SUBMITTED TO:
Mr. Christopher Vitz P.E.
County Engineer
County of Morris

MORRIS COUNTY
BOARD OF COUNTY COMMISSIONERS
PLANS FOR
REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL
FEDERAL PROJECT NO. XXX-XXXX (###)

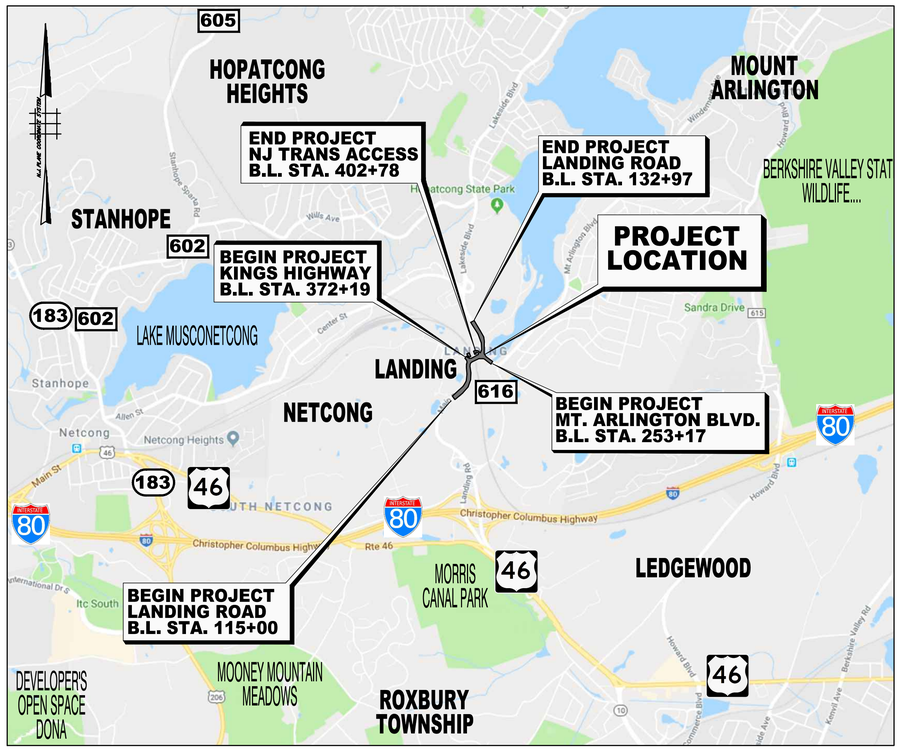
TOWNSHIP OF ROXBURY, MORRIS COUNTY
OCTOBER 2022

INDEX OF DRAWINGS

SHEET No.	DESCRIPTION	SHEET No.	DESCRIPTION
1	COVER SHEET	32-33	TIES
2	ESTIMATE OF QUANTITIES	34-39	GRADES
3-9	TYPICAL SECTIONS	40-64	TRAFFIC CONTROL AND STAGING PLANS
10	PLAN SHEET INDEX		
11	GENERAL NOTES AND CONSTRUCTION LEGEND	65-71	ELECTRICAL PLANS AND DETAILS
		72	BRIDGE LIGHTING PLAN
12-17	CONSTRUCTION PLANS	73-78	TRAFFIC SIGNING AND STRIPING
18-24	DRAINAGE PLANS	79-105	CROSS SECTIONS
25-27	ENVIRONMENTAL & SESC PLANS	106-119	CONSTRUCTION DETAILS
28-31	PROFILES	120-173	STRUCTURES PLANS

UTILITIES

Altice (formerly Cablevision)	Cablevision 275 Centennial Ave Piscataway, NJ 08854 973.659.2470 (o)
AT&T	AT&T 50 Patricia Dr Flanders, NJ 07836 914.397.3744 (o)
JCP&L	JCP&L 101 Crawford's Corner Rd, Building #1, Suite 1-511 Holmdel, NJ 07733 732.212.4262 (o), 330.245.5635 (f)
Musconetcong Sewerage Authority	Musconetcong Sewerage Authority 110 Continental Dr Budd Lake, NJ 07828 973.347.1525 ex 203 (o), 973.347.8356 (f)
NJ Natural Gas Co.	NJ Natural Gas co 1415 Wyckoff Rd Wall, NJ 07719 732.938.1030 (o), 732.919.7854 (f)
Township of Roxbury (Sanitary Sewer)	Township of Roxbury Water & Sewer 1715 Route 46, Water & Sewer Dept Ledgewood, NJ 07852 973.448.2018 (o)
Township of Roxbury (Water)	Township of Roxbury Water & Sewer 1715 Route 46, Water & Sewer Dept Ledgewood, NJ 07852 973.448.2018 (o)
Verizon Communications	Verizon Communications 290 W Mt. Pleasant Ave, Bldg 4 Ground FL Livingston, NJ 07039 973.422.5115 (o), 800.610.9905 (f)



KEY MAP
SCALE: 1" = 2000'

TOTAL PROJECT LENGTH = 2600 LINEAR FEET OR 0.49 MILES

NEW JERSEY DEPARTMENT OF TRANSPORTATION 2019 U.S. CUSTOMARY ENGLISH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH AMENDMENTS AND SPECIAL PROVISIONS TO GOVERN.

DESIGN TRAFFIC DATA

LANDING ROAD	
ADT (2018) - 2 WAY	= 20,242
ADT (2038) - 2 WAY	= 27,263
T	= 3%
V	= 30 MPH

KINGS HIGHWAY	
ADT (2018) - 2 WAY	= 796
ADT (2038) - 2 WAY	= 1,072
T	= 6%
V	= 30 MPH

MOUNT ARLINGTON BOULEVARD	
ADT (2018) - 2 WAY	= 8,577
ADT (2038) - 2 WAY	= 11,552
T	= 4%
V	= 40 MPH

LAKESIDE BOULEVARD	
ADT (2018) - 2 WAY	= 23,479
ADT (2038) - 2 WAY	= 31,624
T	= 3%
V	= 35 MPH

NJ TRANSIT ACCESS ROAD	
ADT (2018) - 2 WAY	= 225
ADT (2038) - 2 WAY	= 305
T	= 1%
V	= 30 MPH

NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS ROADWAY-TRAFFIC CONTROL-BRIDGE 2016 BOOKLET IS APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

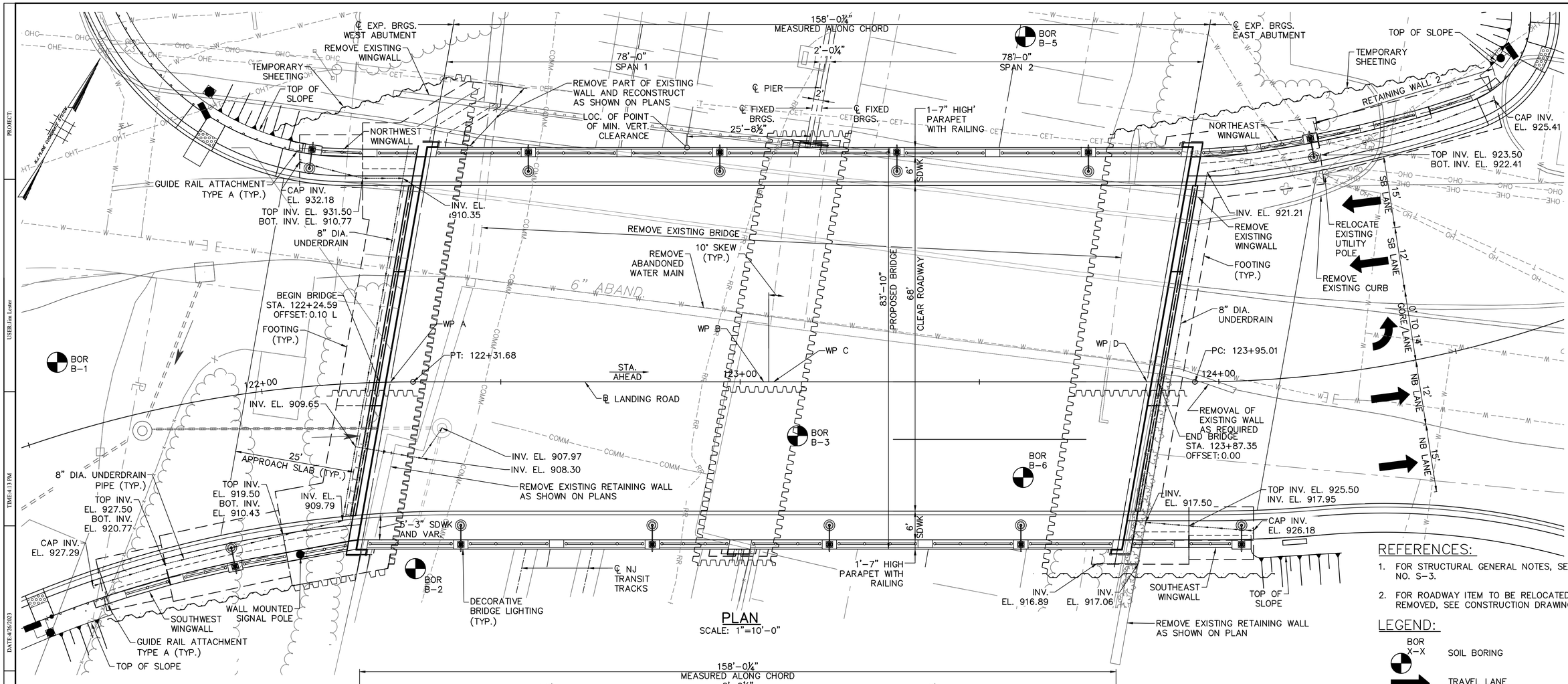
PREPARED AND RECOMMENDED BY:

_____ Date: _____
Sandeep R. Singh, P.E.
T.Y. Lin International

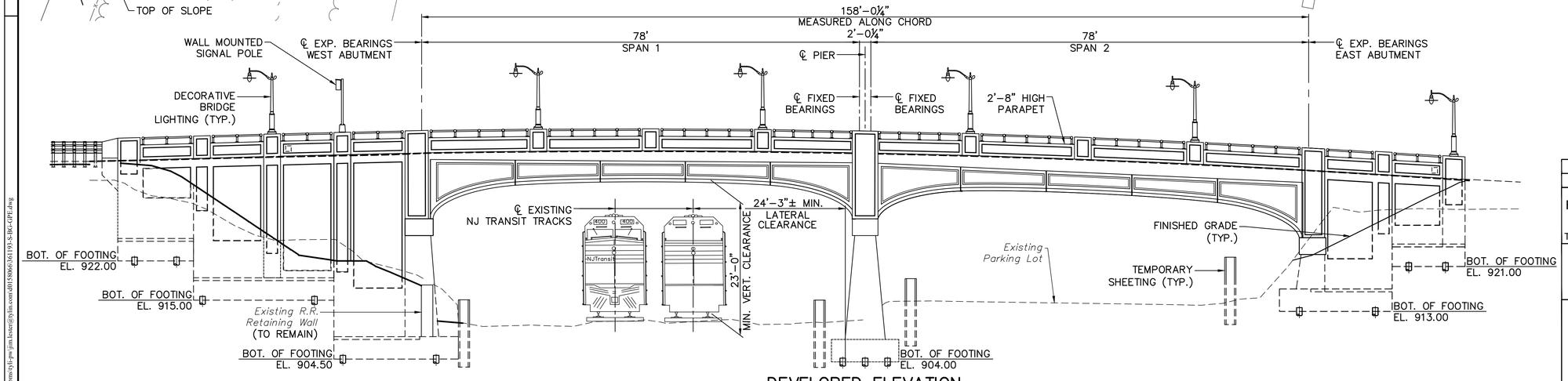
_____ Date: _____
Recommended for Approval,
County Engineer

_____ Date: _____
Recommended for Approval,
Assistant County Engineer

_____ Date: _____
Approved by the Board of County Commissioners,
Director



PLAN
SCALE: 1"=10'-0"



DEVELOPED ELEVATION
SCALE: 1"=10'-0"

REFERENCES:

1. FOR STRUCTURAL GENERAL NOTES, SEE DWG. NO. S-3.
2. FOR ROADWAY ITEM TO BE RELOCATED OR REMOVED, SEE CONSTRUCTION DRAWINGS.

