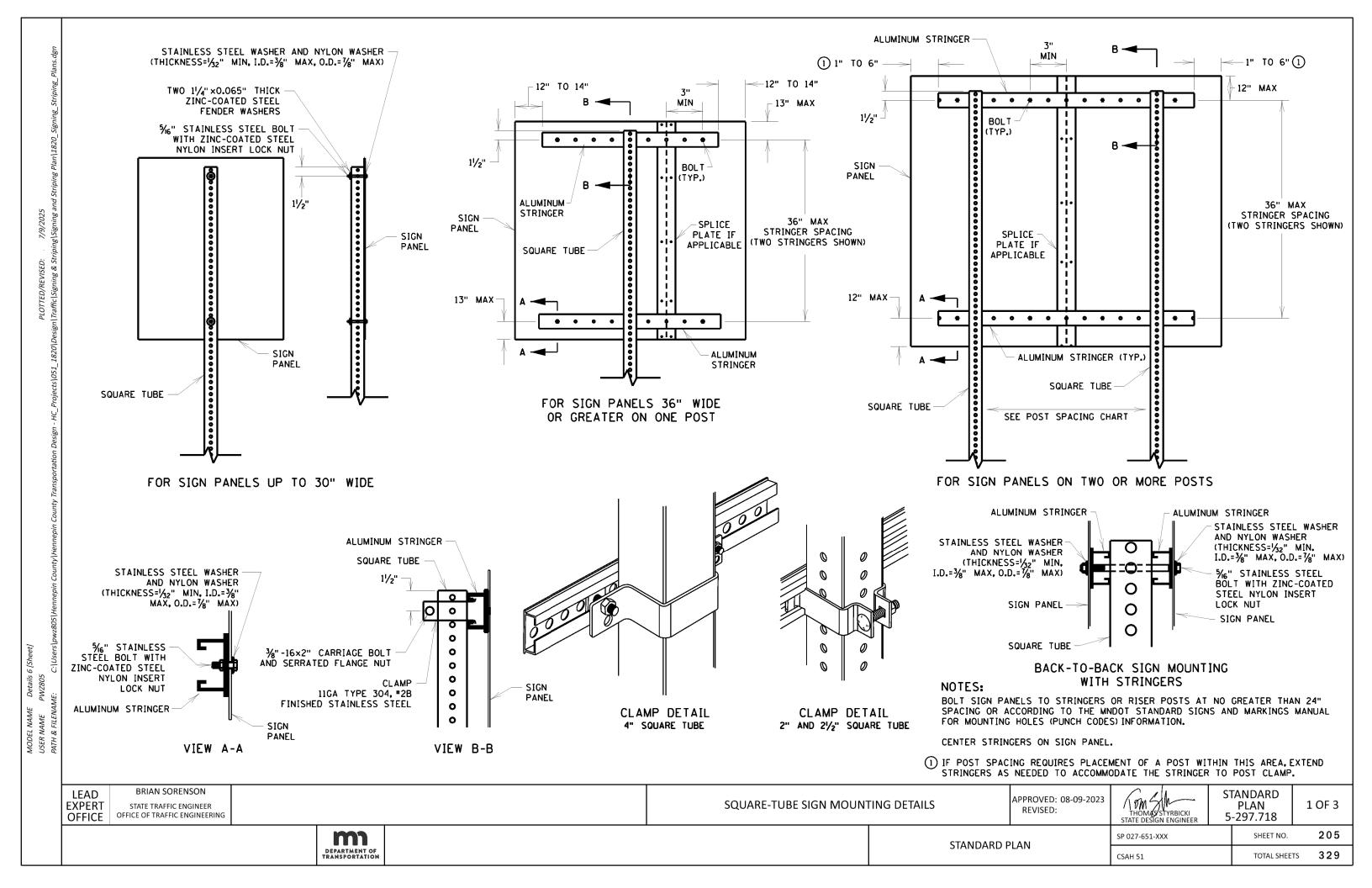
203 329

SHEET

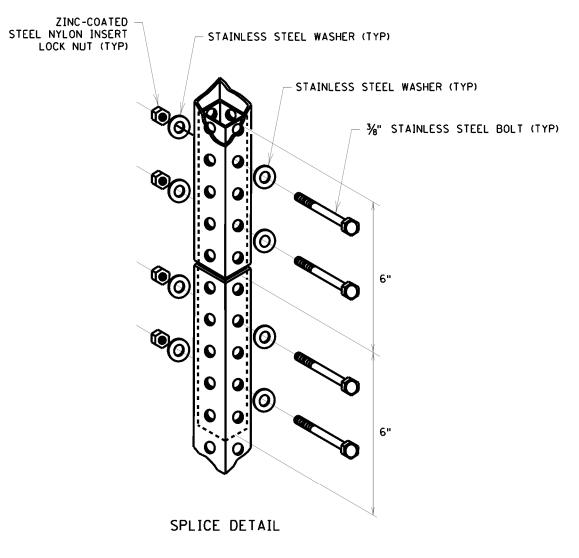
PWZ805

RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER









PANEL	_				ST SP		_
WIDTH	2 POSTS	7 POSTS	4 POSTS	5 POSTS	6 POSTS	7 POSTS	POS
(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	CIN
42	15						
48	21						
54	30						
60	36						
66	36						
72	42						
78	42						
84	48						
90	48	42					
96	48	42					
102	54	42					
108	54	42					
114	60	42					
120	60	48					
126	66	48					
132	66	48	42				
138	72	48	42				
144	72	48	42				
150	78	54	42				
156	78	54	42				
162	84	54	42				
168	84	60	48				
174	90	60	48	42			
180	90	60	48	42			
186	96	66	48	42			
192	96	66	48	42			
198	102	66	54	42			
204	102	72	54	42			
210	108	72	54	42			
216	108	72	54	48	42		
222	114	78	60	48	42		
228	114	78	60	48	42		
234	120	78	60	48	42		
240	120	84	60	48	42		
246		84	66	54	42		
252		84	66	54	42		
258		90	66	54	42	42	
264		90	66	54	48	42	
270		90	72	54	48	42	
276		96	72	60	48	42	
282		96	72	60	48	42	
288		96	72	60	48	42	
294		102	78	60	54	42	
300		102	78	60	54	42	42
306		102	78	66	54	42	42
312		108	78	66	54	48	42
318		108	84	66	54	48	42
324		108	84	66	54	48	42
330		114	84	66	60	48	42
336		114	84	72	60	48	42

