

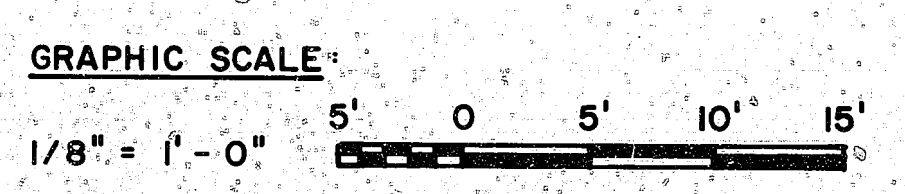
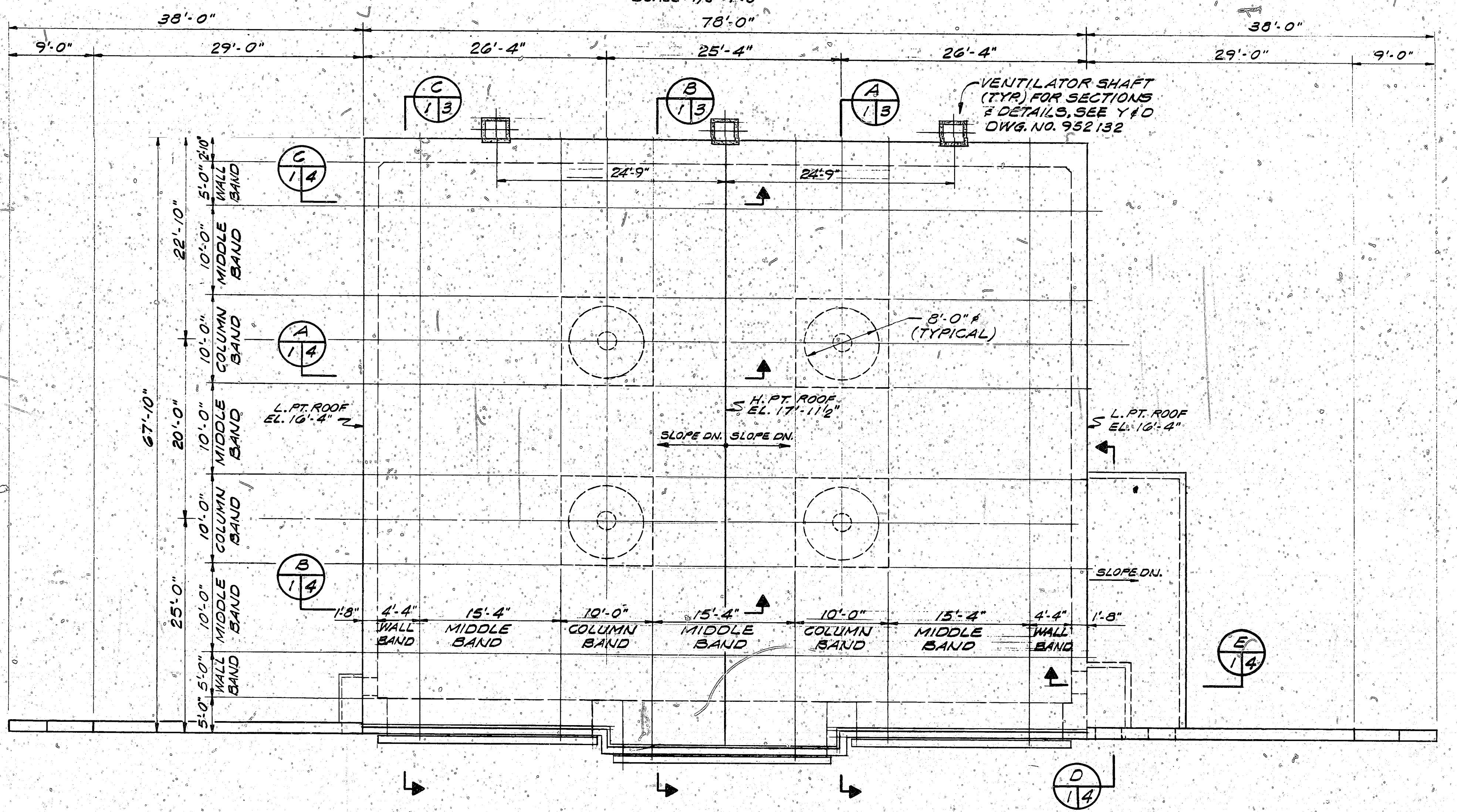
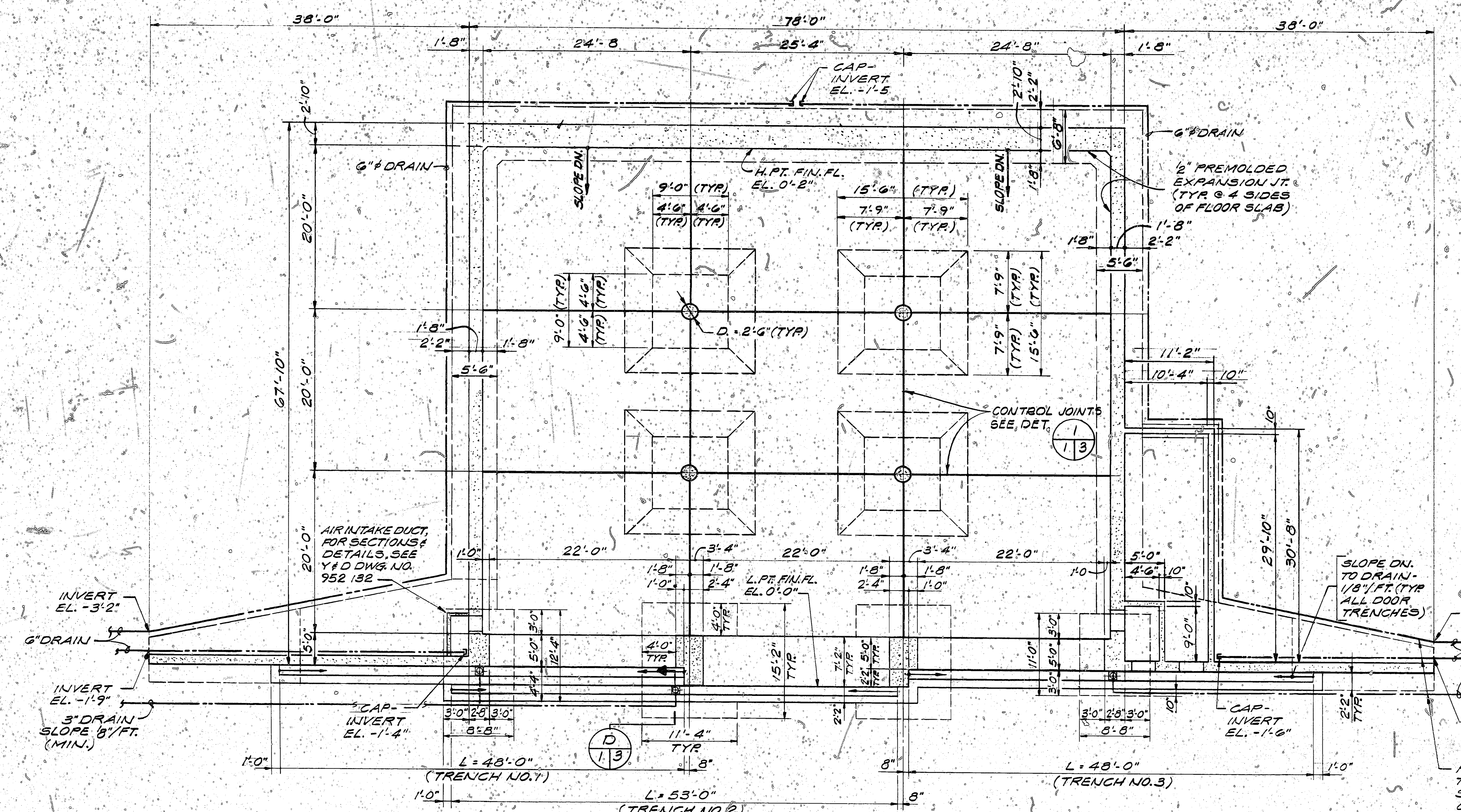
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GENERAL NOTES:

MATERIALS AND CONSTRUCTION

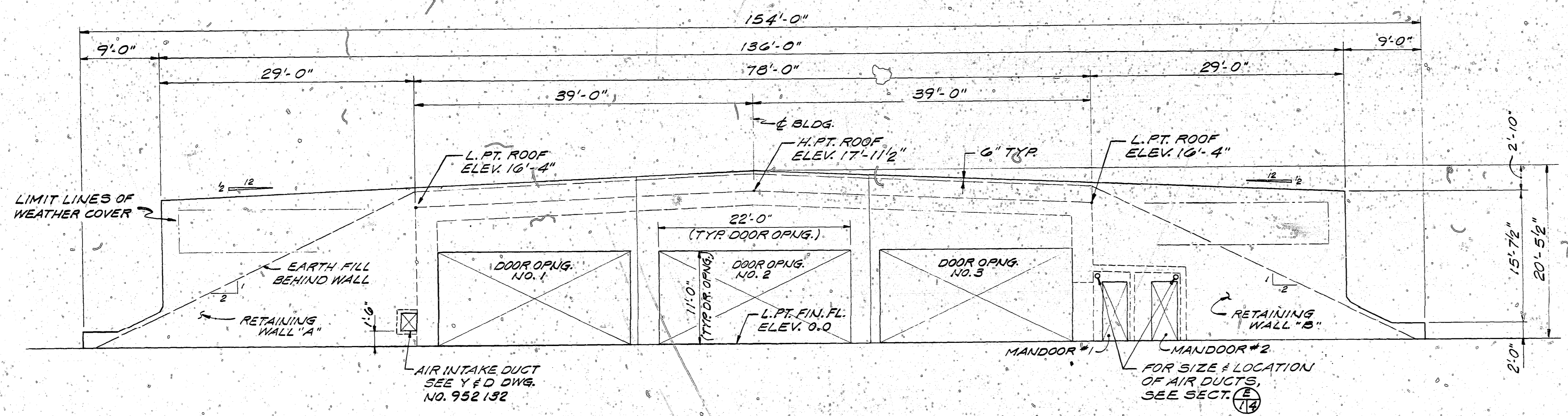
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'_c = 4,000$ PSI AT 28 DAYS.
 - ALL REINF. BARS SHALL CONFORM TO THE SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 40.
 - CONCRETE AGGREGATE SHALL HAVE A MAXIMUM SIZE OF 1"
 - ALL REINFORCING BARS SHALL BE CONTINUOUS IN ANY ONE DIRECTION EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS.
 - EXCEPT AS NOTED, ALL CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO THE LATEST STANDARDS OF THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 318), AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)
 - EXCEPT FOR WELDED WIRE FABRIC, NO WELDING OF REINF. BARS SHALL BE PERMITTED.
 - ALL STRUCTURAL STEEL, METAL DOORS, EQUIPMENT ETC. SHALL BE CONNECTED TO GROUND BUSES WITH #2 COPPER GROUND CABLE.
 - STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL CARBON STEEL, ASTM DESIGNATION A36.
 - ALL STRUCTURAL STEEL PLATES SHALL CONFORM TO THE SPECIFICATION FOR HOT-ROLLED, CARBON STEEL SHEET & STRIP, STRUCTURAL QUALITY, ASTM DESIGNATION A570.
 - METAL ROOFING, SIDING AND FLASHINGS SHALL CONFORM TO THE SPECIFICATION FOR THE DESIGN OF LIGHT GAGE COLD-FORMED STRUCTURAL STEEL MEMBERS, LATEST EDITION
 - FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION
 - WELDING FOR STRUCTURAL STEEL SHALL CONFORM TO THE STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION
 - BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE SPECIFICATION FOR LOW CARBON STEEL THREADED STANDARD FASTENERS, ASTM DESIGNATION A307, GRADE A, AND HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS, ASTM DESIGNATION A 305. ALL BOLTS SHALL HAVE THREADS EXCLUDED FROM THE SHEAR PLANE.
 - ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH THE PROCEDURE GIVEN IN DOOR AND OPERATING NOTES OF SHEET 7 OF 8.
 - TOP 6 INCHES OF SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM STANDARD D1557
 - SECTION/ELEV. IDENT. LETTER:

| | | |
|---|---|---|
| A | 1 | 2 |
| B | 1 | 2 |
| C | 1 | 2 |
| D | 1 | 2 |
| E | 1 | 2 |
- DESIGN LOADS:**
- BLAST LOAD - BASED ON INTERMAGAZINE SEPARATION DISTANCES FOR A QUANTITY (V) OF H.E. EQUAL TO 350,000 LBS., AS FOLLOWS:
 - SIDE TO SIDE - $1.25 W^{1/3}$
 - FRONT TO BACK - $2.0 W^{1/3}$
 - ROOF LIVE LOAD (DUE TO TRACTOR OR MOWER) - 100 PSF
 - ROOF DEAD LOAD (2 FT. EARTH FILL) - 200 PSF
 - FLOOR LIVE LOAD - 2000 PSF
 - ASSUMED SOIL BEARING PRESSURE - 4000 PSF
 - ASSUMED DYNAMIC RESPONSE (SOIL BEARING) - 2.5
 - ASSUMED LATERAL SOIL PRESSURE COEF. (K) - 0.53
 - ASSUMED COEF. OF FRICTION (CONCRETE ON SOIL) - 0.50
- THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE STRENGTH DESIGN METHOD OF BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND THE PROCEDURES AND CRITERIA OF NAVFAC P-397 MANUAL "STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS".
 - THESE DRAWINGS SUPERSEDE Y AND D DRAWING NUMBERS 952127 THROUGH 952131 AND 952135 USE Y AND D DRAWING NUMBERS 952132 THROUGH 952134 FOR MECHANICAL AND ELECTRICAL REQUIREMENTS.

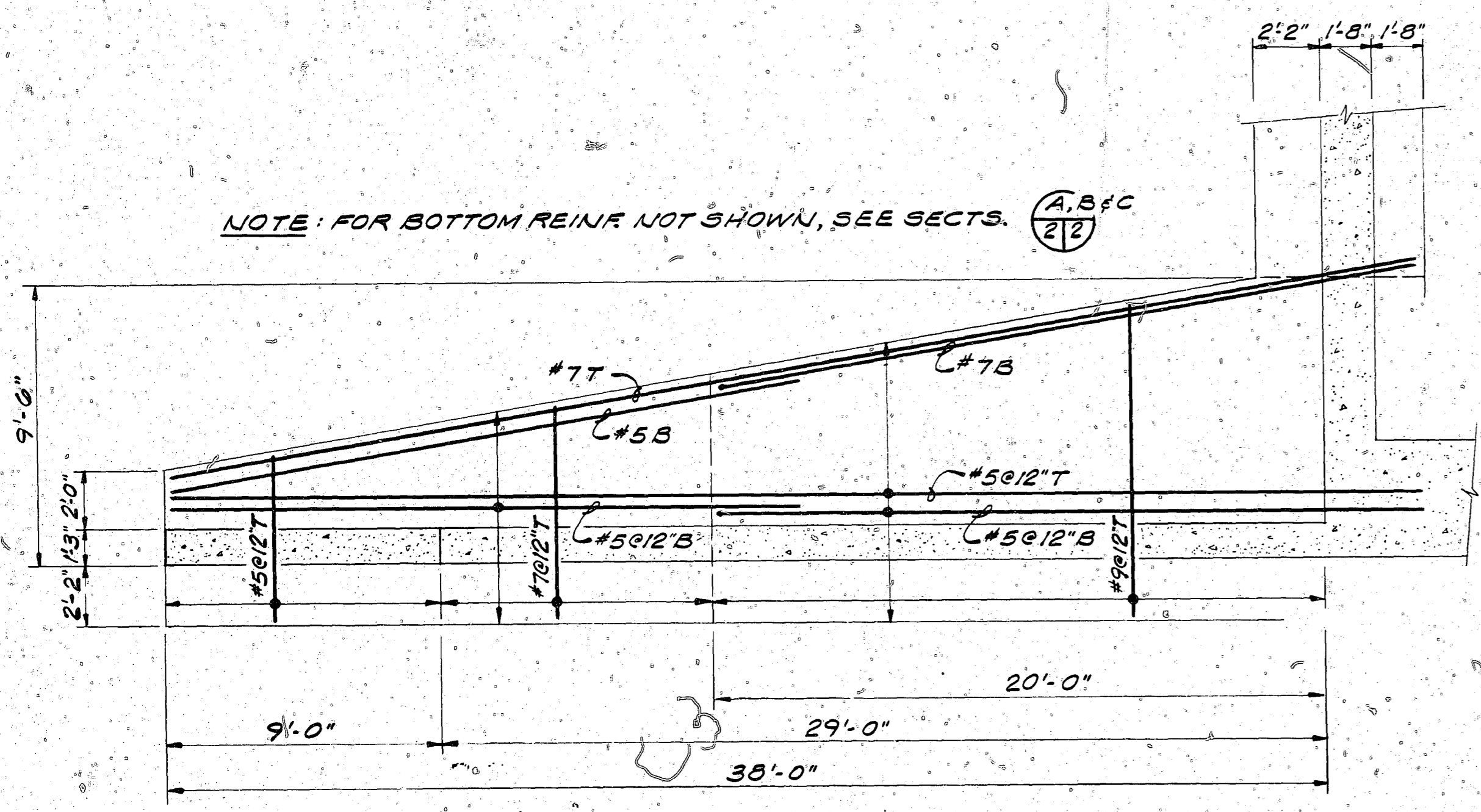


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| | AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER N.Y., N.Y. SUPV. ALD. CH ENGR J. ELTS FIRM MEMBER (TITLE) DATE NORTHAM DIVISION NAVFAC (S) 34651 NAVFAC P-397 MANUAL ND 34651 DIV. 11/1957 | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA 22332 |
| | BOX MAGAZINE TYPE B STANDARD | |
| FLOOR PLAN & ROOF PLAN | | APPROVED DATE 9/25/78 FOR COMMANDER NAVFAC |
| SIZE CODE IDENT NO. 80091 | | NAVFAC DRAWING NO. 1404018 SHEET 1 OF 2 |

