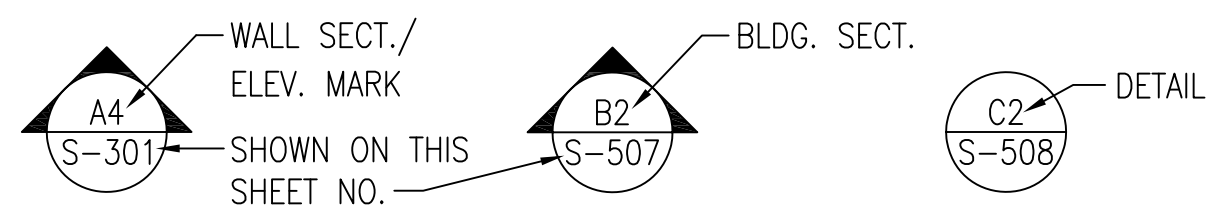


1. ALL STEEL DOORS AND FRAMES SHALL BE ELECTRICALLY BONDED TO THE MAGAZINE REINFORCING CAGE.
2. ALL STRUCTURAL AND MISCELLANEOUS ITEMS EMBEDDED IN CONCRETE SHALL BE ELECTRICALLY BONDED TO THE REINFORCING CAGE BY WIRE TIES.
3. THE REINFORCING CAGE SHALL BE MADE ELECTRICALLY CONTINUOUS BY WIRE TIES AT A MINIMUM OF 4'-0" ON CENTERS IN ANY DIRECTION.
4. ALL WALL AND CONSTRUCTION JOINTS SHALL BE ELECTRICALLY BONDED. SEE THE ELECTRICAL DRAWINGS FOR DETAILS.



- | | | |
|--|---|--------------------|
| A. DESIGN SOIL BEARING PRESSURE | — | 4,000 PSF |
| B. DESIGN DYNAMIC RESPONSE FACTOR (SOIL BEARING) | — | 2.5 |
| C. DESIGN LATERAL SOIL PRESSURE COEF. : | | |
| 1. MAGAZINE WALLS | — | 0.5 |
| 2. WING WALLS | — | 0.3 |
| D. DESIGN COEF. OF FRICTION (CONC. ON SOIL) | — | 0.50 |
| e. MODULUS OF SUBGRADE REACTION | — | 150 PCI TO 250 PCI |

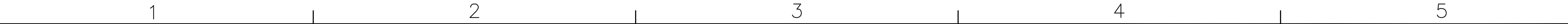
- | | |
|------------------------|--------|
| A. ROOF SLAB | = 8 ° |
| B. HEAD WALL | = 6 ° |
| C. HEADER BEAM | = 2 ° |
| D. PILASTERS X_M/X_E | = 3.0 |
| E. BLAST DOORS | = 12 ° |

1. FOUNDATIONS SHALL BE REVISED TO REFLECT SPECIFIC SITE SOIL CONDITIONS.
 - A. IF THE DEPTH OF FOOTINGS (SIDEWALLS, BACKWALL, COLUMNS, PILASTERS AND GRADE BEAMS) HAVE TO BE INCREASED EITHER BECAUSE OF THE DEPTH OF FROST OR TO OBTAIN SUITABLE SOIL BEARING CAPACITY AS SPECIFIED, THE VOLUME OF SOIL BETWEEN THE DEPTH OF THE FOOTING SHOWN ON THE DRAWING AND THE DEPTH REQUIRED SHALL BE REPLACED WITH CONCRETE.
 - A. RETAINING WALLS WHOSE FOOTING DEPTHS MUST BE INCREASED FOR FROST SHALL BE REDESIGNED. IF THE SOIL BEARING CAPACITY IS LESS THAN THAT SPECIFIED THEN THE RETAINING WALL FOOTINGS MUST BE REDESIGNED.
2. THE FLOOR SLAB AND TRENCH COVER MUST BE REDESIGNED IF WHEEL LOADING WILL BE SIGNIFICANTLY HIGHER THAN THE DESIGN LOADING. MUST BE VERIFIED AT LOCATIONS UTILIZING A SIDE LOADING LIFT TRUCK.
3. DESIGN CONSIDERATIONS (TO BE COORDINATED WITH CONTRACTING OFFICER):
 - A.) HIGH SECURITY LOCKING DEVICE – STANDARD OR ILD (INTERNAL LOCKING DEVICE).
 - B.) LOADING PLATFORM OR CONCRETE PAD.
 - C.) HEAT TRACING REQUIREMENT (SEE NOTES TO DESIGNER ON SHEET E-001 & E-801).
 - D.) HAZARDOUS ELECTRICAL EQUIPMENT REQUIREMENT (SEE NOTES TO DESIGNER ON SHEET E-001).
 - E.) TEST WELL LOCATIONS (SEE NOTES TO DESIGNER ON SHEET E-103.)
4. SHEETS S-513 & S-513(ALT) IDENTIFY DIFFERENT LOCKING SYSTEMS. THE EOR SHALL VERIFY THE CORRECT LOCKING SYSTEM REQUIRED AND REMOVE THE REDUNDANT SHEET FROM THE CONSTRUCTION CONTRACT DOCUMENTS FOR THE SYSTEM NOT USED (COORDINATE WITH CONTRACTING OFFICER).
5. PROVIDE COATING AND PAINTING SPECIFICATIONS AS PART OF THE CONSTRUCTION CONTRACT DOCUMENTS THAT REQUIRES THE FOLLOWING FOR THE STEEL SLIDING DOORS:
 - A. ALL DUST, DIRT, OIL, GREASE, WELD FLUX RESIDUE, LOOSE DIRT & OTHER FOREIGN MATTER THAT MAY INHIBIT COATING BOND TO STRUCTURAL STEEL SHALL BE REMOVED IN THE SHOP IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL (SSPC), SPG.
 - B. EXCEPT FOR CONTACT SURFACES OF MOVING PARTS, ALL EXPOSED SURFACES OF STRUCTURAL STEEL SHALL RECEIVE 1.5 MIL (DRY) COAT OF ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645. 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.
 - C. ALL EXPOSED SURFACES OF STRUCTURAL STEEL SHALL RECEIVE TWO FIELD COATS OF COATING WITH A MINIMUM THICKNESS OF 4.0 MIL (DRY) CONFORMING TO FEDERAL SPECIFICATION TT-P-102 OR TT-P-37.

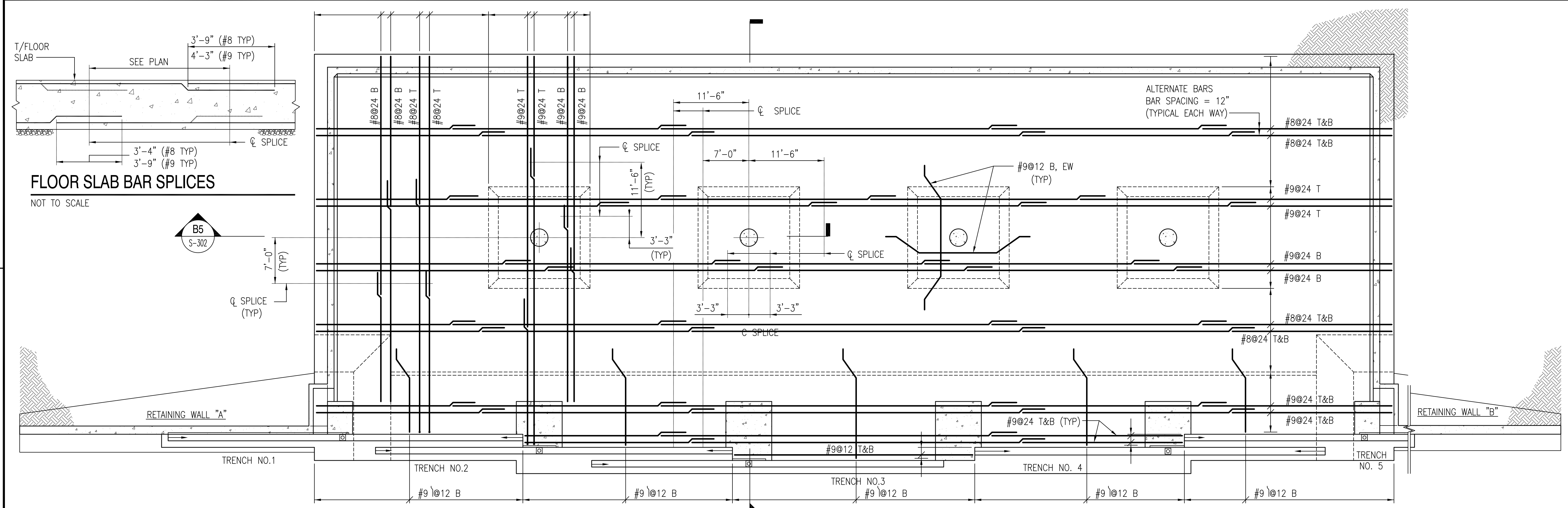
1. THIS STANDARD WAS APPROVED ORIGINALLY BY THE DDESB FOR CONSTRUCTION AS A 7-BAR STRUCTURE FOR EXPLOSIVE WEIGHTS UP TO 350,000 POUNDS OF (NEW) HAZARD DIVISION (HD) 1.1 MATERIAL. SUBSEQUENTLY THE STANDARD WAS APPROVED FOR EXPLOSIVE WEIGHTS UP TO 500,000 POUNDS (NEW).
2. ANY DEVIATION FROM THE STANDARD APPROVED DRAWINGS, EXCEPT FOR FOUNDATION MODIFICATIONS, WITHOUT THE WRITTEN APPROVAL FROM THE DEPARTMENT OF DEFENSE EXPLOSIVE SAFETY BOARD (DDESB) MAY REQUIRE THE MAGAZINE TO BE CONSIDERED AN UNDEFINED MAGAZINE AND MAY SEVERELY RESTRICT THE ALLOWABLE STORAGE CAPACITY.

THESE DRAWINGS ARE AN EXACT REPLICA OF THE DEFINITIVE SET
DESIGNED BY: AMMANN & WHITNEY, CONSULTING ENGINEERS
PROJECT TITLE: STANDARD BOX MAGAZINE TYPE 'D'
NAVFAC DRAWING NUMBER: 6448522 - 6448554 DATE: 17 MAY 1997
NUMBER OF SHEETS: 33

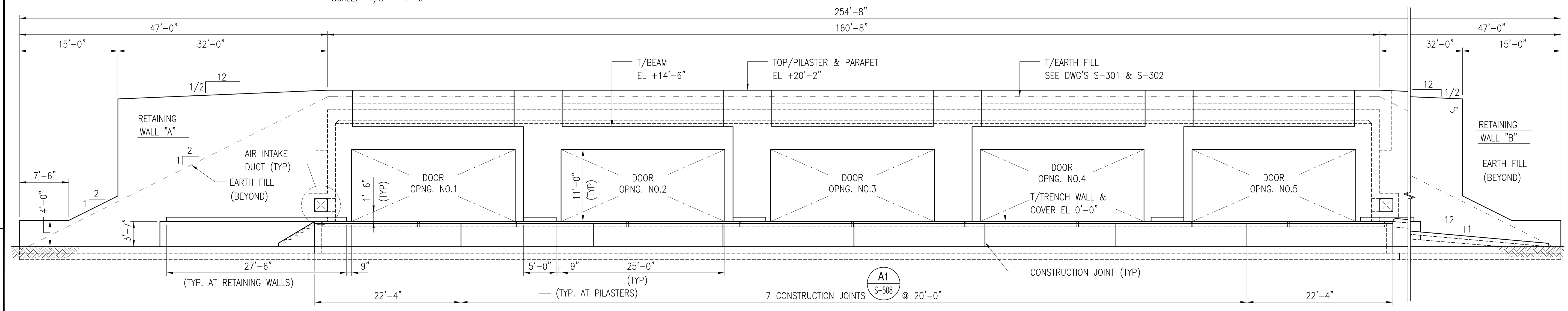
THE STRUCTURAL DESIGN IN THESE UPDATED STANDARD DRAWINGS DOES NOT SUBSTANTIALLY DEVIATE FROM THE ORIGINAL STANDARD. SOME ASPECTS OF THE ELECTRICAL DESIGN HAVE BEEN MODIFIED FROM THE ORIGINAL STANDARD.



FILE NAME: J:\CISE\Magazines\Box D FINAL\Final Drawings Box D with Platform\AutoCAD\BOX D WITH PLATFORM.dwg LAYOUT NAME: S-102 PLOTTED: Wednesday, September 26, 2012 - 9:54am

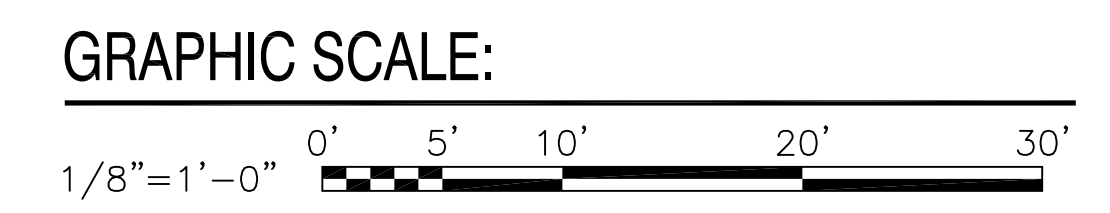


FLOOR SLAB PLAN
SCALE: 1/8" = 1'-0"

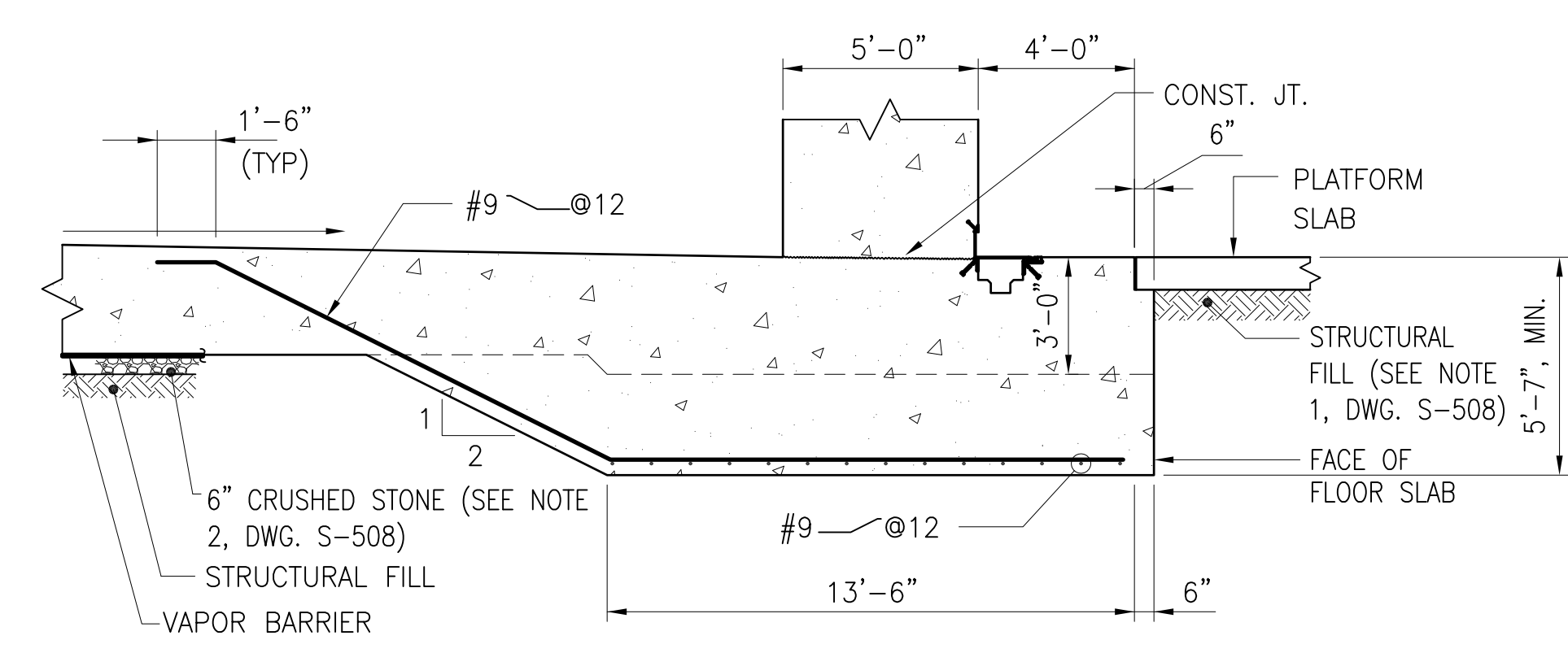


ELEVATION
SCALE: 1/8" = 1'-0"

- NOTES:
- FOR "RETAINING WALL ELEVATION" SEE DWG. S-103.
 - FOR ADDITIONAL REINFORCING AT DOOR TRENCHES SEE DWG'S S-503 AND S-504.
 - FOR STAGGERED SPLICES: BAR SPLICES INDICATED THUS STAGGER ALTERNATE BAR SPLICES AS INDICATED ON PLAN SEE SECTION "FLOOR SLAB BAR SPLICES" THIS DWG.

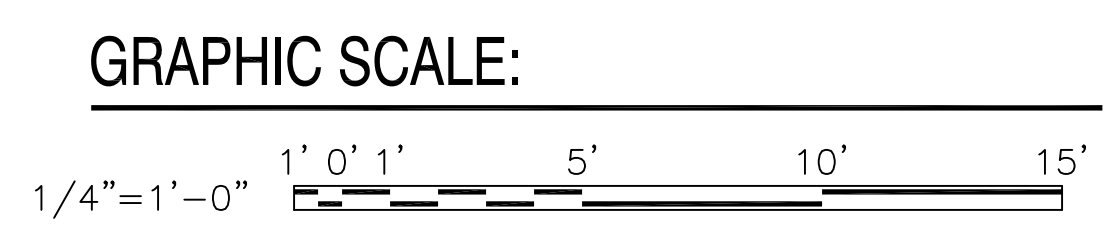


APPROVED	DATE	APPR
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
DES	DRW	CHK
PM/DM		
BRANCH MANAGER		
CHIEF ENG/ARCH	EJG	
FIRE PROTECTION		
DEPARTMENT OF THE NAVY		
NAVAL FACILITIES ENGINEERING COMMAND		
NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC		
LANT CAPITAL IMPROVEMENTS		
NORFOLK, VIRGINIA		
TYPE D BOX MAGAZINE WITH LOADING PLATFORM		
SLAB PLAN AND FRONT ELEVATION		
SCALE: AS NOTED		
PROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	14021408	
SHEET	3	OF 38
S-102		
DRAWFORM REVISION: 10 MARCH 2009		



SECTION _____ SCALE: 1/4" = 1'-0" S-103 C5

S-101 C3



S-101 **A3**

A

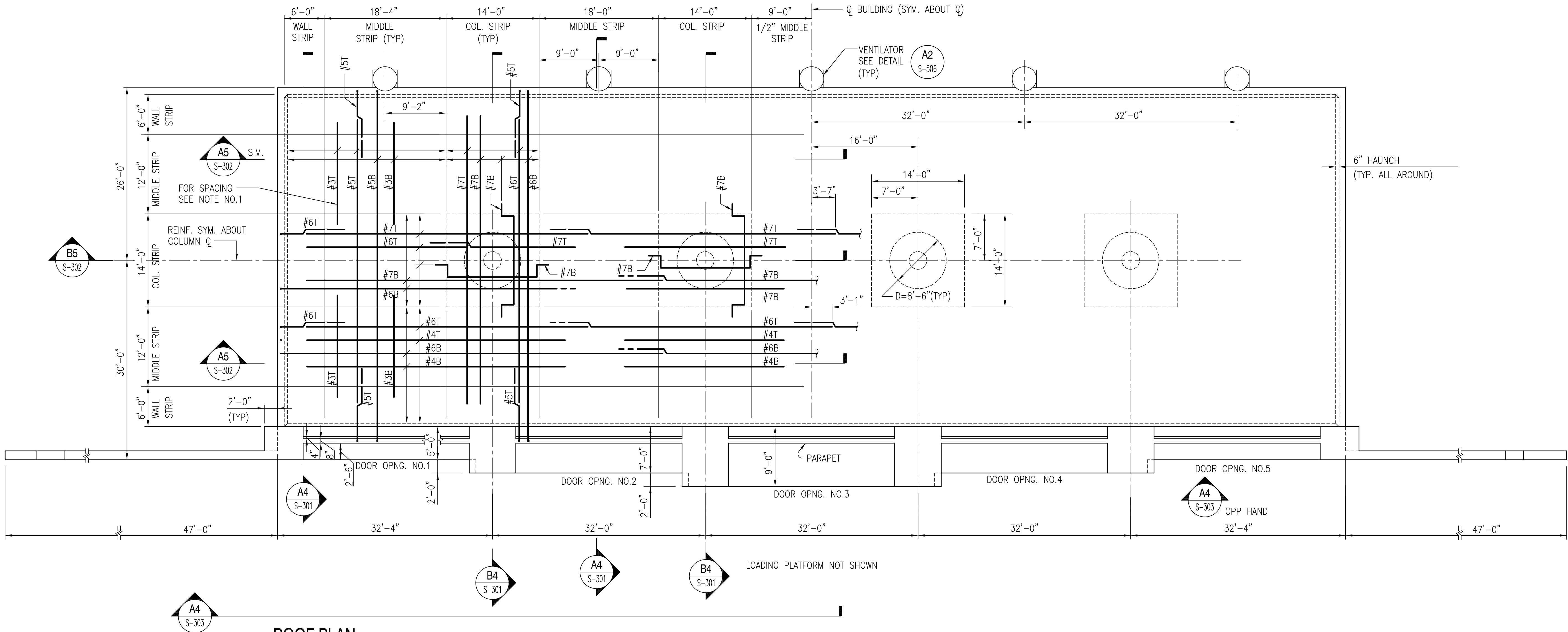
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D

C

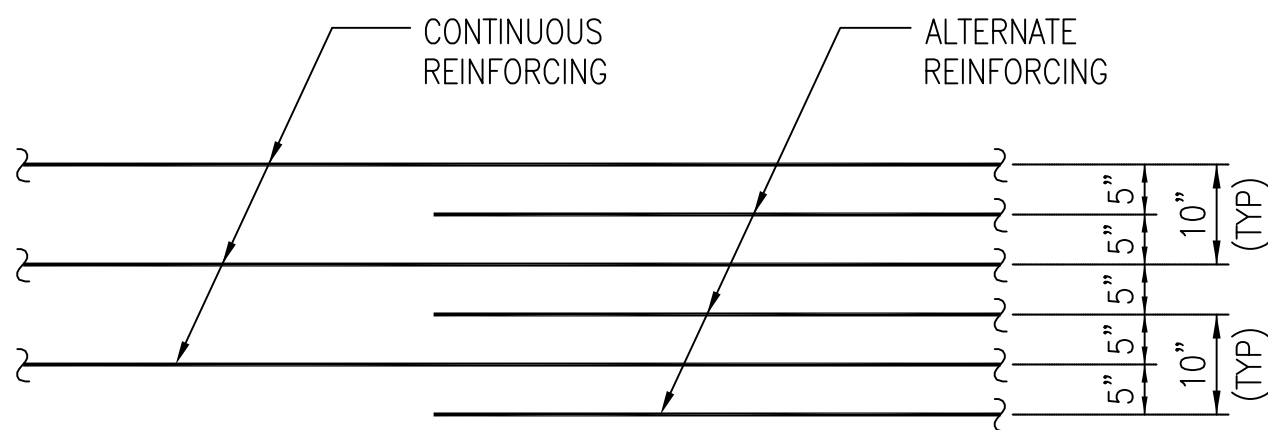
B

A



ROOF PLAN

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

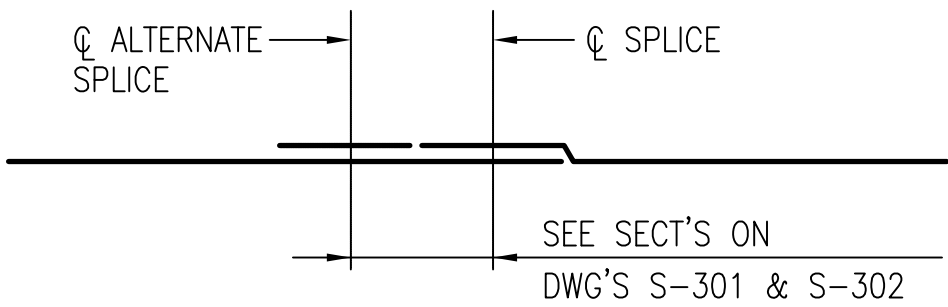


TYPICAL SPACING OF ROOF REINFORCEMENT

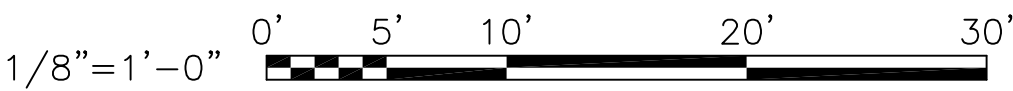
NOT TO SCALE

NOTES:

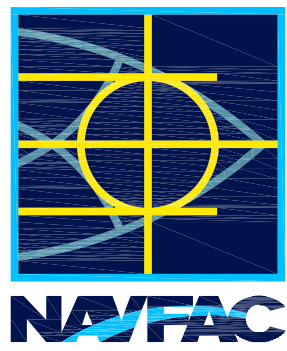
- ALL REINFORCING BARS SHALL BE SPACED AT 10" O.C. UNLESS NOTED OTHERWISE. SEE "TYPICAL SPACING OF ROOF REINFORCEMENT" THIS DRAWING.
- STAGGERED SPLICES SHOWN THUS



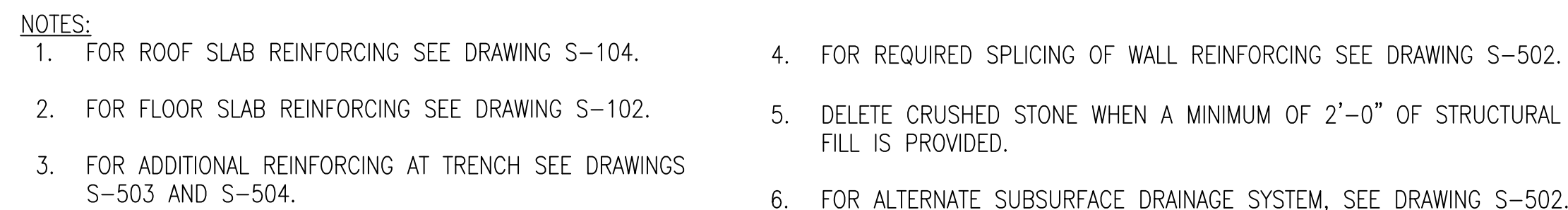
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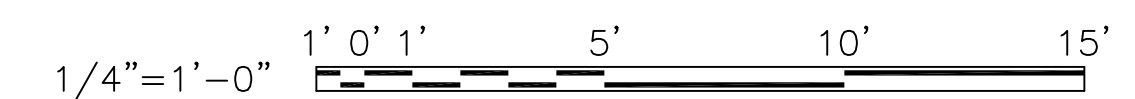
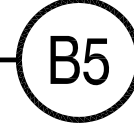


SYN	DESCRIPTION	DATE	APPR



DRAWFORM REVISION: 10 MARCH 2009

[illegible]

1.

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: J:\CISE\Magazines\Box D with Platform\AutoCAD\BOX D WITH PLATFORM.dwg LAYOUT NAME: S-303 PLOTTED: Wednesday, September 26, 2012 - 10:03am

D

C

B

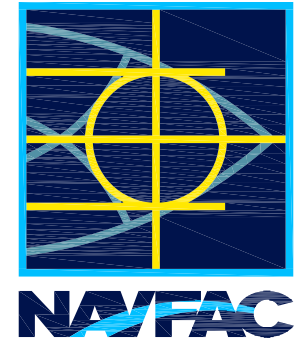
A

D

C

B

A



A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES ☐ DRW ☐ CHK ☐

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

EJG

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC

LANT CAPITAL IMPROVEMENTS

NORFOLK, VIRGINIA

TYPE D BOX MAGAZINE

WITH LOADING PLATFORM

HEADWALL/DOOR ELEVATION

AS NOTED

PROJECT NO.:

CONSTR. CONTR. NO.

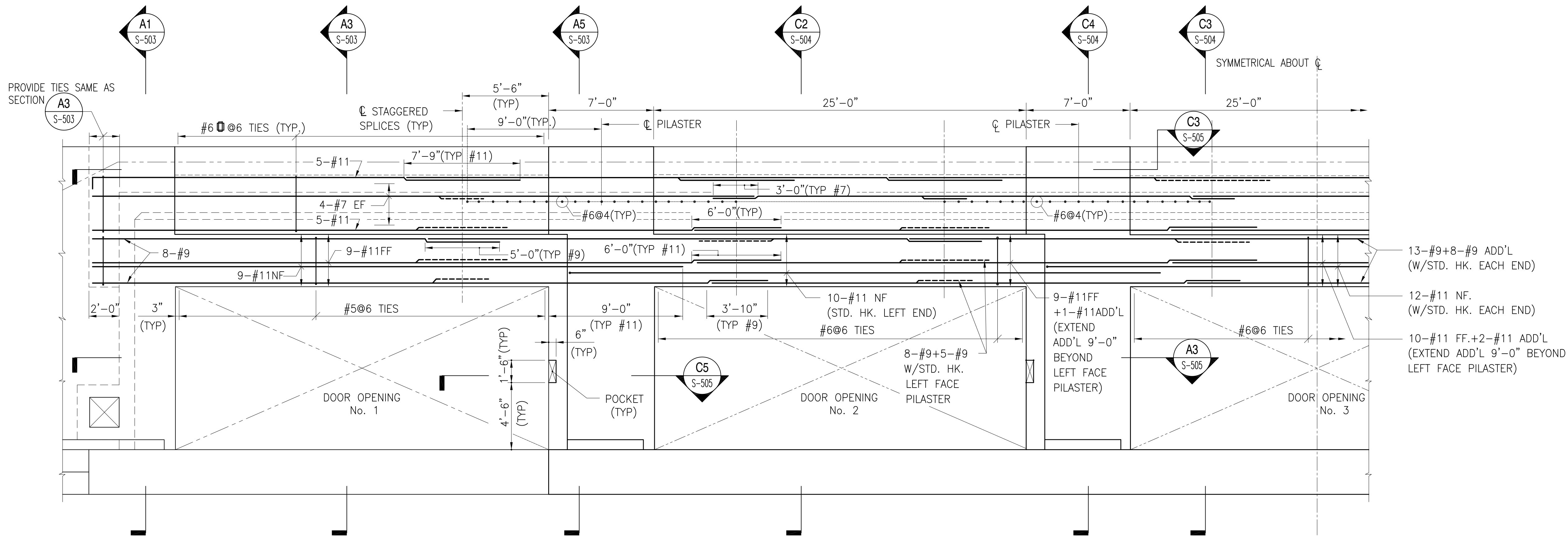
NAVFAC DRAWING NO.

