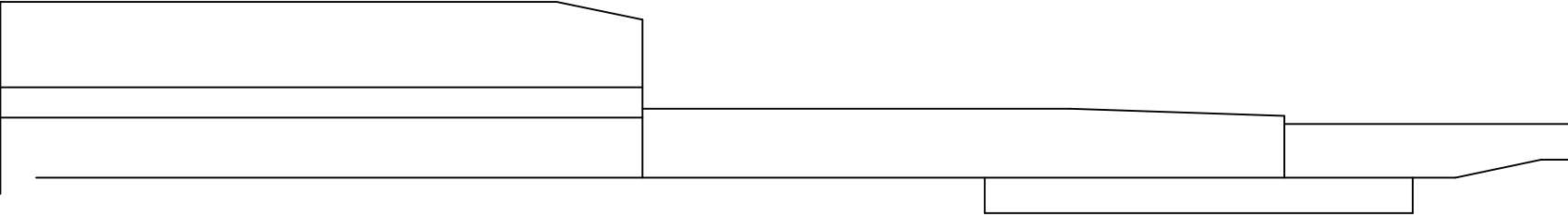


CELL	DESCRIPTION	GROUP
P00001	Bridge approach slab elevation	full scale objects
P00002	Integral abutment drainage elevation	full scale objects
P00003	Steel plate beam guardrail section	full scale objects
P00004	Steel sheet piling	full scale objects
P00005	Type 5 traffic barrier terminal elevation	full scale objects
P00006	Type 5 traffic barrier terminal plan, Rt.	full scale objects
P00007	Type 6 traffic barrier terminal elevation	full scale objects
P00008	Type 6 traffic barrier terminal plan, Rt.	full scale objects
P00020	Curve data	information
P00021	Design specifications	information
P00022	Design stresses	information
P00023	Highway classification	information
P00024	Loading	information
P00025	Seismic data	information
P00030	Design scour elevation table	information
P00031	Location sketch	information
P00032	Waterway information table, bridge and culvert	information
P00033	Waterway information table, bridge and overflow	information
P00034	Waterway information table, bridge, large	information
P00040	Section thru integral abutment for PPC beams	abutment sections
P00041	Section thru integral abutment for steel beams or girders	abutment sections
P00042	Section thru pile supported stub abutment for PPC beams	abutment sections
P00043	Section thru pile supported stub abutment for steel beams or girders	abutment sections
P00044	Section thru semi-integral abutment for PPC beams	abutment sections
P00045	Section thru semi-integral abutment for steel beams or girders	abutment sections
P00046	Riprap for section thru abutment	slope treatment for abut sect.
P00047	Sloped wall for section thru abutment	slope treatment for abut sect.
P00048	Section thru filled vaulted abutment	abutment sections
P00050	Toe stone riprap treatment for stream crossings	slope treatment
P00051	Flank stone riprap treatment for stream crossings	slope treatment
P00052	Section thru bituminous coated aggregate sloped wall	slope treatment
P00053	Section at edge of bituminous coated aggregate sloped wall	slope treatment
P00054	Section thru concrete sloped wall (from stub abutment)	slope treatment
P00055	Section thru concrete sloped wall (from integral abutment)	slope treatment
P00056	Section at edge of concrete sloped wall	slope treatment
P00060	Railing end treatment elevation for type 5 terminal and aluminum railing	special rail treatment

CELL	DESCRIPTION	GROUP
P00061	Railing end treatment elevation for type 6 terminal and aluminum railing	special rail treatment
P00062	Railing end treatment section for type 5 terminal and aluminum railing	special rail treatment
P00063	Railing end treatment section for type 6 terminal	special rail treatment
P00064	Railing end treatment elevation for type 6 terminal and bridge fence or parapet railing	special rail treatment
P00070	MSE wall with CIP coping section	walls
P00071	Soldier pile wall with concrete facing section	walls
P00077	Multiple round column grade separation pier sketch (3)	piers
P00078	Multiple round column grade separation pier sketch (4)	piers
P00079	Multiple round column grade separation pier sketch (5)	piers
P00080	Solid, spread footing pier sketch	piers
P00081	Solid, battered, spread footing pier sketch	piers
P00082	Solid, with cap and spread footing pier sketch	piers
P00083	Single hammerhead pier sketch	piers
P00084	Double hammerhead pier sketch	piers
P00085	2 column pier sketch	piers
P00086	3 column pier sketch	piers
P00087	4 column pier sketch	piers
P00088	2 column trapezoidal pier sketch	piers
P00089	Solid hammerhead pier sketch	piers
P00090	2 column trapezoidal pier with spread footing sketch	piers
P00091	3 column trapezoidal pier with spread footing sketch	piers
P00092	4 column trapezoidal pier with spread footing sketch	piers
P00093	5 column trapezoidal pier with spread footing sketch	piers
P00094	2 bay railroad pier with round columns sketch	piers
P00095	3 bay railroad pier with round columns sketch	piers
P00096	4 bay railroad pier with round columns, modified, sketch	piers
P00097	5 bay railroad pier with round columns sketch	piers
P00098	Encased pile bent pier sketch	piers
P00099	Pile bent pier sketch	piers
P00100	Individually encased pile bent pier sketch	piers
P00110	Safety walk and parapet removal details	retrofit
P00111	Parapet retrofit detail	retrofit

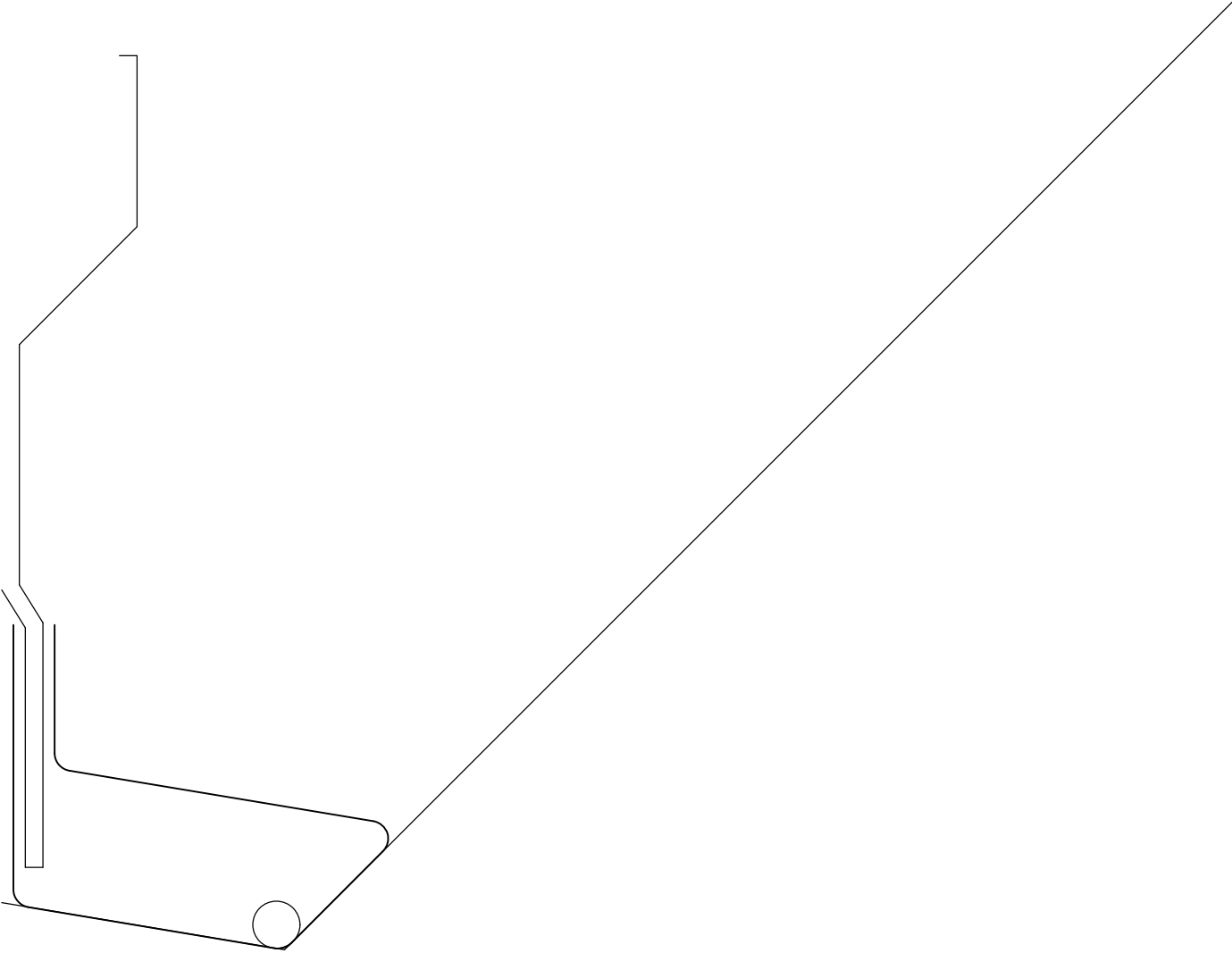
Cell Name: P00001

Descrip: Bridge approach slab elevation



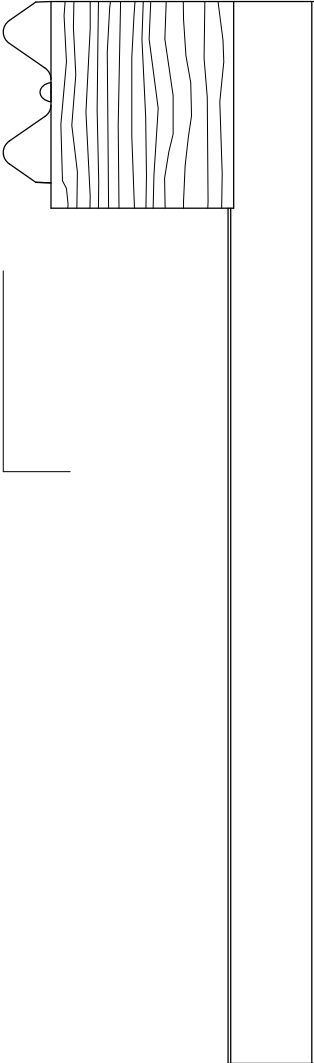
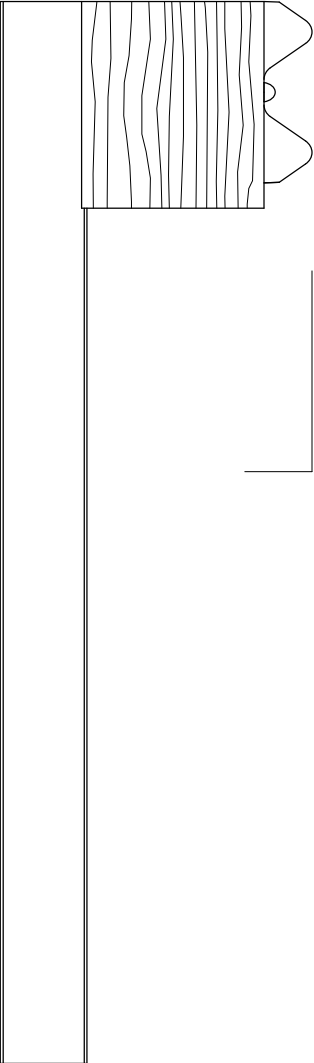
Cell Name: P00002

Descrip: Integral abutment drainage elevation

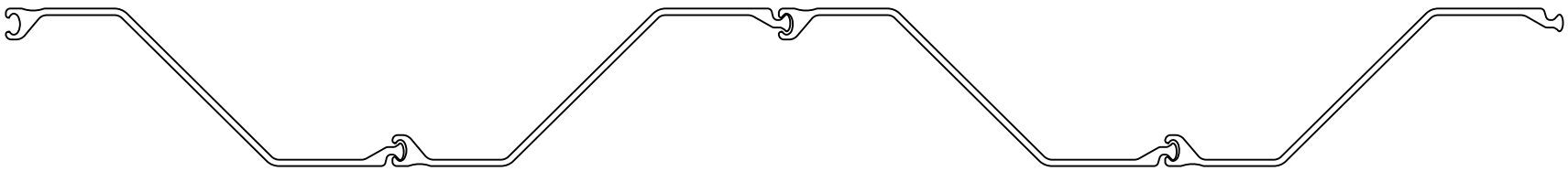


Cell Name: P00003

Descrip: Steel plate beam guardrail section

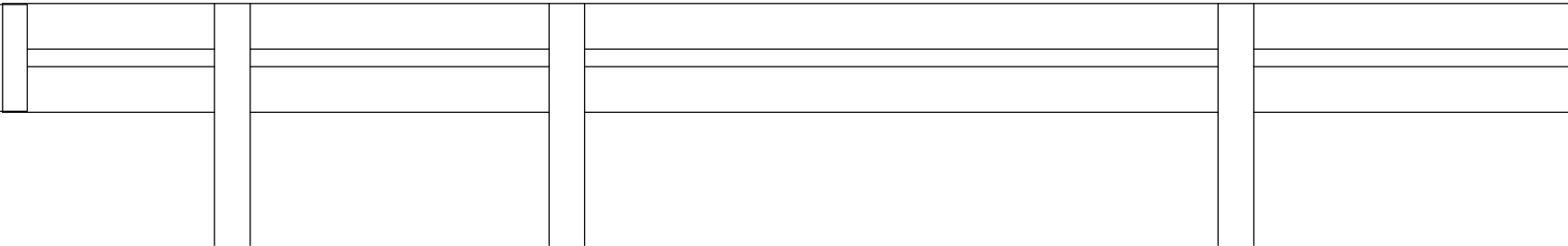


Cell Name: P00004
Descrip: Steel sheet piling



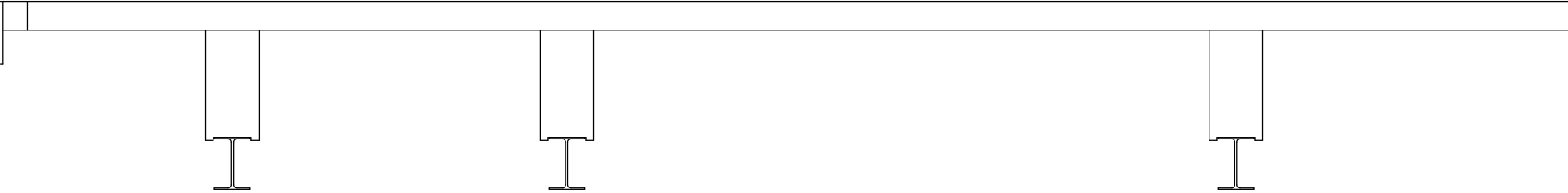
Cell Name: P00005

Descrip: Type 5 traffic barrier terminal elevation



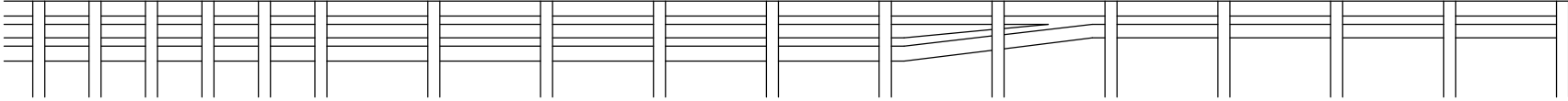
Cell Name: P00006

Descrip: Type 5 traffic barrier terminal plan, Rt



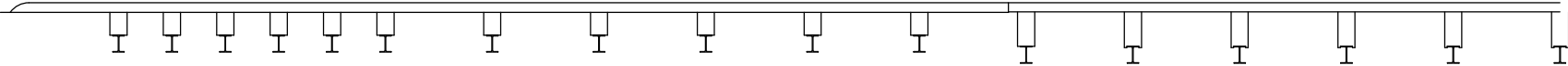
Cell Name: P00007

Descrip: Type 6 traffic barrier terminal elevation



Cell Name: P00008

Descrip: Type 6 traffic barrier terminal plan, Rt.



Cell Name: P00020
Descrip: Curve data

CURVE DATA

P.I. Sta. =

Δ =

D =

R =

T =

L =

E =

e =

T.R. =

S.E. Run =

P.C. Sta. =

P.T. Sta. =

Cell Name: P00021

Descrip: Design Specifications

DESIGN SPECIFICATIONS

*2010 AASHTO LRFD Bridge Design Specifications,
5th Edition, with 2010 Interims*

Cell Name: P00022

Descrip: Design stresses

DESIGN STRESSES

FIELD UNITS

$$f'c = 3,500 \text{ psi}$$

$$fy = 60,000 \text{ psi (Reinforcement)}$$

$$fy = 50,000 \text{ psi (M270 Grade 50)}$$

Cell Name: P00023

Descrip: Highway classification

HIGHWAY CLASSIFICATION

Rte. - Rte.

Functional Class:

ADT: (20); (20)

ADTT: (20); (20)

DHV:

Design Speed: m.p.h.

Posted Speed: m.p.h.

- Way Traffic

Directional Distribution:

Cell Name: P00024
Descrip: Loading

LOADING HL - 93

Allow 50#/sq. ft. for future wearing surface.

Cell Name: P00025
Descrip: Seismic Data

SEISMIC DATA

Seismic Performance Zone (SPZ) =

Design Spectral Acceleration at 1.0 sec. (S_{D1}) =

Design Spectral Acceleration at 0.2 sec. (S_{DS}) =

Soil Site Class =

Cell Name: P00030

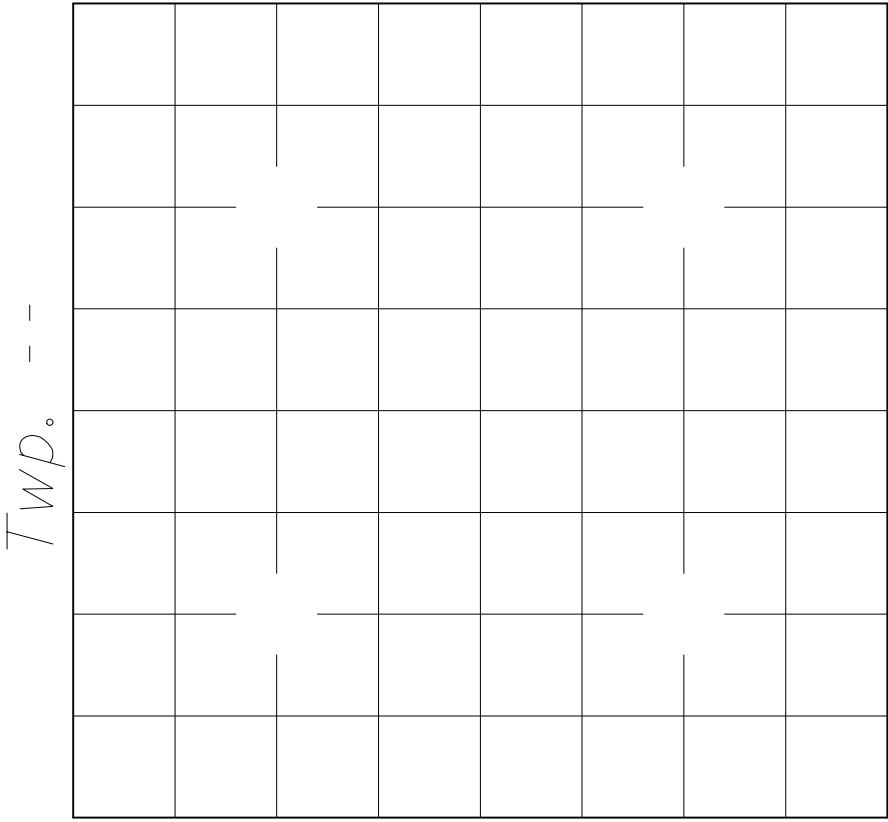
Descrip: Design scour elevation table

DESIGN SCOUR ELEVATION TABLE

<i>Design Scour Elevation (ft.)</i>	<i>- . Abut.</i>	<i>Pier -</i>	<i>- . Abut.</i>

Cell Name: P00031
Descrip: Location sketch

Range --, --- P.M.



Twp. --



LOCATION SKETCH

Cell Name: P00033

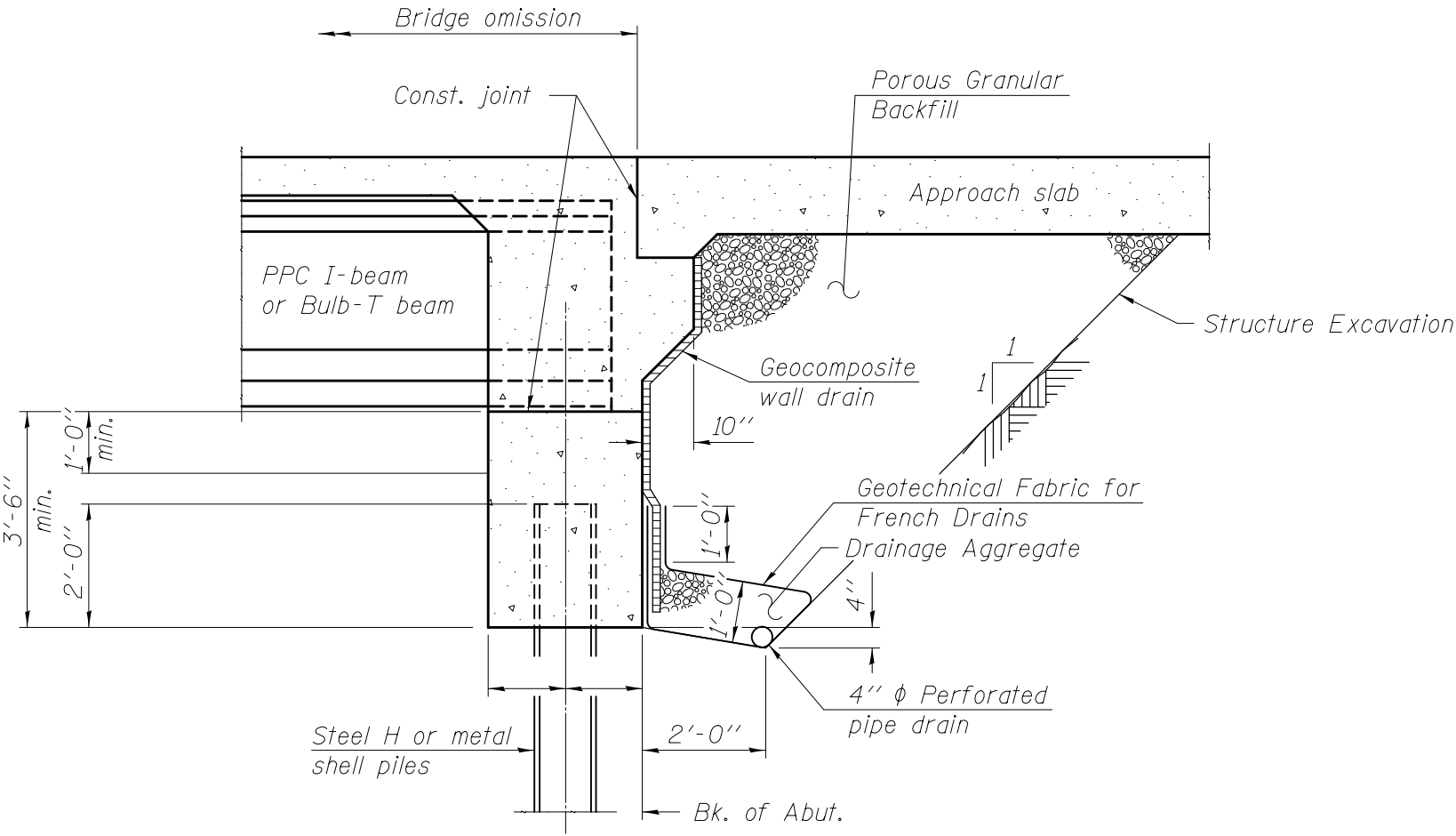
Descrip: Waterway information table, bridge and overflow

WATERWAY INFORMATION

		Drainage Area = - Low Grade Elev. - @ Sta. -								
Flood		Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
				Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
		10								
Design	Main Channel									
	Overflow									
	Total									
Base	Main Channel	100								
	Overflow									
	Total									
Maximum or Over-topping	Main Channel									
	Overflow									
	Total									

Cell Name: P00040

Descrip: Section thru integral abutment for PPC beams

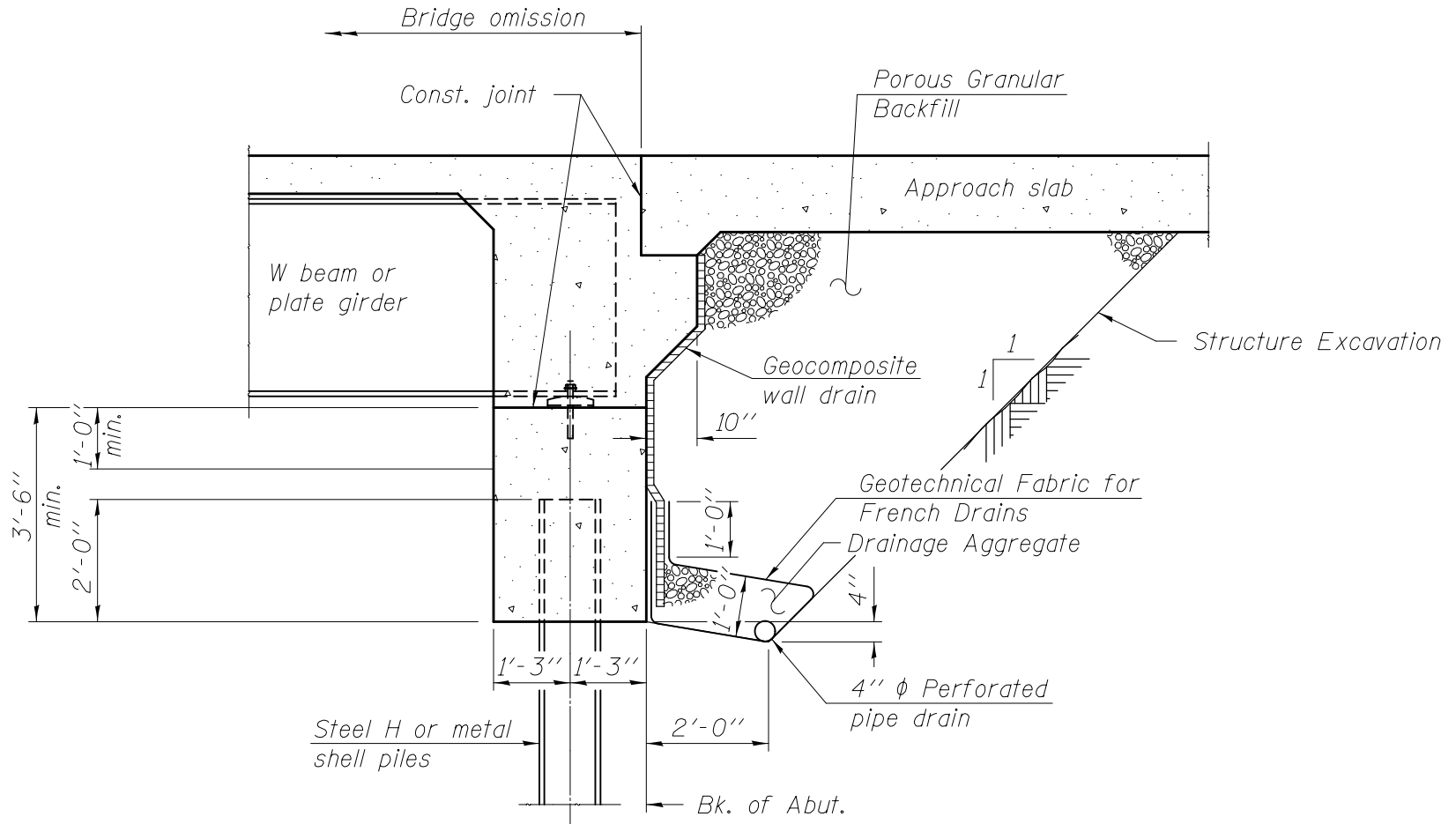


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

Cell Name: P00041

Descrip: Section thru integral abutment for steel beams or girders

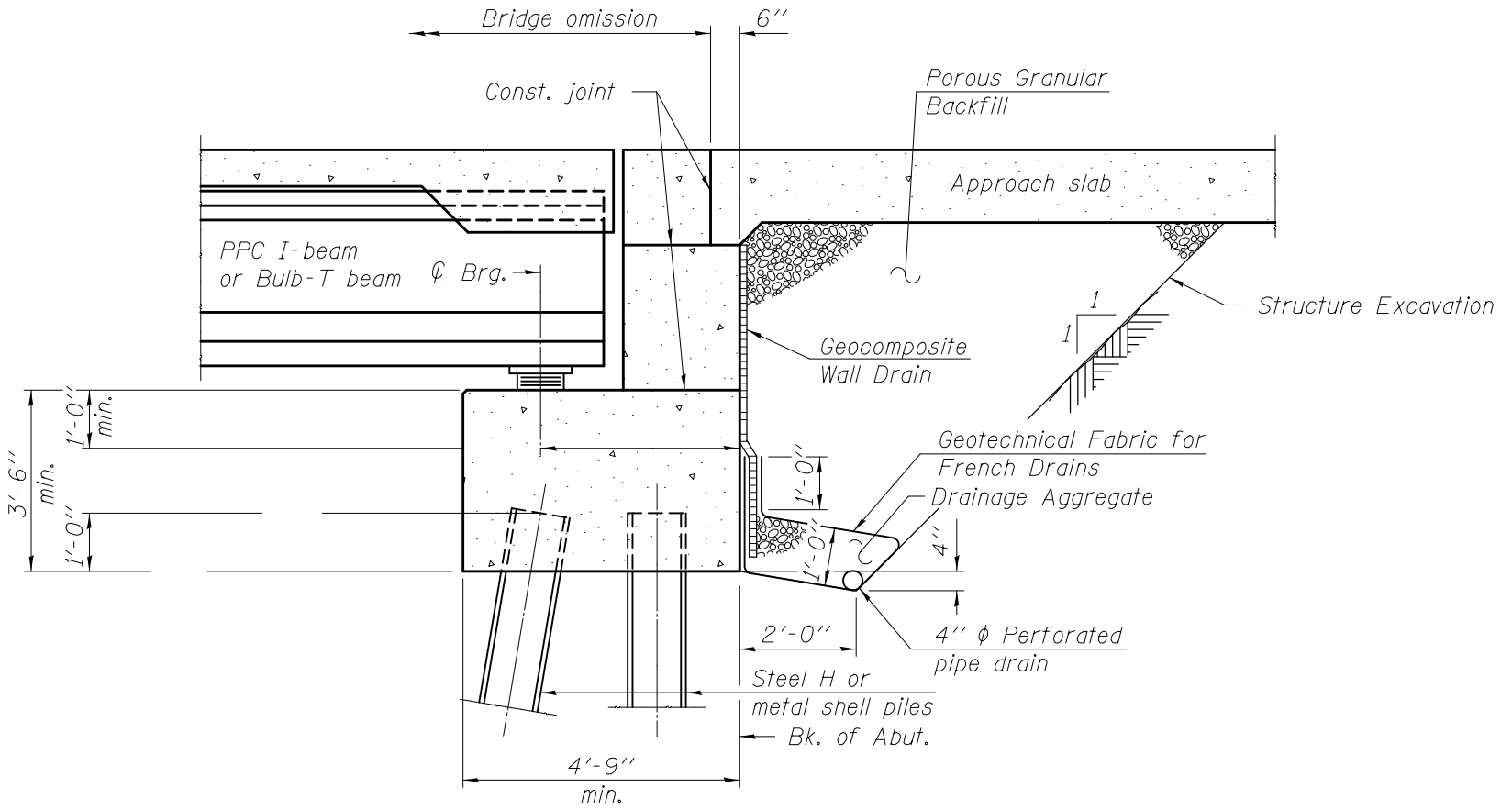


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

Cell Name: P00042

Descrip: Section thru pile supported stub abutment for PPC beams



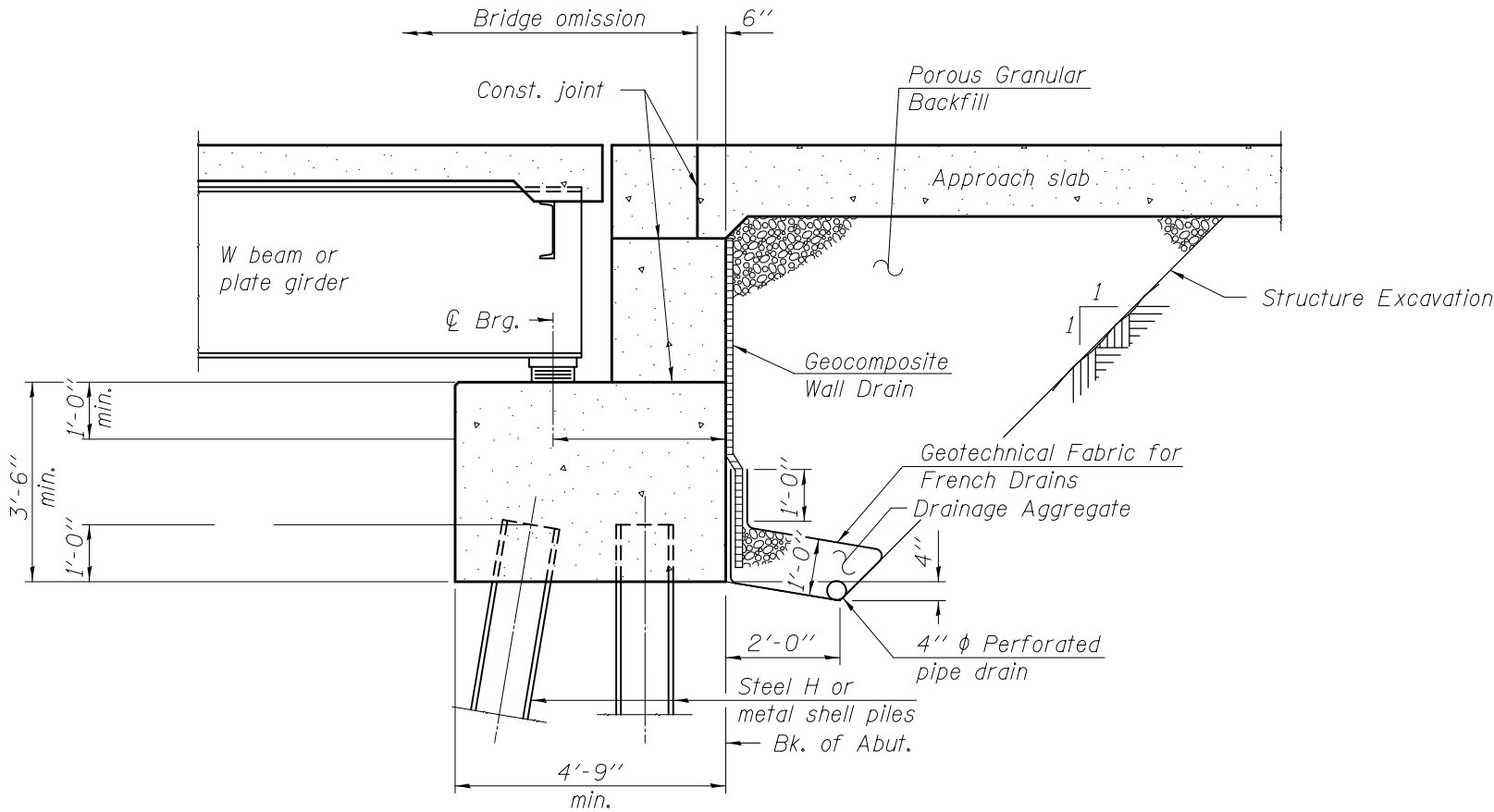
SECTION THRU PILE SUPPORTED

STUB ABUTMENT

(Horiz. dim. @ Rt. L's)

Cell Name: P00043

Descrip: Section thru pile supported stub abutment for steel beams or girders



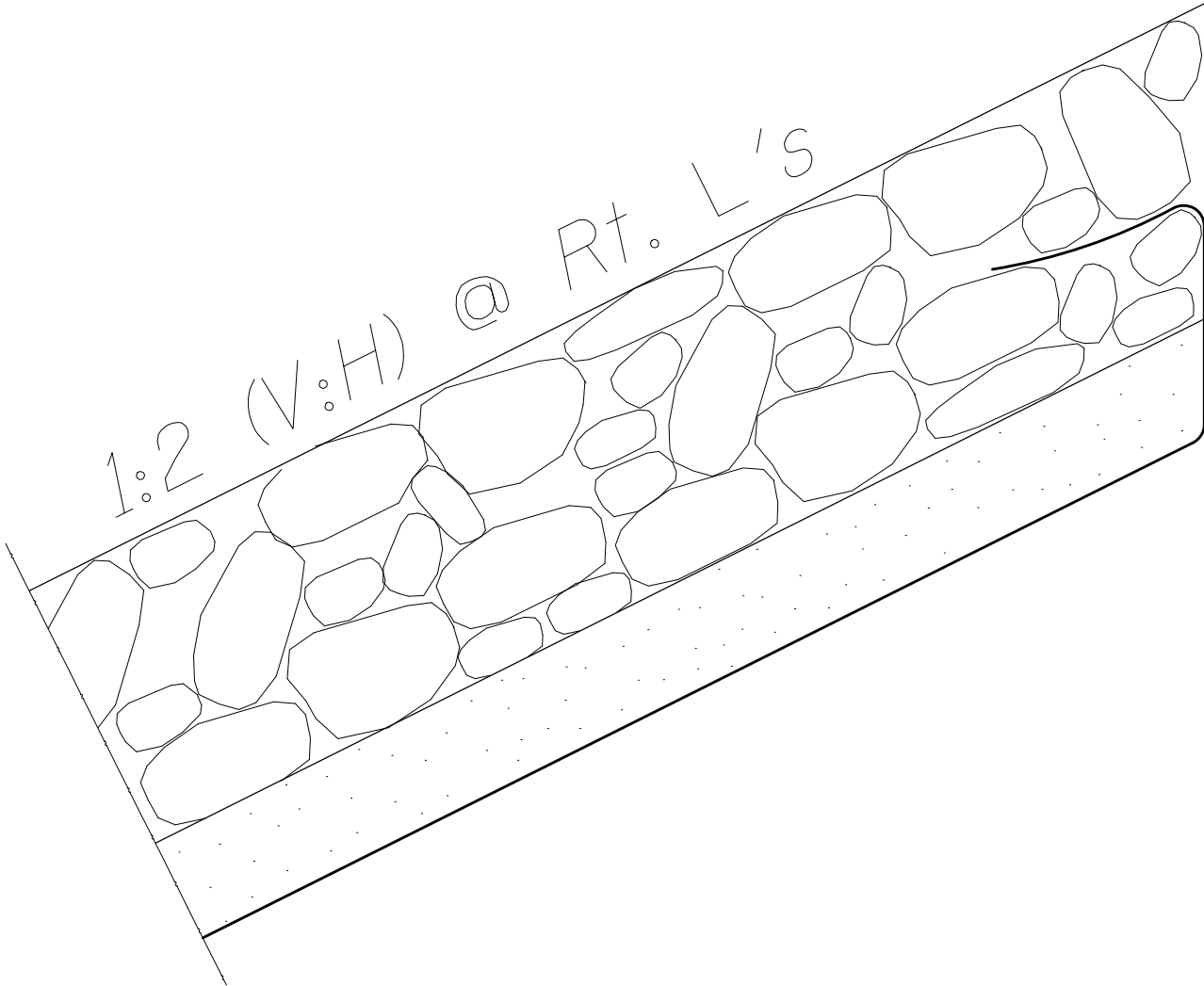
SECTION THRU PILE SUPPORTED

STUB ABUTMENT

(Horiz. dim. @ Rt. L's)

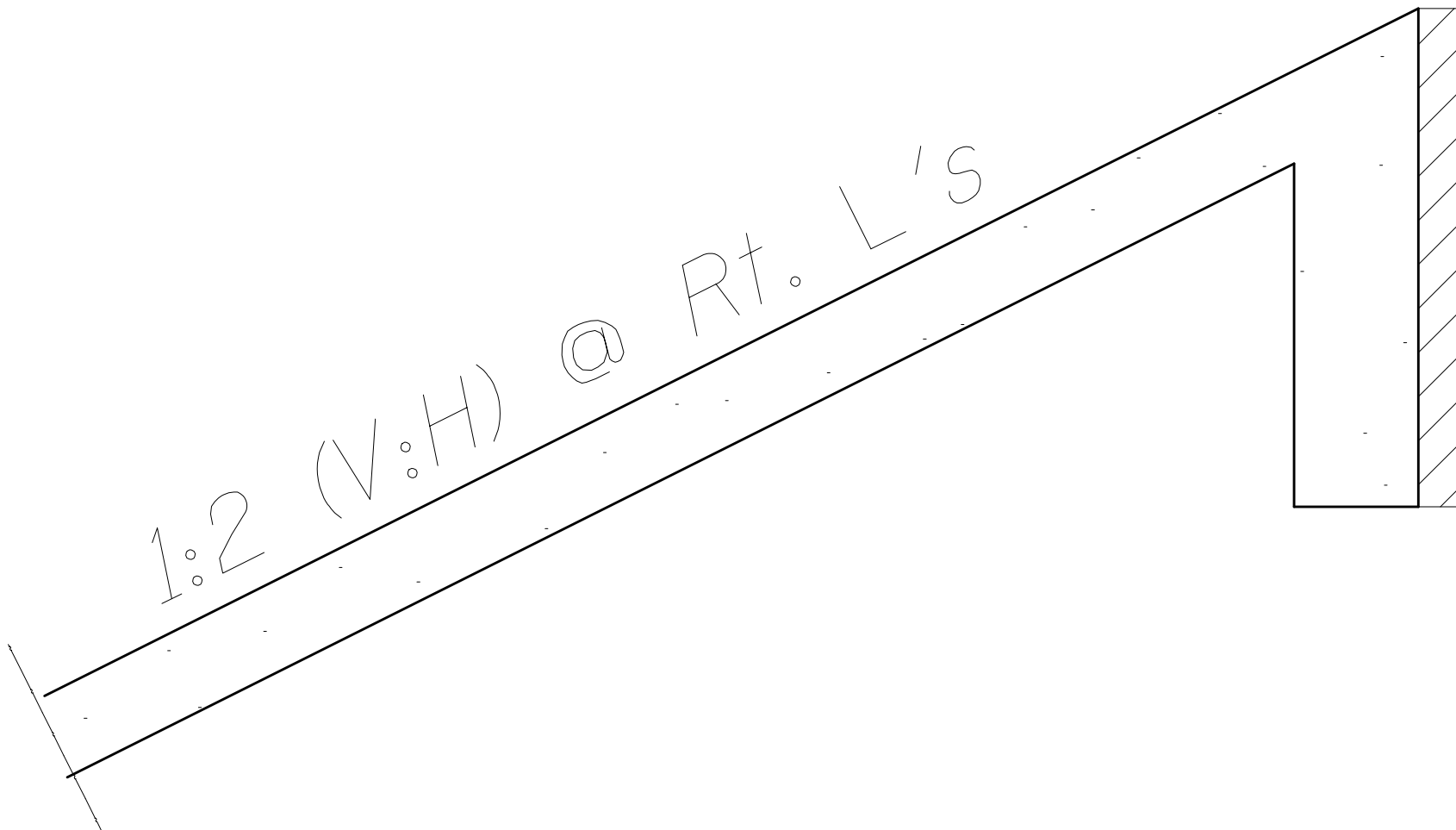
Cell Name: P00046

Descrip: Riprap for section thru abutment



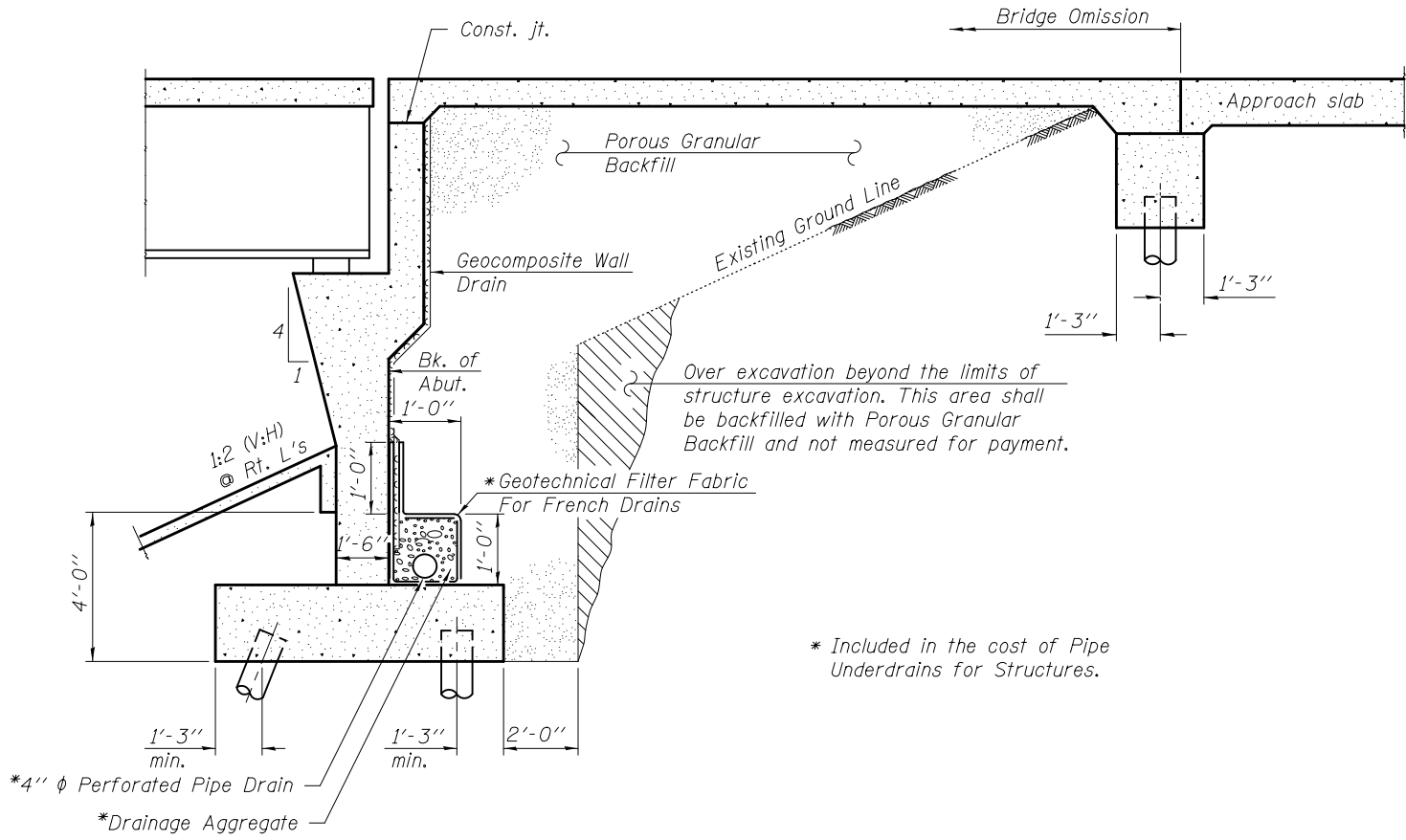
Cell Name: P00047

Descrip: Slopewall for section thru abutments



Cell Name: P00048

Descrip: Section Thru Filled Vaulted Abutment

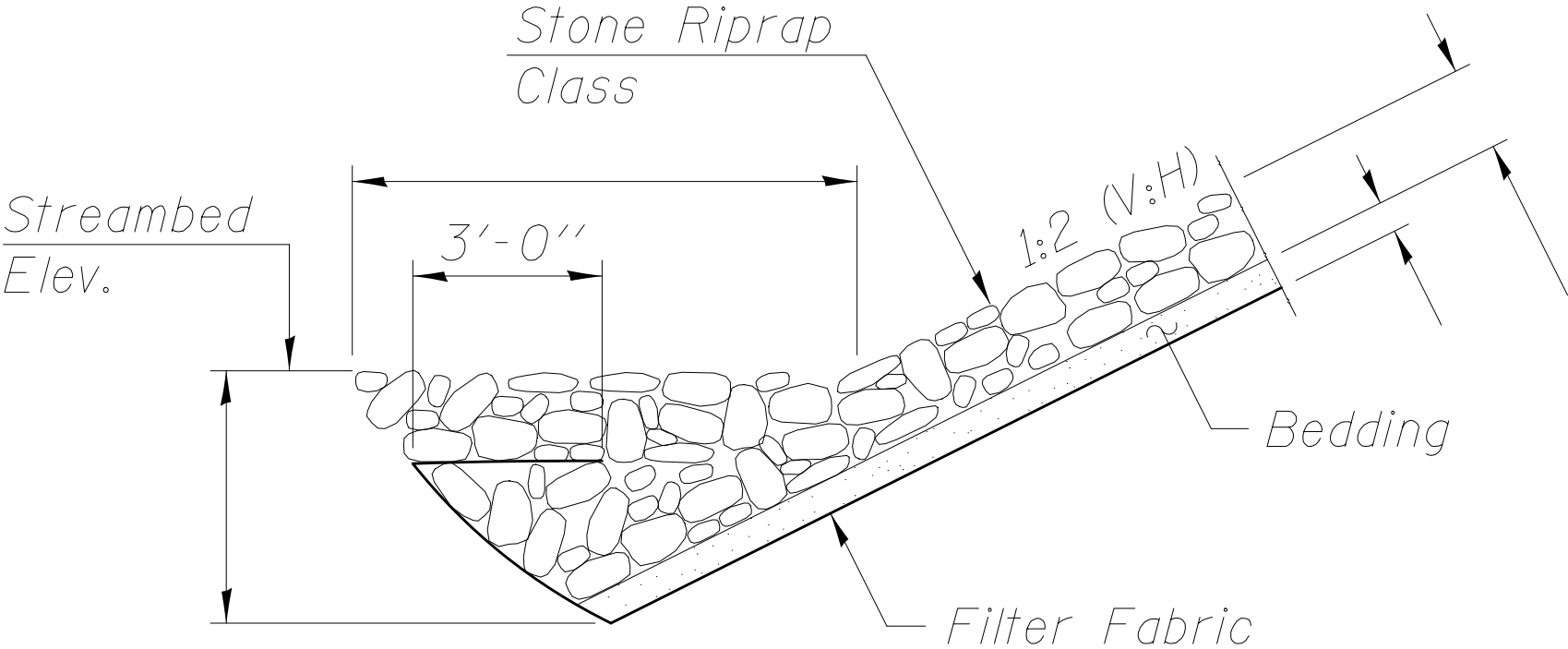


SECTION THRU FILLED VAULTED ABUTMENT

(Horiz. dim. @ Rt. L's)

Cell Name: P00050

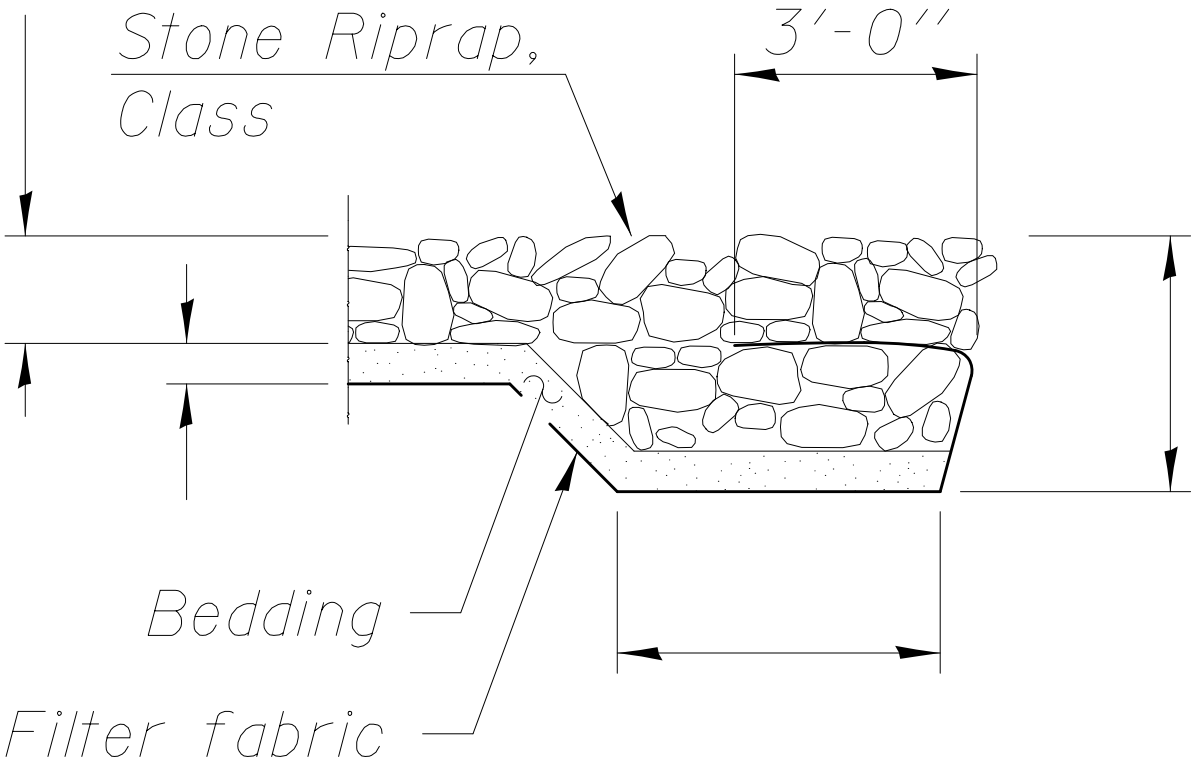
Descrip: Toe stone riprap treatment for stream crossings



SECTION A-A

Cell Name: P00051

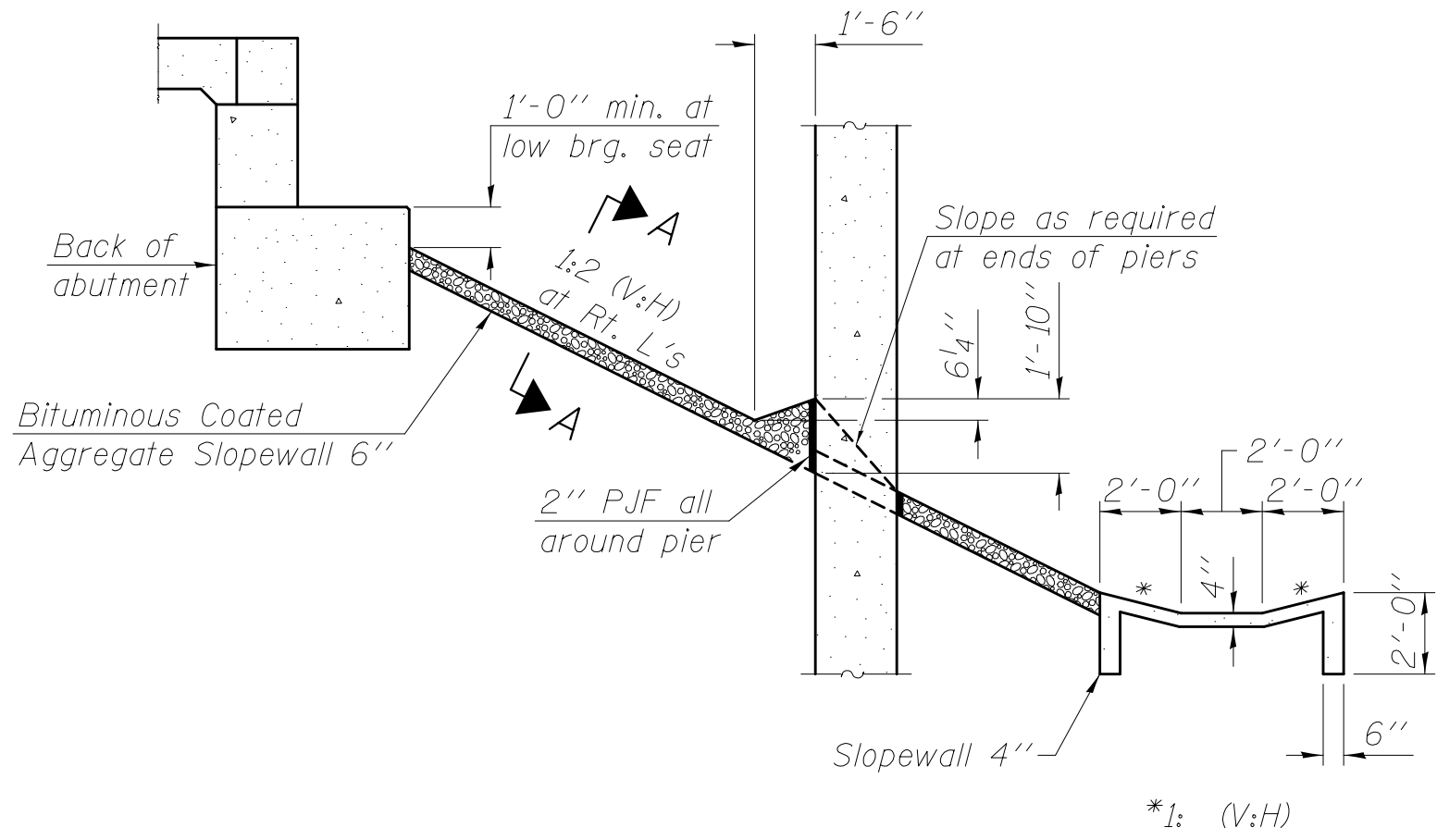
Descrip: Flank stone riprap treatment for stream crossings



SECTION B-B

Cell Name: P00052

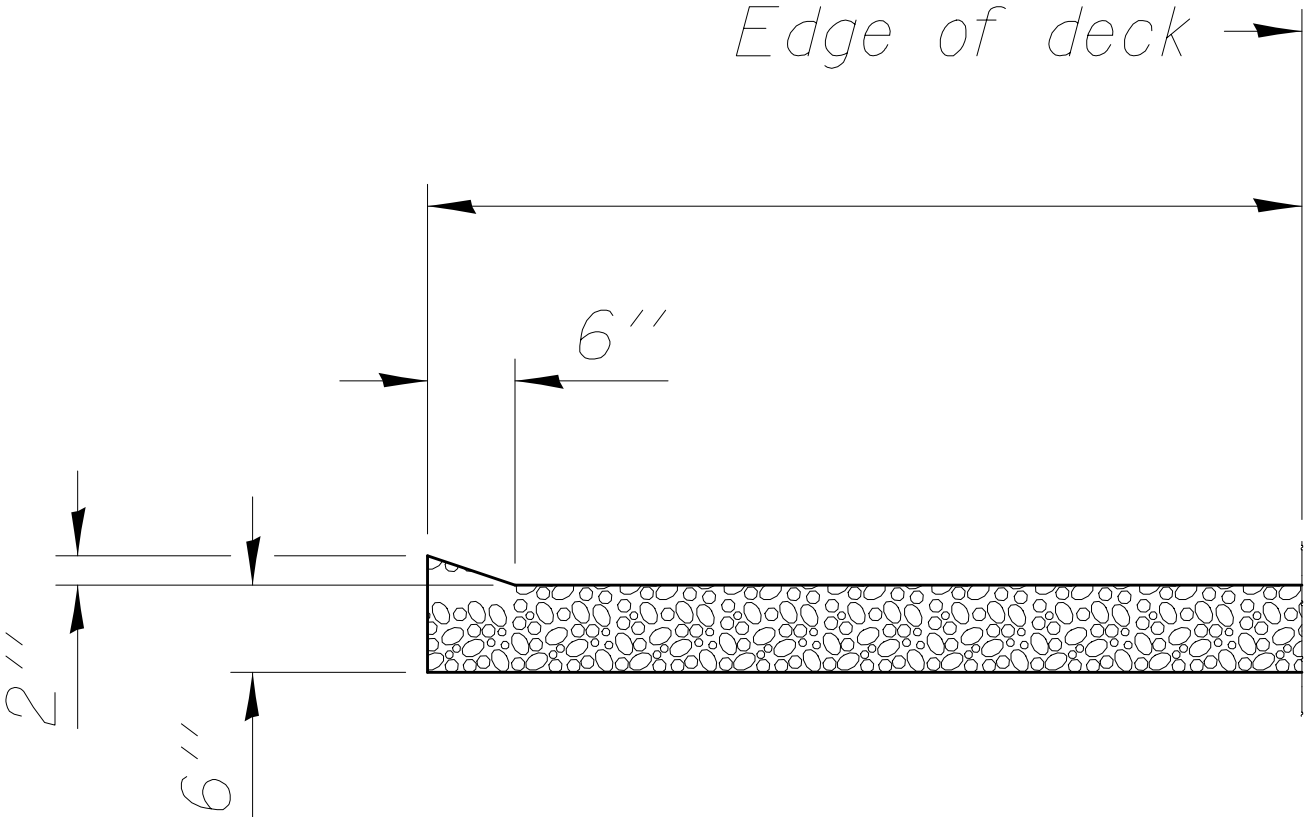
Descrip: Section thru bituminous coated aggregate slopewall



SECTION THRU BITUMINOUS
COATED AGGREGATE SLOPEWALL

Cell Name: P00053

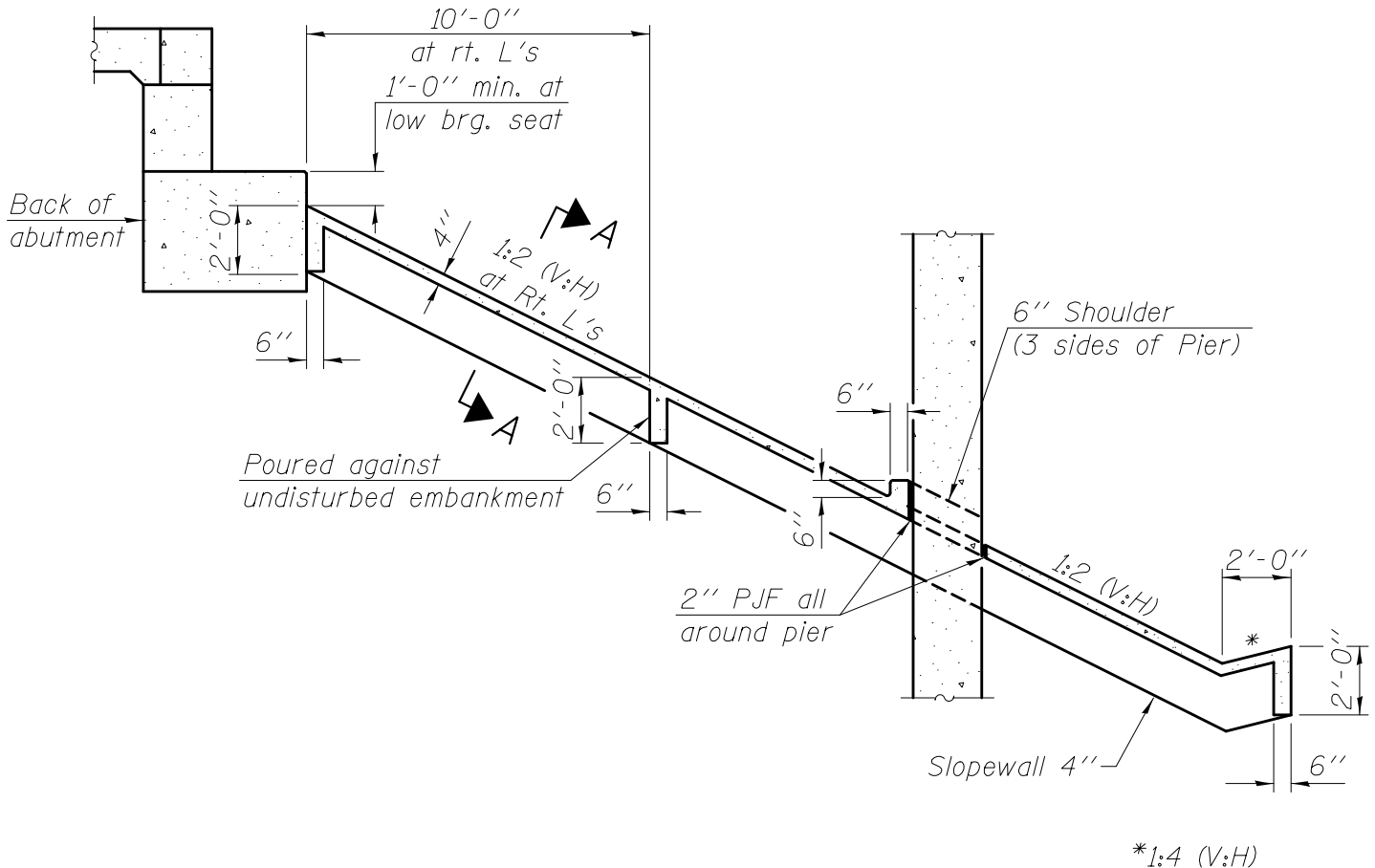
Descrip: Section at edge of bituminous coated aggregate slopewall



SECTION A - A

Cell Name: P00054

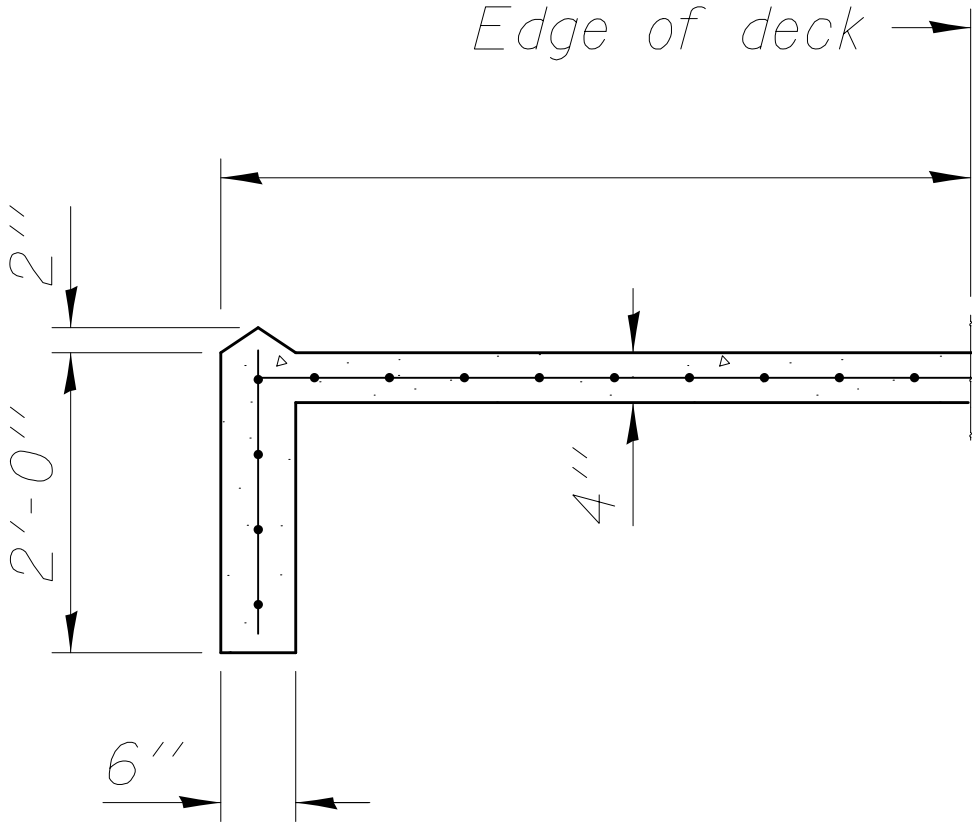
Descrip: Section thru concrete slopewall (from stub abutment)



SECTION THRU
CONCRETE SLOPEWALL

Cell Name: P00056

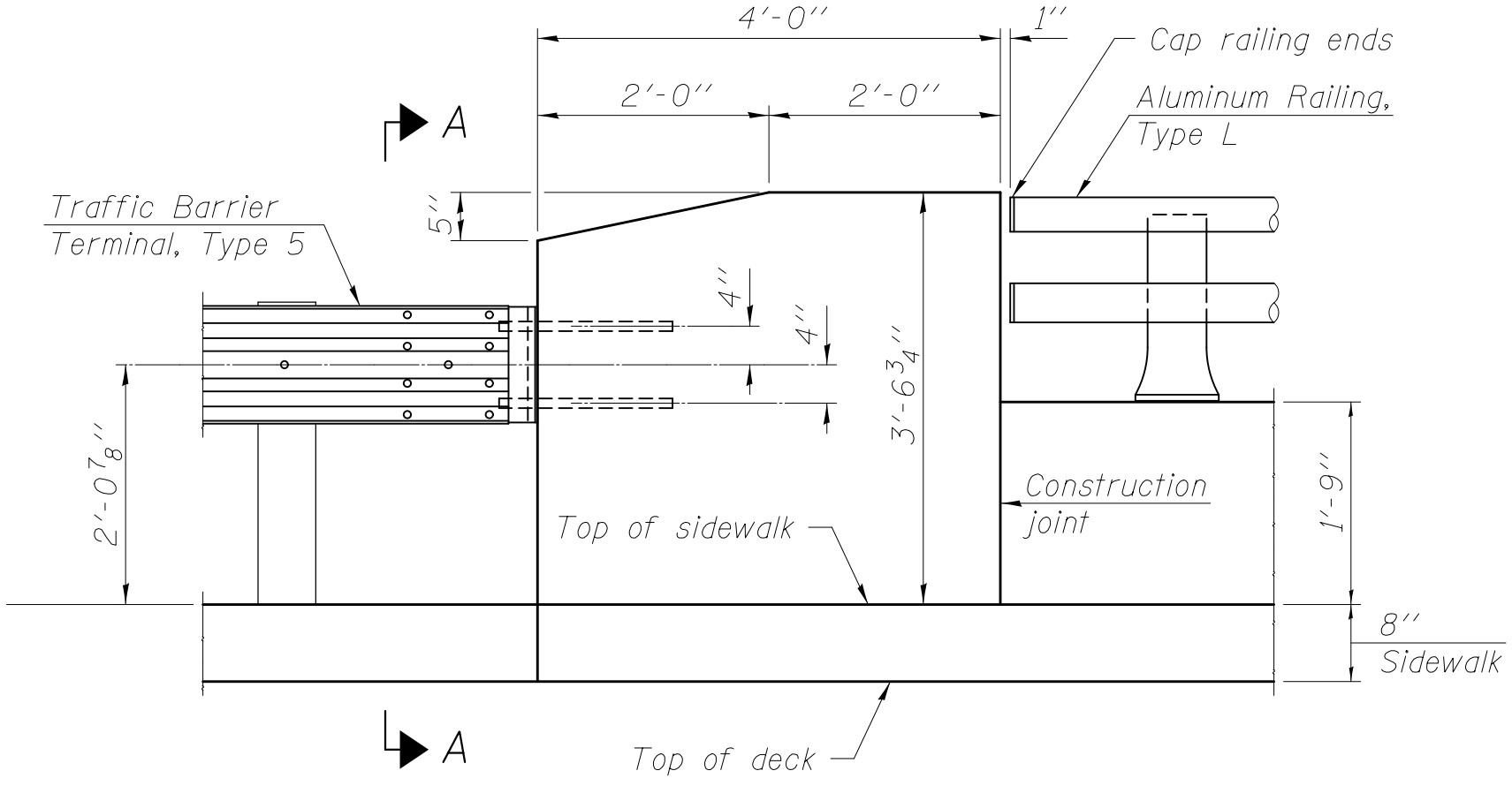
Descrip: Section at edge of concrete slopewall



SECTION A-A

Cell Name: P00060

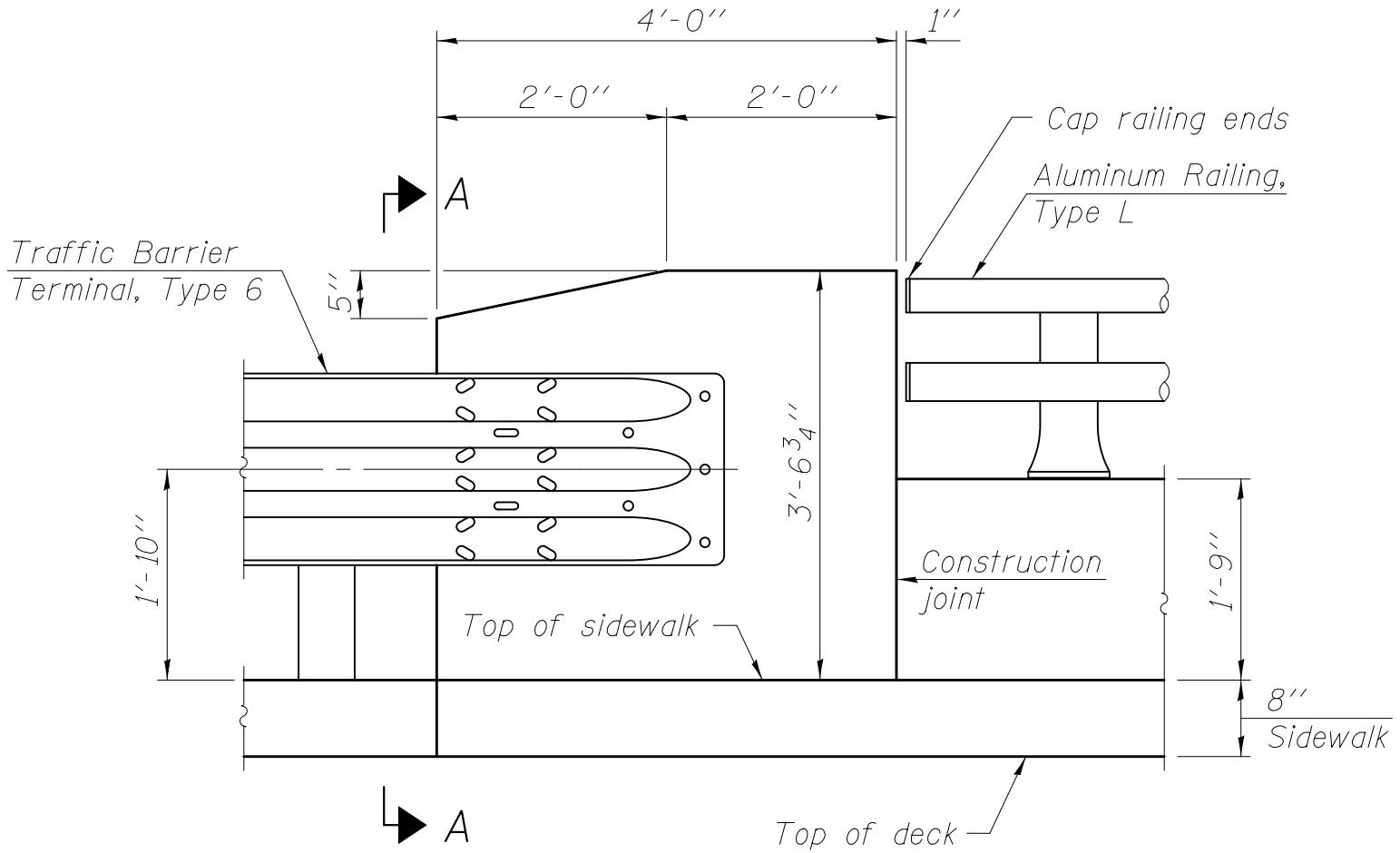
Descrip: Railing end treatment elevation for type 5 terminal and aluminum railing



ELEVATION

Cell Name: P00061

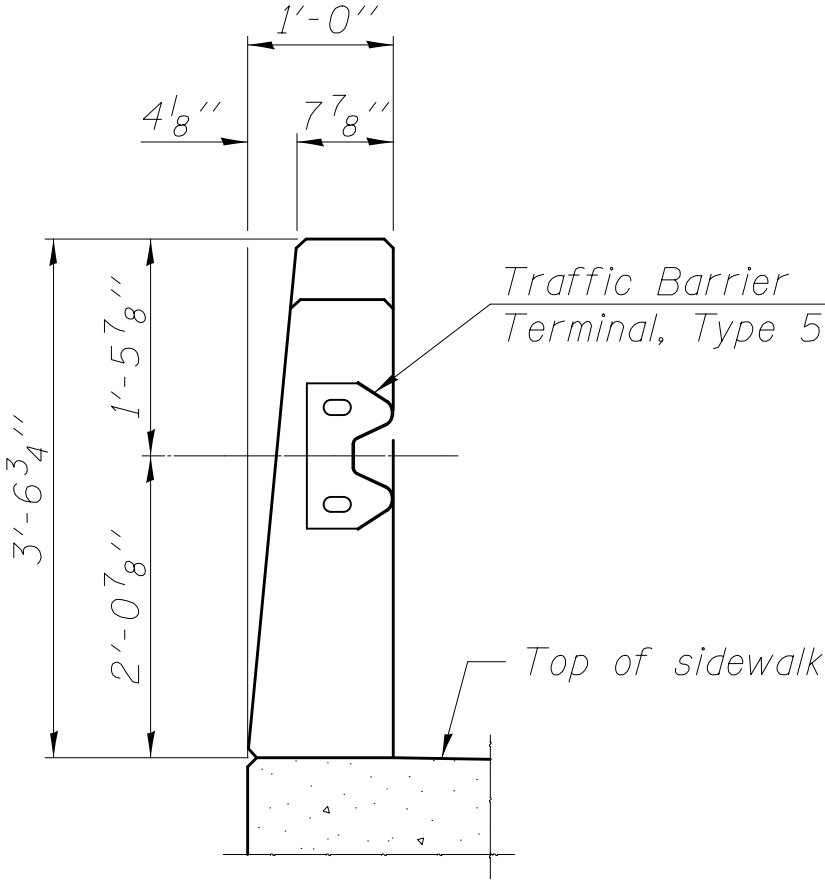
Descrip: Railing end treatment elevation for type 6 terminal and aluminum railing



ELEVATION

Cell Name: P00062

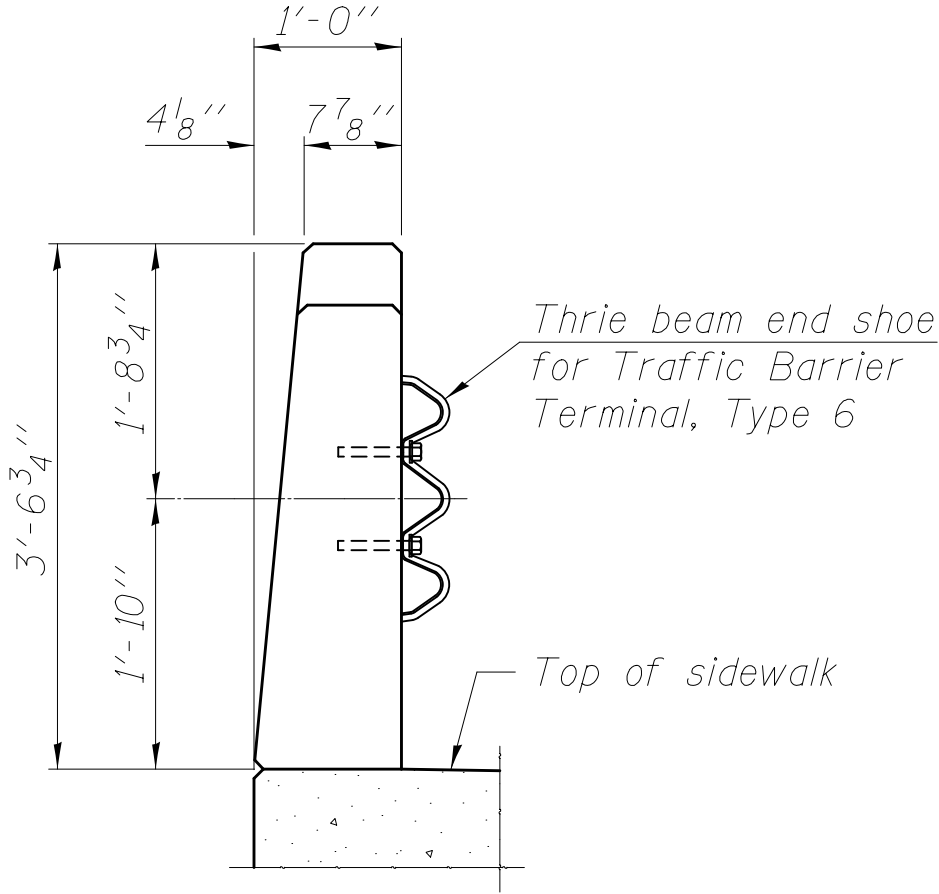
Descrip: Railing end treatment section for type 5 terminal and aluminum railing



SECTION A-A

Cell Name: P00063

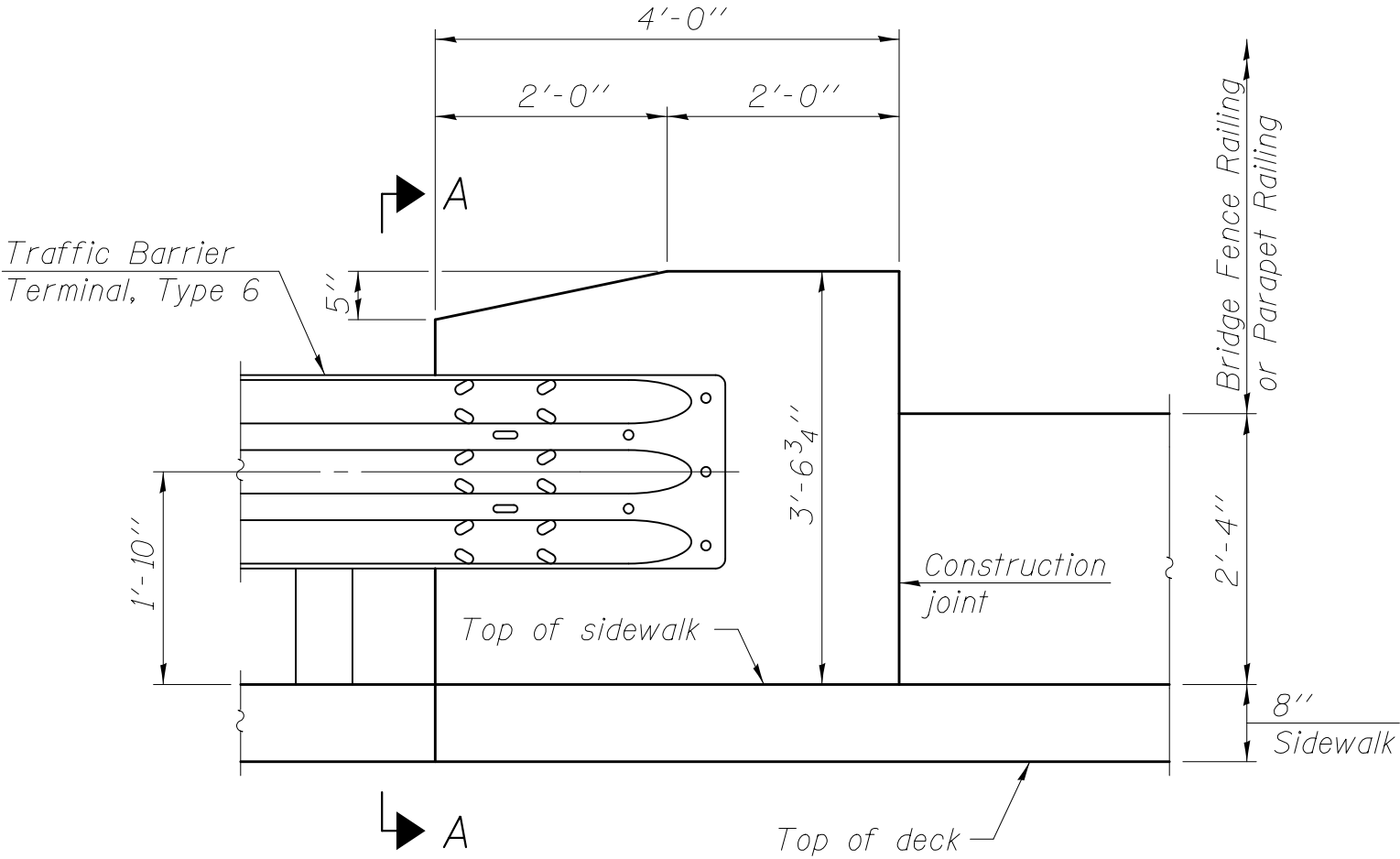
Descrip: Railing end treatment section for type 6 terminal



SECTION A-A

Cell Name: P00064

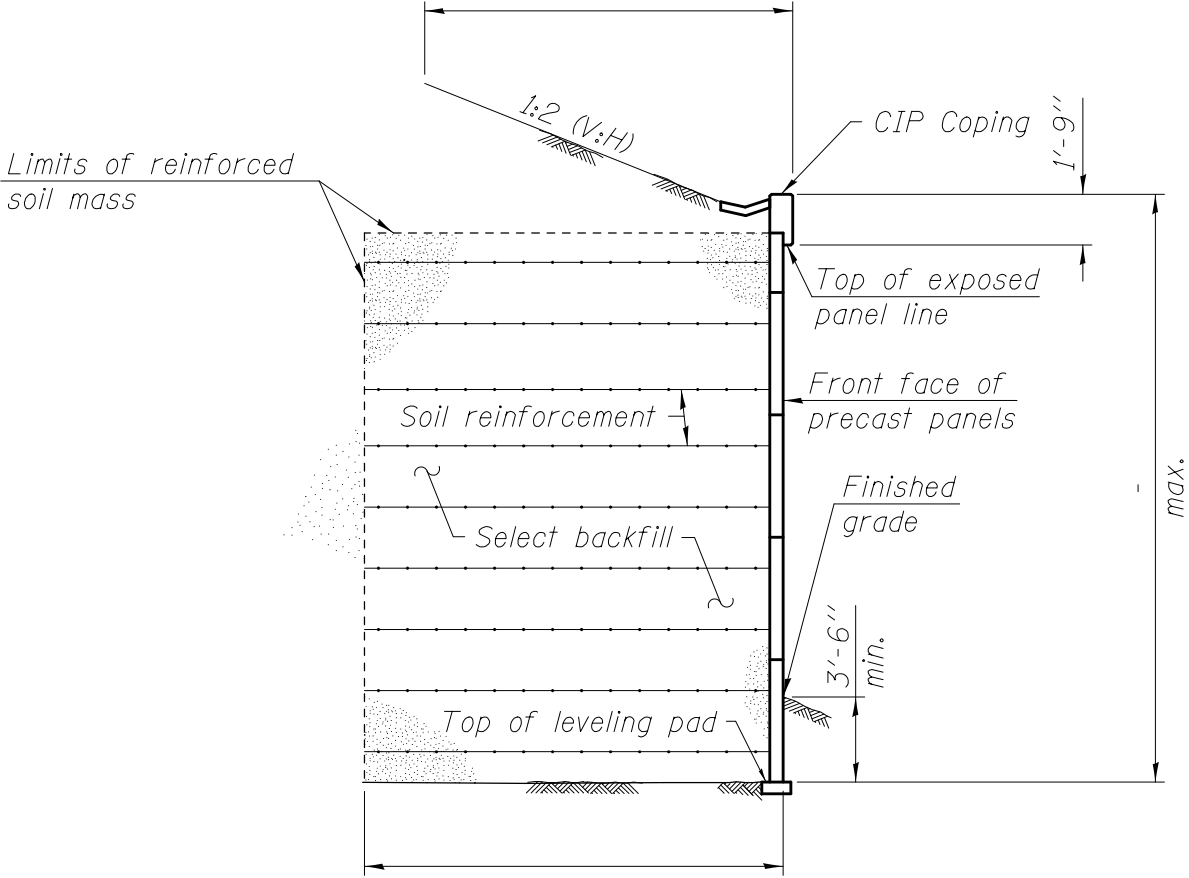
Descrip: Railing end treatment elevation for type 6 terminal and bridge fence or parapet railing



ELEVATION

Cell Name: P00070

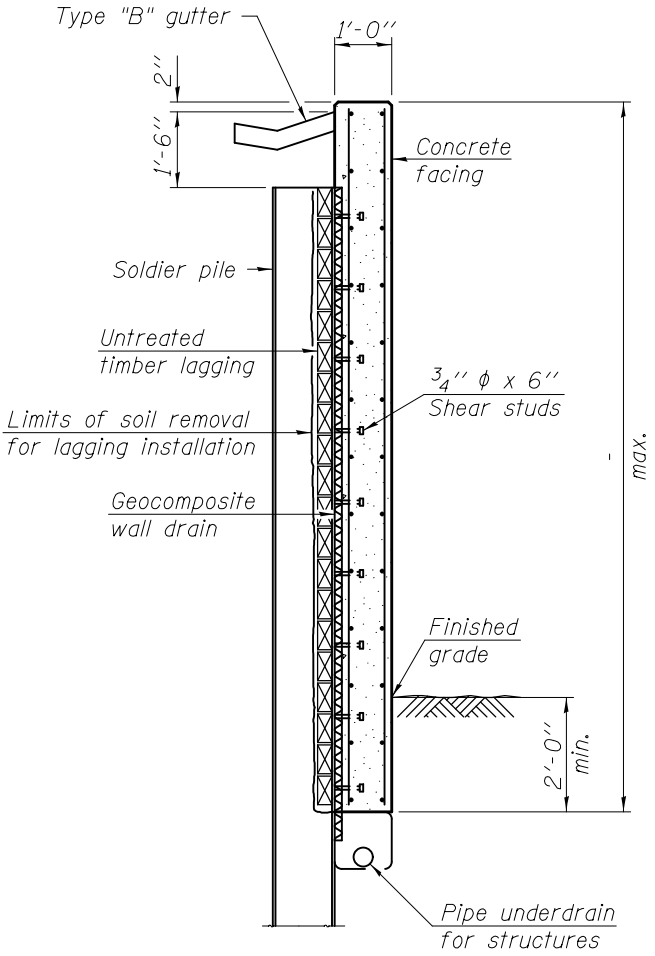
Descrip: MSE wall with CIP coping section



SECTION THRU
MSE WALL

Cell Name: P00071

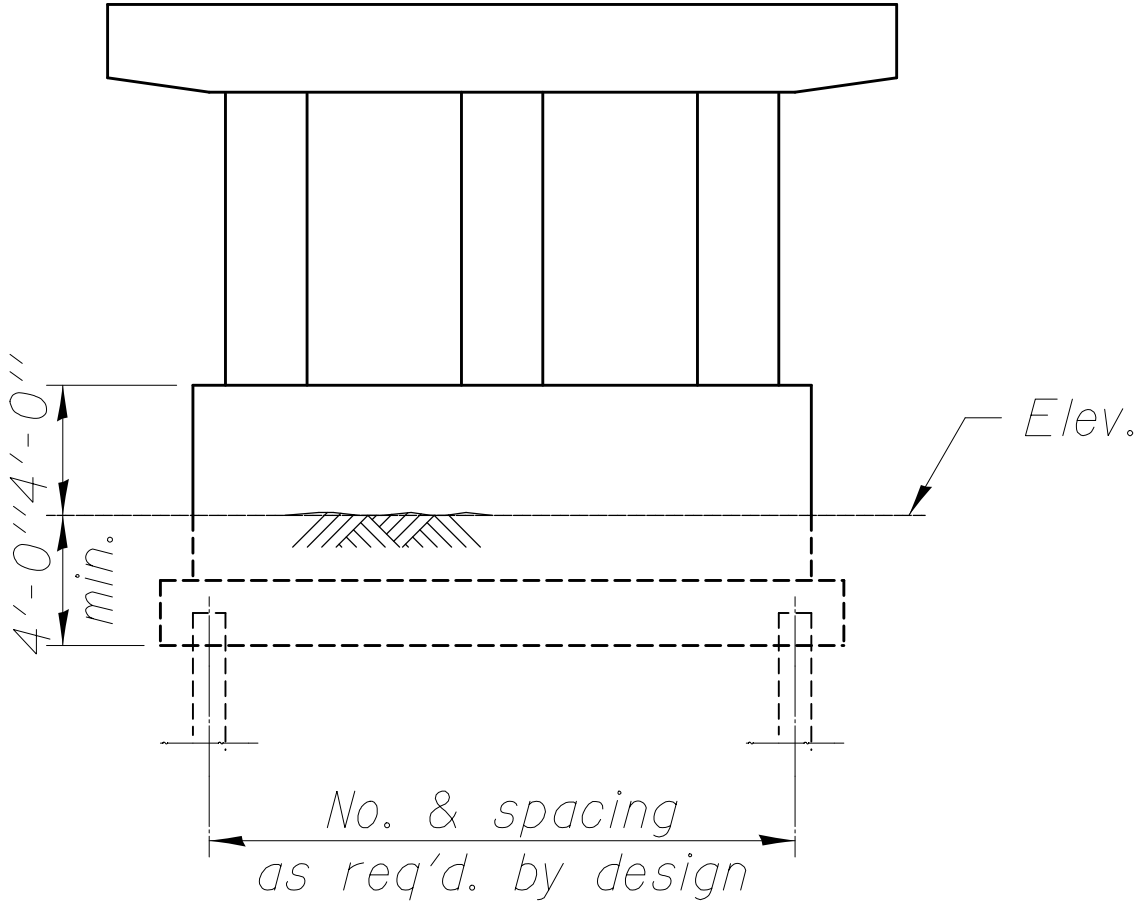
Descrip: Soldier pile wall with concrete facing section



SECTION THRU
SOLDIER PILE WALL

Cell Name: P00077

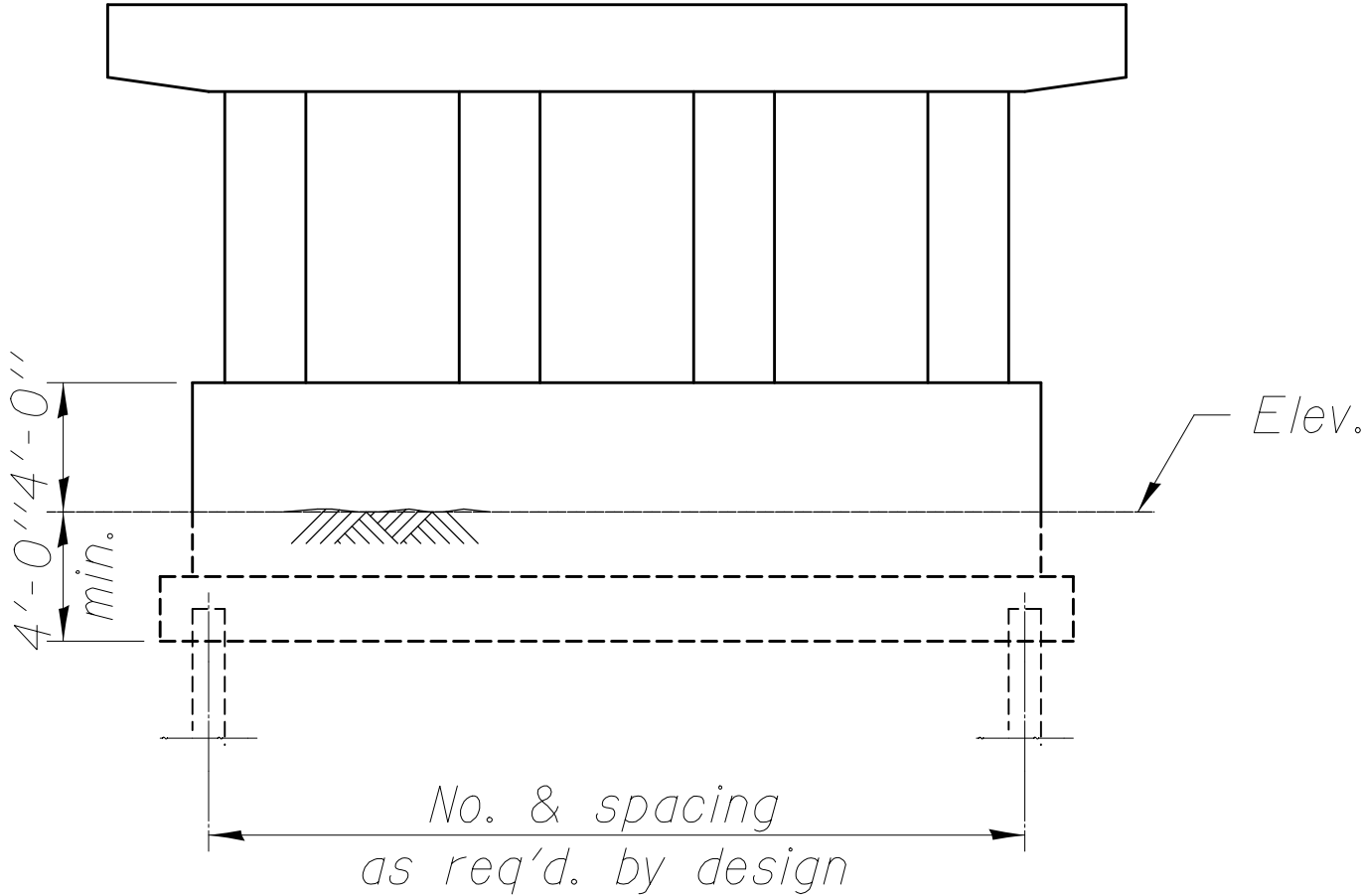
Descrip: Multiple round column grade separation pier sketch (3)



PIER SKETCH

Cell Name: P00078

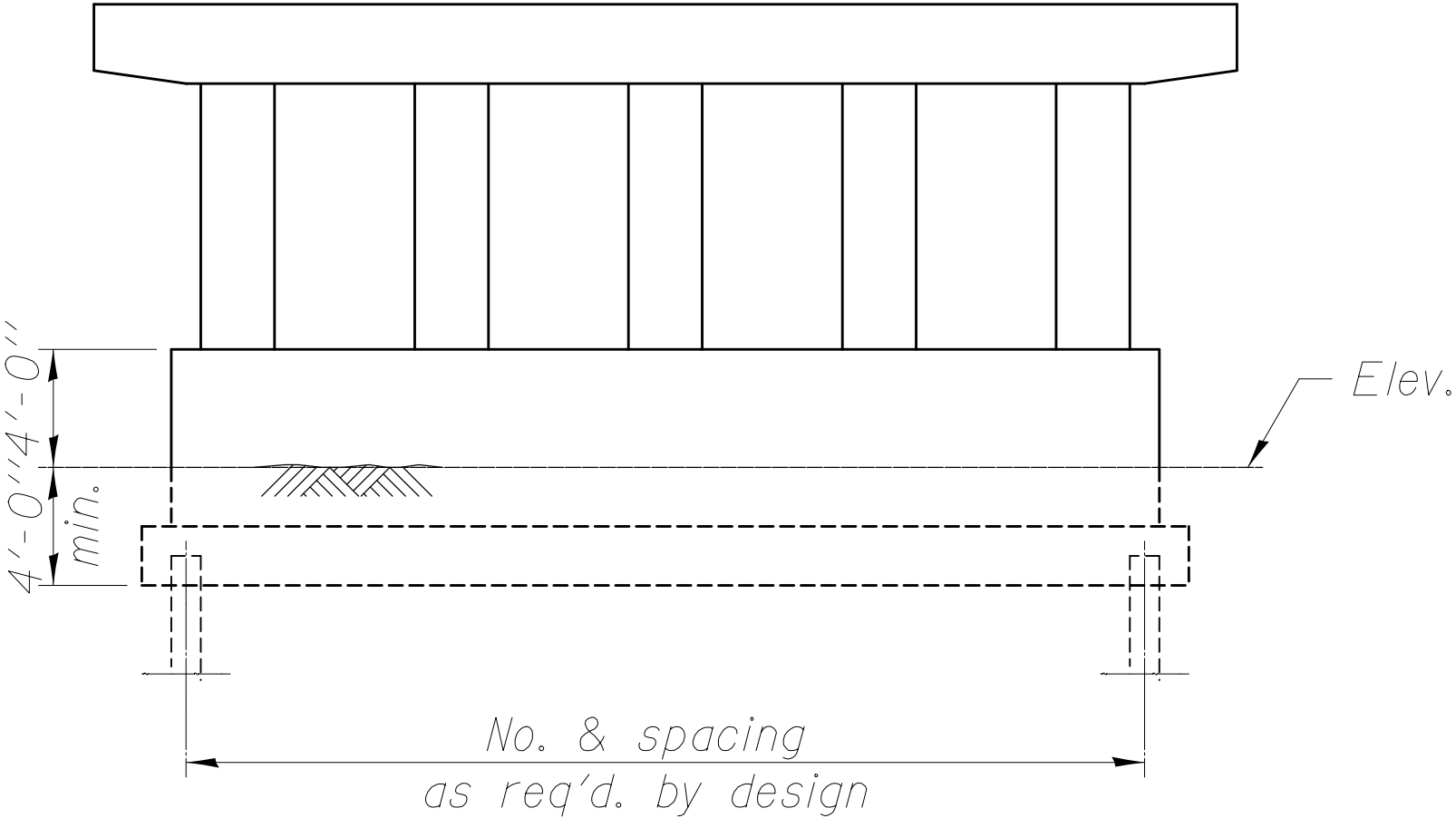
Descrip: Multiple round column grade separation pier sketch (4)



PIER SKETCH

Cell Name: P00079

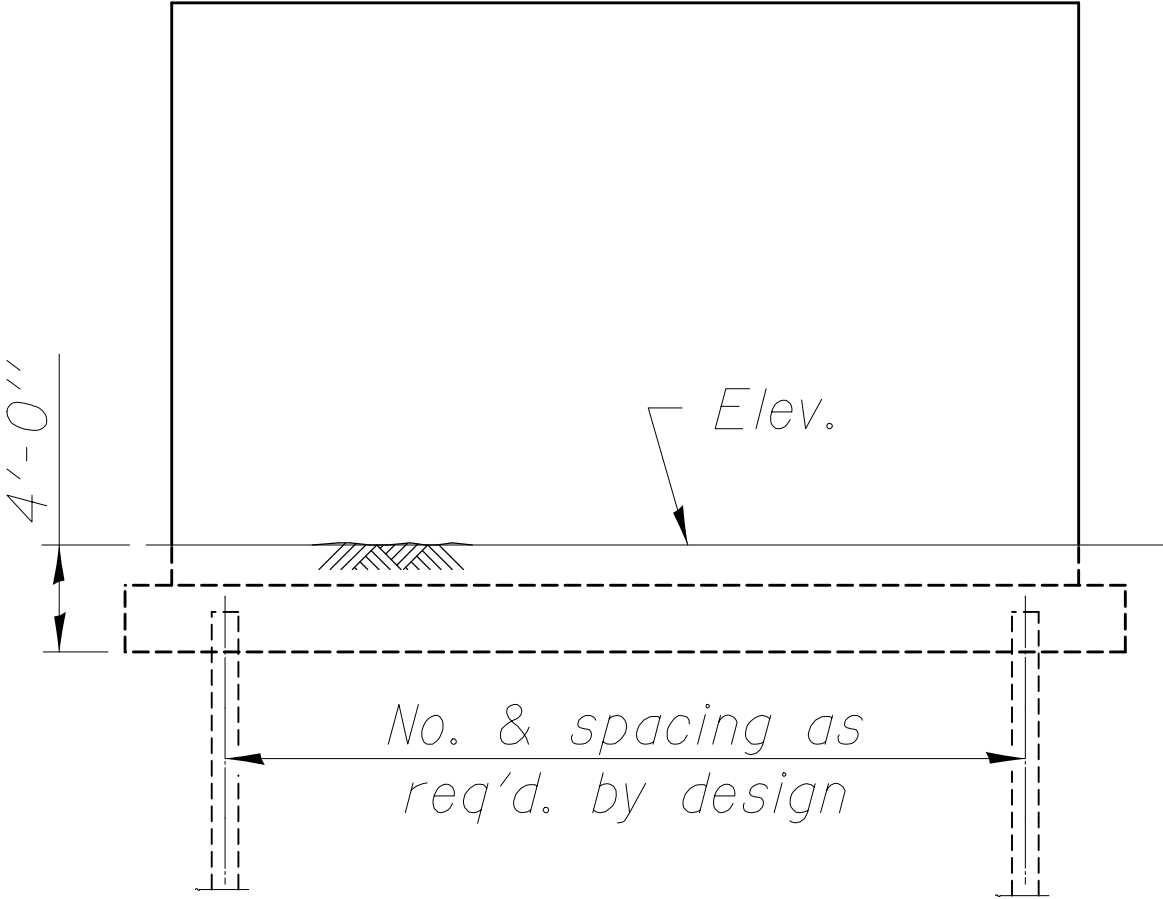
Descrip: Multiple round column grade separation pier sketch (5)



PIER SKETCH

Cell Name: P00080

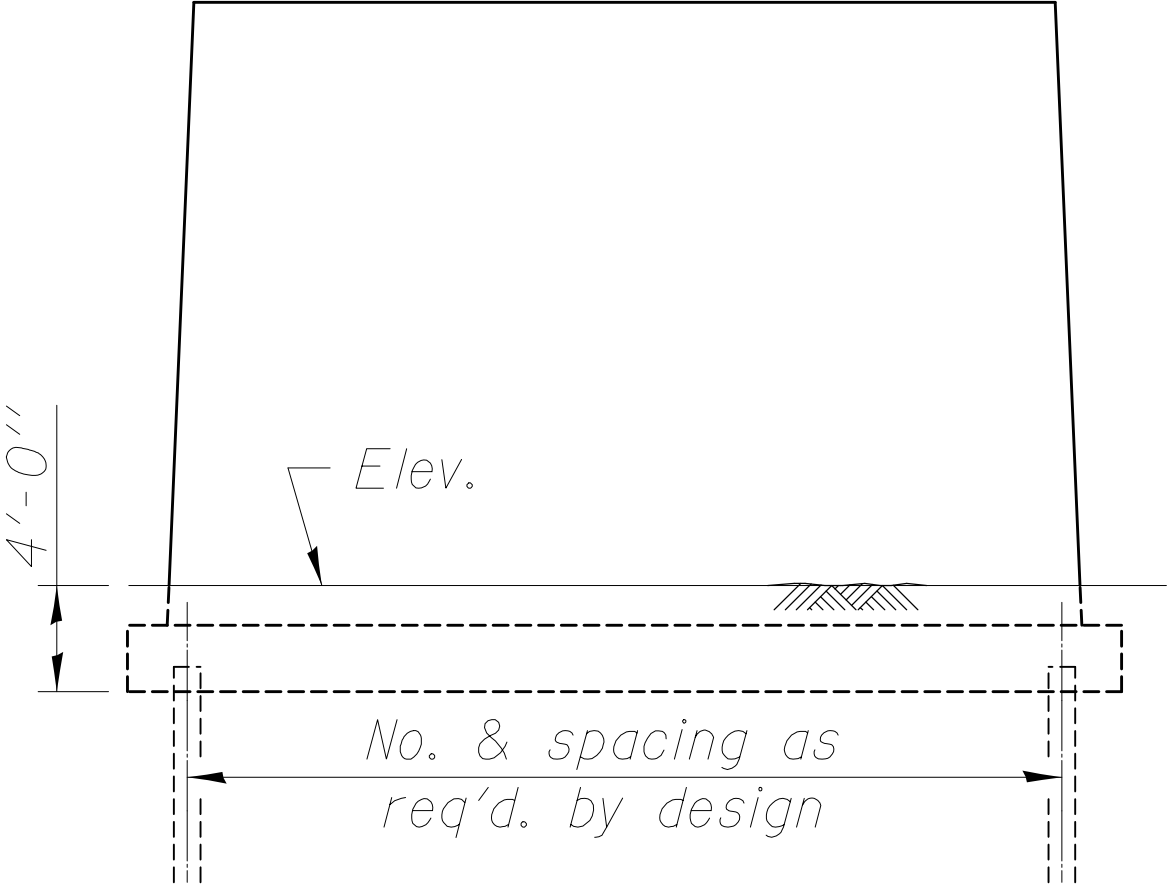
Descrip: Solid, spread footing pier sketch



PIER SKETCH

Cell Name: P00081

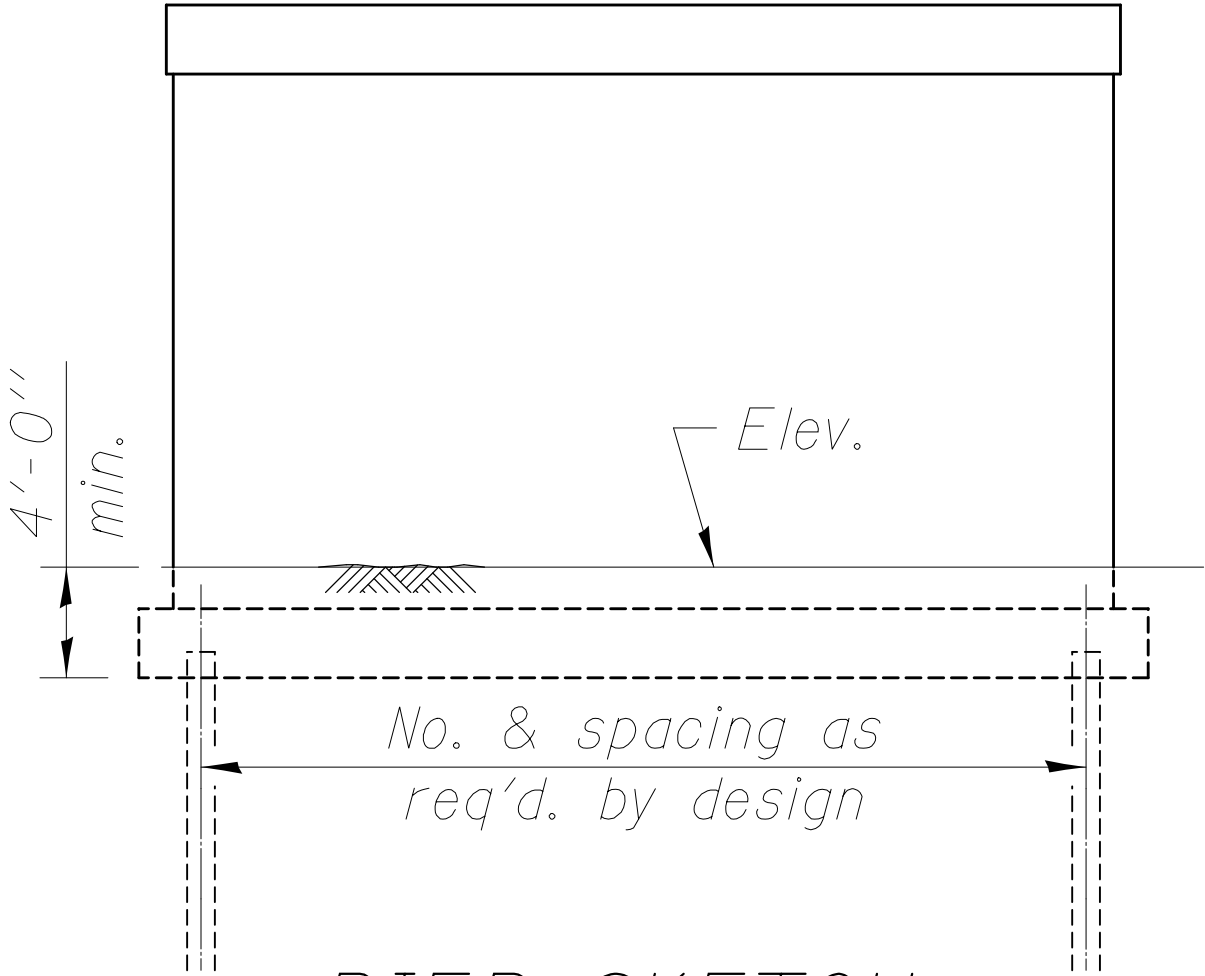
Descrip: Solid, battered, spread footing pier sketch



PIER SKETCH

Cell Name: P00082

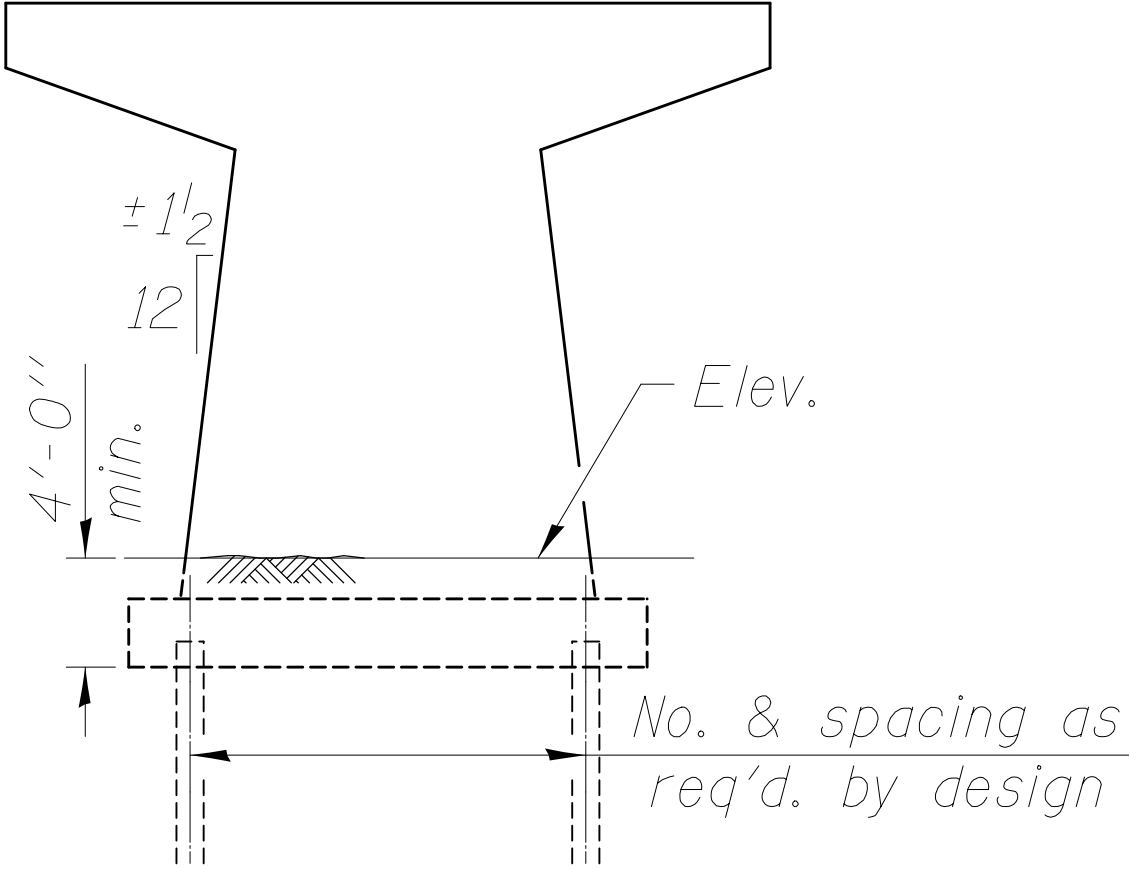
Descrip: Solid, with cap and spread footing pier sketch



PIER SKETCH

Cell Name: P00083

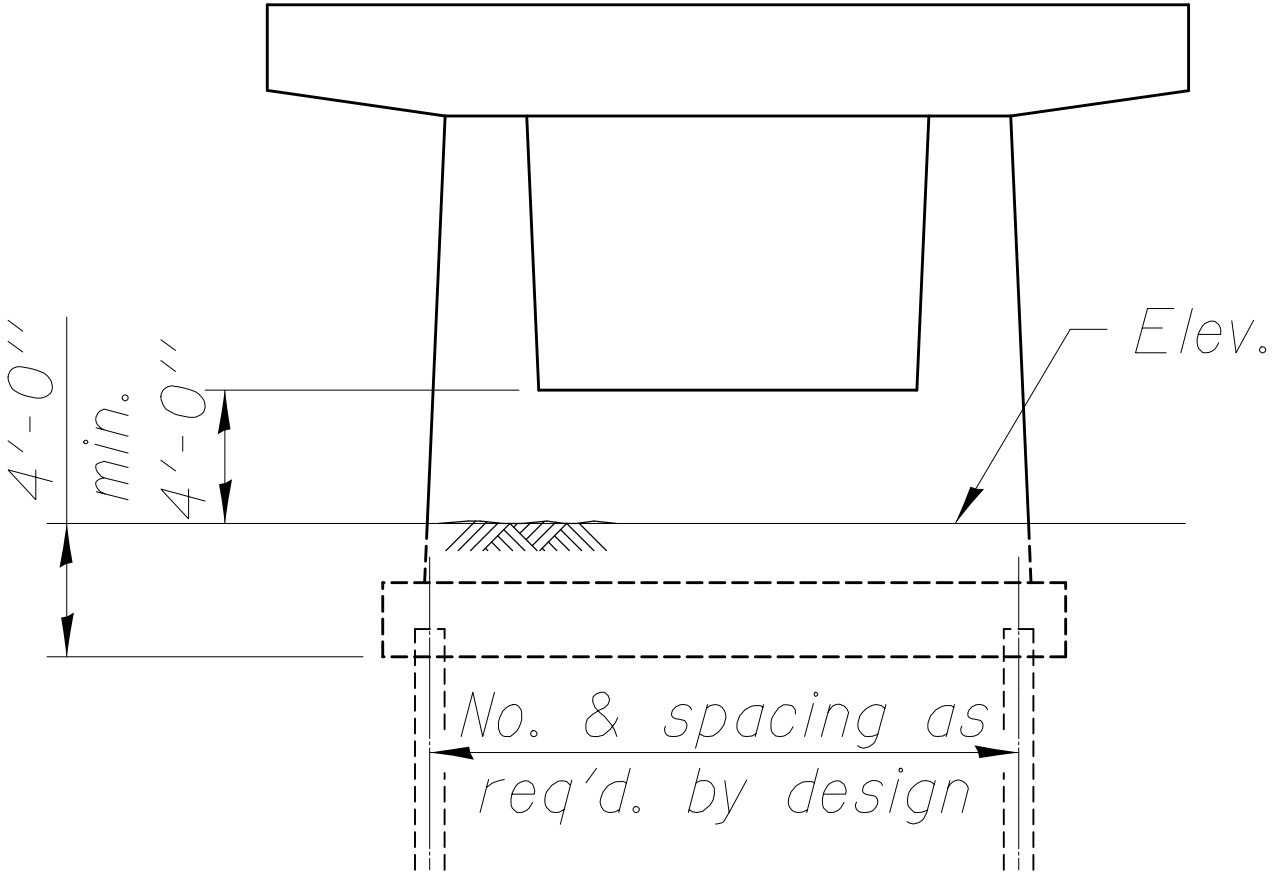
Descrip: Single hammerhead pier sketch



PIER SKETCH

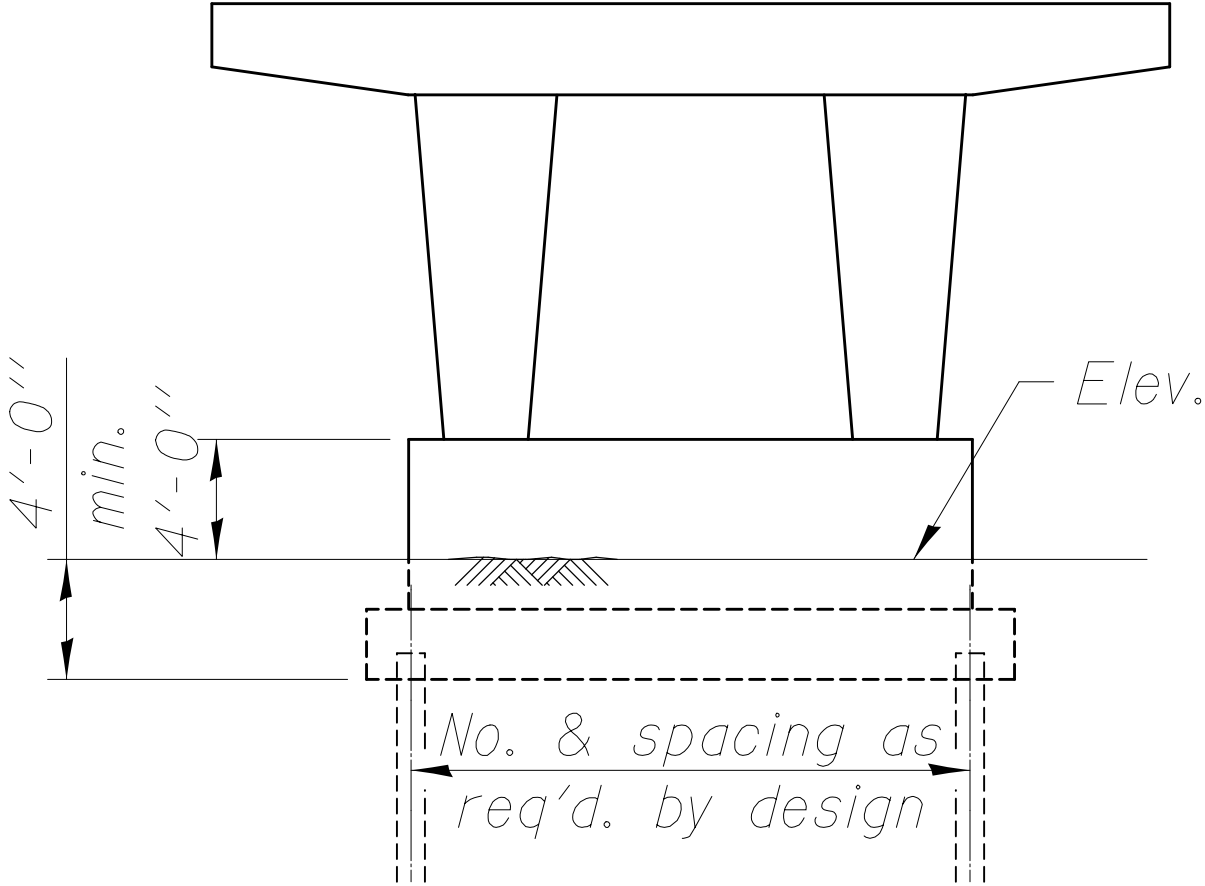
Cell Name: P00084

Descrip: Double hammerhead pier sketch



PIER SKETCH

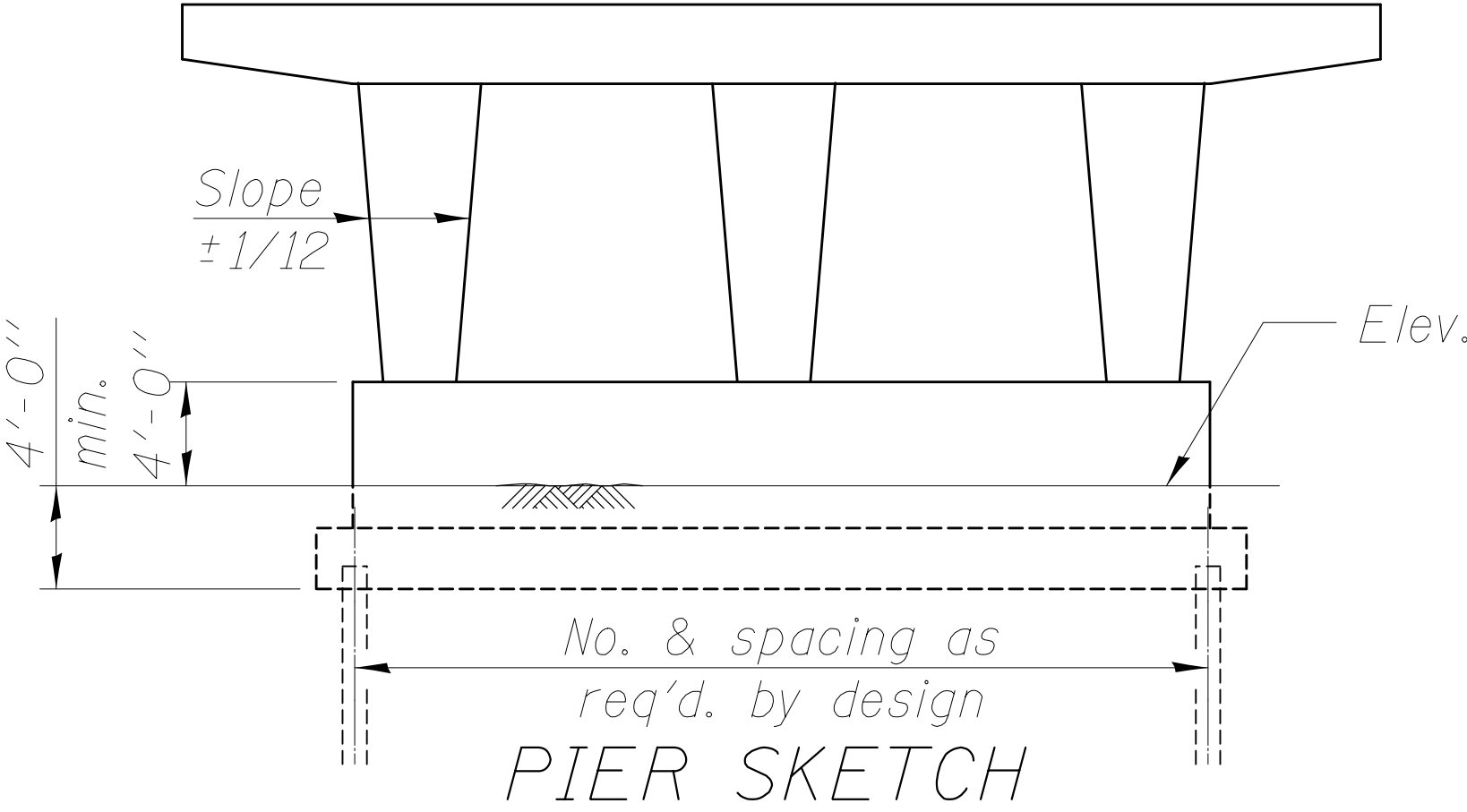
Cell Name: P00085
Descrip: 2 column pier sketch



PIER SKETCH

Cell Name: P00086

Descrip: 3 column pier sketch

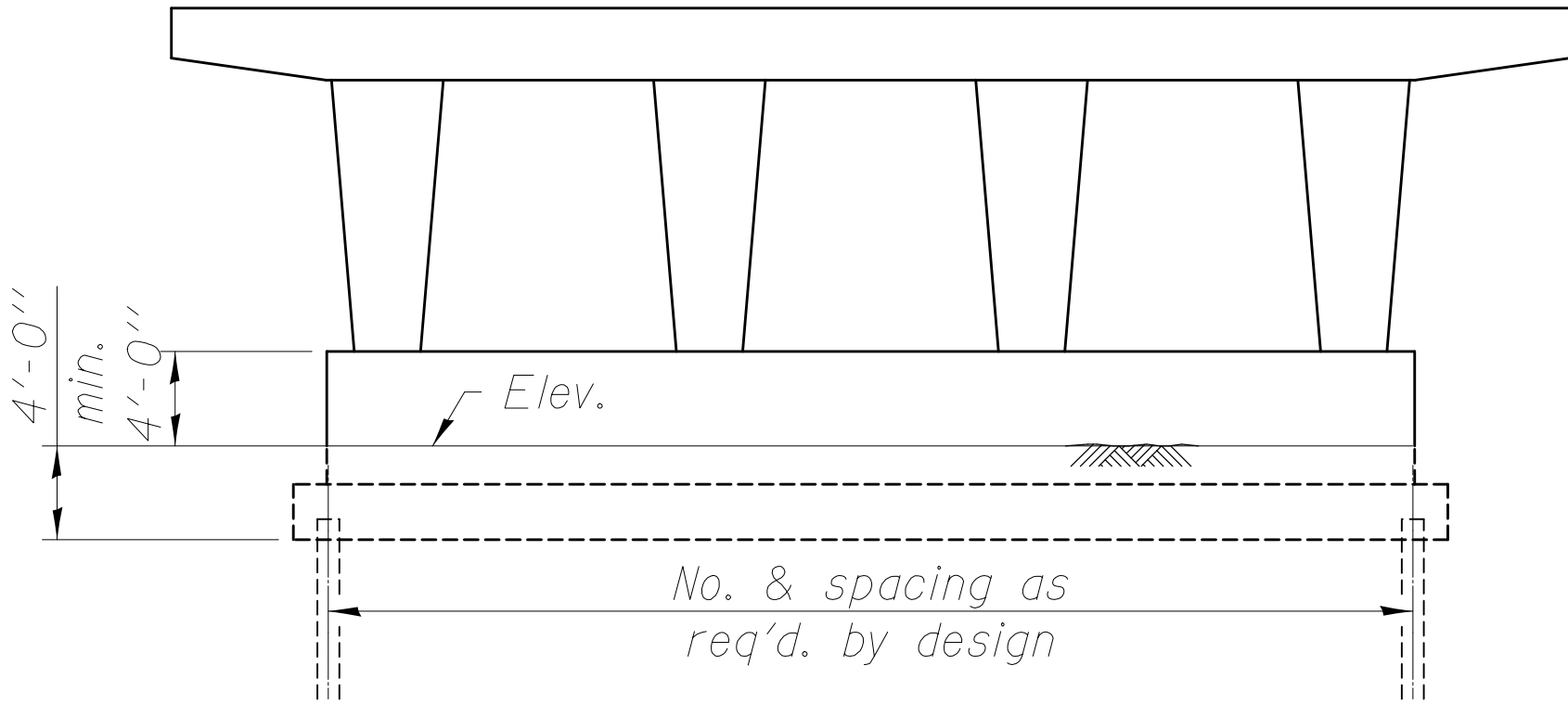


Slope
 $\pm 1/12$

Elev.

No. & spacing as
req'd. by design
PIER SKETCH

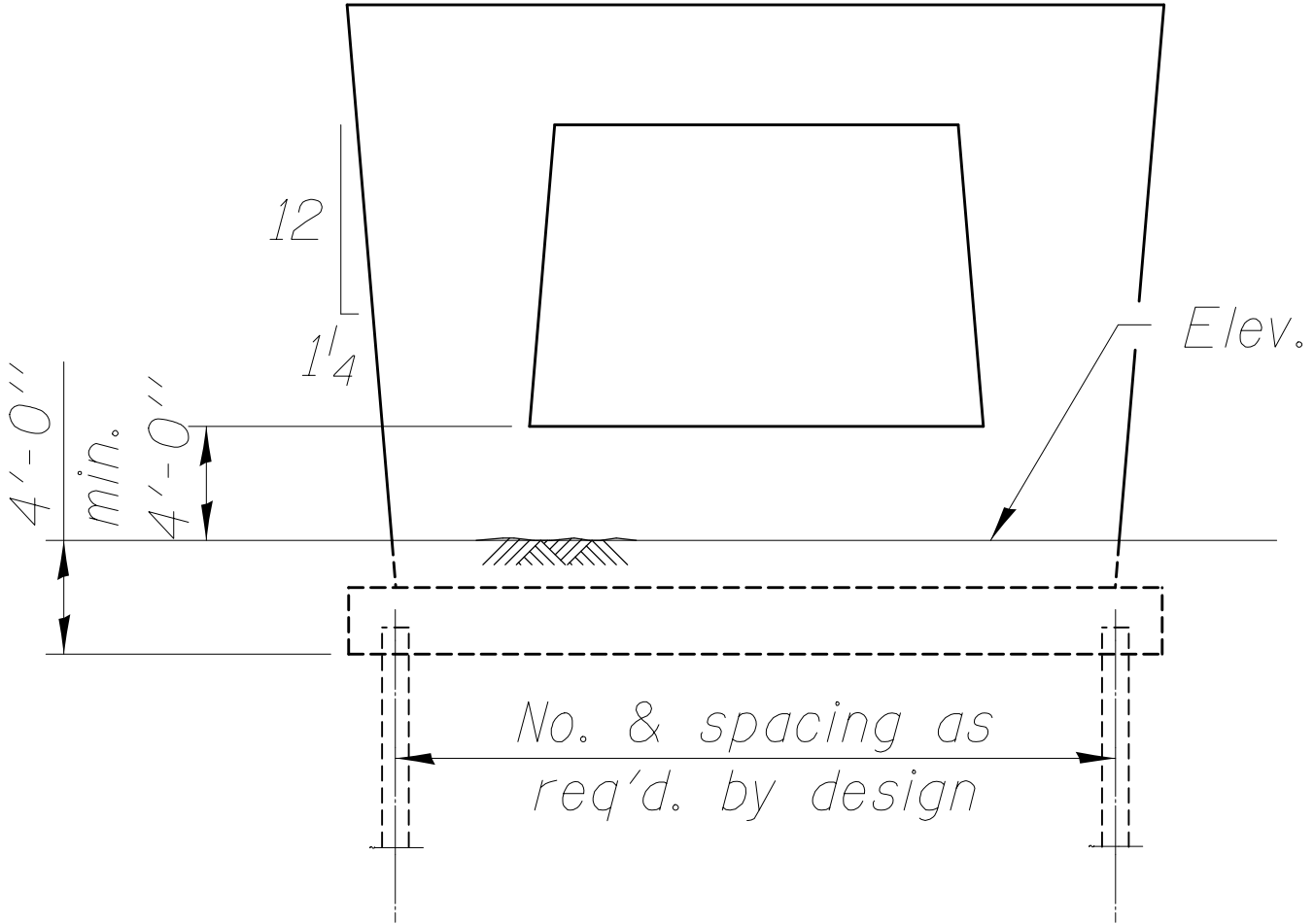
Cell Name: P00087
Descrip: 4 column pier sketch



PIER SKETCH

Cell Name: P00088

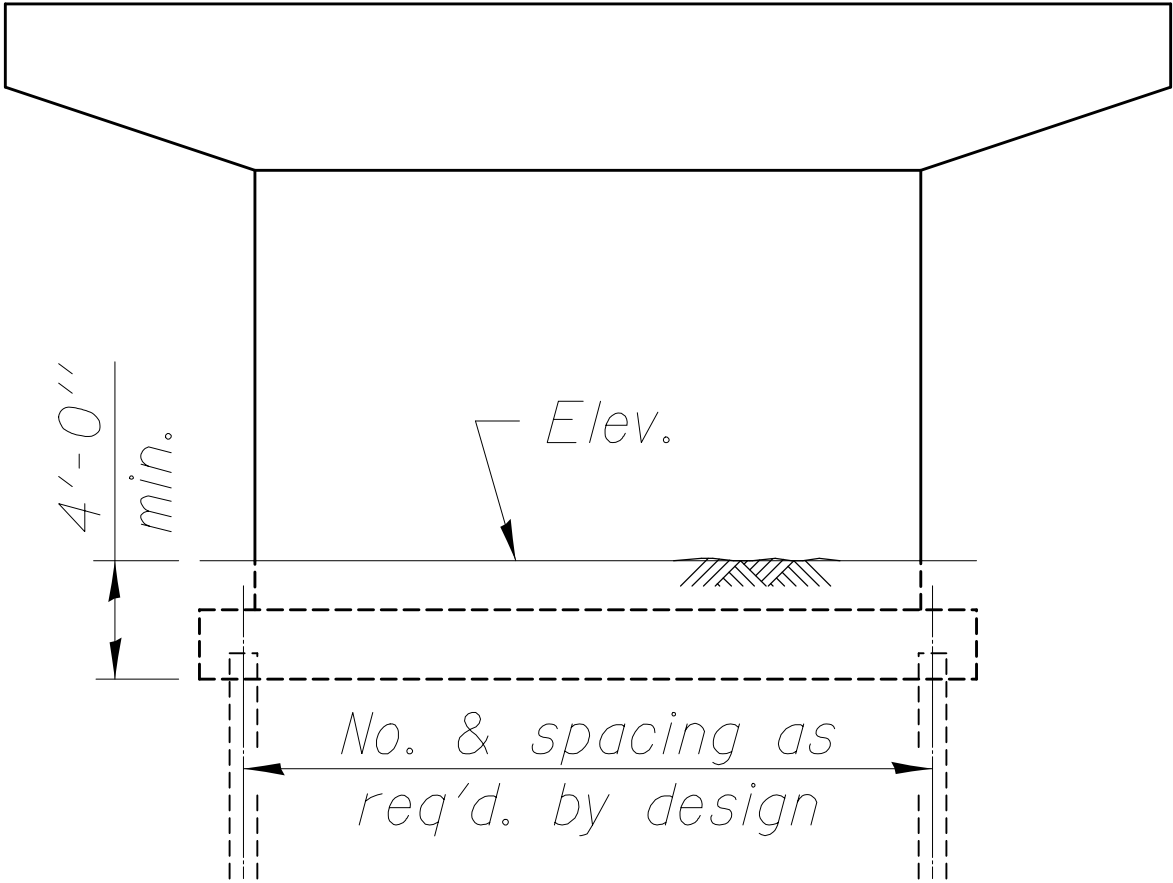
Descrip: 2 column trapezoidal pier sketch



PIER SKETCH

Cell Name: P00089

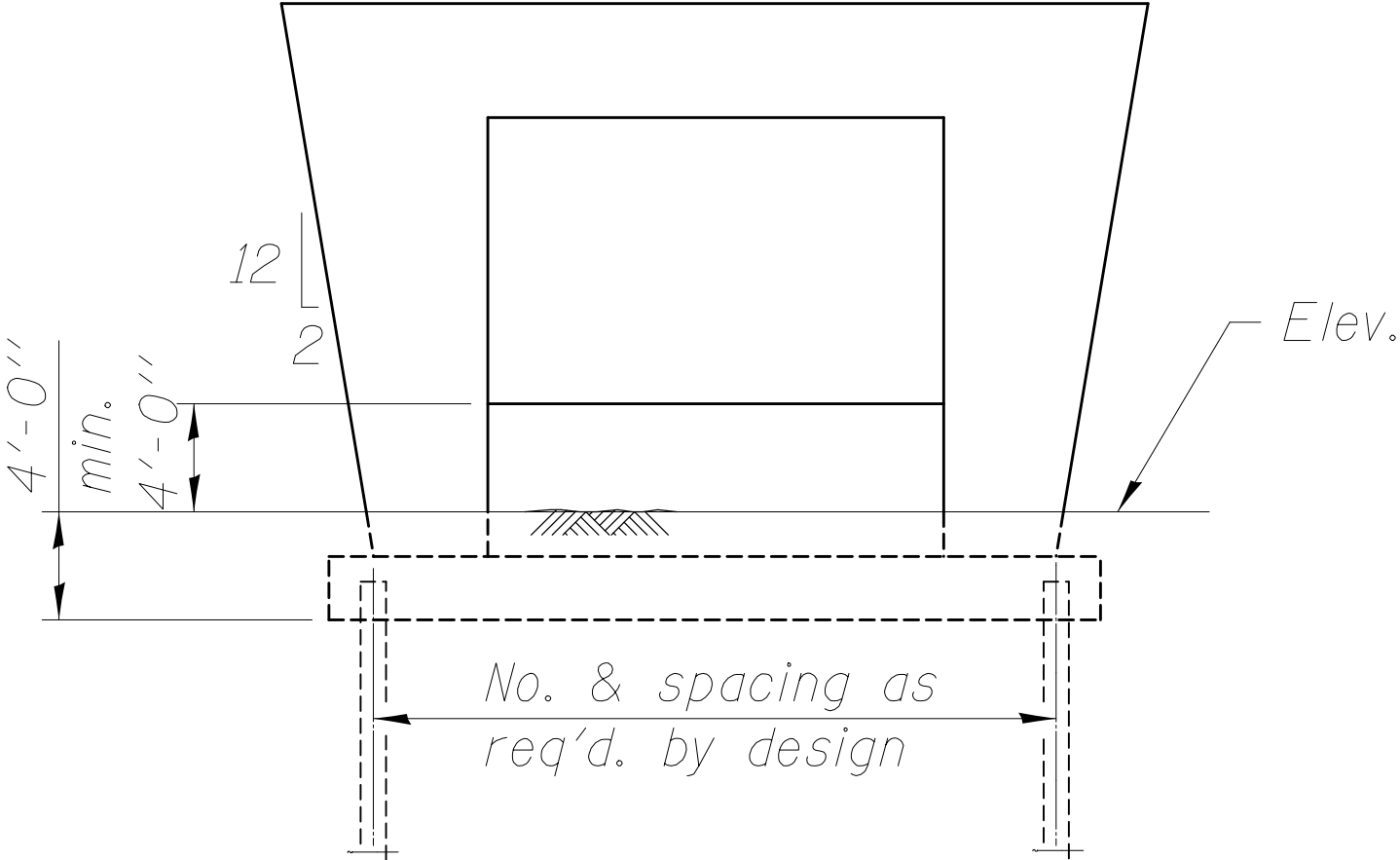
Descrip: Solid hammerhead pier sketch



PIER SKETCH

Cell Name: P00090

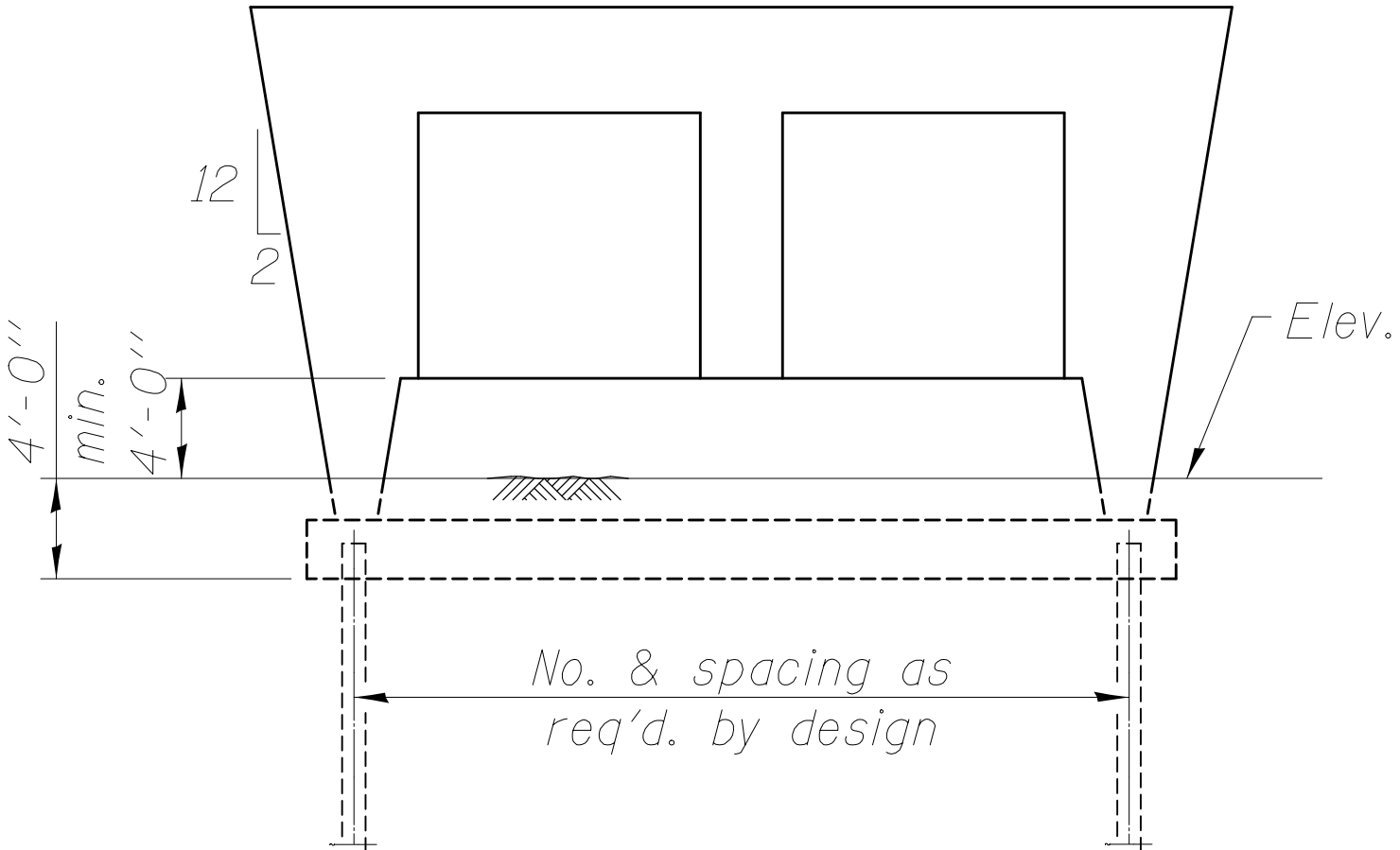
Descrip: 2 column trapezoidal pier with spread footing sketch



PIER SKETCH

Cell Name: P00091

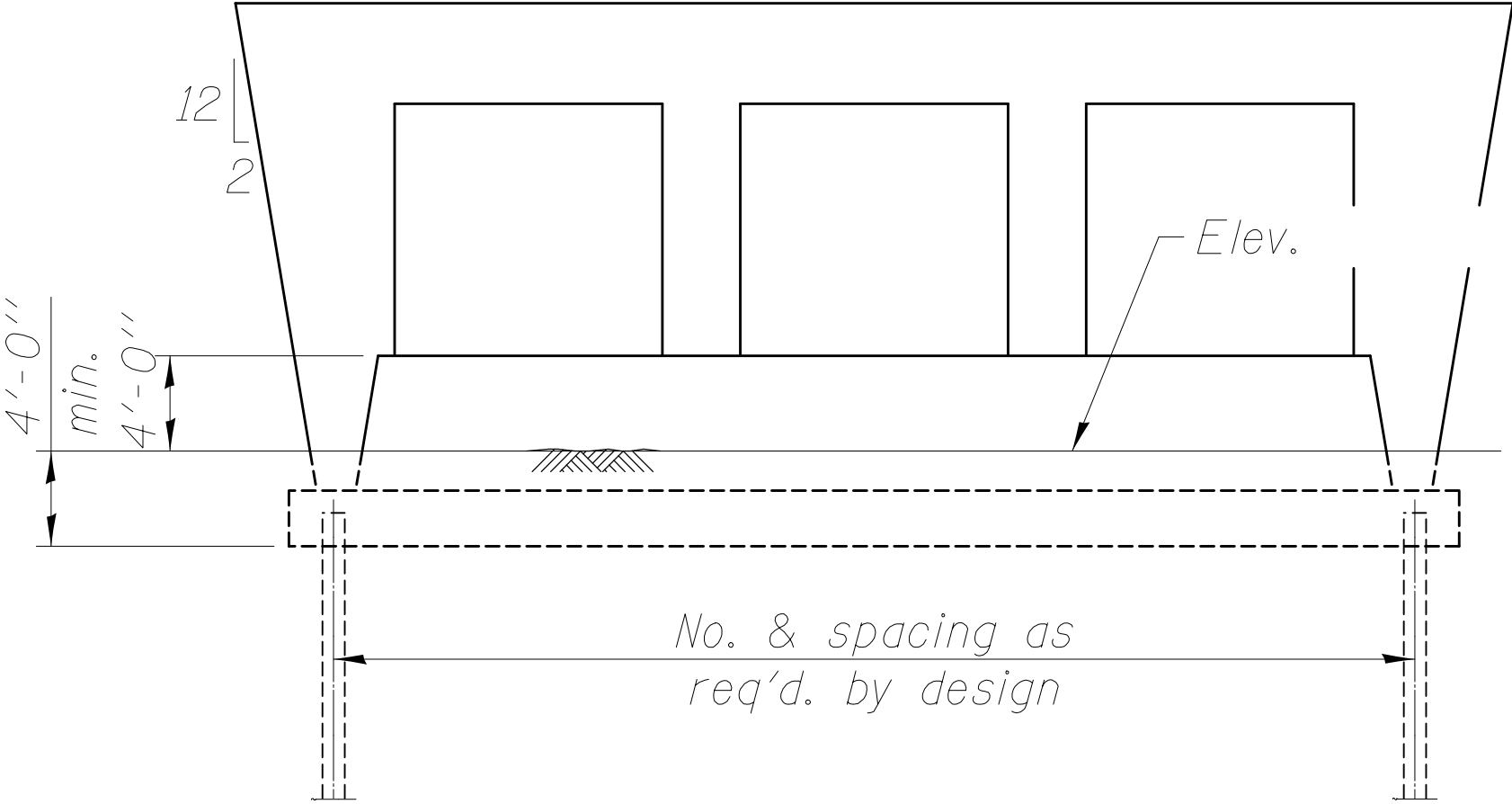
Descrip: 3 column trapezoidal pier with spread footing sketch



PIER SKETCH

Cell Name: P00092

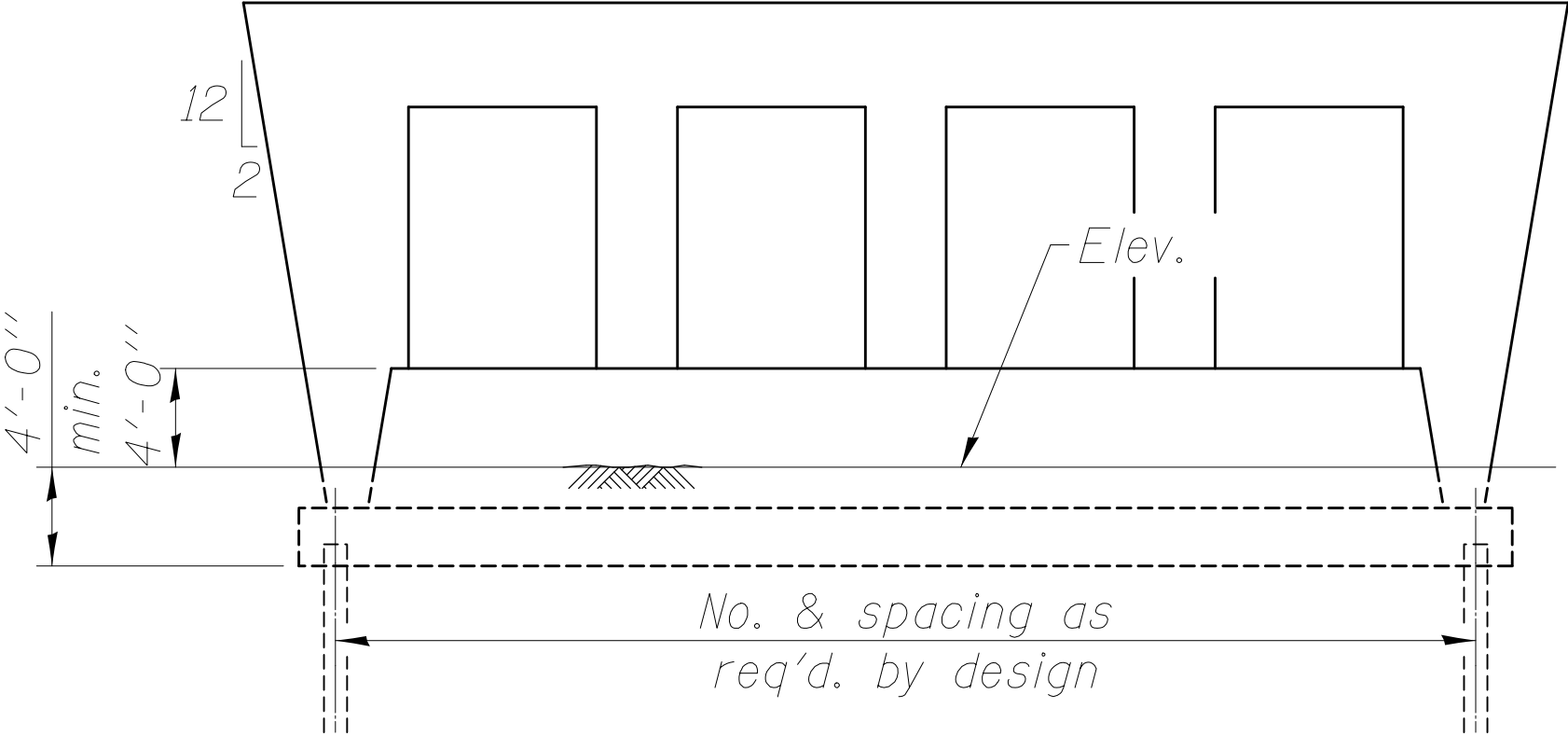
Descrip: 4 column trapezoidal pier with spread footing sketch



PIER SKETCH

Cell Name: P00093

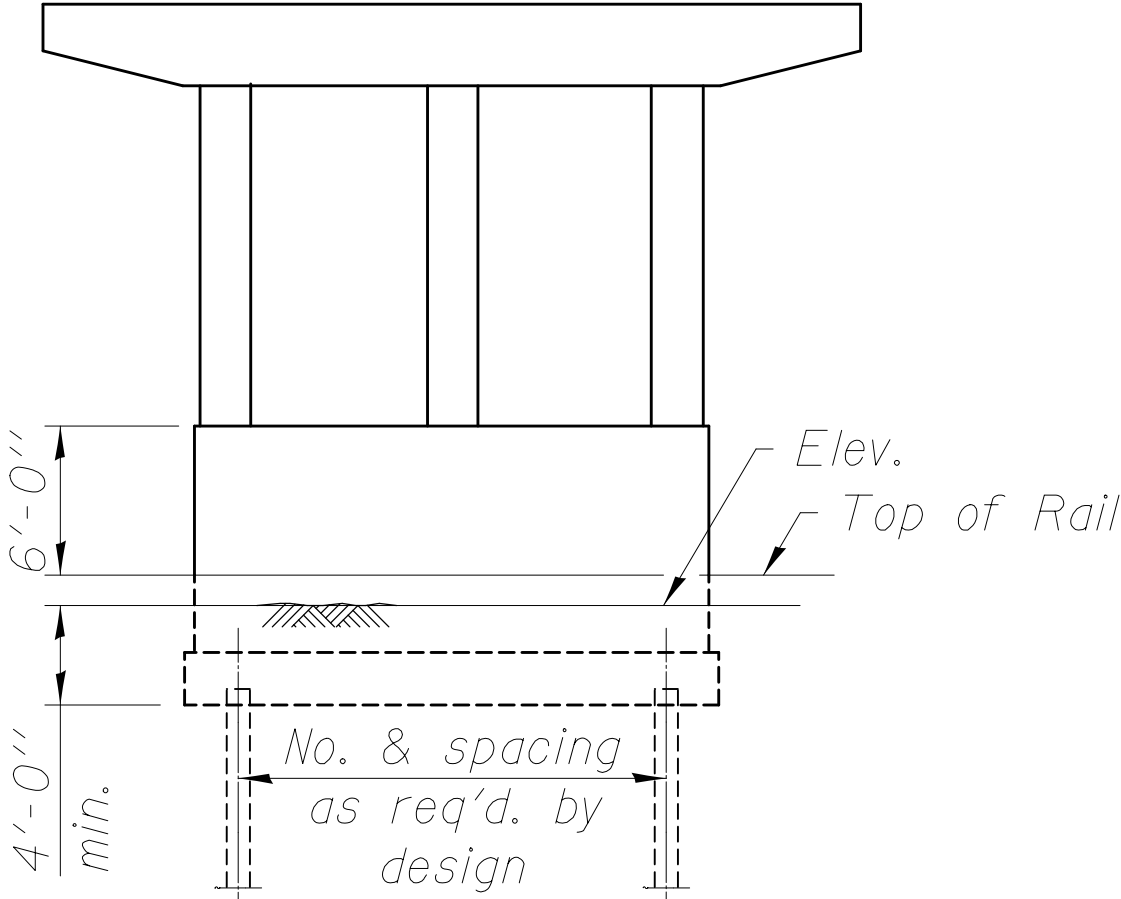
Descrip: 5 column trapezoidal pier with spread footing sketch



PIER SKETCH

Cell Name: P00094

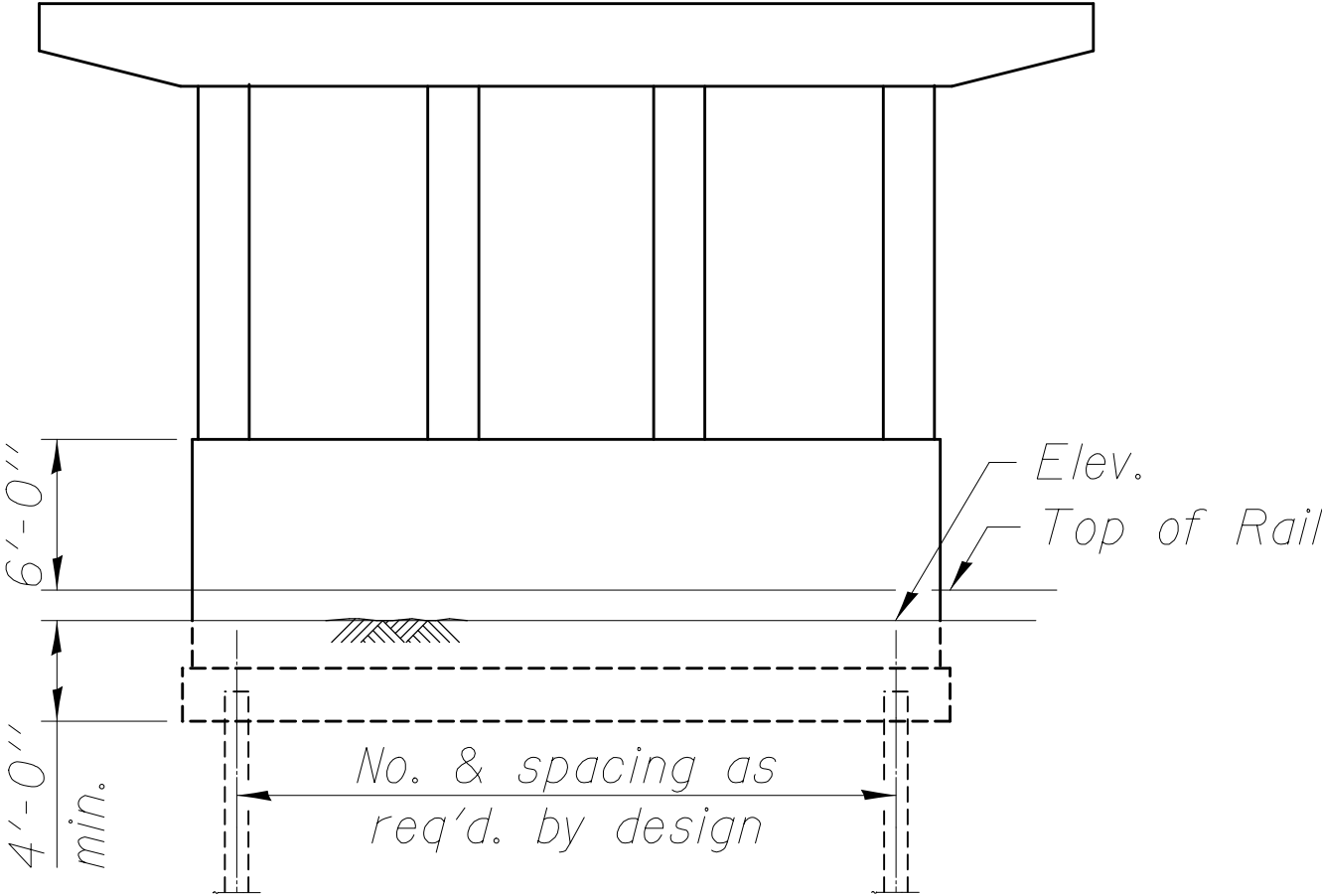
Descrip: 2 bay railroad pier with round columns sketch



PIER SKETCH

Cell Name: P00095

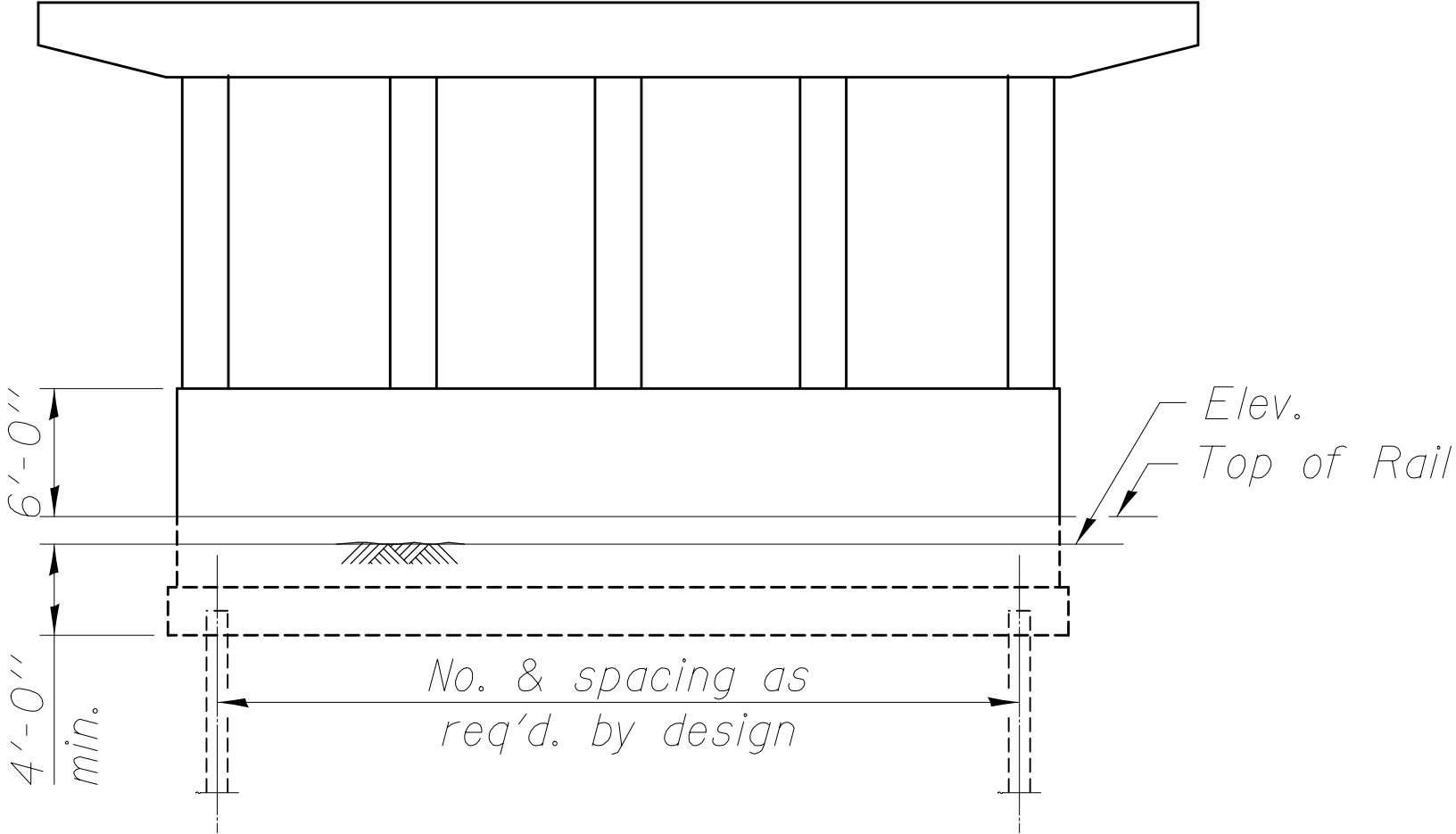
Descrip: 3 bay railroad pier with round columns sketch



PIER SKETCH

Cell Name: P00096

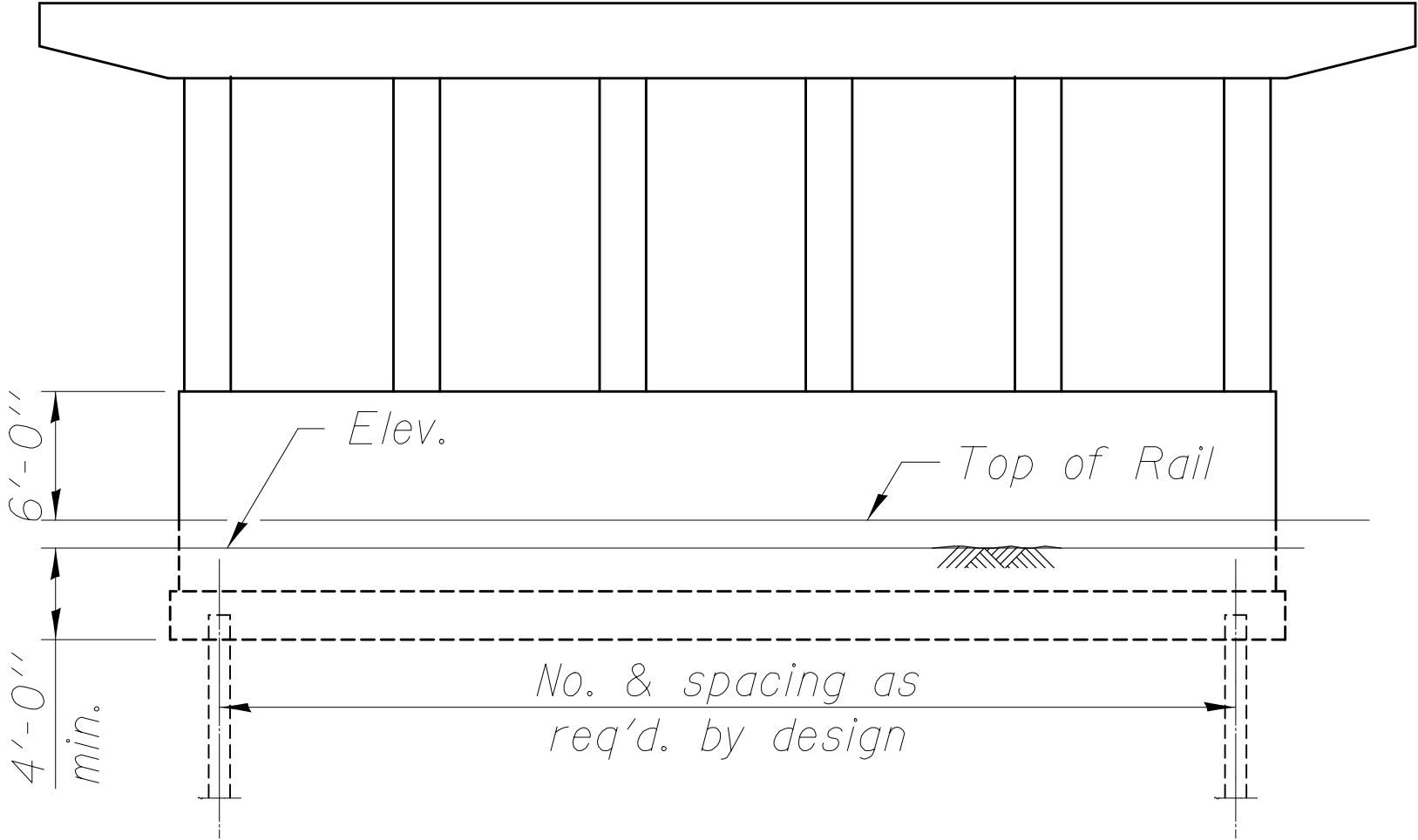
Descrip: 4 bay railroad pier with round columns, modified, sketch



PIER SKETCH

Cell Name: P00097

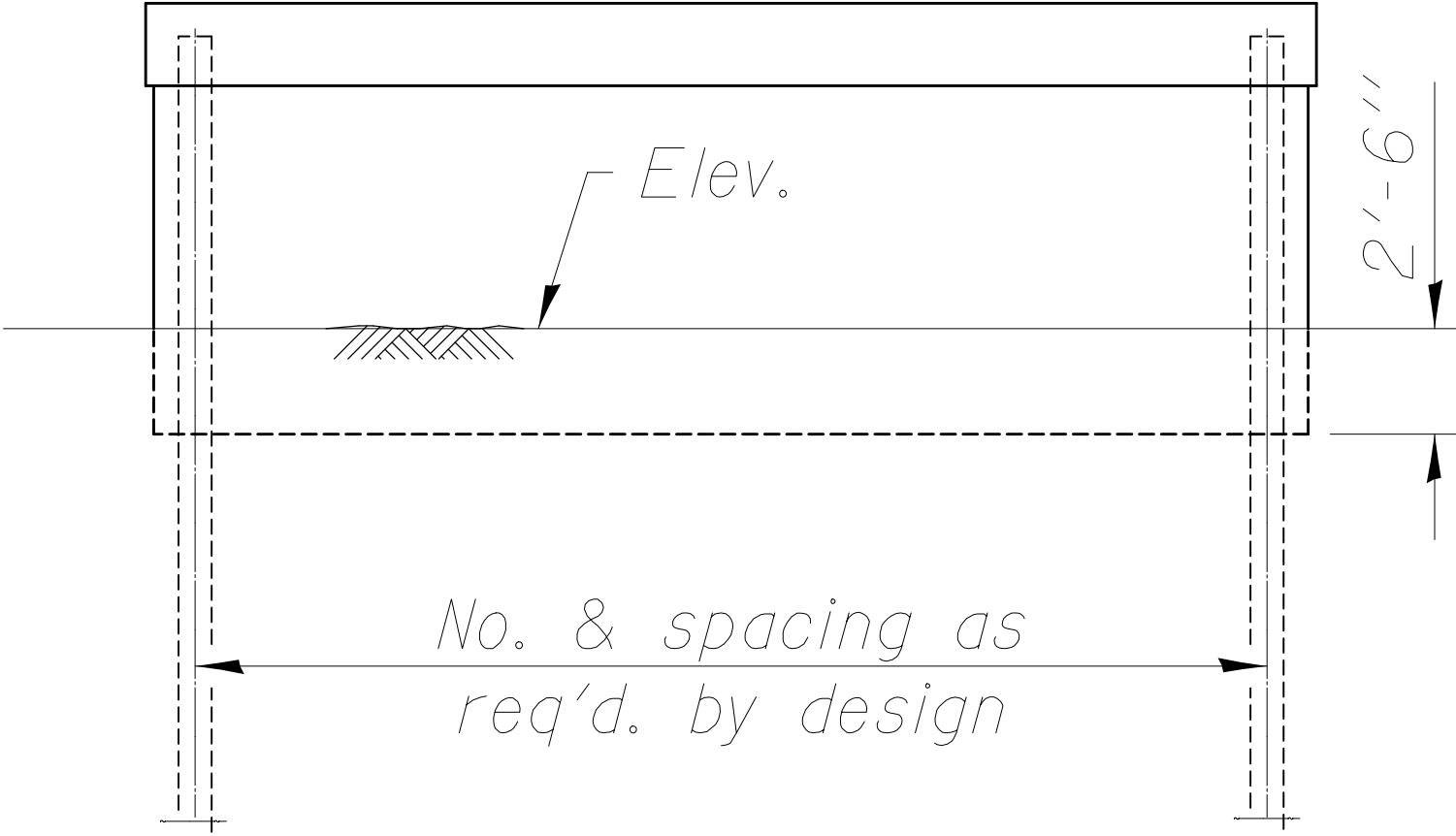
Descrip: 5 bay railroad pier with round columns sketch



PIER SKETCH

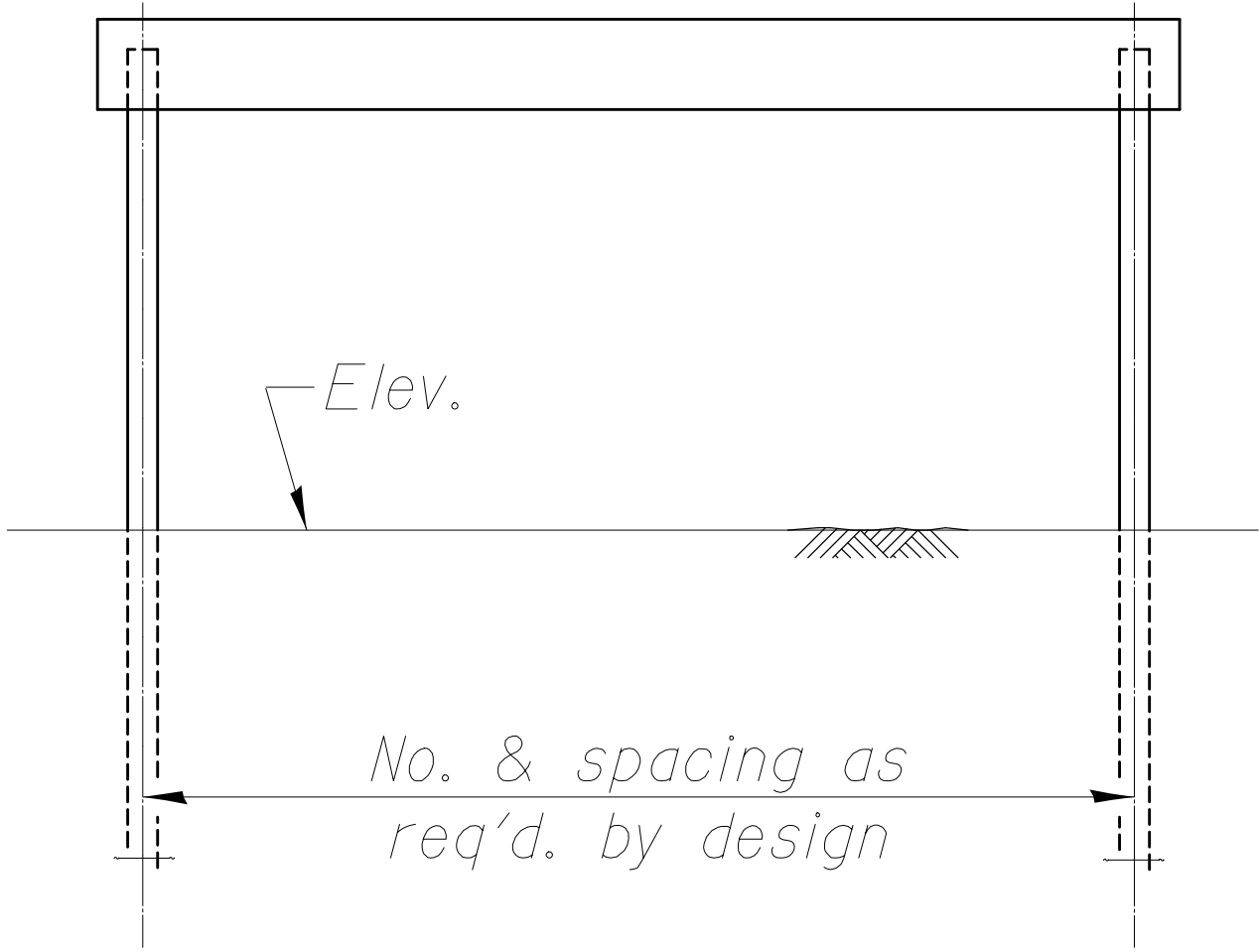
Cell Name: P00098

Descrip: Encased pile bent pier sketch



PIER SKETCH

Cell Name: P00099
Descrip: Pile bent pier sketch

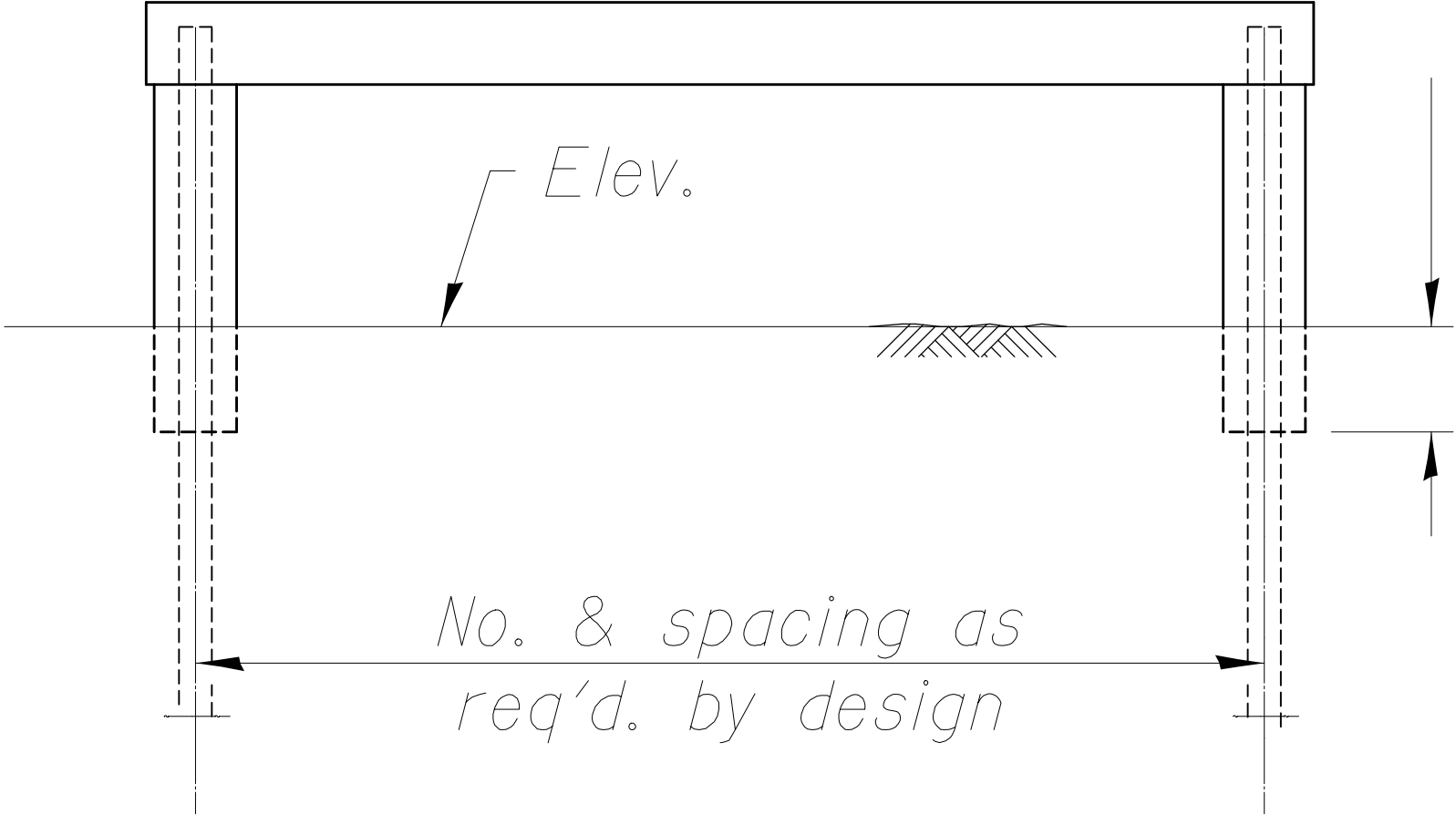


No. & spacing as
req'd. by design

PIER SKETCH

Cell Name: P00100

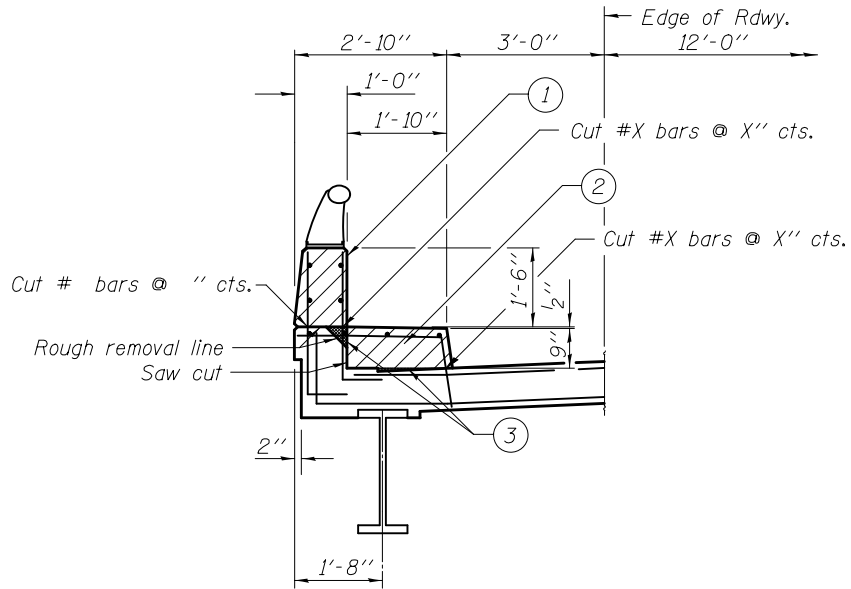
Descrip: Individually encased pile bent pier sketch



PIER SKETCH

Cell Name: P00110

Descrip: Safety walk and parapet removal details



**SAFETY WALK & PARAPET
REMOVAL DETAILS**

(Existing Reinforcement shown in accordance with original plans)

Parapet & Safety Walk Removal Sequence

- ① Remove parapet above safety walk.
- ② Saw cut safety walk as shown & remove to rough removal line.
- ③ Complete removal to finish line with light hammer (45# or less) or waterjet only.

Notes to Designer

- 1. Bill retrofit as "Concrete Parapet & Safety Walk Removal and Retrofit." in Linear Feet.
- 2. Concrete removal for drain replacement should be billed as Concrete Removal and Class X Concrete.

