



Capital of the Adirondacks

Village of Saranac Lake 39 Main Street, 2nd Floor Suite 9 • Saranac Lake, NY 12983-2294 • Phone: (518) 891-4150 • www.saranaclakeny.gov

PUBLIC NOTICE INVITATION TO BID

NOTICE is hereby given, that sealed bids for the Village of Saranac Lake Entry Signs Project, complete, will be received until 29 September 2022 at 1:00 pm at the Village of Saranac Lake Offices, 39 Main Street, Suite 9, Saranac Lake, NY 12983, (518) 891-4150, at which time they will be opened and publicly read. Bids shall be submitted in sealed envelopes, addressed to the Village Clerk, and shall bear on the face thereof, the name and address of the bidder and the appropriate contract title "Village of Saranac Lake Entry Signs Project".

Bid details can be found at The Village Office 39 Main Street Saranac Lake NY 12983, or online at www.saranaclakeny.gov > Documents and Forms > Public Notices > Bids & RFQ's & RFQ's

00 11 13 Advertisement for Bids
Village of Saranac Lake
Entry Signs

NOTICE is hereby given, that sealed bids for the Village of Saranac Lake Entry Signs Project, complete, will be received until 29 September 2022 at 1:00 pm at the Village of Saranac Lake Offices, 39 Main Street, Suite 9, Saranac Lake, NY 12983, (518) 891-4150, at which time they will be opened and publicly read. Bids shall be submitted in sealed envelopes, addressed to the Village Clerk, and shall bear on the face thereof, the name and address of the bidder and the appropriate contract title "Village of Saranac Lake Entry Signs Project". An award date on or about 10 October 2022 is planned. All work, including all testing and final clean-up, shall be substantially complete by 9 November 2022, with final completion by 16 November 2022.

Refer to the Plans and the Specifications, and all labor, tools, materials and equipment necessary to complete required work for Village of Saranac Lake Entry Signs, Saranac Lake, New York.

Prevailing Wage Rates shall be paid to workers on the project. The Village of Saranac Lake is exempt from paying sales and compensating use taxes of the State of New York, and its cities and counties, on all materials to be incorporated into the work.

Schedule of Important Dates and Times

Pre-Bid Meeting: 15 September 2022 - 1:00 PM, on site
End of Questions: (Close of Business) 22 September 2022
Addendum: (If Required) 26 September 2022
Bids Due: 29 September 2022 - 1:00 PM
Substantial Completion: 9 November 2022
Final Completion: 16 November 2022

Electronic copies of Bid Documents may be obtained from North Woods Engineering by sending written request to info@north-woods-engineering.com

Only Registered Plan Holders shall be allowed to submit a bid. (Phone requests will not be honored.) Addenda, if any, will be issued only to those persons whose name and address are on record as having obtained the contract documents from North Woods Engineering.

Bid selection will be made to the lowest qualified, responsible Bidder. The Village of Saranac Lake reserves the right to reject any or all Bids, to waive any informality therein, and to select the Bid, the acceptance of which, in its judgement, will best assure the efficient performance of the Work.

By Order of the Village of Saranac Lake
James Williams, Mayor

End of Section

00 21 13 Instructions to Bidders
Village of Saranac Lake
Entry Signs

Bids received by mail or by hand after the designated time as outlined in the “Advertisement for Bids” shall be rejected.

Bids should not include sales and compensating use taxes on materials incorporated into the work.

Complete sets of Bid Documents must be used in preparing Bids; neither Owner nor Engineer assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.

It is the responsibility of each Bidder before submitting a Bid, to examine the Contract Documents thoroughly and visit the site to become familiar with local conditions that may affect cost, progress, performance, or furnishing of the Work. Bidders must notify the Engineer of all conflicts, errors, or discrepancies in the Contract Documents as of the “End of Questions Date” noted in the Advertisement to Bid.

