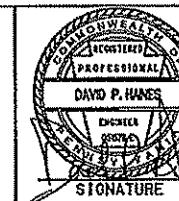


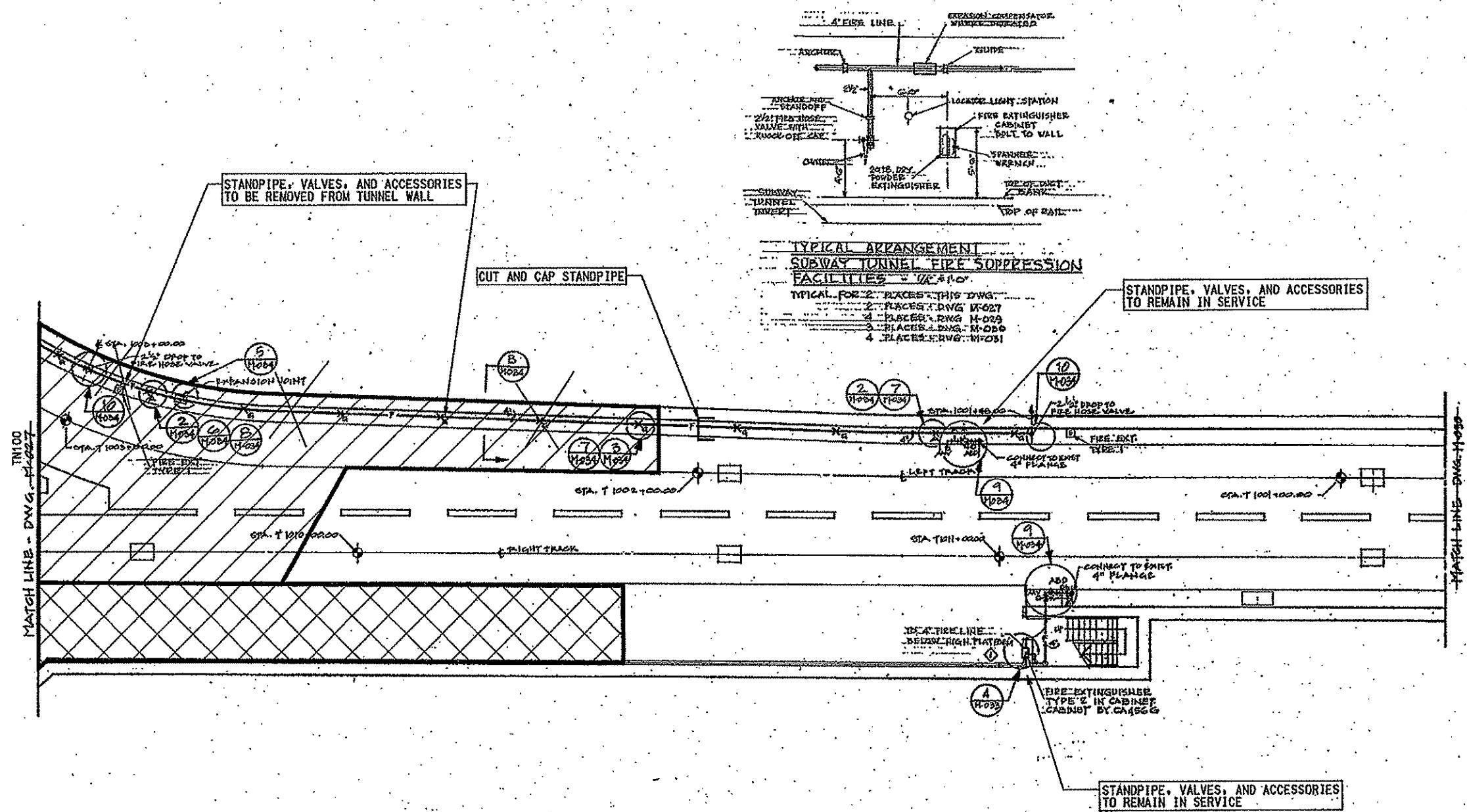
**NOTES**  
① DRAWING IS TAKEN FROM PAAC STAGE I LIGHT RAIL TRANSIT SYSTEM, GATEWAY CENTER STATION FINISHES, CONSTRUCTION CONTRACT NO. CA-456-G, CA-456-H, CA-456-P, CA-456-E DATED 1981

- ② THE CONTRACTOR SHALL REFER TO SECTION 02220, "DEMOLITION" FOR FURTHER DETAILS.
- ③ ALL STANDPIPE, SUMP PUMP AND VENTILATION SYSTEMS SHALL REMAIN FULLY OPERATIONAL UNTIL TRAIN OPERATIONS ARE CONVERTED TO TURN BACK OPERATIONS AT WOOD STREET STATION AND A TUNNEL CLOSURE WALL IS CONSTRUCTED TO SEPARATE THE DEMOLITION ZONE.
- ④ THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TEMPORARY VENTILATION DURING ALL STAGES OF DEMOLITION AND CONSTRUCTION.
- ⑤ ANY ALTERATIONS TO THE STANDPIPE SYSTEM SHALL BE IN ACCORDANCE WITH NEPA.



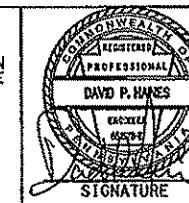
**DMJM HARRIS** | **AECOM**  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
  
APPROVED 4/16/03  
DATE

<p style="text-align: center;"><b>PORT AUTHORITY OF ALLEGHENY COUNTY</b>  <b>PITTSBURGH</b>  <b>PA</b></p> <p style="text-align: center;"><b>NORTH SHORE CONNECTOR</b>  <b>NSC TRAIN SYSTEMS (SYSTEM WIDE)</b>  <b>STANDPIPE DEMOLITION PLAN</b></p> <p style="text-align: center;">1 OF 3</p>	
<p style="text-align: center;"><b>Port Authority</b>  <small>Subsidiary of P&amp;G</small></p>	<p style="text-align: right;">CONTRACT NO. <b>NSC-009</b></p>
	<p style="text-align: right;">DWG. NO. <b>TN100</b></p>



- NOTES**
- DRAWING IS TAKEN FROM PAAC STAGE I LIGHT RAIL TRANSIT SYSTEM, GATEWAY CENTER STATION FINISHES, CONSTRUCTION CONTRACT NO. CA-456-G, CA-456-H, CA-456-P, CA-456-E DATED 1981
  - THE CONTRACTOR SHALL REFER TO SECTION 02220, "DEMOLITION" FOR FURTHER DETAILS.
  - ALL STANDPIPE, SUMP PUMP AND VENTILATION SYSTEMS SHALL REMAIN FULLY OPERATIONAL UNTIL TRAIN OPERATIONS ARE CONVERTED TO TURN BACK OPERATIONS AT WOOD STREET STATION AND A TUNNEL CLOSURE WALL IS CONSTRUCTED TO SEPARATE THE DEMOLITION ZONE.
  - THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TEMPORARY VENTILATION DURING ALL STAGES OF DEMOLITION AND CONSTRUCTION.
  - ANY ALTERATIONS TO THE STANDPIPE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA.

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA 15222  
*D. D. Harris*  
APPROVED  
DATE: APR 28, 2008  
SIGNATURE

DESIGNED CM  
DRAWN DPH  
CHECKED DH  
IN CHARGE DPH  
DATE APR 28, 2008  
SCALE NTS

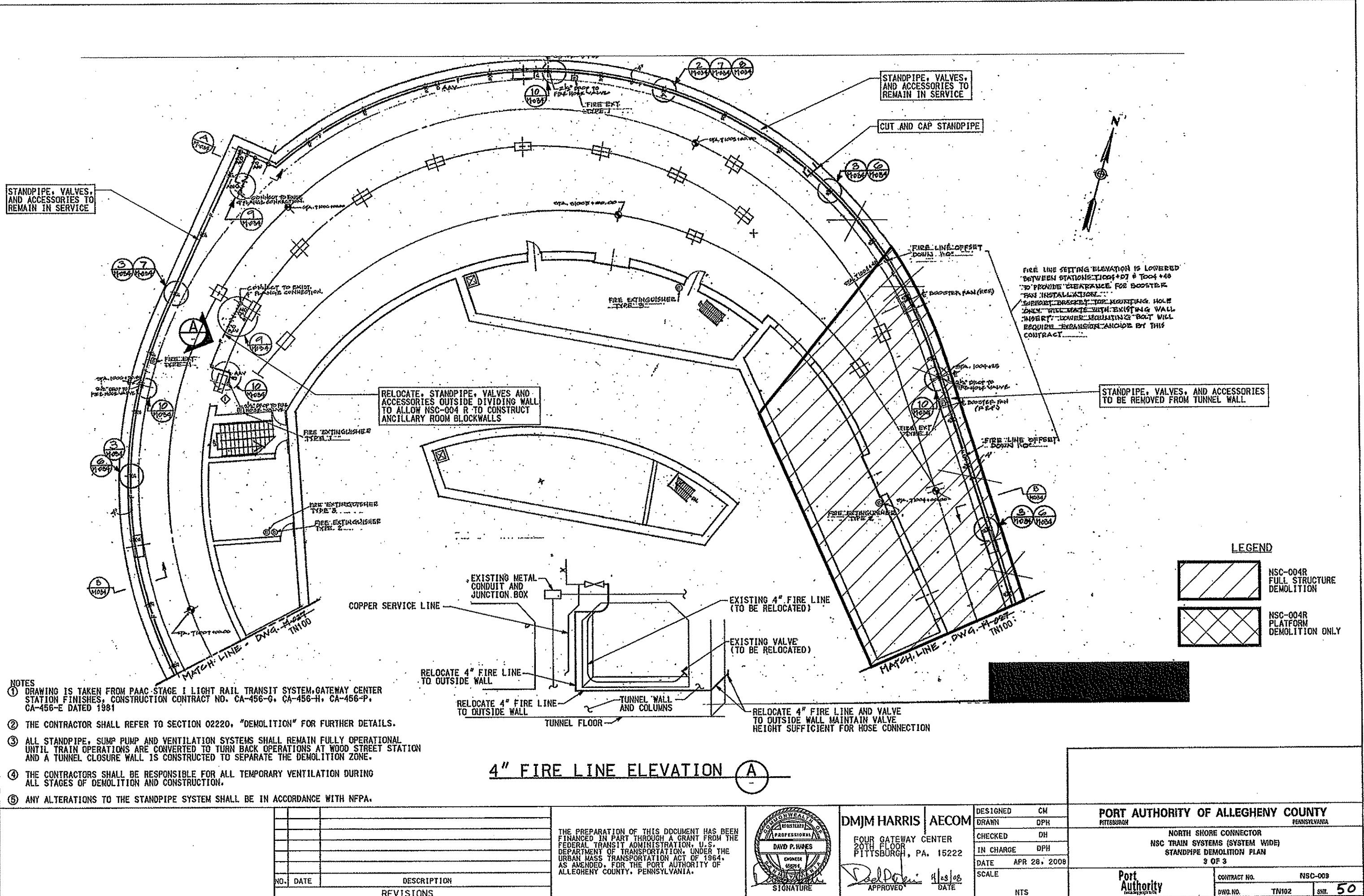
PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH

NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
STANDPIPE DEMOLITION PLAN

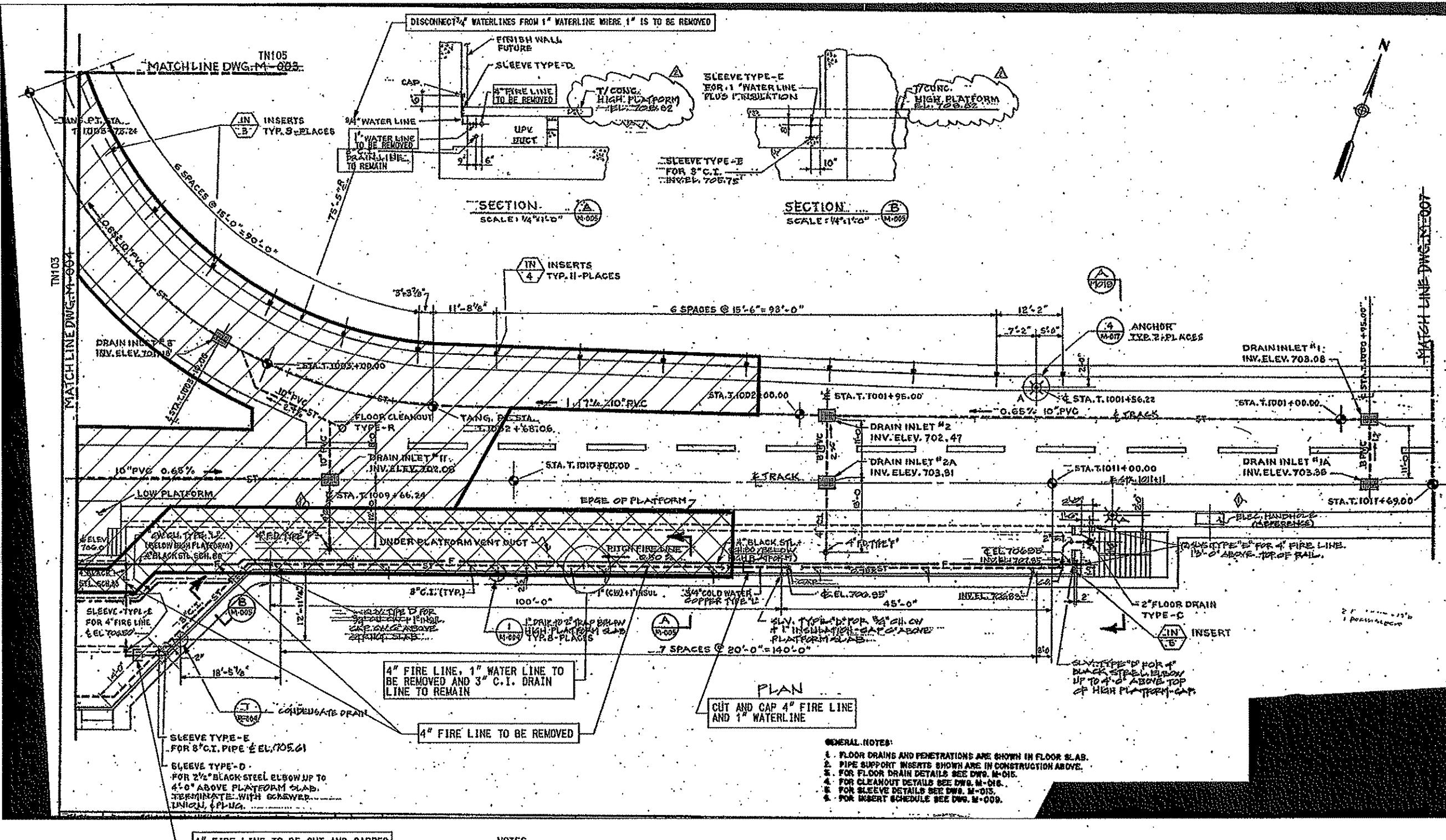
2 OF 3

Port Authority

CONTRACT NO. NSC-008  
DWG. NO. TN101 SHT. 49







① DRAWING IS TAKEN FROM PAAC STAGE I LIGHT RAIL TRANSIT SYSTEM, LIBERTY AVENUE SUBWAY AND GATEWAY CENTER SHELL CONSTRUCTION CONTRACT NO. CA-450, DATED 1981

② THE CONTRACTOR SHALL REFER TO SECTION 02220, "DEMOLITION" FOR FURTHER DETAILS.

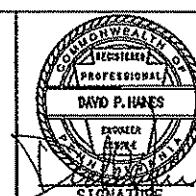
③ ALL STANDPIPE, SUMP PUMP AND VENTILATION SYSTEMS SHALL REMAIN FULLY OPERATIONAL UNTIL TRAIN OPERATIONS ARE CONVERTED TO TURN BACK OPERATIONS AT WOOD STREET STATION AND A TUNNEL CLOSURE WALL IS CONSTRUCTED TO SEPARATE THE DEMOLITION ZONE.

④ THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TEMPORARY VENTILATION DURING ALL STAGES OF DEMOLITION AND CONSTRUCTION.

⑤ ANY ALTERATIONS TO THE STANDPIPE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA.

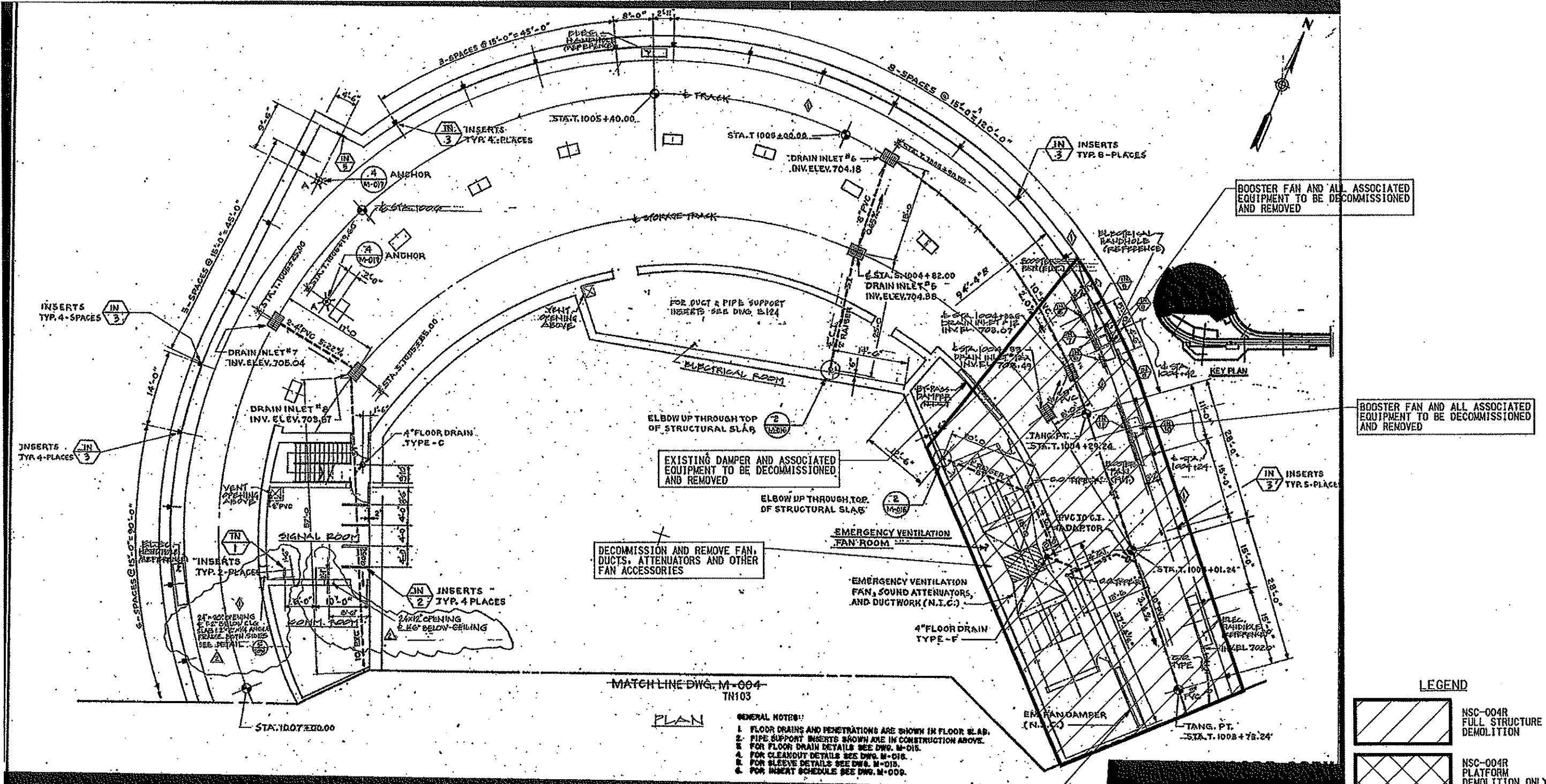
NO.	DATE	DESCRIPTION
REVISONS		

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED *D. DeLoach* DATE *4/28/08*  
SIGNATURE

**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH  
PA  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
STANDPIPE /SUMP /VENTILATION DEMOLITION PLAN  
2 OF 3  
**Port Authority**  
CONTRACT NO. NSC-009  
DWG. NO. TN104 SHT. 52



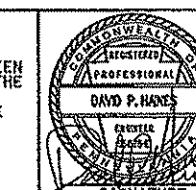
NOTES  
 ① DRAWING IS TAKEN FROM PAAC STAGE I LIGHT RAIL TRANSIT SYSTEM, LIBERTY AVENUE SUBWAY AND GATEWAY CENTER SHELL CONSTRUCTION CONTRACT NO. CA-450, DATED 1981

② THE CONTRACTOR SHALL REFER TO SECTION 02220, "DEMOLITION" FOR FURTHER DETAILS.

③ ALL STANDPIPE, SUMP PUMP AND VENTILATION SYSTEMS SHALL REMAIN FULLY OPERATIONAL UNTIL TRAIN OPERATIONS ARE CONVERTED TO TURN BACK OPERATIONS AT WOOD STREET STATION AND A TUNNEL CLOSURE WALL IS CONSTRUCTED TO SEPARATE THE DEMOLITION ZONE.

④ THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TEMPORARY VENTILATION DURING ALL STAGES OF DEMOLITION AND CONSTRUCTION.

⑤ ANY ALTERATIONS TO THE STANDPIPE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA.

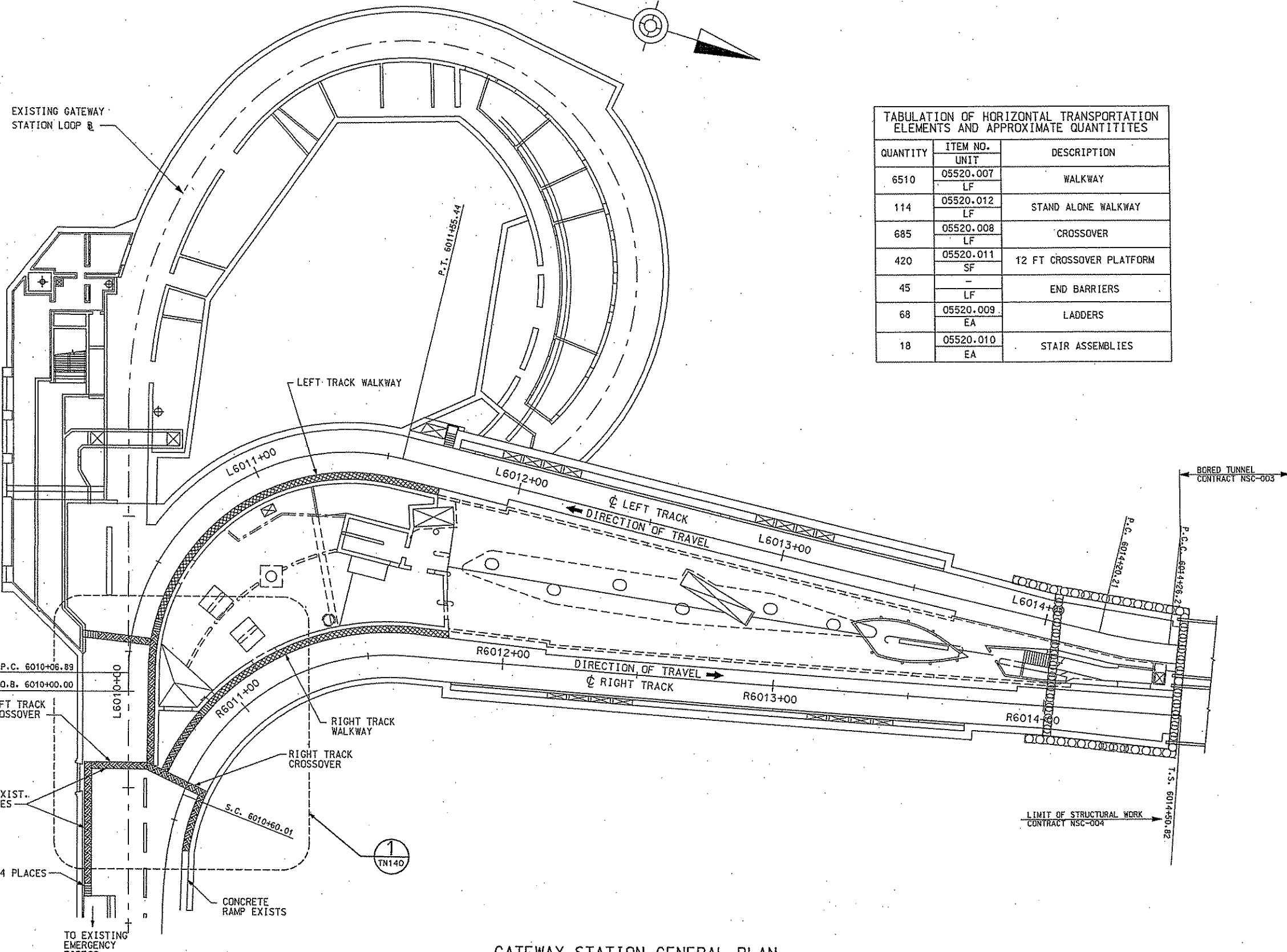


DMJM HARRIS AECOM  
 FOUR GATEWAY CENTER  
 20TH FLOOR  
 PITTSBURGH, PA. 15222  
 APPROVED *David P. Hayes* *4/28/08*  
 DATE  
 SIGNATURE

DESIGNED CM  
 DRAWN DPH  
 CHECKED DH  
 IN CHARGE DPH  
 DATE APR 28, 2008  
 SCALE NTS

PORT AUTHORITY OF ALLEGHENY COUNTY  
 PITTSBURGH  
 NORTH SHORE CONNECTOR  
 NSC TRAIN SYSTEMS (SYSTEM WIDE)  
 STANDPIPE / SUMP / VENTILATION DEMOLITION PLAN

3 OF 3  
 Port Authority  
 CONTRACT NO. NSC-009  
 DWG. NO. TN105 SHT. 53



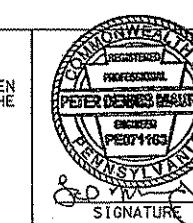
GATEWAY STATION GENERAL PLAN  
STA L6010+00 TO STA L6014+00.

TABULATION OF HORIZONTAL TRANSPORTATION ELEMENTS AND APPROXIMATE QUANTITIES		
QUANTITY	ITEM NO.	DESCRIPTION
6510	05520.007 LF	WALKWAY
114	05520.012 LF	STAND ALONE WALKWAY
685	05520.008 LF	CROSSOVER
420	05520.011 SF	12 FT CROSSOVER PLATFORM
45	- LF	END BARRIERS
68	05520.009 EA	LADDERS
18	05520.010 EA	STAIR ASSEMBLIES

#### GENERAL NOTES:

1. TN DRAWINGS TO BE READ IN CONJUNCTION WITH CONTRACT DRAWINGS FOR CAST IN PLACE TUNNEL SECTIONS FOR CONTRACTS 003, 004, AND 006.
2. ALL STEEL RELATED TO WALKWAYS AND CROSSOVERS SHALL BE AASHTO M270 (ASTM A709, GR36) HOT DIPPED GALVANIZED.
3. ALL STEEL NUTS, BOLTS & SCREWS RELATED TO WALKWAYS AND CROSSOVERS TO BE SPUN GALVANIZED EXCEPT WHERE NOTED. ALL WASHERS TO BE SPLIT WASHERS IN HARDENED STEEL AND GALVANIZED.
4. THE HEIGHT OF THE WALKWAY IN RELATION TO THE TUNNEL BASE SLAB VARIES WITH SUPERELEVATION.
5. ANCHOR BOLTS TO BE GALVANIZED HILTI HDI DROP-IN ANCHORS OR APPROVED EQUAL.
6. STRUCTURAL BOLTS TO BE TO ASTM A325 WITH MINIMUM TENSILE STRENGTH = 120 KSI.
7. GRATING MANUFACTURER APPROVED NOSING TO BE USED ON GRATING ON STAIRS AND AT THE HEAD OF THE LADDER.
8. SPACING OF LADDERS SHALL BE 100 FEET MAXIMUM.

#### LEGEND:



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA 15222  
*Dale P. Stein* 4/21/08  
APPROVED DATE

DESIGNED RJS  
DRAWN NPD  
CHECKED WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1'-0" - 20'  
20' 10' 0 20'

PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
GATEWAY STATION GENERAL WALKWAY PLAN  
STA L6010+00 TO STA L6014+00  
Port Authority  
CONTRACT NO. NSC-009  
DWG. NO. TN130 SHT. 54

**NOTES:**

- FOR GENERAL NOTES, SEE DRAWING TN130.

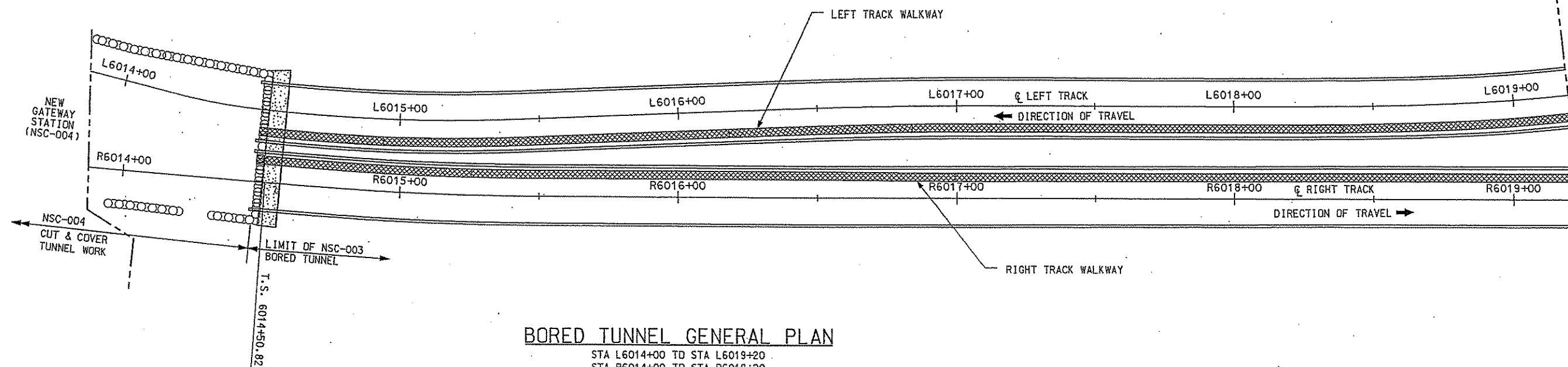
**LEGEND:**



WALKWAY

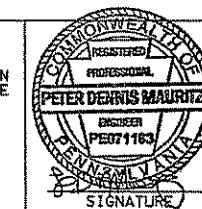
MATCH LINE STA L6019+20

MATCH LINE STA R6019+20



NO.	DATE	DESCRIPTION	REVISIONS

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



PETER DENNIS MAURITZ  
PROFESSIONAL ENGINEER  
PE07163  
APPROVED  
4/25/08  
DATE

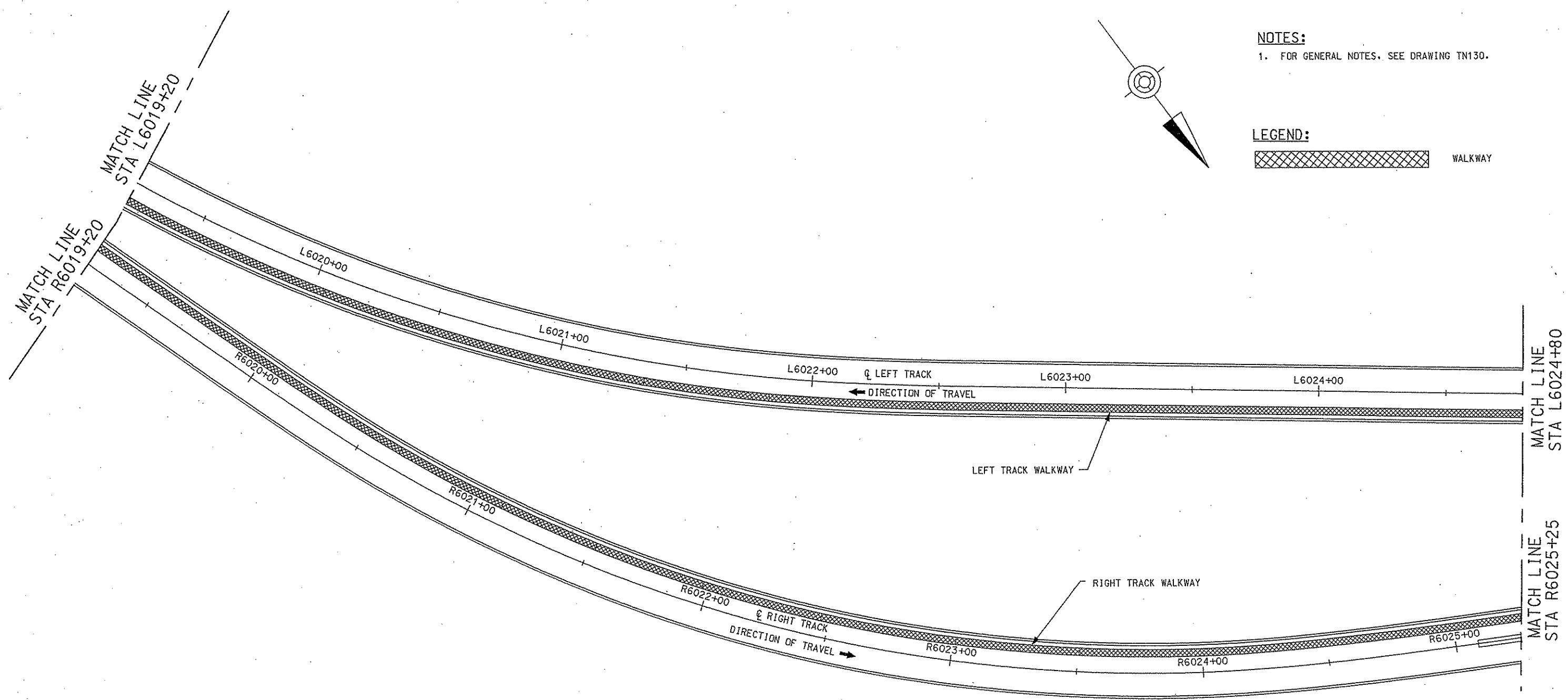
DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1=20'-0"  
20' 10' 0 20'

PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH

NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
BORED TUNNEL GENERAL WALKWAY PLAN  
STA L6014+00 TO STA L6019+20 / STA R6014+00 TO STA R6019+20

Port Authority

CONTRACT NO. NSC-009  
DWG. NO. TN131 SHT. 55



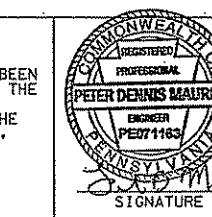
### BORED TUNNEL GENERAL PLAN

STA L6019+20 TO STA L6024+80  
STA R6019+20 TO STA R6025+25

\$TICKS  
\$DATE  
\$FILE

NO.	DATE	DESCRIPTION	REVISIONS

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DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED *Dale P. Harris* DATE *4/21/08*

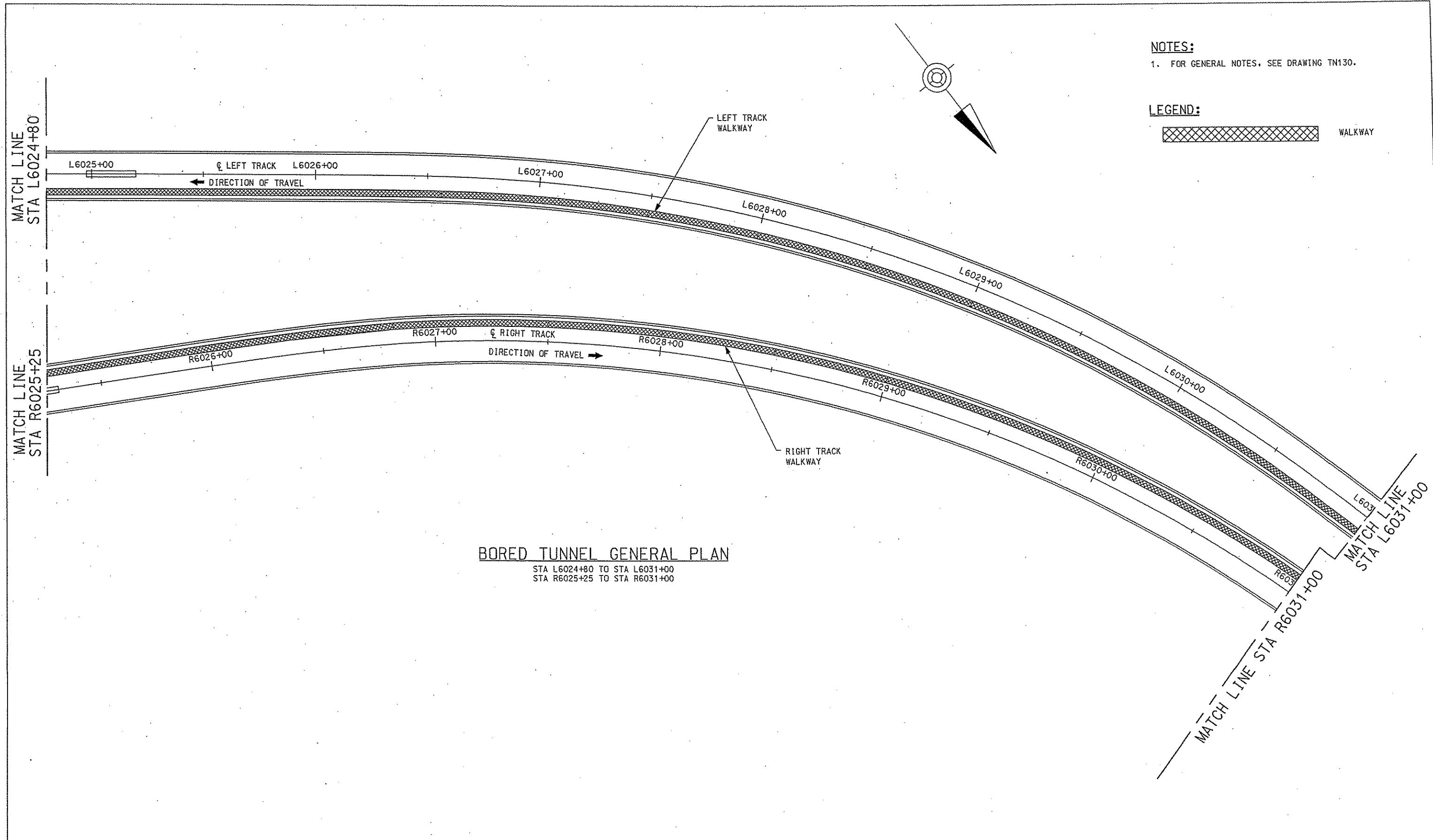
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DRAWN	NPD
CHECKED	WBT
IN CHARGE	DPH
DATE	APRIL 21, 2008
SCALE	1'=20'-0"
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NOTES:  
1. FOR GENERAL NOTES, SEE DRAWING TN130.

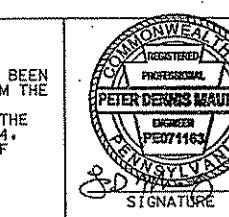
LEGEND:

MATCH LINE  
STA L6024+80  
— — — — —  
MATCH LINE  
STA R6025+25

PORT AUTHORITY OF ALLEGHENY COUNTY PITTSBURGH	CONTRACT NO. NSC-009
NORTH SHORE CONNECTOR NSC TRAIN SYSTEMS (SYSTEM WIDE) BORED TUNNEL GENERAL WALKWAY PLAN STA L6019+20 TO STA L6024+80 / STA R6019+20 TO STA R6025+25	DWG. NO. TN132 SHT. 56



NO.	DATE	DESCRIPTION	REVISIONS



**DMJM HARRIS | AECOM**  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*Dad Harris* APPROVED 4/21/08 DATE

DESIGNED RJS
DRAWN NPD
CHECKED WBT
IN CHARGE DPH
DATE APRIL 21, 2008
SCALE 1'=20'-0"
20' 10' 0 20'

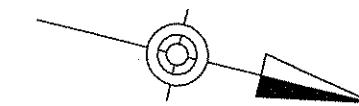
**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH

**NORTH SHORE CONNECTOR**  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
BORED TUNNEL GENERAL WALKWAY PLAN  
STA L6024+80 TO STA L6031+00 / STA R6025+25 TO STA R6031+00

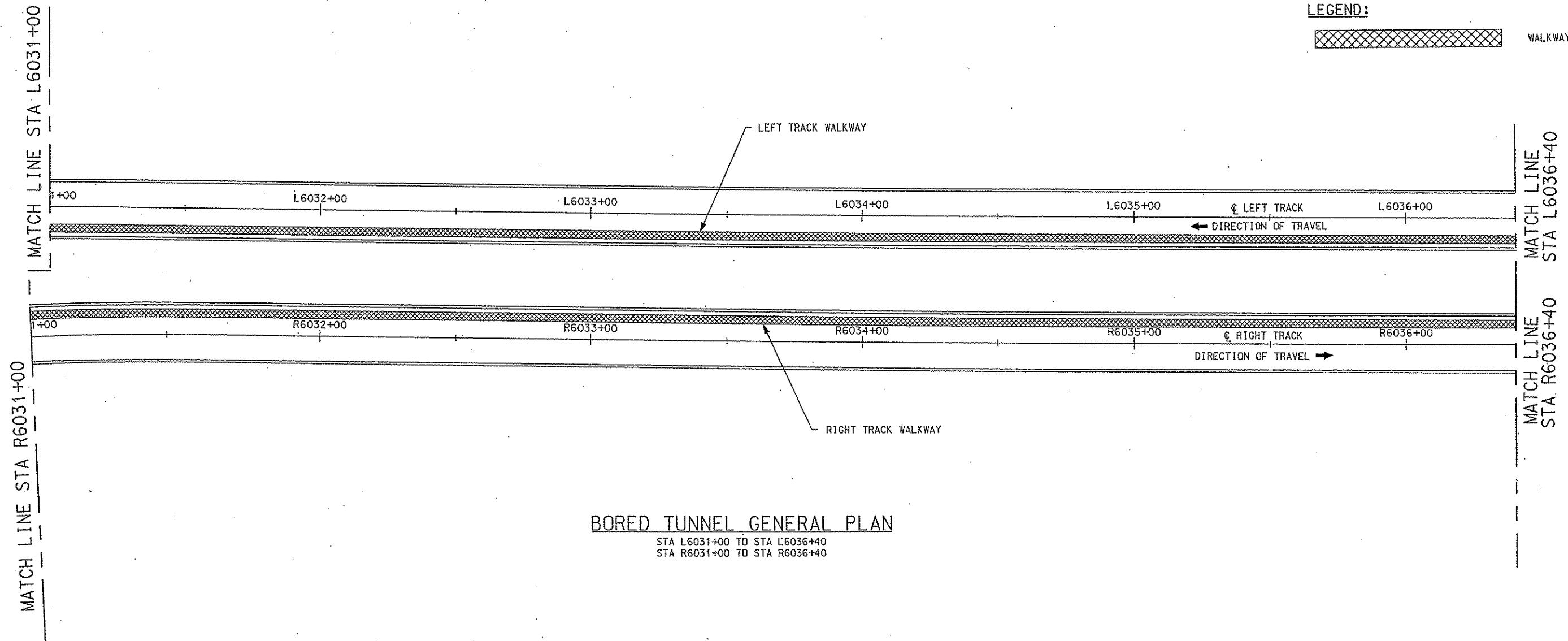
<b>Port Authority</b>	CONTRACT NO. NSC-009
DWG. NO. TN133	SHL. 57

**NOTES:**

1. FOR GENERAL NOTES, SEE DRAWING TN130.

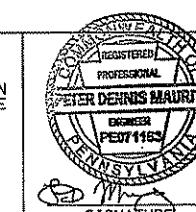
**LEGEND:**

WALKWAY



NO.	DATE	DESCRIPTION
		REVISIONS

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED 4/14/08  
DATE

DESIGNED	RJS
DRAWN	NPO
CHECKED	WBT
IN CHARGE	DPH
DATE	APRIL 21, 2008
SCALE	1'-0" - 20'
20' 10' 0' 20'	

PORT AUTHORITY OF ALLEGHENY COUNTY PITTSBURGH	NORTH SHORE CONNECTOR NSC TRAIN SYSTEMS (SYSTEM WIDE) BORED TUNNEL GENERAL WALKWAY PLAN STA L6031+00 TO STA L6036+00 / STA R6031+00 TO STA R6036+00
Port Authority DRAFTED BY: [Signature]	CONTRACT NO. NSC-009 DWG. NO. TN134 SHT. 58

## NOTES:

1. FOR GENERAL NOTES, SEE DRAWING TN130.

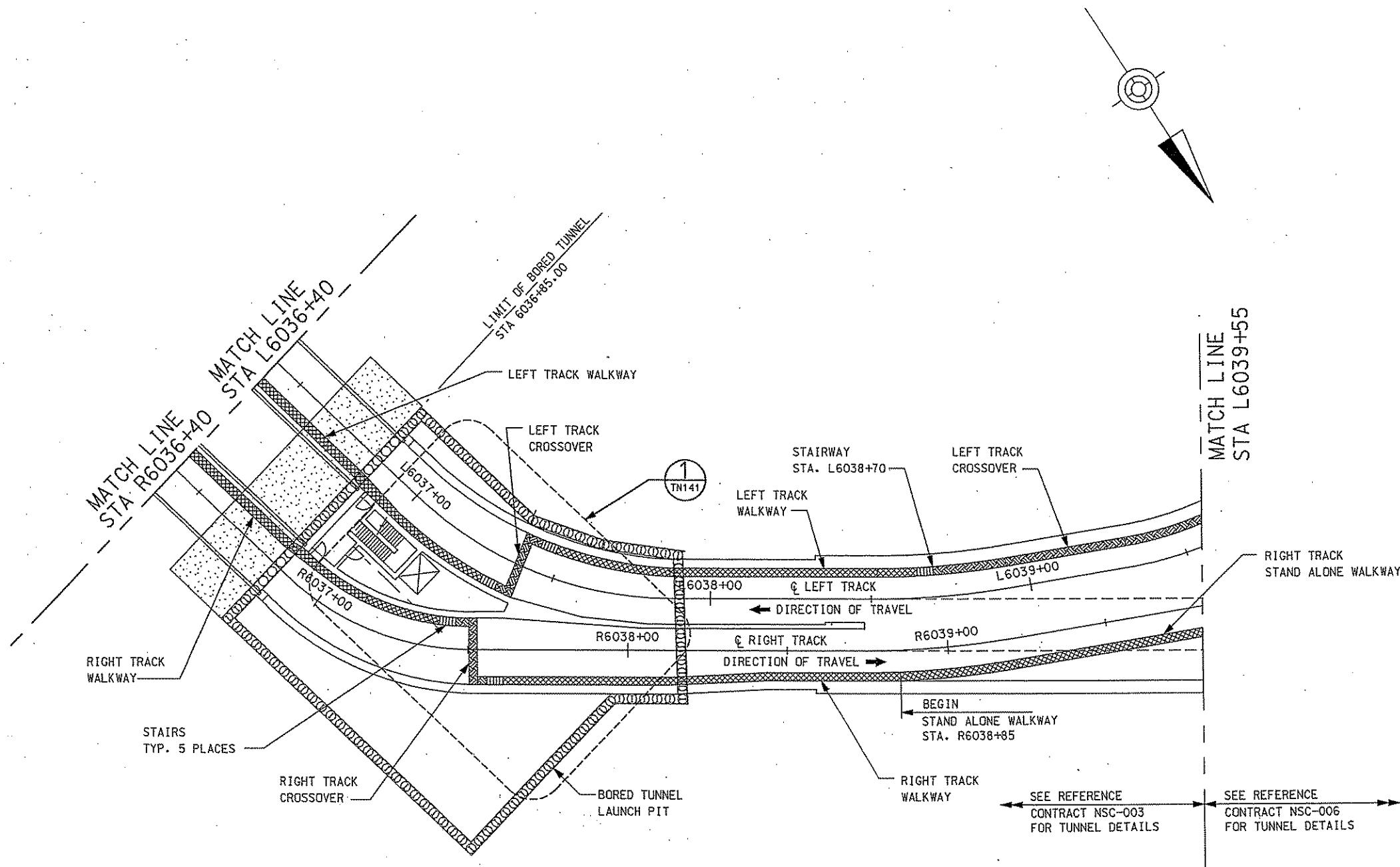
## LEGEND:



WALKWAY



CROSSOVER



## TUNNEL GENERAL PLAN

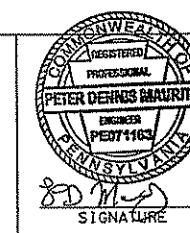
STA L6036+40 TO STA L6039+55  
STA R6036+40 TO STA R6039+80.58

\$TIME\$

\$FILE\$

NO.	DATE	DESCRIPTION	
		REVISIONS	

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*Dad Harris* APPROVED DATE  
4/21/08

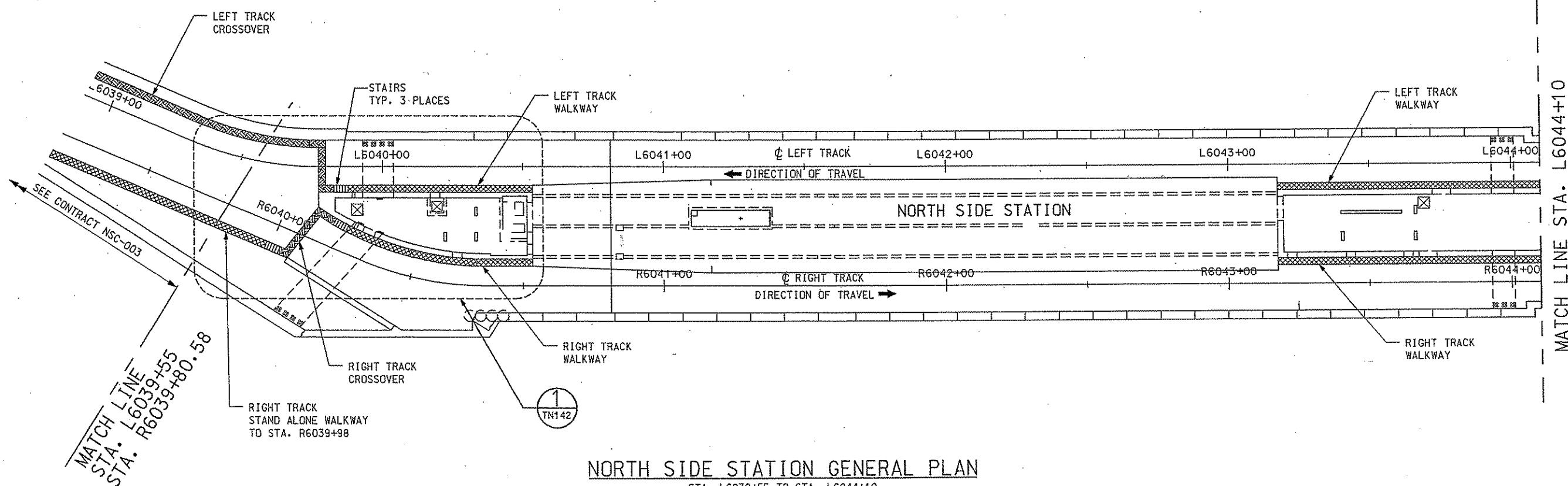
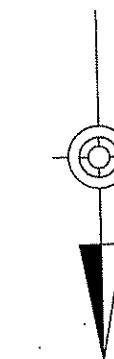
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CHECKED	WBT
IN CHARGE	DPH
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SCALE	I'=20'-0"
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PORT AUTHORITY OF ALLEGHENY COUNTY	
PITTSBURGH	
NORTH SHORE CONNECTOR	NSC TRAIN SYSTEMS (SYSTEM WIDE)
TUNNEL GENERAL WALKWAY PLAN	
STA L6036+40 TO STA L6039+55 / STA R6036+40 TO STA R6039+80.58	CONTRACT NO. NSC-009
Port Authority	DWG. NO. TN135
	SH. 59

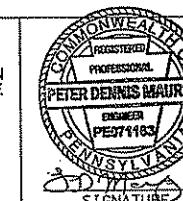
NOTES:

1. FOR GENERAL NOTES, SEE DRAWING TN130.

LEGEND:



THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED. FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM

FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222

DATE APRIL 21, 2008

APPROVED DATE

DESIGNED RJS  
DRAWN NPD

CHECKED WBT

IN CHARGE DPH

SCALE 1=20'-0"

20' 10' 0 20'

PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH  
PENNSYLVANIA

NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
NORTH SIDE STATION GENERAL WALKWAY PLAN  
STA. L6039+55 TO STA. L6044+10

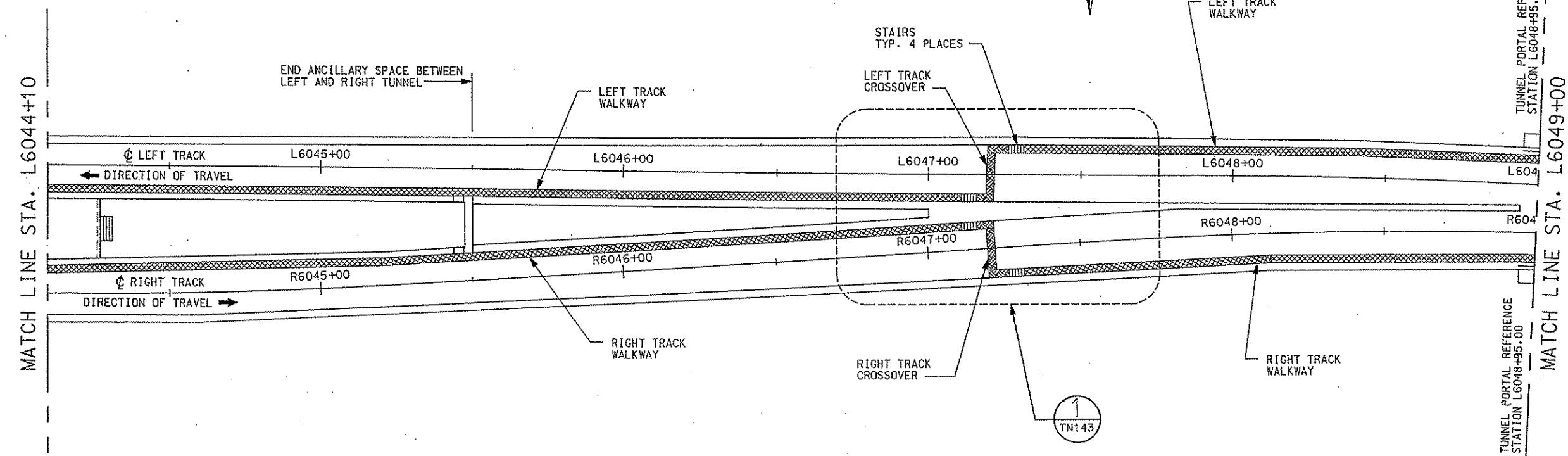
Port Authority

CONTRACT NO. NSC-009  
DWG. NO. TN136 SHT. 60

**NOTES:**

1. FOR GENERAL NOTES, SEE DRAWING TN130.

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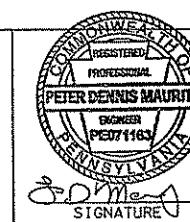


NORTH SIDE STATION GENERAL PLAN

STA. L6044+10 TO STA. L6049+00

NO.	DATE	DESCRIPTION
REVISIONS		

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



**DMJM HARRIS | AECOM**  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*[Signature]*  
APPROV'D *[Signature]* DATE *4/4/08*

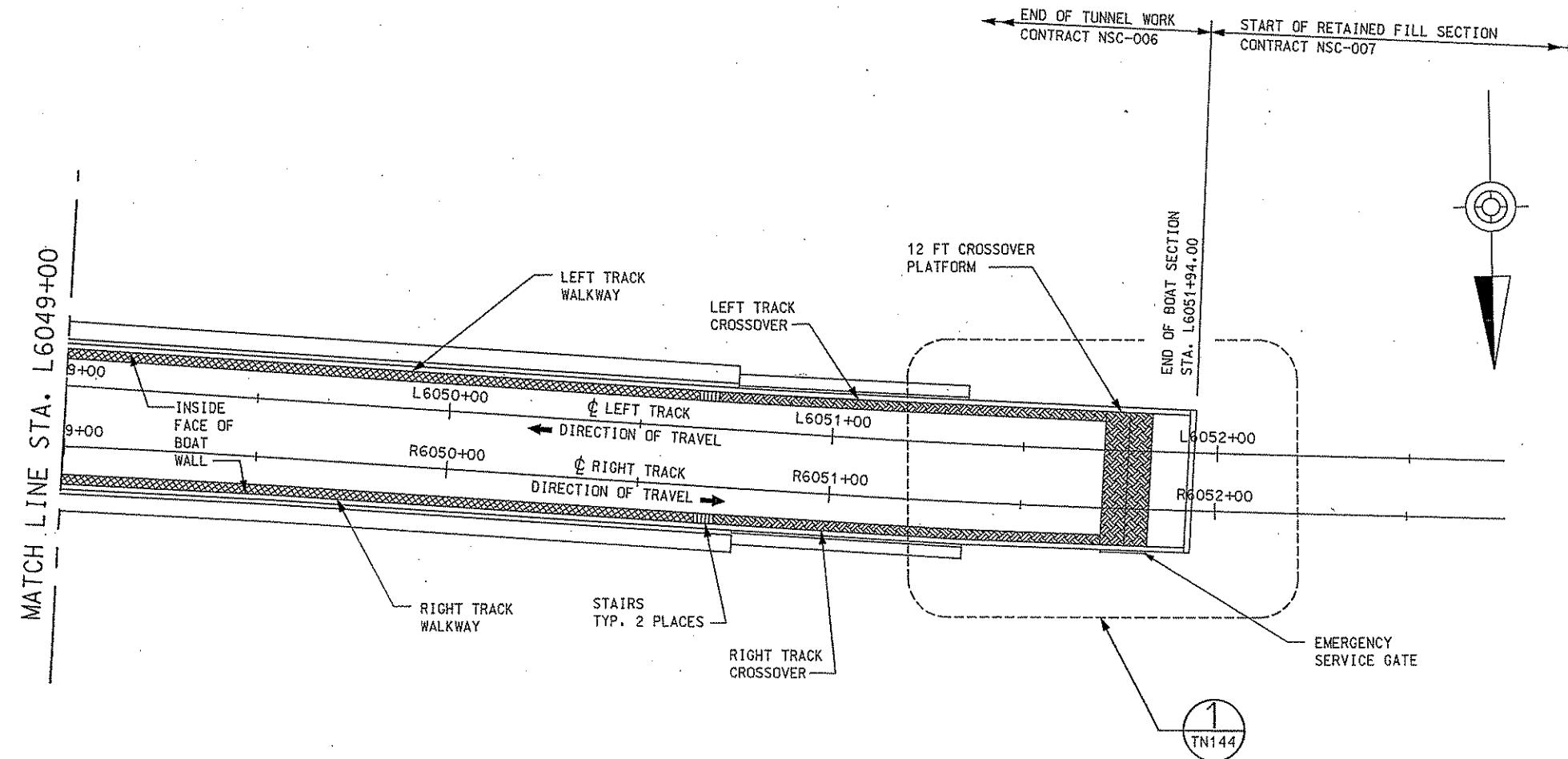
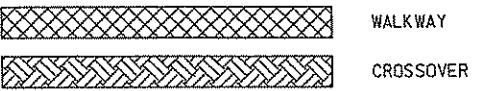
DESIGNED BY RJS  
DRAWN BY NPD  
CHECKED BY WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1=20'-0"  
20' 10' 0' 20'

**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
NORTH SIDE STATION GENERAL WALKWAY PLAN  
STA. L6044+10 TO STA. L6049+00  
**Port Authority** CONTRACT NO. NSC-009  
DWG. NO. TN137 SHT. 6

**NOTES:**

1. FOR GENERAL NOTES, SEE DRAWING TN130.

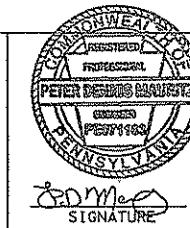
**LEGEND:**



**BOAT SECTION GENERAL PLAN**

STA. L6049+00 TO STA. L6051+94

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



**DMJM HARRIS | AECOM**  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*Dad Harris* APPROVED 4/21/08  
SIGNATURE DATE

DESIGNED	RJS
DRAWN	NPD
CHECKED	WBT
IN CHARGE	DPH
DATE	APRIL 21, 2008
SCALE	1'-0" = 20'-0"

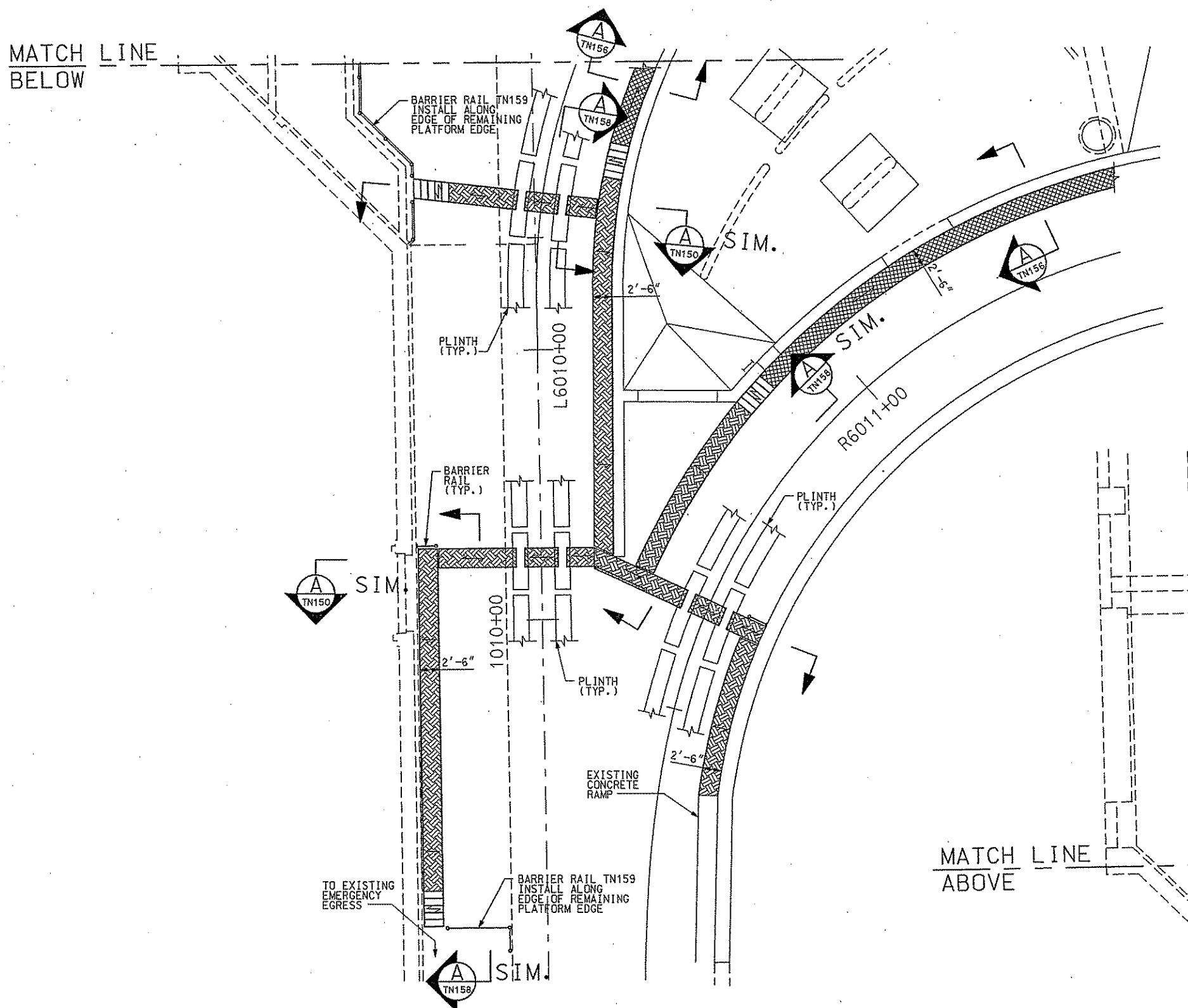
PORT AUTHORITY OF ALLEGHENY COUNTY PITTSBURGH		NORTH SHORE CONNECTOR NSC TRAIN SYSTEMS (SYSTEM WIDE) BOAT SECTION GENERAL WALKWAY PLAN STA. L6049+00 TO STA. L6051+94.00	
Port Authority	CONTRACT NO.	NSC-009	DWG. NO.
	TN138	SHT. 62	