14021413

SHEET 8 OF 38

S-303

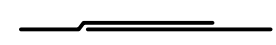
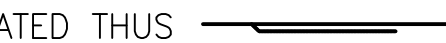
DRAWFORM REVISION: 10 MARCH 2009



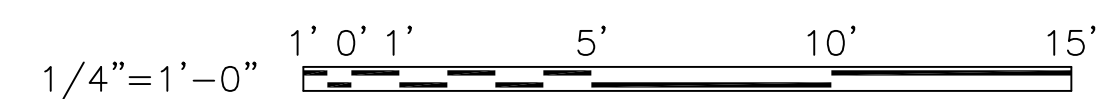
PARTIAL HEAD WALL ELEVATION

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

NOTES:

1. FOR RETAINING WALL REINFORCEMENT SEE RETAINING WALL ELEVATION AND SECTION DRAWINGS.
2. FOR STAGGERED SPLICES:
BAR SPLICE INDICATED THUS 
ALTERNATE BAR SPLICE INDICATED THUS 
3. ALL PILASTERS SHALL BE PLUMB, ALLOWABLE DEVIATION FROM THE VERTICAL SHALL NOT EXCEED 1/4" PER 10'-0" VERTICAL HEIGHT.

GRAPHIC SCALE:





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



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

- AND SECTION **B2**

1. SHEETS S-515 & S-515(ALT) IDENTIFY DIFFERENT LOCKING SYSTEMS. THE EOR SHALL VERIFY THE CORRECT LOCKING SYSTEM REQUIRED AND REMOVE THE REDUNDANT SHEET FROM THE CONSTRUCTION CONTRACT DOCUMENTS FOR THE SYSTEM NOT USED (COORDINATE WITH CONTRACTING OFFICER).

1/4" = 1' - 0"

1' 0' 1' 5' 10' 15'

[illegible]



SCALE: $1/8" = 1'-0"$

S-304 **C5**



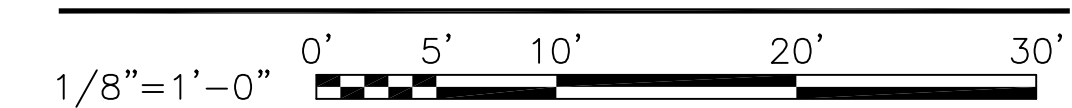
SCALE: $1/8" = 1'-0"$

S-304 B5



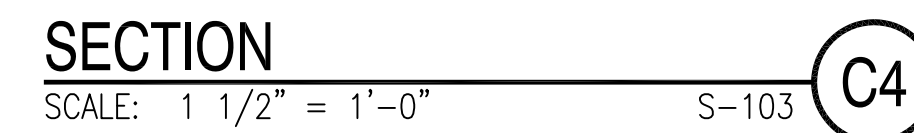
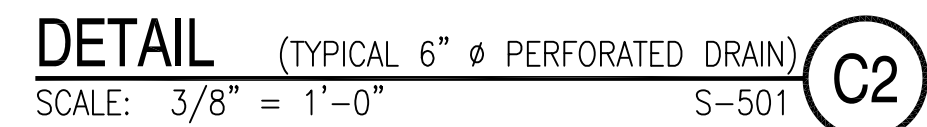
SCALE: $1/8" = 1'-0"$

S-304 **A5**

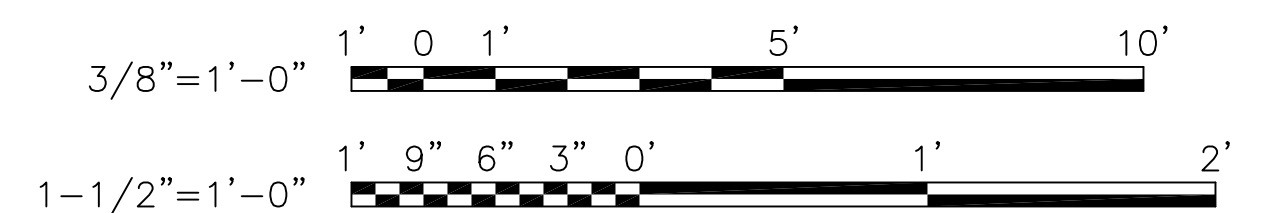


A/E INFO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC
PLANT CAPITAL IMPROVEMENTS
NORFOLK, VIRGINIA



GRAPHIC SCALE:

A

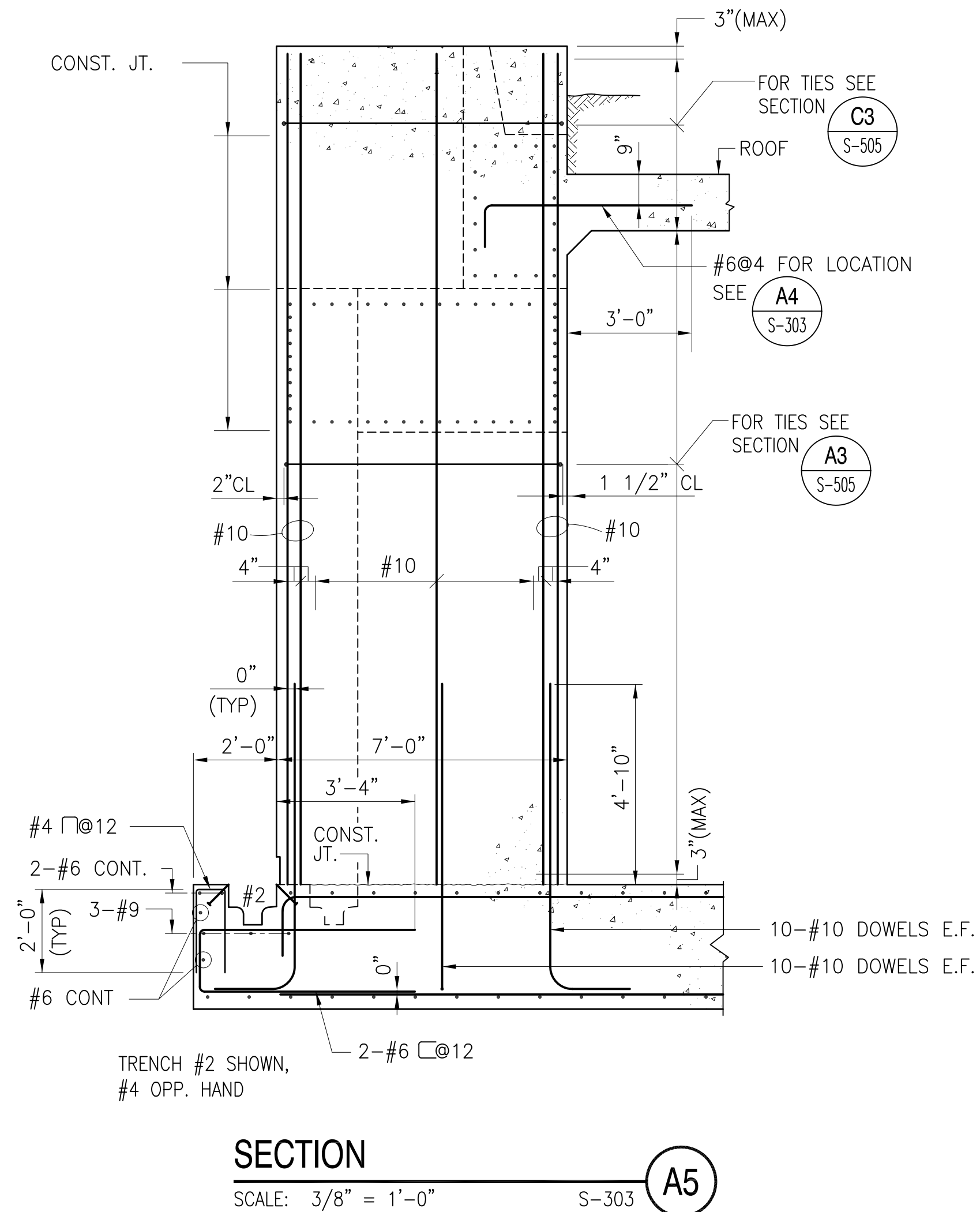
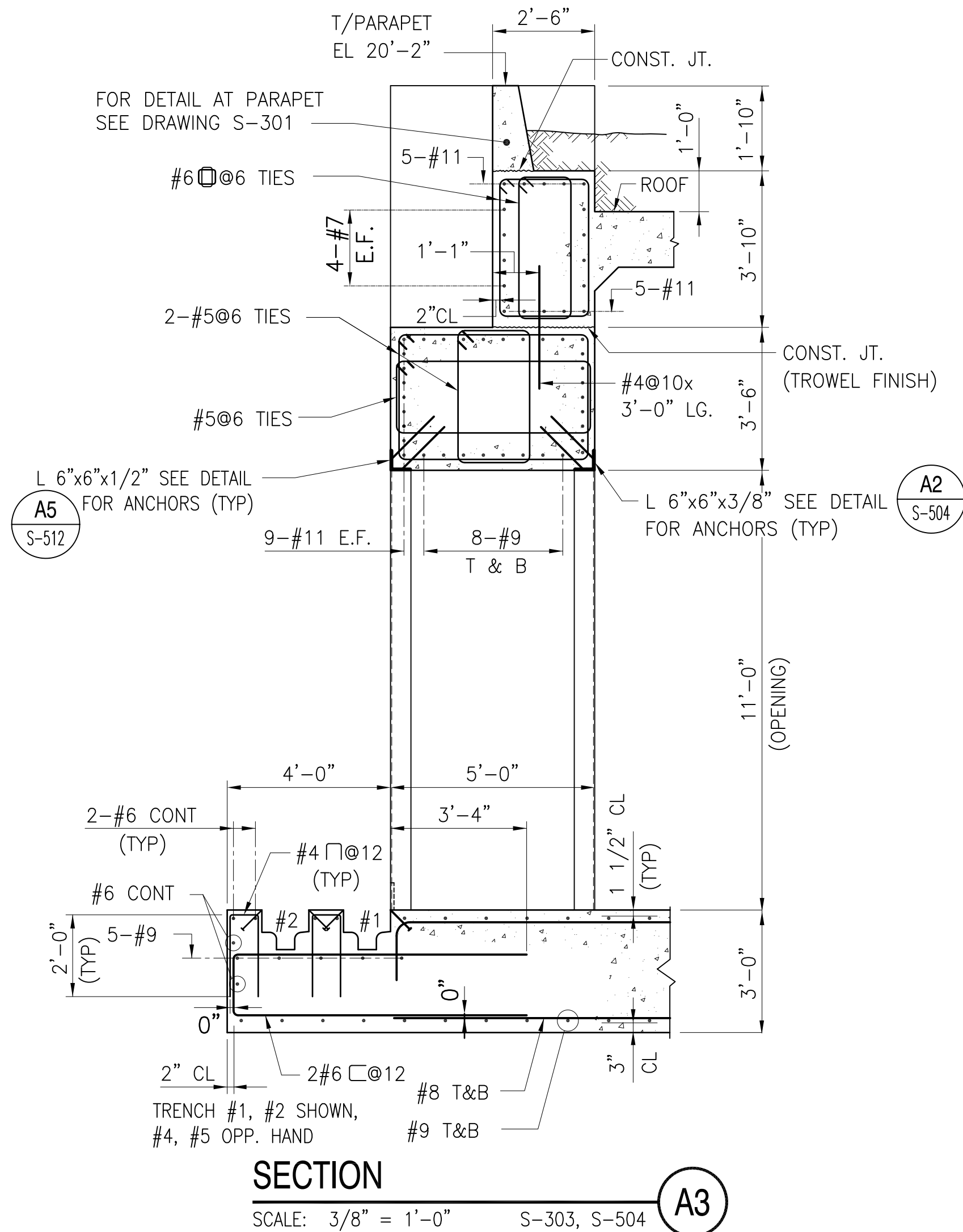
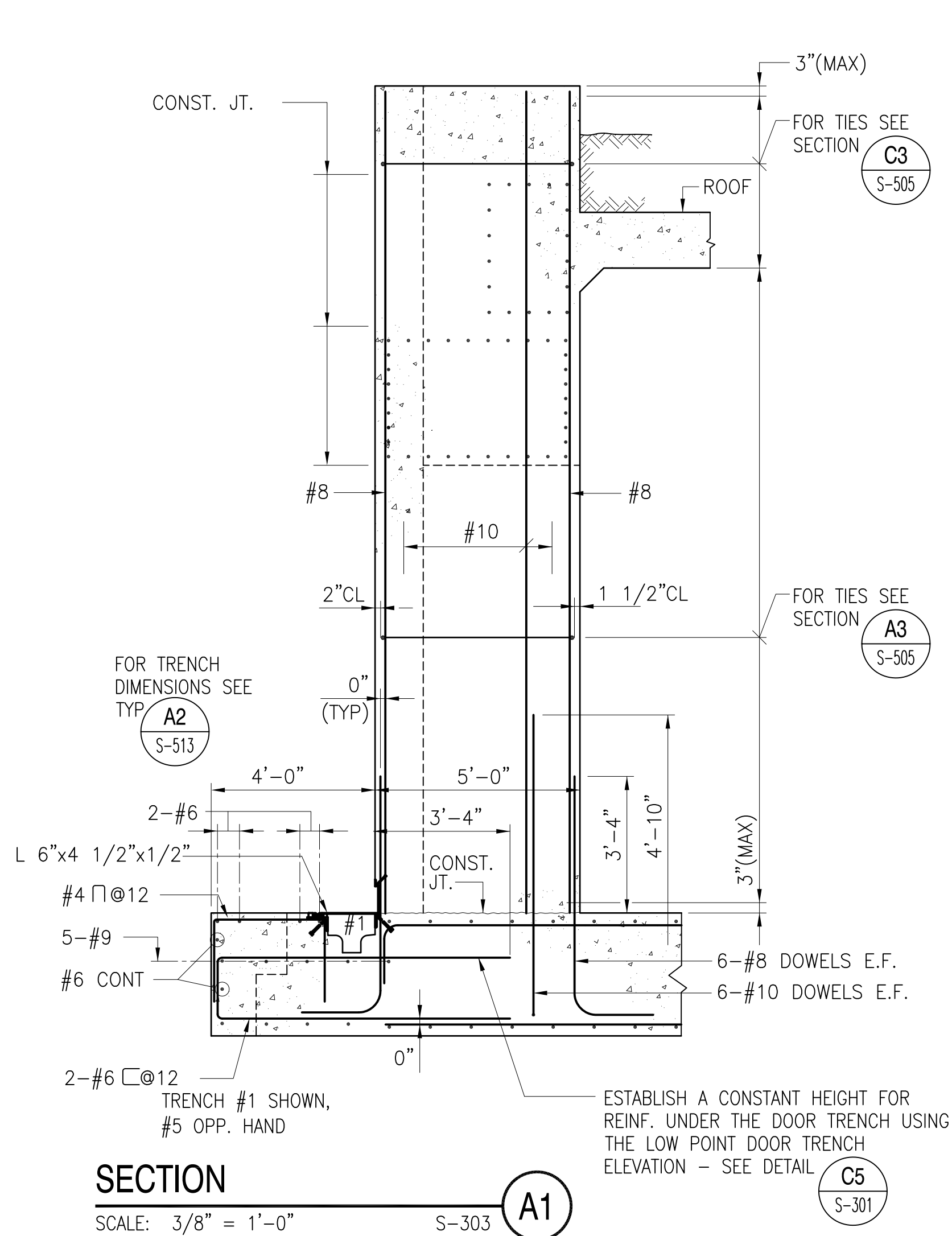
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D

C

B

A



GRAPHIC SCALE:



SYN	DESCRIPTION	DATE	APPR



SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES ☐ DRW ☐ CHK ☐

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

EJG

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC

LANT CAPITAL IMPROVEMENTS

NORFOLK, VIRGINIA

TYPE D BOX MAGAZINE

WITH LOADING PLATFORM

HEAD WALL SECTIONS

AS NOTED

PROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

14021418

SHEET 13 OF 38

S-503

DRAWFORM REVISION: 10 MARCH 2009

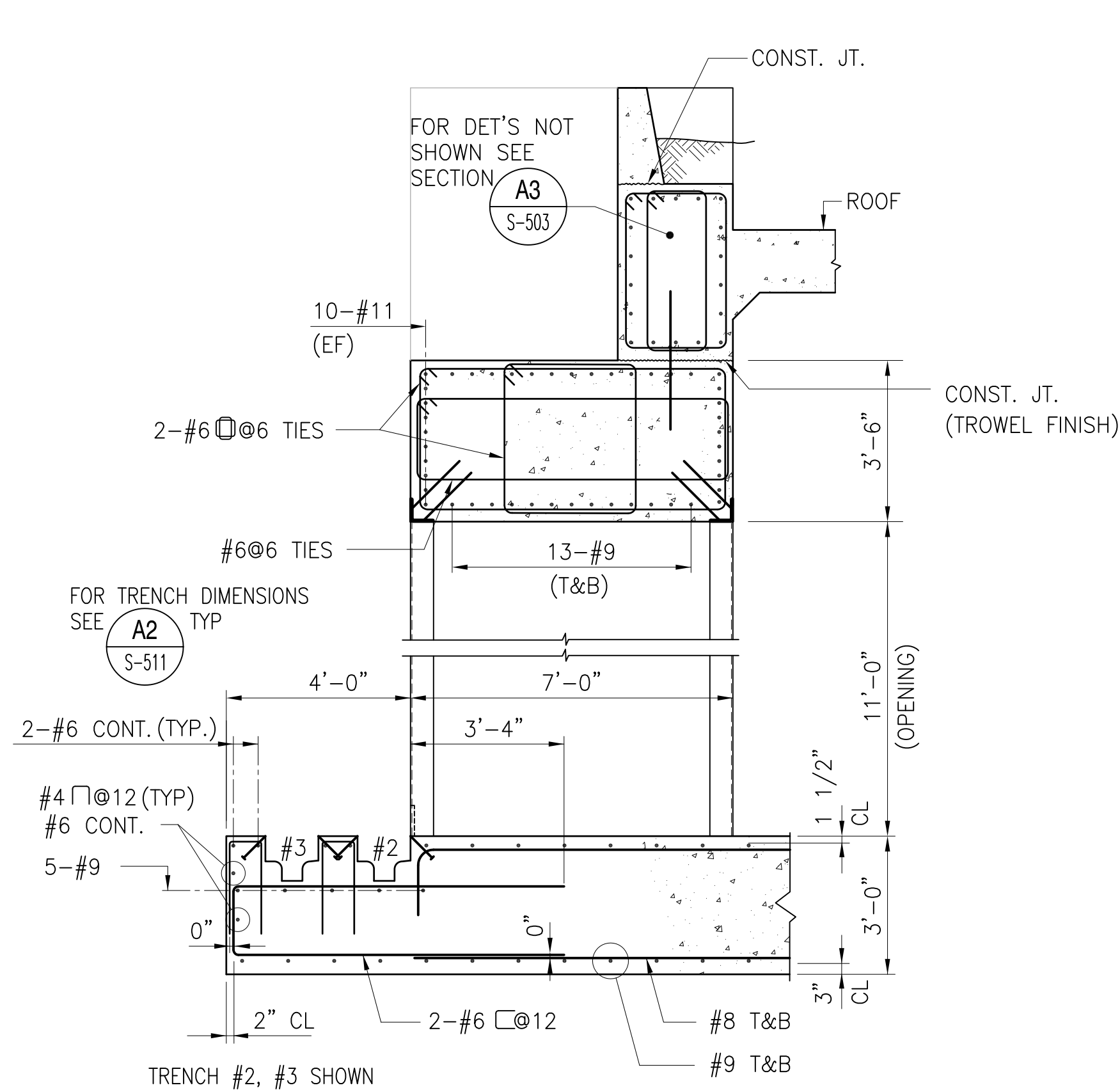
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D

C

B

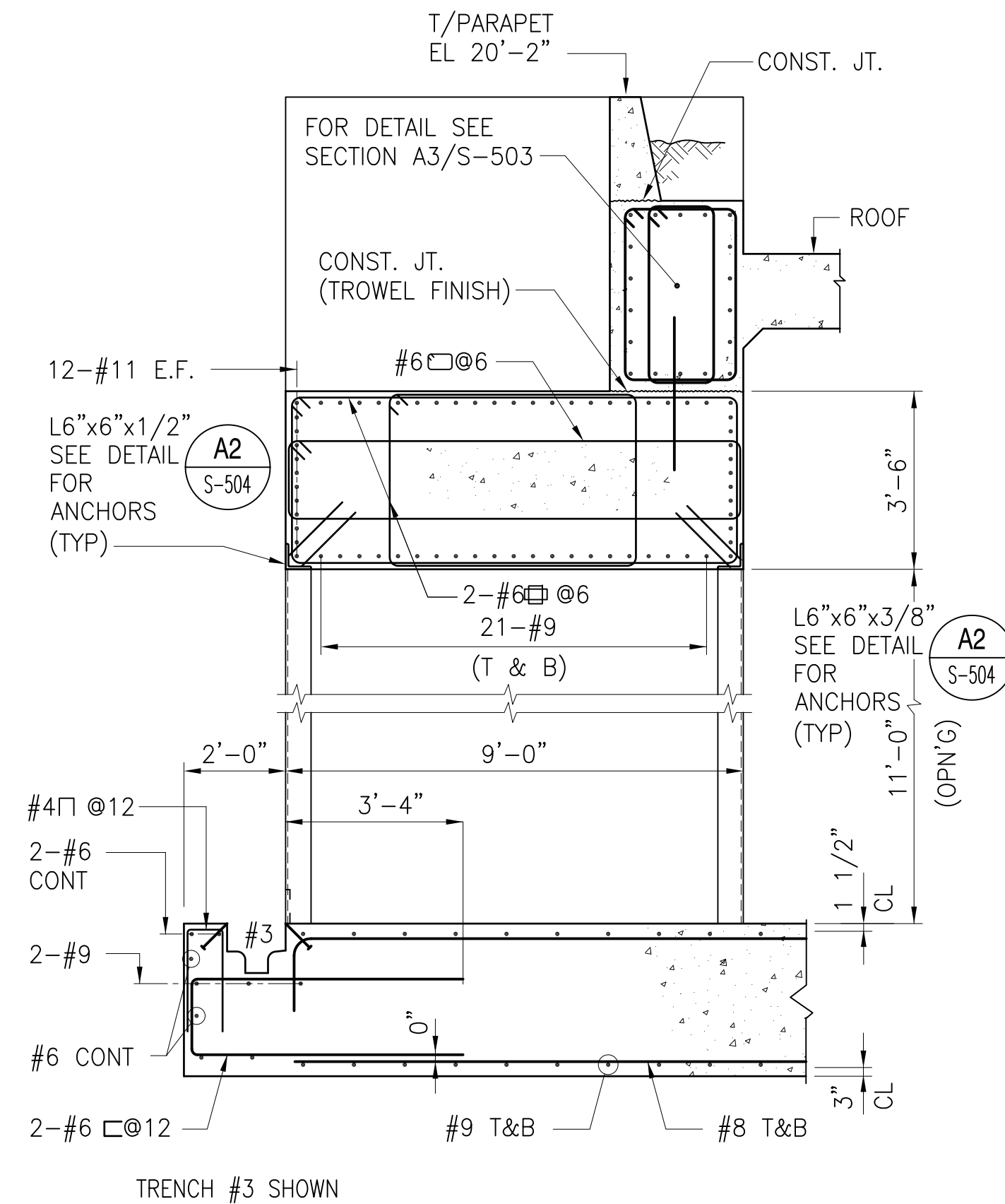
A



SECTION

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

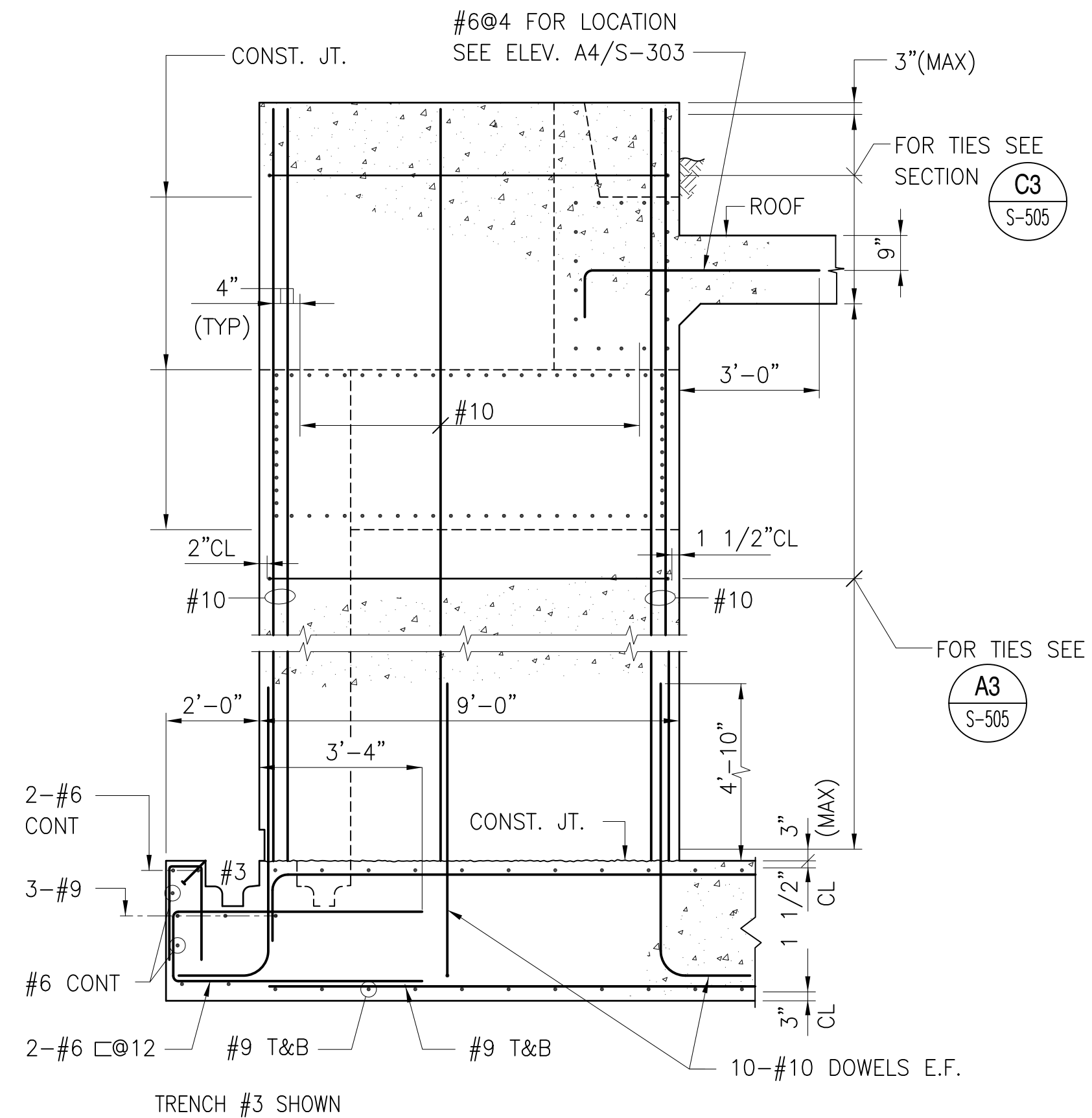
S-303 C2



SECTION

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

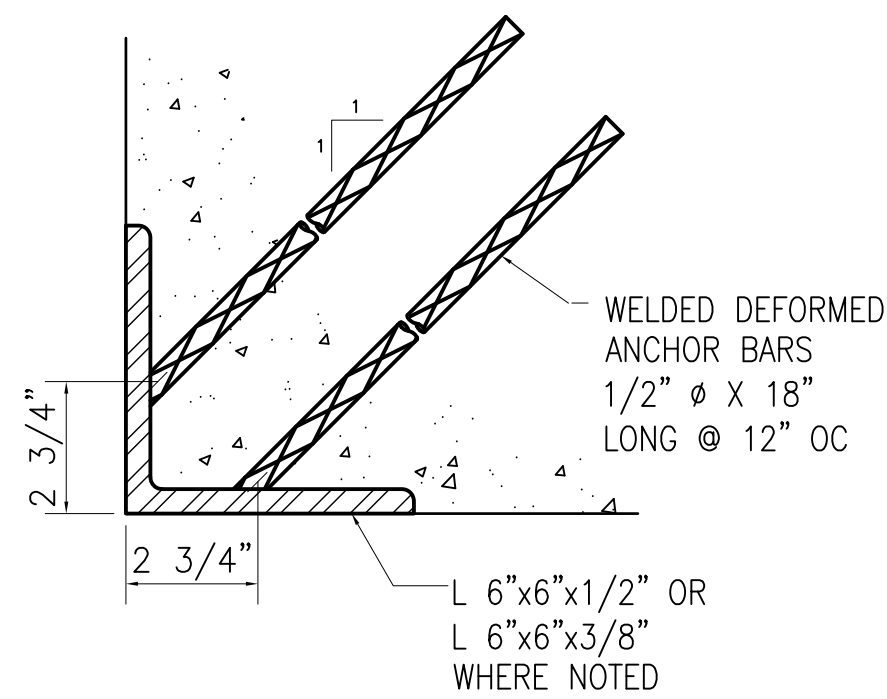
S-303 C3



SECTION

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

S-303 C4

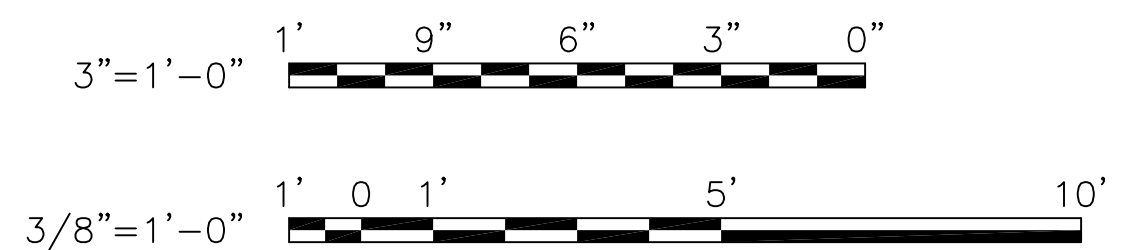


DETAIL

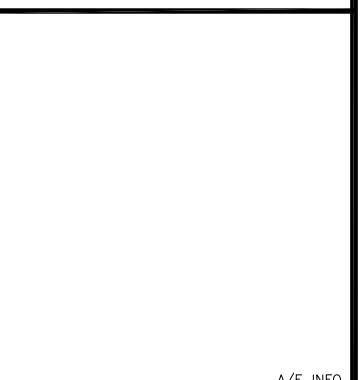
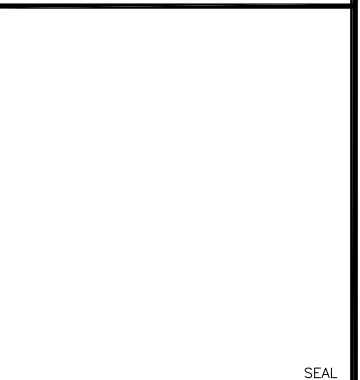
SCALE: 3" = 1'-0" S-503, S-504, S-505, S-512

A2

GRAPHIC SCALE:



SYN	DESCRIPTION	DATE	APPR



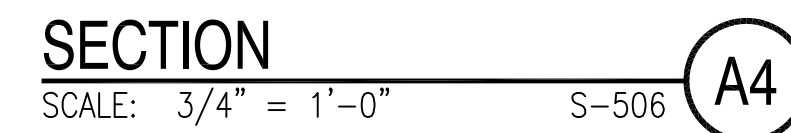
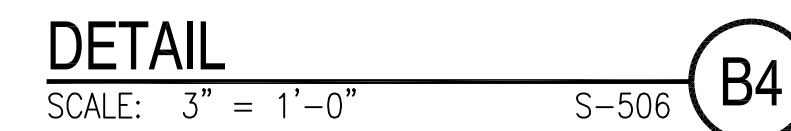
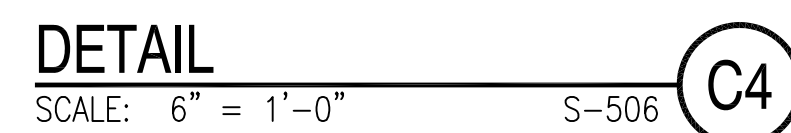
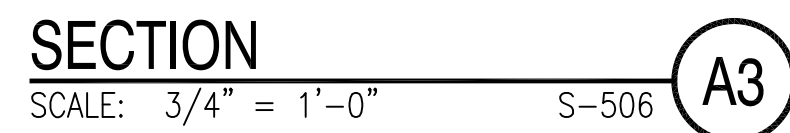
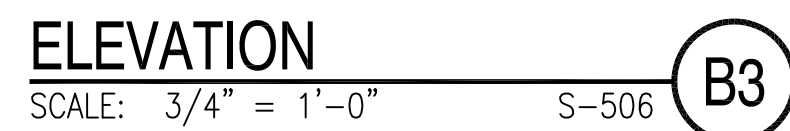
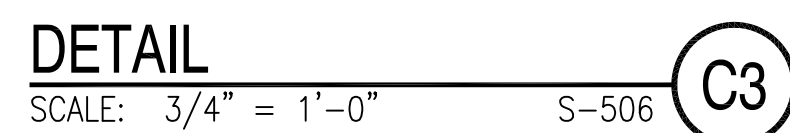
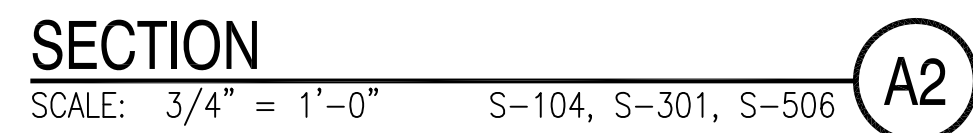
APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
DES	DRW	CHK
PM/DM		
BRANCH MANAGER		
CHIEF ENG/ARCH		EJG
FIRE PROTECTION		

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC	NORFOLK, VIRGINIA
LANT CAPITAL IMPROVEMENTS	
TYPE D BOX MAGAZINE WITH LOADING PLATFORM	
HEAD WALL SECTIONS	

SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	14021419
SHEET	14 OF 38
S-504	

DRAWING REVISION: 10 MARCH 2009





- GRAPHIC SCALE:

VE



C1



C3



7 C4



07 C5



B1



B3



S-507





A1

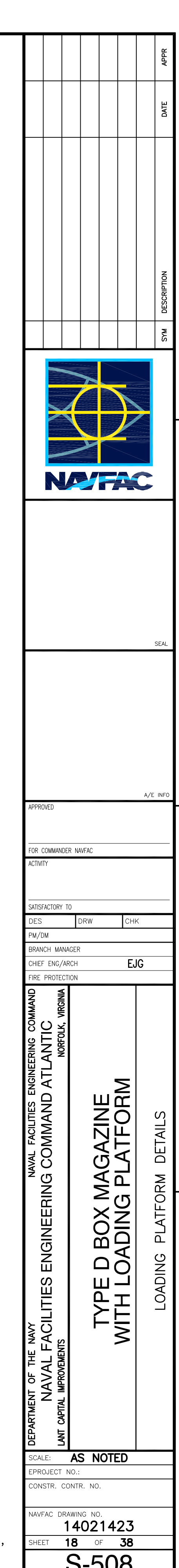
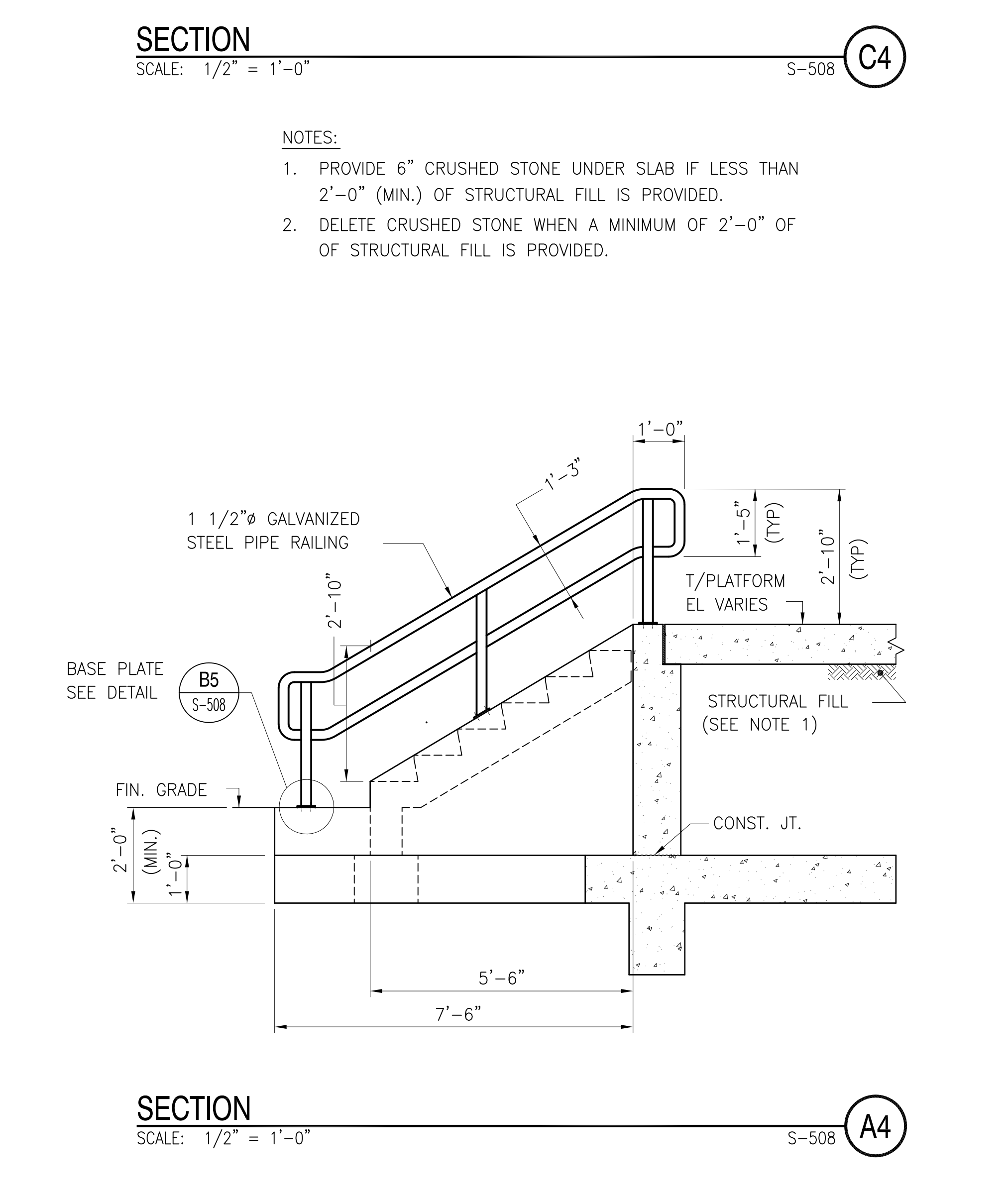


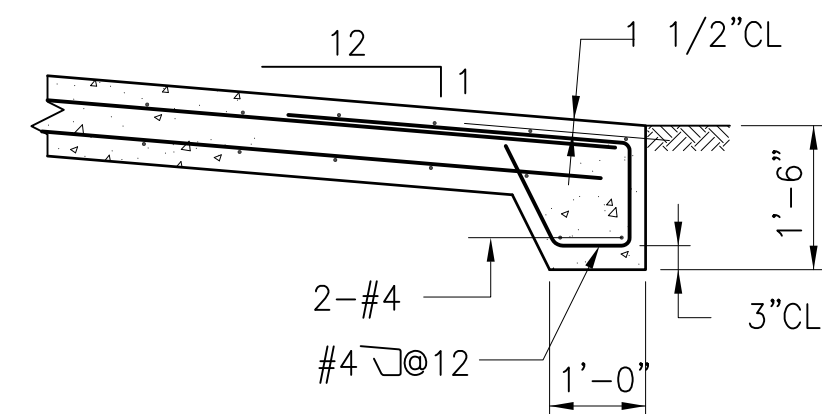
A2



A3

SHEET 17 OF 38
S-507
DRAWFORM REVISION: 10 MARCH 2009





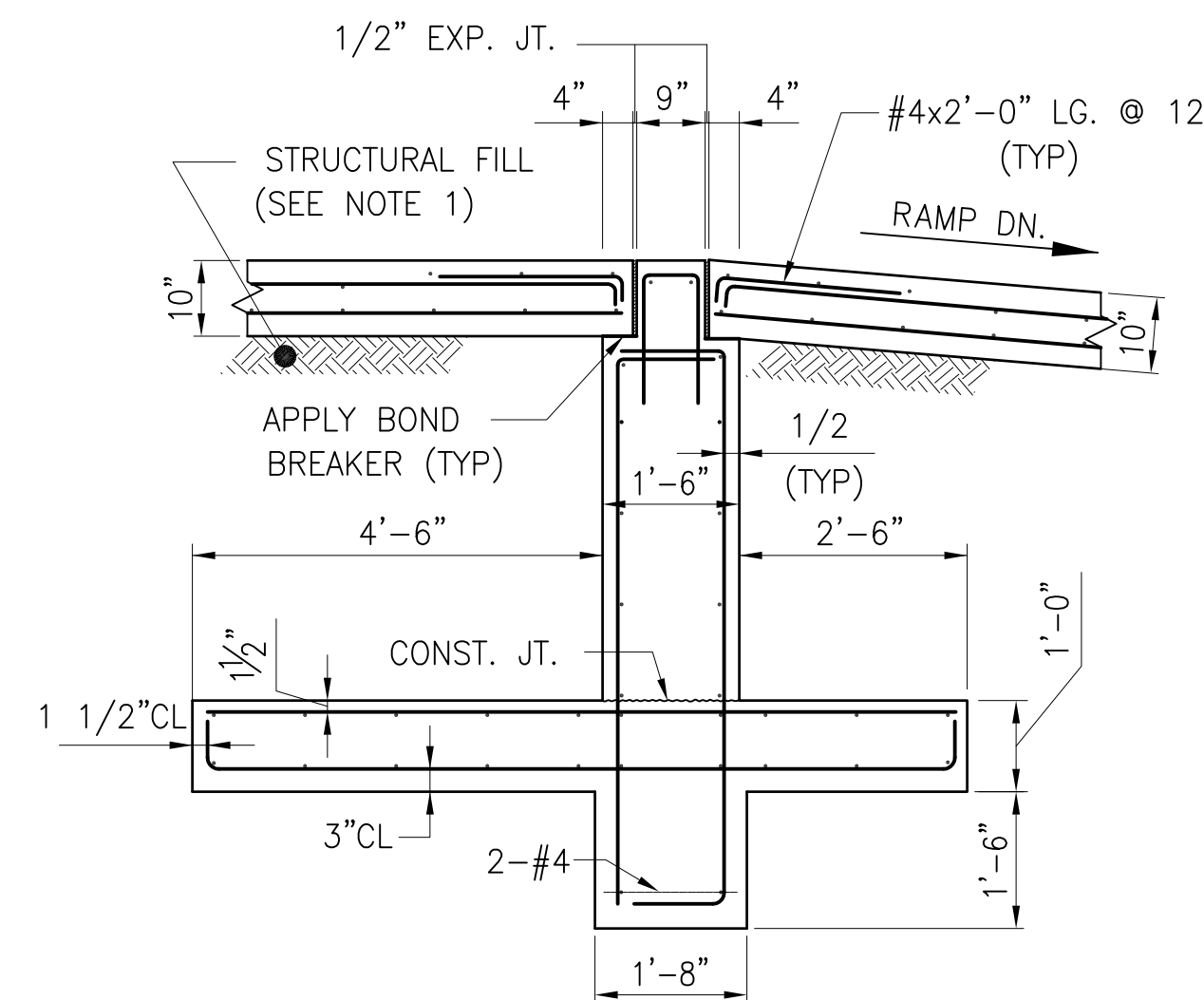
NOTE:
ALL REINFORCEMENT #4@12 (U.N.O.)

SECTION

SCALE: $1/2" = 1'-0"$

S-101

(D2



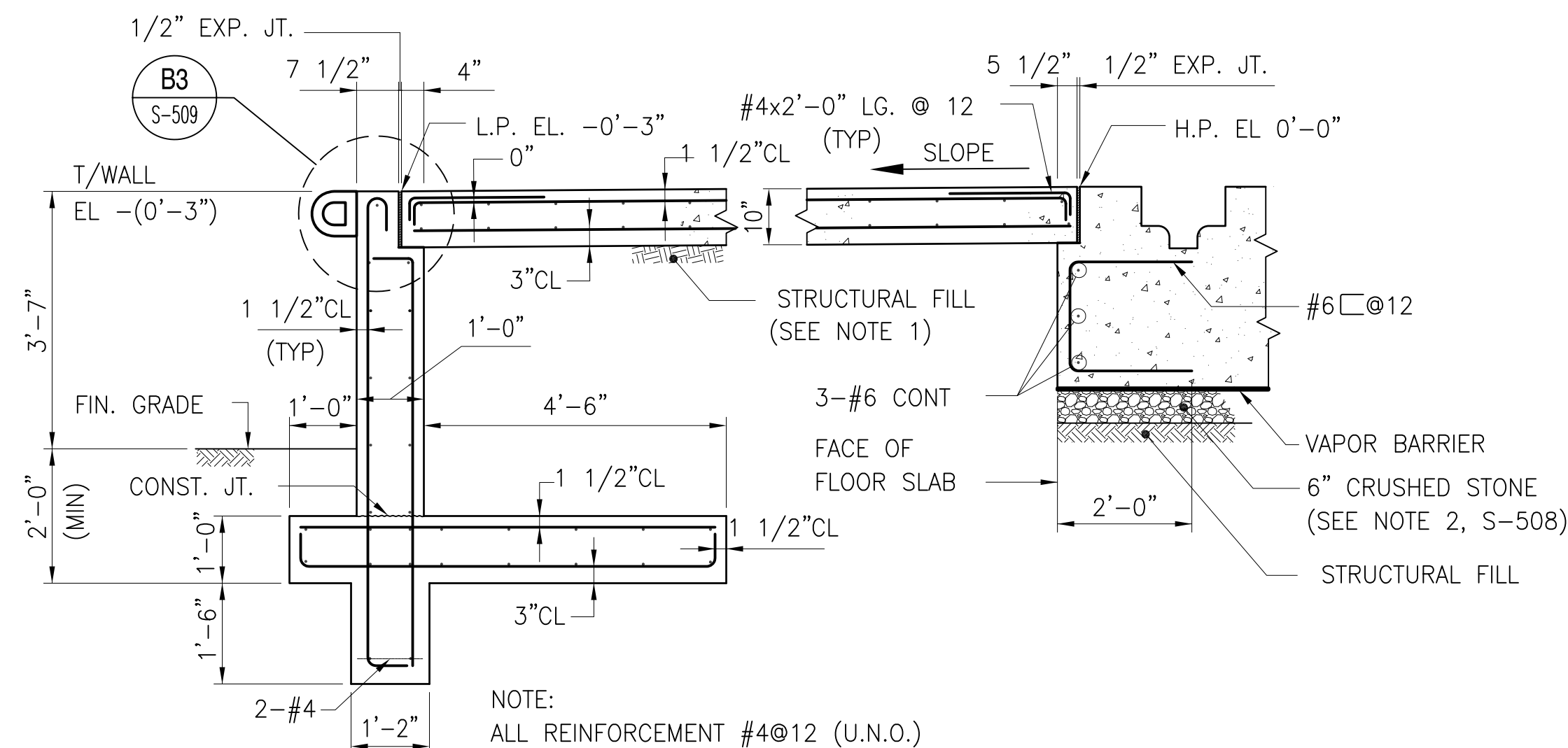
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ALL REINFORCEMENT #4@12 (U.N.O.)

SECTION

SCALE: $1/2" = 1'-0"$

S-101

(B2)



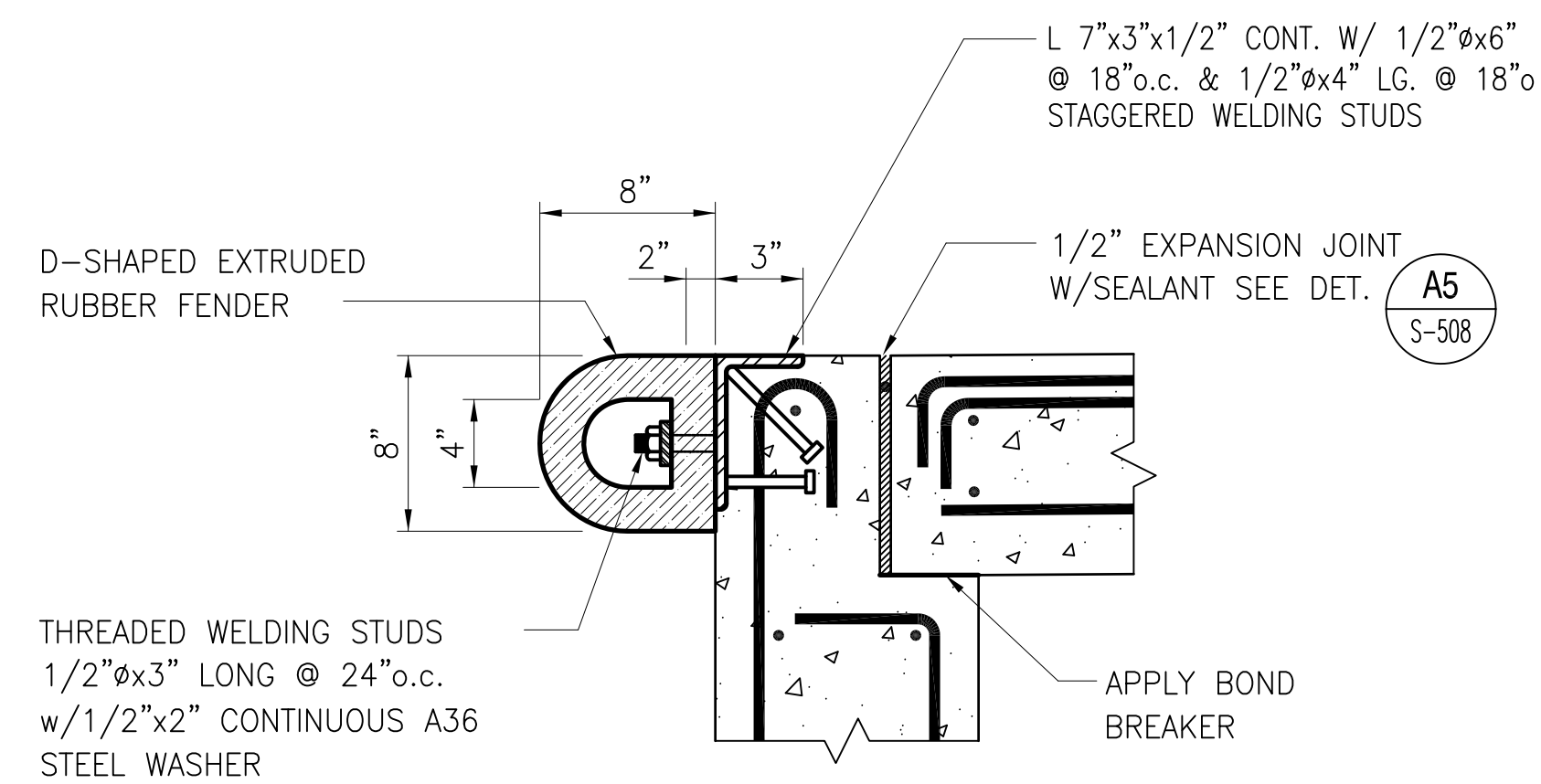
NOTE:
ALL REINFORCEMENT #4@12 (U.N.O.)

SECTION

SCALE: $1/2" = 1'-0"$

S-101

(A2

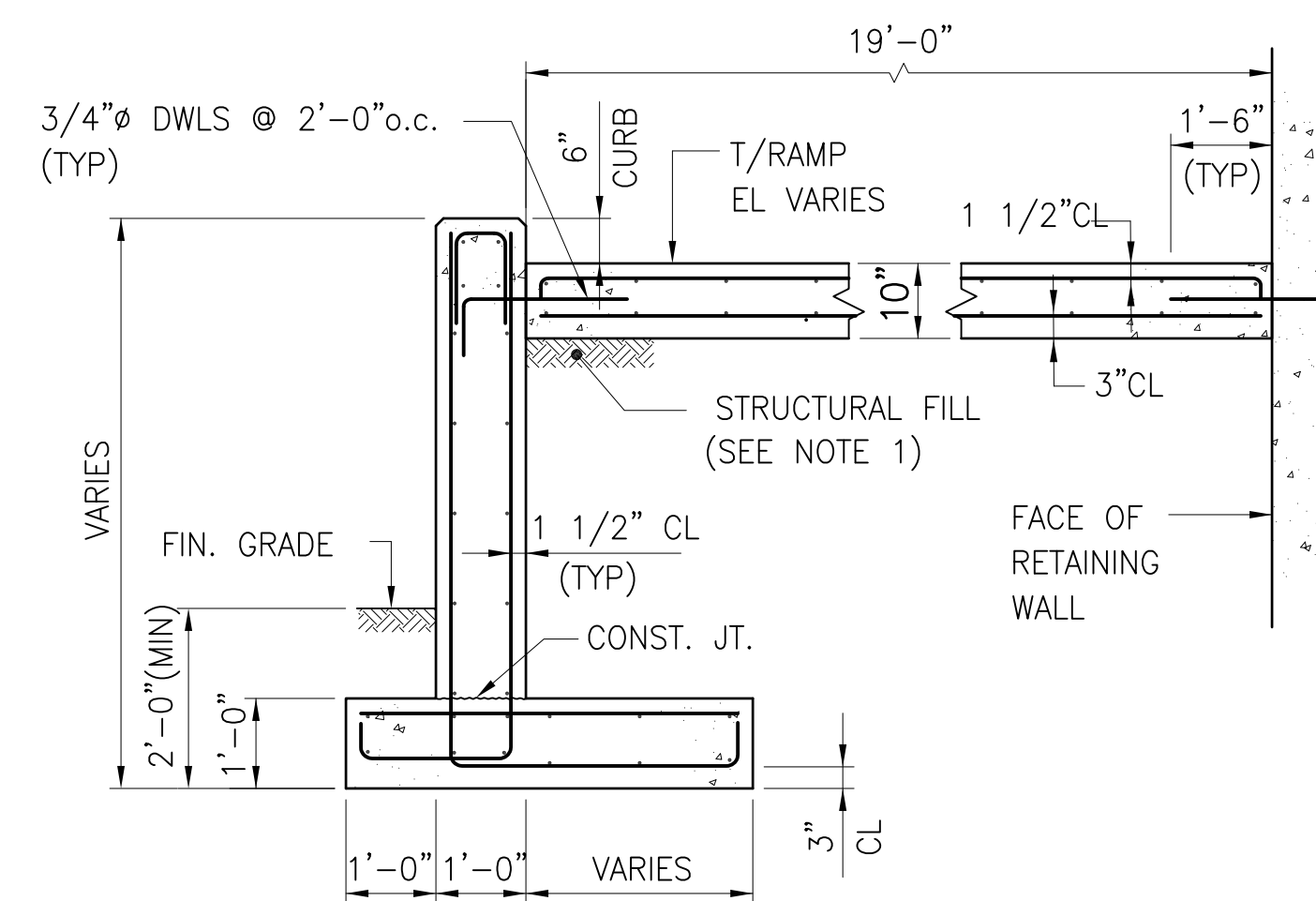


DETAIL

SCALE: 1 1/2" = 1'-0"

S-509

(B3)



NOTE:
ALL REINFORCEMENT #4@12 (U.N.O.)

SECTION

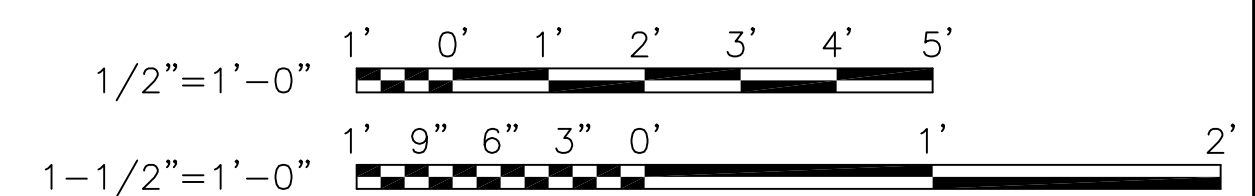
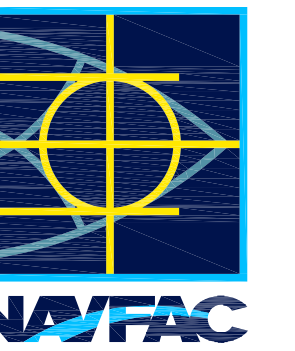
SCALE: $1/2" = 1'-0"$

S-101

(A4)

- NOTES:
1. PROVIDE 6" CRUSHED STONE UNDER SLAB IF LESS THAN 2'-0" (MIN.) OF STRUCTURAL FILL IS PROVIDED.
 2. DELETE CRUSHED STONE WHEN A MINIMUM OF 2'-0" OF OF STRUCTURAL FILL IS PROVIDED.

GRAPHIC SCALE:

[illegible]

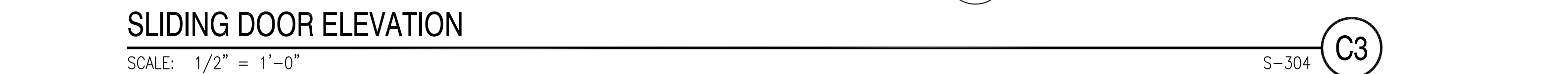
SEAL

A/E INFO

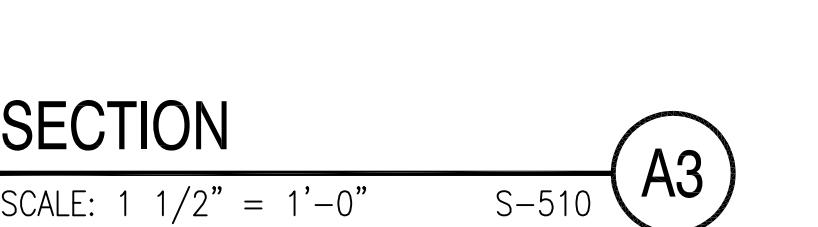
PROVED		
R COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
ES	DRW	CHK
/DM		
BRANCH MANAGER		
CHIEF ENG/ARCH		EJG
RE PROTECTION		

NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC NAVY CAPITAL IMPROVEMENTS	NORFOLK, VIRGINIA
TYPE D BOX MAGAZINE WITH LOADING PLATFORM	
LOADING PLATFORM DETAILS	

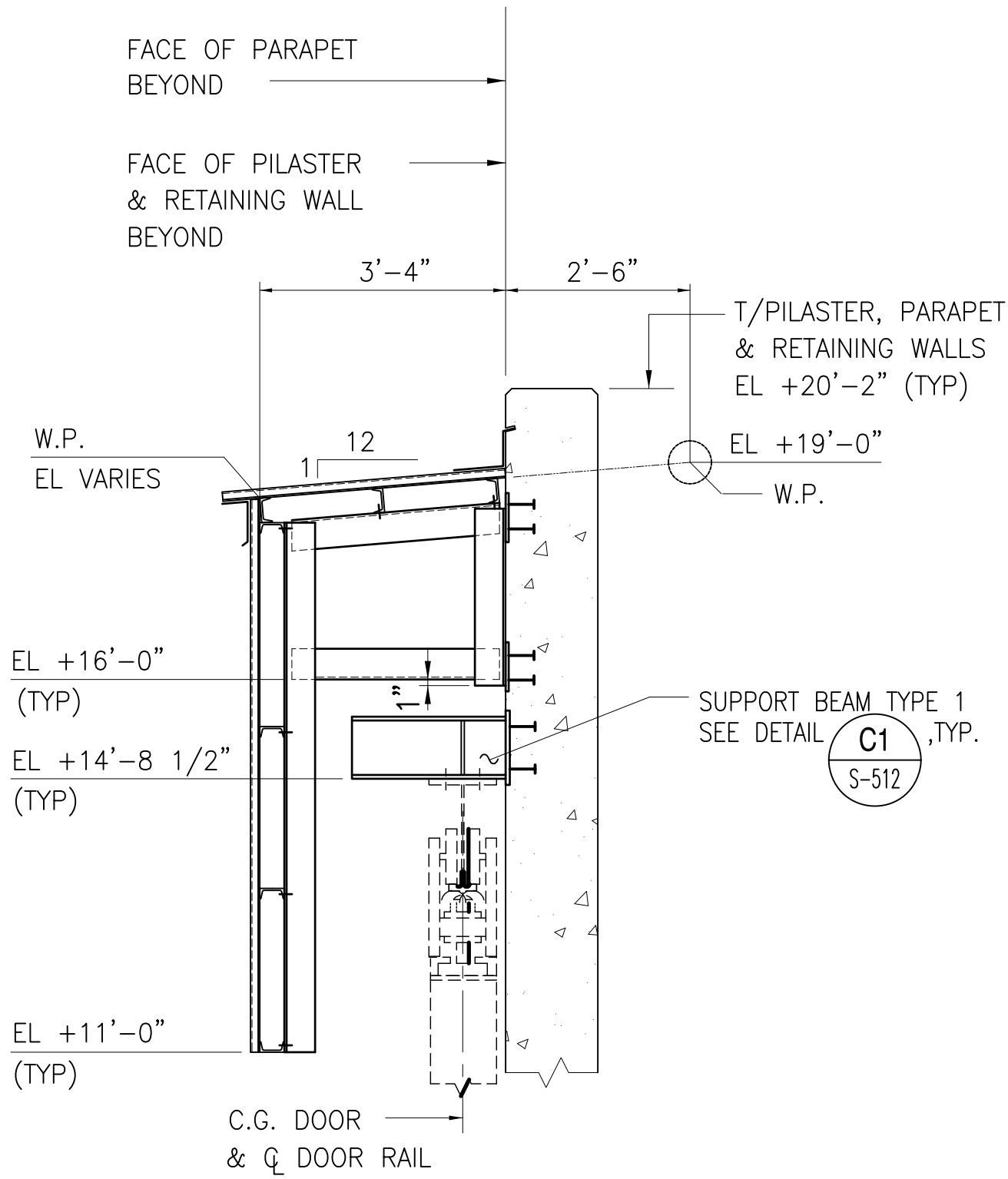
SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
AVFAC DRAWING NO.	14021424
SHEET	19 OF 38
	S-509



1. DOOR NO'S 1, 2 AND 3 AS SHOWN. DOOR NO'S 4 AND 5 OPPOSITE HAND.
2. PROVIDE 6"x6"x10" STEEL BLOCK AT LEADING EDGE OF DOOR NO'S 1, 2, 4 AND 5 FOR INTERNAL LOCK ASSEMBLY. SEE DETAIL **A2**

[illegible]

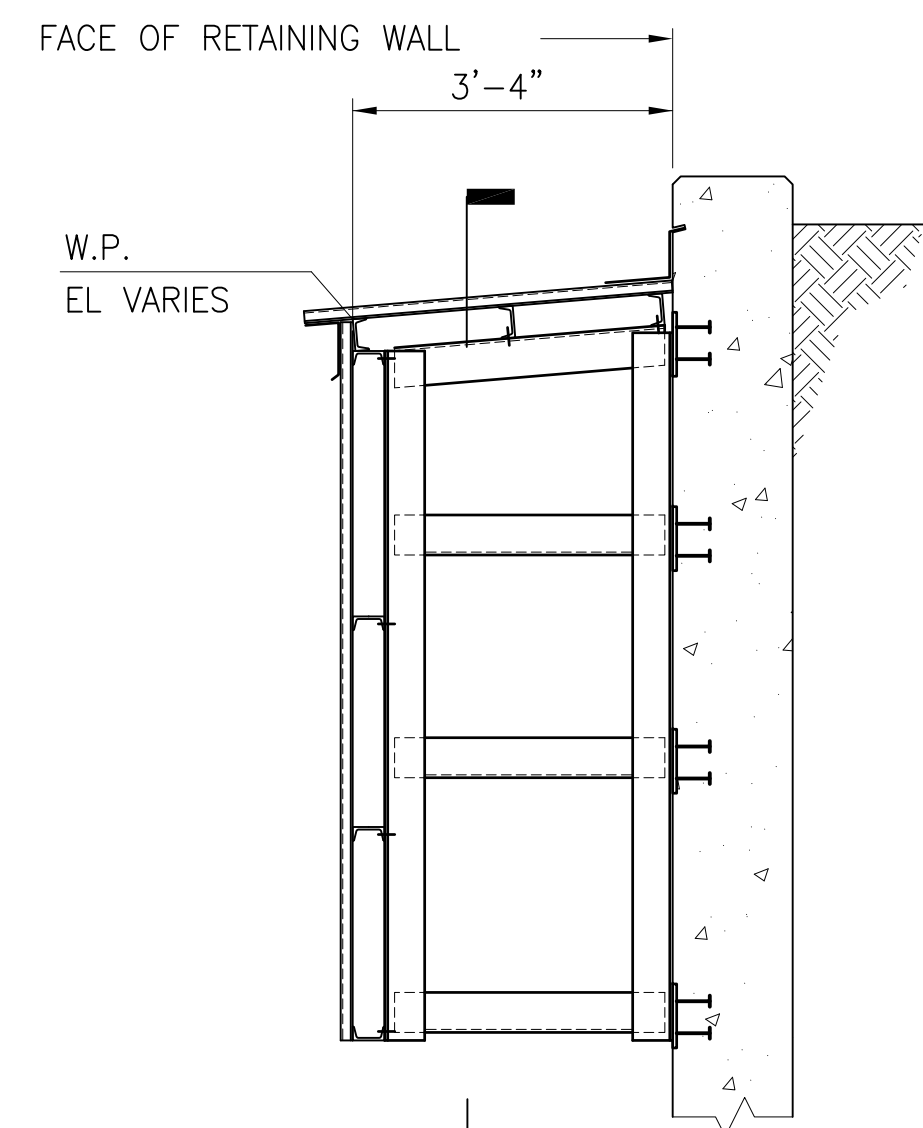
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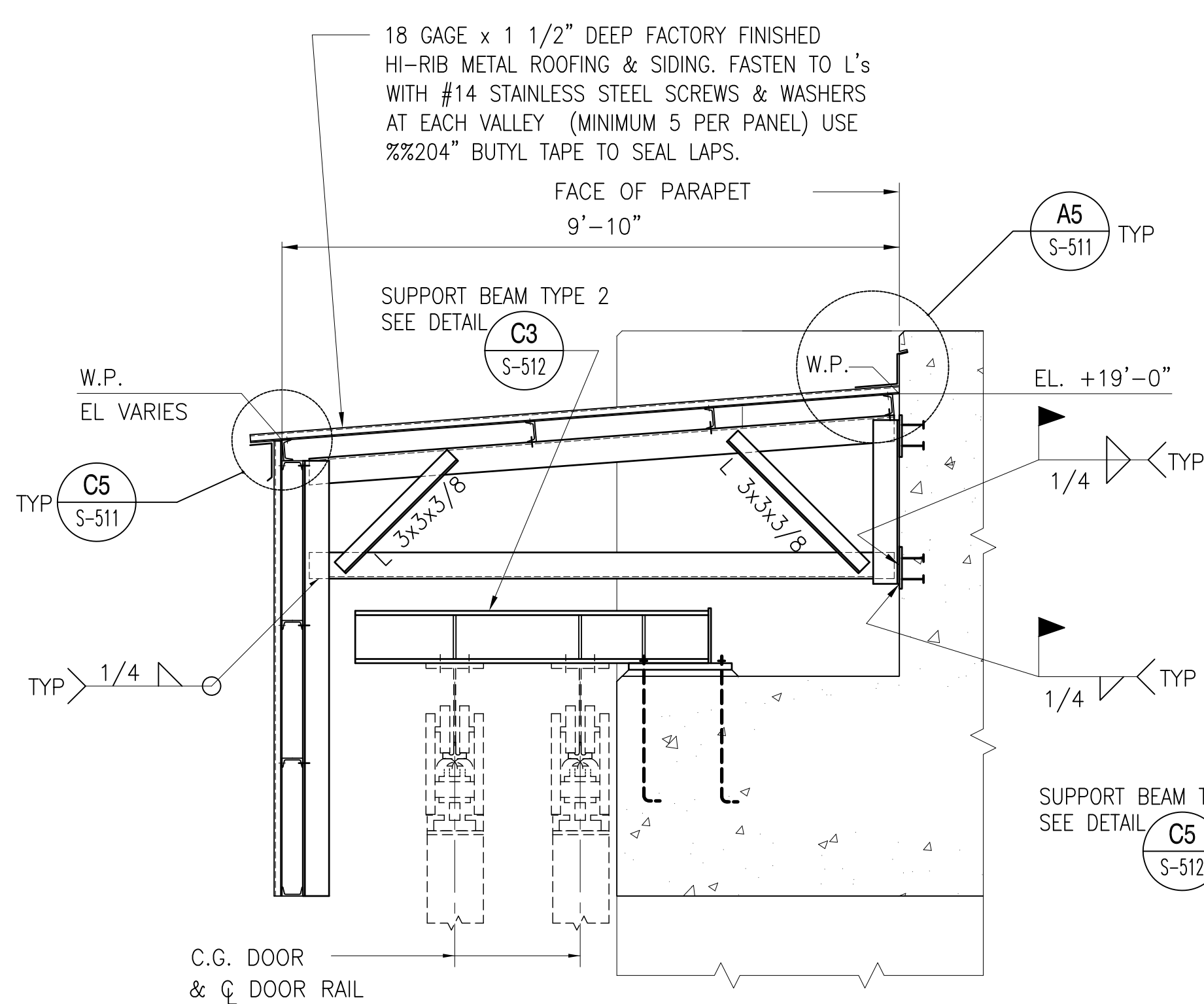
SECTION C1
SCALE: 1/2" = 1'-0"
S-305

NOTES:

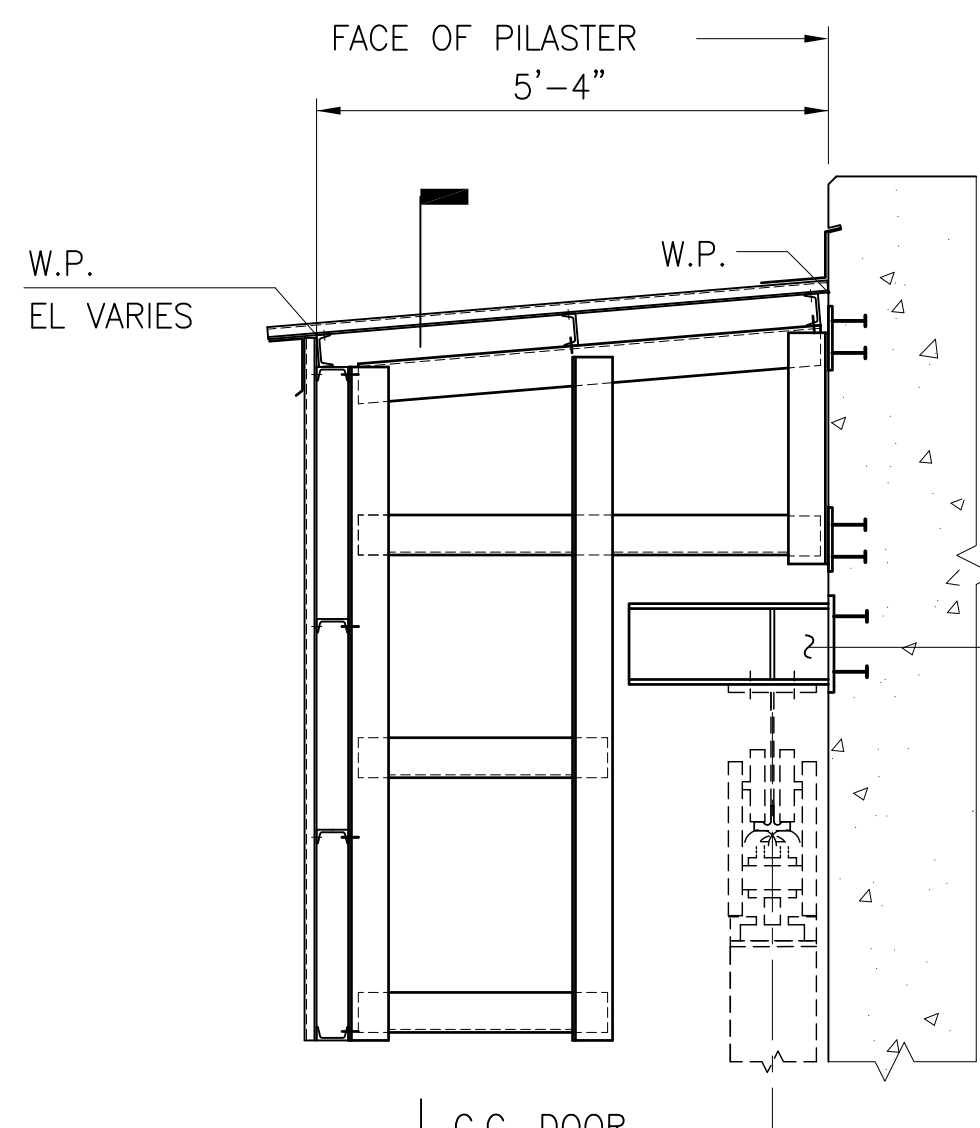
1. ALL ANGLES TO BE 5"x5"x3/8" UNLESS NOTED OTHERWISE.
2. ALL PURLINS AND GIRTS TO BE C4x7.25, FASTENED TO ANGLES WITH TWO 5/8"Ø A325 BOLTS (TYP).
3. FOR SUPPORT BRACKET DETAILS, SEE DWG. S-512.



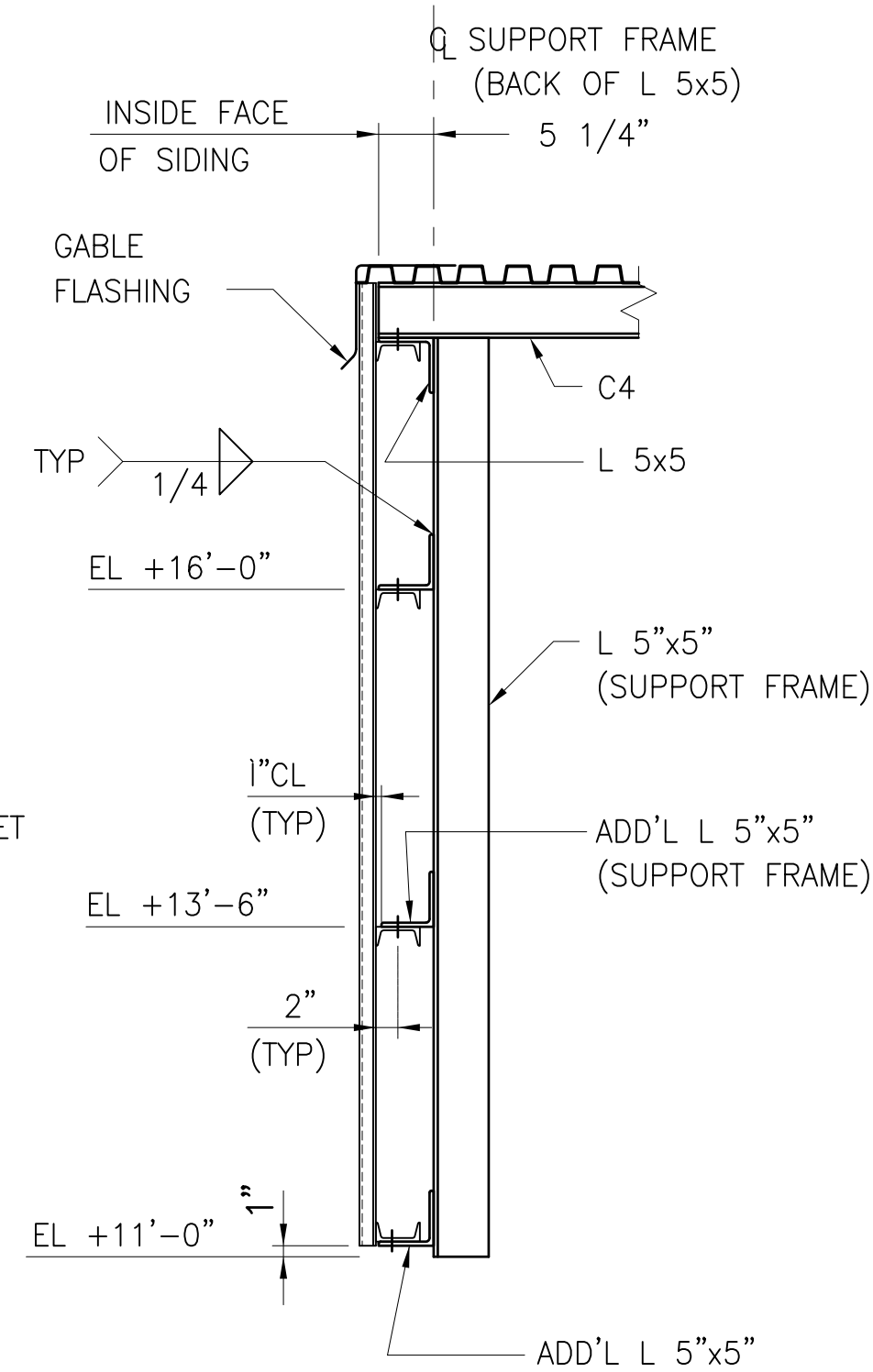
SECTION A1
SCALE: 1/2" = 1'-0"
S-305



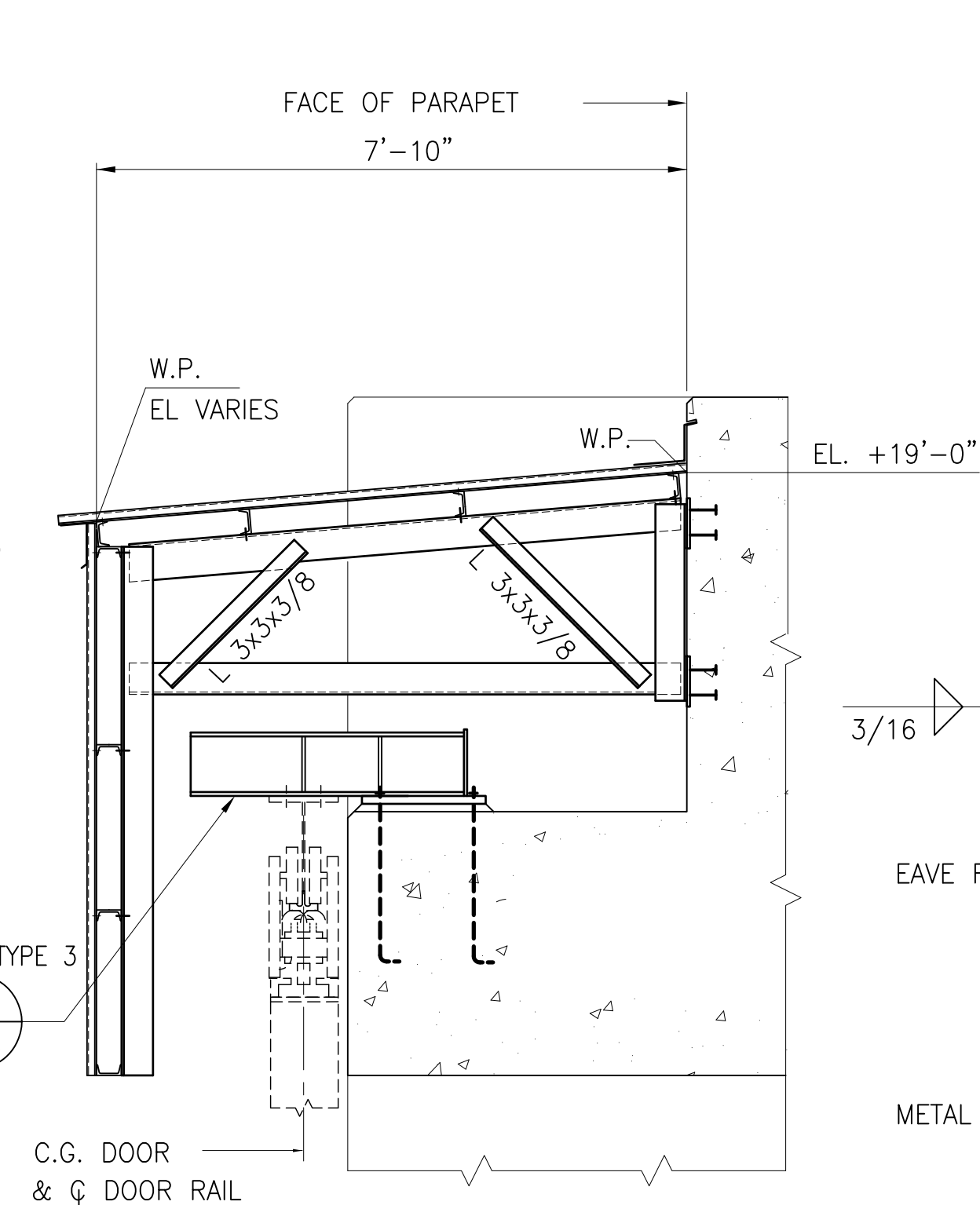
SECTION C3
SCALE: 1/2" = 1'-0"
S-305



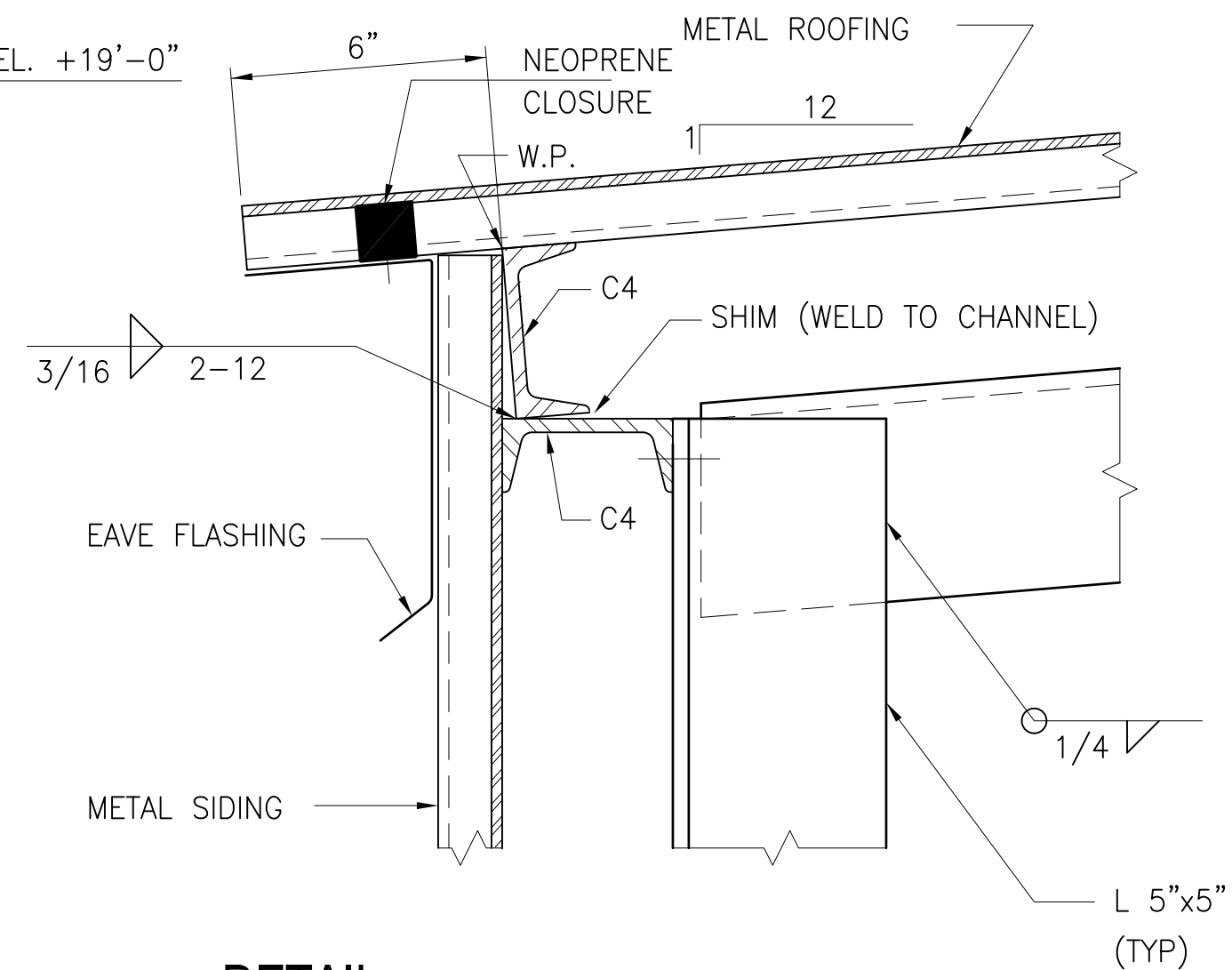
SECTION A2
SCALE: 1/2" = 1'-0"
S-305



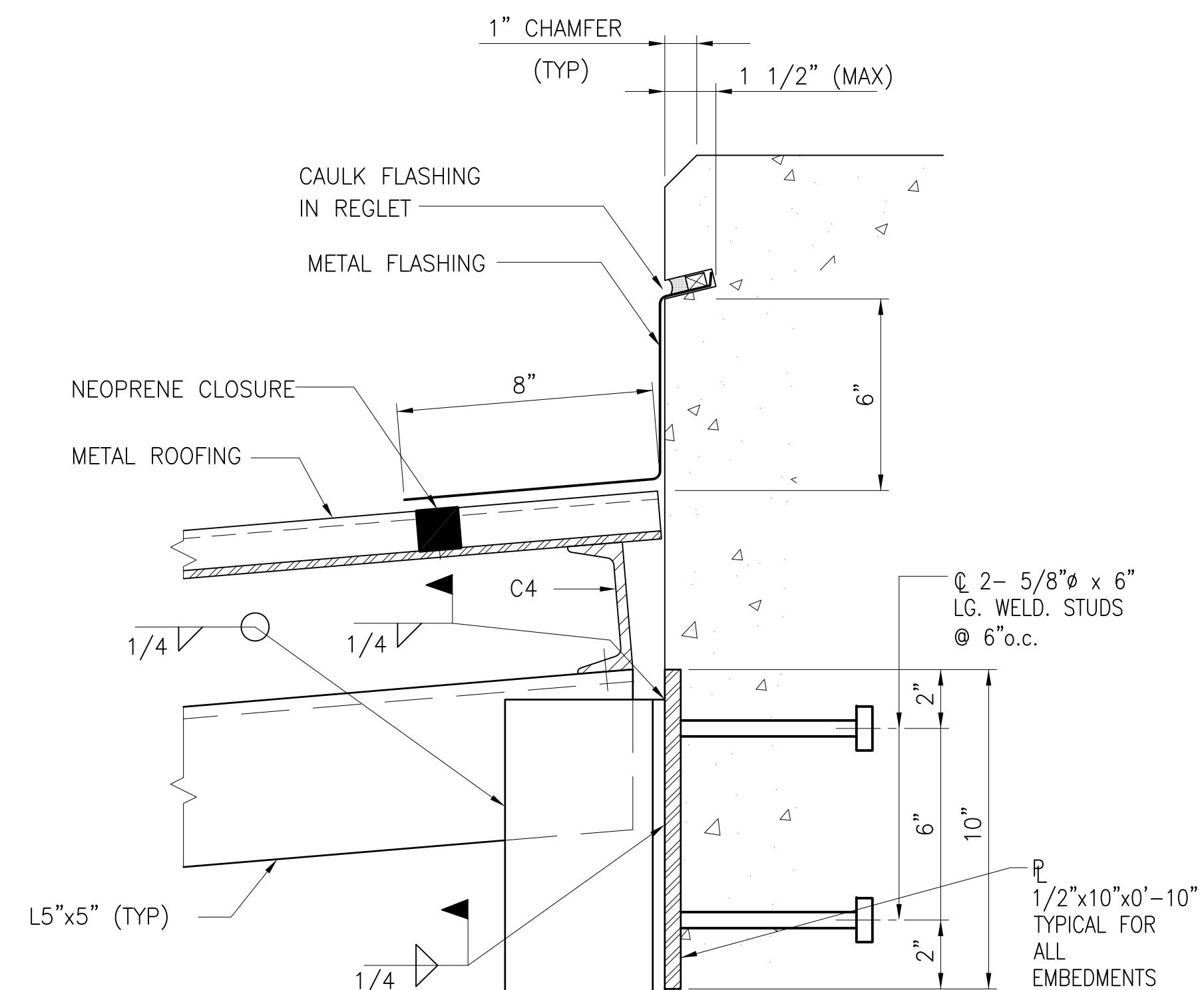
SECTION A3
SCALE: 1/2" = 1'-0"
S-305



SECTION C4
SCALE: 1/2" = 1'-0"
S-305

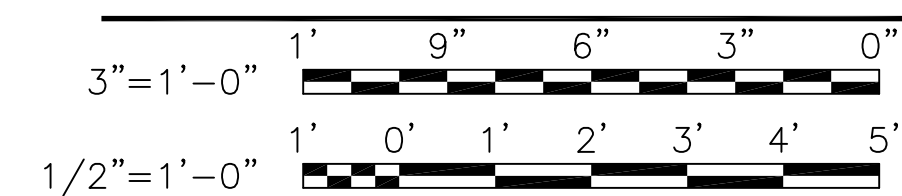


DETAIL C5
SCALE: 3" = 1'-0"
S-511



DETAIL A5
SCALE: 3" = 1'-0"
S-511

GRAPHIC SCALE:



APPROVED	DATE	APPR
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
DES	DRW	CHK
PM/DM		
BRANCH MANAGER		
CHIEF ENG/ARCH	EJG	
FIRE PROTECTION		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC
LANT CAPITAL IMPROVEMENTS	NORFOLK, VIRGINIA	
TYPE D BOX MAGAZINE WITH LOADING PLATFORM		
CANOPY DETAILS		
SCALE:	AS NOTED	
PROJECT NO.:	14021426	
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	14021426	
SHEET	21	OF 38
S-511		
DRAWING REVISION: 10 MARCH 2009		

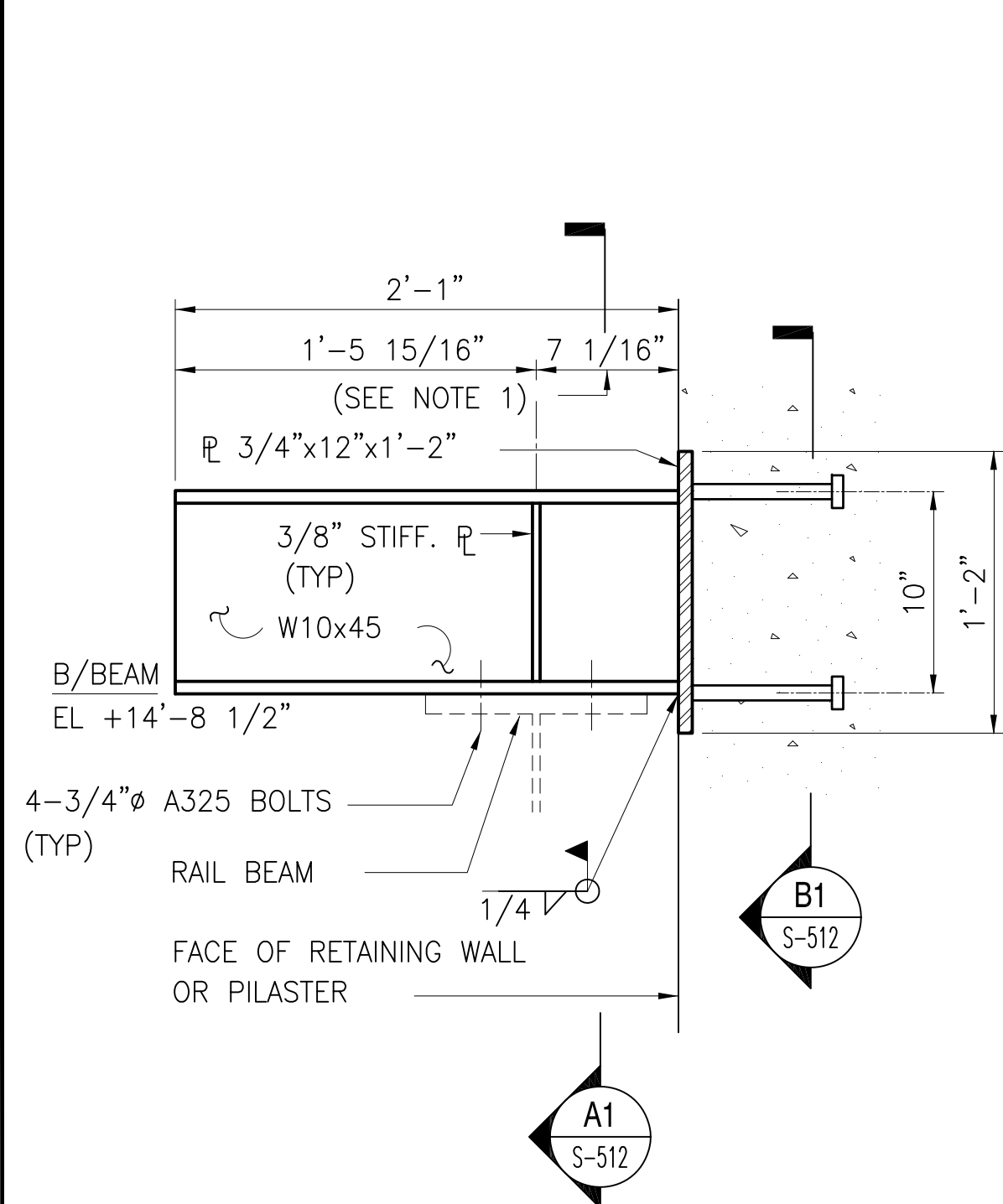
FILE NAME: J:\CSE\Magazines\Box D FINAL\Final Drawings Box D with Platform\AutoCAD\BOX D WITH PLATFORM.dwg LAYOUT NAME: S-512 PLOTTED: Wednesday, September 26, 2012 - 10:27am

D

C

B

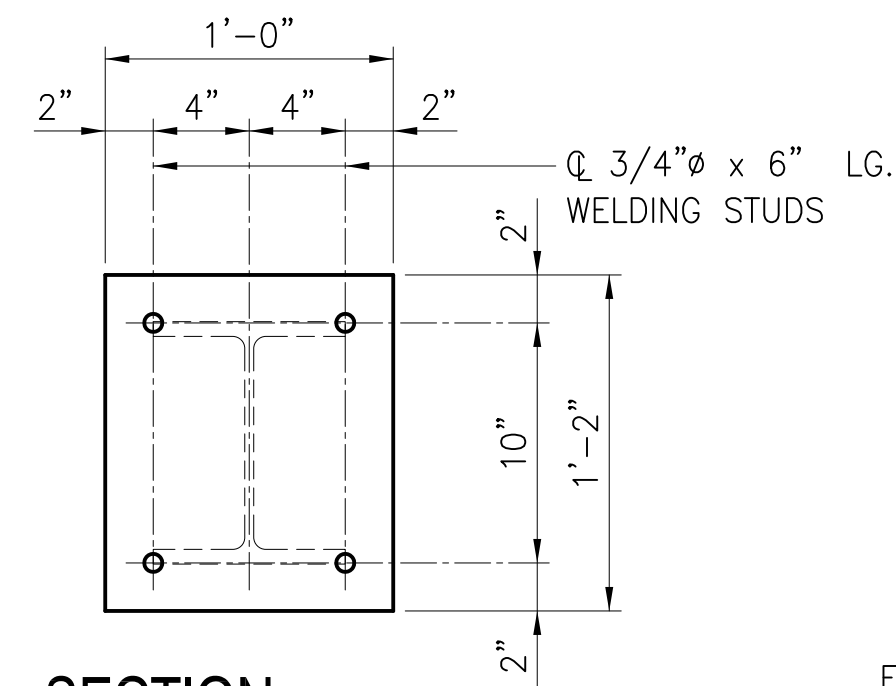
A



TYPE 1 SUPPORT BEAM

SCALE: 1 1/2" = 1'-0" S-305, S-511

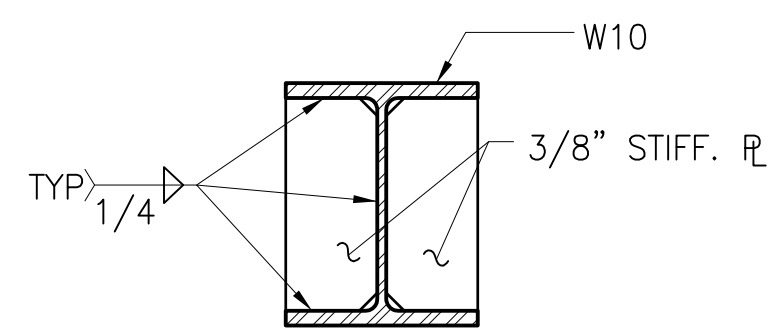
C1



SECTION

SCALE: 1 1/2" = 1'-0" S-512

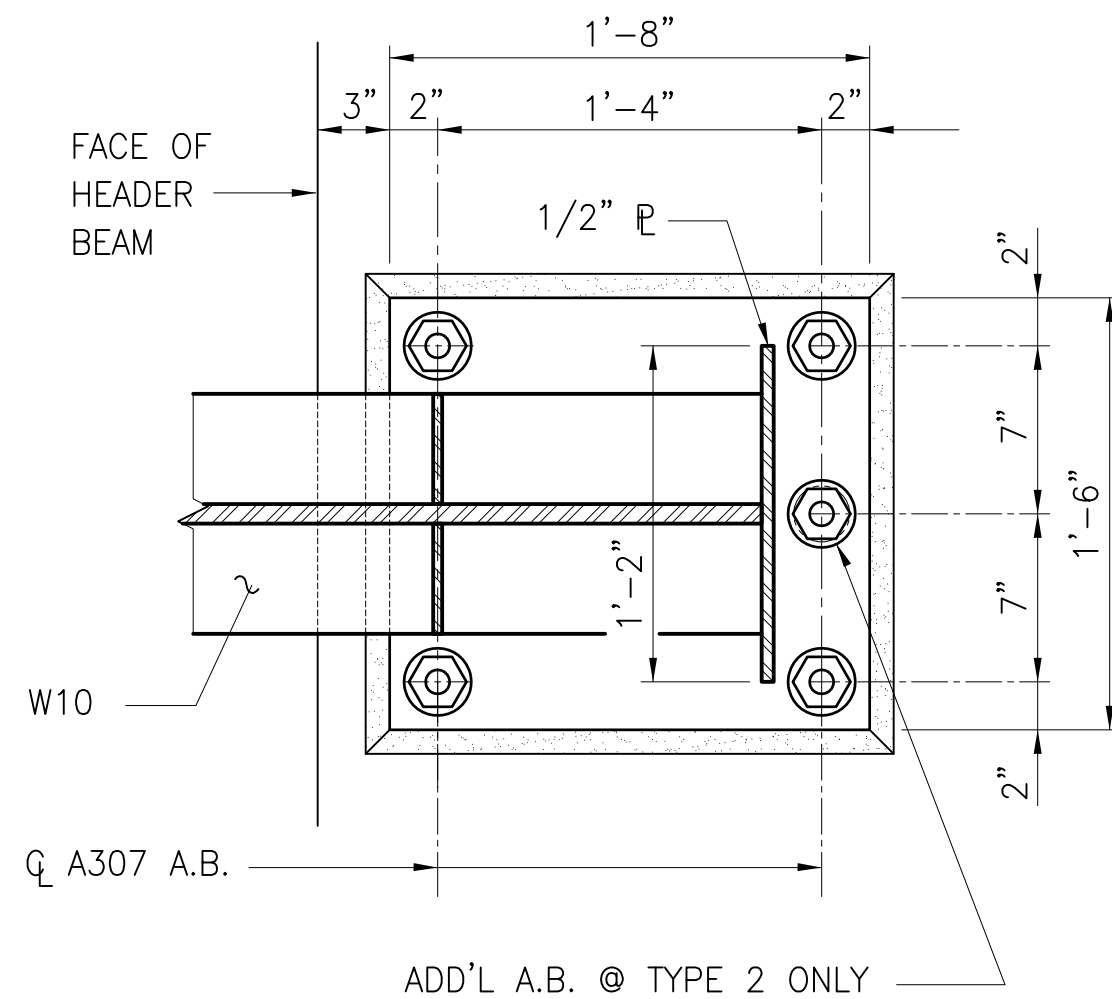
B1



SECTION

SCALE: 1 1/2" = 1'-0" S-512

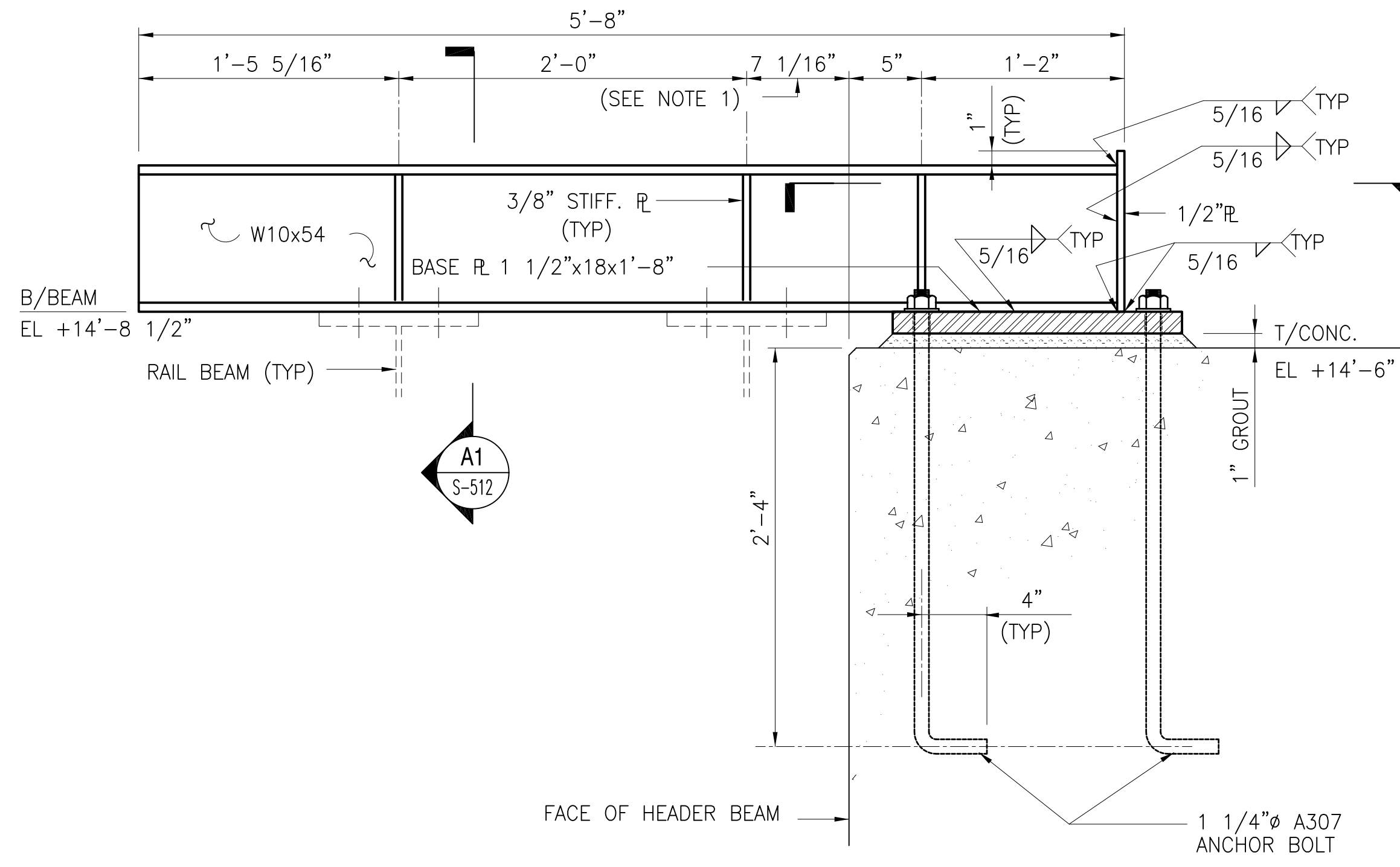
A1



SECTION

SCALE: 1 1/2" = 1'-0" S-512

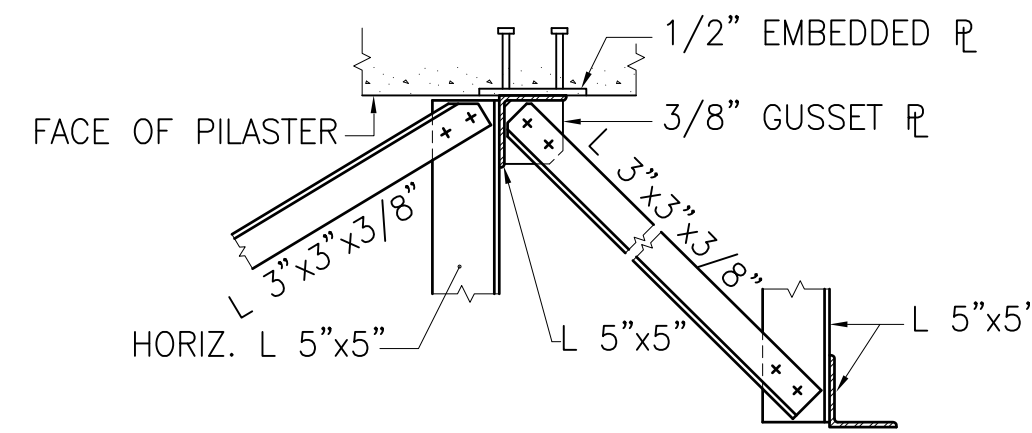
A2



TYPE 2 SUPPORT BEAM

SCALE: 1 1/2" = 1'-0" S-305, S-511

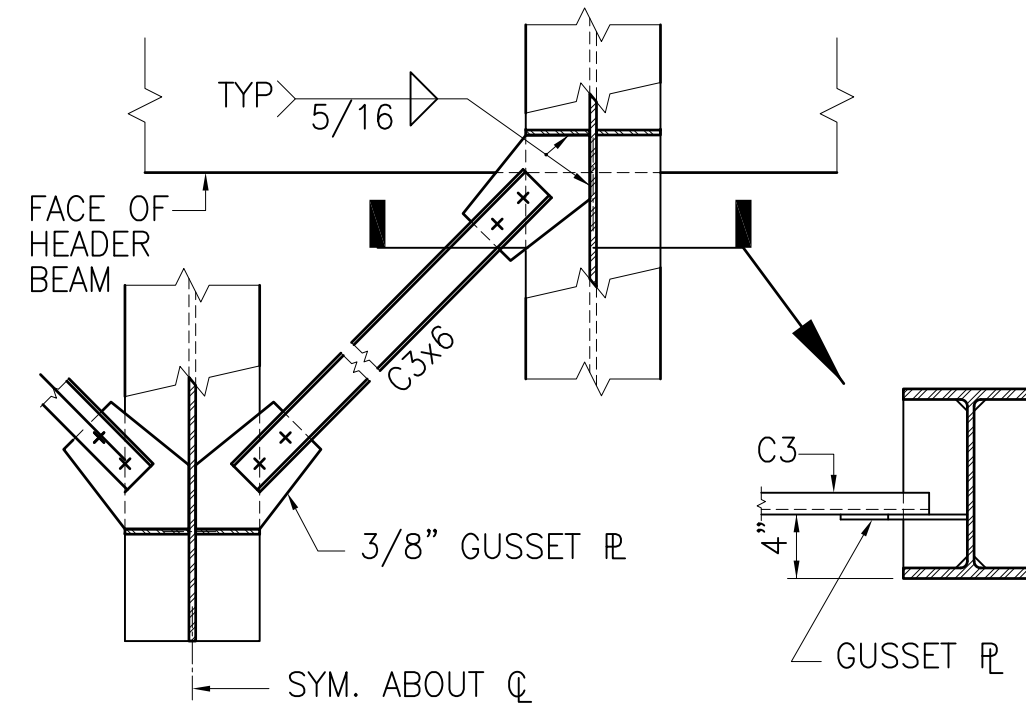
C3



DETAIL

SCALE: 1" = 1'-0" S-305

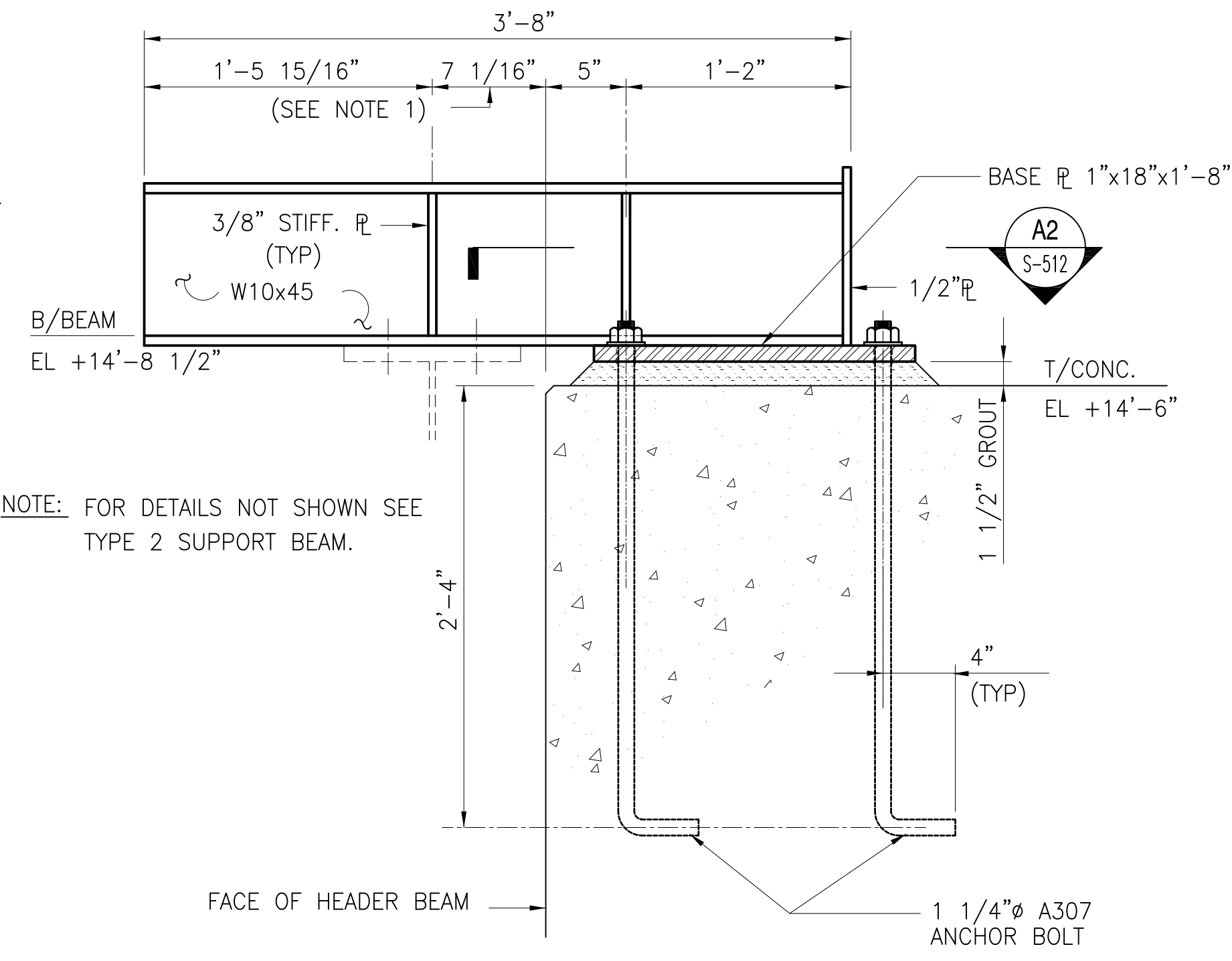
B3



DETAIL

SCALE: 1" = 1'-0" S-305

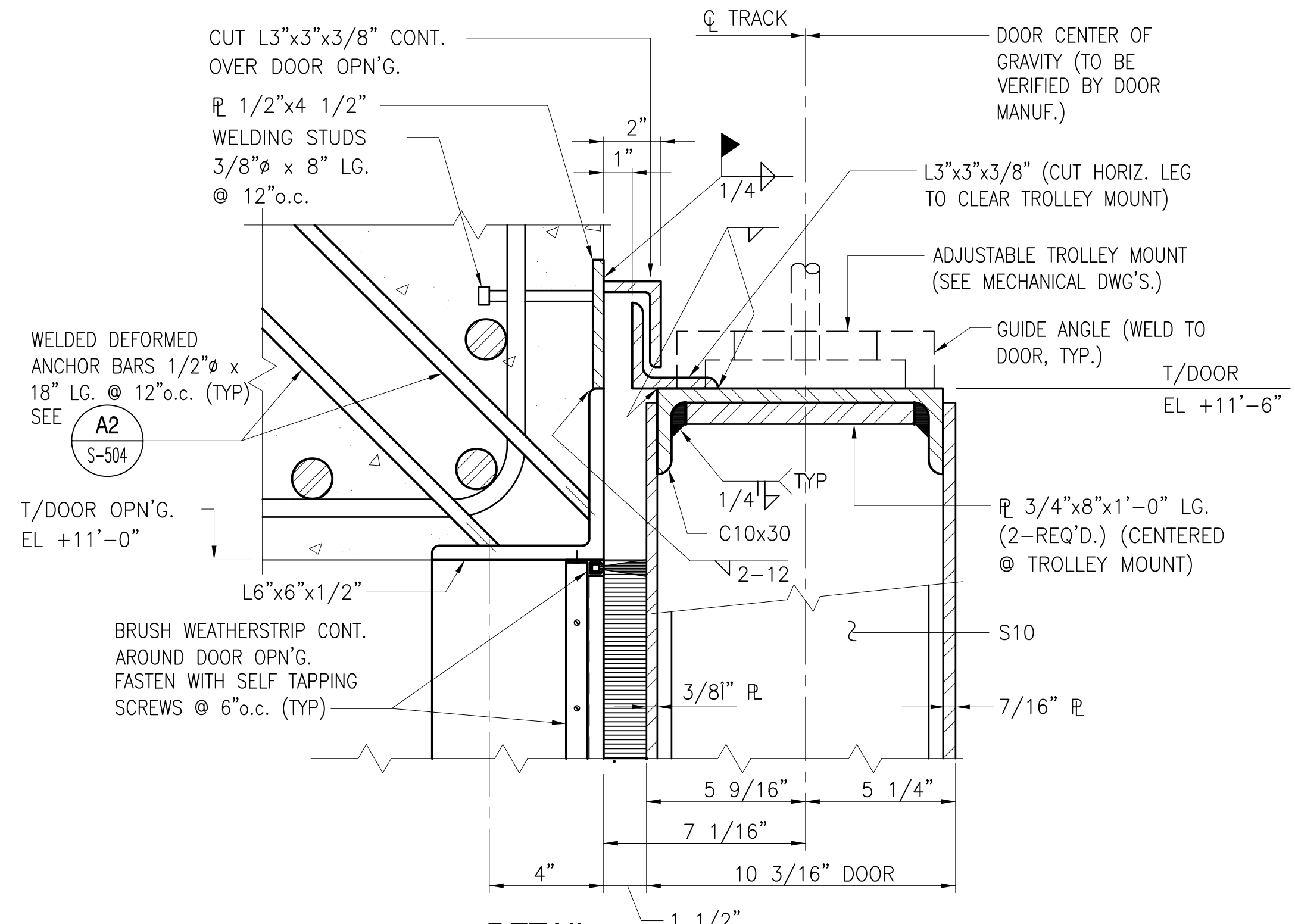
A3



TYPE 3 SUPPORT BEAM

SCALE: 1 1/2" = 1'-0" S-305, S-511

C5

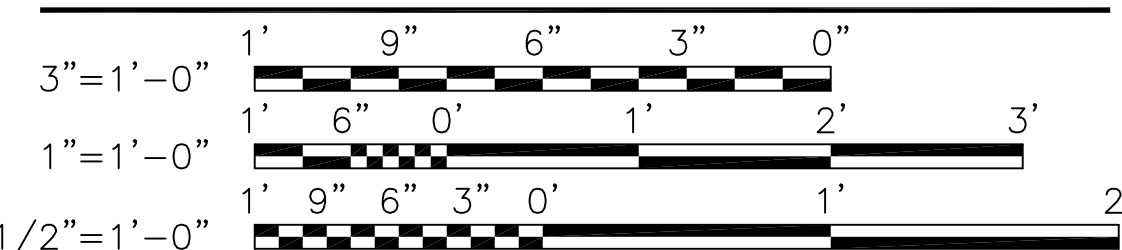


DETAIL

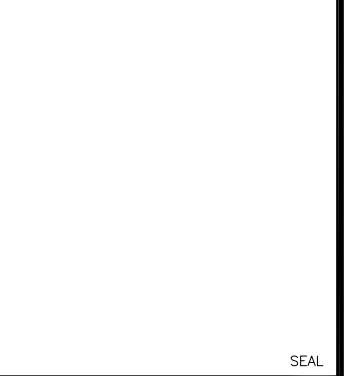
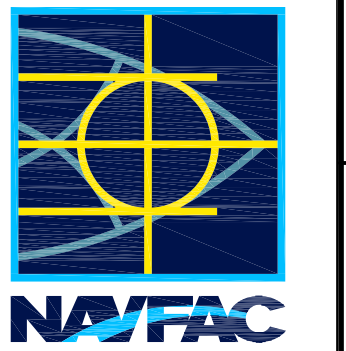
SCALE: 3" = 1'-0" S-510, S-514

A5

GRAPHIC SCALE:



APPROVED	DATE	DESCRIPTION	SYN



APPROVED	DATE	DESCRIPTION	SYN

FOR COMMANDER NAVFAC	ACTIVITY	DES	DRW	CHK

NAV FACILITIES ENGINEERING COMMAND	NAV FACILITIES ENGINEERING COMMAND ATLANTIC	NAV FACILITIES ENGINEERING COMMAND PACIFIC	NAV FACILITIES ENGINEERING COMMAND WESTERN

TYPE D BOX MAGAZINE WITH LOADING PLATFORM	RAIL SUPPORT BEAM - DETAILS

SCALE: AS NOTED	PROJECT NO.: 14021427	CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 14021427	SHEET 22 OF 38	S-512

DRAWING REVISION: 10 MARCH 2009

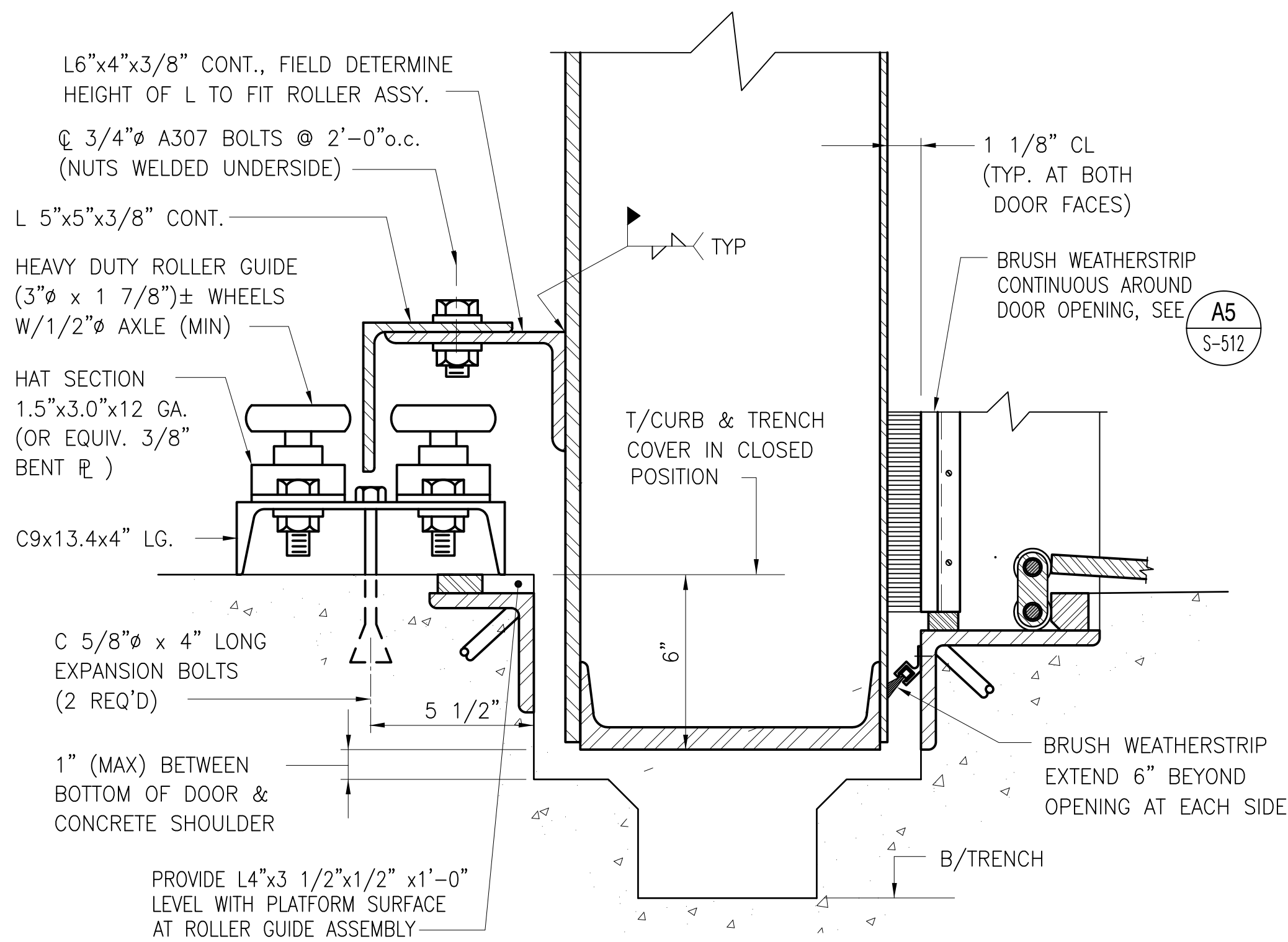
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D

C

B

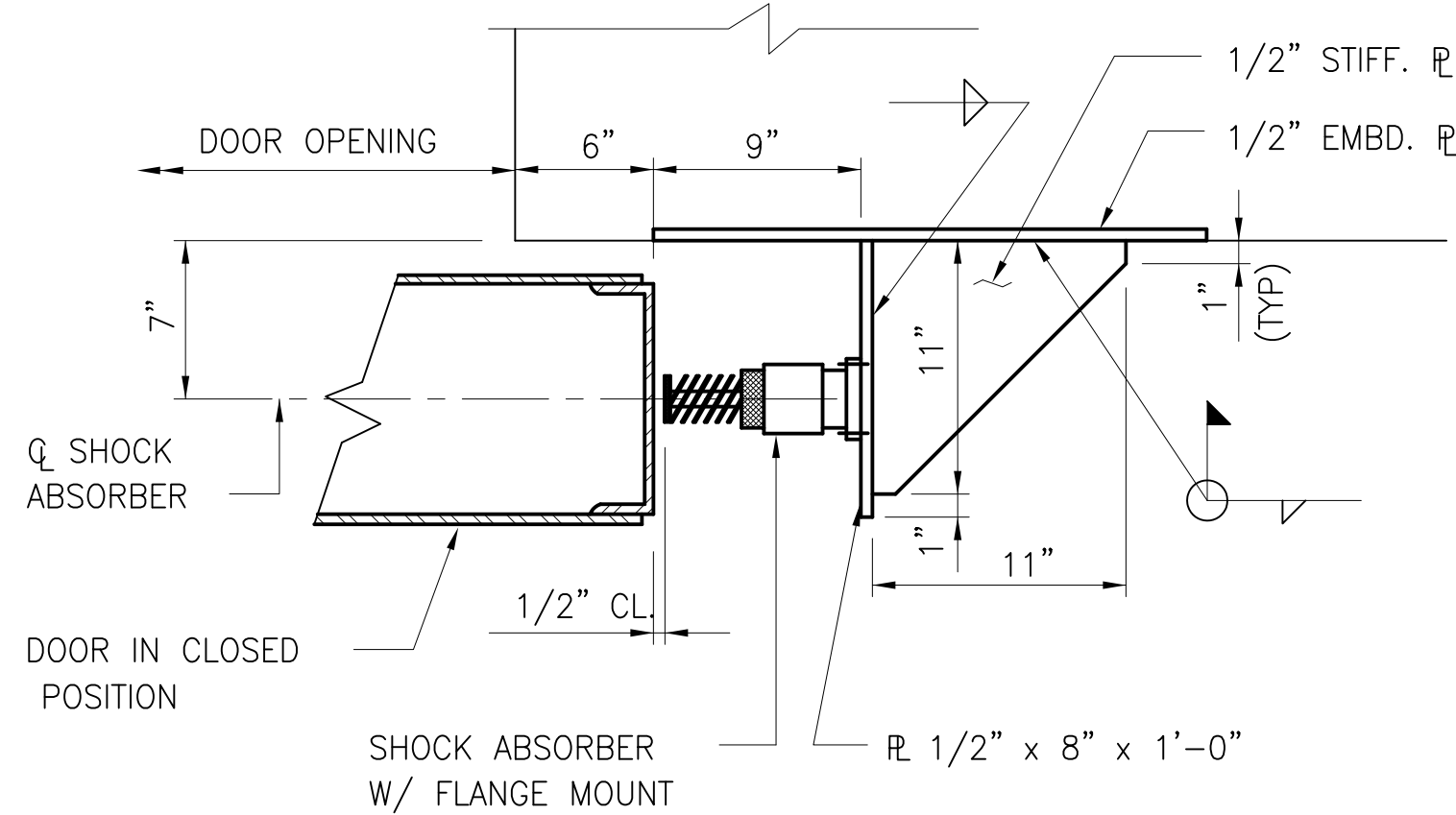
A



ROLLER GUIDE SECTION

SCALE: 3" = 1'-0" S-304, S-305, S-510

B2

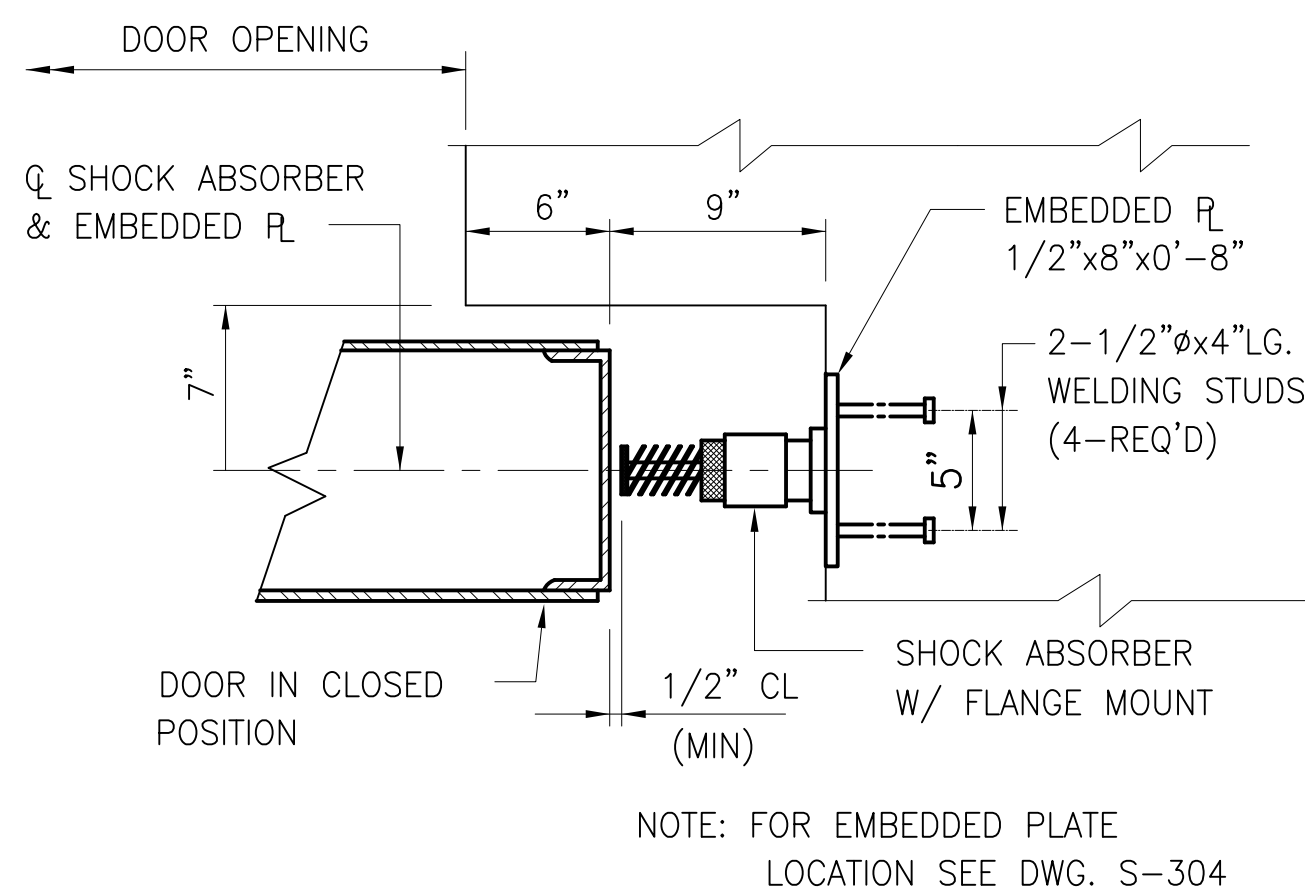


SECTION

SCALE: 1 1/2" = 1'-0"

S-304

A2

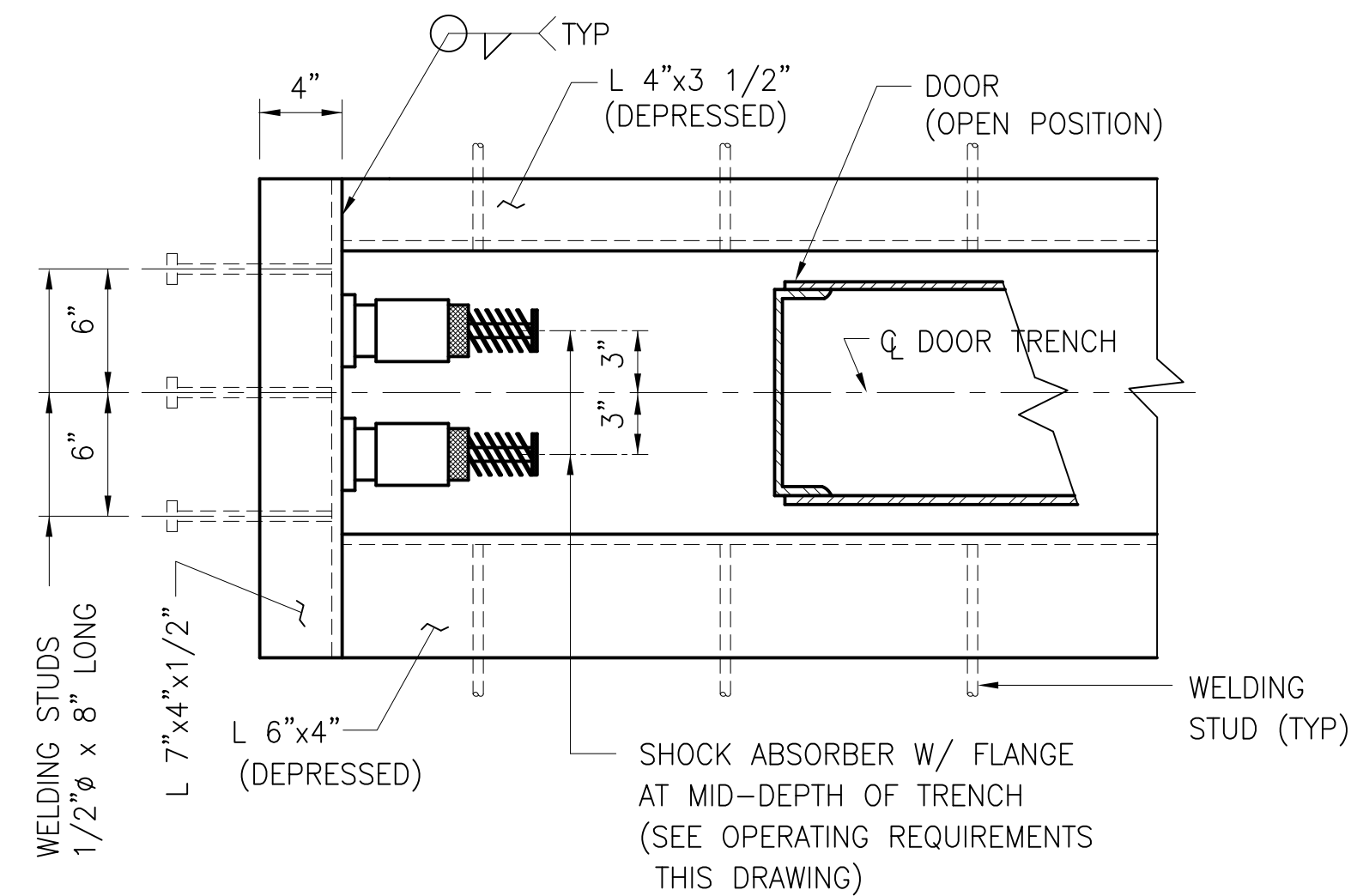


SECTION

SCALE: 1 1/2" = 1'-0"

S-304

A3



DETAIL

SCALE: 1 1/2" = 1'-0"

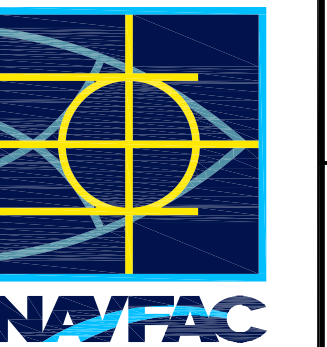
S-304

A4

DOOR SHOCK ABSORBERS— OPERATING REQUIREMENTS

1. MAXIMUM DOOR SPEED 12 FT/MIN OPENING/CLOSING.
2. DOOR CLOSING SHOCK ABSORBER:
AT PILASTER — QUANTITY = 2
— STOPPING DISTANCE = 1 INCH
— MAXIMUM FORCE PER SHOCK ABSORBER = 10,000 LBS
— DUTY CYCLE = 10 DEFLECTIONS/HOUR
3. DOOR OPENING SHOCK ABSORBER:
AT TRENCH — QUANTITY = 2
— STOPPING DISTANCE = 2 INCHES
— MAXIMUM FORCE PER SHOCK ABSORBER = 5,000 LBS
— DUTY CYCLE = 10 DEFLECTIONS/HOUR

GRAPHIC SCALE:



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES DRW CHK

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

NAV FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC

LANC CAPITAL IMPROVEMENTS

PORTFOLIO, VIRGINIA

TYPE D BOX MAGAZINE

WITH LOADING PLATFORM

DOOR ROLLER GUIDES AND SHOCK ABSORBER DETAILS

AS NOTED

PROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

14021429

SHEET 24 OF 38

S-514

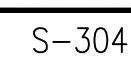
DRAWFORM REVISION: 10 MARCH 2009

D

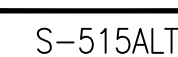
C

B

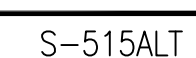
A



S-515A



S-515ALT

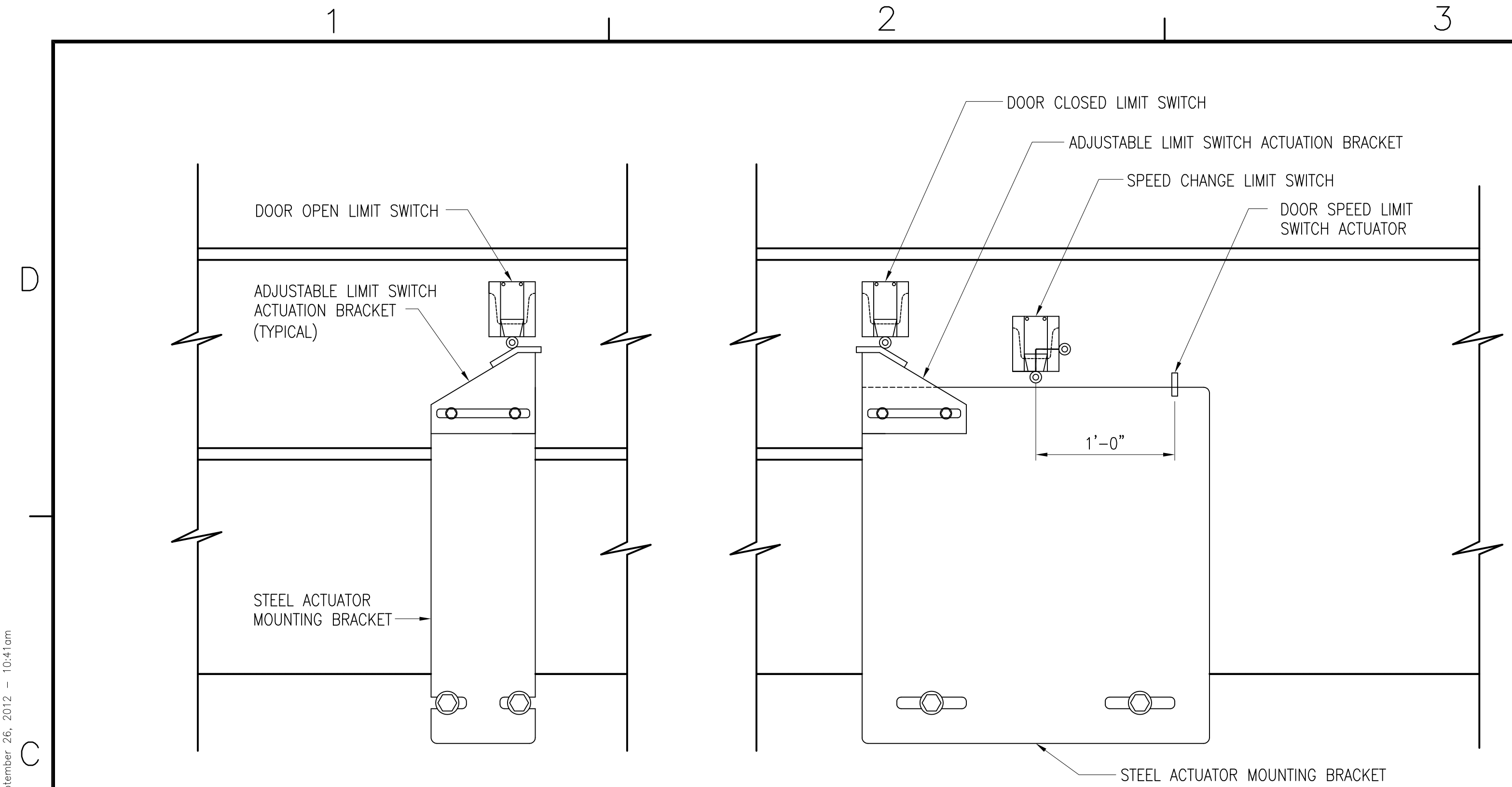


DRAWFORM REVISION: 10 MARCH 2009



1' 0' 1' 2' 3' 4' 5'

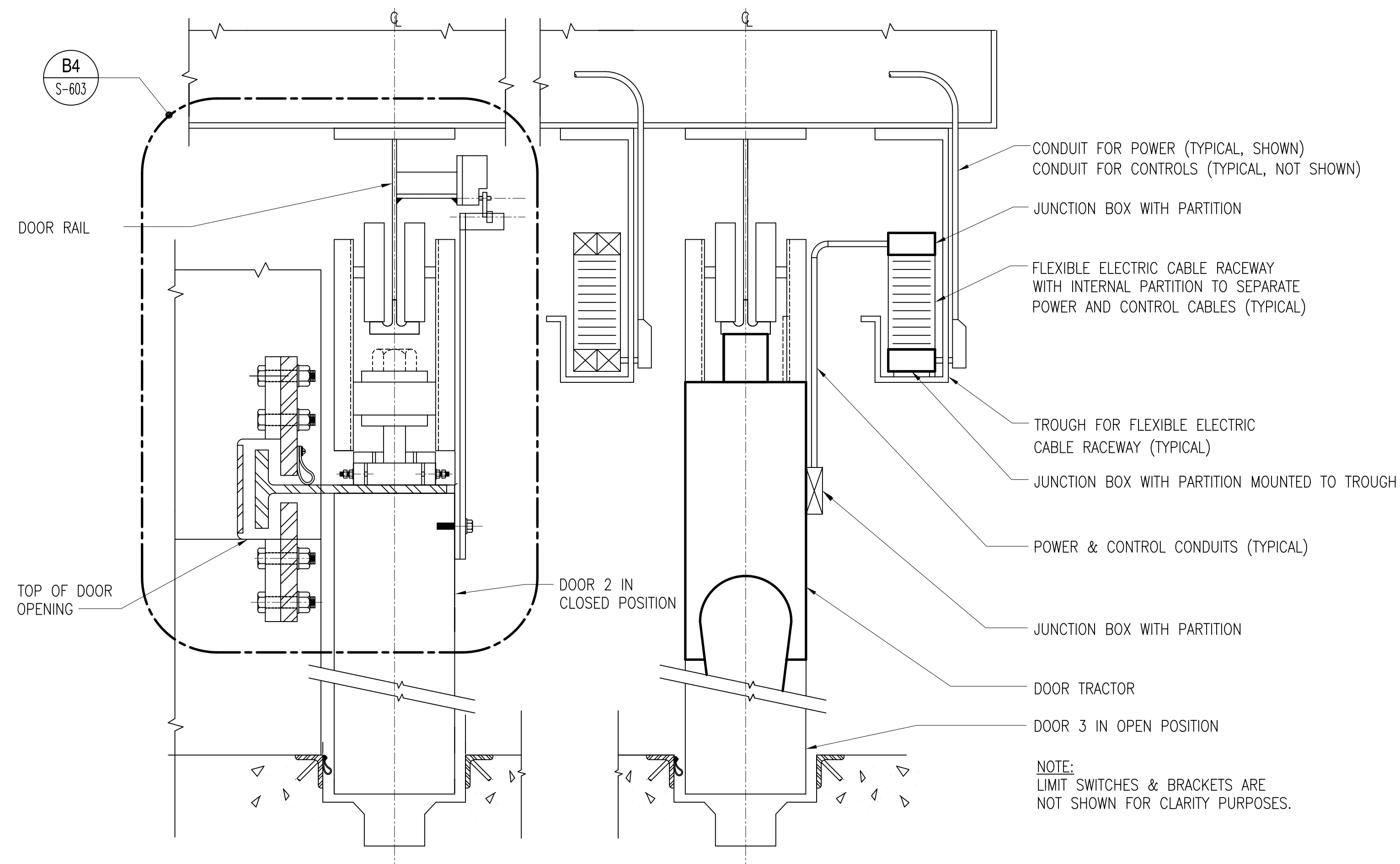
DRAWFORM REVISION: 10 MARCH 2001



DETAIL
NOT TO SCALE

S-601

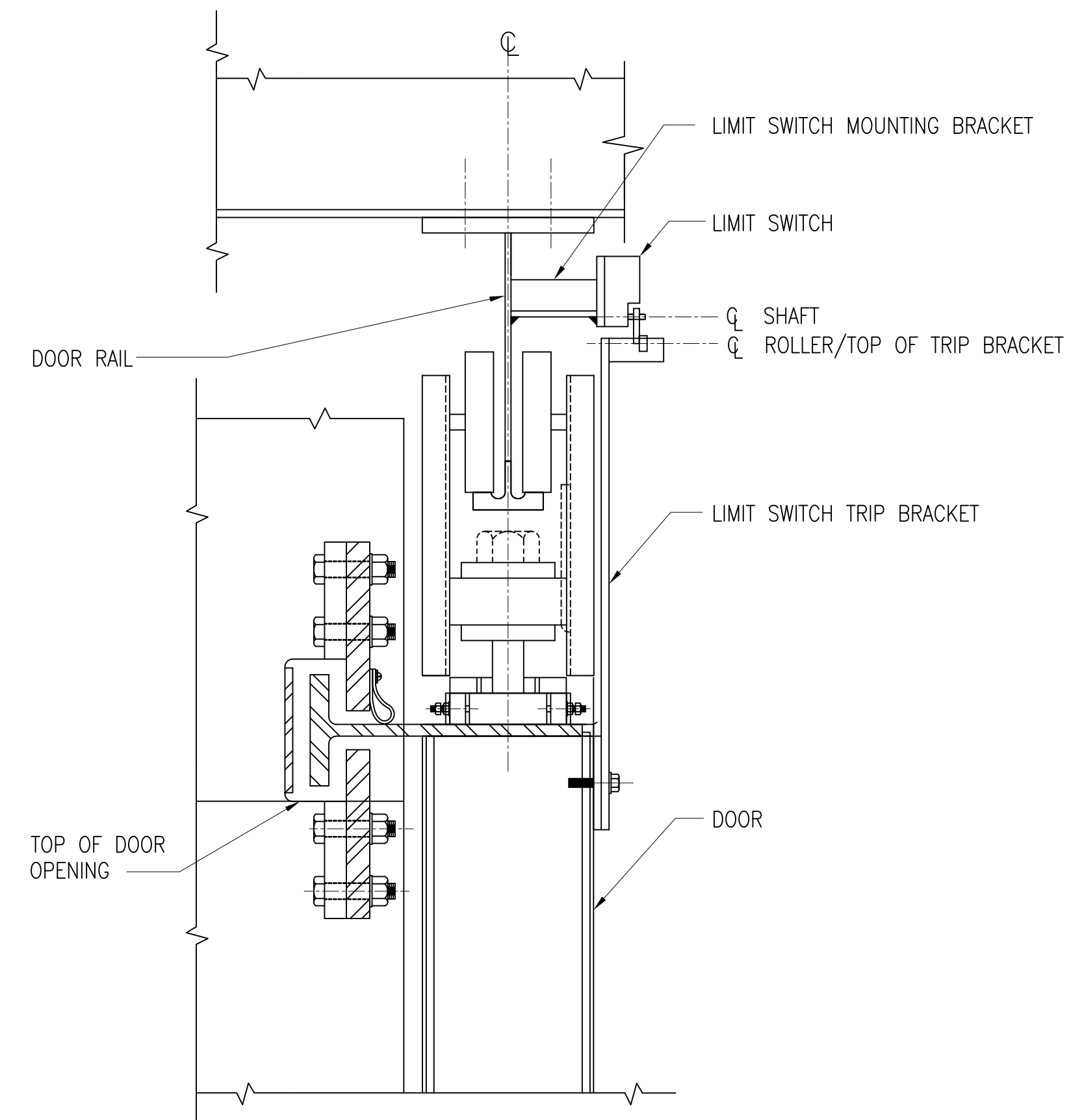
(C3)



SECTION
NOT TO SCALE

S-601

A3



DETAIL
NOT TO SCALE

S-603

(B4)

[illegible]

D

C

A

3

3 Δ

- ## NOTES TO DESIGNER

- 4

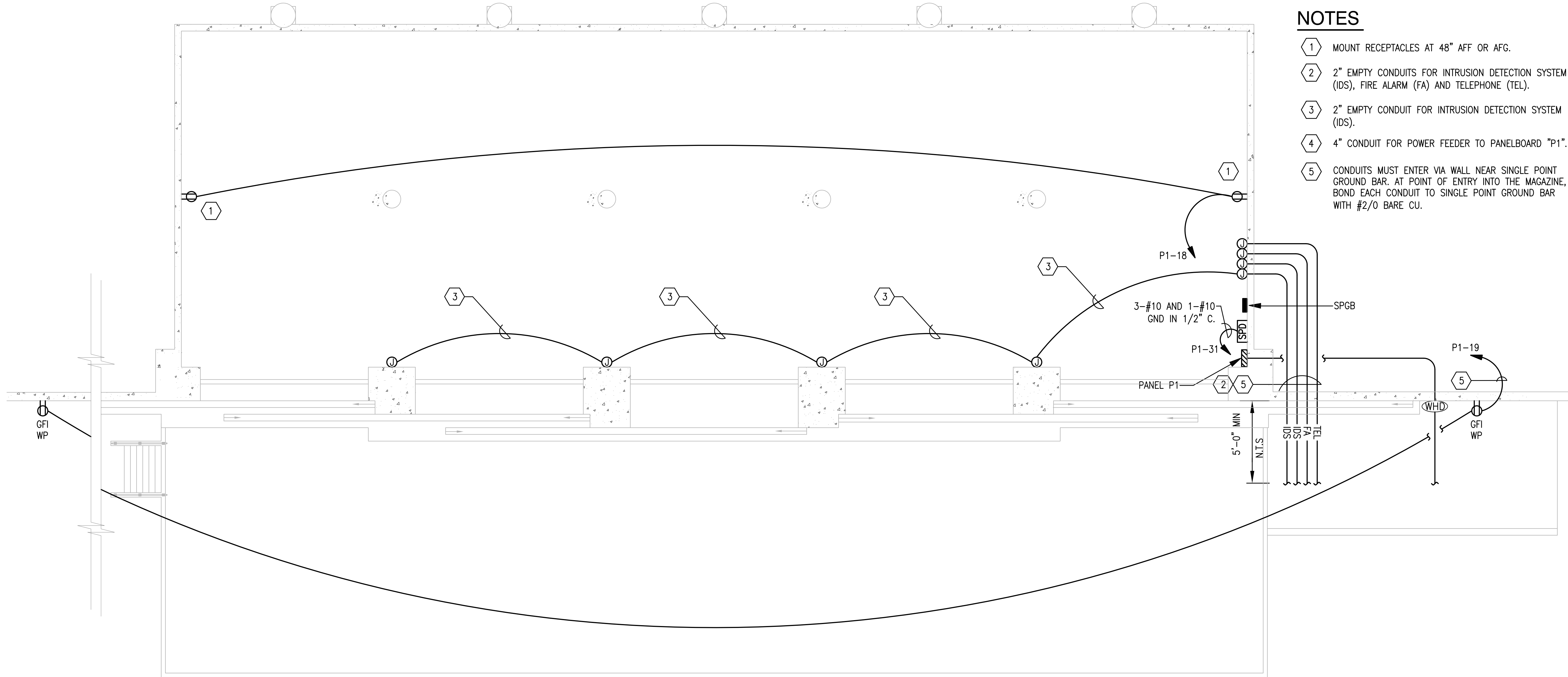
□

10

	E
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AADRAWFORM REVISION: 10 MARCH 2000

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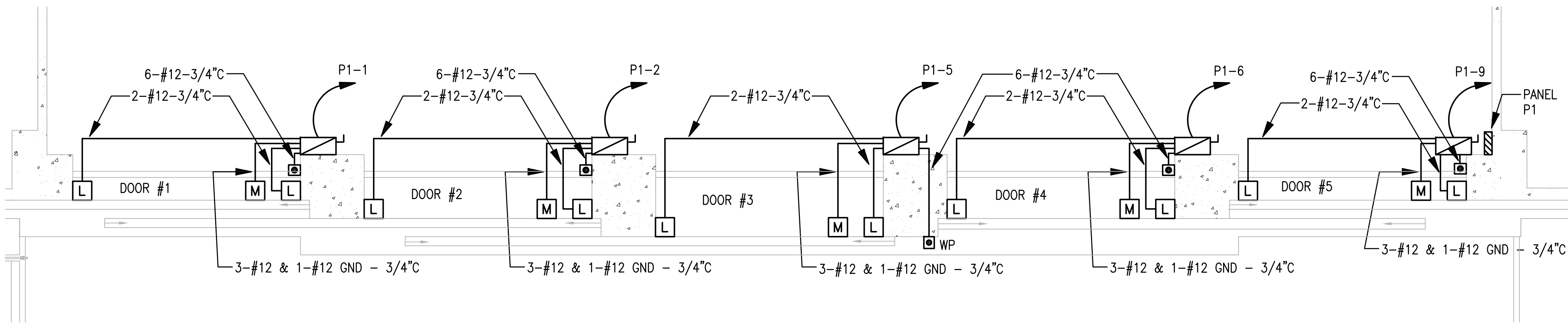


NOTES

- 1 MOUNT RECEPTACLES AT 48" AFF OR AFG.
- 2 2" EMPTY CONDUITS FOR INTRUSION DETECTION SYSTEM (IDS), FIRE ALARM (FA) AND TELEPHONE (TEL).
- 3 2" EMPTY CONDUIT FOR INTRUSION DETECTION SYSTEM (IDS).
- 4 4" CONDUIT FOR POWER FEEDER TO PANELBOARD "P1".
- 5 CONDUITS MUST ENTER VIA WALL NEAR SINGLE POINT GROUND BAR. AT POINT OF ENTRY INTO THE MAGAZINE, BOND EACH CONDUIT TO SINGLE POINT GROUND BAR WITH #2/0 BARE CU.

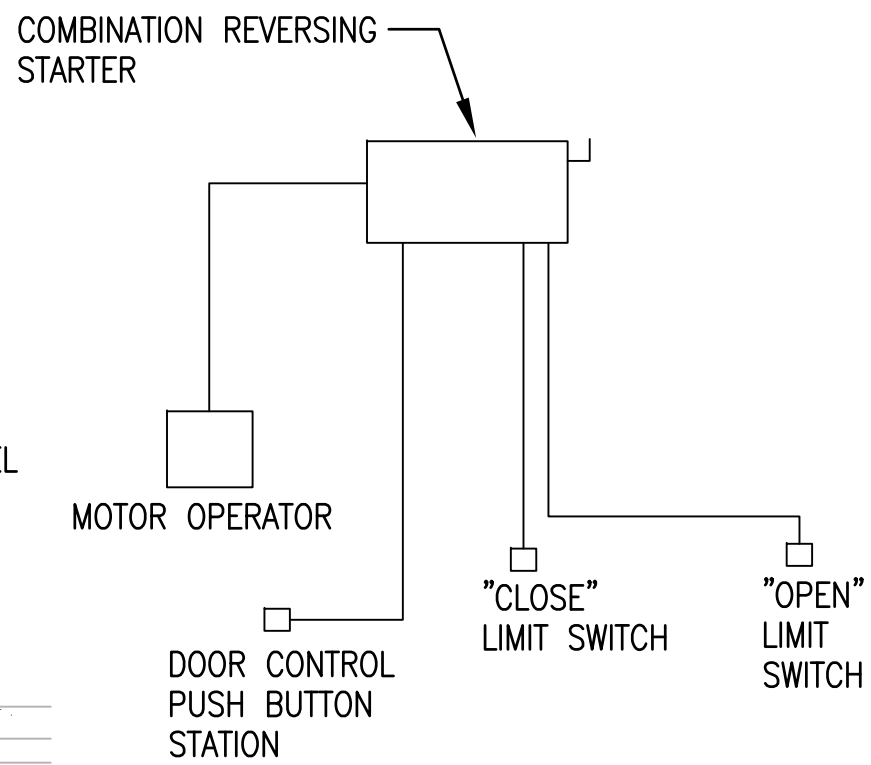
POWER PLAN

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



PARTIAL POWER PLAN - DOOR CONTROLS

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



SLIDING DOOR WIRING INSTALLATION DIAGRAM

TYPICAL FOR DOORS 1, 2, 3, 4, AND 5

SLIDING DOOR WIRING INSTALLATION DIAGRAM NOTES

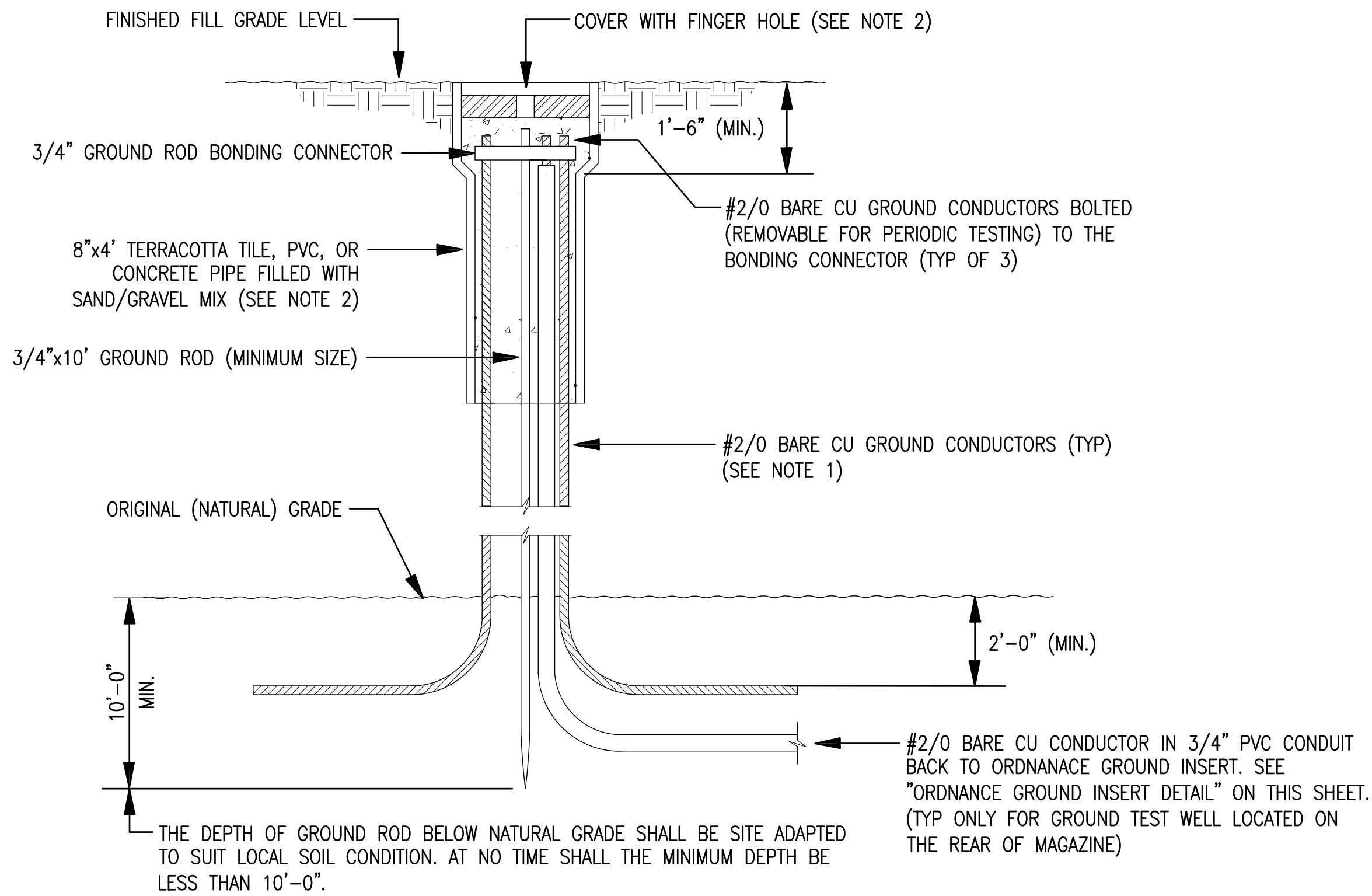
1. DESIGN USES 240V SINGLE PHASE POWER FOR THE MOTOR.
2. INCLUDE OPEN AND CLOSE LIMIT SWITCHES TO TURN OFF MOTOR IN THE MOTOR CONTROL CIRCUIT.
3. DOOR CONTROL PUSHBUTTON STATION SHALL BE MOUNTED 48" ABOVE PLATFORM. ROUTE CIRCUIT CONCEALED OUTSIDE OF THE MAGAZINE BACK TO THE COMBINATION REVERSING STARTER VIA THE SERVICE ENTRANCE PENETRATION.
4. THE EXACT LOCATION OF DOOR OPERATOR AND LIMIT SWITCHES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURER'S REQUIREMENTS.

GRAPHIC SCALE

1/8"=1'-0" 0' 5' 10' 20' 30'

APPR	DATE	SYN	DESCRIPTION
SEAL			
A/E INFO			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES	DRW	CHK	
PM/DM			
BRANCH MANAGER			
CHIEF ENG/ARCH			
EJG			
FIRE PROTECTION			
NAVAL FACILITIES ENGINEERING COMMAND			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES	DRW	CHK	
PM/DM			
BRANCH MANAGER			
CHIEF ENG/ARCH			
EJG			
FIRE PROTECTION			
NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC			
NORFOLK, VIRGINIA			
LANT CAPITAL IMPROVEMENTS			
TYPE D BOX MAGAZINE WITH LOADING PLATFORM			
POWER PLANS			
SCALE: AS NOTED			
PROJECT NO.:			
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO.			
14021437			
SHEET 31 OF 38			
E-102			
DRAWING REVISION: 10 MARCH 2009			

FILE NAME: J:\CISE\Magazines\Box D Final\Drawings\Box D WITH Platform\AutoCAD\Box D WITH PLATFORM.dwg LAYOUT NAME: E-501 PLOTTED: Wednesday, September 26, 2012 - 10:46am

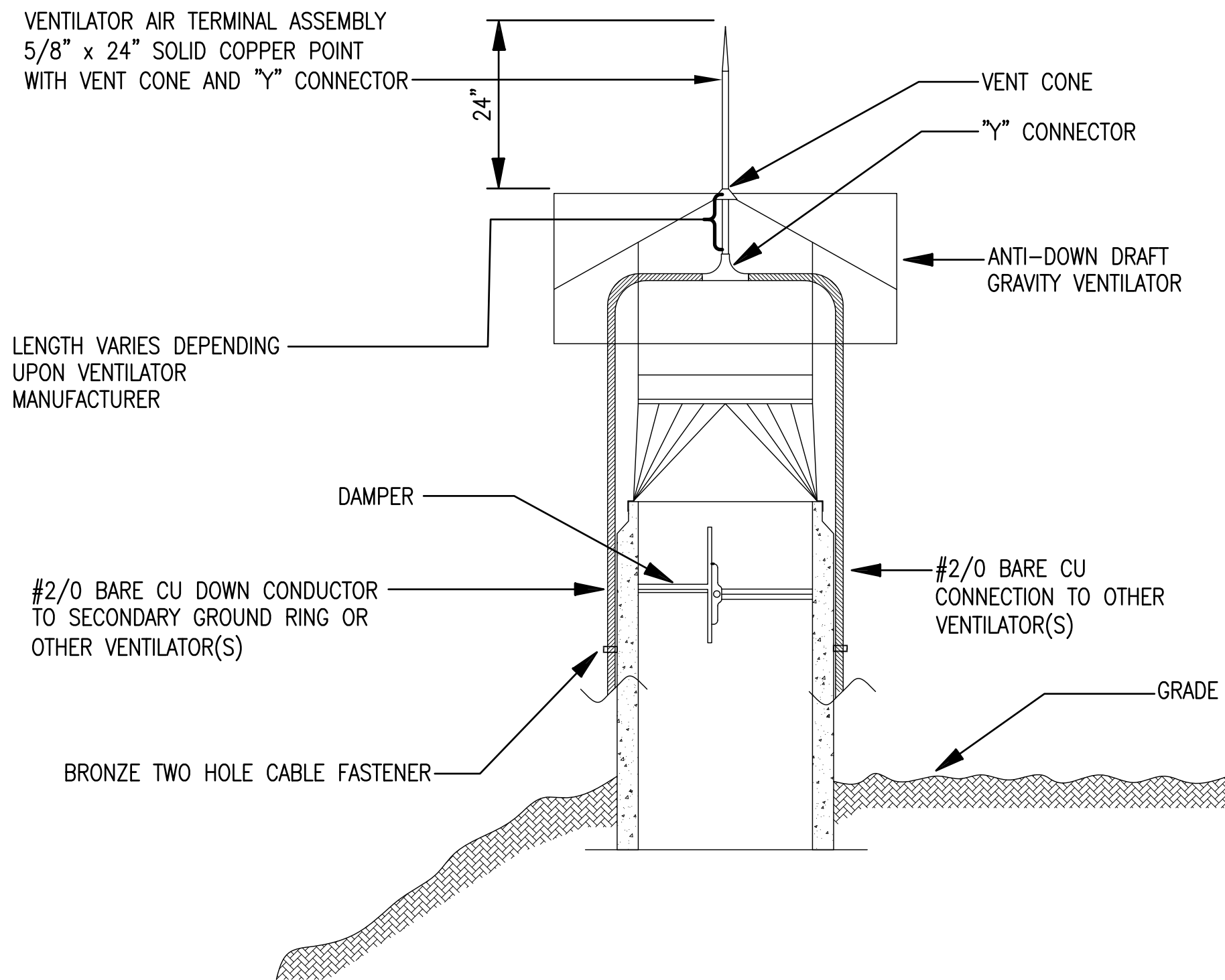


GROUND TEST WELL INSTALLATION IN EARTH FILL

N.T.S. E-103

C1

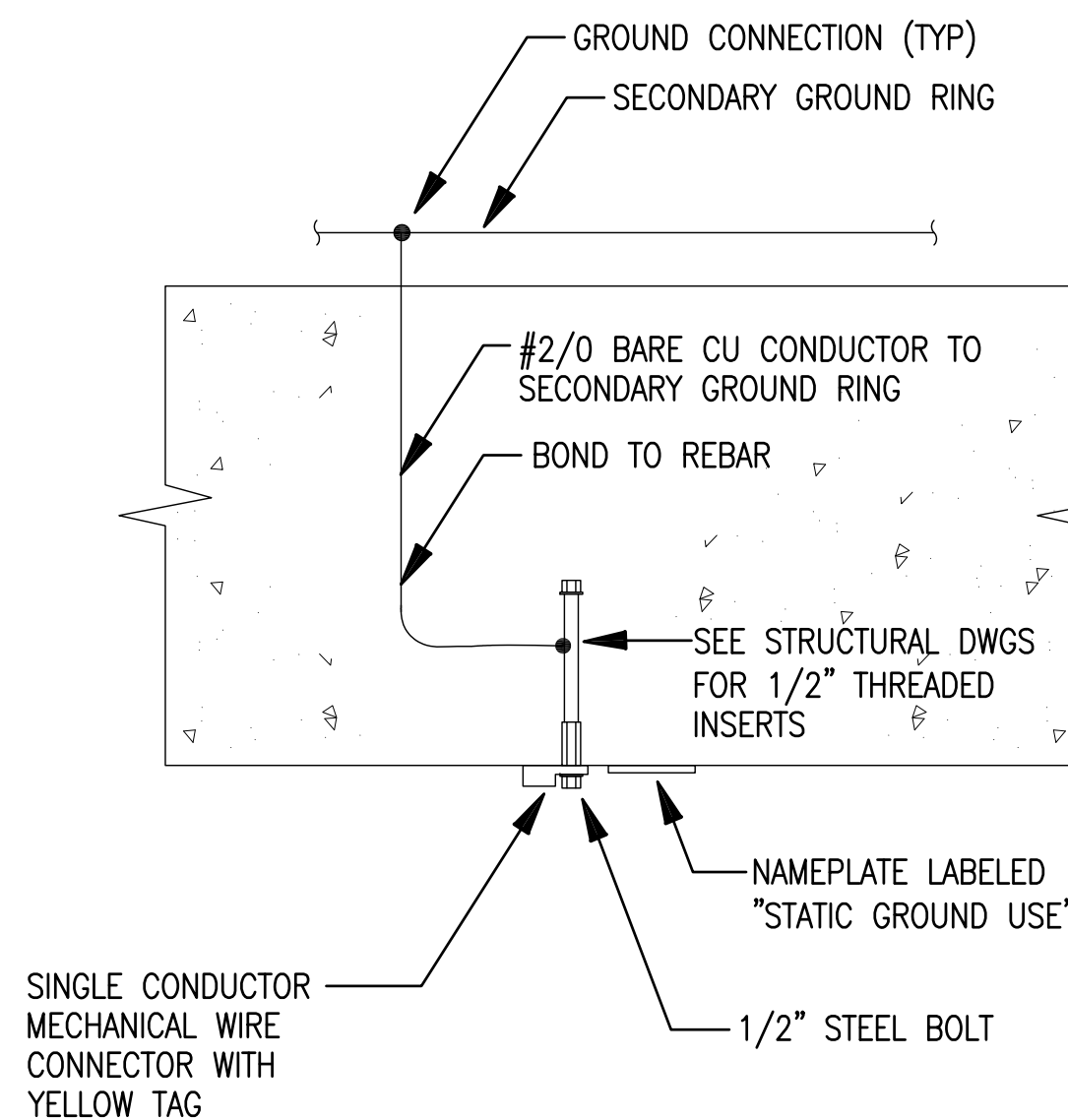
- NOTE 1: MAINTAIN THE GROUND CONDUCTORS ISOLATED FROM THE GROUND ROD UNTIL THE BOND CONNECTION AT THE TOP.
NOTE 2: PROVIDE "TRAFFIC RATED" TEST WELL AND COVER FOR PAVED AREAS.



TYPICAL VENTILATOR DETAIL

N.T.S. E-103

A1



STATIC GROUND INSERT DETAIL

N.T.S. E-103

A3

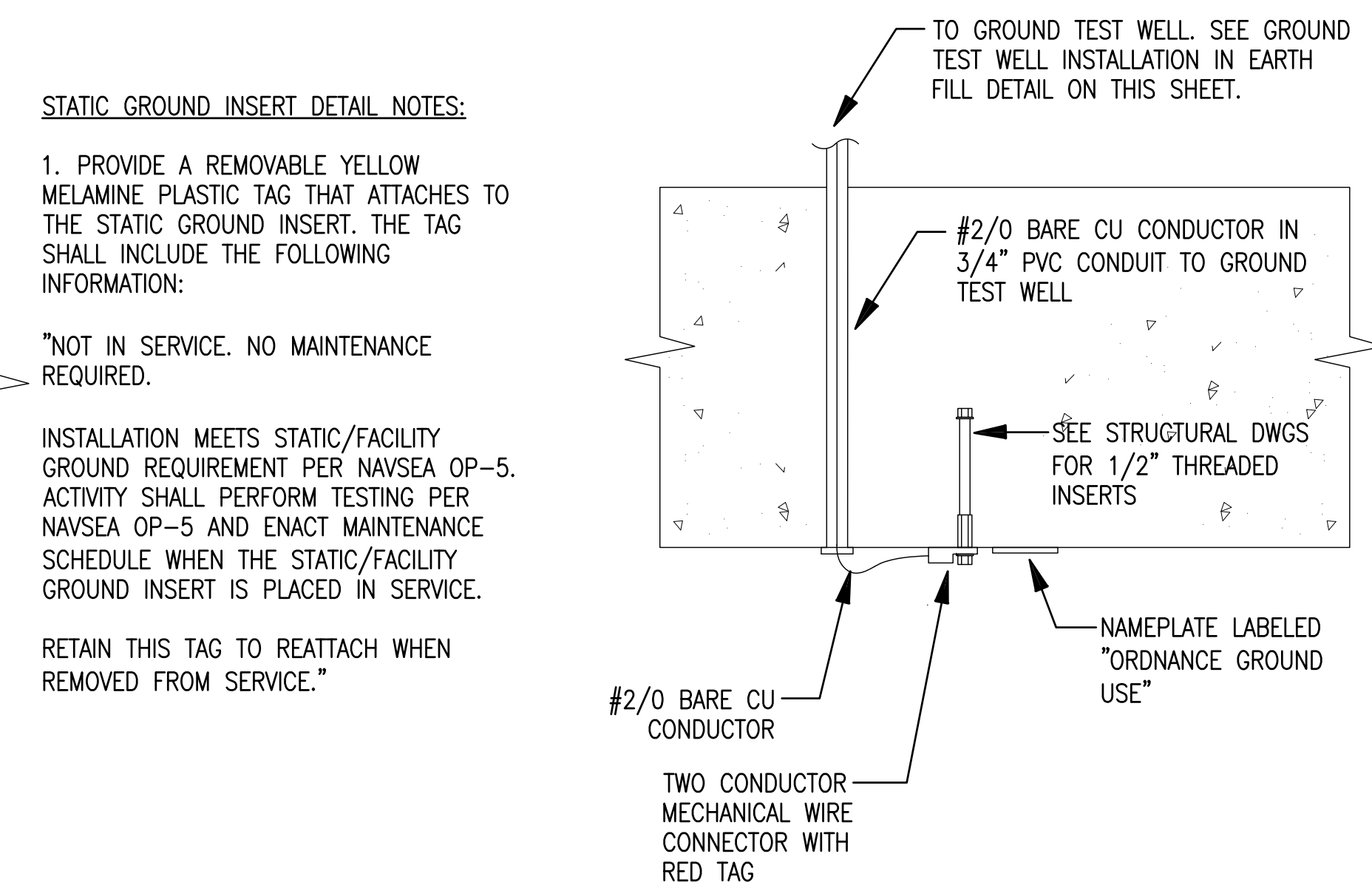
STATIC GROUND INSERT DETAIL NOTES:

1. PROVIDE A REMOVABLE YELLOW MELAMINE PLASTIC TAG THAT ATTACHES TO THE STATIC GROUND INSERT. THE TAG SHALL INCLUDE THE FOLLOWING INFORMATION:

"NOT IN SERVICE. NO MAINTENANCE REQUIRED.

INSTALLATION MEETS STATIC/FACILITY GROUND REQUIREMENT PER NAVSEA OP-5. ACTIVITY SHALL PERFORM TESTING PER NAVSEA OP-5 AND ENACT MAINTENANCE SCHEDULE WHEN THE STATIC/FACILITY GROUND INSERT IS PLACED IN SERVICE.

RETAIN THIS TAG TO REATTACH WHEN REMOVED FROM SERVICE."



ORDNANCE GROUND INSERT DETAIL NOTES:

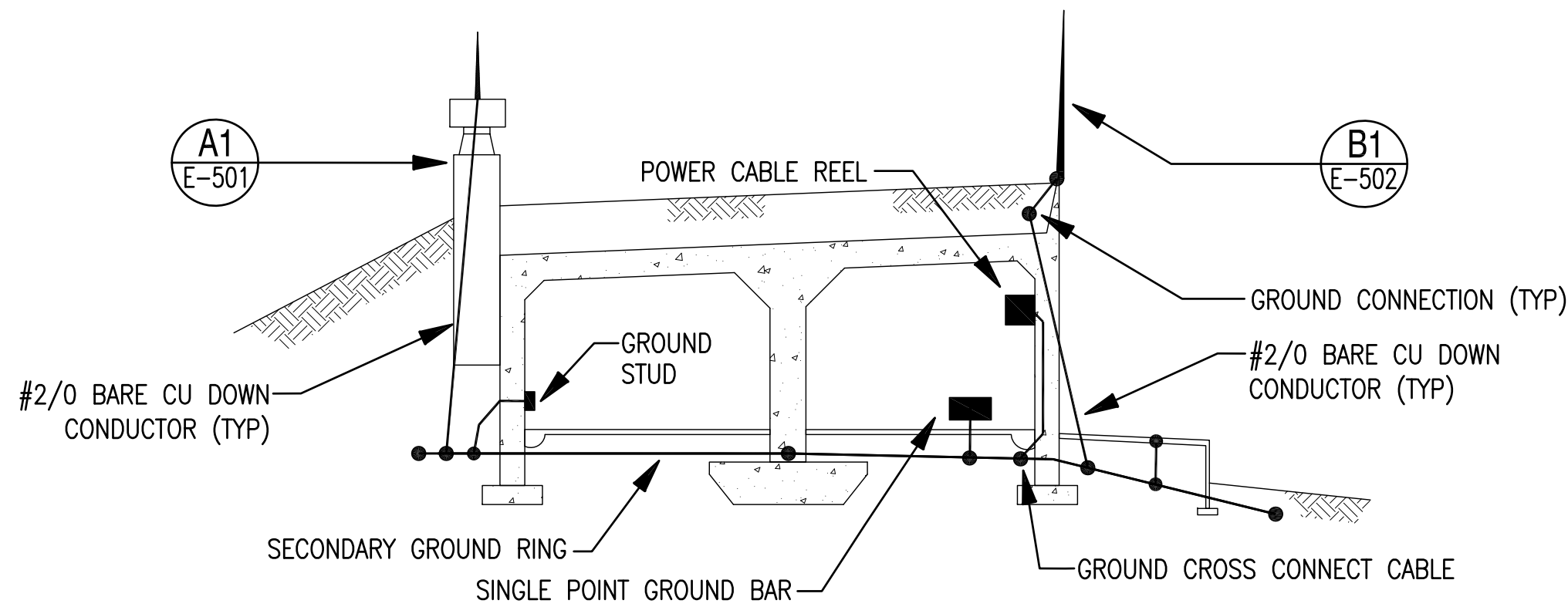
1. PROVIDE A REMOVABLE RED MELAMINE PLASTIC TAG THAT ATTACHES TO THE ORDNANCE GROUND INSERT. THE TAG SHALL INCLUDE THE FOLLOWING INFORMATION:

"NOT IN SERVICE. NO MAINTENANCE REQUIRED.

INSTALLATION MEETS ORDNANCE GROUND REQUIREMENT PER NAVSEA OP-5. ACTIVITY SHALL PERFORM TESTING PER NAVSEA OP-5 AND ENACT MAINTENANCE SCHEDULE WHEN THE ORDNANCE GROUND INSERT IS PLACED IN SERVICE.

RETAIN THIS TAG TO REATTACH WHEN REMOVED FROM SERVICE."

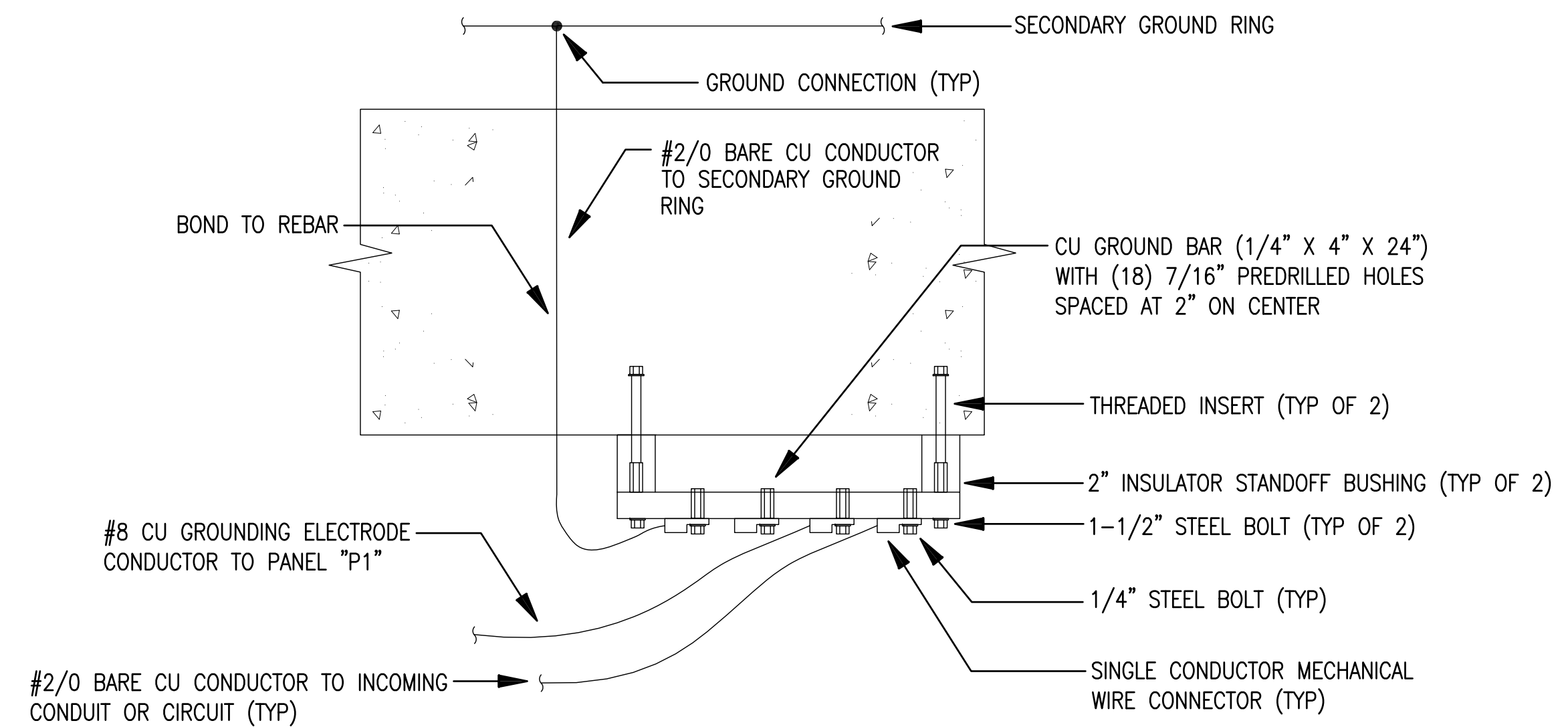
2. MAINTAIN THREADED INSERT ISOLATION. DO NOT ALLOW THE THREADED INSERT TO TOUCH REBAR OR OTHER METALLIC OBJECTS IN THE WALL.



GROUNDING SECTION DETAIL

N.T.S. E-103

C4



SINGLE POINT GROUND BAR DETAIL

N.T.S. E-103

D4



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES DRW CHK

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

EJG

NAV FACILITIES ENGINEERING COMMAND

NAV FACILITIES ENGINEERING COMMAND ATLANTIC

NAV FACILITIES ENGINEERING COMMAND ATLANTIC

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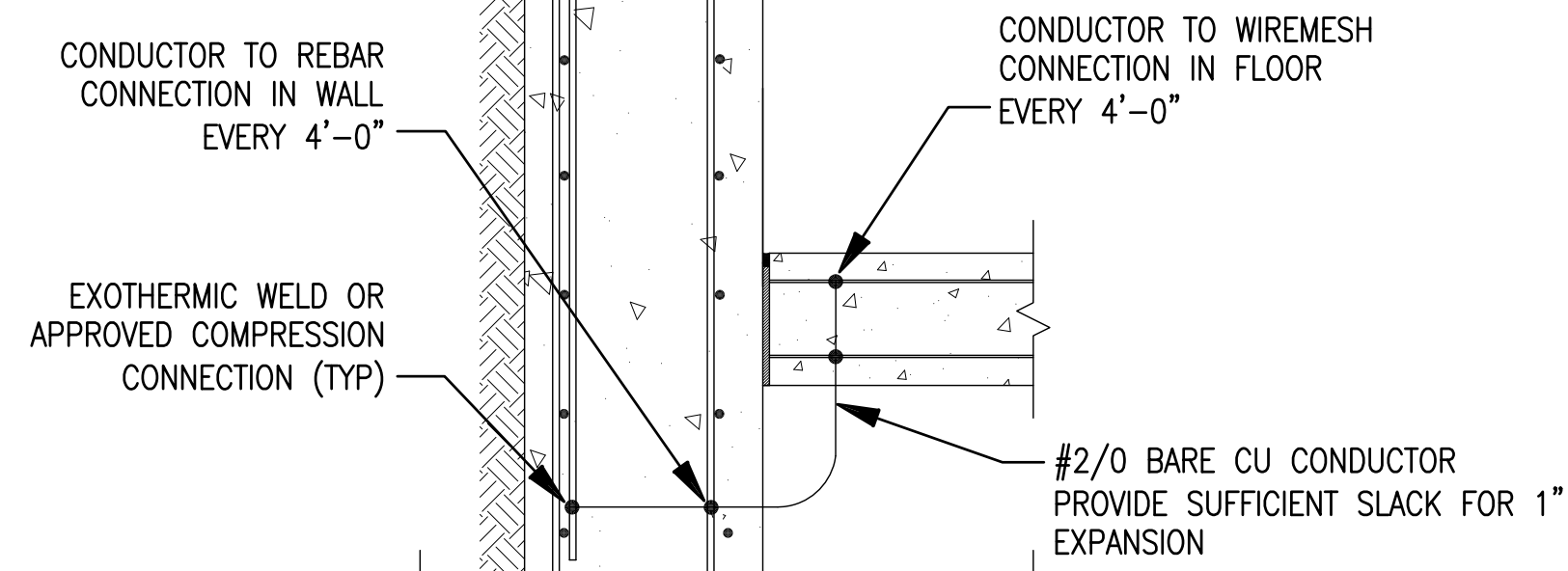
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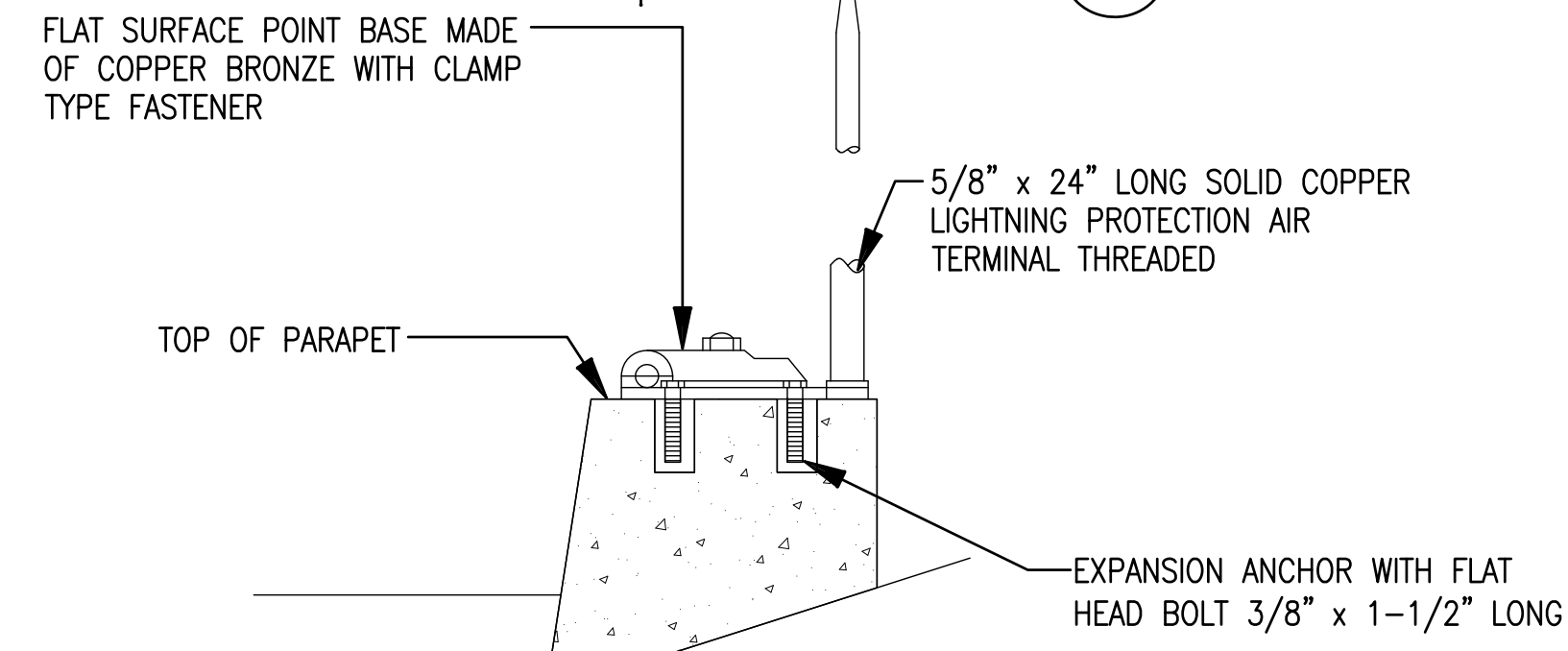
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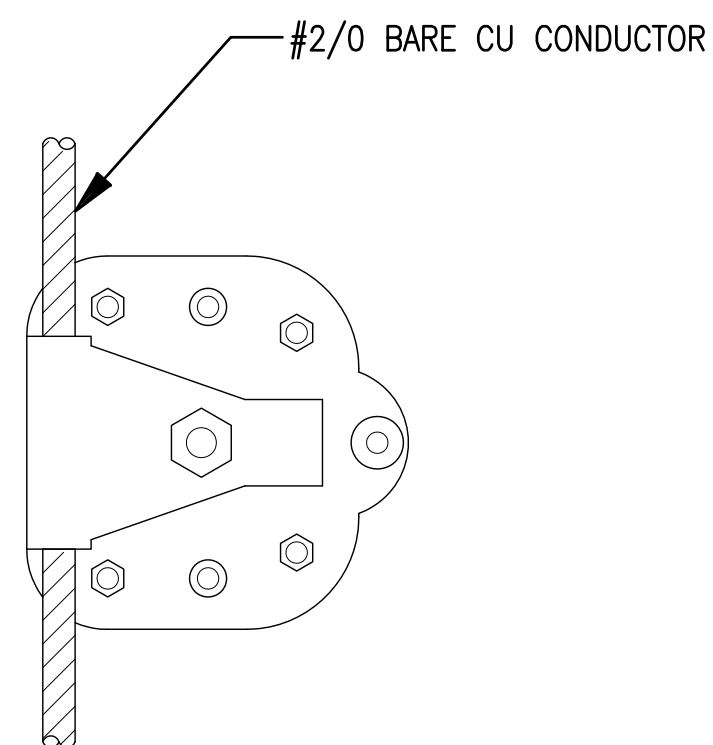
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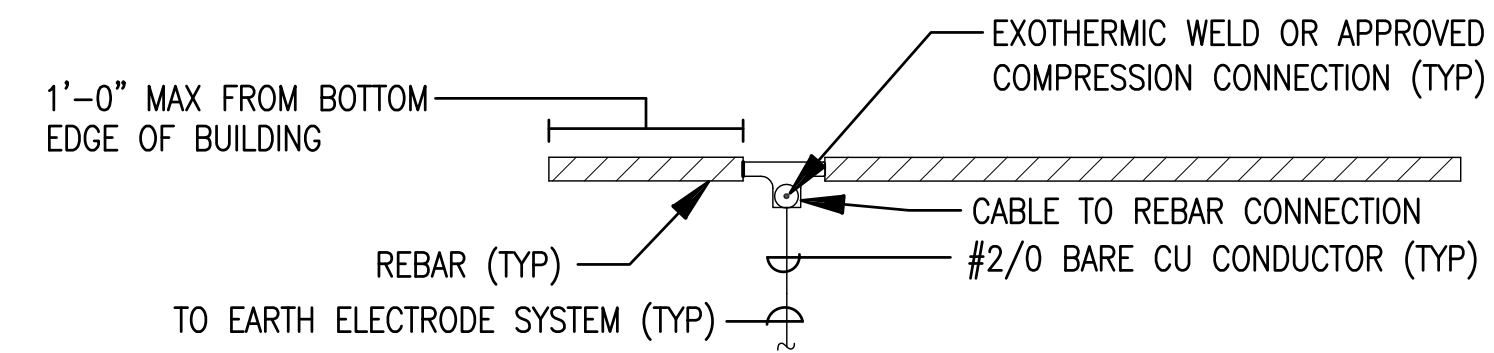
N.T.S
E-103



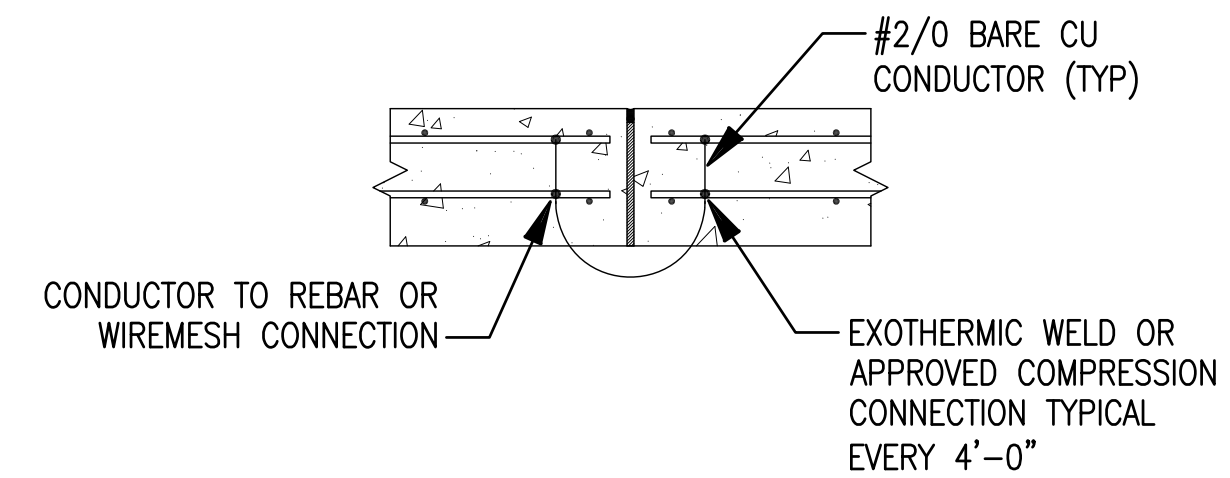
N.T.S. E-103



N.T.S. E-502



N.T.S
E-103



N.T.S. E-103

[illegible]



NOTES

1. PROVIDE POWER FROM A DEDICATED SINGLE PHASE TRANSFORMER RATED FOR 120/240V SECONDARY.
2. PROVIDE LIGHTNING ARRESTERS IN THE SINGLE PHASE TRANSFORMER.
3. THE DOOR AND DRAIN PIPE HEAT TRACING CIRCUITS ONLY APPLY IF HEAT TRACING IS INSTALLED. SEE SHEET E-801.
4. ASTERISK INDICATES THAT THE BREAKERS ARE SPARE IF HEAT TRACING IS NOT PROVIDED.

A

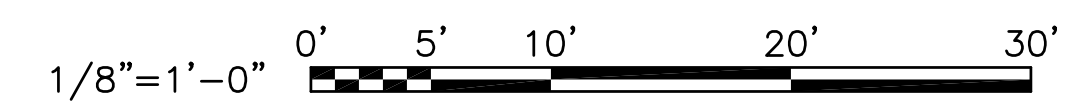


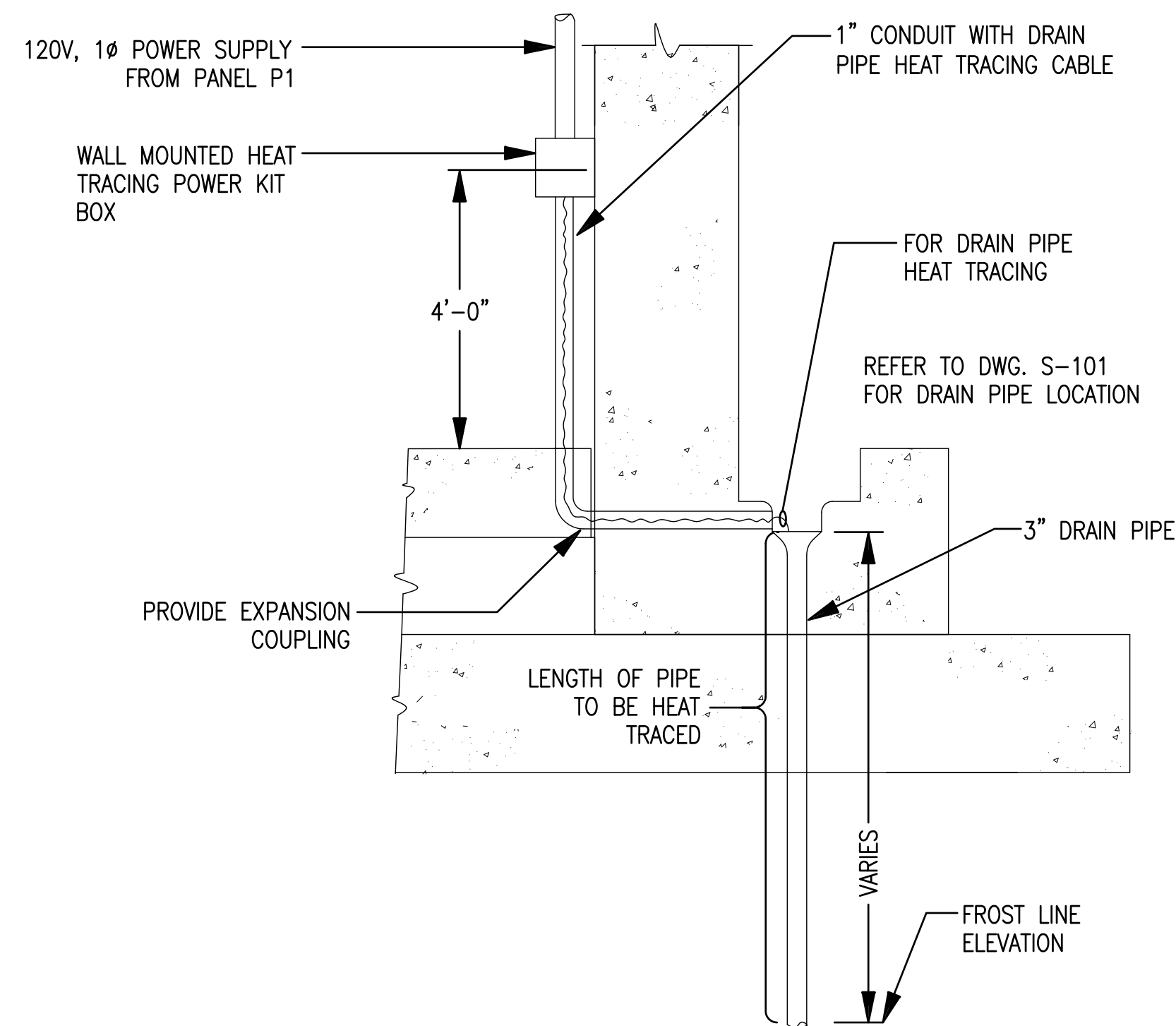
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SCALE : 1/8" = 1'-0"

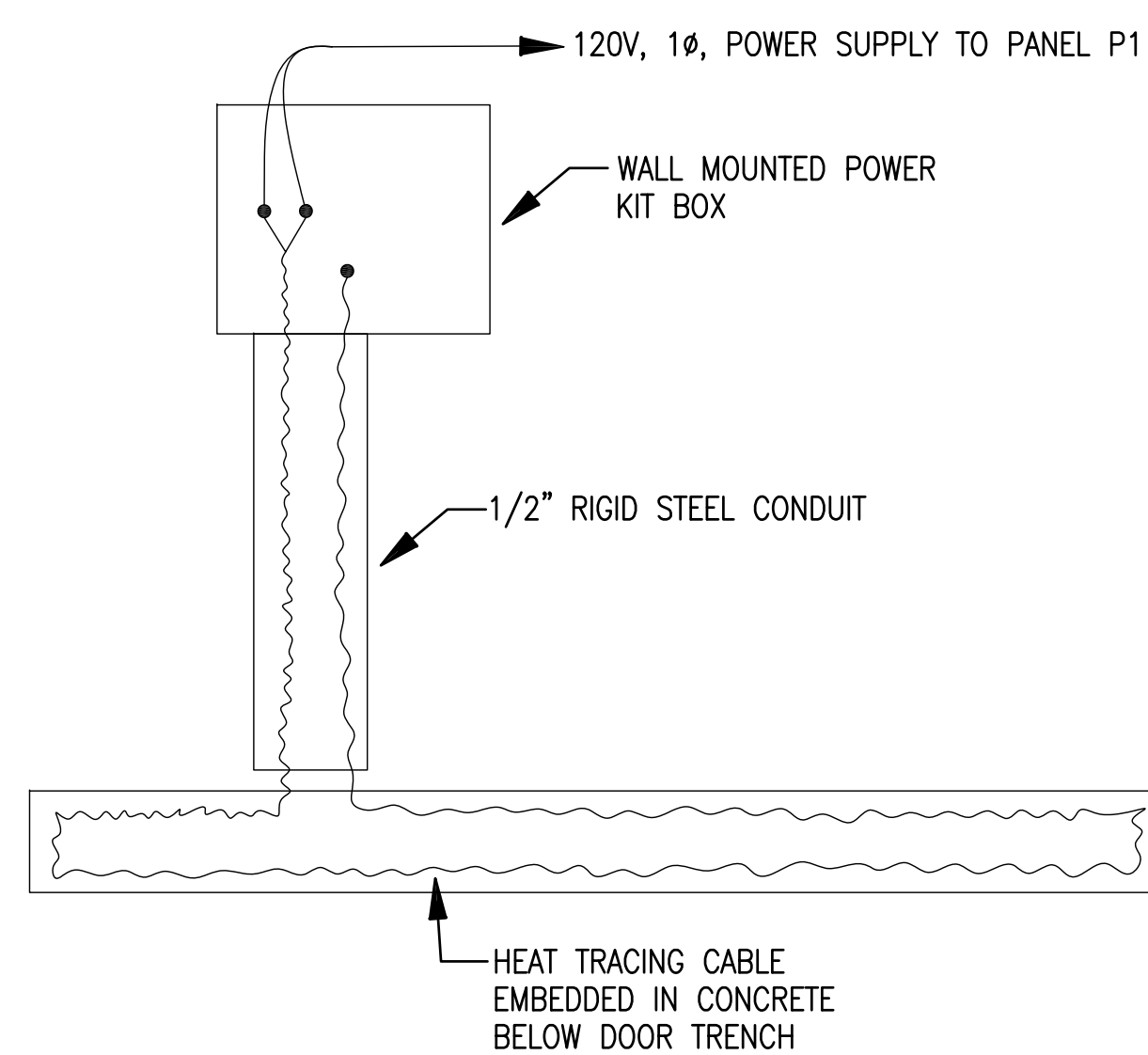
GRAPHIC SCALE

[illegible]



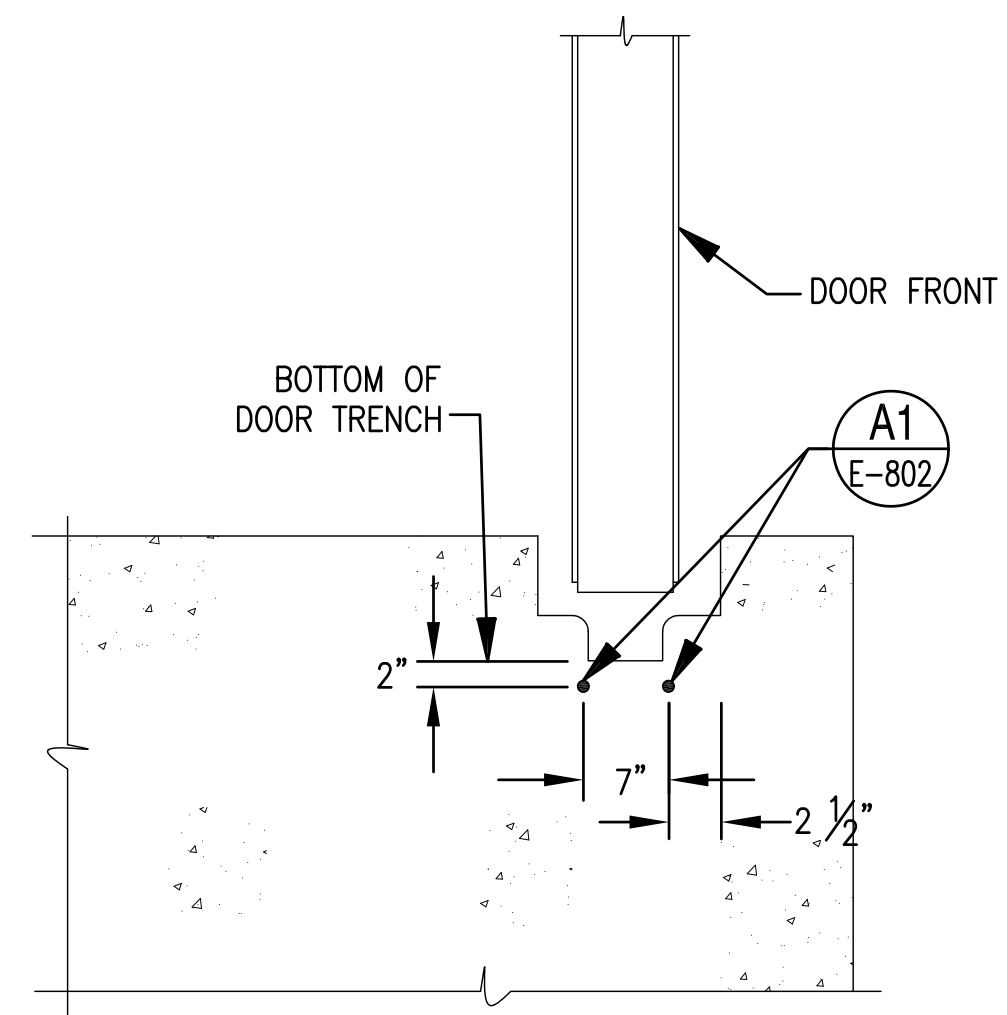
DRAIN PIPE HEAT TRACING DETAIL

N.T.S. E-801 **C1**



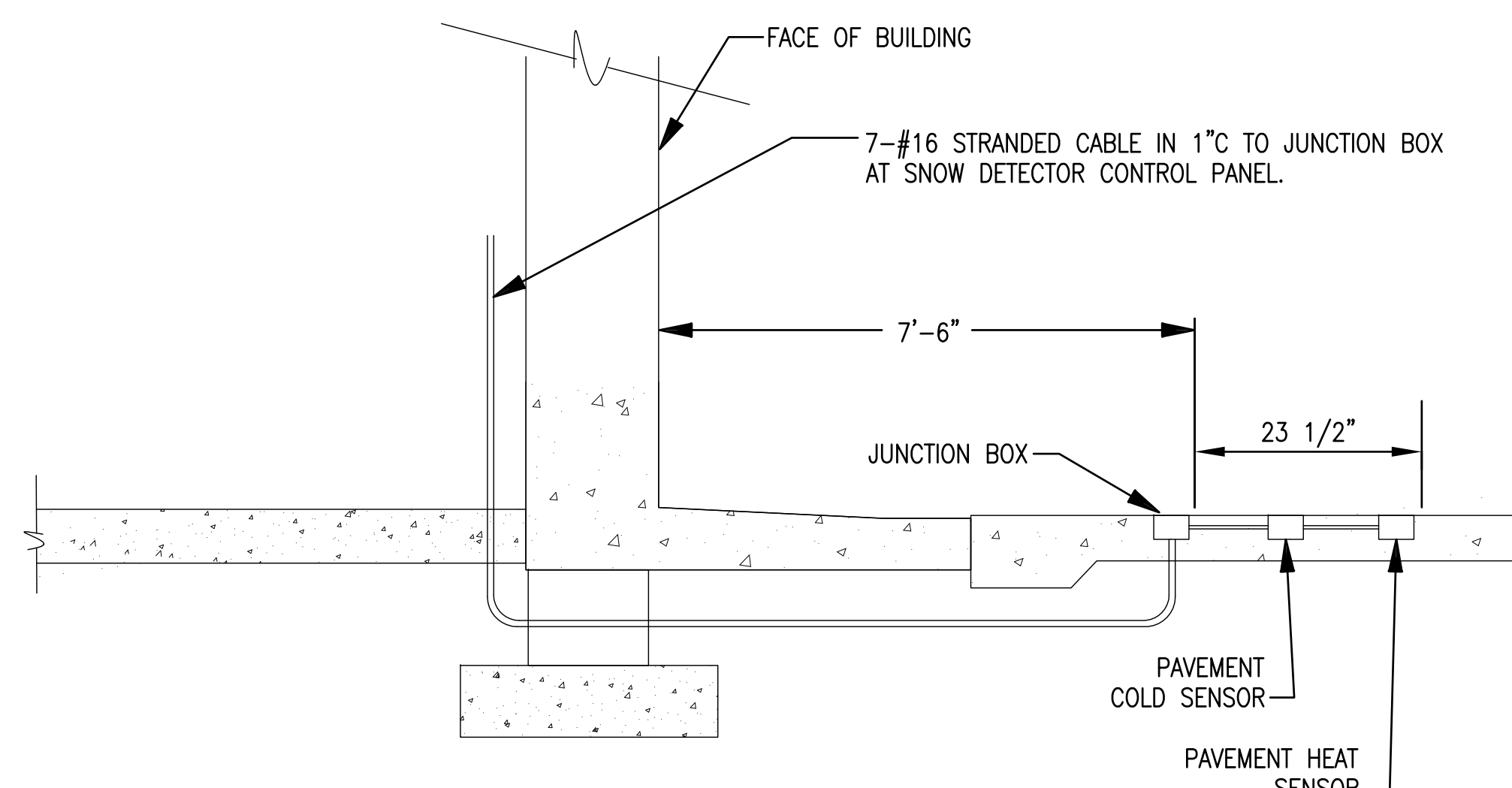
TYPICAL DOOR TRENCH HEAT
TRACING WIRING DIAGRAM

N.T.S. E-802 A1



HEAT TRACING CABLE DETAIL

N.T.S. E-801 C4



SNOW DETECTOR LOCATION DETAIL

[illegible]