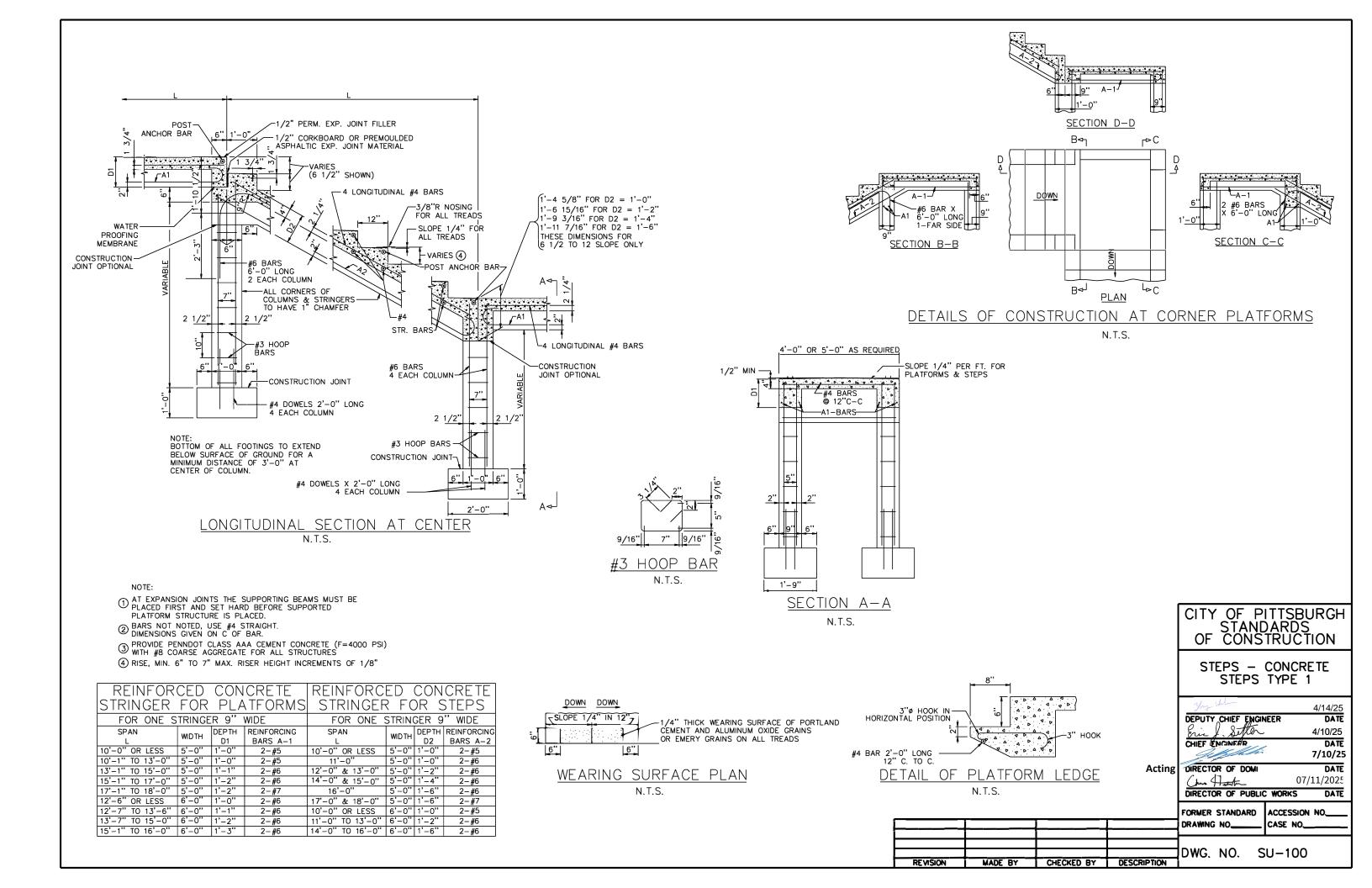
STRUCTURES

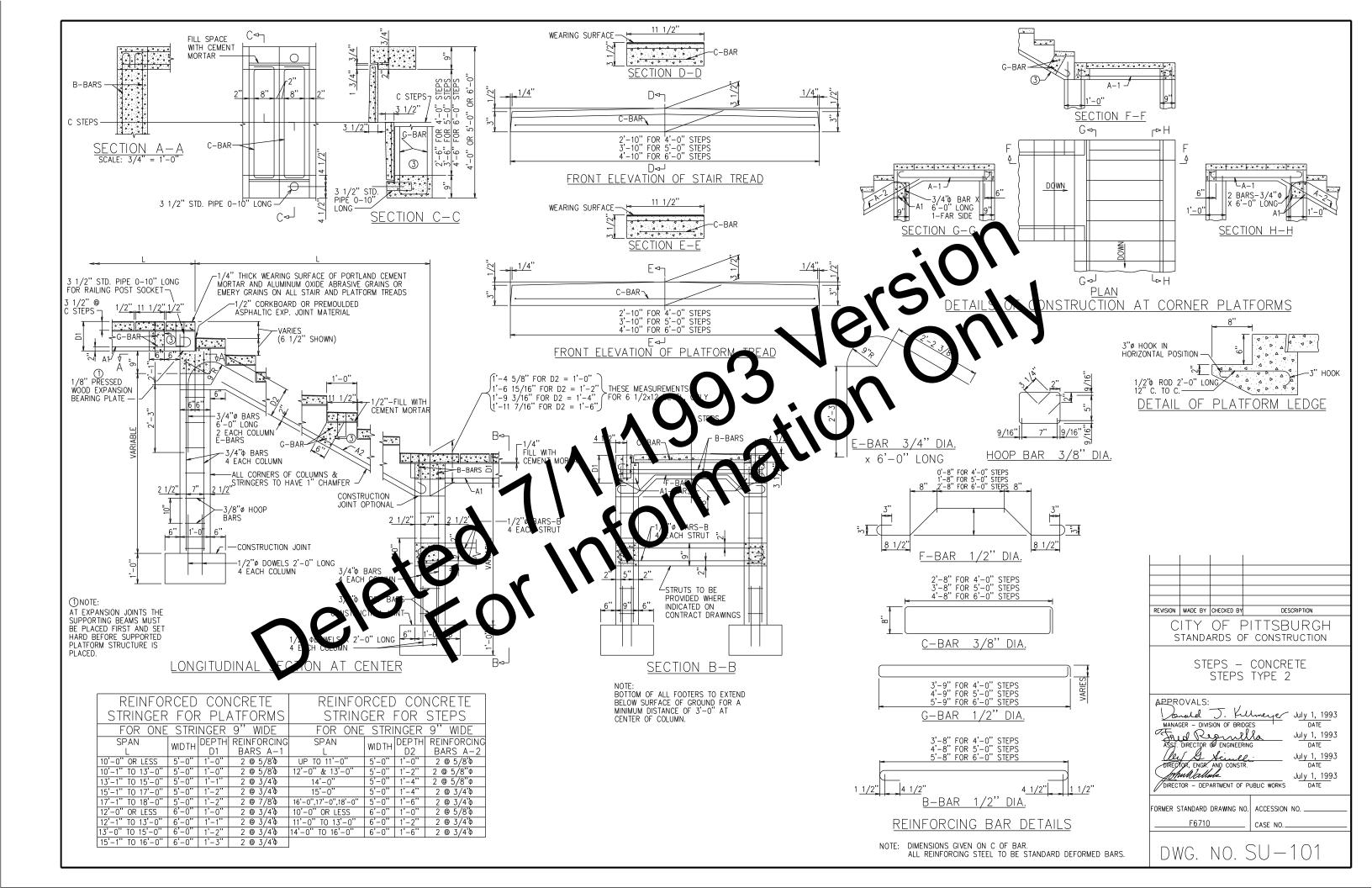
STEPS STEPS - CONCRETE STEPS TYPE 1 STEPS - CONCRETE STEPS TYPE 2 STEPS - CONCRETE STEPS TYPE 3 STEPS - CONCRETE STEPS TYPE 3 STEPS - CONCRETE STEPS TYPE 4 STEPS - WOODEN STEPS AND WOODEN RAILING DETAILS	SU-100 SU-101 SU-102-1 SU-102-2 SU-103-1 SU-103-2 SU-200	P1500 P1501 P1502	APRIL 7, 2025 JULY 1, 1993 APRIL 7, 2025
POSTS AND RAILINGS POSTS AND RAILINGS - IRON PIPE HAND RAILING TYPE 1 AND TYPE 2 POSTS AND RAILINGS - STEEL PIPE WELDED RAILING TYPE 3 AND REMOVEABLE RAIL GUARD RAIL POSTS AND RAILINGS - STEEL RAILING TYPE 4 STEPS - ADA PROTECTION ON EXISTING RAILINGS STEPS - ALUMINUM AND CONCRETE BIKE RUNNELS ACCESS ROAD GATE POSTS AND RAILINGS - GALVANIZED PIPE GUARD RAIL AND STANDARD JUMPER WALK	SU - 300 SU - 301 SU - 302 SU - 303 SU - 304 SU - 310 SU - 400	P1510 P1511 P2119 P1512	JULY 1, 1993 DISCONTINUED APRIL 7, 2025 JULY 1, 1993 DISCONTINUED

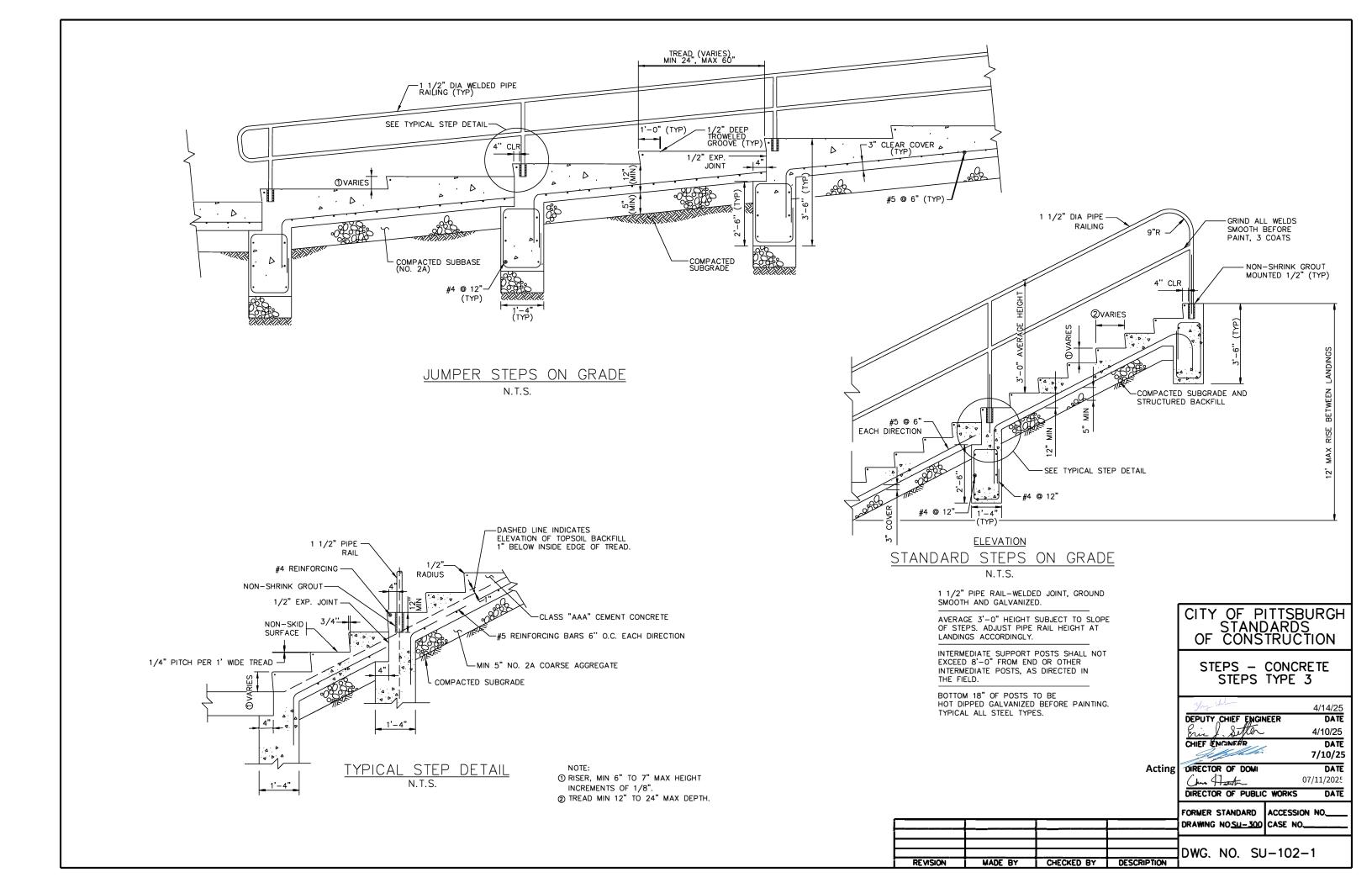
CITY OF PITTSBURGH STANDARDS OF CONSTRUCTION INDEX TO DRAWINGS SHEET 1 OF 1 4/14/25 DATE DEPUTY CHIEF ENGINEER

