



Property (location of work)

Property Address: 2401 E Broad St Richmond, VA 23223- Current Zoning: R-6 - Reside
Historic District: St John's Church

Application is submitted for: (check one)

- Alteration
- Demolition
- New Construction

Project Description (attach additional sheets if needed):

The project includes repairs to the retaining wall along the N. 24th Street portion of the St. John's Church Cemetery in Richmond, Virginia.
The existing retaining wall varies in condition including some areas heavily deteriorated. The repair generally **+**

Applicant/Contact Person: Heywood Harrison

Company: COR Dept. Parks, Recreation and Community Facilities
Mailing Address: 1209 Admiral Street
City: Richmond State: VA Zip Code: 23220
Telephone: (804) 646-5608
Email: heywood.harrison@rva.gov
Billing Contact? Yes Applicant Type (owner, architect, etc.): Owner

Property Owner: COR Department of Parks, Recreation and Community Facilities

If Business Entity, name and title of authorized signee: Capital Projects Manager, Sr.
Mailing Address: 1209 Admiral St
City: Richmond State: VA Zip Code: 23220
Telephone: (804) 646-5608
Email: heywood.harrison@rva.gov
Billing Contact? Yes

****Owner must sign at the bottom of this page****

Acknowledgement of Responsibility

Compliance: If granted, you agree to comply with all conditions of the certificate of appropriateness (COA). Revisions to approved work require staff review and may require a new application and approval from the Commission of Architectural Review (CAR). Failure to comply with the conditions of the COA may result in project delays or legal action. The COA is valid for one (1) year and may be extended for an additional year, upon written request and payment of associated fee.

Requirements: A complete application includes all applicable information requested on checklists available on the CAR website to provide a complete and accurate description of existing and proposed conditions, as well as payments of the application fee. Applications proposing major new construction, including additions, should meet with staff to review the application and requirements prior to submitting. Owner contact information and signature is required. Late or incomplete applications will not be considered.

Zoning Requirements: Prior to Commission review, it is the responsibility of the applicant to determine if zoning approval is required. Application materials should be prepared in compliance with zoning.

Property Owner Signature: Heywood Harrison Digitally signed by Heywood Harrison
Date: 2025.01.17 11:17:32 -05'00' Date: Jan. 18, 2025

Project Description

The project includes repairs to the retaining wall along the N. 24th Street portion of the St. John's Church Cemetery in Richmond, Virginia.

The existing retaining wall varies in condition including some areas heavily deteriorated. The repair generally consists of constructing a new reinforced concrete cantilevered retaining wall directly in front of the historic masonry walls. The new walls will have a footing below the sidewalk, a key beneath the footing and possibly have the heel extend into the existing retaining wall. By constructing a new wall in front of the masonry wall, the repairs will not affect the historic graves and structures behind the walls and is likely more economical. The new wall will also be relatively thin and will only extend about 16 inches out from the existing walls. Some of the walls will terminate short of the top to keep the historical wall caps and metal posts in place. The project includes removal and replacement of the brick sidewalk.

At this time, only the 24th Street wall is being repaired. As funding is obtained, walls along East Broad Street and East Grace Street will also be repaired. The 25th Street retaining wall was repaired in 2006.



ST. JOHN'S
 CHURCH
 CEMETERY
 WALL
 RENOVATION
 CITY OF RICHMOND,
 VIRGINIA

PHASE I
 24TH STREET WALL
 RENOVATION

REVISIONS:

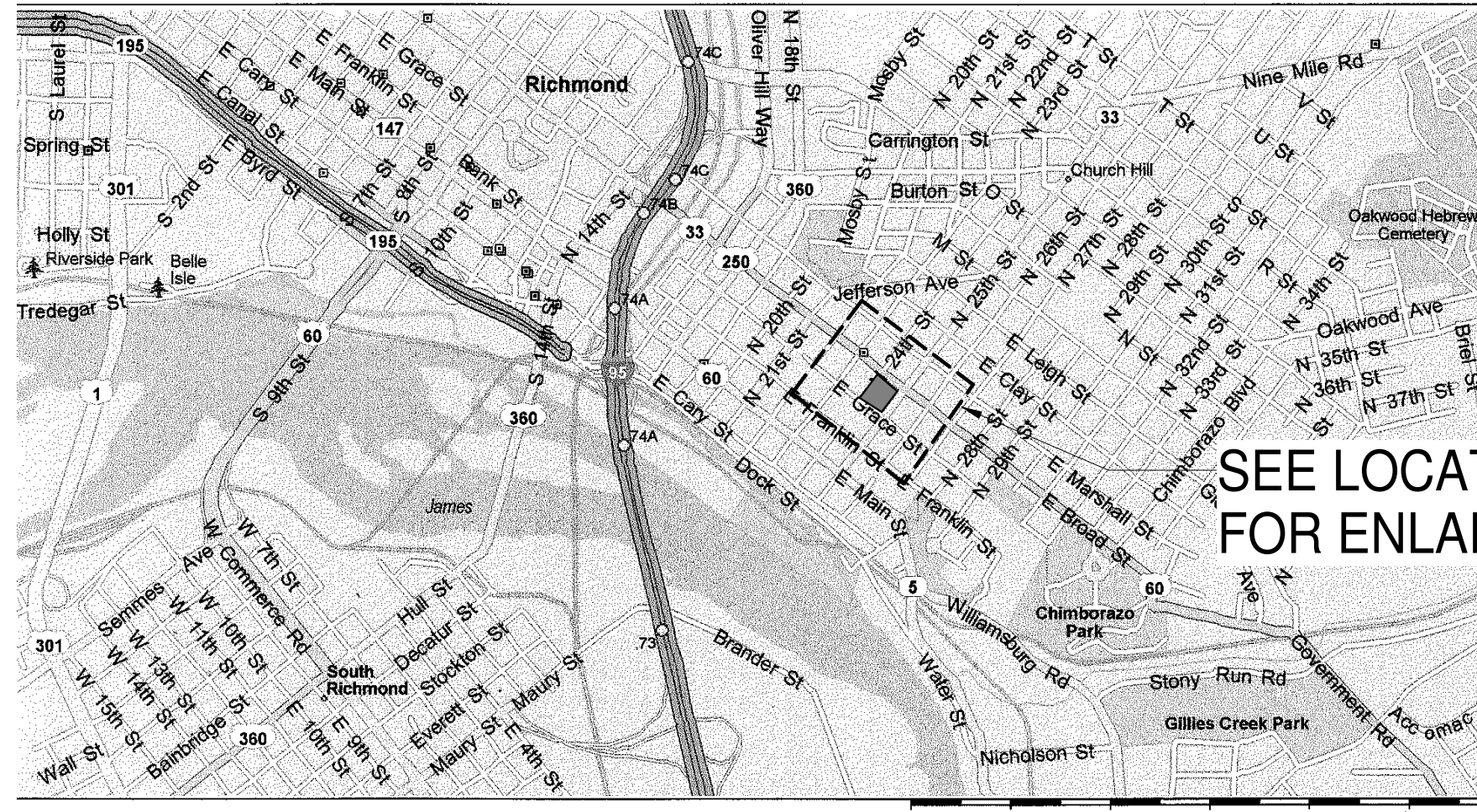
No.	DATE	DESCRIPTION

PROJECT NUMBER:
 2211-20
 ISSUE DATE:
 9/1/2023

PERMIT SET

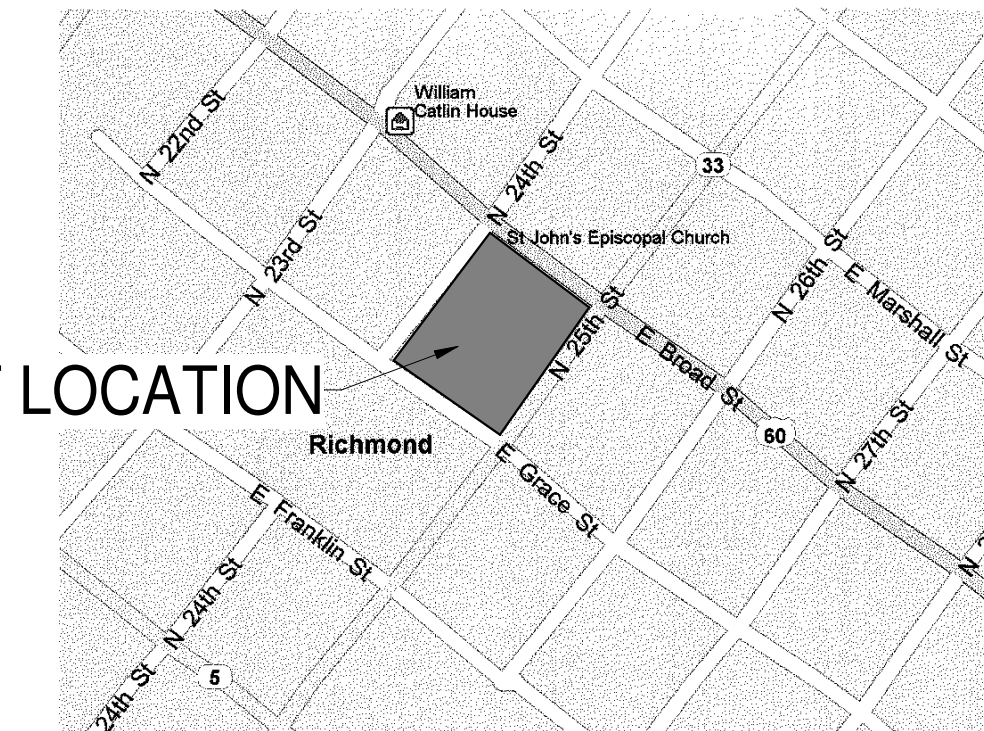
PROJECT
 INFORMATION
T1.0

- - CITY OF RICHMOND - - SAINT JOHN'S CHURCH CEMETERY WALL RENOVATION 24TH STREET - PHASE I



VICINITY MAP
 RICHMOND, VA. N

SEE LOCATION MAP
 FOR ENLARGEMENT



PROJECT LOCATION

LOCATION MAP
 RICHMOND, VA N

SHEET INDEX:

- T1.0 PROJECT INFORMATION
- S0.1 SITE PLAN AND GENERAL STRUCTURAL NOTES
- S0.2 TYPICAL DETAILS
- S1.1 GRACE STREET DEMOLITION PLAN AND ELEVATION
- S1.2 GRACE STREET NEW WORK PLAN AND ELEVATION
- S1.3 GRACE STREET SECTIONS AND DETAILS
- S1.4 GRACE STREET SECTIONS AND DETAILS

PROJECT DATA:

OWNER
 CITY OF RICHMOND
 900 EAST BROAD STREET
 RICHMOND, VA. 23219

APPLICABLE CODES
 2018 VIRGINIA CONSTRUCTION CODE,
 PART 1 OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE
 (VUSBC, EFFECTIVE JULY 1, 2021)

PROJECT NUMBERS
 CAPITAL IMPROVEMENT PROJECT:



ST. JOHN'S CHURCH CEMETERY WALL RENOVATION
 CITY OF RICHMOND, VIRGINIA

PHASE I 24TH STREET WALL RENOVATION

REVISIONS:

No.	DATE	DESCRIPTION

PROJECT NUMBER:
2211-20
 ISSUE DATE:
9/1/2023

PERMIT SET

SITE PLAN AND GENERAL NOTES
S0.1

GENERAL/BUILDING CODE

- IBC-1:** ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 VIRGINIA CONSTRUCTION CODE, PART 1 OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC), EFFECTIVE JULY 1, 2021.
- IBC-2:** THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IBC-3:** THE ENGINEER SHALL NOT HAVE THE AUTHORITY OR RESPONSIBILITY TO SUPERVISE OR DIRECT THE CONSTRUCTION WORK.
- IBC-4:** ALL SECTIONS AND DETAILS, WHETHER EXPLICITLY CUT ON PLAN OR NOT, SHALL BE CONSIDERED TYPICAL AND SHALL APPLY AT SIMILAR CONDITIONS.

EXISTING CONSTRUCTION

- EC-1:** INFORMATION REGARDING STRUCTURAL MEMBERS INDICATED TO BE EXISTING WAS OBTAINED DURING LIMITED FIELD OBSERVATIONS AND FROM LIMITED AVAILABLE EXISTING DRAWINGS. ACTUAL CONDITIONS MAY DIFFER FROM THAT WHICH IS INDICATED. IF THE CONTRACTOR UNCOVERS EXISTING CONDITIONS THAT DIFFER FROM THAT WHICH IS INDICATED ON PLAN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF THE DISCREPANCY IN ORDER THAT THE CONDITION MAY BE RESOLVED.
- EC-2:** FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE CONSTRUCTION AND FABRICATION OF ANY NEW STRUCTURAL MEMBERS. AT ALL LOCATIONS WHERE NEW ROOFS AND FLOORS ADJOIN EXISTING ROOFS AND FLOORS, EMPLOY A LICENSED SURVEYOR TO VERIFY EXISTING DIMENSIONS, FLOOR ELEVATIONS, AND FLOOR-TO-FLOOR HEIGHTS BEFORE ORDERING, DETAILING, FABRICATING, OR ERECTING ANY NEW STRUCTURAL MEMBERS.
- EC-3:** EXISTING CONSTRUCTION IS DENOTED USING SLANTED LETTERING, PHANTOM LINETYPE (DASH DOUBLE DOT), AND HALFTONE.

SPECIAL INSPECTIONS

- SI-1:** SPECIAL INSPECTIONS ARE REQUIRED BY THE BUILDING CODE (CHAPTER 17). REFER TO SECTION 014000 OF THE SPECIFICATIONS FOR THE GENERAL INSPECTION REQUIREMENTS. THE FOLLOWING IS A LIST OF ITEMS THAT REQUIRE SPECIAL INSPECTION. REFER TO THE REFERENCED SPECIFICATION SECTION FOR THE SPECIFIC REQUIREMENTS FOR EACH ITEM. THE INDEPENDENT INSPECTION AGENCY, ENGAGED BY THE OWNER, SHALL REVIEW THE TEST PROCEDURES AND INSPECTIONS WITH THE STRUCTURAL ENGINEER OF RECORD, THE GENERAL CONTRACTOR, AND THE OWNER PRIOR TO CONDUCTING TESTS AND INSPECTIONS.
- | | |
|--------------------------------------|--------------------|
| A. EARTH MOVING | SECTION 312000 |
| B. DRILLED CONCRETE PIERS AND SHAFTS | SECTION 316329 |
| C. CAST-IN-PLACE CONCRETE | SECTION 033000 |
| D. UNIT MASONRY | SECTION 042000 |
| E. POST-INSTALLED ANCHORS | (SEE GENERAL NOTE) |

SHOP DRAWING SUBMITTALS

- SDS-1:** REFER TO PROJECT MANUAL FOR SUBMITTAL REQUIREMENTS. IN THE ABSENCE OF A PROJECT MANUAL, PROVIDE (1) ELECTRONIC PDF COPY OF ALL STRUCTURAL SUBMITTALS.
- SDS-2:** SHOP DRAWINGS ARE TO BE REVIEWED BY THE CONTRACTOR AND SUBCONTRACTOR PRIOR TO BEING SUBMITTED FOR APPROVAL. SUBMITTED SHEETS SHALL CONTAIN THE CONTRACTOR'S SIGNED AND DATED REVIEW STAMP.

DESIGN LOADS AND PARAMETERS

DL-2: DESIGN LOADS

EARTH PRESSURE (EQUIVALENT FLUID)	43 PCF
SURCHARGE PRESSURE	36 PSF
PASSIVE PRESSURE	425 PCF
FRICTION COEFFICIENT	0.55

FOUNDATIONS

- F-1:** FOUNDATIONS FOR THIS STRUCTURE ARE SPREAD FOOTINGS BEARING ON EITHER VIRGIN SOIL OR CONTROLLED COMPACTED FILL WITH AN ASSUMED SOIL BEARING CAPACITY OF 4000 PSF IN ACCORDANCE WITH THE OWNER'S GEOTECHNICAL ENGINEER'S REPORT BY SCHNABEL ENGINEERING, DATED 12/5/2003.
- F-2:** THE OWNER'S GEOTECHNICAL ENGINEER SHALL VERIFY, PRIOR TO POURING CONCRETE, THAT THE SOIL IS CAPABLE OF SUPPORTING SUCH A LOAD AND IS CONSISTENT WITH THE GEOTECHNICAL REPORT.
- F-3:** THE CONTRACTOR SHALL PROTECT THE FOOTINGS AND SLABS FROM DAMAGE FROM FROST HEAVE DURING CONSTRUCTION UNTIL THE FINAL DESIGN STRUCTURE IS COMPLETE.