All questions about the meaning or intent of the Contract Documents are to be directed to the Engineer. Interpretations or clarifications considered necessary by the Engineer in response to such questions will be issued by Addenda distributed to all parties recorded by the Engineer as having received the Bid Documents. Questions received after the “End of Questions Date” may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

In order to demonstrate qualifications to perform the Work, each Bidder must be prepared to submit within five days of Owner’s request written evidence, such as financial data, previous experience, present commitments and other such data.

For a Bid to be considered complete, the following items must be provided:

- A. Bid Schedule - including acknowledgment of Addenda (as needed)
- B. Certificate of Non-Collusion
- C. Affidavit of Worker’s Compensation

The Owner reserves the right to waive any informalities or irregularities in the Bids received, and to reject any or all Bids without explanation.

End of Section

**00 41 00 Bid Schedule
Village of Saranac Lake
Entry Signs**

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following sum:

Base Bid

ITEM NO.	BID ITEM	ESTIMATED QUANTITY	BID AMOUNT
1	Mobilization, Demobilization and General Conditions	lump sum	
2	ALL Construction Work for sign located on NYS Route 3 Eastbound	lump sum	
3	ALL Construction Work for sign located on NYS Route 3 Westbound	lump sum	
4	ALL Construction Work for sign located on NYS Route 86 Southbound	lump sum	
5	ALL Construction Work for sign located on NYS Route 86 Northbound	lump sum	

Note: Sales tax is not required for this project.

BASE BID TOTAL\$ _____

Respectfully Submitted:

Signature _____ Address _____

Title _____ Address _____

Date _____ License Number (if applicable) _____

(SEAL - if BID is by a corporation) _____ Attest: _____

Addendum 1 Acknowledgment (as needed) _____

Addendum 2 Acknowledgment (as needed) _____

End of Section

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



SIGN LOCATIONS

LOCATION MAP

NTS



IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY.