DISTANCES ARE CENTER-TO-CENTER OF POSTS

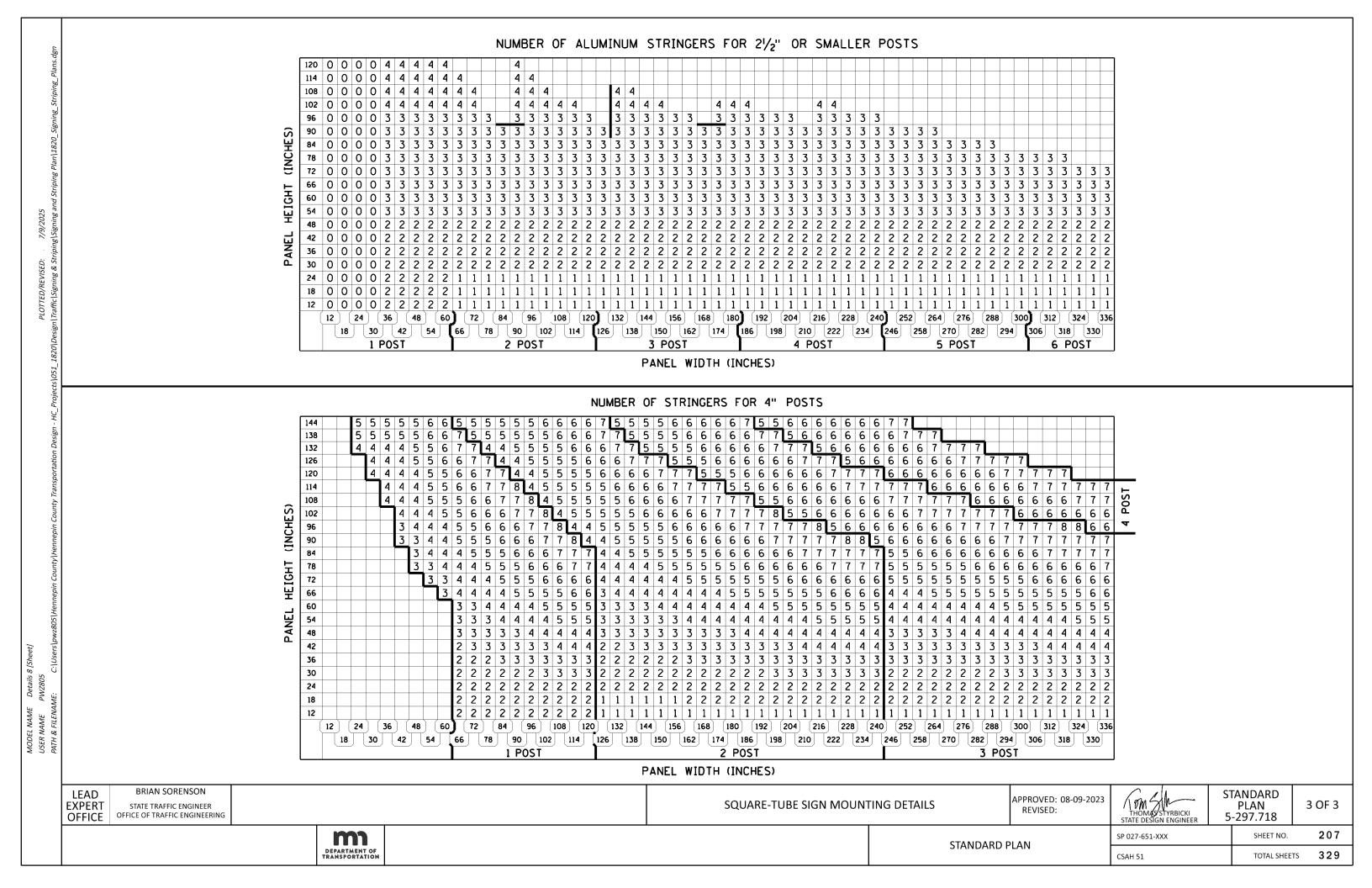
NOTES:

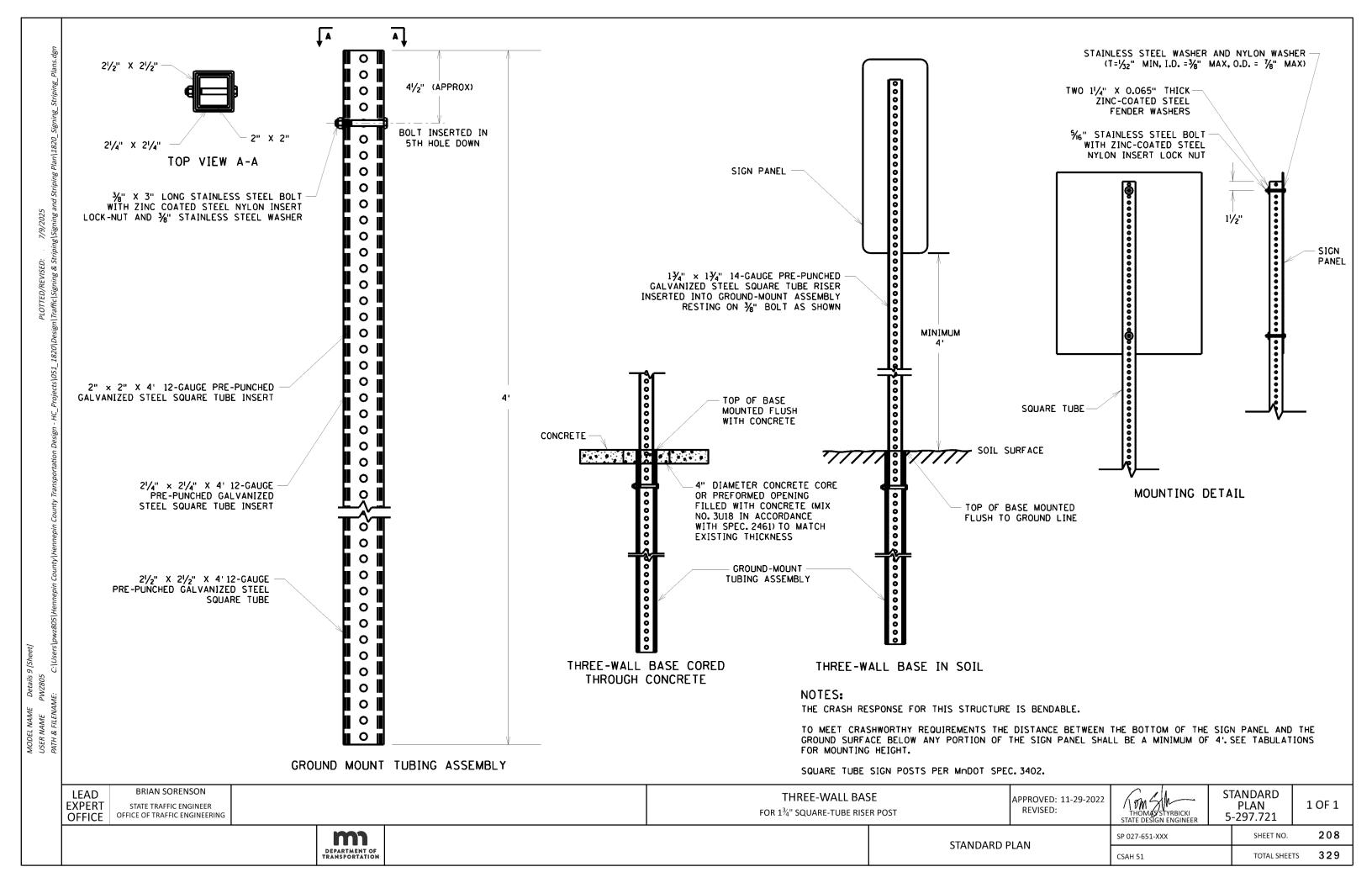
NO MORE THAN ONE SPLICE PER POST.

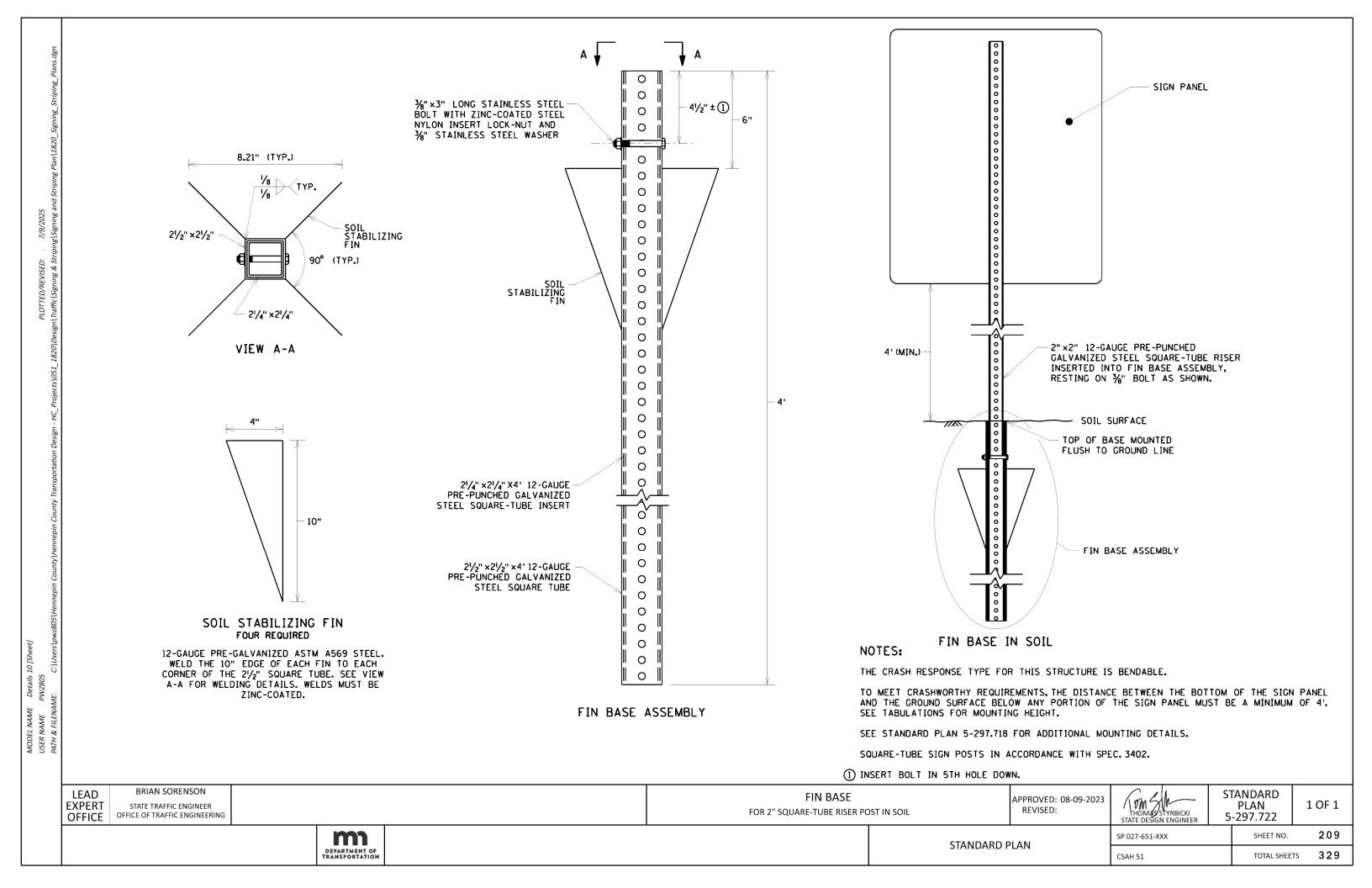
WHEN USED, THE SPLICE MUST BE PLACED AT LEAST 8' ABOVE GROUND. THE PREFERRED PLACEMENT LOCATION IS BEHIND THE SIGN PANEL.