CONCRETE

- C-1:** ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

CONCRETE CLASS	PROJECT LOCATION	EXPOSURE CLASS	CONC WT	MIN F _c (PSI)	MAX W/C/M RATIO	AIR CONTENT
A2	WALL FOUNDATIONS AND SIDEWALKS	F2	NW	4500	0.45	6.0% ± 1.5%
J	EXT WALLS	F2	NW	4500	0.45	6.0% ± 1.5%
L	DRILLED PIERS / CASSONS	S1	NW	4000	0.50	6.0% ± 1.5%

- C-2:** STEEL REINFORCING OF CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS.
 - ASTM A615 GRADE 60 (TYPICAL REINFORCING STEEL)
 - ASTM A706 (REINFORCING STEEL AT WELDED CONDITIONS)
 - ASTM A1064 (PLAIN WELDED WIRE FABRIC - USE FLAT SHEETS ONLY)
- C-3:** REFER TO SPECIFICATIONS FOR FINISHES.

STRUCTURAL STEEL

- SS-1:** ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
 - ASTM A572 GRADE 50 (S, M, AND HP SHAPES, ANGLES, PLATE AND BAR) F_y = 50 KSI
 - ASTM A36 (OTHER ROLLED STRUCTURAL SHAPES NOT INDICATED ABOVE) F_y = 36 KSI
 - E70XX (SMALL PROCESS WELDINGS)

ABBREVIATIONS

AB = ANCHOR BOLT	HT = HEIGHT
BLDG = BUILDING	INT = INTERIOR
BOT = BOTTOM	JT = JOINT
BRG = BEARING	LBS = POUNDS
CIP = CAST-IN-PLACE	MAS = MASONRY
CJ = CONTROL JOINT	MAX = MAXIMUM
CL = CENTERLINE	MIN = MINIMUM
CLR = CLEAR	NO. = NUMBER
CONC = CONCRETE	NIC = NOT IN CONTRACT
CONT = CONTINUOUS	NW = NORMAL WEIGHT
COORD = COORDINATE	OC = ON CENTER
DET = DETAIL	OPP = OPPOSITE
DFT = DRY FILM THICKNESS	PL = PLATE
DIA = DIAMETER	PLF = POUNDS PER LINEAR FOOT
DIAG = DIAGONAL	PSF = POUNDS PER SQUARE FOOT
DIM = DIMENSION	REF = REFERENCE
DWGS = DRAWINGS	REINF = REINFORCING
EA = EACH	REQD = REQUIRED
EJ = EXPANSION JOINT	SECT = SECTION
EL = ELEVATION	SIM = SIMILAR
EQ = EQUAL	SPA = SPACE
EXIST = EXISTING	STD = STANDARD
EW = EACH WAY	T&B = TOP AND BOTTOM
EXP = EXPANSION	TYP = TYPICAL
EXT = EXTERIOR	UNO = UNLESS NOTED OTHERWISE
FLT = FLAT BAR	VERT = VERTICAL
FTG = FOOTINGS	WCJ = WALL CONTROL JOINT
GALV = GALVANIZED	WT = WEIGHT
GC = GENERAL CONTRACTOR	WWF = WELDED WIRE FABRIC
HK = HOOK	
HORIZ = HORIZONTAL	

GENERAL CONSTRUCTION NOTES

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES INDICATED ON THESE PLANS IS BASED ON AVAILABLE RECORDS. DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE INFORMATION INDICATED ON THESE PLANS. MISS UTILITY SHALL BE CONTACTED AT 1-800-552-7001 PRIOR TO BEGINNING ANY EXCAVATION OR EARTHWORK. TEST PITS SHALL BE DUG BY HAND AS REQUIRED BASED ON FIELD CONDITIONS.
- CUT AND FILL SLOPES SHALL NOT EXCEED A SLOPE OF 3:1 (33 PERCENT GRADE) UNLESS OTHERWISE NOTED ON THE PLANS.
- STABILIZE THE SIDE SLOPES OF ALL DEMOLITION PITS AT THE CONCLUSION OF DEMOLITION.

EROSION AND SEDIMENT CONTROL NOTES

- ES-1:** UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2:** THE DIVISION OF SOIL AND WATER CONSERVATION OF THE DEPARTMENT OF CONSERVATION AND RECREATION MUST BE NOTIFIED (804-527-4206) ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3:** ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING, GRADING OR LAND-DISTURBING AND SEQUENCE OF CONSTRUCTION APPROVED.
- ES-4:** A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5:** PRIOR TO LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS OR OFF-SITE FILL ACTIVITIES, SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE DEPARTMENT OF CONSERVATION AND RECREATION/DIVISION OF SOIL AND WATER CONSERVATION.
- ES-6:** INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE DIVISION OF SOIL AND WATER CONSERVATION OF THE DEPARTMENT OF CONSERVATION AND RECREATION.
- ES-7:** SITE GRADING SHALL DRAIN TO THE PERIMETER CONTROLS AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING CONSTRUCTION, UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-9:** INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY (AT LEAST DAILY) AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ALL NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. MAINTAIN A LOG OF INSPECTIONS, MAINTENANCE PERFORMED AND REPAIRS MADE FOR INSPECTION BY THE OWNER AND THE DEPARTMENT OF CONSERVATION AND RECREATION/DIVISION OF SOIL AND WATER CONSERVATION.
- MS-1:** PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- MS-2:** DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. COORDINATE & MAINTAIN TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- MS-3:** A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE DIVISION OF SOIL AND WATER CONSERVATION OF THE DEPARTMENT OF CONSERVATION AND RECREATION, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- MS-7:** CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- MS-10:** ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- MS-16:** UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. C. EFFLUENT FROM Dewatering OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS. F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- MS-17:** WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRAFFIC ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- MS-18:** ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED, AS DETERMINED BY THE DIVISION OF SOIL AND WATER CONSERVATION.

GENERAL EROSION CONTROL NOTES

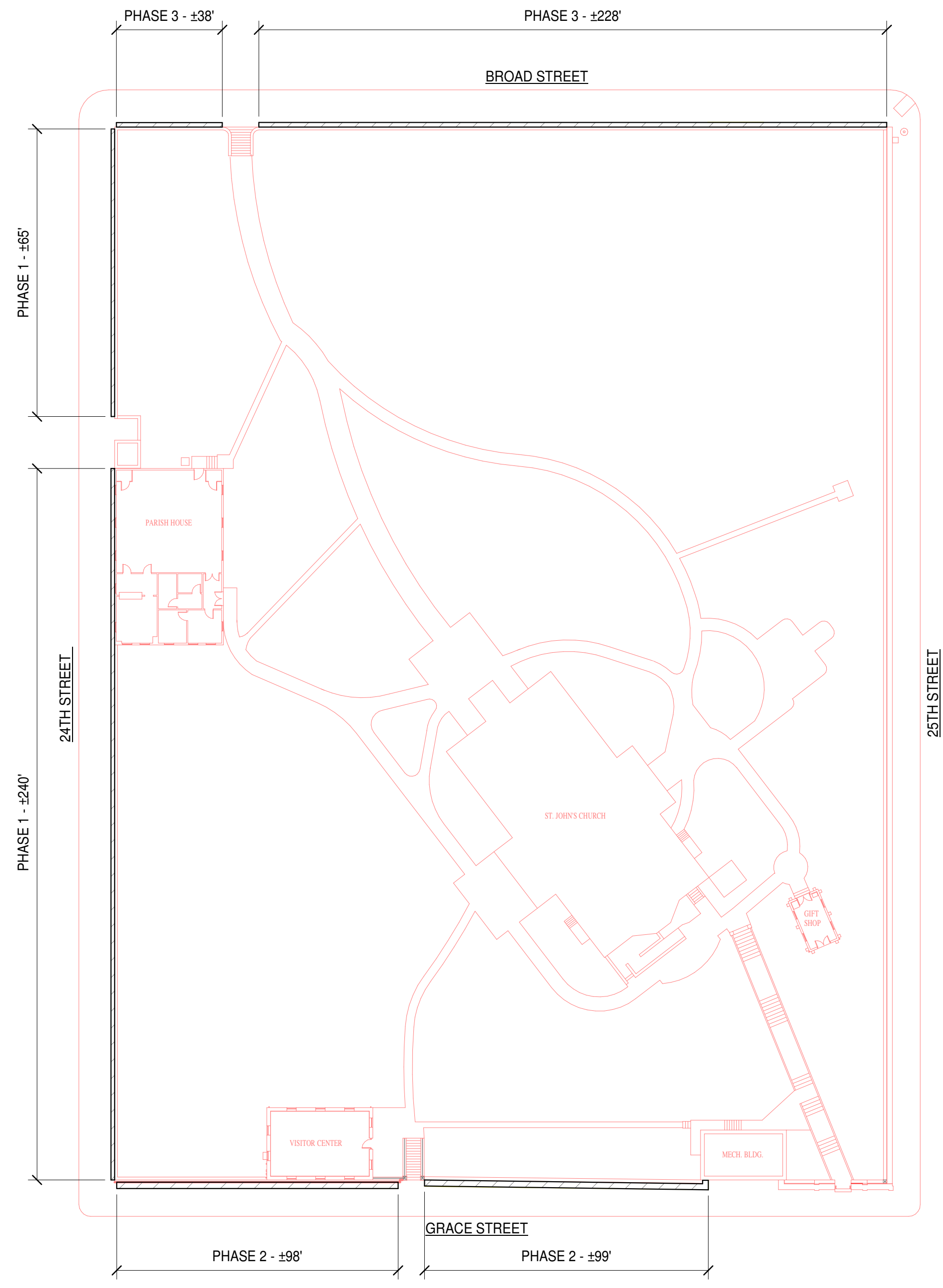
- RETAIN A COPY OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3RD EDITION ON SITE AT ALL TIMES.
- ADHERE TO THE STANDARDS LISTED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3RD EDITION.

GENERAL NOTES

- PERMANENT WATER SERVICE: CITY OF RICHMOND
- PERMANENT SEWER SERVICE: CITY OF RICHMOND
- DIMENSIONS AND RADII ARE TO FACE OF CURB, WHERE APPLICABLE UNLESS OTHERWISE INDICATED.
- DIMENSION AT BUILDING ARE TO OUTSIDE FACE UNLESS OTHERWISE INDICATED.
- ANY PERMIT WHICH MUST BE OBTAINED SHALL BE THE CONTRACTORS RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMIT.
- THE LOCATION OF EXISTING SEWER, WATER AND GAS LINES, CONDUITS AND OTHER STRUCTURES ACROSS, UNDERNEATH OR OTHERWISE ALONG THE LINE OF THE WORK ARE NOT NECESSARILY INDICATED ON THE PLANS, AND IF INDICATED ARE ONLY APPROXIMATE. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES INDICATED ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ARCHITECT IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT INDICATED ON THE PLANS. IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT INDICATED ON THE PLANS, FOR ASSISTANCE IN LOCATING EXISTING UTILITIES CALL "MISS UTILITY"; 1-800-552-7001.
- ALL WATER AND SEWER CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS OF CITY OF RICHMOND.
- WHERE PAVEMENT SHALL BE REMOVED, REMOVE AGGREGATE BASE MATERIAL TO SUB-GRADE.
- DAMAGE TO UTILITIES (INCLUDING UNDERGROUND) AND PROPERTY OF OTHERS DURING CONSTRUCTION SHALL BE REPAIRED TO PRE CONSTRUCTION CONDITIONS AT NO COST TO OWNER.
- EXISTING PAVEMENT AND OTHER SURFACES DISTURBED (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO LIKE-NEW CONDITION AT NO ADDITIONAL COST TO OWNER.
- MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE ARCHITECT. REPAIR, AT OWN EXPENSE, ALL DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
- A SET OF CITY APPROVED CONSTRUCTION DOCUMENTS SHALL BE AVAILABLE AT THE SITE AT ALL TIMES. A DESIGNATED RESPONSIBLE REPRESENTATIVE SHALL BE AVAILABLE FOR CONTACT BY CITY INSPECTORS.
- LANDSCAPING AND SITE IMPROVEMENTS SHALL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE NEEDS OF DRIVERS AT ENTRANCE/EXIT LOCATIONS.
- ALL CONSTRUCTION AND MATERIALS WITHIN THE CITY OR RICHMOND RIGHT-OF-WAY SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF RICHMOND.
- NOTIFY THE CITY EROSION CONTROL INSPECTOR AT LEAST 24 HOUR PRIOR TO STARTING WORK ON THIS PROJECT.
- PROTECT ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED WITH APPROPRIATE MEASURES.
- WHERE PLANS CALL FOR MATCHING EXISTING PAVEMENT, CUT JOINTS AND/OR ASPHALT OVERLAY IS TO BE PROVIDED.
- ALL GRANITE CURBS AND BRICK PAVERS REMOVED FROM EXISTING CITY OF RICHMOND RIGHT-OF-WAY SHALL BE TURNED OVER TO THE CITY OF RICHMOND FOR THEIR USE.