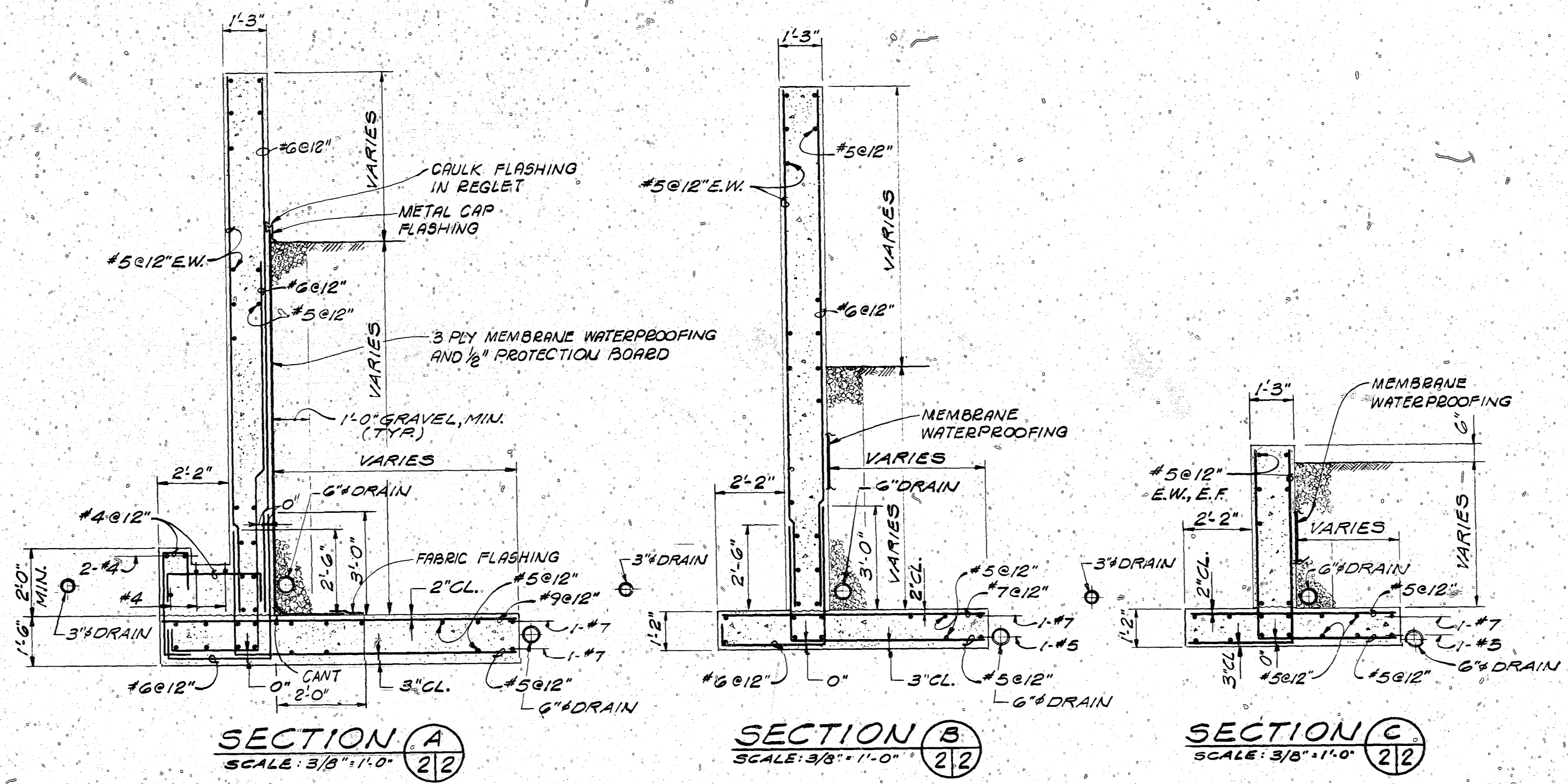
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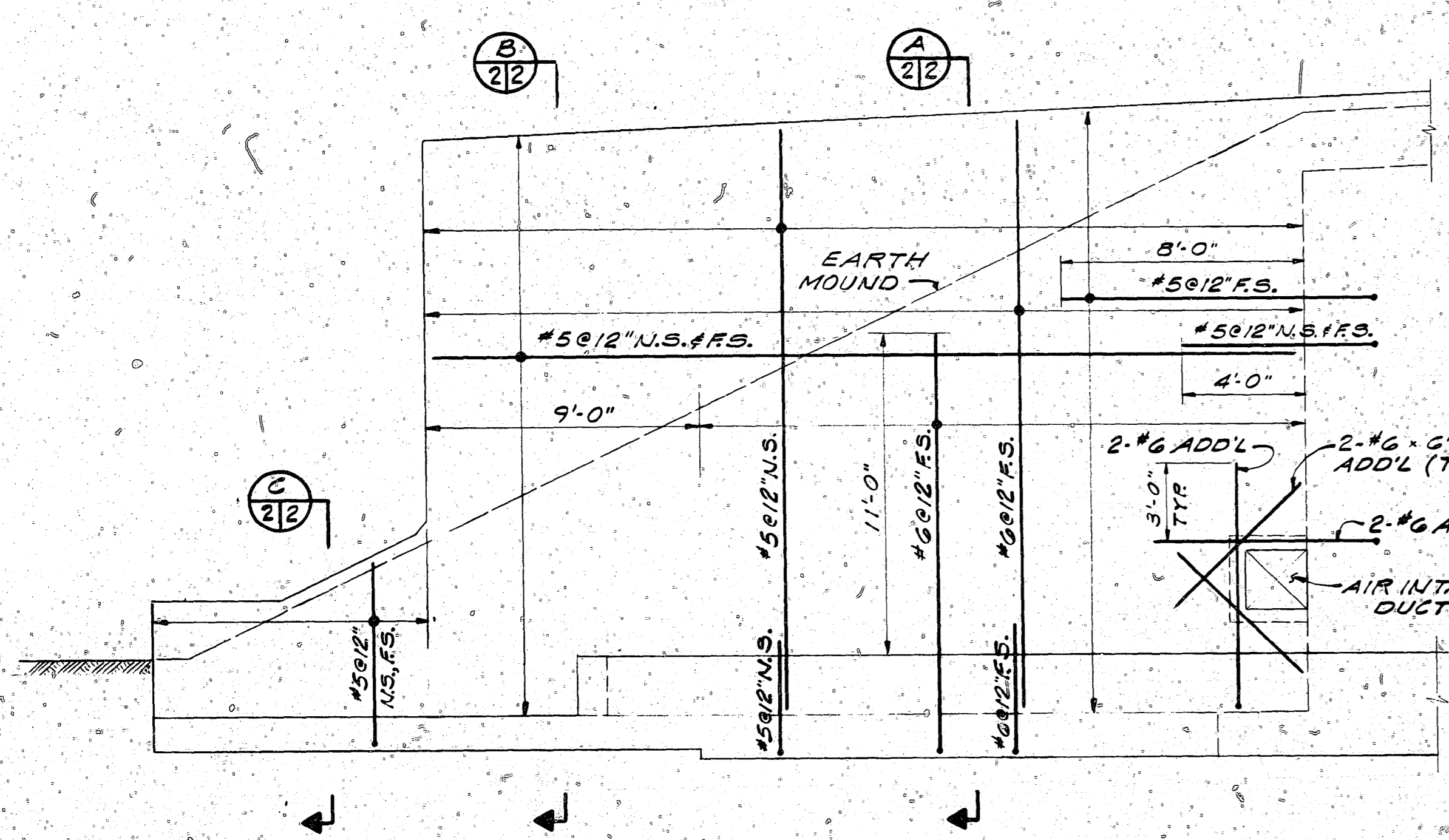
FRONT ELEVATION
SCALE: 1/8" = 1'-0"



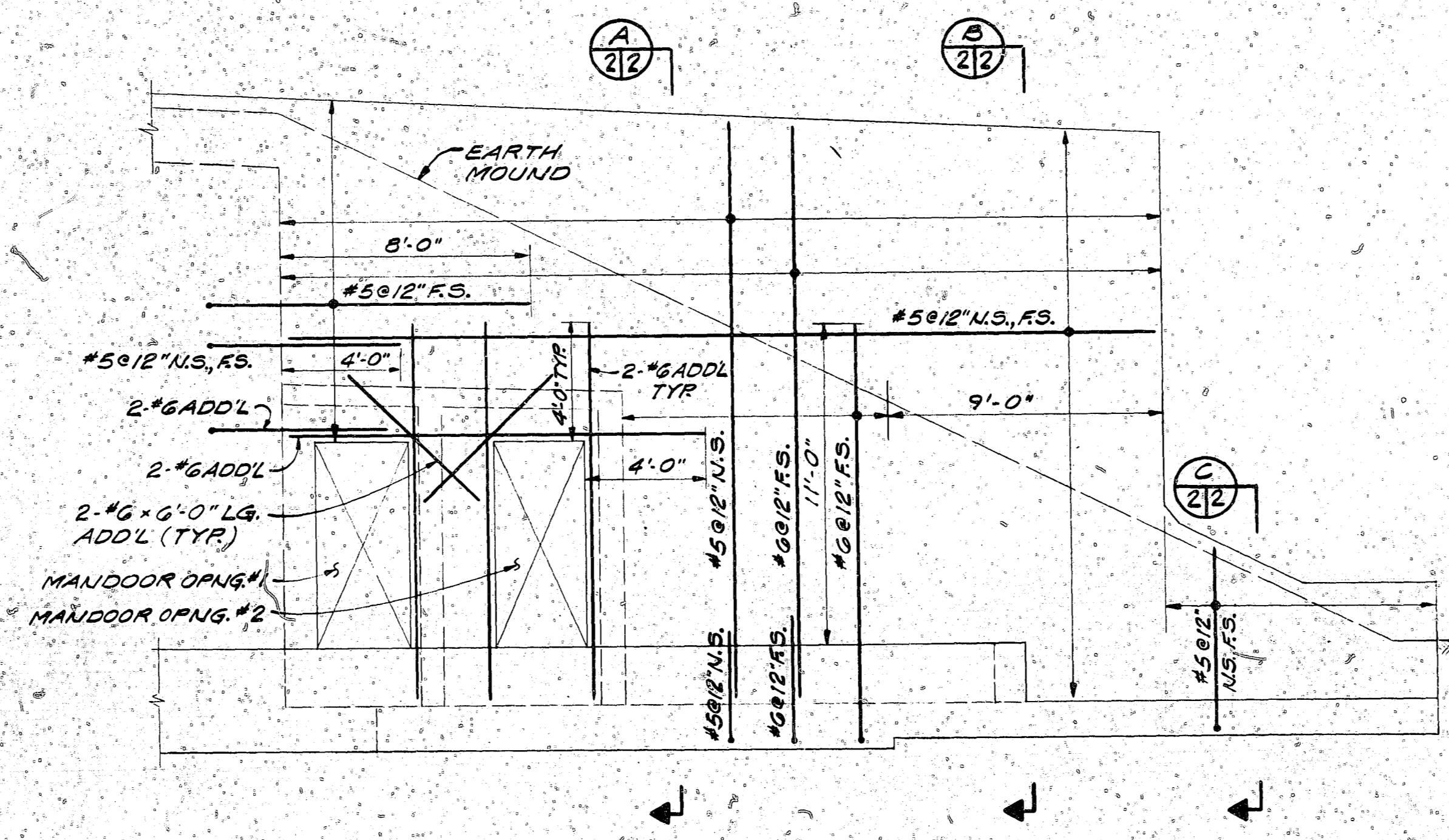
FOUNDATION PLAN - RETAINING WALLS "A" & "B"
(RETAINING WALL "A" AS SHOWN, "B" OPPOSITE HAND)
SCALE: 1/4" = 1'-0"



SECTION (A) SCALE: 3/8" = 1'-0"
SECTION (B) SCALE: 3/8" = 1'-0"
SECTION (C) SCALE: 3/8" = 1'-0"



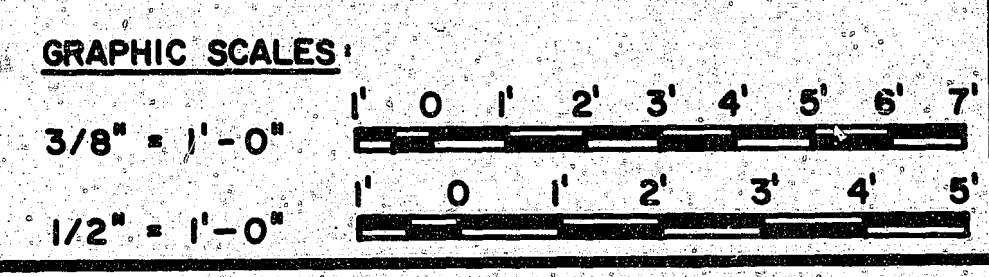
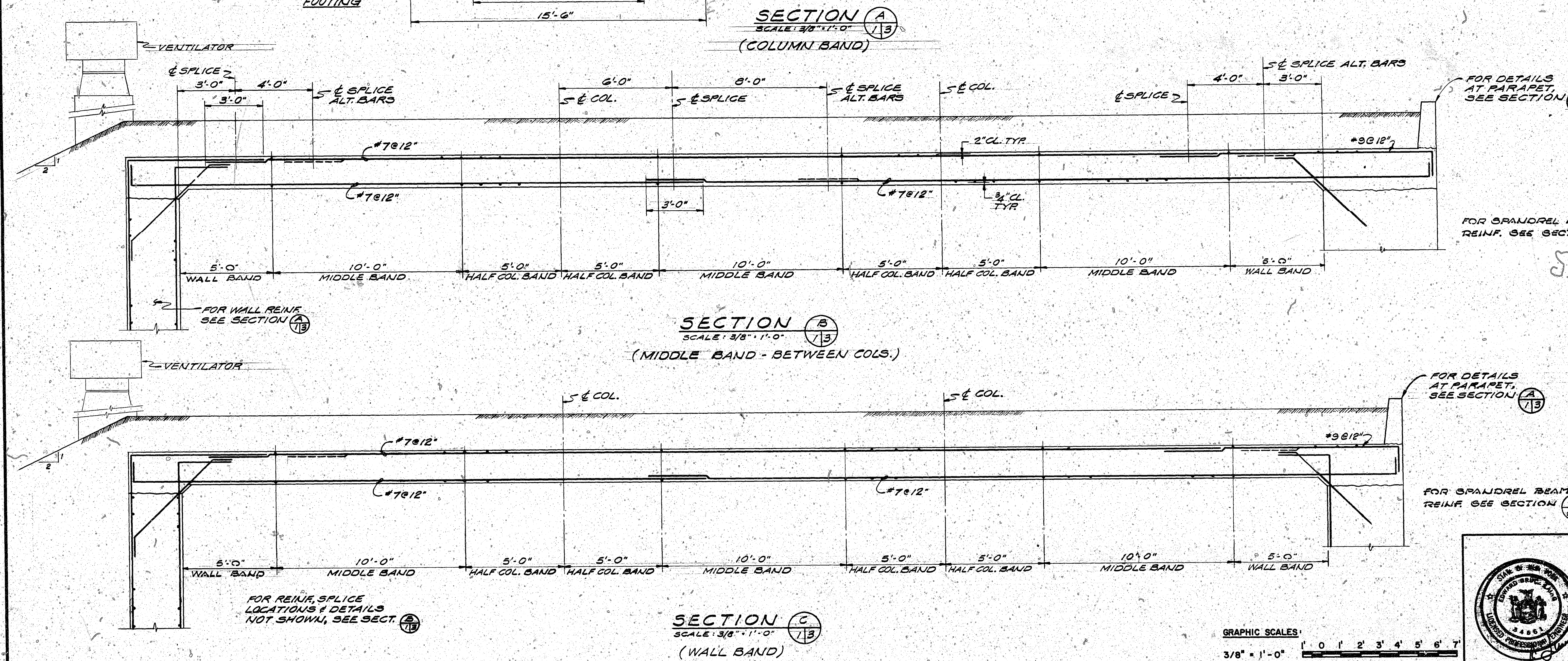
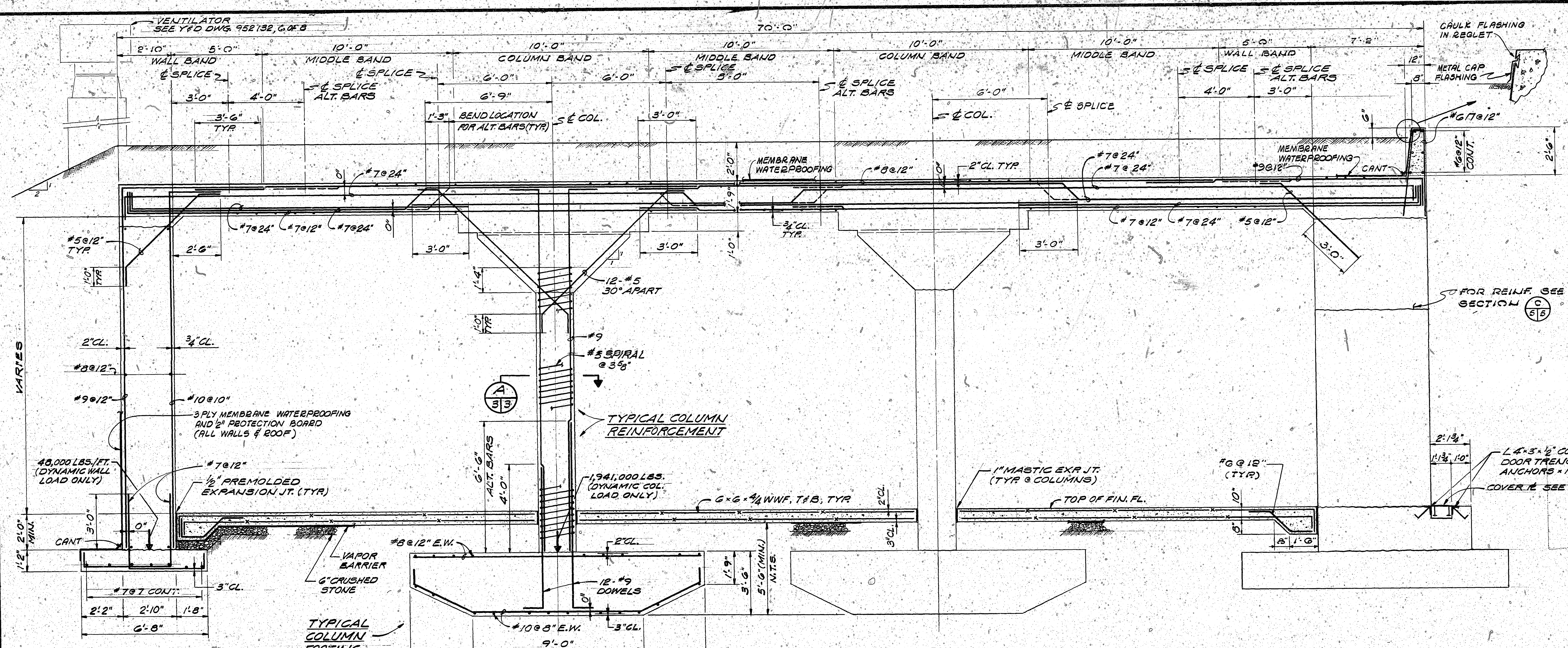
ELEVATION - RETAINING WALL "A"
SCALE: 1/4" = 1'-0"