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

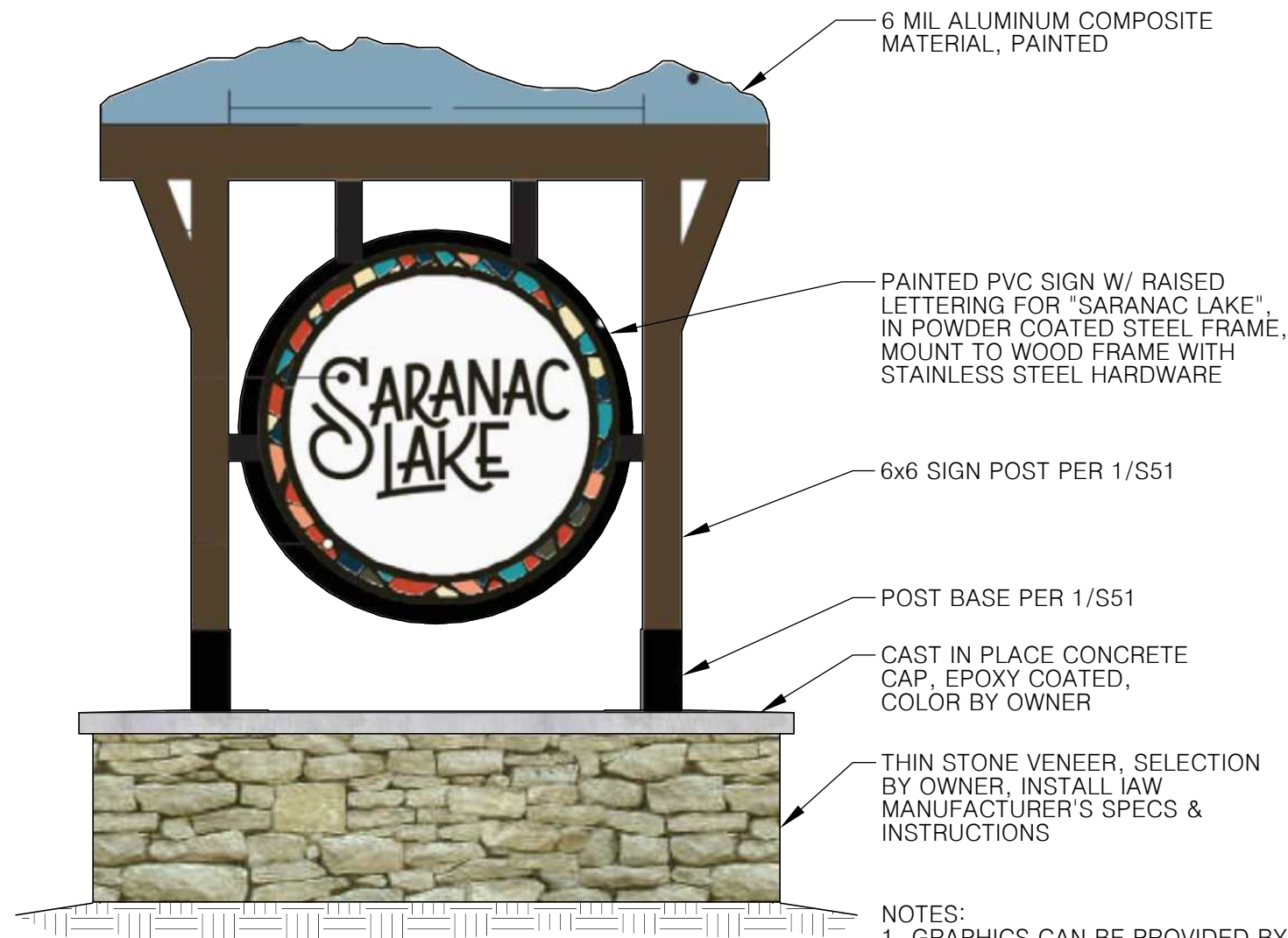
PROJ NO: 22-049

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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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:
ELEVATION

LOCATION: VILLAGE OF SARANAC LAKE, NY

DRAWN BY: BM DOUGLASS DATE: 08.5.22 ORIGINAL 11"x17"

CHECKED BY: JA GARSO DATE: 08.5.22

CAD FILE: VSL Entry Signs.layout

PROJ NO: 22-049

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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PROJECT TITLE:

VILLAGE OF SARANAC LAKE
ENTRY SIGNS



DRAWING TITLE:

NOTES

LOCATION: VILLAGE OF SARANAC LAKE, NY

DRAWN BY: BM DOUGLASS DATE: 08.5.22 ORIGINAL 11"x17"