LEGEND:

- BOR X-X — SOIL BORING
- TRAVEL LANE
- TEMPORARY SHEETING
- TEMPORARY SHEETING LEFT IN PLACE

GRAPHIC SCALE 0 10' 20' 1"=10'

S-4 / S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL

Township of Roxbury — Morris County — New Jersey

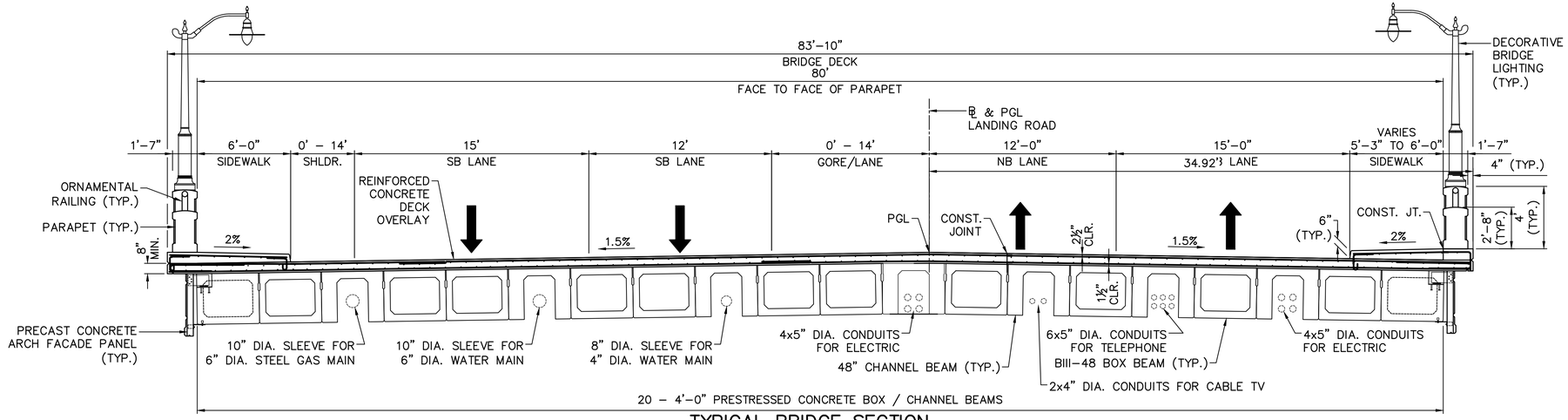
BRIDGE GENERAL PLAN AND ELEVATION

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

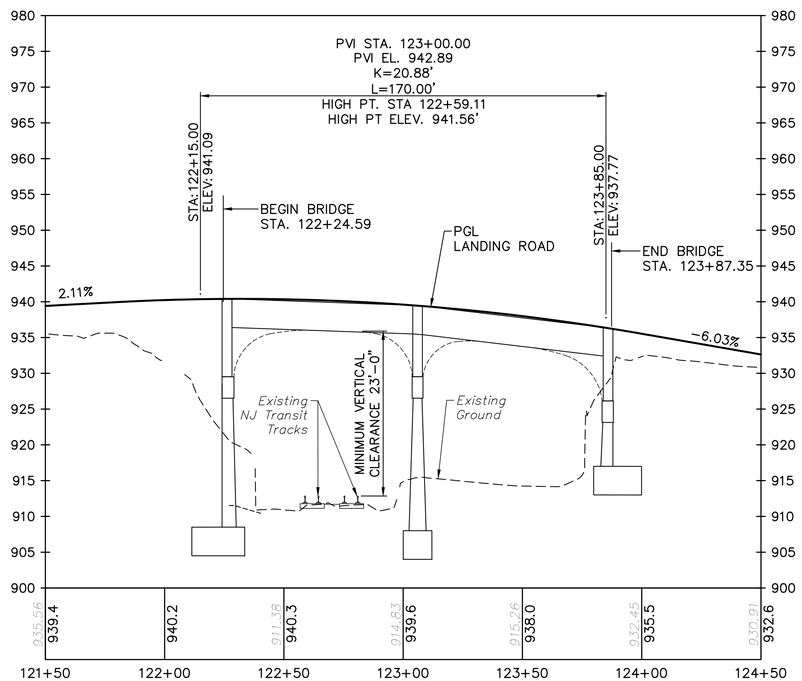
Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: JPL
Sheet #: 123 of 175

TY LIN INTERNATIONAL
FILE: C:\Users\jbester\pw\jim.bester@tylin.com\d0158066\361193-S-BG-GPE.dwg
TIME: 4:13 PM
DATE: 4/20/2023
USER: Jim Lester
PROJECT:



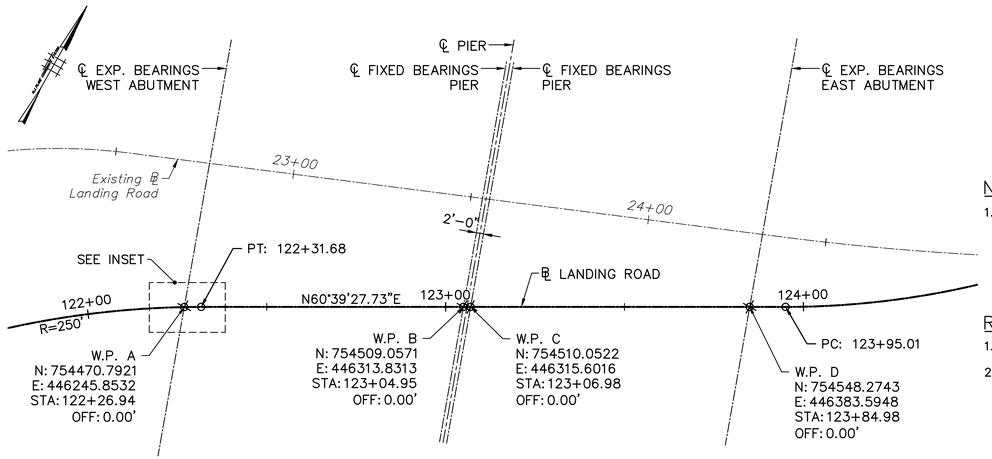
TYPICAL BRIDGE SECTION

SCALE: ¼"=1'-0"



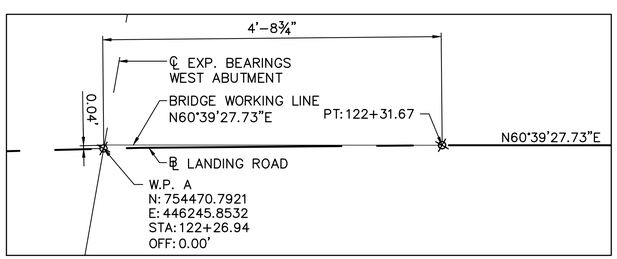
PROFILE

HORIZONTAL SCALE: 1"=30'-0"
VERTICAL SCALE: 1"=10'-0"



WORKING POINT LAYOUT

SCALE: 1"=20'-0"



INSET

NOT TO SCALE

NOTE:

1. WORKING POINT A (W.P. A) IS TO BE USED TO CONSTRUCT THE WEST ABUTMENT AND BRIDGE ONLY. THE CONSTRUCTION OF THE NORTHWEST WINGWALL AND SOUTHWEST WINGWALL ARE TO BE BUILT OFF ℄ LANDING ROAD.

REFERENCES:

1. FOR GENERAL PLAN AND ELEVATION, SEE DWG. NO. S-4.
2. FOR NORTHWEST WINGWALL PLAN AND SOUTHWEST WINGWALL PLAN, SEE DWG. NOS. S-20 AND S-21 RESPECTIVELY.

GRAPHIC SCALE
1' 0 4' 8'
¼"=1'-0"

GRAPHIC SCALE
0 20' 40'
1"=20'

GRAPHIC SCALE
0 30' 60'
1"=30'

S-5
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL

Township of Roxbury — Morris County — New Jersey

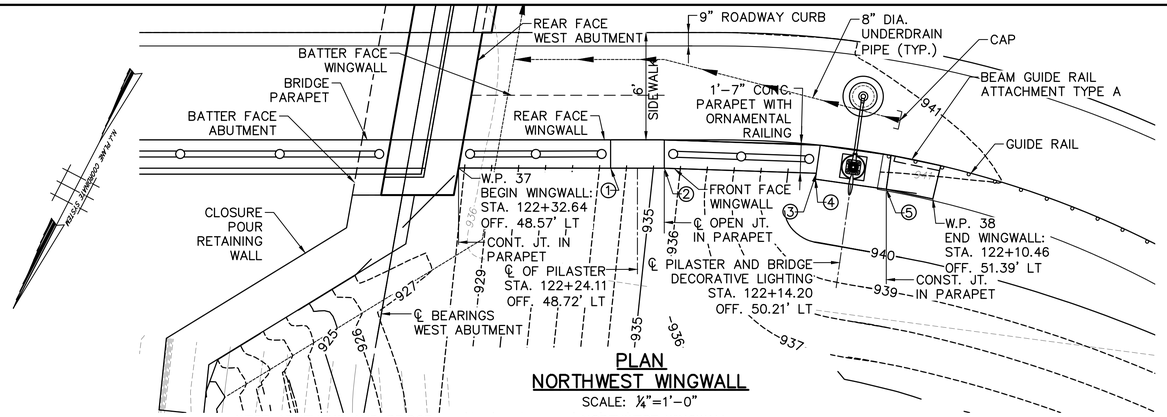
TYPICAL BRIDGE SECTION, PROFILE AND WORKING POINT LAYOUT

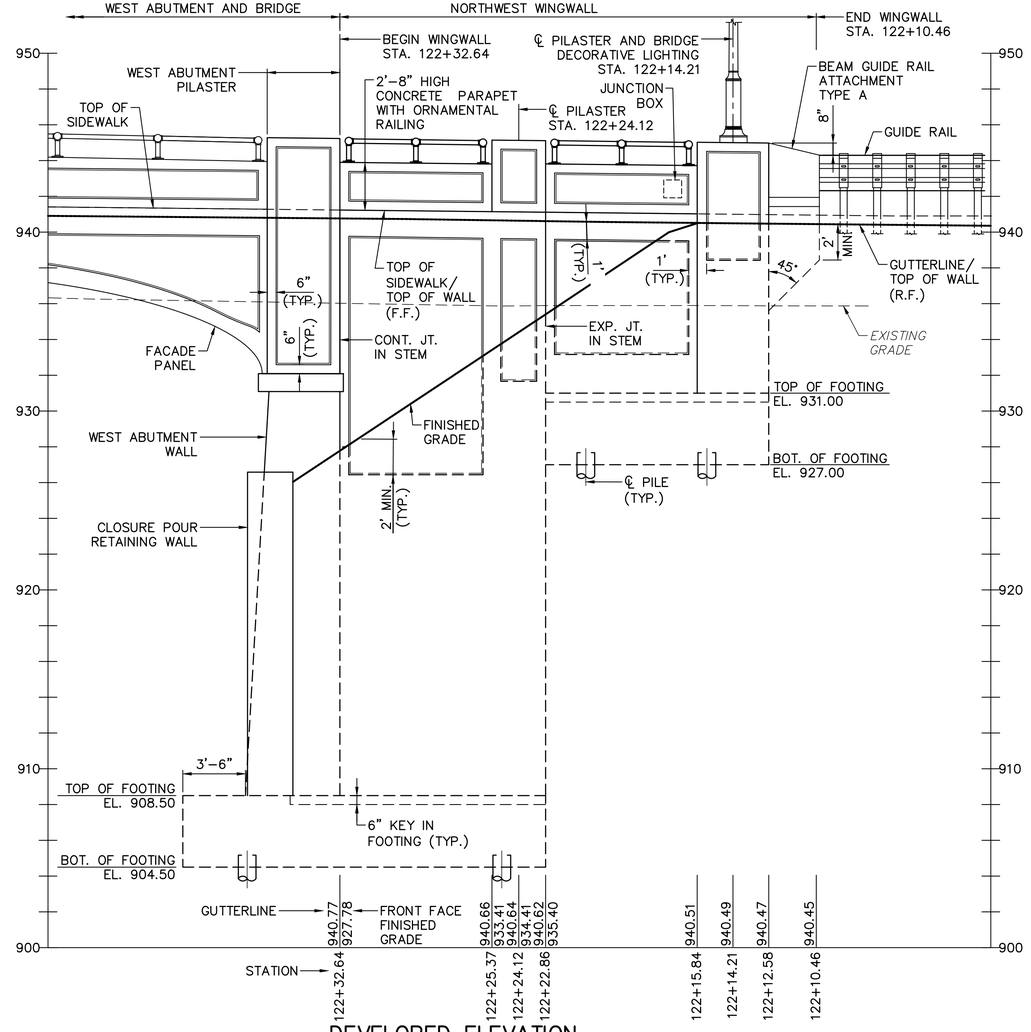
TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: JPL
Checked By: SIB
Sheet #: 124 of 175

PROJECT:
USER:Jim Lester
TIME:4:13 PM
DATE:4/26/2023
TY LIN INTERNATIONAL
FILE: C:\Jims\OJ-pw~jim.lester@dfn.com#d158866\361193-S-PR-WP.dwg





WORKING POINT DATA				
LOCATION	℄ STATION	OFFSET	NORTHING	EASTING
W.P. 1	STA. 122+32.64	48.57' LT	754515.9671	446226.9963
W.P. 2	STA. 122+10.46	51.39' LT	754504.4823	446203.0406

* DATA AT POINTS DEFINED IN PLAN		
LOCATION	℄ STATION	OFFSET
1	STA. 122+25.37	48.68' LT
2	STA. 122+22.86	48.77' LT
3	STA. 122+15.78	49.47' LT
4	STA. 122+15.84	49.80' LT
5	STA. 122+12.58	50.64' LT

* ALL STATIONS AND OFFSETS ARE TAKEN OFF THE LANDING ROAD BASELINE AND MEASURED TO THE FRONT FACE OF THE WALL.

REFERENCES:

1. FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS, SEE DWG. NO. S-3.
2. FOR WINGWALL REINFORCEMENT LAYOUT, SEE DWGS. NO. S-24 AND S-25.
3. FOR WINGWALL TYPICAL SECTION AND DETAILS, SEE DWG. NO. S-26.
4. FOR WEST ABUTMENT PILE LAYOUT PLAN, SEE DWG. NO. S-9.
5. FOR WEST ABUTMENT FOOTING PLAN AND REINFORCEMENT LAYOUT, SEE DWG. NO. S-12.
6. FOR WINGWALL ARCHITECTURAL DETAILS, SEE DWG. NO. S-42.
7. FOR CLOSURE POUR RETAINING WALL, SEE DWG. NO. S-17.
8. FOR JUNCTION BOX DETAILS, SEE DWG. NO. S-42.
9. FOR WALL PAY LIMITS DETAILS, SEE DWG. NO. S-43.
10. FOR WALL ARCHITECTURE DETAILS, SEE DWG. NO. S-23.

LEGEND:

- FINISHED GRADE
- EXISTING GRADE
- GUTTERLINE
- FOOTING
- TOP OF SIDEWALK

GRAPHIC SCALE
1' 0 4' 8'
¼"=1'-0"

S-20
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL
Township of Roxbury — Morris County — New Jersey

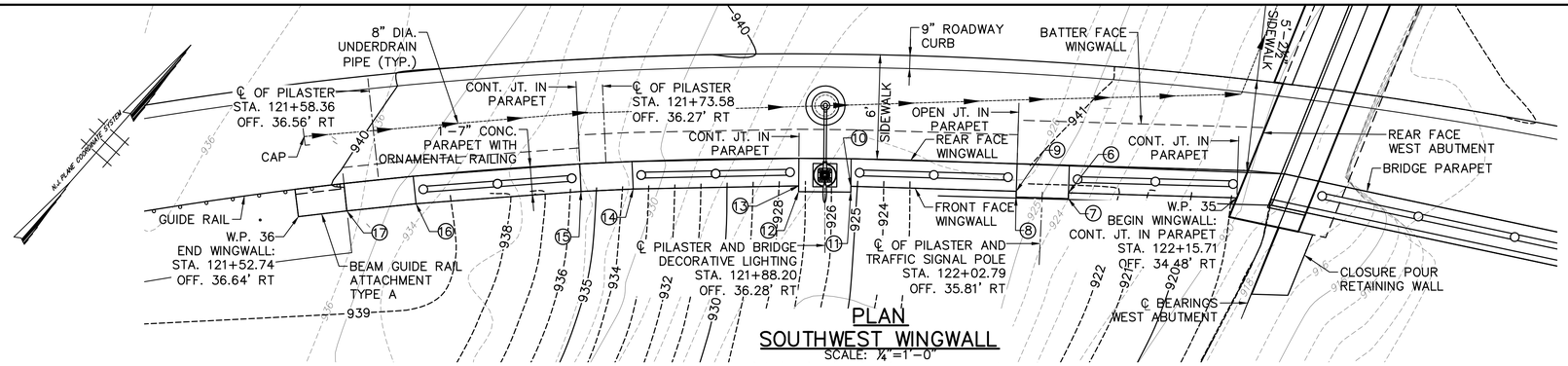
NORTHWEST WINGWALL PLAN AND DEVELOPED ELEVATION

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

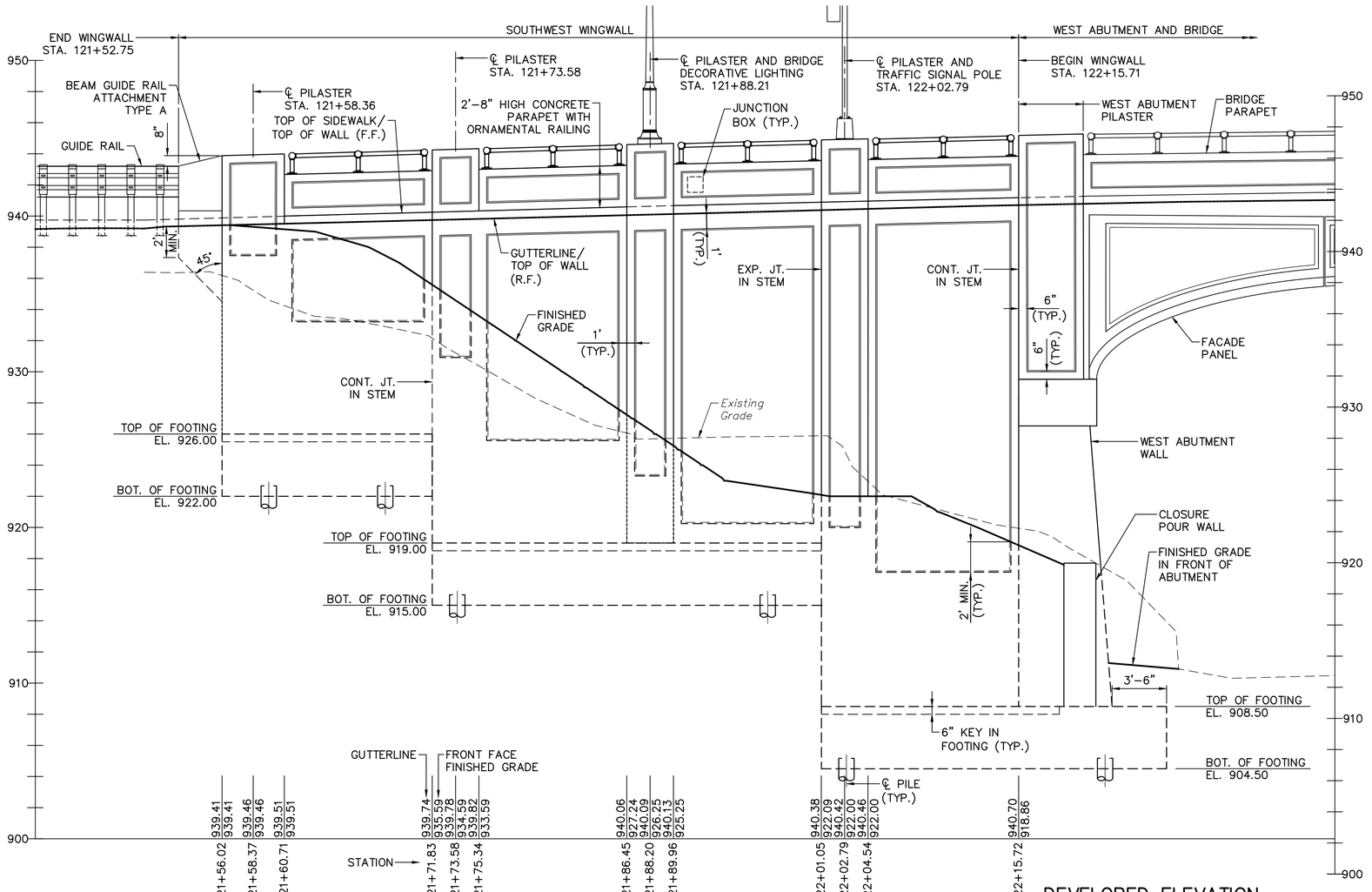
Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: HSP
Sheet #: 139 of 175