ELEVATION - RETAINING WALL "B"
SCALE: 1/4" = 1'-0"

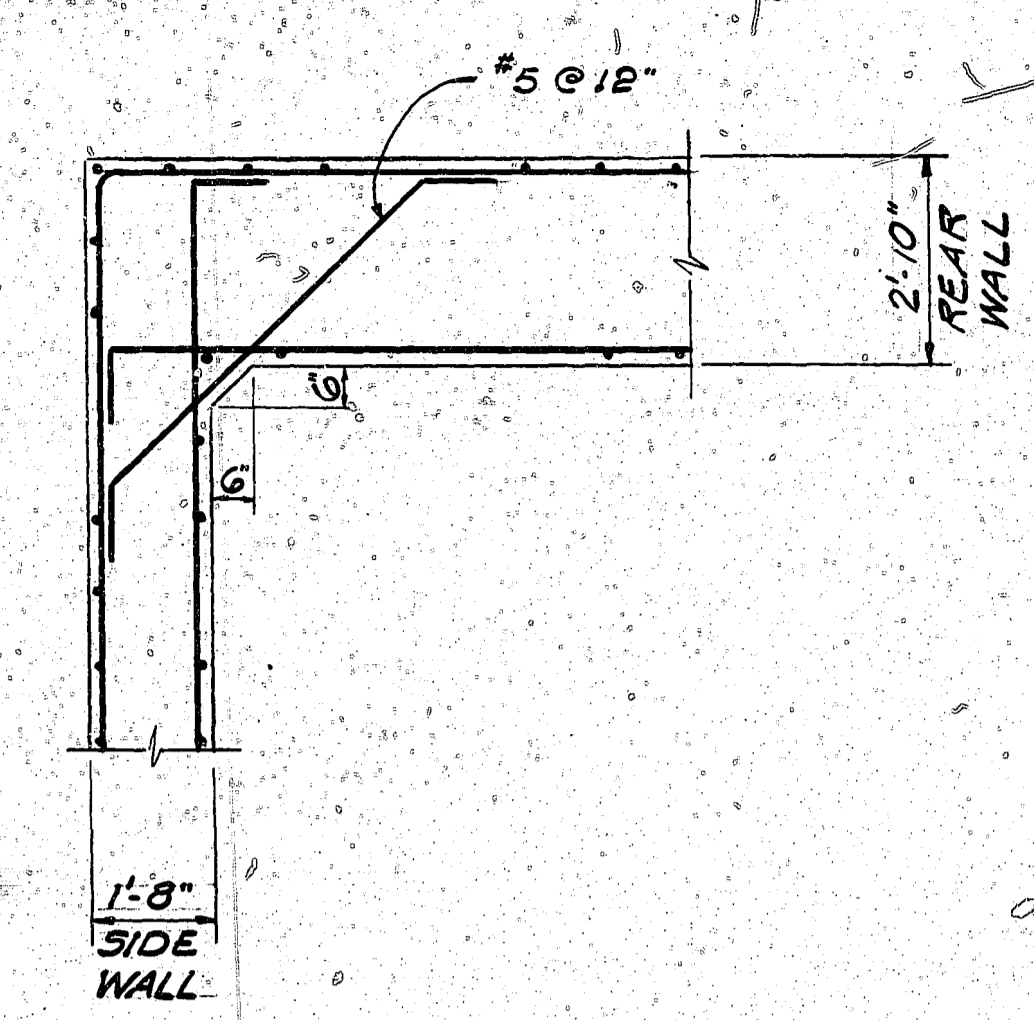
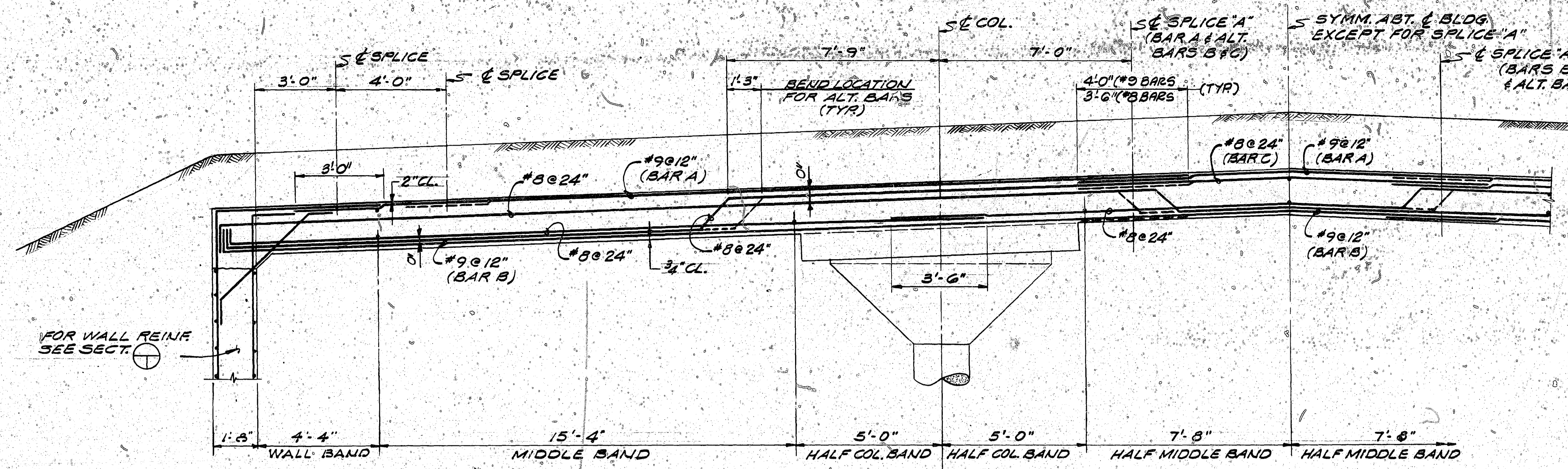
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|--|---|---|
| | AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER, N.Y., N.Y. | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332 |
| | DSON: W.D. DR: A.K. CHK: W.S. SUPV: W.D. CH ENGR: 7-21-78 DATE: 7-21-78 FIRM MEMBER (TITLE) DATE NORTHEN DIVISION NAVFAC NO. 1 (ALEXANDRIA) DTC 1001 200 NAVFAC RVD: [Signature] NO. 2 (ALEXANDRIA) DTC 1001 200 | BOX MAGAZINE TYPE B STANDARD |
| APPROVED: [Signature] DATE: 9/25/78 FOR COMMANDER NAVFAC | DATE: 9/25/78 SIZE: F CODE IDENT NO.: 80091 NAVFAC DRAWING NO.: 1404019 SCALE AS NOTED | SHEET 2 OF 2 |

| REVISIONS | | | |
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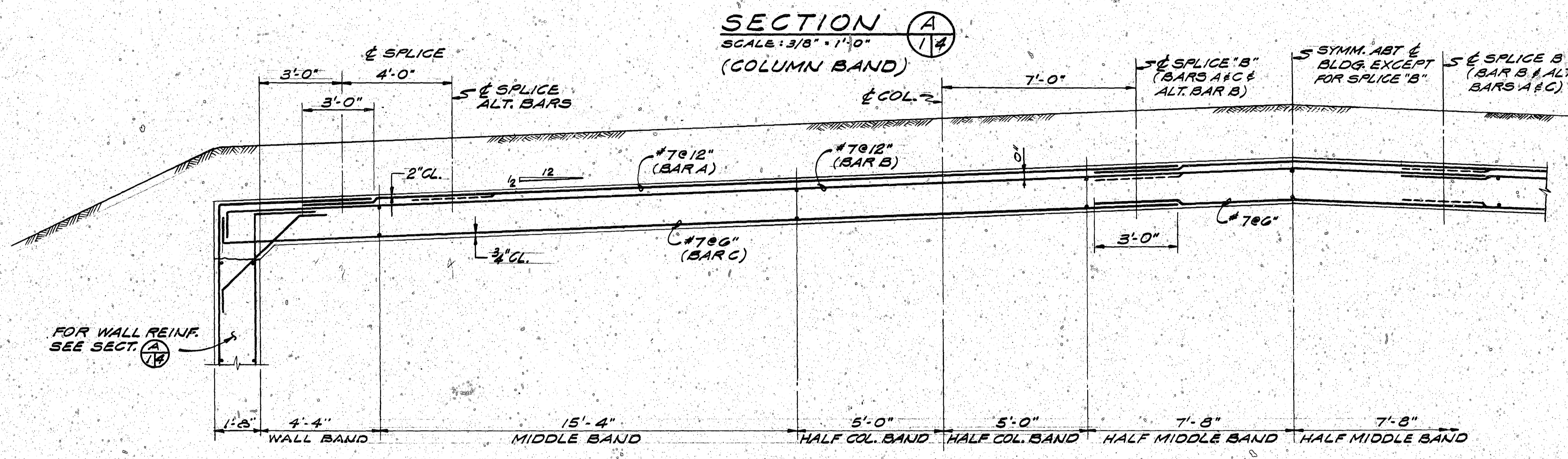


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| | AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER N.Y., N.Y. SUPPLY DIVISION NORTH BRANCH NAVAEC 3485 NAVFAC NO. 2, 1000 1E DIV. 1, 1000 1E | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332 |
| | BOX MAGAZINE TYPE: B STANDARD | |
| APPROVED: <i>[Signature]</i> DATE: <i>[Date]</i> | | SECTION NO. 1404020 NAVFAC DRAWING NO. 1404020 FOR COMMANDER NAVFAC |
| SCALE AS NOTED | | SHEET 3 OF 8 |

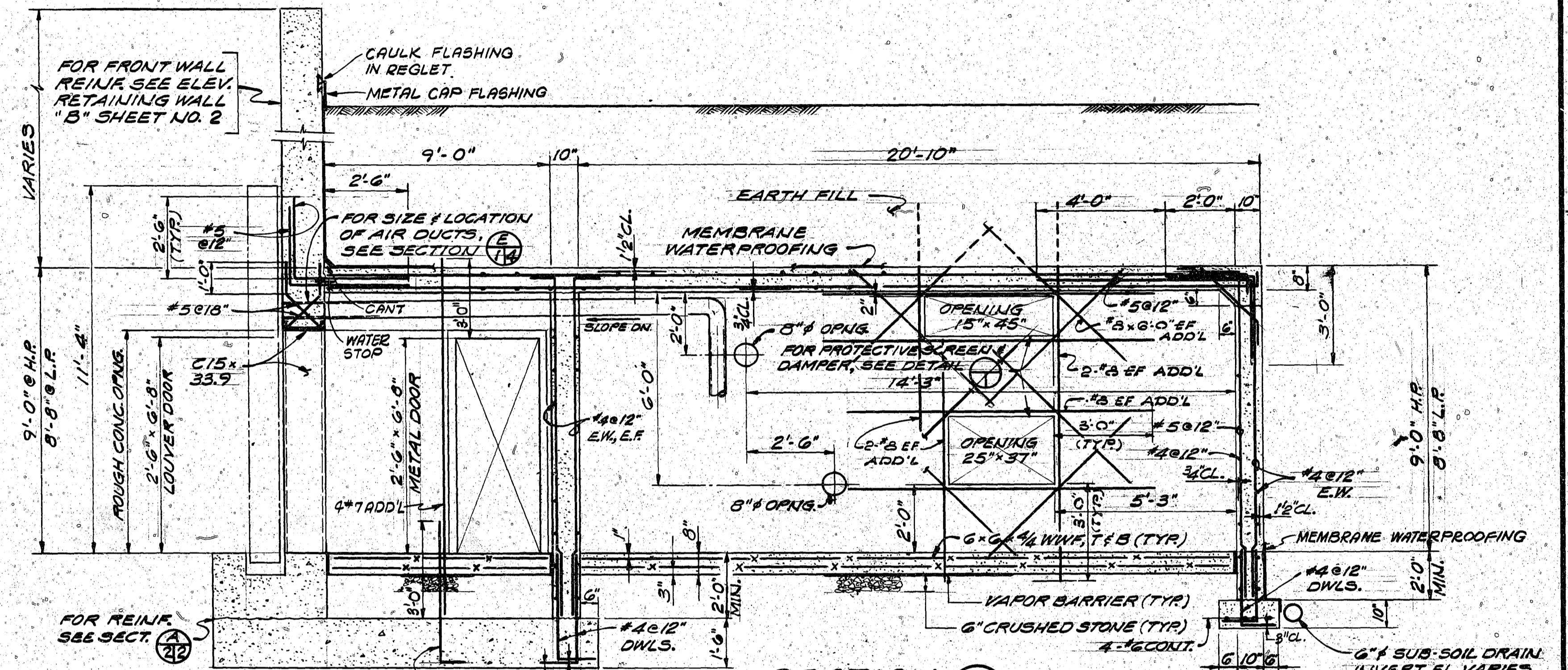
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| LTR | DESCRIPTION | PREP'D BY | DATE APPROVED |
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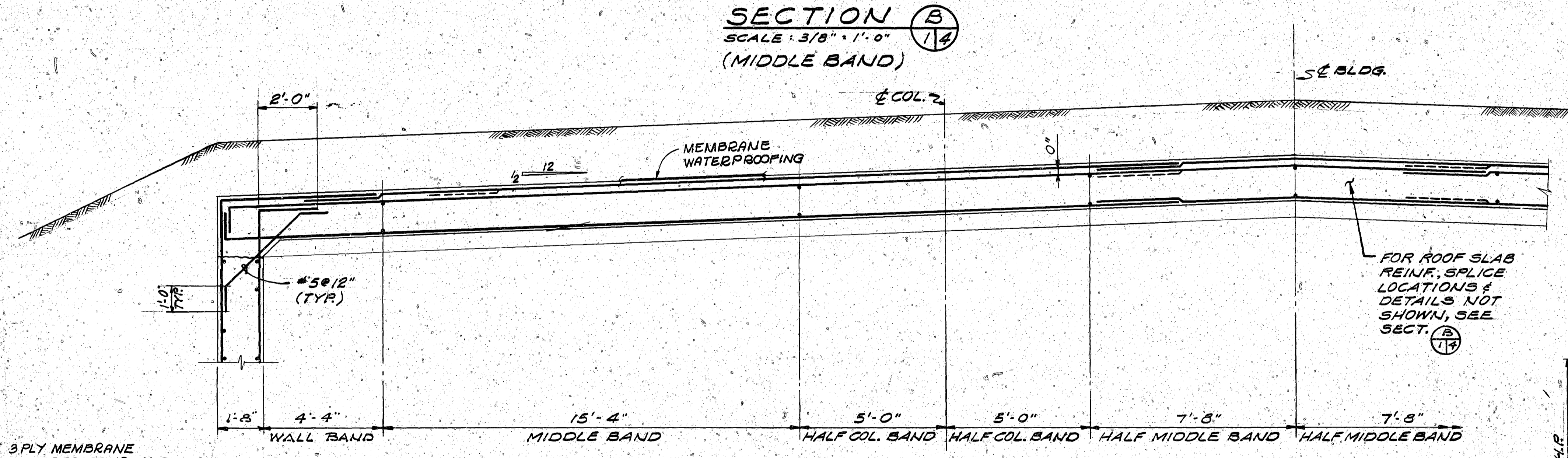
SECTION A
SCALE: 3/8" = 1'-0"
(CORNER DETAIL)