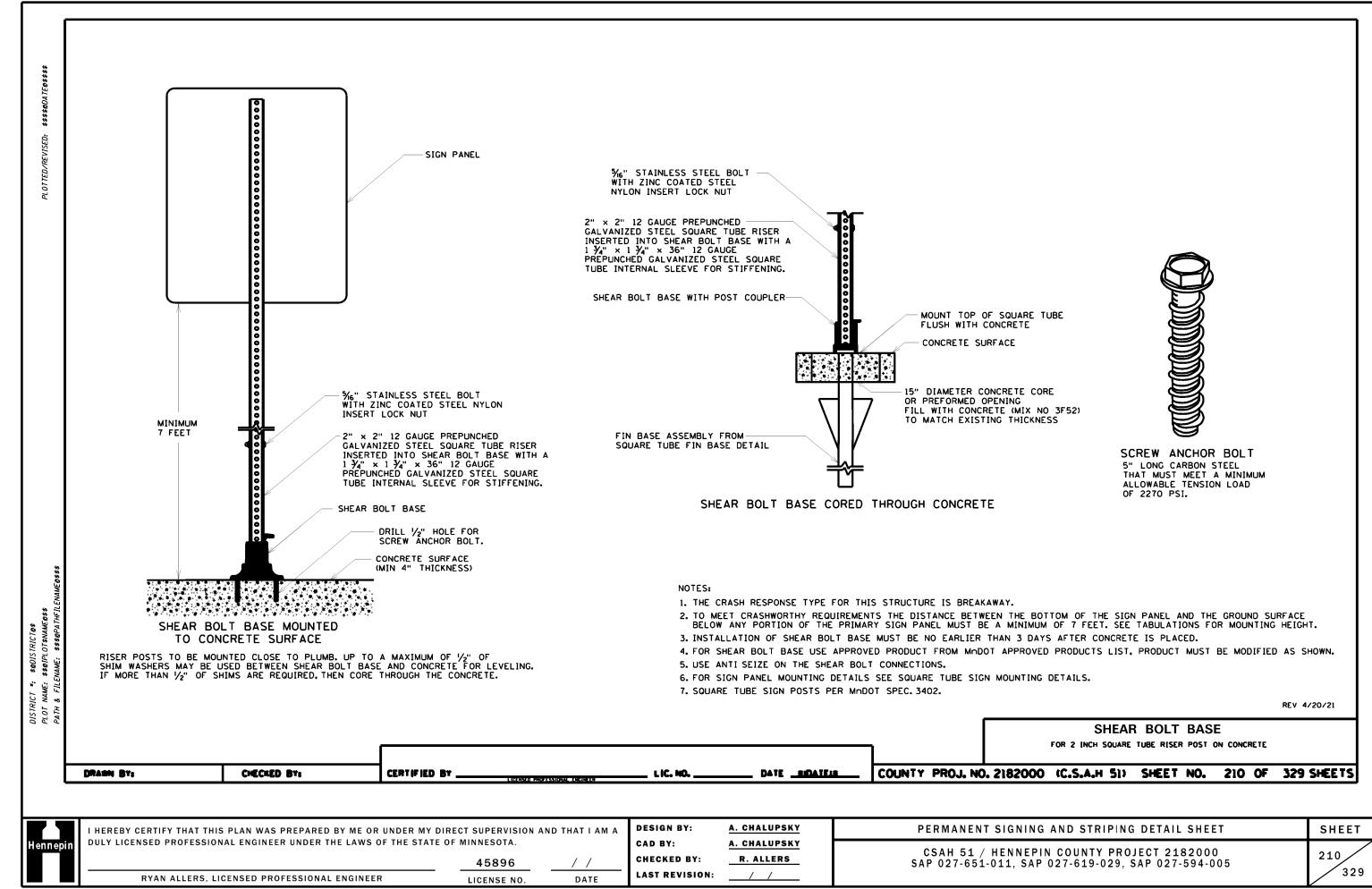
INTERIOR POST STUD SHALL BE ONE SIZE SMALLER FOR TIGHT FIT. IF RISER POST IS $2\frac{1}{2}$, INTERIOR POST IS $2\frac{3}{16}$. IF RISER POST IS 2", INTERIOR POST IS $1\frac{3}{4}$ ".

