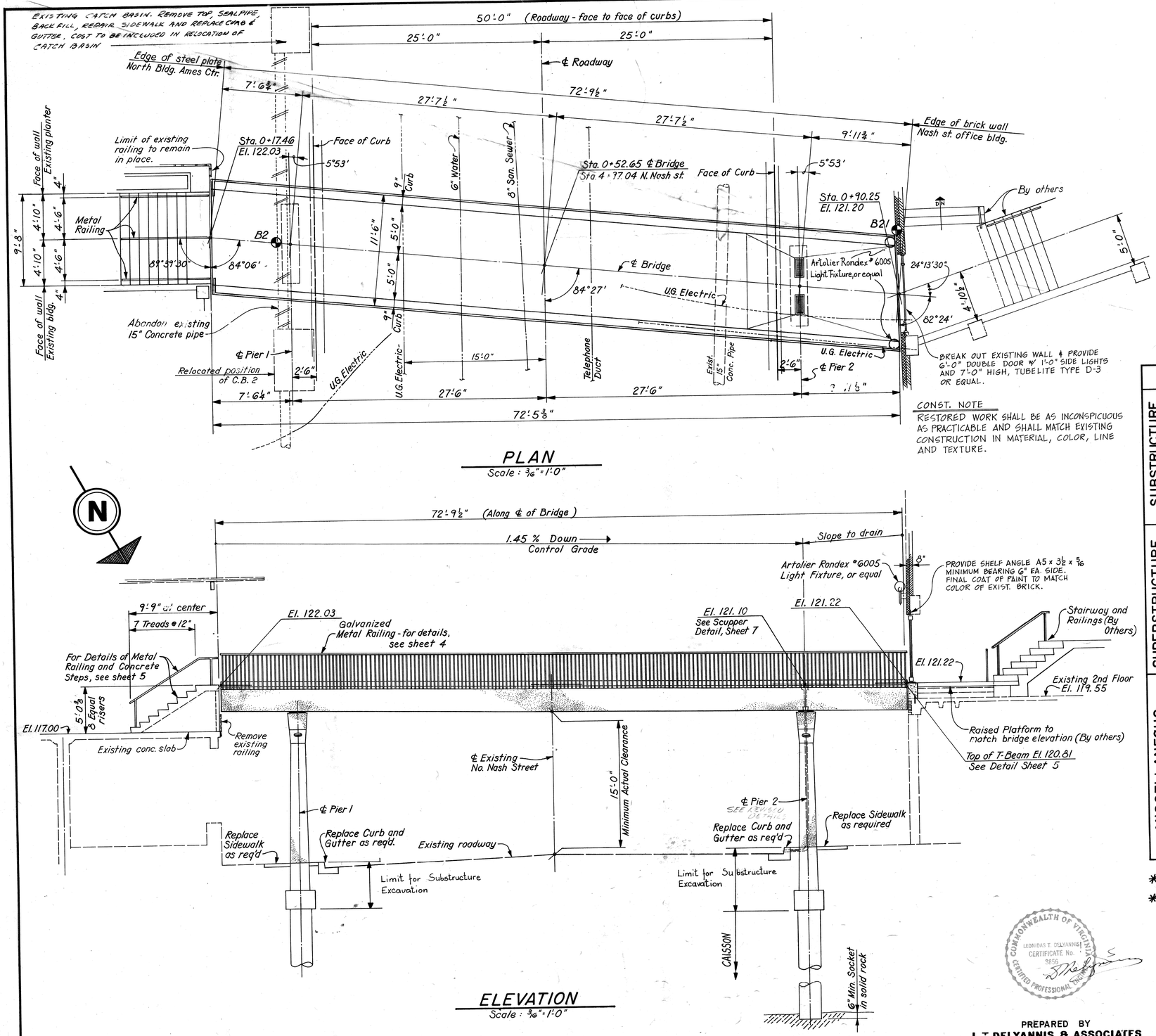


PLAN
Scale : 3/16"=1'-0"

ELEVATION
Scale : 3/16"=1'-0"

GENERAL NOTES

SPECIFICATIONS:

GENERAL – Arlington County Department of Transportation "Street and Storm Sewer Specifications", 1968. Virginia Department of Highways "Road and Bridge Specifications", and Supplemental Specifications & Special Provisions, 1970.

DESIGN – A.A.S.H.O. "Standard Specifications for Highway Bridges", 1969, and Interim Specifications, 1970, 1971 and 1972.

ELECTRICAL – National Safety Code; National Electrical Code; Requirements of Local building code and power company.

PRESTRESSING STRANDS – AASHO M203 (ASTM A416)

REINFORCING BARS ——— AASHO M31 (ASTM A615)

W. WIRE MESH ——— AASHO M55 (ASTM A185)

PRESTRESSED CONCRETE – Minimum Strength at 28 days, 6000 p.s.i.

CONCRETE – Minimum Strength at 28 days, 3000 p.s.i.

STRUCTURAL STEEL ——— A.S.T.M. A-36

DESIGN LIVE LOAD – 150 p.s.f.

FOUNDATION — Caissons shall bear on sound, undisturbed rock, having a bearing capacity of 20 tons per sq. foot.

(GENERAL NOTES Continued on sheet 2 of 7)

CONST. NOTE
RESTORED WORK SHALL BE AS INCONSPICUOUS AS PRACTICABLE AND SHALL MATCH EXISTING CONSTRUCTION IN MATERIAL, COLOR, LINE AND TEXTURE.

ESTIMATED QUANTITIES

	DESCRIPTION	UNIT	QUANTITY PIER 1	QUANTITY PIER 2
SUBSTRUCTURE	Sheeting	S.F.	270	360
	Excavation	C.Y.	12.3	15.9
	Pier Concrete Class A3	C.Y.	7.5	7.5
	Caisson Concrete Class A3	C.Y.	6.3	3.4
	Reinforcing Steel	lbs.	2915	2915
SUPERSTRUCTURE	28" T-Beams (Av. length: 72'-5½")	EA.	3	
	Handrail	L.F.	145	
	Cast-in-Place Conc. Curb & Diaphragms - Cl. A4	C.Y.	4.9	
	Concrete Deck Surfacing Class A4	S.Y.	80.5 **	
	Reinforcing Steel	lbs.	252	
	Drainage System	L.S.	—	
	Lighting System (North Bldg. Ames Ctr.)	L.S.	—	
	Lighting System (Nash St. Office Bldg.)	L.S.	—	
MISCELLANEOUS	* Stairway (conc. - east end) Class A4	C.Y.	5.2	
	* Reinforcing Steel (conc. stairs)	lbs.	540	
	* Handrail (conc. stairs)	L.S.	—	
	* Concrete Brick (under conc. stairs at east end)	S.F.	44	
	Door Cut-out	L.S.	—	
	Door Assembly	EA.	1	
	Remove Existing Railing	L.S.	—	
	Replace Conc. Curb and Gutter	L.F.	30	
	Replace Sidewalk	S.Y.	30	
	Relocate Catch Basin	L.S.	—	

* Deletable bid items

** Cost of W.W. Mesh to be included with "Concrete Deck Surfacing, Class A4"

COMMONWEALTH OF VIRGINIA — LEONIDAS T. DELYANNIS — CERTIFICATE No. 9856 — CERTIFIED PROFESSIONAL ENGINEER

PREPARED BY
L. T. DELYANNIS & ASSOCIATES
ARLINGTON, VIRGINIA

Sheet 1 of 7

ARLINGTON, VIRGINIA
DEPARTMENT OF TRANSPORTATION

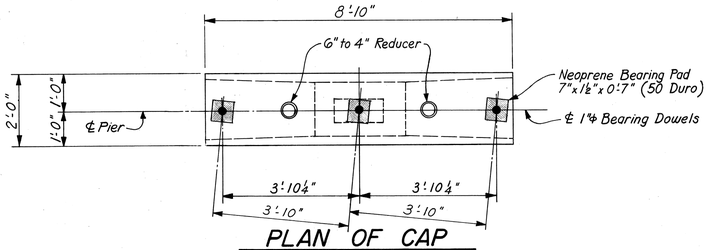
PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN - ARLINGTON, VIRGINIA

SCALE As Noted	DRAWN J.P.	DESIGNED V.L.	TRACED J.P.	CHECKED L.T.D.

SUBMITTED	APPROVED	APPROVED
	Emerson F. Hunsberger ASS'T. HIGHWAY ENGINEER	DIRECTOR OF TRANSPORTATION
DATE	DATE Feb. 25. 1974	DATE 2-26-74

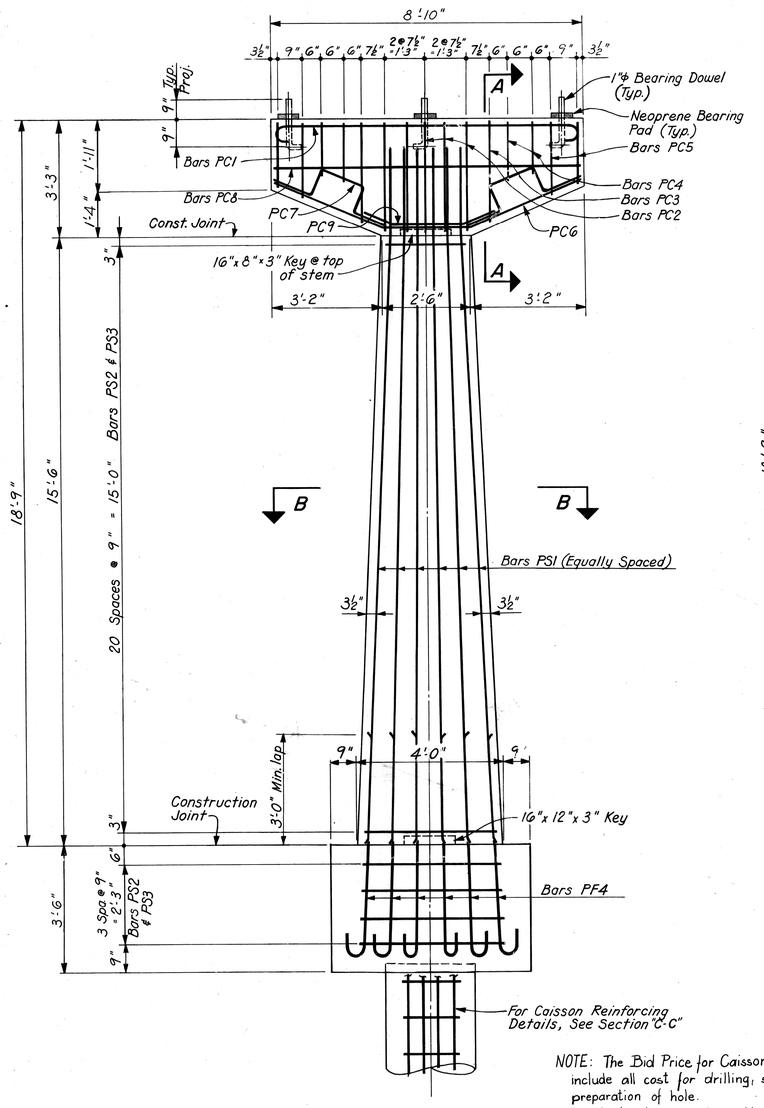
CONTRACT H-263

3-3



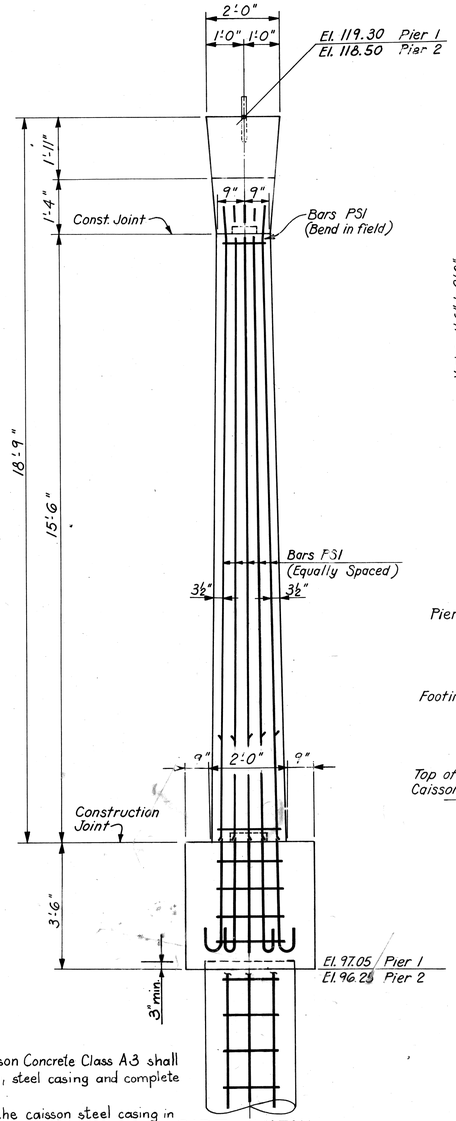
PLAN OF CAP

Scale: ½"=1'-0"



ELEVATION

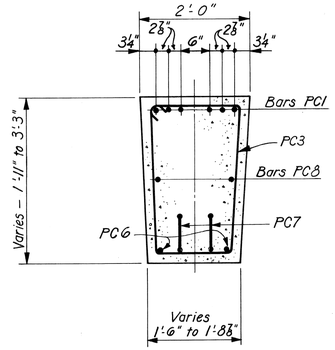
Scale: ½"=1'-0"



SIDE VIEW

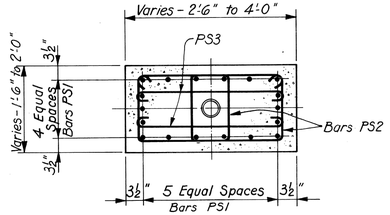
Scale: ½"=1'-0"

NOTE: The Bid Price for Caisson Concrete Class A-3 shall include all cost for drilling, steel casing and complete preparation of hole.
The Contractor may leave the caisson steel casing in place if he so elects.



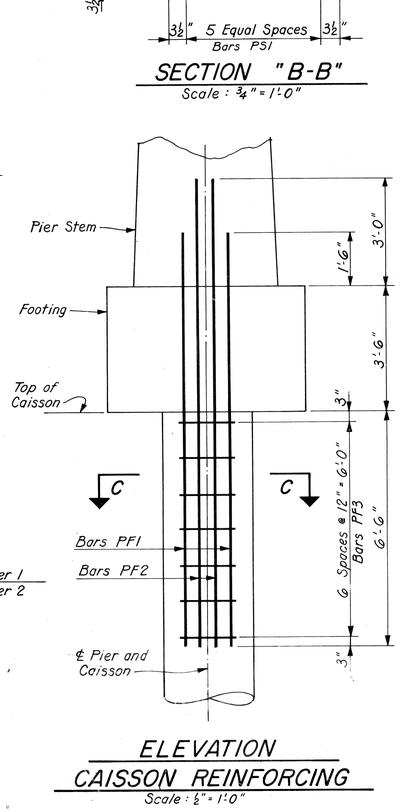
SECTION "A-A"

Scale: ¾"=1'-0"



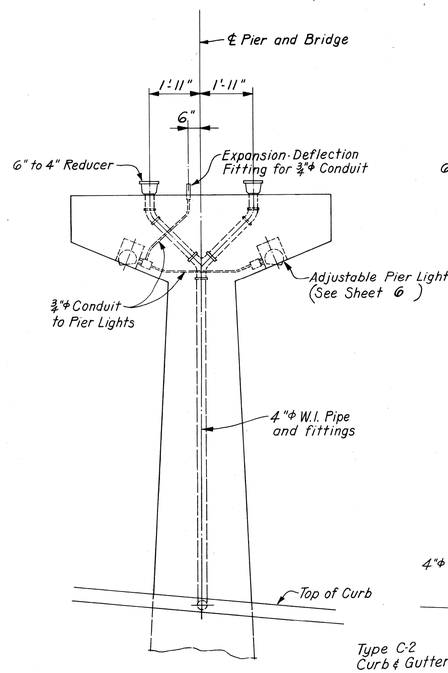
SECTION "B-B"

Scale: ¾"=1'-0"

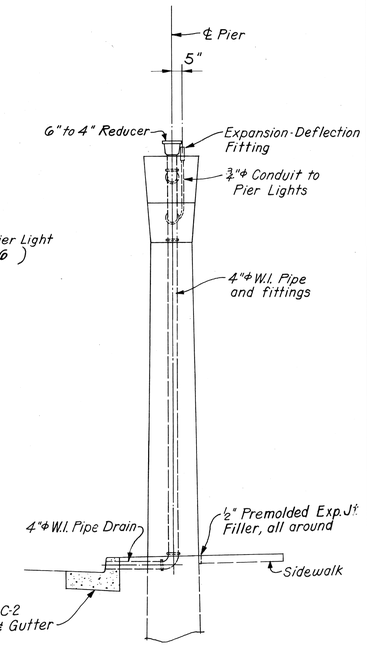


ELEVATION
CAISSON REINFORCING

Scale: ½"=1'-0"



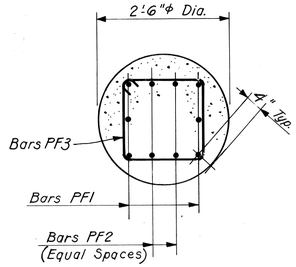
ELEVATION



SIDE VIEW

ELECTRICAL CONDUIT LOCATION (PIER 1, 2)
DRAINAGE LOCATION (PIER 2)

Scale: ⅜"=1'-0"



SECTION "C-C"

Scale: ¾"=1'-0"

GENERAL NOTES (CONTINUED)

All reinforcing bar dimensions on the detailed drawings are to center of bars except where otherwise noted.

The Contractor shall verify all dimensions and elevations pertaining to existing construction prior to beginning construction of the Pedestrian Bridge.

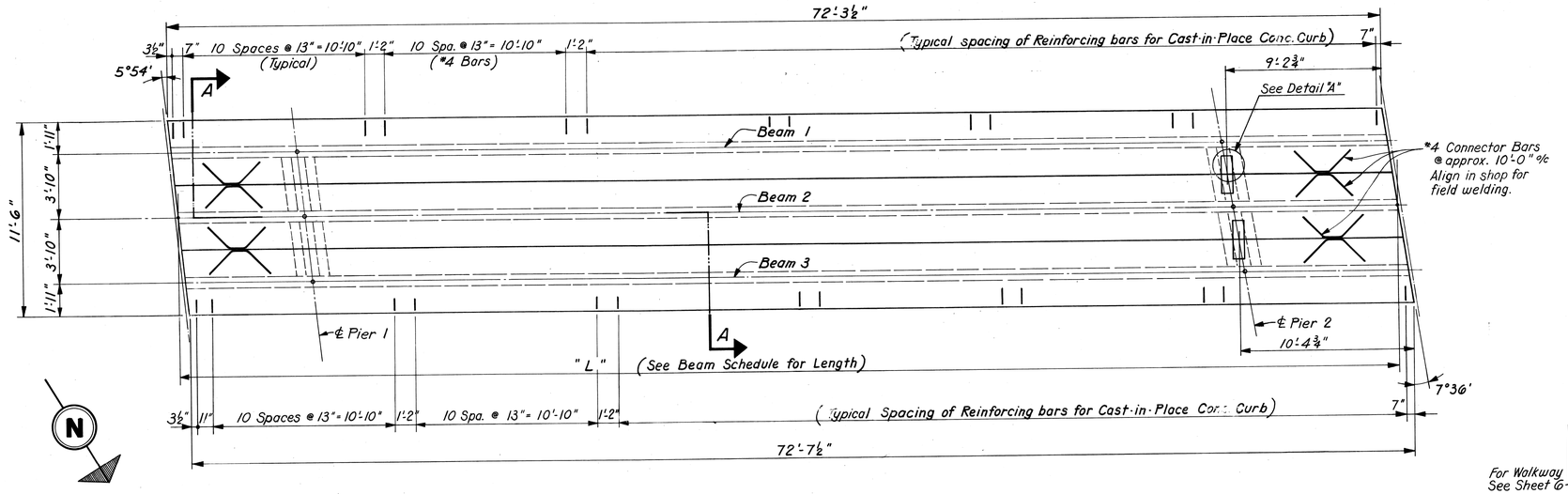
If "Deletable Items" are deleted from the contract, the work under these items will be in place before bridge construction begins.

Traffic shall be maintained on the North Nash Street during construction except during erection of the Lin Tees which shall take place between 10:00 a.m. and 2:30 p.m. Traffic for this operation shall not be stopped for more than one hour at a time.

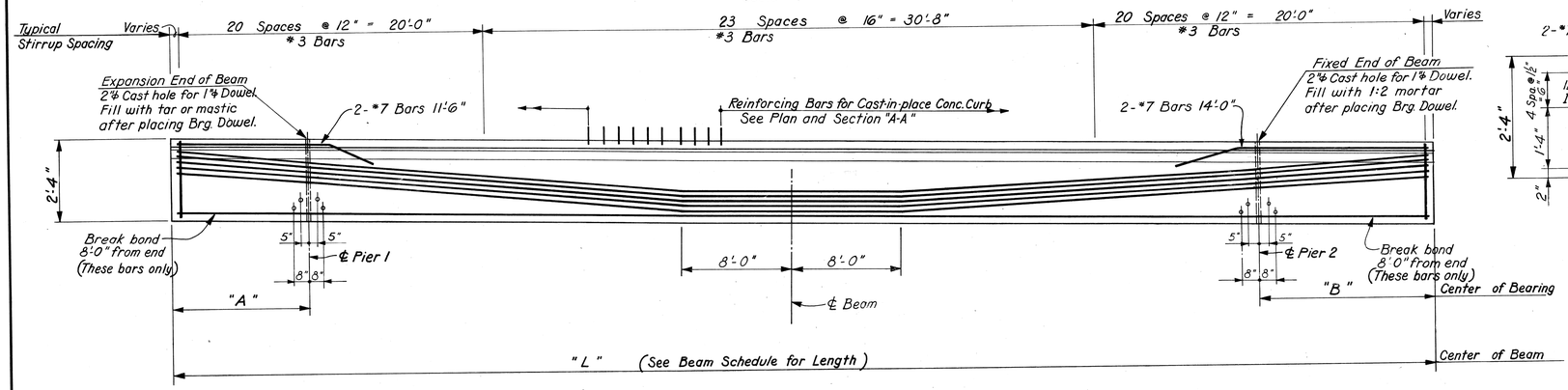
PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN-ARLINGTON, VIRGINIA

PIER DETAILS

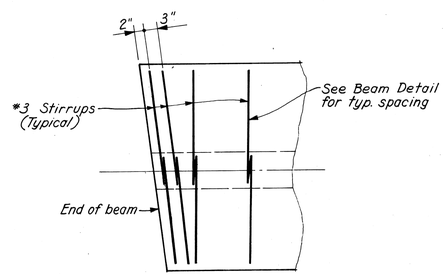
BEAM SCHEDULE			
Beam Nº	Length at ℄ Beam	Centers of Bearings	
		A	B
1	72'-4⅛"	7'-5"	9'-8"
2	72'-5½"	7'-4¾"	9'-9¾"
3	72'-6⅞"	7'-4½"	9'-11⅜"



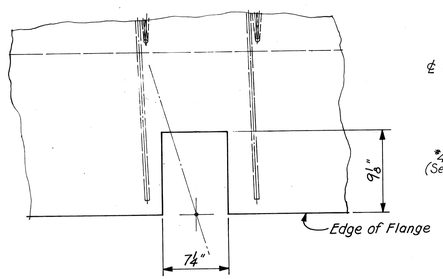
PLAN
Scale : 4" = 1'-0"



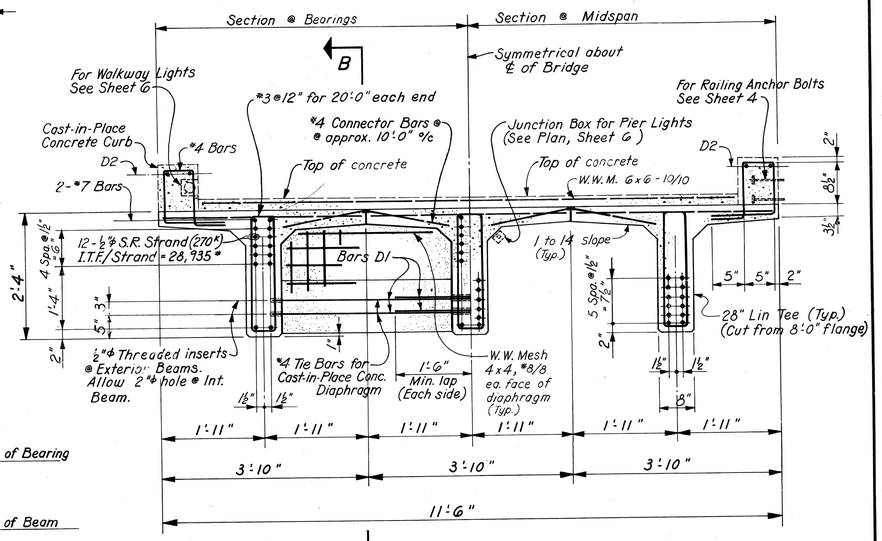
BEAM DETAIL (ELEVATION)
Not to Scale



PLAN
TYPICAL STIRRUP LOCATION
Scale : ¾" = 1'-0"

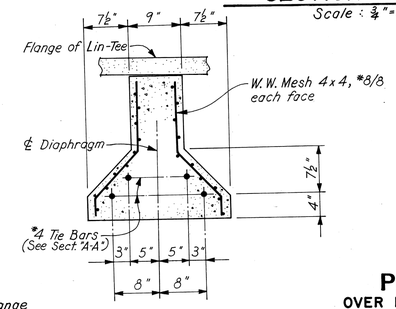


DETAIL "A"
TYPICAL CUT-OUT FOR SCUPPER
Scale : 1½" = 1'-0"



B

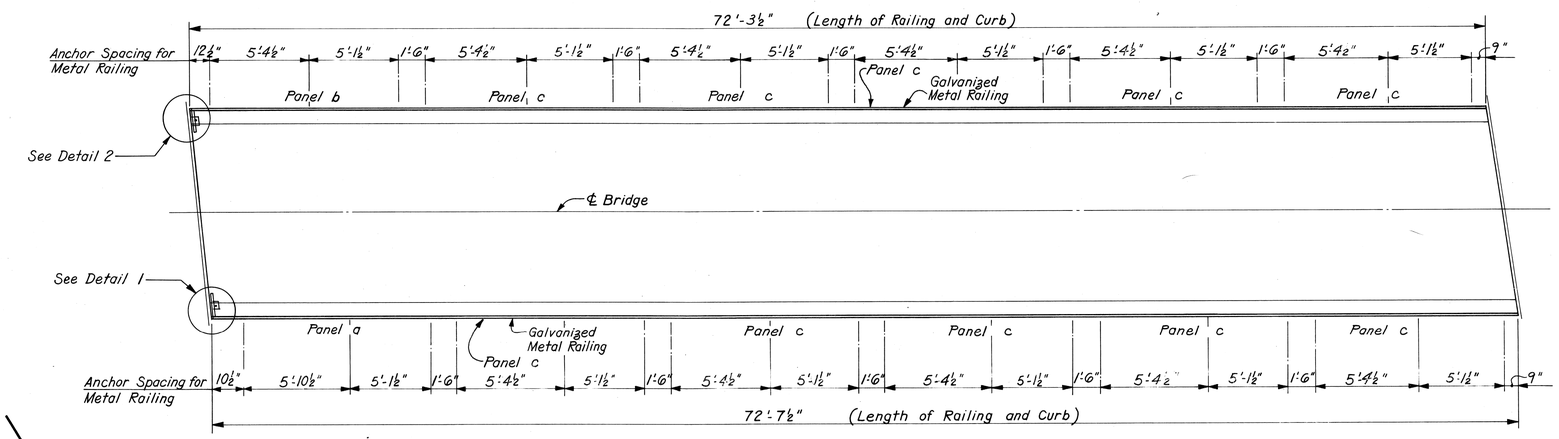
SECTION "A-A"
Scale : ¾" = 1'-0"



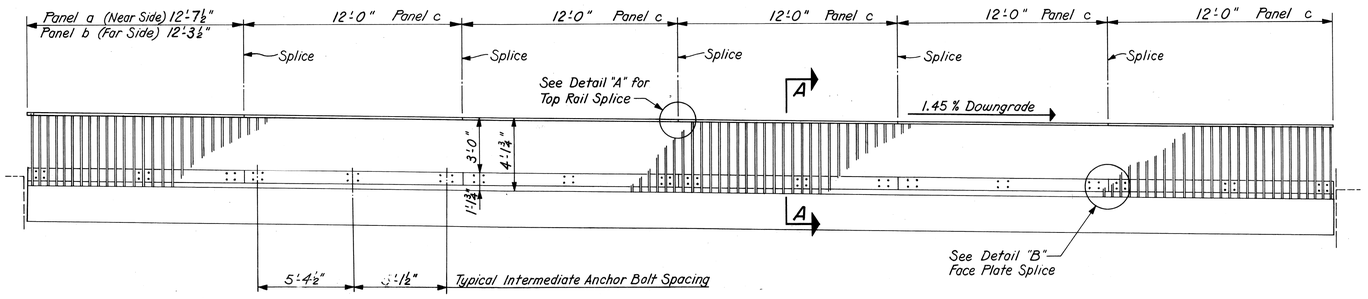
SECTION "B-B"
Scale : ¾" = 1'-0"

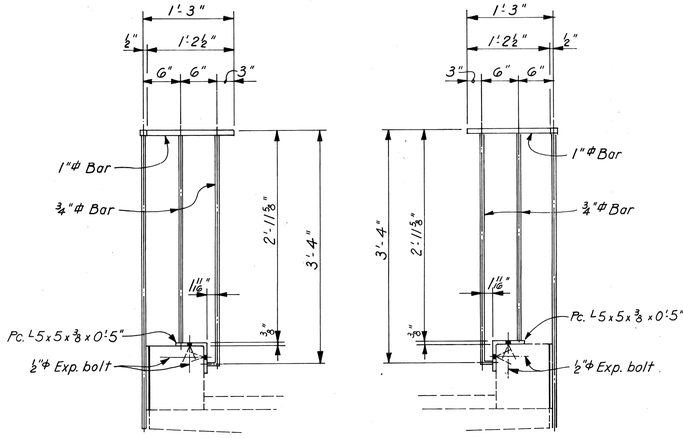
PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN · ARLINGTON, VIRGINIA

SUPERSTRUCTURE DETAILS



PLAN
Scale : 4" = 1'-0"

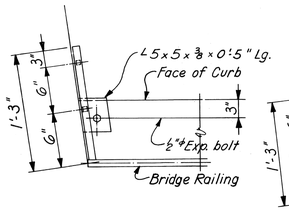




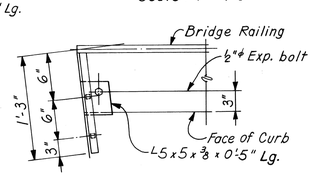
END VIEW - PANEL b

END VIEW - PANEL a

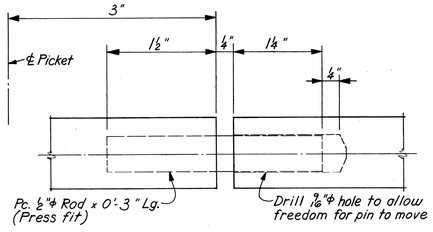
RAILING ELEVATIONS
Scale : 1" = 1'-0"



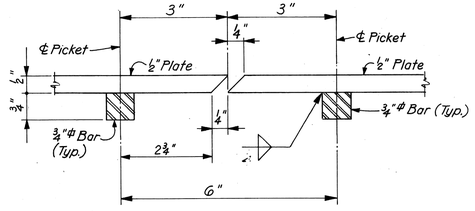
DETAIL 1
Not to Scale



DETAIL 2
Not to Scale



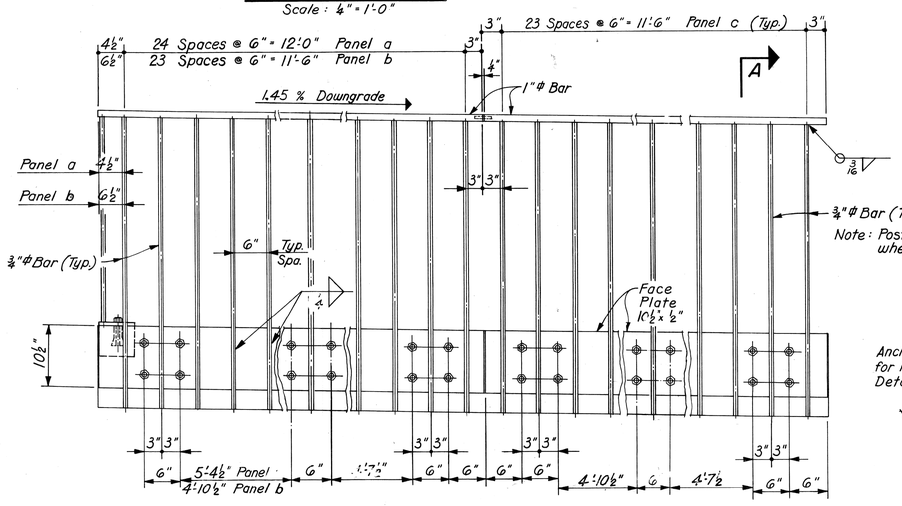
DETAIL "A"
SPLICE DETAIL FOR TOP RAIL
Scale : Full



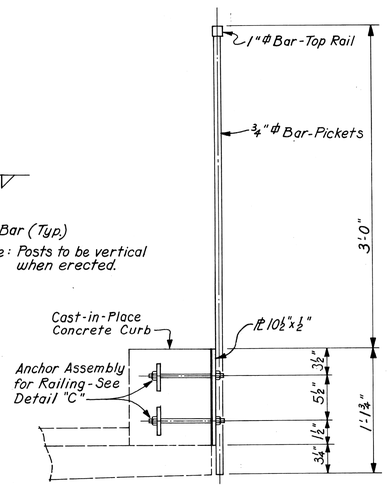
DETAIL "B"
SPLICE DETAIL FOR FACE PLATE
Scale : 6" = 1'-0"

Note : Railings to be H.D. Galvanized after fabrication.