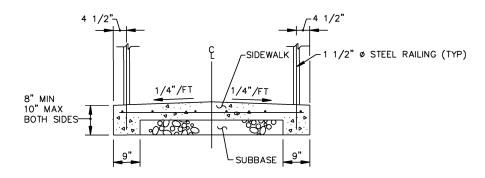
CHIEF ENGINEER

CHIEF ENGINEER 4/10/25 DATE 7/10/25 John Min Acting DIRECTOR OF DOMI DATE Chus Alasta 07/11/2025 DIRECTOR OF PUBLIC WORKS DATE FORMER STANDARD ACCESSION NO._ DRAWING NO.___ CASE NO.___ DWG. NO. GA-100-4 REVISION MADE BY CHECKED BY DESCRIPTION

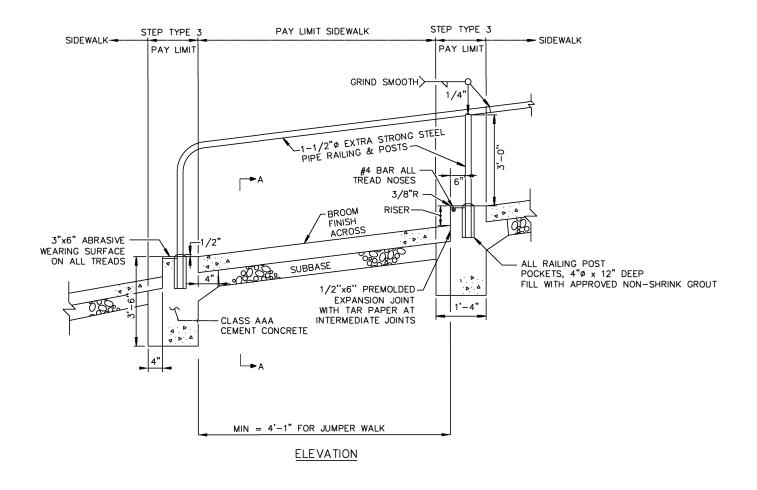








SECTION "A-A" N.T.S.



STANDARD JUMPER WALK N.T.S.

NOTE:

RISER, MIN 6" TO 7" MAX. RISER HEIGHT IN INCREMENTS OF 1/8".

1 1/2" PIPE RAIL-WELDED JOINT, GROUND SMOOTH AND GALVANIZED.

AVERAGE 3'-0" HEIGHT SUBJECT TO SLOPE OF STEPS. ADJUST PIPE RAIL HEIGHT AT LANDINGS ACCORDINGLY.

INTERMEDIATE SUPPORT POSTS SHALL NOT EXCEED 8"-0" FROM END OR OTHER INTERMEDIATE POSTS, AS DIRECTED IN THE FIELD.

MID PIPE RAIL REQUIRED WHEN GREATER THAN 21" VERTICAL FROM EDGE OF STEP TO GROUND, MEASURED FROM MIDDLE OF STEP

CITY OF PITTSBURGH STANDARDS OF CONSTRUCTION

STEPS - CONCRETE STEPS TYPE 3

4/14/25 DEPUTY CHIEF ENGINEER DATE 4/10/25 CHIEF ENGINEER DATE 7/10/25

Acting DIRECTOR OF DOMI DATE Chus Haute 07/11/2025 DIRECTOR OF PUBLIC WORKS

> FORMER STANDARD DRAWING NO_

CASE NO_

ACCESSION NO.

DWG. NO. SU-102-2 REVISION MADE BY CHECKED BY DESCRIPTION



PROVIDE PENNDOT CLASS AAA CEMENT CONCRETE (f = 4,000 psi) WITH #8 COARSE AGGREGATE FOR PRE-CAST UNITS AND CAST-IN-PLACE LANDINGS.

PROVIDE PENNDOT CLASS A CEMENT CONCRETE (f = 3,000 psi) FOR COLUMNS AND FOUNDATIONS.

PROVIDE 3/8" RADIUS NOSING FOR ALL STAIR AND LANDING TREADS.

CHAMFER ALL OTHER CORNERS 3/4" X 3/4".

BROOM FINISH ALL CAST-IN-PLACE CONCRETE WEARING SURFACES.

PROVIDE EPOXY COATED GRADE 60 REINFORCING BARS THAT MEET PENNDOT PUB 408 REQUIREMENTS.

INSERTS SHALL BE GALVANIZED.

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED. STATIONS AND ELEVATIONS ARE GIVEN IN FEET UNLESS OTHERWISE INDICATED.

DESIGN SPECIFICATIONS

INTERNATIONAL BUILDING CODE (IBC) (2018)

ICC/ANSI A-117.1 - AMERICAN NATIONAL STANDARDS INSTITUTE'S (ANSI) ACCESSIBLE AND USABLE FACILITIES AND BUILDINGS (2017)

AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBILITY DESIGN (2010)

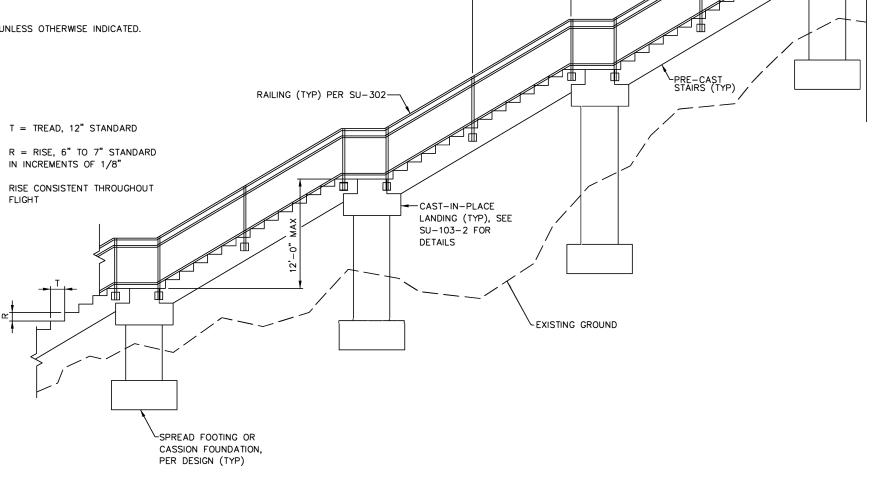
PA. CODE TITLE 34, CHAPTER 47

SNOW LOAD = 21 PSF FOR CITY OF PITTSBURGH

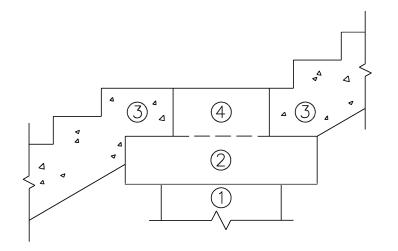
ICE LOAD = HORIZONTAL = 12 PSF, VERTICAL = 16 PSF

LIVE LOAD = 100 PSF OR 300 LBS PER 2' X 2' AREA

WIND SHORTENED DIRECTION



6'-6" MAX



STANDARD ELEVATED PRE-CAST STEPS N.T.S.

CAST-IN-PLACE LANDING CONCRETE POUR SEQUENCE

CONCRETE POUR SEQUENCE:

1. POUR CAST-IN-PLACE LANDING COLUMN.

2. POUR BOTTOM HALF OF LANDING.

3. INSTALL PRECAST STAIRS AND/OR DECK PANEL.

4. COMPLETE FINAL POUR FOR THE UPPER HALF OF THE CAST-IN-PLACE LANDING TO LOCK IN STAIR SECTIONS.

CITY OF PITTSBURGH STANDARDS OF CONSTRUCTION

STEPS - CONCRETE STEPS TYPE 4

4/14/25 DEPUTY CHIEF ENGINEER DATE I Sitter 4/10/25 DATE 7/10/25 CHIEF ENGINEAR

Acting DIRECTOR OF DOM

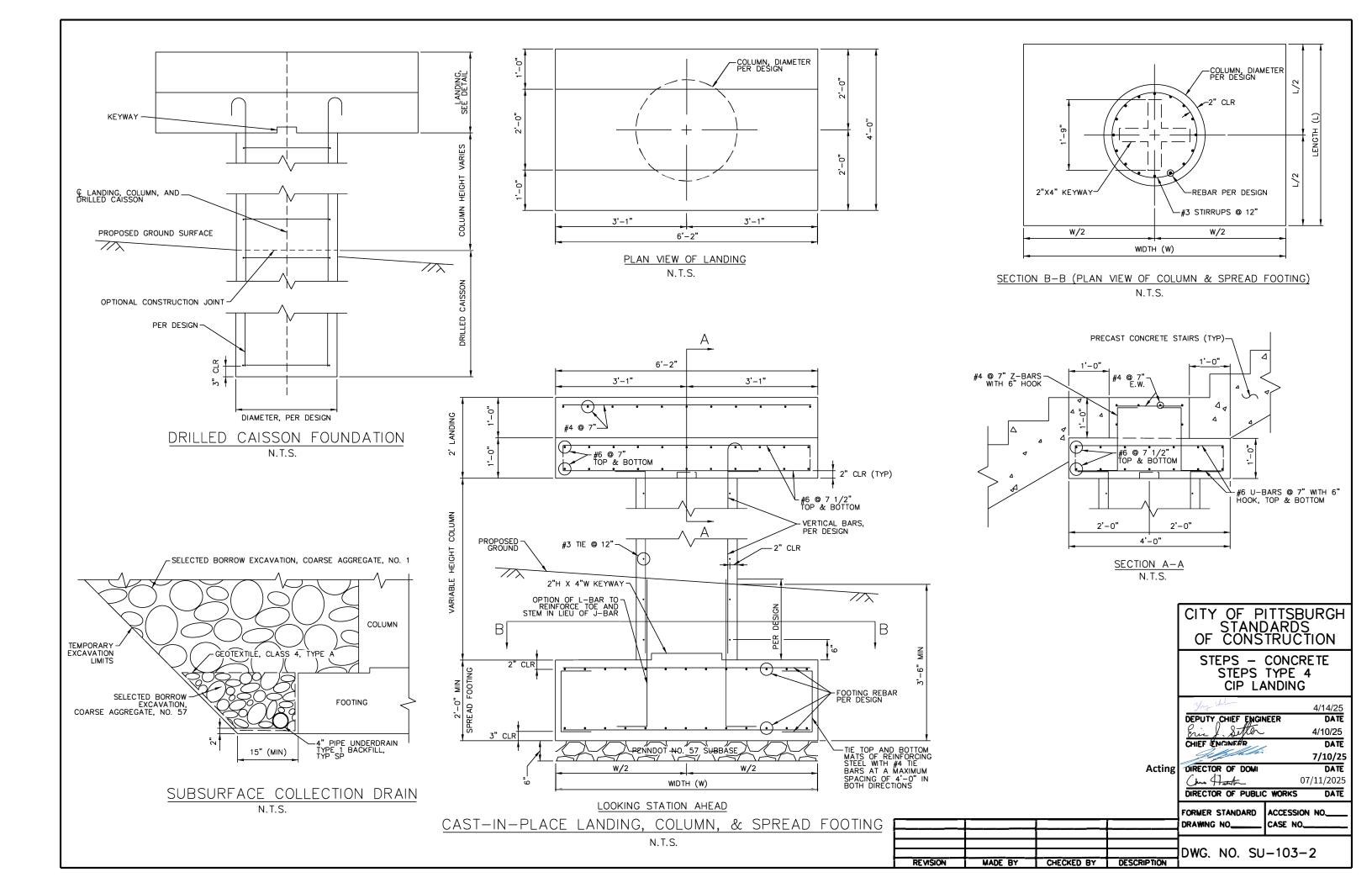
DATE Chus Haute 07/11/2025 DIRECTOR OF PUBLIC WORKS DATE FORMER STANDARD ACCESSION NO. CASE NO_

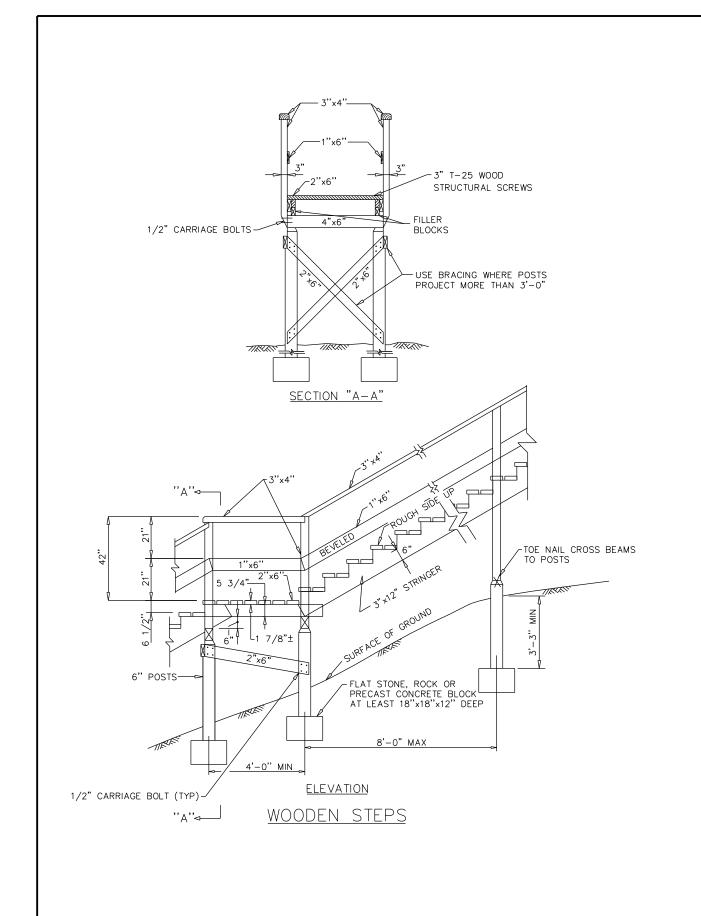
DRAWING NO_

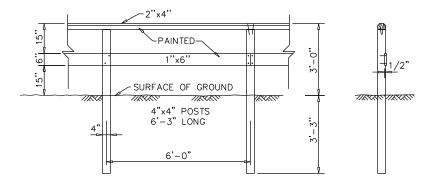
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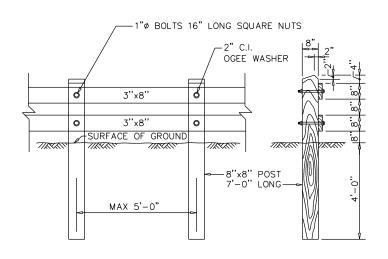
DWG, NO. SU-103-1







WOODEN FENCE DETAIL



WOODEN BARRIER DETAILS
WOODEN RAILING DETAILS

CITY OF PITTSBURGH
STANDARDS
OF CONSTRUCTION
STEPS - WOODEN STEPS

STEPS — WOODEN STEPS AND WOODEN RAILING DETAILS

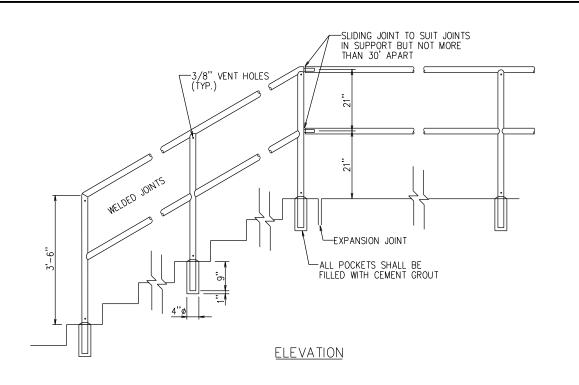
3/mg hour	4/14/25
DEPUTY CHIEF ENGINEER	DATE
Eric J. Setter	4/10/25
CHIEF ENGINE R	DATE
Alpha in	7/10/25
- COPPOSED OF BOLL	DATE

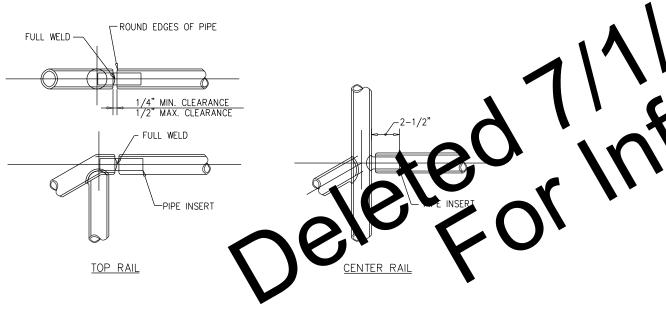
Acting 0

DIRECTOR OF DOMI		DATE
Chus Asata	07	7/11/202
DIRECTOR OF PUBLIC	WORKS	DATE

FORMER STANDARD	ACCESSION NO
DRAWING NO	CASE NO

MADE BY CHECKED BY DESCRIPTION DWG. NO. SU-200



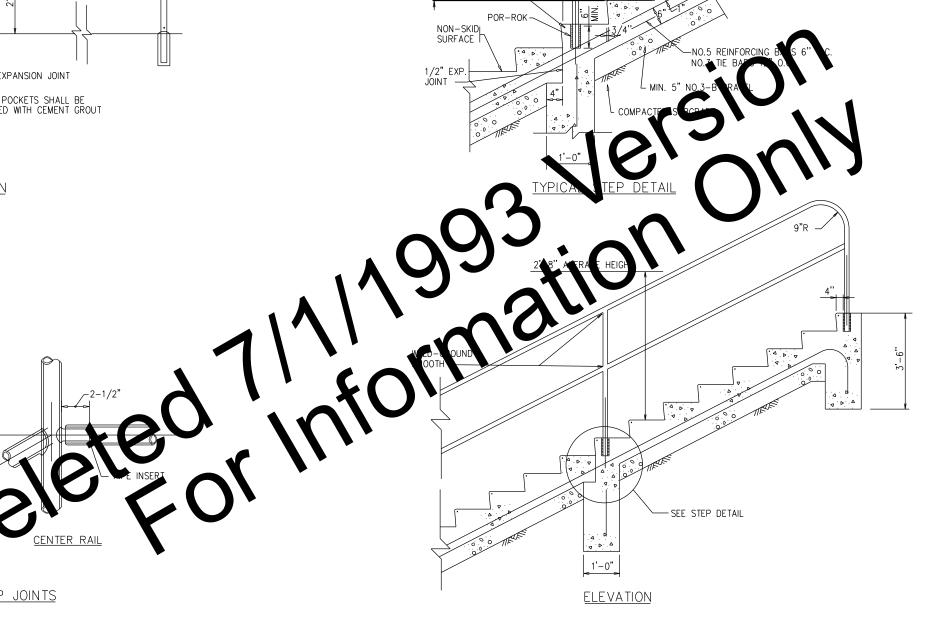


DETAIL OF SLIP JOINTS

IRON HAND RAILING TYPE 2

ALL RAIL POSTS TO BE SET VERTICAL ALL POSTS AND RAILINGS SHALL BE EXTRA STRONG STEEL PIPE OF SIZE SPECIFIED AND PAINTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. OMIT PAINT ON BOTTOM 9" OF POSTS.

ALL WELDS SHALL BE GROUND SMOOTH. DETAIL OF JOINTS NOT SHOWN TO BE APPROVED BY THE DIRECTOR.



√1/2" RADIUS

__1/4" PITCH PER 1' WIDE TREAD

1 1/2" PIPE

NO.3 REINFORCING

-DASHED LINE INDICATES ELEVATION OF TOPSOIL

CLASS "P" CONCRETE

1" BELOW INSIDE EDGE OF TREAD.

IRON HAND RAILING TYPE 1

1 1/2" PIPE RAIL-WELDED JOINT, GROUND SMOOTH AND GALVANIZED.

AVERAGE 2'-8" HEIGHT SUBJECT TO SLOPE OF STEPS. ADJUST PIPE RAIL HEIGHT AT LANDINGS ACCORDINGLY.

INTERMEDIATE SUPPORT POSTS SHALL NOT EXCEED 8'-0" FROM END OR OTHER INTERMEDIATE POSTS, AS DIRECTED IN THE FIELD.

REVISION	MADE BY	CHECKED BY	DESCRIPTION
CITY OF PITTSBURGH			

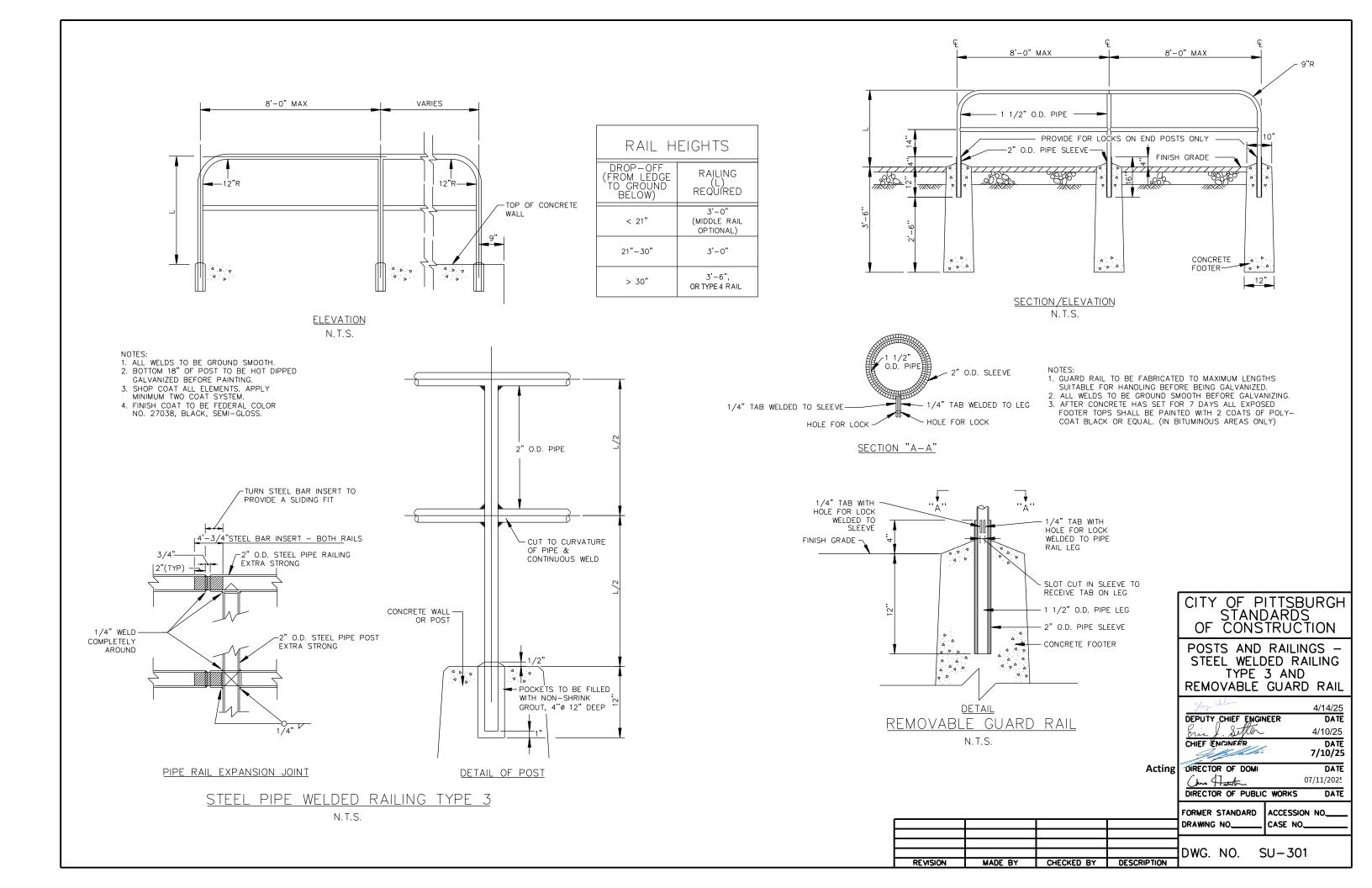
STANDARDS OF CONSTRUCTION

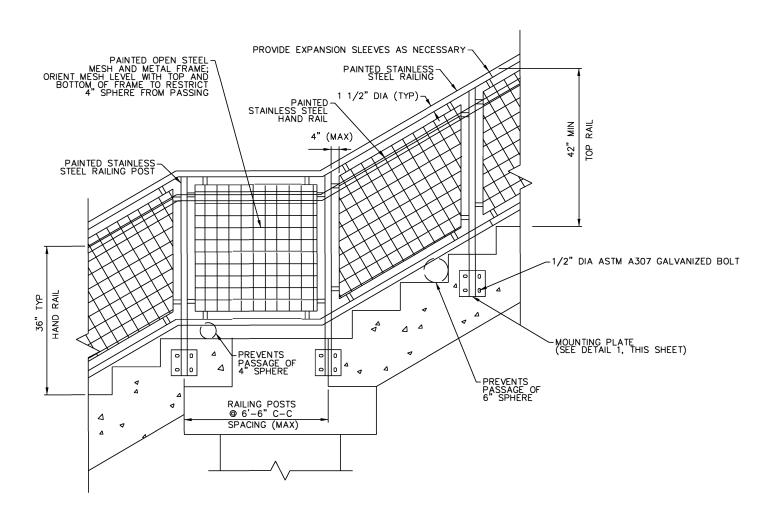
POSTS AND RAILINGS - IRON PIPE HAND RAILING TYPE 1 AND TYPE 2

APPROVALS: ,	
Conald J. Killmeyer	July 1, 1993
MANAGER - DIVISION OF BRIDGES	DATE
Fred Resulla	July 1, 1993
ASST. DIRECTOR OF ENGINEERING	DATE
Cles & Saule	J <u>uly 1, 199</u> 3
DIRECTOR, ENGR. AND CONSTR.	DATE
Sopullallule.	July 1, 1993
DIRECTOR - DEPARTMENT OF PUBLIC WORKS	DATE

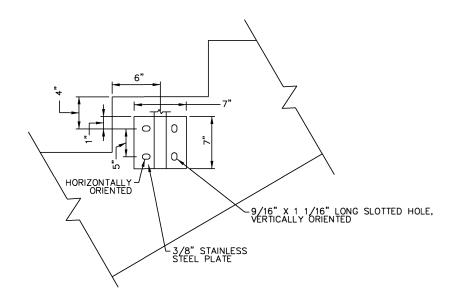
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ML-176, P-4959	CASE NO.

DWG. NO. SU-300

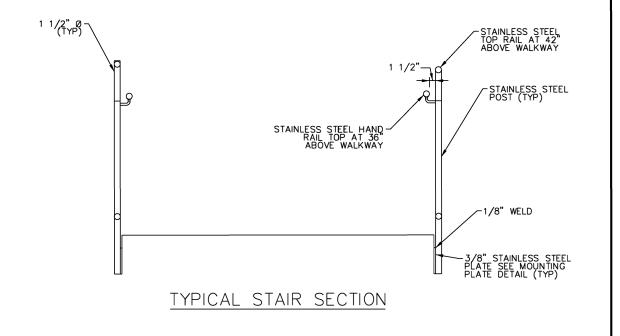


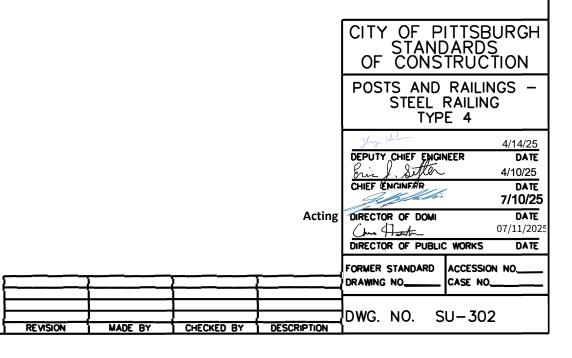


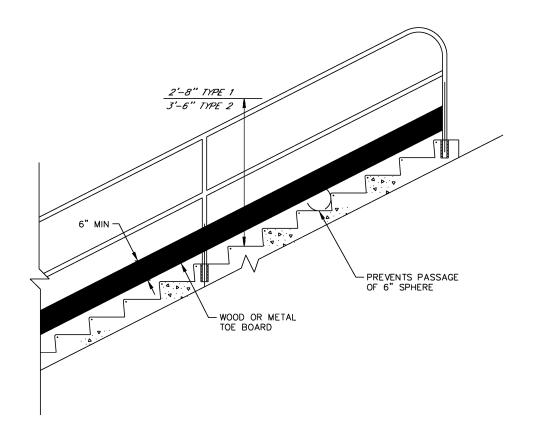
STEEL RAILING TYPE 4



1 MOUNTING PLATE







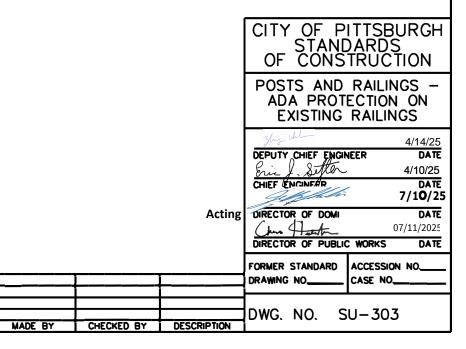
ELEVATION

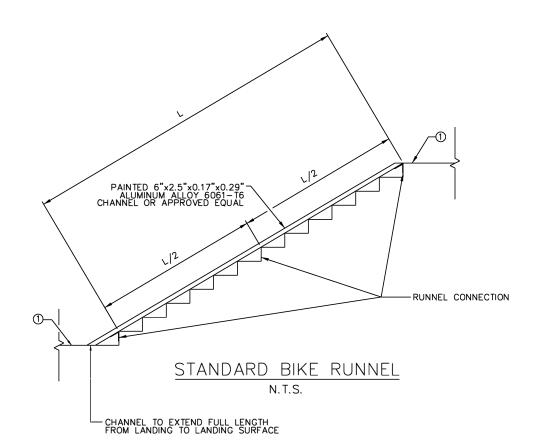
EXISTING RAILING WITH TOE BOARD

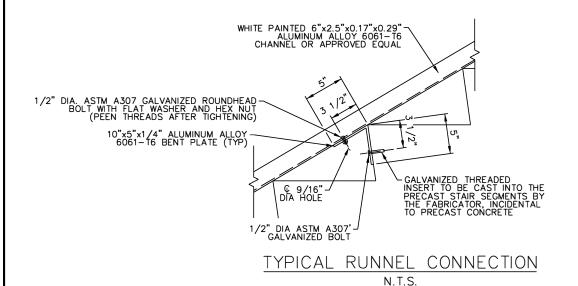
NOTES:

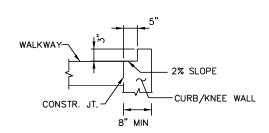
- EXISTING IRON RAILINGS SHOWN. TOE BOARD REQUIRED FOR INSTALLATION ON IRON, WOOD, AND STEEL RAILINGS
- 2. FOR USE WHEN 6 OR MORE FEET FROM LEDGE TO GROUND BELOW.
- 3. TOE BOARD TO BE ATTACHED TO EXISTING POSTS WITH SCREWS OR STRAPS.

REVISION









RIGHT-RUNNING SECTION

ALTERNATE FORMED CONCRETE CURB RUNNEL

POUR SEQUENCE:

1. POUR CURB/KNEE WALL

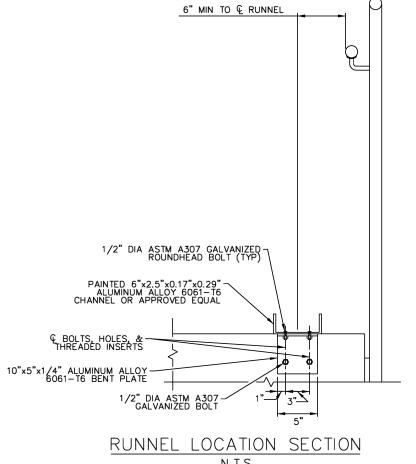
2. POUR TREAD WALKWAY

MADE BY

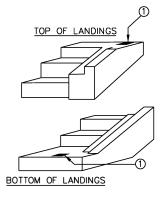
CHECKED BY DESCRIPTION

6" MIN. FROM HANDRAIL TO CENTER

OF FORMED CURB RUNNEL

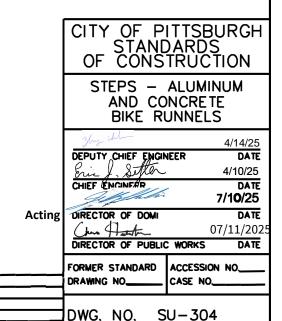


NOTE: PROVIDE BIKE RUNNEL AT THE RIGHT SIDE OF STEPS, WHEN LOOKING "UP" THE STEPS, OR AS DIRECTED BY ENGINEER

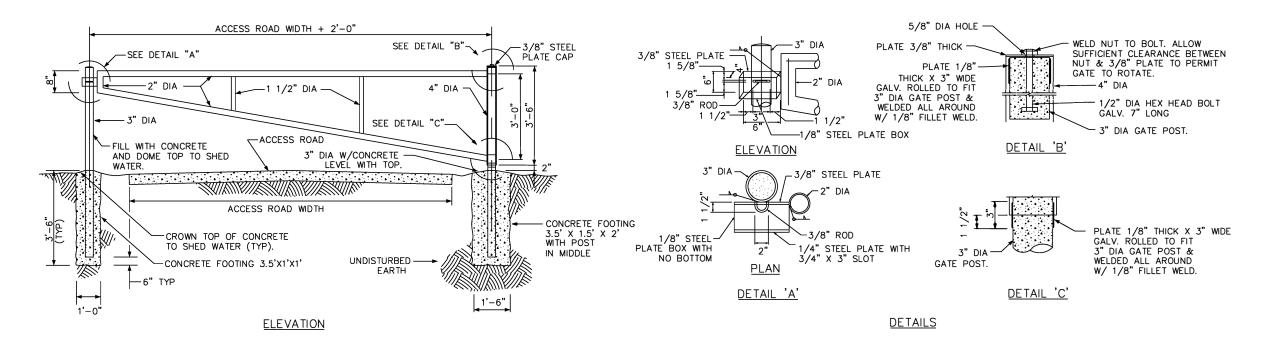


BIKE RUNNEL ENDS

PLACE REFLECTIVE STICKER OR CONCRETE STAMP AT TOP AND BOTTOM OF RUNNEL. REFER TO TRAFFIC ENGINEER FOR GUIDANCE



TYPICAL CHANNEL RUNNEL N.T.S.



NOTES:

- 1. ALL METAL USED IN THE MANUFACTURE OF THE ACCESS ROAD GATE TO BE HOT DIP GALVANIZED. ALL WELDS & PIPE TO BE PAINTED & TOUCHED UP IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 2. ALL JOINTS TO BE WELDED ALL AROUND WITH 3/16" WELDS.
- 3. ALL PIPE TO BE SCHEDULE 40 STEEL. ALL DIAMETERS SHOWN ARE NOMINAL PIPE SIZE.
- 4. PADLOCK WILL BE FURNISHED BY DOMI.
- 5. PROVIDE AN ADDITIONAL 3" DIA. POST WITH 3/8" ROD. LOCATE TO HOLD GATE IN AN OPEN POSITION 90 DEGREES FROM THAT SHOWN BELOW.
- 6. GATE TO SWING IN TOWARDS CITY PROPERTY.
- 7. WIDTH OF GATE NOT TO EXCEED 16 FEET.