LEAD BRIAN SORENSON EXPERT STATE TRAFFIC ENGINEER OFFICE OF TRAFFIC ENGINEERING	SQUARE-TUBE SIGN MOUNT	ING DETAILS	G DETAILS APPROVED: 08-09-2023 REVISED:		STANDARD PLAN 5-297.718	2 OF 3
m		STANDARD F	DI A NI	SP 027-651-XXX	SHEET NO.	206
DEPARTMENT OF TRANSPORTATION		STANDARD	LAN	CSAH 51	TOTAL SHEE	rs 329

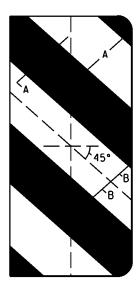








REAR DELINEATION FOR R4-7 (NO SCALE)



REAR (DELINEAT: DIMENS		R4-7
SIZE	12"x 30"	15"x 36"	18"x 48"
MOUNT ON	24"x 30"	30"× 36"	36"x 48"
RADIUS	1.50"	1.88"	2.25"
Α	5.00"	6.00"	6.00"
В	2.50"	3.00"	3.00"
•			·

COLOR: YELLOW & BLACK FHA TYPE X1 SIGN SHEETING ONLY.

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.

45896 RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER LICENSE NO. DATE DESIGN BY: A. CHALUPSKY CAD BY: A. CHALUPSKY CHECKED BY: R. ALLERS LAST REVISION:

PERMANENT SIGNING AND STRIPING DETAIL SHEET CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

			AND DEI	LINEATOR	R / MAR									Y
		PANEL				SUPPORT						SALVAGE	INSTALL	DELINEATO
SIGN NUMBEI	R PANEL CODE		SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	REMOVE SIGN	SIGN	SALVAGE SIGN	INSTALL SIGN	SIGN PANEL	SIGN PANEL	/MARKE PANEL
	3022		INCHES	FEET	-	INCHES	1 0010	EACH	SQ FT	EACH	EACH	EACH	EACH	EACH
	R4-7	KEEP RIGHT	24 x 30			_		1	5.00	,				
S-1	(2)	REAR DELINEATION	12 x 30	7	SQ-CONC	2	1		4.00					
	OM1-1	TYPE 1 OBJECT MARKER	18 x 18			_		1	2.25					
S-2	R5-1	DO NOT ENTER		7	SQ-CONC	2	1	1						
	M3-2	EAST (YELLOW ON BLUE)	24 x 12						2.00					
S-3	M1-6M	HENNEPIN COUNTY 51 (YELLOW ON BLUE)	24 x 24	7	SQ-SOIL	2	1		4.00					
	R8-3	NO PARKING	24 x 24						4.00					
S-4	W11-15A	TRAIL CROSSING		7	SQ-CONC	2	1	1 1						
	R8-3	NO PARKING						_						
S-5	R1-1	STOP	36 x 36	7	SQ-SOIL	2	1		9.00					
	R3-4	NO U-TURN	24 x 24	_		_			4.00					
S-6	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1	1	5.00					
	OM1-1	OBJECT MARKER (YELLOW ON YELLOW)	18 x 18	<u> </u>		_			2.25					
S-7	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	36 x 36	7	SQ-SOIL	2	1		9.00					
	W16-9P	AHEAD PLAQUE (BLACK ON FLUORESCENT YELLOW-GREEN)	24 x 12	7	SQ-SOIL	2	11		2.00					
S-8	R8-3	NO PARKING	24 22	7	SQ-SOIL	2	1	1						
S-9	R2-1	SPEED LIMIT 30	24 x 30	7	SQ-SOIL	2	1	1	5.00					
	R8-3	NO PARKING	24 x 24	-		_		_	4.00					
S-10	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1	1						
	OM1-1	OBJECT MARKER (YELLOW ON YELLOW)	18 x 18		-									
S-11	W11-15A	TRAIL CROSSING		7	SQ-SOIL	2	1	1						
	W16-7PL	DOWN ARROW LEFT PLAQUE (BLACK ON FLUORESENT YELLOW-GREEN)					4					1	4	
S-12	DESIGN	NO MOTOR VEHICLES		5 5	SQ-SOIL	2	1					1	1	
S-13	DESIGN	STOP	24 20	5	SQ-SOIL	2	1		F 00	`		1	T	
C 1 1	R4-7	KEEP RIGHT	24 x 30		CO CONC	2	1		5.00					
S-14	(2)	REAR DELINEATION	12 x 30	7	SQ-CONC	2	1		4.00					
	OM1-1	TYPE 1 OBJECT MARKER	18 x 18						2.25			1	1	
	DESIGN DESIGN	NORTHERN AVE NORTHERN AVE										1	1	
C 1F	DESIGN	SUNSET DR		7	SQ-SOIL	2	1					1	1	
S-15	DESIGN	SUNSET DR		/	SQ-SUIL	2	1					1	1	
	R1-1	STOP	36 x 36					1	9.00			1	<u> </u>	
S-16	R8-3	NO PARKING	30 X 30	7	SQ-SOIL	2	1	1	9.00					
2-10	DESIGN	4205-4250		/	3Q-3UIL		I	1				1	1	
	DESIGN	4205-4250		-								1	1	
	DESIGN	SUNSET DR		\dashv								1	1	
S-17	DESIGN	SUNSET DR		7	R	2	1					1	1	
	DESIGN	WEST ARM DR PRIVATE		\dashv								1	1	
	DESIGN	WEST ARM DR PRIVATE		-								1	1	
S-18	R1-1	STOP	36 x 36	7	SQ-SOIL	2			9.00			1		

L								
		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DI	RECT SUPERVISION A	ND THAT I AM A	DESIGN BY:	A. CHALUPSKY	PERMANENT SIGNING TABULATION SHEET	SHEET
	Hennepin	DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE	OF MINNESOTA.		CAD BY:	A. CHALUPSKY	CSAH 51 / HENNEPIN COUNTY PROJECT 2182000	
			45896	/ /	CHECKED BY:	R. ALLERS	SAP 027-651-011, SAP 027-619-029, SAP 027-594-005	212
		RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER	LICENSE NO.	DATE	LAST REVISION:	//		329