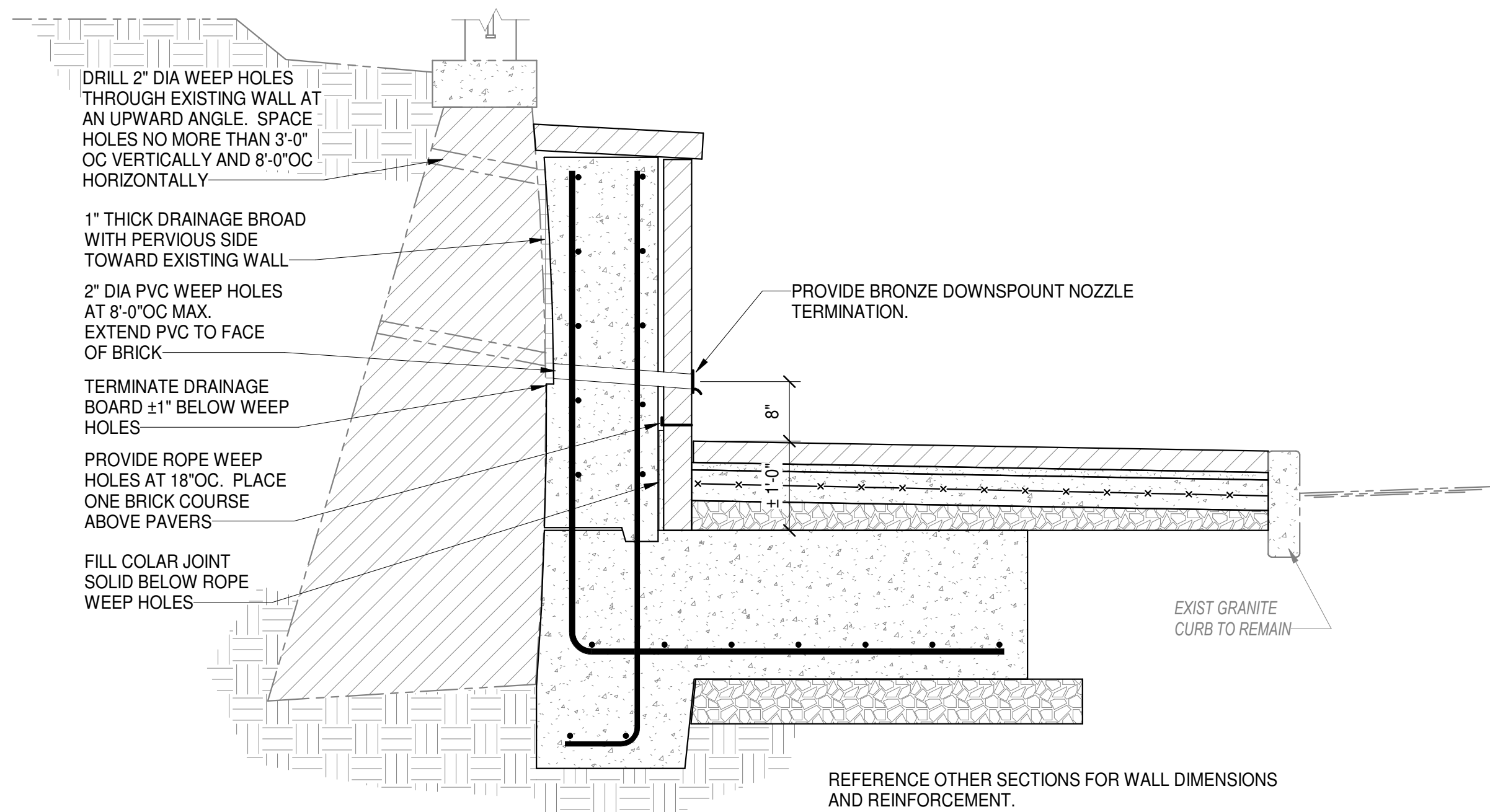
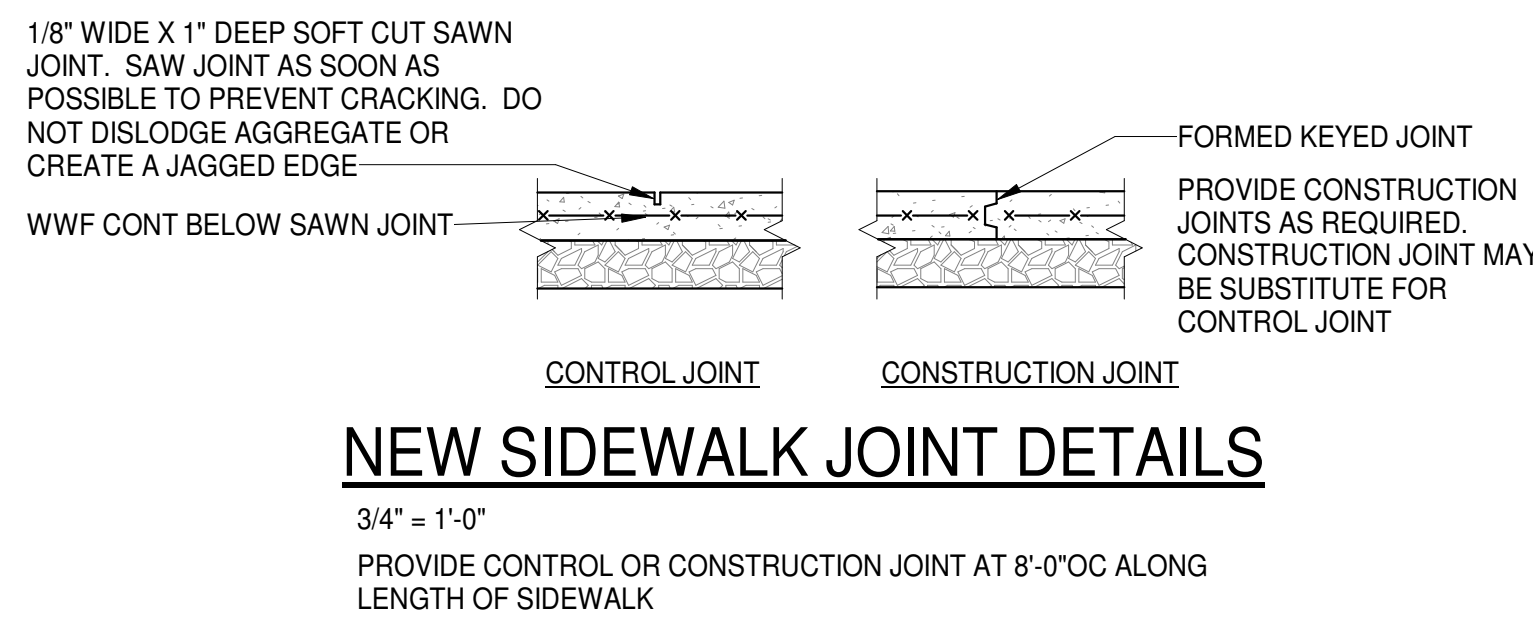
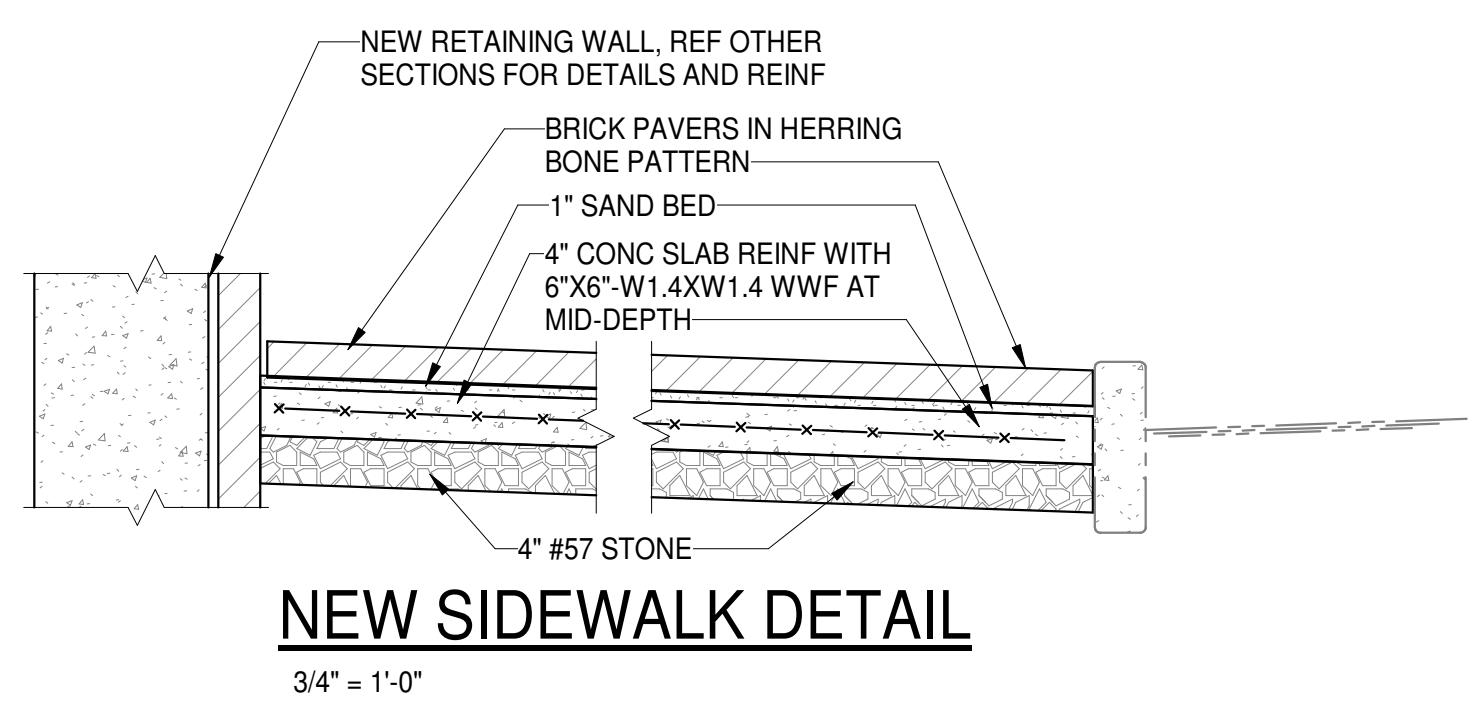
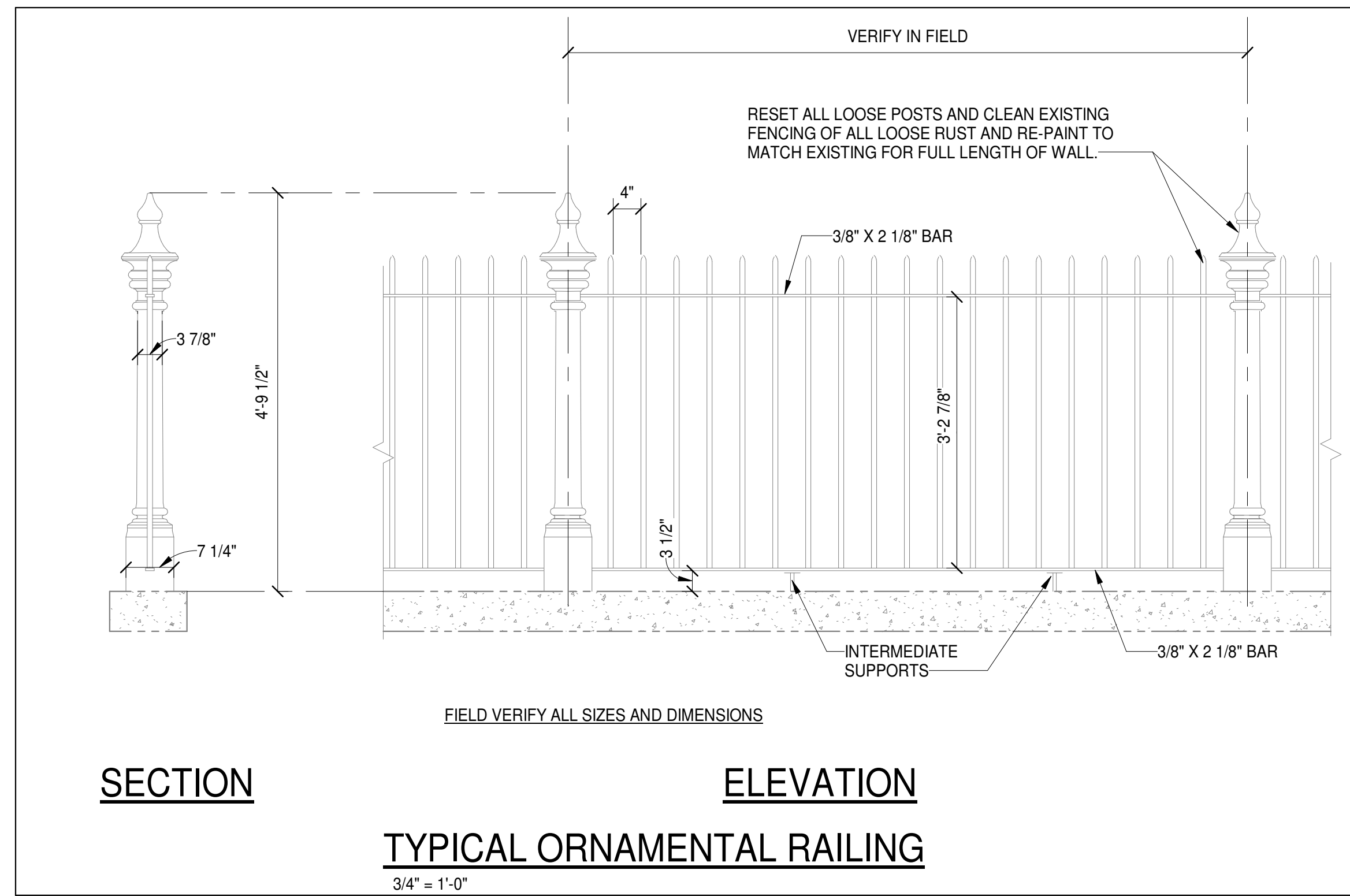
CITY OF RICHMOND EROSION AND SEDIMENT CONTROL NOTES

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- EXCESS EXCAVATION DISPOSED OF OFF THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP OF THE LAND DISTURBING ACTIVITY.
- EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED SO THAT SEDIMENT CARRYING RUNOFF FROM THE SITE WILL NOT ENTER STORM DRAINAGE FACILITIES.
- EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS STABILIZED.
- PROPERTIES ADJOINING THE SITE SHALL BE KEPT CLEAN OF MUD OR SILT CARRIED FROM THE SITE BY VEHICULAR TRAFFIC OR RUNOFF.
- THE DISPOSAL OF WASTE MATERIALS REMOVED FROM EROSION AND SEDIMENT CONTROL FACILITIES AND THE DISPOSAL OF THESE FACILITIES SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERIODICALLY INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES AND INSURE THAT THEY ARE IN GOOD WORKING ORDER. AT A MINIMUM, ALL DEVICES SHALL BE INSPECTED WEEKLY AND AFTER MAJOR RAINFALL EVENTS. ANY DEVICE NEEDING REPAIRS SHALL BE REPAIRED WITHIN 24 HOURS.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES IF, DURING THE COURSE OF CONSTRUCTION, THE CITY OF RICHMOND OR THE ARCHITECT DETERMINES THAT THEY ARE REQUIRED.
- SILT SHALL BE REMOVED FROM SILT FENCES WHEN THE SILT REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- THE CONTRACTOR SHALL PERIODICALLY TOP DRESS THE CONSTRUCTION ENTRANCE WITH CLEAN STONE. THE VEHICLE TIRES SHALL BE WASHED IF THE CONSTRUCTION ENTRANCE FAILS TO REMOVE DIRT FROM THE TIRES OF VEHICLES ENTERING A PAVED STREET. DIRT TRACKED ONTO PAVED STREETS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- EVERY STORM INLET SHALL BE PROVIDED WITH INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES UNTIL ALL OF THE WORK IS ACCEPTED BY THE OWNER.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR APPOINTING A DESIGNATED "RESPONSIBLE LAND DISTURBER" (RLD) WHO SHALL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES. THE RLD SHALL BE CERTIFIED IN VIRGINIA.
- LAND DISTURBANCE EXCEEDS 1 ACRE THEREFORE A NPDES PERMIT (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM) IS REQUIRED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.