TY LIN INTERNATIONAL
FILE: C:\Users\jtl-pw-jim.lester\ty\lin.com\d0150866\361193-S-WW-PE.dwg
TIME: 4:15 PM
USER: Jim Lester
DATE: 4/26/2023
PROJECT:



PLAN
SOUTHWEST WINGWALL
SCALE: ¼"=1'-0"



DEVELOPED ELEVATION
SOUTHWEST WINGWALL
SCALE: ¼"=1'-0"

LEGEND:
- FINISHED GRADE
- EXISTING GRADE
- GUTTERLINE
- FOOTING
- TOP OF SIDEWALK

WORKING POINT DATA				
LOCATION	℄ STATION	OFFSET	NORTHING	EASTING
W.P. 1	STA. 122+15.71	34.48' RT	754435.973	446255.0756
W.P. 2	STA. 121+52.74	36.64' RT	754399.5512	446215.3330

* DATA AT POINTS DEFINED IN PLAN		
LOCATION	℄ STATION	OFFSET
⑥	STA. 122+04.51	35.38' RT
⑦	STA. 122+04.54	35.71' RT
⑧	STA. 122+01.04	35.90' RT
⑨	STA. 122+01.02	35.57' RT
⑩	STA. 121+89.94	35.90' RT
⑪	STA. 121+89.95	36.24' RT
⑫	STA. 121+86.44	36.32' RT
⑬	STA. 121+86.44	35.99' RT
⑭	STA. 121+75.33	36.23' RT
⑮	STA. 121+71.83	36.30' RT
⑯	STA. 121+60.71	36.51' RT
⑰	STA. 121+56.02	36.59' RT

* ALL STATIONS AND OFFSETS ARE TAKEN OFF THE LANDING ROAD BASELINE AND MEASURED TO THE FRONT FACE OF THE WALL.

REFERENCES:

1. FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS, SEE DWG. NO. S-3.
2. FOR WINGWALL REINFORCEMENT LAYOUT, SEE DWGS. NO. S-24 AND S-25.
3. FOR WINGWALL TYPICAL SECTION AND DETAILS, SEE DWG. NO. S-26.
4. FOR WEST ABUTMENT PILE LAYOUT PLAN, SEE DWG. NO. S-9.
5. FOR WEST ABUTMENT FOOTING PLAN AND REINFORCEMENT LAYOUT, SEE DWG. NO. S-12.
6. FOR WINGWALL ARCHITECTURAL DETAILS, SEE DWG. NO. S-42.
7. FOR CLOSURE POUR RETAINING WALL, SEE DWG. NO. S-17.
8. FOR JUNCTION BOX DETAILS, SEE DWG. NO. S-42.
9. FOR WALL PAY LIMITS DETAILS, SEE DWG. NO. S-43.
10. FOR WALL ARCHITECTURE DETAILS, SEE DWG. NO. S-23.

GRAPHIC SCALE
1' 0 4' 8'
¼"=1'-0"

S-21
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL
Township of Roxbury — Morris County — New Jersey

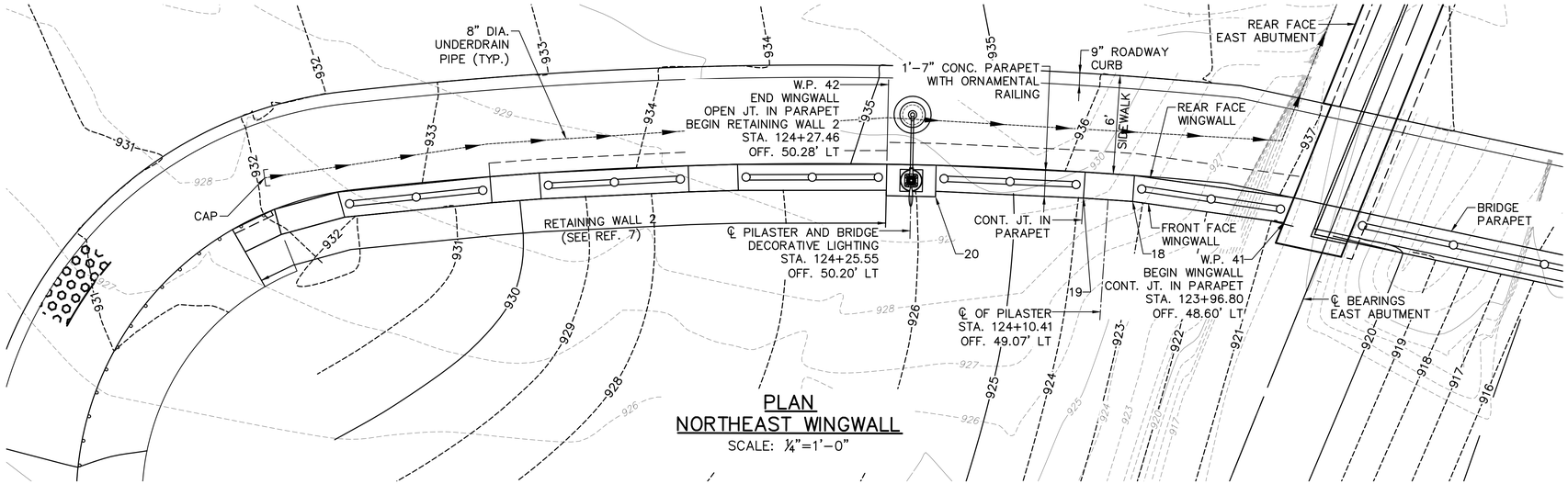
SOUTHWEST WINGWALL PLAN AND DEVELOPED ELEVATION

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

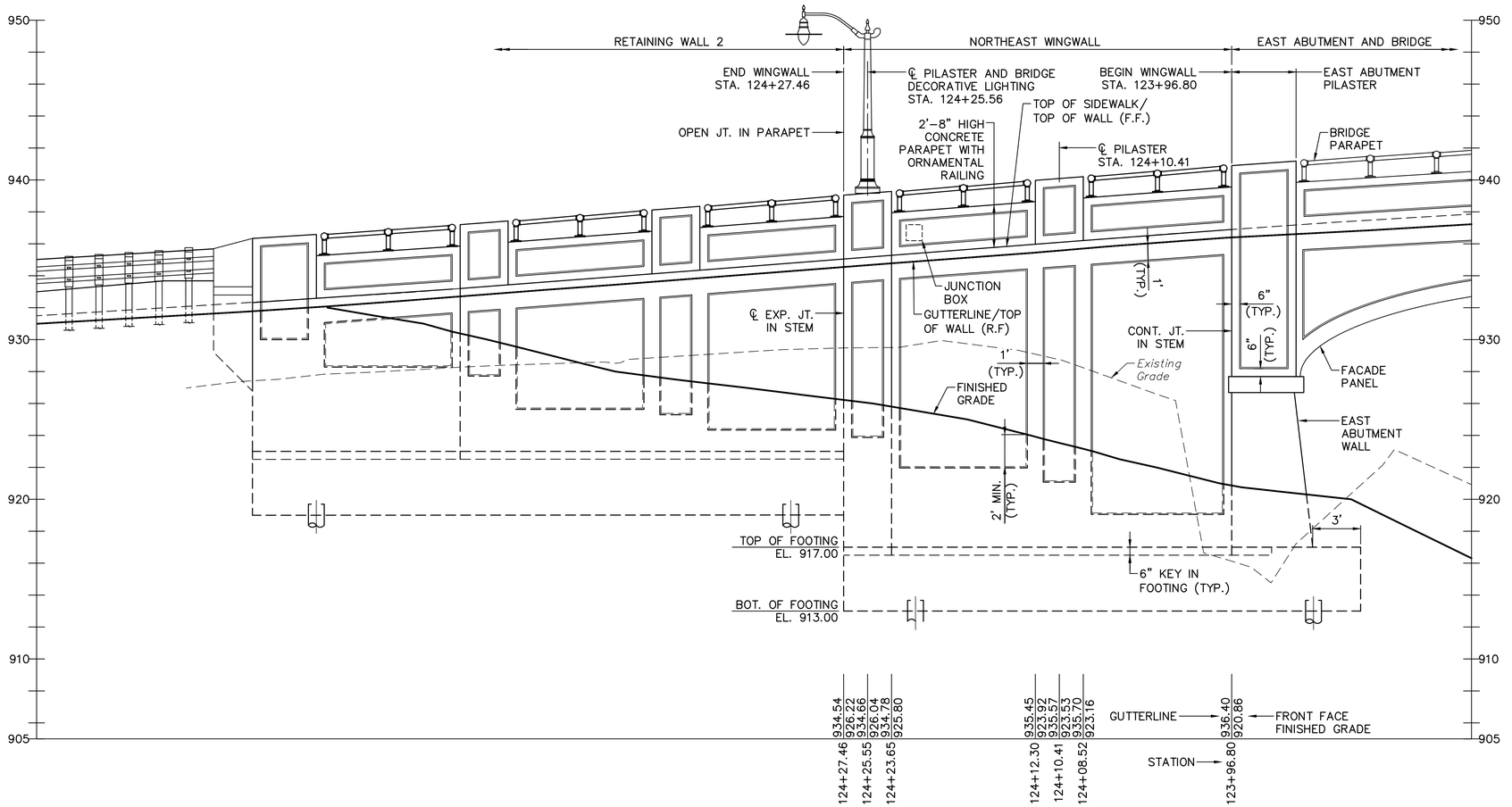
Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: HSP
Sheet #: 140 of 175

TY LIN INTERNATIONAL
PROJECT:
USER:Jim Lester
TIME:4:15 PM
DATE:4/26/2023
FILE: C:\bms\9\j-pw\jim.lester@tylin.com\d0158060.361193-S-WW-PF.dwg



PLAN
NORTHEAST WINGWALL
SCALE: ¼"=1'-0"



DEVELOPED ELEVATION
NORTHEAST WINGWALL
SCALE: ¼"=1'-0"

WORKING POINT DATA				
LOCATION	℄ STATION	OFFSET	NORTHING	EASTING
W.P. 1	STA. 123+96.80	48.60' LT	754596.2566	446369.7576
W.P. 2	STA. 124+27.46	50.28' LT	754611.0101	446388.9969

* DATA AT POINTS DEFINED IN PLAN		
LOCATION	℄ STATION	OFFSET
⑱	STA. 124+08.52	48.95' LT
⑲	STA. 124+12.30	48.95' LT
⑳	STA. 124+23.65	50.11' LT

* ALL STATIONS AND OFFSETS ARE TAKEN OFF THE LANDING ROAD BASELINE AND MEASURED TO THE FRONT FACE OF THE WALL.