		SIGN	AND DEI	LINEATOR	/ MAR	KER								Υ
		PANEL				SUPPORT						SALVAGE	INSTALL	DELINEATOR
SIGN NUMBER	PANEL CODE		SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	REMOVE SIGN	SIGN	SALVAGE SIGN	INSTALL SIGN	SIGN PANEL	SIGN PANEL	/MARKER PANEL
			INCHES	FEET		INCHES		EACH	SQ FT	EACH	EACH	EACH	EACH	EACH
S-19	W11-15A W16-7PL	TRAIL CROSSING DOWN ARROW LEFT PLAQUE (BLACK ON FLUORESENT YELLOW-GREEN)		7	SQ-SOIL	2	1	1						
S-20	DESIGN	NO MOTOR VEHICLES		5	SQ-SOIL	2	1					1	1	
S-21	DESIGN	DAKOTA RAIL REGIONAL TRAIL ST. BONIFACIUS/WAYZATA					1					1	1	
S-22	DESIGN	STOP		5	SQ-SOIL	2	1					1	1	
S-23	R8-3	NO PARKING		7	SQ-SOIL	2	1	1						
S-24	M2-1 M1-6M	JCT (YELLOW ON BLUE) HENNEPIN COUNTY 15 (YELLOW ON BLUE)	21 x 15 24 x 24	7	SQ-CONC	2	1		2.19 4.00	`				
	R8-3	NO PARKING	24 x 24						4.00					
S-25	R3-7L	LEFT LANE MUST TURN LEFT	30 x 30	7	SQ-SOIL	2	1	1	6.25					
(1)	DESIGN DESIGN	NORTHERN AVE NORTHERN AVE										1	1 1	
(1) S-26	DESIGN DESIGN	SUNSET DR SUNSET DR		7	SQ-SOIL	2	1					1	1	
	R1-1	STOP	36 x 36	-				1	9.00				-	
(4)	R3-4	NO U-TURN	24 x 24					_	4.00					
(1) S-27	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1	1	5.00					
S-28	OM1-1 R3-7R	OBJECT MARKER (YELLOW ON YELLOW) RIGHT LANE MUST TURN RIGHT	18 x 18 30 x 30	7	SQ-SOIL	2	1	1	2.25 6.25					
	R8-3 R3-7L	NO PARKING LEFT LANE MUST TURN LEFT	24 x 24 30 x 30						4.00 6.25					
1) S-29	R3-7L	LEFT LANE MUST TURN LEFT	30 x 30	7	SQ-SOIL	2	1	1	6.25					
S-30	R6-1L	ONE WAY LEFT		7	SQ-CONC	2	1	1						
S-31	M1-6M M6-4	HENNEPIN COUNTY 15 (YELLOW ON BLUE) DOUBLE ARROW (YELLOW ON BLUE)	24 x 24 21 x 15	7	SQ-CONC	2	1	1	4.00 2.19					
S-32	DESIGN DESIGN	ADOPT A HIGHWAY NO PARKING HERE TO CORNER		7	SQ-SOIL	2	1	1				1	1	
	R8-3	NO PARKING	24 x 24		-				4.00					
S-33	DESIGN	NO PARKING BEGINS HERE		7	SQ-SOIL	2	1	1						
S-34	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00			_		
(1) S-35	DESIGN DESIGN	MAPLETON AVE MAPLETON AVE		7	R	2	1					1 1	1 1	
(1)	DESIGN DESIGN	SUNSET DR SUNSET DR		'	N		1					1	1 1	
S-36	R1-1	STOP	36 x 36	7	SQ-SOIL	2	1	1	9.00			_		·
S-37	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
S-38	R8-3	NO PARKING		7	SQ-SOIL	2	1	1						
S-39	DESIGN	NO PARKING ENDS HERE		7	SQ-SOIL	2	1	1						
S-40	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
S-41	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	36 x 36	7	SQ-SOIL	2	1		9.00					
3 71	W16-9P	AHEAD PLAQUE (BLACK ON FLUORESCENT YELLOW-GREEN)	24 x 12	7	SQ-SOIL	2	1		2.00					

	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DI	RECT SUPERVISION	AND THAT I AM A	DESIGN BY:	A. CHALUPSKY	PERMANENT SIGNING TABULATION SHEET	SHEET
epin	DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE (OF MINNESOTA.		CAD BY:	A. CHALUPSKY	OCAL E4 / HENNERIN COUNTY PROJECT 0400000	
		45896	/ /	CHECKED BY:	R. ALLERS	CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005	213
	RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER	LICENSE NO.	DATE	LAST REVISION:	/		329