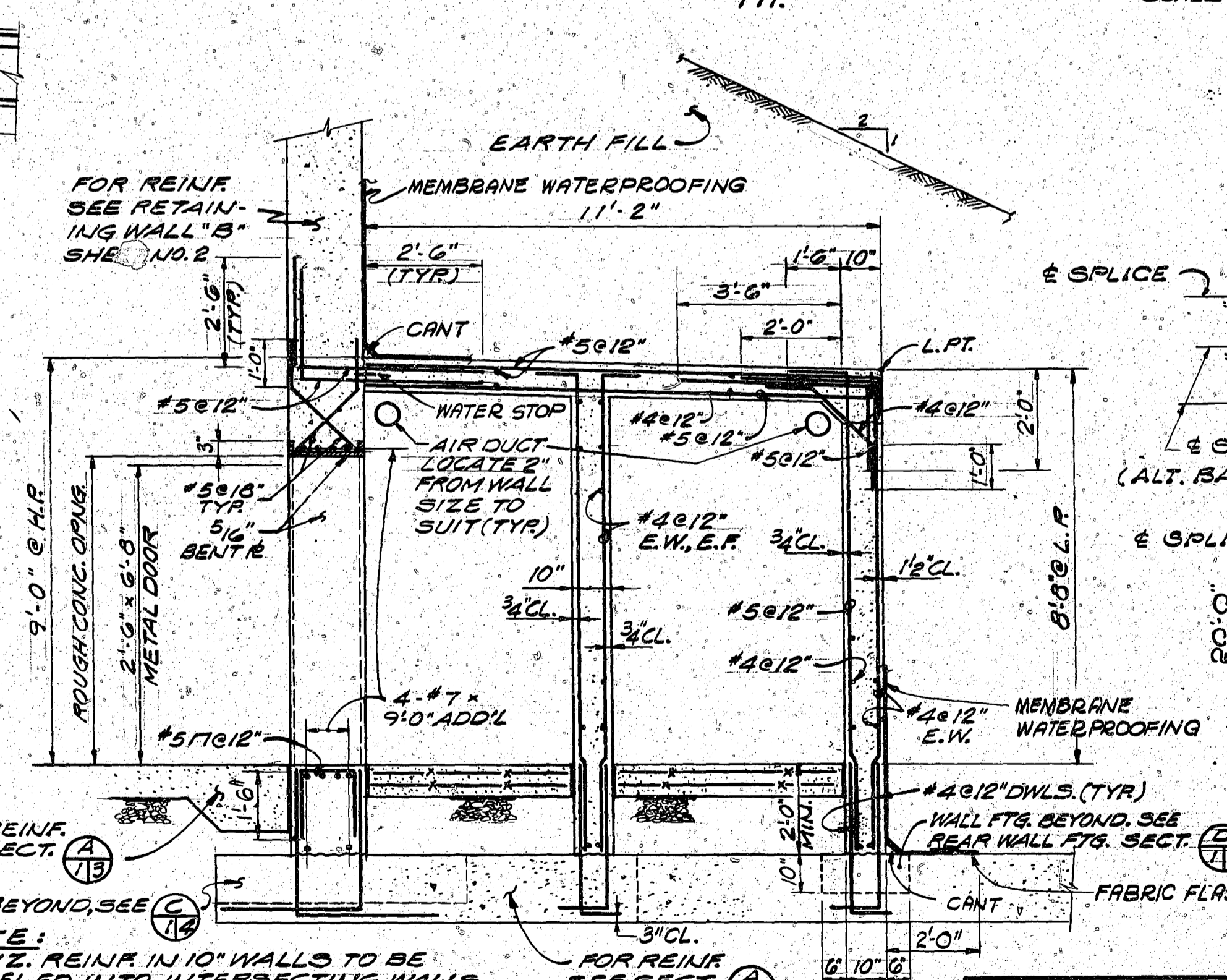
SECTION A
SCALE: 3/8" = 1'-0"
(COLUMN BAND)



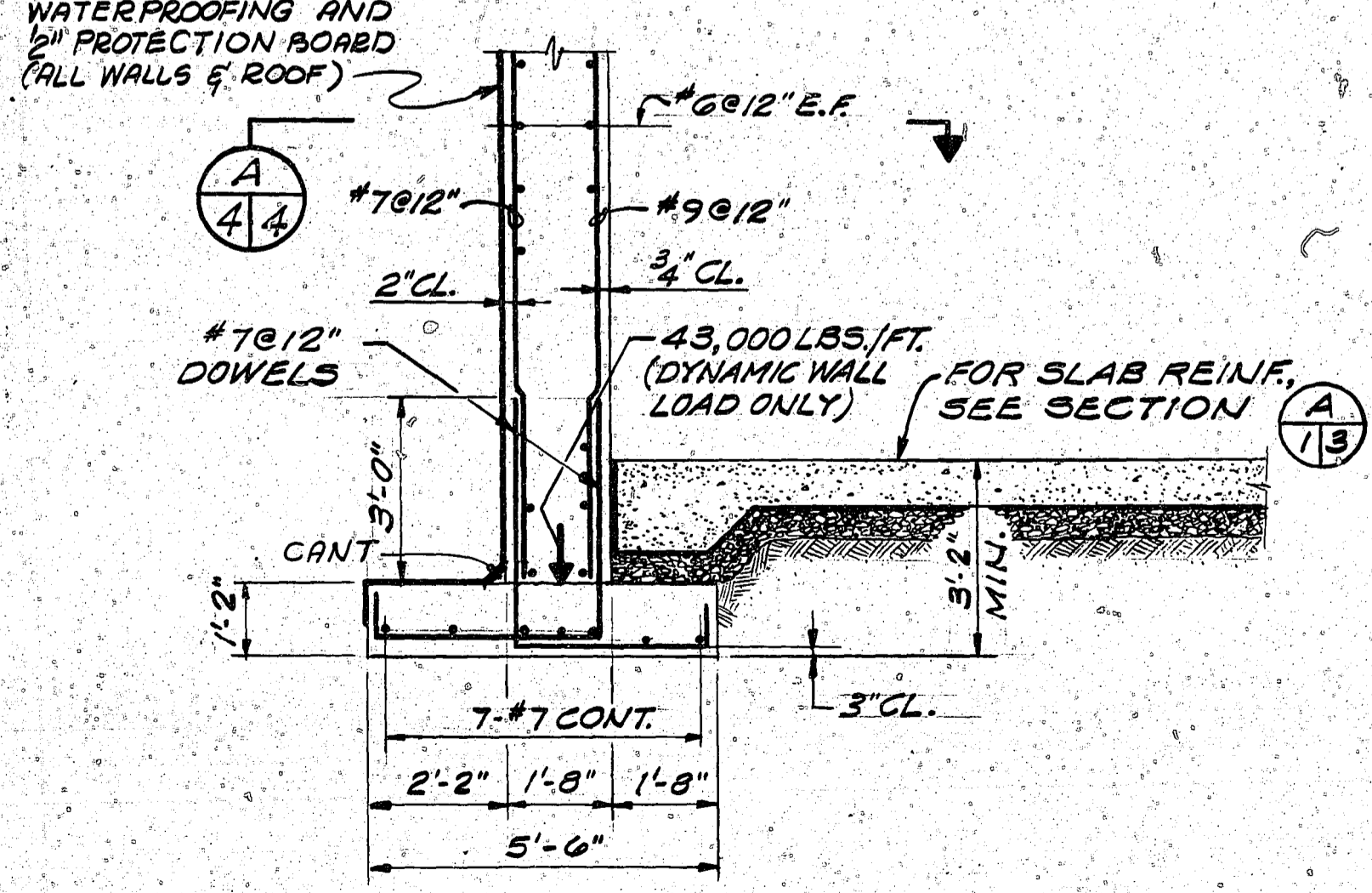
SECTION D
SCALE: 3/8" = 1'-0"



SECTION B
SCALE: 3/8" = 1'-0"
(MIDDLE BAND)

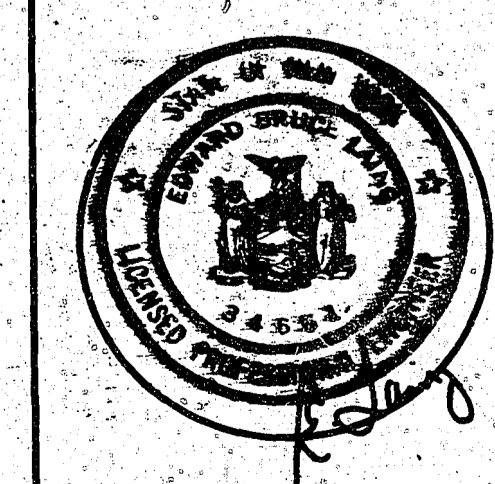
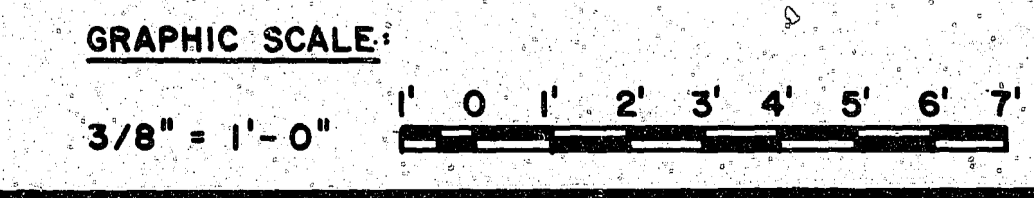


SECTION E
SCALE: 3/8" = 1'-0"



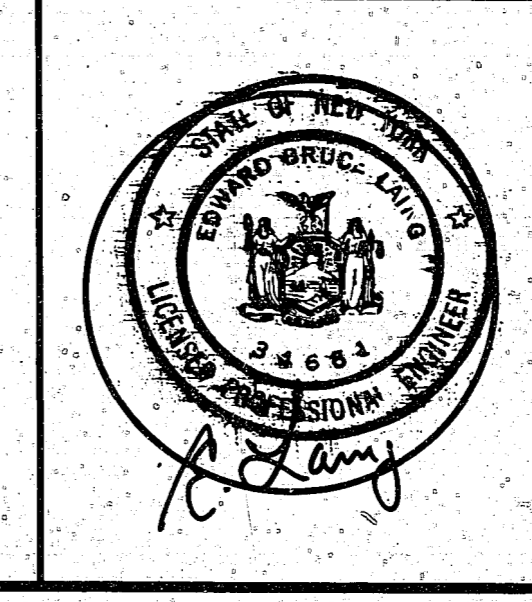
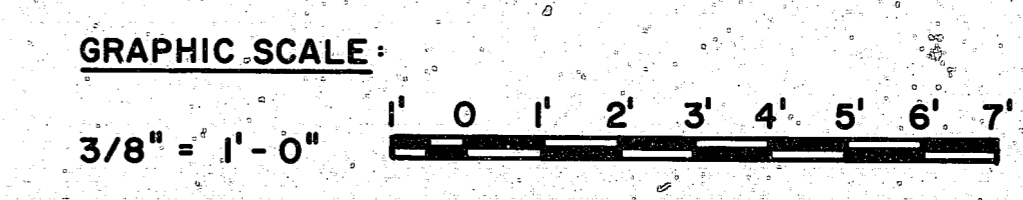
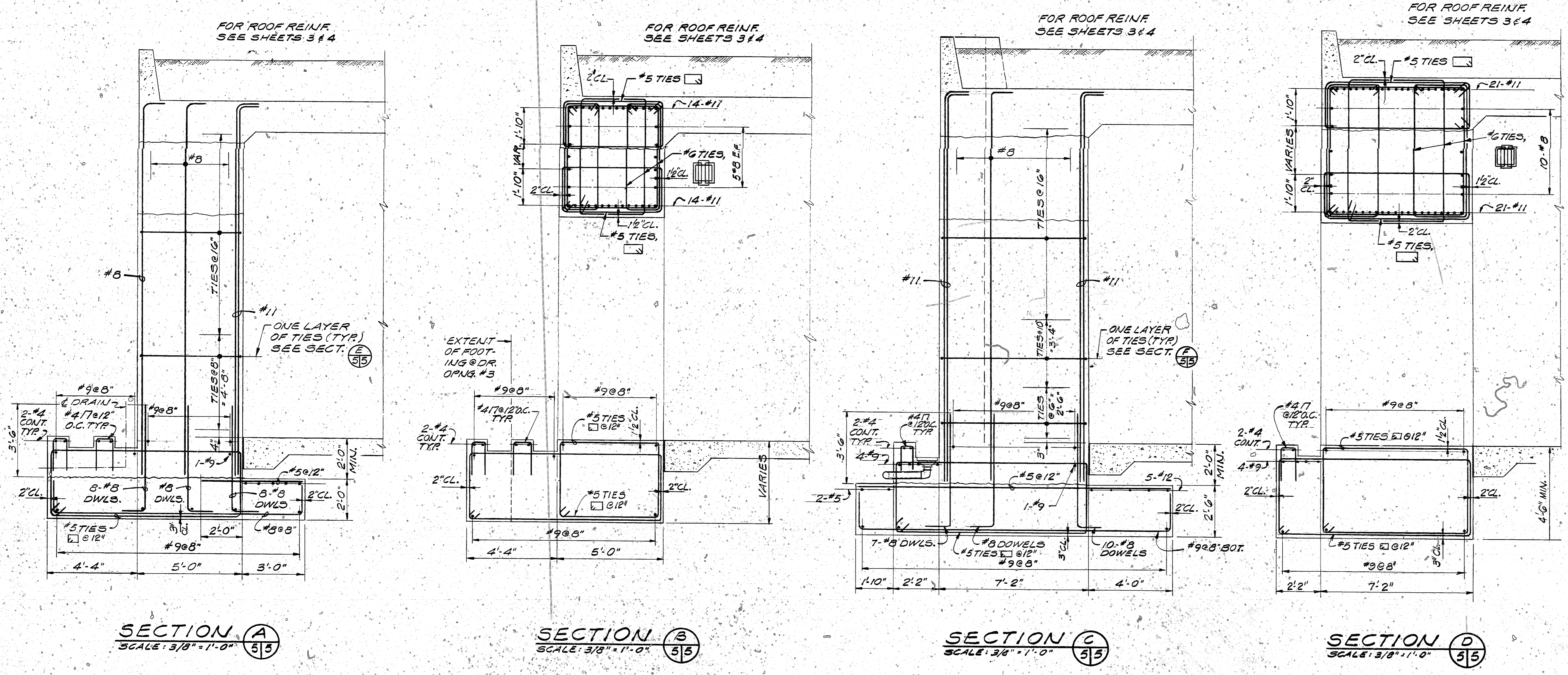
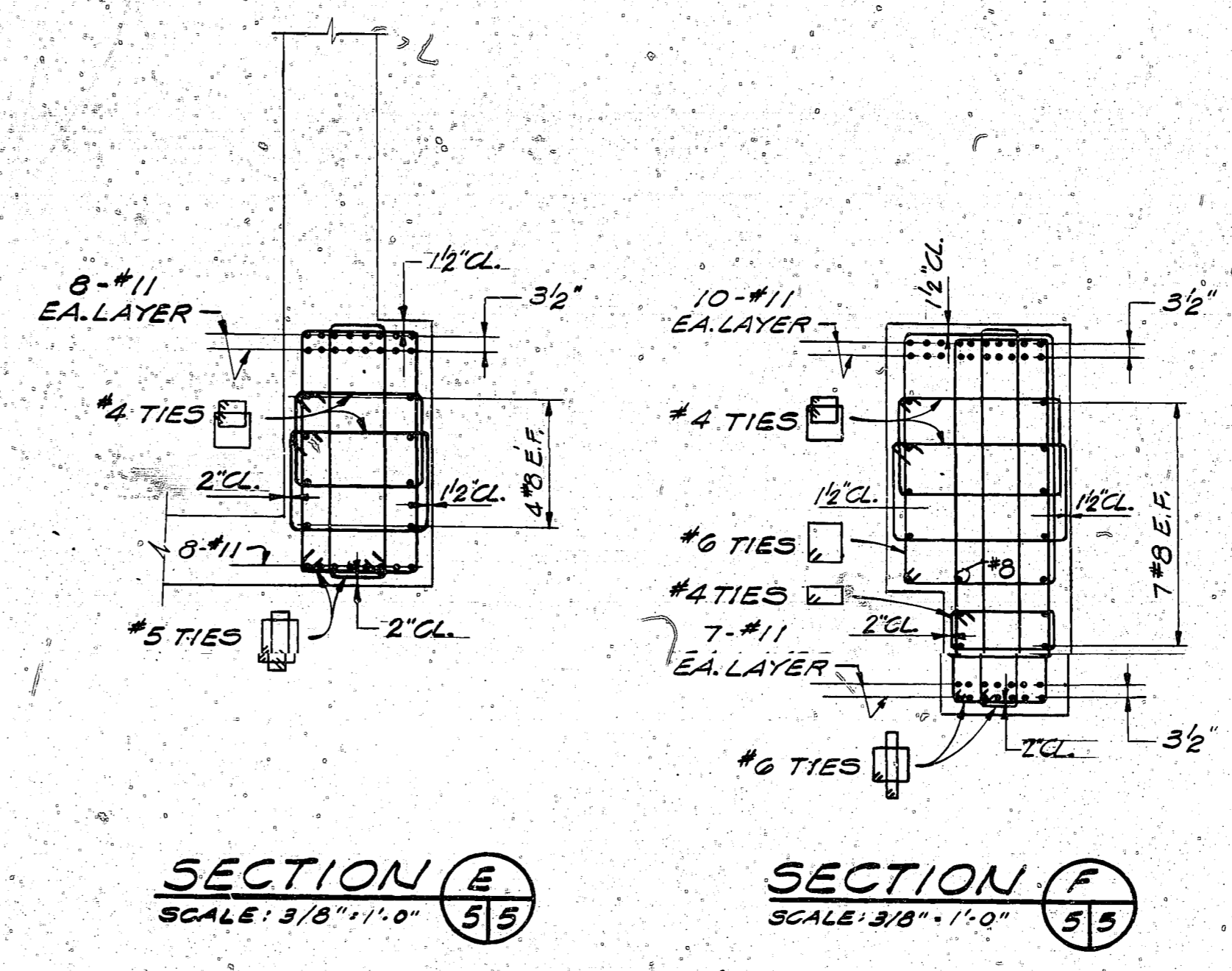
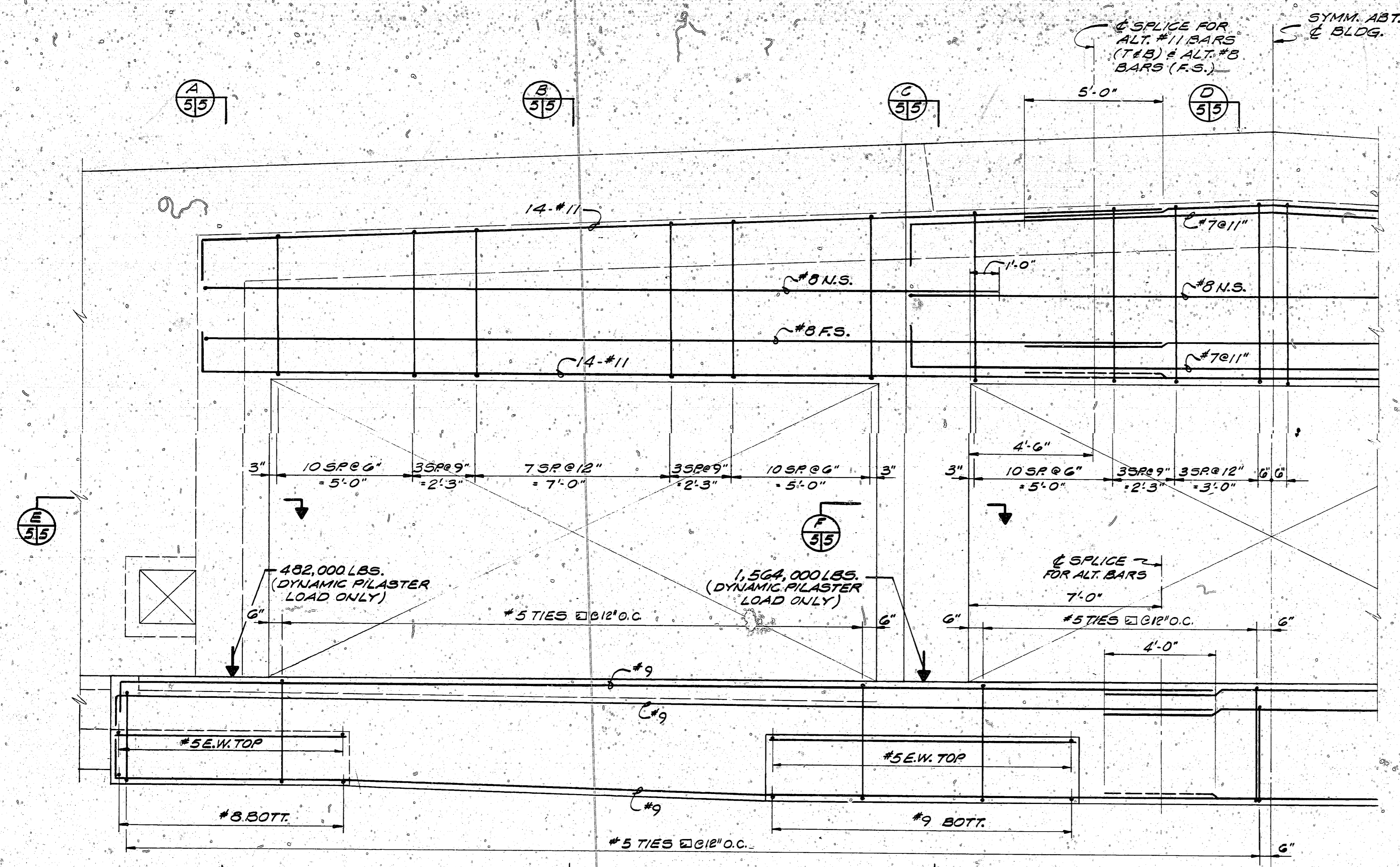
SECTION C
SCALE: 3/8" = 1'-0"
(WALL BAND)

PARTIAL PLAN VIEW
REQ'D SPLICES OF HORIZ. WALL REINF.



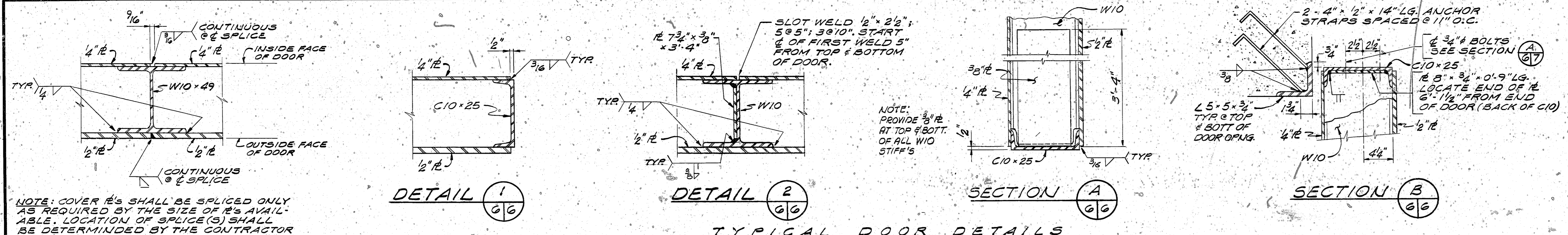
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| AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER N.Y., N.Y. SUPERVISOR: CH ENGR FIRM MEMBERSHIP: 7-12-52 NORTHERN DIVISION: 1-1-54 NO. 140421 | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ALEXANDRIA, VA. 22332 |
| BOX MAGAZINE TYPE B STANDARD | SECTIONS |
| APPROVED: [Signature] FOR COMMANDER NAVFAC | DATE: 9/25/51 SIZE: F CODE IDENT NO.: 80091 NAVFAC DRAWING NO.: 1404021 SCALE AS NOTED |

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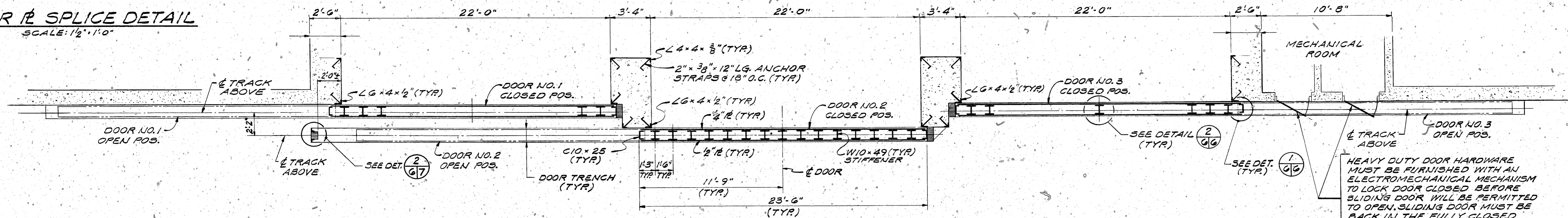
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| AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER N.Y., N.Y. DSGN. M.W.C. DR. C.W. CHK. M.S. SUPV. M.O. CH. ENGR. J.B.S. FIRM MEMBER (TITLE) DATE NORTHERN DIVISION NAVFAC NAVFAC. NO. 80091 RYAN, R. J. APPROVED DATE FOR COMMANDER NAVFAC | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332 BOX MAGAZINE TYPE B STANDARD PILASTERS ELEVATION & SECTIONS SIZE CODE IDENT NO. NAVFAC DRAWING NO. F 80091 1404022 SCALE AS NOTED SHEET 5 OF 8 |
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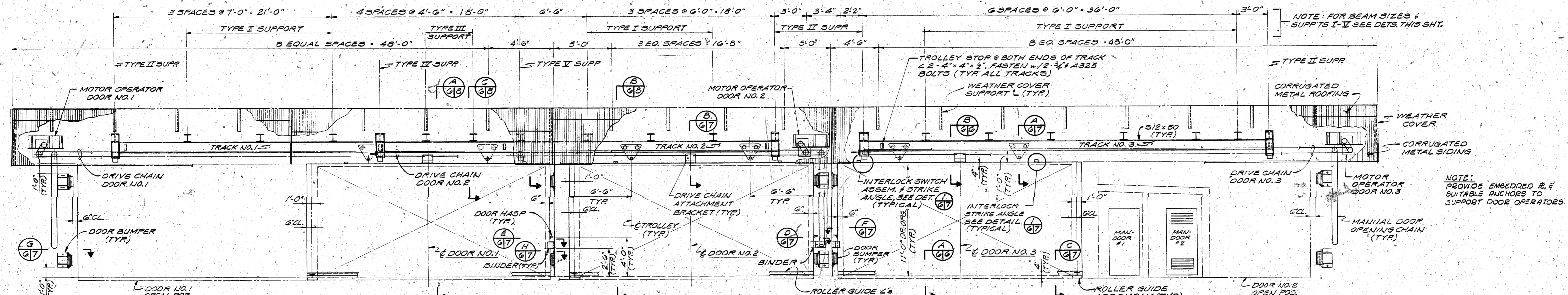


COVER R SPlice DETAIL
SCALE: 1/2" = 1'-0"

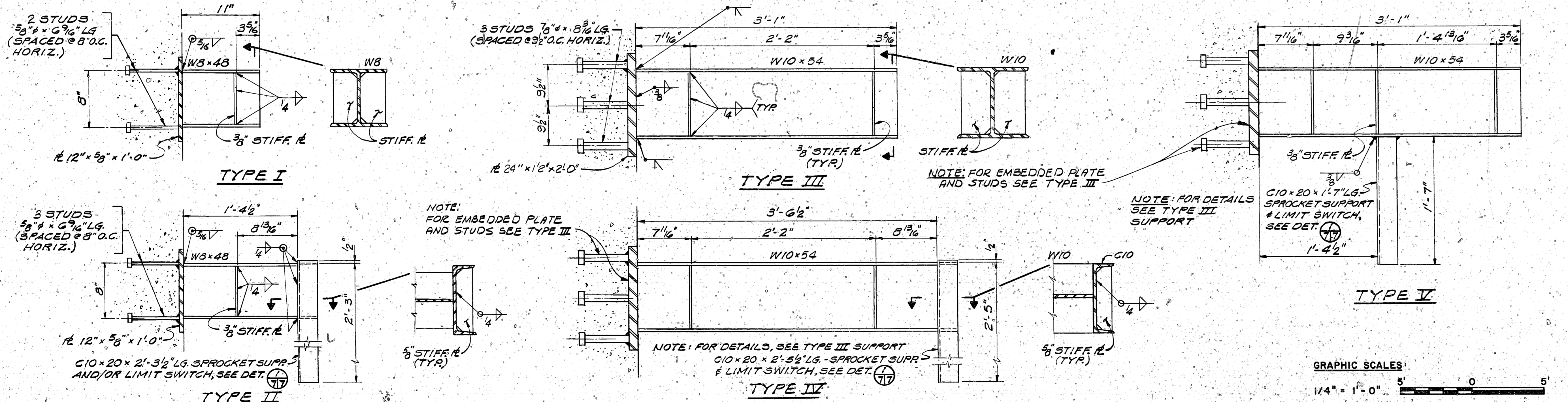
TYPICAL DOOR DETAILS
SCALE: 1/2" = 1'-0"



PARTIAL PLAN AT SLIDING DOORS
SCALE: 1/4" = 1'-0"

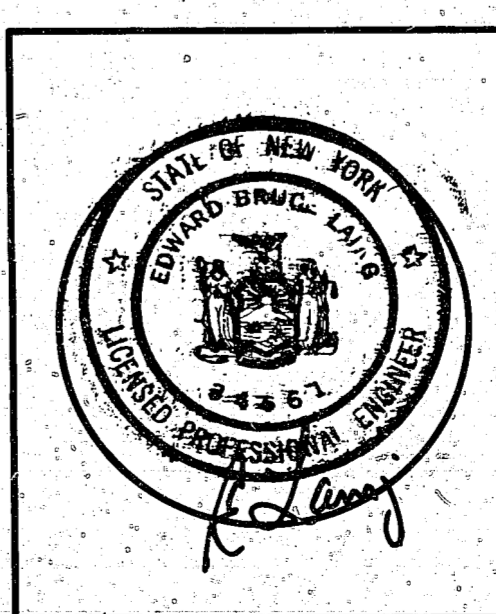


ELEVATION
SCALE: 1/4" = 1'-0"

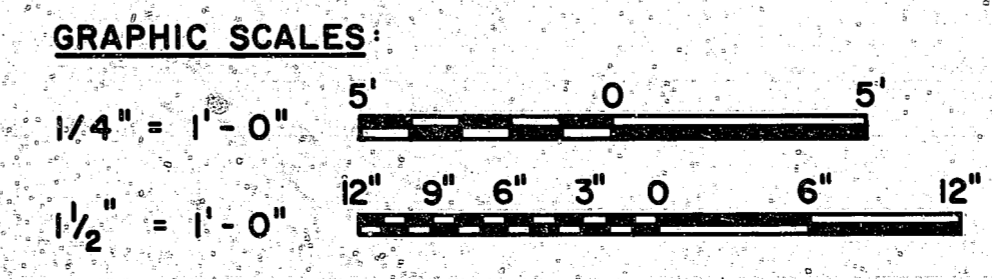


TRACK, SPROCKET & INTERLOCK SUPPORT DETAILS
SCALE: 1/2" = 1'-0"

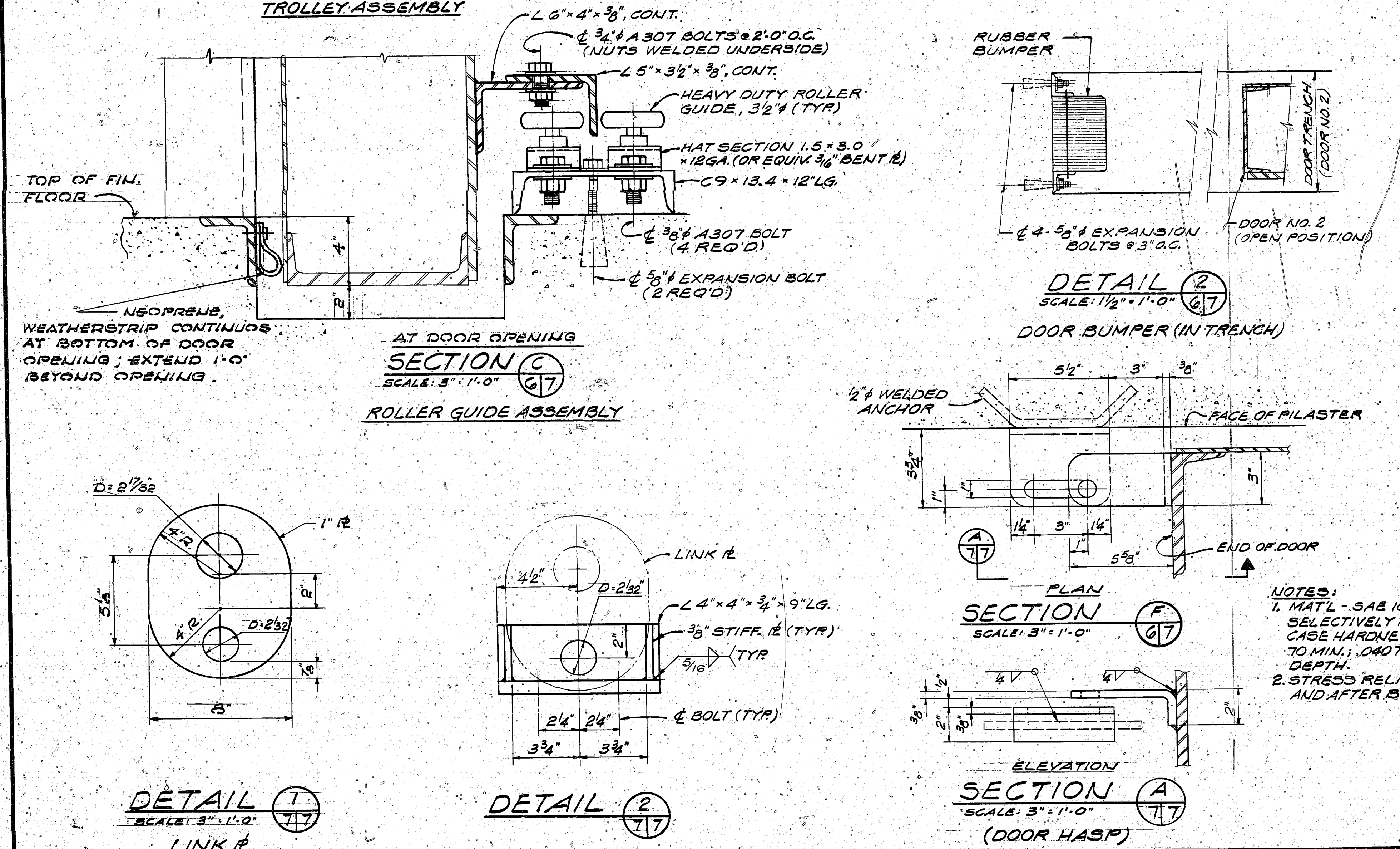
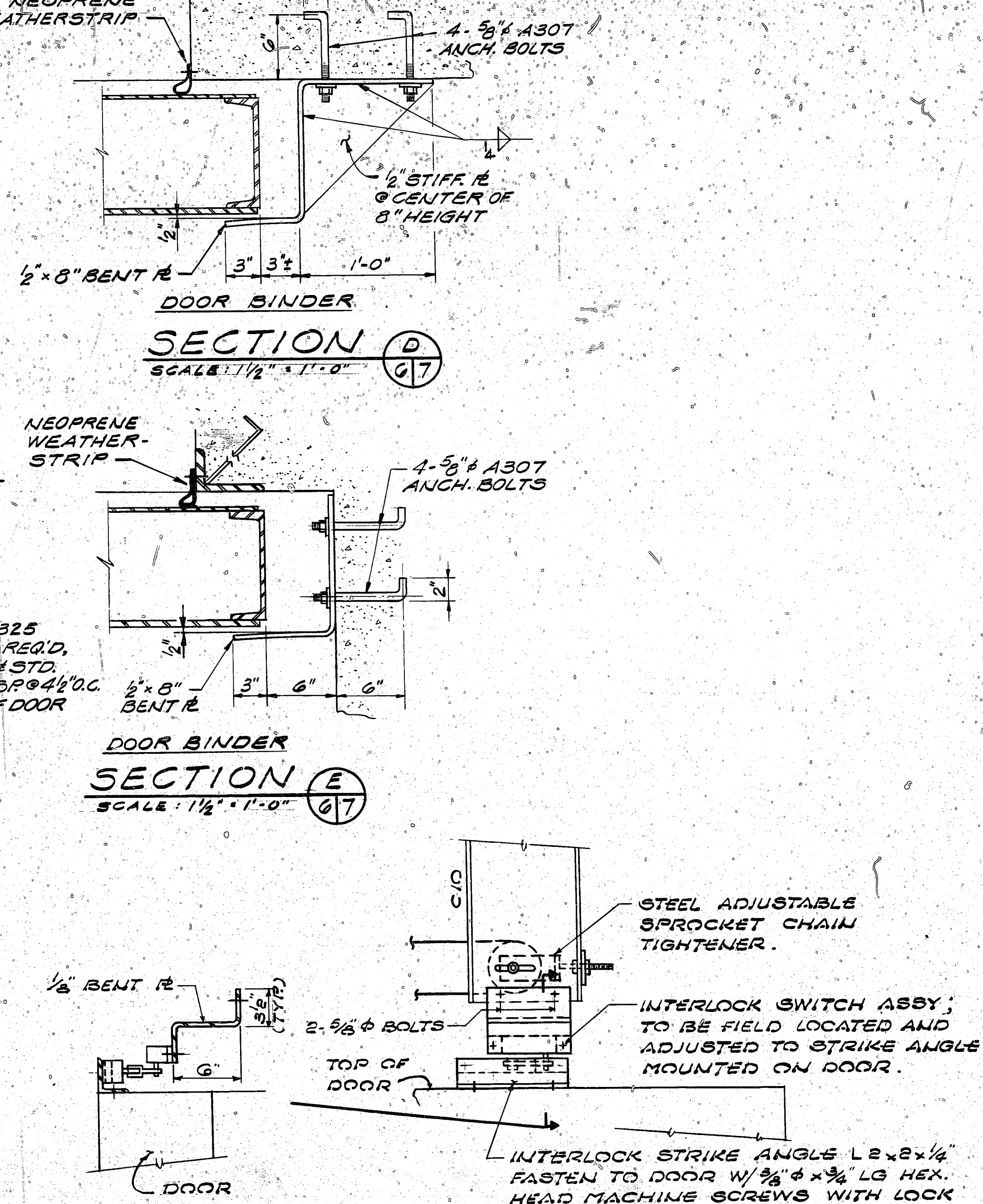
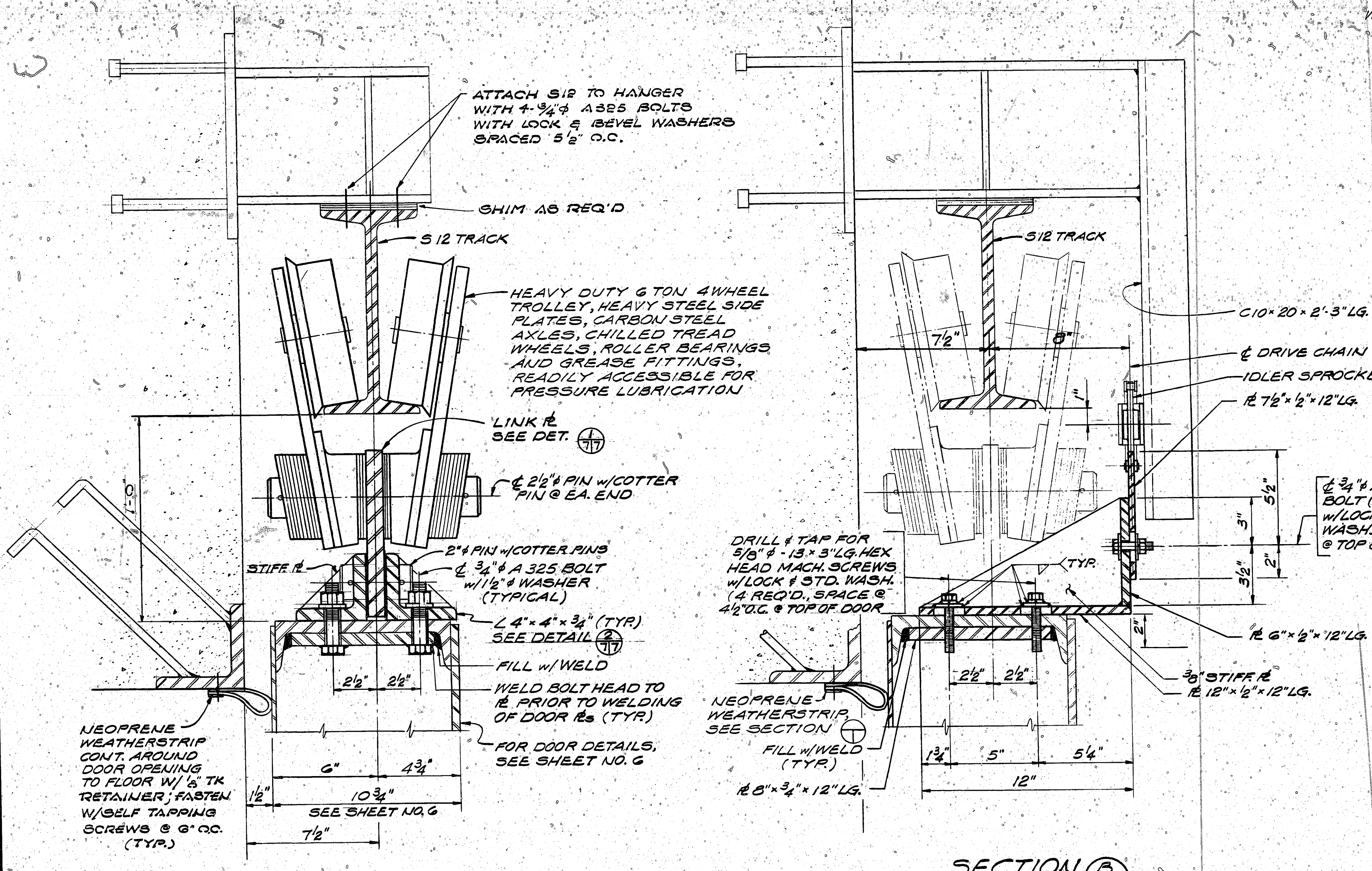
NOTES:
1. FOR PAINTING REQUIREMENTS, SEE SHEET 7.



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| AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER NY, NY OSGN M.W.D. OR P.W. CHK. W.S. SUPV. N.D. CH ENGR. P.M. FIRM MEMBER (TITLE) DATE NORTHERN DIVISION NAVFAC BY: [Signature] DATE: 9-2-78 NO. 2 (LIMIT SW. OIC) (17) (17) | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA 22332 |
| BOX MAGAZINE TYPE B STANDARD | |
| SLIDING DOORS PLAN, ELEVATION, SECTIONS & DETAILS | |
| APPROVED, DATE: [Signature] 9/2/78 | CODE IDENT NO. 80091 NAVFAC DRAWING NO. 1404023 |
| FOR COMMANDER NAVFAC | SCALE AS NOTED SHEET 6 OF 8 |



| REVISIONS | | | |
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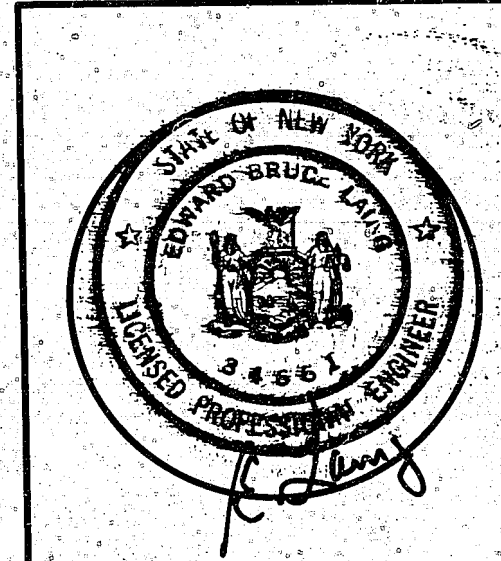
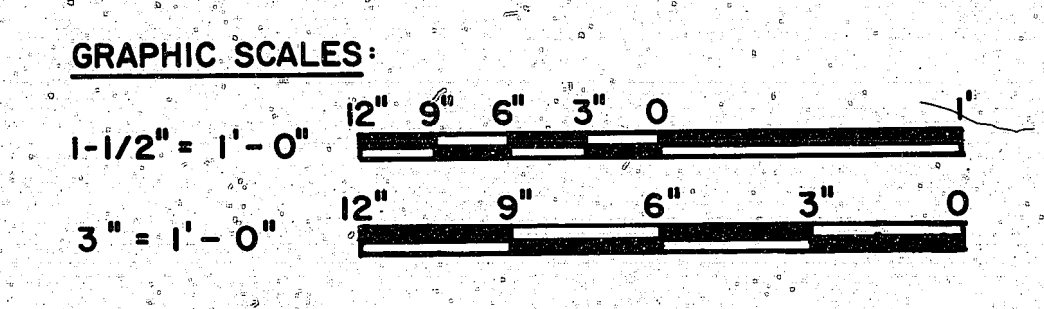
- NOTES:**
- DOOR REQUIREMENTS:**
- ALL DUST, DIRT, OIL, GREASE, WELD FLUX RESIDUE, SALTS, RUST SCALE, LOOSE RUST & OTHER FOREIGN MATTER THAT MAY INHIBIT PAINT BOND TO STRUCTURAL STEEL SHALL BE REMOVED IN THE SHOP IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL (SSPC), SSPC.
 - EXCEPT FOR CONTACT SURFACES OF MOVING PARTS ALL EXPOSED SURFACES OF STRUCTURAL STEEL SHALL RECEIVE ONE 1.5 MIL (DRY) COAT OF ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-643. UNEXPOSED SURFACES SHALL RECEIVE 1.0 MIL (DRY) COAT OF ASPHALT VARNISH CONFORMING TO FEDERAL SPECIFICATION TT-V-51. ALL PRIMER COATING SHALL BE PERFORMED IN THE SHOP.
 - ALL EXPOSED SURFACES OF STRUCTURAL STEEL SHALL RECEIVE TWO FIELD COATS OF PAINT WITH A MINIMUM THICKNESS OF 4.0 MIL (DRY) CONFORMING TO FEDERAL SPECIFICATION TT-P-105 OR TT-P-37.
 - DOOR & HARDWARE SHALL BE SHOP ASSEMBLED TO INSURE PROPER CONTACT, CLEARANCES, ALIGNMENT & ENGAGEMENT OF THE DOOR & SMOOTH OPERATION OF LOCKING & DRIVE MECHANISMS. THIS ASSEMBLY WILL BE AT NO ADDITIONAL COST TO THE GOVERNMENT.
 - ALL WEATHER STRIPPING SHALL BE CLOTH INSERTED NEOPRENE ONE EIGHTH (1/8") THICK & CONFORMING TO THE FEDERAL SPECIFICATION HH-P-151.
 - ALL PINS, BEARINGS, GEARS, SPROCKETS, SHAFTS AND SHEAVES SHALL BE DESIGNED FOR A DOOR LIFE OF 10,000 CYCLES OF OPERATION.

- ELECTRICAL REQUIREMENTS:**
- ALL EQUIPMENT GROUNDING CONDUCTORS & STRAPS SHALL BE SIZED IN COMPLIANCE WITH THE NEC.
 - GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN INSULATION EQUIVALENT TO THE INSULATION ON THE ASSOCIATED PHASE CONDUCTORS.
 - FEEDER & BRANCH CIRCUIT GROUNDING CONDUCTORS SHALL BE BRAZED TO THE GROUNDING BARS OR CONNECTED WITH APPROVED PRESSURE CONNECTORS.
 - WIRING SHALL BE INSTALLED IN A RIGID CONDUIT.

- DOOR OPERATOR REQUIREMENT:**
- DESIGN REQUIREMENTS - (a) OUTDOOR OPERATION (b) 80 PSF WIND LOAD, (c) 15 FPM VELOCITY FOR OPENING AND CLOSING DOORS.
 - GEARS, SHAFTS AND SPROCKETS - ALL GEARS IN SPEED REDUCTION UNIT SHALL BE THE MACHINED TYPE. GEARS AND SHAFTS SHALL BE MOUNTED WITH LONG-LIFE BEARINGS, ENCLOSED IN OIL TIGHT HOUSING AND OPERATED AT ALL TIMES IN AN OIL BATH. ALL SPROCKETS SHALL BE FROM STEEL PLATES.
 - CASTINGS - SHEAVES & OTHER CASTINGS SHALL BE CLOSE GRAINED ALLOYED GRAY CAST IRON.
 - ROLLER CHAINS - ALL ROLLER CHAINS SHALL BE HEAVY DUTY, HIGH STRENGTH, PRECISION ASSEMBLED, AND DESIGNED FOR A SAFETY FACTOR OF 5.
 - MOTOR - THE MOTOR SHALL OPERATE NORMALLY AT NO MORE THAN 75 PERCENT OF RATED CAPACITY.
 - LIMIT SWITCHES - TYPE: MECHANICALLY ACTUATED. LIMIT SWITCH SHALL STOP THE DOOR AT END OF TRAVEL (OPEN AND CLOSED POSITIONS).
 - PUSH BUTTON STATION - PUSH BUTTON UNIT SHALL BE A CONSTANT PRESSURE, HEAVY DUTY WEATHER PROOF CONTROL STATION.
 - EMERGENCY OPERATION - PROVIDE A CHAIN-GEAR MECHANISM FOR MANUAL OPERATION OF THE DOOR IN THE EVENT OF AN ELECTRICAL FAILURE. A MOTOR DISCONNECT, USING A MECHANICAL DEVICE, SHALL BE PROVIDED FOR EMERGENCY OPERATION.

