

BID # RVC24-03

ADDENDUM NUMBER 01

REQUEST FOR BIDS FOR:

**Woodbury Street Retaining Wall Repair
at River Valley Community College, 438 Washington St, Keene, NH, 03431
A component of the Community College System of New Hampshire
26 College Drive, Concord, NH 03301
March 28, 2024**

TO: ALL CONTRACT BIDDERS OF RECORD

This Addendum forms a part of the Contract Documents and modifies the Request for Bids dated March 15, 2024 with amendments and additions noted below. This Addendum consists of a total of Three (3) pages, Plus a complete set of Revised Plans and a Revised Bid Proposal.

CLARIFICATIONS AND/OR REVISIONS TO THE REQUEST FOR PROPOSAL:

REVISION #1: Section 00110-1 Invitation to Bid, correct bid date, shall read April 9, 2024.

REVISION #2: Section 01100 SUMMARY

Remove 1.2.A.1 and 1.2.A.2 replace with:

1. Description: This project generally involves the *removal* of existing sidewalks, pavements, and curbing; construction of guardrail, terminal end units, curbing and sidewalk; and the selective demolition and repair of an existing retaining wall adjacent to or within the Woodbury Street public right-of-way, as more accurately detailed on the project drawings.

Remove 1.2.B and replace with:

2. The Project will include but not be limited to the Disciplines of: Earthwork and Utility contractors, Portland cement concrete tradesman, and masons.

Correction and Clarification: The College has access to this site for this project however no longer owns or occupies the property. The Owners Representative will coordinate between the new owners and contractor access to the site.

REVISION #3: Section 00708-9 Part 4 ACCESS TO THE WORK. 4.1

If it's not clear with in the authority to observe and/or inspect by saying "government officials" the City also has the authority to observe and/or inspect as well.

REVISION #4: Section 00708-12 PART 10 PAYMENTS TO CONTRACTOR. 10.4 Retainage:

Omit par B "Irrevocable Letter of Credit" is not an option.

REVISION #5: Section 00204-5.

10.2 and 10.3 and 10.4: The City shall also be listed as an Additional Insured by the Contractor

REVISION #6: Section 00708 PART 10, 10.8 RELEASE OF CLAIMS

10.8: The Contractor shall also release the City of all Claims.

REVISED BID PROPOSAL (Attached):

Substitute Section 00300 Bid Proposal Form – CCSNH in its entirety. Eight (8) pages

LIST OF PLAN REVISIONS (Complete Set of Plans Attached, Thirteen (13) pages)

1. Plans Entitled: 'Woodbury Street; Retaining Wall Repair; (RVC24-03)'; Dated: 03/15/2024; Last Revised: 03/19/2024
 - a. Sheet No C-1 'Site Plan'
 - i. Terminal End Units (TL-2; 25') were removed and replaced with guard rail end sections;
 - ii. Limits of Portland cement concrete sidewalk, sawcut bituminous asphalt pavement, granite curbing, and other features were adjusted due to the removal of the terminal end units;
 - iii. Callout stating 'Patch asphalt sidewalk as required to provide smooth transition between new concrete sidewalk and existing asphalt sidewalk', at the westerly extent of the project
 - iv. The asphalt sawcut distance was revised to 1'-0" from the granite curb, on the typical cross section;
 - v. A callout stating 'Apply bituminous tackifier to asphalt match', was added on the typical cross section.
 - b. Sheet No C-2 the limits for the removal of concrete sidewalk, removal of asphalt sidewalk, bituminous asphalt curb, and remove and salvage existing vertical curb were adjusted due to the removal of the terminal end units.
 - c. Sheet No C-4
 - i. 'Terminal Unit Delineation Detail' was modified to place the delineators with posts (Item 621.31 & 621.32) were placed behind the terminal head, per the City of Keene requirements;
 - ii. Guardrail end section detail was added to the plan.
 - d. Sheet No C-5 'TL-2 Parallel EAGRT Platform Detail' Sheet was removed and
 - e. Sheet No C-6 'Details' was renumbered to Sheet C-5
 - i. The pavement patch detail was removed, as it was not pertinent to this type of project.
 - ii. Chain Link Fence detail revised post height to 5'-2" and removed the requirement for privacy fabric/slats.
2. Request for Proposals; Section 0030 Bid Proposal Form – CCSNH; 'Bid List'
 - a. Item No 202.6 'Curb Removal for Salvage'; Estimated quantity is 99 LF;
 - b. Item No 403.12 'Hot Bituminous Pavement Hand Method'; Estimated quantity is 19 T;
 - c. Item No 606.9999 'Beam Guardrail End Unit' was added; Estimated quantity of 2 U;

- d. Item No 607.340 'Chain Link Fence w/ Vinyl Coated Steel Fabric, 4' High'; Estimated quantity is 303 LF;
- e. Item No 608.36999 '6" Concrete Sidewalk [4,000 psi w/ Fiber Mesh]; Estimated quantity is 261 SY;
- f. Item No 609.01 'Straight Granite Curb'; Estimated quantity is 320 LF;
- g. Item No 628.2 'Sawed Bituminous Pavement'; Estimated quantity is 328 LF.

**Acknowledge receipt of this Addendum with the Proposal Form.
Failure to do so may disqualify the Bidder.**

NOTE: IN THE EVENT THAT YOUR BID HAS BEEN SENT TO THIS OFFICE PRIOR TO RECEIVING THIS ADDENDUM, RETURN THE ADDENDUM WITHIN THE SPECIFIED TIME WITH ANY CHANGES YOU MAY WISH TO MAKE AND MARK ON THE REMITTANCE ENVELOPE BID INVITATION NUMBER AND OPENING DATE. RETURNED ADDENDA WILL SUPERSEDE PREVIOUSLY SUBMITTED BID.

Bidder _____

By _____ Date _____
(This Document Must Be Signed)

Name _____
(Please Print or Type Name)



Matthew Moore, P.E.
Director of Capitol Planning & Development
Community College System of New Hampshire
26 College Drive, Concord, N.H. 0330

SECTION 00300 – BID PROPOSAL FORM – CCSNH

PROPOSAL – STIPULATED BASE LUMP SUM GRAND TOTAL BID – GENERAL
CONSTRUCTION

SEALED PROPOSAL TO BE: **Received at this address no later than 2:00 PM, Tuesday,
April 9, 2024.**

Matthew Moore, PE
memooore@ccsnh.edu
Director of Capital Planning & Development
Community College System of New Hampshire
26 College Drive
Concord, New Hampshire 03301

SUBJECT: **Project #: RVC 24-03**
Project Name: Woodbury Street Retaining Wall Repair

1. CERTIFICATION: The undersigned Prime Contractor

Name of Firm: _____

Address of Firm: _____

Phone Number: _____

Email: _____

Signature: _____

Name and Title: _____

(Contractor's Name Printed Here)

FOR

**WOODBURY STREET RETAINING WALL REPAIR
IN KEENE, NEW HAMPSHIRE**

CCSNH PROECT NO. RVC24-03

To the Community College System of New Hampshire (CCSNH), hereinafter called the "OWNER", requests bids for the furnishing of all labor, equipment, and materials required for the Woodbury Street Retaining Wall Repair project in accordance with the Plans and Specifications prepared by *The HL Turner Group, Inc.* of Concord, New Hampshire.

The undersigned, as bidder, declares that the only person or parties interested in this Proposal as principals are those named herein; that this Proposal is made without collusion with any other firm; that the undersigned has carefully examined the location of the proposed work, the

proposed Form of Contract and the Plans and Specifications therein referred to; and the undersigned proposes and agrees if this Proposal is accepted, he will contract with the awarding authority to provide all necessary labor, machinery, tools, apparatus, and other means of construction and to do all the work and furnish all the materials specified in the Contract in the manner and time therein described and according to the requirements of the ENGINEER therein set forth; and the undersigned will take in full payment, therefore, the following unit and total prices, to wit:

SCHEDULE OF PRICES: NOTE: THIS PROPOSAL SHALL BE PREPARED BY THE BIDDER, WITH THE UNIT PRICES SPECIFIED IN BOTH WORDS AND FIGURES, AND THE EXTENSIONS MADE BY THE BIDDER.

ITEM NUMBERS SHOWN ARE GENERALLY IN COMPLIANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) MASTER ITEM LIST.

QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE VERIFIED BY THE CONTRACTOR AND ARE NOT GUARANTEED QUANTITY VALUES.

THIS IS NOT A UNIT BID CONTRACT, AND THE CONTRACT PAYMENT AND TERMS AND CONDITIONS SHALL BE GOVERNED BY THE CONTRACT GENERAL PROVISIONS.

UNIT BIDS ARE SOLELY FOR THE PURPOSE OF COMPARING BIDS AND MAKING PARTIAL PAYMENTS TO CONTRACTORS.

UNIT PRICES AND TOTAL AMOUNT MUST BE EXPRESSED IN BOTH WRITTEN AND FIGURES.

IN THE EVENT OF DISCREPANCY, THE AMOUNT IN WORDS SHALL GOVERN.

1. AWARD OF CONTRACT

Bidders must show three recent years' experience with installations of a similar complexity and cost and prior experience with installations of the materials within 100 miles of the project site.

The successful bidder will be required to comply with State of New Hampshire RSA#21-1:81-a. The successful bidder will be required to furnish a 100% payment and 100% performance bond prior to execution of contract.

2. BASE BID (Stipulated sum)

The award will be based on the proposal that best meets the needs of the college. Factors included will be the cost, completeness of the proposal, quality of the technology provided, and experience of the contractor and installation team. The college reserves the right to waive any informality in or to reject any or all proposals.

Item No.	Quantity	Item Descriptions and Unit Prices Bid	Unit Prices		Amount	
			Dollars	Cents	Dollars	Cents
201.1	0.1 A	CLEARING AND GRUBBING at _____ Dollars and _____ Cents per Acre				

Item No.	Quantity	Item Descriptions and Unit Prices Bid	Unit Prices		Amount	
			Dollars	Cents	Dollars	Cents
202.6	99 LF	CURB REMOVAL FOR SALVAGE at _____ Dollars and _____ Cents per Each				
202.8	295 LF	REMOVAL OF FENCE at _____ Dollars and _____ Cents per Linear Foot				
203.1	145 CY	COMMON EXCAVATION at _____ Dollars and _____ Cents per Cubic Yard				
203.6	30 CY	EMBANKMENT-IN-PLACE (F) at _____ Dollars and _____ Cents per Cubic Yard				
304.3	40 CY	CRUSHED GRAVEL (F) at _____ Dollars and _____ Cents per Cubic Yard				
403.12	19 T	HOT BITUMINOUS PAVEMENT, HAND METHOD at _____ Dollars and _____ Cents per Ton				
403.16	766 LF	PAVEMENT JOINT ADHESIVE at _____ Dollars and _____ Cents per Linear Foot				
604.72	1 EA	GRATES & FRAMES, TYPE B at _____ Dollars and _____ Cents				

Item No.	Quantity	Item Descriptions and Unit Prices Bid	Unit Prices		Amount	
			Dollars	Cents	Dollars	Cents
		per Each				
606.9999	2 U	BEAM GUARDRAIL END UNIT at _____ Dollars and _____ Cents per Unit				
606.28999	305 LF	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST) [W/ BACK W-BEAM RAIL W/O OFFSET BLOCK] at _____ Dollars and _____ Cents per Linear Foot				
607.340	303 LF	CHAIN LINK FENCE W/ VINYL COATED STEEL FABRIC, 4' HIGH at _____ Dollars and _____ Cents per Linear Foot				
608.36999	261 SY	6" CONCRETE SIDEWALK [4,000 PSI W/ FIBER MESH] at _____ Dollars and _____ Cents per Square Yard				
609.01	320 LF	STRAIGHT GRANITE CURB at _____ Dollars and _____ Cents per Linear Foot				
618.7	400 HR	FLAGGERS at _____ Dollars and _____ Cents per Hour				
619.1	1 U	MAINTENANCE OF TRAFFIC [Includes Traffic Control Plan Prep.] at _____ Dollars and _____ Cents				

Item No.	Quantity	Item Descriptions and Unit Prices Bid	Unit Prices		Amount	
			Dollars	Cents	Dollars	Cents
		per Unit				
621.31	1 EA	SINGLE DELINEATOR WITH POST at _____ Dollars and _____ Cents per Each				
621.32	1 EA	DOUBLE DELINEATOR WITH POST at _____ Dollars and _____ Cents per Each				
628.1	5 LF	SAWED CONCRETE PAVEMENT at _____ Dollars and _____ Cents per Linear Foot				
628.2	328 LF	SAWED BITUMINOUS PAVEMENT at _____ Dollars and _____ Cents per Linear Foot				
646.51	50 SY	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM at _____ Dollars and _____ Cents per Square Yard				
692	1 U	MOBILIZATION at _____ Dollars and _____ Cents per Unit				
699.99	1 U	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL at _____ Dollars and _____ Cents per Unit				
999.00	1 U	REPAIRS AND ALTERATIONS TO EXISTING RETAINING WALL				

Item No.	Quantity	Item Descriptions and Unit Prices Bid	Unit Prices		Amount	
			Dollars	Cents	Dollars	Cents
		at _____ Dollars and _____ Cents per Unit				

TOTAL BASE BID LUMP SUM GRAND TOTAL BID:

(Words)

_____ DOLLARS (\$) _____
(Figures)

It is agreed that the Grand Total Price calculated above represents the Contractor's Total Price for all the project work.

The undersigned as bidder understands and agrees that the quantities of work as given for each item (except lump sum items) in this proposal are only approximate and are assumed solely for the comparison of proposals. They are not guaranteed to be accurate statements of estimates of the quantities of work to be performed under this Contract, and any departure therefrom will not be accepted as valid grounds for any claim for loss of profits. In case of variation between unit prices and total prices stated by bidder, the unit prices will be considered to be his bid.

The undersigned further agrees to comply with the requirements as to conditions of employment, wage rates and hours of labor set forth in the Contract Documents.

The undersigned hereby agrees to reach final completion of all the work, shown or specified under this Contract and as shown on the Contract Drawings as follows:

1. Final completion by September 27, 2024

The undersigned agrees that, if he is selected as CONTRACTOR, he will, within five (5) days after the award, execute a Contract in the form attached hereto and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of New Hampshire and satisfactory to the Awarding authority and each in the sum of one hundred percent (100%) of the Contract price, the premiums for which are to be paid by the CONTRACTOR and are included in the various unit prices bid.

The undersigned understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bidding.

ADDENDUM RECEIPT

The undersigned Contractor acknowledges the receipt of the following Addenda to the Bidding and Contract Documents, but he agrees that he is bound by all Addenda, whether or not listed herein:

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

All required qualification forms found in
DOCUMENT 001153 - REQUEST FOR QUALIFICATIONS
to be submitted with Bid forms.