			SIGN AND DE	LINEATOR	R / MAR	KER								Υ
		PANEL				SUPPORT						SALVAGE	INSTALL	DELINEATO
SIGN NUMBER	PANEL CODE		SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	REMOVE SIGN	SIGN	SALVAGE SIGN	INSTALL SIGN	SIGN PANEL	SIGN PANEL	/MARKER PANEL
			INCHES	FEET		INCHES		EACH	SQ FT	EACH	EACH	EACH	EACH	EACH
	W11-15A	TRAIL CROSSING		7	SQ-SOIL	2	1	1						
S-42	DESIGN	NO PARKING BEGINS HERE		7	SQ-SOIL	2	<u>1</u> 1	1						
	W15-1	PLAYGROUND	36 x 36			_			9.00					
S-43	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
S-44	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
S-45	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
S-46	DESIGN	NO PARKING TOW AWAY ZONE		7	SQ-SOIL	2	1	1						
S-47	R1-1	STOP	36 x 36	7	SQ-SOIL	2	1	1	9.00					
	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
S-48	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
S-49	DESIGN	NO PARKING TOW AWAY ZONE	26 26	7	SQ-SOIL	2	1	1	0.00					
S-50	W15-1	PLAYGROUND	36 x 36	7	SQ-SOIL	2	1	1	9.00					
	R8-3	NO PARKING NO PARKING	24 x 24	7			1	1	4.00					
S-51 S-52	R8-3 R8-3	NO PARKING NO PARKING	24 x 24	7	SQ-SOIL SQ-SOIL	2	<u>l</u>	1	4.00					
S-52 S-53	R8-3	NO PARKING NO PARKING	24 x 24 24 x 24	7	SQ-SOIL	2	<u>1</u>	1	4.00					
S-54	R8-3	NO PARKING	24 X 24	7	SQ-SOIL	2	<u> </u>	1	4.00					
S-55	R8-3	NO PARKING NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
3 33	R2-1	SPEED LIMIT 30	24 X 24		30 3012			1	7.00	`				
S-56	DESIGN	NO PARKING TOW AWAY ZONE		7	SQ-SOIL	2	1	1						
	R8-3	NO PARKING			50,55.2	_	_	1						
S-57	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
S-58	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
S-59	DESIGN	NO PARKING TOW AWAY ZONE		7	SQ-SOIL	2	1	1						
S-60	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
S-61	DESIGN	MAN HOLE MARKER		4	SQ-SOIL	2	1	1						
S-62	DESIGN	NO PARKING TOW AWAY ZONE		7	SQ-SOIL	2	1	1						
S-63	R8-3	NO PARKING	24 x 24	<u>7</u>	SQ-SOIL	2	1	1	4.00					
S-64	R8-3	NO PARKING		7	SQ-SOIL	2	11	1						
S-65	R8-3	NO PARKING	24 x 24		SQ-SOIL	2	1	1	4.00					
S-66	W1-8	CHEVRON		5	SQ-SOIL	2	1	1						
S-67	W1-6	ONE DIRECTION ARROW NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
S-68	R8-3 W1-8	CHEVRON	24 X 24	5	SQ-SOIL	2	1	1	4.00					
S-68 S-69	W1-8	CHEVRON		5	SQ-SOIL	2	<u> </u>	1						
3-03	R2-1	SPEED LIMIT 30			3Q-3OIL		1	1						
	R8-3	NO PARKING	24 x 24	-				1	4.00					
S-70	OM2-2V	TYPE 2 OBJECT MARKER	27 X 27	7	SQ-SOIL	2	1	1	7.00					
	OM2-2V	TYPE 2 OBJECT MARKER		\dashv				1						
S-71	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1 1	4.00					

A. CHALUPSKY DESIGN BY: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A PERMANENT SIGNING TABULATION SHEET DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CAD BY: A. CHALUPSKY CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005 CHECKED BY: R. ALLERS 45896 LAST REVISION: RYAN ALLERS, LICENSED PROFESSIONAL ENGINEER LICENSE NO. DATE

SHEET

329

214

			AND DE	LINEATOR	/ MAR									Υ
		PANEL				SUPPORT	-					SALVAGE	INSTALL	DELINEATO
SIGN NUMBER	PANEL CODE		SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	REMOVE SIGN	SIGN	SALVAGE SIGN	INSTALL SIGN	SIGN PANEL	SIGN PANEL	/MARKEF PANEL
	0002		INCHES	FEET		INCHES	1 0010	EACH	SQ FT	EACH	EACH	EACH	EACH	EACH
	DECIGN	DICKCON WALLENT										1	1	
	DESIGN DESIGN	DICKSON AVE EXT DICKSON AVE EXT										1	1	
c 72	DESIGN	SUNSET DR		7	SQ-SOIL	2	1					1	1	
S-72	DESIGN	SUNSET DR		\dashv ' \mid	SQ-SUIL	2	1					1	1	
	R1-1	STOP	36 x 36					1	9.00			Т	1	
S-73	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
3-73	W11-2	PEDESTRIAN CROSSING	36 x 36	,	SQ-SUIL	2	1	1	9.00					
S-74				⊣ 7	SQ-SOIL	2	1	1						
S-75	W16-9P	AHEAD PLAQUE (BLACK ON FLUORESCENT YELLOW-GREEN) NO PARKING	24 x 12	7		1	1		2.00 4.00					
	R8-3		24 x 24	/	SQ-SOIL	2	1	1						
S-76	W3-1	STOP AHEAD NO PARKING	36 x 36	⊣ 7	SQ-SOIL	2	1	1	9.00					
	R8-3		24 x 24		`			1	4.00					
	M2-1	JCT (YELLOW ON BLUE)	21 x 15					1	2.19					
S-77	M1-6M	HENNEPIN COUNTY 51 (YELLOW ON BLUE)	24 x 24	⊣ 7	SQ-SOIL	2	1	1	4.00					
	DESIGN	NO PARKING TOW AWAY ZONE	24 24	_		_	_	1	4.00					
	R8-3	NO PARKING	24 x 24						4.00	,				
	W11-2	PEDESTRIAN CROSSING	36 x 36					1	9.00					
	W16-7PL	DOWN ARROW LEFT PLAQUE (BLACK ON FLUORESENT YELLOW-GREEN)	30 x 18	_				1	3.75					
S-78	W11-2	PEDESTRIAN CROSSING	36 x 36	7	SQ-SOIL	2	1		9.00					
		DOWN ARROW RIGHT PLAQUE (BLACK ON FLUORESCENT YELLOW-GREEN)	30 x 18						3.75					
	DESIGN	NO PARKING TOW AWAY ZONE						1						
S-79	R2-1	SPEED LIMIT 30	24 x 30	⊣ 7	SQ-SOIL	2	1	1	5.00					
	R8-3	NO PARKING	24 x 24	,	30 3012				4.00					
	W11-2	PEDESTRIAN CROSSING	36 x 36					1	9.00	`				
	W16-7PL		30 x 18					1	3.75					
S-80	W11-2	PEDESTRIAN CROSSING	36 x 36	_ 7	SQ-SOIL	2	1		9.00					
		DOWN ARROW RIGHT PLAQUE (BLACK ON FLUORESCENT YELLOW-GREEN)	30 x 18						3.75					
	R8-3	NO PARKING						1						
S-81	DESIGN	ADOPT A HIGHWAY		7	SQ-SOIL	2	1					1	1	
	R8-3	NO PARKING	24 x 24	-	-			1	4.00					
S-82	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
S-83	DESIGN	LORD FLETCHER'S RESTAURANT PARKING ONLY										1	1	
S-84	R8-3	NO PARKING		7	SQ-SOIL	2	1	1						
S-85	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1	1	4.00					
	DESIGN	DICKSON AVE										1	1	
	DESIGN	DICKSON AVE										1	1	
S-86	DESIGN	SUNSET DR		7	SQ-SOIL	2	1					1	1	
	DESIGN	SUNSET DR										1	1	
	R1-1	STOP	36 x 36					1	9.00					
S-87	DESIGN	NO PARKING TOW AWAY ZONE		7	SQ-SOIL	2	1	1						