## NOTES:

1. FOR GENERAL NOTES, SEE DRAWING TN130.

## LEGEND:

	INDICATES GRATING SPAN
	WALKWAY
	CROSSOVER

MATCH LINE  
ABOVE

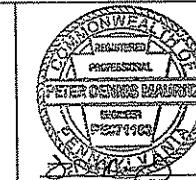
## WALKWAY, STAIR, AND CROSSOVER DETAIL

TN130

\$DATE\$    \$TIME\$

NO.	DATE	DESCRIPTION	REVISIONS

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM

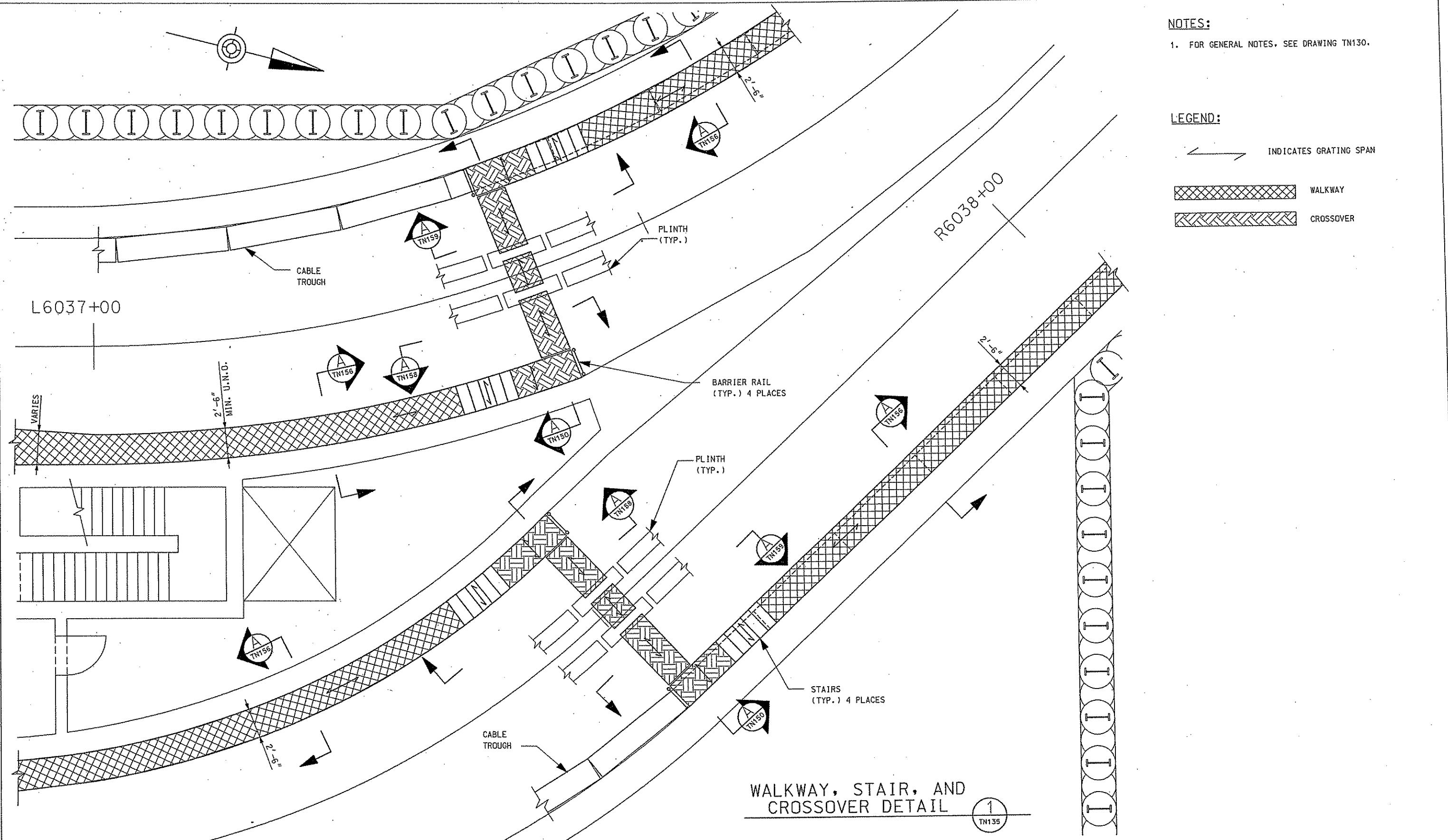
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222D. DeLoach 4/21/08  
APPROVED DATE

DESIGNED RJS
DRAWN NPD
CHECKED WBT
IN CHARGE DPH
DATE APRIL 21, 2008

SCALE 1/8'-0"

8' 4' 0 8'

PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH  
PennsylvaniaNORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
WALKWAY, STAIR, AND CROSSOVER DETAIL PLAN  
SHEET 1 OF 5Port Authority  
CONTRACT NO. NSC-009  
DWG. NO. TN140 SHT. 63

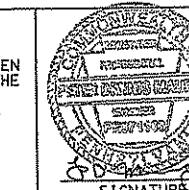


\$TIME\$

\$DATE\$

\$FILE\$

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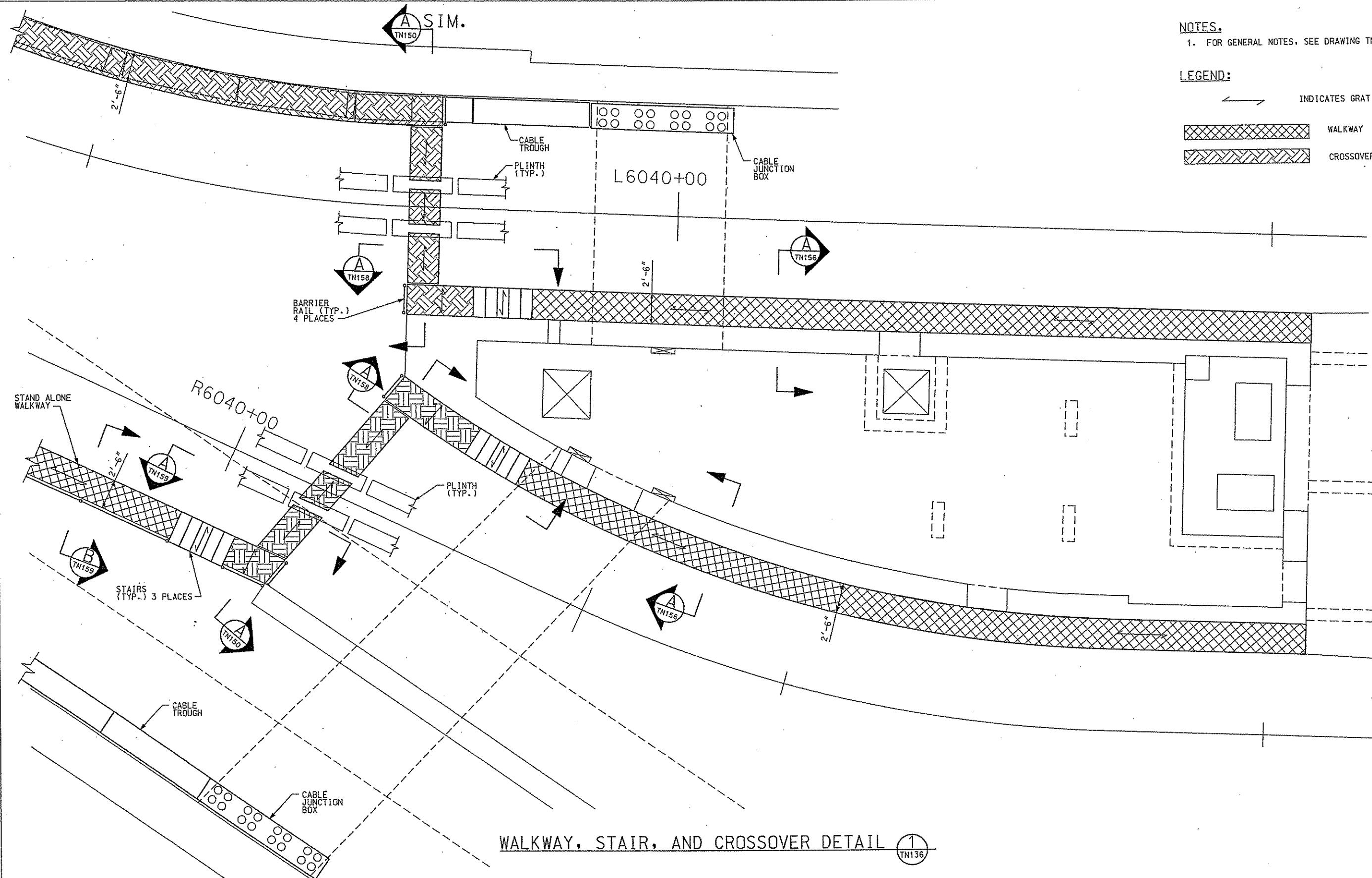


**DMJM HARRIS AECOM**  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*D. D. Harris* 4/21/08  
APPROVED DATE  
SIGNATURE

DESIGNED RJS  
DRAWN NPD  
CHECKED WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1/4"=1'-0"  
4' 2' 0 4'

**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
WALKWAY, STAIR, AND CROSSOVER DETAIL PLAN  
SHEET 2 OF 5  
**Port Authority**  
CONTRACT NO. NSC-009  
DWG. NO. TN141 SHT. 64

NO.	DATE	DESCRIPTION
		REVISIONS



WALKWAY, STAIR, AND CROSSOVER DETAIL

1  
TN136

DMJM HARRIS | AECOM

PETER DENNIS MURPHY  
PROFESSIONAL ENGINEER  
PE071162  
NSCEA  
SIGNATURE

Deed P. Den... 4/21/08  
APPROVED DATE

NOTES:

1. FOR GENERAL NOTES, SEE DRAWING TN130.

LEGEND:

INDICATES GRATING SPAN

WALKWAY

CROSSOVER

\$FILE#

\$DATE#

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.

NO.	DATE	DESCRIPTION	REVISIONS
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PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH  
PENNSYLVANIA

NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
WALKWAY, STAIR, AND CROSSOVER DETAIL PLAN  
SHEET 3 OF 5

Port Authority

CONTRACT NO. NSC-009  
DWG. NO. TN142 SHT. 65

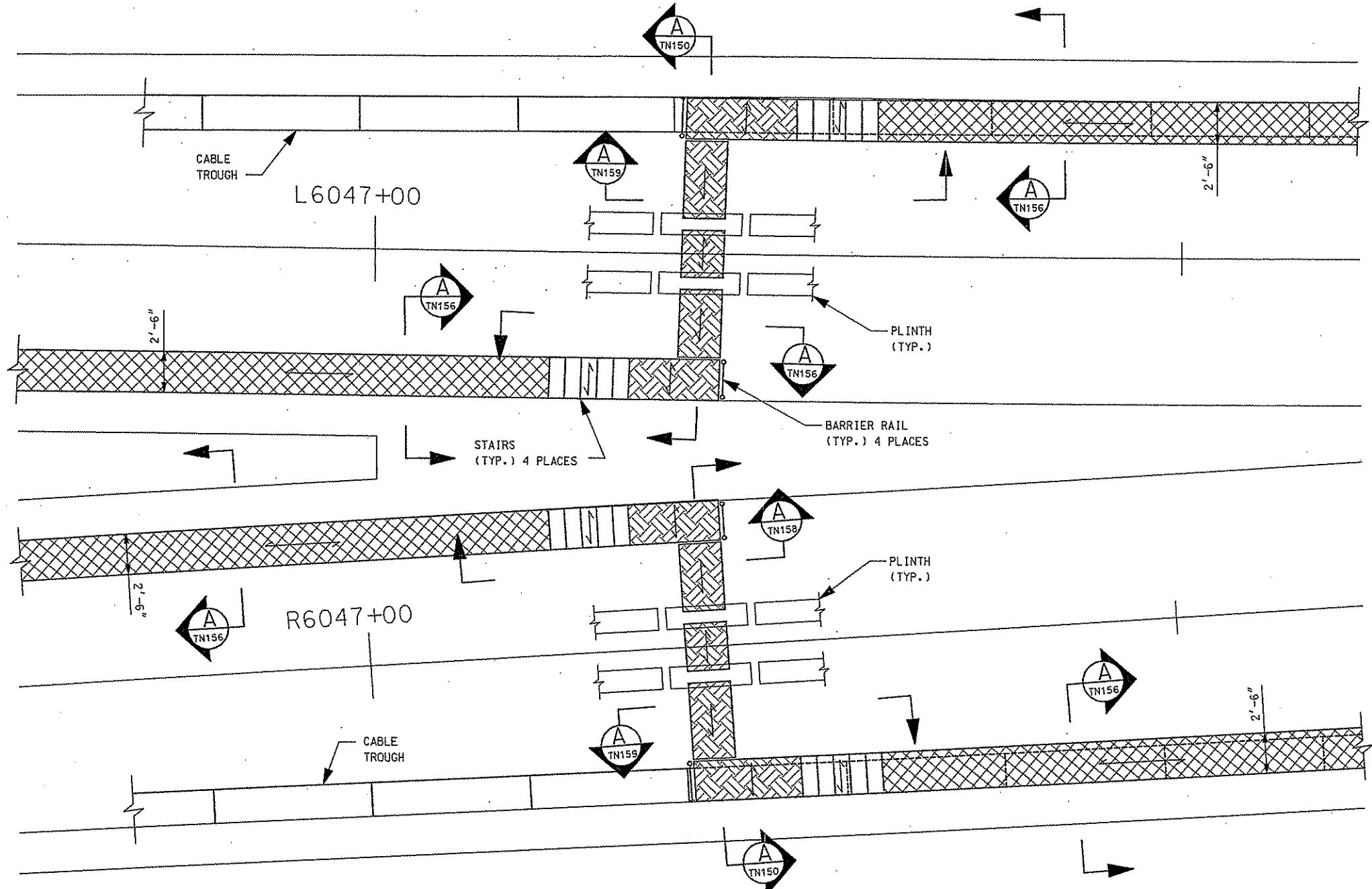
SCALE: 1/4"=1'-0"  
4' 2' 0 4'

**NOTES:**

1. FOR GENERAL NOTES, SEE DRAWING TN 130.

**LEGEND:**

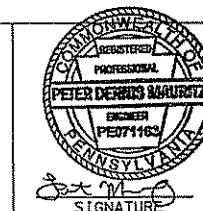
	INDICATES GRATING SPAN
	WALKWAY
	CROSSOVER



\$TIME\$  
\$DATE\$  
\$FILE\$

NO.	DATE	DESCRIPTION	REVISIONS

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DMJM HARRIS | AECOM

FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222

Dad P. Harris  
APPROVED  
4/21/08  
DATE

DESIGNED RJS  
DRAWN NPD  
CHECKED WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1/4=1'-0"  
4' 2' 0' 4'

PORT AUTHORITY OF ALLEGHENY COUNTY  
Pittsburgh, Pennsylvania

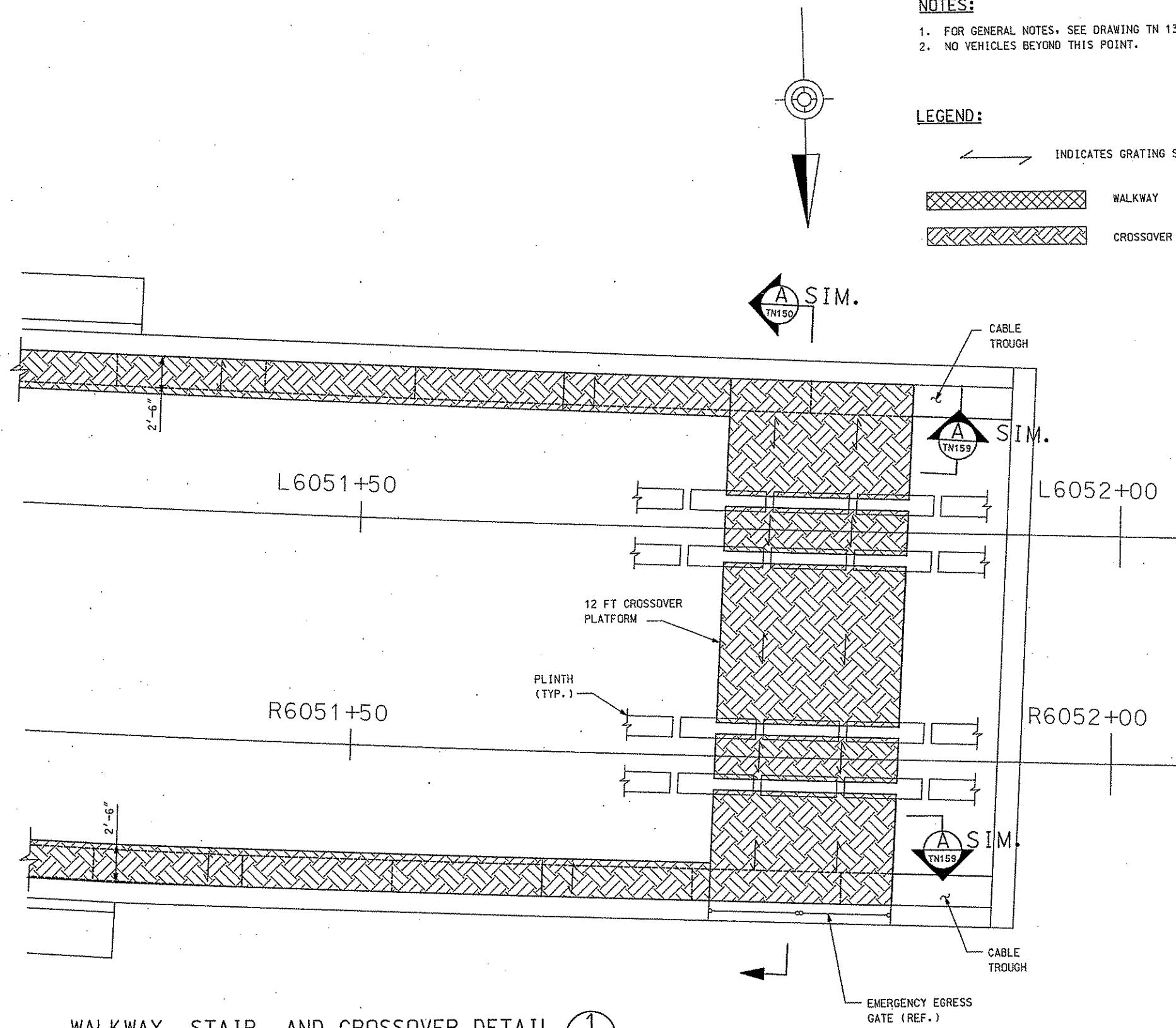
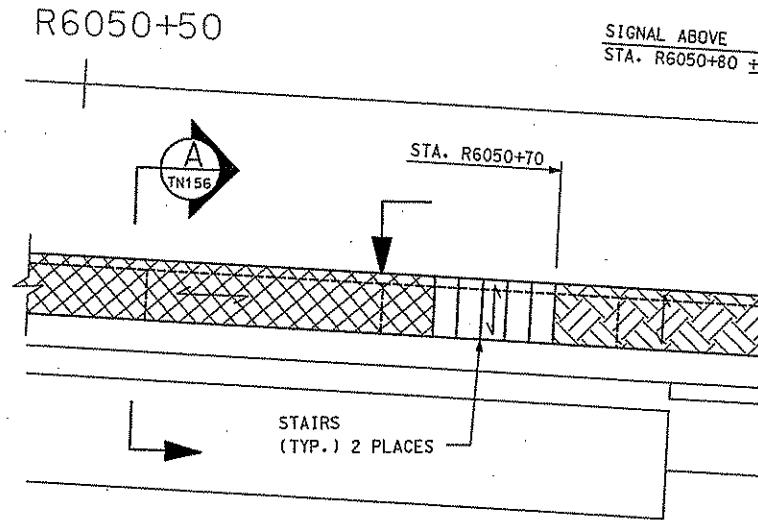
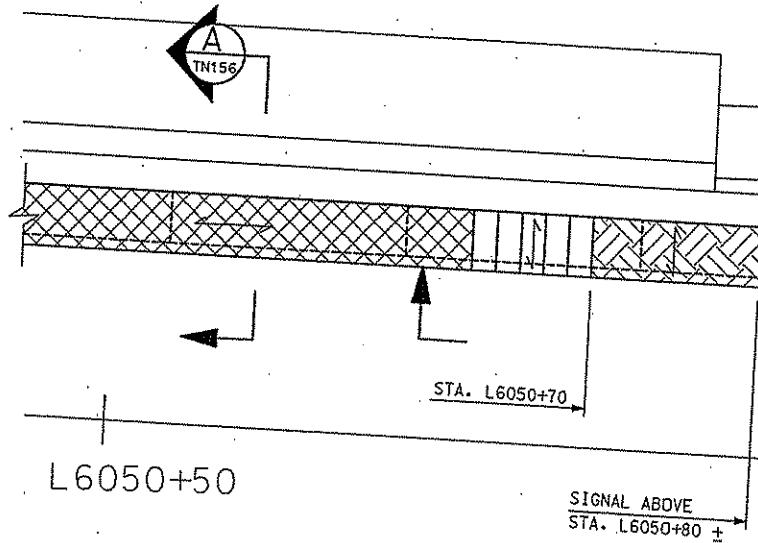
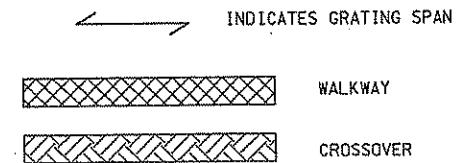
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
WALKWAY, STAIR, AND CROSSOVER DETAIL PLAN  
SHEET 4 OF 5

Port Authority	CONTRACT NO. NSC-009
	DWG. NO. TN143
	SHT. 66

NOTES:

1. FOR GENERAL NOTES, SEE DRAWING TN 130.
2. NO VEHICLES BEYOND THIS POINT.

LEGEND:



WALKWAY, STAIR, AND CROSSOVER DETAIL

1  
TN138

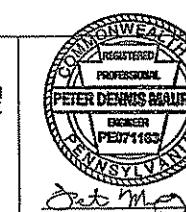
\*TIME\*

\*DATE\*

\*FILE\*

NO.	DATE	DESCRIPTION
REVISIONS		

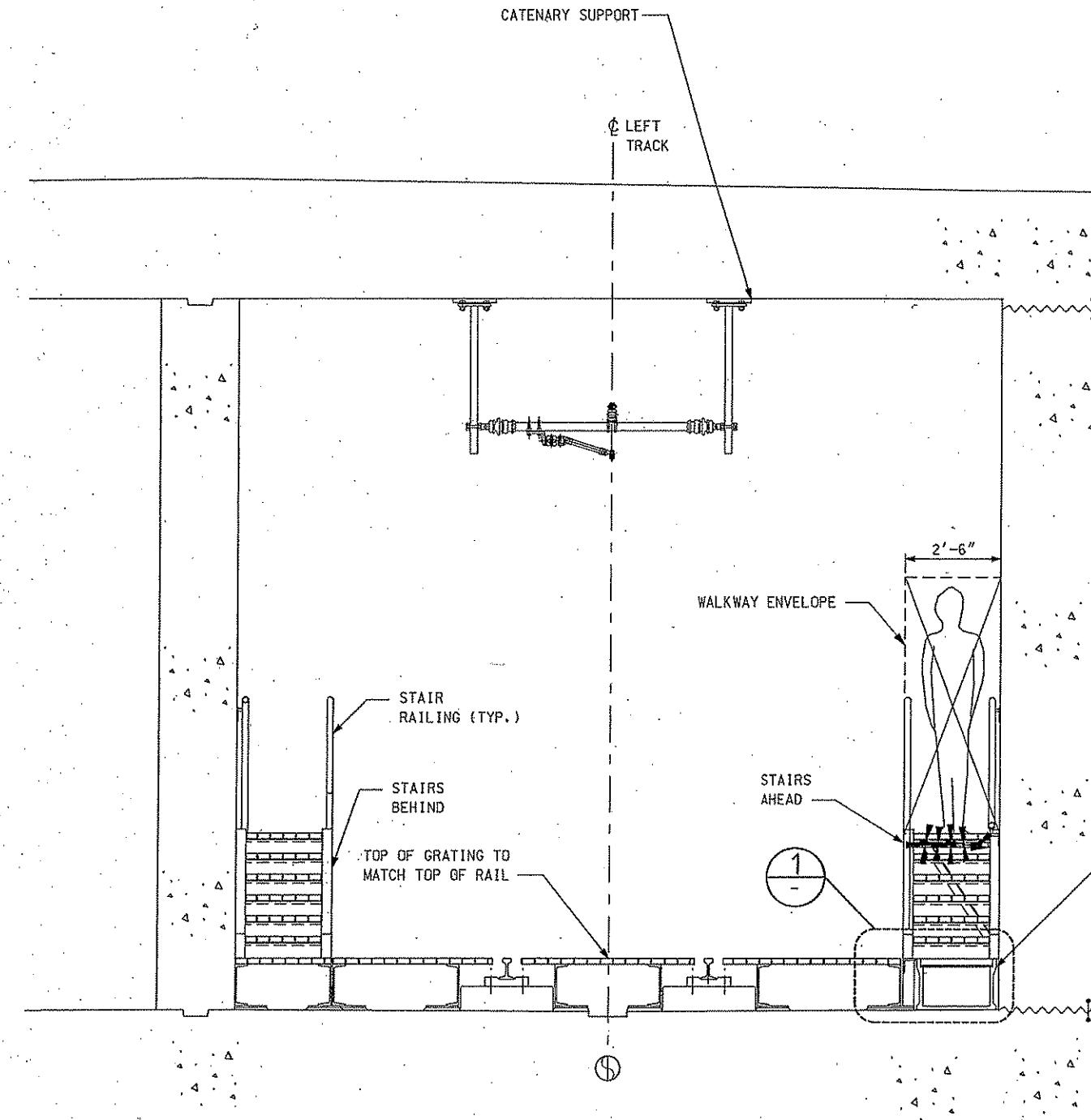
THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*Dael Okui* 4/21/08  
APPROVED DATE

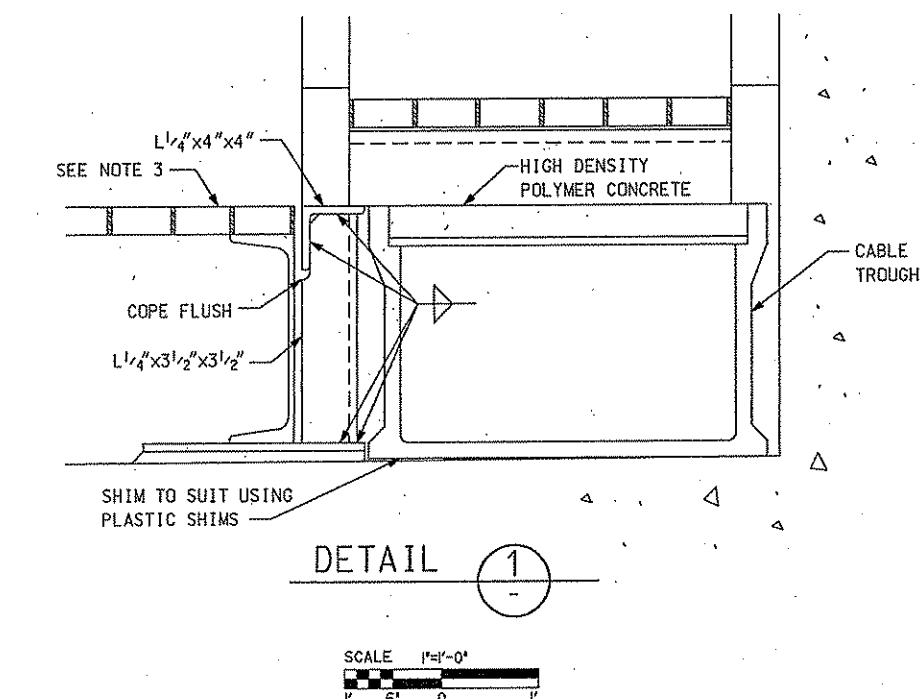
DESIGNED BY  
DRAWN NPD  
CHECKED WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1/4"=1'-0"  
4' 2' 0 4'

**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH PENNSYLVANIA  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
WALKWAY, STAIR, AND CROSSOVER DETAIL PLAN  
SHEET 5 OF 5  
Port Authority  
CONTRACT NO. NSC-009  
DWG. NO. TN144 SHT. 67



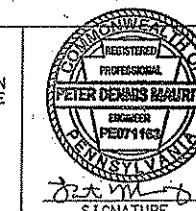
TYPICAL CROSSOVER SECTION A  
TN140 THRU TN144

- NOTES:
1. FOR GENERAL NOTES, SEE DRAWING TN130.
  2. CONTRACTOR TO COORDINATE THE CONDUIT TROUGH AT THE STAIR TO MAINTAIN 2'-6" DIMENSION FOR THE STAIR AND CROSSOVER. EXTRA CARE SHALL BE TAKEN AT CURVED WALL AREAS TO ACCOUNT FOR THE CHORD TO CURVE VARIATIONS.
  3. USE MANUFACTURERS SADDLE CLIP, A MINIMUM OF 2 EACH END.



NO.	DATE	DESCRIPTION
REVISIONS		

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DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED *Dad Pflue* DATE *4/24/08*

DESIGNED RJS  
DRAWN NPD  
CHECKED WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE 1/4"=1'-0"  
4' 2' 0' 4'

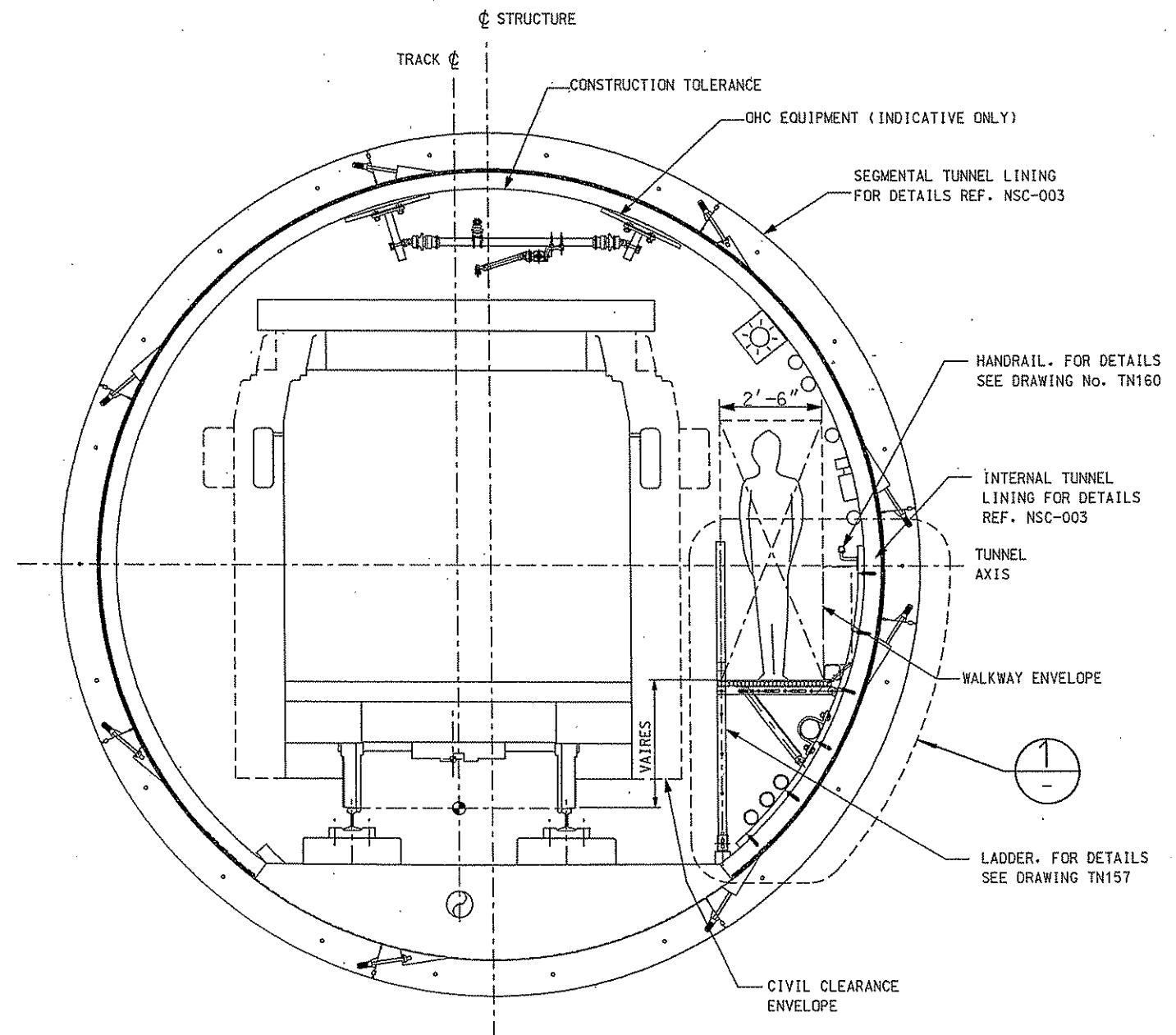
PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH

NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
TUNNEL CROSSOVER SECTION AND DETAILS

Port Authority  
CONTRACT NO. NSC-009  
DWG. NO. TN150 SHT. 68

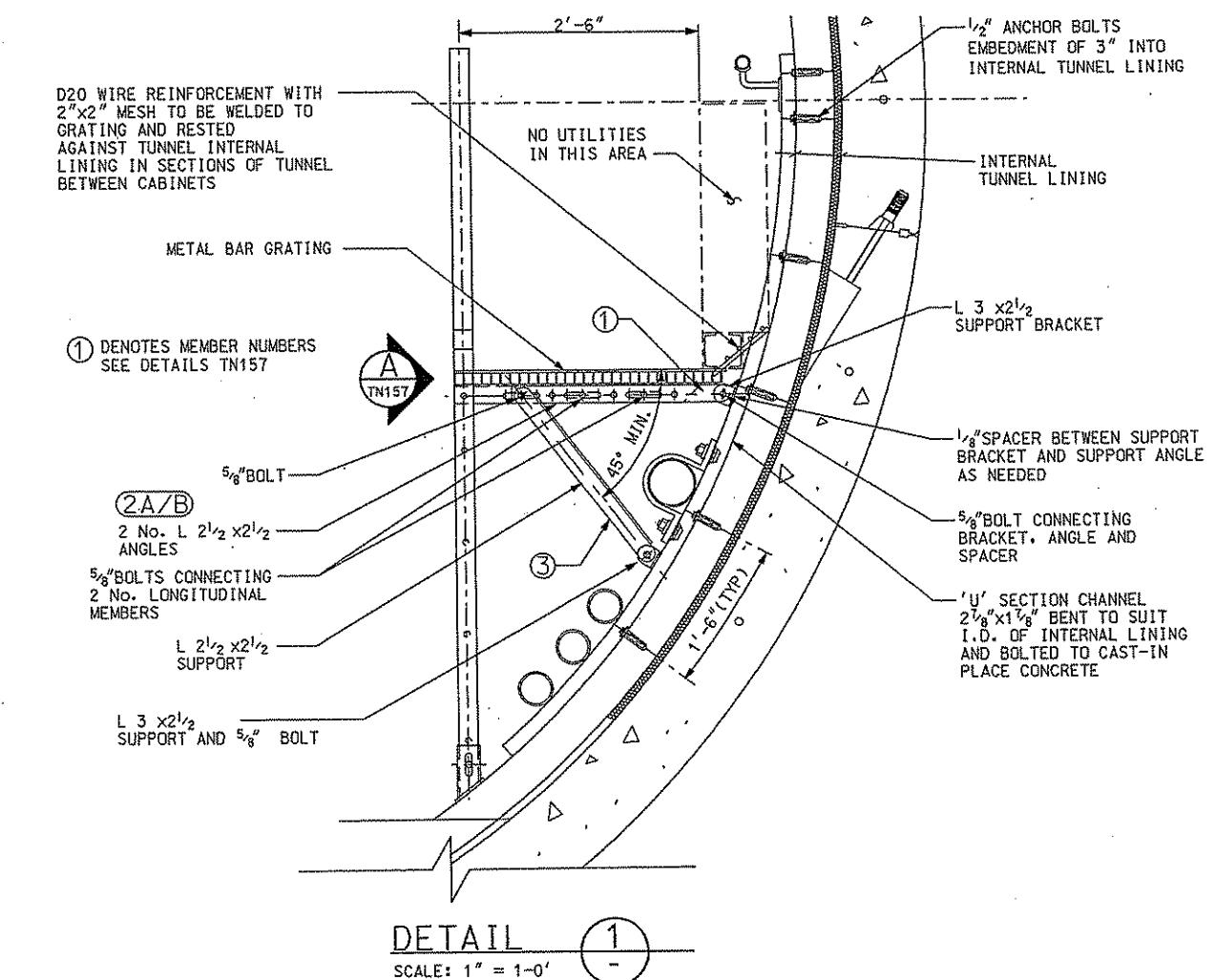
NOTES:

1. FOR GENERAL NOTES, SEE DRAWING TN130.
2. WALKWAY HEIGHT VARIES WITH SUPERELEVATION OF THE TRACK.



WALKWAY AND HANDBRAIL  
TYPICAL BORED TUNNEL SECTION

(A)

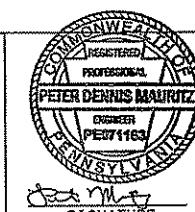


DETAIL

SCALE: 1" = 1-0'

⚠ 1/27/08	REVISION 6 - REVISED CONDUIT LOCATION	
NO. DATE	DESCRIPTION	
	REVISIONS	

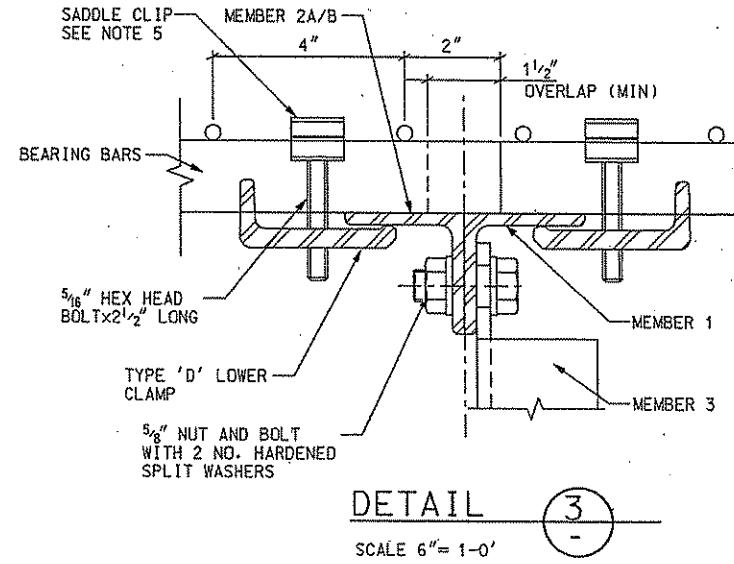
THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED 4/21/08  
DATE 4/21/08  
SIGNATURE  
D. D. Harris

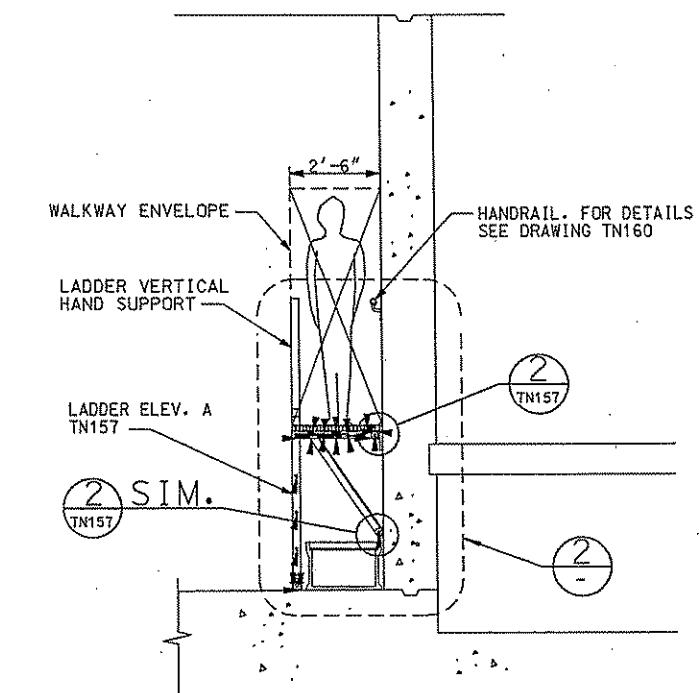
DESIGNED BY	DRAWN BY
PROFESSIONAL PETER DENNIS MAURIZ PENNSYLVANIA	NPD
OWNER PEOTN163	
	WBT
	IN CHARGE DPH
	DATE APRIL 21, 2008
	SCALE 1/2"-1'-0"
	2' 1' 0' 2'

PORT AUTHORITY OF ALLEGHENY COUNTY	
PENNSYLVANIA	
NORTH SHORE CONNECTOR	NSC TRAIN SYSTEMS (SYSTEM WIDE)
TUNNEL CROSS SECTION	
Port Authority	CONTRACT NO. NSC-009
DWG. NO. TN151	SHT. 69



## DETA

SCALE 6" = 1-

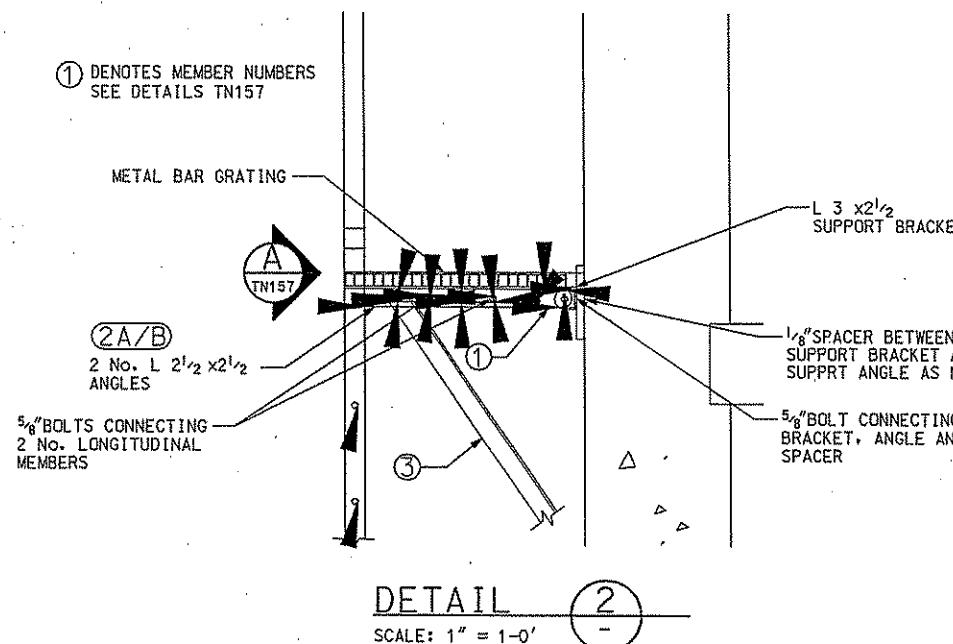


WALKWAY AND HANDRAIL  
TYPICAL CAST IN PLACE SECTION

SCALE  $\frac{3}{8}$ " = 1-0

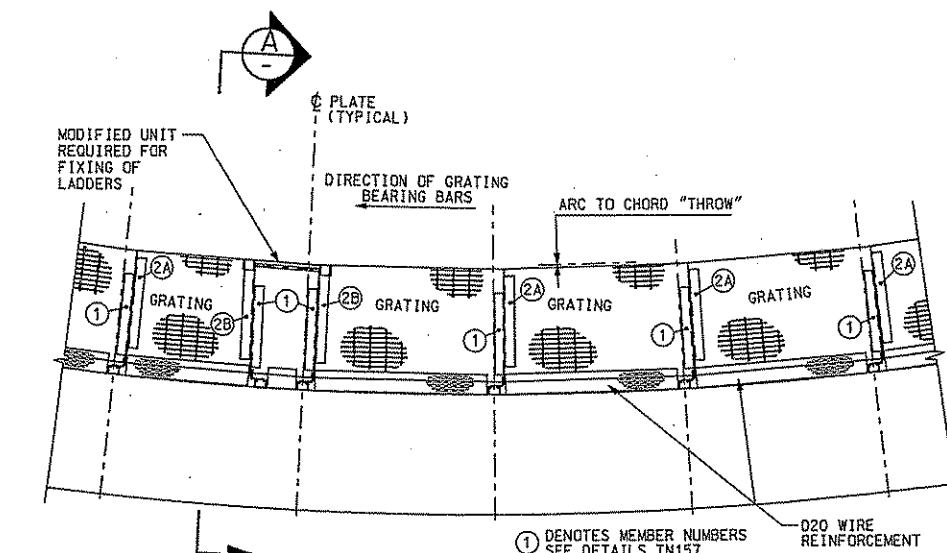
N A  
TN130 THRU TN14

① DENOTES MEMBER NUMBERS  
SEE DETAILS TN157



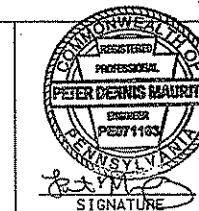
DETA

SCALE: 1" = 1



TYPICAL PLAN ON WALKWA  
(N.T.S.)

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DMJM HARRIS | AECOM

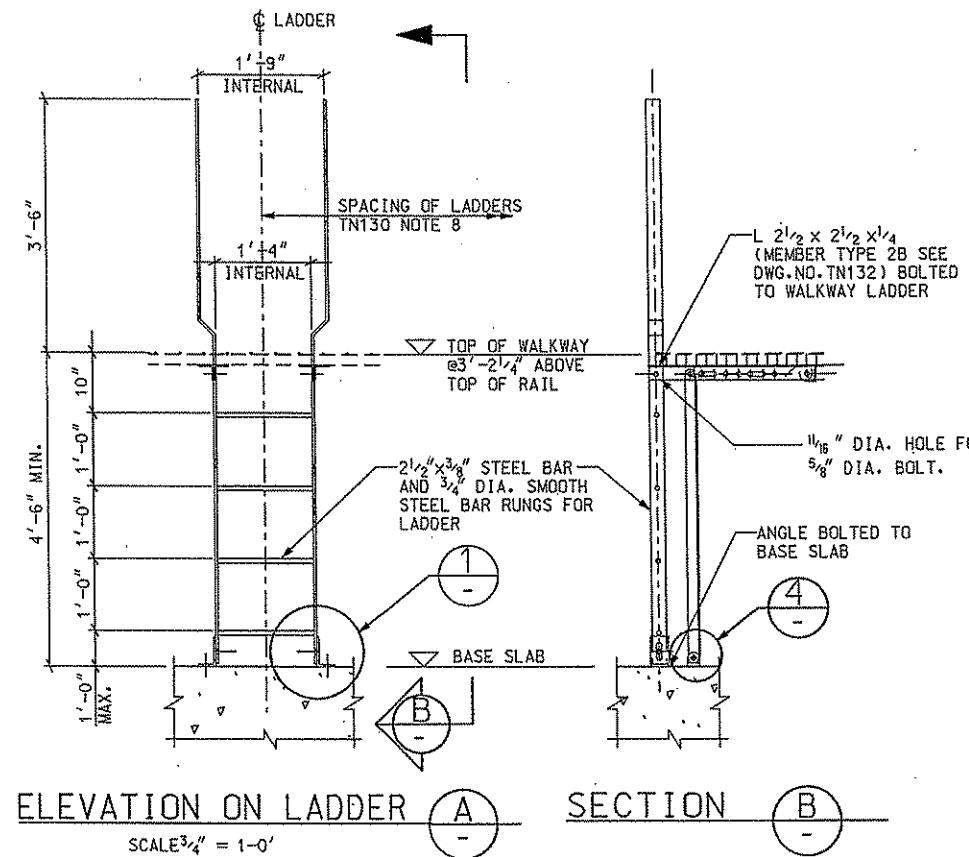
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222

Deol P. Khan 4/21/08

## NOTES.

1. FOR GENERAL NOTES, SEE DRAWING TN130.
  2. LATERAL ADJUSTMENT OF THE DECK IS PROVIDED BY A COMBINATION OF SLOTS AND HOLES IN THE HORIZONTAL ANGLES. THE VERTICAL ANGLE IS TO BE BOLTED TO HORIZONTAL ANGLES THROUGH ONE OF THE TWO FRONT HOLES.
  3. WORK THIS DRAWING WITH TN157.
  4. GRATING PER OHIO GRATING INC. OF CANTON, OHIO OR EQUIVALENT. USE 19-W-4 1 $\frac{1}{2}$ "X1 $\frac{1}{4}$ " SERATED (ADDS  $\frac{1}{4}$ " TO OVERALL HEIGHT) SPAN 4'-0" LG MAXIMUM, NO BANDING REQUIRED.
  5. SADDLE CLIPS TO BE INSTALLED EACH END EACH SIDE PER MANUFACTURER'S SPECIFICATIONS.

- NOTES:**
1. FOR GENERAL NOTES, SEE DRAWING TN130.
  2. ALL CUTTING, DRILLING AND WELDING OF STEELWORK TO BE CARRIED OUT PRIOR TO HOT DIP GALVANIZATION.
  3. ALL WELDS TO BE  $\frac{1}{4}$ " CONTINUOUS FILLETS UNLESS NOTED OTHERWISE.
  4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CONTRACT DRAWINGS FOR CAST IN PLACE TUNNEL SECTIONS FOR CONTRACTS NSC-003, 004, AND 006.
  5. LADDER COMPONENTS TO BE AS SHOWN OR AS PER CHOSEN MANUFACTURERS TYPICAL DETAILS
  6.  $L3x\frac{1}{2}x\frac{1}{4}$ " BRACKETS ARE CLAMPED TO THE STUD WELDED TO THE SURFACE MOUNTED PLATE.

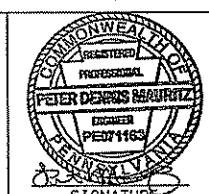


\*TIME\*

\*FILE\*

NO.	DATE	DESCRIPTION
REVISIONS		

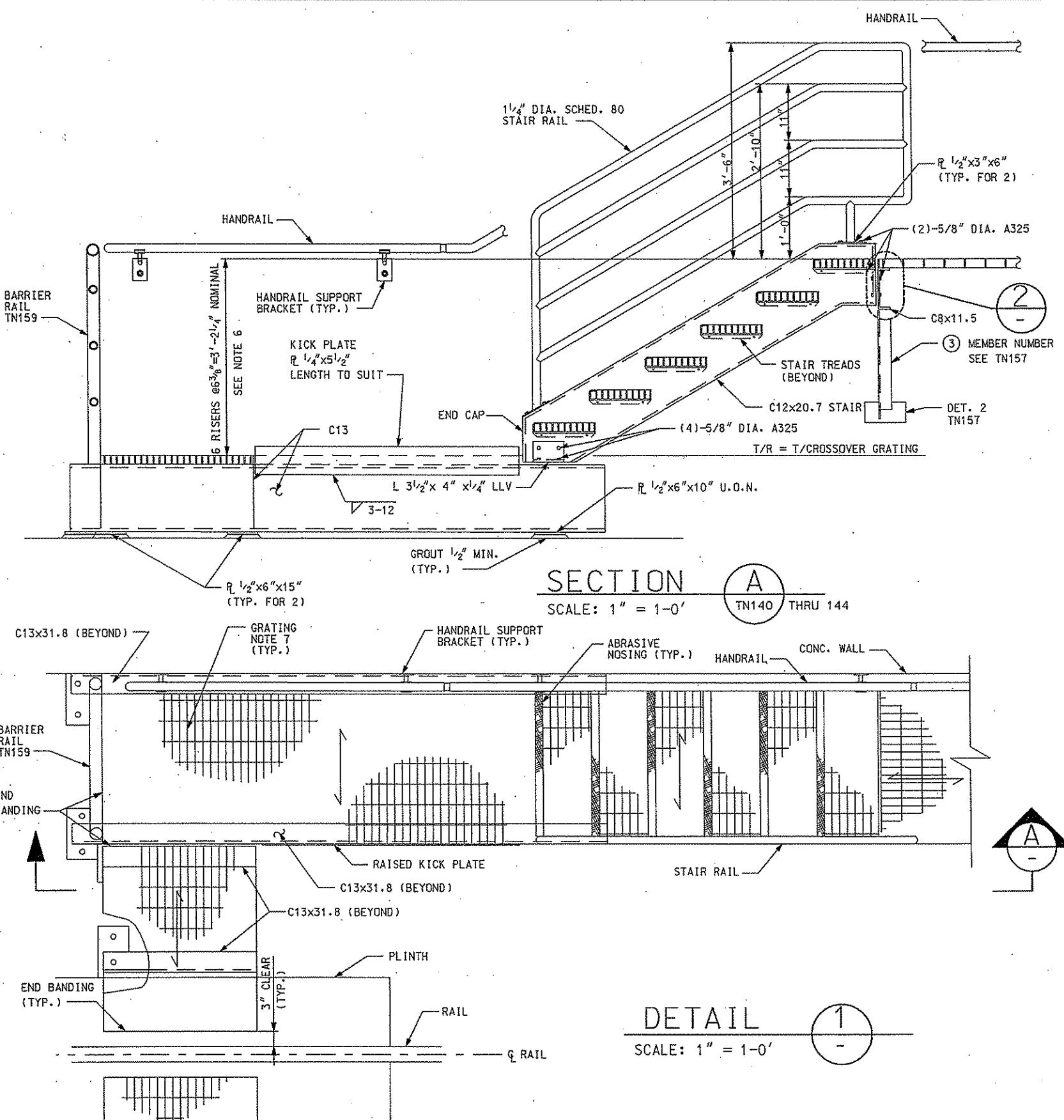
THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*Dolores* APPROVED DATE *4/21/08*

DESIGNED RJS  
DRAWN NPD  
CHECKED WBT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE AS SHOWN

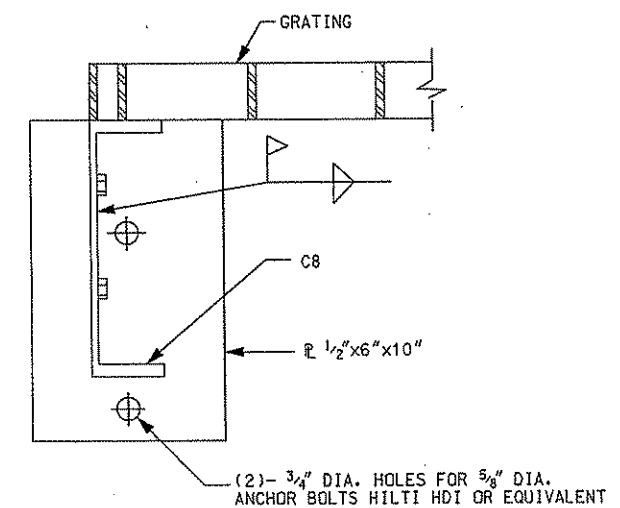
**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH, PENNSYLVANIA  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
TYPICAL WALKWAY DETAILS  
SHEET 2 OF 2  
Port Authority  
CONTRACT NO. NSC-009  
DWG. NO. TN157 SHT. 71



- NOTES:**
1. FOR GENERAL NOTES, SEE DRAWING TN130.
  2. ALL CUTTING, DRILLING AND WELDING OF STEELWORK TO BE CARRIED OUT PRIOR TO HOT DIP GALVANIZATION WHEREVER POSSIBLE. TOUCH UP GALVANIZE IN FIELD AS NECESSARY.
  3. ALL WELDS TO BE  $\frac{1}{4}$ " CONTINUOUS FILLETS UNLESS OTHERWISE NOTED.
  4. HANDRAIL TO BE GRADE B SEAMLESS HOT DIPPED GALVANIZED STEEL PIPE TO ASTM A53.
  5. ALL STEELWORK TO BE HOT DIPPED GALVANIZED TO AASHTO M270 (ASTM A709) UNLESS NOTED OTHERWISE.
  6. ADJUST RISERS AS REQUIRED WHERE THE TRACK SUPERELEVATES USING EQUAL HEIGHT RISERS.
  7. GRATING PER OHIO GRATING INC. OF CANTON, OHIO OR EQUIVALENT. USE 19-W-4 1 1/2" x 1/4" SERATED (ADDS  $\frac{1}{4}$ " TO OVERALL HEIGHT) SPAN 4'-0" LG MAX. WITHOUT BANDING.

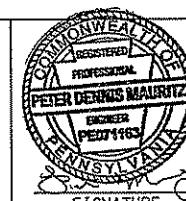
**LEGEND:**

INDICATES GRATING SPAN



**DETAIL**

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



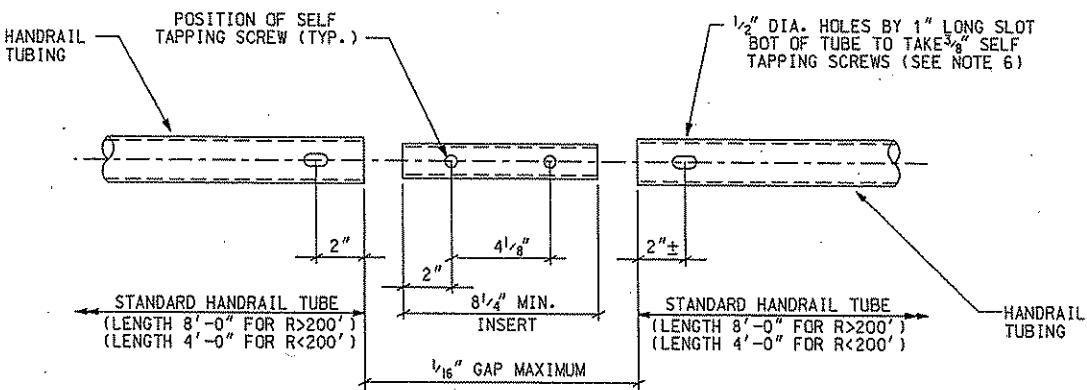
DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*David Harris* APPROVED 4/21/08 DATE

PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH

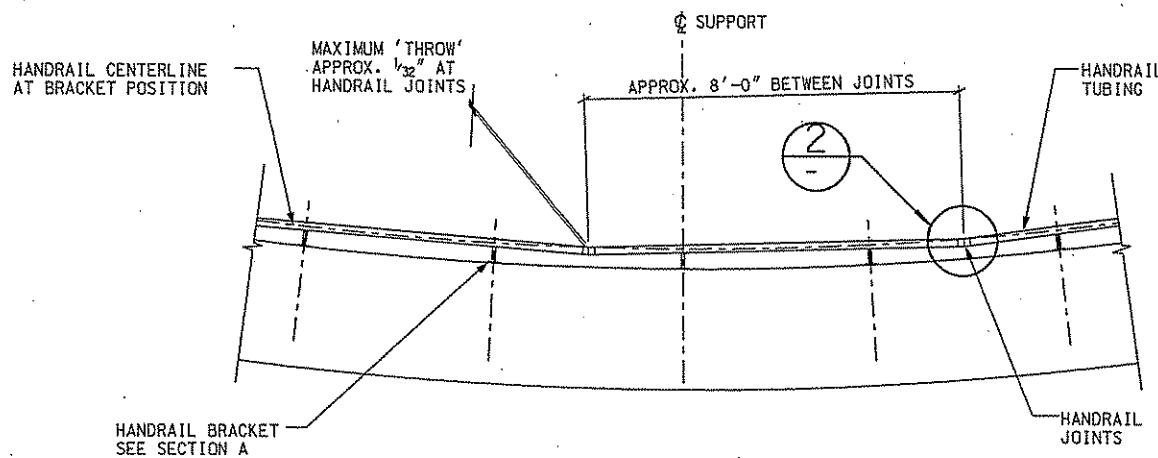
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
STAIR AND CROSSOVER DETAILS  
SHEET 1 OF 2

Port Authority CONTRACT NO. NSC-009  
DWG. NO. TN158 SHT. 72

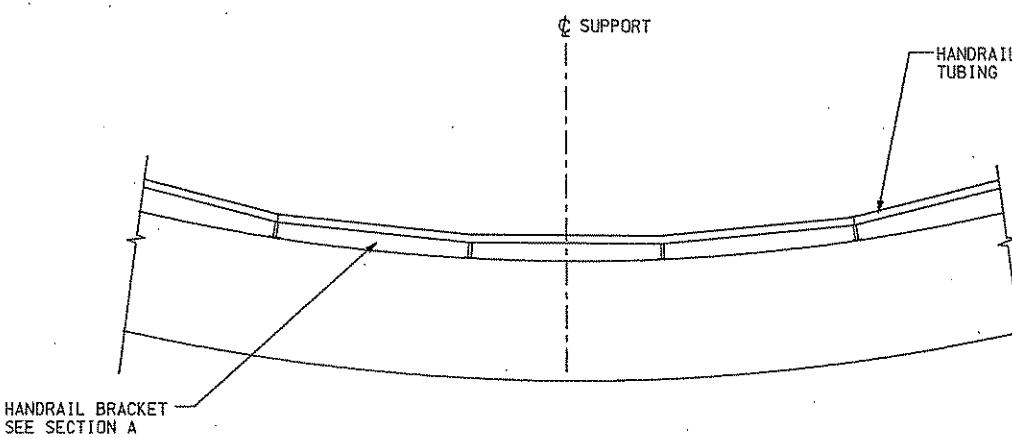




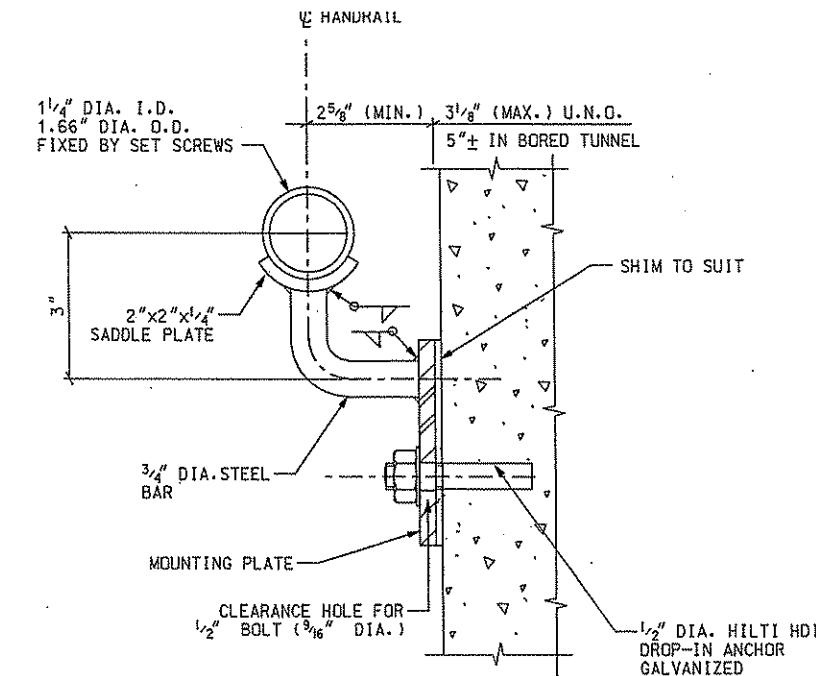
HANDRAIL JOINT DETAIL 2  
SCALE 3" = 1-0'



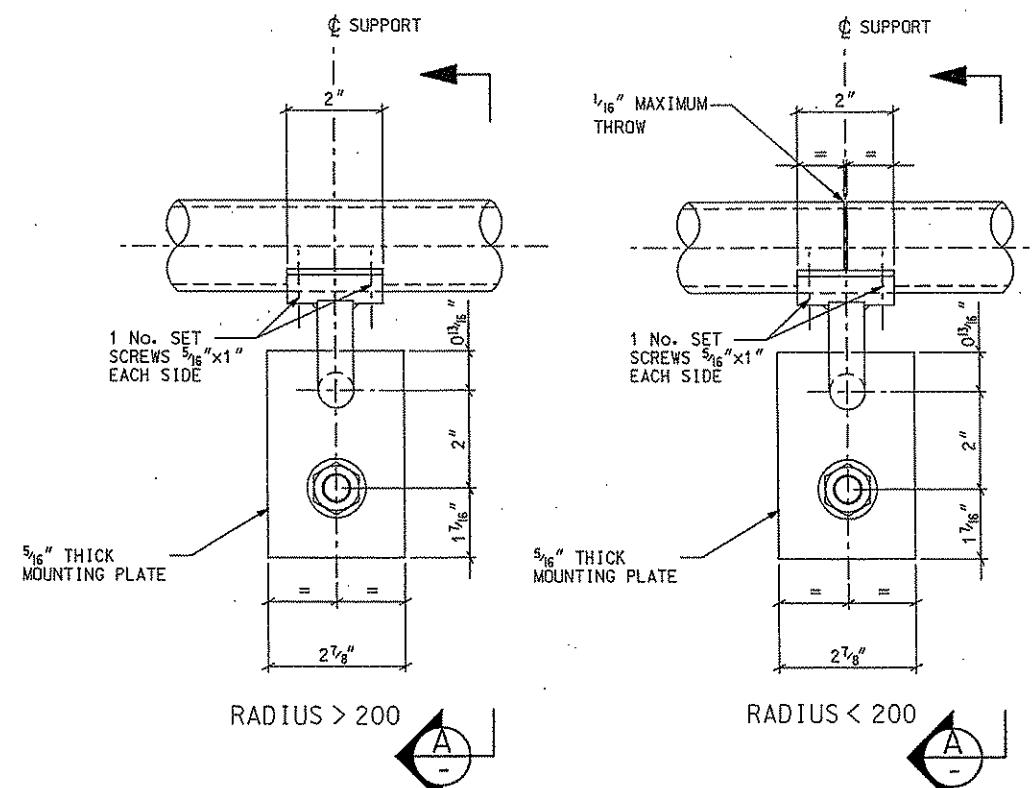
PLAN ON HANDRAIL FOR TUNNEL RADIUS >200'



PLAN ON HANDRAIL FOR TUNNEL RADIUS <200'



SECTION A

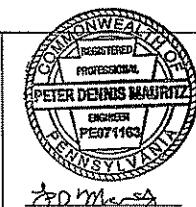


HANDRAIL SUPPORT BRACKET DETAIL

SCALE 6" = 1-0'

NO.	DATE	DESCRIPTION	REVISIONS

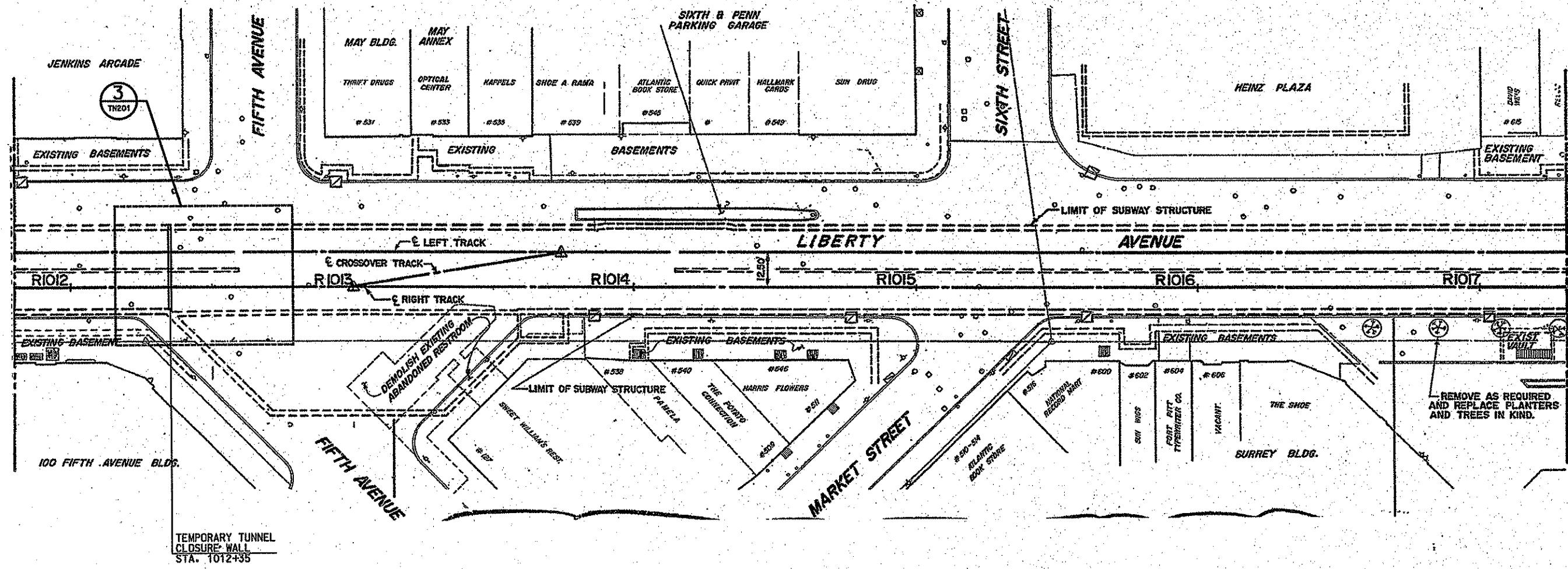
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DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED *Dale Henrich* DATE *4/21/08*

- NOTES:
1. FOR GENERAL NOTES, SEE DRAWING TN130.
  2. ALL CUTTING, DRILLING AND WELDING OF STEELWORK TO BE CARRIED OUT PRIOR TO HOT DIP GALVANIZATION WHEREVER POSSIBLE. TOUCH UP GALVANIZE IN FIELD AS NECESSARY.
  3. ALL WELDS TO BE 1/8" CONTINUOUS FILLETS UNLESS OTHERWISE NOTED.
  4. HANDRAIL TO BE GRADE B SEAMLESS HOT DIPPED GALVANIZED STEEL PIPE TO ASTM A53.
  5. ALL STEELWORK TO BE HOT DIPPED GALVANIZED TO AASHTO M270 (ASTM A709) UNLESS NOTED OTHERWISE.
  6. INSTALL SELF TAPPING SCREW IN CENTER OF SLOTTED HOLE, FINGER TIGHT.

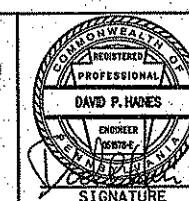
PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
CAST-IN PLACE TUNNEL HANDRAIL DETAILS  
CONTRACT NO. NSC-009  
DWG. NO. TN160 SHT. 74



NOTE: DRAWING IS TAKEN FROM PAAC STAGE I LIGHT RAIL TRANSIT SYSTEM,  
LIBERTY AVENUE SUBWAY AND GATEWAY CENTER SHELL CONSTRUCTION  
CONTRACT NO. CA-450 DATED 1981.

NO.	DATE	DESCRIPTION	REVISIONS

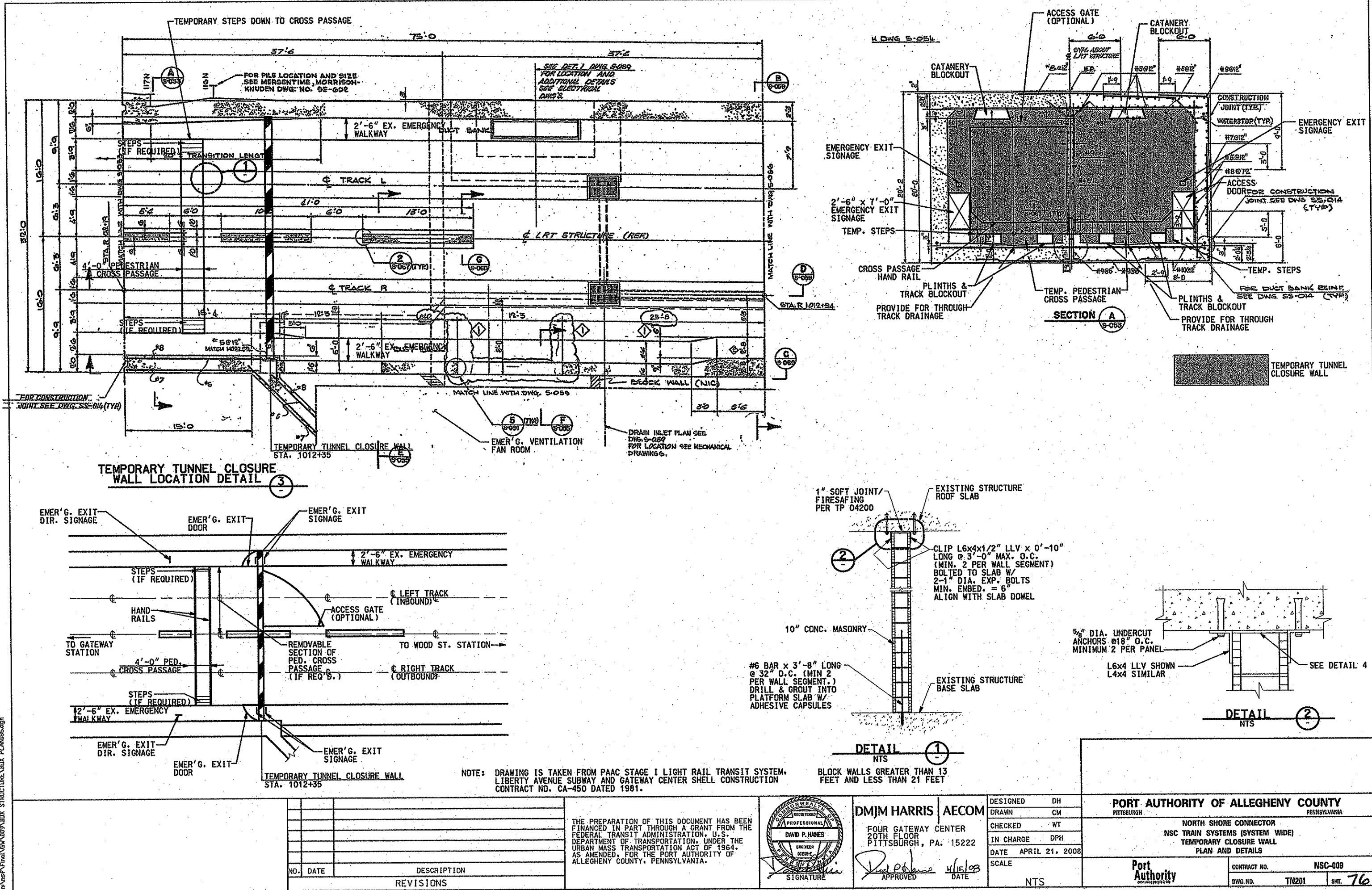
THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
APPROVED *Del P. Hanes* *4/16/08*

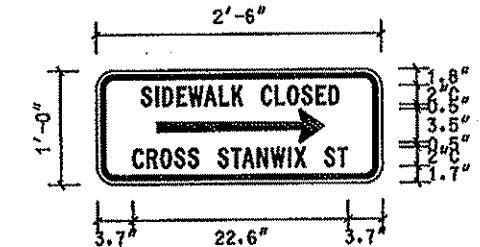
DESIGNED DH  
DRAWN CM  
CHECKED WT  
IN CHARGE DPH  
DATE APRIL 21, 2008  
SCALE NTS

PORT AUTHORITY OF ALLEGHENY COUNTY  
PITTSBURGH  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM-WIDE)  
TEMPORARY CLOSURE WALL  
LOCATION MAP  
Port Authority  
CONTRACT NO. NSC-009  
DWG. NO. TN200  
SHT. 75



**NOTES:**

1. DETAILS ON THIS DRAWING TO BE COORDINATED WITH INFORMATION CONTAINED IN TECHNICAL PROVISION 01784. "TEMPORARY PEDESTRIAN ACCOMMODATIONS. FENCE AND BARRICADE."
  2. INFORMATION CONTAINED HEREIN SHOWS DESIGN INTENT ONLY. THE CONTRACTOR SHALL PROVIDE ALL FINAL DESIGN AND REQUIRED SUBMITTALS PERTAINING TO TEMPORARY PEDESTRIAN ACCOMMODATIONS, INCLUDING CONSTRUCTION DETAILS, WORKING DRAWINGS, CALCULATIONS, TECHNICAL LITERATURE, AND MATERIAL SAMPLES, IN ACCORDANCE WITH TECHNICAL PROVISION 01784 AND SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER AND THE CITY OF PITTSBURGH DEPARTMENT OF ENGINEERING AND CONSTRUCTION.



SPECIAL PEDESTRIAN SIGNS ARE BLACK  
NON REFLECTIVE LEGEND AND BORDER  
ON WHITE TYPE VII REFLECTIVE SHEETING  
0.625" BORDER WITH 1.5" CORNER RADII



R9-11  
12" x 2"

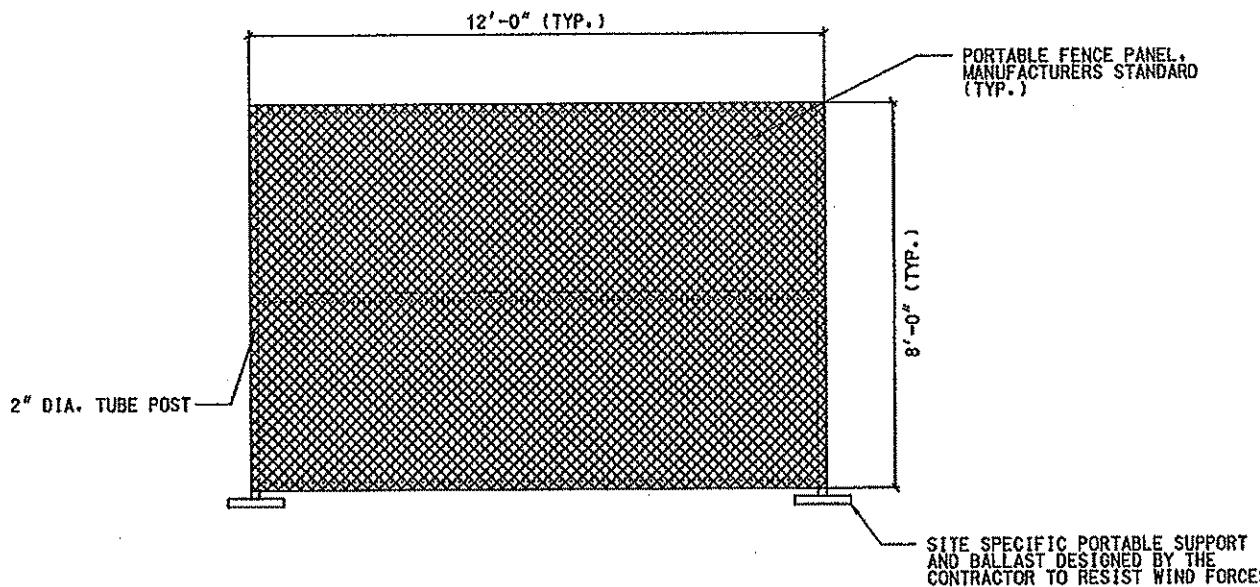
DETAIL. 4  
HT302



R9-11  
12" x 24"

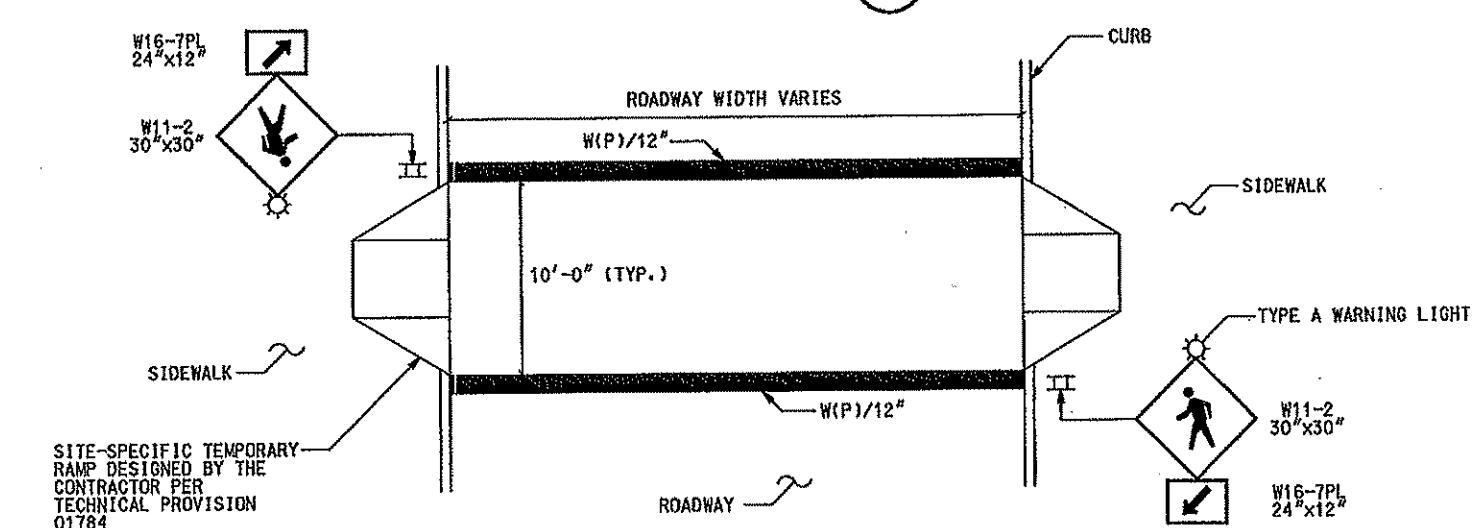
DETAIL 3  
MT301

S	4.6	C	3.7
I	6.1	R	5.2
D	6.8	D	6.6
E	6.4	S	8.1
W	9.6	S	9.5
A	11.2		
L	12.8	S	12.6
K	14.1	T	14
			A 15.1
C	17.2	N	16.7
L	18.6	W	18.2
O	20	I	20
S	21.4	X	20.7
E	23		
D	24.3	S	23.8
		T	25.3
L	20.8		
		L	22.6



## CONSTRUCTION FENCE, CHAIN-LINK MESH ON PORTABLE SUPPORTS DETAIL

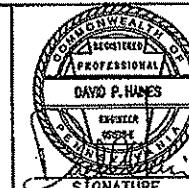
5  
1730



## TEMPORARY CROSSWALK DETAIL

2  
MT301

THE PREPARATION OF THIS DOCUMENT HAS BEEN  
FINANCED IN PART THROUGH A GRANT FROM THE  
FEDERAL TRANSIT ADMINISTRATION, U.S.  
DEPARTMENT OF TRANSPORTATION, UNDER THE  
URBAN MASS TRANSPORTATION ACT OF 1964,  
AS AMENDED, FOR THE PORT AUTHORITY OF  
ALLEGHENY COUNTY, PENNSYLVANIA.



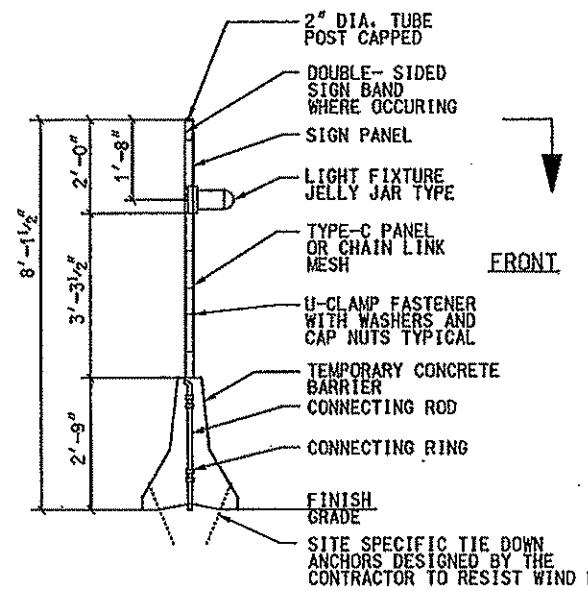
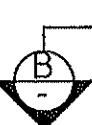
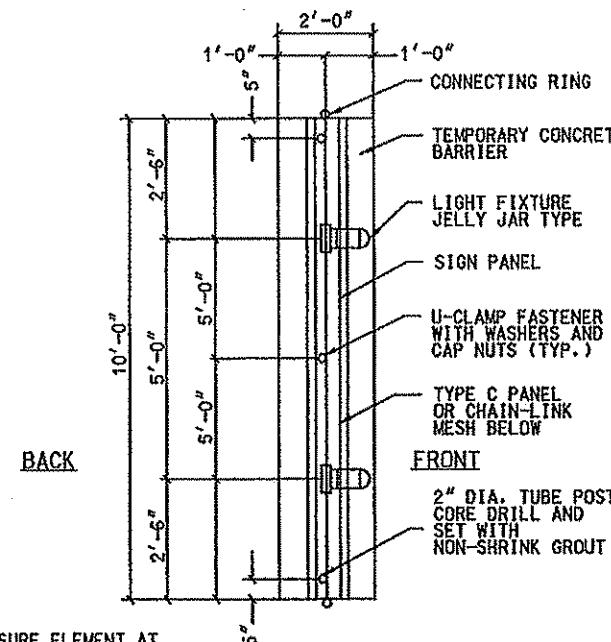
**DMJM HARRIS | AECOM**

Dad D. Green 4/28/08  
APPROVED DATE

**PORT AUTHORITY OF ALLEGHENY COUNTY**

**NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
TRAFFIC CONTROL PLAN  
TEMPORARY PEDESTRIAN ACCOMMODATION DETAILS**

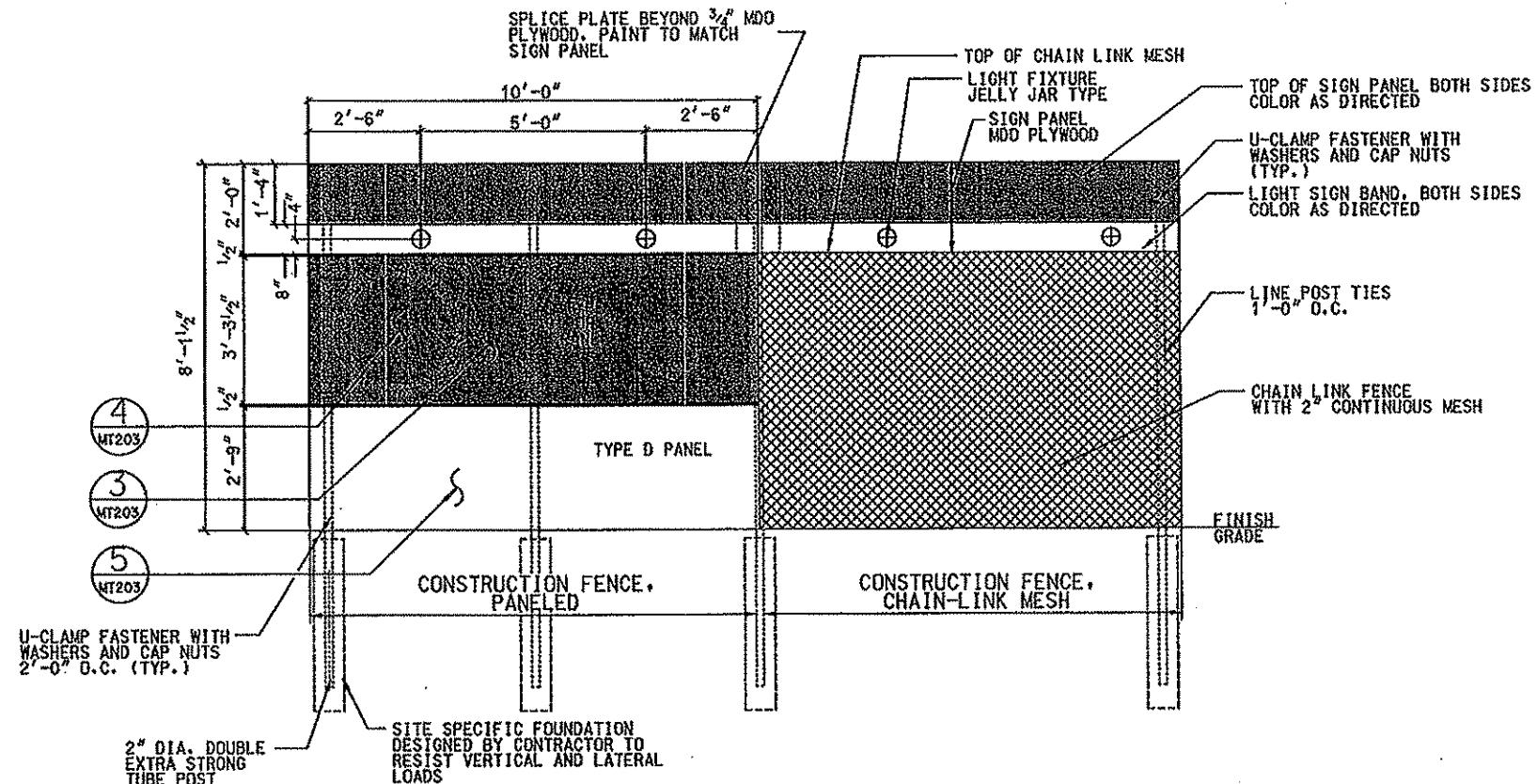
<b>Port Authority</b> of New York & New Jersey	CONTRACT NO.	NSC-609	
	DWG. NO.	MT101	SHT. 77

**CONSTRUCTION BARRICADE SECTION A**

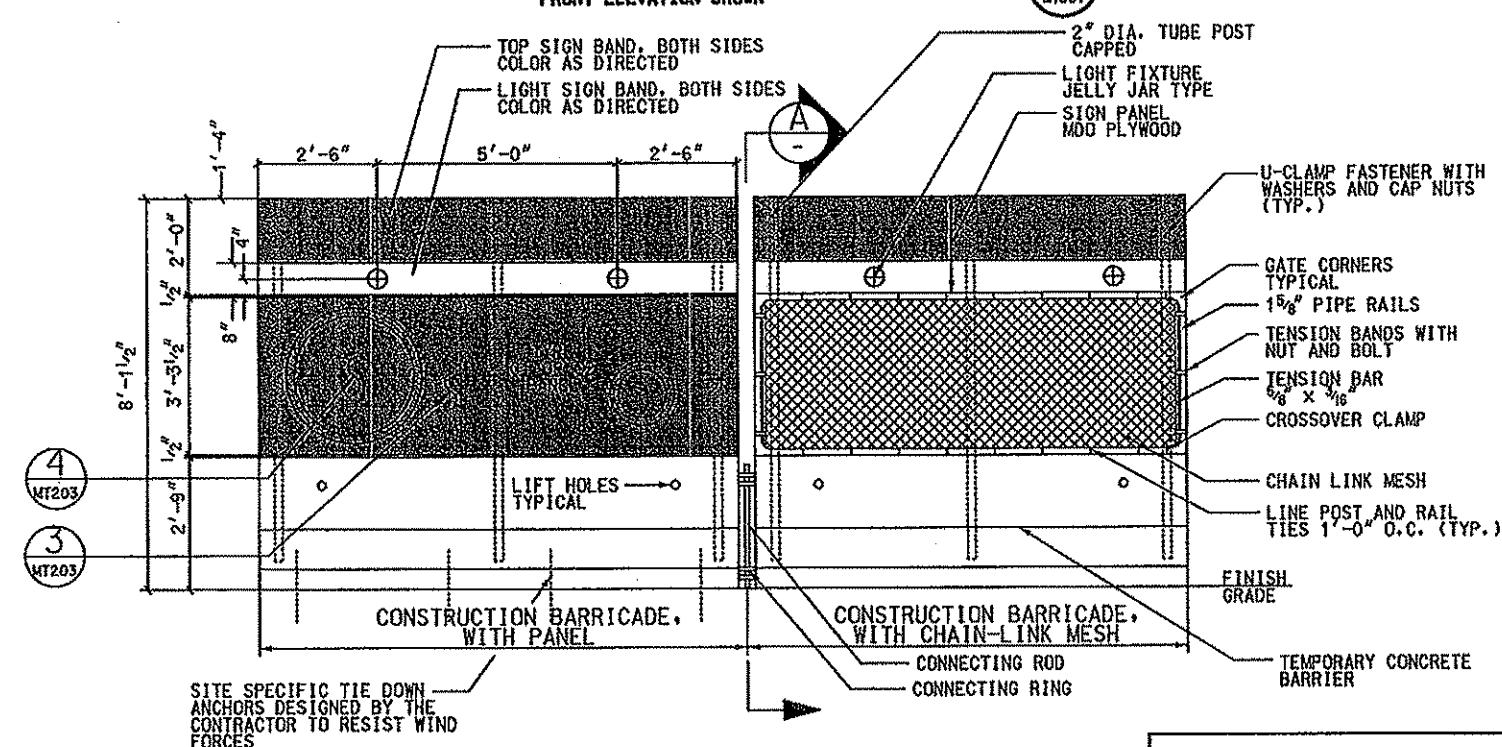
CONTRACTOR TO PROVIDE CLOSURE ELEMENT AT ANGLED INSECTIONS OF CONSTRUCTION BARRICADES

**CONSTRUCTION BARRICADE SECTION B****NOTES:**

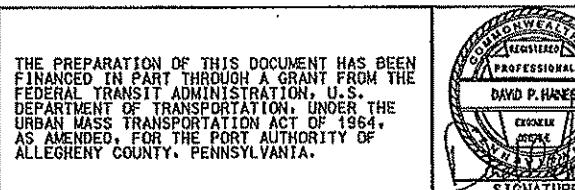
- DETAILS ON THIS DRAWING TO BE COORDINATED WITH INFORMATION CONTAINED IN TECHNICAL PROVISION 01784, "TEMPORARY PEDESTRIAN ACCOMMODATIONS, FENCE AND BARRICADE."
- INFORMATION CONTAINED HEREIN SHOWS DESIGN INTENT ONLY. THE CONTRACTOR SHALL PROVIDE ALL FINAL DESIGN AND REQUIRED SUBMITTALS PERTAINING TO TEMPORARY PEDESTRIAN ACCOMMODATIONS, INCLUDING CONSTRUCTION DETAILS, WORKING DRAWINGS, CALCULATIONS, TECHNICAL LITERATURE, AND MATERIAL SAMPLES, IN ACCORDANCE WITH TECHNICAL PROVISION 01784 AND SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER AND THE CITY OF PITTSBURGH DEPARTMENT OF ENGINEERING AND CONSTRUCTION.

**CONSTRUCTION FENCE DETAIL**

FRONT ELEVATION SHOWN

1  
MT301**CONSTRUCTION BARRICADE DETAIL**

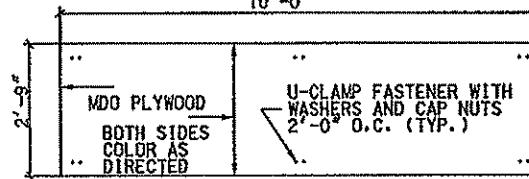
FRONT ELEVATION SHOWN

2  
MT302

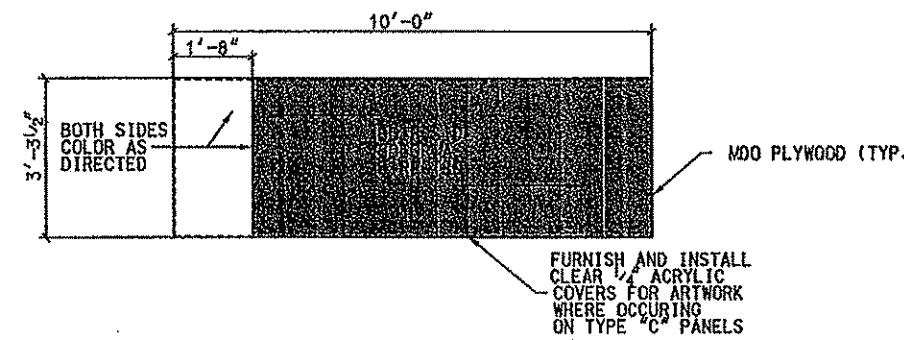
DMJM HARRIS AECON  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
DAD  
APPROVED  
DATE  
14/28/08

DESIGNED JHL  
DRAWN EJC  
CHECKED JDM  
IN CHARGE DPH  
DATE APRIL 26, 2008  
SCALE NTS

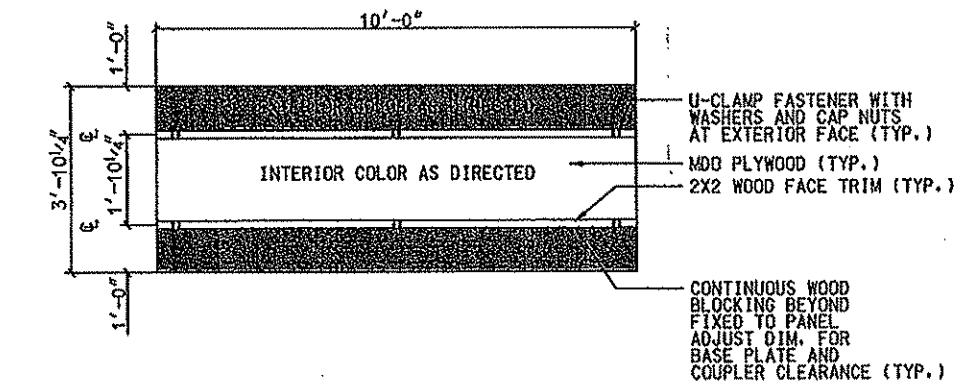
**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PENNSYLVANIA  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
TRAFFIC CONTROL PLAN  
TEMPORARY PEDESTRIAN ACCOMMODATION DETAILS (2 OF 3)  
**Port Authority**  
CONTRACT NO. NSC-009  
DIA. NO. MT102 SHT. 78



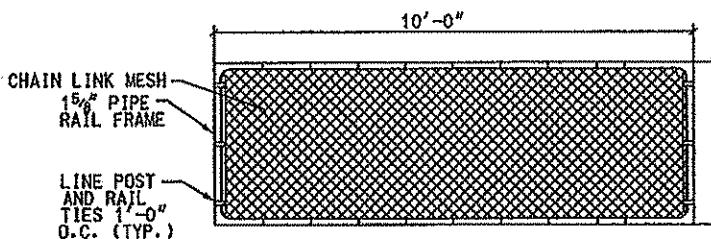
**PANEL TYPE "D" DETAIL** 5  
FOR USE WITH CONSTRUCTION FENCE, PANELED  
MT202



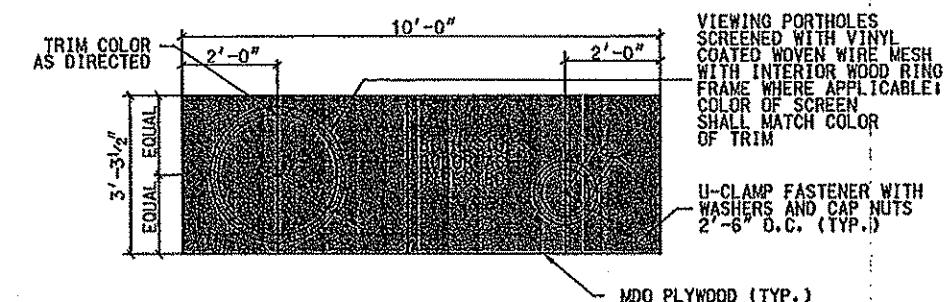
**PANEL TYPE "C1" DETAIL** 3  
FOR ADDITIONAL INFORMATION SEE PANEL TYPE "C2"  
MT202



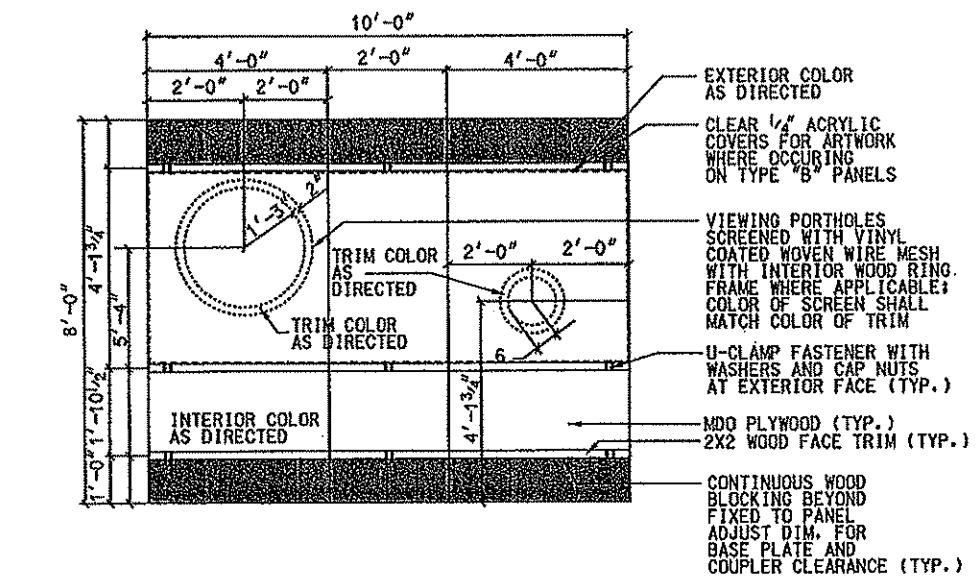
**PANEL TYPE "A" DETAIL** 1  
FOR USE WITH COVERED WALKWAY  
PER TECHNICAL PROVISION 01784



**PANEL TYPE "E" DETAIL** 6  
FOR USE WITH COVERED WALKWAY  
PER TECHNICAL PROVISION 01784



**PANEL TYPE "C2" DETAIL** 4  
FOR USE WITH CONSTRUCTION FENCE, PANELED,  
AND WITH CONSTRUCTION BARRICADE, WITH PANELS  
MT202

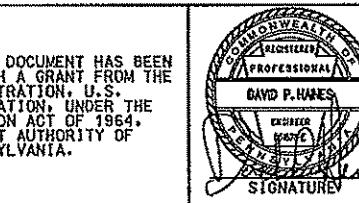


**PANEL TYPE "B" DETAIL** 2  
FOR USE WITH COVERED WALKWAY  
PER TECHNICAL PROVISION 01784  
TYPE B1- NO VIEWING PORTHOLES  
TYPE B2- WITH VIEWING PORTHOLES

**NOTES:**

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- INFORMATION CONTAINED HEREIN SHOWS DESIGN INTENT ONLY. THE CONTRACTOR SHALL PROVIDE ALL FINAL DESIGN AND REQUIRED SUBMITTALS PERTAINING TO TEMPORARY PEDESTRIAN ACCOMMODATIONS, INCLUDING CONSTRUCTION DETAILS, WORKING DRAWINGS, CALCULATIONS, TECHNICAL LITERATURE, AND MATERIAL SAMPLES, IN ACCORDANCE WITH TECHNICAL PROVISION 01784 AND SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER AND THE CITY OF PITTSBURGH DEPARTMENT OF ENGINEERING AND CONSTRUCTION.

NO.	DATE	DESCRIPTION	THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.		
			REVISIONS	REVISIONS	REVISIONS



DMJM HARRIS | AECOM  
FOUR GATEWAY CENTER  
20TH FLOOR  
PITTSBURGH, PA. 15222  
*David P. Harris*  
APPROVED 4/28/08  
SIGNATURE DATE

4/28/08  
APPROVED  
SIGNATURE  
DATE

**PORT AUTHORITY OF ALLEGHENY COUNTY**  
PITTSBURGH  
NORTH SHORE CONNECTOR  
NSC TRAIN SYSTEMS (SYSTEM WIDE)  
TRAFFIC CONTROL PLAN  
TEMPORARY PEDESTRIAN ACCOMMODATION DETAILS (3 OF 3)  
**Port Authority** CONTRACT NO. NSC-009  
DRAWING NO. MT103 SHEET 79