Contractor (Bidder) (Seal)

(Signature and Title)

Address _____

Being a (corporation incorporated)
(under the laws of the)
(State of _____)
(Partnership)
(Individual)

Composed of officers,
partners, or owner, as
follows:

STATEMENT OF NON-COLLUSION

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief: (1) The prices in this bid have been arrived at independently without collusion, consultation, communications, or agreement, for the purpose of restricting competition as to any matter relating to such prices with any other bidder or with any competitor; (2) Unless required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any other competitor, and (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

SIGNATURE: _____

NAME: _____

TITLE: _____

DATE: _____

PHONE: _____

EMAIL: _____

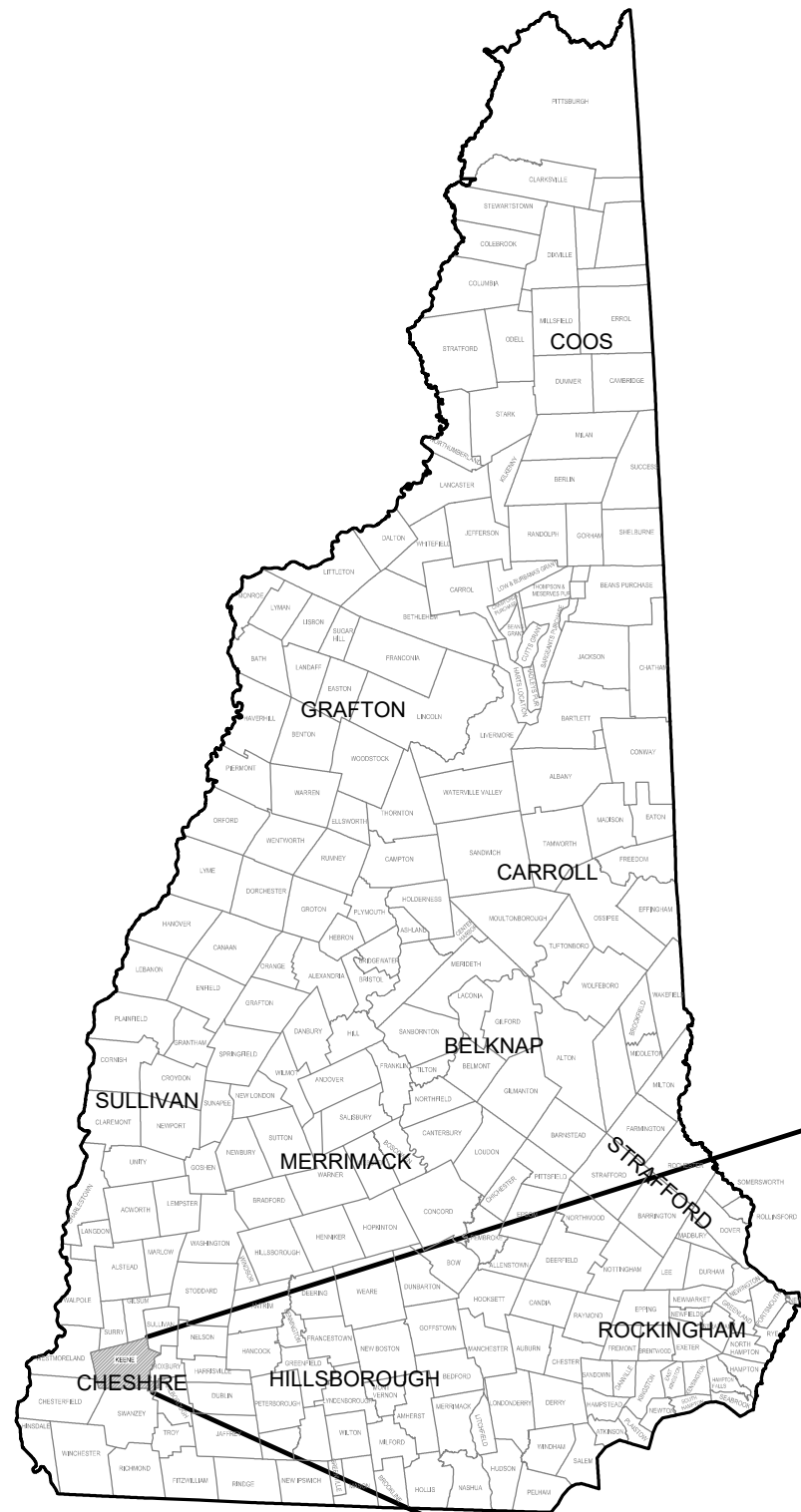
Corporate Seal:

End of Document

WOODBURY STREET RETAINING WALL REPAIR

(RVC24-03)

438 WASHINGTON STREET
KEENE, NEW HAMPSHIRE



LOCATION MAP
1" = 60'

CITY OF KEENE
COUNTY OF CHESHIRE
STATE OF NEW HAMPSHIRE

INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
C0.1	COVER SHEET
C0.2	LEGEND
C0.3	GENERAL NOTES
C0.4	STRUCTURAL TECHNICAL SPECIFICATIONS
C-1	SITE PLAN
C-2	SITE PREPERATION & DEMOLITION PLAN
C-3	BEAM GUARDRAIL DETAIL
C-4	TERMINAL UNIT DELINEATION DETAIL
C-5	DETAILS
S1.0	FOUNDATION AND SLAB DETAILS
S2.0	EXISTING CONDITIONS PHOTOS
S3.0	RETAINING WALL ELEVATION
SV-1	EXISTING CONDITIONS PLAT

OWNER: (WOODBURY/WASHINGTON STREET RIGHT-OF-WAYS)
CITY OF KEENE
C/O DON LUSSIER, PE, CITY ENGINEER
3 WASHINGTON STREET
KEENE, NEW HAMPSHIRE 03431
(603) 352-6550
ALUSSIER@KEENE

OWNER: (MAP 531 - LOT 54/438 WASHINGTON STREET)
COMMUNITY COLLEGE SYSTEM OF NEW HAMPSHIRE (CCSNH)
C/O MATTHEW MOORE, DIRECTOR OF PLANNING & DEVELOPMENT
26 COLLEGE DRIVE
CONCORD, NEW HAMPSHIRE 03301-7425
(603) 230-3565
MEMOORE@CCSNH.EDU

TURNER
GROUP

The H.L. Turner Group Inc.

27 Locke Rd.
Concord, New Hampshire 03301
t:603.228.1122
hltturner.com

ARCHITECTS • ENGINEERS • BUILDING SCIENTISTS

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PROJECT TITLE / ADDRESS:
**Community College
System of New Hampshire
Woodbury Street
Retaining Wall Repair
(RVC24-03)**
438 Washington Street
Keene, NH 03431

FOR BIDDING
03/15/2024

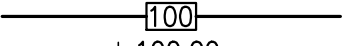
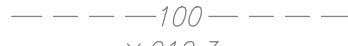
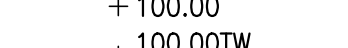
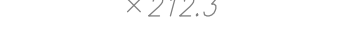
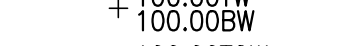



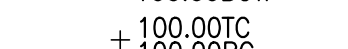

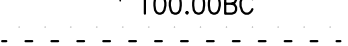

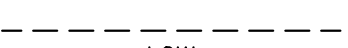







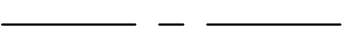

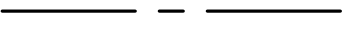
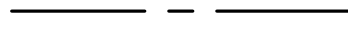
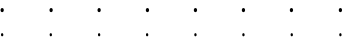

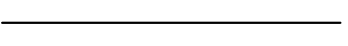

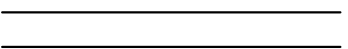

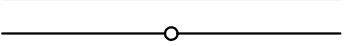

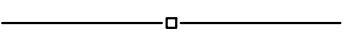

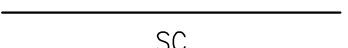

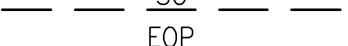

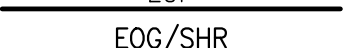

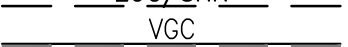





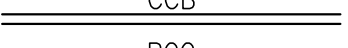

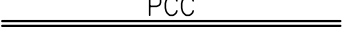



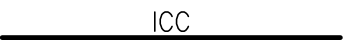



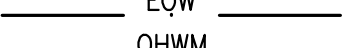

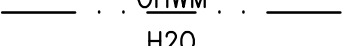

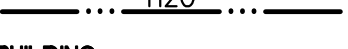









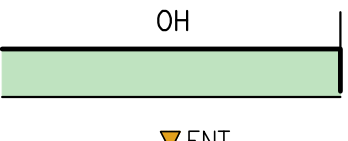
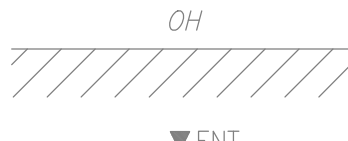






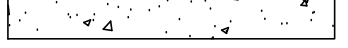


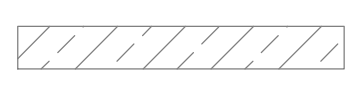
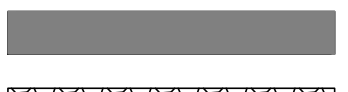



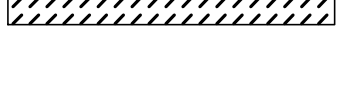
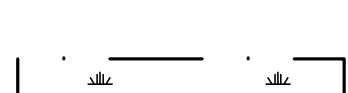

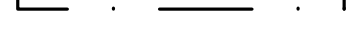
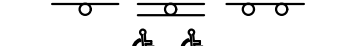





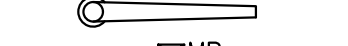



















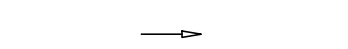





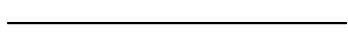

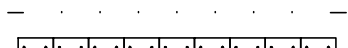

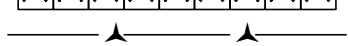

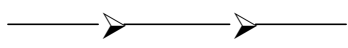









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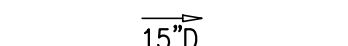

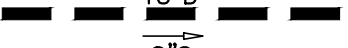
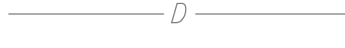
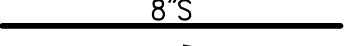

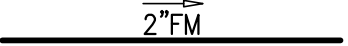

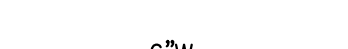

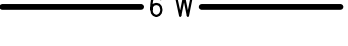

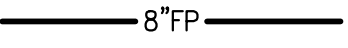





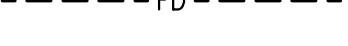

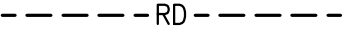

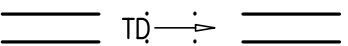

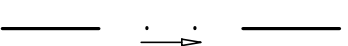

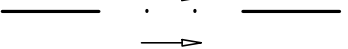

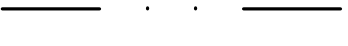

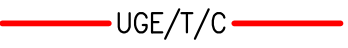



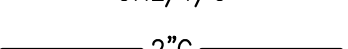

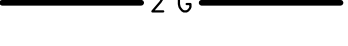
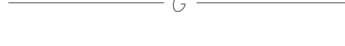
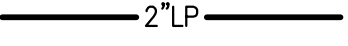









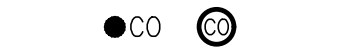





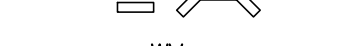





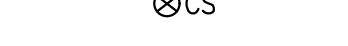




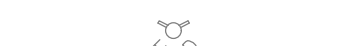








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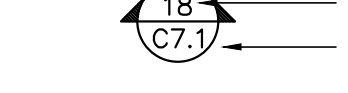

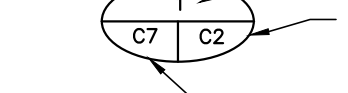

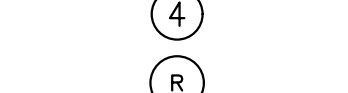







SHEET TITLE:
COVER SHEET

C0.1

LEGEND

ENGINEERING		
PROPOSED	EXISTING	DESCRIPTION
		CONTOUR INTERVALS
		SPOT ELEVATIONS
		GRADE ADJACENT TO TOP/BOTTOM OF WALL
		ELEVATION OF TOP/BOTTOM OF WALL
		GRADE ADJACENT TO TOP/BOTTOM OF CURB
		DAYLIGHT LINE CUT SECTION
		DAYLIGHT LINE FILL SECTION
		LIMITS OF WORK
BOUNDARIES		
PROPOSED	EXISTING	DESCRIPTION
		PROPERTY/RIGHT-OF-WAY LINE
		ZONING LINE
		APPROXIMATE ABUTTING LOT LINE
		EASEMENT LINE
		BUILDING/YARD SETBACK LINE
		TREE LINE
		STONE WALL
		WOOD POST GUARDRAIL
		STEEL POST GUARDRAIL
		FENCE~WIRE
		FENCE~CHAINLINK
		FENCE~STOCKADE
		FENCE~SPLIT RAIL
		PAVEMENT/SAWCUT LINE
		EDGE OF BITUMINOUS ASPHALT PAVEMENT
		EDGE OF GRAVEL SHOULDER/SLOPE BREAK
		CURB~VERTICAL/STRAIGHT GRANITE
		CURB~SLOPED GRANITE
		CURB~CAPE COD/ASPHALT BERM
		CURB~PRECAST CONCRETE
		CURB~EXTRUDED CONCRETE
		CURB~INTEGRALLY CIP CONCRETE
		SOILS BOUNDARY
		DELINEATED/JURISDICTIONAL WETLANDS
		DELINEATED ORDINARY HIGH WATER MARK
		SURFACE WATER
BUILDING		
PROPOSED	EXISTING	DESCRIPTION
		BUILDING
		BUILDING CANOPY OVERHANG
		ENTRANCE/EXIT
		OVERHEAD DOOR
		LOADING DOCK
GENERAL		
PROPOSED	EXISTING	DESCRIPTION
		PORTLAND CEMENT CONCRETE
		BITUMINOUS ASPHALT PAVEMENT NORMAL/LIGHT DUTY SECTION
		BITUMINOUS ASPHALT PAVEMENT HEAVY DUTY SECTION
		RIPRAP/STONE FILL
		PERMITTED WETLAND DISTURBANCE
		DELINEATED/JURISDICTIONAL WETLANDS
		REGULATORY TRAFFIC/DIRECTIONAL SIGNS
		ADA HANDICAP PAVEMENT MARKING
		TRAFFIC SIGNAL
		TRAFFIC SIGNAL MAST ARM
		ADA HANDICAP PAVEMENT MARKING
		BOLLARD
		TREES, SHRUBS, AND PLANTS
		GEOTECHNICAL BORING
		SOIL TEST PIT
		SOIL PERCOLATION TEST
		SOIL INFILTRATION TEST
		MONITORING WELL
		DELINEATED WETLAND FLAG
		DIRECTION OF PIPE/SWALE FLOW
		DIRECTION OF STREAM FLOW
EROSION CONTROL		
PROPOSED	EXISTING	DESCRIPTION
		SILT FENCE
		COMPOST SOCK
		DOUBLE PERIMETER CONTROL
		EROSION CONTROL MIX BERM
		HAYBALE BARRIER
		SILT CURTAIN
		DIVERSION SWALE/DYKE
		CHECK DAM
		INLET PROTECTION

UTILITIES		
PROPOSED	EXISTING	DESCRIPTION
		STORM SEWER/DRAINAGE PIPE
		SANITARY SEWER/SEPTIC PIPE
		SANITARY SEWER/SEPTIC FORCE MAIN
		POTABLE/DOMESTIC WATER PIPE
		FIRE PROTECTION WATER PIPE
		UNDERDRAIN
		FOUNDATION DRAIN
		ROOF DRAIN/DRIP EDGE
		FRENCH DRAIN/TRENCH DRAIN
		TRAPEZOIDAL SWALE/DITCH
		V SWALE/DITCH
		UNDERGROUND UTILITIES/CONDUITS
		OVERHEAD UTILITIES/WIRES
		NATURAL GAS PIPE
		LIQUID PROPANE PIPE
		STORM SEWER/DRAINAGE CATCH BASIN
		STORM SEWER/DRAINAGE MANHOLE
		SANITARY SEWER MANHOLE
		CLEAN OUT
		FLARED END SECTION
		HEADWALL
		WATER VALVE AND BOX
		CURB STOP AND BOX
		POST INDICATOR VALVE
		FIRE HYDRANT
		TAPPING SLEEVE
		WATER METER
		POTABLE WATER WELL
		GAS/LP GATE VALVE
		GAS/LP METER
		ELECTRIC/TELECOMMUNICATION MAN HOLE
		ELECTRIC TRANSFORMER
		ELECTRIC METER
		UTILITY POLE
		LIGHT POLE
		GUY WIRE
		HAND HOLE/PULL BOX

PLAN CALLOUTS	
PROPOSED	DESCRIPTION
	TYPICAL SECTION NUMBER
	SHEET LOCATION OF TYPICAL SECTION
	CROSS-SECTION NUMBER
	SHEET WHERE CROSS-SECTION IS SHOWN
	DETAIL NUMBER
	SHEET SERIES WHERE DETAIL IS SHOWN
	SHEET WHERE DETAIL IS SHOWN
	PARKING SPACE COUNT
	REMOVE
	ABANDON IN PLACE
	REMOVE AND RESET
	REMOVE AND SALVAGE TO OWNER
	PROTECT AND MAINTAIN
	REMOVE PAVEMENT

ABBREVIATIONS

GENERAL	
ABAN	Abandon
ACR	Accessible Curb Ramp
ADJ	Adjust
APPROX	Approximate
BC	Bottom Of Curb
BOS	Bottom Of Slope
CCB	Cape Cod Berm
ELEV	Elevation
EXIST	Existing
FDN	Foundation
MAX	Maximum
MIN	Minimum
NIC	Not In Contract
NTS	Not To Scale
PCC	Precast Concrete Curb
PROP	Proposed
PSI	Pounds Per Square Inch
RAP	Reclaimed Asphalt Pavement
R&R	Remove And Reset
R&S	Remove And Stack
REM	Remove
REMOD	Remodel
RET	Retain
SGC	Slope Granite Curb
SSWL	Single Solid White Line
TOS	Top Of Slope
TOW	Top Of Wall
TYP	Typical
U.N.O.	Unless Noted Otherwise
VGC	Vertical Granite Curb
LANDSCAPING	
B&B	Balled & Burlapped
BR	Bare Root
L&S	Loam And Seed
UTILITY	
ACCOMP	Asphalt Coated Corrugated Metal Pipe
AD	Acid Resistant
CAP	Corrugated Aluminum Pipe
CIP	Cast Iron Pipe
CIT	Change In Type
CMP	Corrugated Metal Pipe
COND	Conduit
DIP	Ductile Iron Pipe
F&C	Frame And Cover
F&G	Frame And Grate
HDPE	High Density Polyethylene Pipe
HYD	Hydrant
INV	Invert Elevation
PE	Polyethylene Pipe
PPC	Polypropylene Pipe
PPS	Prefabricated Pump Station
PVC	Polyvinylchloride Pipe
PWW	Paved Water Way
R	Rim
RCP	Reinforced Concrete Pipe
RGS	Rigid Galvanized Steel
T	Telephone/Telecommunication
TSV	Tapping Sleeve
UD	Underdrain
UP	Utility Pole
VCP	Vitrified Clay Pipe

