

GENERAL NOTES

- DESIGN SPECIFICATIONS
AASHTO LRFD Bridge Design Specifications (with Interims) as modified by NDOT Design Manual for Bridges and Structures.
- CONSTRUCTION SPECIFICATIONS
The NDOT Standard Specifications for Road and Bridge Construction with current Supplemental Specifications, as modified by the Special Provisions.
- LIVE LOAD
Wind pressure: 33 PSF corresponding to a wind velocity of 80 mph, as specified in the NDOT Design Manual for Bridges and Structures.
Ice Load: 3 PSF

- CONCRETE DESIGN STRESSES
(a) Precast Members (Post and Panels):
 $f'_c = 5,000 \text{ PSI (CLASS P)}$
Specified Compressive Strength
Extreme Fiber in Compression
 $f'_c = 2,000 \text{ PSI}$
(b) Cast-in-Place Members:
Specified Compressive Strength
 $f'_c = 3,000 \text{ PSI (CLASS B)}$
Extreme Fiber in Compression
 $f'_c = 1,200 \text{ PSI}$
 - REINFORCEMENT STEEL
Deformed Bars (ASTM A615, Grade 60)
- Deformed Welded Wire Fabric may be used as an alternate. The Welded Wire designation and spacing shall meet the minimum area of steel as determined by design.
- the NDOT Standard Specifications for Road and Bridge Construction for guidance concerning corrosion protection of the welded wire fabric reinforcement.
- CLASSES OF CONCRETE
- (a) Class of Concrete Used:
Class P Concrete for Posts and Panels
Class B Concrete for Foundations and Pedestals
(b) Class Design Strengths (Mix Design Requirements)
Class P = 5,500 PSI
Class B = 3,700 PSI

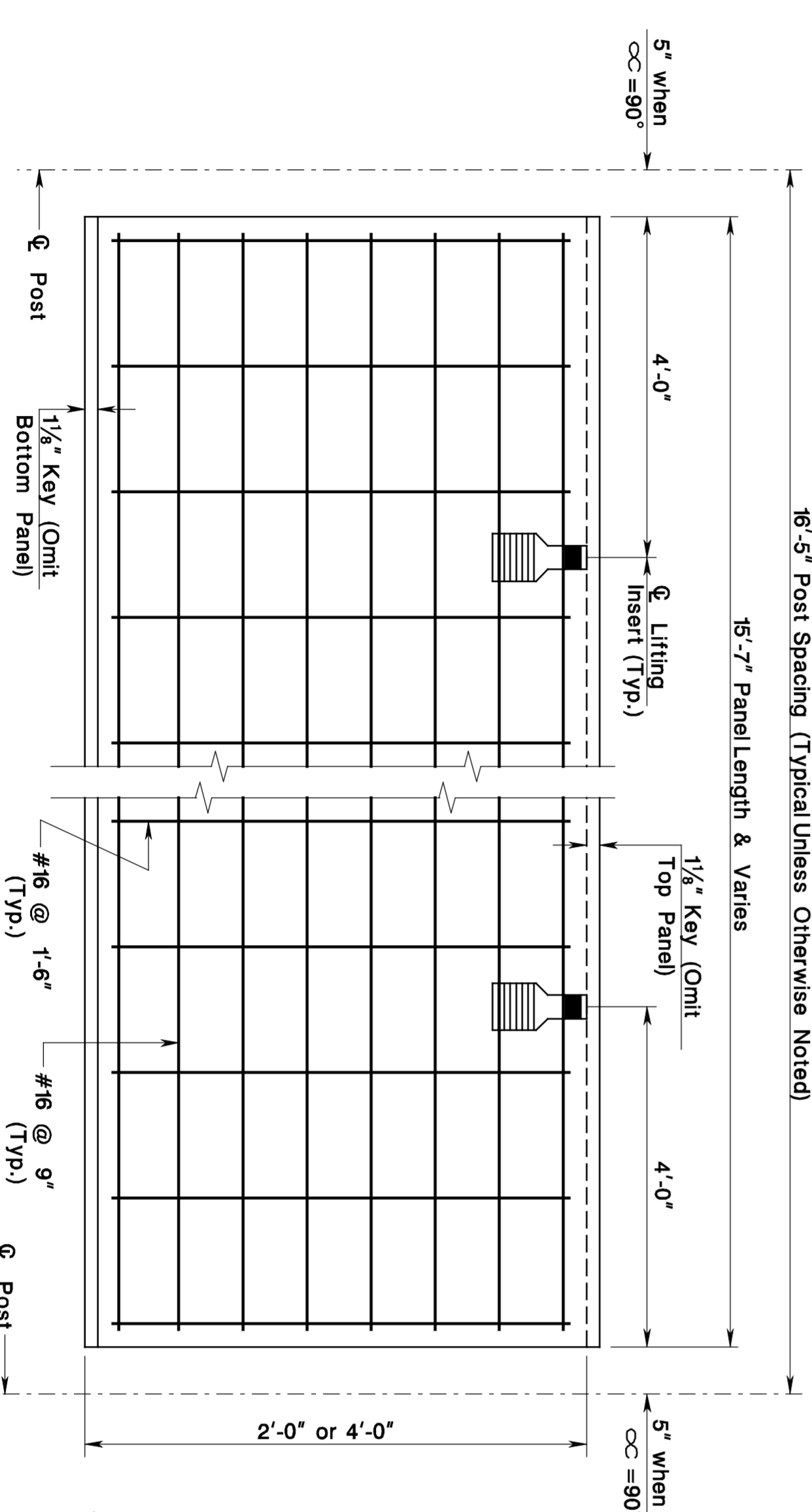
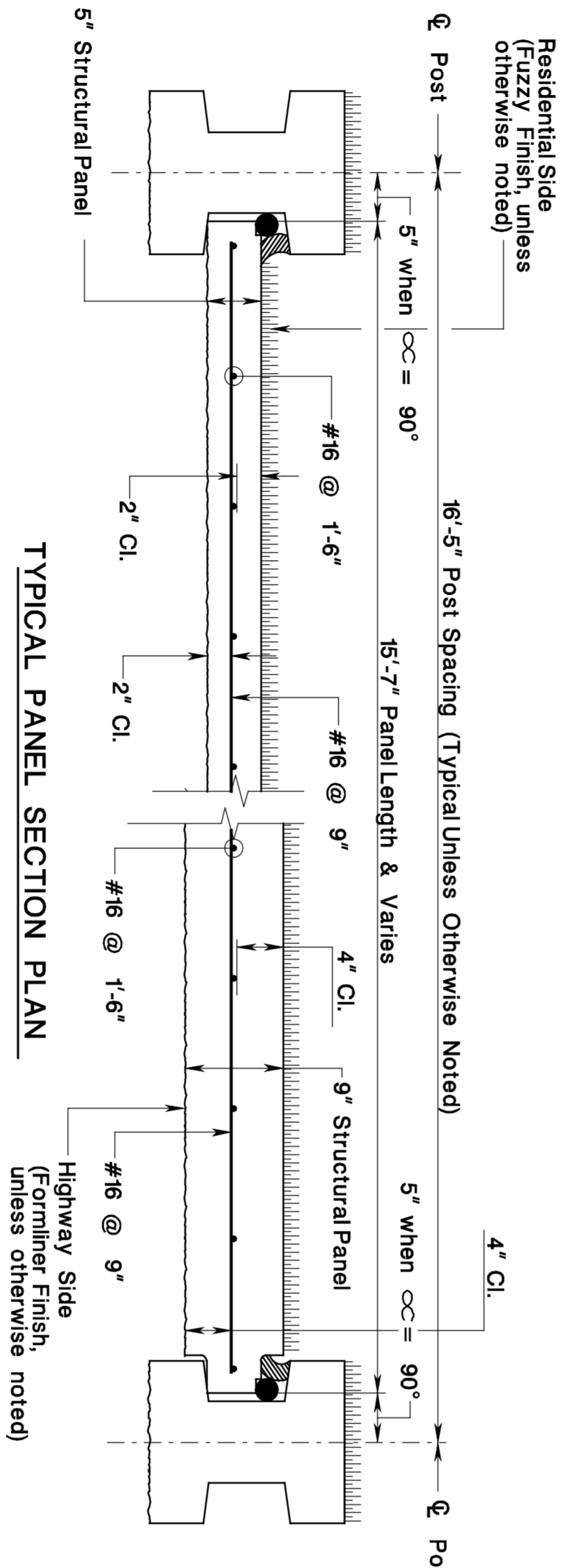
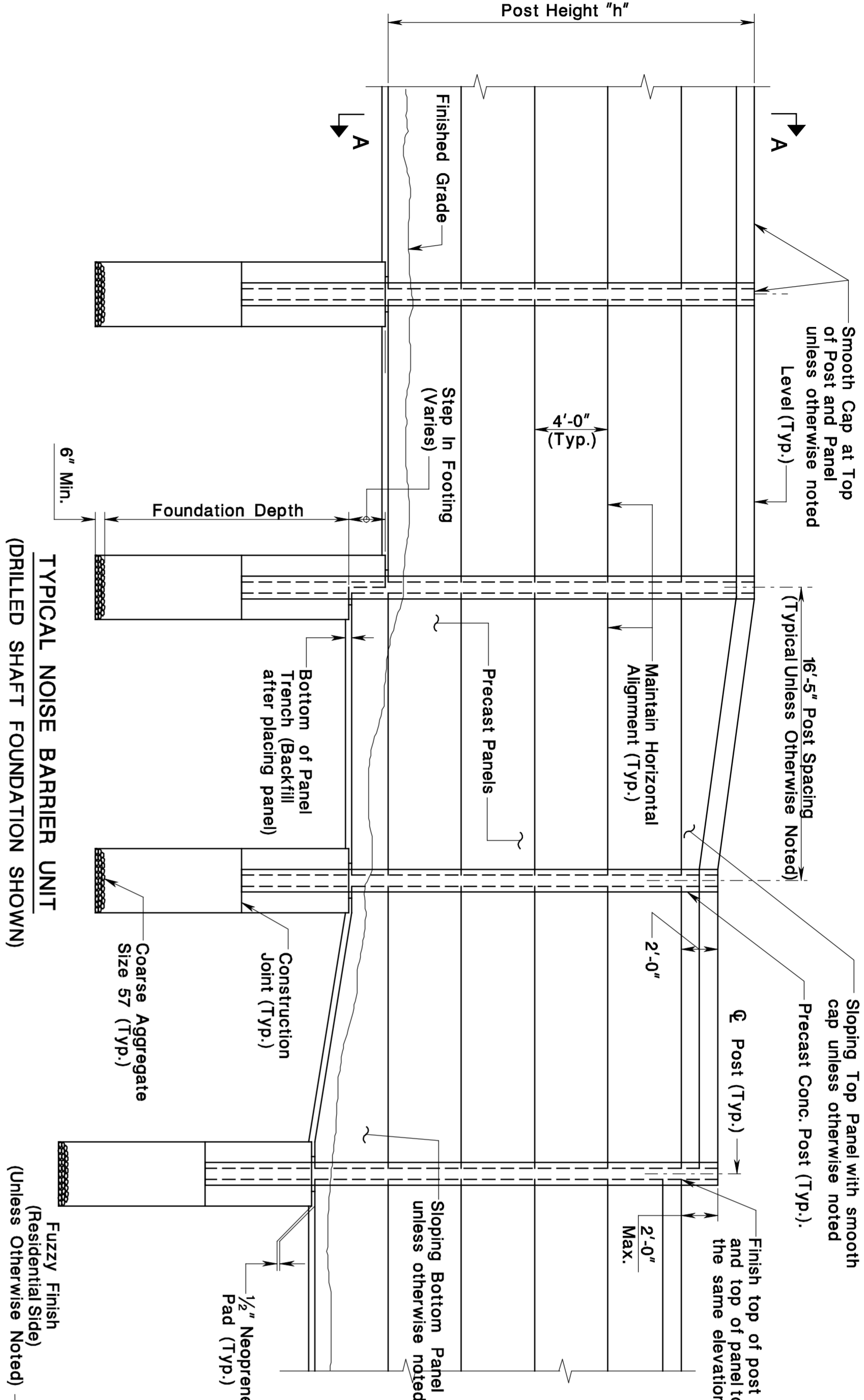
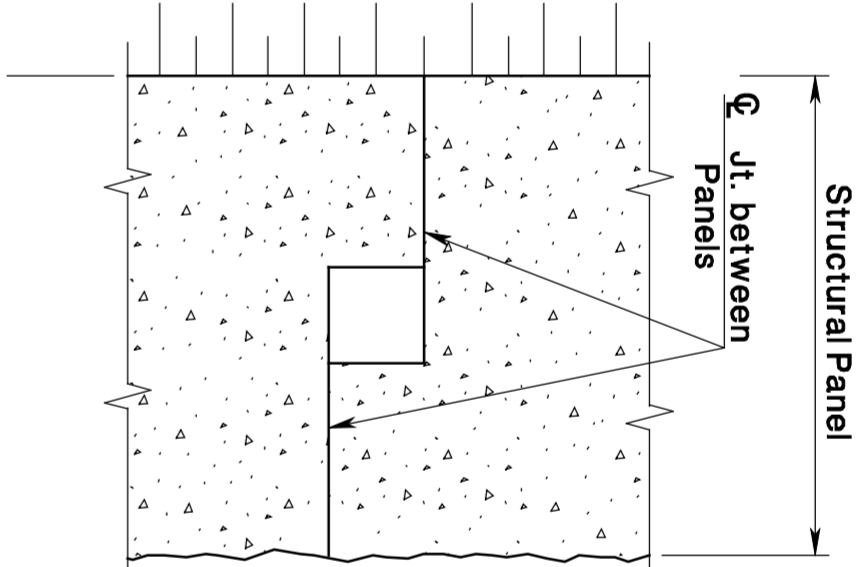
- Position panels using recessed lifting inserts as shown. Fill any insert holes in top panels and in posts shall be sealed with non-shrink cement mortar tinted to match color of panels and posts.
- All panels and posts shall be installed to true vertical (i.e. Faces of panels shall be flush).
- Horizontal panel joints on each side of the post shall line up within 1" tolerance, providing that the first matching panel joint from the ground shall have zero tolerance and the last matching joint shall have 1" tolerance.
- All precast members shall be fabricated to plan dimensions within the tolerances specified in the Contract Documents.
- Excavated foundation pits shall be kept dry during placement of crushed stone and concrete.
- Foundations shall be designed by the Designer based on actual subsurface conditions.
- Working drawings shall show complete noise barrier plan and elevations, including all steps and details and dimensions necessary for fabrication and erection.
- The Contractor shall verify locations of all existing utilities prior to construction in the vicinity of the proposed noise barrier.
- The concrete posts and panels shall be precast or prestressed utilizing a formliner.

* The note should be modified to reflect applicable year and updated Specifications.

NOTE TO DESIGNER

THE DETAILS PROVIDED ARE FOR THE LIVE LOAD INDICATED IN THE GENERAL NOTES. THE DETAILS MUST BE DESIGNED FOR ANY MODIFICATIONS TO THE LIVE LOAD.


* When the difference of ground elevation between highway side and residential side is less than 1'-6", use 5" thick bottom panel. If the difference is between 1'-6" and 3'-0", use 9" thick bottom panel.



CONTROL SECTION		JOB NO.
DES	BT	CHK
DWN	BT	BT
EST	BT	CHK
EST	BT	BT
SPECS	BT	

IN CHARGE OF

REVISION	BY	CHK	DATE

	
STANDARD DRAWING PLATE 2.4-1	
NEW JERSEY DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURAL ENGINEERING	
NOISE WALL BARRIERS PRECAST CONCRETE PANEL DETAILS	
ROUTE	SECTION
MUNICIPALITY	COUNTY
SHEET NO. OF	