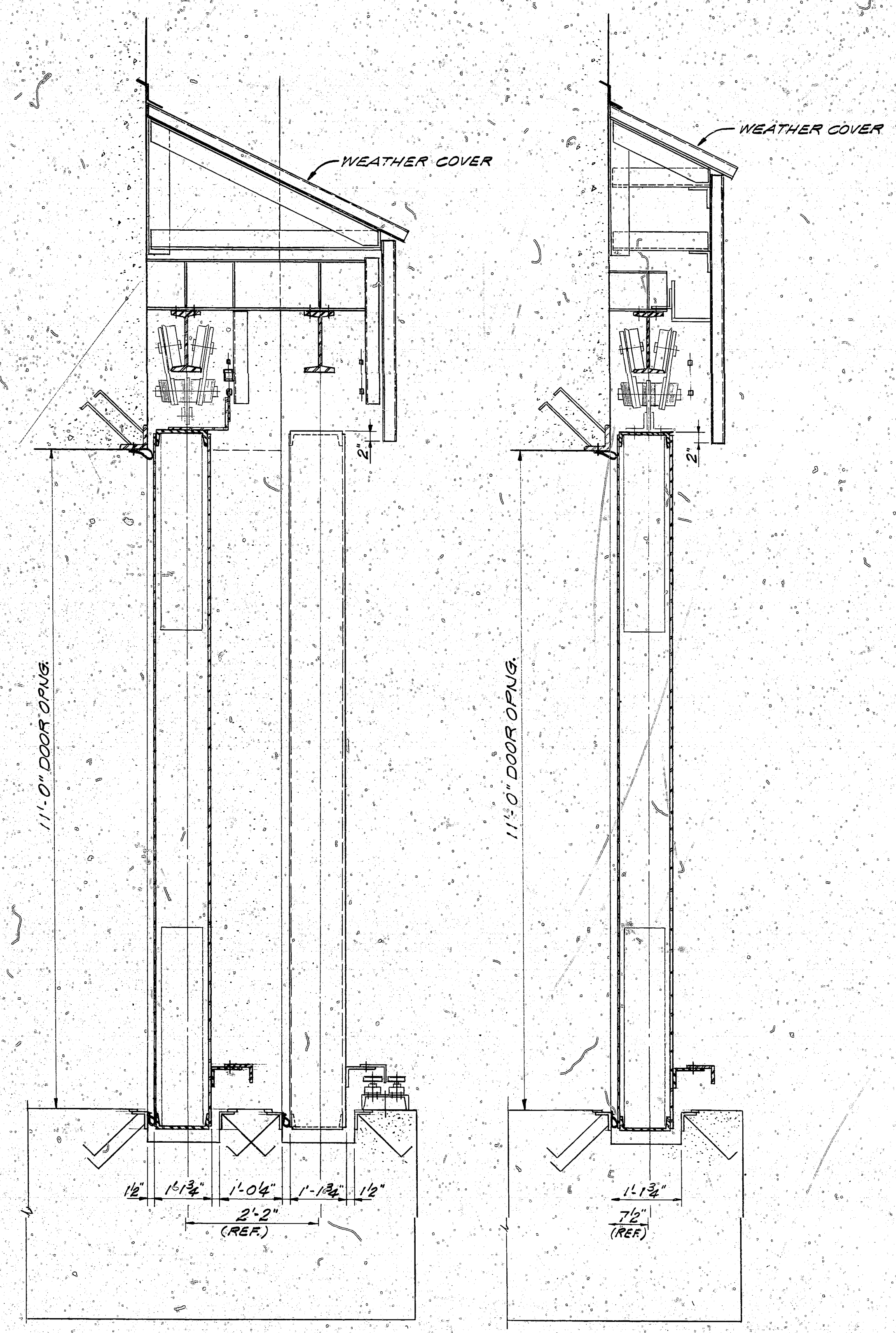
NOTES:

- MAT'L - SAE 1018/1019; SELECTIVELY HARDENED; CASE HARDNESS R30-N TO MIN.; 0.0070" CASE DEPTH.
- STRESS RELIEVE BEFORE AND AFTER BENDING.



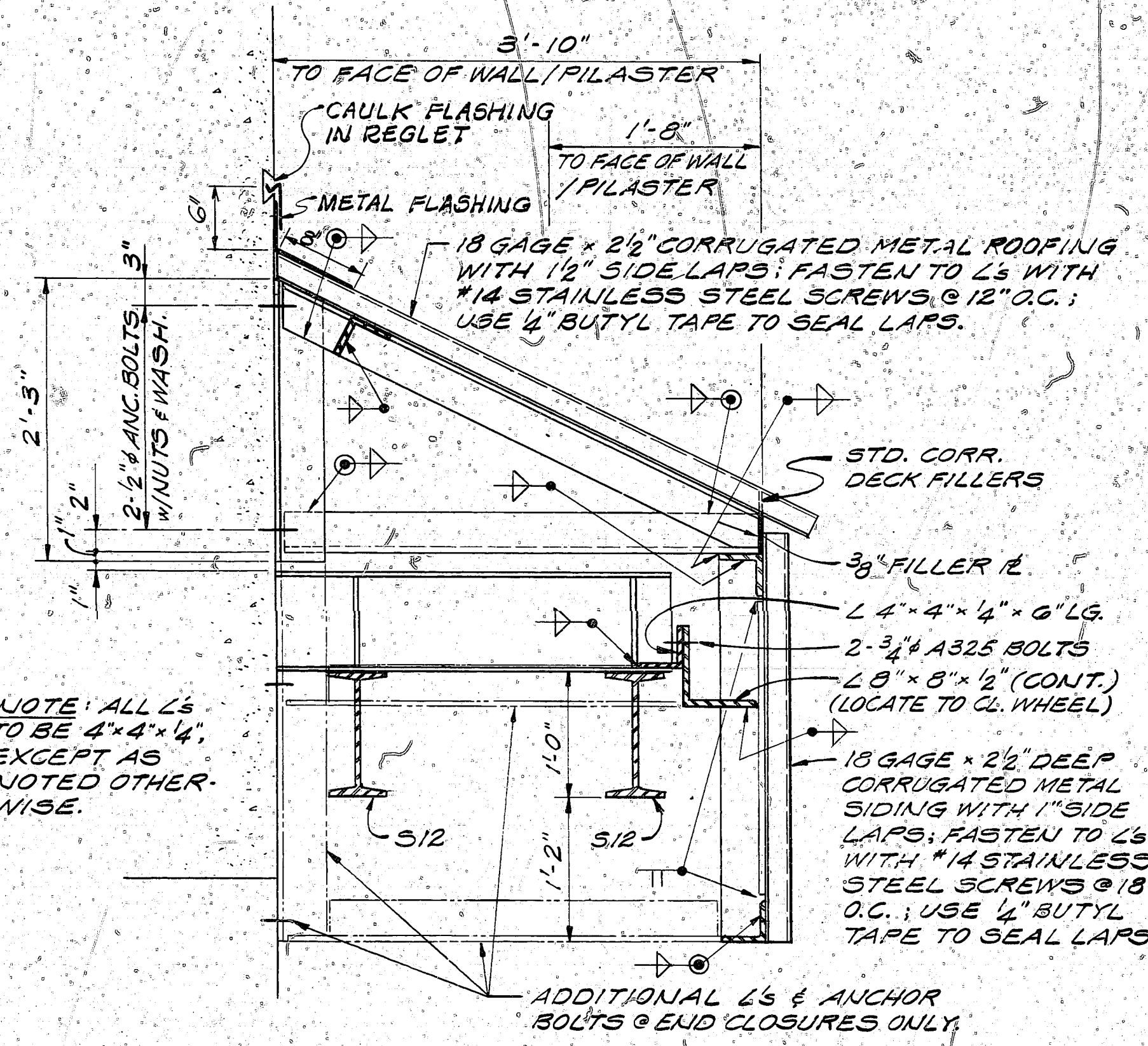
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| AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER N.Y., N.Y. | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332 |
| DESIGN: M.W.D. DRAWN: C.H.K. W.S. SUPV: M.D. CHECKED: J.B.T. FIRM MEMBER: DATE: 1/1/78 | BOX MAGAZINE TYPE B STANDARD |
| NORTHWEST DIVISION, NAVFAC NAVFAC: RVD, Alexandria, VA HD: J. J. J. DIV. 1/1/78 | SLIDING DOORS SECTIONS & DETAILS |
| APPROVED: [Signature] DATE: 1/1/78 FOR COMMANDER NAVFAC | SIZE: F CODE IDENT NO: 80091 NAVFAC DRAWING NO: 1404024 |
| SCALE AS NOTED | SHEET 7 OF 8 |

| REVISIONS | | | |
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| LTR | DESCRIPTION | PREP'D BY | DATE APPROVED |
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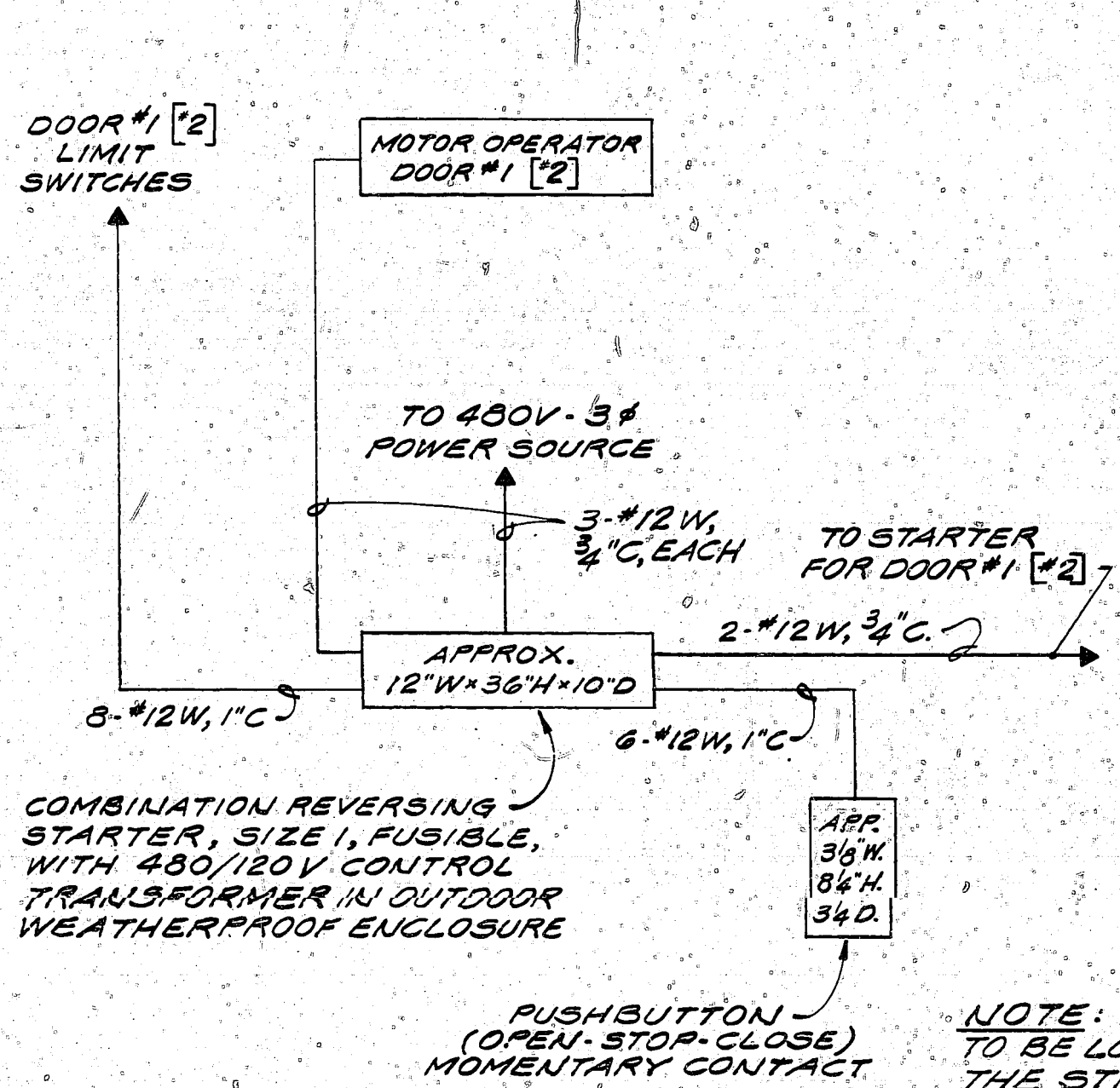


SECTION A
SCALE: 3/4" = 1'-0" (6/8)

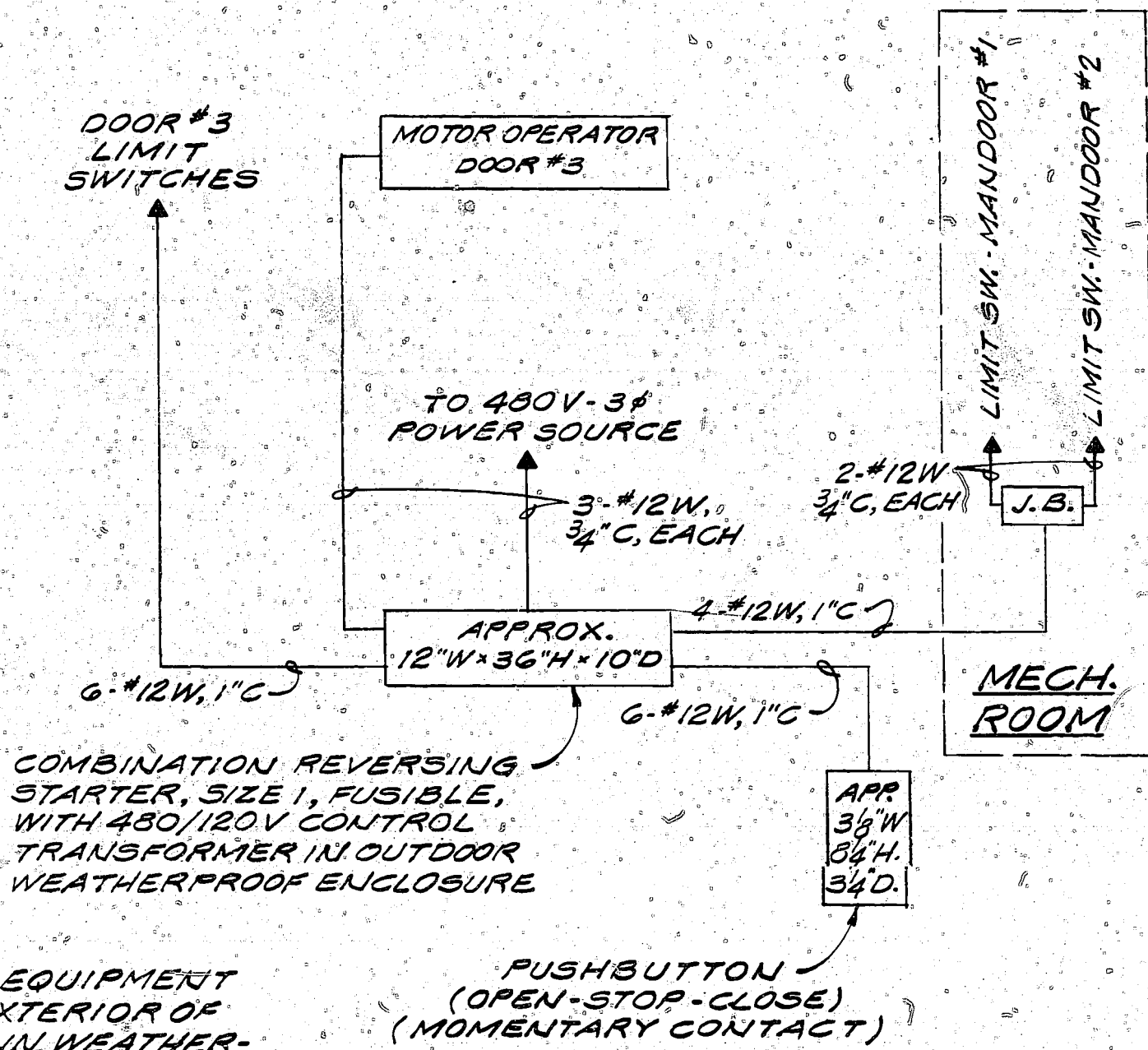
SECTION B
SCALE: 3/4" = 1'-0" (6/8)



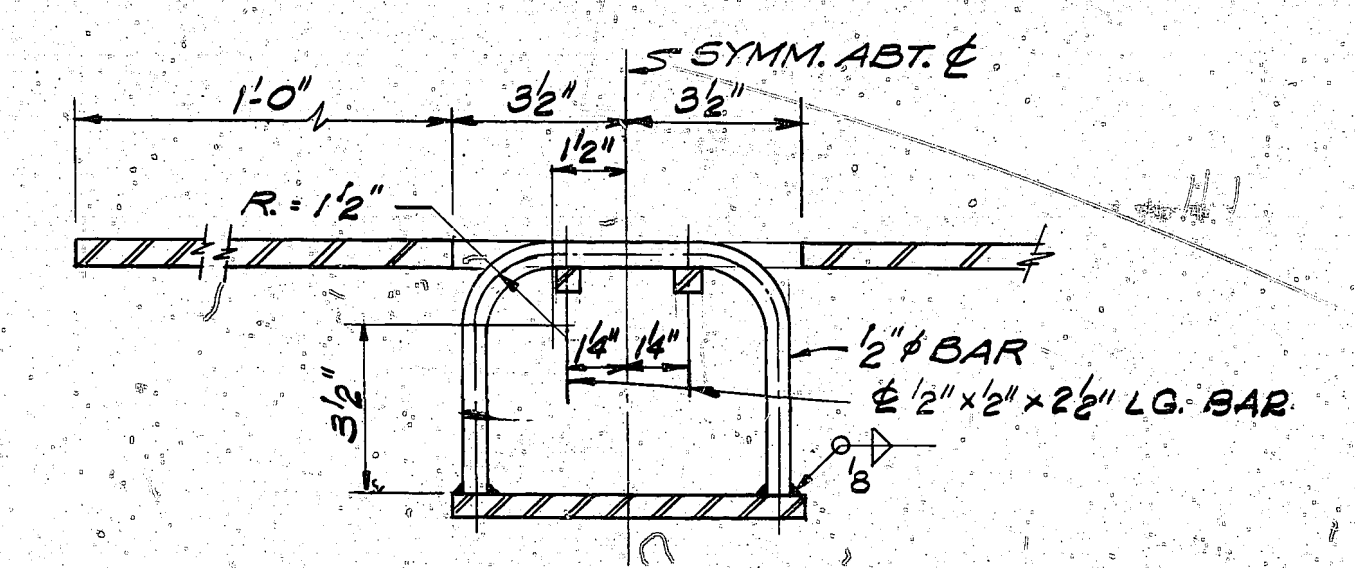
SECTION C
SCALE: 1" = 1'-0" (6/8)