Hei	ili	epi	n

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.

45896

LICENSE NO.

CAD BY: CHECKED BY: LAST REVISION: DATE

DESIGN BY:

A. CHALUPSKY A. CHALUPSKY R. ALLERS

PERMANENT SIGNING TABULATION SHEET

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005

SHEET
215
329

		SIG	N AND DEL	INEATOR	R / MAR	KER								Υ
		PANEL				SUPPORT						SALVAGE	INSTALL	DELINEATOR
SIGN NUMBER	PANEL CODE		SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	REMOVE SIGN	SIGN	SALVAGE SIGN	INSTALL SIGN	SIGN PANEL	SIGN PANEL	/MARKER PANEL
			INCHES	FEET		INCHES		EACH	SQ FT	EACH	EACH	EACH	EACH	EACH
	M3-2	EAST (YELLOW ON BLUE)	24 x 12	_					2.00					
S-88	M1-6M	HENNEPIN COUNTY 51 (YELLOW ON BLUE)	24 x 24	7	SQ-SOIL	2	1		4.00					
	M5-1L	ADVANCE TURN LEFT (YELLOW ON BLUE)	21 x 15						2.19					
S-89	R3-8AA	L-R	36 x 30	7	SQ-SOIL	2	1		7.50					
3-65	R8-3	NO PARKING	24 x 24	7	SQ-SOIL	2	1		4.00					
	R1-1	STOP	36 x 36				1	1	9.00					
	X4-1	GUIDE DELINEATOR (BLACK ON WHITE)					1	1						
	M3-2	EAST (YELLOW ON BLUE)	24 x 12						2.00					
S-90	M1-6M	HENNEPIN COUNTY 51 (YELLOW ON BLUE)	24 x 24	7	SQ-SOIL	2	1	1	4.00					
	M6-1	ARROW (YELLOW ON BLUE)	21 x 15					1	2.19					
	M1-6M	HENNEPIN COUNTY 19 (YELLOW ON BLUE)	24 x 24				1	1	4.00					
	M6-4	DOUBLE ARROW (YELLOW ON BLUE)	21 x 15				1	1	2.19					
S-91	OM1-1	OBJECT MARKER (YÈLLOW ON YELLOW)		4	SQ-CONC	2	1	1						
	R4-7	KEEP RIGHT			•									
S-92	R1-1	STOP		7	SQ-CONC	2	2	1						
	R4-7	KEEP RIGHT				_		_						
	M3-4	WEST (YELLOW ON BLUE)	24 x 12						2.00					
S-93	M1-6M	HENNEPIN COUNTY 51 (YELLOW ON BLUE)	24 x 24	7	SQ-CONC	2	1	1	4.00					
	M6-1	ARROW (YELLOW ON BLUE)	21 x 15	· '	54 55.15	_	-	1	2.19					
S-94	OM1-1	OBJECT MARKER (YELLOW ON YELLOW)		4	SQ-CONC	2	1	1	2.25					
S-95	R1-1	STOP	36 x 36	7	SQ-SOIL	2	<u>-</u> 1	_	9.00					
	M3-4	WEST (YELLOW ON BLUE)	24 x 12	•	34 3312	_	-		2.00	`				
S-96	M1-6M	HENNEPIN COUNTY 51 (YELLOW ON BLUE)	24 x 24	7	SQ-SOIL	2	1	1	4.00					
	R8-3	NO PARKING	24 x 24	· '	34 33.12	_	-	_	4.00					
	W1-1L	SHARP CURVE LEFT	21 7 21			_		_	1.00					
S-97	R8-3	NO PARKING		7	SQ-SOIL	2	1	1						
	W11-2	PEDESTRIAN CROSSING	36 x 36						9.00					
S-98	W16-9P	AHEAD PLAQUE (BLACK ON FLUORESCENT YELLOW-GREEN)	24 x 12	7	SQ-SOIL	2	1		2.00					
S-99	R3-8AD	L-TR	36 x 30	7	SQ-SOIL	2	1		7.50					
	113 0/10	LIII	JU X JU	,	JQ JOIL	_	-		7.50					
							PROJECT TOTAL	92	505.33			34	34	

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.

45896

LICENSE NO.

DESIGN BY: CAD BY: CHECKED BY: LAST REVISION:

DATE

A. CHALUPSKY A. CHALUPSKY R. ALLERS

PERMANENT SIGNING TABULATION SHEET

CSAH 51 / HENNEPIN COUNTY PROJECT 2182000 SAP 027-651-011, SAP 027-619-029, SAP 027-594-005