TURNER GROUP

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System of New Hampshire
Woodbury Street
Retaining Wall Repair
(RVC24-03)**
438 Washington Street
Keene, NH 03431

FOR BIDDING
03/15/2024

PROJ. NO.:	5329	STAMP
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DRAWN BY:	MR	
CHKD BY:	DVB	
ISSUE DATE:	03-15-2024	

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1	03/26/2024	ADDENDUM No. 1
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SHEET TITLE:

LEGEND

C0.2

CO.3

CO.4

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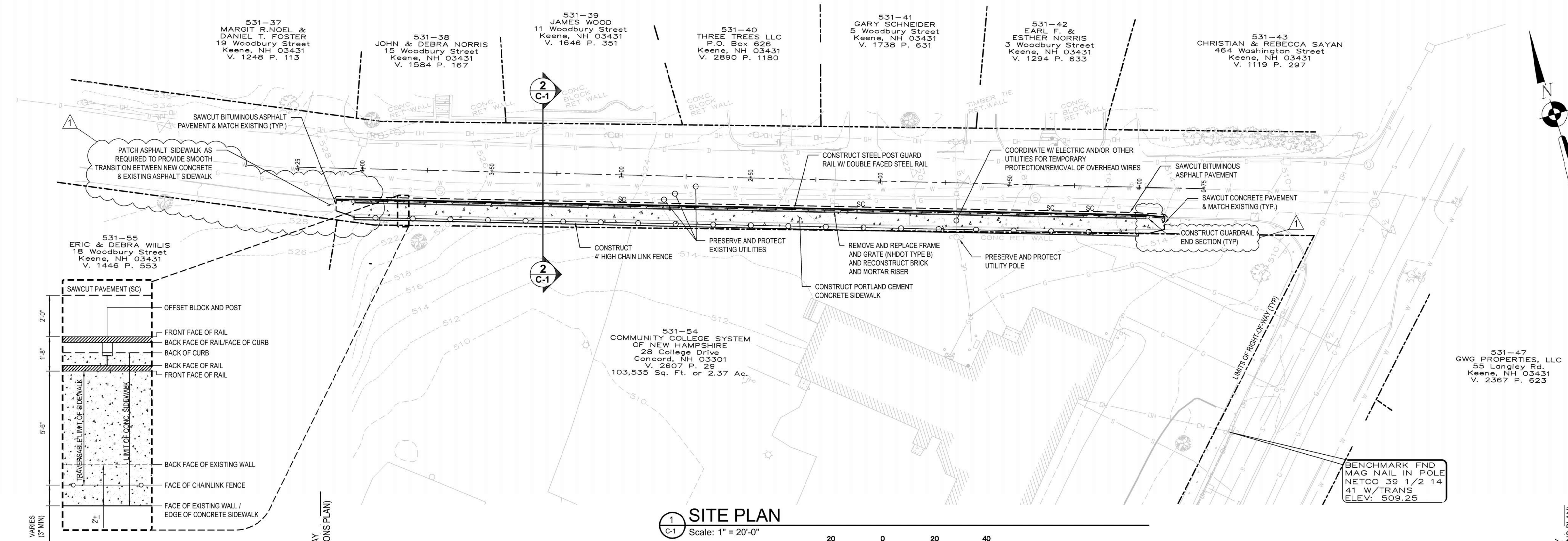
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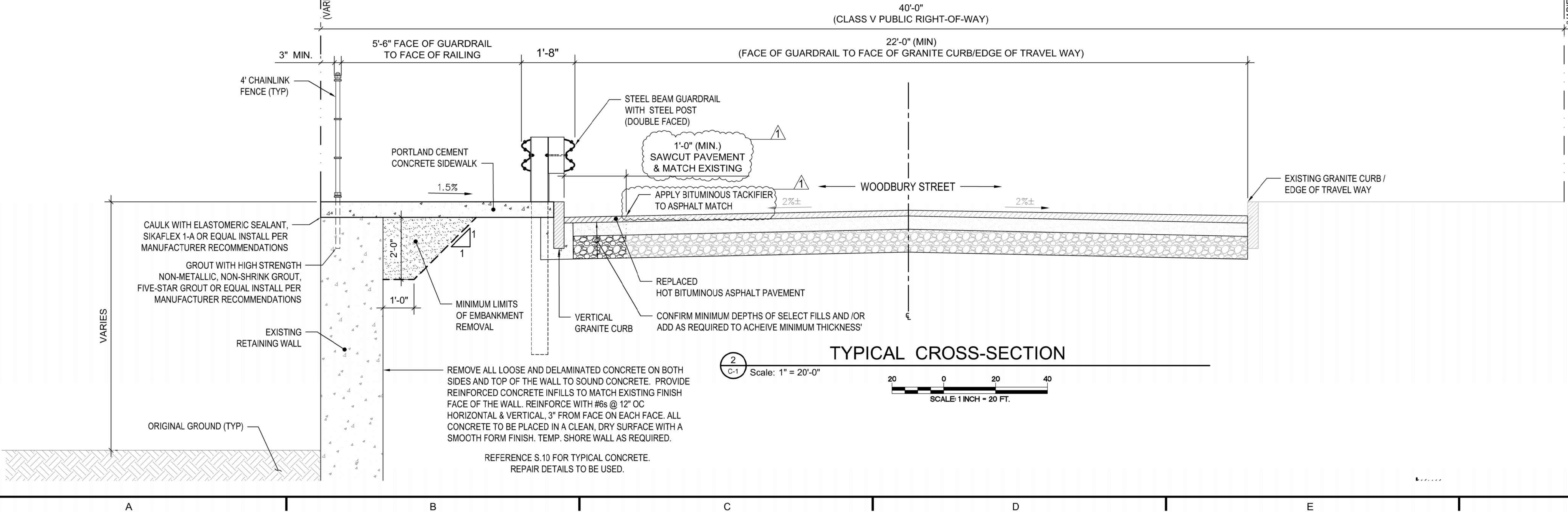
1	03/26/2024	ADDENDUM No. 1
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SHEET TITLE:
SITE PLAN

C-1



DETAIL PLAN VIEW
1" = 30'



TYPICAL CROSS-SECTION
Scale: 1" = 20'-0"

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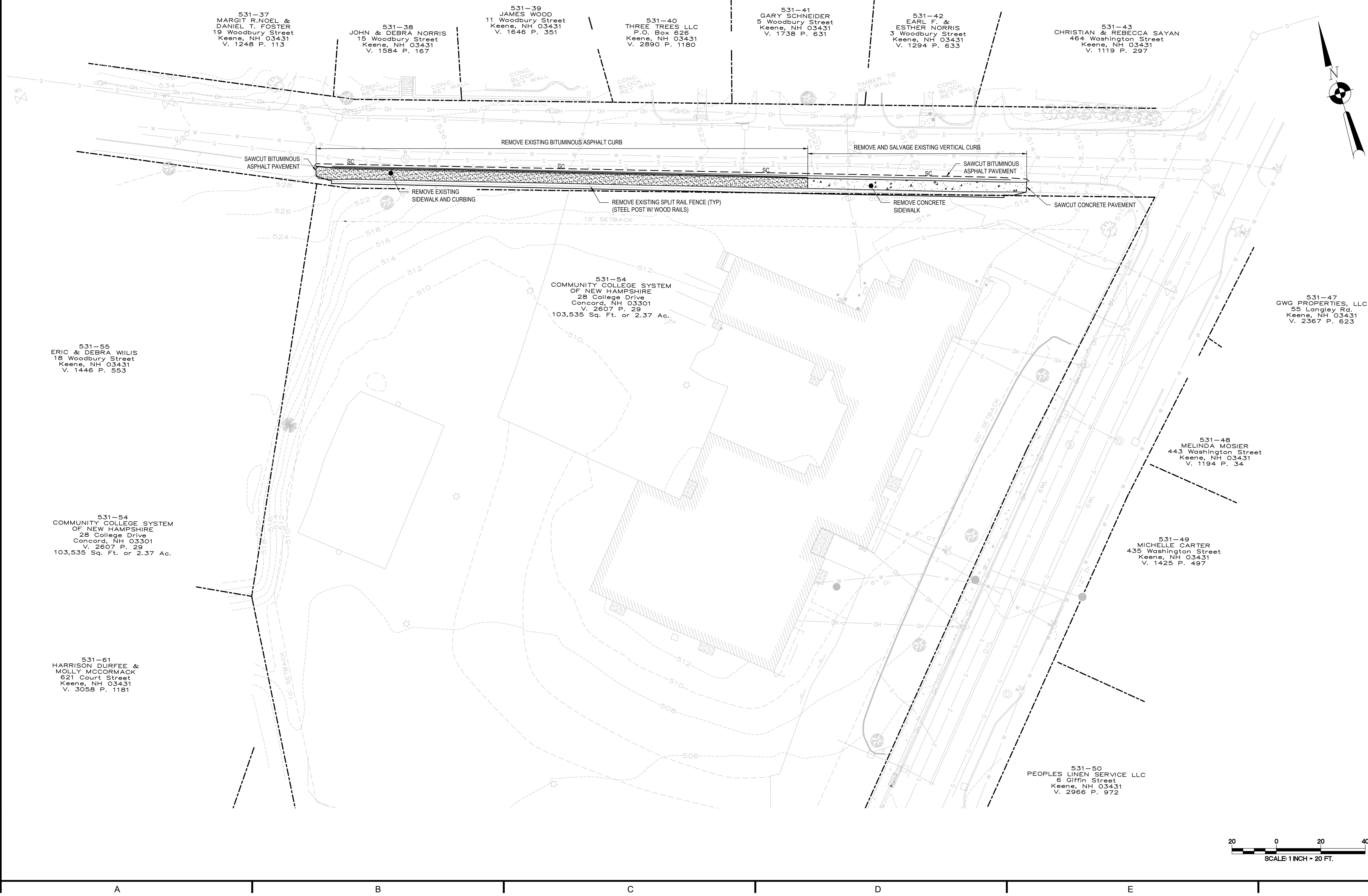
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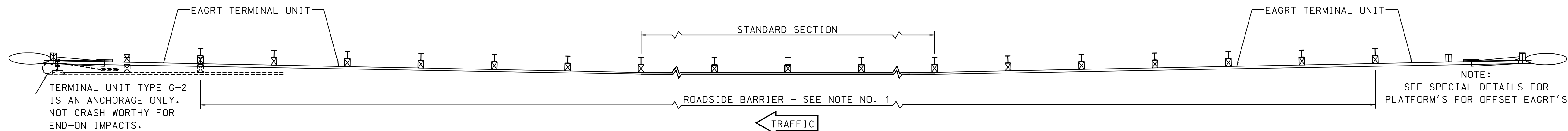
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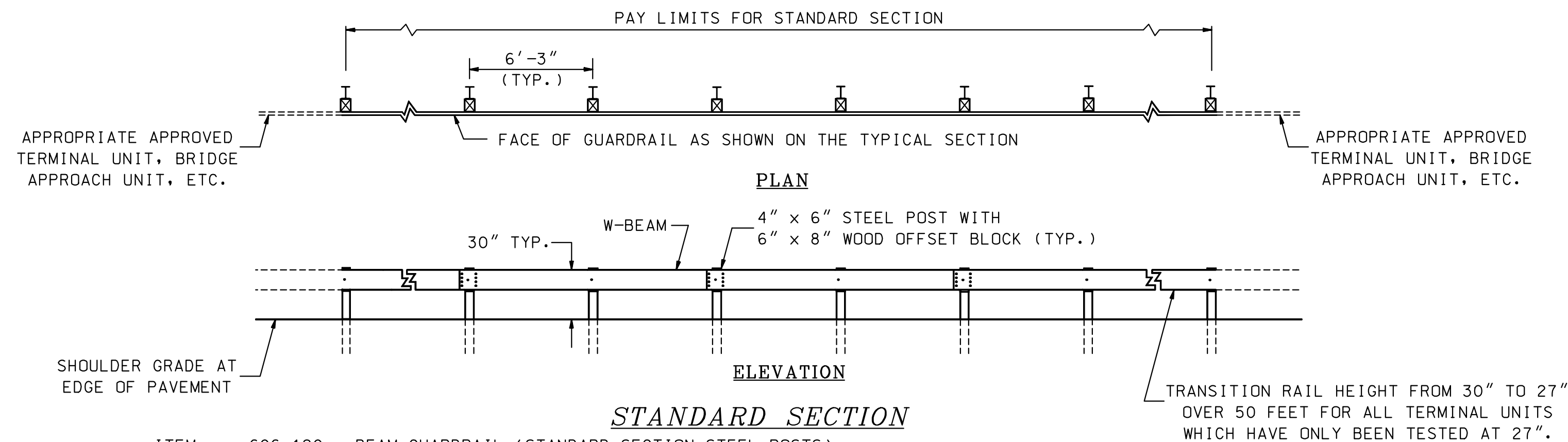
SHEET TITLE:
**SITE PREPARATION &
DEMOLITION PLAN**

C-2

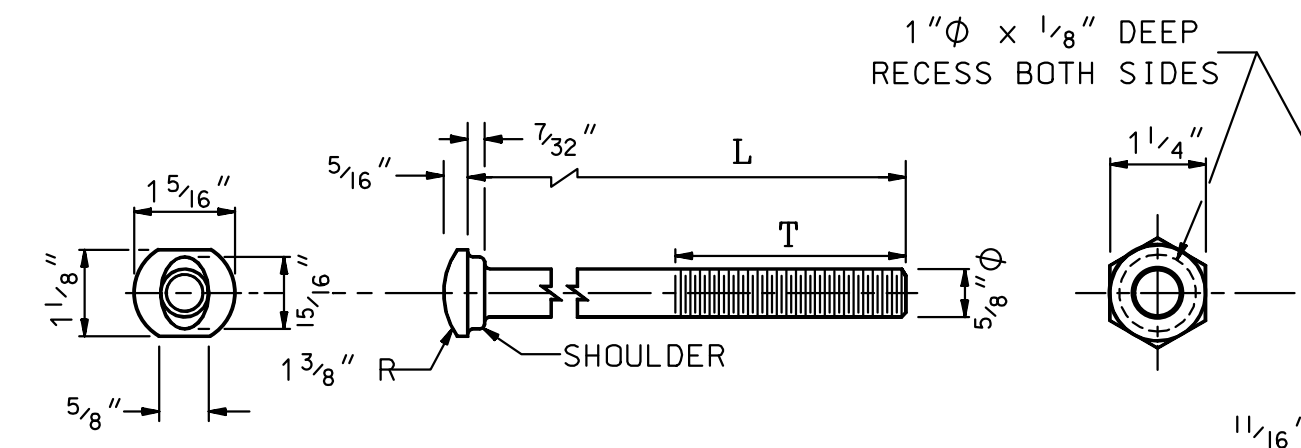
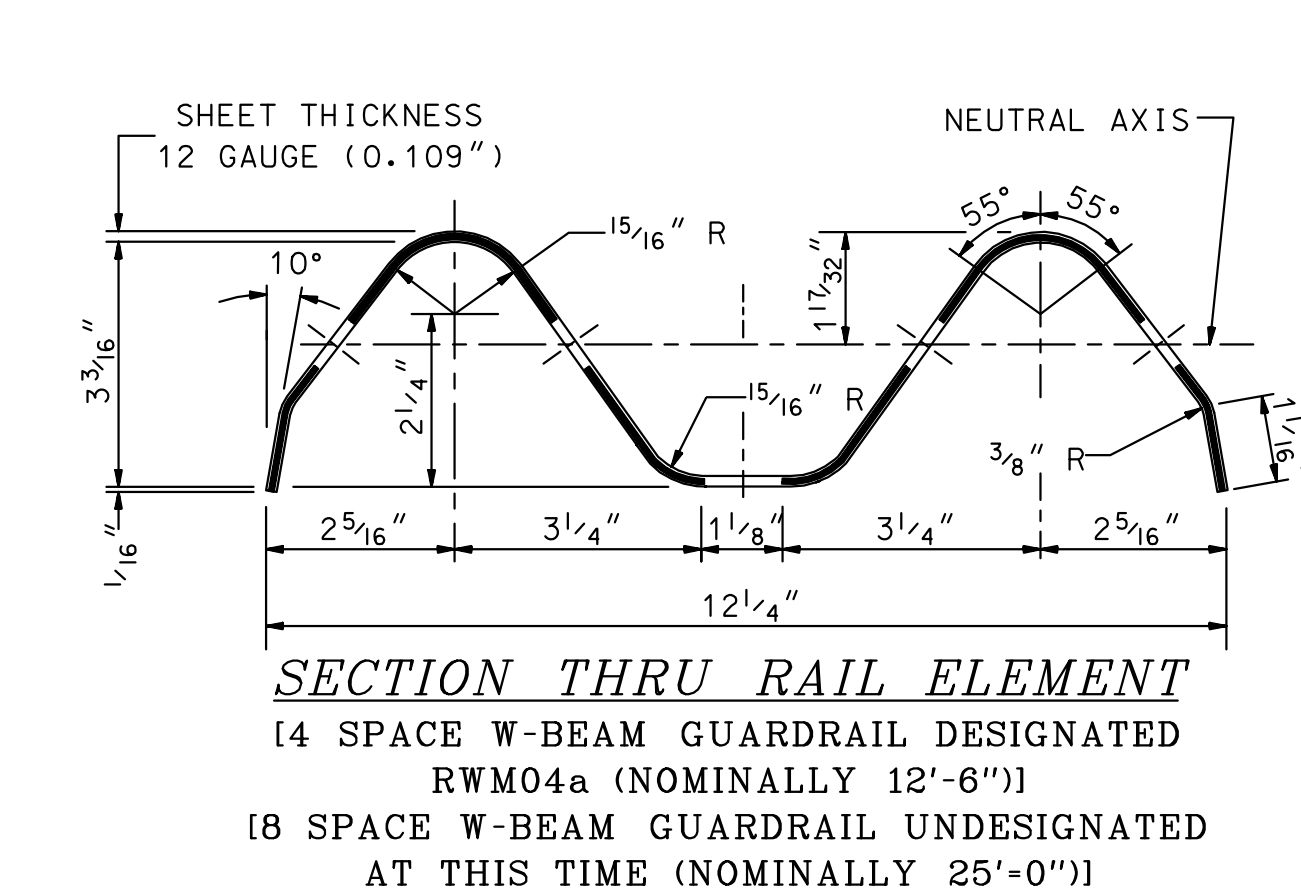