REFERENCES:

1. FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS, SEE DWG. NO. S-3.
2. FOR WINGWALL REINFORCEMENT ELEVATIONS, SEE DWGS. NO. S-24 AND S-25.
3. FOR WINGWALL TYPICAL SECTION AND DETAILS, SEE DWG. NO. S-26.
4. FOR EAST ABUTMENT PILE LAYOUT PLAN, SEE DWG. NO. S-10.
5. FOR EAST ABUTMENT FOOTING PLAN AND REINFORCEMENT LAYOUT, SEE DWG. NO. S-13.
6. FOR WINGWALL ARCHITECTURAL DETAILS, SEE DWG. NO. S-42.
7. FOR RETAINING WALL 2 PLAN AND ELEVATION, SEE DWG. NO. S-47.
8. FOR JUNCTION BOX DETAILS, SEE DWG. NO. S-42.
9. FOR WALL PAY LIMITS DETAILS, SEE DWG. NO. S-43.
10. FOR WALL ARCHITECTURE DETAILS, SEE DWG. NO. S-23.

GRAPHIC SCALE
1' 0 4' 8'
¼"=1'-0"

LEGEND:
- FINISHED GRADE
- EXISTING GRADE
- GUTTERLINE
- FOOTING
- TOP OF SIDEWALK

S-22
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL
Township of Roxbury — Morris County — New Jersey

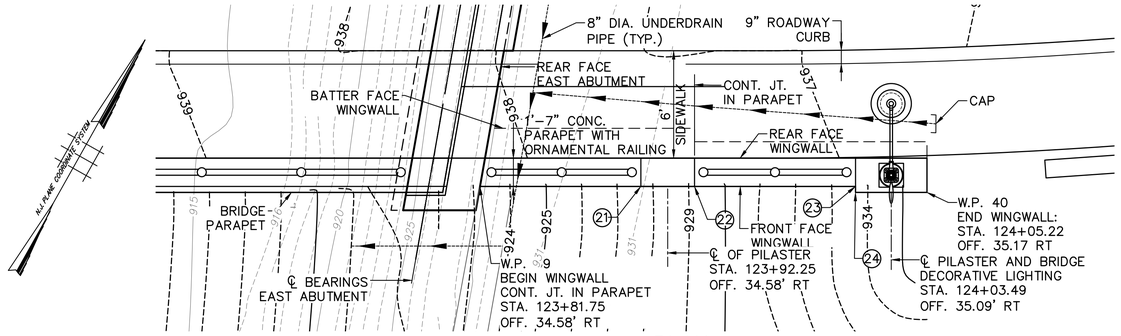
NORTHEAST WINGWALL PLAN AND DEVELOPED ELEVATION

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

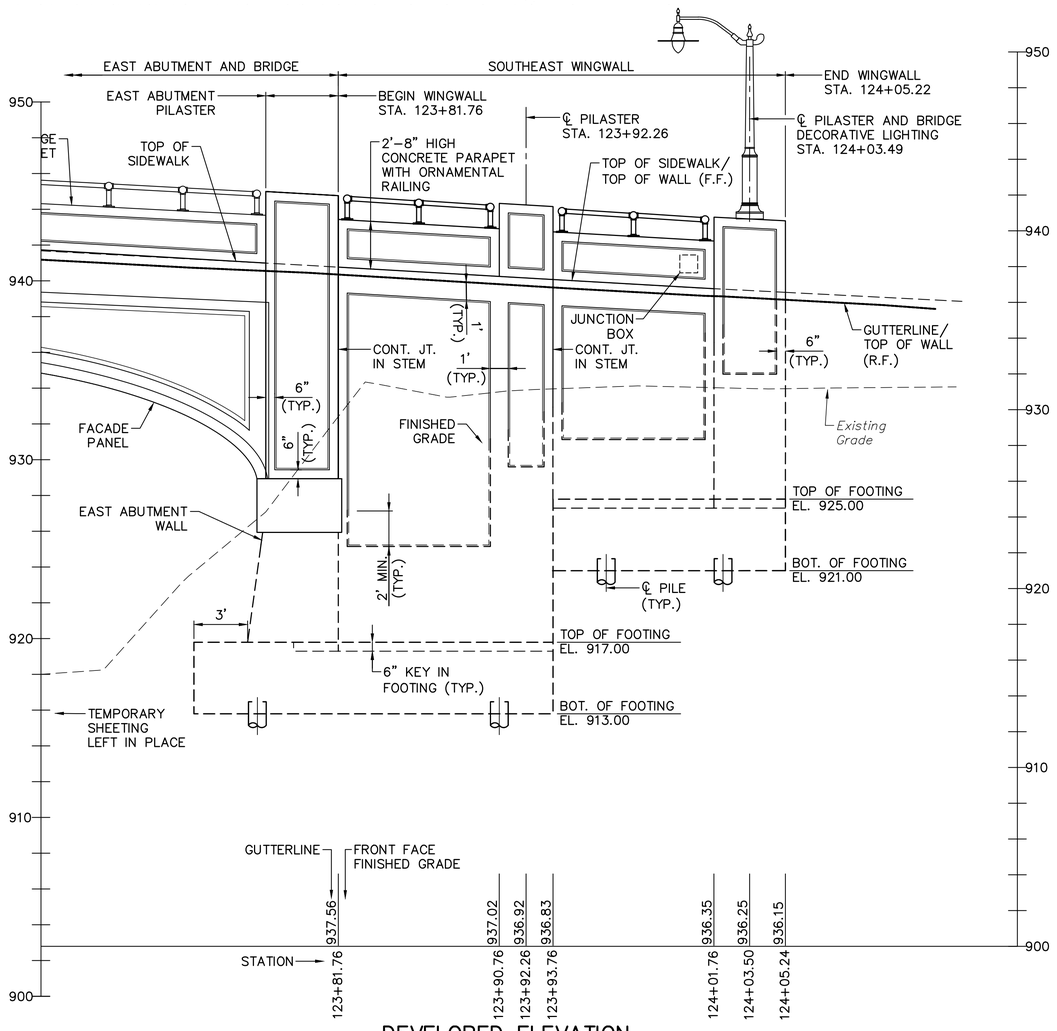
Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: HSP
Checked By: SIB
Sheet #: 141 of 175

TY LIN INTERNATIONAL
FILE: C:\bms\9\Jpw\jim.lester@tylin.com\d0158060.561193-S-WW-PE.dwg
TIME:4:15 PM
USER:Jim Lester
DATE:4/26/2023
PROJECT:



PLAN
SOUTHEAST WINGWALL
SCALE: ¼"=1'-0"



DEVELOPED ELEVATION
SOUTHEAST WINGWALL
SCALE: ¼"=1'-0"

WORKING POINT DATA				
LOCATION	℄ STATION	OFFSET	NORTHING	EASTING
W.P. 1	STA. 123+81.75	34.58' RT	754516.5456	446397.7272
W.P. 2	STA. 124+05.22	35.17' RT	754528.5026	446419.6777

* DATA AT POINTS DEFINED IN PLAN		
LOCATION	℄ STATION	OFFSET
21	STA. 123+90.75	34.58' RT
22	STA. 123+93.75	34.58' RT
23	STA. 124+01.76	34.69' RT
24	STA. 124+01.75	35.03' RT

* ALL STATIONS AND OFFSETS ARE TAKEN OFF THE LANDING ROAD BASELINE AND MEASURED TO THE FRONT FACE OF THE WALL.

REFERENCES:

1. FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS, SEE DWG. NO. S-3.
2. FOR WINGWALL REINFORCEMENT ELEVATIONS, SEE DWGS. NO. S-24 AND S-25.
3. FOR WINGWALL TYPICAL SECTION AND DETAILS, SEE DWG. NO. S-26.
4. FOR EAST ABUTMENT PILE LAYOUT PLAN, SEE DWG. NO. S-10.
5. FOR EAST ABUTMENT FOOTING PLAN AND REINFORCEMENT LAYOUT, SEE DWG. NO. S-13.
6. FOR WINGWALL ARCHITECTURAL DETAILS, SEE DWG. S-42.
7. FOR JUNCTION BOX DETAILS, SEE DWG. NO. S-42.
8. FOR WALL PAY LIMITS DETAILS, SEE DWG. NO. S-43.

LEGEND:

- FINISHED GRADE
- EXISTING GRADE
- GUTTERLINE
- FOOTING
- TOP OF SIDEWALK

GRAPHIC SCALE
1' 0 4' 8'
¼"=1'-0"

S-23 / S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL
Township of Roxbury — Morris County — New Jersey

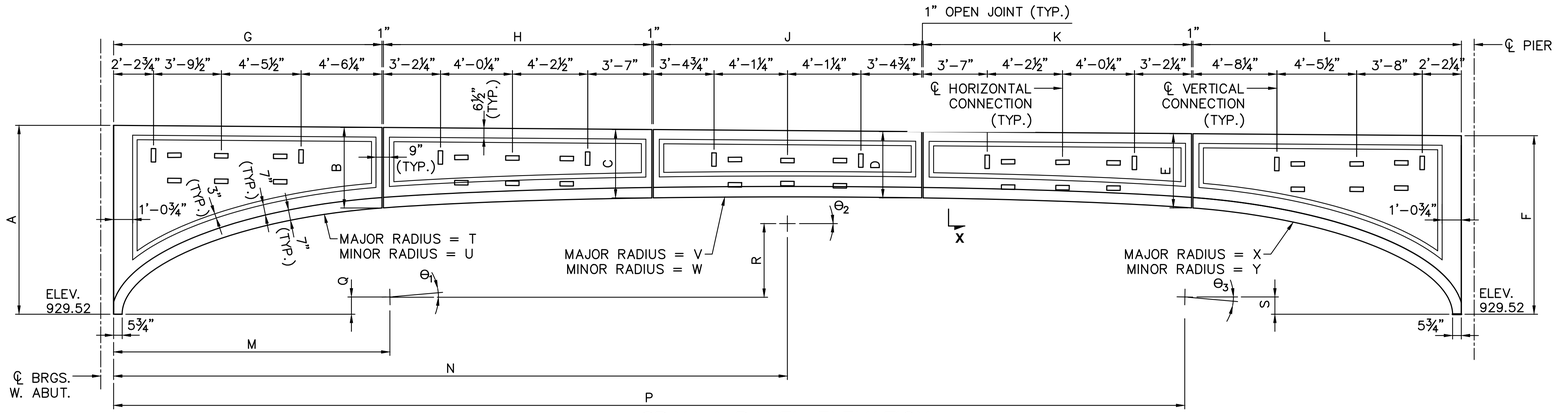
SOUTHEAST WINGWALL PLAN AND DEVELOPED ELEVATION