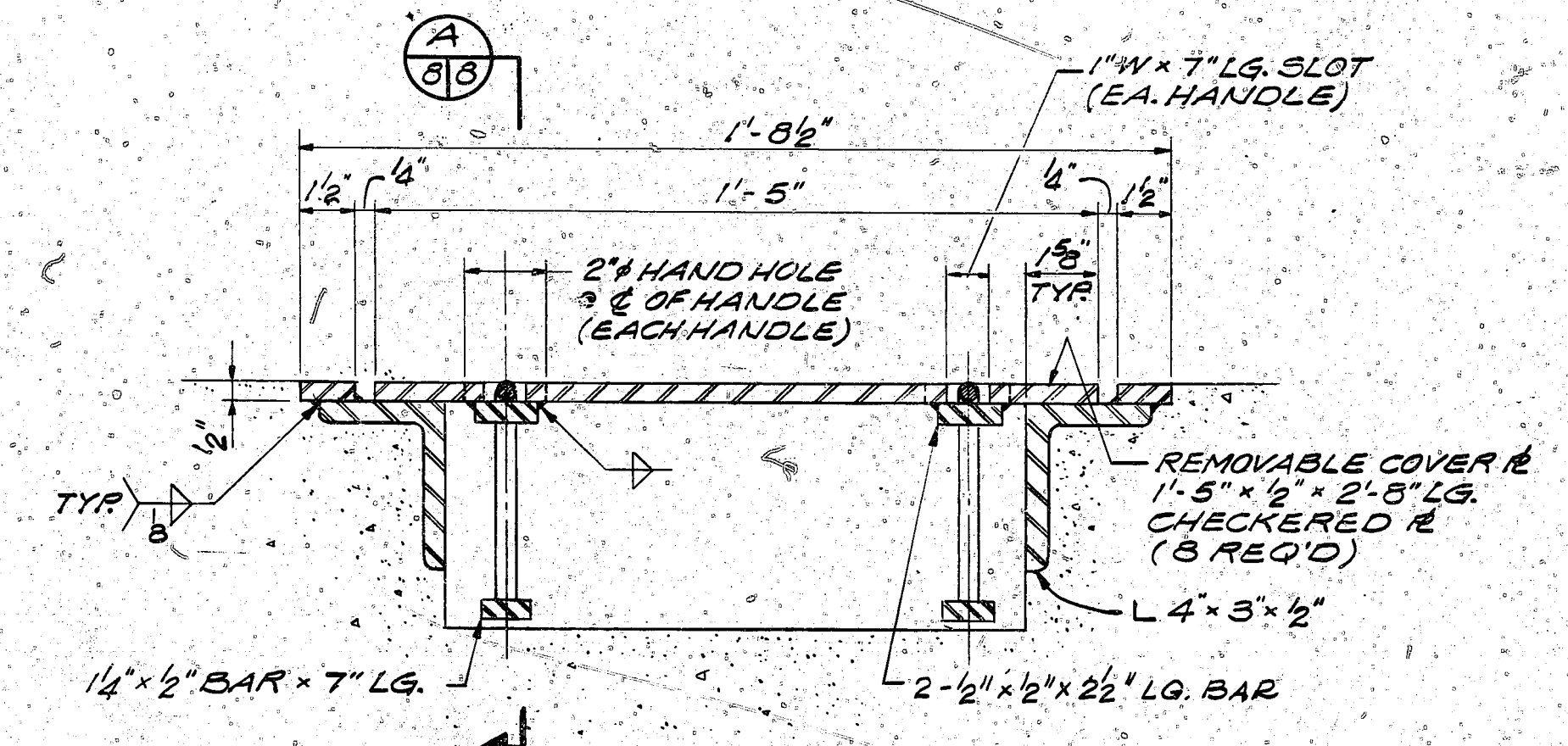
ELECTRICAL INSTALLATION DIAGRAM
DOOR #1 [2]



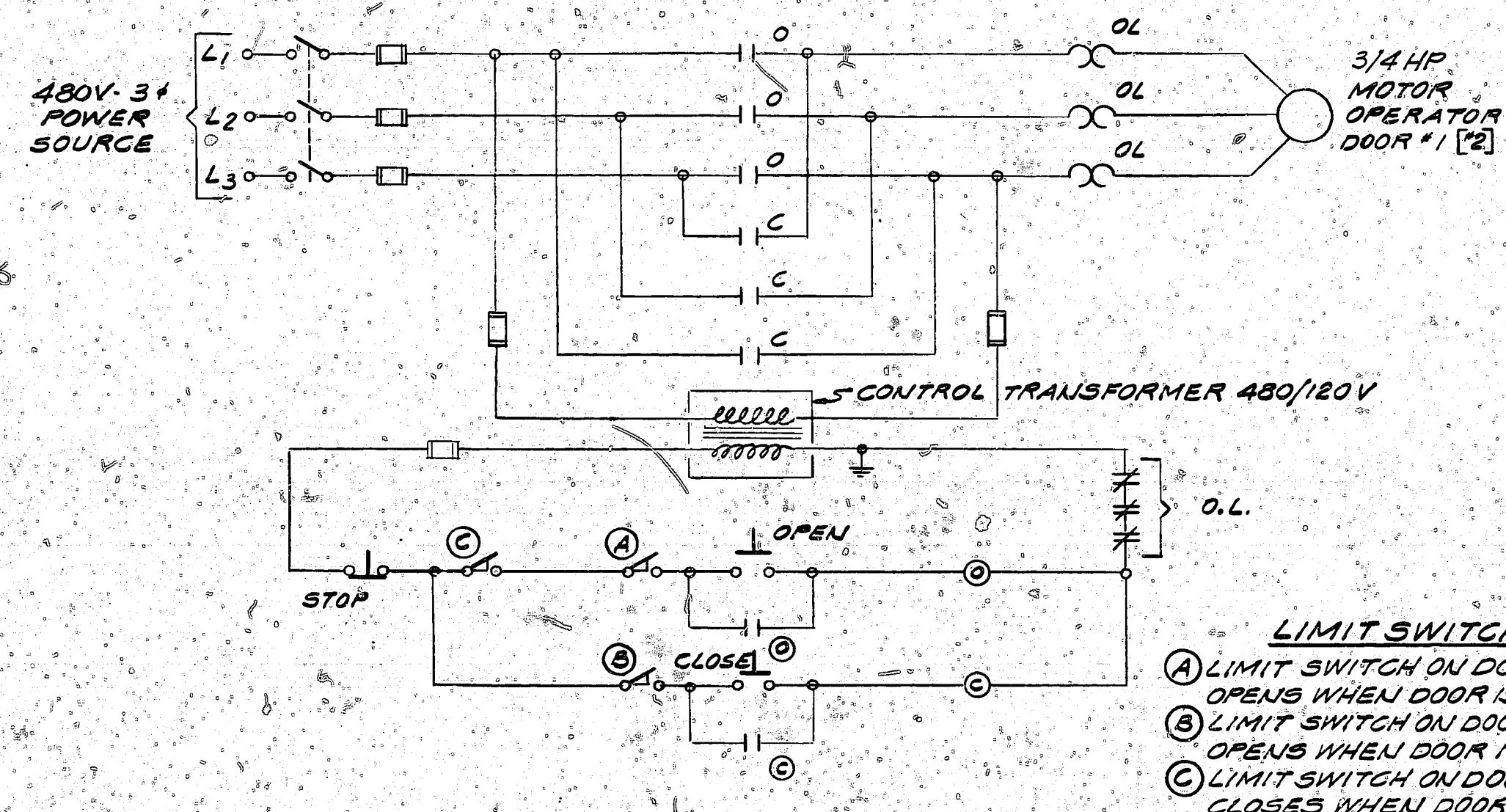
ELECTRICAL INSTALLATION DIAGRAM
DOOR #3



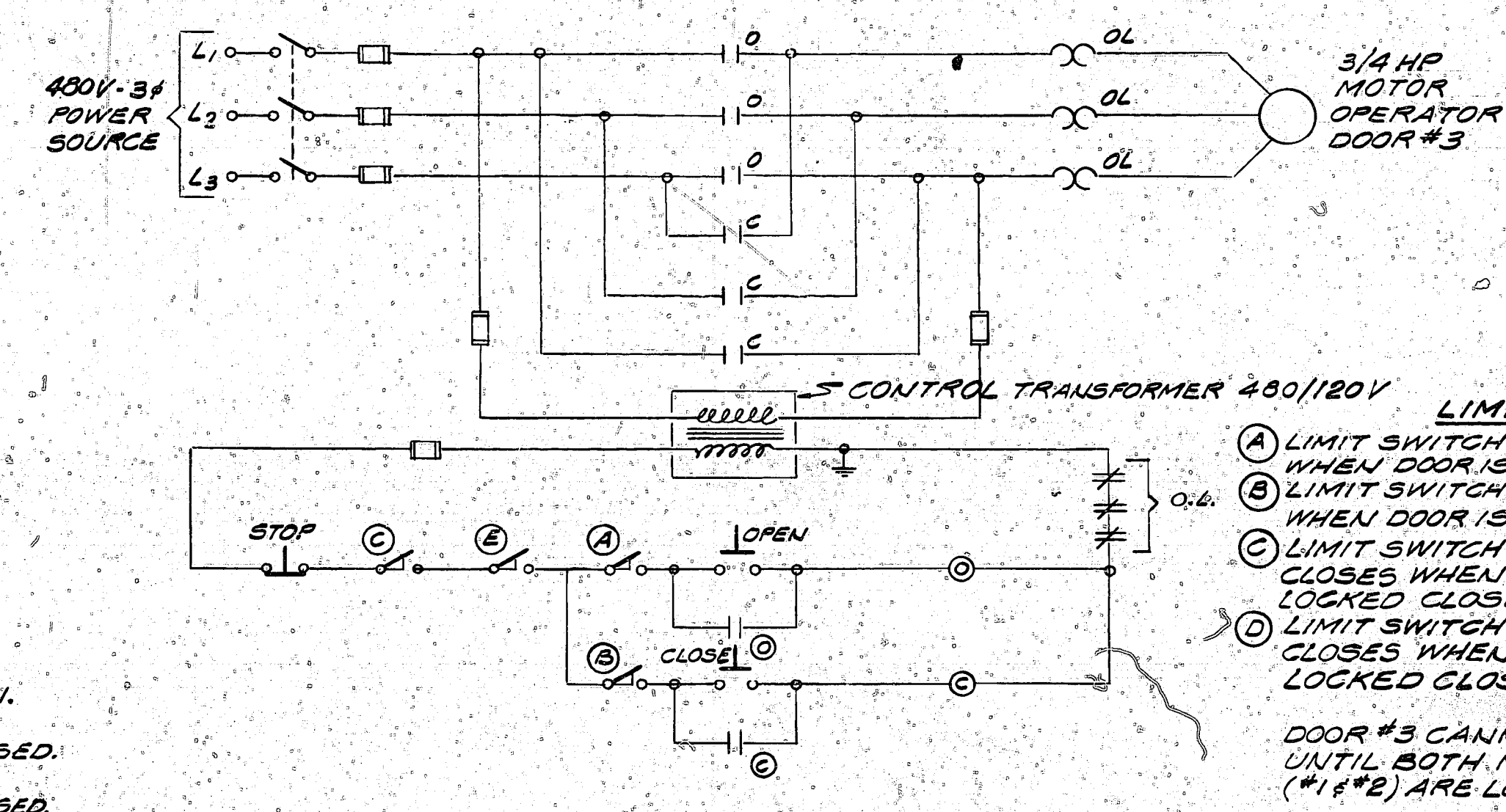
SECTION A
SCALE: 3/4" = 1'-0" (6/8)



DETAIL 2
SCALE: 3/4" = 1'-0" (6/8)
DOOR TRENCH COVER PL'S



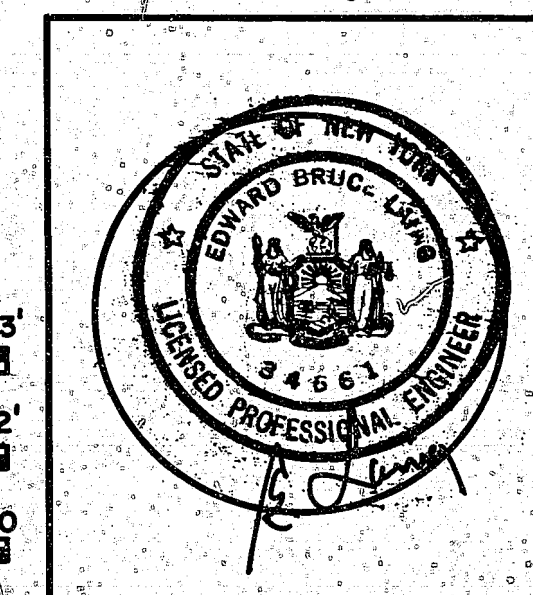
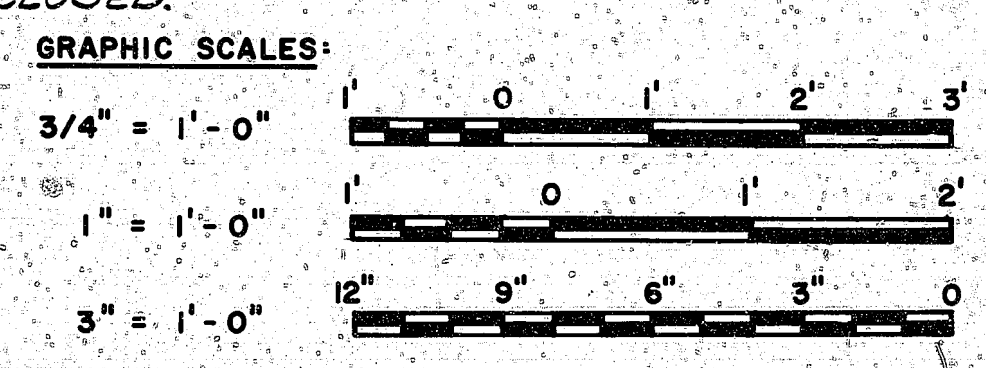
ELECTRICAL SCHEMATIC DIAGRAM
DOOR #1 [2]



ELECTRICAL SCHEMATIC DIAGRAM
DOOR #3

LIMIT SWITCHES
 (A) LIMIT SWITCH ON DOOR #1 [2] OPENS WHEN DOOR IS FULLY OPEN.
 (B) LIMIT SWITCH ON DOOR #1 [2] OPENS WHEN DOOR IS FULLY CLOSED.
 (C) LIMIT SWITCH ON DOOR #2 [1] CLOSSES WHEN DOOR IS FULLY CLOSED.
 DOOR #1 [2] CANNOT BE OPENED AS LONG AS DOOR #2 [1] IS OPEN.
 DOOR NUMBER IN BRACKET THUS [], INDICATES OPERATION FOR THAT DOOR ONLY.

LIMIT SWITCHES
 (A) LIMIT SWITCH ON DOOR #3 OPENS WHEN DOOR IS FULLY OPEN.
 (B) LIMIT SWITCH ON DOOR #3 OPENS WHEN DOOR IS FULLY CLOSED.
 (C) LIMIT SWITCH ON MANDOOR #1 CLOSSES WHEN MANDOOR IS LOCKED CLOSED.
 (D) LIMIT SWITCH ON MANDOOR #2 CLOSSES WHEN MANDOOR IS LOCKED CLOSED.
 DOOR #3 CANNOT BE OPENED UNTIL BOTH MANDOORS (#1 & 2) ARE LOCKED CLOSED.



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| AMMANN & WHITNEY CONSULTING ENGINEERS TWO WORLD TRADE CENTER N.Y., N.Y. SUPPLY NO. DATE FIRM MEMBER (TITLE) DATE NAVFAC/ NORTHERN DIVISION NAVFAC NO. 1000 P.O. BOX 1000 APPROVED DATE FOR COMMANDER NAVFAC | DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332 BOX MAGAZINE TYPE B STANDARD SLIDING DOORS SECTIONS DETAILS & ELECTRICAL SCHEMATIC DIAGRAMS SIZE CODE IDENT NO. NAVFAC DRAWING NO. 80091 1404025 SCALE AS NOTED SHEET 8 OF 8 |
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