SAMPLE GUARDRAIL INSTALLATION LAYOUT

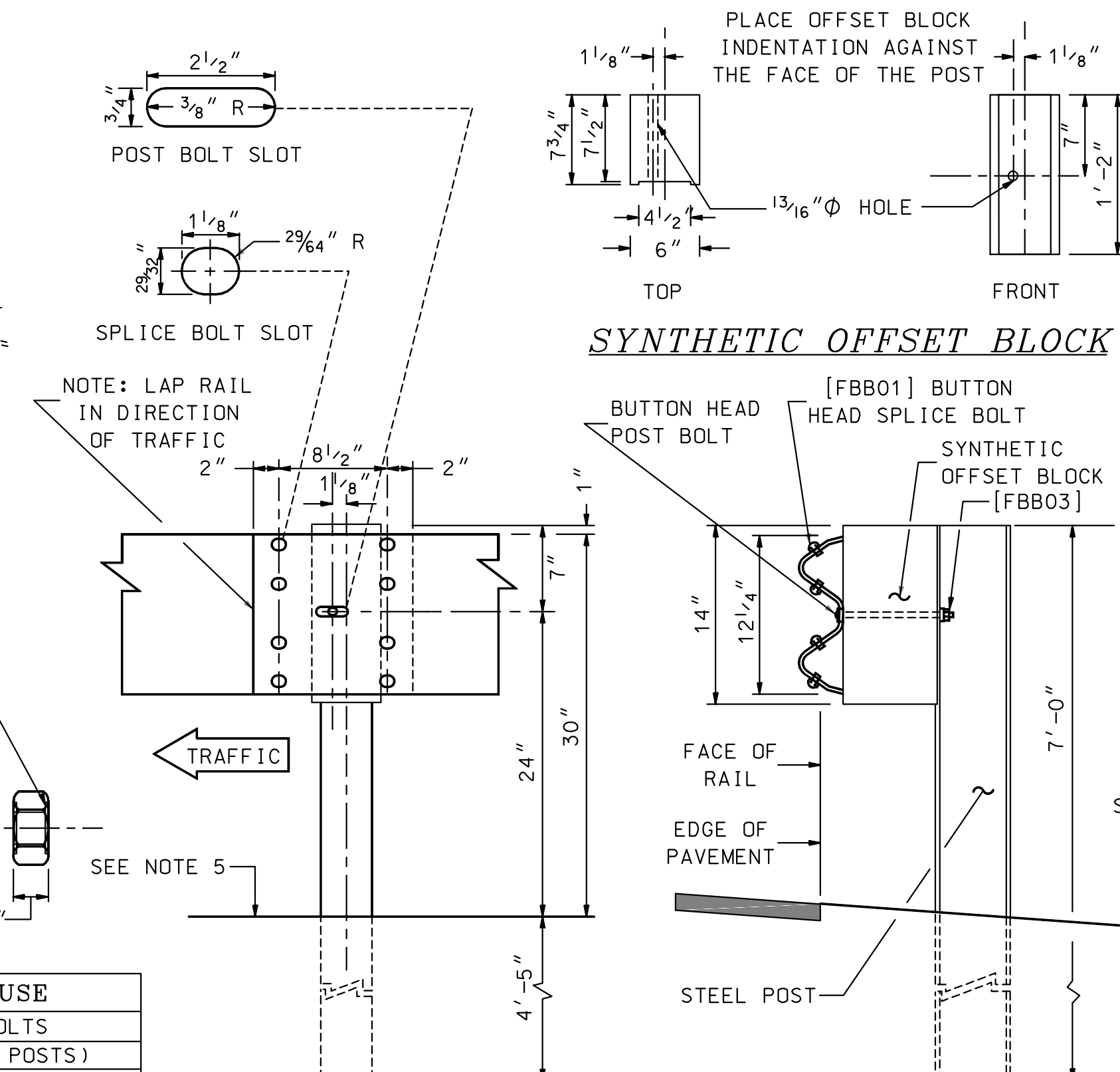


ITEM 606.120 - BEAM GUARDRAIL (STANDARD SECTION-STEEL POSTS)
PAID: LINEAR FOOT
USE: STRONG STEEL POST W-BEAM WITH SPLICE ON POST IS APPROPRIATE FOR REPAIRS OF EXISTING STRONG POST W-BEAM
SPLICE ON POST GUARDRAIL RUNS OF LIMITED LENGTH OR SPECIFIC LOCATIONS WHERE USE OF 31" MID-SPLICE STEEL POST W-BEAM GUARDRAIL WOULD NOT BE PRACTICAL. OTHERWISE, 31" MID-SPLICE STEEL POST W-BEAM GUARDRAIL IS TO BE USED

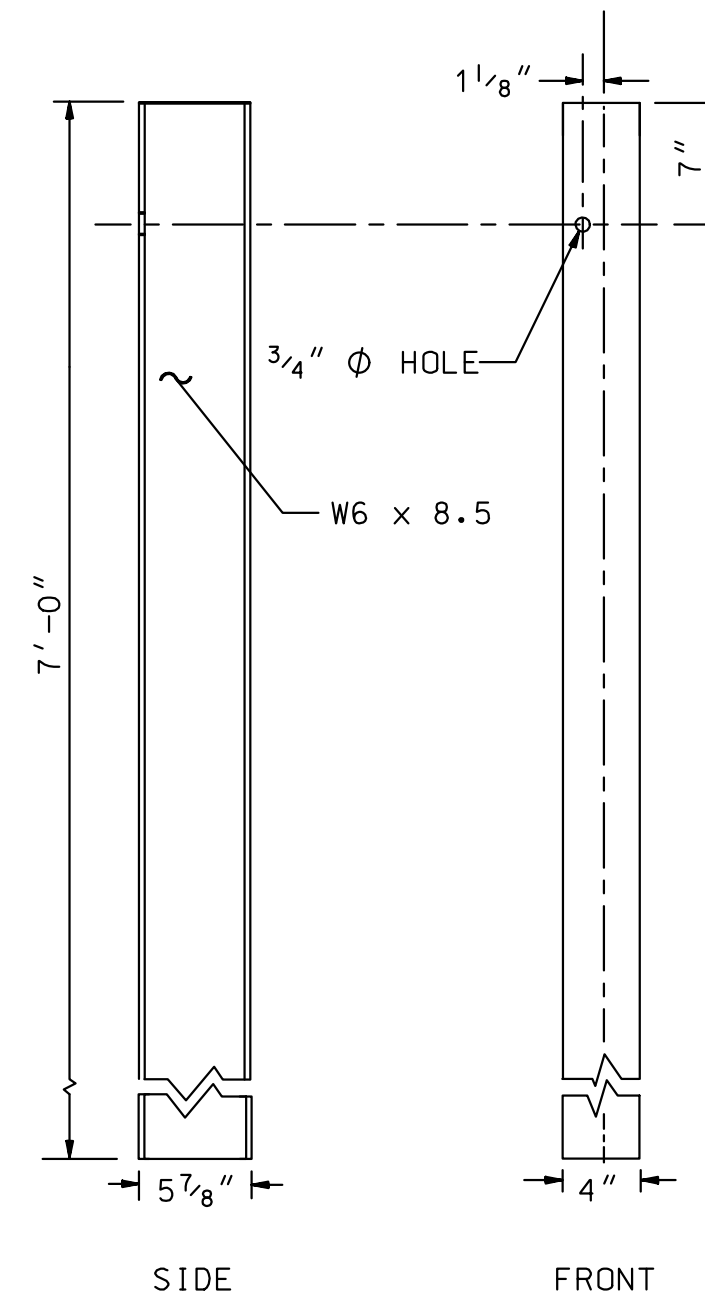


DESIGNATOR	L	T	INTENDED USE
FBB01	1 1/4"	FULL LENGTH THREAD	RAIL SPLICE BOLTS
FBB02	2"	1 3/4" MIN. THREAD LENGTH	POST BOLT (STEEL POSTS)
FBB03	9 1/2"	4" MIN. THREAD LENGTH	POST BOLT

5/8" BUTTON HEAD BOLT AND RECESSED NUT (FBB01-03)

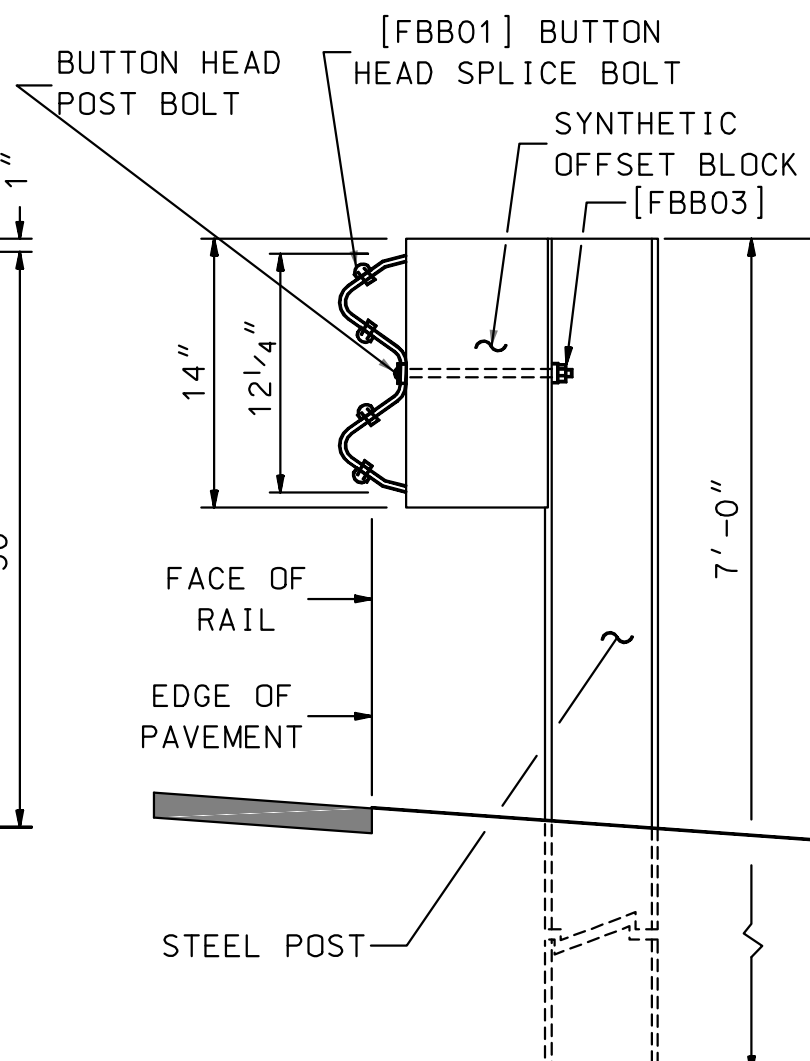


LINE POST ELEVATION VIEW AT BEAM SPLICE



STRUCTURAL SHAPE STEEL POST

SYNTHETIC OFFSET BLOCK

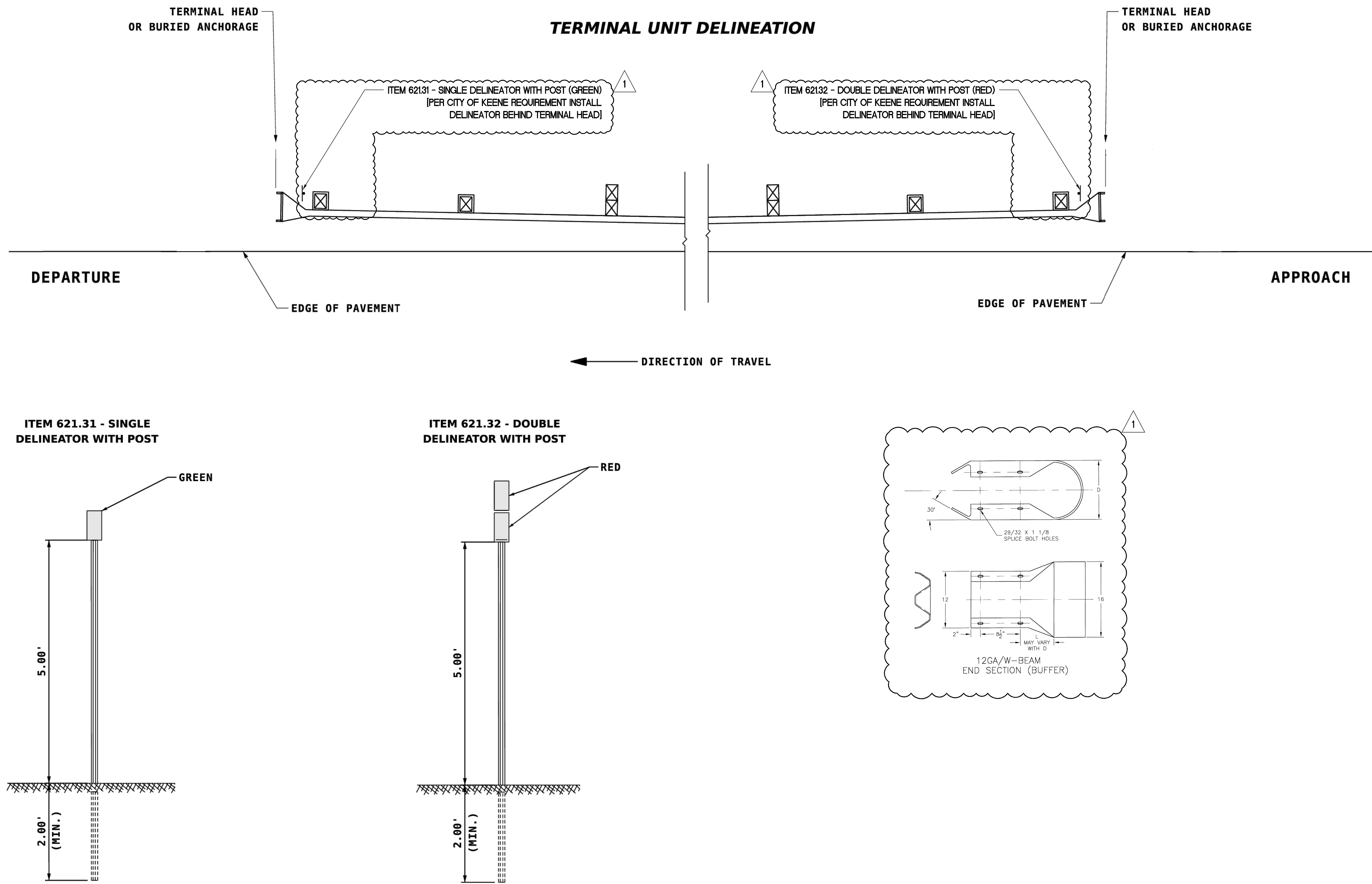


CLARIFICATION DETAIL FOR GENERAL NOTE 6

- GENERAL NOTES**
- THE DEFINITION OF ROADSIDE BARRIER IS PER THE LATEST ADOPTED EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE. EXCLUDED FROM THIS IS THE GATING PORTION OF A GUARDRAIL TERMINAL UNIT OR CRASH CUSHION AS WELL AS THE ENTIRE G-2 TERMINAL UNIT.
 - ITEMS IN BRACKETS [] ARE *STANDARD ELEMENTS* DESCRIBED IN AASHTO'S "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE".
 - ONLY USE RECTANGULAR PLATE WASHERS [FWR03] WHERE SHOWN ON THE OTHER STANDARD SHEETS OR AS REQUIRED BY THE MANUFACTURERS FOR THEIR PROPRIETARY PRODUCTS.
 - USE 12'-6" LENGTH RAIL ELEMENTS IN RAIL CURVES OF LESS THAN 100' RADIUS.
 - ESTABLISH RAIL HEIGHT AS FOLLOWS:
A) SET THE HEIGHT OF RAIL FROM THE EDGE OF THE PAVEMENT (EP) WHEN THE FACE OF RAIL IS AT THE EDGE OF PAVEMENT.
B) SET THE HEIGHT OF RAIL FROM THE GROUND AT THE FACE OF RAIL WHEN:
1) THE FACE OF RAIL IS OFFSET FROM THE EP AND THE CROSS SLOPE FROM THE EP TO THE FACE OF RAIL IS 10:1 OR FLATTER OR
2) THE FACE OF RAIL IS AT THE BACK OF A CURBED SIDEWALK AND THE CURB IS AT THE EDGE OF PAVEMENT
C) WHEN SITUATIONS OTHER THAN THOSE DESCRIBED IN A OR B ABOVE ARE ENCOUNTERED, ESTABLISH RAIL HEIGHT THROUGH AN ENGINEERING REVIEW TO ENSURE APPROPRIATE SYSTEM PERFORMANCE.
 - USE OF POSTS SHORTER THAN 7', BUT NOT LESS THAN 6'-0" LONG, IS ONLY ALLOWED UNDER THE FOLLOWING CONDITIONS:
A) WHERE THERE IS A MINIMUM DISTANCE OF 1' FROM THE BACK OF THE GUARDRAIL POST ALONG A 10:1 OR FLATTER SLOPE TO THE SLOPE BREAK OF A 4:1 OR FLATTER SLOPE OR
B) WHERE THERE IS A MINIMUM DISTANCE OF 2' FROM THE BACK OF THE GUARDRAIL POST ALONG A 10:1 OR FLATTER SLOPE TO THE SLOPE BREAK OF A STEEPER THAN 4:1 STABLE SOIL OR STONE LINED SLOPE. THE TERM STABLE INCLUDES NOT SHOWING SIGNS OF SLOPE MOVEMENT (SUCH AS DEPRESSIONS, CRACKS PARALLEL TO THE ROADWAY, ETC.) OR ACTIVE EROSION.
 - THE FHWA HAS LISTED OFFSET BLOCKS ON THEIR WEBSITE THAT ARE ELIGIBLE FOR FEDERAL PARTICIPATION PER NCHRP 350 TEST LEVEL 3 CRITERIA. OTHERS MAY BE ADDED UNDER MASH AT TEST LEVEL 3 OR HIGHER IN THE FUTURE. SOME OF THESE OFFSET BLOCKS HAVE OR MAY HAVE DIMENSIONS THAT VARY MORE THAN WOULD BE CONSIDERED WITHIN THE NORMAL CONTEXT OF NOMINAL DIMENSIONS. IN ORDER TO USE ANY OFFSET BLOCKS THAT HAVE OTHER THAN THE NOMINAL DIMENSIONS AS SHOWN ON THE PLANS, THE FOLLOWING APPLIES:
A) THE FACE OF RAIL SHALL REMAIN AT THE EDGE OF PAVEMENT OR AT THE INDICATED LOCATION AS SHOWN ON THE PLANS, AND
B) THE DISTANCE FROM THE BACK OF THE POST TO THE BREAK IN THE SLOPE SHALL NOT BE LESS THAN WHAT IS SHOWN ON THE PLANS BUT IT MAY BE MORE.
C) ALL OTHER REQUIREMENTS OF THE PERTINENT SPECIFICATIONS AND DETAILS REMAIN IN FORCE.

GUARDRAIL STANDARD
BEAM GUARDRAIL
STANDARD SECTION-STEEL POSTS
& HARDWARE DETAILS

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**Community College
System of New Hampshire
Woodbury Street
Retaining Wall Repair
(RVC24-03)**
438 Washington Street
Keene, NH 03431

FOR BIDDING
03/15/2024

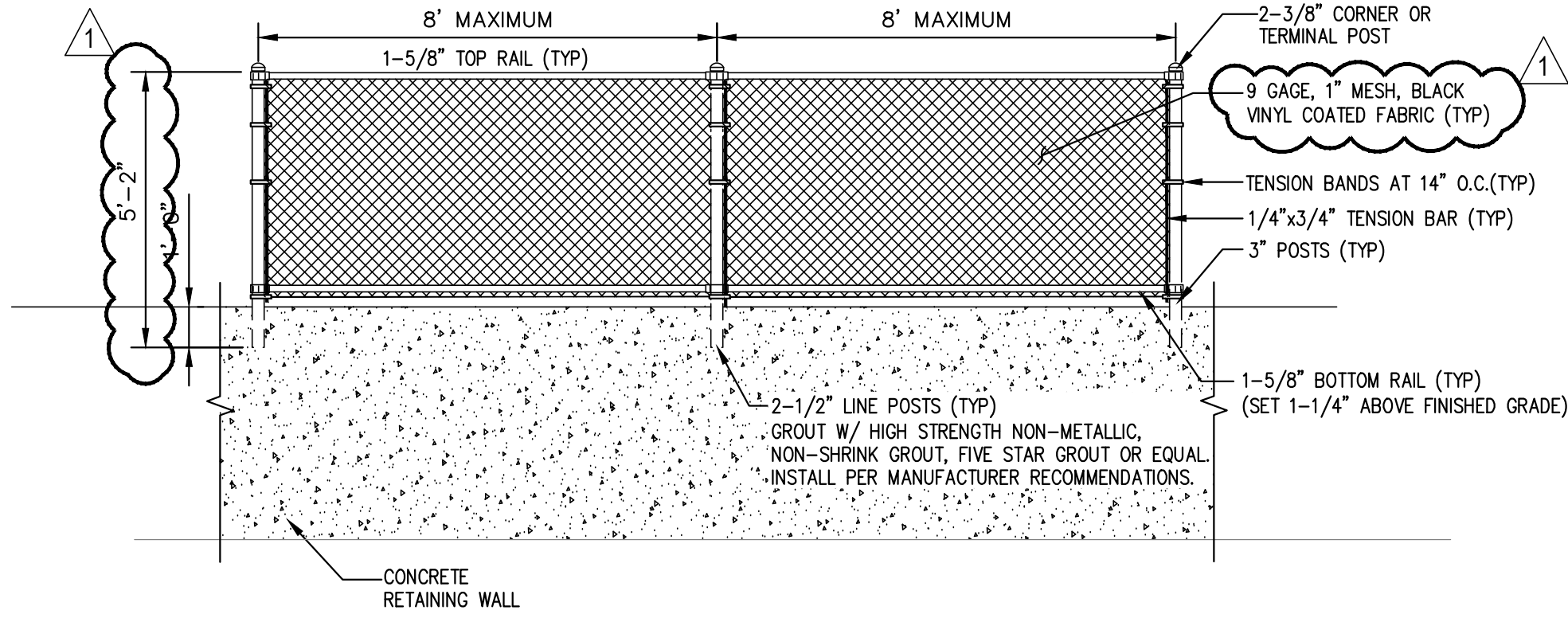
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DESN. BY:	DVB/PAW	
DRAWN BY:	MR	
CHKD BY:	DVB	
ISSUE DATE:	03-15-2024	

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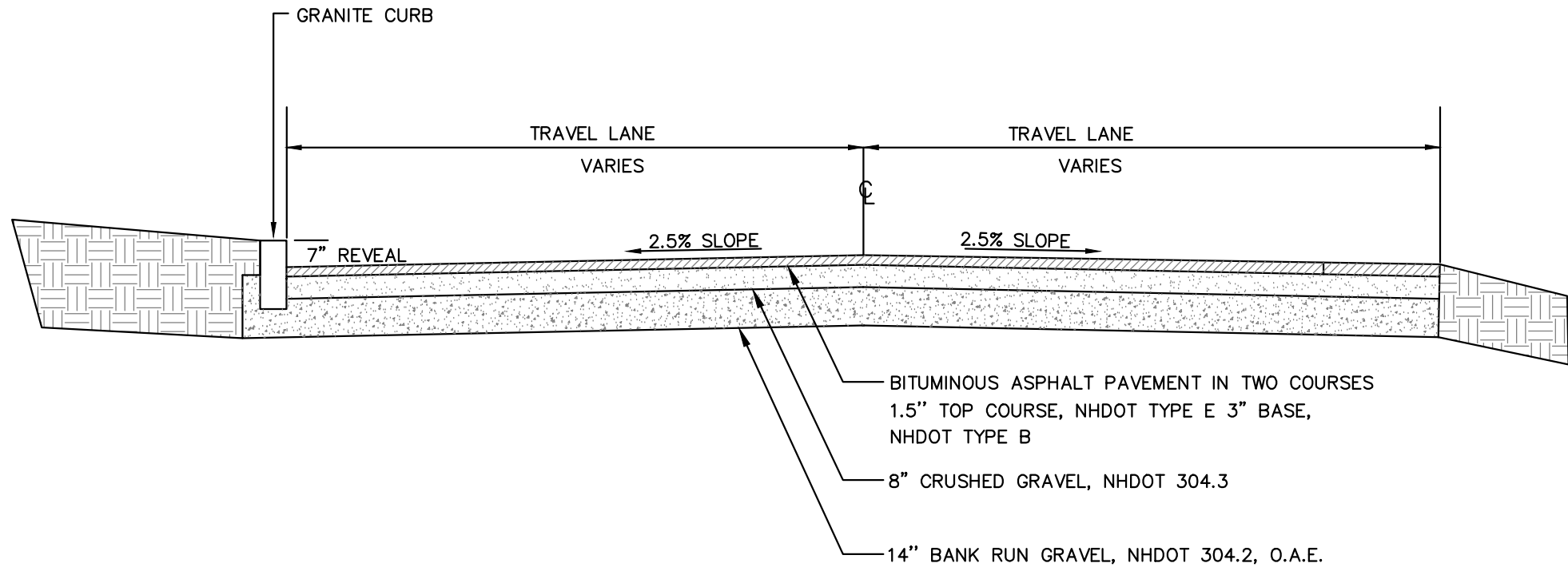
SHEET TITLE:
**TERMINAL UNIT
DELINEATION AND
GUARDRAIL END SECTION**

C-4

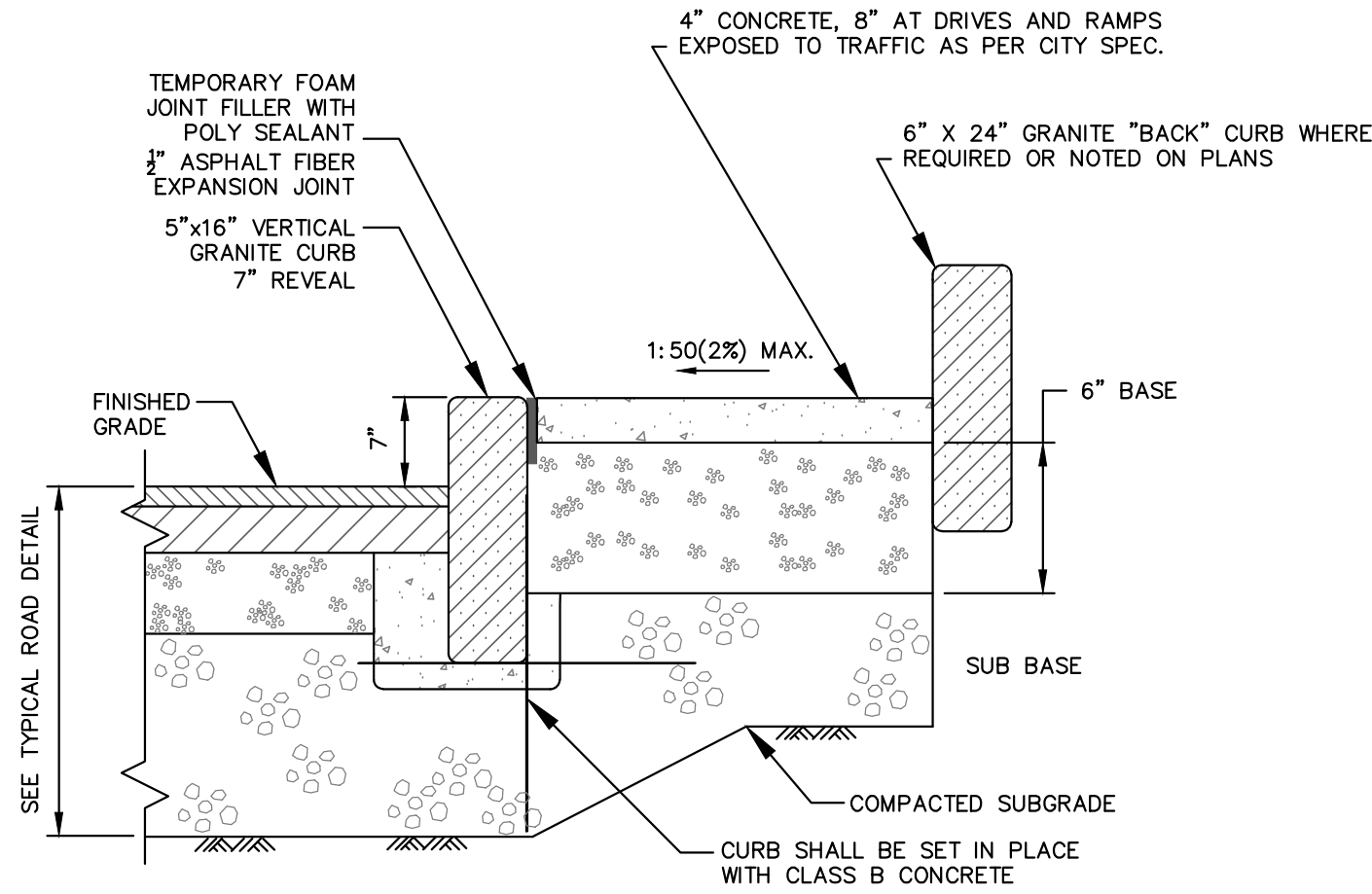
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1 CHAINLINK FENCE DETAIL
C-1 Scale: NTS



2 TYP. ROAD SECTION BOXED OUT AREA DETAIL
C-1 Scale: NTS

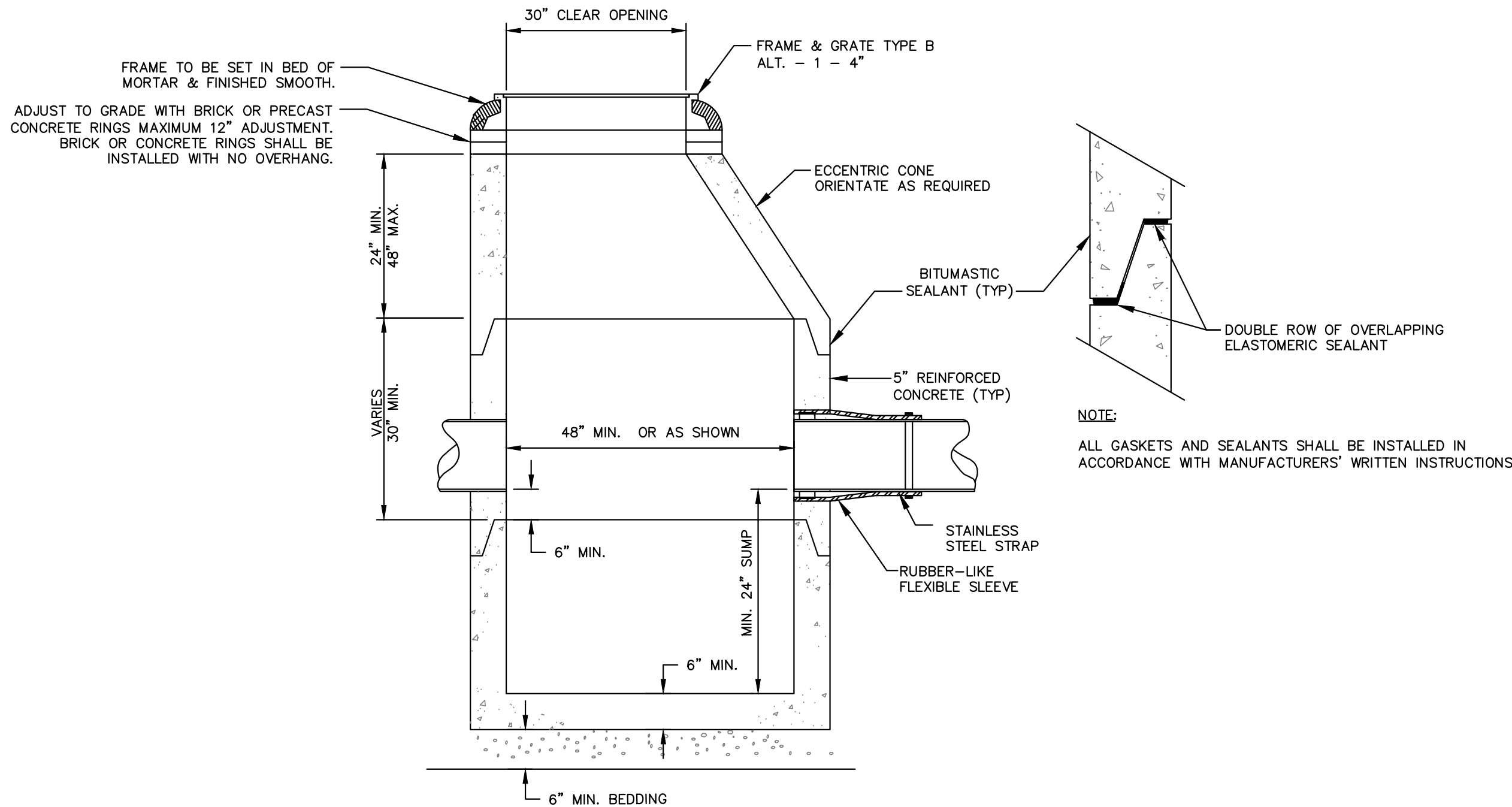


ALL SIDEWALKS SHALL COMPLY WITH KEENE SIDEWALK CONSTRUCTION SPECIFICATIONS.

SIDEWALK NOTES:

1. CONCRETE SIDEWALKS SHALL BE A MINIMUM OF 5 FEET WIDE, 6 FEET WIDE IN COMMERCIAL AREAS
2. CONCRETE SIDEWALKS SHALL BE A MINIMUM OF 4" THICK. 8" THICK WHERE EXPOSED TO TRAFFIC
3. SUB BASE SHALL BE A MINIMUM THICKNESS OF 12" OF CLEAN GRANULAR MATERIAL OR SUITABLE NATIVE/EXISTING MATERIAL COMPACTED TO 95%.
4. BASE SHALL BE A MINIMUM THICKNESS OF 6" OF CRUSHED GRAVEL COMPACTED TO 95%.
5. SIDEWALKS SHALL BE GRADED TO DRAIN, CROSS SLOPE NOT TO EXCEED 2%
6. MAXIMUM LONGITUDINAL GRADE SHALL BE 8.3%
7. MINIMUM LONGITUDINAL GRADE SHALL BE 0.5%
8. CONCRETE SHALL BE 4000 PSI CLASS AA CONCRETE WITH 1.5 LBS OF SYNTHETIC FIBER REINFORCEMENT PER CUBIC YARD.
9. CONCRETE SHALL HAVE 5-9% AIR ENTRAINMENT.
10. SLUMP SHALL BE BETWEEN 3" AND 5".
11. 4 TEST CYLINDERS PER LOAD OF CONCRETE, BY CERTIFIED CONCRETE TESTER.
12. MAXIMUM SPACING OF EXPANSION JOINTS SHALL BE 30 FEET, AT CURB RAMPS, AND EXTEND FULL WIDTH OF SIDEWALK.
13. CONTROL JOINTS SHALL BE A UNIFORM DISTANCE APART, TYPICALLY SPACED FIVE FEET, AND 3/4" DEEP.
15. ALL EDGES AND JOINTS SHALL BE FINISHED WITH A HAND EDGING TOOL.
16. THE SURFACE OF THE SIDEWALK SHALL BE MAG-FLOATED AND TROWELED, AND GIVEN A FINE GRAINED BROOM FINISH.
17. AS SOON AS THE CONCRETE HAS ATTAINED ITS INITIAL SET, IT SHALL BE COVERED WITH PLASTIC, BURLAP, OR OTHER APPROVED MATERIAL AND KEPT MOIST FOR A MINIMUM OF 7 DAYS TO CURE, AND SHALL NOT BE ALLOWED TO FREEZE. NO TRAFFIC SHALL BE ALLOWED ON THE SIDEWALK DURING THE CURING PERIOD.
18. CONCRETE SHALL BE SEALED WITH THE FOLLOWING METHOD, OR AS APPROVED BY THE ENGINEER:
A. WATER REPELLANT TREATMENT OF SILANE-SILOXANE APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3 SIDEWALK DETAIL
C-1 Scale: NTS



4 DRAIN STRUCTURE DETAIL
C-1 Scale: NTS

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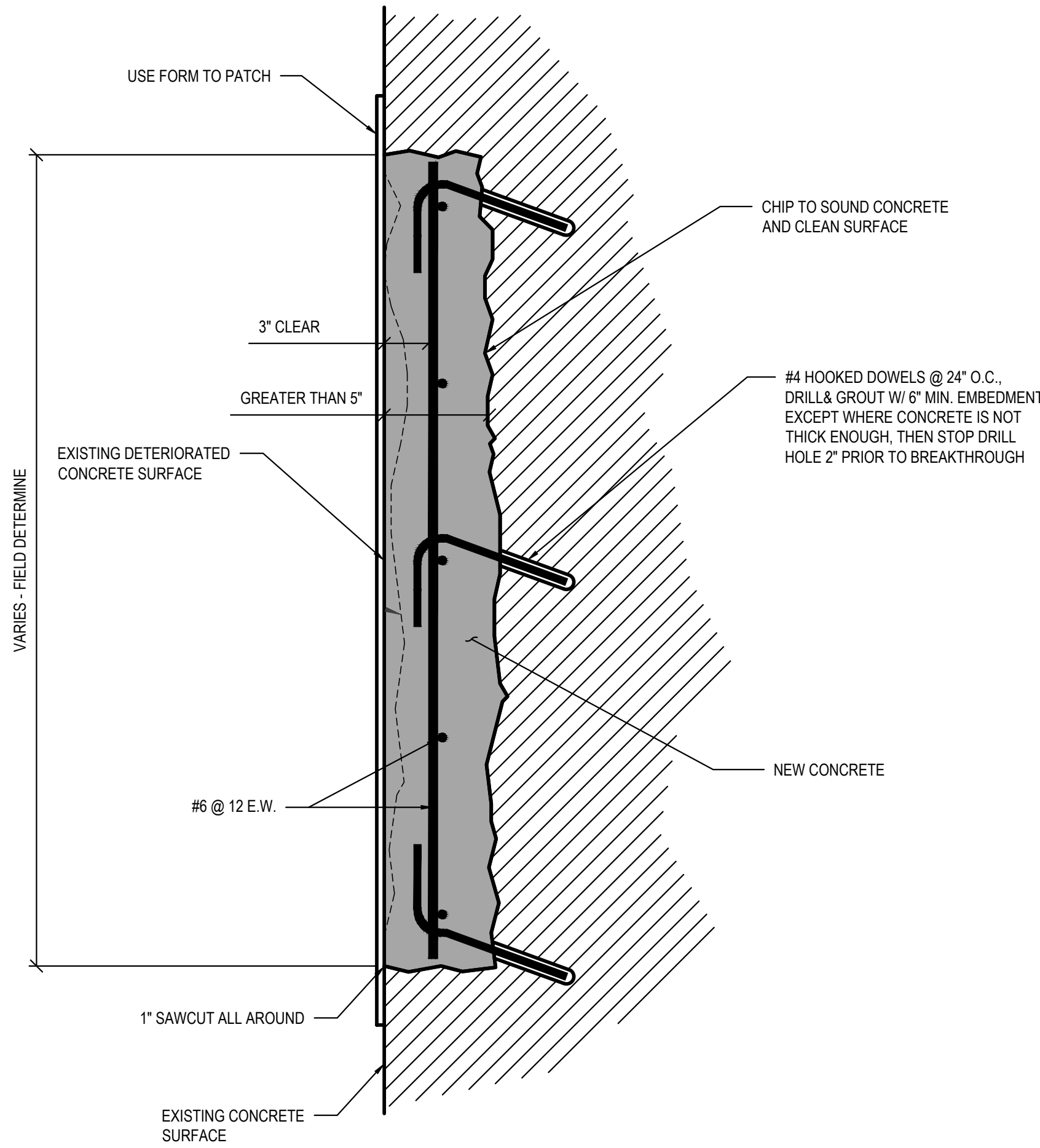
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SHEET TITLE:
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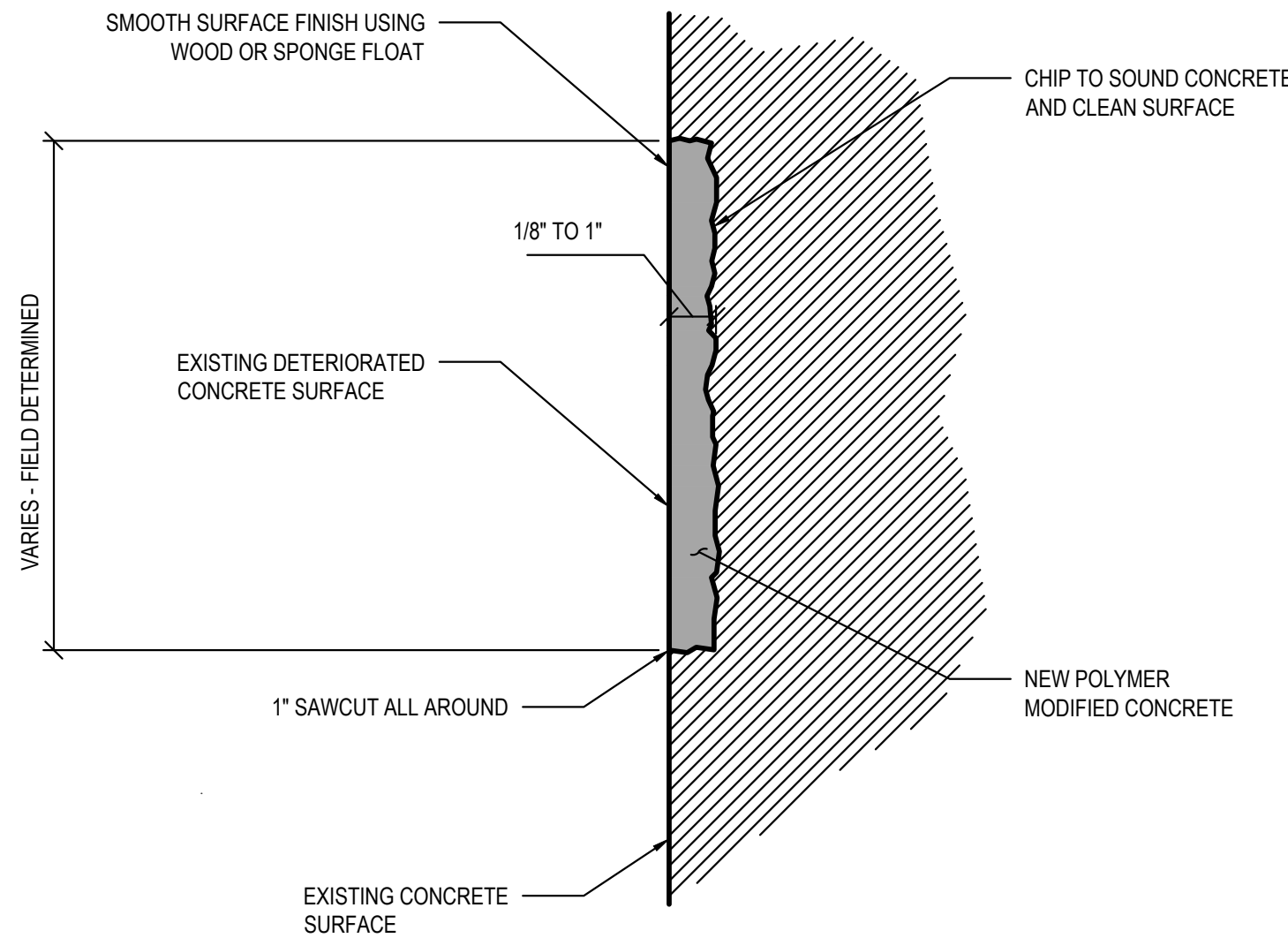
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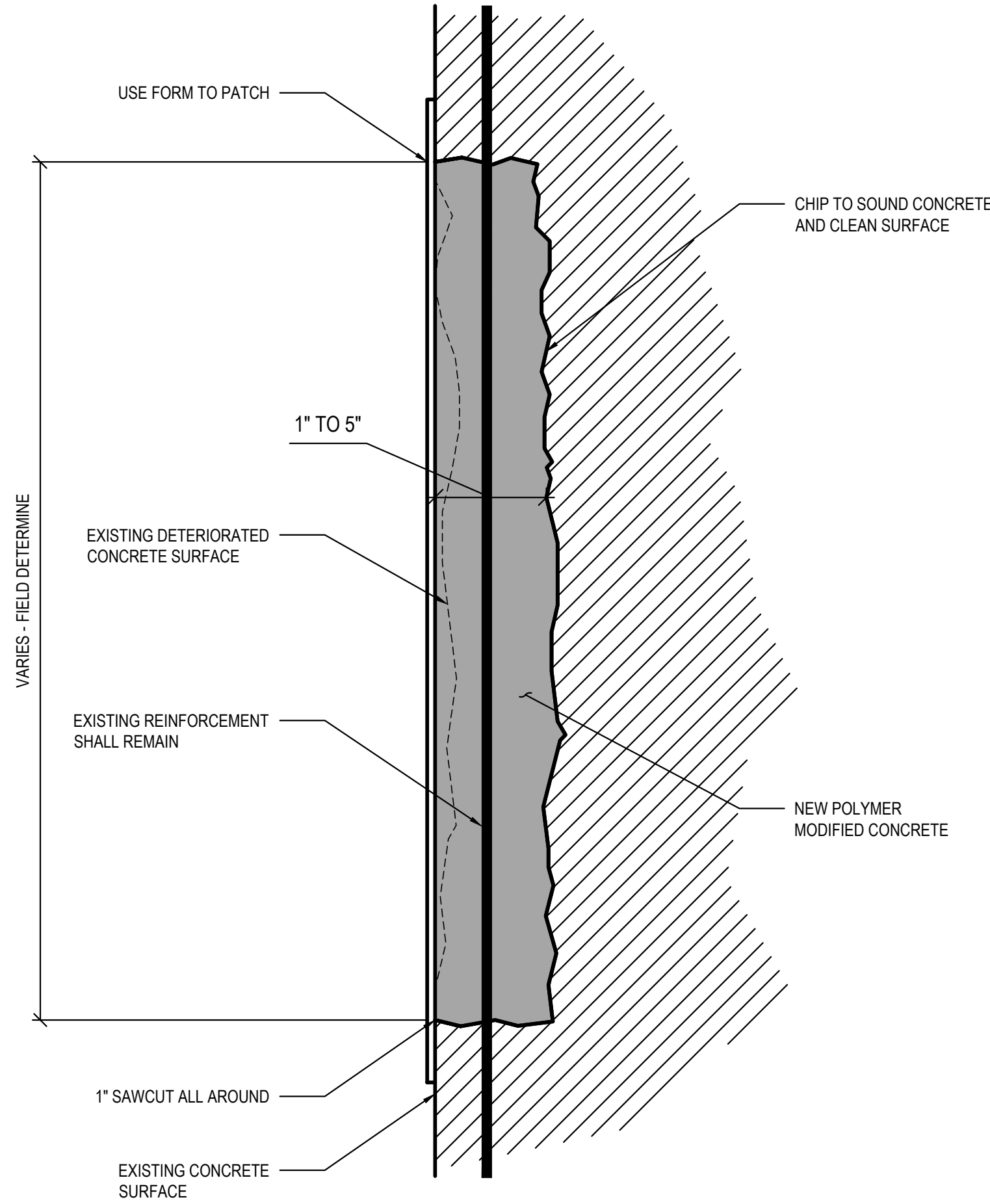
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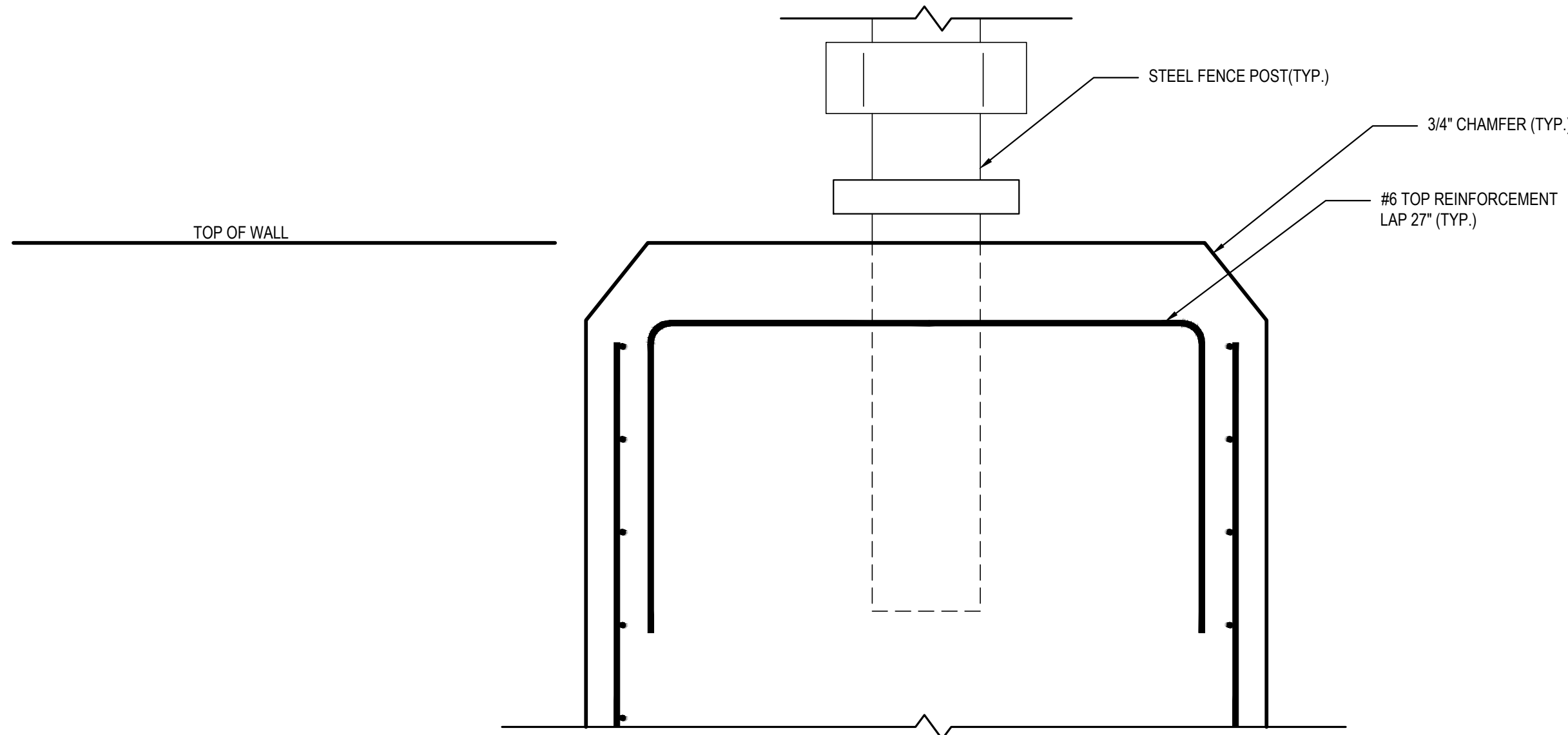
1 CONCRETE REPAIR DETAIL 5" - 12" DEEP
S3.1 Scale: 1-1/2" = 1'-0"



3 CONCRETE RESTORATION DETAIL 1/8" - 1" DEEP
S3.1 Scale: 1-1/2" = 1'-0"



2 CONCRETE REPAIR DETAIL 1" - 5" DEEP
S3.1 Scale: 1-1/2" = 1'-0"



4 TYPICAL RETAINING WALL CAP REPAIR
S3.1 Scale: 1-1/2" = 1'-0"

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SHEET TITLE:
**FOUNDATION AND SLAB
DETAILS**

S1.0

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PHOTO 1

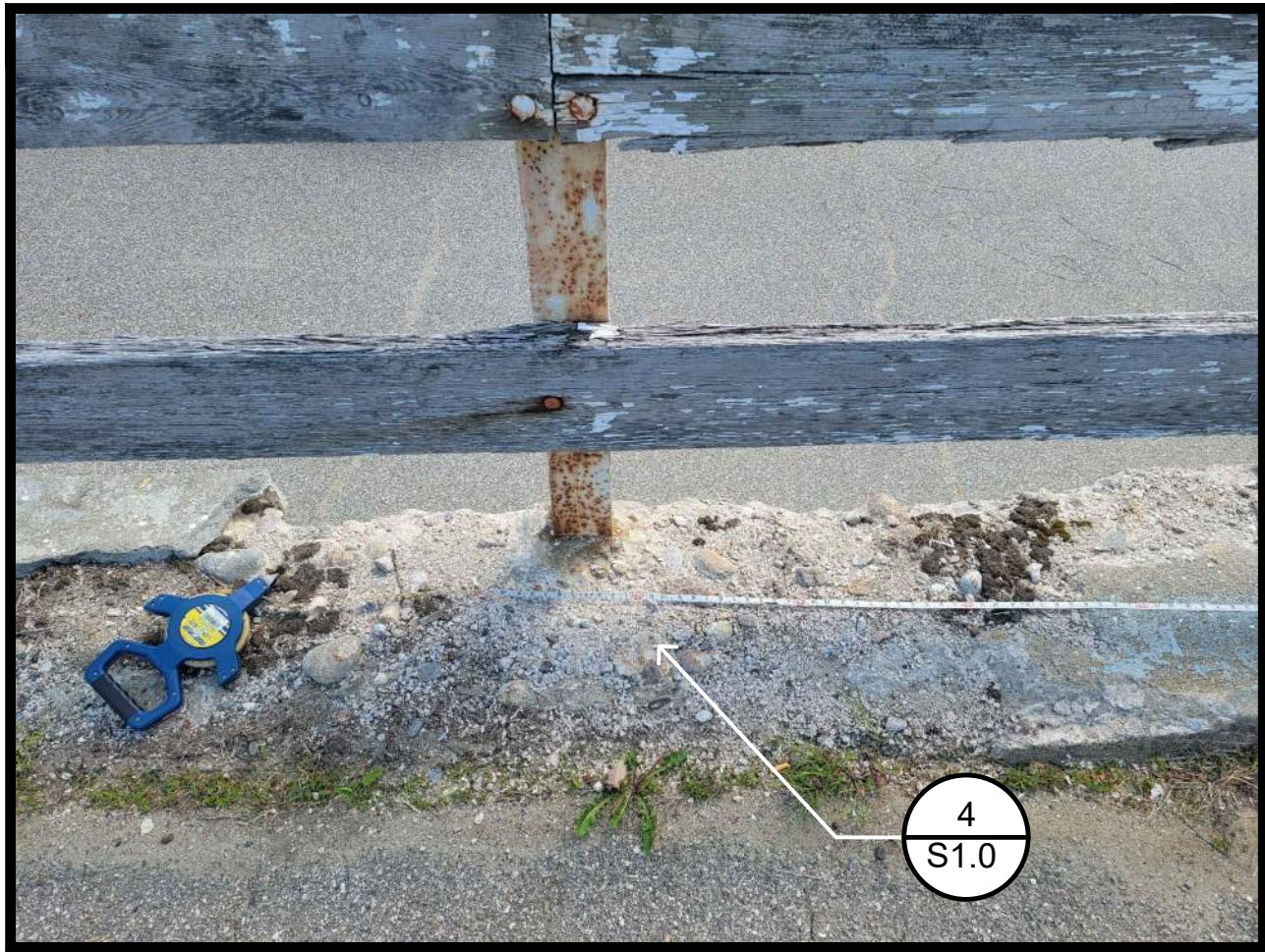


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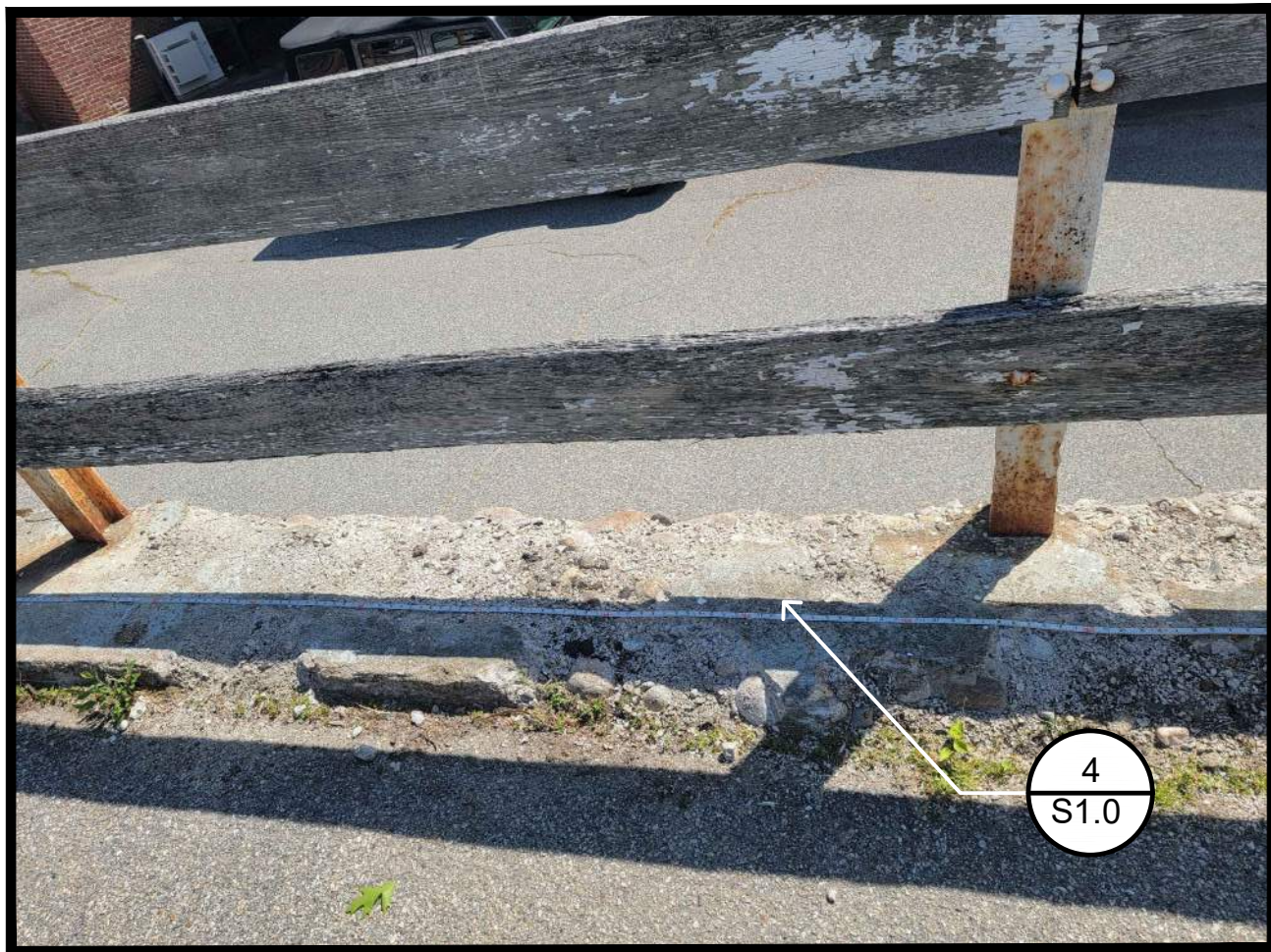


PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6

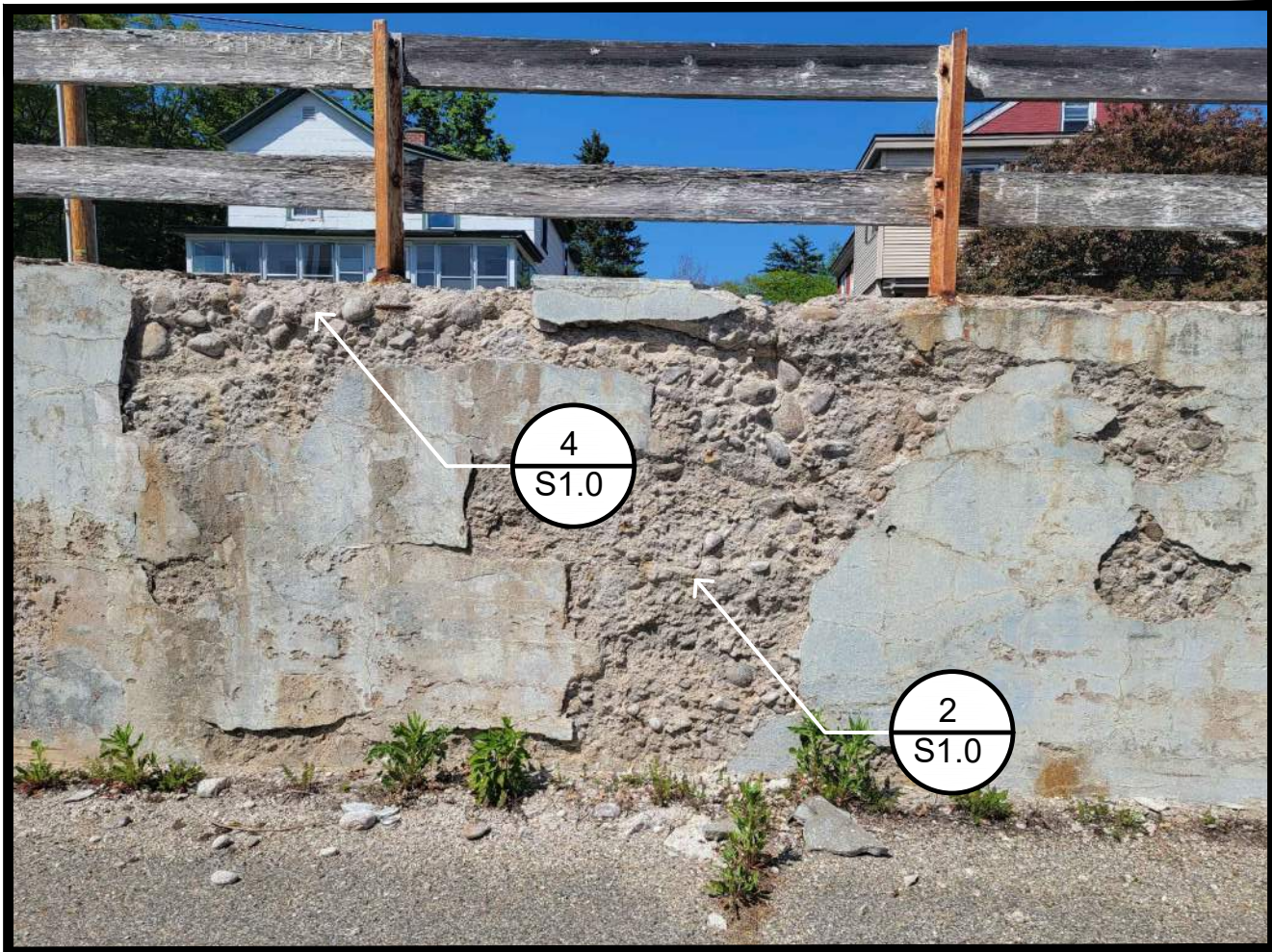


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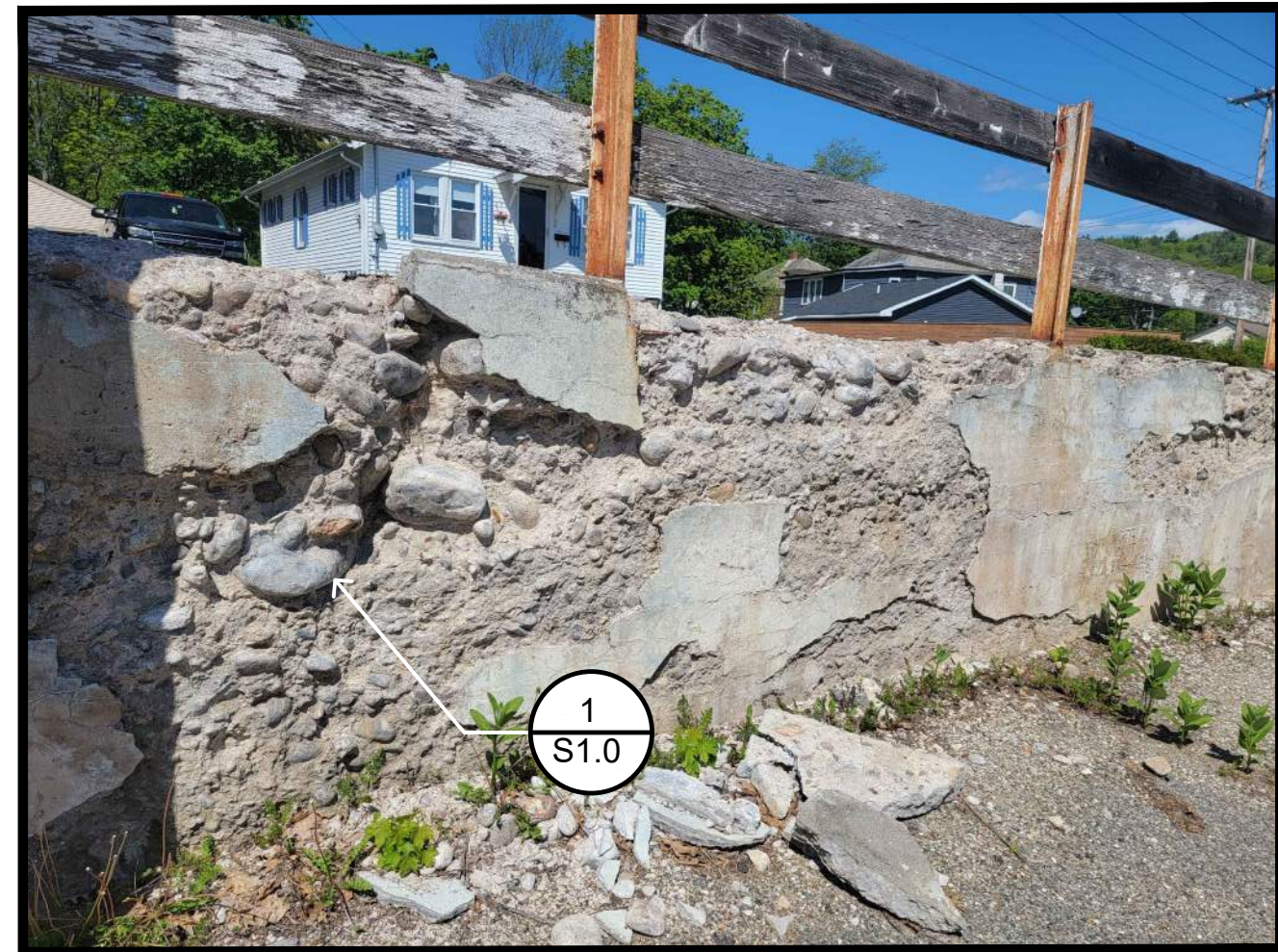