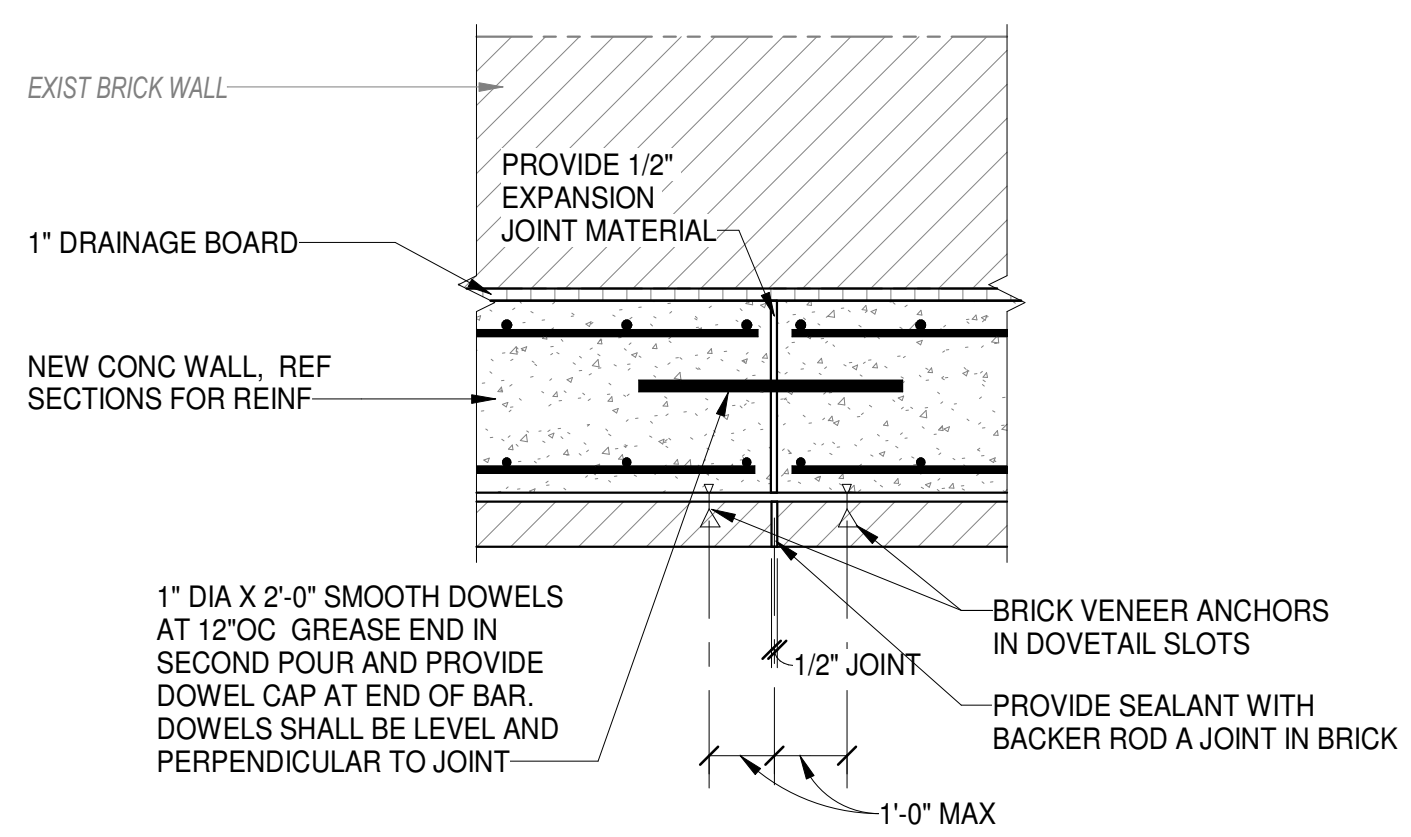
SITE PLAN
 NTS

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 CHECKED DATE: 9/1/2023

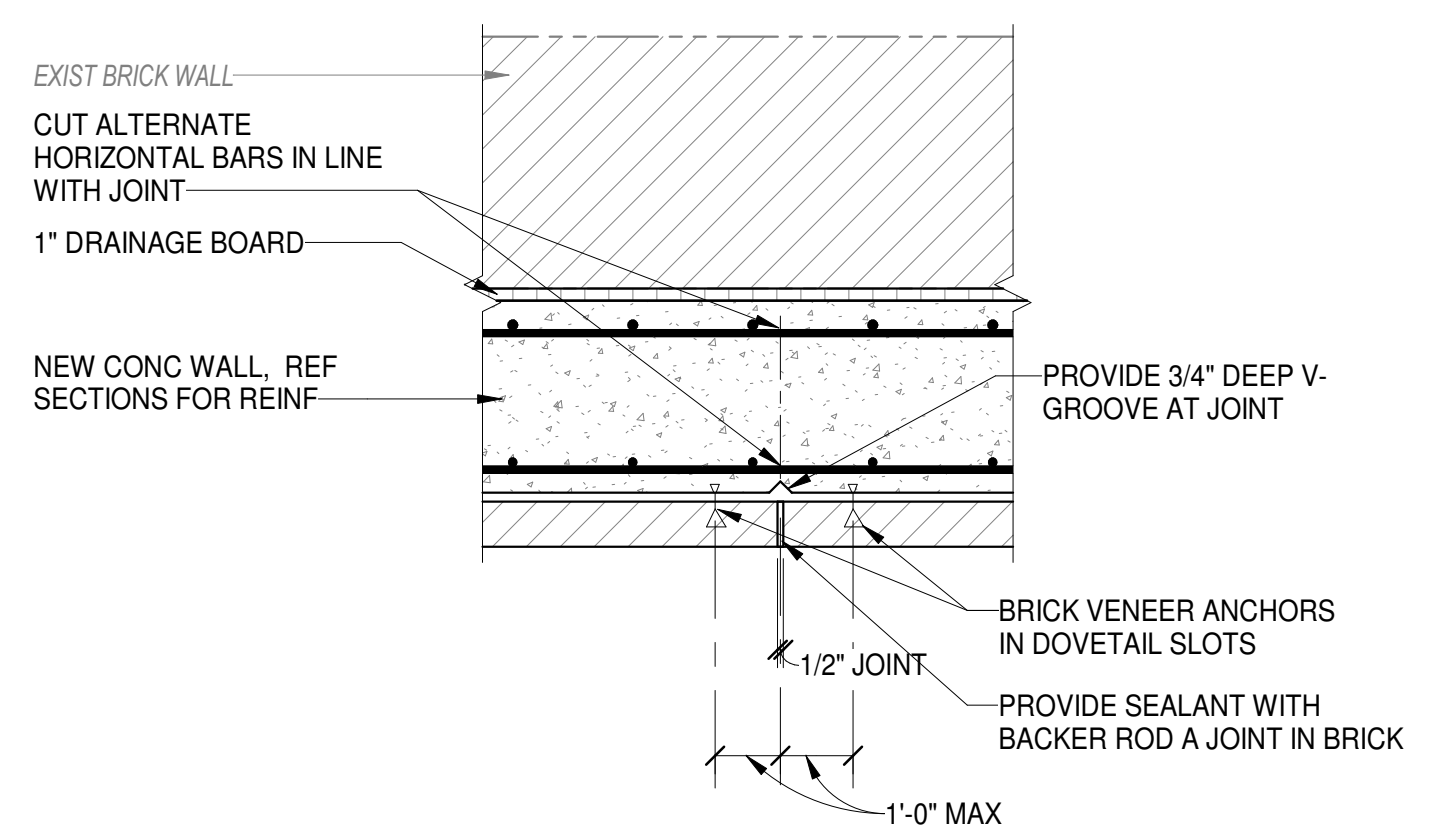


TYPICAL CONCRETE REINFORCING BAR LAP SPLICES		
BAR SIZE	HORIZONTAL BAR LAP SPLICE LENGTH	VERTICAL BAR LAP SPLICE LENGTH
#5	2'-2"	3'-0"
#6	2'-6"	3'-4"
#7	4'-0"	4'-6"

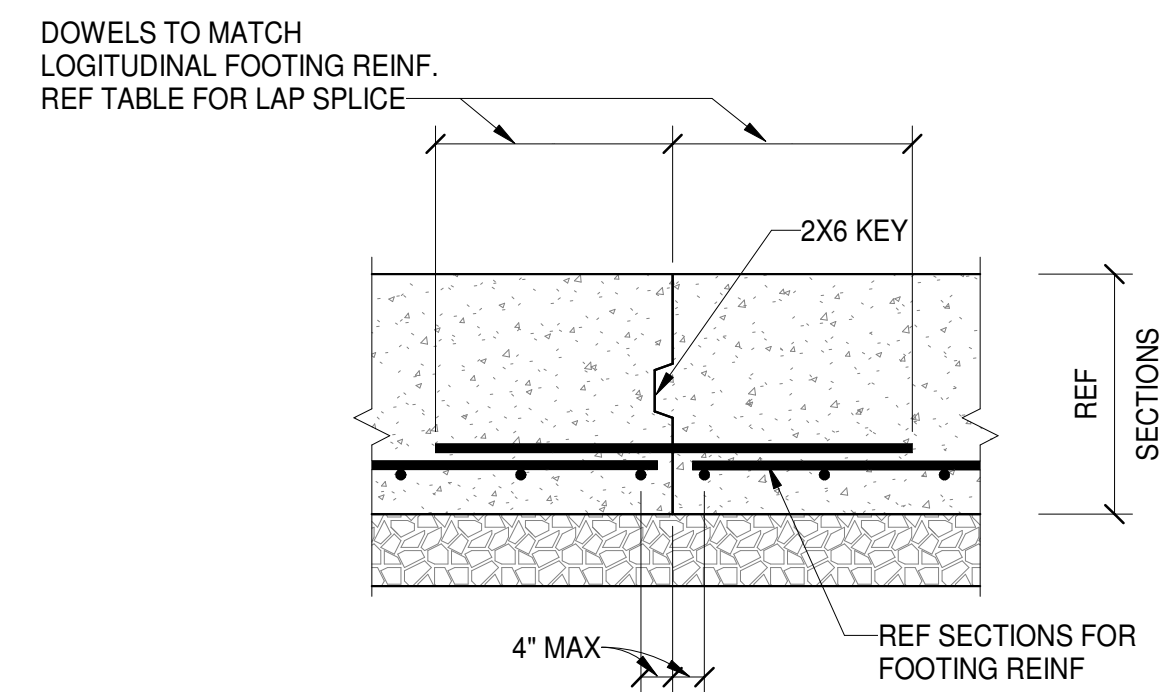
- LAP SPLICE LENGTHS ARE MINIMUMS FOR GRADE BEAMS USING f_c=4000 PSI NORMAL WEIGHT CONCRETE.
- LAP SPLICE LENGTHS ASSUME f_y=60ksi UNCOATED REINFORCING STEEL.



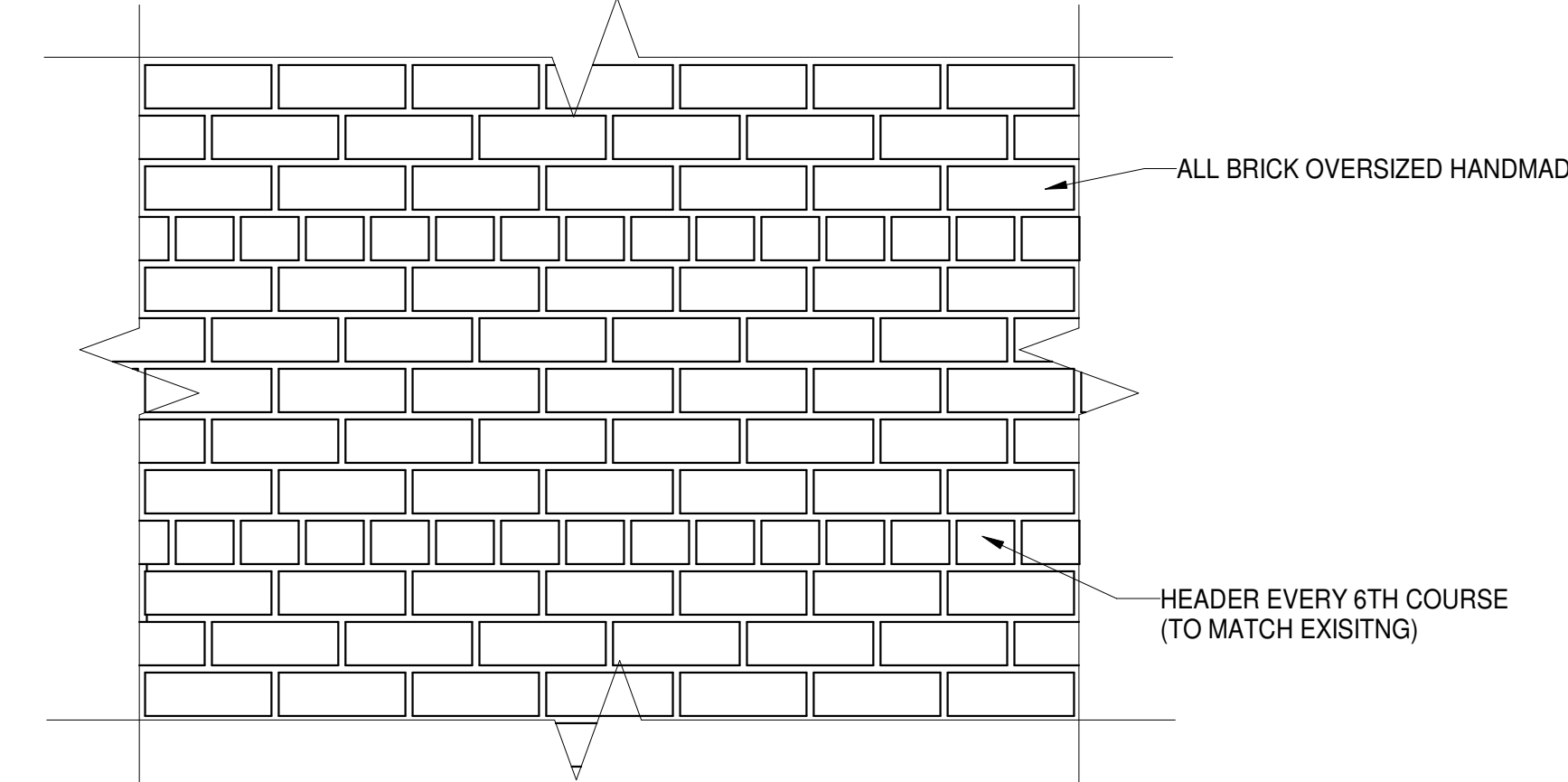
PLAN DETAIL AT BRICK AND CONCRETE EXPANSION JOINTS (CEJ)



PLAN DETAIL AT BRICK EXPANSION JOINT AND CONCRETE WALL CONTROL JOINT (CCJ)

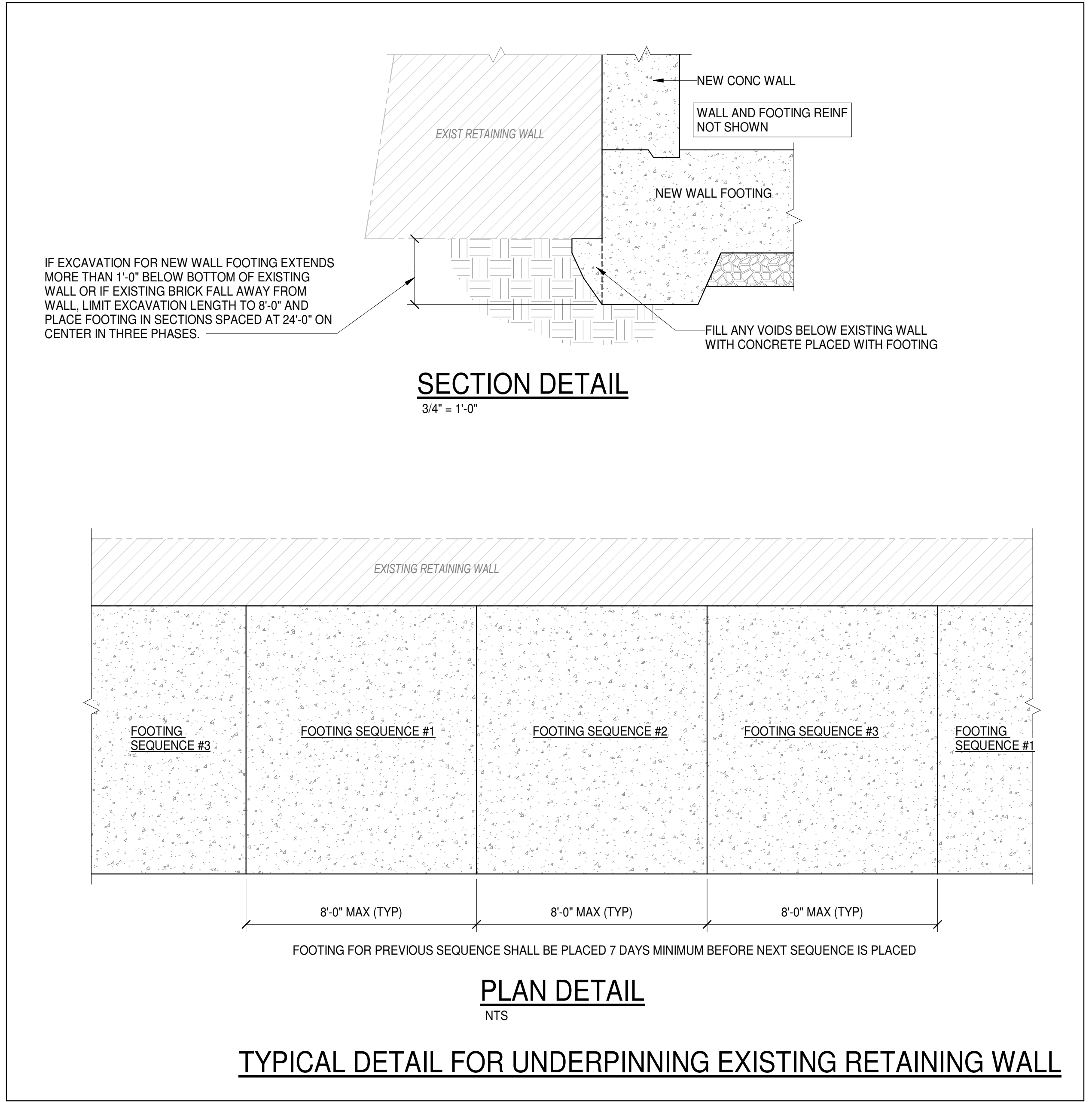


TYPICAL WALL FOOTING CONSTRUCTION JOINT



5 COURSE AMERICAN BOND TYP.

TYPICAL BRICK COURSING DETAIL FOR NEW BRICK VENEER



TYPICAL DETAIL FOR UNDERPINNING EXISTING RETAINING WALL



ST. JOHN'S CHURCH CEMETERY WALL RENOVATION
 CITY OF RICHMOND, VIRGINIA

PHASE I
 24TH STREET WALL RENOVATION

REVISIONS:

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 CITY OF RICHMOND,
 VIRGINIA

PHASE I
 24TH STREET WALL
 RENOVATION

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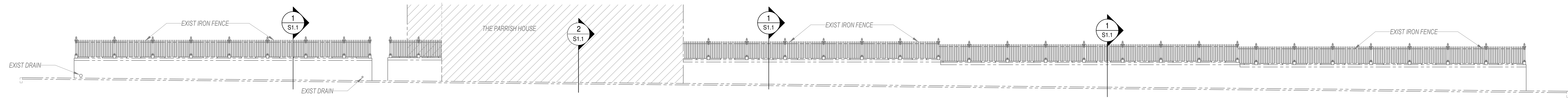
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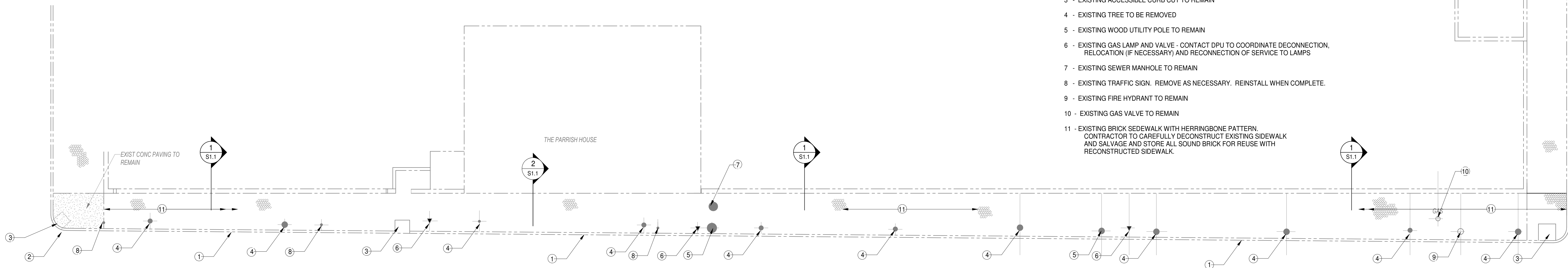
24TH STREET
 EXISTING/DEMO
 PLANS

S1.1

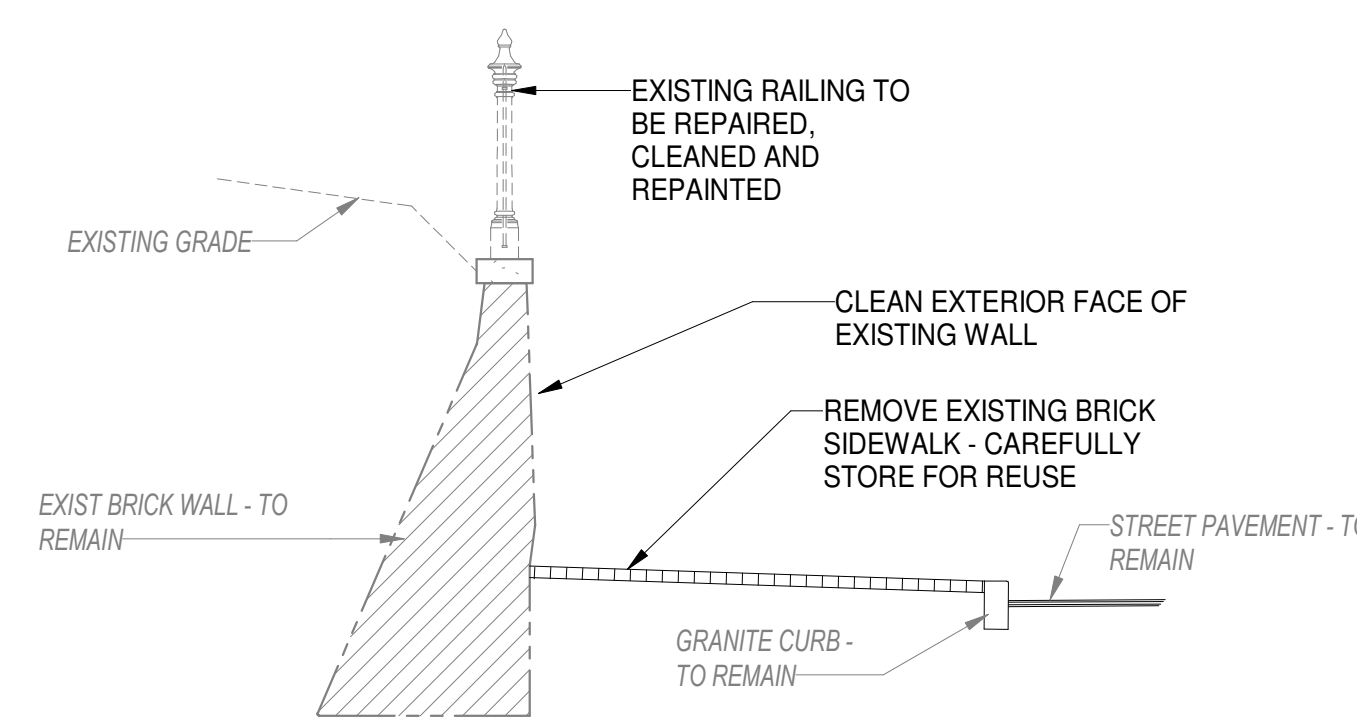
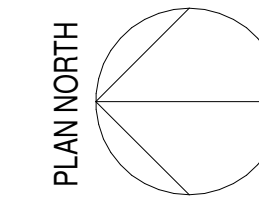


24TH STREET DEMOLITION ELEVATION
 1" = 10'-0"

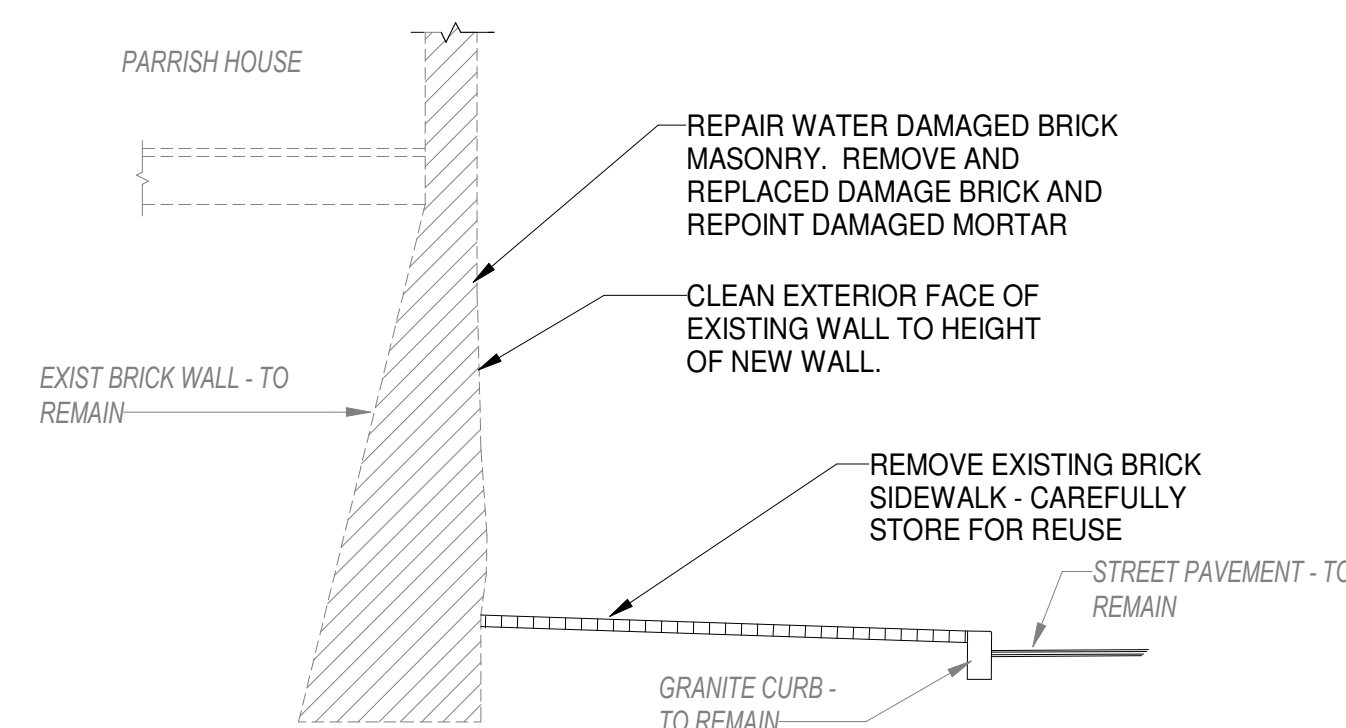
- 1 - EXISTING GRANITE CURB TO REMAIN
- 2 - EXISTING DROP INLET TO REMAIN
- 3 - EXISTING ACCESSIBLE CURB CUT TO REMAIN
- 4 - EXISTING TREE TO BE REMOVED
- 5 - EXISTING WOOD UTILITY POLE TO REMAIN
- 6 - EXISTING GAS LAMP AND VALVE - CONTACT DPU TO COORDINATE DECONNECTION, RELOCATION (IF NECESSARY) AND RECONNECTION OF SERVICE TO LAMPS
- 7 - EXISTING SEWER MANHOLE TO REMAIN
- 8 - EXISTING TRAFFIC SIGN. REMOVE AS NECESSARY. REINSTALL WHEN COMPLETE.
- 9 - EXISTING FIRE HYDRANT TO REMAIN
- 10 - EXISTING GAS VALVE TO REMAIN
- 11 - EXISTING BRICK SEDEWALK WITH HERRINGBONE PATTERN. CONTRACTOR TO CAREFULLY DECONSTRUCT EXISTING SIDEWALK AND SALVAGE AND STORE ALL SOUND BRICK FOR REUSE WITH RECONSTRUCTED SIDEWALK.



24 TH STREET DEMOLITION PLAN
 1" = 10'-0"



SECTION 1
 1/4" = 1'-0"



SECTION 2
 1/4" = 1'-0"



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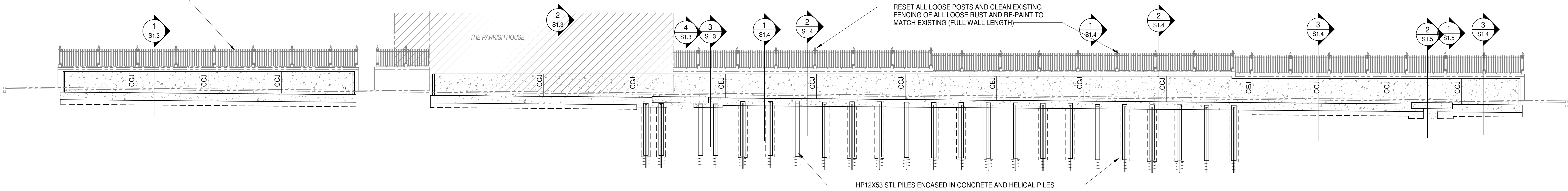
PERMIT SET

**24TH STREET NEW
 WORK PLAN AND
 ELEVATION**

S1.2

RESET ALL LOOSE POSTS AND CLEAN EXISTING FENCING OF ALL LOOSE RUST AND RE-PAINT TO MATCH EXISTING (FULL WALL LENGTH)

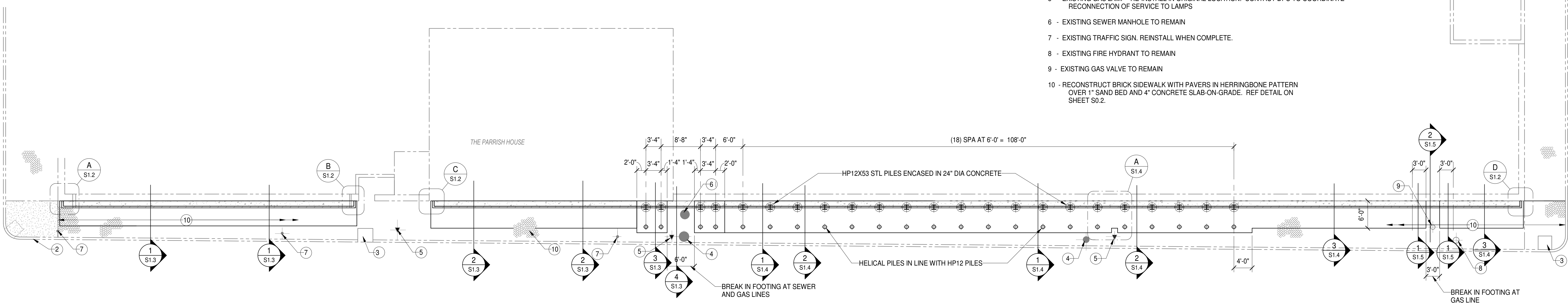
RESET ALL LOOSE POSTS AND CLEAN EXISTING FENCING OF ALL LOOSE RUST AND RE-PAINT TO MATCH EXISTING (FULL WALL LENGTH)



24TH STREET - NEW WORK ELEVATION

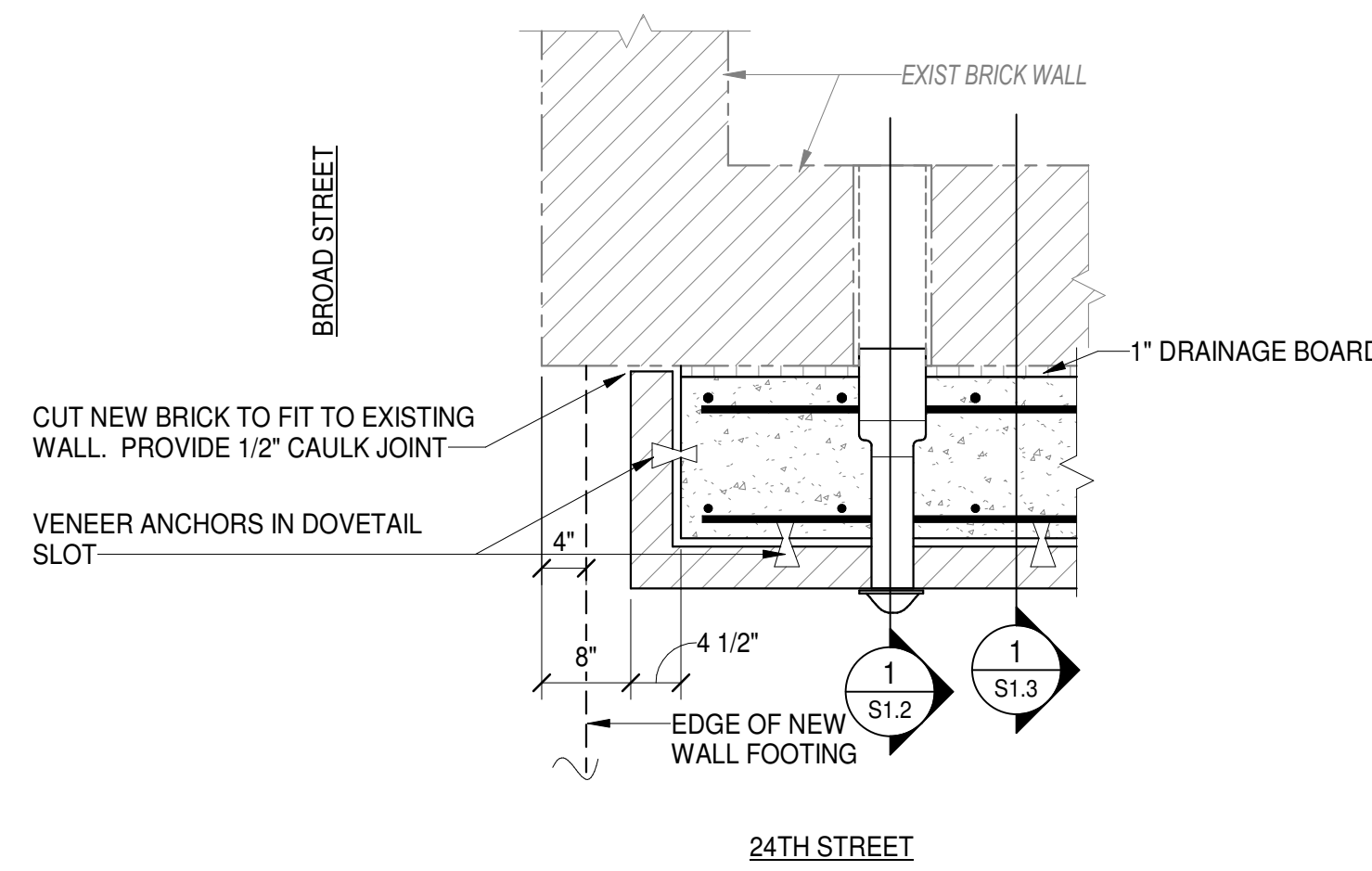
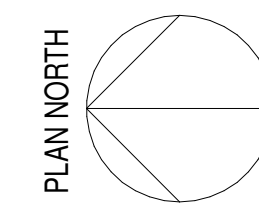
1" = 10'-0"

- EXISTING GRANITE CURB TO REMAIN
- EXISTING DROP INLET TO REMAIN
- RESTORE ACCESSIBLE CURB CUT TO ORIGINAL CONDITION.
- EXISTING WOOD UTILITY POLE TO REMAIN
- EXISTING GAS LAMP - RE-INSTALL IN ORIGINAL LOCATION. CONTACT DPU TO COORDINATE RECONNECTION OF SERVICE TO LAMPS
- EXISTING SEWER MANHOLE TO REMAIN
- EXISTING TRAFFIC SIGN. REINSTALL WHEN COMPLETE.
- EXISTING FIRE HYDRANT TO REMAIN
- EXISTING GAS VALVE TO REMAIN
- RECONSTRUCT BRICK SIDEWALK WITH PAVERS IN HERRINGBONE PATTERN OVER 1" SAND BED AND 4" CONCRETE SLAB-ON-GRADE. REF DETAIL ON SHEET S0.2.

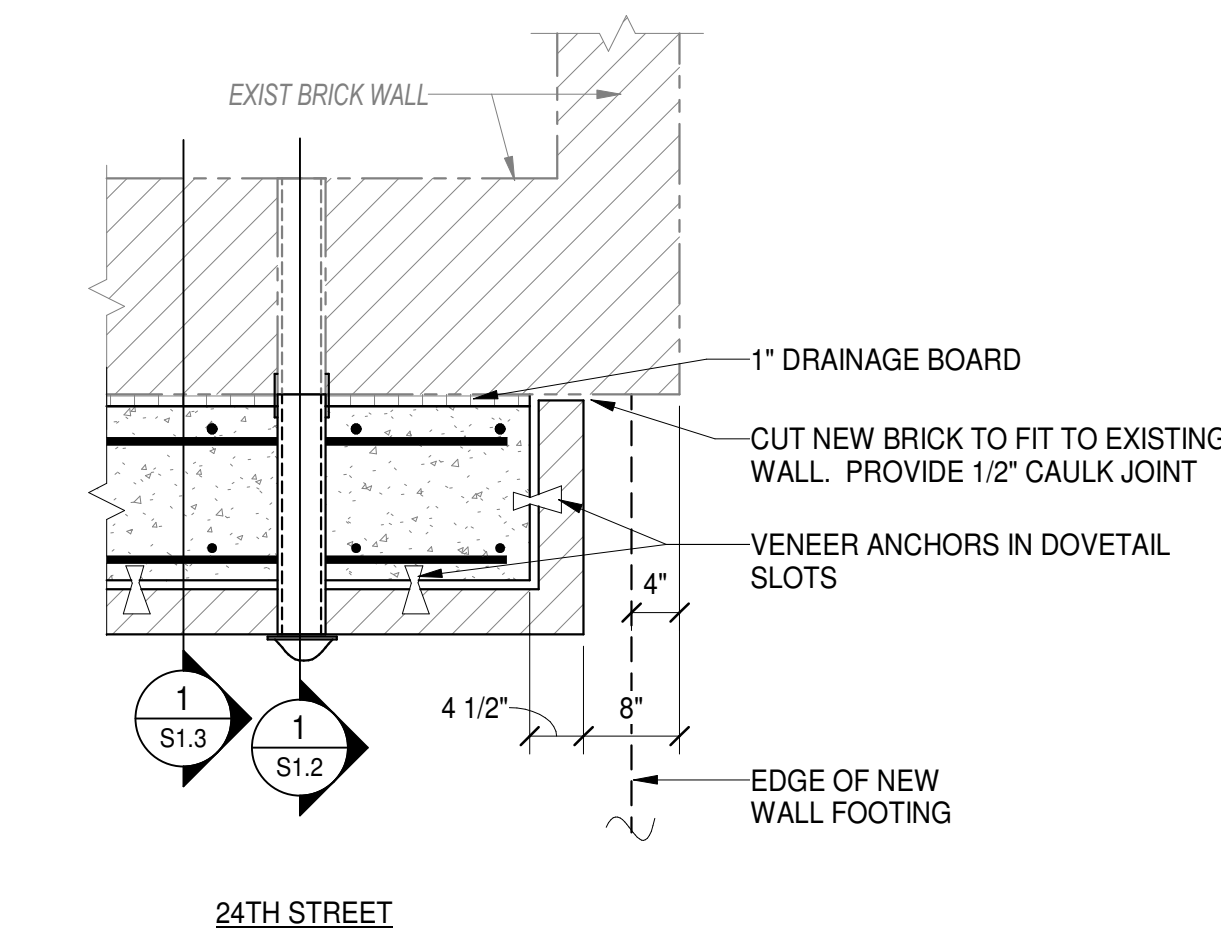


24 TH STREET - NEW WORK PLAN

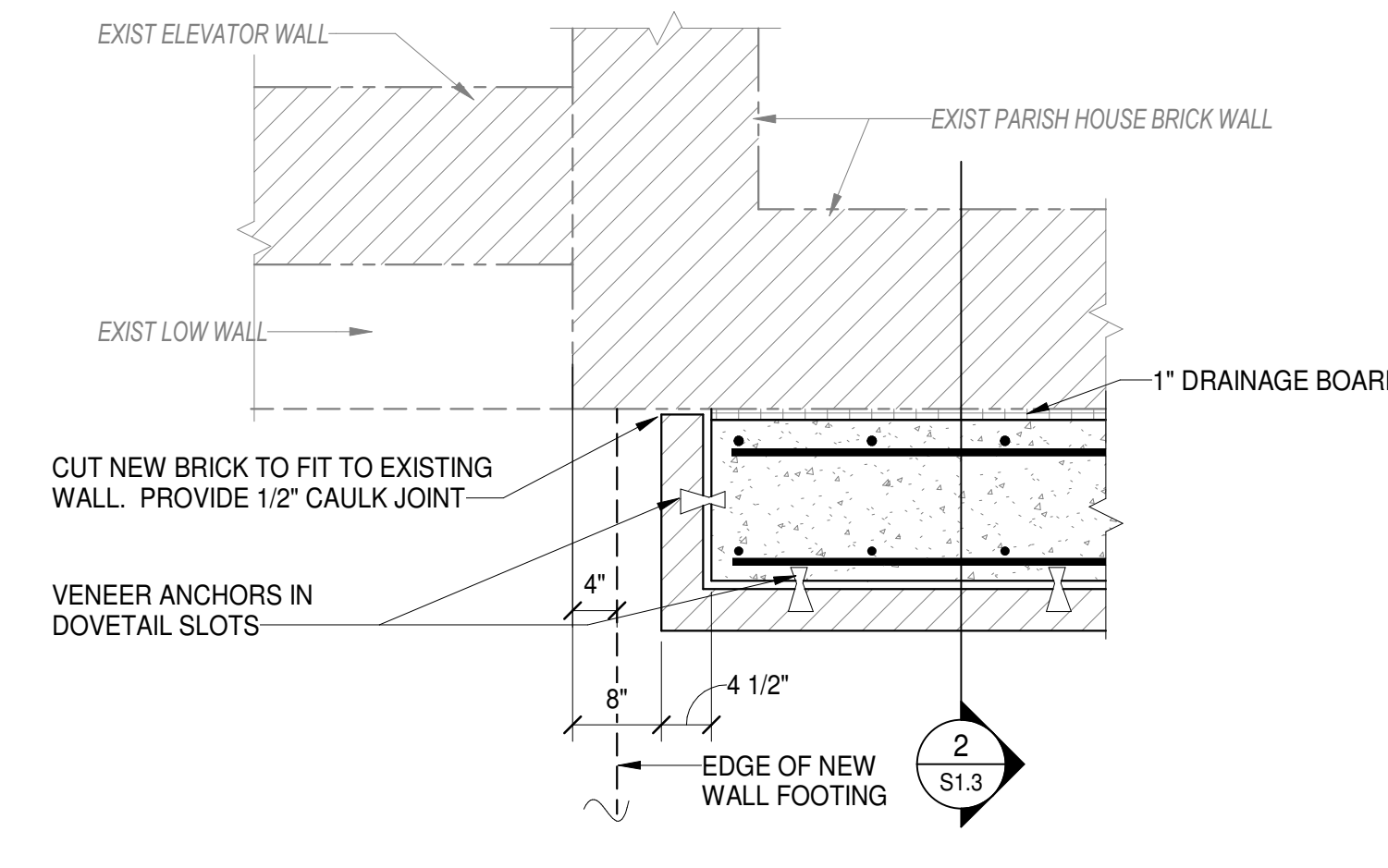
1" = 10'-0"



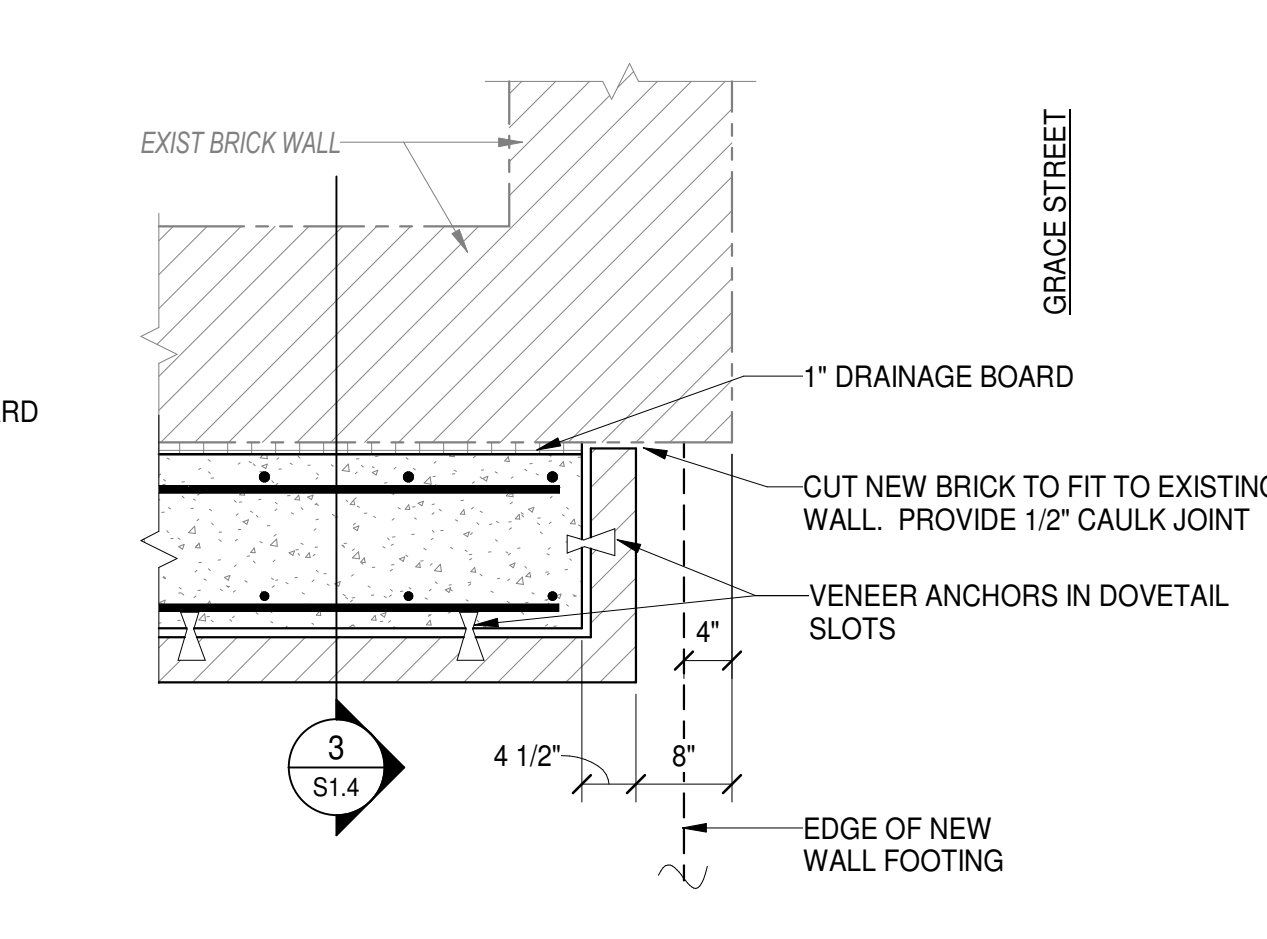
DETAIL A
 3/4" = 1'-0"



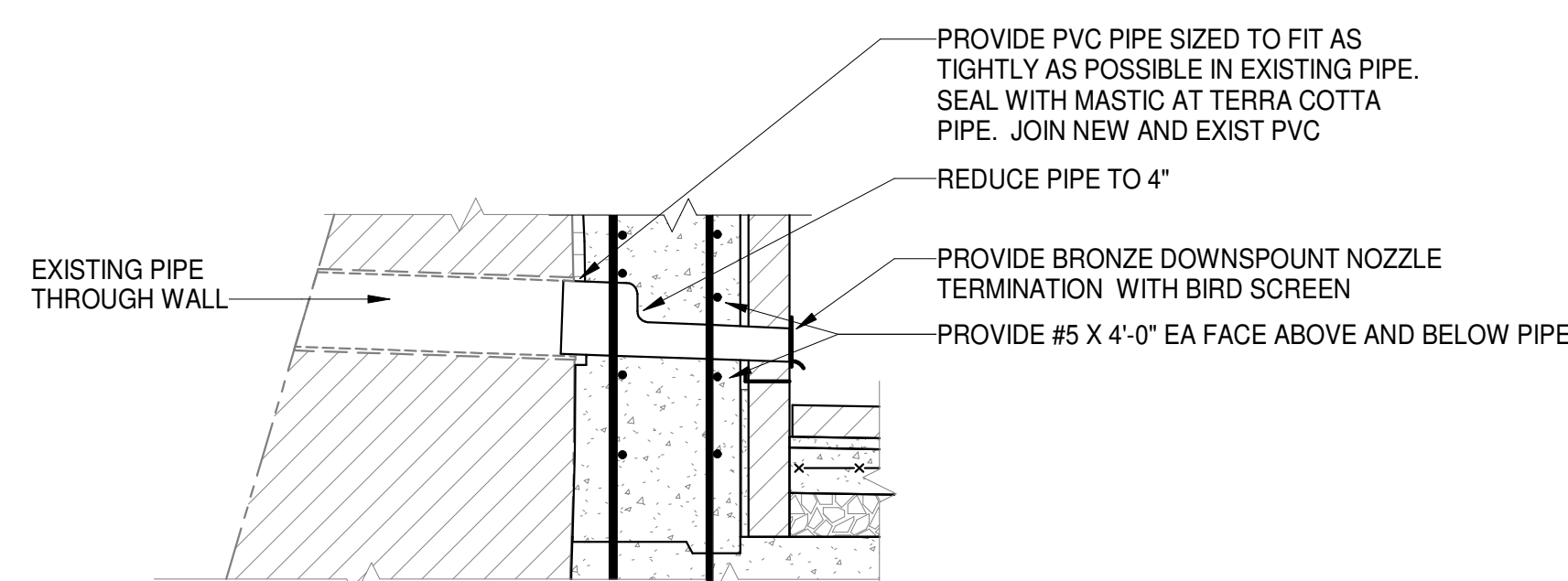
DETAIL B
 3/4" = 1'-0"



DETAIL C
 3/4" = 1'-0"



DETAIL D
 3/4" = 1'-0"



DETAIL AT 4" OR LARGER EXISTING DRAIN PIPE THROUGH WALL

SECTION 1
 3/4" = 1'-0"