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

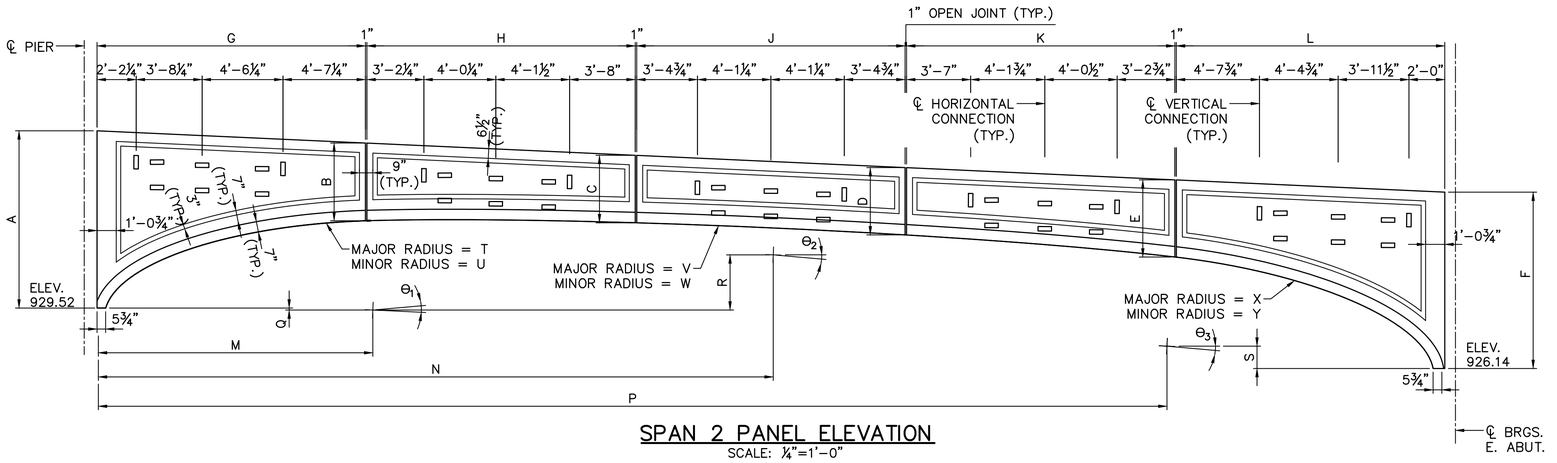
Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: HSP
Sheet #: 142 of 175

TY LIN INTERNATIONAL
FILE: C:\Users\jtl-pw-jim.lester@tylin.com\dl\158866\361193-S-WW-PE.dwg
DATE:4/26/2023
TIME:4:15 PM
USER:Jim Lester
PROJECT:



SPAN 1 PANEL ELEVATION

SCALE: ¼"=1'-0"



SPAN 2 PANEL ELEVATION

SCALE: ¼"=1'-0"

FACADE PANEL GEOMETRY TABLE		
DIM.	SPAN 1	SPAN 2
A	10'-6¾"	9'-11"
B	4'-6"	4'-4¼"
C	3'-9¾"	3'-9½"
D	3'-8½"	3'-9¼"
E	4'-1¾"	4'-3¼"
F	9'-11¾"	9'-10¼"
G	15'-0"	15'-0"
H	15'-0"	15'-0"
J	15'-0"	15'-0"
K	15'-0"	15'-0"
L	15'-0"	15'-0"
M	15'-5¼"	15'-4¾"
N	37'-8"	37'-9½"
P	59'-10½"	59'-9½"
Q	0'-11½"	0'-1¼"
R	2'-11¾"	2'-11¾"
S	2'-1½"	2'-1½"
T	15'-0"'	15'-0"
U	5'-0"	5'-0"
V	28'-0"	28'-0"
W	1'-6"	1'-6"
X	15'-0"	15'-0"
Y	5'-0"	5'-0"
Θ1	4.180°	4.180° OR 1.575' FROM HORIZ.
Θ2	0.000°	2.605°
Θ3	4.180°	4.180° OR 6.785' FROM HORIZ.

NOTES:

1. TOP OF PANELS ARE SET ½" BELOW CHORD OF TOP OF BEAM.
2. ANGLE IN SPAN 2 GIVEN WITH RESPECT TO CHORD BETWEEN CENTER POINT OF SIDES ELLIPSES. THE ANGLE OF THAT CHORD MATCHES THE ANGLE OF THE CENTER ELLIPSE WHICH IS GIVEN WITH RESPECT TO HORIZONTAL OR 0 DEGREES.
3. POSITIVE DIMENSIONS TO CENTER OF ELLIPSE INDICATE UPWARD OFFSET FROM REFERENCE POINT AND NEGATIVE DIMENSIONS INDICATE DOWNWARD OFFSET. POSITIVE ANGLE INDICATES CLOCKWISE ROTATION AND NEGATIVE ANGLE INDICATES COUNTER-CLOCKWISE ROTATION.
4. OUTSIDE END OF END PANELS TO BE BEVELED AT 10 DEGREES TO MATCH SKEW OF ABUTMENTS AND PIER.

REFERENCES:

1. FOR SECTION X-X, SEE DWG. NO. S-39.

LEGEND:

- ▭ HORIZONTAL CONNECTION
- ▯ VERTICAL CONNECTION

GRAPHIC SCALE
1" 0 4' 8'
¼"=1'-0"

S-38
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL

Township of Roxbury — Morris County — New Jersey

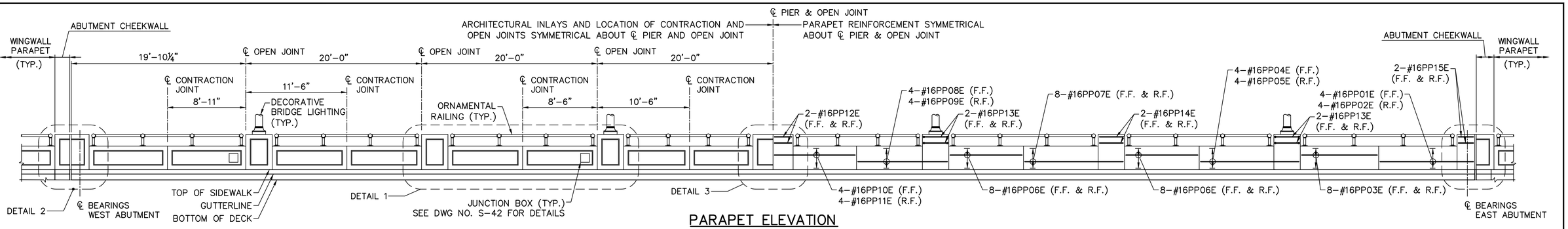
PRECAST CONCRETE ARCH FACADE PANEL ELEVATIONS

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

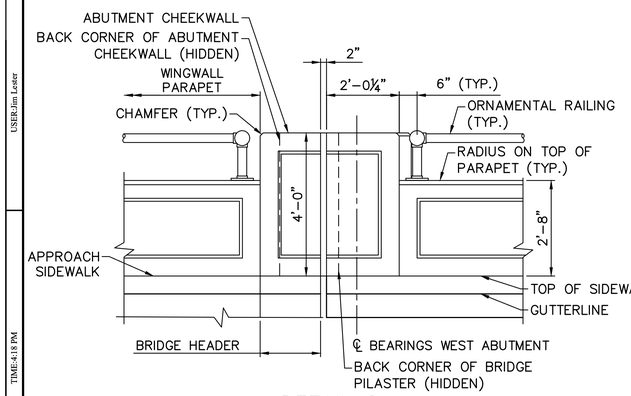
Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: JPL
Sheet #: 157 of 175

PROJECT:
USER:Jim Lester
TIME:4:17 PM
DATE:4/26/2023
TY LIN INTERNATIONAL
FILE C:\Jims\0-Jpw\jim.lester@tylin.com#0158866\361193-S-PC-ARC-DT.dwg



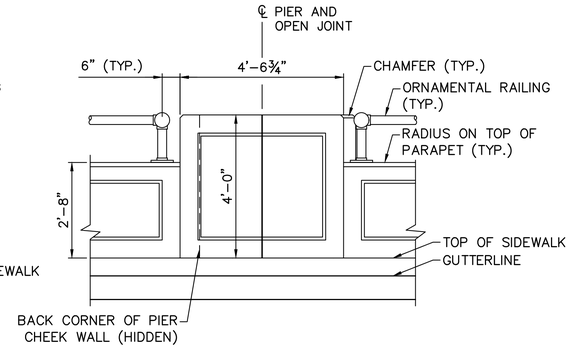
PARAPET ELEVATION

(LOOKING NORTH, NORTH PARAPET SHOWN, SOUTH PARAPET OPPOSITE)
SCALE: 3⁄16"=1'-0"



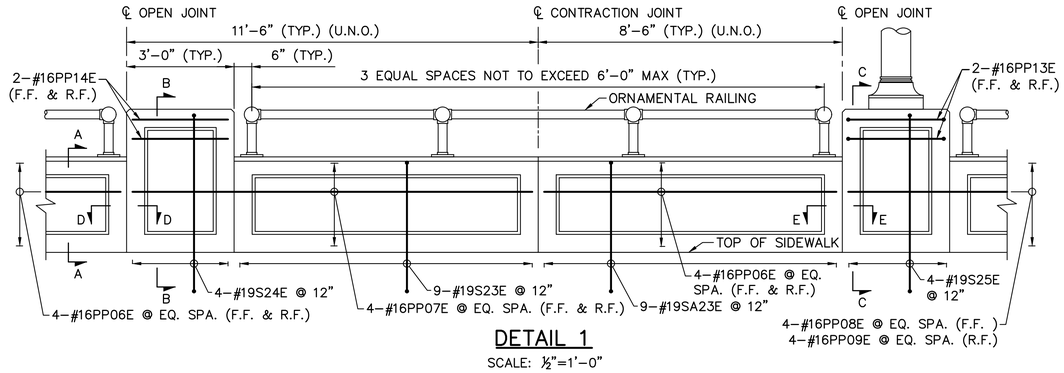
DETAIL 2

NORTH PARAPET AT WEST ABUTMENT SHOWN,
SOUTH PARAPET AT EAST ABUTMENT OPPOSITE HAND
SCALE: ½"=1'-0"



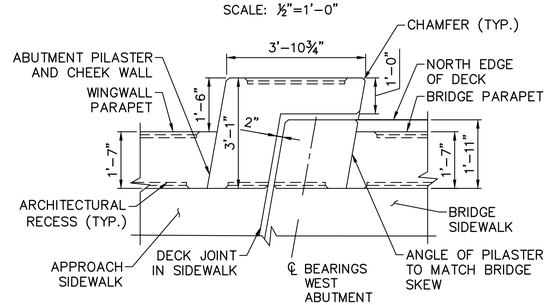
DETAIL 3

NORTH PARAPET SHOWN,
SOUTH PARAPET OPPOSITE HAND
SCALE: ½"=1'-0"



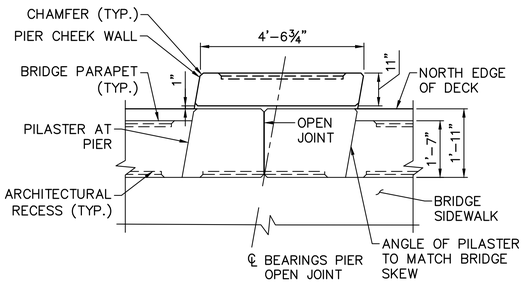
DETAIL 1

SCALE: ½"=1'-0"



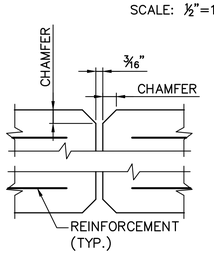
PILASTER PLAN AT ABUTMENT

NORTH PARAPET AT WEST ABUTMENT SHOWN,
SOUTH PARAPET AT EAST ABUTMENT OPPOSITE HAND
ORNAMENTAL RAILING NOT SHOWN FOR CLARITY
SCALE: ½"=1'-0"



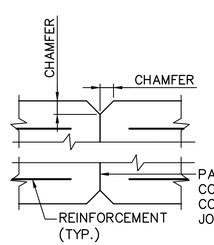
PILASTER PLAN AT PIER

NORTH PARAPET SHOWN,
SOUTH PARAPET OPPOSITE HAND
ORNAMENTAL RAILING NOT SHOWN FOR CLARITY
SCALE: ½"=1'-0"



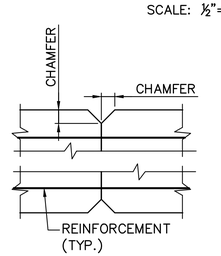
OPEN JOINT

N.T.S.