PHOTO 8



PHOTO 9

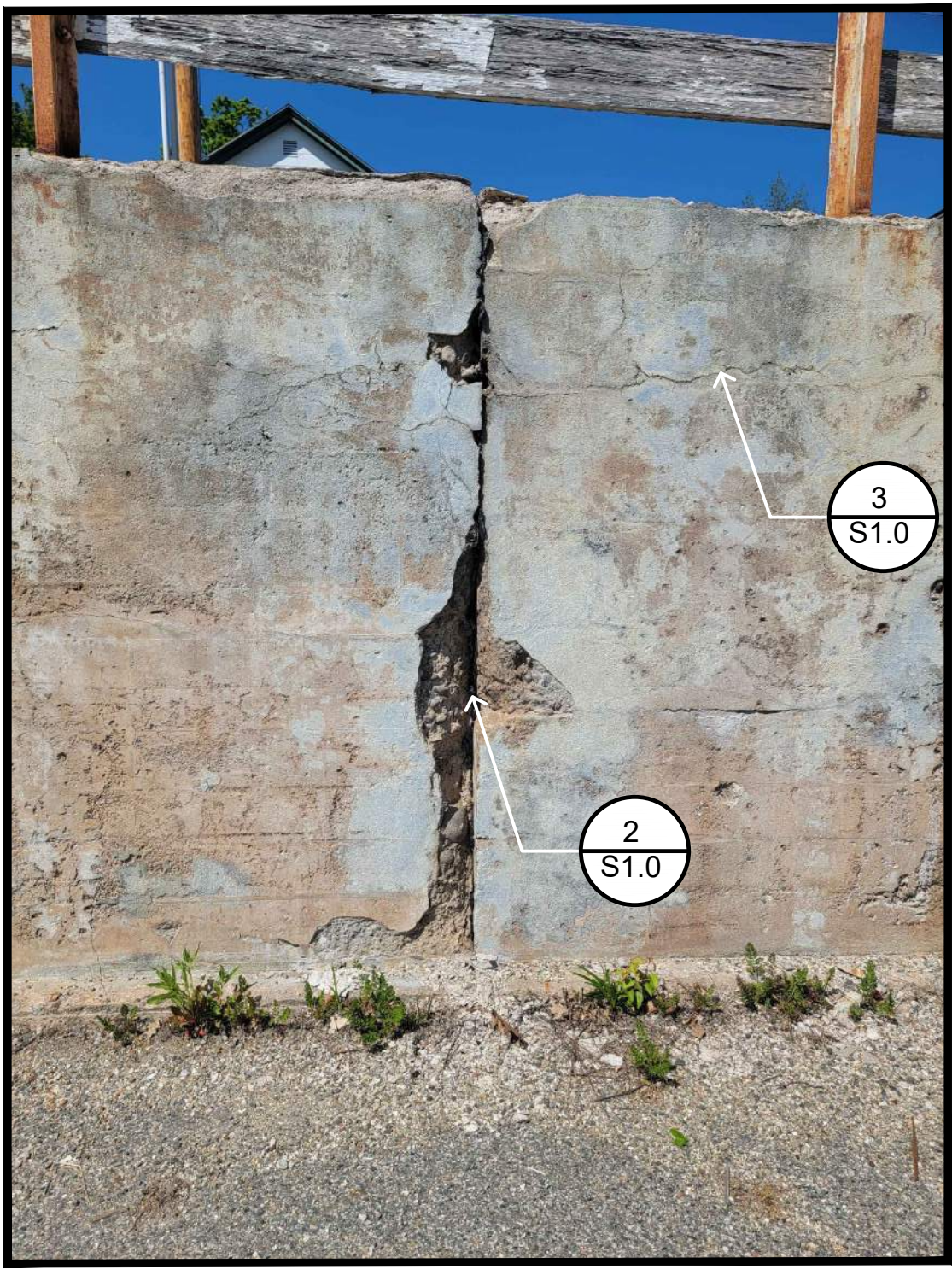


PHOTO 10

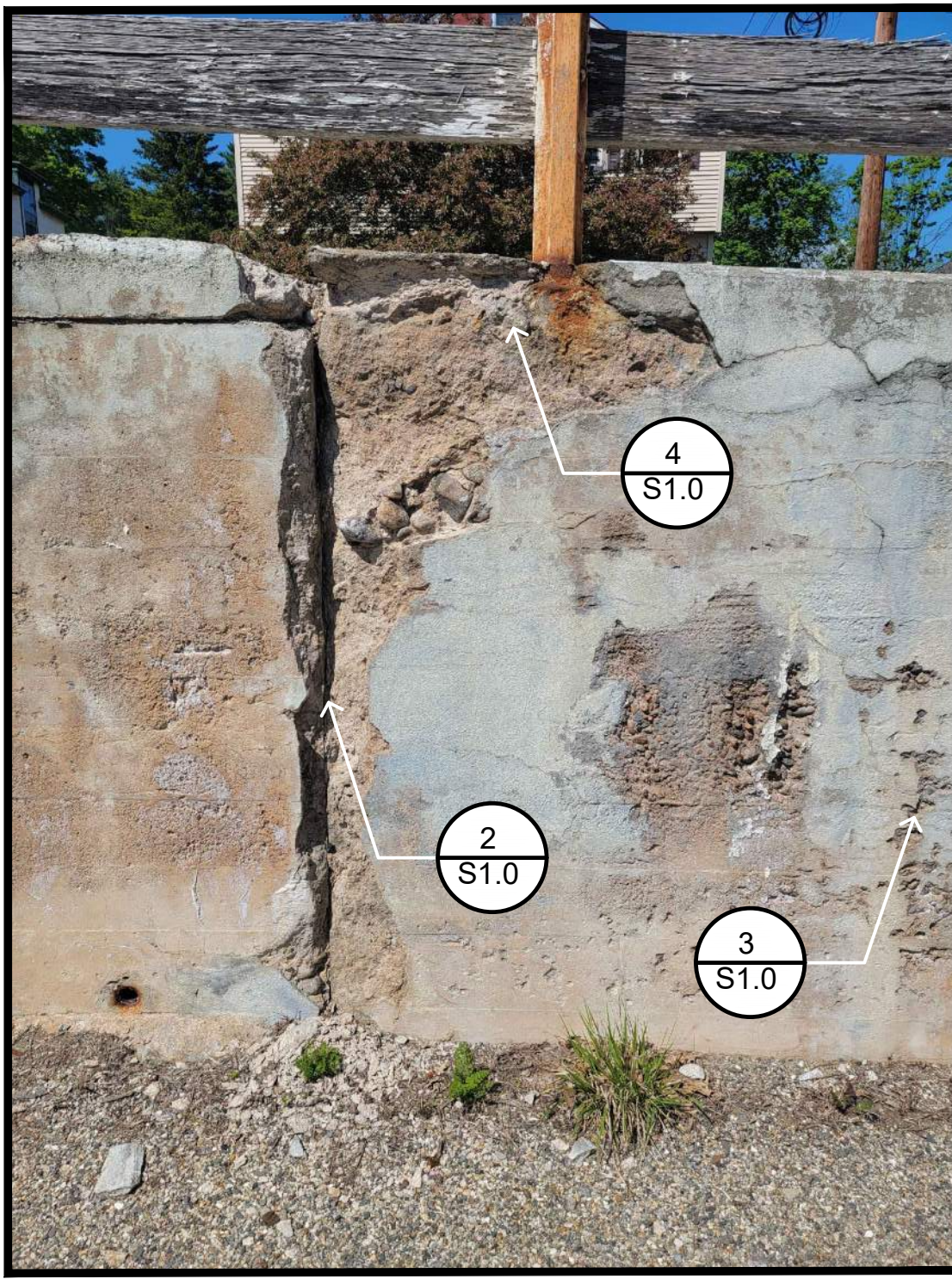


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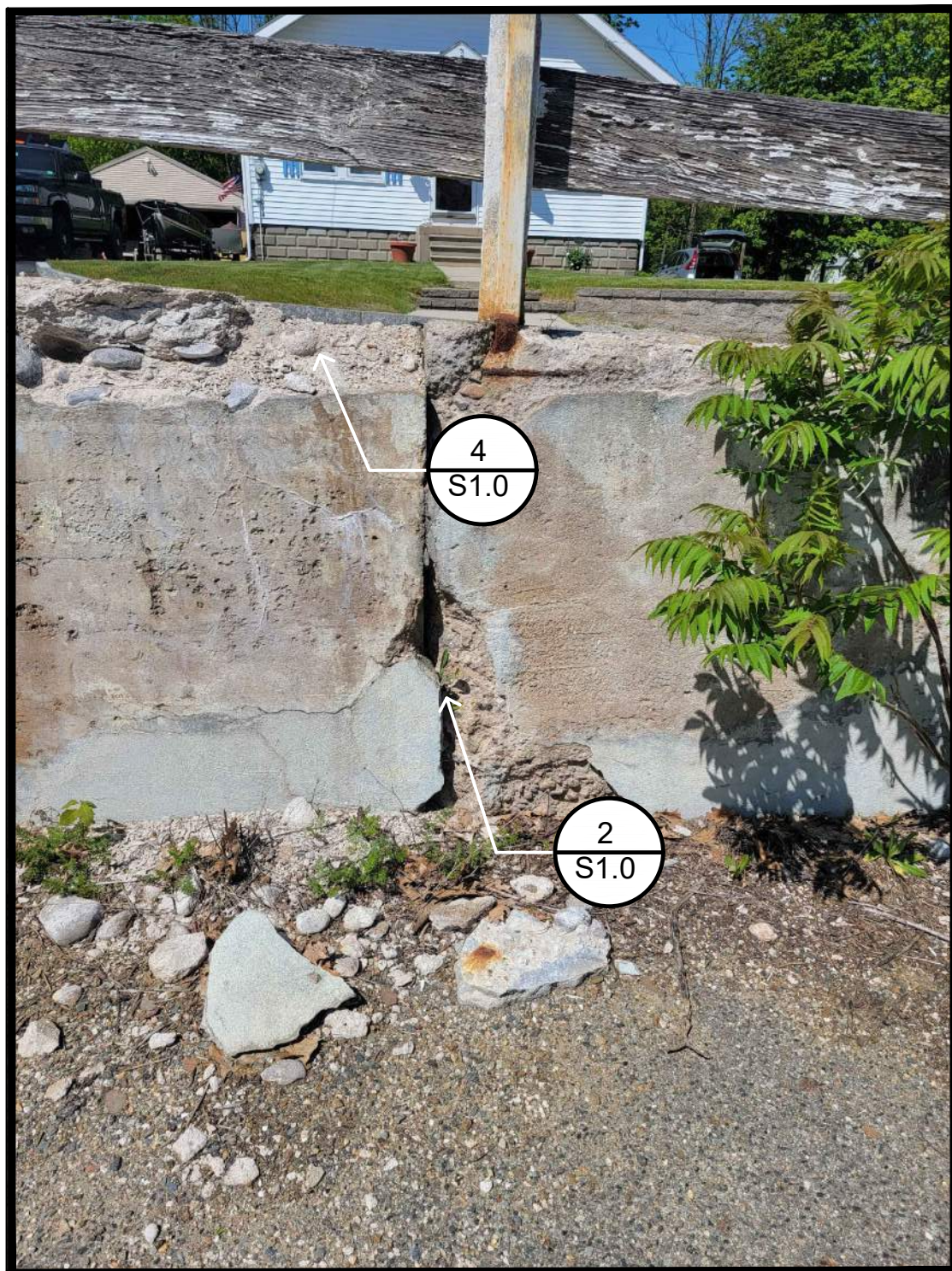


PHOTO 12

GENERAL NOTES:

- PHOTOS & REPAIR CALLOUTS ARE TO PROVIDE AN EXAMPLE OF REQUIRED REPAIRS AND ARE NOT SHOWING ALL LOCATIONS REPAIRS WILL BE REQUIRED.
- CONTRACTOR TO FIELD VERIFY SOUNDNESS OF CONCRETE & DETERMINE REPAIR DETAIL TO USE.
- CONTACT ENGINEER OF RECORD WITH ANY QUESTIONS OR CLARIFICATIONS NEEDED.

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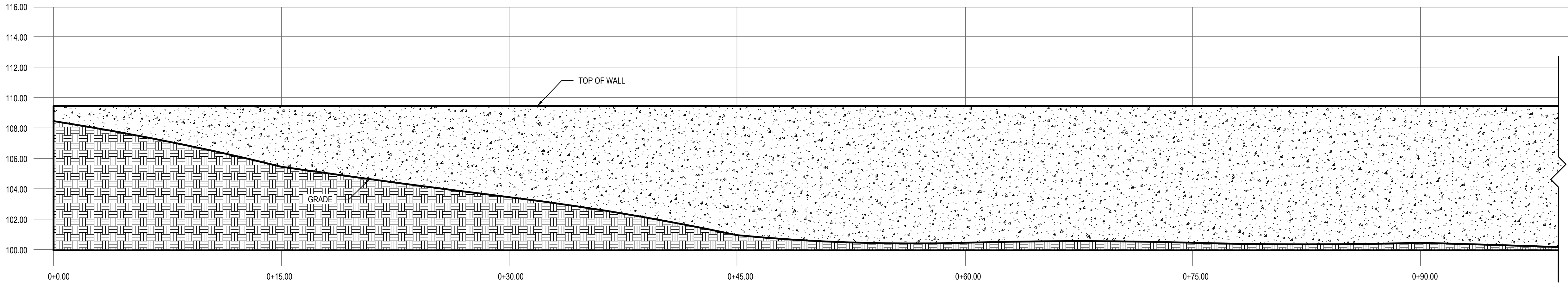
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SHEET TITLE:
**EXISTING CONDITIONS
PHOTOS**

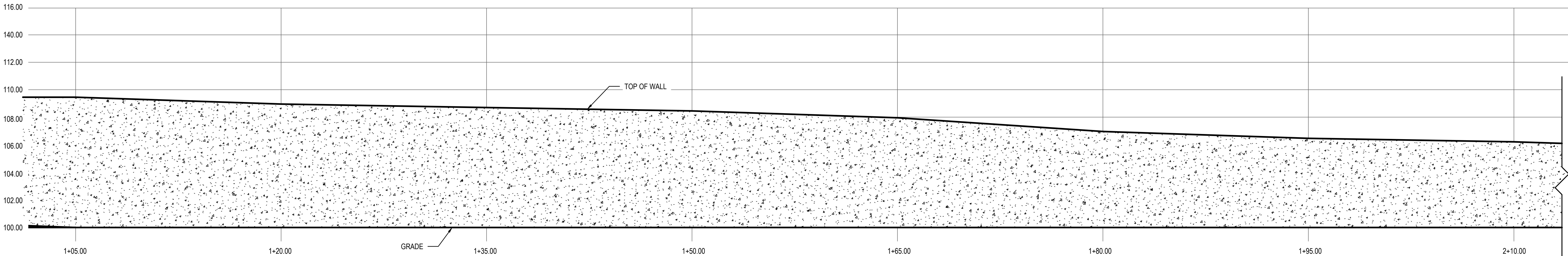
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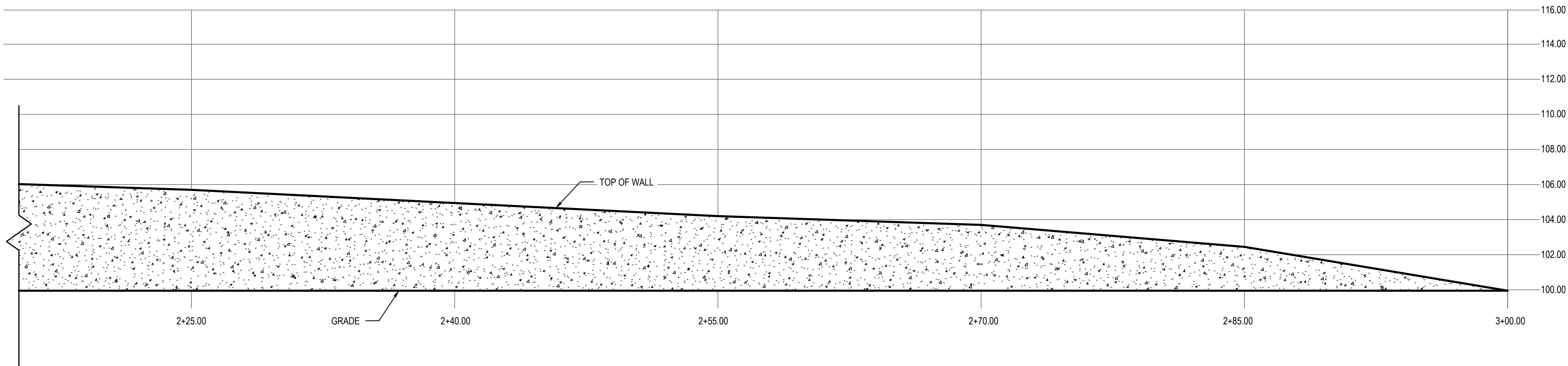
4



3



2



1

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SHEET TITLE:
**RETAINING WALL
ELEVATION**

S3.0

A

B

C

D

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F