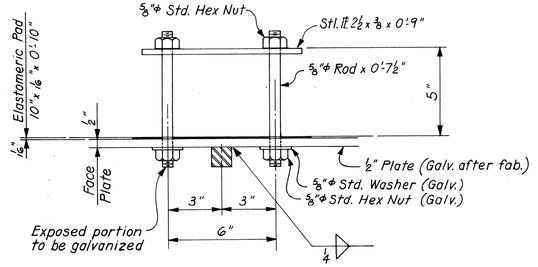
ELEVATION
Scale : ¼" = 1'-0"



RAILING DETAIL AND ANC. BOLT SPACING
Scale : 1" = 1'-0"



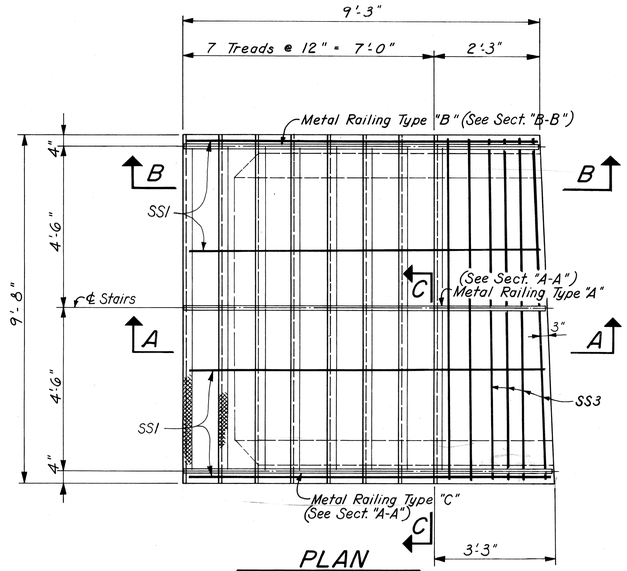
SECTION "A-A"
Scale : 1½" = 1'-0"



DETAIL "C"
PLAN VIEW OF RAILING ANCHOR
Scale : 3" = 1'-0"

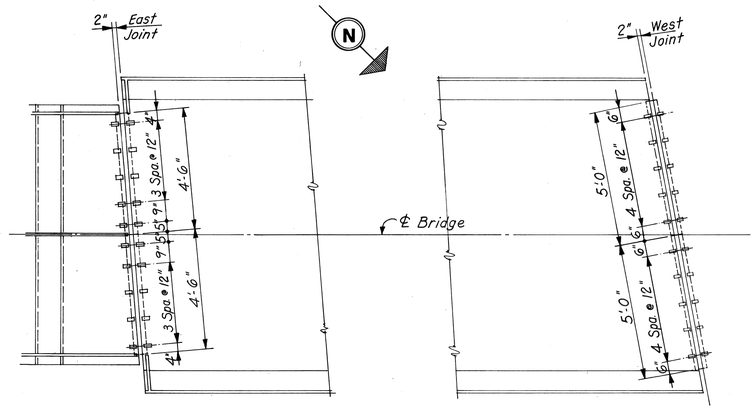
PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN · ARLINGTON, VIRGINIA

RAILING DETAILS



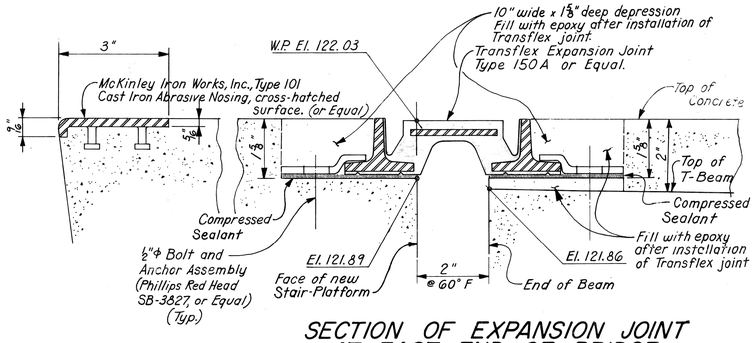
PLAN

Scale : ½"=1'-0"



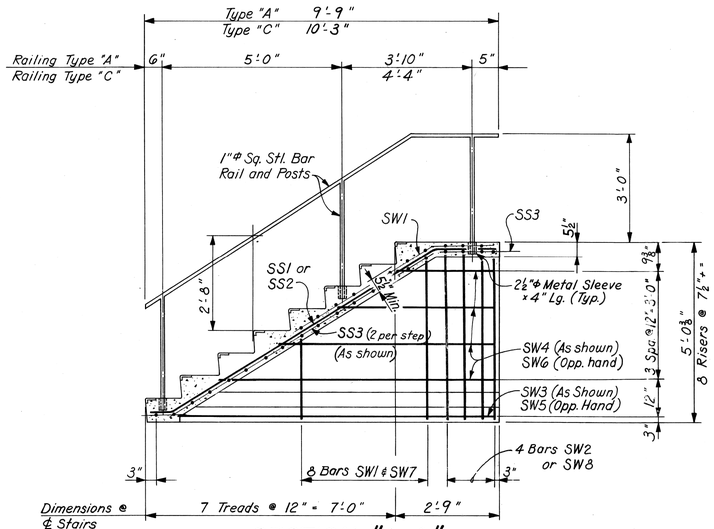
EXPANSION JOINT PLAN ANCHOR LOCATION

Not to Scale



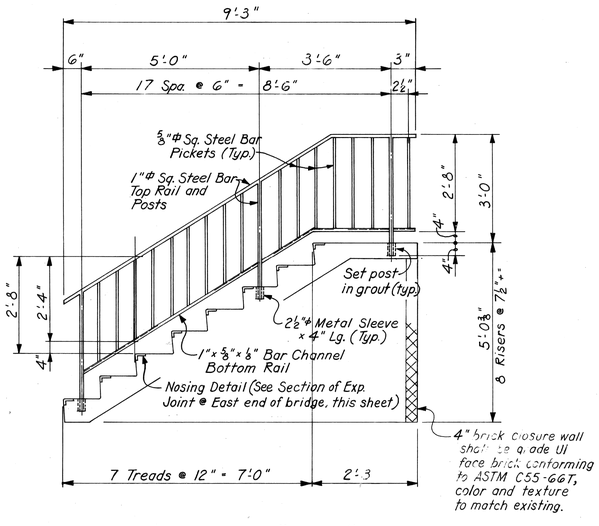
SECTION OF EXPANSION JOINT AT EAST END OF BRIDGE

Scale : 6" = 1'-0"



SECTION "A-A"

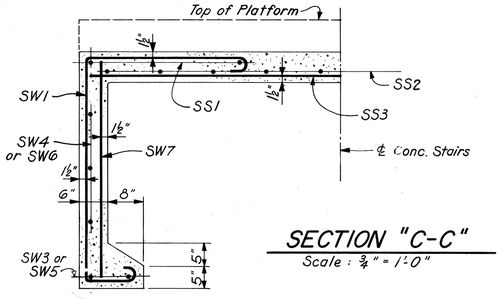
Scale : ½"=1'-0"



SECTION "B-B"

Scale : ½"=1'-0"

Note : All steel railings to H. D. Galvanized after fabrication.

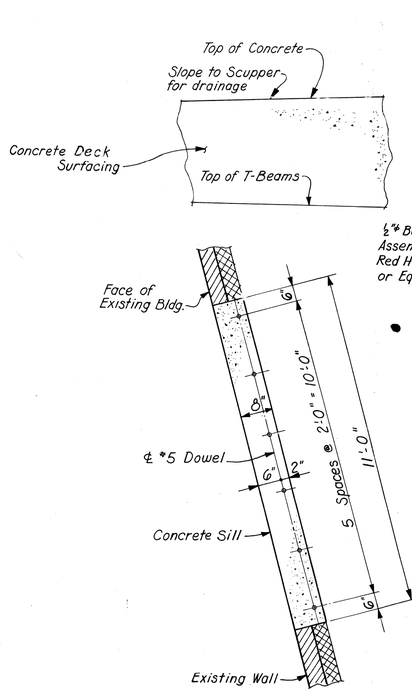


SECTION "C-C"

Scale : ¾" = 1'-0"

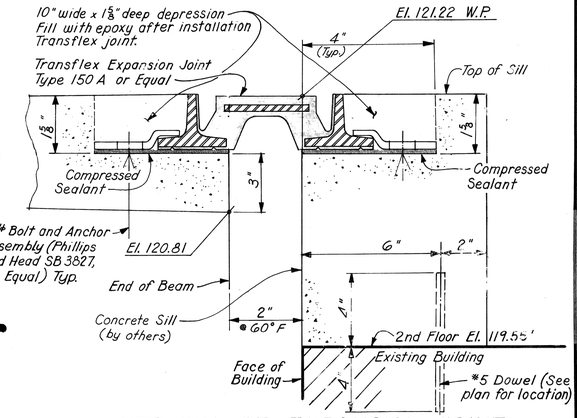
* CONCRETE STAIRS AND GALVANIZED STEEL RAILING DETAILS

(* Deletable Bid Item)



NEW CONCRETE SILL PLAN - ANCHOR LOCATION

Not to Scale



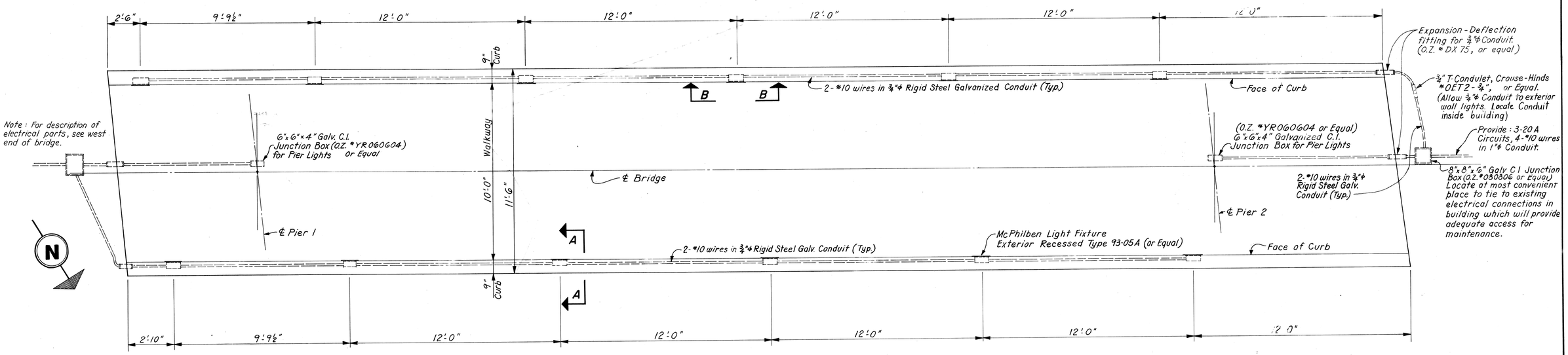
SECTION OF EXPANSION JOINT AT WEST END OF BRIDGE

Not to Scale

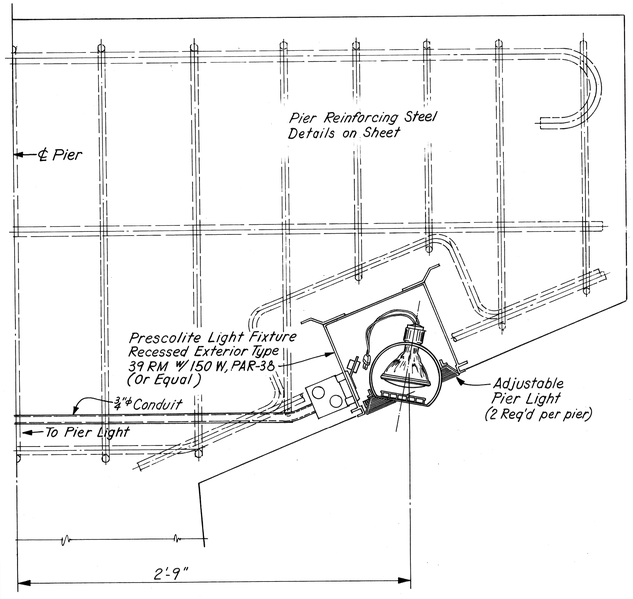
Note : Cost of Transflex Expansion Joints to be included in "Concrete Deck Surfacing, Class A4"

PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN-ARLINGTON, VIRGINIA

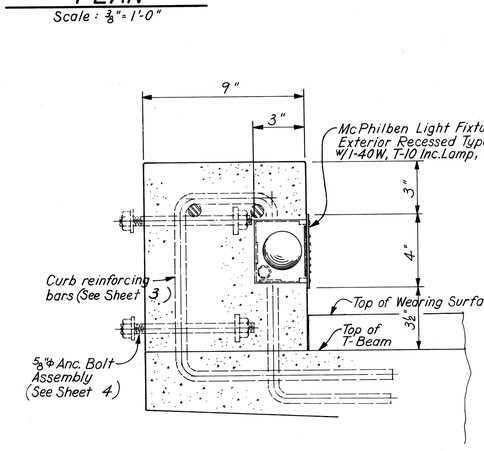
CONCRETE STAIR & STEEL RAILING; EXP. JOINT DETS.



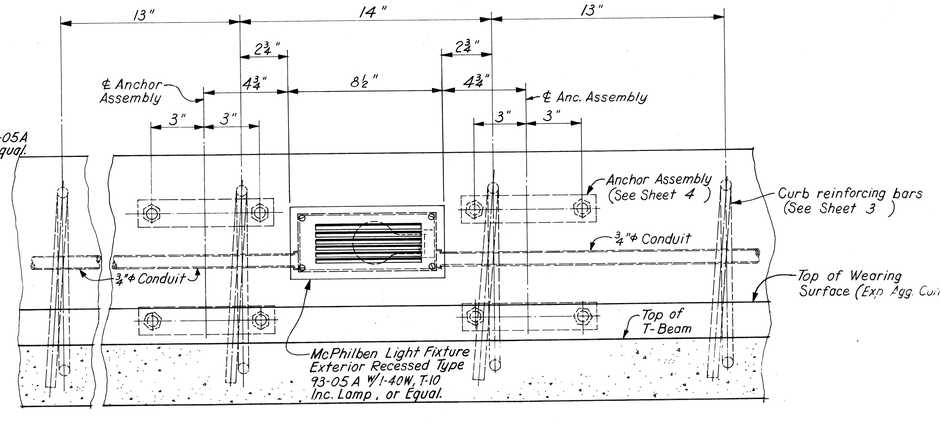
PLAN
Scale: ⅜"=1'-0"



ELEVATION
LIGHT FIXTURE DETAIL AT PIER
Not to Scale



SECTION "A-A"
Scale: 3"=1'-0"



SECTION "B-B"
Scale: 3"=1'-0"

Note: Electrical Contractor shall provide and locate Photo Electric Switch for automatic switching of walkway and pier lighting, and also provide manual switch for back-up.

LIGHT FIXTURE DETAIL AT WALKWAY CURB

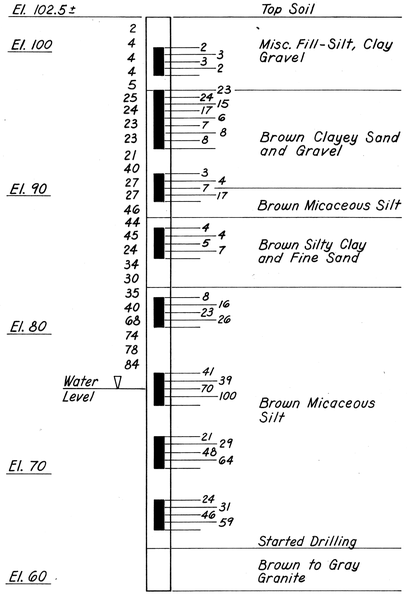
PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN · ARLINGTON, VIRGINIA

ELECTRICAL DETAILS

REINFORCING STEEL SCHEDULE

MARK	No.	SIZE	LENGTH	PIN	LOCATION
PIERS 1 & 2					***EACH***
PC1	6	#8	10'-8"	8"ϕ	Pier Cap
PC2	5	#5	8'-9"	2½"ϕ	"
PC3	2	#5	8'-4"	2½"ϕ	"
PC4	4	#5	6'-1" to 6'-6"	2½"ϕ	"
PC5	4	#5	6'-8" to 7'-2"	2½"ϕ	"
PC6	2	#5	9'-0"	3¾"ϕ	"
PC7	4	#5	4'-8"	3¾"ϕ	"
PC8	2	#5	8'-6"	—	"
PC9	2	#5	4'-0"	3¾"ϕ	"
PS1	18	#9	18'-0"	—	Stem
PS2	50	#5	5'-2" to 8'-4"	2½"ϕ	Stem & Footing
PS3	50	#5	3'-3" to 5'-0½"	3¾"ϕ	" "
PF1	6	#9	11'-6"	—	Footing
PF2	4	#9	13'-0"	—	"
PF3	7	#4	6'-4"	2½"ϕ	"
PF4	18	#9	7'-4"	9"ϕ	"
CONCRETE STAIRS					
SS1	4	#4	10'-4" to 11'-4"	2"ϕ	
SS2	10	#4	10'-4" to 11'-4"	2"ϕ	
SS3	20	#5	9'-3"	—	
SW1	16	#4	6'-10" to 9'-0"	2"ϕ	
SW2	8	#4	9'-2"	2"ϕ	
SW3	2	#4	8'-6"	—	
SW4	4	#4	2'-3" to 6'-9"	—	Note: Vary by 1'-6"
SW5	2	#4	9'-6"	—	
SW6	4	#4	3'-3" to 7'-9"	—	Note: Vary by 1'-6"
SW7	16	#4	2'-4" to 4'-6"	—	
SW8	8	#4	4'-8"	—	
SUPERSTRUCTURE					
D1	16	#4	5'-2"	Thread 1 end	Diaphragms
D2	8	#4	36'-9"	—	Concrete curb

Boring B-2

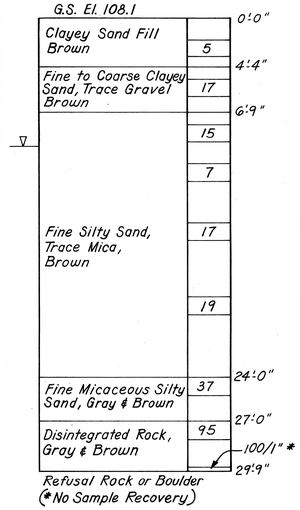


Casing I.D. = 2½"
Hammer Wt. = 250 lbs.
Hammer Fall = 30"
Diamond Bit 2"ϕ

Sampler I.D. = 1⅜"
Hammer Wt. = 140 lbs.
Hammer Fall = 30"

Boring B-21

G.S. El. 108.1

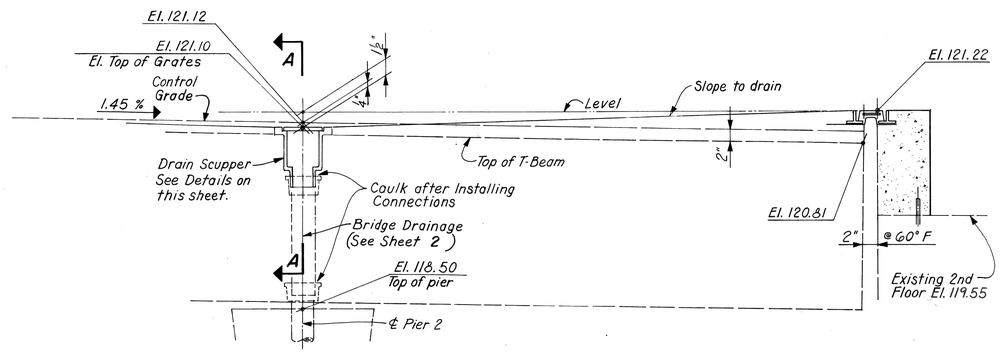


Refusal Rock or Boulder
(* No Sample Recovery)

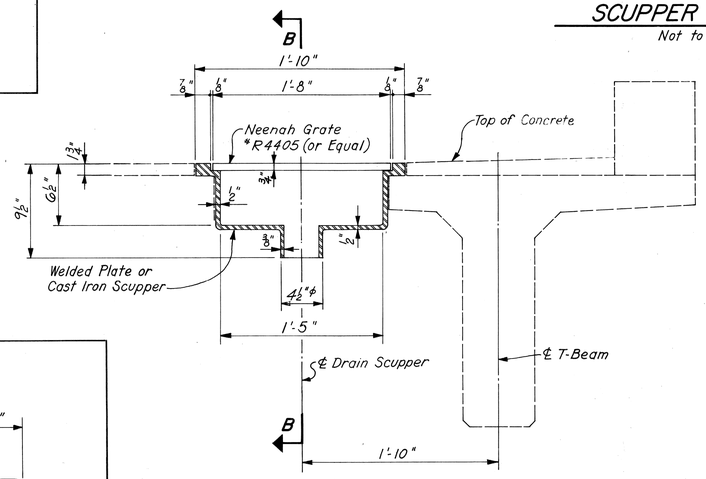
Water Levels
Upon Completion at 8'-11"
Hole Bailed to 13'-1"
After Casing pulled 9'-2"
Water at 9'-6" after 19 hrs.
Caved at 19'-6"; 20'-0" of 1¼"ϕ Pipe inserted.

Boring information is copied from records supplied by the Department of Transportation, Arlington County, Virginia.

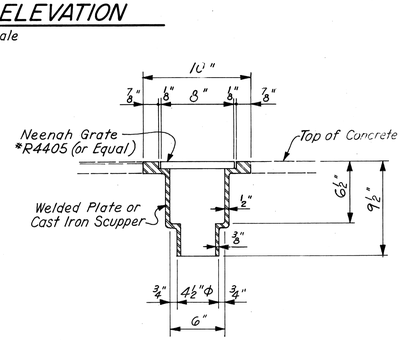
See Sheet One for boring locations.



SCUPPER ELEVATION
Not to Scale

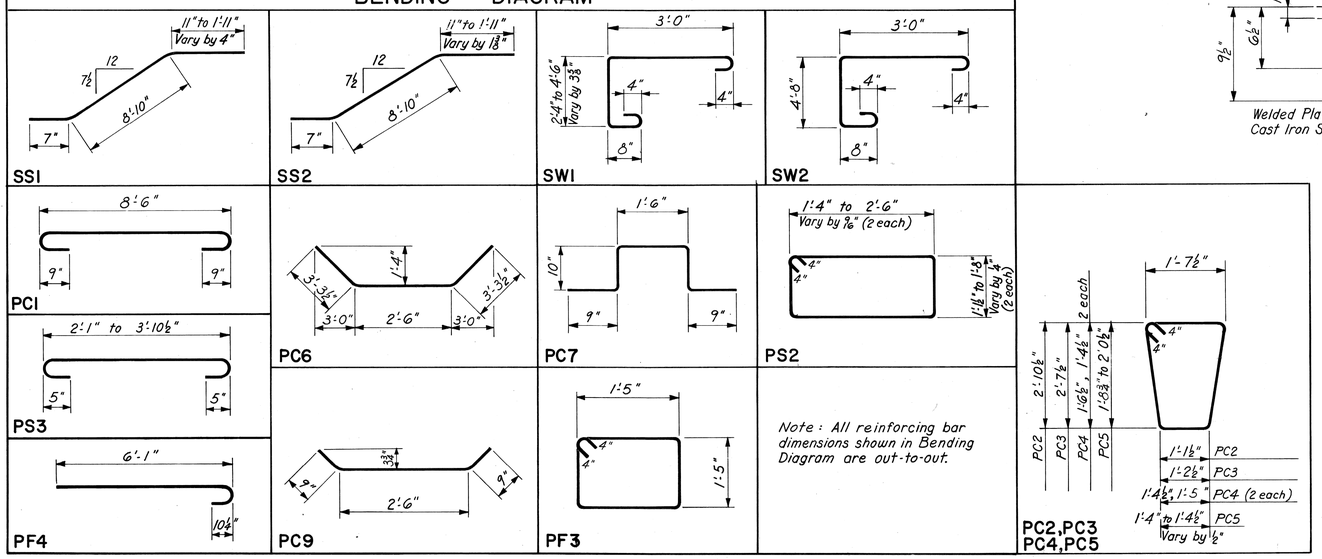


SECTION "A-A"
Not to Scale



SECTION "B-B"
Not to Scale

BENDING DIAGRAM



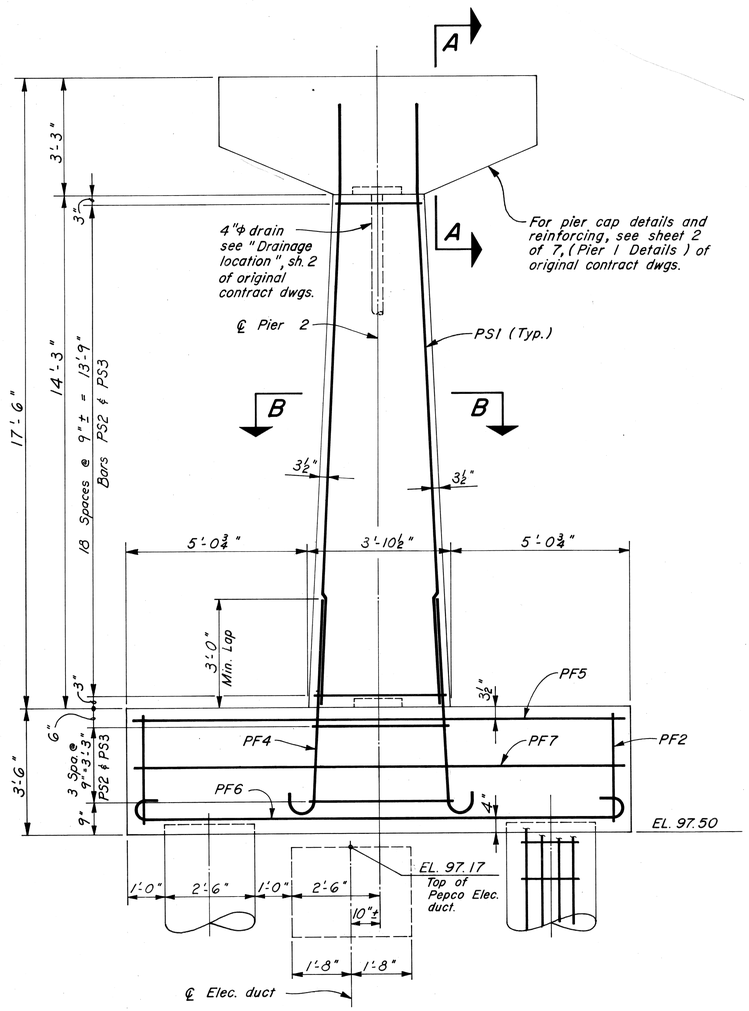
Note: All reinforcing bar dimensions shown in Bending Diagram are out-to-out.

PEDESTRIAN OVERPASS

OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN · ARLINGTON, VIRGINIA

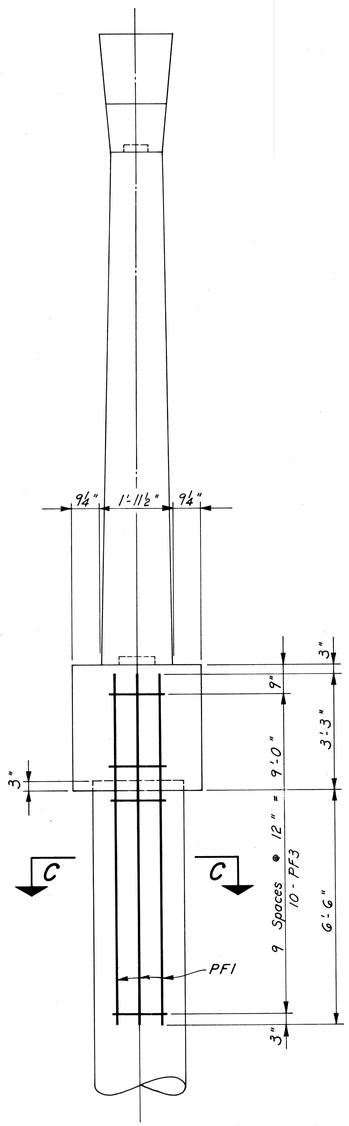
REINFORCING STEEL SCHEDULE
SCUPPER DETAILS, BORING INFORMATION

3-3



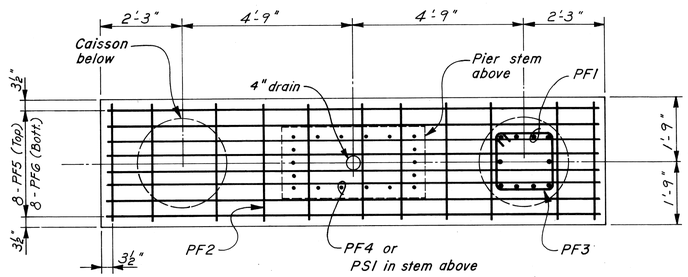
ELEVATION

Scale : ½" = 1'-0"



CAISSON REINFORCING

Scale : ½" = 1'-0"



FOOTING PLAN

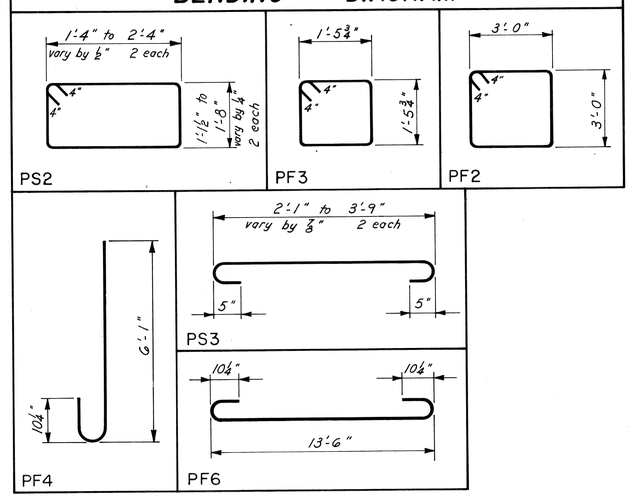
Scale : ½" = 1'-0"

REINFORCING STEEL SCHEDULE

PIER 2

PS1	18	#9	16'-9"	–	Stem
PS2	46	5	4'-11" to 8'-0"	2½"Φ	Stem & Footing
PS3	46	5	3'-3" to 4'-11"	3¾"Φ	Stem & Footing
PF1	20	9	9'-9"	–	Caisson
PF2	11	5	12'-1"	2½"Φ	Footing
PF3	20	4	6'-3"	2"Φ	Caisson
PF4	18	9	7'-4"	9"Φ	Footing
PF5	8	7	13'-6"	–	Footing
PF6	8	9	16'-0"	9"Φ	Footing
PF7	2	6	13'-6"	–	Footing

BENDING DIAGRAM



NOTE : For section "A-A", "B-B", "C-C" and other details not shown, see sheet 2 of the original contract drawings.

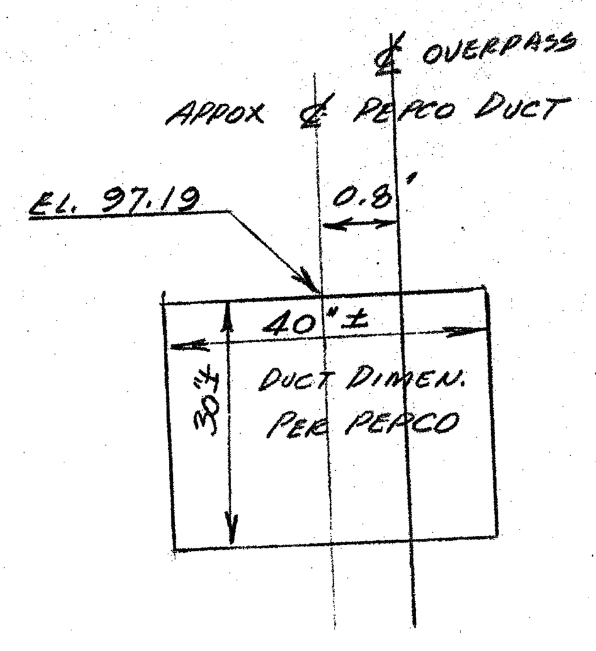
For general notes, see original contract dwgs.

PEDESTRIAN BRIDGE
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN, ARLINGTON, VIRGINIA

REVISED DETAILS - PIER 2

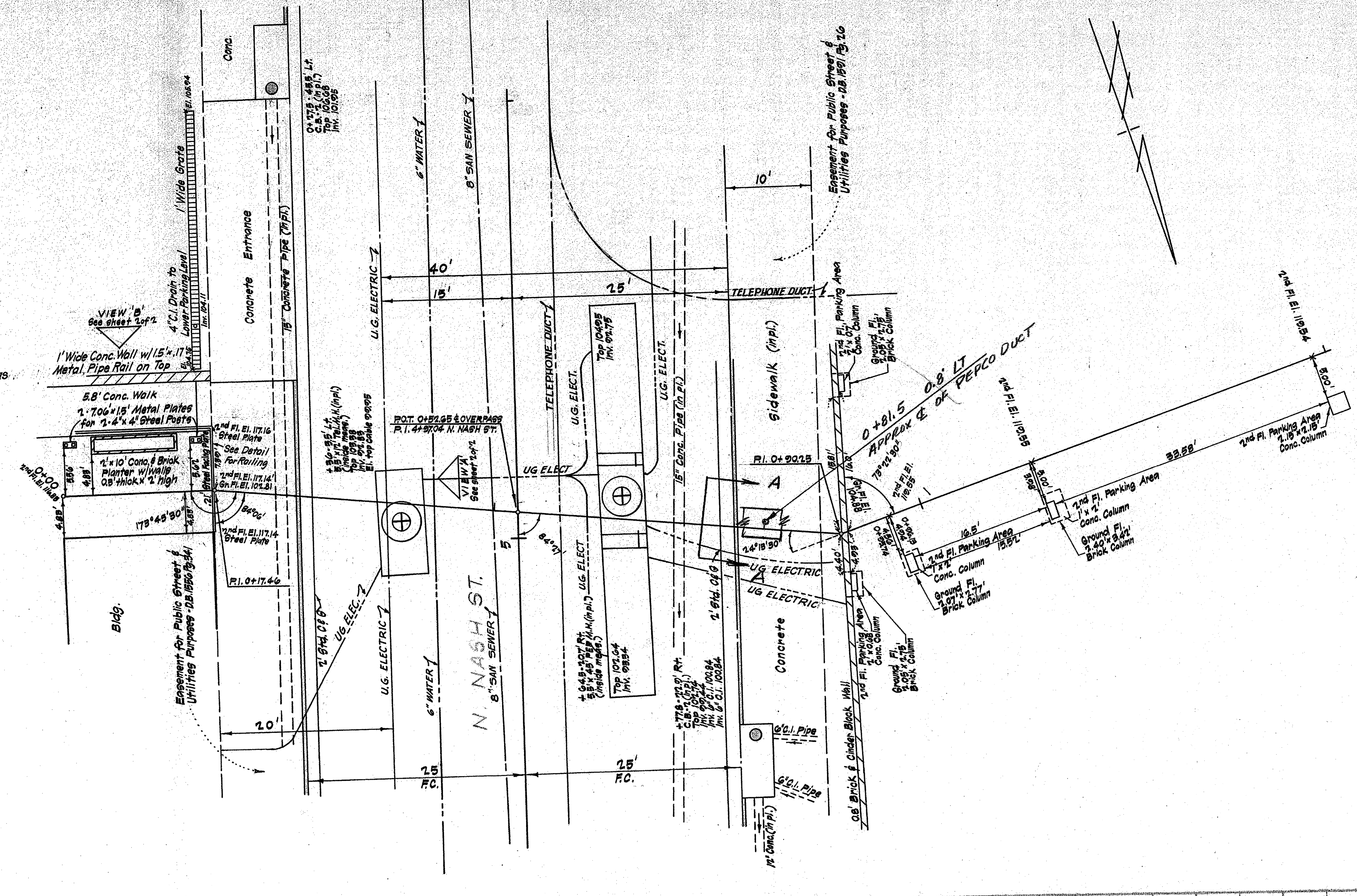
Prepared by
L.T. DELYANNIS & ASSOCIATES
Arlington, Virginia

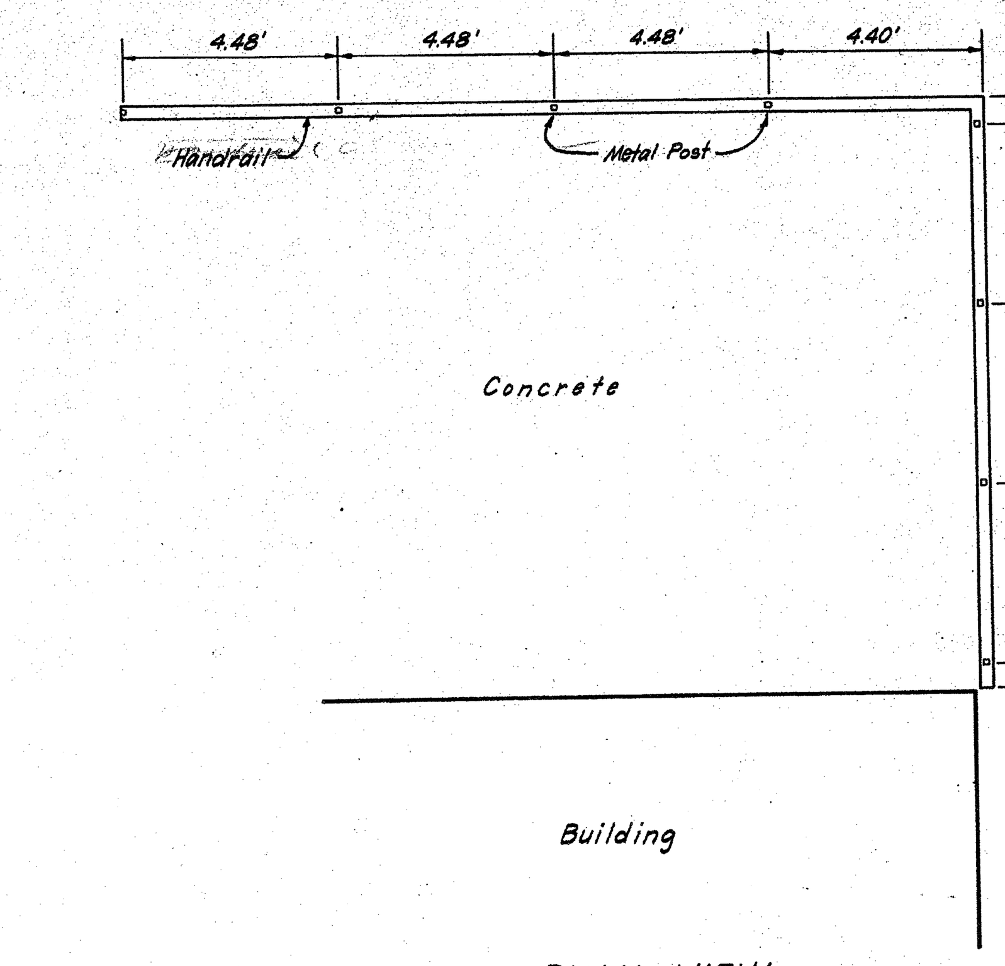
PLAN	BY	DATE
SURVEYED	Farmer	6-29-71
PLOTTED	Gelberg	7-29-71
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK NO. 1721-54 (602-15 R) 1888-25		



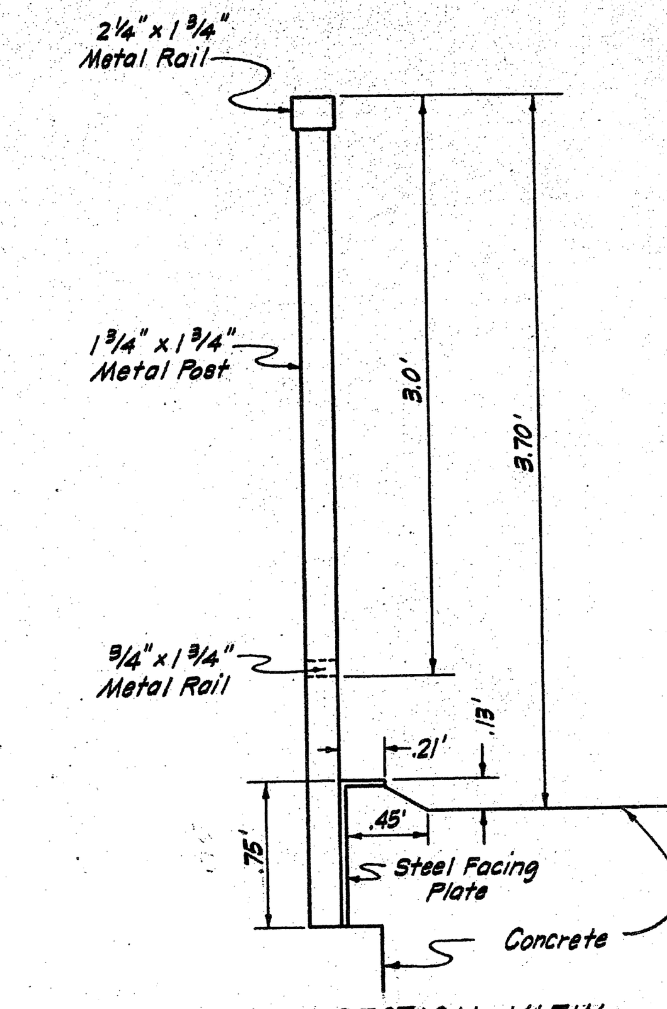
SECTION A-A

SCALE 1" = 2.0'





PLAN VIEW
Scale 1"=4'

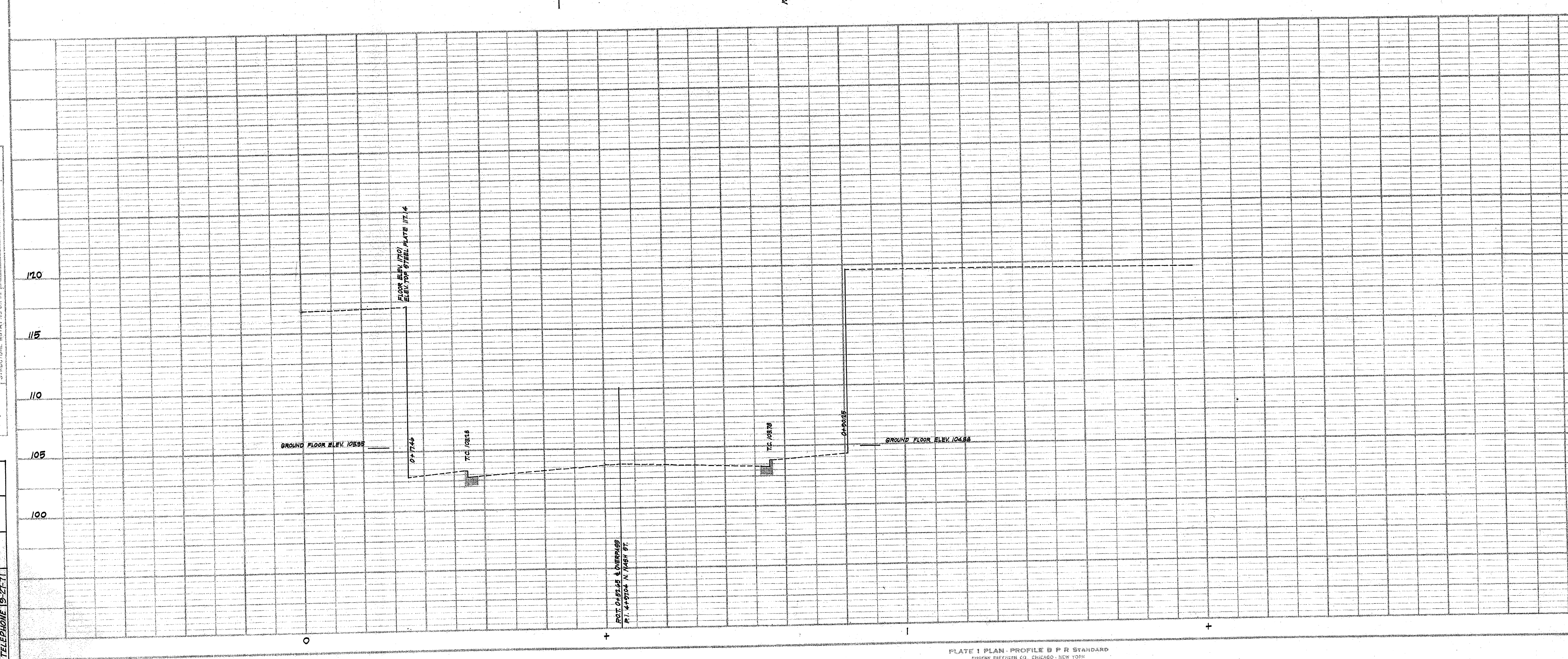


SECTION VIEW
Scale 1"=1'

RAILING DETAILS

PROFILE	BY	DATE
SURVEYED	Farmer	7-1-71
PLOTTED	Gelberg	8-3-71
GRADES CHECKED		
B.M.s NOTED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO. 1721-59		

	7-1-71
	9-1-71
	NO-9-23-71
ELECTRIC	9-13-71
TELEPHONE	9-27-71



ARLINGTON, VIRGINIA
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF HIGHWAYS

PEDESTRIAN OVERPASS
N. NASH ST. SOUTH OF KEY BLVD.

SCALE HOR. 1"=10' VER. 1"=5'	DRAWN ALG	DESIGNED	TRACED	CHECKED
SUBMITTED	APPROVED		APPROVED	
	HIGHWAY ENGINEER		DIRECTOR OF PUBLIC SERVICE	
DATE	DATE		DATE	

	Pedestrian Overpass	Sheet 1 of 2	Printed in U.S.A. On IMPERIAL Tracing Cloth

3-3

ARLINGTON, VIRGINIA
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF HIGHWAYS

PROPOSED
PEDESTRIAN BRIDGE
CROSSING
N. NASH STREET
@ KEY BLVD.

SCALE HOR. 1" = 10' VERT.	DRAWN A R C	DESIGNED	TRACED	CHECKED

SUBMITTED	APPROVED	APPROVED
	HIGHWAY ENGINEER	DIRECTOR OF PUBLIC SERVIC
DATE	DATE	DATE

3-3

PLAN		BY	DATE
NOTE BOOK NO. 1204 1209	SURVEYED	Bishop	1-29-65
	PLOTTED	Courtney	2-23-65
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

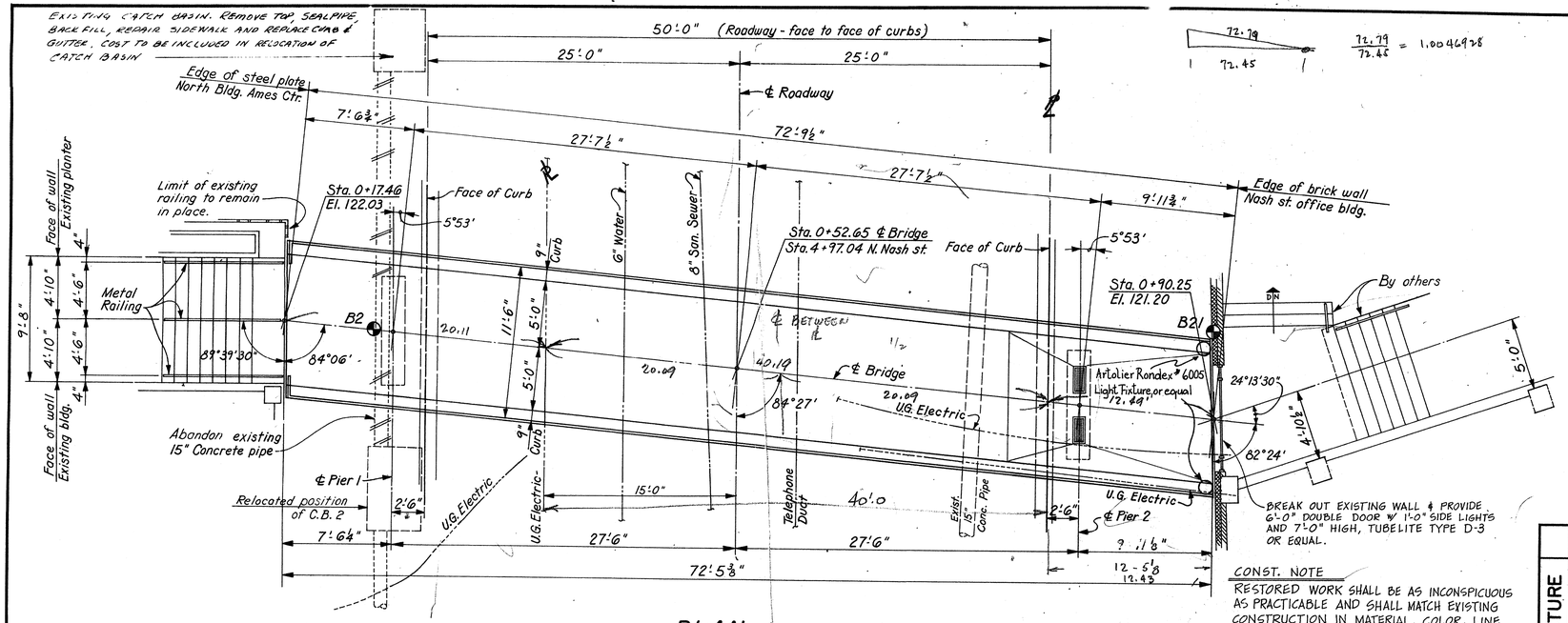
ARLINGTON, VIRGINIA
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF HIGHWAYS

PROPOSED
PEDESTRIAN BRIDGE
CROSSING
N. NASH STREET
@ KEY BLVD.

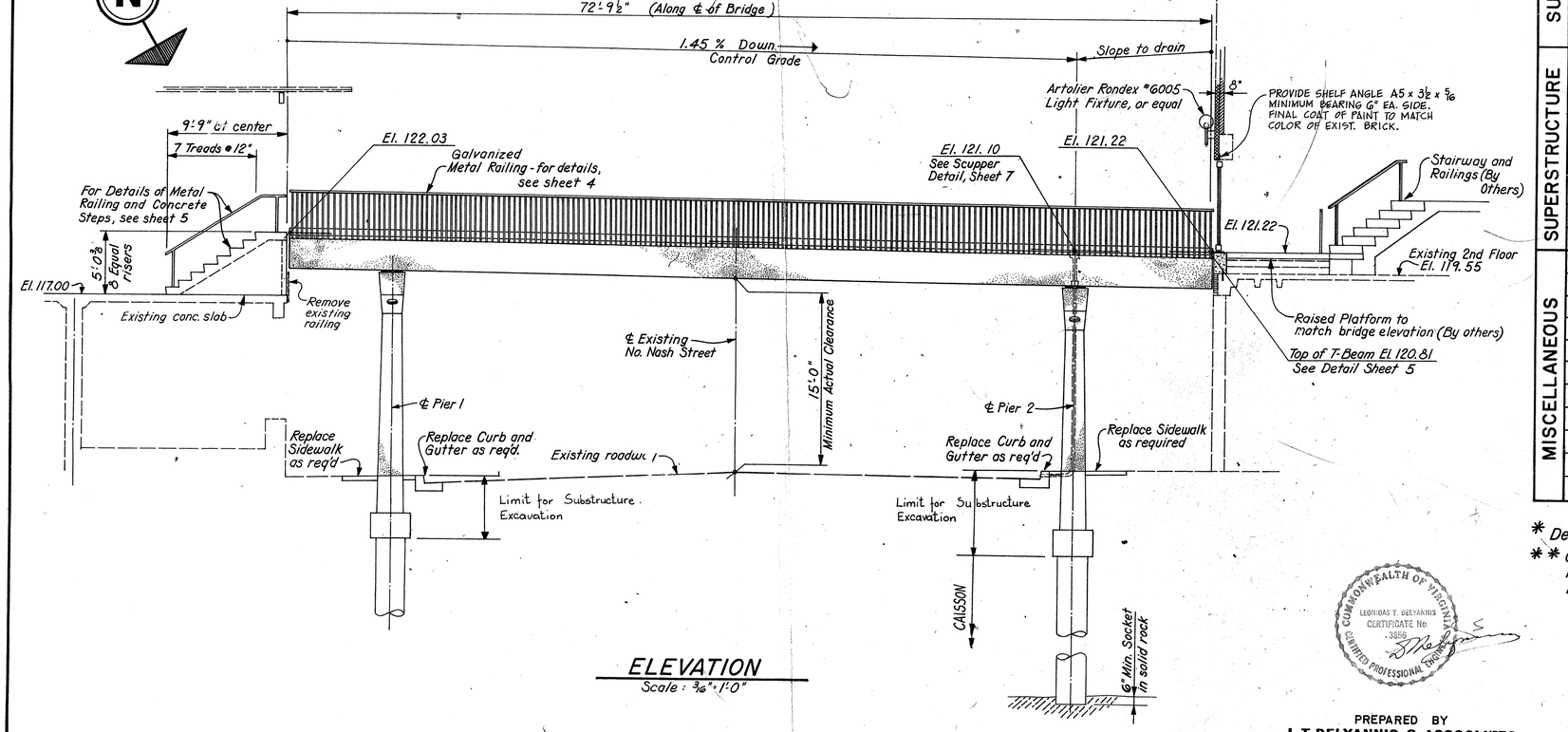
SCALE HOR. 1" = 10' VERT.	DRAWN ARC	DESIGNED	TRACED	CHECKED

SUBMITTED	APPROVED	APPROVED
	HIGHWAY ENGINEER	DIRECTOR OF PUBLIC SERVICE
DATE	DATE	DATE

3-3



PLAN
Scale : 3/16" = 1'-0"



ELEVATION
Scale : 3/16" = 1'-0"

GENERAL NOTES

SPECIFICATIONS:

GENERAL – Arlington County Department of Transportation "Street and Storm Sewer Specifications", 1968. Virginia Department of Highways "Road and Bridge Specifications", and Supplemental Specifications & Special Provisions, 1970.

DESIGN – A.A.S.H.O. "Standard Specifications for Highway Bridges", 1969, and Interim Specifications, 1970, 1971 and 1972.

ELECTRICAL – National Safety Code; National Electrical Code; Requirements of Local building code and power company.

PRESTRESSING STRANDS – AASHO M203 (ASTM A416)

REINFORCING BARS ——— AASHO M31 (ASTM A615)

W. WIRE MESH ——— AASHO M55 (ASTM A185)

PRESTRESSED CONCRETE – Minimum Strength at 28 days, 6000 p.s.i.

CONCRETE – Minimum Strength at 28 days, 3000 p.s.i.

STRUCTURAL STEEL ——— A.S.T.M. A-36

DESIGN LIVE LOAD – 150 p.s.f.

FOUNDATION — Caissons shall bear on sound, undisturbed rock, having a bearing capacity of 20 tons per sq. foot.

(GENERAL NOTES Continued on sheet 2 of 7)

ESTIMATED QUANTITIES

	DESCRIPTION	UNIT	QUANTITY PIER 1	QUANTITY PIER 2
SUBSTRUCTURE	Sheeting	S. F.	270	360
	Excavation	C.Y.	12.3	15.9
	Pier Concrete Class A3	C.Y.	7.5	7.5
	Caisson Concrete Class A3	C.Y.	6.3	3.4
	Reinforcing Steel	lbs.	2915	2915
SUPERSTRUCTURE	28" T-Beams (Av. length: 72'-5½")	EA.	3	
	Handrail	L.F.	145	
	Cast-in-Place Conc. Curb & Diaphragms - Cl. A4	C.Y.	4.9	
	Concrete Deck Surfacing Class A4	S.Y.	80.5 **	
	Reinforcing Steel	lbs.	252	
	Drainage System	L.S.	—	
	Lighting System (North Bldg. Ames Ctr.)	L.S.	—	
	Lighting System (Nash St. Office Bldg.)	L.S.	—	
MISCELLANEOUS	* Stairway (conc. - east end) Class A4	C.Y.	5.2	
	* Reinforcing Steel (conc. stairs)	lbs.	540	
	* Handrail (conc. stairs)	L.S.	—	
	* Concrete Brick (under conc. stairs at east end)	S.F.	44	
	Door Cut-out	L.S.	—	
	Door Assembly	EA.	1	
	Remove Existing Railing	L.S.	—	
	Replace Conc. Curb and Gutter	L.F.	30	
	Replace Sidewalk	S.Y.	30	
	Relocate Catch Basin	L.S.	—	

* Deletable bid items

** Cost of W.W. Mesh to be included with "Concrete Deck Surfacing, Class A4"

COMMONWEALTH OF VIRGINIA — LEONIDAS T. DELYANNIS CERTIFICATE No. 3856 — CERTIFIED PROFESSIONAL ENGINEER

PREPARED BY
L.T. DELYANNIS & ASSOCIATES
ARLINGTON, VIRGINIA

Sheet 1 of 7

ARLINGTON, VIRGINIA
DEPARTMENT OF TRANSPORTATION

2632

PEDESTRIAN OVERPASS
OVER N. NASH STREET, SO. OF KEY BLVD.
ROSSLYN · ARLINGTON, VIRGINIA

SCALE As Noted	DRAWN J.P.	DESIGNED V.L.	TRACED J.P.	CHECKED L.T.D.
SUBMITTED	APPROVED Emerson F. Hemshaw ASS'T. HIGHWAY ENGINEER		APPROVED A.S. Mulmon DIRECTOR OF TRANSPORTATION	
DATE	DATE Feb. 25, 1974		DATE 2-26-74	

CONTRACT H-263

OFFICE COPY

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Fanner	7-1-71
	PLOTTED	Gelberg	8-5-71
NOTE BOOK	TEMPLATE		
	AREAS		
NO. 1721-52	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

#0001 N. NASH ST.
PEDOVER PASS

0001

K+E PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO.
48 7052 MADE IN U.S.A. 29143

PEDESTRIAN OVERPASS
N. Nash St. South of Key Blvd.