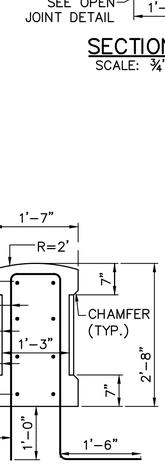
CONTRACTION JOINT

N.T.S.



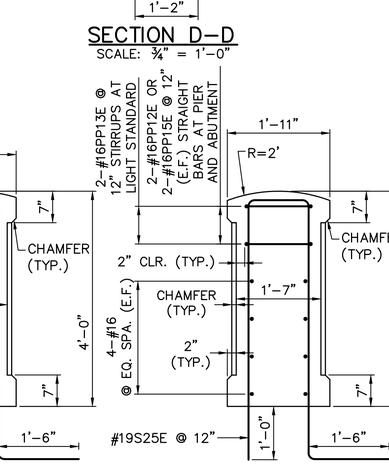
CONSTRUCTION JOINT

N.T.S.



SECTION E–E

SCALE: ¾" = 1'-0"



SECTION D–D

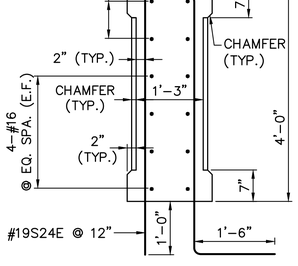
SCALE: ¾" = 1'-0"

NOTES:

1. CONTRACTION JOINTS SHALL BE PROVIDED IN SIDEWALKS AT LOCATIONS OF 3⁄16" OPEN PARAPET DEFLECTION JOINTS.
2. ALL REINFORCEMENT BARS IN PARAPETS AND SIDEWALKS SHALL BE EPOXY COATED.
3. FOR JUNCTION BOX DETAILS, SEE DWG. NO. S-42.
4. FOR RAILING DETAILS, SEE DWG. NO. S-42.

SECTION A–A

SCALE: ¾"=1'-0"



SECTION B–B

SCALE: ¾"=1'-0"

SECTION C–C

SCALE: ¾"=1'-0"

GRAPHIC SCALE 0 1' 2' 1"=1'

GRAPHIC SCALE 0 10' 20' 1"=10'

S-41
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL
Township of Roxbury — Morris County — New Jersey

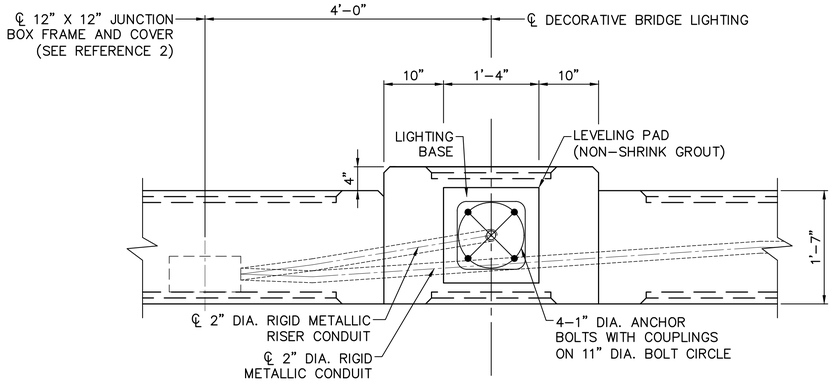
BRIDGE PARAPET AND PYLON DETAILS

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976600

Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: XH
Sheet #: 160 of 175

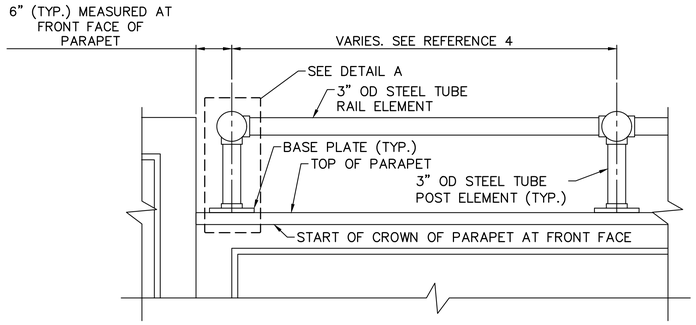
TY LIN INTERNATIONAL
FILE: C:\tmp\ty\pw_jim.lester@tylin.com\d0158066\361193-S-BG-PP-DT.dwg
DATE:4/20/2023
TIME:4:18 PM
USER:Jim Lester
PROJECT:



DECORATIVE BRIDGE LIGHTING PLAN

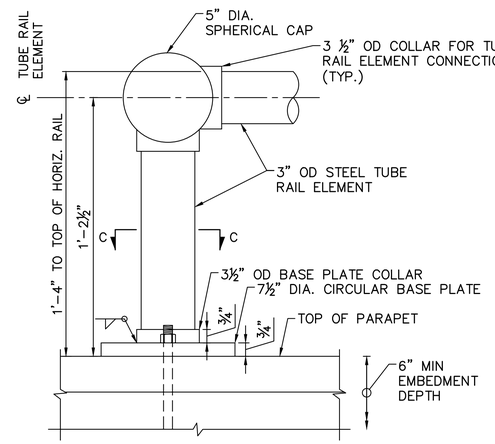
SCALE: 1"=1'-0"

NOTE: PARAPET REINFORCEMENT AND ORNAMENTAL RAILING NOT SHOWN FOR CLARITY. SEE REFERENCE 3.



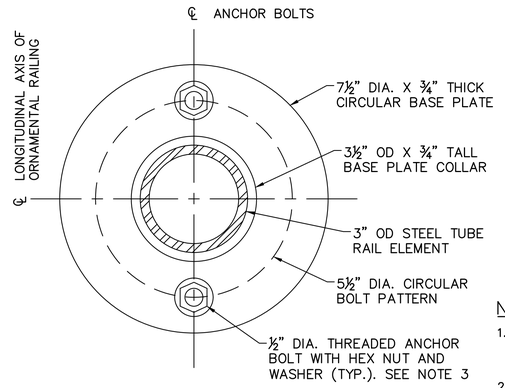
ORNAMENTAL RAILING ELEVATION

SCALE: 1"=1'-0"



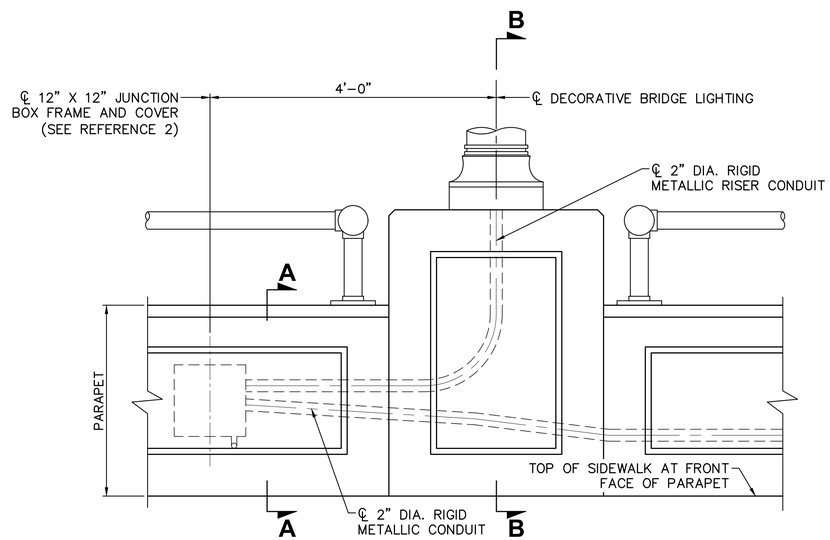
DETAIL A

SCALE: 3"=1'-0"



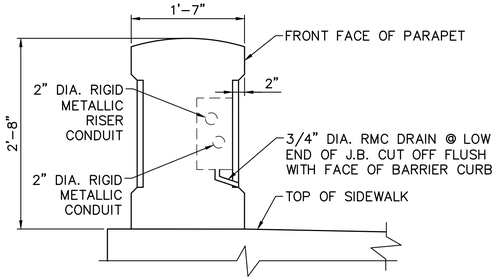
SECTION C-C

SCALE: 6"=1'-0"



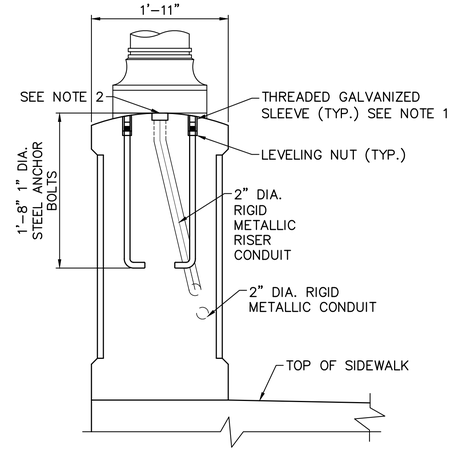
DECORATIVE BRIDGE LIGHTING ELEVATION

SCALE: 1"=1'-0"



SECTION A-A

SCALE: 1"=1'-0"



SECTION B-B

SCALE: 1"=1'-0"

NOTE: PARAPET REINFORCEMENT NOT SHOWN FOR CLARITY, SEE REFERENCE 3

NOTES:

1. 1" DIA., 8-NC-2, THREADED GALVANIZED SLEEVE, HEX COUPLINGS SET FLUSH WITH TOP OF CONCRETE, PLUG WITH STANDARD HEX GALVANIZED SOCKET SCREWS.
2. 1 1/2" DIA. GALVANIZED CONDUIT PIPE COUPLING, SET FLUSH PLUG WITH GALVANIZED RECESSED PLUG.
3. AXIS BETWEEN BASE PLATE ANCHOR BOLTS TO BE PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE ORNAMENTAL RAILING.

