DocuSign Envelope ID: 453C042F-5	B97-4141-815F-0EB3B5AFC717 ANOKA COUNTY TRA 1440 BUNKE ANDOVE 763- highwaypermits(NSPOR R LAKE R, MN 5 324-3176 @anokaco	TATION DIVISION BLVD NW 5304 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NOT VALID UNLESS SIGNED BY ANOKA COUNTY PERMIT NUMBER RIGHT OF WAY X COMMERCIAL ACCESS
APPLICATION FOR PERMIT	FOR INSTALLATION OF UTILITIES ALL APPLICANTS MUST BE REGI	OR PLACI STERED PI	NG OBSTRUCTIONS ON THE (RIOR TO PERMIT APPROVAL	COUNTY HIGHWAY SYSTEM
APPLICANT NAME Darre	en Lazan - JD Andover Holdings	, <mark>LLC</mark> CON	TACT PERSON Darren Laz	an
ADDRESS Suite 513, 10	5 South Fifth Avenue	CITY	Minneapolis, MN 55401	
PHONE NUMBER 612-6	38-0250	EMA	IL dlazan@landform.net	
COMPANY OR INDIVIDU	AL PERFORMING WORK Nort	nwest Tot	al Site	
CONTACT PERSON Tyler	Enright	EMA	IL TEnright@nwasphalt.n	et
		PHO	NE NUMBER 952-445-100	13
PERMIT WORK TO START	05/01/2024			
PERMIT WORK TO BE CO	MPLETED 11/01/2024			
DURATION OF JOB 6 m	onths			
ARE YOU BEING ASKED T	O RELOCATE DUE TO A COUNT	TY PROJE	CT? No	
ANOKA COUNTY PROJEC	T NUMBER			

CITY Andover WORK SITE ADDRESS North 165th Ave NW and West of Dakota St NW METHOD OF INSTALLATION/CONSTRUCTION Excavation

IS SIGNING AND STRIPING REQUIRED? Yes

NATURE OF WORK Intersection reconstruction and turn lane construction.

SURFACE TO BE DISTURBED

SITE PLAN

DITCH/BLVD

X GRAVEL

X BITUMINOUS

CONCRETE

NONE

DEPTH FROM SURFACE 12" (60" minimum under county roads)

SIZE AND KIND OF PIPE/CABLE 24" Arch RCP Pipe

NUMBER OF EXCAVATIONS 1

IF THE ROADWAY IS ENCROACHED, YOU MUST ATTACH A TRAFFIC CONTROL PLAN AND/OR REFERENCE THE MOST CURRENT VERSION OF THE MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL (3+ DAYS REQUIRES PLANS TO BE SIGNED BY A LICENSED PE).



SIZE OF EXCAVATIONS 70', 5', 5' (Length, width, and depth)

LOCATION OF EXCAVATIONS ALL EXCAVATIONS ARE TO BE PROTECTED AT ALL TIMES AND THEN BACKFILLED WHEN UNATTENDED AND/OR OVERNIGHT Specific written descriptions of excavations - if shown on attached drawing, drawing shall be specific with depth and distance from centerline, curb, or other distinguishable location. Traffic control plans cannot be approved without specific excavation descriptions.

Excavation and site work for 70 linear feet and approximately 5 ft wide and 5 ft deep for storm water arch pipe to be installed in conjunction with turn lane improvements from Anoka Hwy 7 (Roanoke St) to proposed new 170th Street NW to Legacy at Petersen Farms Residential Subdivision.

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY

ACTD reserves the right to make changes to these special conditions.



ANOKA COUNTY TRANSPORTATION DIVISION 1440 BUNKER LAKE BLVD NW ANDOVER, MN 55304 PERMIT PHONE: 763-324-3176 highwaypermits@anokacountymn.gov

GENERAL INFORMATION

One permit must be approved for each county road on which work will be performed prior to any work within the right of way by any utility/contractor. Emergency conditions which threaten the safety of the public and require immediate repair are exceptions to this rule. Under those circumstances, the utility/contractor is permitted to begin and/or complete the necessary repairs. The Anoka County Transportation Division (ACTD) shall be notified of emergency repairs as soon as feasible and a written permit is to be completed within two business days of occurrence.

A license-permit bond is generally required of the contractor as part of the registration process, the amount of which will be determined by the nature of the utility work.

A sketch or drawing shall accompany each permit application which will show the location of the proposed work/utility with reference to the county highway center line and right of way line. A complete set of plans is required for all sewer/water projects.

It shall be the responsibility of the applicant to determine which of the special conditions apply to each permit.

ACTD reserves the right to revoke any utility permit and halt work, if, upon inspection of any job site, the special conditions are not met, and/or a hazard exists for the applicant or public safety is threatened. The failure to comply with the terms and conditions of any applicable Federal, State, Regional, and local laws, rules and regulations, including any provision of Anoka County's Right-of-Way Ordinance shall be cause for immediate revocation of a permit.

The applicant shall notify ACTD immediately upon completion of project so that the ACTD can inspect the site to determine if restoration has been satisfactorily completed.

The undersigned hereby accepts the terms and conditions of this permit and the regulations of Anoka County, and agrees to fully comply therewith to the satisfaction of the ACTD. The county of Anoka, its officials, employees, and agents, shall be held harmless, by the applicant/permittee, from any demands, claims, lawsuits, or damages relating to the work described in this permit.

APPLICANT'S SIGNATURE

Jarren Lazan

2312EBD250EE45

DATE

DATE

E 3/22/2024

AUTHORIZATION OF PERMIT

In consideration of the applicant's agreement to comply in all respects with the regulations of the ACTD covering such operations, permission is hereby granted for the work to be done as described in the above application. Said work to be done in accordance with the general conditions listed above and the special conditions required as hereby stated. It is expressly understood that this permit is conditioned upon replacement or restoration of the county highway and its right of way to their original or to a satisfactory condition. It is further understood that this permit is issued subject to the approval of local city or township authorities having joint supervision over said street or highway.

APPROVED BY:

TITLE: Traffic Technician

NOT VALID UNLESS SIGNED BY ANOKA COUNTY

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

SPECIAL CONDITIONS

TRAFFIC CONTROL

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1) Detours

Anoka Countv

MINNESOTA

- a) Detailed detour layouts shall be submitted to the traffic engineer for approval.
- b) No detours shall be permitted without prior approval of the Anoka county traffic engineer.
- c) A ten day notice must be given prior to the installation of any detour.
- d) It shall be the responsibility of the applicant to notify Anoka county central communications, local government bodies, and any affected bus companies ten days prior to any road closures/detours.
- e) Immediately upon completion of work and/or detours, all posts, barricades, and signs shall be removed from the right of way.

2) Traffic control devices

a) All traffic control devices, barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance with the most recent edition of the Minnesota manual on uniform traffic control devices and temporary traffic control zone layouts – field manual of the same manual.

CONSTRUCTION REQUIREMENTS

- 1) Open cutting of bituminous or concrete surfaced roads will be allowed only at the discretion of the county engineer.
- 2) Neither supplies nor excavation materials shall be placed on the bituminous or concrete surface at any time.
- 3) No trenches will be allowed to remain open overnight.
- 4) Materials removed from the trench shall be used as backfill insofar as they are suitable. All backfill material shall conform to MNDOT specifications for compaction. The use of heavy equipment on top of trench, slapping with backhoe bucket and/or back casting to achieve compaction is prohibited. Any additional material required to back fill to the original grade shall be furnished by the applicant at no expense to the ACTD. All the base and surface courses damaged during construction operations shall be restored to a condition equal to or better than before operations began. The applicant shall be responsible for and restore any settlement.
- 5) All culverts, ditches, shoulders, and backslopes shall be restored to their original condition unless otherwise directed by the ACTD. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc., are the sole responsibility of the applicant and shall be restored to their original condition.
- 6) All roadway maintenance required within the limits of the utility project that is related to the applicant's activities shall be the sole responsibility of the applicant for one year after completion of the project. Upon completion of the restoration work, the applicant shall request a final inspection by the ACTD. The ACTD's approved completion date shall be the starting date of the applicant's one-year responsibility.

HORIZONTAL BORING AND JACKING

- 1) All hard surface roadways shall be jacked or bored.
- 2) All crossings of Anoka County maintained roadbeds, shall be made by boring inside a casing or carrier pipe, or by jacking unless otherwise directed by the Anoka County Engineer. The auger shall lead the casing or carrier pipe by at least six inches whenever possible and never lead the carrier pipe by more than one inch.
- 3) The use of pneumatic devices to facilitate the roadbed crossings will be allowed in most cases with prior approval. In the event approval is not granted and applicant uses a pneumatic device to cross a roadbed and encounters an obstruction and/or unstable subbase material which makes forward or reverse motion of pneumatic device impossible, said pneumatic device then becomes part of the roadway subbase and permission to excavate to retrieve device will not be granted.
- 4) If a pneumatic device is used for the work permitted herein, the installation must be kept to a minimum of four feet below the surface of the roadway if the pneumatic device is less than two inches in diameter, and a minimum of five feet below the surface of the roadway if the pneumatic device is two inches in diameter or larger.

BITUMINOUS RESTORATION

- 1) The locations and dimensions of all openings to be made in the bituminous surface shall be approved by the ACTD prior to any cutting or any surface opening operations.
- 2) All openings in bituminous surfaces shall be cut in a straight line with the sides smooth and vertical. No ragged edges will be permitted. Cutting shall be done with a concrete saw.
- 3) All necessary dust control operations shall be carried out by the applicant at no expense to Anoka County.
- 4) The minimum requirement for subgrade replacement shall be the upper twelve inches of material and shall meet MNDOT specifications for class five placed in six inch layers compacted to one hundred percent of optimum density.
- 5) All manhole casings, gate valves, and other utility structures shall be set one quarter inch below the top of the finished surface.
- 6) Bituminous tack coat materials and application thereof shall conform to MNDOT specification 2357.
- 7) All bituminous surfacing shall be replaced as soon as practicable after the base construction. All bituminous surfacing shall be machine laid. Any exceptions must be approved by the ACTD. Bituminous surfacing shall be replaced to original pavement depth or to a minimum of six inches of bituminous mixture (2360), whichever is greater. Bituminous mixtures must be placed in lifts not exceeding three inches in thickness for base and binder courses and not exceeding two inches for the wear course.
- 8) All surface restoration regardless of size shall conform to existing grades.
- 9) Any unnecessary or negligent damage to bituminous surface in conjunction with the installation and/or repair of a utility shall be cut out and replaced in kind as directed by the ACTD.

Anoka County

INITIAL

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Respectful, Innovative, Fiscally Responsible

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

<u>CO</u>	NCRETE RESTORATION
1)	Curb and gutter, sidewalks, and driveways shall be restored in accordance with MNDOT specifications 2531 and 2521.
UTI	ILITY LINES
1) 2)	There shall be only a single pole line on the county right of way on either side of the center line thereof. Exact locations of longitudinal installations on county highways shall be located as directed by the ACTD.
SEC	CTION CORNER MONUMENTS
1)	Utility locations shall not interfere with the location of any section, quarter, witness, or right of way monuments. For assistance in locations, contact the Anoka County Surveyor's Office.
2)	The applicant shall be responsible for replacement of any existing property irons disturbed during construction.
3)	The applicant shall notify the Anoka County Surveyor's Office three working days in advance of any anticipated disturbance of any section, quarter, witness, or right of way monuments.
4)	Any monument disturbed during the course of construction, shall be reset by the Anoka County Surveyor's Office at the expense of the applicant.
ATT	ACHING TO BRIDGES/STRUCTURES
1)	No utility is permitted to be hung from, or otherwise attached to, any bridge or structure without having detailed plans approved by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension of housing for the utility.
ADI	DITIONAL PROVISIONS
1)	All subcontractors, installers, and crew shall possess a physical or electronic copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following: a) Approved permit
2	b) Any/all traffic control plans and/or layouts
Z)	shall hotily Anoka County Permits at 763-324-3176 or highwaypermits@anokacountymn.gov
	b) With time frame of proposed of work
	c) Anticipated traffic control
	d) When work is complete - including restorations - to request a final inspection
3)	No work during inclement weather or when plows are out in any capacity
4)	All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Field Manual
5)	For staking of right-of way or proposed infrastructure, contact Chris Osterhus at 763-324-3189 a minimum of 48 hours prior
	to the commencement of work.

4 | Page

Two-Lane, Two-Way Roads

A road consisting of two opposing lanes of undivided traffic.

Two-Lane Two-Way

*Drawings Not To Scale



mndot.gov/fieldmanual

January 2018

T\	NO-LANE, 1	WO-WAY R	OADS			
Intermediate Volume Up to 1500 ADT	MOBILE 15 Minutes or Less	SHORT DURATION 1 Hour or Less	SHORT TERM 12 Hours or Less	INTERMEDIATE TERM 3 Days or Less		
Lane Closure	11					
Flagger Control	2	6*		15*		
STOP Sign Control			14			
Work in Center of Road	2	7*				
All ADTs	MOBILE 15 Minutes or Less	SHORT DURATION 1 Hour or Less	SHORT TERM 12 Hours or Less	INTERMEDIATE TERM 3 Days or Less		
Work Vehicle Parked on Shoulder		6		8		
Work on Shoulder		9		8		
Work off Shoulder			8			
Work off Roadway	10					
Shoulder or Parking Lane Closure			8			
Partial Shoulder Closure for Trailer Mounted Devices			7			
Lane Closure	12, 13*					
2 Flagger Control			16*			
Moving Work Spaces		17*				
Near Intersection		20*, 21*				
Near Railroad Xing		22*				
Pilot Car Operation		18*				
Flagging Crossroads and Blind Curves			19*			
Automated Flagger Assistance Device (AFAD)			24*			
Portable Signal Control			25	` 		
Flagging Station Enhancements			23			
Work in Center of Road		28*				
Lane Shift			29			
Turn Lane Closures		3	33, 34			
Temporary Road Closure (15 minute intervals)		31*				
Temporary Road Closure			32			
Sidewalk Closure		8	38, 89			
Bike Lane Closure			87			
Gravel Road Maintenance		30				
Crossroad and Confirmation Signing			35			

See Low Volume Roads section for ADTs less than 400.

 $^{\ast}\,$ This layout may be used for nighttime operations only if the flagging stations are occupied and illuminated with portable lights.

1. The Work Vehicle should be pulled over as far off the roadway as possible, and shall display and operate a 360-degree flashing beacon.



WORK VEHICLE PARKED ON SHOULDER

- ① Type B channelizing devices shall be used in the shoulder taper regardless of the location on the shoulder or the width of the shoulder.
- (2) Trailer mounted traffic control devices should be placed at least 4 feet from the traveled lane. If a 4 foot clearance cannot be met, then the taper length shall be doubled.



PARTIAL SHOULDER CLOSURE Trailer Mounted Devices on Shoulder

- (1) The ROAD WORK AHEAD sign may be omitted for short term daylight operations if a vehicle is displaying and operating a 360-degree flashing beacon and:
 - a. The distance from curb face to the work space is at least 2 feet, or
 - b. The distance from the edge of the roadway to the work space is at least 15 feet.
- (2) This ROAD WORK AHEAD sign shall be installed on two-lane, two-way roads if traffic control devices are installed for a work space in the opposite shoulder.
- (3) If this layout is used to close a parking lane that is normally open to vehicle travel during the time of day the closure will be in effect, the lane shall be considered a traveled lane and not a parking lane. <u>Layout 42</u> shall be used to provide traffic control for the lane closure.
- 4. If this layout is used to close a parking lane, channelizer spacing may be reduced from 2G to G in high volume areas.



- (1) Any Shadow Vehicle or Protection Vehicle operating totally or partially in a traffic lane should be equipped with a TMA.
- (2) The Shadow Vehicle or Protection Vehicle may encroach into the traffic lane when the shoulder is too narrow to drive on.
- 3. Any vehicle not displaying a Flashing Arrow Board shall display high-intensity rotating, flashing, oscillating, or strobe lights.
- (4) The PCMS shall be used for nighttime operations.
- 5 When the PCMS is used, the SHOULDER CLOSED or NO SHOULDER sign becomes optional.
- (6) The distance between the work area and the Shadow Vehicle should be adjusted between **R** and **F** based on traffic volume and sight distance.



1 HOUR or LESS

- (1) A Shadow Vehicle should be used on roadways where Decision Sight Distance (**D**) is frequently restricted and the equipment consistently encroaches within 3 feet of the traffic lane. The Shadow Vehicle may be omitted on roadways with speeds limits of 40 mph or less.
- (2) On roadways of less than 400 ADT the Shadow Vehicle and ROAD WORK AHEAD sign may be omitted.
- (3) The vehicle should be as far off the roadway as possible, and shall display and operate a 360-degree flashing beacon.
- (4) The ROAD WORK AHEAD sign may be omitted when there is an adequate approach Decision Sight Distance (\mathbf{D}) to the equipment along the majority of the route.
- (5) When advance warning signs are used, the signs should be no more than 3 miles from the equipment. The location of the signs should be determined by the sources of traffic, such as major cross roads. If the distance is 1 mile or greater, a XX MILES distance plaque should be used and placed directly below or on the lower side of the warning sign nearest traffic.
- (6) The Shadow Vehicle should be equipped with a TMA if it encroaches into the traffic lane.



WORK OFF ROADWAY Mobile Operations Having Little or No Interference with Traffic **15 MINUTES or LESS** LAYOUT 10

6K-10

- 1. If the approach sight distance is restricted, a spotter should be used.
- If the visibility is poor or the operation does not move at least the Decision Sight Distance (D) every 15 minutes, the appropriate stationary layout should be used.
- 3. This layout may be used for nighttime operations only in locations where the posted speed limit is 40 mph or less.
- (4) The slow moving or stopped Work Vehicle should keep the traffic lane as wide as possible by using the shoulder space whenever possible.





LANE CLOSURE TWO-LANE, TWO-WAY ROAD

- 1. Use Layout 13 under any of the following conditions:
 - If the work space is not visible for at least the Decision Sight Distance (D),
 - The motorists cannot see beyond the work space, or
 - Traffic volumes do not allow passage.
- (2) Any Shadow Vehicle or Protection Vehicle operating totally or partially in a traffic lane should be equipped with a TMA.
- 3. If the work space does not move at least the Decision Sight Distance (**D**) every 15 minutes, the appropriate stationary layout should be used.
- 4. This layout may be used for nighttime operations only in locations where the posted speed limit is 40 mph or less.
- 5 For nighttime operations, the Flashing Arrow Board shall be used.
- (6) The slow moving or stopped Work Vehicle and Shadow Vehicle should keep the traffic lane as wide as possible by using the shoulder space whenever practical.
- (\overline{O}) The distance between the work area and the Shadow Vehicle should be adjusted between \mathbf{R} and \mathbf{F} based on traffic volume and sight distance.



- 1. The advance warning signs should be moved or reset after each major road intersection or after each mile whichever comes first.
- (2) Any Shadow Vehicle or Protection Vehicle operating totally or partially in a traffic lane should be equipped with a TMA.
- (3) The slow moving or stopped Work Vehicle(s) and Shadow Vehicle should keep the traffic lane as wide as possible by using the shoulder space whenever practical.
- 4. If the work area does not move at least the Decision Sight Distance (**D**) every 15 minutes, the appropriate stationary layout should be used.
- 5. This layout may be used for nighttime operations only in locations where the posted speed limit is 40 mph or less.
- 6 The Shadow Vehicle with Flashing Arrow Board shall be used during nighttime operations.



- 1 Approach signs are the same in both directions.
- (2) STOP signs shall be 48 x 48 inches. The left-side STOP sign may be 30 x 30 inches.
- (3) If adequate sight distance is not available to recognize a stopped vehicle or traffic volume restricts vehicles from taking turns through the open lane, use Layout <u>16</u> or <u>25</u>.
- (4) The ONE LANE ROAD AHEAD sign may be omitted when the posted speed limit is 40 mph or less.
- 5 The two-way taper should be 50 feet in length using 5 equally spaced channelizing devices.



- (1) The approach sight distance to the flagger shall be at least the Decision Sight Distance (**D**).
- (2) If the flagger's ability to see oncoming motorists beyond the work space is less than the Decision Sight Distance (D), two flaggers shall be used - See <u>Layout</u> <u>16</u>.
- (3) The ONE LANE ROAD AHEAD sign may be omitted when the posted speed limit is 40 mph or less.
- 4. If the work space must be left unattended at night use Layout 14.
- (5) The two-way taper should be 50 feet in length and using 5 equally spaced channelizing devices.



- (1) The approach sight distance to the flagger shall be at least the Decision Sight Distance (**D**).
- (2) The ONE LANE ROAD AHEAD sign may be omitted when the posted speed limit is 40 mph or less.
- (3) The two-way taper should be 50 feet in length using 5 equally spaced channelizing devices.
- 4. If anticipating operational problems, the use of a Pilot Car (see <u>Layout 18</u>) may improve operations and safety.



3 DAYS or LESS



- 1. This layout shall be used with the appropriate flagger layout to select the location of additional required traffic control devices.
- This layout may be used for short term stationary traffic control zones that cover a relatively long segment of highway in a short period of time but do not meet the requirements for a mobile traffic control zone. It is intended to be used to eliminate the multiple movement of signs along a corridor.
- The maximum distance allowed for this layout is 3 miles. At no time will there be more than 1 mile between Flagger Ahead signs.
- See <u>Layout 35</u> for required placement of advance warning signs on crossroads.

Time Period	Signs Displayed	Signs Not Displayed
1	C & A	B&D
2	C & B	A&D
3	B&D	A&C

MOVING WORK SPACES

- (1) The approach sight distance to the flagger shall be at least the Decision Sight Distance (**D**).
- (2) The ONE LANE ROAD AHEAD sign may be omitted when the posted speed limit is 40 mph or less.
- (3) Channelizing devices along the edge of the work space may be omitted unless traffic is traveling next to longitudinal drop-offs that are greater than 4 inches.
- (4) Pilot Cars should lead traffic through the work zone at a safe speed. See the Flagging Handbook for additional guidance.
- (5) Advance warning signs are the same for both directions approaching the work area.
- (6) The two-way taper should be 50 feet in length using 5 equally spaced channelizing devices.
- 7. See Layout 19 for additional considerations if there are crossroads.



ги	January 2018
NOT	TES:
(1)	See <u>Layout 16</u> for advance signing and flagger setup. Approach signs are the same in both directions.
2	When a flagger is positioned at an intersection, they:
	 Shall have 2-way communications with the Pilot Car,
	 Should use hand signals with a flag or flashlight with red glow cone to control traffic movements rather than the typical STOP/SLOW paddle in order to avoid displaying the SLOW paddle to the opposite approach, and
	 May need additional flaggers to direct traffic when the crossroad consistently has multiple vehicles per direction waiting each Pilot Car cycle.
3	 A flagger may be placed at a blind curve, crest of a hill, or other site obstruction where traffic might enter from other driveways or entrances to warn the Pilot Car that there may be oncoming traffic. When used, the flagger: Shall be located to clearly see traffic from both directions, Shall not be positioned in the open traffic lane, Shall have 2-way communications with the Pilot Car, Shall have a flagger paddle; and Should have a means to warn an errant driver such as an air horn.
4.	Consider distributing brochures to local businesses and residents detailing Pilot Car operations.
(5)	PILOT CAR FOLLOW ME sign shall be mounted on the Pilot Car.

- (6) Channelizers shall be placed near intersections and flagging stations.
- (7) Layout 18 indicates which channelizers are optional with Pilot Car operations.



6K-19b

LAYOUT 19a & b

- (1) The spacing between devices should be reduced to **G** or less when the work space is within 300 feet of the intersection. This will help keep motorists from entering into the work space near the intersection.
- (2) The ONE LANE ROAD AHEAD sign may be omitted when the posted speed limit is 40 mph or less.
- 3. When the traffic volume of the minor roadway exceeds 1500 ADT or turning movements cause unsafe operations, the following steps should be considered:
 - a. Control traffic at the intersection with a law enforcement officer;
 - b. Restrict vehicle turns from the major roadway with flagging, signing, and/or closing the turn lanes; or
 - c. Completely close a leg of the minor roadway until the work space has left the area near the intersection.
- (4) For other temporary traffic control devices in advance of the work space, see Layouts 4, 15, or 16.



- When the work space is located between A and 3A beyond a controlled intersection, the normal sign and buffer spacing in the approach area may be reduced during daylight operations. The Flagger Ahead sign should be centered between the flagger station and the intersection.
- (2) The ONE LANE ROAD AHEAD sign may be omitted when the posted speed is 40 mph or less.
- 3. When the traffic volume of the minor roadway exceeds 1500 ADT or turning movements cause unsafe operations, the following steps should be considered:
 - a. Control traffic at the intersection with a law enforcement officer;
 - b. Restrict vehicle turns from the major roadway with flagging, signing, and/or closing the turn lanes; or
 - c. Completely close a leg of the minor roadway until the work space has left the area near the intersection.
- (4) For other temporary traffic control devices in advance of the work space, see Layouts 4, 15, or 16.
- (5) The two-way taper should be 50 feet in length using 5 equally spaced channelizing devices.



- 1. Users of this layout shall coordinate with the railroad.
- 2. If the backup of vehicles across active railroad tracks cannot be avoided, a law enforcement officer or a flagger shall be provided at the crossing to prevent vehicles from stopping within the railroad crossing even if automatic warning devices are in place.
- (3) The approach sight distance to the flagger shall be at least the Decision Sight Distance (**D**).



NOTES:

- 1) The flagger may be equipped with an airhorn.
- (2) The STOP/SLOW paddle may be enhanced with flashing conspicuity lights on the signs.
- (3) The Flagger Ahead sign may be enhanced with flashing conspicuity lights on it.
- (4) Keep Right signs and Type A channelizing devices such as weighted channelizers, cones, tubular markers, or centerline delineators are optional.
- (5) The portable rumble strips array should consist of 3 strips placed perpendicular to the direction of travel. Spacing of rumble strips should be from center of rumble to center of rumble and based on the posted speed limit:
 - 40 mph or less = 10 feet spacing
 - 45 to 55 mph = 15 feet spacing
 - 60 mph or greater = 20 feet spacing

The rumble strips shall be white, black, or orange.



NOTES: 1. The approach sight distance to the Automated Flagging Assistance Device (AFAD) shall be at least the Decision Sight Distance (D). (2)The ONE LANE ROAD AHEAD sign may be omitted when the posted speed limit is 40 mph or less. (3) The two-way taper should be 50 feet in length using 5 equally spaced channelizing devices. (4) When using a single operator, they shall be located so they can DAJH **ROAD** see traffic at both AFAD locations. (5) Use the appropriate sign on the (2)AFAD. **DAOR** ONE LANE ⋪ 10 210b Α РВЕРАВЕD 38 **OPTIONAL** T Δ A up to 1 mile 12 x 18 5 inches maximum AFAD 0 100 feet ᡟ 0 0 3 2G (4)Å .B Operators 3 ▲ I 50 feet I AFAD A up to 1 mile 5 12 x 18 I maximum inches OPTIONAL ь A Á PREPARED TO STOP ł A ONF LANE ROAD AHEAD (2) ROAD WORK AHEAD LANE CLOSURE, AUTOMATED FLAGGERS TWO-LANE, TWO-WAY ROAD **3 DAYS or LESS** LAYOUT 24 6K-24

- 1 Approach signs are the same in both directions.
- 2. Signal timing and signal head locations shall be established by qualified personnel and approved by the road authority.
- (3) Two signal heads shall be installed per approach. The first shall be installed on the right shoulder. The second signal head may be installed on either the left shoulder or mounted overhead on the same structure as the first signal head.



LANE CLOSURE WITH PORTABLE SIGNALS TWO-LANE, TWO-WAY ROAD

3 DAYS or LESS

- 1. The Work Vehicles shall not be parked on the shoulder opposite of the coned area.
- (2) The Flagger and Flagger Ahead sign may be omitted when traffic volumes do not restrict the ability of traffic to regulate itself through the length of the work space.
- (3) The two-way taper should be 50 feet in length using 5 equally spaced channelizing devices.



EQUIPMENT IN TRAFFIC LANE TWO-LANE, TWO-WAY ROAD

1 HOUR or LESS

- (1) The Work Vehicle shall be parked off of the roadway. Do not obstruct the shoulder in the coned areas.
- (2) The Flaggers and the Flagger Ahead signs may be omitted if the posted speed limit is 40 mph or less and there is at least 10 feet of driveable surface outside of the channelizing devices.
- (3) The flagger shall be visible for at least the Decision Sight Distance (**D**).
- ④ The Keep Right sign may be omitted if the posted speed limit is 40 mph or less.



EQUIPMENT ON CENTERLINE TWO-LANE, TWO-WAY ROAD

1 HOUR or LESS

- (1) The Flaggers and the Flagger Ahead signs may be omitted if the posted speed limit is 40 mph or less and there is at least 10 feet of driveable surface outside of the channelizing devices.
- 2 Parking and stopping should be prohibited along the work area and tapers.
- \bigcirc The flagger shall be visible for at least the Decision Sight Distance (**D**).
- 4 The Keep Right sign may be omitted if the posted speed limit is 40 mph or less.



12 HOURS or LESS

- (1) Parking and stopping should be prohibited along the work area and tapers.
- 2 Minimum lane widths shall be 10 feet of driveable surface. When temporary lane widths are less than existing lane widths a LANES NARROW sign or a Narrow Lane (width shown) sign with advisory plaque placed directly below or on the lower side of the warning sign nearest traffic should be used.
- (3) The Double Reverse Curve, Reverse Curve, and/or Keep Right signs may be omitted when the posted speed limit is 40 mph or less.
- (4) If tangent length of activity area is 600 feet or less, use the Double Reverse Curve sign.



- 1. Motor Graders shall be equipped with operating vehicle warning lights visible for 360 degrees around the vehicle at a minimum height of 3 1/2 feet and a radius of 60 feet or greater.
- 2. Motor Grader blade end(s) may be marked with red or orange flags to provide additional warning and make the equipment more visible to passing vehicles.
- (3) The ROAD WORK AHEAD signs may be omitted when there is an adequate approach Decision Sight Distance (**D**) to the Motor Grader along the majority of the route.
- (4) When advance warning signs are used, the signs should be no more than 3 miles from the Work Vehicle. The location of the signs should be determined by the sources of traffic, such as major cross roads.



GRAVEL ROAD MAINTENANCE Grading Operations TWO-LANE, TWO-WAY ROAD

12 HOURS or LESS

- 1. Road authority shall be contacted prior to closure.
- 2. If the volume is less than 400 ADT, traffic control devices may be substituted with law enforcement.
- 3. Traffic should not be stopped for intervals of greater than 15 minutes.
- (4) The BE PREPARED TO STOP sign may be omitted when the posted speed limit is 40 mph or less.



TEMPORARY ROAD CLOSURE TWO-LANE, TWO-WAY ROAD

12 HOURS or LESS

NOTES:

- 1. The road authority shall be contacted prior to closure. The road authority may provide requirements related to sign placement, detours, emergency services, etc.
- (2) A Road Closure Notice sign should be installed in advance (timewise) as required by the road authority.
- (3) Install Type III barricade at the last driveway or intersection beyond which there is no public access. Barricade shall span the entire roadway including traversable shoulders.
- 4. Road user safety and usability must be maintained up to the full closure.
- (5) ROAD CLOSED TO THRU TRAFFIC barricade assembly may be placed on the center line; stripes on barricade shall slope downward toward the appropriate traffic direction (for both directions of the roadway).
- (6) DEAD END sign shall be used only when there is a dead end and there are no alternate through routes past this point.
- (7) NO OUTLET sign shall be used only when there are no outlets and there are no alternate through routes past this point.



3 DAYS or LESS

- 1. Contact the appropriate road authority for signal timing modifications before beginning work at any signalized intersection.
- (2) Optional R3-1, R3-2, or R3-18 signs may be placed on sign stand or top of barricades on side closest to traffic. Signs are required if turns are prohibited.



TURN LANE CLOSURES

- 1. Contact the appropriate road authority for signal timing modifications before beginning work at any signalized intersection.
- (2) Optional R3-2 or R3-18 signs may be placed on sign stand or top of barricades on side closest to traffic. Signs are required if turns are prohibited.



LEFT TURN LANE CLOSURE TWO-LANE, TWO-WAY or MULTI-LANE UNDIVIDED ROAD

3 DAYS or LESS

- 1. This layout should be used for those stationary temporary traffic control zones that extend over a relatively long segment of roadway.
- 2. The appropriate layout shall be used for the active work space (such as resurfacing operations, area of paving, etc).
- 3 Confirmation signing for a continuous condition should be placed after every intersection and approximately 1 mile spacing for speeds 45 mph or greater, or 1/4 mile spacing for speeds 40 mph or less.
- (4) Use the appropriate advance warning sign for the roadway condition, i.e. GROOVED PAVEMENT, LOOSE GRAVEL, ROUGH ROAD. An advisory Motorcycle plaque may be placed directly below or on the lower side of the warning sign nearest traffic if the warning is directed primarily to motorcyclists.
- 5. Consider delineating raised structures (manhole covers, etc.)



3 DAYS or LESS



CONTRACTOR NORTHWEST TOTAL SITE 1451 STAGECOACH ROAD SHAKOPEE, MN 55379

TYLER ENRIGHT TENRIGHT@NWASPAHLT.NET TEL: 952-445-1003

ELECTRIC CONNEXUS ENERGY

BECKY BERGHERR BECKY.BERGHEER@CONNEXUSENERGY.COM

TEL: 763.323.2644

CABLE / INTERNET COMCAST 4255 LEXINGTON AVENUE STE 100 ARDEN HILLS, MN 55126

BRAD GREENWALDTZ BRADLEY_GREENWALDTZ@COMCAST.COM

TEL: 651.564.2513 FAX

 MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION (2020 EDITION (2022 SUPPLEMENTAL)) ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MOST RECENT EDITION OF THE MN MUTCD INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS,

LEGACY AT PETERSEN FARMS TURN LANE TO 170TH AVE ANDOVER, ANOKA COUNTY, MINNESOTA



GOVERNING SPECIFICATIONS

ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING

 PERFORM CONSTRUCTION IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) LAWS AND REGULATIONS

DEVELOPER

JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304 TEL (612)205-1224

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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

Eric T. Luth. PE License No: 50475 Date: 12/18/2023

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Suite 513 Minneapolis, MN 55401	Fax: Web:	612-252- landforn	.9077 n.net
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- 10. ACHD TRAFFIC TO DETERMINE THE LIMITS OF THE NO PASSING ZONE AS A PART OF THE PERMIT PROCESS AND



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TEL (612)205-1224

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DEVELOPER

JD ANDOVER HOLDI GS.LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304

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Eric T. Luth, PE			
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	:Pavement Removal	1. Obtain permits for demolition, cl	earing, and disposal prior to beginning.
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- 11. THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR CONSTRUCTION" SHALL GOVERN



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License No:	50475	Date:	12/18/2023

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DEVELOPER

JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304

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ACHD TRAFFIC TO DETERMINE THE LIMITS OF THE NO PASSING ZONE AS A PART OF THE PERMIT PROCESS AND

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Eric T. Luth,	PE		
License No:	50475	Date:	12/18/2023

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105 South Fifth Avenue Suite 513 Minneapolis, MN 55401	Tel: Fax: Web:	612-252 612-252 landforr	-9070 -9077 n.net
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: T. Luth, F	È			
ense No:	50475	Date:	12/18/2023	

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105 South Fifth Avenue	Tel:	612-252	-9070
Suite 513	Fax:	612-252	-9077
Minneapolis, MN 55401	Web:	landforr	n.net
FILE NAME	C300LD	P-ACHD GF	P.dwg
PROJECT NO.		LDP1700	2.003
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Eric T. Luth, PE License No: 50475 Date: 12/18/2023

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INTERSECTION IMPROVEMENT PLANS 03/20/2024





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TRAFFIC CONTROL PLAN NOTES

1. SIGNS TO FOLLOW CONVENTIONAL ROAD SIZINGS (36" X 36" COMMON).

TRAFFIC CONTROL SHALL MEET THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL.

3. ADDITIONAL SIGNS AND CHANNELIZERS SHALL BE SUPPLIED AND MOVED BY CONTRACTOR AS NEEDED FOR SAFE

4. CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL SIGNS AND CHANNELIZERS AS NEEDED.

5. EXISTING CONFLICTING PAVEMENT MARKINGS WILL NEED TO BE REMOVED BEFORE FINAL PERMANENT STRIPING

6. DURING CONSTRUCTION, CONFLICTING PAVEMENT MARKINGS WILL NEED TO BE COVERED WITH BLACK REMOVABLE LANE TAPE OR WATER BLASTED AND THEN HAVE PAVEMENT MARKINGS INSTALLED FOR TEMPORARY CENTERLINE DURING CONSTRUCTION.

DEVELOPER

JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304

TEL (612)205-1224

MUNICIPALITY





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From Site to Finish	•	•
105 South Fifth Avenue	Tel·	612-252-9070
Suite 513	Fax:	612-252-907
Minneapolis, MN 55401	Web:	landform.ne
FILE NAME	C400LD	P-ACHD TC.dwg
PROJECT NO.		LDP17002.003
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CERTIFICATION



JD ANDOVER HOLDINGS,LLC

16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304 TEL (612)205-1224

DEVELOPER

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INTERSECTION IMPROVEMENT PLANS 03/22/2024

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DEVELOPER

JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304

TEL (612)205-1224

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DATE	ISSUE / REVISION	REVIEW

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DEVELOPER

JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304 TEL (612)205-1224

MUNICIPALITY





HORIZONTAL SCALE: 1"=50' VERTICAL SCALE: 1"=25'

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DEVELOPER

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CANDFORM 2024

















DEVELOPER

JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304 TEL (612)205-1224

MUNICIPALITY





a duly Licensed Professional Engine					
Eric T. Luth, PE License No: 50475		Date:	12/18/202	3	
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ANDOVER, MINNESOTA

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HORIZONTAL SCALE: 1"=50' VERTICAL SCALE: 1"=25'

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NO SCALE

RECLAIM SECTION

DEVELOPER
JD ANDOVER HOLDINGS,LLC 16380 JUNIPER ST. NW ANDOVER, MINNESOTA 55304 TEL (612)205-1224
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ANDOVER, MINNESOTA
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CERTIFICATION 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.

105 South Fifth Avenue Suite 513 Minneapolis, MN 55401 Web: landform.net FILE NAME C600LDP-ACHD CD.dwg PROJECT NO. LDP17002.003

CONSTRUCTION DETAILS

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NO SCALE

ANOKA COUNTY HIGHWAY DEPARTMENT

Design Requirements Checklist for County Highway Modifications (To be submitted with plans and specifications)

Development/Project Name: Legacy at Petersen Farms - Turn Lane To 170th Ave

County Highway No.(s): 7

Submittal Date: 03/22/2024

The design shall meet State	Aid Standards and the	following:		Revised: June 2021
Design Detail	Desired Standard	Minimum Standard	Standard Achieved (Yes* or No** or NA)	Notes * - if Yes, circle, highlight or note standard ** - if No provide value used with justification (additional documentation if necessary)
ALL H	IIGHLIGHTED ITEMS M	UST BE SHOWN IN PLAN	NS AND/OI	R SPECIFICATIONS
		GENERAL		
DESIGN YEAR	20-yr traffic	Existing Traffic	Yes*	
DESIGN VEHICLE	WB-62	WB-50	Yes*	detail A no curb
DESIGN SPEED	Po	osted	Yes*	
VERTICAL ALIGNMENT				
HIGHWAY GRADE		0.5% Min	Yes*	
STREET APPROACH GRADE	0.5% - 25' Landing	2% - 20' Landing	Yes*	
ENTRANCE GRADES:				
Residential	<10%	15% Max	Yes*	
Commercial	<6%	8% Max	N/A	
BIKE PATH GRADE	Mn/DOT Bikeway F	Facility Design Manual	N/A	
	IN	ITERSECTION ELEMENT	S	
STREET/ENTRANCE APPROACH RADIUS	Design Vehicle	30 - Turning Movements for Design Vehicle	Yes*	
STREET/ENTRANCE APPROACH		Label width of approach/entrance	Yes*	
INTERSECTION DETAIL		1"-20 Scale of intersection with pavement elevations shown		
TRAFFIC SIGNAL	Contact ACHD Traffic	Department If Applicable	N/A	
CROSSWALK	lf s	signal	N/A	
STOP BAR	lf s	signal	N/A	
ADA RAMP	All sidewalk	/trail crossings	N/A	
SIGHT DISTANCE	MnDOT Road Des	ign Manual Chapter 5	Yes*	
	CF	ROSS SECTION ELEMEN	TS	
TYPICAL SECTION	Show widths, slopes, d	lepths, materials, curb etc.	Yes*	
CROSS SECTIONS - 1"= 20' SCALE	50' Intervals, show ditches.	100' Intervals, show ditches.	N/A	
SECTION DEPTH AND MATERIALS:				
Thru Lane	Using R value and 20-yr ESALs	2" Wear (SPWEB340C), 2" Wear (SPWEB340C), 2" Non-Wear (2.0" SPNW330C), 6" CI 5	N/A	
Left Turn / Bypass Lane	Using Through Lane R value and 20-yr ESALs	2" Wear (SPWEB340C), 2" Wear (SPWEB340C), 2" Non-Wear (2.0" SPNW330C), 6" CI 5	N/A	
Right Turn (See attached details)	Using Through Lane R value and 20-yr ESALs	Proj. ADT ≤ 5000: 2" Wear (SPWEB340C), 2" Wear (SPWEB340C), 6" Cl 5	Yes*	detail A no curb

The design shall meet State	Aid Standards and the	e following:		Revised: June 2021
Design Detail	Desired Standard	Minimum Standard	Standard Achieved (Yes* or No** or NA)	Notes * - if Yes, circle, highlight or note standard ** - if No provide value used with justification (additional documentation if necessary)
Right Turn Lane (See attached details)	Using Through Lane R value and 20-yr ESALs	Proj. ADT 5000 TO 10,000: 1.5" Wear (SPWEB340C), 1.5" Wear (SPWEB340C), 2" Non-Wear (2.0" SPNW330C), 6" Cl 5	N/A	
Right Turn/ Lane (See attached details)	Using Through Lane R value and 20-yr ESALs	Proj. ADT ≥ 10,000: 2" Wear (SPWEB340C), 2" Wear (SPWEB340C), 2" Non-Wear (2.0" SPNW330C), 6" Cl 5	N/A	
LANE WIDTH:			-	
Through Lane		12'	Yes*	
Left Turn Lane	13'	12'	Yes*	
Right Turn Lane	13'	12'	Yes*	
SHOULDER WIDTH:				
Urban	8'	2' (B-minor and below)	N/A	
Rural (ADT>1500)	8'	6' (collector and below)	Yes*	Existing
Rural (ADT<1500)	6'	2' or existing if greater	N/A	
CURB REACTION DISTANCE		1' (median) 2' (outside)	N/A	
CROSS SLOPES:				
Through Lane		2%	Yes*	
Left Turn Lane		2%	Yes*	
Right Turn Lane	2.5%	2%	Yes*	
Shoulder		Match adjacent lane	Yes*	
TURN LANE LENGTH (SEE ATTACHED DETAILS)	Based on Peak hour traffic	300'	Yes*	
TURN LANE TAPER (SEE ATTACHED DETAILS)	1:15	1:10 (only if 1:15 not possible)	Yes*	
TYPE OF CURB AND GUTTER:				
With Design Speed >= 45mph	B424	B418 (or match existing)	N/A	
With Design Speed < 45mph	B624	B618 (or match existing)	N/A	
MEDIAN WIDTH		4' (at turn lanes)	N/A	
MEDIAN SURFACE MATERIAL	Concrete		N/A	
INSLOPE:				-
Urban		1:4 inside clear zone 1:3 outside clear zone	N/A	
Rural		1:4 inside clear zone 1:3 outside clear zone	Yes*	
BACKSLOPE	1:4	1:3	N/A	No Backslopes
DITCH BOTTOM WIDTH	8	5'	Yes*	
CLEAR ZONES:				
Urban		10'	N/A	
Rural		30'		
Bike Path		2'	N/A	
BIKE PATH WIDTH		8'	N/A	

The design shall meet State	Aid Standards and the	following:		Revised: June 2021
Design Detail	Desired Standard	Minimum Standard	Standard Achieved (Yes* or No** or NA)	Notes * - if Yes, circle, highlight or note standard ** - if No provide value used with justification (additional documentation if necessary)
BIKE PATH SURFACE	Bitu	minous	N/A	
RURAL: DISTANCE BETWEEN PATH AND THROUGH LANE	22'	10' (Design Speed < 40 mph)	N/A	
URBAN: DISTANCE BETWEEN PATH AND GUTTER	10'	6.5' (2.5' paved at turn lane)	N/A	
DISTANCE BETWEEN PATH AND RIGHT OF WAY	4'	2' (if no power poles)	N/A	
RIGHT OF WAY WIDTH:				
Principal Arterial	1	50'	N/A	
Minor Arterial (urban)	120' 1		N/A	
Minor Arterial (2-lane rural)	1	20'	Yes*	
Minor Arterial (4-lane rural)	150'	140' (no trail)	N/A	
Collector	1	20'	N/A	
		DRAINAGE		
GENERAL	Conform to NPDES	Phase II Requirements	Yes*	
HYDROLOGY	Rural areas and mixed urban and rural areas use SCS CN method	Urban areas with less than 25 acres use Rational method	Yes*	
DESIGN STORM (FOR DISCHARGE INTO COUNTY R/W):				
Cities/Townships < 5000	5-year ci	ritical event	Yes*	
Cities/Townships > 5000	10-year o	ritical event		
DISCHARGE RATE (INTO COUNTY R/W)	Post-developmen	t < Pre-development	Yes*	
		STORM SEWER		
DESIGN FREQUENCY	10-year, 50)-year at sags	Yes*	
PIPE SIZE:				
Laterals	15"	12"	N/A	
Main	By Hydraulic Design	15"	Yes*	18" x 28.5" RCP Arch pipe
TYPE OF PIPE	RCP De	esign 3006	Yes*	
MAXIMUM SPREAD	MnDOT Sta	ite Aid Manual	N/A	
PIPE COVER		2'	Yes*	
PIPE VELOCITY		3 ft./sec.	Yes*	
STRUCTURE TYPE	Precast	Concrete	N/A	
CASTING ASSEMBLIES:				
Catch Basins	MnDOT 816, 806, 825		N/A	
Manholes	MnDOT 715,700-4		N/A	
Drop Inlets	MnDOT 720 (Standard Plate 4140D)		N/A	
		CULVERTS		
DESIGN FREQUENCIES:				
Street Approach/Driveway	10	-year	Yes*	18" x 28.5" RCP Arch pipe
Centerline	50	-year	N/A	

The design shall meet State	Aid Standards and the	following:		Revised: June 2021
Design Detail	Desired Standard	Minimum Standard	Standard Achieved (Yes* or No** or NA)	Notes * - if Yes, circle, highlight or note standard ** - if No provide value used with justification (additional documentation if necessary)
PIPE SIZE:				
Driveway	By Hydraulic Design	15" (18" if L ≥ 60')	N/A	
Street Approach	By Hydraulic Design	18" (24" if L≥ 60')	Yes*	18" x 28.5" RCP Arch pipe
Centerline	By Hydraulic Design	24"	N/A	
CULVERT TYPE:				
Residential Driveway	CSP		N/A	
Commercial Driveway	RCP Design 3006		N/A	
Street Approach	RCP Design 3006		Yes*	
Centerline	RCP Design 3006		N/A	
PIPE COVER		2'	Yes*	
PIPE BEDDING		Per Mn/DOT Guidelines	Yes*	
ALLOWABLE HEADWATER		1' from shoulder PI	Yes*	
SAFETY APRONS:				
Perpendicular Pipe	If ≥ 30" pipe end inside clear zone		N/A	
Parallel Pipe	If pipe end inside clear zone		N/A	
SAFETY GRATES:				
Perpendicular Pipe	lf ≥ 30" pipe ir	nside clear zone	N/A	
Parallel Pipe	lf ≥ 24" pipe end	I inside clear zone	N/A	
TRASH GUARD		If outlet, then all inlets	Yes*	
CONCRETE PIPE TIES	All Culvert Joints	Last 3 joints to outlet	Yes*	
		PONDS		
	NO PONDING ALL	OWED IN ANOKA COUN	TY RIGHT	OF WAY
GRADING PLAN	1' conto	our interval	No**	2' Contour
TYPICAL SLOPES/BENCHES	1:10 at NWL for 10'; 1:4 above and below NWL	1:6 above and below NWL	N/A	
PERMANENT POOL VOLUME	Per watershed district requirement	Equal to runoff from 2.5" rainfall	N/A	
100-YEAR WATER LEVEL	1' below	shoulder PI	Yes*	
OUTLET STRUCTURE DESIGN	Control the proposed 1- or 2-y pre-pro	/ear and 100-year runoff rates to ject rates.	Yes*	
EMERGENCY SPILLWAY	Provide for events	larger than 100-year	Yes*	
		RIGHT OF WAY		
GENERAL ROW COVERAGE	The right of way for any Cour acquired or the right to occ property (via easem	nty road enhancement has been cupy and use non right of way ent) has been acquired.	Yes*	
GENERAL ROW COVERAGE	Construction limits for county ro within the right of way	bad enhancements are completely or covered by easement?	Yes*	
ROADWAY ELEMENTS	County road enhancements of or covered	completely within the right of way by easement?	Yes*	
SIDEWALK ELEMENTS	Trail or walk elements com or covered	pletely within the right of way by easement?	N/A	
CLEAR ZONES	County Road clear zone con or covered	mpletely within the right of way by easement?	Yes*	

The design shall meet State	Aid Standards and the	following:		Revised: June 2021
Design Detail	Desired Standard	Minimum Standard	Standard Achieved (Yes* or No** or NA)	Notes * - if Yes, circle, highlight or note standard ** - if No provide value used with justification (additional documentation if necessary)
		EROSION CONTROL		
REQUIREMENT	Conform to N	IPDES Phase II	Yes*	
SILT FENCE	Placed around project perimeter.	All points of discharge off the project	Yes*	
ROCK ENTRANCES, 1.5" WASHED ROCK	Length 100'	Length 50'	Yes*	
REFERENCE	MnDOT Erosion Control Hand	I Ibook, by Office of Environmental rvices	Yes*	
		MISCELLANEOUS		
LANDSCAPING/STREETSCAPING	Conform to ACHD Landscape/Streetscape Guidelines		N/A	
TURF ESTABLISHMENT:				
Sod	Residential yards; commer	cial boulevards where irrigated	N/A	
Sod Type	Per Mn/DC	DT Spec 3878	N/A	
Seed and Mulch	All other areas, including	blvds that are not irrigated.	Yes*	
Seed Type	25-141 - ditches, 25-131 - boulevards		Yes*	
Mulch Type	Type 1, Disk Anchored		Yes*	
EROSION CONTROL BLANKET	On slopes 1:3 and steeper		Yes*	
PAVEMENT MARKINGS:				I
Lane Markings	Ероху	Latex	Yes*	County to provide striping 2024
Pavement Messages, Arrows, Crosswalks, Stop Lines	Durabl	e Marking	Yes*	
UTILITIES	Precon mtg. w/all area designs	Notify all utilities prior to const. to allow for relocation	Yes*	
LIST OF STANDARD PLATES	All standard plates us	ed in ACHD right-of-way	Yes*	
TRAFFIC CONTROL				
Impact to Traffic	Traffic control plan	signed by P.E. required	No**	MNDOT Layouts 6-35
MEETS LONGITUDINAL DROP-OFF GUIDELINES	Label depth of excavation adjacent thru lane (to deter	on and lateral offset from mine if J-barrier is required)	Yes*	
NOTE (1) DESIGN REQUIREME	NTS NOT TO BE CONSTR	UED AS COMPREHENSIVE.		AL ITEMS MAY BE REQUIRED.
NOTE (2) BETWEEN MAY 15 TH	AND OCT. 15 TH ANOKA CO	OUNTY CREWS MAY DO TH	E STRIPING	WORK (COORDINATED THROUGH PERMIT).
By signing below, I certif Eric Luth	y the information provided	l in this form is true and co	9/06/2	best of my knowledge. 3
50475			landfo	rm
MIN P.E. REGISTRATION NUMBER			COMPANY	

ANOKA COUNTY HIGHWAY DEPARTMENT

FILE NAME: \$DGN\$

ANOKA COUNTY HIGHWAY DEPARTMENT

FILE NAME: \$DGN\$

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FILE NAME: \$DGN\$

ANOKA

COUNTY

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Susan Burgmeier Susan.Burgmeier@co.anoka.mn.us

Associate Traffic Technician

Anoka County

Signing Group: Highway Permits

Security Level: Email, Account Authentication (Optional)

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Signature

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AAdams@Landform.net

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