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**PHASE I
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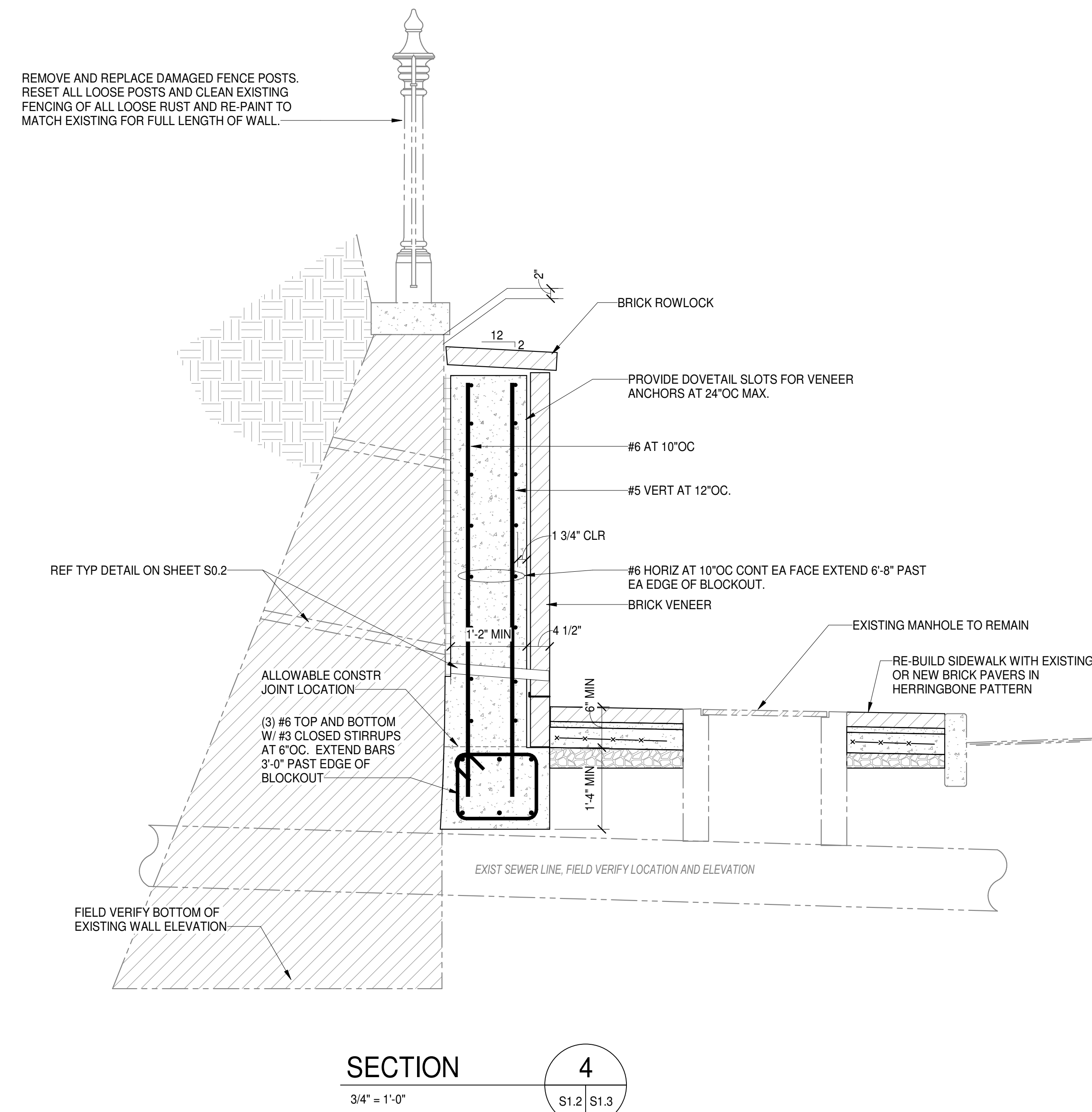
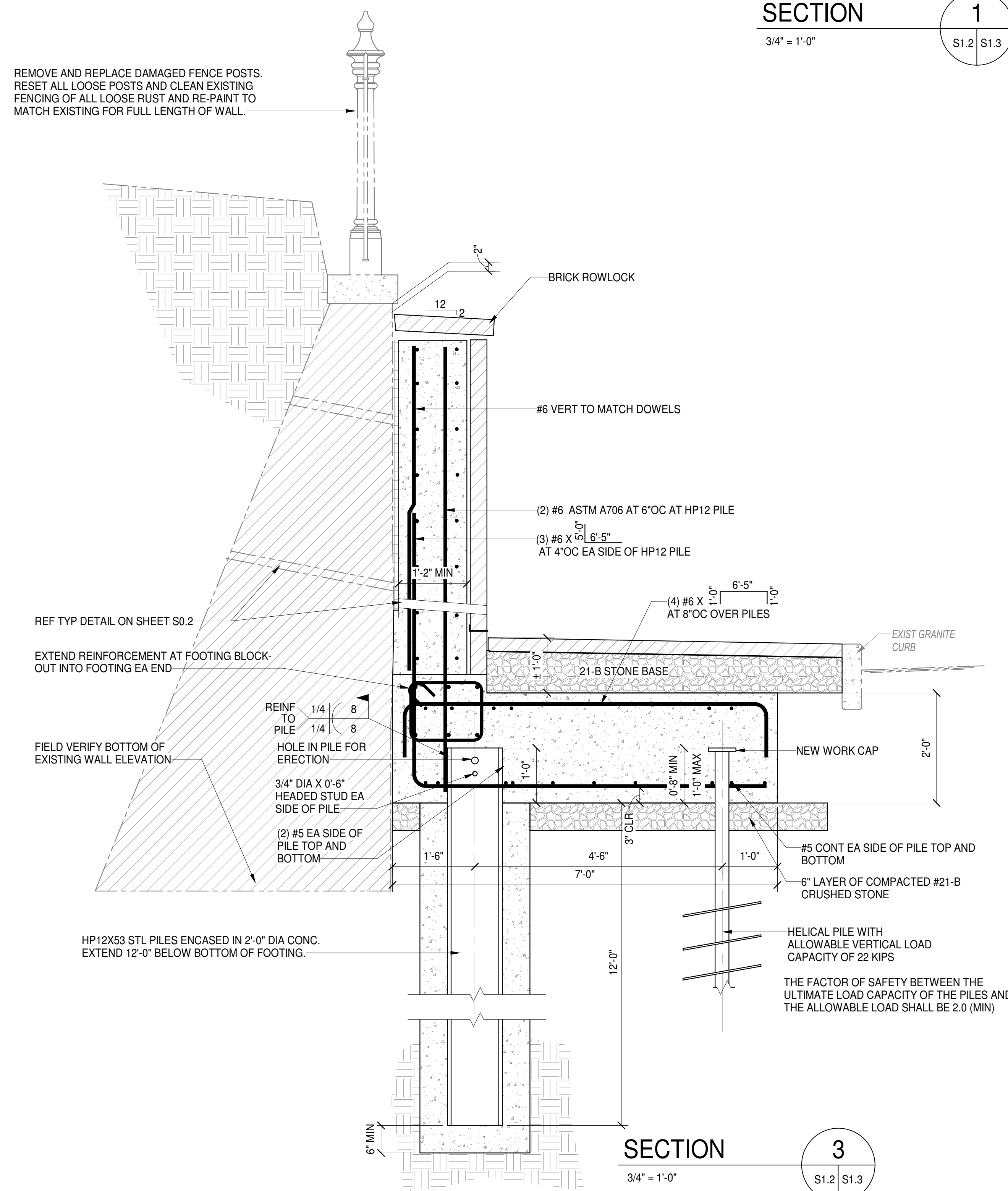
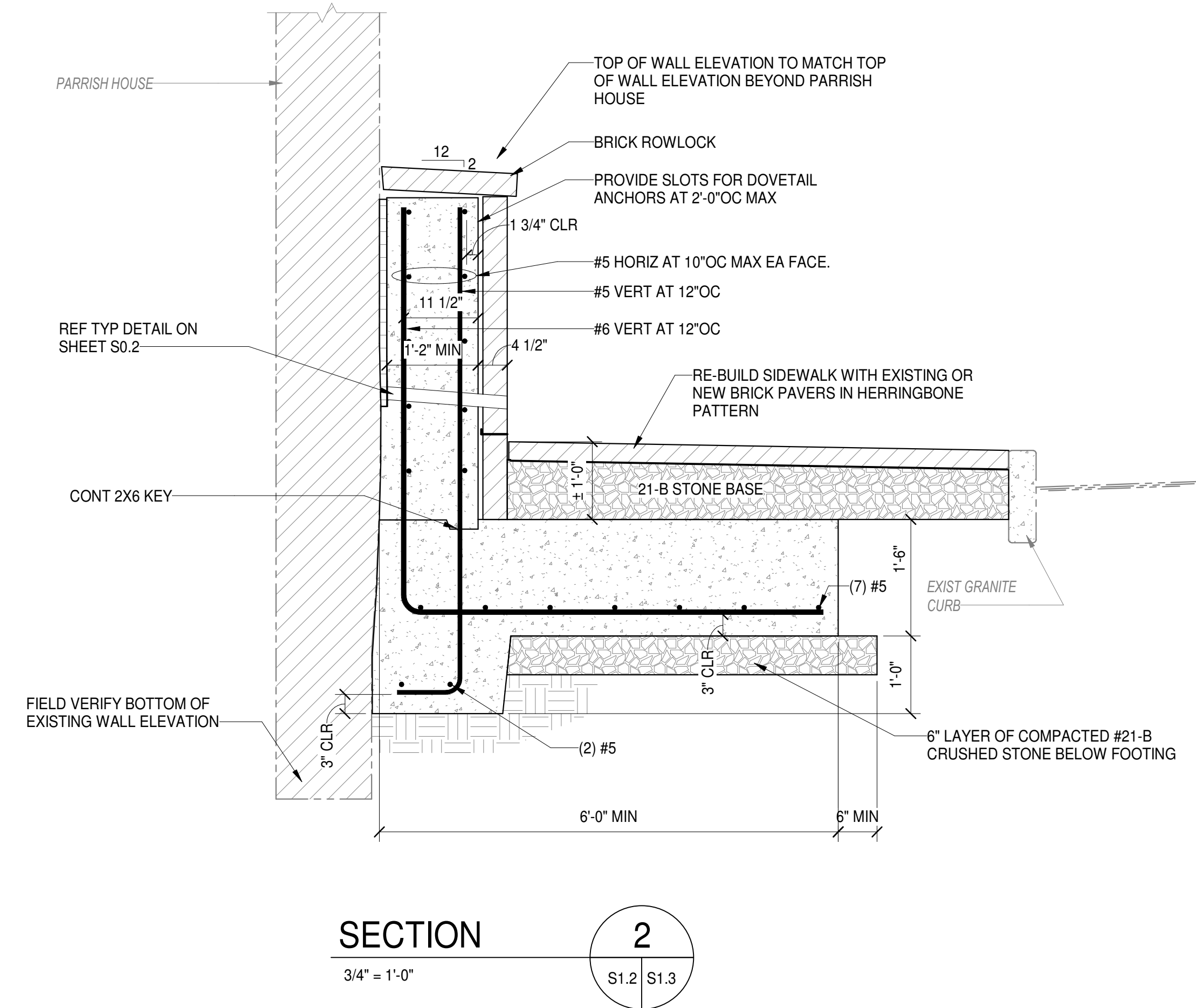
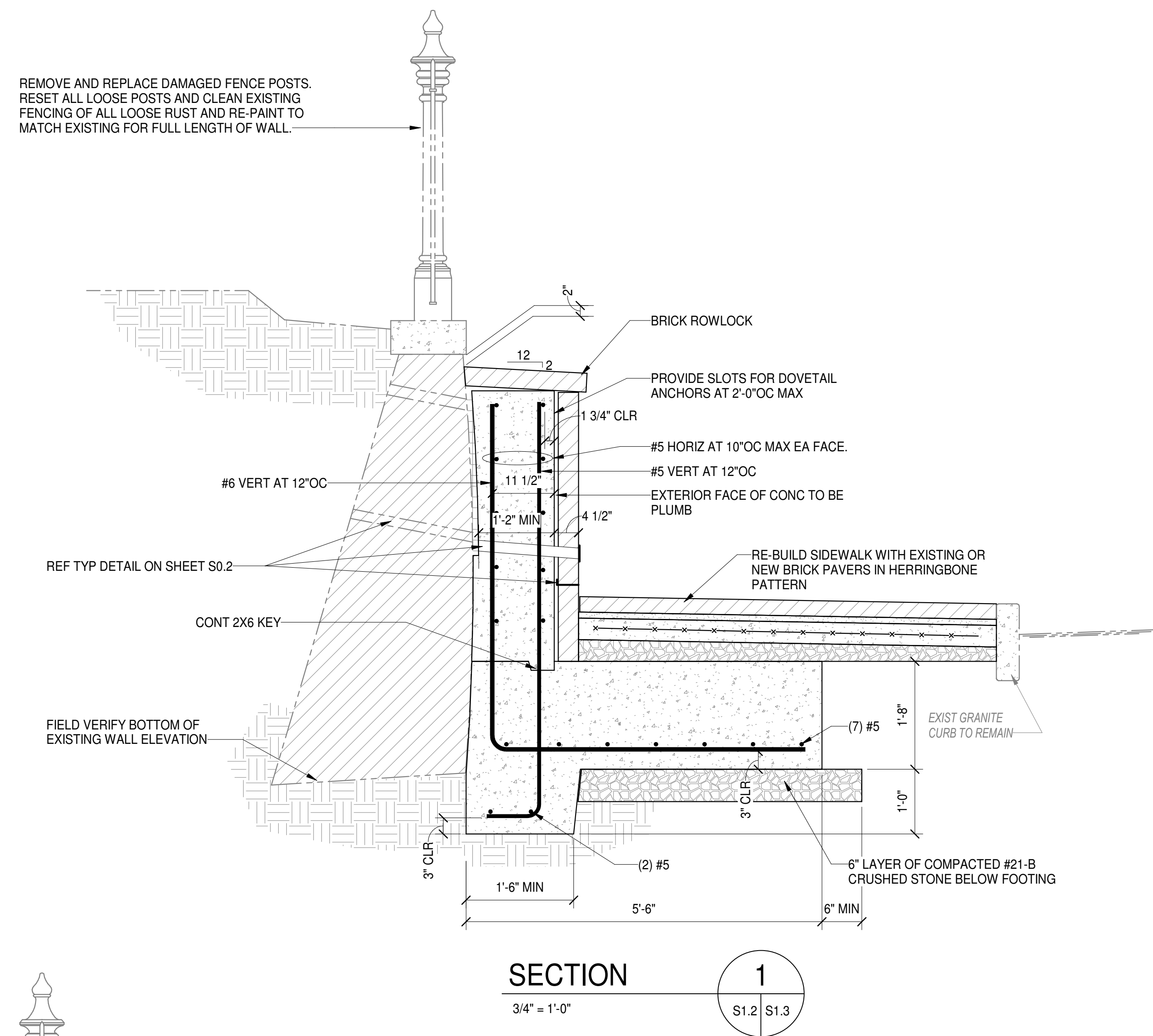
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24TH STREET - SECTIONS AND DETAILS

S1.3





ST. JOHN'S CHURCH CEMETERY WALL RENOVATION
 CITY OF RICHMOND, VIRGINIA

PHASE I
 24TH STREET WALL RENOVATION

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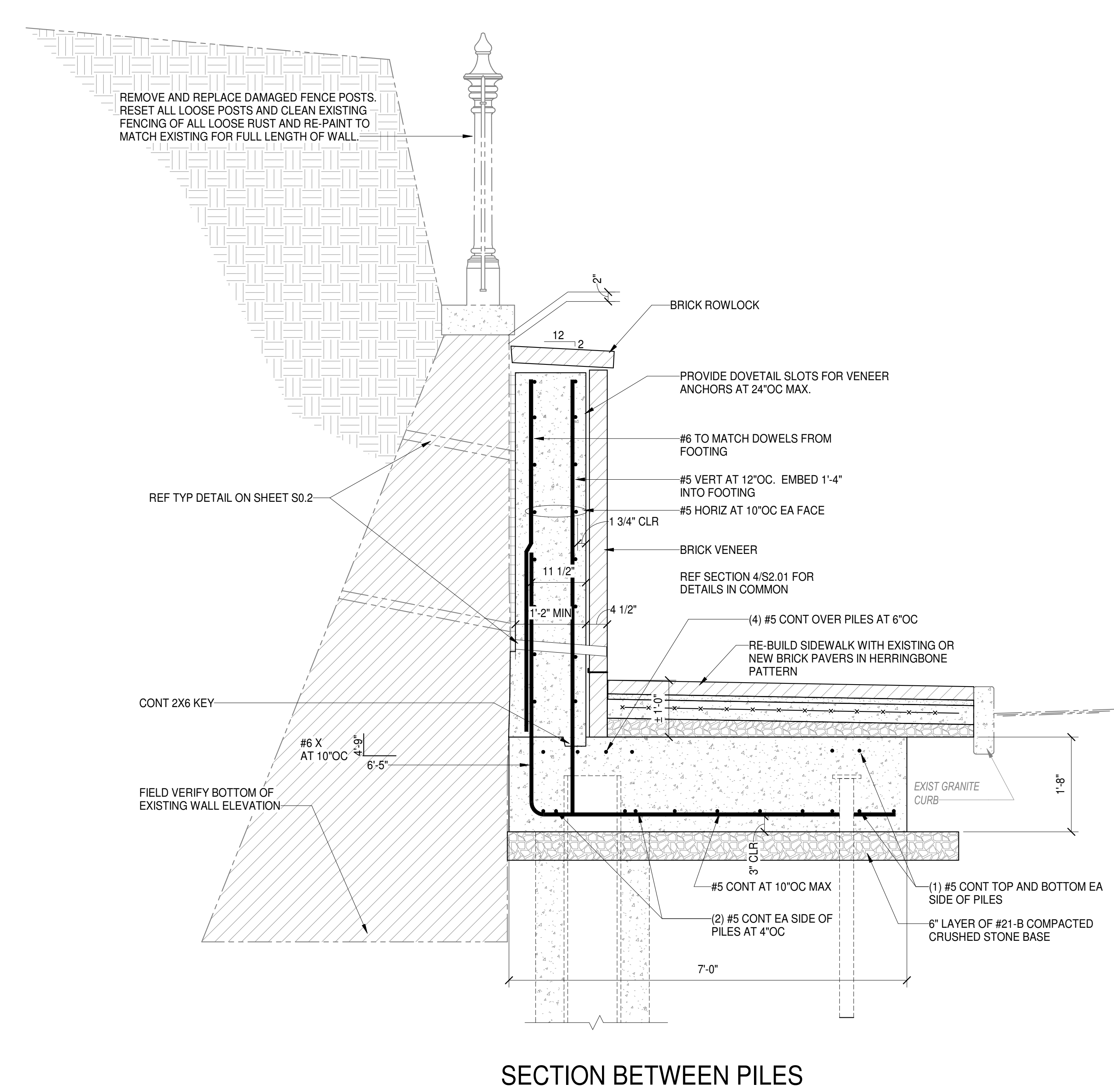
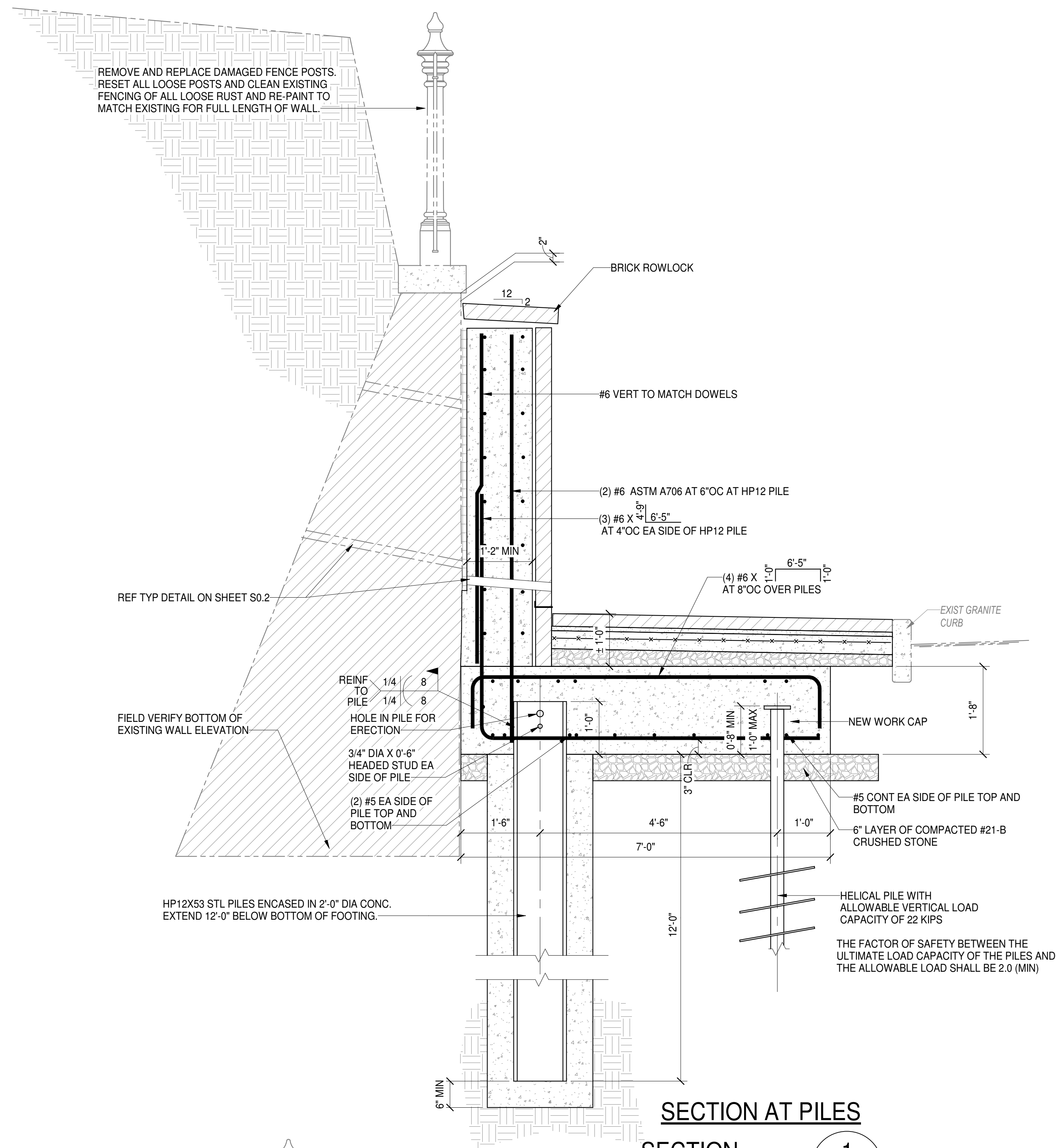
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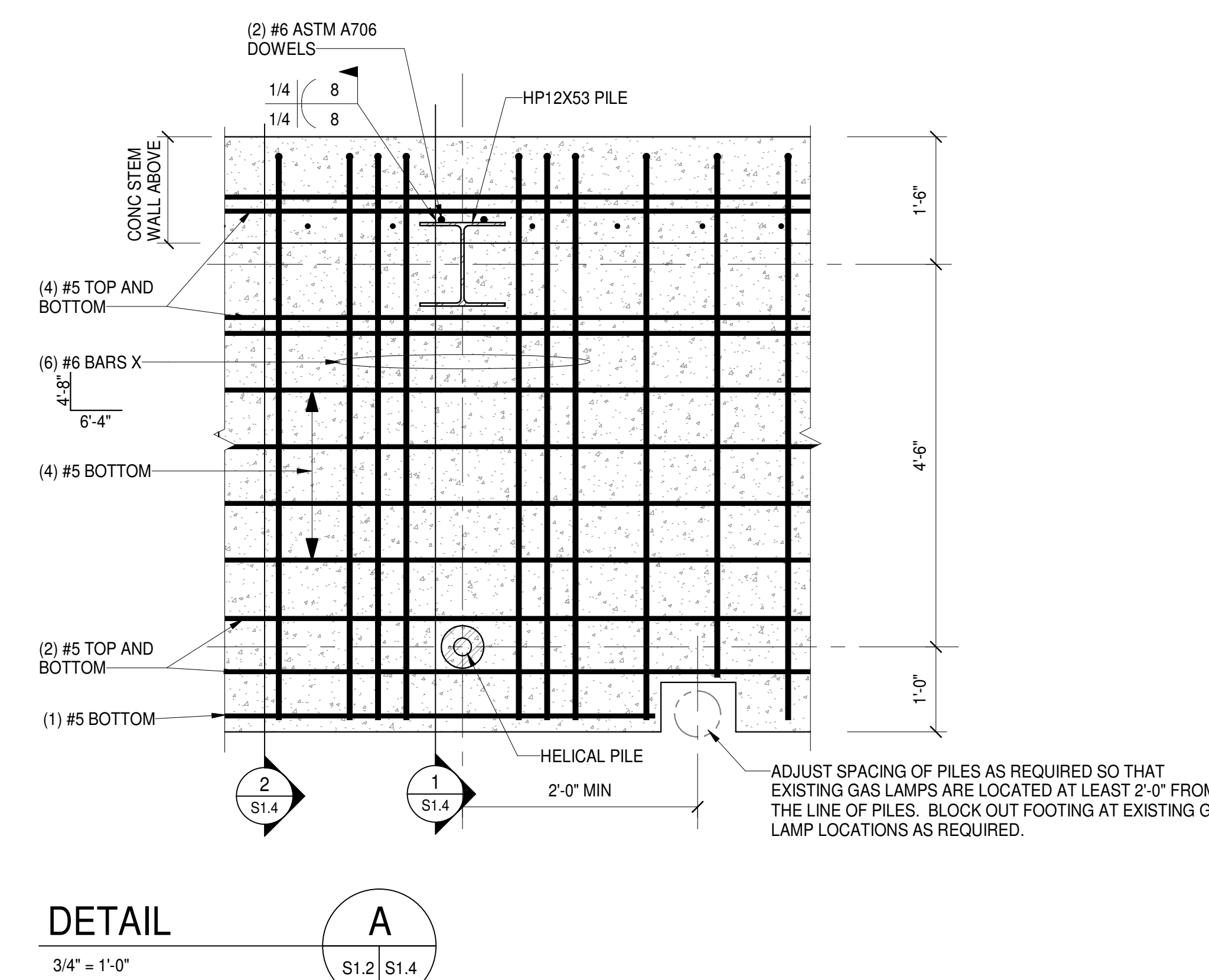
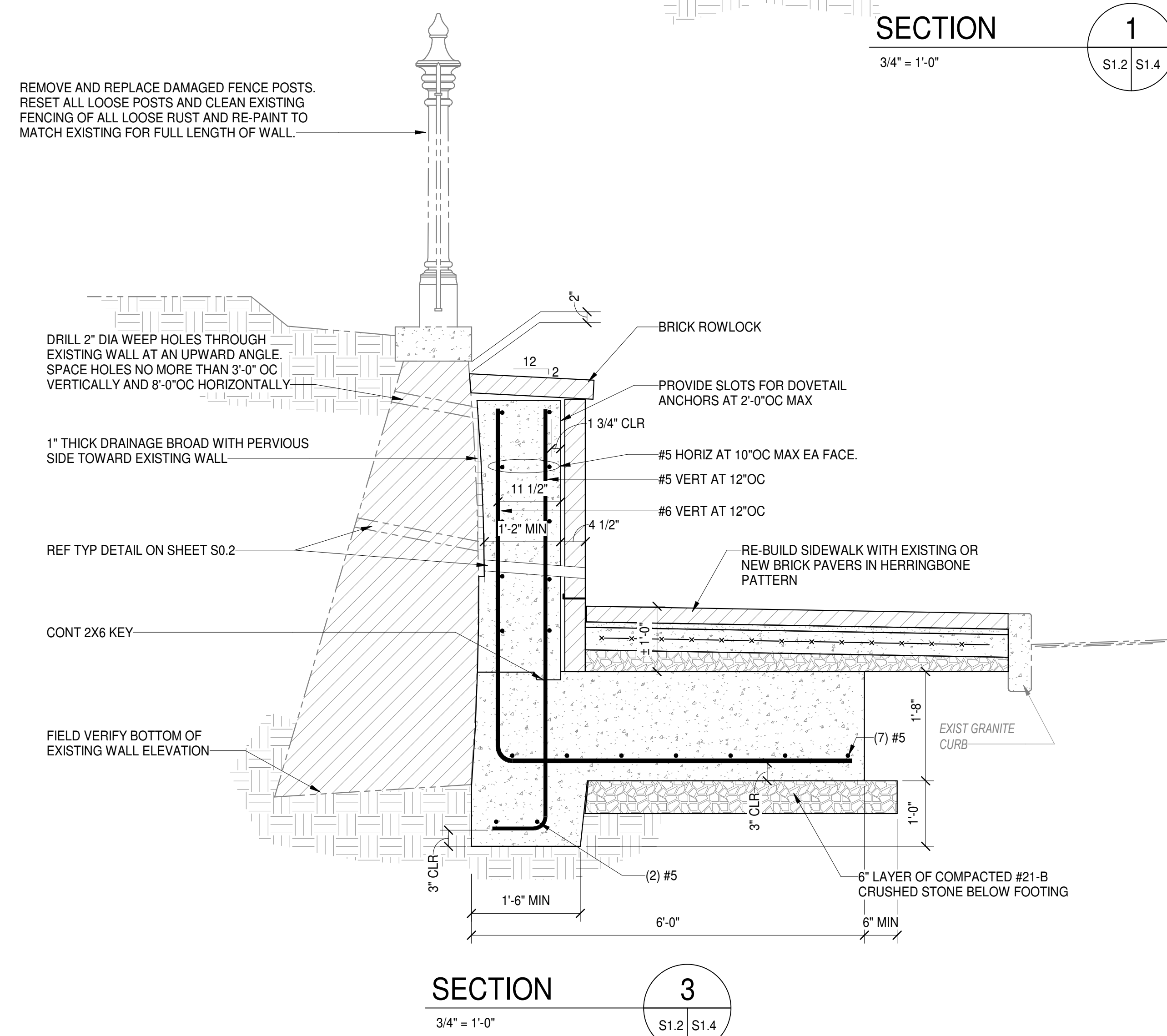
24TH STREET - SECTIONS AND DETAILS

S1.4



SECTION BETWEEN PILES

SECTION 2
 3/4" = 1'-0"



DETAIL A
 3/4" = 1'-0"



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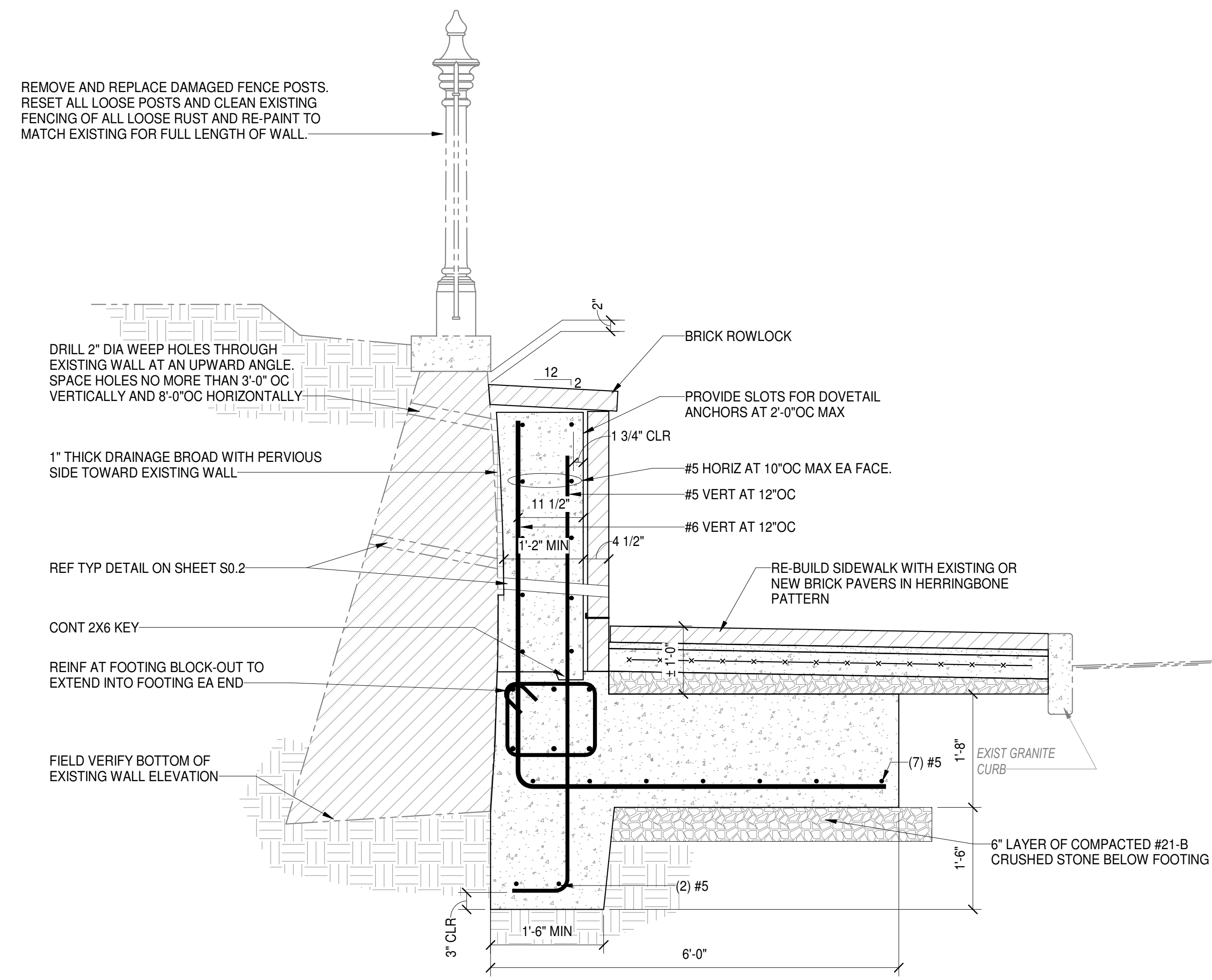
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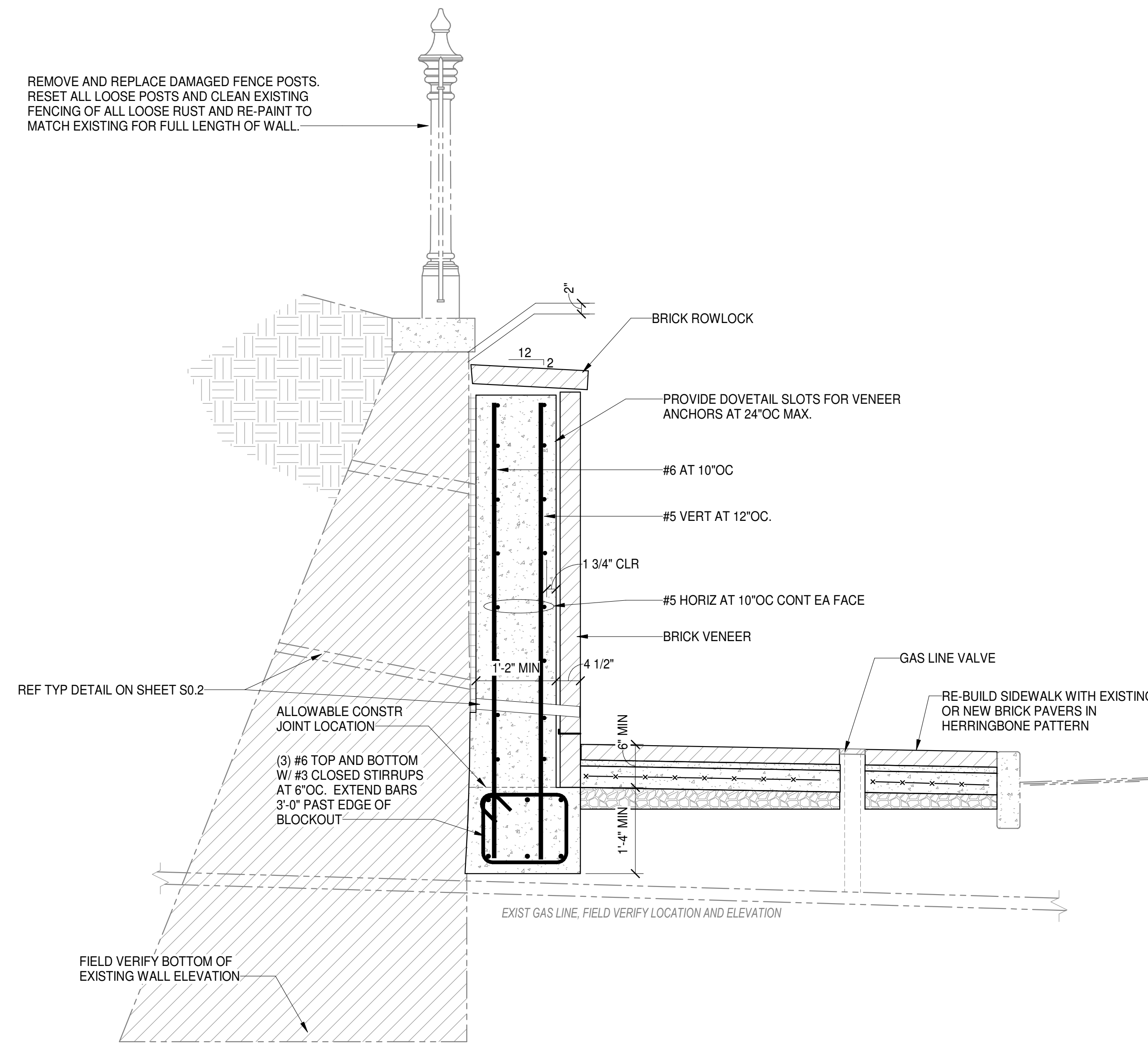
PERMIT SET

24TH STREET -
 SECTIONS AND
 DETAILS

S1.5



SECTION 1
 3/4" = 1'-0"
 S1.2 S1.5



SECTION 2
 3/4" = 1'-0"
 S1.2 S1.5