CHECKED BY: JA GARSO DATE: 08.5.22

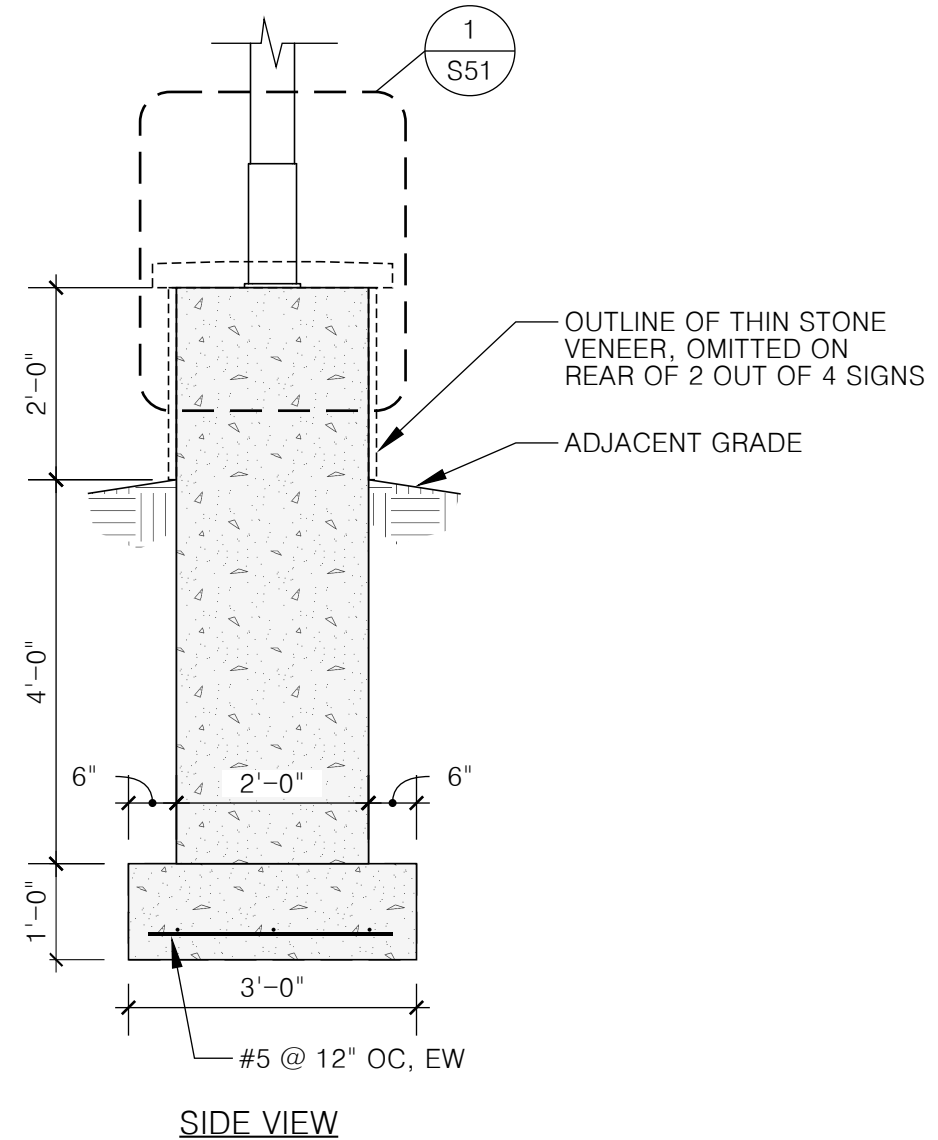