REFERENCES:

1. FOR DETAILS OF R.M.C. EXPANSION SLEEVE, SEE NJDOT BRIDGE CONSTRUCTION DETAIL BCD-701-1.1.
2. FOR BRIDGE LIGHTING PLAN, SEE DWG. NO. BL-1.
3. FOR REINFORCEMENT IN THE PARAPET, SEE DWG. NO. S-42.

GRAPHIC SCALE
0 1' 2'
1"=1'

S-42
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL

Township of Roxbury | Morris County | New Jersey

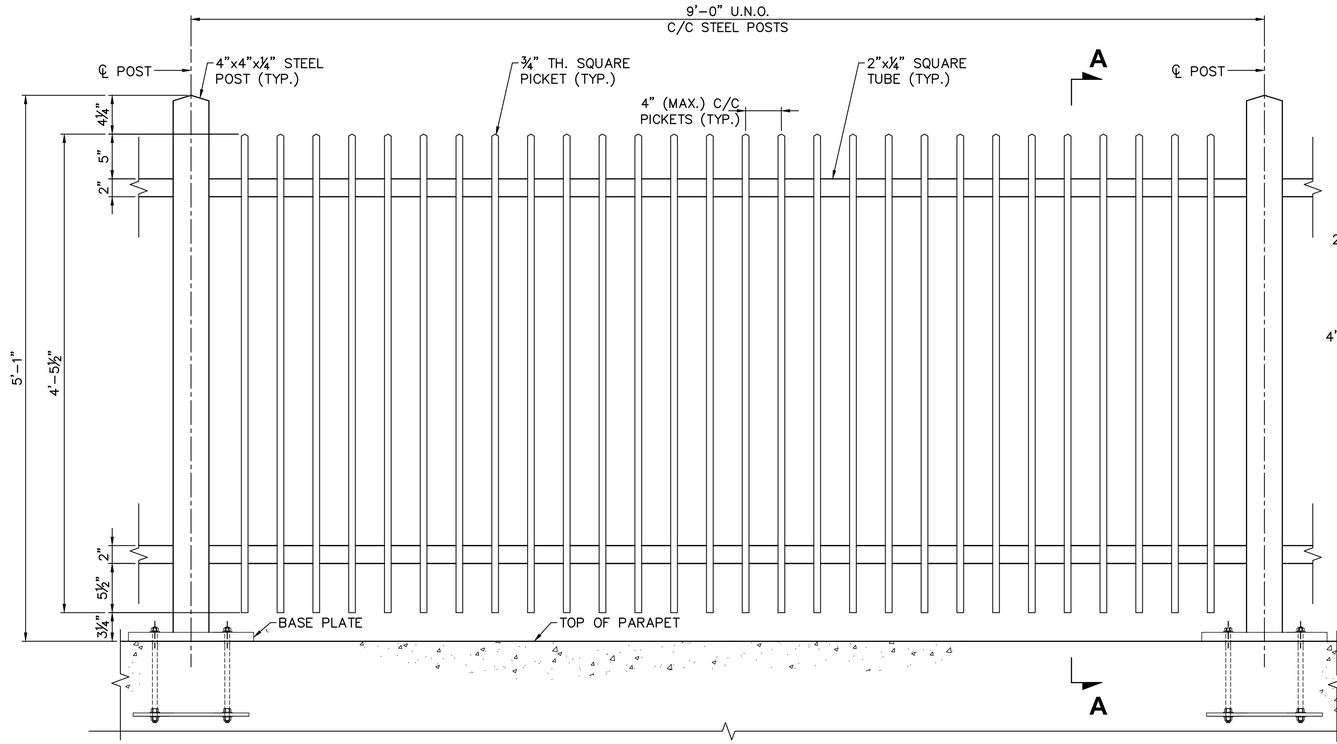
BRIDGE ARCHITECTURAL DETAILS

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

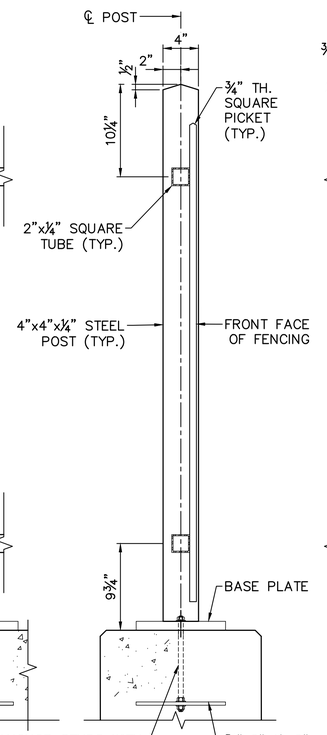
Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: XH
Sheet #: 161 of 175

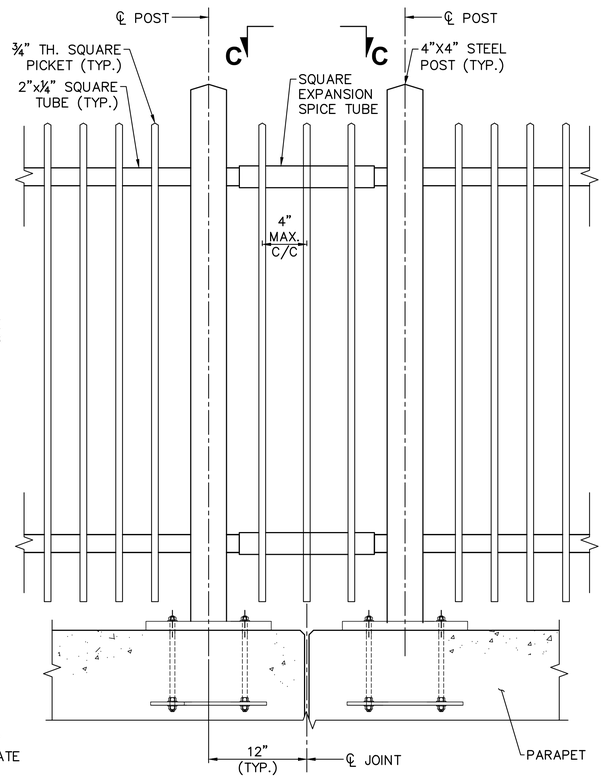
TY LIN INTERNATIONAL
FILE: C:\tmss\tylin.pw:jim.lester@tylin.com\d0158966\361193-S-BIG-ARC-DT.dwg
DATE:4/20/2023
USER:Jim Lester
TIME:4:18 PM
PROJECT:



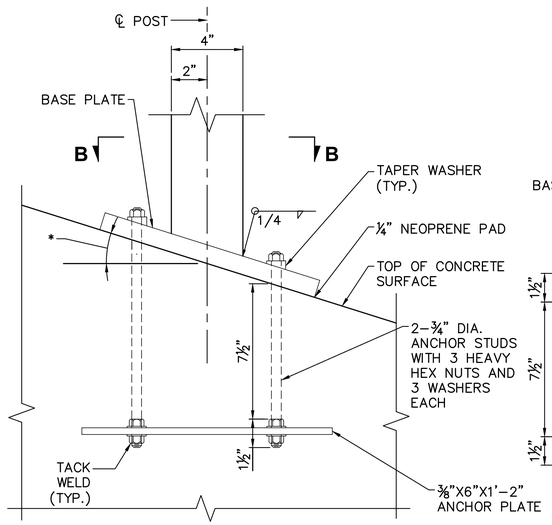
ELEVATION
TYPICAL FENCE
SCALE: 1½"=1'-0"



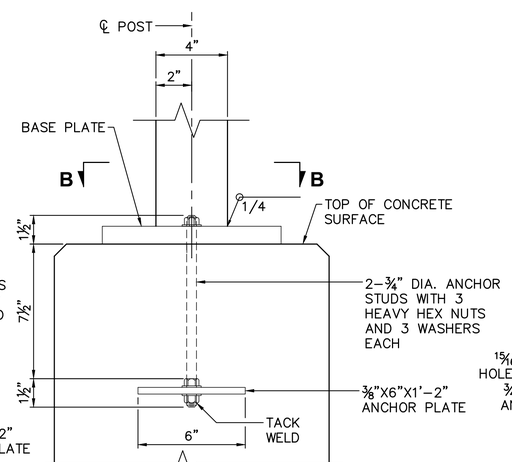
SECTION A-A
SCALE: 1½"=1'-0"



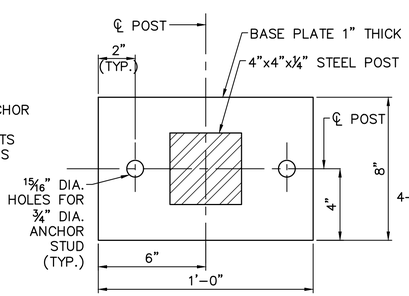
FENCE ELEVATION AT EXPANSION JOINTS
SCALE: 1½"=1'-0"



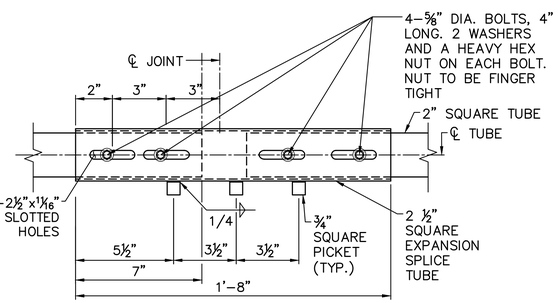
ANCHOR BOLT DETAIL AT ANGLE
SCALE: 3"=1'-0"



ANCHOR BOLT DETAIL
SCALE: 3"=1'-0"



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



SECTION C-C
NOT TO SCALE

GRAPHIC SCALE
1' 9" 6" 3" 0 1'
1½"=1'-0"

GRAPHIC SCALE
0 3" 6" 9" 1'
3"=1'-0"

S-52
S-56

Date	Revision	Drawn By:	Checked By:

REPLACEMENT OF BRIDGE NO. 1400-073 ON LANDING ROAD OVER NJ TRANSIT AND THE MORRIS CANAL

Township of Roxbury — Morris County — New Jersey

FENCING DETAILS

TYLin
100 Enterprise Drive, Suite 510
Rockaway, New Jersey 07866
Tel. 908.850.3366
Certificate Of Authorization No. 24GA27976000

Sandeep R. Singh, P.E.
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04713200

Job #: 361193
Scale: AS NOTED
Date: MARCH 2023
Drawn By: SIB
Checked By: JL
Sheet #: 171 of 175

TY LIN INTERNATIONAL
FILE: C:\mes\ppl-per-jim.lester@tylin.com\d0158866\361193-S-RW1-FN-DT.dwg
DATE: 4/26/2023
USER: Jim Lester
TIME: 4:25 PM
PROJECT: