

Wisconsin Department of Transportation

March 20, 2018

Division of Transportation Systems Development

Bureau of Project Development 4802 Sheboygan Avenue, Rm 601 P O Box 7916 Madison, WI 53707-7916

Telephone: (608) 266-1631 Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #06: 1090-30-70, WISC 2018190 2445-09-70

Rock Freeway

Crowbar Dr to Cth I

North Avenue

115th St to Union Pacific RR Bridge

IH 43 Local Street

Waukesha County Milwaukee County

Letting of April 10, 2018

This is Addendum No. 02, which provides for the following:

Special Provisions:

Revised Special Provisions			
Article	Description		
No.	Bosonpaon		
1	General		
3	Prosecution and Progress		
7	Utilities		
8	Other Contracts		

Added Special Provisions				
Article	Description			
No.	Description			
72	Railroad Insurance and Coordination – Union Pacific Railway Company			
73	Cold Patch, Item 495.1000.S			
74	Joint and Crack Repair, Item SPV.0090.0001			
75	Survey Project 2445-09-70, Item SPV.0105.0002			
76	Pavement Cleanup Project 2445-09-70, Item SPV.0105.0003			

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	n Unit	Old	Revised	Proposal
Did item	item Description		Quantity	Quantity	Total
204.0120	Removing Asphaltic Surface Milling	SY	679	11,949	12,628
305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,694	115	2,809
455.0605	Tack Coat	GAL	379	717	1,096
460.2000	Incentive Density HMA Pavement	DOL	749	1000	1,749
625.0100	Topsoil	SY	8,111	773	8,884

628.1905	Mobilizations Erosion Control	EA	19	2	21
628.1910	Mobilizations Emergency Erosion Control	EA	9	2	11
628.7005	Inlet Protection Type A	EA	9	3	12
628.7020	Inlet Protection Type D	EA	14	24	38
634.0618	Posts Wood 4x6-Inch x18-FT	EA	46	11	57
634.0622	Posts Wood 4x6-Inch x 22-FT	EA	4	2	6
634.0816	Posts Wood 2x2-Inch x 16-FT	EA	2	4	6
637.2210	Signs Type II Reflective H	SF	251	123.42	374.42
637.2230	Signs Type II Reflective F	SF	100.5	32.5	133
638.2102	Moving Signs Type II	EA	3	2	5
638.2602	Removing Signs Type II	EA	22	10	32
638.3000	Removing Small Sign Supports	EA	30	10	40
643.0300	Traffic Control Drums	DAY	65,810	6,786	72,596
643.0420	Traffic Control Barricades Type III	DAY	7,161	672	7,833
643.0705	Traffic Control Warning Lights Type A	DAY	14,297	1,591	15,888
643.0715	Traffic Control Warning Lights Type C	DAY	2,798	710	3,508
643.0800	Traffic Control Arrow Boards	DAY	304	72	376
643.0900	Traffic Control Signs	DAY	54,377	1,667	56,044
646.1020	Marking Line Epoxy 4-Inch	LF	9,619	1,343	10,962
646.3020	Marking Line Epoxy 8-Inch	LF	90	1,735	1,825
649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	27,974	500	28,474
690.0150	Sawing Asphalt	LF	3,768	384	4,152

Added Bid Item Quantities					
Bid Item Item Description		Unit	Old	Revised	Proposal
Did item	<u>'</u>		Quantity	Quantity	Total
204.0100	Removing Pavement	SY	0	637	637
204.0150	Removing Curb & Gutter	LF	0	68	68
204.0155	Removing Concrete Sidewalk	SY	0	72	72
208.0100	Borrow	CY	0	425	425
213.0100.0002	Finishing Roadway (2445-09-70)	EA	0	1	1
320.0155	Concrete Base 9-Inch	SY	0	10	10
390.0403	Base Patching Concrete SHES	SY	0	160	160
416.0610	Drilled Tie Bars	EA	0	259	259
416.0620	Drilled Dowel Bars	EA	0	160	160
460.6224	HMA Pavement 4MT 58-28 S	TON	0	1,389	1,389
495.1000.S	Cold Patch	TON	0	5	5
601.0331	Concrete Curb & Gutter 31-Inch	LF	0	506	506
601.0600	Concrete Curb Pedestrian	LF	0	15	15
602.0410	Concrete Sidewalk 5-Inch	SF	0	645	645
602.0505	Curb Ramp Detectable Warning Field Yellow	SF	0	50	50
627.0200	Mulching	SY	0	773	773
628.2008	Erosion Mat Urban Class I Type B	SY	0	773	773
629.0210	Fertilizer Type B	CWT	0	0.5	5.5
630.0140	Seeding Mixture No. 40	LB	0	24	24
637.2215	Signs type II Reflective H Folding	SF	0	7.46	7.46
643.0410	Traffic Control Barricades Type II	DAY	0	73	73
643.0920	Traffic Control Covering Signs Type II	DAY	0	26	26
646.5020	Marking Arrow Epoxy	EA	0	9	9
646.5120	Marking Word Epoxy	EA	0	6	6
646.6120	Marking Stop Line Epoxy 18-Inch	LF	0	18	18
646.7120	Marking Diagonal Epoxy 12-Inch	LF	0	451	451

646.8120	Marking Curb Epoxy	LF	0	150	150
646.8220	Marking Island Nose Epoxy	EA	0	4	4
690.0250	Sawing Concrete	LF	0	1,086	1,086
SPV.0090.0001	Joint And Crack Repair	LF	0	1,000	1,000
SPV.0105.0002	Survey Project 2445-09-70	LS	0	1	1
SPV.0105.0003	Pavement Cleanup Project 2445-09-70	LS	0	1	1

Plan Sheets:

Added Plan Sheets – Project 2445-09-70				
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)			
1	Title Sheet			
2-4	Utility Contacts and General Notes			
5-6	Typical Sections			
7	Construction Details			
8-10	Plan Details			
11	Permanent Signing			
12-13	Pavement Marking			
14-18	Traffic Control			
19	Alignment Layout			
20-21	Survey Control			
22-23	EOQ			
24-29	Miscellaneous Quantities			
30-61	Standard Detail Drawings			
62-88	Sign Plates			

Other

This addendum adds to Proposal #06 Project ID 2445-09-70, North Avenue, 115th St to Union Pacific RR Bridge, Local Street, Milwaukee County.

Form DT1502 Highway Work Proposal (proposal cover sheet) is revised to add **Project ID 2445-09-70**, **North Avenue**, 115th St to Union Pacific RR Bridge, Local Street, Milwaukee County.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist Proposal Management Section

ADDENDUM NO. 01 1090-30-70, 2445-09-70 March 20, 2018

Special Provisions

1. General.

Replace paragraph one with the following:

Perform the work under this construction contract for Project 1090-30-70, Rock Freeway, Crowbar Dr to CTH I, IH 43, Waukesha County, Wisconsin, and also Project 2445-09-70, North Avenue, 115th St to Union Pacific RR Bridge, Local Street, Waukesha County, Wisconsin, as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2018 Edition, as published by the department, and these special provisions.

3. Prosecution and Progress.

Add the following section heading after paragraph five:

Prosecution and Progress Project 1090-30-70

Add the following section at the end of the article:

Prosecution and Progress Project 2445-09-70

Schedule of Operations

Traffic shifts shown in a given stage may occur at different times during that stage depending on the controlling elements for a given traffic movement as approved by the engineer. The department anticipates that the schedule of major traffic shifts and roadway openings and closings for each stage shall be as follows, unless approved by the engineer:

North Avenue Stage I

Complete median curb and gutter, earthwork grading, and landscaping restoration work Complete outside shoulder curb and gutter and sidewalk

North Avenue Stage II

Complete SHES concrete base patching, asphalt surface milling, joint and crack repair, HMA pavement, and pavement marking

Contractor Coordination

Attend weekly scheduling meetings to discuss the near term schedule activities, address any long-term schedule issues, and discuss any relevant technical issues. Develop a rolling three-week schedule identifying the previous week worked and a two week "look ahead". Provide sufficient detail to include actual and planned activities and all the subcontractors for offsite and construction activities, addressing all activities including ramp and lane closure schedules to be performed and identifying issues requiring engineering action or input.

Work Restrictions

Definitions

The following definitions apply to this contract:

North Avenue Night Time Closure Hours

- 9:30 PM Sunday, Monday, Tuesday, Wednesday, Thursday 5:30 AM the following day
- 11:00 PM Friday, Saturday 8:00 AM the following day

Freeway Ramp Closure Hours

- 9:30 PM Sunday, Monday, Tuesday, Wednesday, Thursday 5:30 AM the following day
- 11:00 PM Friday, Saturday 8:00 AM the following day

IH 41 Freeway Ramp Restrictions

IH 41 freeway ramp closures are permitted during IH 41 Freeway Ramp Closure Hours only.

All entrance and exit ramps shall be posted three business days in advance of their closure with dates and time of closure.

North Avenue Restrictions

Prior to 12:01 am on July 9, 2018, no work is permitted on North Avenue.

During Stage 1, a permanent single lane closure in each direction is permitted as shown in the plans to facilitate median construction.

During Stage 2, maintain two thru lanes in each direction at all times, except a single lane closure may be taken in each direction during North Avenue Night Time Closure Hours only. All SHES concrete base patching, asphalt surface milling, joint and crack repair, HMA pavement, and pavement marking shall be completed during North Avenue Night Time Closure Hours, unless otherwise approved by the engineer in the field.

Do not, at any time, conduct construction operations in the median area and adjacent outside shoulder area of the local street at the same time without obtaining prior permission of the engineer.

Intersection closures may be taken during North Avenue Night Time Closure Hours only.

Maintain access to all driveways and businesses at all times, except short term closures will be permitted utilizing flagging operations during night time milling and paving operations.

Keep sidewalks open unless otherwise shown on the plans, or to facilitate the removal and replacement of curb ramps. Provide sidewalk access along North Avenue on one side of the street at all times. Reopen all sidewalks within 120 hours of commencing any sidewalk replacement, or repair work.

Permitting the contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, will in no way operate as a waiver on the part of the department of any of its rights under the contract.

General Work Restrictions

Excavation material and cleared and grubbed material shall be stockpiled on upland areas an adequate distance away from wetlands, storm sewer inlets, floodplains, and the waterways as determined by engineer.

Provide the Wisconsin State Patrol, Milwaukee County Highway Maintenance, the City of Wauwatosa Police Department, and Milwaukee County Sheriff's Department with a 24-hour emergency contact number for when maintenance is required.

Park equipment and store material only at work sites approved by the engineer.

Keep open travel lanes free of construction debris at all times.

Interim and Final Completion of Work

Supplement standard spec 108.10 with the following:

The department will not grant time extensions for the following:

- Severe weather as specified in standard spec 108.10.2.2.
- Labor disputes that are not industry wide.
- Delays in material deliveries.

Each day is defined as a twenty-four hour period beginning at 12:01 AM. SEF Rev. 16 1206

Interim Completion of Work of North Avenue 8/12/2018

Supplement standard spec 108.11 as follows.

If the contractor fails to complete all work on North Avenue as shown in the plans prior to 12:01 AM on August 13, 2018, the department will assess the contractor \$5,000 in interim liquidated damages per day for each calendar day after 12:01 AM on August 13, 2018. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM on August 13, 2018.

7. Utilities.

Add the following section heading prior paragraph one:

Utilities Project 1090-30-70

Add the following section at the end of the article:

Utilities Project 2445-09-70

This contract comes under the provisions of Administrative Rule TRANS 220.

Additional information regarding recently relocated utility facilities may be available on permits issued to the utility companies. These permits can be viewed at the Region Office during normal working hours. Contact WisDOT SE Freeways Utility Coordinator Greg Berry at (414) 750-7828 for further information.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are required for this construction project as noted below. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per state statute. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

Some utility work, as described below, is dependent on prior work being performed by the contractor at a specific site. Provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Notice shall be given 14 to 16 calendar days in advance of when the site will be available to the utility. Follow up with a confirmation notice to the engineer and the utility not less than 3 working days before the site will be ready for the utility to begin its work.

Contact utility companies listed in the plans prior to preparing bids to obtain current information on existing utility locations and the status of any new utility relocation work.

Utility companies will be performing utility work and adjustments within the limits and during the life of the project. The contractor shall cooperate and coordinate construction activities with these companies.

There may be discontinued utility facilities within the project limits. If a conflict with a discontinued utility facility is encountered, contact the appropriate utility owner/representative to coordinate construction activities and proper removal and disposal of said facility as necessary.

Utility working days shown herein are as defined in Wisconsin Administrative Code Chapter Trans 220.

Known utilities in the projects are as follows:

North Avenue

AT&T Wisconsin has existing underground communications facilities within the project limits in the following locations:

- An existing underground communications line beginning beyond the westerly project limits and running easterly along the northerly median curb line of North Avenue to a manhole at the intersection of North Avenue and N. 114th Street at Station 106NO+66, 8'LT. From there it runs northeasterly and then continues easterly along the middle of the westbound lanes of North Avenue, crossing below IH 41, and continuing easterly to a manhole beyond the project limits. This line will remain in place without adjustment. AT&T Wisconsin will adjust the manhole at Station 106NO+66, 8'LT during construction. Allow 3 days for AT&T Wisconsin to perform the manhole adjustments.
- An existing underground communications line beginning beyond the southerly project limits and running northerly along the center of N. 114th Street to a vault in the median of North Avenue at Station 106NO+66, 8'LT and continuing northerly to beyond the project limits. This line will remain in place without adjustment.

AT&T Wisconsin also has discontinued underground communication facilities within the project limits in the following locations:

- A discontinued underground communications line beginning at a manhole at Station 106NO+66,
 8'LT and running easterly along the northerly median curb line of North Avenue, crossing below IH
 41, to a discontinued manhole at Station 113NO+37, 2'LT and continuing to beyond the project limits.
- A discontinued underground communications line beginning at a manhole at Station 113NO+37, 2'LT and running northerly to Station 113NO+37, 58'LT.
- A discontinued underground communications line beginning at a manhole at Station 113NO+37, 2'LT and running southerly to Station 113NO+32, 68'RT. From there it turns and runs easterly along the southerly right of way of North Avenue to Station 116NO+58, 62'RT where it turns southerly and ends near a pedestal at Station 116NO+62, 83'RT.

Contact Jeff Oldenburg (262-896-7522 office; 414-412-7047 cell) of AT&T Wisconsin 7 days in advance to coordinate manhole adjustments, locations and any excavation near their facilities.

Charter Communications has an existing underground communications line beginning beyond the southerly project limits at N. 114th Street and running northerly to Station 106NO+21, 68'RT where it turns and runs easterly along the southerly right of way of North Avenue, crossing below IH 41, and continuing easterly to beyond the project limits. This line will remain in place without adjustment.

Charter Communications also has a discontinued underground communication line beginning at Station 116NO+62, 52'LT and running easterly along the northerly sidewalk of North Avenue and continuing to beyond the project limits.

Contact Steve Cramer (414-277-4045) of Charter Communications 7 days in advance to coordinate locations and any excavation near their facilities.

Wauwatosa, City of - Lighting has existing underground electric lines and light poles throughout the project limits along the north and south curb lines of North Avenue. These facilities will remain in place without adjustment.

Contact Randy Michelz (414-479-8929) of City of Wauwatosa - Lighting 7 days in advance to coordinate locations and any excavation near their facilities.

Wauwatosa, City of - Sewer has existing underground sanitary sewer facilities within the project limits in the following locations:

- An existing underground sanitary sewer beginning at a manhole south of the project limits in the middle of the southwest IH 41 / North Avenue interchange loop ramp and running northerly, crossing North Avenue at Station 109NO+88, and continuing northerly to beyond the project limits. This line will remain in place without adjustment.
- An existing underground sanitary sewer beginning beyond the westerly project limits and running easterly along the southerly eastbound lane of North Avenue to a manhole in the intersection of N. 114th Street at Station 106NO+51, 45'RT where it turns and runs southerly to beyond the project limits. This line will remain in place without adjustment. The City of Wauwatosa will adjust the manhole at Station 106NO+51, 45'RT during construction. Allow 3 days for the City of Wauwatosa to perform the manhole adjustments.

Contact Mike Maki (414-479-8991) of City of Wauwatosa – Sewer 7 days in advance to coordinate manhole adjustments, locations and any excavation near their facilities.

Wauwatosa, City of – Signals has existing temporary signal facilities at the North Avenue/ southbound on-ramp to USH 45 intersection and at the North Avenue/ northbound on-ramp to USH 45 intersection. These facilities will remain in place without adjustment.

Contact Randy Michelz (414-479-8929) of City of Wauwatosa - Signals 7 days in advance to coordinate locations and any excavation near their facilities.

Wauwatosa Water Utility has existing underground water facilities within the project limits in the following locations:

- An existing underground water main beginning beyond the westerly project limits and running easterly along the southerly curb line of North Avenue, crossing below IH 41, and continuing easterly to beyond the project limits. This line will remain in place without adjustment.
- An existing underground water main beginning beyond the westerly project limits and running easterly along the northerly curb line of North Avenue to a tee in the intersection of N. 113th Street at Station 109NO+73, 50'LT. This line will remain in place without adjustment.
- An existing underground water main beginning at a tee at Station 109NO+89, 53'RT and running northerly, crossing North Avenue at Station 109+80, and continuing along N. 113th Street to beyond the project limits. This line will remain in place without adjustment.
- An existing underground water main beginning beyond the southerly project limits and running northerly along N. 114th Street and continuing to a tee in the eastbound lanes of North Avenue at Station 106NO+43, 55'RT. This line will remain in place without adjustment.
- An existing underground water main beginning beyond the northerly project limits and running southerly along N. 114th Street to the median of North Avenue. From there it turns and runs easterly and then southeasterly to a manhole on the south side of North Avenue at Station 107NO+47. This line will remain in place without adjustment.

Contact Dave Simpson (414-831-0799) of Wauwatosa Water Utility 7 days in advance to coordinate locations and any excavation near their facilities.

We Energies - Electric has underground electric facilities within the project limits in the following locations:

- An underground electric line beginning beyond the southerly project limits and running northerly along the west side of N. 114th Street to a manhole at Station 106NO+50, 69' RT. This line will remain in place without adjustment.
- An underground electric line beginning beyond the southerly project limits and running northerly to Station 117NO+50, 68'RT where it turns and runs easterly along the southerly right of way of North Avenue to beyond the project limits. This line will remain in place without adjustment.

Contact Nicholas Welch (414-944-5765) of We Energies - Electric 7 days in advance to coordinate locations and any excavation near their facilities.

We Energies – Gas has underground gas facilities within the project limits in the following locations:

- An existing underground gas main beginning beyond the westerly project limits and running easterly along the northerly westbound lane of North Avenue, crossing below IH 41, and continuing easterly to beyond the project limits. This line will remain in place without adjustment. We Energies will adjust gas valves along this line during construction. Allow 3 days for We Energies to perform the gas valve adjustments.
- An existing underground gas main beginning beyond the southerly project limits and running northerly along the westerly lanes of N. 114th Street, crossing North Avenue at Station 106NO+35, and continuing northerly to a tee at Station 106NO+35, 33'LT. This line will remain in place without adjustment.
- An existing underground gas main beginning beyond the northerly project limits and running southerly along N. 114th Street to a tee at Station 106NO+24, 33'LT. This line will remain in place without adjustment.

We Energies - Gas also has discontinued facilities within the project limits in the following locations:

- An underground gas main beginning beyond the westerly project limits and running easterly along the northerly curb line of North Avenue, crossing below IH 41, and continuing easterly to beyond the project limits.
- An underground gas main beginning beyond the northerly project limits and running southerly along N. 114th Street to a tee at Station 106NO+32, 57'LT.
- An underground gas main beginning beyond the southerly project limits and running northerly along N. 114th Street, crossing North Avenue at Station 106NO+41, and continuing to a tee at Station 106NO+41, 57'LT.
- An underground gas main beginning at a tee at Station 109NO+52, 44'LT and running northerly along N. 113th Street to beyond the project limits.
- An underground gas main beginning at a tee at Station 113NO+66, 45'LT and running southerly, crossing North Avenue at Station 113NO+66, and continuing southerly to beyond the project limits.
- An underground gas main beginning at a tee at Station 117NO+33, 46'LT and running southerly, crossing North Avenue at Station 117NO+33, and continuing southerly to beyond the project limits.

Contact Nick Ernster (414-944-5574) of We Energies-Gas 7 days in advance to coordinate gas valve adjustments, locations and any excavation near their facilities.

WisDOT has existing underground electric lines and light poles within the project limits, including along the median of IH 41, and along the ramps at the IH 41/ North Avenue interchange. These facilities will remain in place without adjustment.

Contact Eric Perea (262-574-5422 office/414-750-0935 cell) of WisDOT 7 days in advance to coordinate locations and any excavation near their facilities.

WisDOT has existing traffic management and underground communications facilities within the project limits in the following locations:

- An underground communication line beginning at Station 107NO+21, 75'RT and running westerly, crossing the IH 41 southbound on-ramp, and continuing westerly to Station 106NO+67, 75'RT where it turns and runs southerly to beyond the project limits. This line will remain in place without adjustment.
- An underground communication line beginning beyond the southerly project limits and running northerly, crossing North Avenue at Station 110NO+15, and continuing northerly to beyond the project limits. This line will remain in place without adjustment.
- An underground communication line beginning at Station 116NO+93, 75'LT and running easterly, crossing the IH 41 northbound on-ramp, and continuing easterly to Station 117NO+62, 83'LT where it turns and runs northerly to beyond the project limits. This line will remain in place without adjustment.

Contact Jeff Madson (414-225-3723) of WisDOT 7 days in advance to coordinate locations and any excavation near their facilities.

8. Other Contracts.

Add the following project at the end of the article:

City of Wauwatosa Local Street Resurfacing (North Avenue) North Avenue, 118th St to 115th St and UPRR Bridge to Mayfair Rd City of Wauwatosa Contact: Bill Wehrley, (414) 479-8929

72. Railroad Insurance and Coordination – Union Pacific Railway Company

A Description

Comply with standard spec 107.17 for all work affecting Union Pacific Railway Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Union Pacific Railway Company.

Notify evidence of the required coverage, and duration to Danielle Allen, Contract Administrator; 1400 Dodge Street, Stop 1690, Omaha, NE 68179; Telephone (402) 544-8020; E-mail: danielleallen@up.com.

Also send a copy to the following: Paul Derksen, SE Region Railroad Coordinator; 141 N. W. Barstow Street, Waukesha, WI 53188; Telephone (262) 548-8770; E-mail: paul.derksen@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 2445-09-70

- Project Location: Wauwatosa, WI

- Route Name: North Ave, Milwaukee County

- Crossing ID: 177 263E

- Railroad Subdivision: Milwaukee

- Railroad Milepost: 92.07

- Work Performed: Traffic control

A.2 Train Operation

Approximately 12 through freight trains operate daily at up to 40 mph.

A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination Construction Contact

John Venice, Manager Special Projects - Industry & Public Projects Engineering Department; 101 North Wacker Drive - Suite 1920, Chicago, IL 60606; Telephone (312) 777-2043; E-mail invenice@up.com for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

Flagging Contact

See Construction Contact. If more than 30 days of flagging is required contact UP 30 days prior to needing a flagger on site. Reference the Wisconsin Milepost and Subdivision located in A.1.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact the UP Call Before You Dig line at (800) 336-9193 at least five working days before the locate is needed. Normal business hours are 6:30 AM to 6:30 PM, Central Time, Monday through Friday, except holidays and are subject to change. Calls will be routed at all times in case of an emergency. Reference the Wisconsin Milepost and Subdivision located in A.1.

UP will only locate railroad owned cable buried in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions, and will be accomplished without cost to the contractor. none

A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

stp-107-026 (20170615)

73. Cold Patch, Item 495.1000.S.

A Description

This special provision describes furnishing cold patch and filling potholes and other voids in existing pavement surfaces as the engineer directs.

B Materials

Furnish a mixture of course aggregate, natural sand, and MC-250 bituminous material designed to have a workability range of 15-100° F without heating. Ensure that the mixture:

Adheres to wet surfaces.

- Resists damage from water, salt, and deicing products.
- Requires no mixing or special handling before use.
- Supports traffic immediately after placement and compaction.

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1/2-inch (12.5 mm)	100
3/8-inch (9.5 mm)	90 - 100
No. 4 (4.75 mm)	–90 max
No. 8 (2.38 mm)	20 - 65
No. 200 (0.074 mm)	2 - 10
Bitumen	4.8 - 5.4

The department will accept cold patch based primarily on the engineer's visual inspection. The department may also test for gradation.

C Construction

Stockpile cold patch on site on a smooth, firm, well-drained area cleared of vegetation and foreign material. Cover the stockpile and ensure that it is easily accessible. Replenish the stockpile throughout the project duration, but limit the size at any given time to 10 tons on site unless the engineer approves otherwise. Dispose of unused material at project completion unless the engineer directs otherwise.

Place cold patch by hand. Remove ponded water and loose debris before placement. Compact flush with a tamper, roller, or vehicle tire after placement.

Refill patched areas as necessary to maintain a flush pavement surface until project completion.

D Measurement

The department will measure Cold Patch by the ton, acceptably stockpiled on site.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
495.1000.S	Cold Patch	TON

Payment for Cold Patch is full compensation for providing and maintaining patches; for furnishing and replenishing stockpiled material on-site; and for disposing of excess material at the project completion

Stp-495-010 (20160607)

74. Joint and Crack Repair, Item SPV.0090.0001.

A Description

This special provision describes joint and crack repair involving removing all loose or spalled concrete and asphaltic patching, cleaning the joints and cracks, and filling with asphaltic material and compacting HMA.

B Materials

Furnish Hot Mixed Asphalt 4 MT 58-28 S; the engineer will not require the contractor to conform to the quality management program specified under 460.2.8.

C Construction

Clean out all joints and cracks. Place asphaltic tack coat. Fill voids with new asphaltic mixture and compact.

D Measurement

The department will measure Joint And Crack Repair by the linear foot acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER

DESCRIPTION

UNIT

SPV.0090.0001

Joint And Crack Repair

LF

Payment is full compensation for removing and properly disposing of all loose or spalled concrete and asphaltic patching; for cleaning joints and cracks; for furnishing and placing tack coat, for furnishing HMA pavement and filling the joints and cracks with HMA pavement; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Asphaltic material, asphaltic mixture and tack coat used to fill the joint will be incidental to the completed work.

75. Survey Project 2445-09-70, Item SPV.0105.0002.

A Description

This special provision describes modifying standard spec 105.6 and 650 to define the requirements for construction staking for this contract. Conform to standard spec 105.6 and 650 except as modified in this special provision.

Replace standard spec 105.6.1(2) with the following:

The department will not perform any construction staking for this contract. Obtain engineer's approval before performing all survey required to lay out and construct the work under this contract.

Replace standard spec 650.1 with the following:

This section describes the contractor-performed construction staking required under individual contract bid items to establish the horizontal and vertical position for all aspects of construction including:

- base
- sidewalk
- curb and gutter
- concrete base
- pavement markings (temporary and permanent)
- supplemental control
- traffic control items

B (Vacant)

C Construction

Replace standard spec 650.3.1(6) with the following:

Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. This includes:

- Raw data files
- Digital stakeout reports
- Control check reports

- Supplemental control files (along with method used to establish coordinates and elevation)
- Calibration report

Make the survey notes and computations available to the engineer within 24 hours as the work progresses unless a longer period is approved by the engineer.

D Measurement

Replace standard spec 650.4 with the following:

The department will measure Survey Project 2445-09-70 as a separate single lump sum unit of work, acceptably completed.

E Payment

Replace standard spec 650.5 with the following:

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER DESCRIPTION UNIT SPV.0105.0002 Survey Project 2445-09-70 LS

Payment is full compensation for performing all survey work required to lay out and construct all work under this contract and for adjusting stakes to ensure compatibility with existing field conditions. The department will not make final payment for this item until the contractor submits all survey notes and computations used to establish the required lines and grades to the engineer within 24 hours of completing this work. Re-staking due to construction disturbance and knock-outs will be performed at no additional cost to the department. sef-650-005 (20171004)

76. Pavement Cleanup Project 2445-09-70, Item SPV.0105.0003.

A Description

This special provision describes cleanup of dust and debris from pavements within and adjacent to the job site.

B Materials

B.1 Pavement Cleanup

Furnish a vacuum-type street sweeper equipped with a power broom, water spray system, and a vacuum collection system.

Utilize vacuum equipment with a self-contained particulate collector capable of preventing discharge from the collection bin into the atmosphere.

Use a vacuum-type sweeper as the primary sweeper, except as specified herein or approved by the engineer.

C Construction

C.1 Pavement Cleanup

Keep all pavements, curb lanes and gutters both closed and open to public traffic within the job-site boundaries free of dust and debris generated from any activity under the contract. Keep all pavements, curb lanes and gutters adjacent to the project free of dust and debris that are affected by land disturbing, dust generating activities, as defined in the contractor's dust control implementation plan.

Provide surveillance to identify if material is being tracked from the jobsite. Clean up spillage and material tracked from the project within an hour of occurrence or as directed by the engineer. Perform cleanup operations in a safe manner.

Provide routine sweeping of all pavements, curb lanes and gutters on local street active haul routes a minimum of once a day as defined in the Dust Control Implementation Plan (DCIP) or as directed by the engineer.

In addition to routine sweeping, conduct sweepings as the engineer directs or approves, to deal with dust problems that might arise during off-work hours or emergencies. Provide the engineer with a contact person available at all times to respond to requests for emergency sweeping. Respond to emergency sweeping requests within 4 hours.

If the vacuum-type sweeper breaks down, a mechanical broom sweeper may be substituted for no more than 24 hours total elapsed time. Repair the vacuum-type sweeper within that 24 hours or substitute a vacuum-type sweeper.

Skid steers with mechanical power brooms may only be utilized on sidewalks and driveways whose pavements will not support the weight of a street sweeper, unless otherwise approved by the engineer.

D Measurement

The department will measure Pavement Cleanup Project 2445-09-70 as a single lump sum for work acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER DESCRIPTION UNIT SPV.0105.0003 Pavement Cleanup Project 2445-09-70 LS

Payment schedule for this item will be in accordance to the percentage of contract value earned. Payment is full compensation for surveillance, mobilization, sweeping, and disposing of materials.

Schedule of Items

Attached, dated March 20, 2018, are the revised Schedule of Items Pages 1 – 16.

Plan Sheets

The following $8\frac{1}{2}$ x 11-inch sheets are attached and made part of the plans for this proposal: Added: (Project 2445-09-70): 1 – 88.

END OF ADDENDUM

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation 06/2017 s.66.0901(7) Wis. Stats

2445-09-70

Milwaukee

Proposal Number: 006

LOC STR

 COUNTY
 STATE PROJECT
 FEDERAL
 PROJECT DESCRIPTION
 HIGHWAY

 Waukesha
 1090-30-70
 WISC 2018190
 Rock Freeway; Crowbar Dr To Cth I
 IH 043

Pacific Rr Bridge

North Avenue: 115th St To Union

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required: \$100,000.00 Attach Proposal Guaranty on back of this PAGE. Payable to: Wisconsin Department of Transportation Firm Name, Address, City, State, Zip Code Bid Submittal Date: April 10, 2018 SAMPLE Time (Local Time): 9:00 am NOT FOR BIDDING PURPOSES Contract Completion Time December 15, 2018 This contract is exempt from federal oversight. Assigned Disadvantaged Business Enterprise Goal 15%

N/A

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date ______

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State Wisconsin)

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

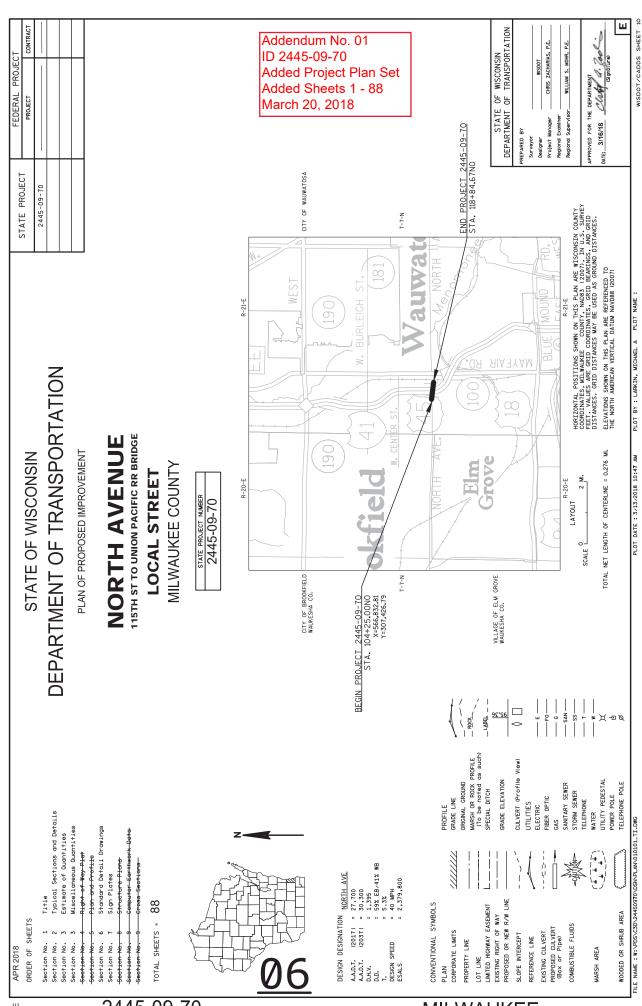
Type of Work:

For Department Use Only

Mill, Grade, Base, Storm Sewer, Concrete Pavement, Asphalt Pavement, Curb & Gutter, Concrete Barrier, Signing, Lighting, Concrete Panel Wall MSE R-67-131, 132, Marking, Structures B-67-109, 110, 114, 134, 135, 359

Notice of Award Dated

Date Guaranty Returned



UTILITY CONTACTS

7

AT&T WISCONSIN JEFF OLDENBURG 2005 PEWAUKEE RD WAUKESHA, WI 53188 (202) 866-752 CELL: (414) 412-7047 JO2376 @ATT.COM

CHARTER COMMUNICATIONS STEVEN CRAMER 1320 N DE MARTEN LUTHER KING JR DR MIL WAUKEE WI 52872-4002 PHONE: (414) 277-4045 GELL: (14) 688-2385 STEVE CRAMER @CHARTER.COM WIS. ENGINEERING @CHARTER.COM

WAUWATOSA, CITY OF - LIGHTING AND SIGNALS

11100 W WALNUT RD WAUWATOSA, WI 53226 PHONE: (414) 471-8429 CELL: (414) 248-0987 RMICHELZ @WAUWATOSA.NET

WAUWATOSA, CITY OF - SANITARY MIEM MAKI 7725 W NORTH AVE WAUWATOSA, WI 522:13 PHONE (414) 479-8911 MMAKI @WAUWATOSA, MET

OTHER AGENCIES

CITY OF WAUWATOSA – CITY ENGINEER
WILLIAM WERRLEY
725 W NORTH AVE
WAUWATOSA, WI 522 13
PHONE: (414) 479-823
WWEHRLEY @WAUWATOSA, MET

MILWAUKEE COUNTY TRANSIT SYSTEM MELANIE FLYNN COORDINATOR OO STREET OPERATIONS 1942 N. 17" STREET MISSOS PHONE: (414) 333-1764 MELYNN®MCTS.ORG

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION MR. ROB MERRY W239 N1812 ROCKWOOD DRIVE P.O. BOX 1607 WAUKSSHA, W 53187-1607 PHONE: [282) 953-4289 CELI: (820) 912-1038 mmry @sewpc.org

STATE AGENCIES

NATURAL RESOURCES KRISTINA BETZOLD- ENVIRONMENTAL SPECIALIST WISCONSIN DEPARTMENT OF

(CONTINUED ON NEXT SHEET)

2300 N DR. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 52712 PHONE: (414) 507-4946 KRISTINA, BETZOLD @WISCONSIN, GOV

WISCONSIN DEPARTMENT OF

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

TRANSPORTATION
LACI KAZAN, ENVIRONIMENTAL ANALYST
141 NW BARSTOW STREET
WALKESHA, WI 53187-0798
CELL: (414) 322-1429
LACI, KAZAN®DOT.WI. GOV

WISCONSIN DEPARTMENT OF

TRANSPORTATION CHRIS ZACHARIAS, PROJECT MAWAGER 141 NW BARSTOW ST. WAUKESHA, WI 53187-0798 PHONE: (262) 548-6716 CHRIS.ZACHARIAS @DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION GREG BERRY – UTILITY CONSTRUCTION 141 NW BARSTOW STREET WAUKESHA, WI 53187-0798 PHONE: (414) 750-7828 GREGORY.BERRY®DOT.WI.GOV

Dial 🗐 or (800) 242-8511 www.DiggersHotline.com

PROJECT NO: 2445-09-70

HWY: NORTH AVENUE

COUNTY: MILWAUKEE

GENERAL NOTES

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SHEET:

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY, WHICH IS NOT A MENBER OF THE DIGGERS HOTLINE MUST BE CONTRACTED SEPARATELY BY CONTRACTOR.

WHEN THE QUANTITY OF HIMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT YTHE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (S) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL.

THE ACTUAL LOCATIONS OF EROSION CONTROL BMPS WILL BE DETERMINED BY THE CONTRACTORS EGIP AND BY THE ENGOINGER. EROSION CONTROL BMPS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED ON UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

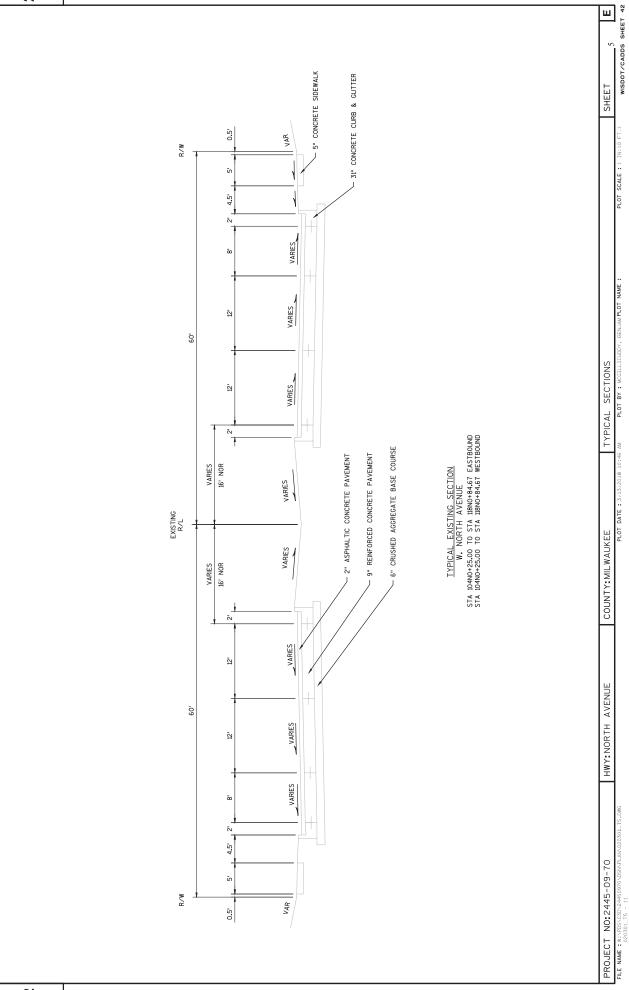
FERTILIZER SHALL NOT BE USED WITHIN 100' OF NAVIGABLE WATERWAYS OR WETLANDS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWREV) (JOHN WASHBURN) AT LEAST TITWO WEEKS PROJECT TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

SHEET: GENERAL NOTES COUNTY: MILWAUKEE HWY: NORTH AVENUE PROJECT NO: 2445-09-70

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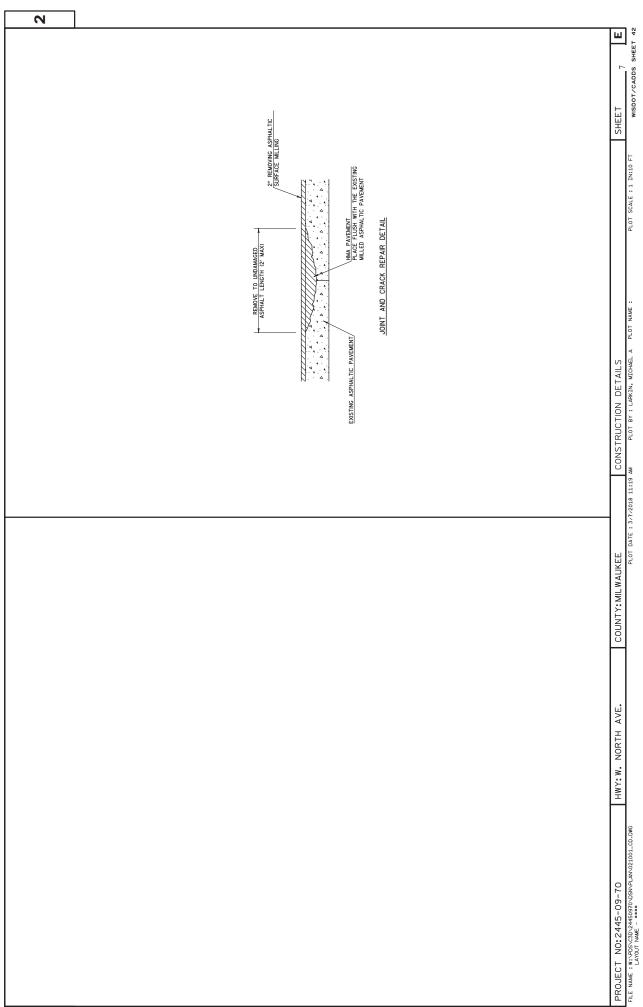


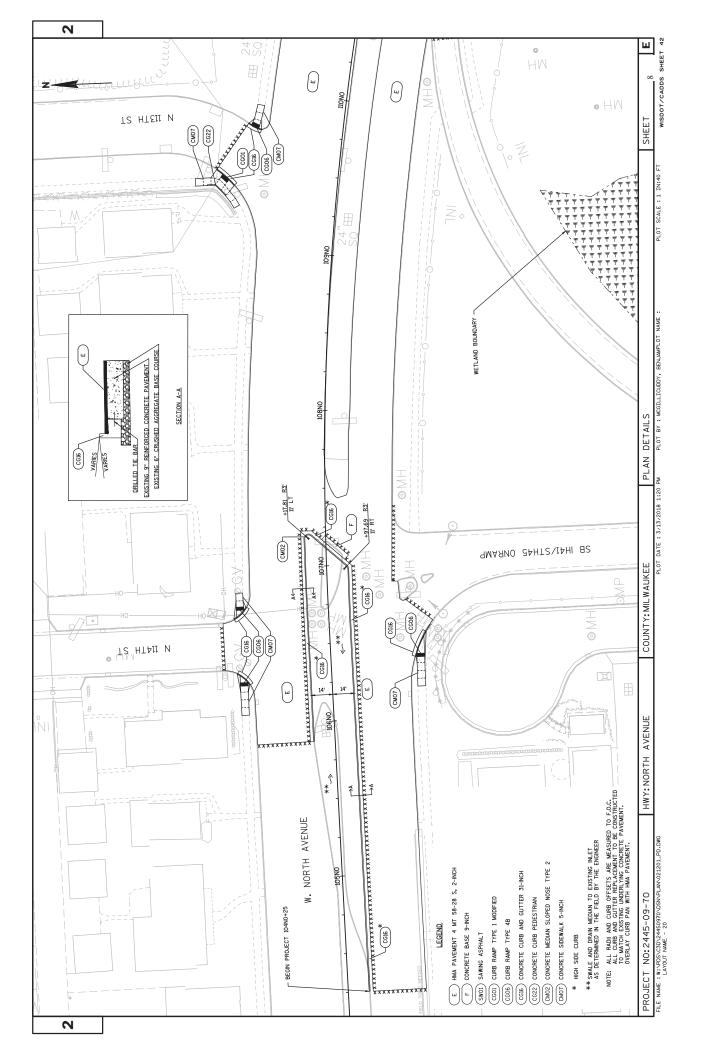
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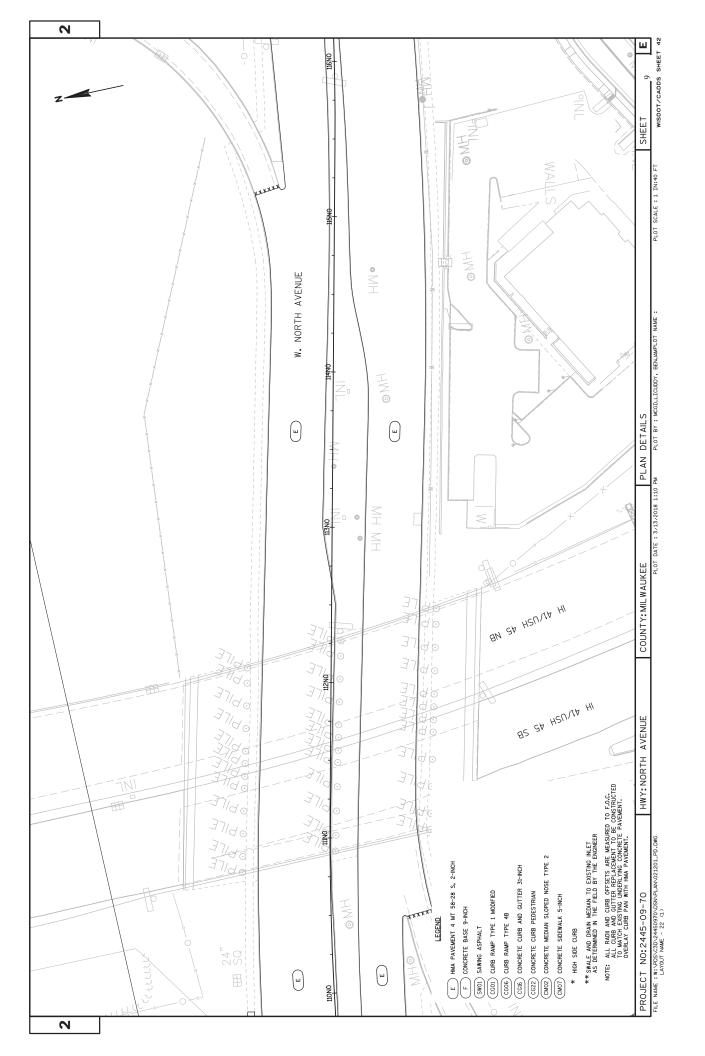
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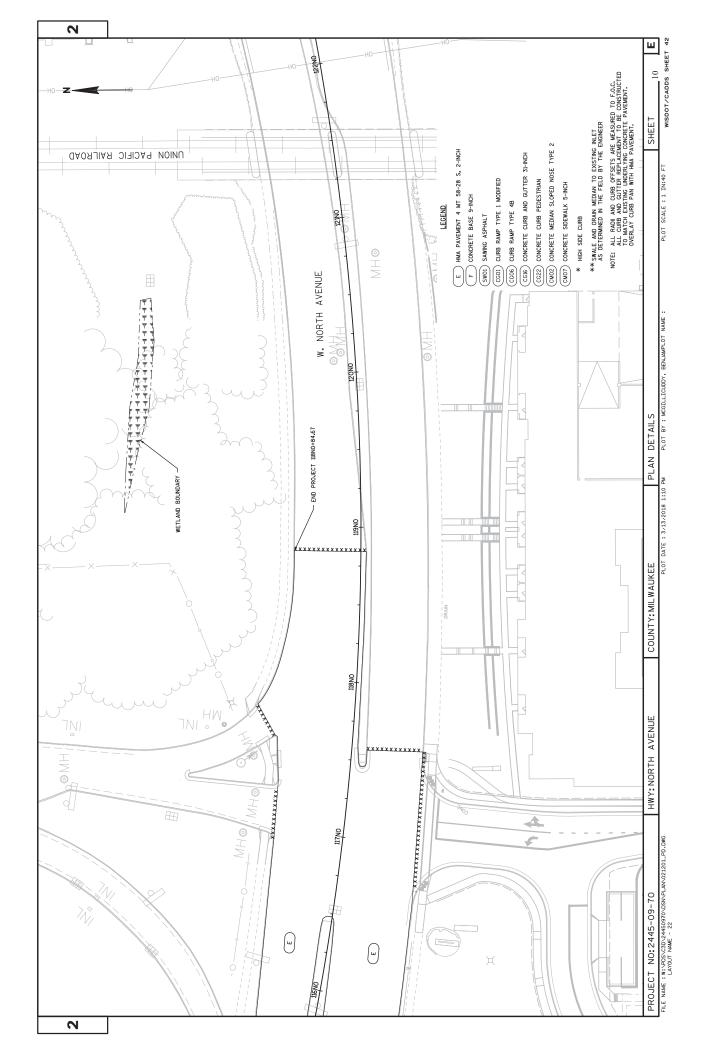
TYPICAL SECTIONS
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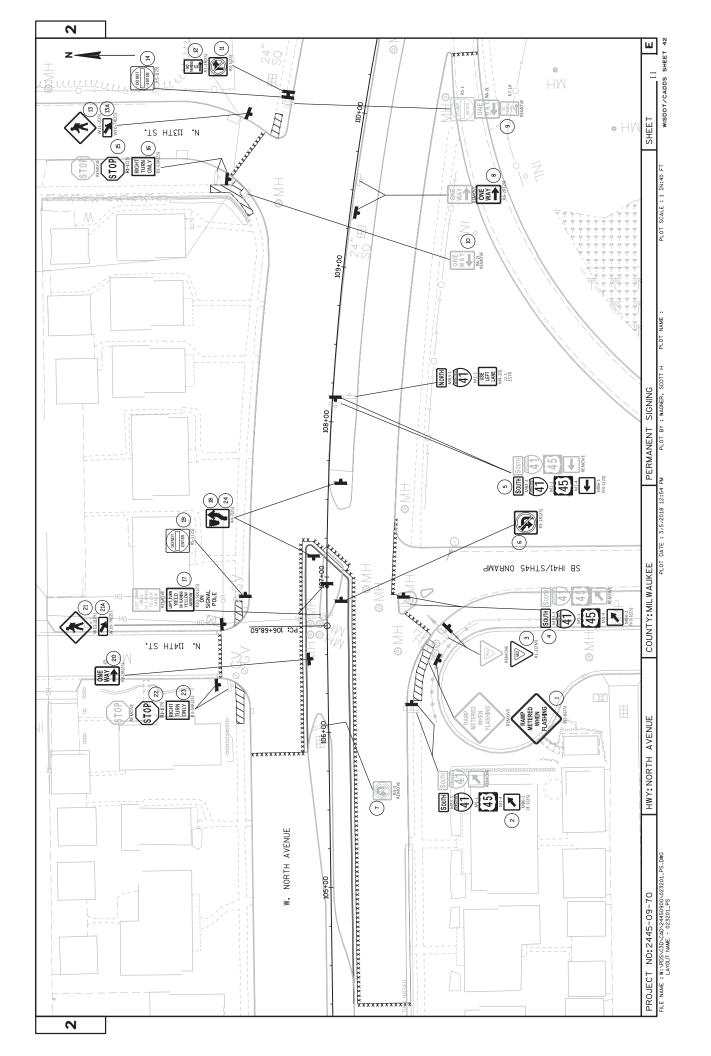
SHEET 6 **E**WISDOT/CADDS SHEET 42

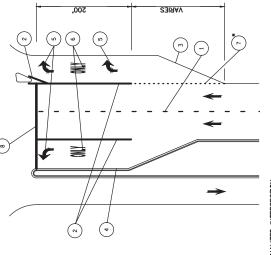












NOTE: SIGNALIZED INTERSECTION

* 7 DOT PATTERN NOT NEEDED IF CURB & GUTTER UNLESS ON CURVE

TYPICAL MARKING AT SIGNALIZED INTERSECTION CURB & GUTTER MEDIAN

- PAVEMENT MARKING 4" LANE LINE WHITE (12.5' LINE, 37.5' SPACE)

- 2 PAVEMENT MARKING 8" CHANNELIZING WHITE

 3 PAVEMENT MARKING 4" WHITE EDGELINE 45 MPH & GREATER

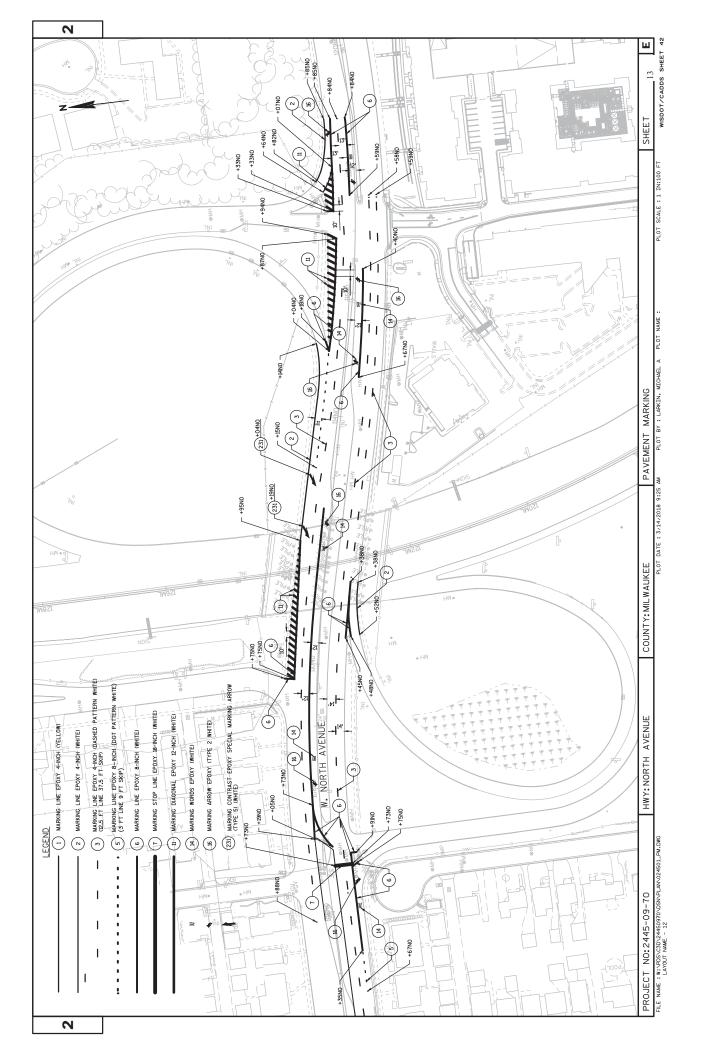
 4 PAVEMENT MARKING 4" YELLOW EDGELINE 45 MPH & GREATER
- PAVEMENT MARKING TYPE 2 ARROW
- PAVEMENT MARKING WORDS
- PAVEMENT MARKING 8" WHITE (3' LINE, 9' SPACE)
- PAVEMENT MARKING 18" STOP LINE

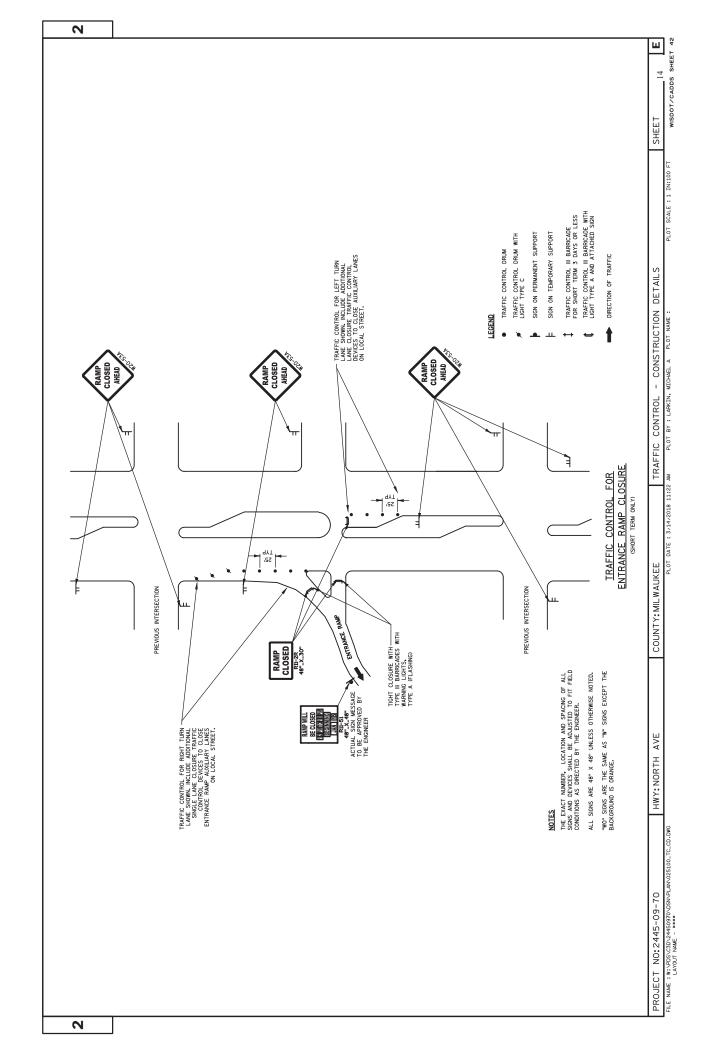
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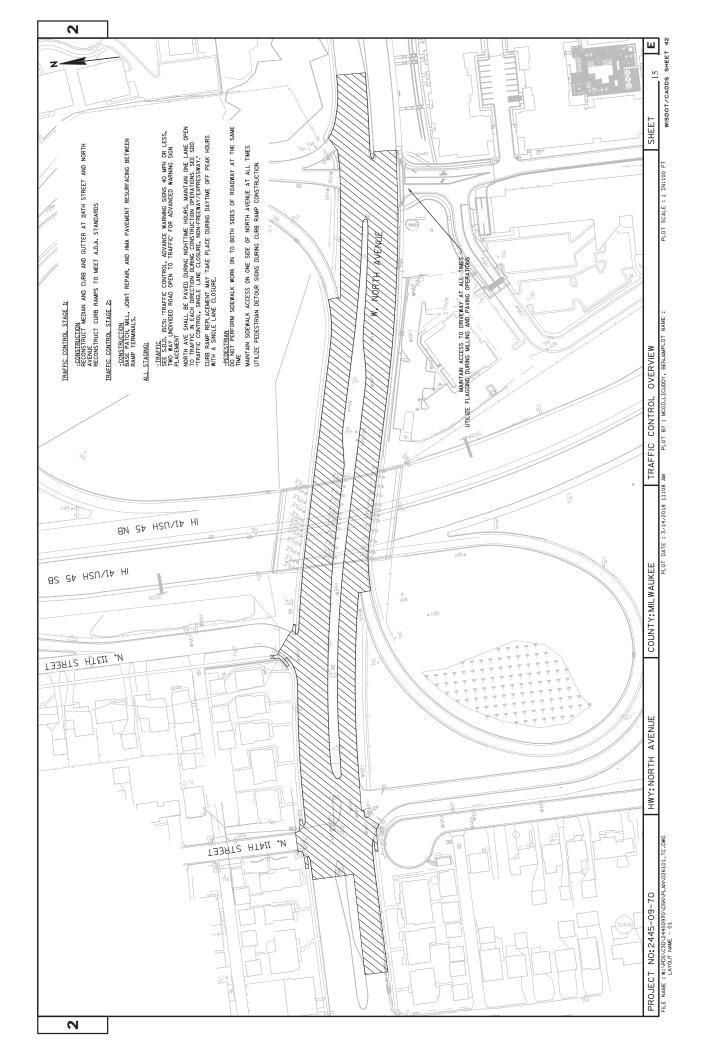
COUNTY: MILWAUKEE CONSTRUCTION DETAIL
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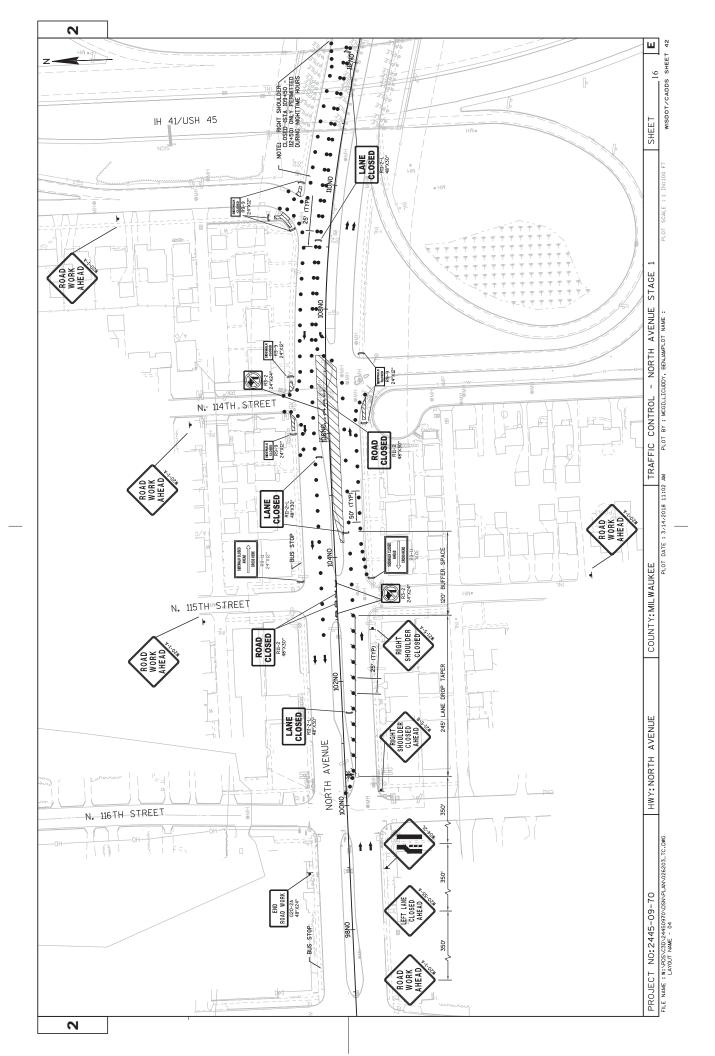
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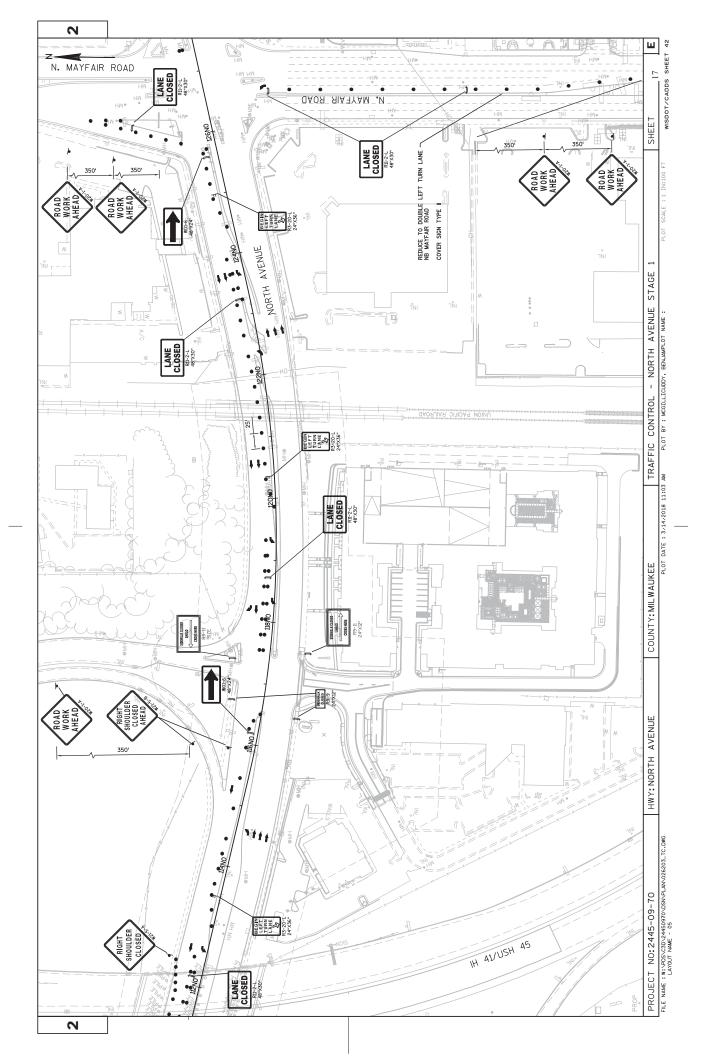
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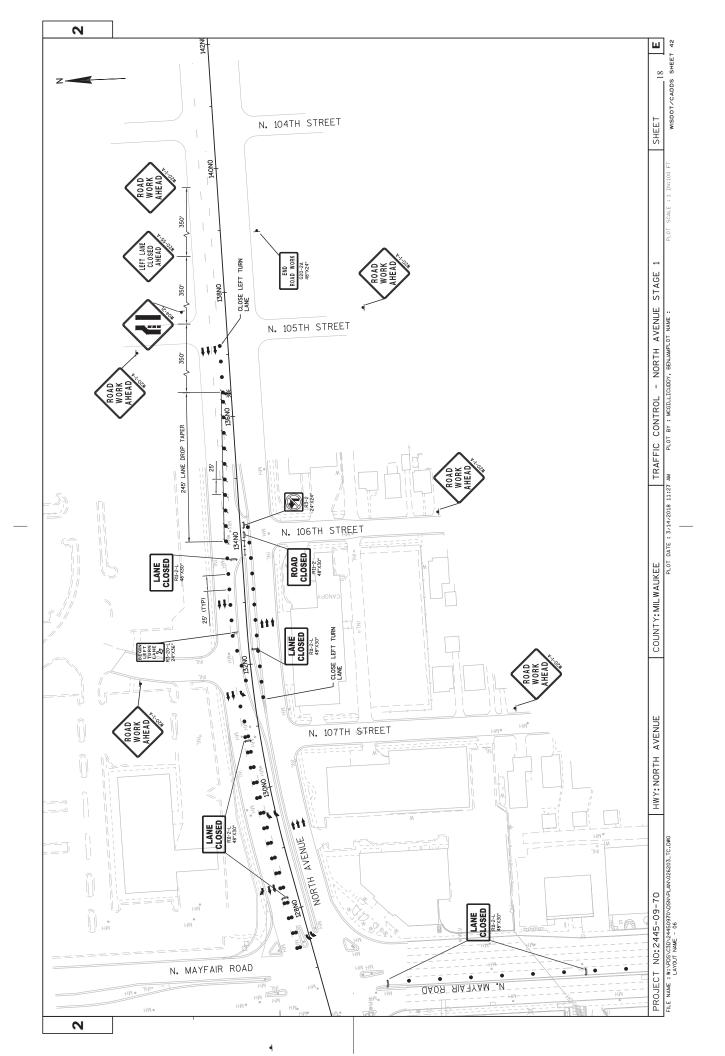


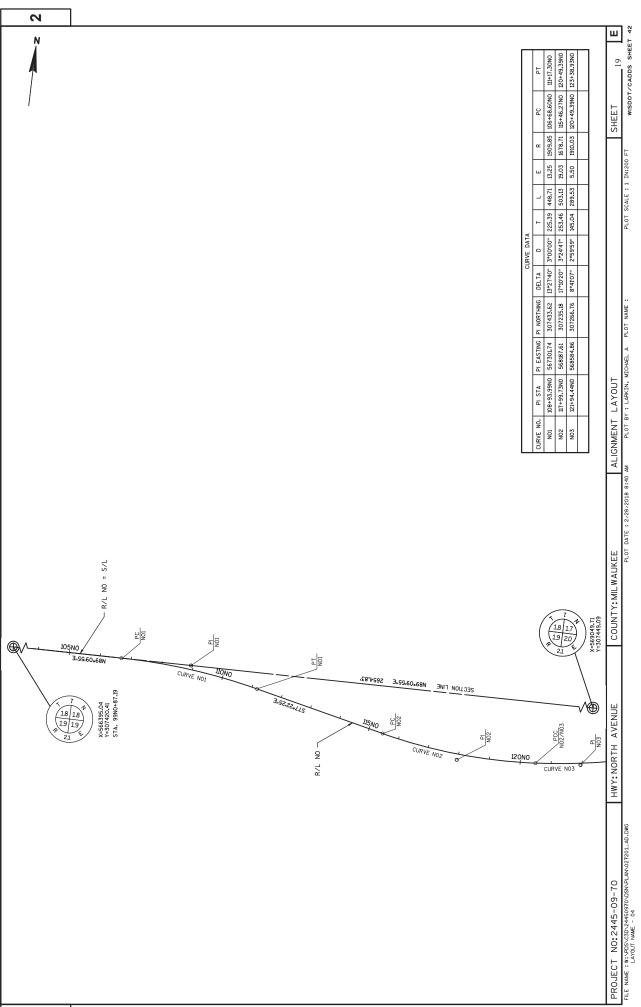


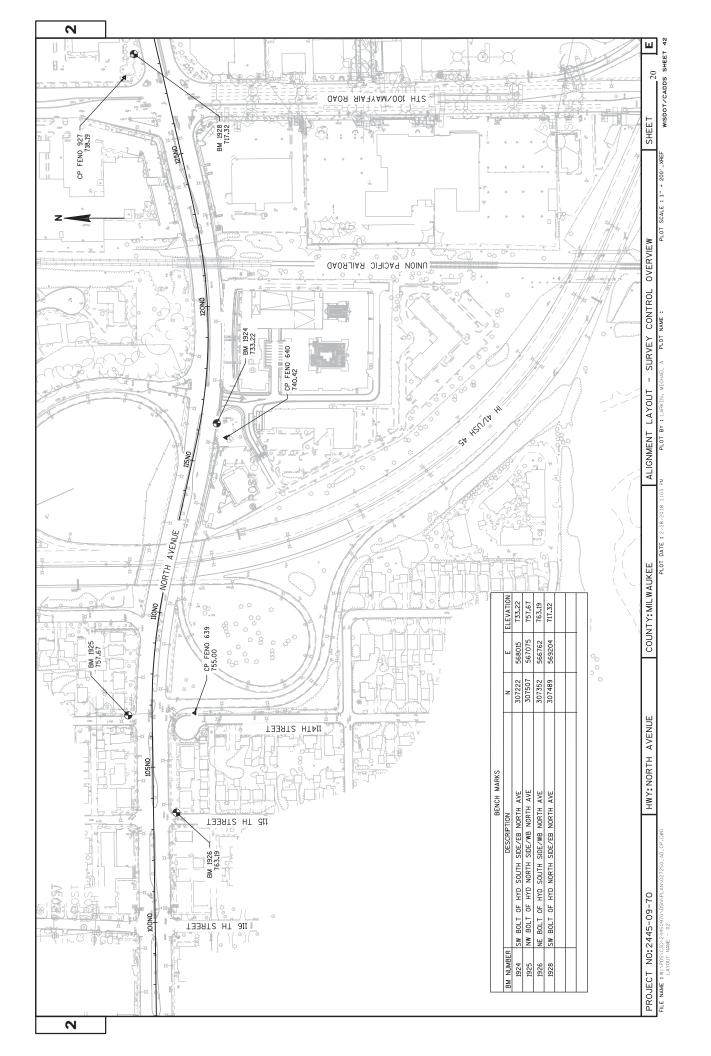


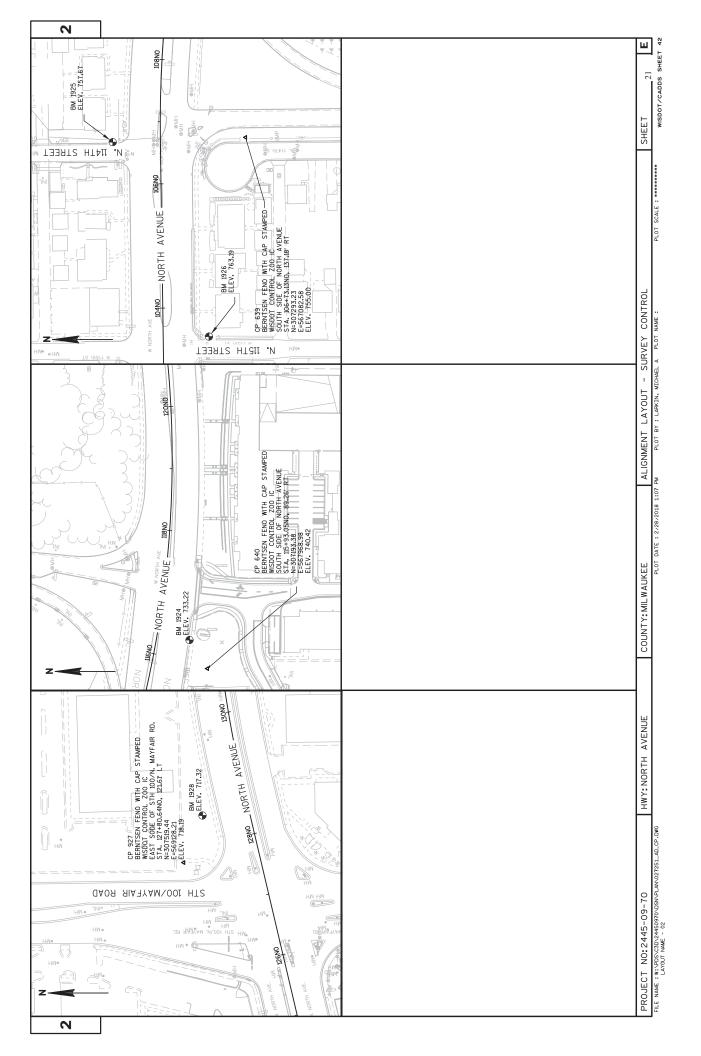












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2445-09-70	Qty	637.000	11,949.000	68.000	72.000	425.000	1.000	115.000	10.000	160.000	259.000	160.000	717.000	1,000.000	1,389.000	5.000	506.000	15.000	645.000	50.000	773.000	773.000	2.000	2.000	773.000	3.000	24.000	0.500	24.000	11.000	2.000	4.000	123.420	7.460	32.500	2.000	10.000	10.000	6,786.000	73.000	672.000
	Total	637.000	11,949.000	000'89	72.000	425.000	1.000	115.000	10.000	160.000	259.000	160.000	717.000	1,000.000	1,389.000	2.000	206.000	15.000	645.000	20.000	773.000	773.000	2.000	2.000	773.000	3.000	24.000	0.500	24.000	11.000	2.000	4.000	123.420	7.460	32.500	2.000	10.000	10.000	6,786.000	73.000	672.000
	Unit	SY	SY	님	SY	ζ	EACH	NOT	λS	λS	EACH	EACH	GAL	DOL	NOT	NOT	4	5	S	SF	λS	SY	EACH	EACH	SY	EACH	EACH	CWT	e P	EACH	EACH	EACH	SF	SF	SF	EACH	EACH	EACH	DAY	DAY	DAY
	Item Description	Removing Pavement	Removing Asphaltic Surface Milling	Removing Curb & Gutter	Removing Concrete Sidewalk	Borrow	Finishing Roadway (project) 0002. 2445-09-70	Base Aggregate Dense 1 1/4-Inch	Concrete Base 9-Inch	Base Patching Concrete Shes	Drilled Tie Bars	Drilled Dowel Bars	Tack Coat	Incentive Density HMA Pavement	HMA Pavement 4 MT 58-28 S	: Cold patch	Concrete Curb & Gutter 31-Inch	Concrete Curb Pedestrian	Concrete Sidewalk 5-Inch	Curb Ramp Detectable Warning Field Yellow	Topsoil	Mulching	Mobilizations Erosion Control	Mobilizations Emergency Erosion Control	Erosion Mat Urban Class I Type B	Inlet Protection Type A	Inlet Protection Type D	Fertilizer Type B	Seeding Mixture No. 40	Posts Wood 4x6-Inch X 18-FT	Posts Wood 4x6-Inch X 22-FT	Posts Tubular Steel 2x2-Inch X 16-FT	Signs Type II Reflective H	Signs Type II Reflective H Folding	Signs Type II Reflective F	Moving Signs Type II	Removing Signs Type II	Removing Small Sign Supports	Traffic Control Drums	Traffic Control Barricades Type II	Traffic Control Barricades Type III
	ltem	204.0100	204.0120	204.0150	204.0155	208.0100	213.0100	305.0120	320.0155	390.0403	416.0610	416.0620	455.0605	460.2000	460.6224	495.1000.S	601.0331	601.0600	602.0410	602.0505	625.0100	627.0200	628.1905	628.1910	628.2008	628.7005	628.7020	629.0210	630.0140	634.0618	634.0622	634.0816	637.2210	637.2215	637.2230	638.2102	638.2602	638.3000	643.0300	643.0410	643.0420
	Line	0020	0022	0024	0026	0052	0058	0062	0064	9900	0000	0072	8200	0800	9800	0094	0176	0182	0184	0186	0254	0256	0262	0264	0268	0274	0276	0284	0288	0294	0296	0298	0308	0310	0312	0316	0318	0320	0326	0328	0330

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2445-09-70	Qty	1,591.000	710.000	72.000	1,667.000	26.000	1,343.000	1,735.000	9.000	0.000	18.000	451.000	150.000	4.000	200.000	384.000	1,086.000	1,000.000	1.000	1.000
	Total	1,591.000	710.000	72.000	1,667.000	26.000	1,343.000	1,735.000	000.6	000.9	18.000	451.000	150.000	4.000	200.000	384.000	1,086.000	1,000.000	1.000	1.000
	Unit	DAY	DAY	DAY	DAY	EACH	ㅂ	님	EACH	EACH	느	님	님	EACH	ㅂ	님	느	느	rs	S
	Item Description	Traffic Control Warning Lights Type A	Traffic Control Warning Lights Type C	Traffic Control Arrow Boards	Traffic Control Signs	Traffic Control Covering Signs Type II	Marking Line Epoxy 4-Inch	Marking Line Epoxy 8-Inch	Marking Arrow Epoxy	Marking Word Epoxy	Marking Stop Line Epoxy 18-Inch	Marking Diagonal Epoxy 12-Inch	Marking Curb Epoxy	Marking Island Nose Epoxy	Temporary Marking Line Removable Tape 4-Inch	Sawing Asphalt	Sawing Concrete	Special 0001. Joint and Crack Repair	Special 0002. Survey Project 2445-09-70	Special 0003. Pavement Cleanup Project 2445-09-70
	Item	643.0705	643.0715	643.0800	643.0900	643.0920	646.1020	646.3020	646.5020	646.5120	646.6120	646.7120	646.8120	646.8220	649.0150	690.0150	690.0250	SPV.0090	SPV.0105	SPV.0105
	Line	0336	0338	0340	0342	0344	0358	0364	9980	0368	0370	0372	0374	0376	0382	0380	0392	0428	0436	0438

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	150 20 REN /ING COI SUTTER SID				11LWAUKE
	204.0150 FE RBMOVING CURB & GUTTER	89	89		COUNTY: MILWAUKEE
	** 204.0120 REMOV NG ASPHALTC SURFACE MILING SY	11,949	11,949		0
				CT ID 2445-09-70 213.0100.0002 FINISHING ROADWAY (2445-09-70) EACH 1	NE
REMOVALS	204.0100 REMOVING PAVEMENT SY	637	637 DEPTH S IS	NECT ID 2. 213.0 FINSHIK (244.)	HWY: NORTH AVENUE
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	STATION TO STATION	118+84NO	XH AREA, EXIS	FINISHING ROADWAY PROJECT ID 2445-09-70 213.0100.0002 FINISHING ROADWAY (2445-09-70) CATEGORY STAGE LOCATION EACH 1000 ALL PROJECT 1 TOTAL: 1	
	STATION	104+25NO	E BASE PATC L DEPTH CON	FINISH CATEGOR 1000	
	ROADWAY	W. NORTH AVE 104+25NO	TOTALS: "NOTE MILING OF CONCRETE BASE PATCH AREA, EXSTING FULL DEPTH CONCRETE PATCHES, AND FULL DEPTH CONCRETE UTILITY TRENCHES IS NODENTAL TO THIS ITEM.		5-09-70
	CATEGORY RC	1000 W. N	TOTALS: TOTALS: OTE: MILLING OF CC ORETE PA TCHES, A DENTAL TO THIS ITE		PROJECT NO: 2445-09-70
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	SPV.0090.0001 JOINT AND CRACK REPAIR LF	1,000	1,000					SHEET
	495.1000.S COLD PATCH TON	Ω	ω					5
	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	1,389	1,389		690.0250 SAWNG CONCRETE LF	606 480	1,086	
ITEMS	460.2000 NCENTIVE DENSITY HMA PAVEMENT DOL	1,000	1,000		602.0505 CURB RAMP DETECTABLE WA RNING FIELD Y ELLOW SF	- 20	50	
ASPHALTIC PAVEMENT ITEMS	455.0605 TACK COAT GAL	717	717		602.0410 CONCRETE I SIDEWALK W 5-NCH	645	645	
ASPHALTI	TO STATION	118+84NO			601.0600 CONCRETE CURB REDESTRIAN LF	5 1 1	15	SHIFT
	OT NOT TO	104+25NO			601.0331 CONCRETE CURB & GUTTER 31-INCH LF	206	506	MISCELL ANEOLIS OLIANTITIES
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	CATEGORY LOCATION	1000 M	 	CONCRETE ITEMS	416.0610 DRLLED TIE BARS EACH	169 10 80	259	
				CON	390.0403 BASE PATCHING CONCRETE SHES SY	160	160	COLINTY: MII WALIKEE
	20 = s,ATE 4-INCH				320.0155 CONCRETE BASE T SY	1 0 1	10	A. ALMIOS
	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	115	115		OFFSET	NO LT/RT		
IEMS	TO STATION	109+91NO			LOCATION	104+25NO 118+84NO 106+27NO 109+79NO		AVENIIF
BASE AGGREGATE ITEMS	STATION IT	104+25NO			ROADWAY	W. NORTH AVE 104. W. NORTH AVE 106. UNDISTRBUTED	ALS:	HWY: NORTH AVENUE
BASE	LOCATION	THAVE			CATEGORY RC	1000 W. N. W. W. UNDI	TOTALS:	
		W, NORTH AVE	TOTALS:		8			02-60
	CATEGORY STAGE	1000						PROJECT NO: 2445-09-70
ო								PROJEC

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						SEDING MIXTURE NO. 40	24	24	Ц	ш
						629.0210 FERTILIZER TYPEB CWT	0.5	0.5	Ė	ET:
						628.2008 EROSION MAT URBAN CLASS I TYPE B SY	773	773		SHEET:
						627.0200 MULCHING SY	773	773		PLOT SCALE: 1:1
					ON ITEMS	625.0100 TOPSOIL SY	773	773		PLOT S(
					RESTORATION ITEMS	LOCATION	LT/RT			
					낊		109+92NO			PLOT NAME :_
						STATION TO STATION	104+25NO		o Literatura	MISCELLANEOUS QUANTITIES
							AVE		CoilCan	NEOUS Q
						CATEGORY ROADWAY		TOTALS:	0 N	MISCELLAN ROTBY:
						CATEGO	1000			
					628.7020	INLET PROTECTION TYPE D EACH	19	24	ج n	JKEE PLOT DATE: 3/14/2018
			l		628.7005	INLET PROTECTION TYPEA EACH	2 -	ю	NAI VAN	COUNTY: MILWAUKEE
	690.0150 SAWING ASPHALT LF	384	384		628.1910 MOBILIZATIONS	EMERGENCY EROSION P CONTROL EACH	7 1	5		COUNI
	OFFSET	LT/RT		N.	628.1905	MOBLIZATIONS EROSION CONTROL EACH	7 1	7		
SAWING	STATION	118+84NO		INLET PROTECTION	θ	MOE C OFFSET	LT/RT			H AVENUE
SAV	STATION TO STATION	104+25NO		INLETF			119+94NO			HWY: NORTH AVENUE
	ROADWAY	W. NORTH AVE 104+25NO	TOTAL:			STATION TO STATION	105+95NO			
	CATEGORY	1000 W	l			ROADWAY	W. NORTH AVE 1 UNDISTRIBUTED	ώ		
	5							TOTALS:	24 00 78	2445-09-70
						CATEGORY	1000		CA FO	PROJECT NO: 2445-09-70
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							Ш
							T: 27
	DAY	26 1 1 2		MA RKING ISLAND NOSE EPOXY EACH	0 0	4	SHEET:
643.0920	TRAFFIC CONTROL COVERNG SIGNS TYPE II EACH	- 1 1		646.8120 MA RKING CURB EPOXY	80 20	150	
	DAY	1239 120 208 100 1,667		646.7120 MARKING DIAGONAL EPOXY 12-INCH WHITE	451	451	PLOT SCALE:1:1
643.0900	TRAFFIC CONTROL SIGNS FACH	2 7 7 8		646.6120 MARKING ISTOPLINE EPOXY 18-INCH IF	82 1	8	bro
000	C DAY	42 10 10 20 20 72		_			
643.0800	TRAFFIC CONTROL ARROW BOARDS EACH	N F		646.5120 MARKING WORD EPOXY TYPE 5 EACH EACH	m m	φ	S PLOT NAME:
	DAY	462 100 48 100 710		646.5020 MARKING ARROW FPOXY TYPE 5 EACH	1 0 0	o	NANTITIE
643.0715	TRAFFIC CONTROL WARNING LIGHTS TY PE C EACH	9 10 9		M A A TYRE 2 EACH	8 4 7		MISCELLANEOUS QUANTITIES PLOTBY:
	DAY	987 216 288 100 1,591	81	WHITE	333 1,336 1,669		MISCELLAN
. ITEMS 643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	4 4 7 12	RKING ITER	646.3020 MARKING LNE EPOXY 8-INCH TT SKIP		1,735	
TRAFFIC CONTROL ITEMS	DAY	504 20 48 100 672	PAVEMENT MARKING ITEMS	646.3 MARKIN EPO 8-IN 3 FT LINE 9 FT SKIP WHITE LF	48 48 66		JKEE PLOT DATE : 3/14/2018
TRAFFIC 643.0420	TRA FFIC CONTROL BARRICADES TY PE II EA CH	42 0 0	PAVE	il			COUNTY: MILWAUKEE
	. BAY	63 10 73		20 S LINE Y H KIP WHITE	73 457 530		COUNTY: N
140				646.1020 MARKNG LINE EPOXY 4-INCH 12.5 FT LINE, 37.5 FT SKIP WHITE LF	488 325 813	1,343	
643.0410	TRAFFIC CONITROL BARRICADES TY RE II EACH	φ I		12.5 FT LII			
000	FIC 3OL H DAY	5754 540 192 300 6,786		STATION	118+85NO 118+85NO		HWY: NORTH AVENUE
643.0300	TRAFFIC CONTROL IN DRUMS EACH	274 54 24 24		STATION	104+25NO 104+25NO		HWY: NO
	STAGE DURATION DAYS	B 8 710			₩		
	CCATION	W. NORTH AVE W. NORTH AVE RAMPS UNDSTRBUTED TOTALS:		LOCATION	W. NORTHAVE W. NORTHAVE	TOTALS:	
	CATEGORY STAGE LOCATION	+ 2 >> 5 J		CATEGORY	1000		15-09-70
	CATEGORY	1000		٦١			PROJECT NO: 2445-09-70 FILE NAME
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SURVEY PROJECT SPY 0105 0002 SPY PROJECT SPY PROJECT PROJECT 245-09-70 CATEGORY STAGE LOCATION LS 1000 ALL PROJECT 1 TOTAL: 1	TEMPORARY PAVEMENT MARKING ITEMS 649.0150 TEMPORARY MARKING TEMPORARY MARKING TO TEMPORARY MARKING TEMPORARY MARKING TO TEMPORARY TO TEMPORA	MISCELLANEOUS QUANTITIES SHEET: E
The state of the state	PAVEMENT CLEANUP SPV. 0105.0003 PAVEMENT CLEANUP PROJECT 2445-09-70 CATEGORY STAGE LOCATION LS 1000 ALL PROJECT 1 TOTAL: 1	PROJECT NO: 2445-09-70 HWY: NORTH AVENUE COUNTY: MILWAUKEE

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			SIGNS	SIGNS	SIGNS	REMOVING	REMOVING	MOVING			POSTS		
SIGN		SIGN	TYPEII	TYPE II	TYPE II	SMALL	SIGNS	SIGNS	POSTS	POSTS	TUBULAR	MOUNT	
CODE	SIGN	SIZE	REFLECTIVE	RELFECTIVE		SIGN	TYPE II		_		STEEL	ON SAME	
& SIZE	MESSAGE	× × [N]	н [SF]	F [SF]	H FOLDING [SF]	SUPPORTS [EA]	EA	= [E]	4" X 6" X 18' [EA]	4" X 6" X 22' [EA]	2" X 2" X 16' [EA]	POST AS	REMARKS / NEW SIGN LOCATION
130/06/1		>		18 000									E CO GETED MACTED ON THE CAM
₩ <i>3</i> -6(23) J3-1(2S)		24 × × 45	13.500	0.000		1.000	1.000		-				COLOR CANADA METER POLE
MB3-3		×											
M1-1	IH 41	24 X 24											
41M	USH 45	×											
MB6-2		×											
R1-2(2M)		×	7.000			1.000	1.000		-				
JV3-1(2S)			13.500			1.000	1.000			1			
MB3-3		×											
M1-1	IH 41	×											
M14	USH 45	×											
M6-2		21 X 21											
JV3-1(2S)		×	13.500			1.000	1.000			-			
MB3-3		×											
M1-1	IH 41	24 X 24											
M14	LISH 45	×											
MB6-1		×											
R3-18(2S)		24 × 24	4.000						-				
R3-4						1.000	1.000						
R6-2R(2S)		24 X 30	5.000			1.000	1.000		-				
R7-1R						1.000	1.000					<u>IE 0</u>	R6-2L AND R5-1 ARE PART OF SAME ITEM PER SPEC
R6-2L						1.000	1.000					,	
R3-1(2S)		×	4 000										
R7-1R(SS)		18 × 24	3.000						. ~				
W11-2(2S)		×		6.250							-		
W16-7R(2S)		24 X 12		2.000								13	
R5-1(2S)		×	6.250						-				
R1-12S)		×	7.460			1.000	1.000				-		
R3-53R(2S)		×	5.000									15	
R10-50L(2S)		×	7.500										
R4-7(2S)		×	5.000						-				
R5-1(2S)		×	6.250						-				
R6-2R(2S)		×	5.000						-				
W11-2(2S)		×		6.250							-		
W16-7R(2S)		×		2.000								21	
R1-12S)		30 × 30	7.460			1.000	1.000				-		
R3-53R(2S)		×	5.000									22	
R4-7(2S)		×	5.000						-				
UNDISTRIBUTED			:	:	7.460			2					
TOTALS			123.420	32.500	7.460	10.000	10.000	2	11	2	4		

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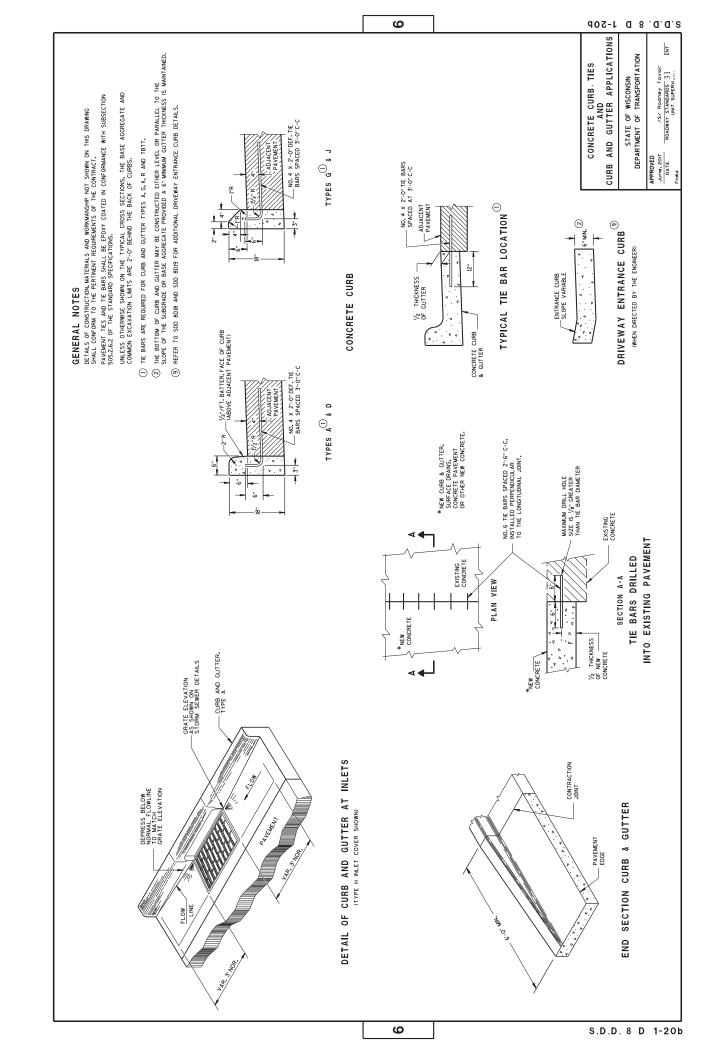
MISCELLANEOUS QUANTITIES PERMANENT SIGNING
ROTBY: ___DOTTAH PLOTNAME: 039501_mqpdf

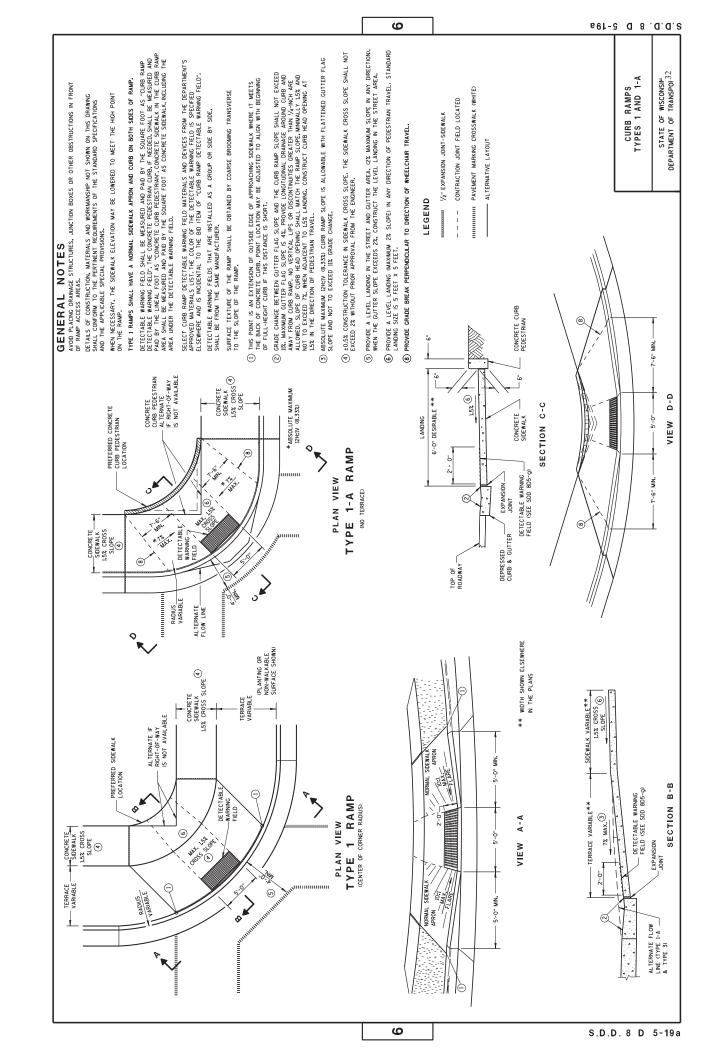
COUNTY: MILWAUKEE

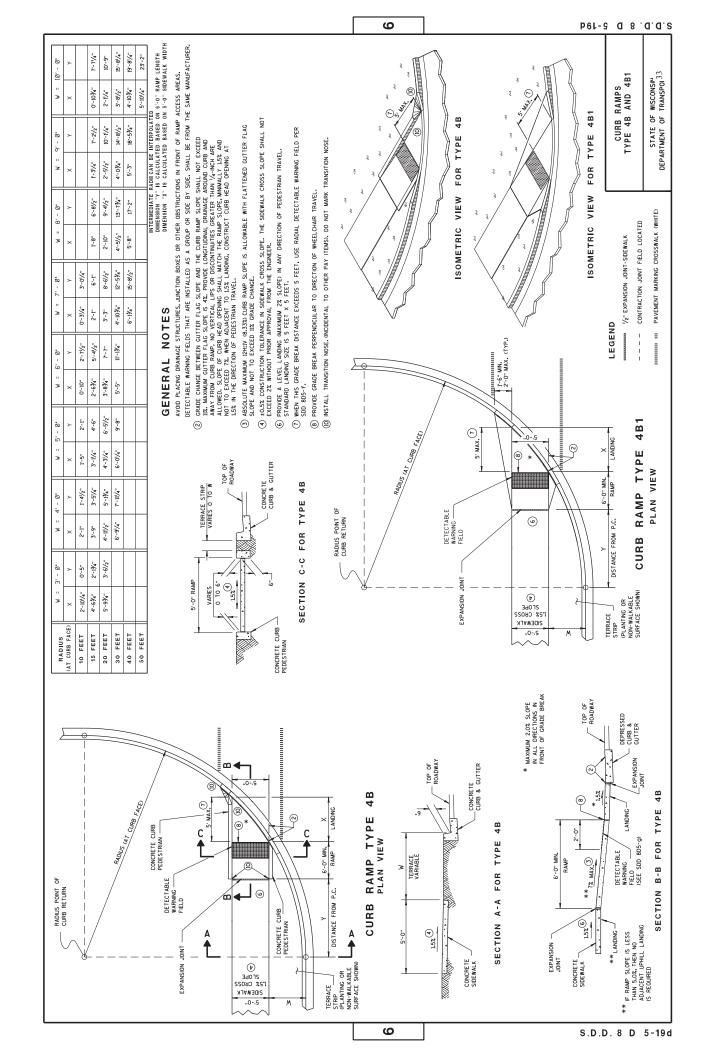
PROJECT NO: 2445-09-70 HWY: NORTH AVENUE FILE NAME: IN SPOOPERATIONS SIGNANGIAN SECURATIONS SIGNANGIAN SECURATIONS SIGNANGIAN SECURATIONS SIGNANGIAN SECURATIONS SIGNANGIAN SECURATION SECURATION SECURATION SECURATION SEC

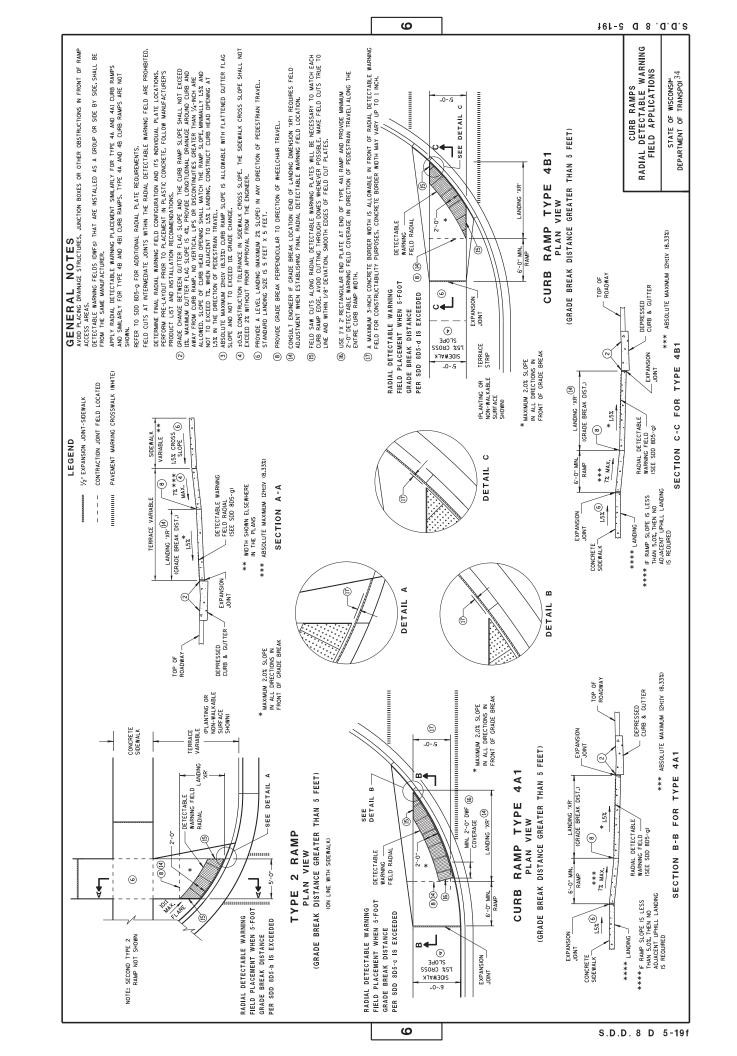
Standard Detail Drawing List

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS CURB RAMPS TYPES 1 AND 1-A CUBB RAMPS TYPE 48 AND 481	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES	INLET PROTECTION TYPE A, B, C AND D	CONCRETE MEDI AN NOSE	BASE PATCHING CONCRETE BASE PATCHING CONCRETE	BASE PATCHING CONCRETE	CONCRETE BASE	CONCRETE BASE	BARRI CADES AND SIGNS FOR MAINLINE CLOSURES	BARRI CADES AND SI GNS FOR SI DEROAD CLOSURES	BARRI CADES AND SIGNS FOR SIDEROAD CLOSURES	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS	PAVEMENT MARKING WORDS	PAVEMENT MARKING ARROWS	LONGI TUDI NAL MARKI NG (MAI NLI NE)	PAVEMENT MARKING (TURN LANES)	MEDIAN ISLAND MARKING	PAVEMENT MARKING (ISLANDS)	STOP LINE AND CROSSWALK PAVEMENT MARKING	PAVEMENT MARKING (INTERSECTIONS)		CONTROL, S	CONTROL,	CONTROL, F	CONTROL,	IRAFFIC CUNIRUL, PEDESIRIAN ACCOMMODATION
08D01-20B 08D05-19A 08D05-19D	08D05-19F 08D05-19G	08D16-10	08E10-02	11B02-02	13C14-06A	13C14-06C	13C15-06A	13C15-06B	15C02-06B	15C03-03	15C03-04	15C05-04	15C07-14B	15C07-14C	15C08-18A	15C08-18B	15C18-04	15C27-02B	15C33-02	15C35-01A	15D16-03	15D20-04	15D21-04	15D30-03A	15D30-03B	150-050



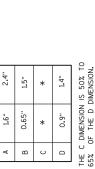


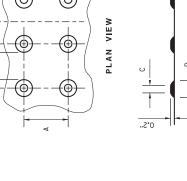




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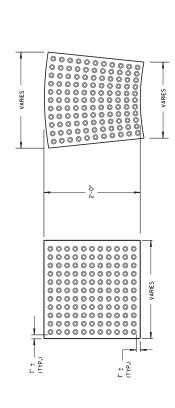
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DETECTABLE WARNING PATTERN DETAIL TRUNCATED DOMES

ELEVATION VIEW



DETECTABLE WARNING FIELDS (TYPICAL) RADIAL PLATES PLATES

RECTANGULAR

PLAN VIEW

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

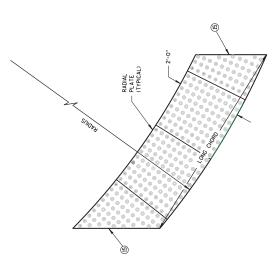
FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED. DETERMINE FRAIL RADIAL, WARNING FELD COPFICIBATION AND ITS INDVIDIAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE, FOLLOW MANUFACTURERS PRODUCT LISTA AND INSTALLATION RECOMMENDATIONS.

FOR ADDIAL DETECTEDEL WARNING TELD APPLICATIONS WHERE STANDARD RADDIAL PLATES ARE NOT AVAILABLE AT AM WIERSECTION CHER RADDIS, A COMBINATION OF SOLUARE OR RECTANGLIAR PLATES AND STADLA PLATES

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. SCHOULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORNIC RECURREMENTS OF FIELD-CUT PLATES.

(B) FELD SAW CUTS ALONG RADAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CLIRB ANNUE DOEL. AVOOR CUTTING THROUGH DOMES, WHENVER POSSIBLE. MAKE FIELD CUTS TRUE TO LIKE AND WITHIN LYDE DEVALTION. SMOOTH EDGES OF FIELD CUT PLATES.

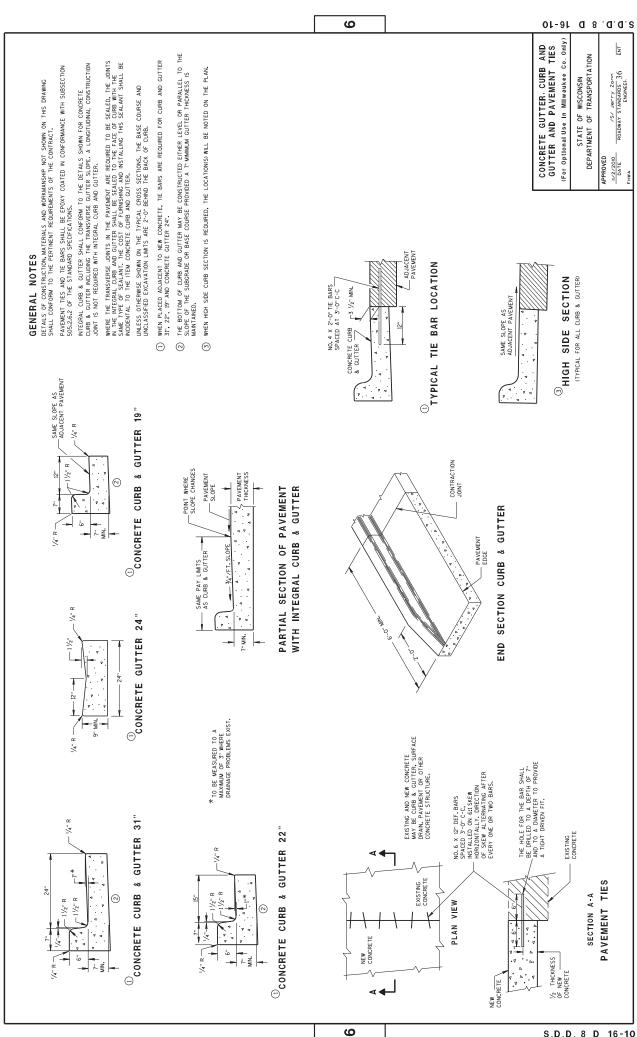


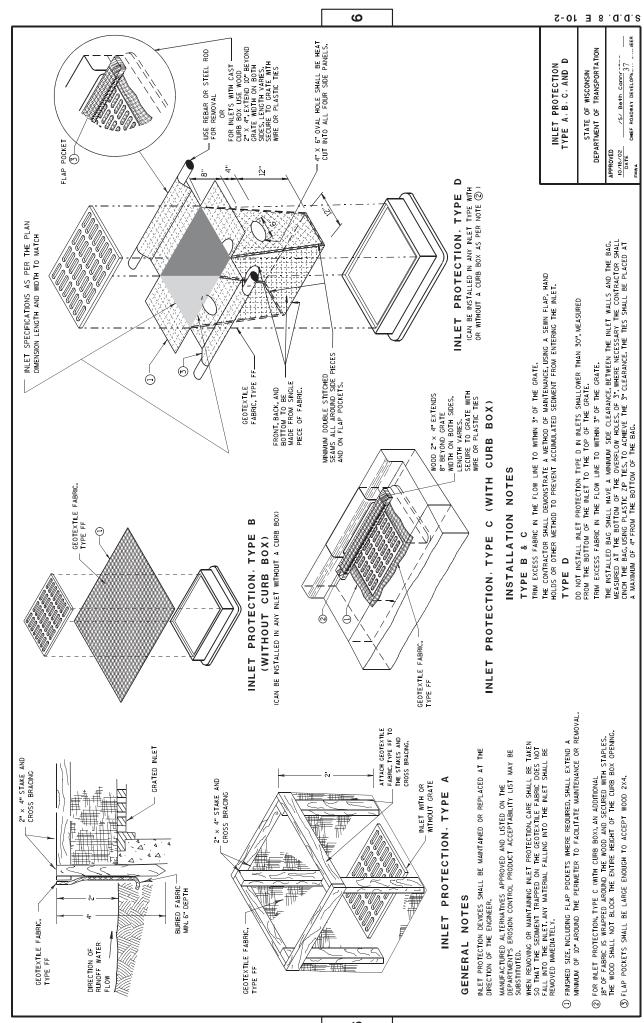
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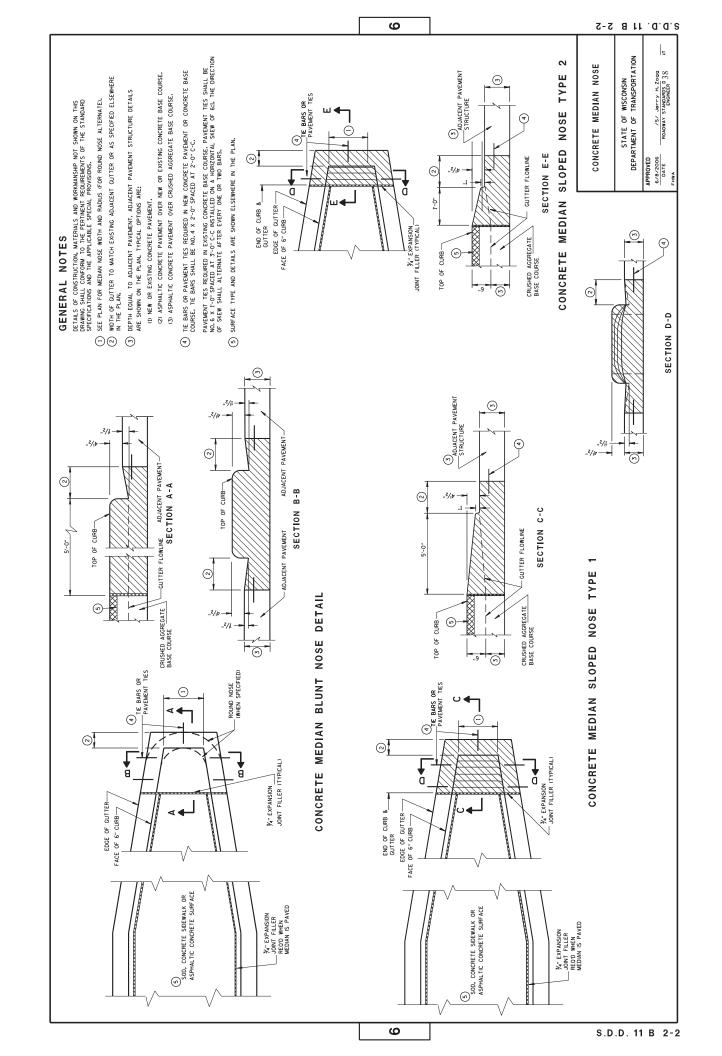
WARNING FIELD ATTRIBUTES RADIAL DETECTABLE

RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES CURB RAMPS

ENT STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED June, 2017 DATE







BASE PATCHING CONCRETE

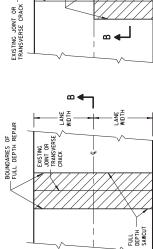
STATE OF WISCONSIMDEPARTMENT OF TRANSPOR³⁹

GENERAL NOTES

SAW CUT, DRILL, AND LET OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARES OF CONCRETE REPARR AGES, THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSDE THE REPARR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PRECES.

PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.





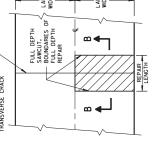
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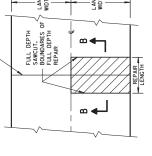
PLAN VIEW

12" MIN.

12" MIN.

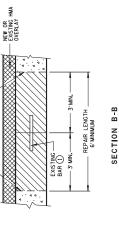
ASPHALTIC
PATCH
VARIABLE SIZE REPAIR LENGTH 6' MIN.







PLAN VIEW (DOUBLE LANE REPAIR)



FULL DEPTH SAWCUT

CONCRETE REMOVAL

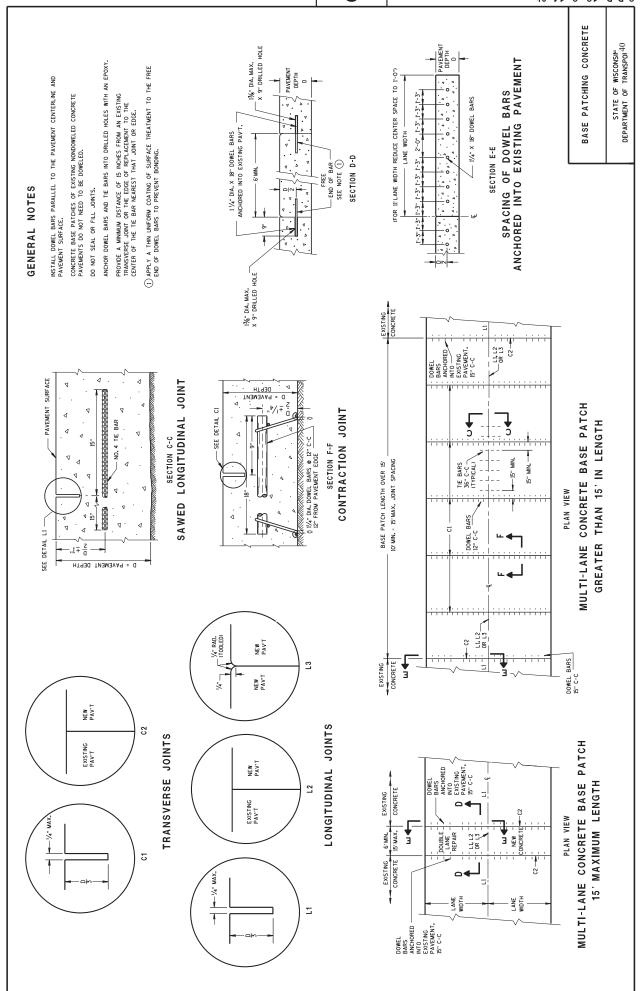
FULL DEPTH CONCRETE PAVEMENT REMOVAL

NEW OR EXISTING HMA OVERLAY SAWCUT SAWCUT FULL DEPTH SECTION A-A CRUSHED AGGREGATE G'MIN. BASE COURSE A EXISTING A I I

HMA PATCH REMOVAL

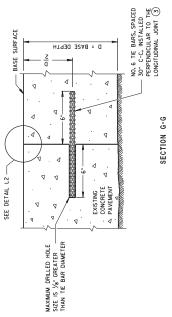
REMOVE PAVEMENT —— FULL DEPTH

REMOVE ASPHALTIC PATCH (VAR. DEPTH)

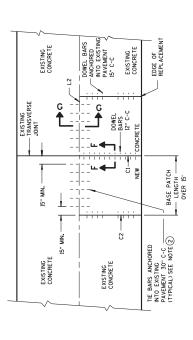


GENERAL NOTES

- $(\overline{\bf J})$ USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- (2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAM 30 FEET IN LENGTH, DRILLED THE BARS MAY BE INSTALLED ON SIL SKEW HORIZONTALLY, DRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR, DRIVE SKEWED THE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DUAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- (3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



TIE BARS ANCHORED INTO EXISTING PAVEMENT



C2 D EXISTING CONCRETE

CONCRETE

EXISTING CONCRETE

SINGLE LANE '

ANCHORED INTO EXISTING PAVEMENT C2-15" C-C

LANE

6' MIN. 15' MAX.

PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
GREATER THAN 15' IN LENGTH

STATE OF WISCONSIN

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2005

Sept., 2005

Sept., 2005

DATE

PAVEMENT SUFFR 41

EXISTING JOINT OR TRANSVERSE CRACK

CONCRETE
BOND BREAKER
SEE NOTE (1)

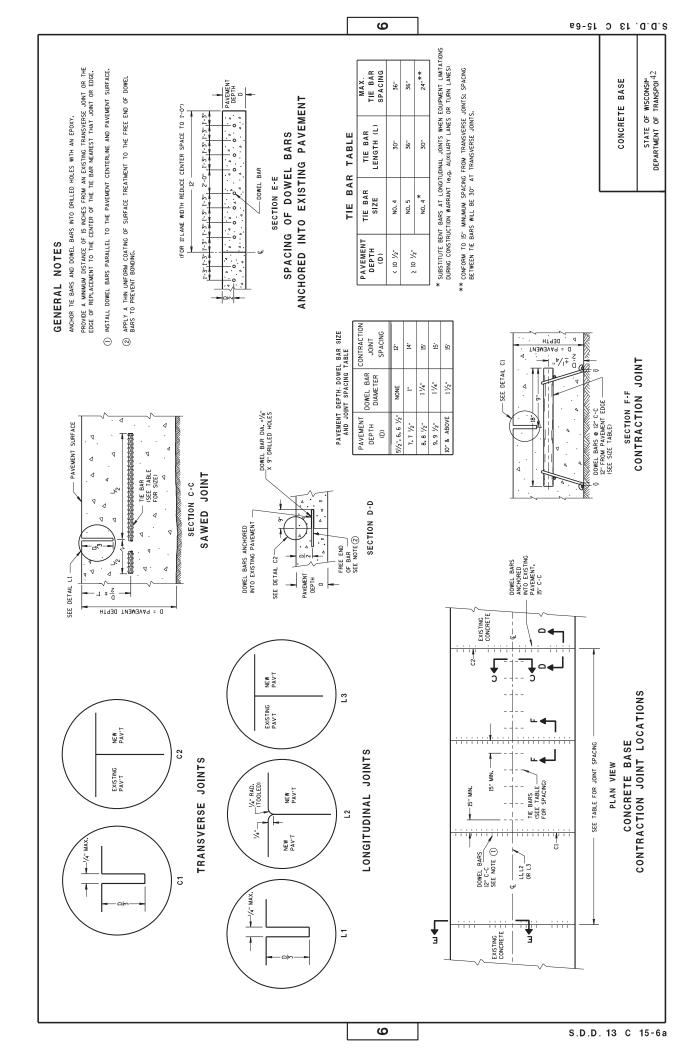
LANE

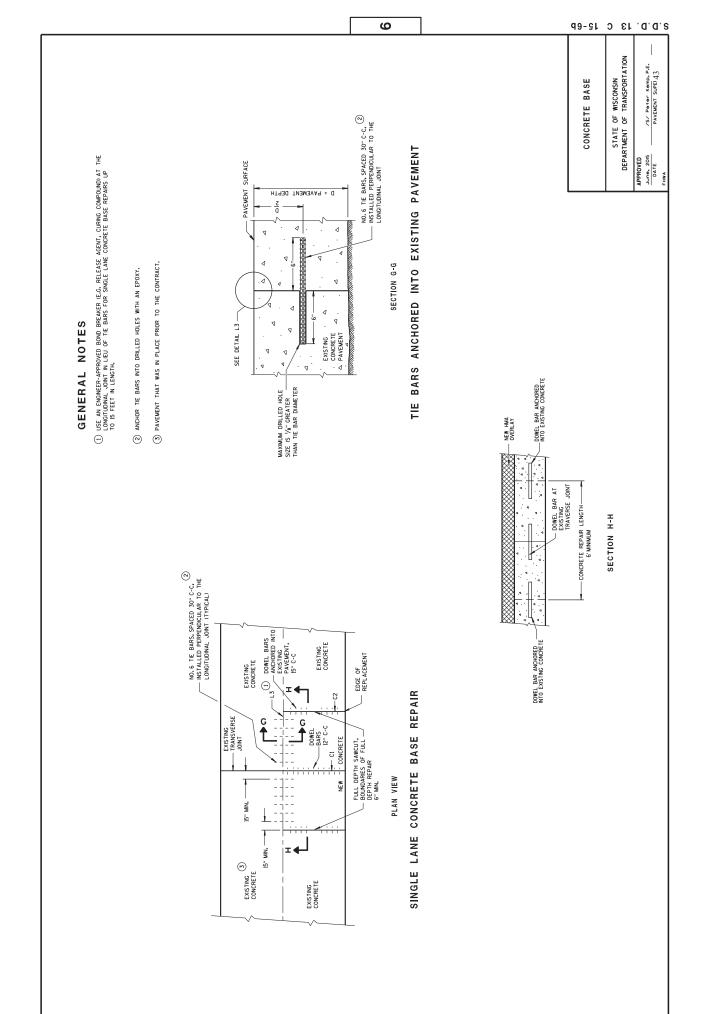
EXISTING

SINGLE LANE CONCRETE BASE PATCH

PLAN VIEW

15' MAXIMUM LENGTH





BARRICADES AND SIGNS

MAINLINE CLOSURES

/S/ Peter Amakobe Atepe STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STATEWIDE WORK ZO 44 Sept. 2015 DATE

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER,

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY. THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE II BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES, STRPES SHALL BE PROPERTY SLOPED DOWN TOWARD THE TRAFIC SDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE BARRICADE BARRICADE.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

BRIDGE OUT

띩 (0)

ROAD CLOSED RII-2

OUTSIDE EDGE OF SHOULDER
OR FACE OF CURB

CLOSURE BARRICADE DETAIL

ROAD

DETAIL D

OUTSIDE EDGE OF SHOULDER OR FACE OF CURB APPROACH VIEW

ROAD CLOSED TO THRU TRAFFIC

TWO-WAY
TYPE "A" WARNINGLIGHTS REQUIRED

THE RIL-2, RIL-3, M4-9, RIL-4 AND RIO-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
RII-2 SHALL BE 48" X 50".
RII-3 SHALL BE 48" X 50".
MA-9 SHALL BE 20" X 24".
MA-8 SHALL BE 27" X 2". GGS X 26".
MA-8 SHALL BE 24" X 2". GGS X 18" F REEDE TO MATCH EXISTING SIGNS.)
MA-4 SHALL BE 24" X 2". GGS X 18" F REEDE TO MATCH EXISTING SIGNS.)
MA-5 IAMD WGG-1SHALL BE 24" X 24". GGS X 36" F REEDE TO MATCH EXISTING SIGNS.)
DI-X SHALL BE A AS SHOWN ON SPECIFIC PROJECT SIGNNG DETAIL SHEETS.
RI-1SHALL BE 36" X 36".

TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX, 8-FOOT (-)

FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON RII-2 AND RII-3 SIGNS.

LIGHT SPACING).

FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D. THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

INSTALL DETOUR AND COMMAINTY GUDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXSTRUCTED THANKER ASSEMBLIES THAT MILL BEARMIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE ENSITING ASSEMBLES, MODIF TEXTING SIGNS WHERE POSSIBLE. SEE SECHIEF, PROFECT DETOUR SIGNING DETAIL SHEETS, IF DETOUR SIGNS ARE BEING INSTALLED BY COHTERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUDE SIGNS AS SHOWN. ω

"EAST" CARDINAL DIRECTION MARKERS AND RICHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE. (P)

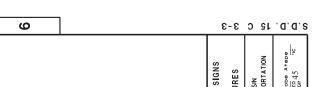
OFFSET BARRICADES 50' AS SHOWN ON DETAIL B

LANE CLOSURE BARRICADE DETAIL

DETAIL E

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND



GENERAL NOTES

LAST INTERSECTION PRIOR TO CLOSURE

ROAD CLOSED R11-2

W20-3A

@**1**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINAMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE, IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PRESTOD FOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY. SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RALIS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE BETALL D'FOR FULL ROAD CLOSHARS.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE RII-2, RII-3 AND RII-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: RII-2 SHALL BE 48" X 30". RII-4 AND RII-3 SHALL BE 60" X 30".

LAST INTERSECTION PRIOR TO CLOSURE

W20-3A

ROAD

FOR BRIDGE OR CULVERT
REPLACEMENT, USE ADDITIONAL
SIGN ON BARRICADE
BRIDGE OUT
XX WILES AHEAD

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).

DETAIL 2

*OMIT THE "ROAD CLOSED 500 FT," SIGN IF THE LAST INTERSECTION IS 500 FT, OR LESS FROM THE WORK ZONE.

**500'MAX, OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

A TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION BARRICADES AND SIGNS /S/ Peter Amakobe A:
STATEWIDE WORK ZO 45
SAFETY ENGIR SIDEROAD CLOSURES APPROVED Sept. 2015 DATE

9

(NO ACCESS TO PROJECT)

DETAIL 1

LAST INTERSECTION PRIOR TO CLOSURE -

S.D.D. 15 C 3-3

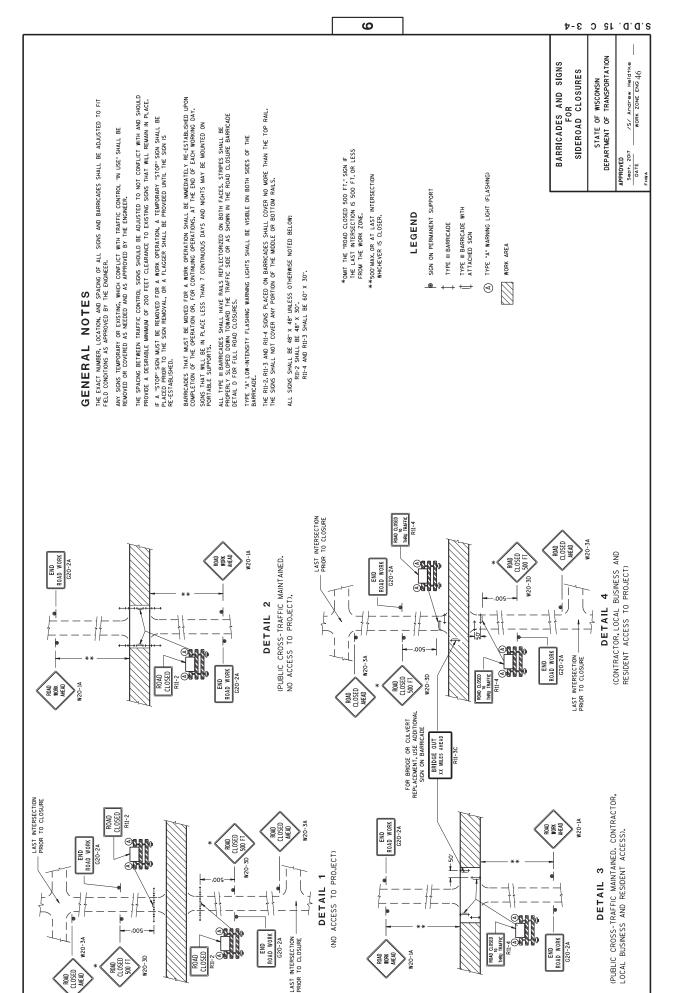
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 3

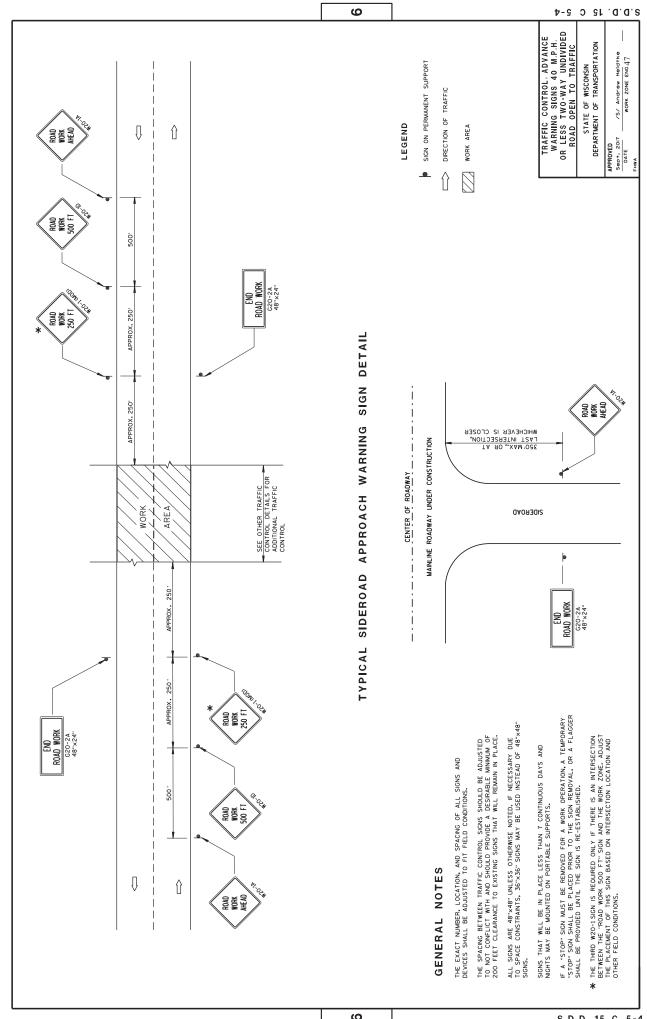
(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

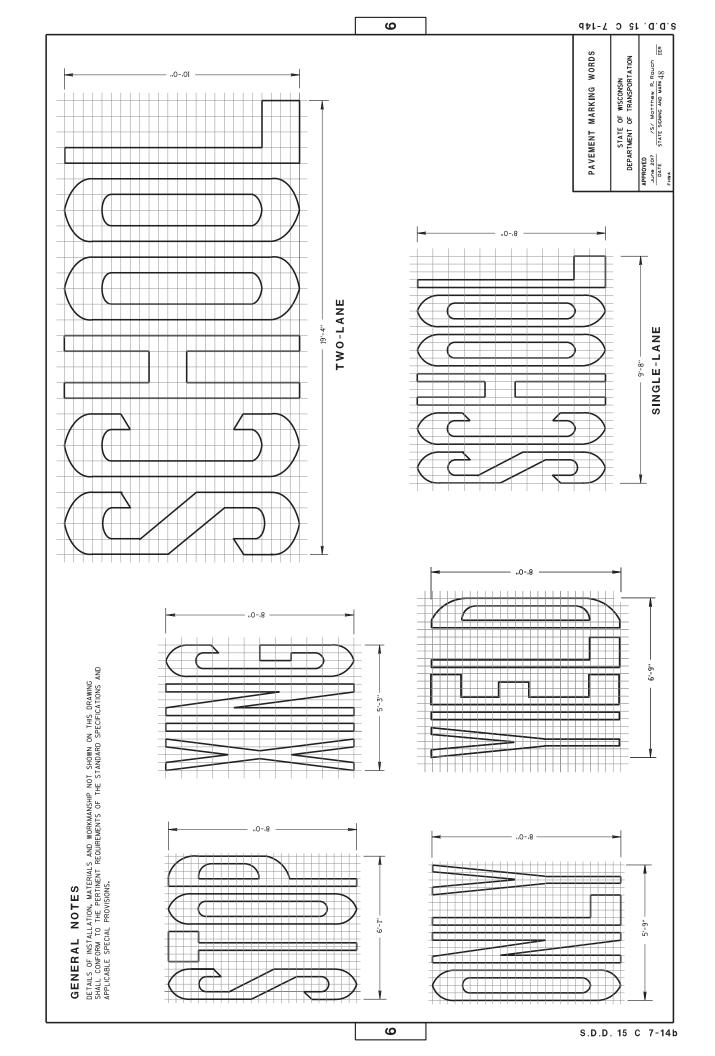
DETAIL 4

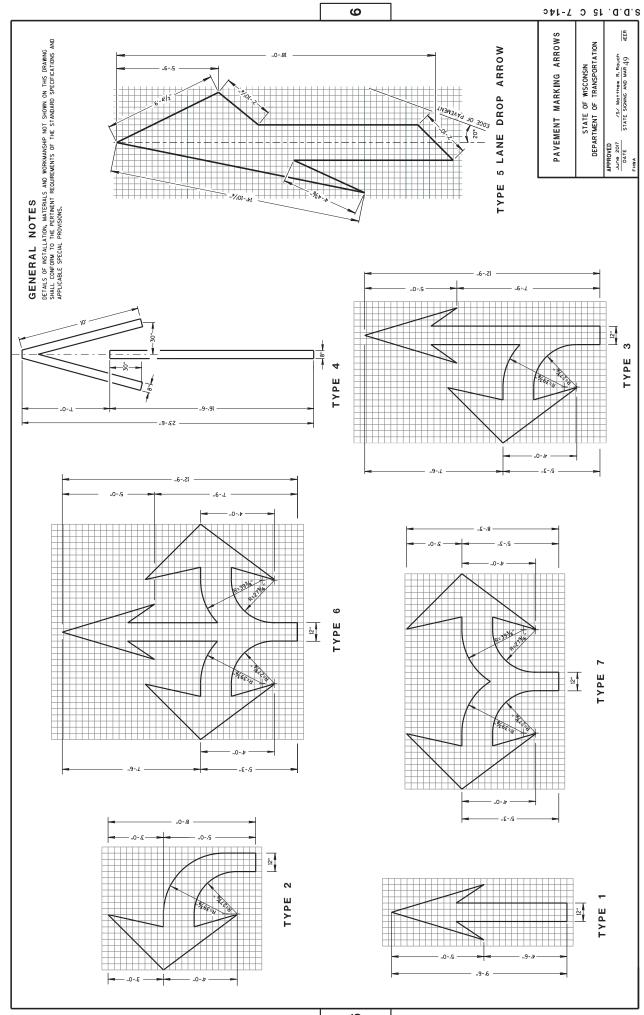
LAST INTERSECTION PRIOR TO CLOSURE

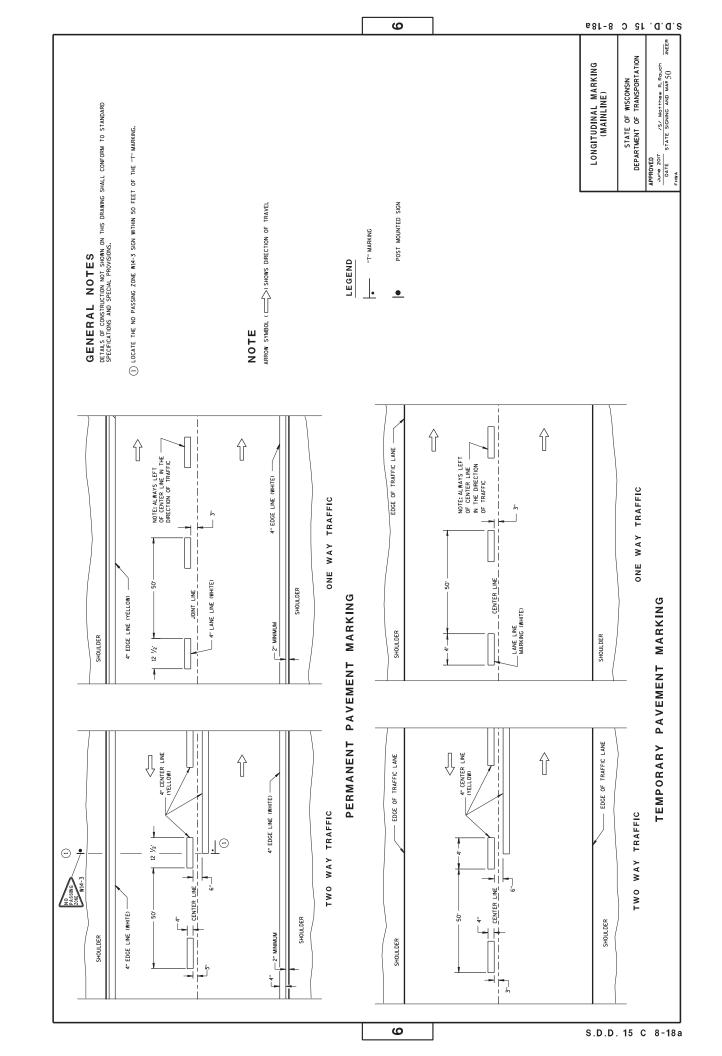


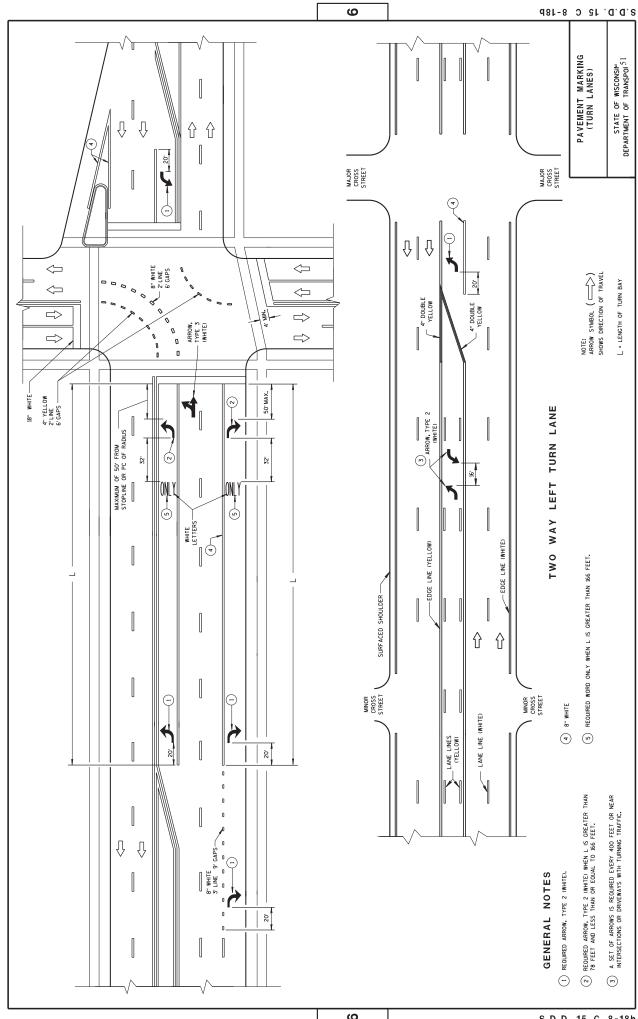
ROAD

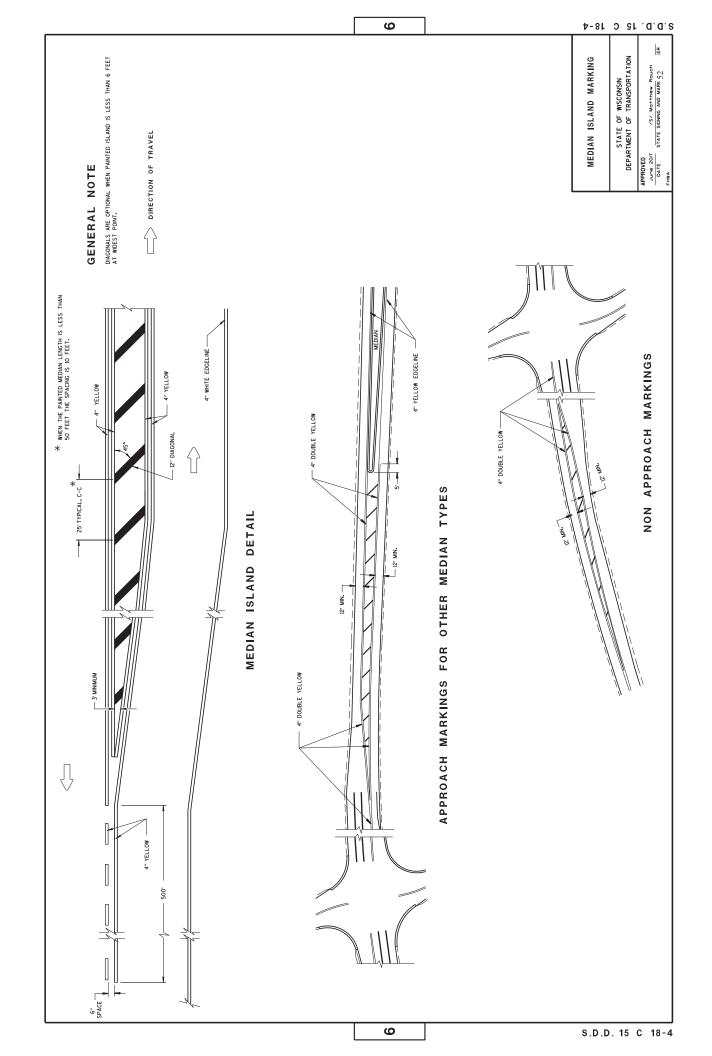












PAVEMENT MARKING (ISLANDS)

ER. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Matthew Rauch STATE SIGNING AND MARK 53 APPROVED
June 2017
DATE
S
FHWA

ISLAND NOSE MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

CURB MARKING

GENERAL NOTES

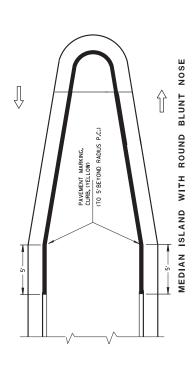
COORUGATED MEDIAN MARKING, (YELLOW) (TYPICAL)

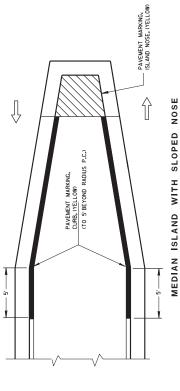
TRAFFIC CORRUGATED WEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATIVE IN THE OPERATIVE THE PROPSING PRECENTON YELLOW PACKENIN MARKING SHALL BE APPLED TO THE FLAT POPITION OF THE CONCRETE CORRUGATED MEDIAN, THE TIEM OF PAREMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MASAURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE FOOT.

MEDIAN ISLAND WITH SQUARE BLUNT NOSE

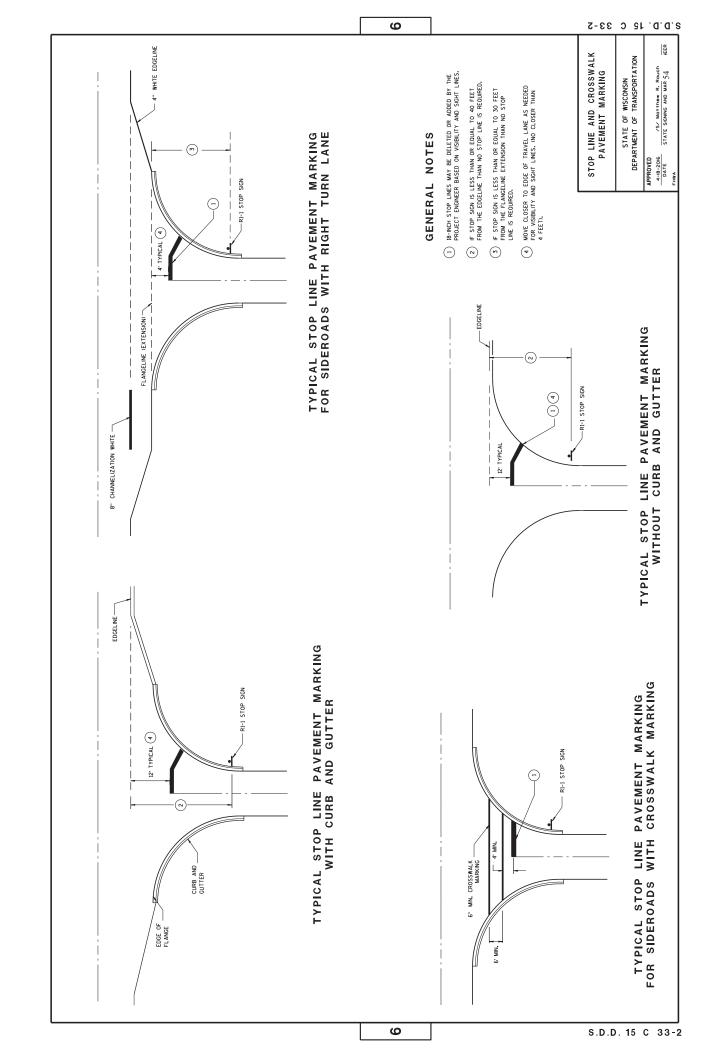
CORRUGATION IF PRESENT

PAVEMENT MARKING, ISLAND NOSE, (YELLOW)





TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



STATE OF WISCONSINDEPARTMENT OF TRANSPOF⁵⁵

PAVEMENT MARKING (INTERSECTIONS)

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

GENERAL NOTES

÷ 50.

() WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

MINOR INTERSECTION WITHOUT CURBS

SIDE ROAD

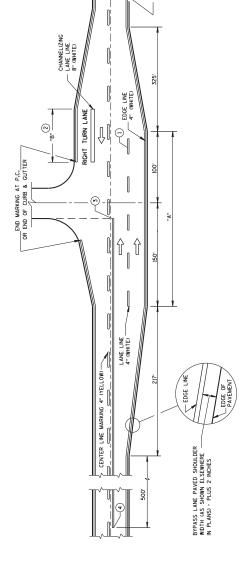
END MARKING WHERE
CORNER RADIUS BEGINS —
OR CURB BEGINS

0

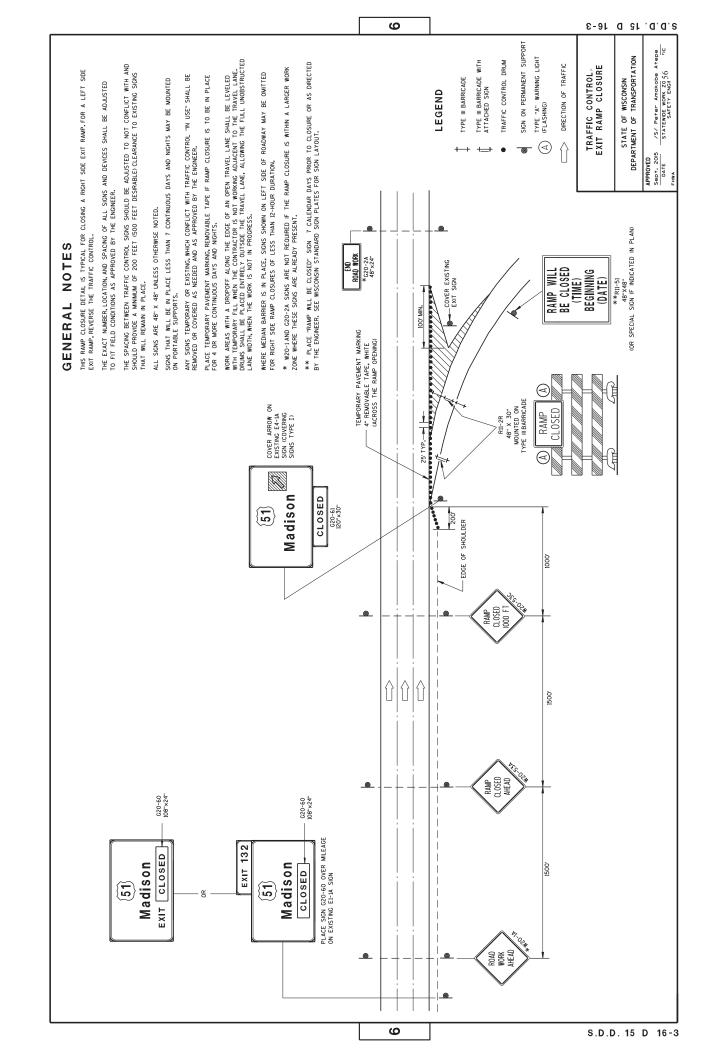
0

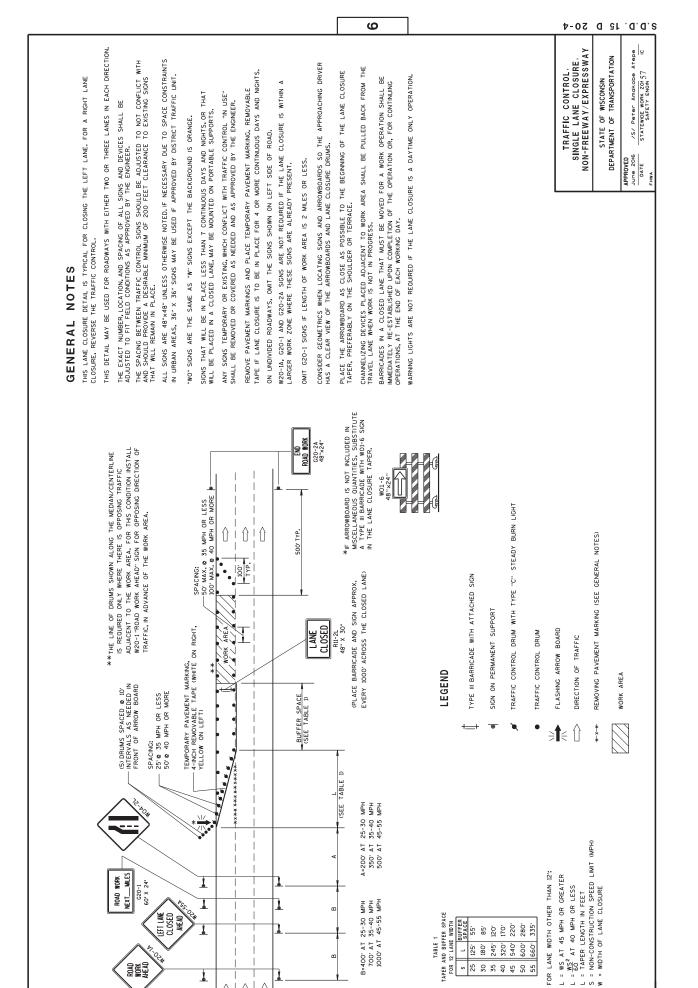
THROUGH HIGHWAY

EDGE LINE MARKING

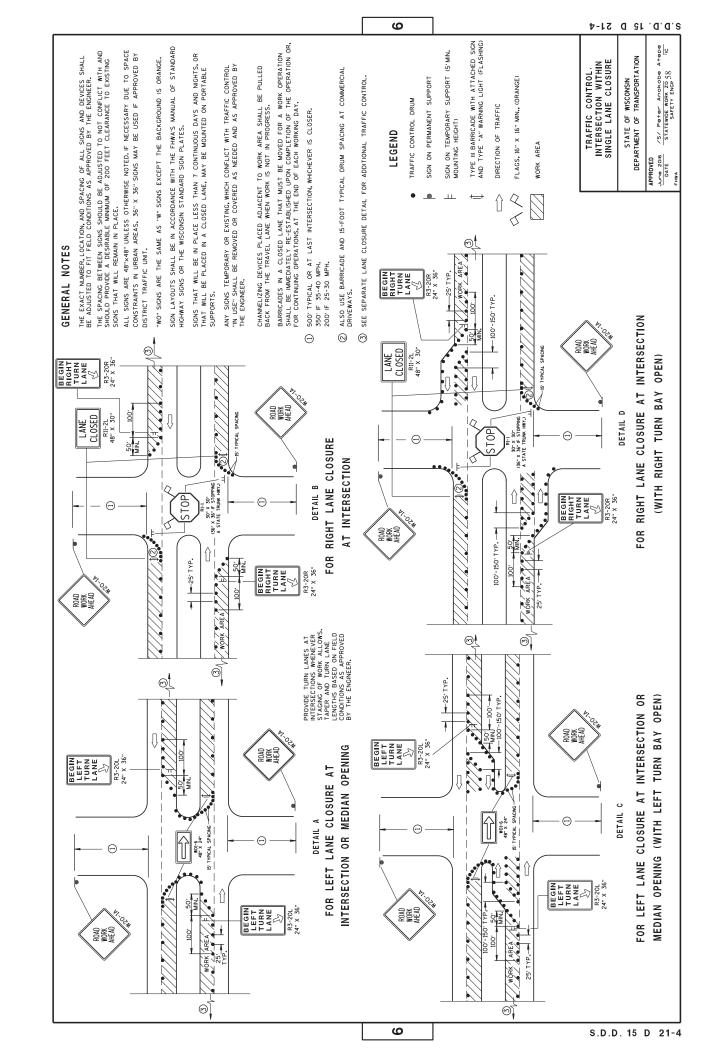


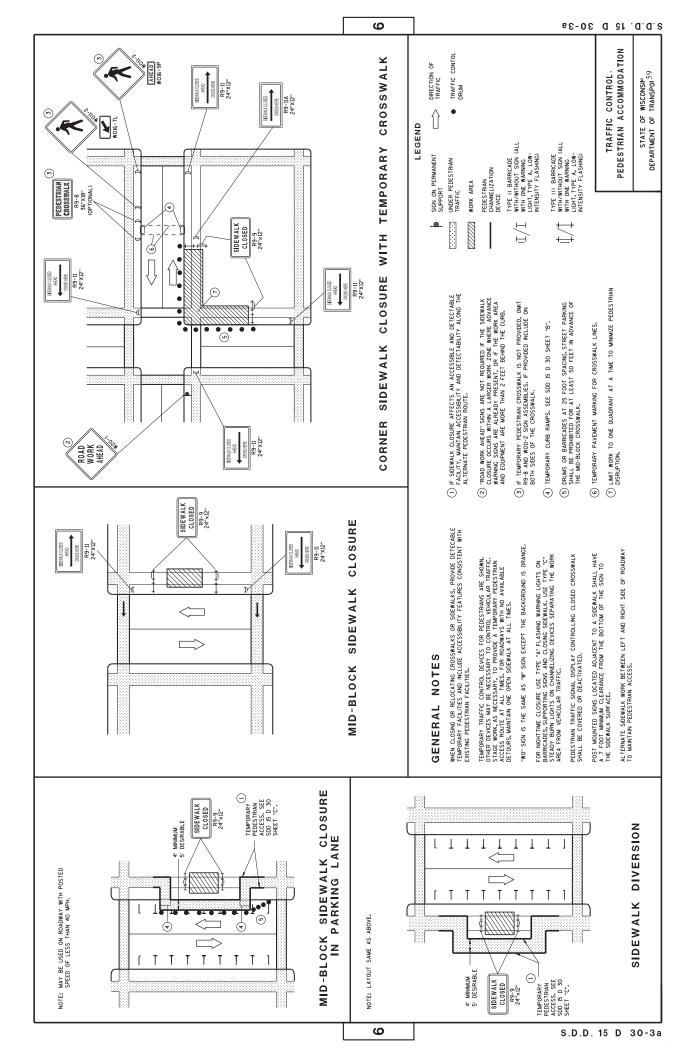
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

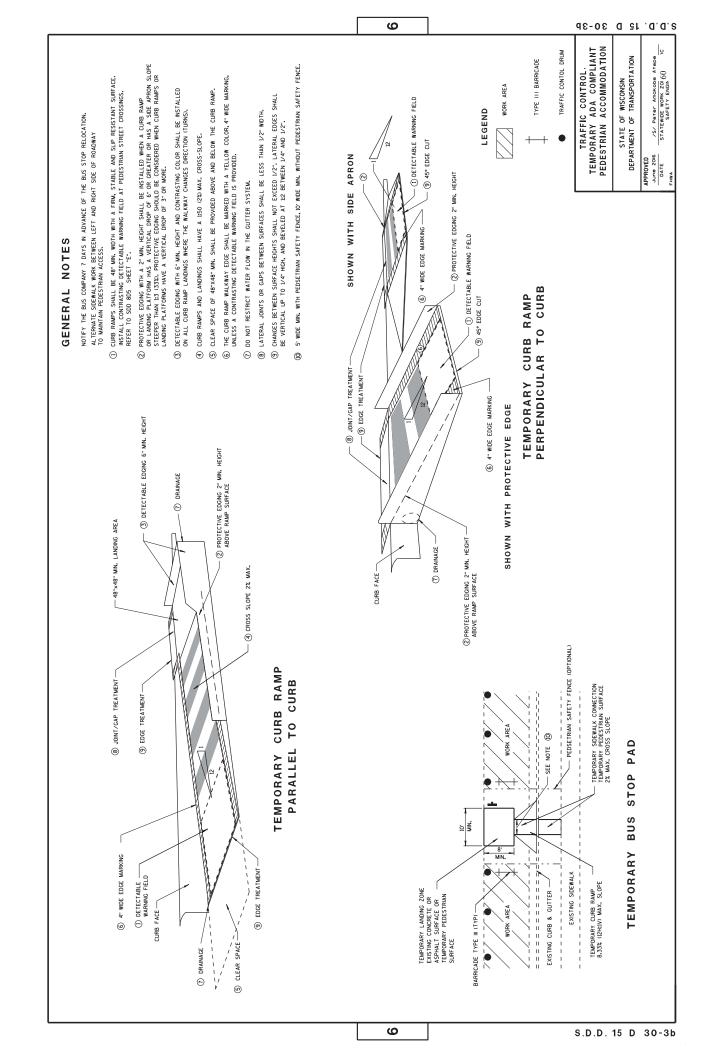


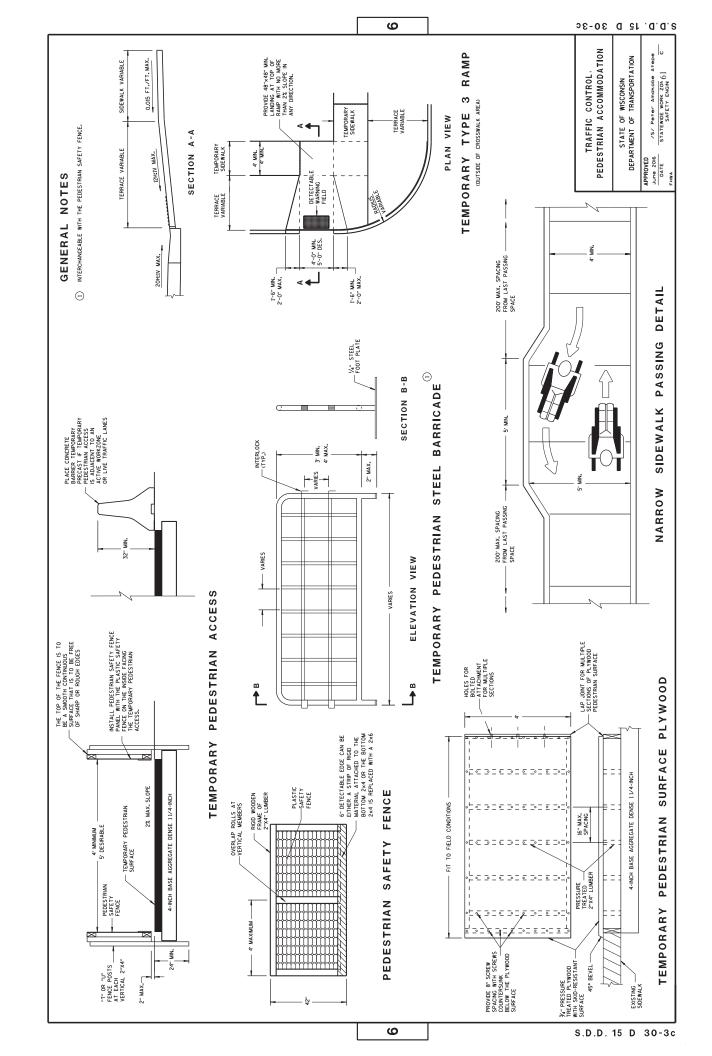


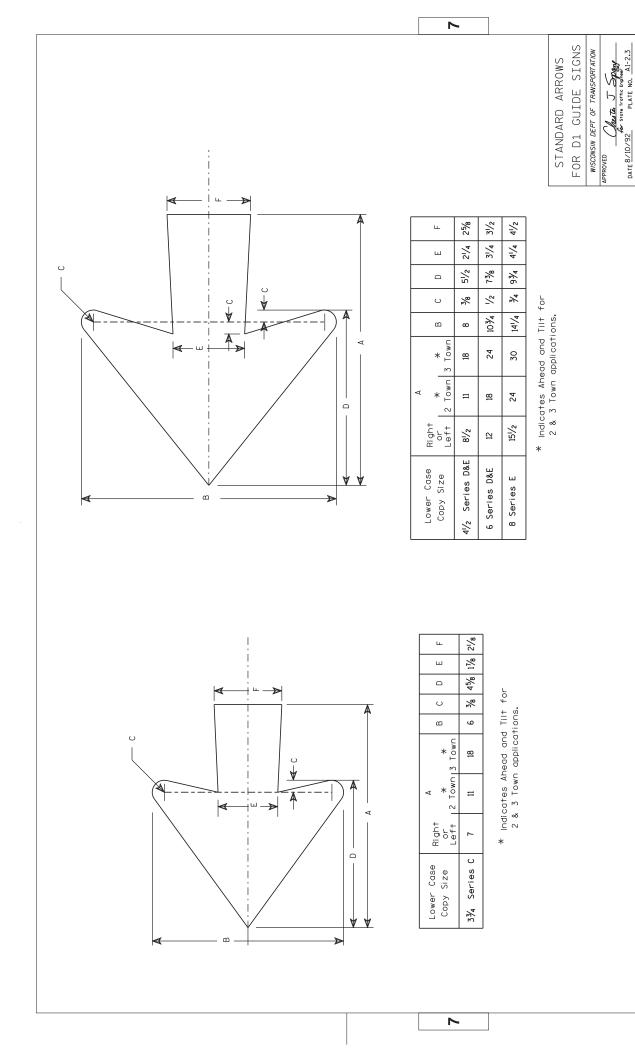
0 | 0 | 0











WISDOT/CADDS SHEET 42

PLOT BY : DOTDZK

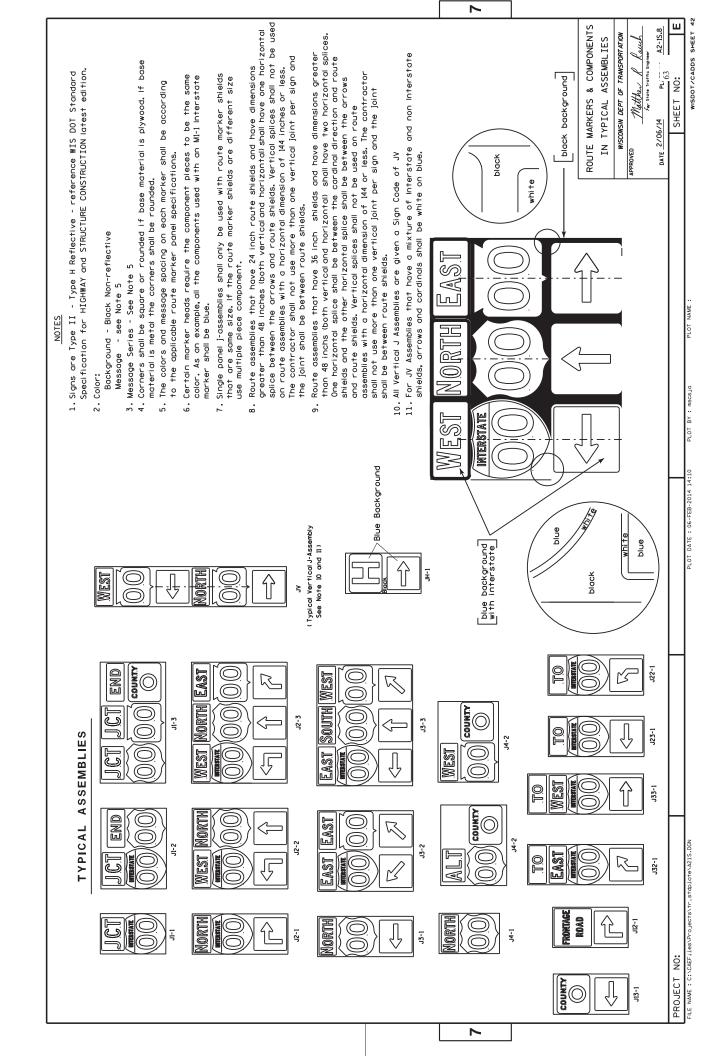
PLOT DATE : 28-SEP-2005 07:11

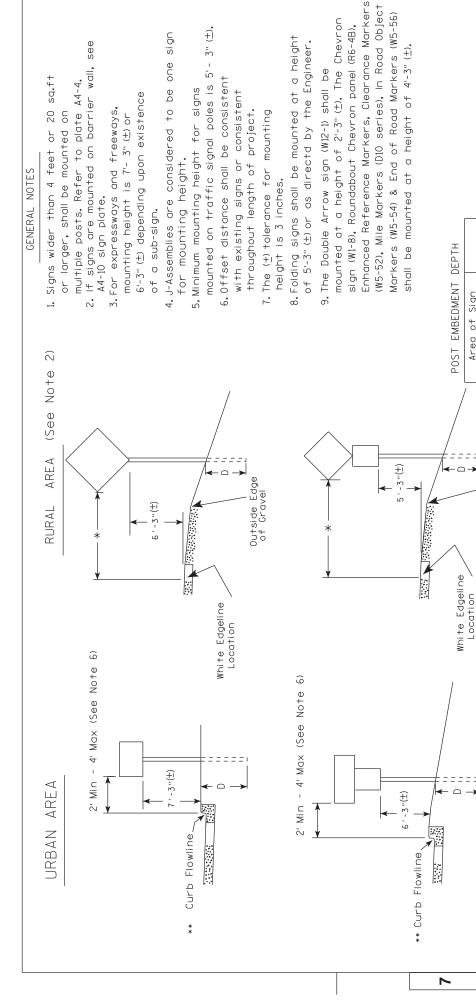
FILE NAME : C:\Users\Projects\tr_stdpLate\a12.DGN

PROJECT NO:

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SHEET NO: 62





3" (+)

gravel, whichever is greater unless directed feet from the edge of pavement (edge line 0 location) or 2 feet from outside edge of Greater than 20 * 6 feet from edge of a paved shoulder by project engineer.

SIGNS ON SINGLE POSTS TYPICAL INSTALLATION OF PERMANENT TYPE II

12

○ Min 4 5

Outside Edge of Gravel

itself mandate the vertical clearance illustrated.

That height is typically measured where

sidewalk vertical clearance is measured from

the top of the curb. Offset of signs is

measured from the flow line.

or parking is permitted. In the absence of there is sidewalk adjacent to the roadway

The existence of curb and gutter does not in

*

Area of Sign Installation 20 or Less (Sq. Ft.)

/

WISCONSIN DEPT OF TRANSPORTATION Matthe APPROVED

PLATE NO. A4-3.21 DATE 8/21/17

PLOT SCALE : 100.601251:1.000000

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

PLOT DATE : 21-AUG-2017 16:04

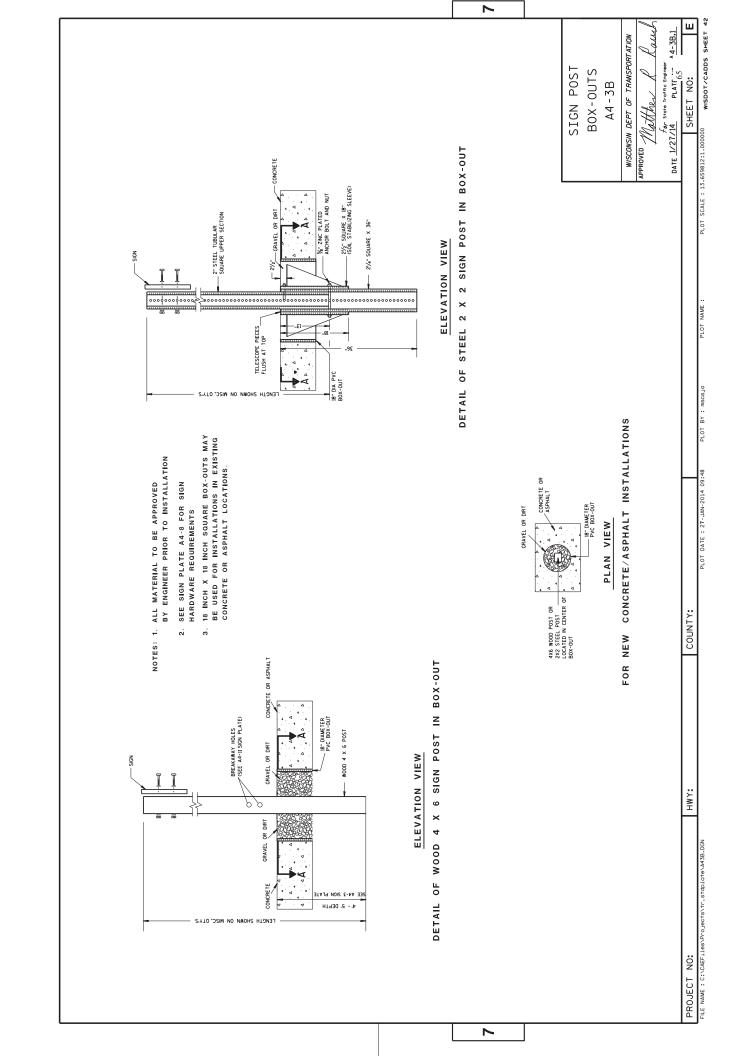
COUNTY:

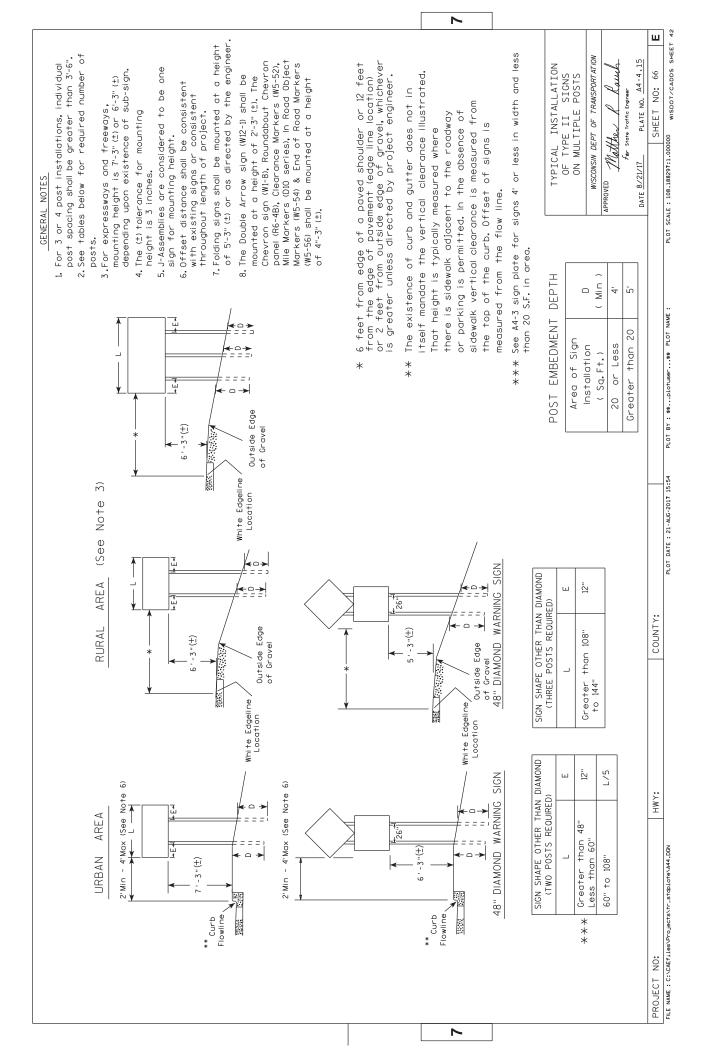
PLOT BY : \$\$...plotuser...\$\$ PLOT NAME

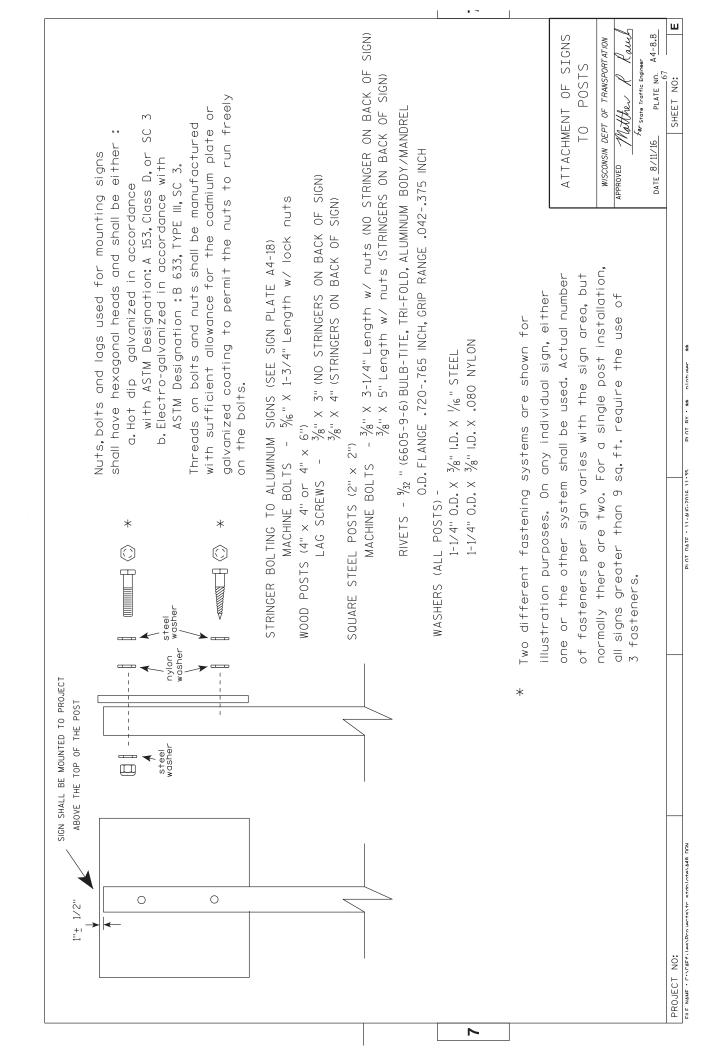
64 SHEET NO:

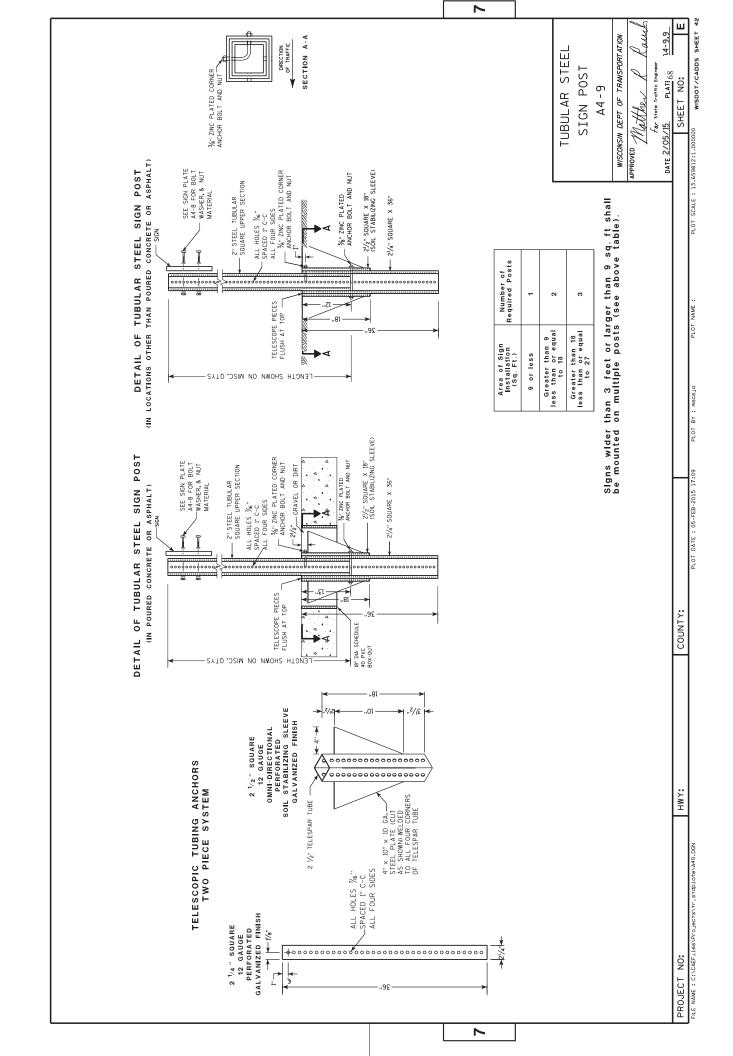
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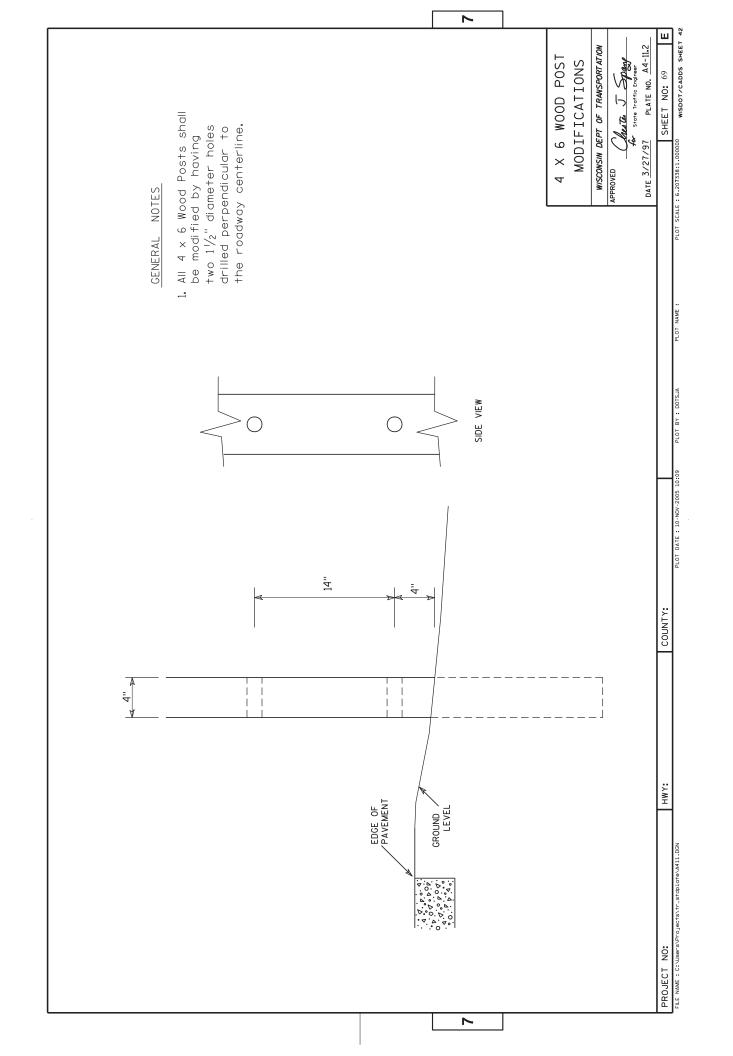
WISDOT/CADDS SHEET 42

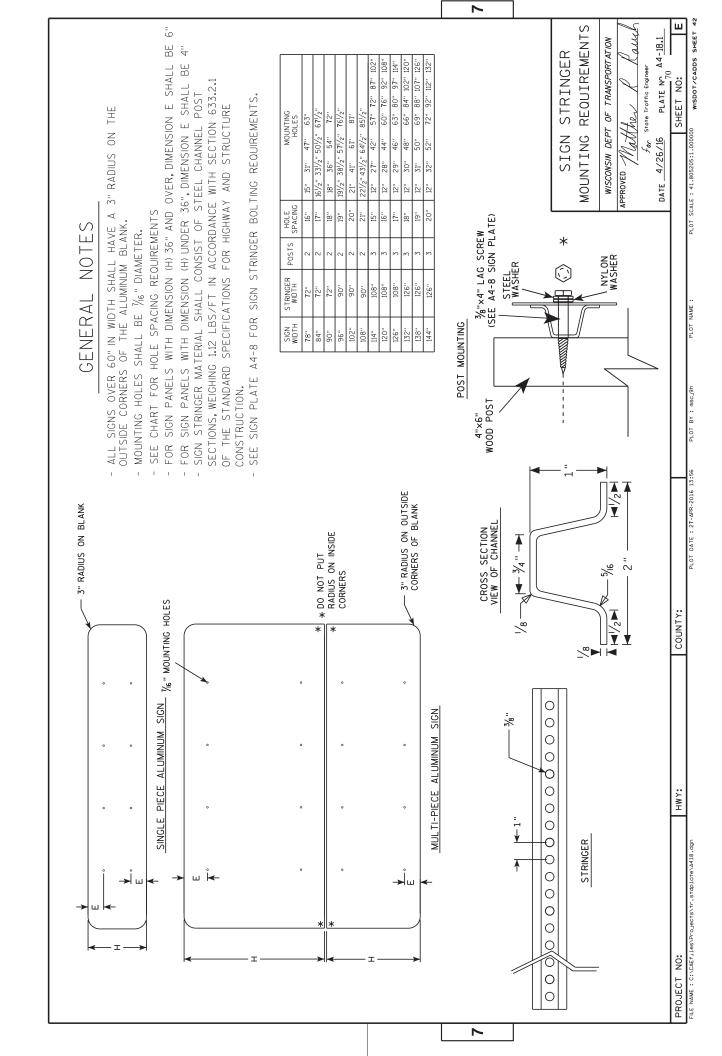


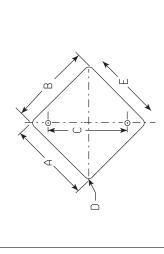


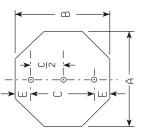


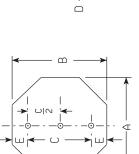


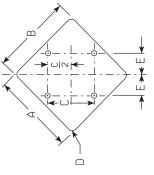












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NOTES

CONT'D.

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0 TYPE 5

В 30 12

∢ 30 36

Mountin Holes

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A B 18 18 36 48

Area Mounting Sq. Ft. Holes

3 O O

В

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TYPE 1

2 ~ 2

 18
 18
 1½
 14
 2.25

 24
 24
 1½
 20
 4.0

18 30 2

36

36

6.25 9.0

30 36

TYPE

1.95 3.9

7 ں

3.0

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2 4.5 ~ D.

~ 7

0.7

3

2 2

24 32

36 48

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1. All sign blanks shall have $\%_{\rm l6}"$ Diameter mounting hole.

CKNESS	NOMINAL THICKNESS	0.080 inch 0.100 inch 0.125 inch
ALUMINUM THICKNESS	SIGN WIDTH	30 inches and under Greater than 30-36 inches Over 36 inches

<>

0.9 9.0

STOP SIGN THICKNESS	THICKNESS	
SIGN WIDTH	NOMINAL	NOMINAL THICKNESS
30 inches	0.100	1 1nch
36-48 inches	0.125	0.125 inch

8.75

4

1 1/8

22

42 30

7

3.06

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17

21 | 21 |

2.0 3.0 4.0 2.5

24 12 8

2.19

1 1/2 11/2 11/2

15 18

21

18

7

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11/2 11/2 11/2

11/2

2

4.37 3,75

11/2

21 17

30

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D E Area Mounting

ں

В

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TYPE

5.0

24 20

3.13

2 5.00

Area Mounting Sq. Ft. Holes

В

TYPE

0.44 1,00 2.25

9 6 14

80 12

Area P Sq. Ft.

TYPE ВСЕ 5.18 7,46

_

3,31

24 20

24 30 36 48

⋖

36

2 6.125

SIUP SIUN IHICKNESS	IMICKINESS
SIGN WIDTH	NOMINAL THICKNESS
30 inches	0.100 inch
36-48 inches	

APPROVED MATTER LAMB for state tradite ingineer DATE 8/22/17 PLATE NO. 45-3.2

PLOT BY : \$\$...plotuser...ss PLOT NAME :

PLOT DATE : 22-AUG-2017 11:49

SHEET NO: 71

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A53.DGN PROJECT NO:

COUNTY:

PLOT SCALE : 1.968789:1.000000

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1. All sign blanks shall have $\%\text{\ }^{\text{\tiny L}}$ Diameter mounting holes.



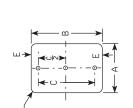
TYPE 8	B C E Area Mounting	- 24 3 4.91 2	- 26 5 7.07 2	- 32 8 12.5 3
	∢	30	36	48

A B C D E Area Mountin 30 30 24 13/8 3 4.68 36 36 26 1⁵/₈ 5 6.75 48 48 32 17₈ 8 12.0

TYPE 6

9

 ∞



	Mounting Holes	2	2	2	3	2	2	2	3	3	3	2	2	3	3	3	3	3	2	3	3	3	3	3
	Area Sq. Ft.	1.5	2.0	3.0	4.0	2.19	3.0	4.5	6,75	8.75	10.5	5.0	6.0	6.5	7.5	8.0	9.5	12.0	7.5	12,75	14.25	13.0	14.0	19.0
_	ш	$1^{1/2}$	2	9	8	1 1/2	2	9	6	10	10	4	6	9	9	8	10	8	6	6	10	10	10	9
YPE	0	11/2	11/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	21/2	1 1/2	1 1/2	11/2	1 1/2	1 1/2	$1\frac{7}{8}$	$1^{7/8}$	1 1/8	1 1/8	1 1/8	21/4	1 1/8	1 7/8	$1\frac{7}{8}$	3
-	J	15	20	24	32	18	20	24	36	40	52	22	24	27	32	32	37	32	24	36	37	27	32	37
	В	18	24	98	48	21	54	36	54	09	72	98	36	39	45	48	24	48	36	54	22	39	45	25
	∢	12	12	12	12	15	18	18	18	21	21	24	24	24	24	24	24	36	30	36	36	48	48	48

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COUNTY:

PLOT DATE : 22-AUG-2017 11:50

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

SHEET NO: 72 PLOT SCALE : 1.964054:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-3.24

For State Traffic Engineer

DATE 8/22/17

Matthe

APPROVED

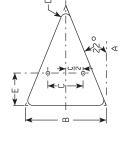
ALUMINUM SIGN BLANKS SHEET 2 OF 3

WISCONSIN DEPT OF TRANSPORTATION

STANDARD LAYOUT OF

PROJECT NO: FILE NAME: C:\CAEFiles\Projects\r_stqplote\A53.DGN

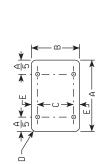
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10

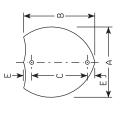
1)	Mounting Holes	2
(NOTE	Area Sq.Ft.	0.9
Z	Е	16
10	О	21/4
Ы	ງ	14
TYPE	В	36
	Þ	48

11	Mounting Holes	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Area Sq. Ft.	5.5	8,25	11.0	13.75	16.5	19.25	22.0	0.9	0.6	12.0	15.0	18.0	21.0	24.0
PE	ш	2	2	2	4	4	4	4	2	2	2	4	4	4	4
\perp		3	3	3	3	3	Э	Э	Э	С	3	3	Э	Э	С
	U	8	14	20	22	28	34	40	8	14	20	22	28	34	40
	В	12	18	24	30	36	42	48	12	18	24	30	36	42	48
	⋖	99	99	99	99	99	99	99	72	72	72	72	72	72	72



11

2)	Mounting Holes	2	2	2	2
12 (NOTE	Area Sq. Ft.	3,13	3,91	20°2	62*8
Z	Е	3	3	4	4
12	C	18	18	28	28
ГҮРЕ	В	24	24	36	36
	ℴ	24	30	36	45



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NOTES

E Area Sq. Ft.

0

TYPE 13

20.0

10

40

48

4.5

12 8 9 В

54

5.63 6.75 7.88

11/2 1 1/2

54 15

54

54 54

- 1. Dimension A on type #10 is measured to the theoretical intersections of the edges.
- FHWA standard for Interstate route 2. Shape of type #12 shall conform to markers.
- 3. All signs over 60" in width shall have 3" radius on the outside corners of the aluminum blank.

13.5

9.0

24 20 17/8 54 | 36 | 28 | 1 1/8 4 18.0

54 | 48 | 40 | 1 1/8 |

60 | 24 | 20 | 17/₈ | 2 | 10.0 60 30 22 17/8 4 12.5 60 36 28 17/₈ 4 15.0 60 42 34 17/8 4 17.5

60 | 18 | 14 | 1¹/₂ | 2 | 7.5

4. For signs over 60" in width see sign plate A4-18 for hole placement.

/

ALUMINUM SIGN BLANKS WISCONSIN DEPT OF TRANSPORTATION STANDARD LAYOUT OF SHEET 3 OF 3 Matthe APPROVED

20.0

PLATE NO. A5.3.24

DATE 8/22/17

SHEET NO: 73

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A53.DGN PROJECT NO:

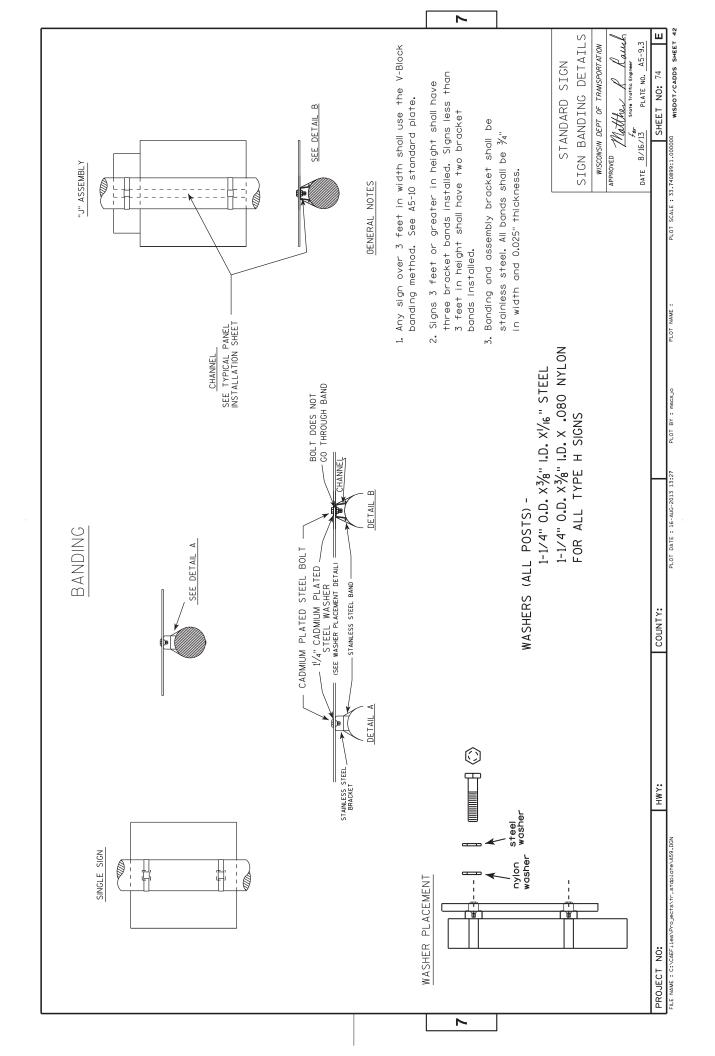
PLOT DATE : 22-AUG-2017 11:50

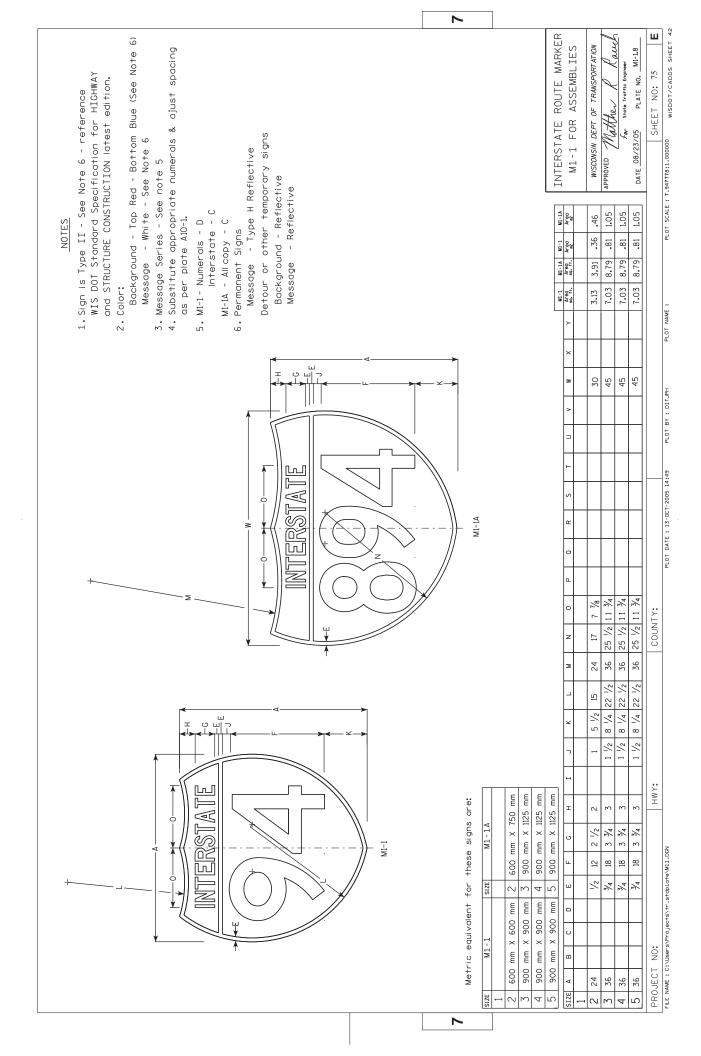
COUNTY:

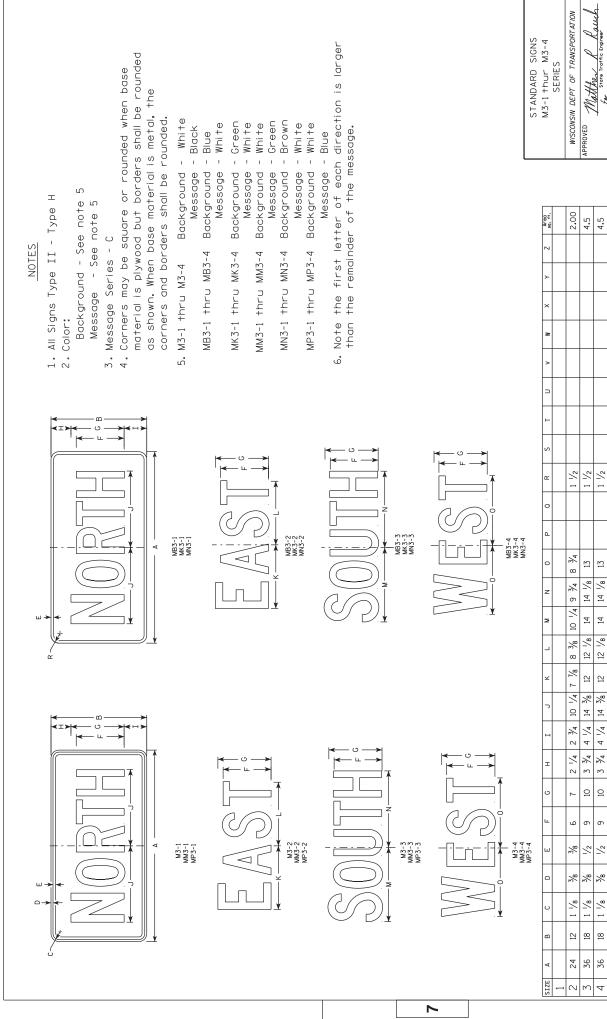
: ⊢MH

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 1.967742:1.000000







M3-1.14 APPROVED Matthe for DATE 10/15/15

> 4.5 4.5 4.5

> > PI OT DATE . 01-DEC-2015 17-54

** PLOT NAMF

PIOT RY - \$\$ nintuser

PIOT SCAIF . 11 675051.1 ONOON

FII F NAME . C.\CAFFILES\Prolects\tr stdnlote\M31 DGN

PROJECT NO:

:\МН

1 1/2 1 1/2 1 1/2

> 13 13

12 1/8 12 1/8 12 1/8

12 12

10 0

> 1/8 1 //8

18 138

36 36

9

36

6 6 12

3 3/4 4 1/4 14 3/8

0

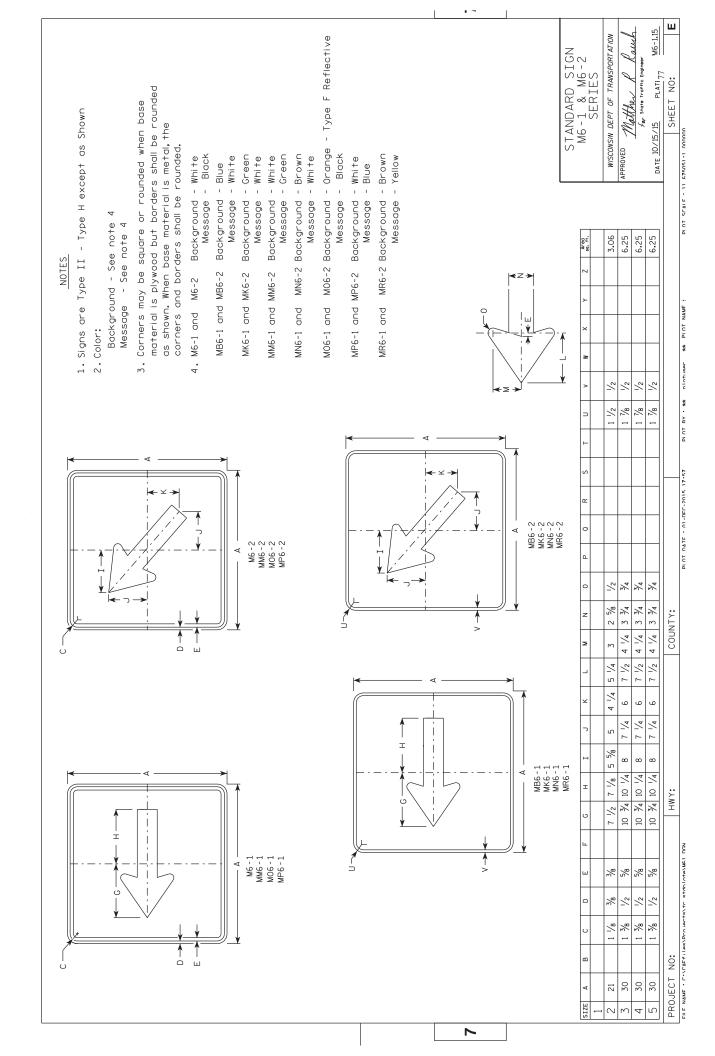
6

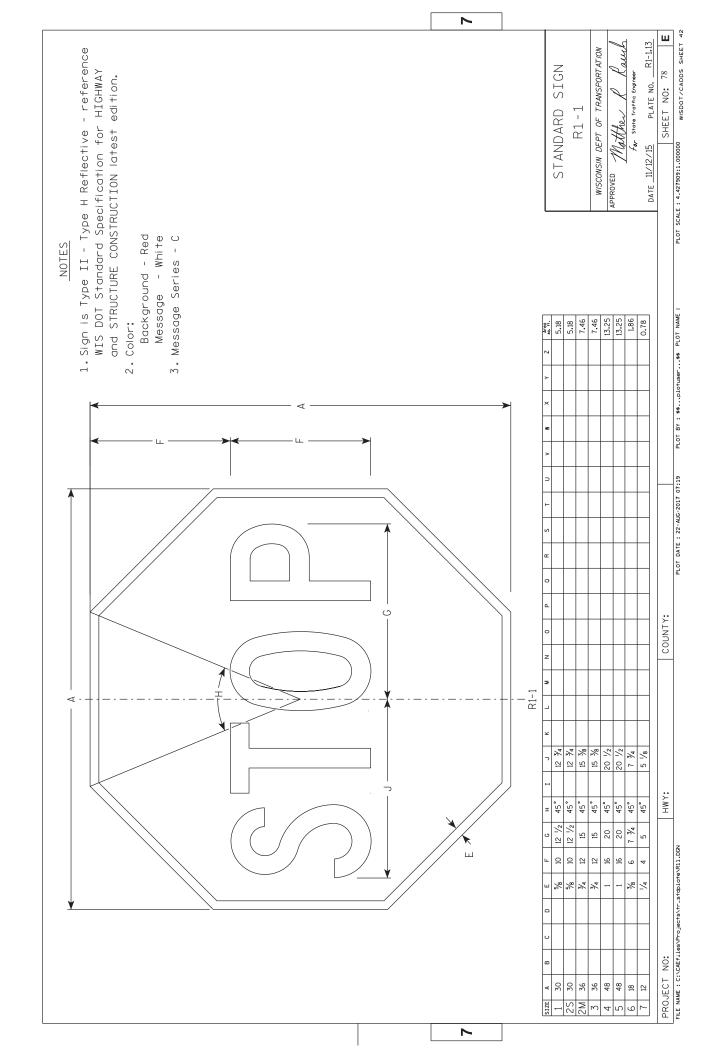
13

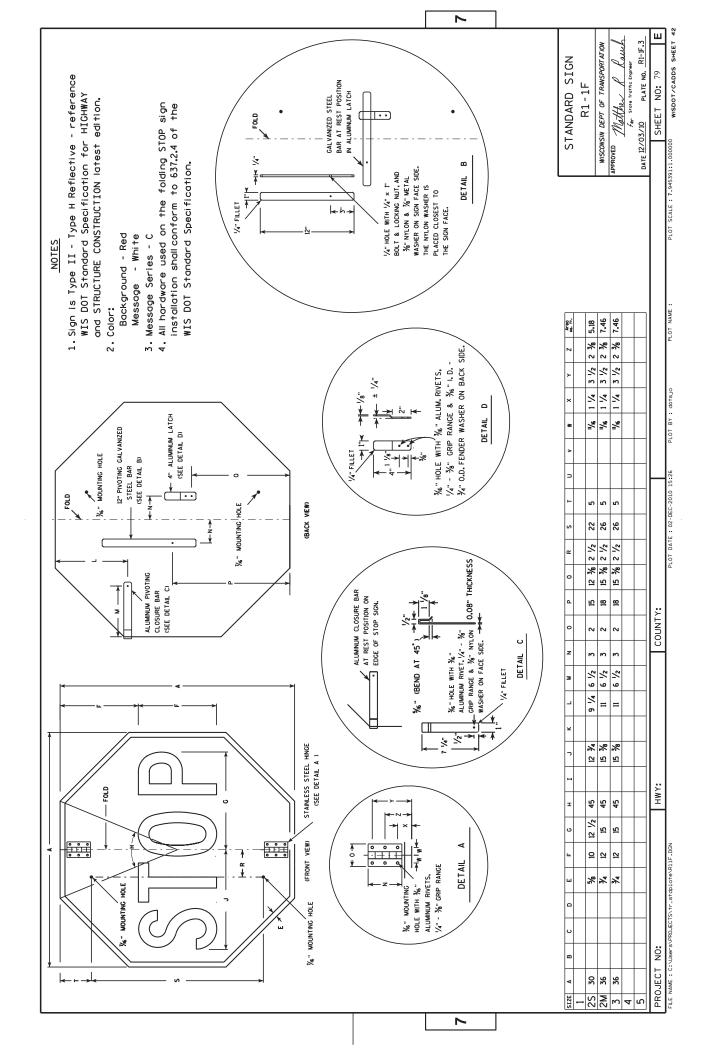
14 1/8 14 1/8 14 1/8 COUNTY:

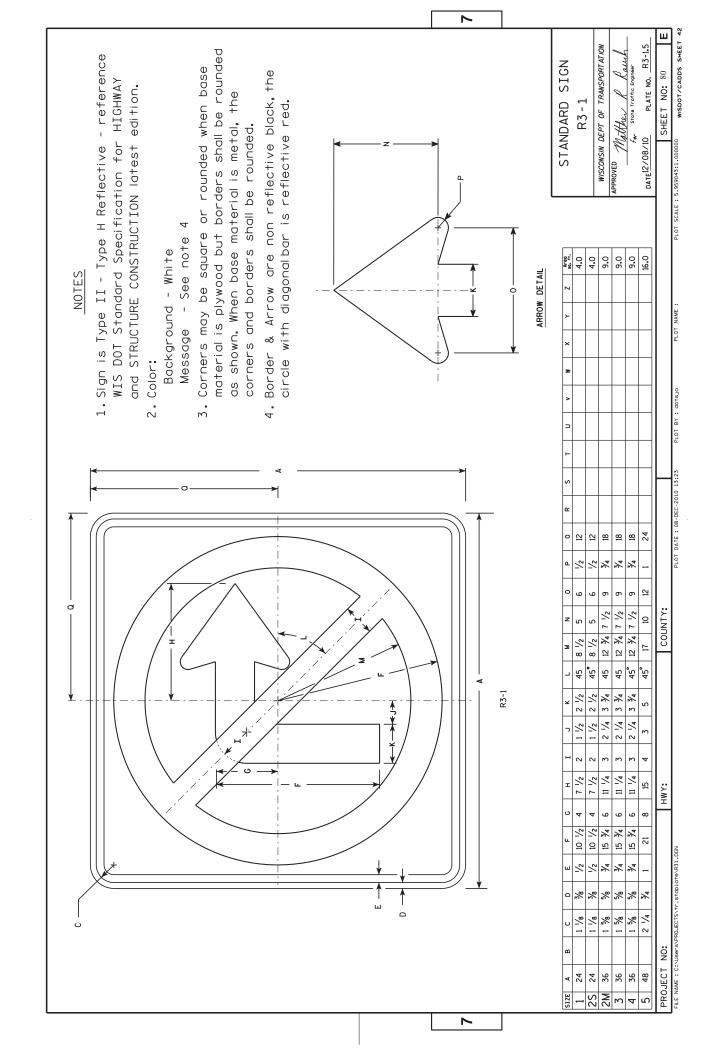
14

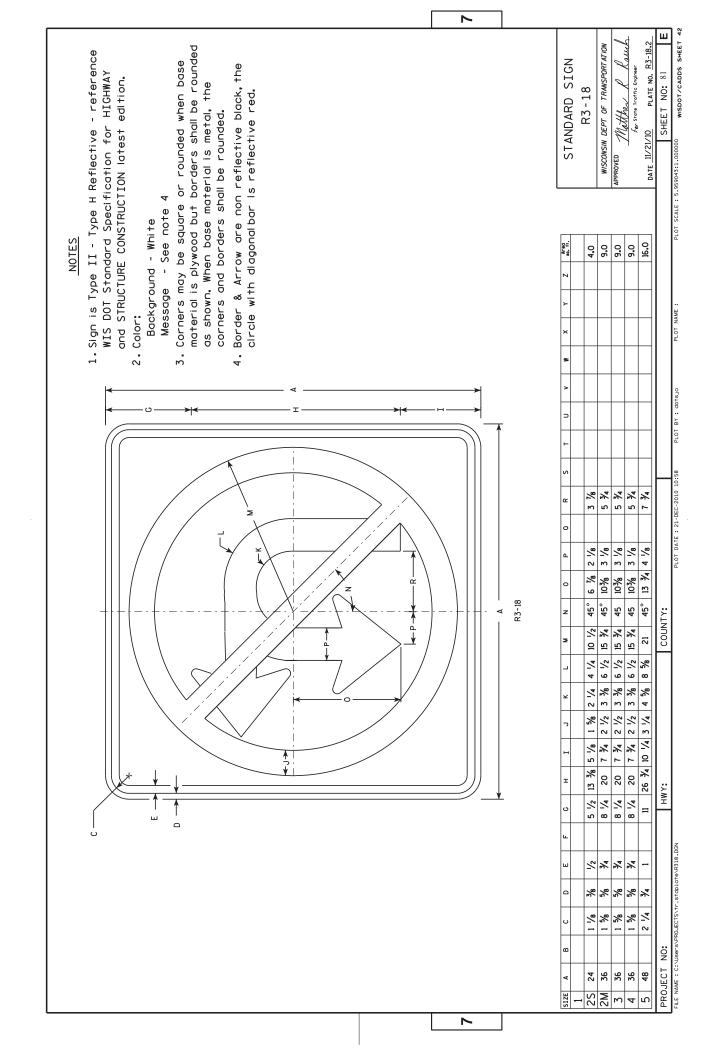
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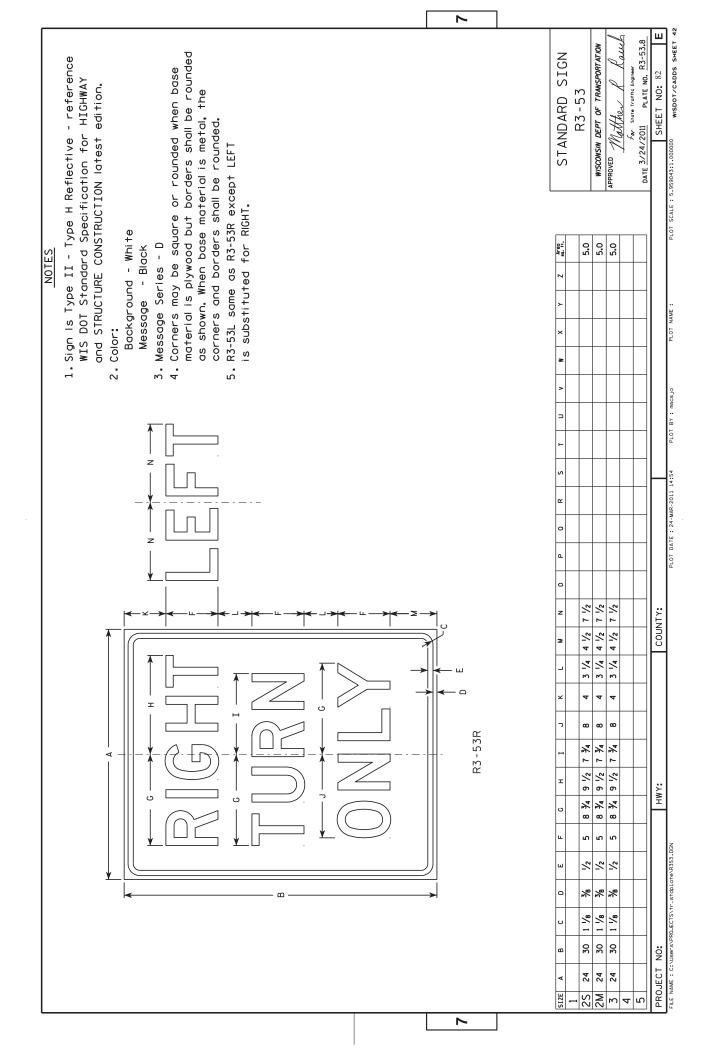


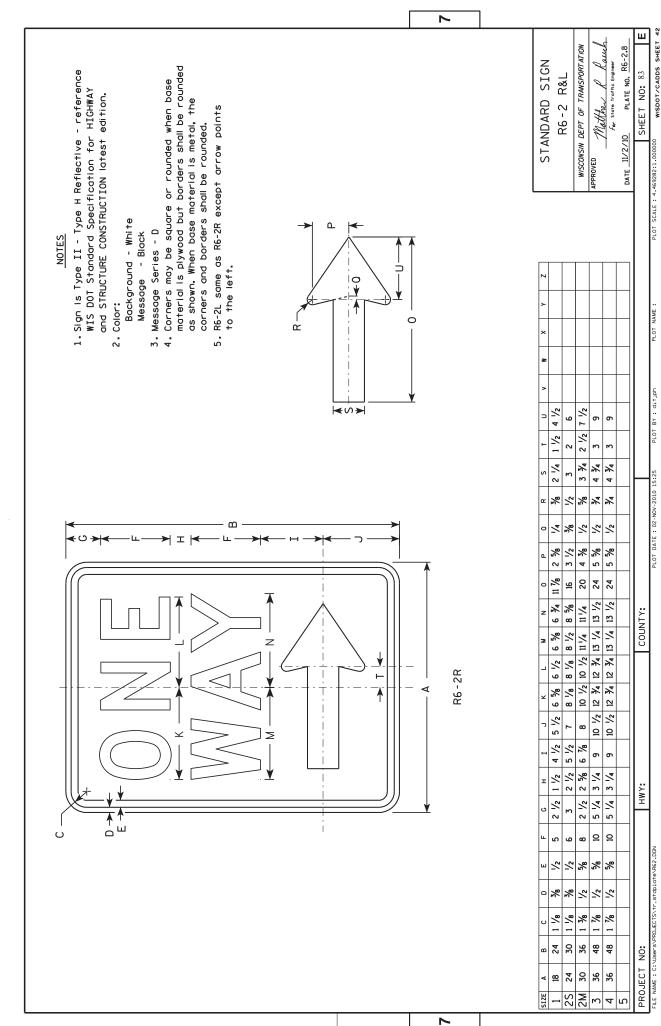


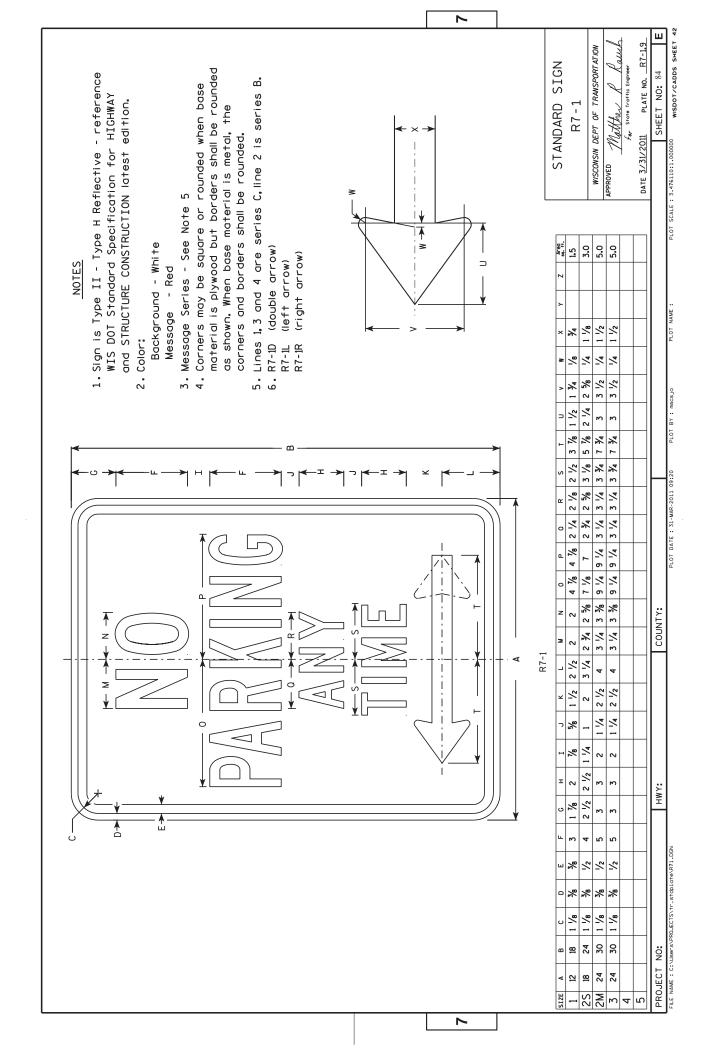


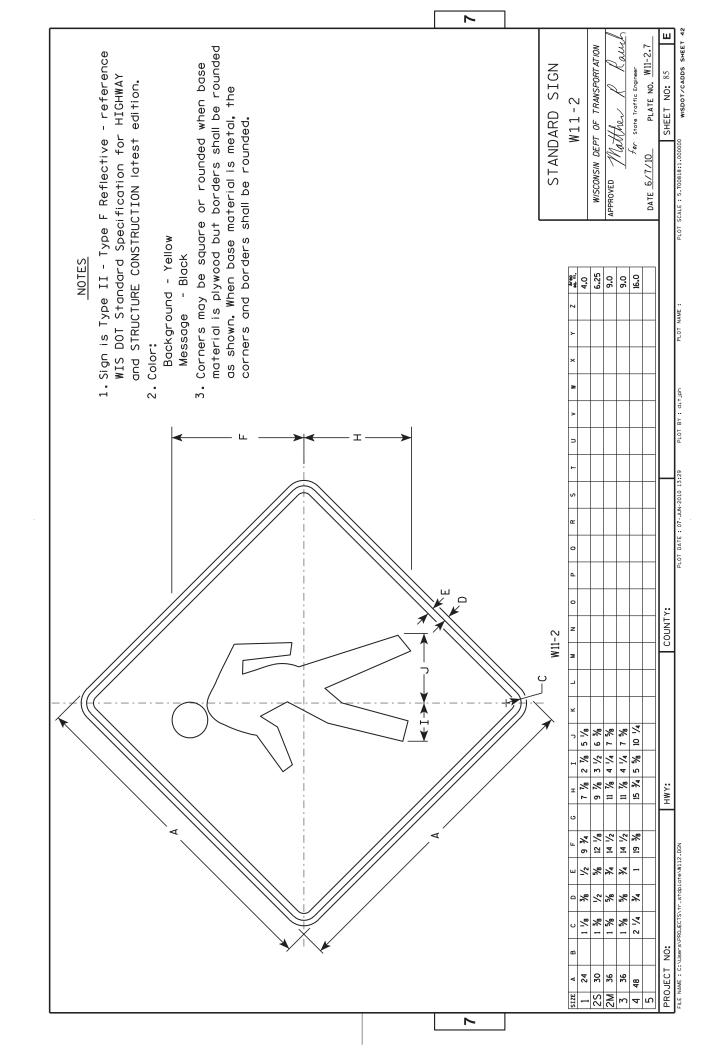












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WISDOT/CADDS SHEET 42

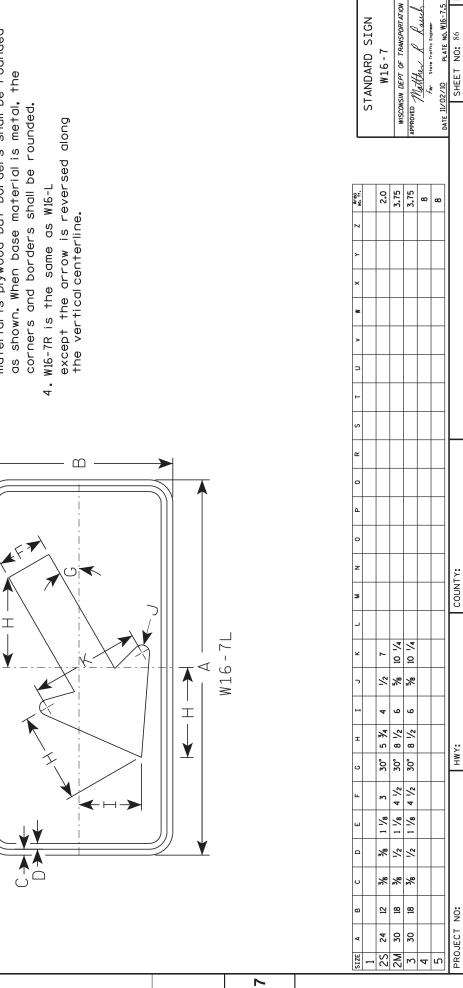
PLATE NO. W16-7.5

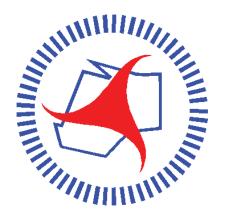
NOTES

- HIGHWAY and STRUCTURE CONSTRUCTION latest edition. reference WIS DOT Standard Specification for 1. Sign is Type II - Type F Reflective -
- 2. Color:

Background - Yellow Message - Black

material is plywood but borders shall be rounded 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.





Wisconsin Department of Transportation

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Proposal Schedule of Items

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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	108.4400 CPM Progress Schedule	1.000 EACH		
0004	201.0105 Clearing	21.000 STA		
0006	201.0205 Grubbing	21.000 STA		
8000	203.0200 Removing Old Structure (station) 0010. 21C+10	LS	LUMP SUM	·
0010	203.0200 Removing Old Structure (station) 0020. 26+00	LS	LUMP SUM	·
0012	203.0210.S Abatement of Asbestos Containing Material (structure) 0010. B-67-114	LS	LUMP SUM	
0014	203.0210.S Abatement of Asbestos Containing Material (structure) 0020. B-67-104	LS	LUMP SUM	
0016	203.0225.S Debris Containment (structure) 0010. B- 67-114	LS	LUMP SUM	
0018	203.0225.S Debris Containment (structure) 0020. B- 67-359	LS	LUMP SUM	
0020	204.0100 Removing Pavement	637.000 SY		
0022	204.0120 Removing Asphaltic Surface Milling	12,628.000 SY	·	
0024	204.0150 Removing Curb & Gutter	68.000 LF		
0026	204.0155 Removing Concrete Sidewalk	72.000 SY		
0028	204.0165 Removing Guardrail	1,288.000 LF		
0030	204.0170 Removing Fence	115.000 LF		







Proposal Schedule of Items

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Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.0175 Removing Concrete Slope Paving	1,281.000 SY	·	
0034	204.0220 Removing Inlets	6.000 EACH	·	
0036	204.0245 Removing Storm Sewer (size) 0001. 12-INCH	340.000 LF		
0038	204.0245 Removing Storm Sewer (size) 0002. 30-INCH	19.000 LF		
0040	204.0245 Removing Storm Sewer (size) 0003. 42-INCH	183.000 LF		·
0042	204.9060.S Removing (item description) 1001. LUMINAIRES	156.000 EACH	·	·
0044	204.9060.S Removing (item description) 1002. SIGN LIGHTING	1.000 EACH	·	
0046	205.0100 Excavation Common	8,413.000 CY		
0048	206.1000 Excavation for Structures Bridges (structure) 0010. B-67-114	LS	LUMP SUM	
0050	206.1000 Excavation for Structures Bridges (structure) 0020. B-67-359	LS	LUMP SUM	
0052	208.0100 Borrow	425.000 CY		
0054	210.1500 Backfill Structure Type A	632.000 TON		
0056	213.0100 Finishing Roadway (project) 0001. 1090- 30-70	1.000 EACH	·	
0058	213.0100 Finishing Roadway (project) 0002. 2445- 09-70	1.000 EACH		







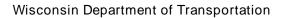
Proposal Schedule of Items

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Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0060	305.0110 Base Aggregate Dense 3/4-Inch	148.000 TON		
0062	305.0120 Base Aggregate Dense 1 1/4-Inch	2,809.000 TON		
0064	320.0155 Concrete Base 9-Inch	10.000 SY		
0066	390.0403 Base Patching Concrete Shes	160.000 SY		
0068	415.0410 Concrete Pavement Approach Slab **P**	343.000 SY		
0070	416.0610 Drilled Tie Bars	259.000 EACH	·	
0072	416.0620 Drilled Dowel Bars	160.000 EACH		·
0074	416.1010 Concrete Surface Drains	2.000 CY		·
0076	450.4000 HMA Cold Weather Paving	293.000 TON		
0078	455.0605 Tack Coat	1,096.000 GAL		
0082	460.2000 Incentive Density HMA Pavement	1,749.000 DOL	1.00000	1,749.00
0084	460.6223 HMA Pavement 3 MT 58-28 S	867.000 TON		
0086	460.6224 HMA Pavement 4 MT 58-28 S	1,389.000 TON		·
0088	460.6424 HMA Pavement 4 MT 58-28 H	304.000 TON		·
0090	465.0315 Asphaltic Flumes	32.000 SY		
0092	465.0400 Asphaltic Shoulder Rumble Strips	3,596.000 LF		
0094	495.1000.S Cold patch	5.000 TON	·	·



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Proposal Schedule of Items

Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0096	501.1000.S Ice Hot Weather Concreting	4,030.000 LB		
0098	502.0100 Concrete Masonry Bridges	816.000 CY		
0100	502.3100 Expansion Device (structure) 0010. B-67-114	LS	LUMP SUM	·
0102	502.3200 Protective Surface Treatment **P**	2,899.000 SY		
0104	502.3210 Pigmented Surface Sealer	554.000 SY		
0106	502.4205 Adhesive Anchors No. 5 Bar	344.000 EACH		
0108	503.0137 Prestressed Girder Type I 36W-Inch **P**	1,207.000 LF		
0110	505.0400 Bar Steel Reinforcement HS Structures	4,920.000 LB		
0112	505.0600 Bar Steel Reinforcement HS Coated Structures	266,640.000 LB	·	
0114	505.0800.S Bar Steel Reinforcement HS Stainless Structures	1,870.000 LB	·	
0116	506.2605 Bearing Pads Elastomeric Non- Laminated	28.000 EACH	·	<u></u>
0118	506.4000 Steel Diaphragms (structure) 0010. B-67- 359	24.000 EACH		
0120	506.6000 Bearing Assemblies Expansion (structure) 0010. B-67-114	8.000 EACH		
0122	506.7050.S Removing Bearings (structure) 0010. B- 67-114	8.000 EACH		
0124	509.0301 Preparation Decks Type 1	23.000 SY		







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Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0126	509.0302 Preparation Decks Type 2	8.000 SY		
0128	509.1500 Concrete Surface Repair	134.000 SF		
0130	509.2000 Full-Depth Deck Repair	12.000 SY		
0132	513.2001 Railing Pipe (structure) 0010. R-67-131	192.000 LF		
0134	513.2001 Railing Pipe (structure) 0020. R-67-132	204.000 LF		
0136	513.4091 Railing Tubular Screening (structure) 0010. B-67-359	426.000 LF		
0138	514.0445 Floor Drains Type GC	2.000 EACH		
0140	516.0500 Rubberized Membrane Waterproofing **P**	42.000 SY	·	
0142	517.0900.S Preparation and Coating of Top Flanges (structure) 0010. B-67-114	LS	LUMP SUM	
0144	517.1010.S Concrete Staining (structure) 0010. B-67- 359 **P**	10.000 SF		
0146	517.1800.S Structure Repainting Recycled Abrasive (structure) 0010. B-67-109	LS	LUMP SUM	
0148	517.1800.S Structure Repainting Recycled Abrasive (structure) 0020. B-67-110	LS	LUMP SUM	
0150	517.1800.S Structure Repainting Recycled Abrasive (structure) 0030. B-67-114	LS	LUMP SUM	·
0152	517.3000.S Structure Overcoating Cleaning and Priming (structure) 0010. B-67-134	LS	LUMP SUM	





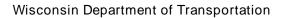


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Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0154	517.3000.S Structure Overcoating Cleaning and Priming (structure) 0020. B-67-135	LS	LUMP SUM	
0156	517.4000.S Containment and Collection of Waste Materials (structure) 0010. B-67-134	LS	LUMP SUM	
0158	517.4000.S Containment and Collection of Waste Materials (structure) 0020. B-67-135	LS	LUMP SUM	
0160	517.4500.S Negative Pressure Containment and Collection of Waste Materials (structure) 0010. B-67-109	LS	LUMP SUM	
0162	517.4500.S Negative Pressure Containment and Collection of Waste Materials (structure) 0020. B-67-110	LS	LUMP SUM	
0164	517.4500.S Negative Pressure Containment and Collection of Waste Materials (structure) 0030. B-67-114	LS	LUMP SUM	
0166	517.6001.S Portable Decontamination Facility	5.000 EACH	·	
0168	520.8000 Concrete Collars for Pipe	6.000 EACH		
0170	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	4.000 EACH		·
0172	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	1.000 EACH		
0174	550.1100 Piling Steel HP 10-Inch X 42 Lb	3,600.000 LF	·	
0176	601.0331 Concrete Curb & Gutter 31-Inch	506.000 LF		
0178	601.0409 Concrete Curb & Gutter 30-Inch Type A	60.000 LF	·	
0180	601.0411 Concrete Curb & Gutter 30-Inch Type D	104.000 LF	·	





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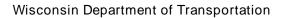


Proposal Schedule of Items

Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0182	601.0600 Concrete Curb Pedestrian	15.000 LF		·
0184	602.0410 Concrete Sidewalk 5-Inch	645.000 SF		
0186	602.0505 Curb Ramp Detectable Warning Field Yellow	50.000 SF		·
0188	603.1142 Concrete Barrier Type S42	966.000 LF		
0190	603.8000 Concrete Barrier Temporary Precast Delivered	6,118.000 LF	·	
0192	603.8125 Concrete Barrier Temporary Precast Installed	9,812.000 LF		·
0194	604.0400 Slope Paving Concrete	1,313.000 SY		
0196	604.9010.S Slope Paving Repair Crushed Aggregate	42.000 CY		
0198	604.9015.S Reseal Crushed Aggregate Slope Paving	378.000 SY		
0200	606.0100 Riprap Light	134.000 CY		·
0202	606.0200 Riprap Medium	2.000 CY		
0204	608.0212 Storm Sewer Pipe Reinforced Concrete Class II 12-Inch	137.000 LF		<u>-</u>
0206	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	20.000 LF		
0208	608.0442 Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	274.000 LF		



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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0210	608.2329 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45- Inch	52.000 LF		·
0212	611.0642 Inlet Covers Type MS	4.000 EACH		
0214	611.0651 Inlet Covers Type S	4.000 EACH		
0216	611.0654 Inlet Covers Type V	2.000 EACH		
0218	611.2006 Manholes 6-FT Diameter	1.000 EACH		
0220	611.2007 Manholes 7-FT Diameter	1.000 EACH		
0222	611.3003 Inlets 3-FT Diameter	2.000 EACH		
0224	611.3220 Inlets 2x2-FT	2.000 EACH		
0226	611.3902 Inlets Median 2 Grate	2.000 EACH		
0228	612.0206 Pipe Underdrain Unperforated 6-Inch	20.000 LF		
0230	612.0406 Pipe Underdrain Wrapped 6-Inch	511.000 LF		
0232	614.0150 Anchor Assemblies for Steel Plate Beam Guard	4.000 EACH		
0234	614.0905 Crash Cushions Temporary	12.000 EACH		
0236	614.2300 MGS Guardrail 3	659.000 LF		
0238	614.2500 MGS Thrie Beam Transition	234.000 LF		
0240	614.2610 MGS Guardrail Terminal EAT	6.000 EACH		







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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0242	614.2620 MGS Guardrail Terminal Type 2	2.000 EACH		
0244	616.0100 Fence Woven Wire (height) 0001. 4-FT	115.000 LF		
0246	616.0406 Fence Chain Link Salvaged 6-FT	162.000 LF		
0248	619.1000 Mobilization	1.000 EACH		
0250	623.0200 Dust Control Surface Treatment	5,818.000 SY		
0252	624.0100 Water	33.000 MGAL		
0254	625.0100 Topsoil	8,884.000 SY		
0256	627.0200 Mulching	773.000 SY		·
0258	628.1504 Silt Fence	2,634.000 LF		
0260	628.1520 Silt Fence Maintenance	2,634.000 LF		
0262	628.1905 Mobilizations Erosion Control	21.000 EACH		
0264	628.1910 Mobilizations Emergency Erosion Control	11.000 EACH		
0266	628.2002 Erosion Mat Class I Type A	6,698.000 SY		
0268	628.2008 Erosion Mat Urban Class I Type B	773.000 SY		
0270	628.2023 Erosion Mat Class II Type B	1,414.000 SY		
0272	628.6510 Soil Stabilizer Type B	0.300 ACRE		
0274	628.7005 Inlet Protection Type A	12.000 EACH		





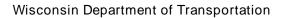


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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0276	628.7020 Inlet Protection Type D	38.000 EACH		
0278	628.7504 Temporary Ditch Checks	286.000 LF		
0280	628.7560 Tracking Pads	5.000 EACH		
0282	628.7570 Rock Bags	50.000 EACH		
0284	629.0210 Fertilizer Type B	5.500 CWT		·
0286	630.0120 Seeding Mixture No. 20	224.000 LB		
0288	630.0140 Seeding Mixture No. 40	24.000 LB		
0290	630.0200 Seeding Temporary	115.000 LB		
0292	633.5200 Markers Culvert End	5.000 EACH		
0294	634.0618 Posts Wood 4x6-Inch X 18-FT	57.000 EACH		
0296	634.0622 Posts Wood 4x6-Inch X 22-FT	6.000 EACH		
0298	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	6.000 EACH		
0300	635.0200 Sign Supports Structural Steel HS	2,600.000 LB		
0302	635.0300 Sign Supports Replacing Base Connection Bolts	2.000 EACH		
0304	636.0100 Sign Supports Concrete Masonry	4.400 CY		
0306	636.0500 Sign Supports Steel Reinforcement	264.000 LB		







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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0308	637.2210 Signs Type II Reflective H	374.420 SF		
0310	637.2215 Signs Type II Reflective H Folding	7.460 SF		
0312	637.2230 Signs Type II Reflective F	133.000 SF		
0314	638.2101 Moving Signs Type I	2.000 EACH	·	<u> </u>
0316	638.2102 Moving Signs Type II	5.000 EACH	·	<u> </u>
0318	638.2602 Removing Signs Type II	32.000 EACH		
0320	638.3000 Removing Small Sign Supports	40.000 EACH		
0322	638.3100 Removing Structural Steel Sign Supports	4.000 EACH		
0324	642.5401 Field Office Type D	1.000 EACH	·	
0326	643.0300 Traffic Control Drums	72,596.000 DAY		
0328	643.0410 Traffic Control Barricades Type II	73.000 DAY		
0330	643.0420 Traffic Control Barricades Type III	7,833.000 DAY		
0332	643.0500 Traffic Control Flexible Tubular Marker Posts	1,569.000 EACH	·	·
0334	643.0600 Traffic Control Flexible Tubular Marker Bases	1,569.000 EACH		
0336	643.0705 Traffic Control Warning Lights Type A	15,888.000 DAY	·	
0338	643.0715 Traffic Control Warning Lights Type C	3,508.000 DAY		







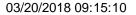
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Federal ID(s): WISC 2018190, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0340	643.0800 Traffic Control Arrow Boards	376.000 DAY		
0342	643.0900 Traffic Control Signs	56,044.000 DAY		
0344	643.0920 Traffic Control Covering Signs Type II	26.000 EACH		
0346	643.1000 Traffic Control Signs Fixed Message	692.000 SF		
0348	643.1050 Traffic Control Signs PCMS	121.000 DAY		<u> </u>
0350	643.5000 Traffic Control	1.000 EACH		
0352	645.0111 Geotextile Type DF Schedule A	98.000 SY		
0354	645.0130 Geotextile Type R	402.000 SY		
0356	645.0140 Geotextile Type SAS	40.000 SY		
0358	646.1020 Marking Line Epoxy 4-Inch	10,962.000 LF		
0360	646.1040 Marking Line Grooved Wet Ref Epoxy 4- Inch	7,590.000 LF		·
0362	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	1,414.000 LF		
0364	646.3020 Marking Line Epoxy 8-Inch	1,825.000 LF		
0366	646.5020 Marking Arrow Epoxy	9.000 EACH		
0368	646.5120 Marking Word Epoxy	6.000 EACH		
0370	646.6120 Marking Stop Line Epoxy 18-Inch	18.000 LF		







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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0372	646.7120 Marking Diagonal Epoxy 12-Inch	451.000 LF		
0374	646.8120 Marking Curb Epoxy	150.000 LF		
0376	646.8220 Marking Island Nose Epoxy	4.000 EACH		
0378	646.9000 Marking Removal Line 4-Inch	23,656.000 LF		
0380	649.0105 Temporary Marking Line Paint 4-Inch	11,308.000 LF		
0382	649.0150 Temporary Marking Line Removable Tape 4-Inch	28,474.000 LF		
0384	659.1125 Luminaires Utility LED C	81.000 EACH		
0386	659.1130 Luminaires Utility LED D	73.000 EACH	·	
0388	659.1215 Luminaires Underdeck LED C	16.000 EACH	·	
0390	690.0150 Sawing Asphalt	4,152.000 LF		
0392	690.0250 Sawing Concrete	1,086.000 LF		
0394	715.0415 Incentive Strength Concrete Pavement	500.000 DOL	1.00000	500.00
0396	715.0502 Incentive Strength Concrete Structures	4,896.000 DOL	1.00000	4,896.00
0398	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	6,000.000 HRS	5.00000	30,000.00
0400	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	9,000.000 HRS	5.00000	45,000.00
0402	SPV.0035 Special 0100. EBS EXCAVATION	421.000 CY		







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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0404	SPV.0035 Special 0101. EBS BACKFILL	421.000 CY		
0406	SPV.0035 Special 4010. POLYESTER POLYMER CONCRETE OVERLAY WITH MILLING AND TRIAL OVERLAY	131.000 CY	·	
0408	SPV.0035 Special 4020. RAPID SET DECK PATCHING	7.000 CY	.	
0410	SPV.0035 Special 4030. HPC MASONRY STRUCTURES **P**	537.000 CY		·
0412	SPV.0060 Special 0101. MOBILIZATIONS EMERGENCY PAVEMENT REPAIR	4.000 EACH		·
0414	SPV.0060 Special 0201. TEMPORARY STONE DITCH CHECKS	3.000 EACH		
0416	SPV.0060 Special 0400. TRAFFIC CONTROL FULL FREEWAY CLOSURE	16.000 EACH	.	
0418	SPV.0060 Special 0401. Covering Signs Type II	1.000 EACH		
0420	SPV.0060 Special 1001. LAMP DISPOSAL HIGH INTENSITY DISCHARGE	161.000 EACH		
0422	SPV.0060 Special 4010. STRAPPING B-67-135	1.000 EACH		
0424	SPV.0060 Special 4020. EMBEDDED GALVANIC ANODES	87.000 EACH		·
0426	SPV.0075 Special 0001. PAVEMENT CLEANUP PROJECT 1090-30-70	40.000 HRS	·	
0428	SPV.0090 Special 0001. Joint and Crack Repair	1,000.000 LF		
0430	SPV.0090 Special 4010. EXPANSION JOINT SEAL SYSTEM	274.000 LF	·	



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SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0432	SPV.0090 Special 4020. SAWING PAVEMENT DECK PREPARATION AREAS	254.000 LF		
0434	SPV.0105 Special 0001. SURVEY PROJECT 1090- 30-70	LS	LUMP SUM	·
0436	SPV.0105 Special 0002. Survey Project 2445-09-70	LS	LUMP SUM	
0438	SPV.0105 Special 0003. Pavement Cleanup Project 2445-09-70	LS	LUMP SUM	
0440	SPV.0105 Special 1001. MAINTENANCE OF LIGHTING SYSTEMS	LS	LUMP SUM	
0442	SPV.0105 Special 1002. LIGHTING SYSTEM INTERGRATOR	LS	LUMP SUM	
0444	SPV.0105 Special 1003. LIGHTING SYSTEM SURVEY	LS	LUMP SUM	·
0446	SPV.0135 Special 0001. VIBRATION MONITORING	2.000 MON		
0448	SPV.0165 Special 4010. LONGITUDINAL GROOVING BRIDGE DECK **P**	8,995.000 SF		
0450	SPV.0165 Special 4020. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131 **P**	3,550.000 SF		
0452	SPV.0165 Special 4030. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-132 **P**	4,000.000 SF	<u></u>	
0454	SPV.0165 Special 4040. FIBER WRAP REINFORCING STRUCTURAL	458.000 SF		
	Section: 000)1	Total:	

Total Bid: