

VILLAGE OF SARANAC LAKE

SARANAC LAKE, NEW YORK

ENTRY SIGNS

MAYOR
JAMES WILLIAMS

VILLAGE BOARD MEMBERS

MATT SCOLLIN
KELLY BRUNETTE
RICH SHAPIRO
TOM CATILLAZ

VILLAGE MANAGER
ERIK STENDER



LOCATION MAP

NTS



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PROJECT TITLE:

VILLAGE OF SARANAC LAKE
ENTRY SIGNS

North Woods Engineering PLLC
348 Lake Street · Saranac Lake, NY 12983
(518) 891-4975
www.north-woods-engineering.com

New York State Certified
Service-Disabled Veteran-Owned Business

DRAWING TITLE:

COVER

LOCATION: VILLAGE OF SARANAC LAKE, NY

DRAWN BY: BM DOUGLASS DATE: 08.5.22 ORIGINAL

CHECKED BY: JA GARSO DATE: 08.5.22 11"x17"

CAD FILE: VSL Entry Signs.layout

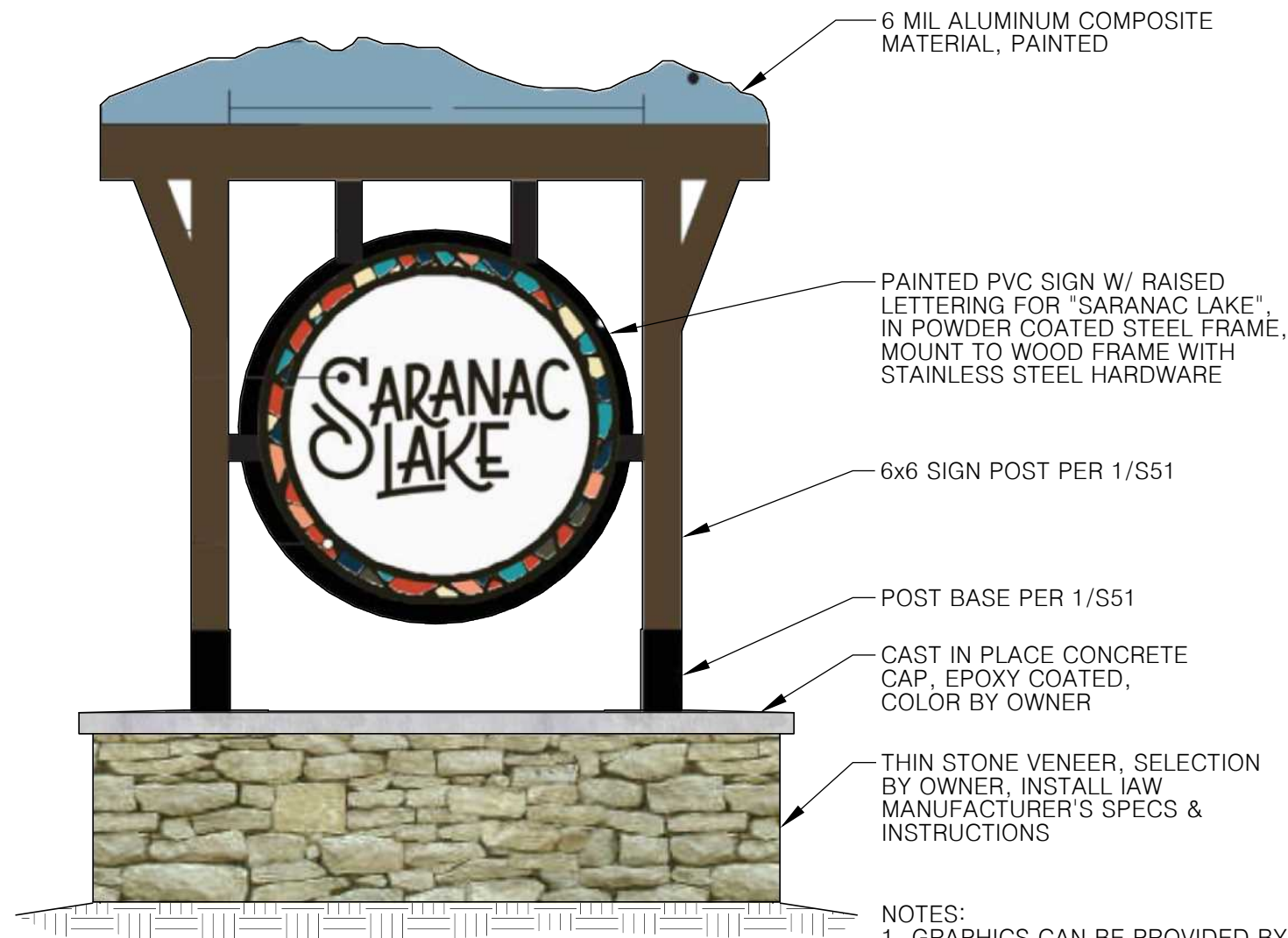
PROJ NO: 22-049

REVISION:

DRAWING

NUMBER:

COV



6 MIL ALUMINUM COMPOSITE MATERIAL, PAINTED

PAINTED PVC SIGN W/ RAISED LETTERING FOR "SARANAC LAKE", IN POWDER COATED STEEL FRAME, MOUNT TO WOOD FRAME WITH STAINLESS STEEL HARDWARE

6x6 SIGN POST PER 1/S51

POST BASE PER 1/S51

CAST IN PLACE CONCRETE CAP, EPOXY COATED, COLOR BY OWNER

THIN STONE VENEER, SELECTION BY OWNER, INSTALL IAW MANUFACTURER'S SPECS & INSTRUCTIONS

NOTES:
1. GRAPHICS CAN BE PROVIDED BY VSL TO CONTRACTOR FOR SIGNAGE.

2. THIN STONE VENEER ON ALL 4 SIDES OF BASE FOR SIGNS ON ROUTE 3 EASTBOUND AND ROUTE 86 NORTHBOUND. OMITTED ON BACK FOR SIGNS ON ROUTE 3 WESTBOUND AND ROUTE 86 SOUTHBOUND.

1 SIGN ELEVATION
A20 1/2"=1'



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ELEVATION

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REVISION:

DRAWING NUMBER: **A20**

GENERAL NOTES

- FOUNDATION DESIGN IS BASED ON SKETCHES OF SIGN PROVIDED BY VILLAGE OF SARANAC LAKE. NOTIFY ENGINEER IF DESIGN OF SIGN CHANGES SUBSTANTIALLY.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS BY GOVERNING AGENCIES HAVING JURISDICTION OVER THE PROJECT.

FOUNDATION NOTES

- FOOTINGS SHALL BEAR ON FIRM UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL.
- ALLOWABLE SOIL BEARING PRESSURE (PER STRUCTURAL DESIGN NOTES) SHALL BE VERIFIED BY OWNER'S REPRESENTATIVE BEFORE PLACING FOUNDATION CONCRETE.
- SOIL BEARING SURFACES PREVIOUSLY ACCEPTED BY OWNER'S REPRESENTATIVE, WHICH ARE ALLOWED TO BE SATURATED, FROZEN, OR DISTURBED SHALL BE REWORKED TO THE SATISFACTION OF OWNER'S REPRESENTATIVE.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
- DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.

STRUCTURAL DESIGN INFORMATION

1. LOADING INFORMATION

A. WIND LOAD

- BASIC WIND SPEED..... 100 mph (3 sec gust)
- EXPOSURE C
- $q_z = 17.5$ PSF
- WIND PRESSURE PER ASCE7-16 29.3 (SOLID FREESTANDING SIGNS)
- $C_f = 1.4$
- $p = 20.3$ PSF (APPLIED TO GROSS AREA)

2. SOIL ALLOWABLE BEARING PRESSURE..... 2000 PSF

3. ALL STRUCTURAL ELEMENTS DESIGNED BY OTHERS SHALL MEET THE REQUIREMENTS OF THE 2020 BUILDING CODE OF NEW YORK STATE.



GENERAL CONCRETE NOTES

- ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST RECOMMENDATIONS AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE LOCAL BUILDING CODES.
- ALL CONCRETE WORK SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, UNO. WATER CEMENT RATIO TO BE KEPT TO A MINIMUM TO ENHANCE STRENGTH.
- ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- THE CONCRETE CONTRACTOR SHALL INSTALL (OR GIVE OTHER TRADES AMPLE OPPORTUNITY TO INSTALL) ALL ANCHORS, BOLTS, PLATES, NAILERS, SLOTS, CHASES, PIPE SLEEVES, ETC AS REQUIRED BY OTHER TRADES. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE SETTING SCREEDS AND FORMS. FORM RELEASE OIL TO BE APPROVED NON-TOXIC AND APPLIED TO FORMS PRIOR TO SET-UP.
- FOOTINGS SHALL REST ON SUITABLE UNDISTURBED SOIL OR COMPACTED GRANULAR FILL HAVING A MINIMUM BEARING CAPACITY OF 2000 PSF. ELEVATION OF FOOTINGS ARE SHOWN ON PLANS, BUT ARE SUBJECTED TO REVISIONS WHEN TRUE SOIL CONDITIONS ARE EXPOSED BY EXCAVATION. THE ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY WEAK STRATA, WATER CONDITIONS OR OTHER POOR BEARING CONDITIONS.
- CONCRETE TEMPERATURES DURING THE FIRST SEVEN DAYS SHALL BE MAINTAINED BETWEEN 50 DEG F AND 90 DEG F. RAPID DRYING MUST BE PREVENTED.
- FOUNDATIONS MUST BE AT LEAST SEVEN DAYS OLD BEFORE BACKFILL.
- BACKFILLING SHALL BE DONE BY PLACING SIMULTANEOUS LEVEL LAYERS AROUND THE FOUNDATION SUCH THAT THE DIFFERENCE BETWEEN ONE SIDE AND THE OTHER DOES NOT EXCEED 24 INCHES.
- BACKFILL SHALL BE APPROVED MATERIAL, FREE OF BOULDERS LARGER THAN 6" DIAMETER, ORGANIC MATERIAL, TOPSOIL OR DEBRIS. BACKFILL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT AS DEFINED BY ASTM D1557 (MODIFIED PROCTOR).
- CONTRACTOR TO DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND BRACING NECESSARY TO SAFELY COMPLETE THE CONSTRUCTION. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH OSHA STANDARDS.
- IF NECESSARY, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND CONTINUOUSLY DEWATER THE SITE TO FACILITATE THE CONSTRUCTION AND SAFE WORKING CONDITIONS.
- ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION.

CONCRETE MIX DESIGN

LOCATION	UNIT	MEASUREMENT
EXTERIOR CONCRETE WALLS AND FOUNDATIONS	COMPRESSIVE STRENGTH (28 DAY)	4000 PSI
	WATER/CEMENT RATIO (MAX)	0.44 BY WEIGHT (MASS)
	AIR ENTRAINED	6.0% +/- 1.5%

NOTES:

- MIX CONCRETE IN ACCORDANCE WITH ACI 301. DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94.
- SELECT PROPORTIONS FOR NORMAL WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301. PROVIDE MIX DESIGN FOR REVIEW AND ACCEPTANCE BY ENGINEER PRIOR TO USE.
- LIMIT FLY ASH TO 15%.
- USE ACCELERATING ADMIXTURES IN COLD WEATHER ONLY WHEN APPROVED BY ENGINEER. USE OF ADMIXTURES WILL NOT RELAX COLD WEATHER PLACEMENT REQUIREMENTS.
- USE OF CALCIUM CHLORIDE IS PROHIBITED UNLESS APPROVED BY ENGINEER IN WRITING.
- USE SET RETARDING ADMIXTURES DURING HOT WEATHER ONLY WHEN APPROVED BY ENGINEER.

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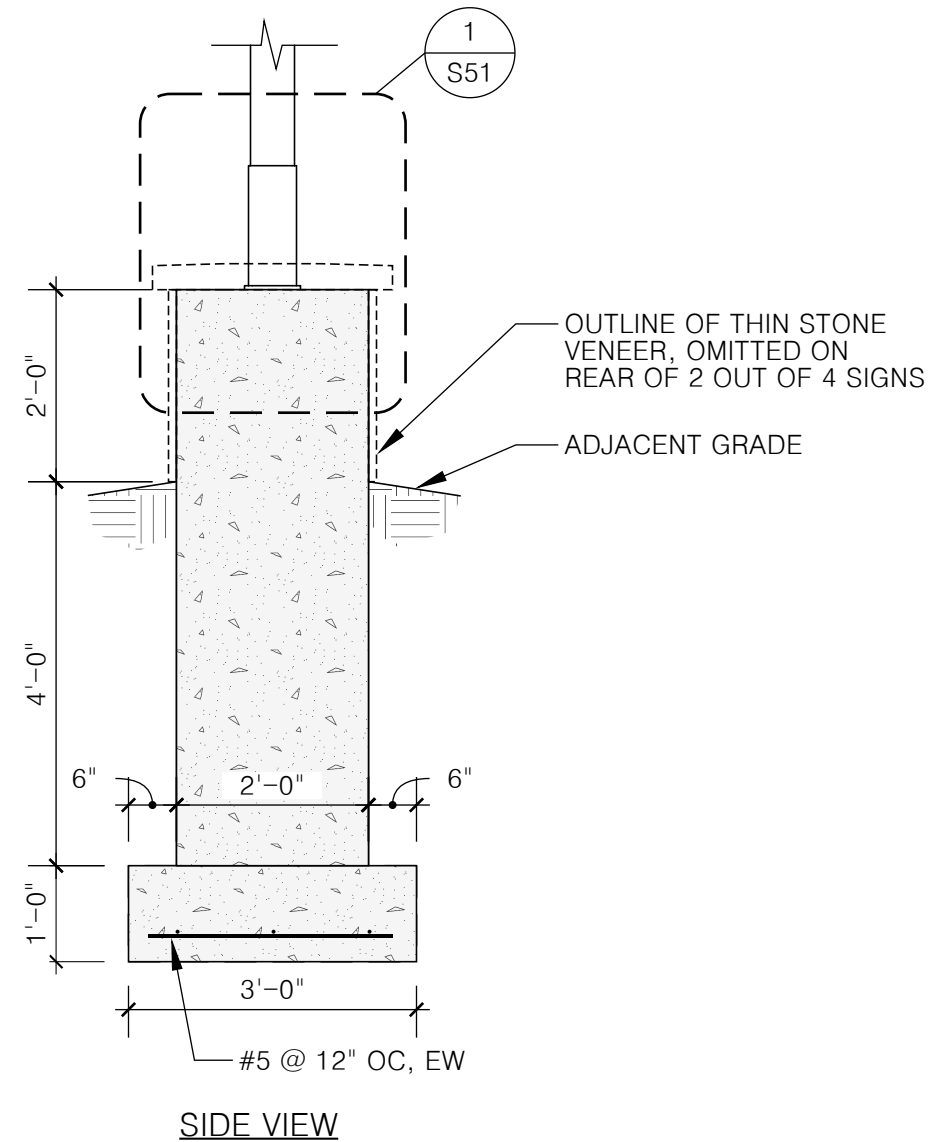
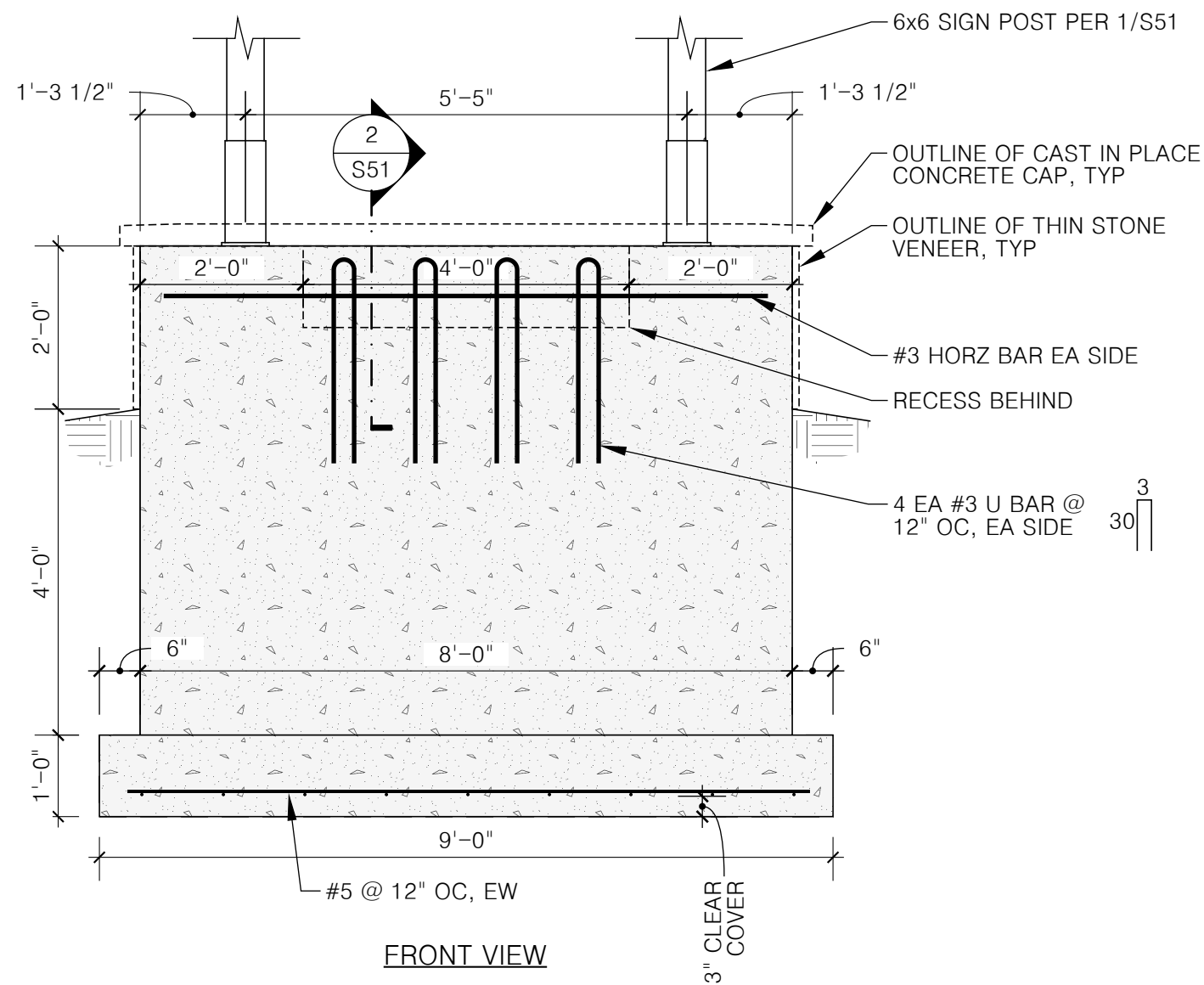
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REVISION:

DRAWING NUMBER:

S00



1 FOUNDATION DETAIL
S50 1/2"=1'



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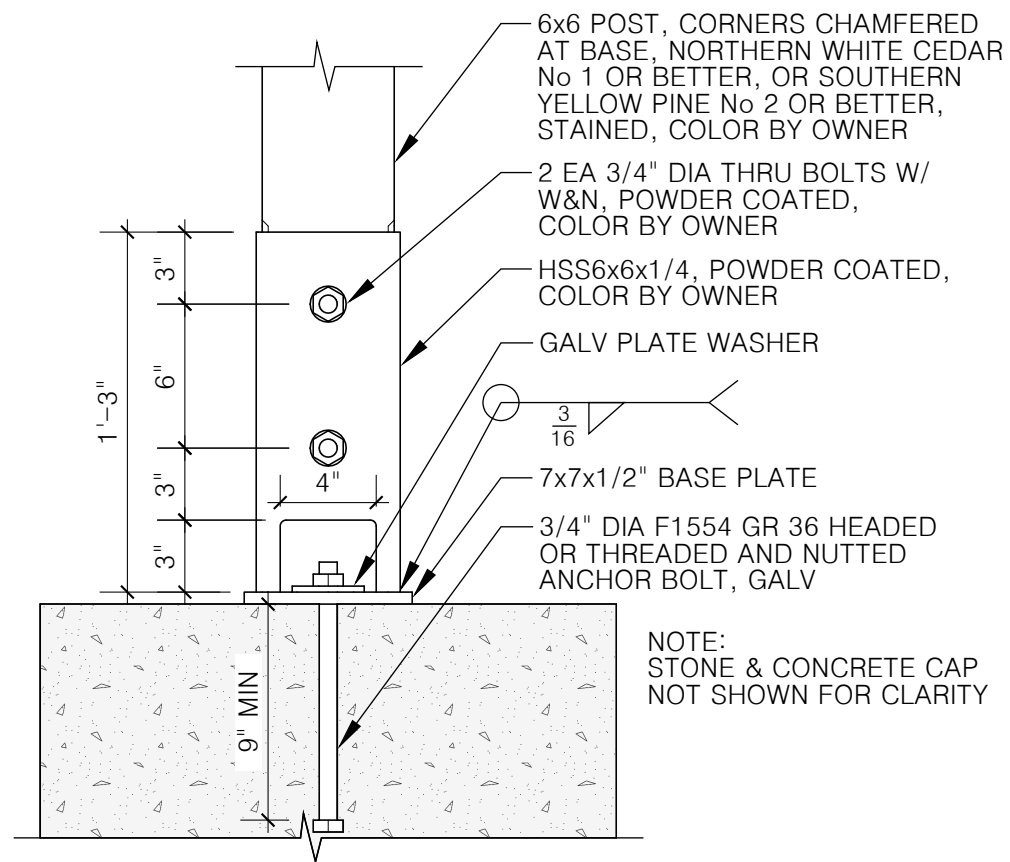
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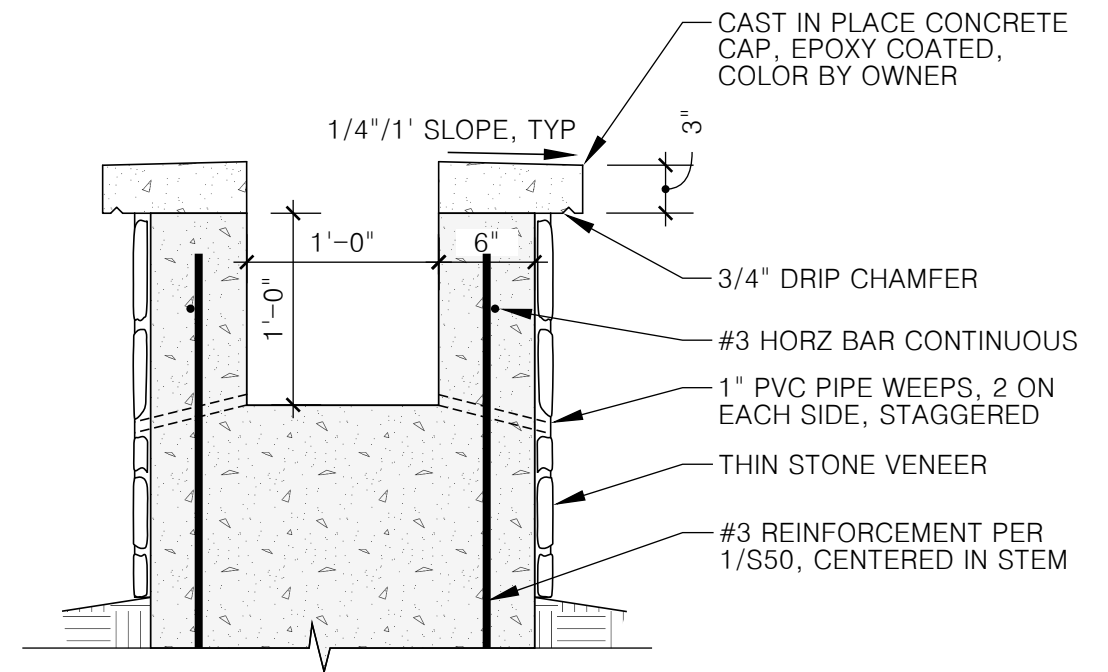
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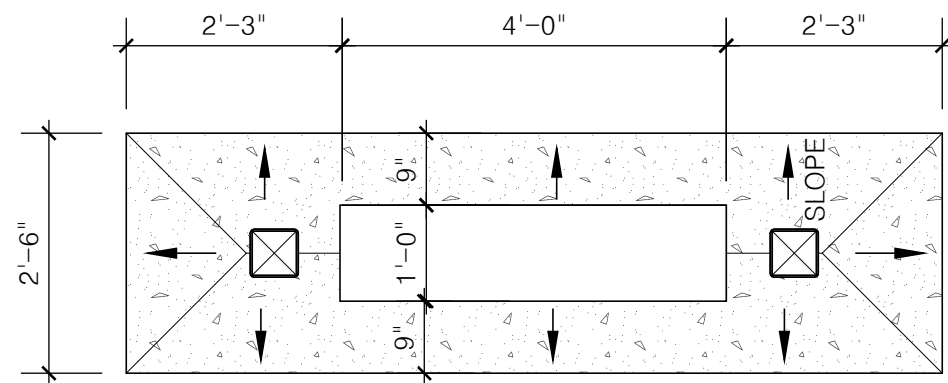
S50



1 POST CONNECTION DETAIL
S51 1 1/2"=1'



2 SECTION THROUGH PLANTER
S51 1" = 1'



3 CONCRETE CAP PLAN
S51 1/2"=1'



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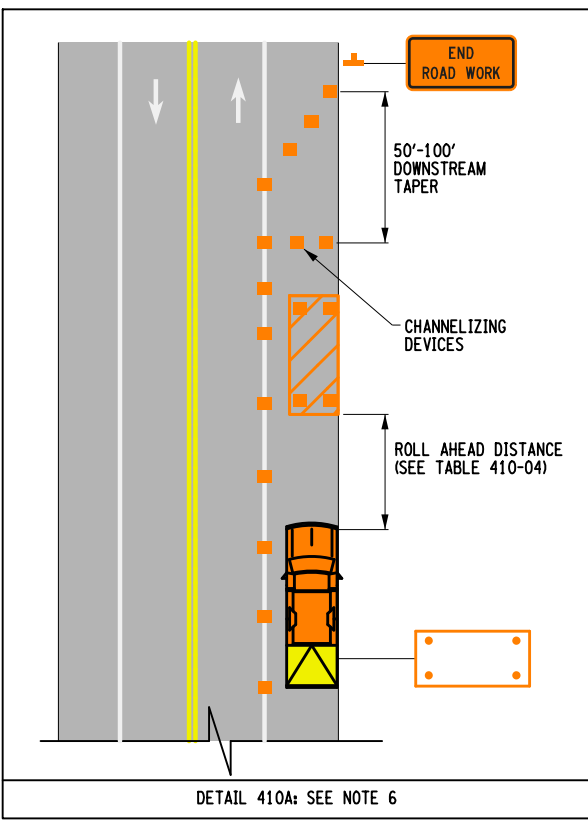
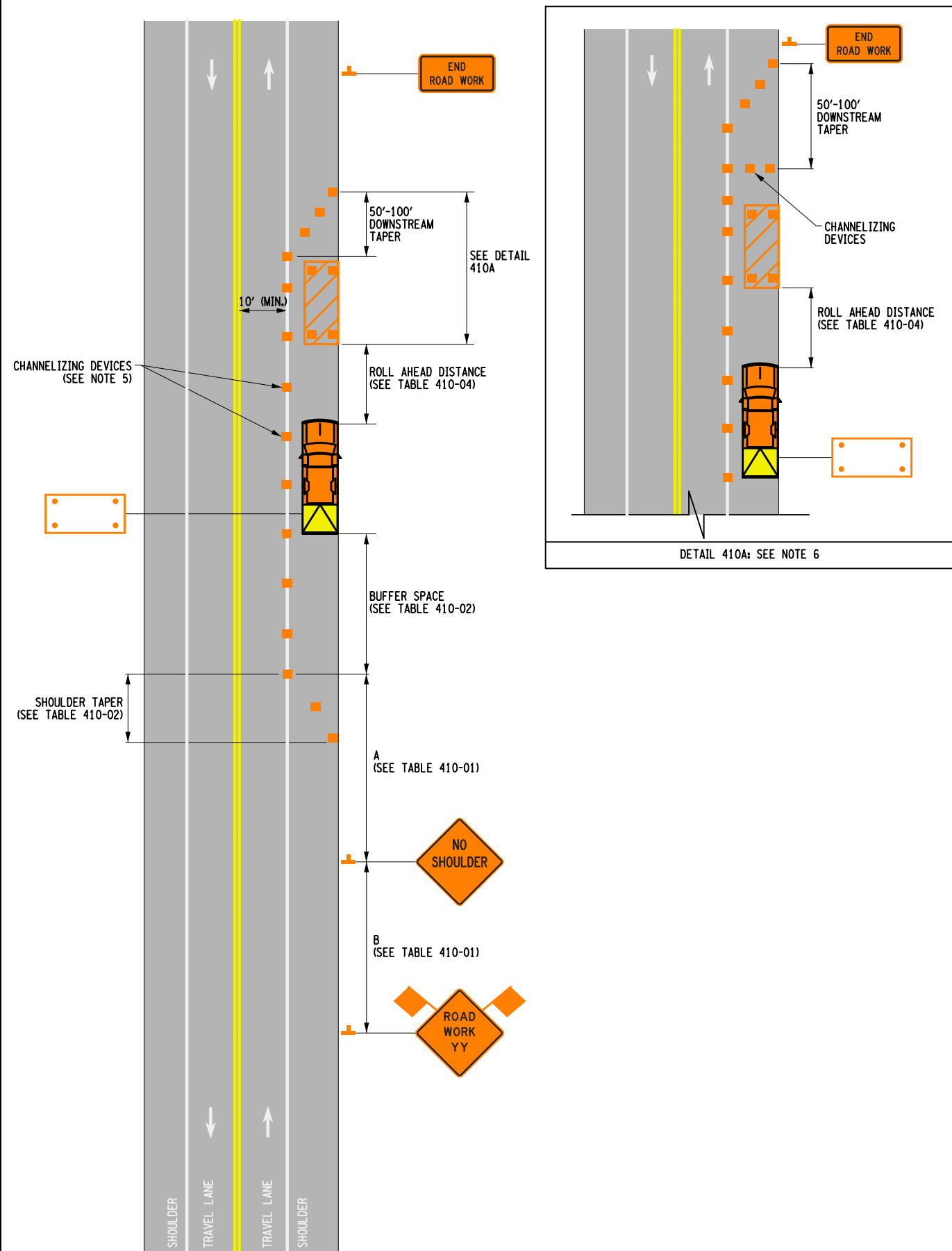
REVISION:

DRAWING
NUMBER:

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USC MAY 01, 2022

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 DATE/TIME = 06-DEC-2021 15:59
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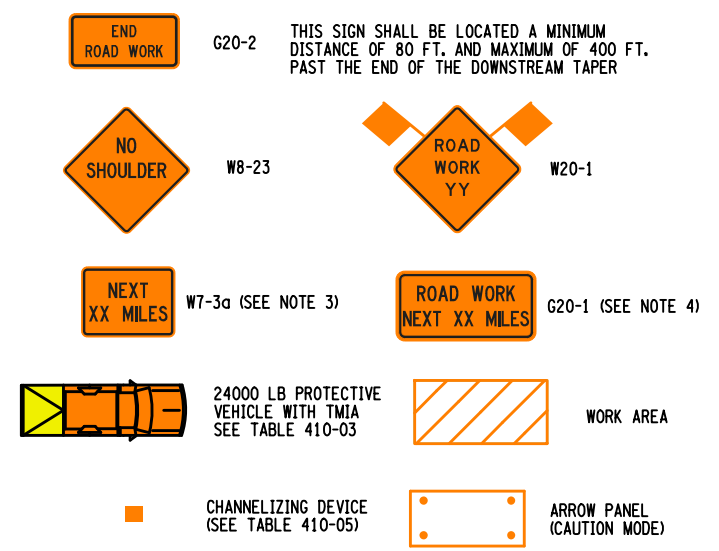


NOTES:

1. INTERMEDIATE-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. XX IS THE EXPECTED OVERALL LENGTH OF THE OPERATION TO BE COMPLETED WITHIN THE WORK DAY. A SUPPLEMENTAL DISTANCE PLAQUE W7-3a SHALL BE USED WITH SIGN W20-1 WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK MAY BECOME GREATER THAN 2 MILES AS A RESULT OF THE FOLLOWING SITUATIONS:
 - MULTIPLE WORK LOCATIONS ARE ANTICIPATED WITHIN XX MILES FROM THE W20-1 SIGN
 - WORK AREA WILL BE RELOCATED DURING THE DURATION OF THE WORK WITHIN XX MILES FROM THE W20-1 SIGN
 THE SUPPLEMENT SIGN W7-3a SHALL INDICATE THE MAXIMUM ANTICIPATED DISTANCE BETWEEN THE W20-1 SIGN AND THE FARTHEST WORK LOCATION.
4. WHEN MULTIPLE WORK LOCATIONS EXIST WITHIN XX MILES FROM THE W20-1 SIGN, A G20-1 SIGN SHALL BE PLACED EVERY TWO MILES INDICATING THE DISTANCE FROM THE SIGN TO THE FARTHEST WORK LOCATION.
5. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 20' IN THE ACTIVE WORK SPACE.
6. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
7. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.

NOTES ON NIGHTTIME WORK:

- N1. WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
- N2. ALL SIGNS, STOP/SLOW PADDLES AND RED FLAGS USED TO WARN/ALERT/CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
- N3. ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMETS AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
- N4. VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS OR FLASHING LED BEACONS AT ALL TIMES.
- N5. LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
- N6. LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
- N7. LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL EQUIPMENT, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
- N8. ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
- N9. PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL.
- N10. SEE NIGHTTIME SAFETY BULLETIN, HDM §16.5.7, & STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.



NOT TO SCALE

REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY SHOULDER CLOSURE INTERMEDIATE TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-410	

TABLE 410-01: ADVANCE WARNING SIGN SPACING		
ROAD TYPE	DISTANCE BETWEEN SIGNS	
	A (FT.)	B (FT.)
URBAN (≤ 30 MPH*)	100	100
URBAN (35-40 MPH*)	200	200
URBAN (≥ 45 MPH*)	350	350
RURAL	500	500

* PRECONSTRUCTION POSTED SPEED LIMIT

TABLE 410-02: LONGITUDINAL BUFFER SPACE AND TAPER LENGTHS							
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	155/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5

TABLE 410-03: PROTECTIVE VEHICLE REQUIREMENTS				
CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEWAY		
		≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
	EXPOSURE CONDITIONS ¹			
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	SEE NOTE 2	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	SEE NOTE 2	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2

LEGEND

P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY

TMIA: TMIA REQUIRED

NOTES:

1. THE EXPOSURE CONDITIONS ASSUMES THERE IS NO POSITIVE PROTECTION PRESENT

2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

TABLE 410-04: ROLL AHEAD DISTANCE		
ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3


TABLE 410-05: CHANNELIZING DEVICE APPLICATION FOR INTERMEDIATE-TERM STATIONARY WORK ZONES										
WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE II BARRICADES
INTERMEDIATE-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 DAYLIGHT PERIOD OR NIGHTTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR	20 FT. *	X							X	X
	40 FT.	X							X	X
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²	X		X ²				X ²	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X		X	X			X	X	X
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	X
	40 FT.	X		X	X	X		X	X	X

NOTES: X= ALLOWED BLANK = NOT ALLOWED O = OPTIONAL
 1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
 2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

* SEE NOTE 5 ON SHEET 1 OF 2.

TABLE 410-06: REQUIRED SIGN SIZES*		
SIGN	NON-FREEWAY	FREEWAY
G20-2	36x18	48x24
W20-1	36x36	48x48
W21-5	36x36	48x48
W7-3a	24x18	36x30
G20-1	36x18	48x24
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

 <p>NEW YORK STATE OF OPPORTUNITY.</p>	<p>Department of Transportation</p>
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