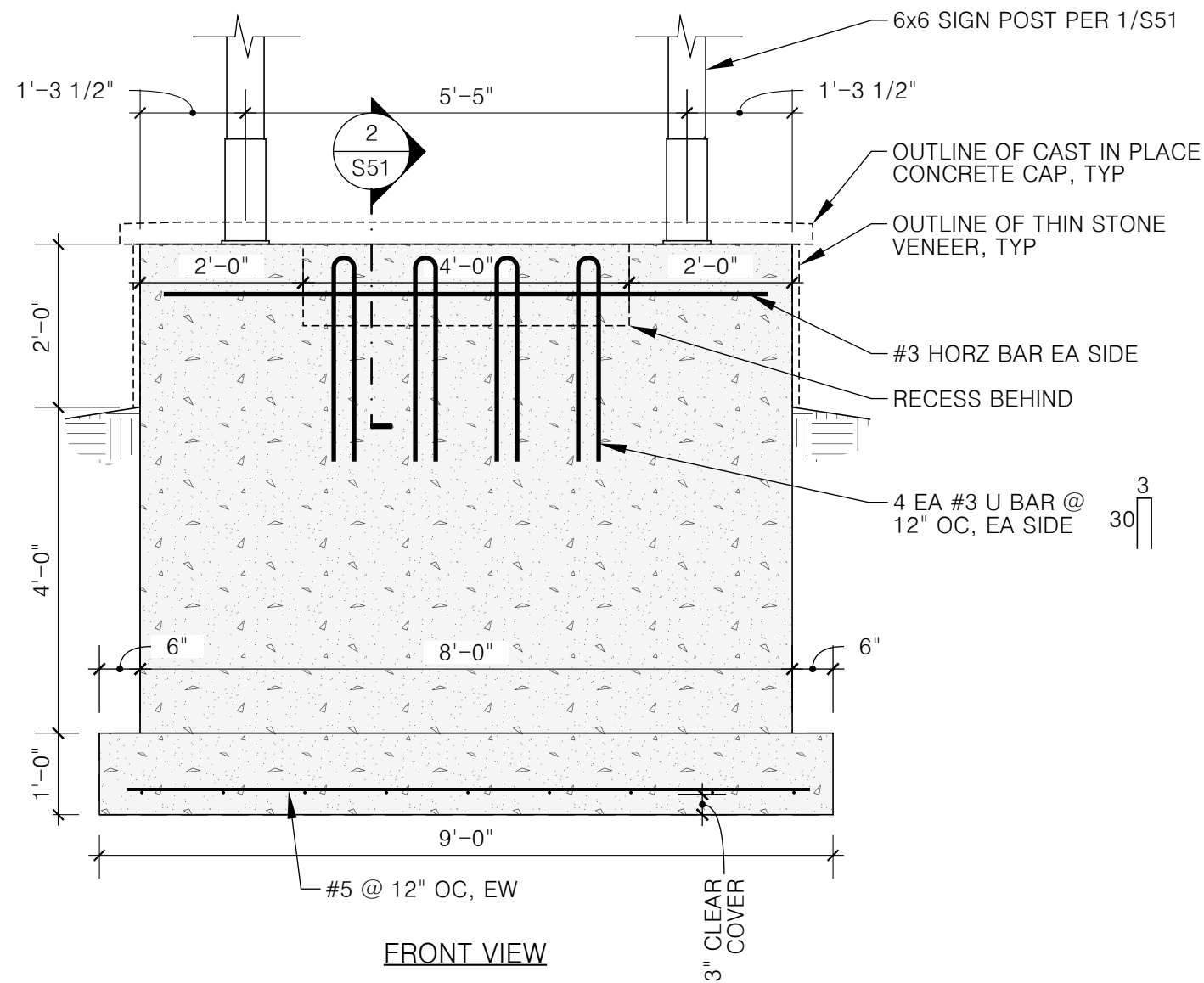
CAD FILE: VSL Entry Signs.layout

PROJ NO: 22-049

REVISION:

DRAWING NUMBER:

S00



1 FOUNDATION DETAIL
S50 1/2"=1'



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ORIGINAL
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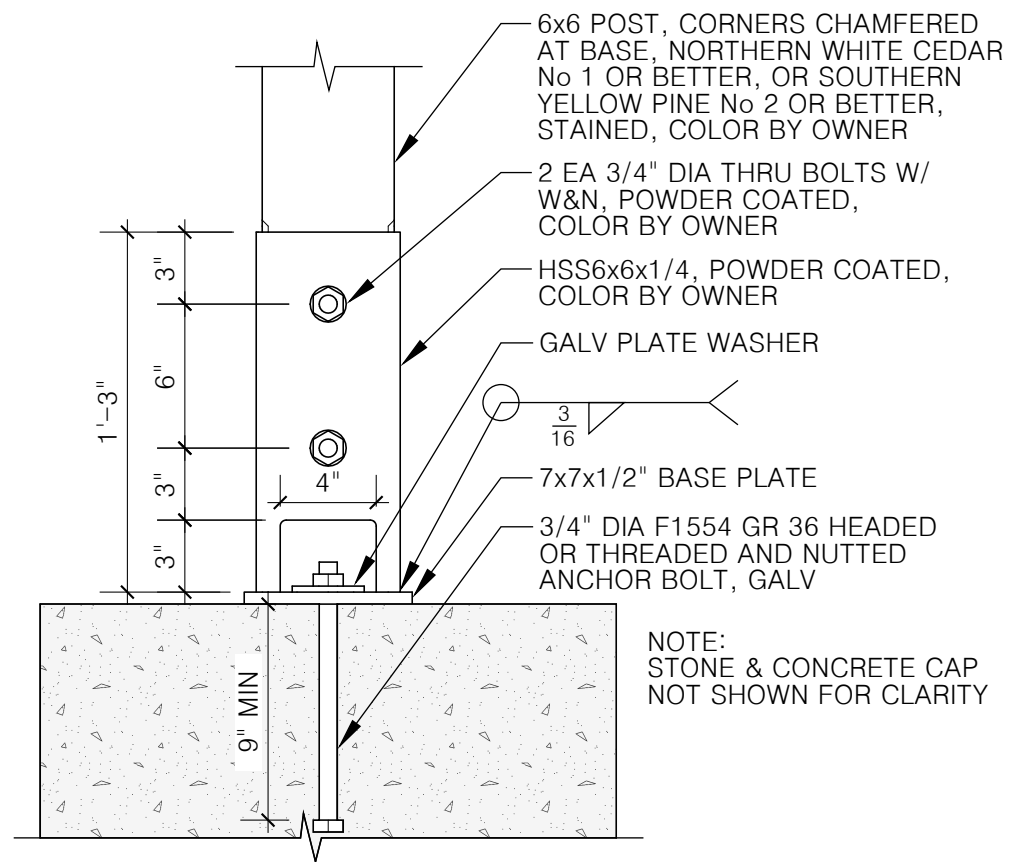
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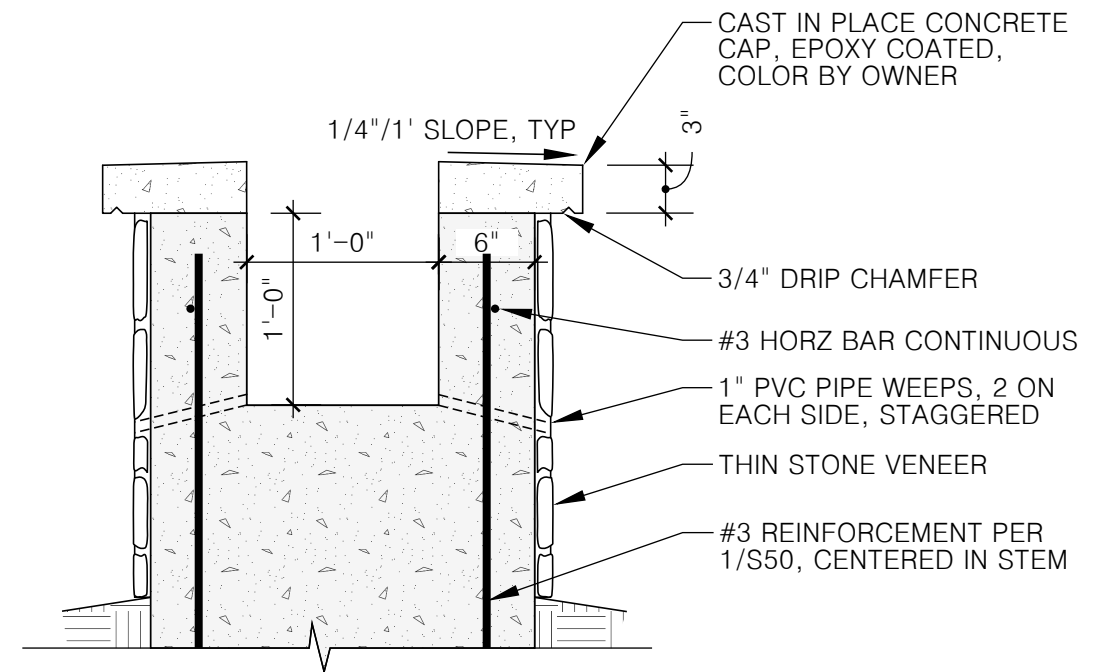
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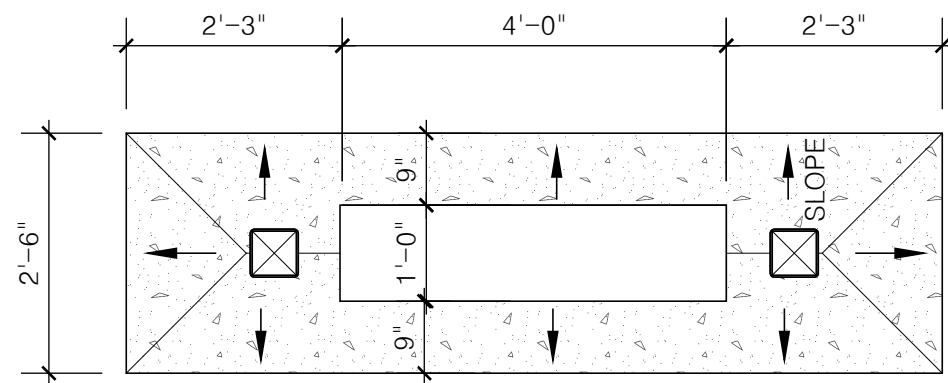
S50



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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ENTRY SIGNS

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DRAWING TITLE:

DETAILS

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DRAWN BY: BM DOUGLASS DATE: 08.5.22

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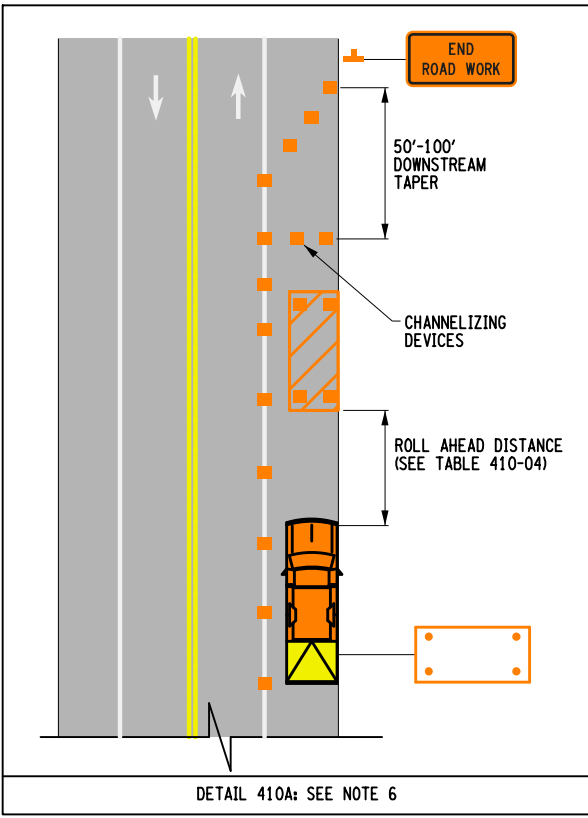
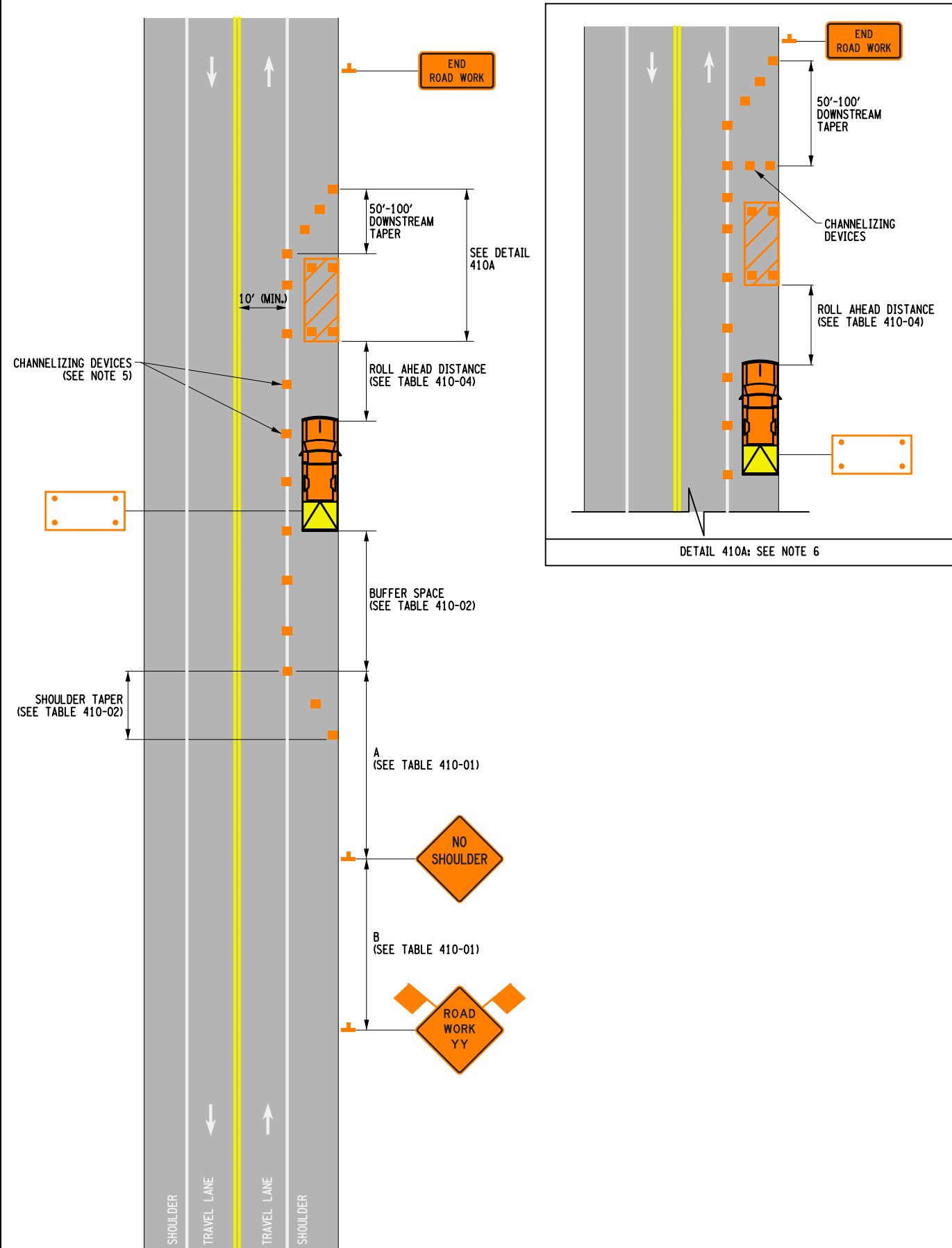
REVISION:

DRAWING
NUMBER:

S51

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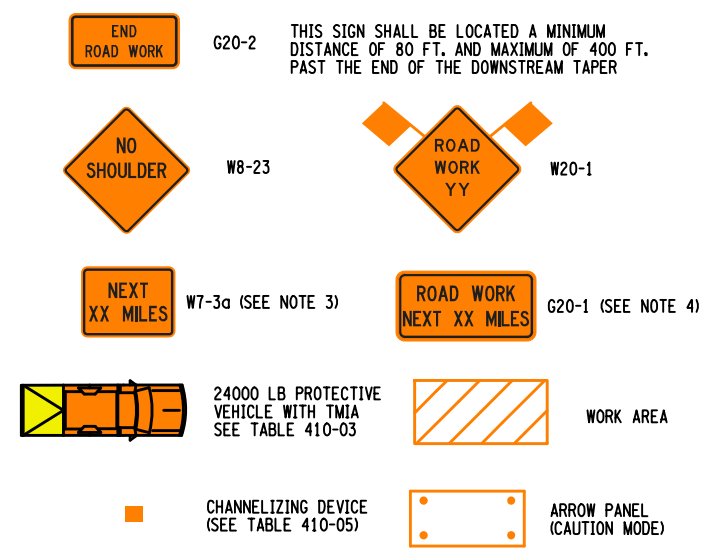


NOTES:

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	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.	X		X	X	X		X	X	0

NOTES: X= ALLOWED BLANK = NOT ALLOWED 0 = 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>
<p>U.S. CUSTOMARY STANDARD SHEET</p>	
<p>WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY SHOULDER CLOSURE INTERMEDIATE TERM OPERATION (SHEET 2 OF 2)</p>	
<p>APPROVED DECEMBER 2, 2021</p> <p><i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM</p>	<p>ISSUED UNDER EI 21-028</p> <p>619-410</p>