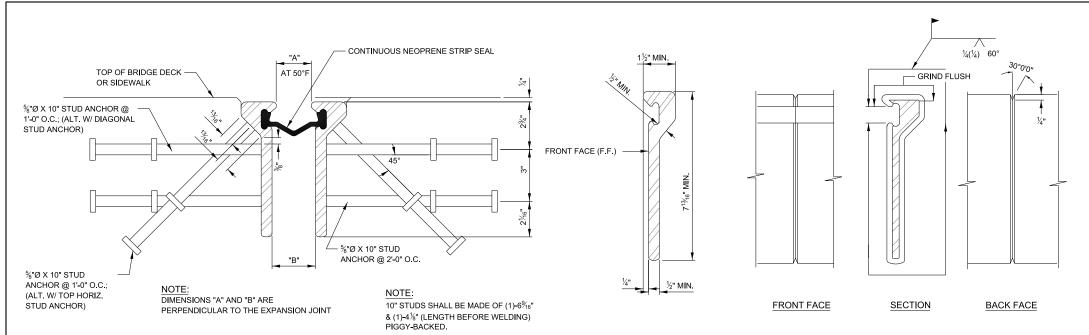
### Illinois Tollway Base Sheet Revisions

| Section M | Base Sheet | Drawings                               |   |
|-----------|------------|--|---|
|           | Drawing    | Modification Summary                   | Effective: 03-01-2025                       |
|           |            |  |   |
|           |            |  | G)-Series 500                               |
|           |            | This set of standard drawings has been | converted from v8i to OpenRoads.            |
|           |            |  |   |
|           | M-BRG-529  | STRUCTURE MOUNTED NOISE ABA            | TEMENT WALL SCHEDULE                        |
|           | Sheet 3    | Removed Tables and Notes related to    | Advance Procurement that is no longer used. |
|           |            |  |   |
|           | M-BRG-531  | STRUCTURE MOUNTED NOISE ABA            | TEMENT WALL SCHEDULE                        |
|           | Sheet 4    | Removed Tables and Notes related to    | Advance Procurement that is no longer used. |
|           |            |  |   |
|           | M-BRG-532  | GROUND MOUNTED NOISE ABATEM            | IENT WALL SCHEDULE                          |
|           | Sheet 3    | Removed Tables and Notes related to    | Advance Procurement that is no longer used. |

New Sheet

Retired Standard



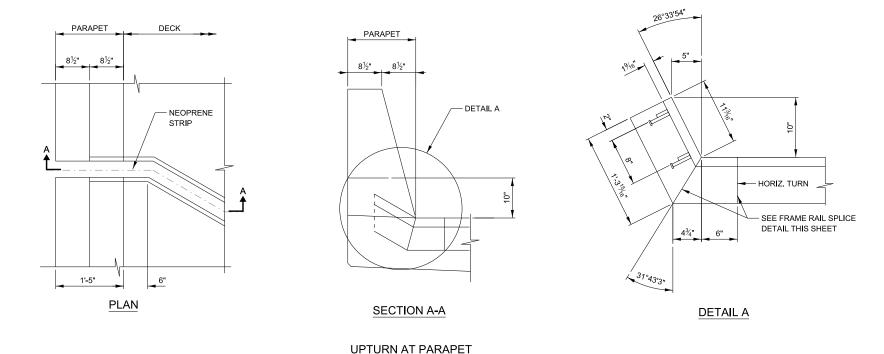


SECTION THRU EXPANSION JOINT

TYPICAL SECTION THRU FRAME RAIL

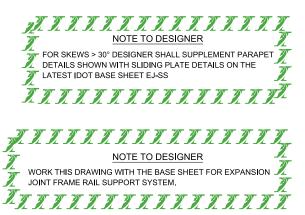
WELD ON FRONT SIDE OF FRAME MAY BE OMITTED AT STAGE CONSTRUCTION LINES.

FRAME RAIL SPLICE DETAIL



### NOTES:

- EXPANSION JOINT SHALL FOLLOW ROADWAY GRADE & CROSS SLOPE. EXPANSION JOINT TO BE SET TO GRADE BY ATTACHING FRAME RAILS TO BACKWALL AND BEAMS.
- FRAME RAILS AND OTHER STEEL SHALL BE AASHTO M270 GRADE 36, (ASTM A36).
- STUD ANCHORS SHALL BE AASHTO M169 (ASTM A108).
- EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS, SECTION 1211.
- FRAME RAIL ASSEMBLY SHALL BE FABRICATED IN 20 FT. MAXIMUM LENGTHS. SHOP AND FIELD SPLICES SHALL BE PLACED AT CROWN BREAKS, CONSTRUCTION STAGE LINES, AND TRANSVERSE BREAKS IN DECK.
- AT SPLICES, A CONTINUOUS GROUND SMOOTH WELD SHALL BE PROVIDED EXCEPT ON SURFACES IN LOCKING CONTACT WITH SEAL WHICH SHALL HAVE NO BURRS.
- ALL STUD ANCHORS TO BE ELECTRIC ARC END WELDED WITH COMPLETE FUSION.
- AFTER FABRICATION IS COMPLETE FRAME RAILS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M232 (ASTM A153).
- CORRESPONDING SECTIONS SHALL BE TEMPORARILY SHOP ASSEMBLED, CHECKED FOR FIT, AND MATCH MARKED WITH STENCIL AND BLACK PAINT FOR SHIPMENT.
- NEOPRENE SEAL SHALL BE CONTINUOUS. FACTORY VULCANIZED HORIZONTAL MITERS SHALL BE REQUIRED FOR ALL SKEWS.
- NEOPRENE SEAL SHALL BE INSTALLED CONTINUOUS, SPLICING OF SEAL IN THE FIELD IS 11. NOT PERMITTED.
- NEOPRENE SEAL SHALL BE BONDED TO THE FRAME RAILS WITH AN ADHESIVE MEETING THE REQUIREMENTS OF ASTM D4070.
- SUPPORT PLATES, NUTS AND WASHERS CONNECTED TO FRAME RAILS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M111 AND M232 (ASTM A123 AND
- 14. SUPPORT PLATES ON STEEL GIRDERS SHALL BE WELDED IN ACCORDANCE WITH ARTICLES 505.04 (g) & 505.08 (n) OF THE IDOT STANDARD SPECIFICATIONS.
- FURNISHING AND INSTALLING EXPANSION JOINT FRAME RAIL SUPPORT SYSTEM SHALL BE INCLUDED IN THE COST OF BRIDGE EXPANSION JOINT SYSTEM.
- JOINT OPENINGS SHALL BE ADJUSTED IN ACCORDANCE WITH THE FIELD ENGINEER'S INSTRUCTIONS.
- 17. UPON COMPLETION OF FIELD WELDING, THE CONTRACTOR SHALL CLEAN THE WELD AREA AND APPLY A COATING OF ORGANIC ZINC-RICH PAINT IN ACCORDANCE WITH



THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

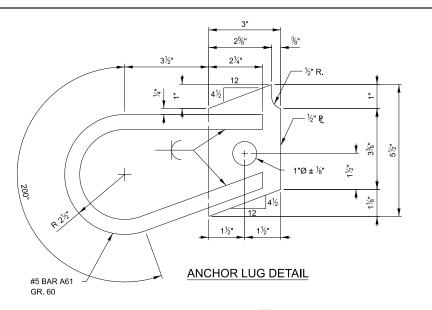


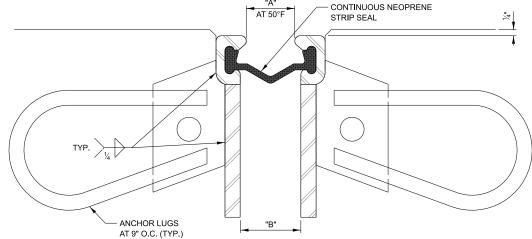
EXPANSION JOINT FRAME RAIL AND SEAL ALTERNATE A

2022-03

M-BRG-500

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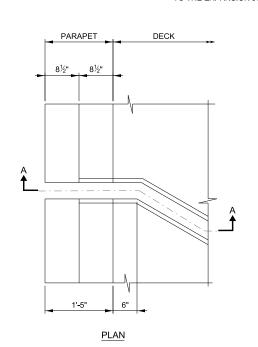


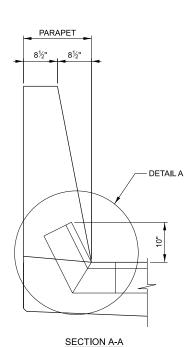


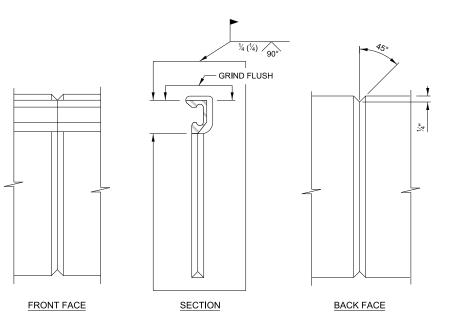
### SECTION THRU EXPANSION JOINT

DIMENSIONS "A" AND "B" ARE PERPENDICULAR TO THE EXPANSION JOINT

**UPTURN AT PARAPET** 

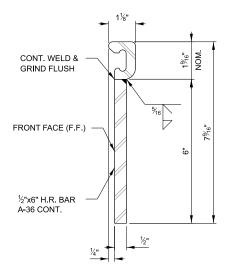






### FRAME RAIL SPLICE DETAIL

WELD ON FRONT SIDE OF FRAME MAY BE OMITTED AT STAGE CONSTRUCTION LINES.



TYPICAL SECTION THRU FRAME RAIL

### - HORIZONTAL TURN SEE FRAME RAIL SPLICE DETAIL THIS SHEET 31°43'3" -DETAIL A

### NOTES:

- EXPANSION JOINT SHALL FOLLOW ROADWAY GRADE & CROSS SLOPE. EXPANSION JOINT TO BE SET TO GRADE BY ATTACHING FRAME RAILS TO BACK WALL
- AT SPLICES, A CONTINUOUS GROUND SMOOTH WELD SHALL BE PROVIDED EXCEPT ON SURFACES IN LOCKING CONTACT WITH SEAL WHICH SHALL HAVE NO
- FRAME RAILS AND OTHER STEEL SHALL BE AASHTO M270 GRADE 36, (ASTM
- ANCHOR LUGS SHALL BE AASHTO M31 (ASTM A615).
- EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS SECTION, 1211.
- FRAME RAIL ASSEMBLY SHALL BE FABRICATED IN 20 FT. MAXIMUM LENGTHS. SHOP AND FIELD SPLICES SHALL BE PLACED AT CROWN BREAKS, CONSTRUCTION STAGE LINES, AND TRANSVERSE BREAKS IN DECK.
- AFTER FABRICATION IS COMPLETE FRAME RAILS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
- CORRESPONDING SECTIONS SHALL BE TEMPORARILY SHOP ASSEMBLED, CHECKED FOR FIT, AND MATCH MARKED WITH STENCIL AND BLACK PAINT FOR SHIPMENT.
- NEOPRENE SEAL SHALL BE CONTINUOUS. FACTORY VULCANIZED HORIZONTAL MITERS SHALL BE REQUIRED FOR ALL SKEWS.
- NEOPRENE SEAL SHALL BE INSTALLED CONTINUOUS, SPLICING OF SEAL IN THE FIELD IS NOT PERMITTED.
- 11. NEOPRENE SEAL SHALL BE BONDED TO THE FRAME RAILS WITH AN ADHESIVE MEETING THE REQUIREMENTS OF ASTM D4070.
- 12. SUPPORT PLATES ON STEEL GIRDERS SHALL BE WELDED IN ACCORDANCE WITH ARTICLES 505.04 (q) & 505.08(n) OF THE IDOT STANDARD SPECIFICATIONS.
- FURNISHING AND INSTALLING EXPANSION JOINT FRAME RAIL SUPPORT SYSTEM SHALL BE INCLUDED IN THE COST OF BRIDGE EXPANSION JOINT SYSTEM.
- JOINT OPENINGS SHALL BE ADJUSTED IN ACCORDANCE WITH THE FIELD ENGINEER'S INSTRUCTIONS.
- 15. SUPPORT PLATES, NUTS, AND WASHERS CONNECTED TO FRAME RAILS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M111 AND M232 (ASTM A123 AND A153).
- 16. UPON COMPLETION OF FIELD WELDING, THE CONTRACTOR SHALL CLEAN THE WELD AREA AND APPLY A COATING OF ORGANIC ZINC-RICH PAINT IN ACCORDANCE WITH SSPC-PS12.01.



### 

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

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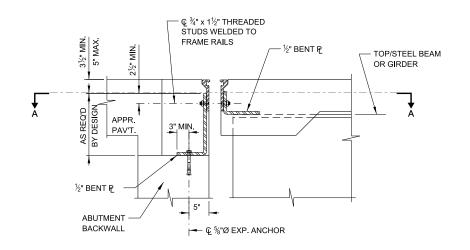


**EXPANSION JOINT FRAME** RAIL AND SEAL ALTERNATE B

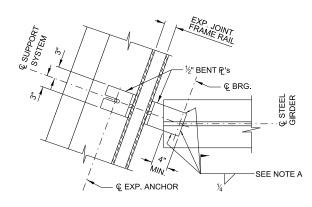
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M-BRG-501

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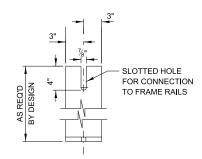


### TYPICAL SECTION THRU EXP. JOINT AND SUPPORT SYSTEM AT STEEL GIRDERS

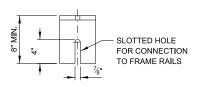


### SECTION A-A

FIELD WELD AFTER SUPPORT SYSTEM IS ADJUSTED FOR THE OPENING AND HEIGHT REQUIREMENTS AND THE BENT PLATE ON THE OPPOSITE SIDE IS SECURED IN PLACE WITH EXPANSION ANCHOR INTO THE CONCRETE.

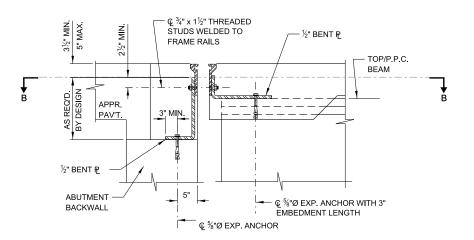


### **ELEVATION**

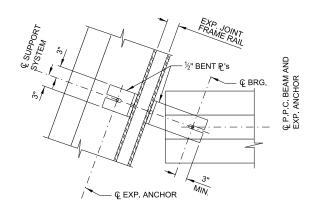


<u>PLAN</u>

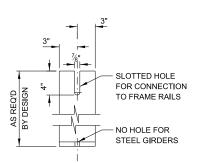
BENT SUPPORT PLATE AT ABUTMENT



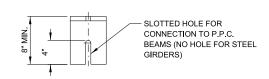
### TYPICAL SECTION THRU EXP. JOINT AND SUPPORT SYSTEM AT P.P.C. BEAMS



### SECTION B-B



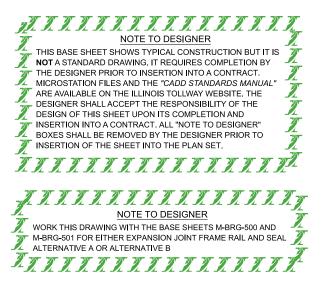
### **ELEVATION**



PLAN

BENT SUPPORT PLATE AT **BRIDGE DECK** 

DETAILS SHOWN ARE OPTIONAL. CONTRACTOR MAY SUBMIT AN ALTERNATIVE SUPPORT SYSTEM FOR APPROVAL.

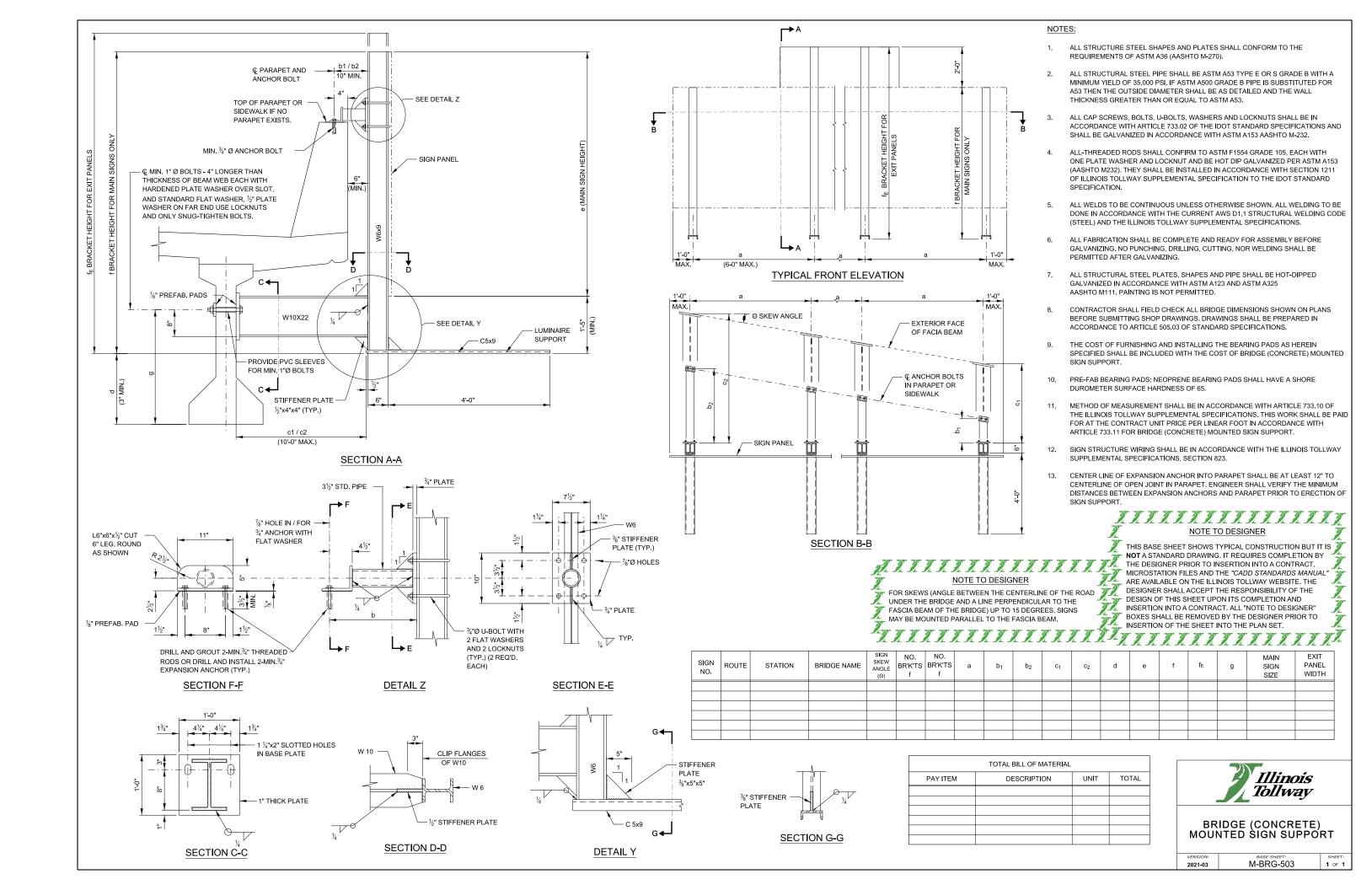


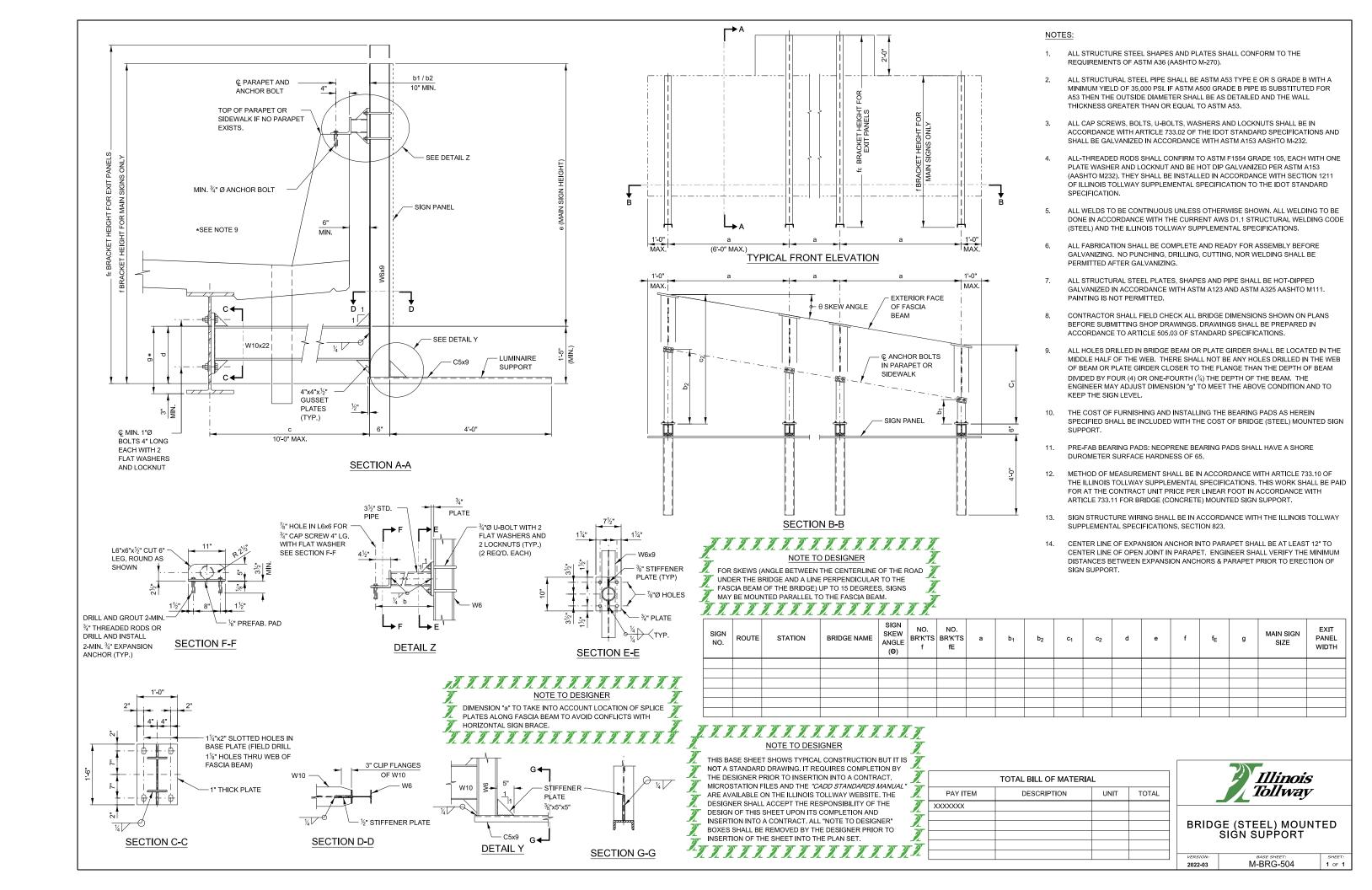


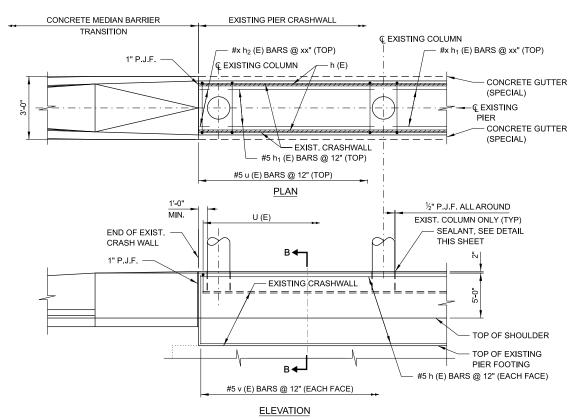
**EXPANSION JOINT FRAME** RAIL SUPPORT SYSTEM

2022-03

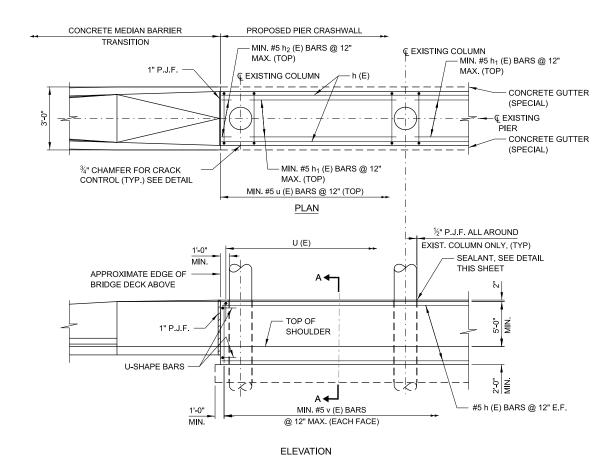
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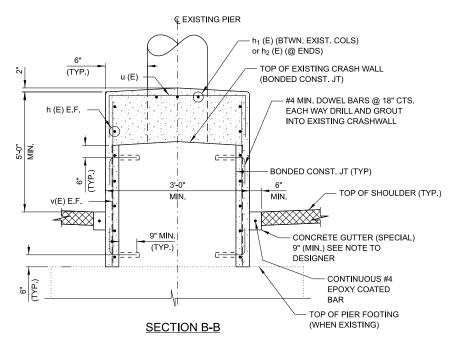


### PROTECTION FOR EXISTING MEDIAN PIER WITH CRASH WALL

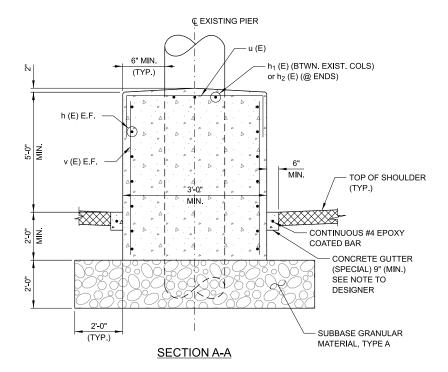


### PROTECTION FOR EXISTING MEDIAN PIER WITHOUT CRASH WALL

TOP REINFORCEMENT SHALL MATCH EXISTING REINFORCEMENT , DOWEL SHALL BE ADEQUATELY DESIGNED FOR LOAD TRANSFER 



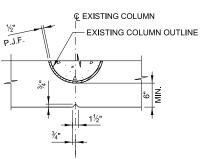
### LAP LENGTH OF h (E) AND v (E) BARS SHALL BE DESIGNED CONSIDERING THE VARIATION IN THE HEIGHT OF THE CRASHWALL

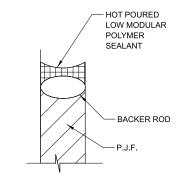


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THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

WHEN THERE IS A MINIMUM DISTANCE OF 6" FROM THE FACE OF THE PIER CRASHWALL TO THE OUTER EDGE OF GUTTER OF THE CONCRETE MEDIAN BARRIER TRANSITION BASE, A CONCRETE GUTTER (SPECIAL) SHALL BE INSTALLED ALONG THE LENGTH OF PIER CRASHWALL WHEN THERE IS LESS THAN 6" DISTANCE AN ASPHALT SHOULDER SHALL BE PLACED TO THE FACE OF THE CRASHWALL. THE WIDTH OF THE PIER CRASHWALL AND GUTTER SHALL BE EQUAL TO THE ADJACENT MEDIAN BARRIER BASE. 





### **CRACK CONTROL DETAIL** REINFORCEMENT BARS OMITTED FOR CLARITY

### SEALANT DETAIL

### NOTES:

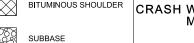
- REMOVE EXISTING CONCRETE CRASHWALL BACK TO FACE OF COLUMNS PRIOR TO PLACING CONCRETE AROUND EXISTING CRASHWALL AND COLUMNS. SURFACES TO RECEIVE NEW CONCRETE SHALL BE BLAST CLEANED. COST OF CLEANING SHALL BE INCLUDED IN THE COST OF CONCRETE REMOVAL.
- CONCRETE MEDIAN BARRIER TRANSITION TAPER LENGTHS, PAY LIMITS AND MEASUREMENT, AND BASIS OF PAYMENT ALL IN ACCORDANCE WITH THE ILLINOIS TOLLWAY STANDARD DRAWING C13, C14 AND THE SPECIAL PROVISIONS.
- THE CLEAR COVER FOR REINFORCEMENT BARS TO THE SURFACE OF CONCRETE SHALL BE 2" UNLESS OTHERWISE SHOWN
- REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
- EXPOSED CONCRETE EDGES SHALL HAVE ¾"x45° CHAMFERS. CHAMFERS ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.
- CONCRETE SEALANT SHALL BE APPLIED TO THE EXPOSED SURFACES OF ALL NEW AND/OR MODIFIED PIER CRASH WALLS.
- E.F. DENOTES EACH FACE.

### LEGEND:





BITUMINOUS SHOULDER



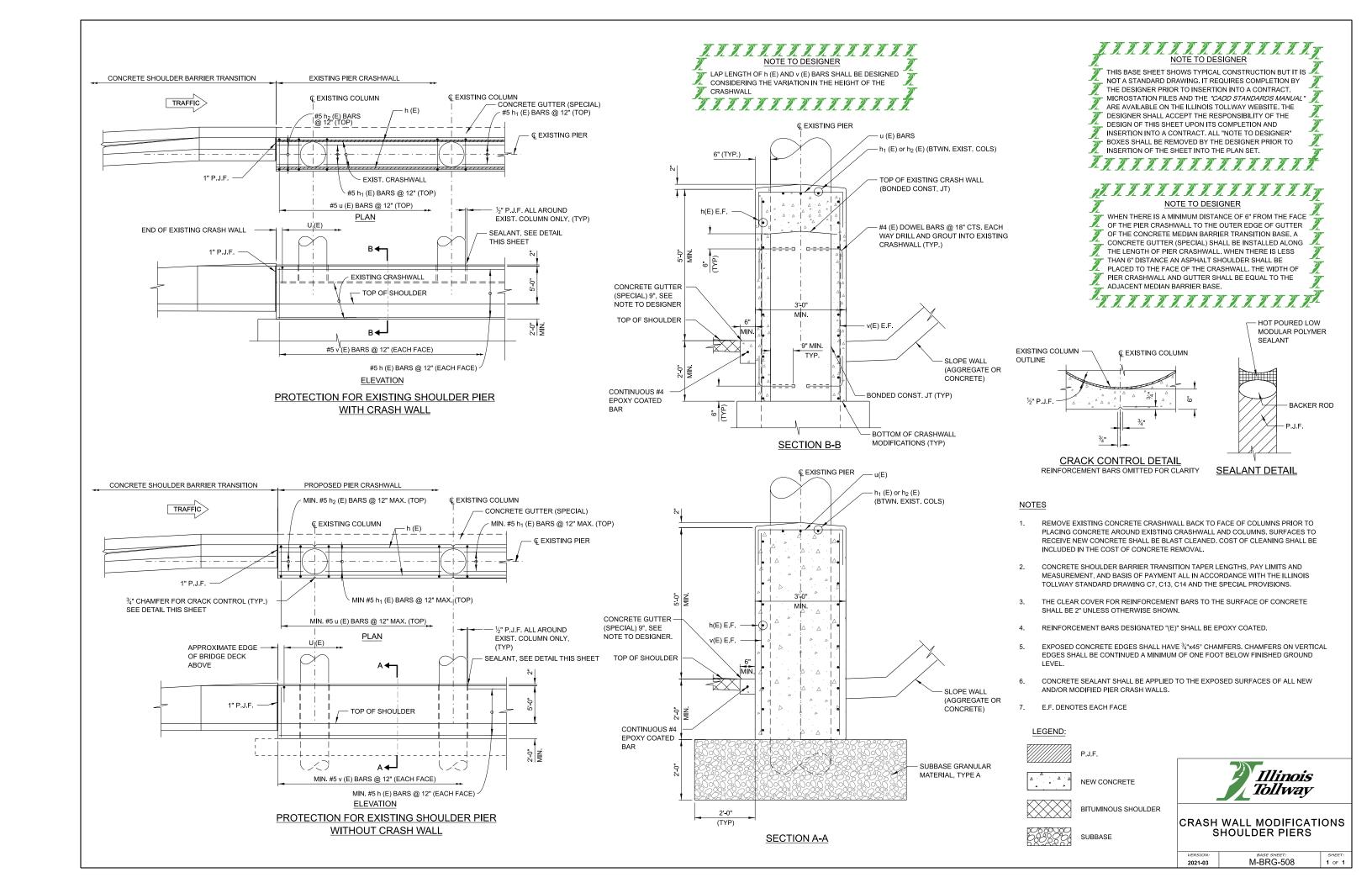
CRASH WALL MODIFICATIONS **MEDIAN PIERS** 

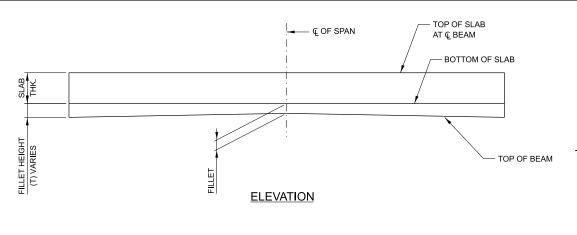
Illinois

1 OF 1

*Tollway* 

M-BRG-507 2022-03





TOP OF BEAM AFTER SLAB, WEARING TOP OF BEAM AFTER-COURSE, SIDEWALKS, PARAPETS AND MEDIAN WHERE APPLICABLE ARE DIAPHRAGMS ARE IN PLACE BEFORE SLAB POURED. IS POURED.

### **CAMBER & DEFLECTION DIAGRAM**

- "A" = PRESTRESS CAMBER
- "B" = DEAD LOAD DEFLECTION
- "C" = RESIDUAL CAMBER
  - ROUND OFF TO NEAREST 1/8"

CONTRACTOR SHALL TAKE ELEVATIONS AT TOP OF BEAMS AFTER ERECTION AND SHALL ALLOW FOR DEFLECTION SHOWN TO ENABLE BUILDING FORMS TO CORRECT GRADE AND SPECIFIED SLAB THICKNESS. PROVIDE COPY OF ELEVATIONS TO THE ENGINEER.

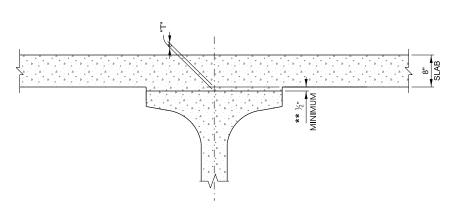
- PRESENT PRACTICE IS TO USE A MINIMUM "FILLET" (AT EDGE OF BEAM FLANGE) OF 1/8" FOR DESIGN CALCULATIONS. THE MINIMUM FILLET (AT EDGE OF BEAM FLANGE) ALLOWED IN CONSTRUCTION IS  $\frac{1}{2}$ " AT MID-SPAN AND 2" AT CENTERLINE OF BEARING.
- \*\* 2. IF ½" MINIMUM FILLET HEIGHT AT EDGE OF BEAM AT MID-SPAN CANNOT BE MAINTAINED DURING CONSTRUCTION, THE GRADE LINE MAY BE RAISED BY UP TO ½" FROM THE PLAN PROFILE AT THE DISCRETION OF THE DESIGNER. 3" MINIMUM DECK EMBEDMENT OF THE TIE BAR SHALL BE MAINTAINED. THE PLAN SLAB THICKNESS SHALL BE HELD.

  3. USE THE CALCULATED THEORETICAL AVERAGE "FILLET" AT CENTERLINE OF FLANGE FOR COMPUTING THE FILLET CONCRETE QUANTITY.

  4. USE TOP OF DECK ELEVATIONS AND CALCULATED "FILLET" AT CENTERLINE OF BEAM FOR COMPUTING BEAM SEAT ELEVATIONS AT SUBSTRUCTURES.

  5. FOR SKEWS < 10°, PLACE INTERMEDIATE DIAPHRAGMS IN A STRAIGHT LINE. REFER TO SHEETS M-BRG-518 PROVIDE OFFSET FOR SKEWS > 10°.

  6. DIAPHRAGM SPACING: FOR SPANS < 80°-0", PLACE ONE DIAPHRAGM AT MID-LENGTH OF BEAM. FOR SPANS OVER 80°-0", PLACE AT ½ AND ½ POINTS.



**ALL GIRDER SIZES** INTERIOR GIRDER DETAIL

## 3/" DRIP NOTCH

**FULL LENGTH** 

45" OR LESS PPC BULB-T EXTERIOR BEAMS **DECK HAUNCH DETAIL** \* VARIABLE, NOT LESS THAN 1/2"

IF  $\frac{1}{2}$ " MINIMUM FILLET HEIGHT AT THE EDGE OF BEAM CANNOT BE MAINTAINED, NOTIFY THE ENGINEER OF RECORD.

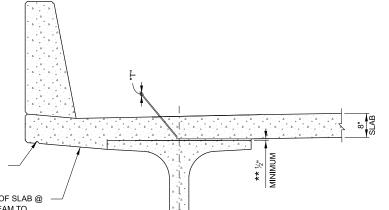
TO DETERMINE "T", ELEV. OF TOP OF BEAMS AT Q OF STRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS: TOP OF DECK ELEV. AT FINAL GRADE

- TOP OF BEAM ELEVATION +DEAD LOAD DEFLECTION

- SLAB THICKNESS =FILLET HEIGHT "T

3/4" DRIP NOTCH FULL LENGTH SLOPE BTM. OF SLAB @ EXTERIOR BEAM TO MATCH THE SLOPE OF THE BTM OF TOP FLANGE

> 54" OR GREATER PPC BULB-T BEAMS SLAB HAUNCH DETAIL



Illinois **Tollway** 

**PPC BEAM DETAILS** 

M-BRG-517

DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING, IT REQUIRES COMPLETION BY

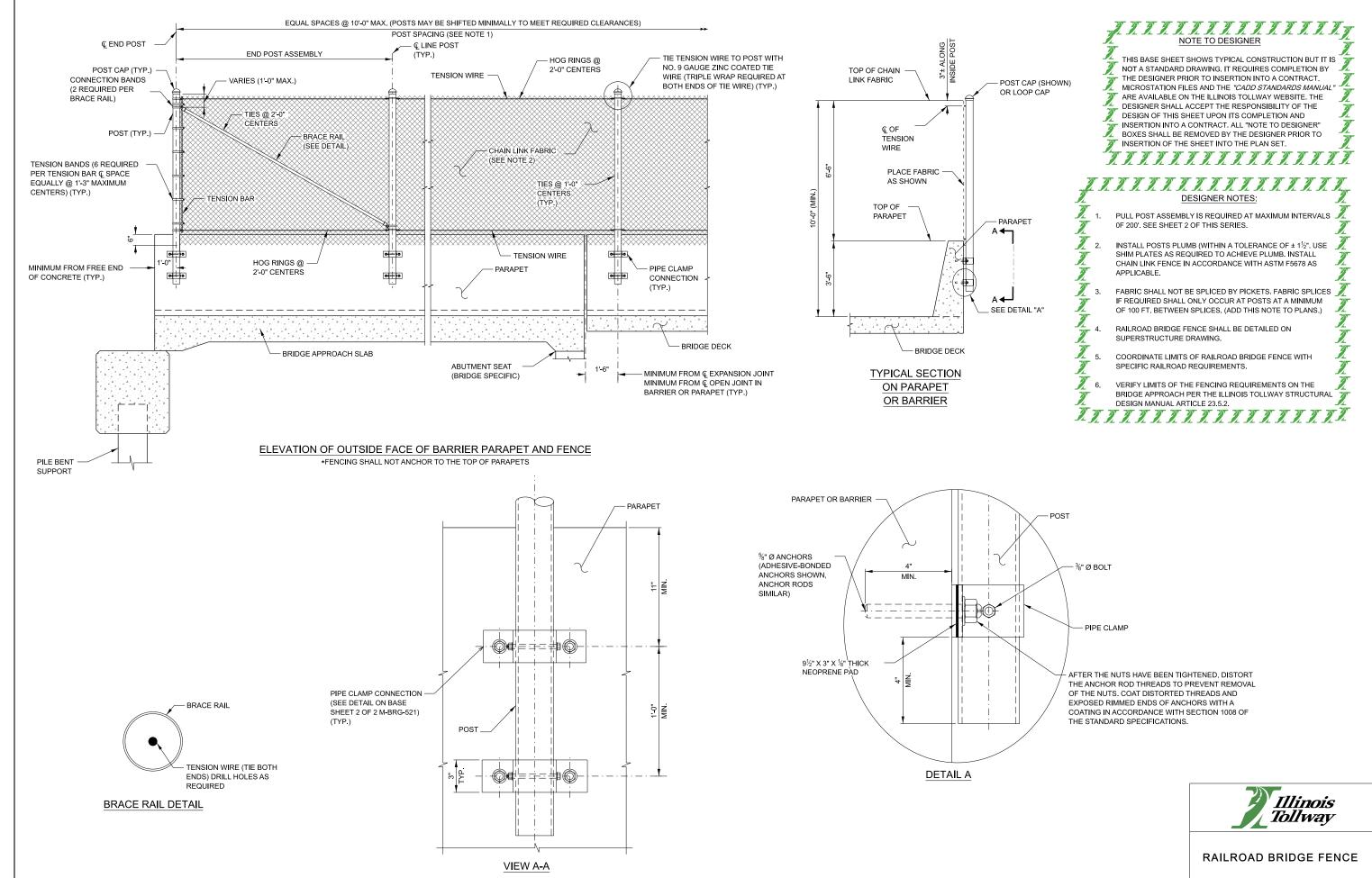
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

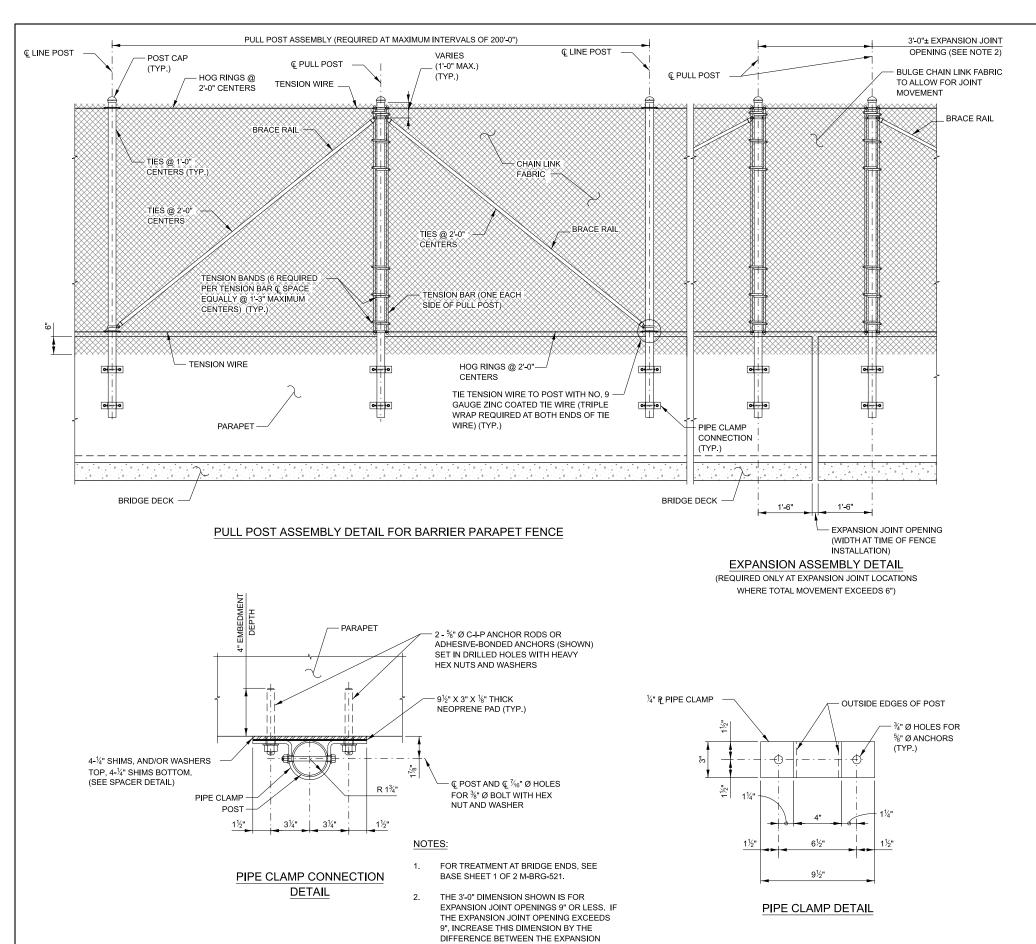
ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

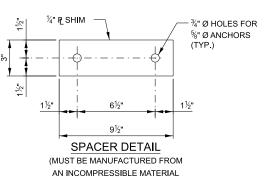
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VERSION: BASE SHEET:
2019-03 M-BRG-521



JOINT OPENING AND 9".



(I.E., STEEL OR ALUMINUM))



RAILROAD BRIDGE FENCE

2 OF 2

M-BRG-521 2019-03

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY

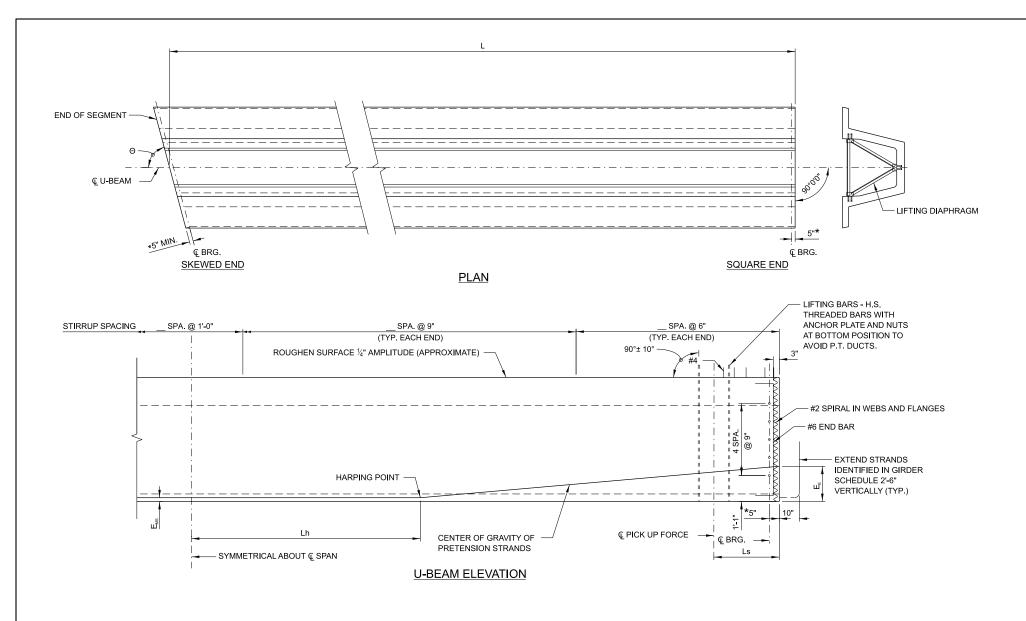
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

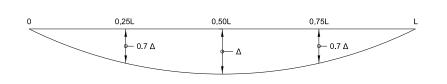
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.







### DEAD LOAD DEFLECTION DIAGRAM

|      |        |      |       |       |        |       |       |      | l                | J-BEAM SC            | CHED  | ULE             |        |        |                           |                              |                            |                 |       |               |
|------|--------|------|-------|-------|--------|-------|-------|------|------------------|----------------------|-------|-----------------|--------|--------|---------------------------|------------------------------|----------------------------|-----------------|-------|---------------|
| SPAN | GIRDER | L    | Fw    | D     | θ      | Tw    | Tb    | Lh   | A <sub>s</sub> . | DEBOND               | E     | E <sub>ms</sub> | F,     | F,     | CONCE                     |                              |                            | PREDICTED       |       | NDS TO<br>END |
| NO.  | NO.    | (Ft) | (In.) | (ln.) | (Deg.) | (ln.) | (ln.) | (Ft) | In.²             | STRANDS<br>(PERCENT) | (ln.) | (ln.)           | (kips) | (kips) | f'。<br>(psi) @<br>RELEASE | f'.<br>(psl)<br>@ 28<br>DAYS | 40 DAYS<br>& @ 120<br>DAYS | CAMBER<br>(in.) | END 1 | END 2         |
|      |        |      |       |       |        |       |       |      |                  |                      |       |                 |        |        |                           |                              |                            |                 |       |               |
|      |        |      |       |       |        |       |       |      |                  |                      |       |                 |        |        |                           |                              |                            |                 |       |               |
|      |        |      |       |       |        |       |       |      |                  |                      |       |                 |        |        |                           |                              |                            |                 |       |               |

TOP OF BEAM TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF BEAM, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE

THE BEAM SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE BEAMS.

LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 504 OF STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, CONTRACTOR TO DESIGN OTHER LIETING MECHANISM IF THE GIRDER SECTION WEIGHT EXCEEDS 200 KIPS

STRANDS SHALL BE FLUSH WITH END OF BEAM, FOR BEAM ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR BEAM ENDS THAT ARE FINALLY EXPOSED, COAT THE BEAM ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE BEAM ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL U-BEAMS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR CHOOSES TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, ONE OPTION IS AVAILABLE:

USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

PRESTRESSING STRANDS SHALL BE 0.6" DIA., 7-WIRE LOW, RELAXATION FOR ALL PATTERNS WITH AN ULTIMATE STRENGTH OF 270,000 psi, THE MAX NUMBER OF DRAPED 0.6"Ø STRANDS

- = MINIMUM AREA OF THE PRESTRESSING STEEL.
- = NOMINAL STRAND DIAMETER.
- = ULTIMATE STRENGTH OF THE PRESTRESSING STEEL.
- = JACKING FORCE PER U-BEAM.
- = FINAL FORCE PER U-BEAM AFTER ALL LOSSES.
- = REQUIRED CONCRETE STRENGTH AT RELEASE OF PRESTRESS FORCE.
- = REQUIRED CONCRETE STRENGTH AT 28 DAYS OF AGE
- = LENGTH OF U-BEAM ALONG THE GRADE OF THE U-BEAM
- = DEFLECTION AT CENTERLINE OF SPAN DUE TO CAST-IN-PLACE SLAB, SIDEWALK AND PARAPETS.
- = PROJECTION. 6" IN THE MIDDLE 1/3 OF THE MEMBER VARYING TO THE SPECIFIED HAUNCH AT THE BEARING PLUS 4".
- = BRIDGE SKEW ANGLE

PREDICTED CAMBER IS THE CAMBER FOR THE GIRDER ALONE AT \_\_\_ DAYS.

CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY CONTRACTOR TO INSURE THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING ONCE ERECTED. ALL GIRDERS SHALL BE BRACED LATERALLY TO PREVENT TIPPING UNTIL ALL DIAPHRAGMS ARE CAST AND CURED.

### TITITITITITITITITITE NOTE TO DESIGNER

SPECIFY CONCRETE STRENGTH AS REQUIRED BY DESIGN FROM A MINIMUM OF 6,000 PSI TO A MAX. OF 8,500 PSI.

REINFORCEMENT IN STANDARD END SECTION OF THE BEAM IS BASED ON THE STRAND PATTERNS LISTED ON SHEET 2 OF 2 M-BRG-522. USING DIFFERENT STRAND PATTERNS WILL REQUIRE A COMPLETE DESIGN OF THIS REINFORCEMENT. PRIOR APPROVAL FROM THE ILLINOIS TOLLWAY IS REQUIRED IF DESIGN OF THE END REINFORCEMENT IS REQUIRED.

THE DESIGN ENGINEER DETERMINES THE PROJECTION OF BAR G1 BASED ON 2" MIN. HAUNCH AT EDGE OF BEAM, X-SLOPE, PROFILE GRADE LINE AND CALCULATED RESIDUAL BEAM CAMBER INCLUDING THE CAMBER MULTIPLIER OF 1.8 FOR I-BEAMS, 1.4 FOR TUB GIRDERS, THIS VALUE CAN VARY AND SHOULD BE GIVEN FOR EACH OF THE BEAM LENGTH. PROVIDE VALUES THAT MAINTAIN 3" MIN. DECK EMBEDMENT AND 2" CLEAR FROM TOP OF DECK WHILE ACCOUNTING FOR  $\pm 34$ " VARIANCE IN ACTUAL CAMBER VERSUS THE CALCULATED RESIDUAL CAMBER

DIMENSIONS NOTED WITH (\*) ARE A FUNCTION OF THE DESIGN REQUIREMENTS AND MAY VARY. DIMENSION IN THE GIRDER SCHEDULE SHALL BE SHOWN TO THE NEAREST  $\frac{1}{8}$ ". NARARARARARARARARA

### NOTE TO DESIGNER

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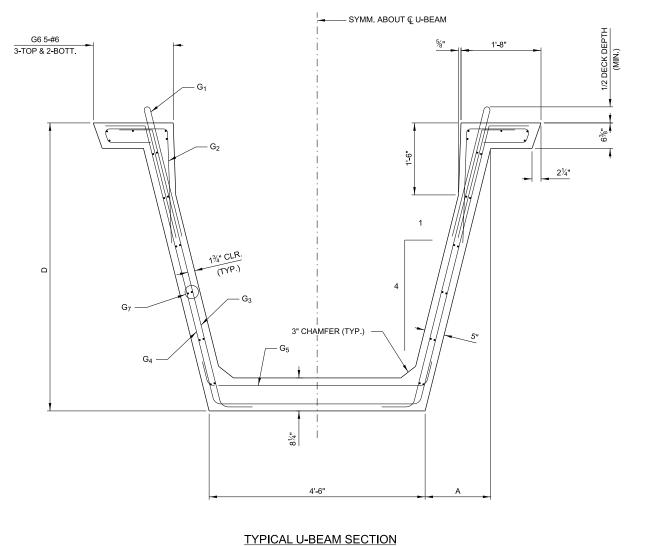


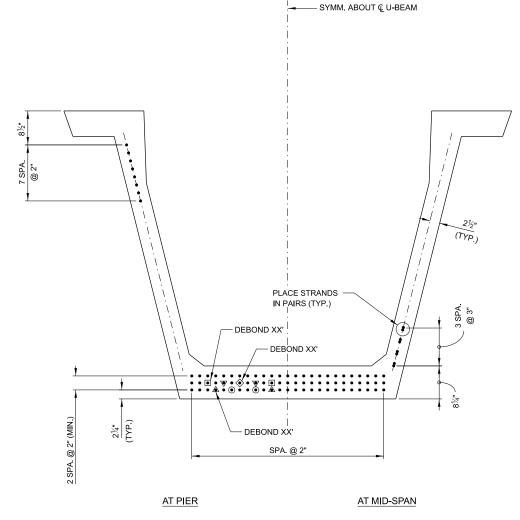
PPC U-BEAM PRETENSIONED

2019-03

M-BRG-522

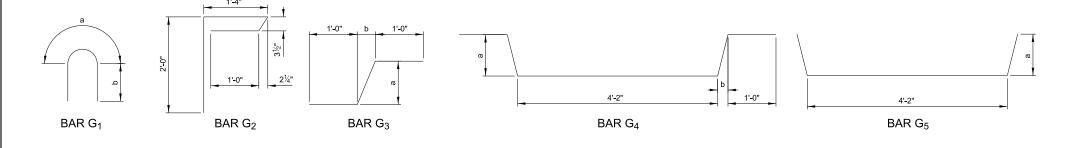
1 of 2





### TYPICAL U-BEAM PRESTRESSING (PRETENSIONING)

(REINFORCEMENT SHOWN AT SPAN)



### NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"
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### **BAR LIST**

|                | _   |      |        |        |
|----------------|-----|------|--------|--------|
| BAR            | NO. | SIZE | LENGTH | SHAPE  |
| G <sub>1</sub> | 0   | #4   | X'-X"  | $\cap$ |
| G <sub>2</sub> |     |      |        |        |
| G <sub>3</sub> |     |      |        | _      |
| G <sub>4</sub> |     |      |        |        |
| G <sub>5</sub> |     |      |        |        |
| G <sub>6</sub> | 10  | #6   |        |        |
| G <sub>7</sub> |     |      |        |        |

### VARIABLE DIMENSIONS

| BAR  | а | b |
|--|---|---|
| G <sub>1</sub>                                     |   |   |
| G <sub>2</sub><br>G <sub>3</sub><br>G <sub>4</sub> |   |   |
| G <sub>3</sub>                                     |   |   |
| G <sub>4</sub>                                     |   |   |
| G <sub>5</sub>                                     |   |   |
|  |   |   |
|  |   |   |

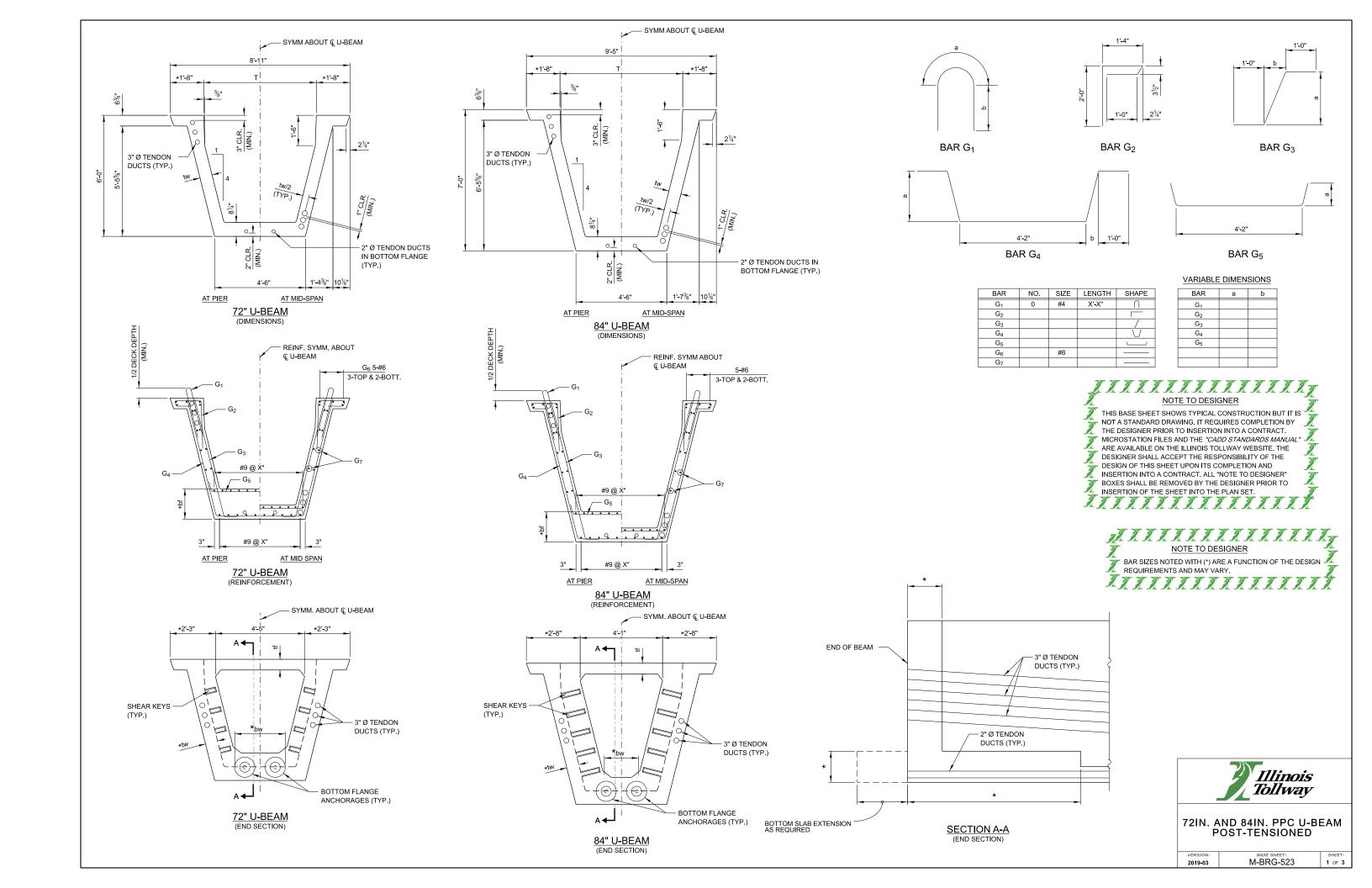
**BEAM TABLE** 

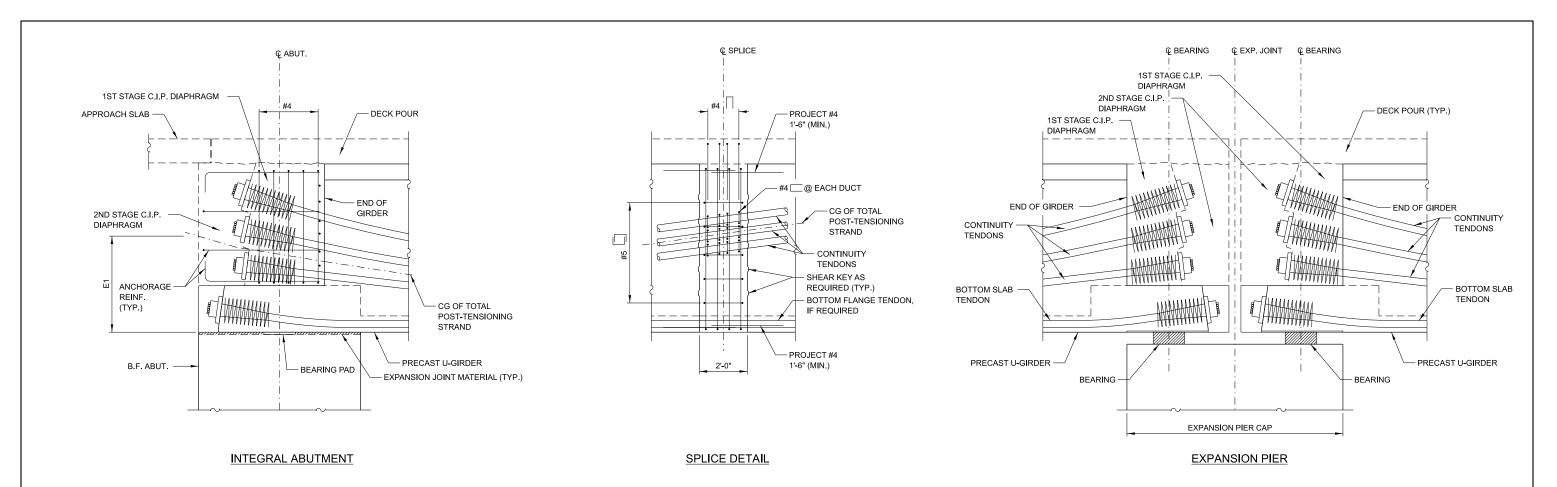
| D   | Α      |
|-----|--------|
| 48" | 10%"   |
| 60" | 1'-1%" |
| 72" | 1'-4%" |
|     |        |

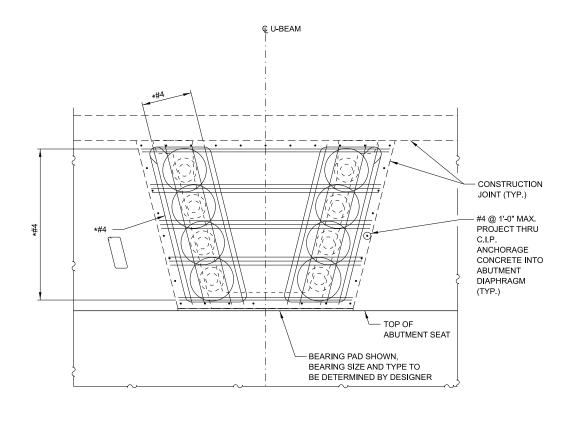


PPC U-BEAM PRETENSIONED

| VERSION: | BASE SHEET: | SHEET: |
|----------|-------------|--------|
| 2019-03  | M-BRG-522   | 2 OF 2 |







**END VIEW** (INTEGRAL ABUTMENT)

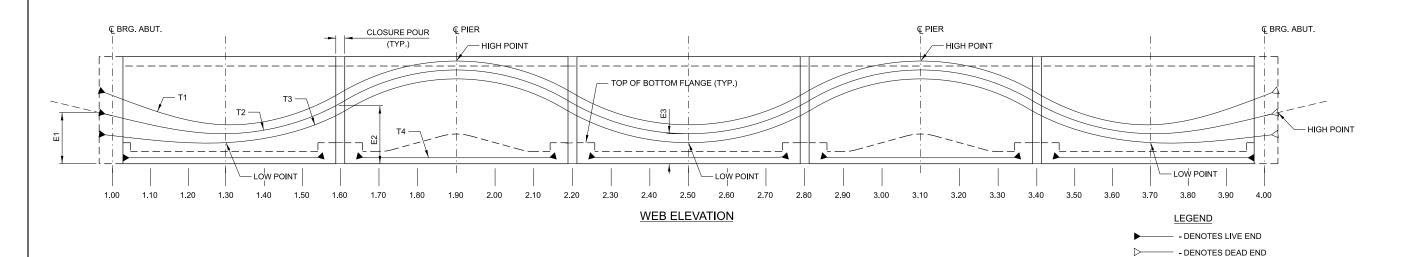




72IN. AND 84IN. PPC U-BEAM POST-TENSIONED

2019-03

M-BRG-523



|        |       |      |      |      |      |      |      |      |      |      |      |      |      |      | L    | OCATIO | N    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| TENDON | 1.00  | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50   | 2.60 | 2.70 | 2.80 | 2.90 | 3.00 | 3.10 | 3.20 | 3.30 | 3.40 | 3.50 | 3.60 | 3.70 | 3.80 | 3.90 | 4.00 |
| T1     | X.XX' |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| T2     | X.XX' |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Т3     | X.XX' |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| T4     | X.XX' |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|        |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

### **TENDON PROFILE**

|          |            |         |           |                | POS           | T-TENSIONING TABL | E             |                            |         |         |         |
|----------|------------|---------|-----------|----------------|---------------|-------------------|---------------|----------------------------|---------|---------|---------|
|          | 0100000110 | MIN. CO | MPRESSIVE | STRENGTH (KSI) | NUMBER        | PRESTRESSING      | LOAD (KSI)    | TOTAL                      |         |         |         |
| SPAN NO. | GIRDER NO. |         | N NO.     | GIRDER NO.     | OF<br>STRANDS | JACKING           | AFTER SEATING | PRESTRESSING<br>LOSS (KSI) | E1 (in) | E2 (in) | E3 (in) |
|          |            | f'c     | f'ci      |                | STRAINDS      |                   |               |                            |         |         |         |
|          |            |         |           |                |               |                   |               |                            |         |         |         |
|          |            |         |           |                |               |                   |               |                            |         |         |         |

### NOTES:

REINFORCING THAT INTERFERES WITH THE PRESTRESSING TENDON ALIGNMENT SHALL BE ADJUSTED AS APPROVED BY THE ENGINEER.

WHERE DEAD END ANCHORAGE AND TENDONS ARE ACCESSIBLE, THE ANCHORAGE SYSTEM AND LENGTH OF PROJECTING PRESTRESSING STEEL SHALL PERMIT JACKING WITH THE SAME JACKING EQUIPMENT THAT WAS USED ON THE LIVE END.

DEVIATIONS FROM THE DUCT PATTERN, DUCT SIZE, AND STRAND SIZE ASSUMED IN THE DESIGN MUST BE APPROVED BY THE ENGINEER.

THE DEFLECTION SHOWN IS POSITIVE DOWNWARD. IT INCLUDES THE INSTANTANEOUS EFFECTS OF DEAD LOAD AND PRESTRESSING, AND A FACTOR OF THREE (3) MULTIPLIER TO ACCOUNT FOR LONG TERM CREEP. FORMED WEB ELEVATIONS MUST BE ADJUSTED UPWARD FOR AN INDICATED POSITIVE DEFLECTION.

### STRESSING SEQUENCE:

CONTRACTOR SHALL SUBMIT THE STRESSING AND ELONGATION CALCULATIONS TO THE ENGINEER FOR APPROVAL. ALL LOSES DUE TO TENDON VERTICAL AND HORIZONTAL CURVATURES MUST BE INCLUDED IN ELONGATION CALCULATIONS. THE STRESSING SEQUENCE SHALL MEET THE FOLLOWING CRITERIA.

- 1. TENDONS MAY BE JACKED FROM BOTH ENDS, EITHER SIMULTANEOUSLY OR SEQUENTIALLY, OR ½ THE TENDONS MAY BE JACKED FROM EACH END. IF THE TENDONS ARE JACKED FROM EACH END THE JACKING FORCE SHALL BE INCREASED \_\_\_\_KIPS. IF JACKING FORCE OR STEEL AREA IS GREATER THAN ASSUMED IN THE DESIGN, PRESTRESSING QUANTITIES SHALL NOT BE ADJUSTED.
- 2. NO MORE THAN ½ OF THE PRESTRESSING FORCE IN ANY WEB MAY BE STRESSED BEFORE AN EQUAL FORCE IS STRESSED IN THE ADJACENT WEBS. AT NO TIME DURING THE STRESSING OPERATIONS WILL MORE THAN 10% OF THE TOTAL PRESTRESSING FORCE BE APPLIED ECCENTRICALLY ABOUT THE CENTER! INFO OF THE STRUCTURE
- 3. AT THE CONTRACTORS OPTION, THE PRESTRESSING FORCE MAY VARY ±5% FROM THE THEORETICAL FORCE PER WEB PROVIDED THE TOTAL P(JACK) FORCE IS OBTAINED AND IS DISTRIBUTED SYMMETRICALLY ABOUT THE CENTERLINE OF THE TYPICAL SECTION. P(JACK) IS THE SUM OF THE PEAK FORCES REACHED DURING JACKING IN EACH TENDON.
- BOTTOM FLANGE TENDONS TO BE STRESSED AT CASTING YARD OR ON SITE BEFORE CLOSURE POURS ARE FORMED AND CAST.

### POST-TENSIONING NOTES:

THE MINIMUM COMPRESSIVE STRENGTH OF THE CAST-IN-PLACE CONCRETE AT THE CLOSURE AT THE TIME OF POST-TENSIONING SHALL BE AS SHOWN IN POST-TENSIONING TABLE.

THE MAXIMUM OUTSIDE DIAMETER OF THE DUCT SHALL BE ——INCHES. THE AREA OF THE DUCT SHALL BE AT LEAST 2.5 TIMES THE NET AREA OF THE PRESTRESSING STEEL IN THE DUCT.

THE DESIGN IS BASED ON 0.6" DIA. LOW RELAXATION STRANDS MEETING THE REQUIREMENT OF ASTM A416 GRADE 270 WITH AN ANCHOR SET OF %", A CURVATURE FRICTION COEFFICIENT, K=0.0002/FT. THE ACTUAL ANCHOR SET AND JACKING FORCE USED BY THE CONTRACTOR SHALL BE SPECIFIED IN THE SHOP PLANS AND INCLUDED IN THE TRANSFER FORCE CALCULATIONS.

THE DESIGN IN BASED ON THE ESTIMATED PRESTRESS LOSS OF POST-TENSIONING STRANDS SHOWN IN THE POST-TENSIONING TABLE DUE TO STEEL RELAXATION, ELASTIC SHORTENING CREEP AND SHRINKAGE OF COMPRETE.

# © OF STRANDS © OF DUCTS OF DUCTS

€ OF DUCTS

STRAND LOCATION DETAIL

### NOTE TO DESIGNER

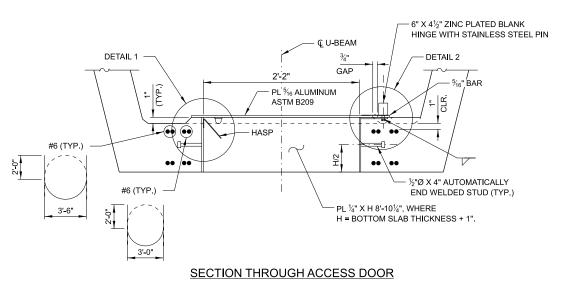
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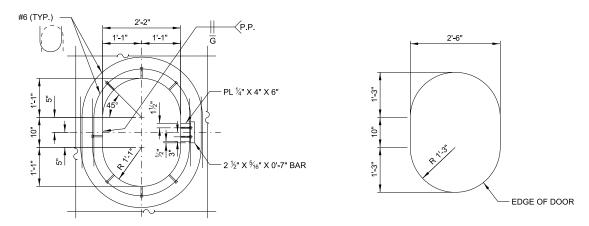


72IN. AND 84IN. PPC U-BEAM POST-TENSIONED

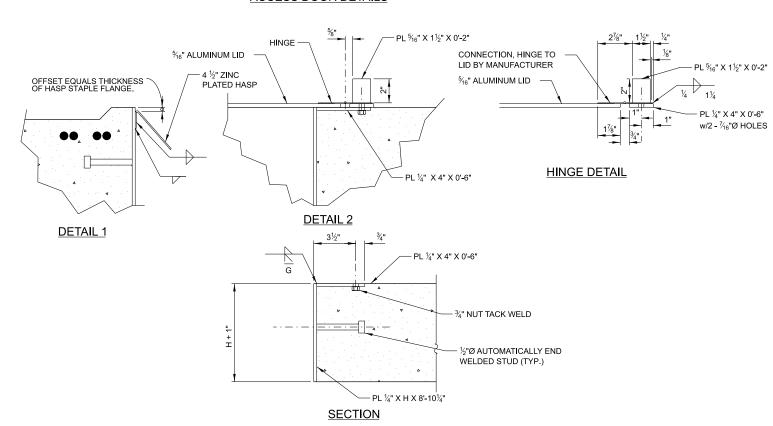
VERSION: 2019-03 BASE SHEET: M-BRG-523

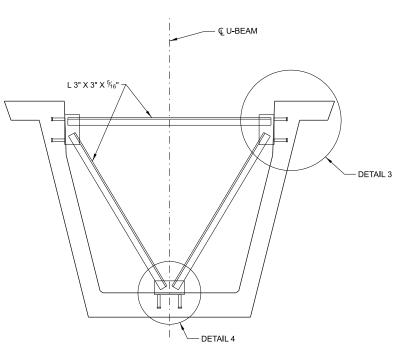
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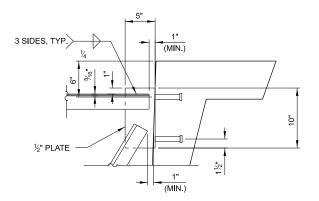


### **ACCESS DOOR DETAILS**

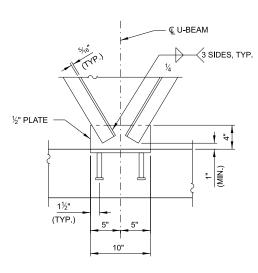




**LIFTING DIAPHRAGM** 



DETAIL 3



DETAIL 4

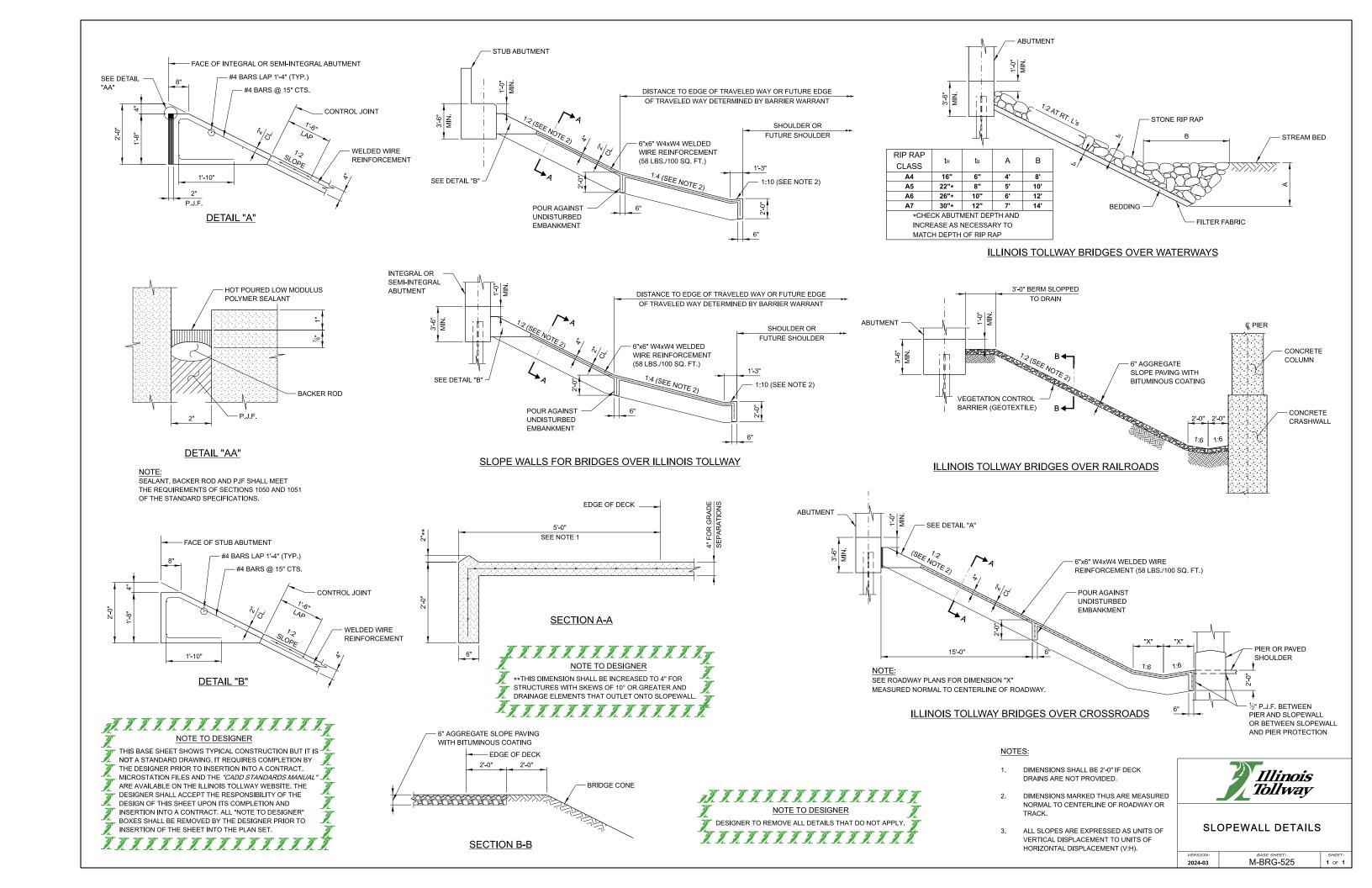
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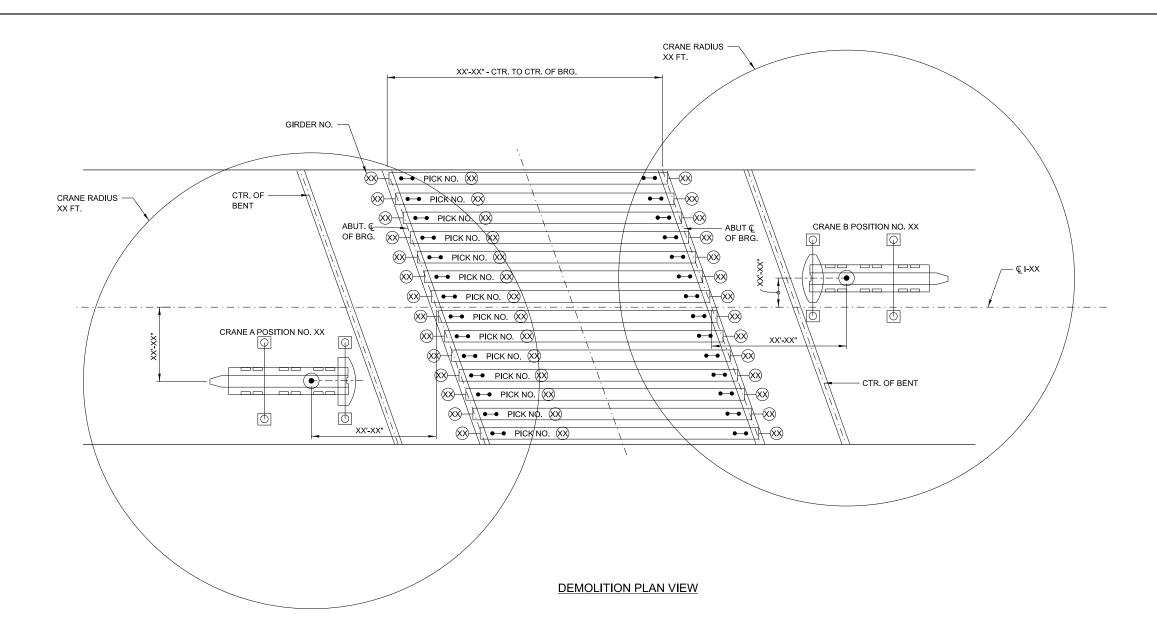


PPC U-BEAM MISCELLANEOUS DETAILS

SHEET: 1 OF 1

2014-12 M-BRG-524





### **SCOPE OF WORK**

- 1. LOCATION OF WORK ACTIVITIES.
- 2. LOAD TO BE LIFTED DESCRIPTION DETAIL (LIFTING
- POINTS, DIMENSIONS OF LOAD, CENTER OF GRAVITY, ETC.) 3. LOAD CALCULATION: LOAD WEIGHT, LIFTING GEAR WEIGHT, HOOK BLOCK WEIGHT, TOTAL WEIGHT, SAFETY FACTOR, CRANE CAPACITY USAGE (LOAD/SAFE WORKING LOAD (SWL)) (%).
- 4. MAXIMUM CRANE LOAD TO BE USED FOR CRANE PAD
- 5. LIST GROUND ALLOWABLE BEARING PRESSURE AT CRANE LOADING LOCATIONS.
- 6. SCHEDULE WITH SPECIFIC WORKING HOUR LIMITATIONS
- 7. LIST OF OPERATOR/LIFT SUPERVISOR QUALIFICATION.

### **CRANE INFORMATION:**

### CRANE "A"-XXX TON HYDRO (OR EQUIVALENT)

COUNTERWEIGHT XXX,XXX LBS.

MAIN BOOM = XXX' ANTICIPATED MAX WEIGHT XX,XXX LBS.

CAPACITY AT RADIUS= XX,XXX LBS. MAX RADIUS=XX'-X" SWING SPEED= XX MPH

SWING SPEED=XX MPH.

### CRANE "B"-XXX TON HYDRO

(OR EQUIVALENT) COUNTERWEIGHT XXX,XXX LBS. MAIN BOOM = XXX' ANTICIPATED MAX WEIGHT XX,XXX LBS. CAPACITY AT RADIUS= XX,XXX LBS. MAX RADIUS=XX'-X"

### **LIMITATIONS:**

- 1. ACCESS AND EGRESS FOR THE ASSEMBLY AND DISASSEMBLY OF THE CRANE AND THE MATERIALS TO BE LIFTED WILL BE
- 2. FEDERAL AVIATION ADMINISTRATION (FAA) RESTRICTIONS
- 3. CRANE REACTIONS SITE GROUND IS SUITABLE / NON SUITABLE FOR CRANE OPERATION, PAD SIZE
- 4. CRANE'S SUPERSTRUCTURE ROTATES 360° WITHOUT COMING INTO CONTACT WITH ANY OBJECT.
- 5. BOOM DEFLECTION TO BE CONSIDERED ARE
- 6. ENVIRONMENTAL CONSIDERATIONS (MAXIMUM PERMISSIBLE WIND \_,WEATHER \_ \_, LIGHTNING \_\_ \_\_) IN WHICH LIFT OPERATIONS ARE
- 7. ELECTRICAL HAZARD (OVERHEAD/UNDERGROUND). CLEARANCE DISTANCES \_\_\_\_\_ SPOTTER IS REQUIRED/NOT REQUIRED. PUBLIC UTILITY CONTACT REQUIRED (LIST CONTACT INFORMATION).

### NOTE TO DESIGNER

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### NOTE TO DESIGNER

THIS BASE SHEET DEPICTS DEMOLITION OF CONCRETE GIRDERS, STEEL GIRDERS WOULD BE SIMILAR.

SUGGEST IDENTIFY BEAM WEIGHTS OR PICK WEIGHTS AND IDENTIFY CROSS FRAMES TO BE REMOVED DURING DEMOLITION.

**DEMOLITION SEQUENCE:** 

1. "XX"

2. "XX"

3. "XX"

4. "XX"

"XX" DESIGNATES DIMENSION VALUES OR INPUT DATA TO BE PROVIDED ON SUBMITTED DRAWING.

SEQUENCE SHALL ADDRESS TEMPORARY BLOCKING, BRACING 🚣 OR OTHER TEMPORARY SUPPORTS.

SEQUENCE OF LOAD PLACEMENT SHALL CONFIRM STRUCTURE Z Paranana mananana

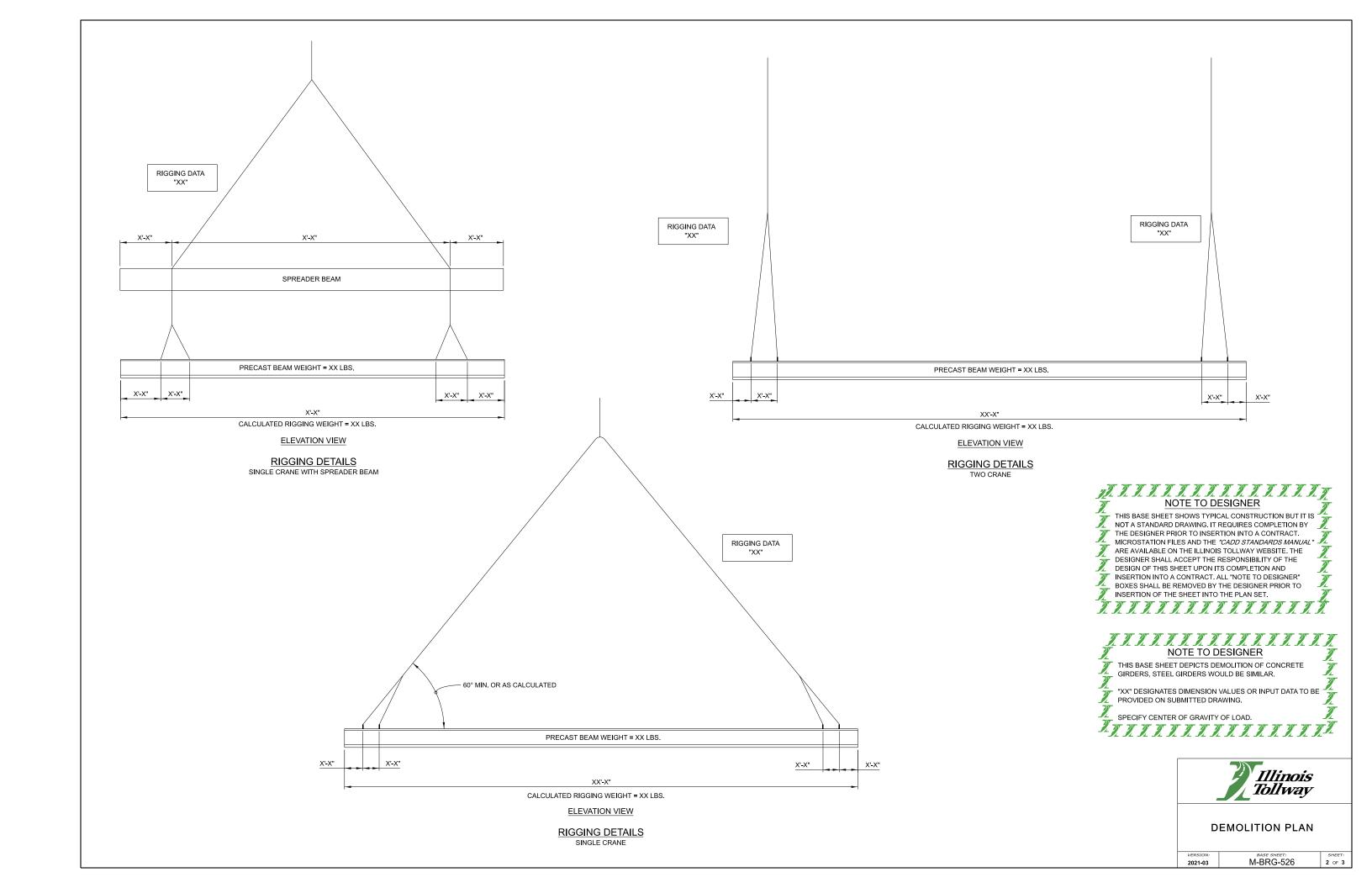


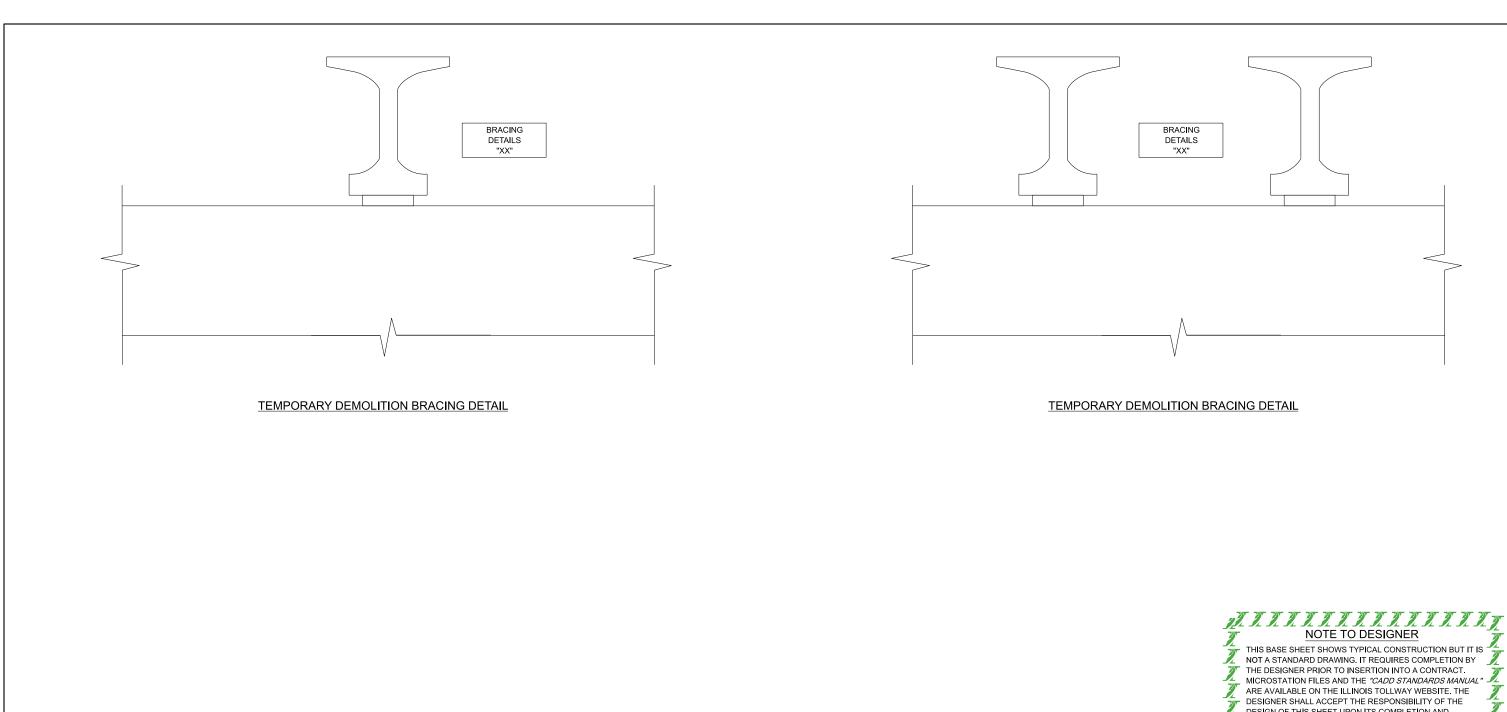
**DEMOLITION PLAN** 

2021-03

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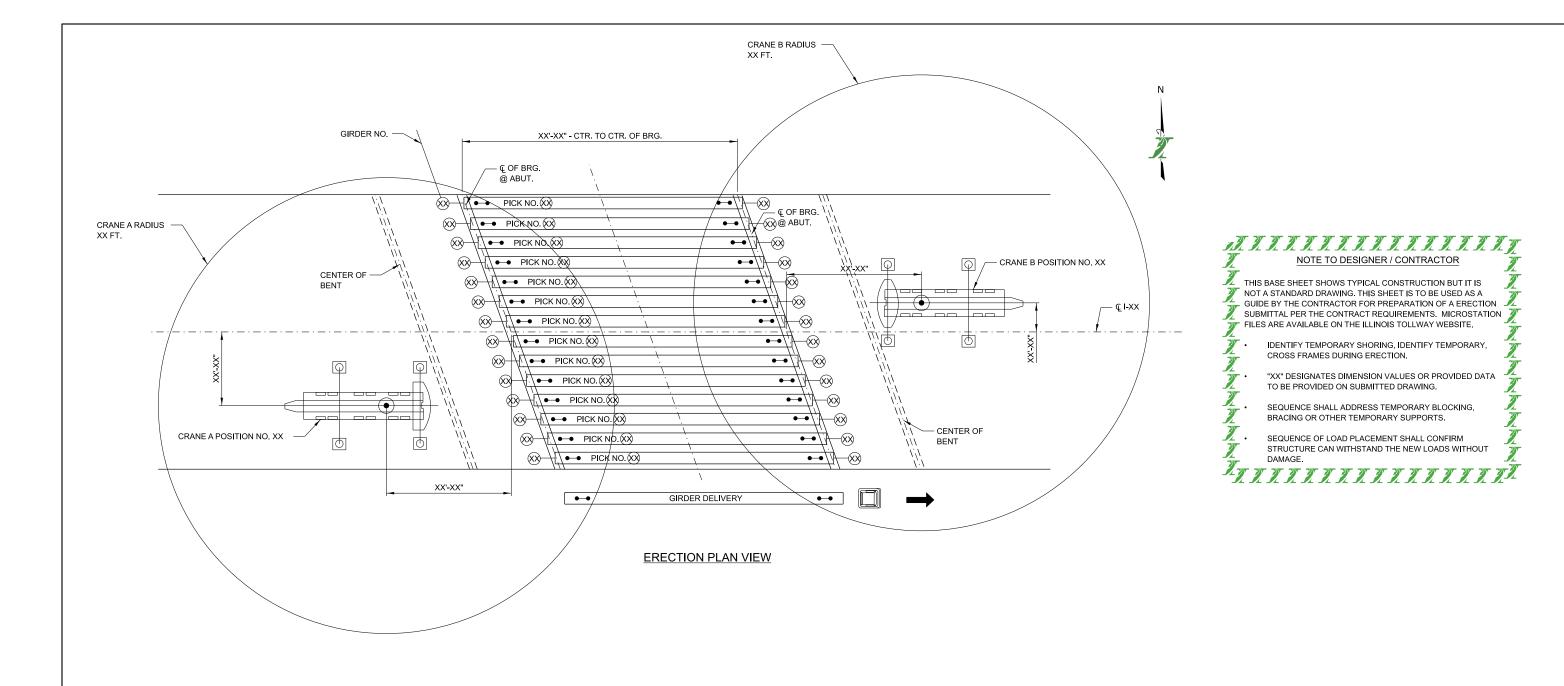
"XX" DESIGNATES DIMENSION VALUES OR INPUT DATA TO BE PROVIDED ON SUBMITTED DRAWING. TITITION TO SUBMITTED DISCONING.



**DEMOLITION PLAN** 

2021-03

M-BRG-526



### SCOPE OF WORK:

- LOCATION OF WORK ACTIVITIES.
- LOAD TO BE LIFTED DESCRIPTION DETAIL (LIFTING POINTS, DIMENSIONS OF LOAD, CENTER OF GRAVITY, ETC.)
- LOAD CALCULATION: LOAD WEIGHT, LIFTING GEAR WEIGHT, HOOK BLOCK WEIGHT, TOTAL WEIGHT, SAFETY FACTOR, CRANE CAPACITY USAGE (LOAD/SAFE WORKING LOAD (SWL)) (%).
- MAXIMUM CRANE LOAD TO BE USED FOR CRANE PAD SIZE.
- LIST GROUND ALLOWABLE BEARING PRESSURE AT CRANE LOADING LOCATIONS.
- SCHEDULE WITH SPECIFIC WORKING HOUR LIMITATIONS.
- LIST OF OPERATOR/LIFT SUPERVISOR QUALIFICATION.

### **CRANE INFORMATION:**

### CRANE "A"-XXX TON HYDRO

(OR EQUIVALENT) COUNTERWEIGHT XXX,XXX LBS. MAIN BOOM = XXX' ANTICIPATED MAX WEIGHT XX,XXX LBS. CAPACITY AT RADIUS= XX,XXX LBS. MAX RADIUS=XX'-X" SWING SPEED= XX MPH

### CRANE "B"-XXX TON HYDRO

COUNTERWEIGHT XXX,XXX LBS. MAIN BOOM = XXX' ANTICIPATED MAX WEIGHT XX,XXX LBS. CAPACITY AT RADIUS= XX,XXX LBS. MAX RADIUS=XX'-X" SWING SPEED=XX MPH.

### LIMITATIONS:

- 1. ACCESS AND EGRESS FOR THE ASSEMBLY AND DISASSEMBLY OF THE CRANE AND THE MATERIALS TO BE LIFTED WILL BE
- 2. FEDERAL AVIATION ADMINISTRATION (FAA) RESTRICTIONS
- 3. CRANE REACTIONS \_\_\_\_ SITE GROUND IS SUITABLE / NON SUITABLE FOR CRANE OPERATION, PAD SIZE
- 4. CRANE'S SUPERSTRUCTURE ROTATES 360° WITHOUT COMING INTO CONTACT WITH ANY OBJECT.
- 5. BOOM DEFLECTION TO BE CONSIDERED ARE \_
- 6. ENVIRONMENTAL CONSIDERATIONS
- (MAXIMUM PERMISSIBLE WIND \_\_\_\_\_, WEATHER \_\_\_\_, LIGHTNING \_\_\_ ) IN WHICH LIFT OPERATIONS ARE TO BE STOPPED.
- 7. ELECTRICAL HAZARD (OVERHEAD / UNDERGROUND). CLEARANCE DISTANCES \_ SPOTTER IS REQUIRED / NOT REQUIRED. PUBLIC UTILITY CONTACT REQUIRED (LIST CONTACT INFORMATION).

### **ERECTION SEQUENCE:**

"XX"

"XX"

"XX"

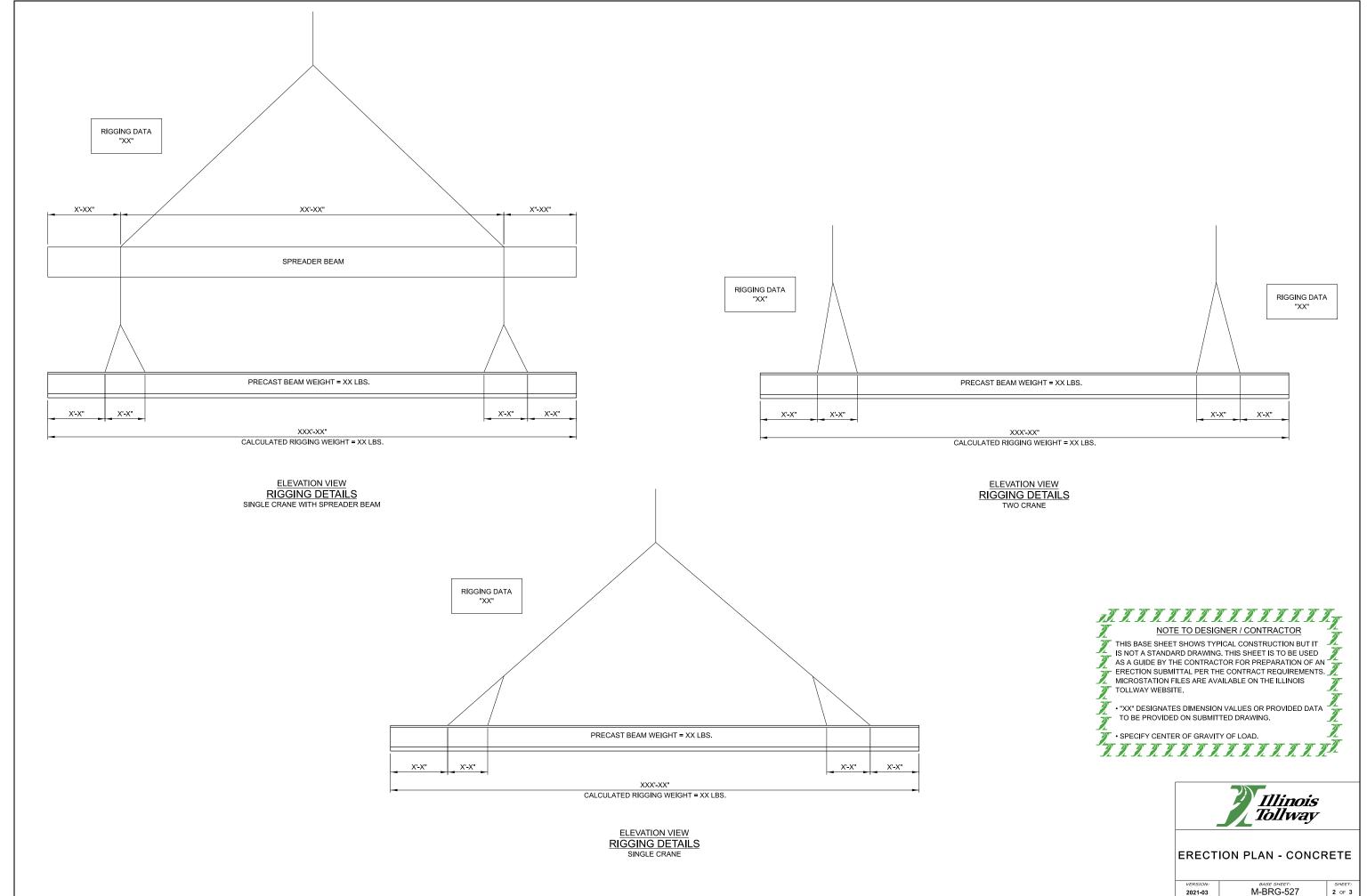


ERECTION PLAN - CONCRETE

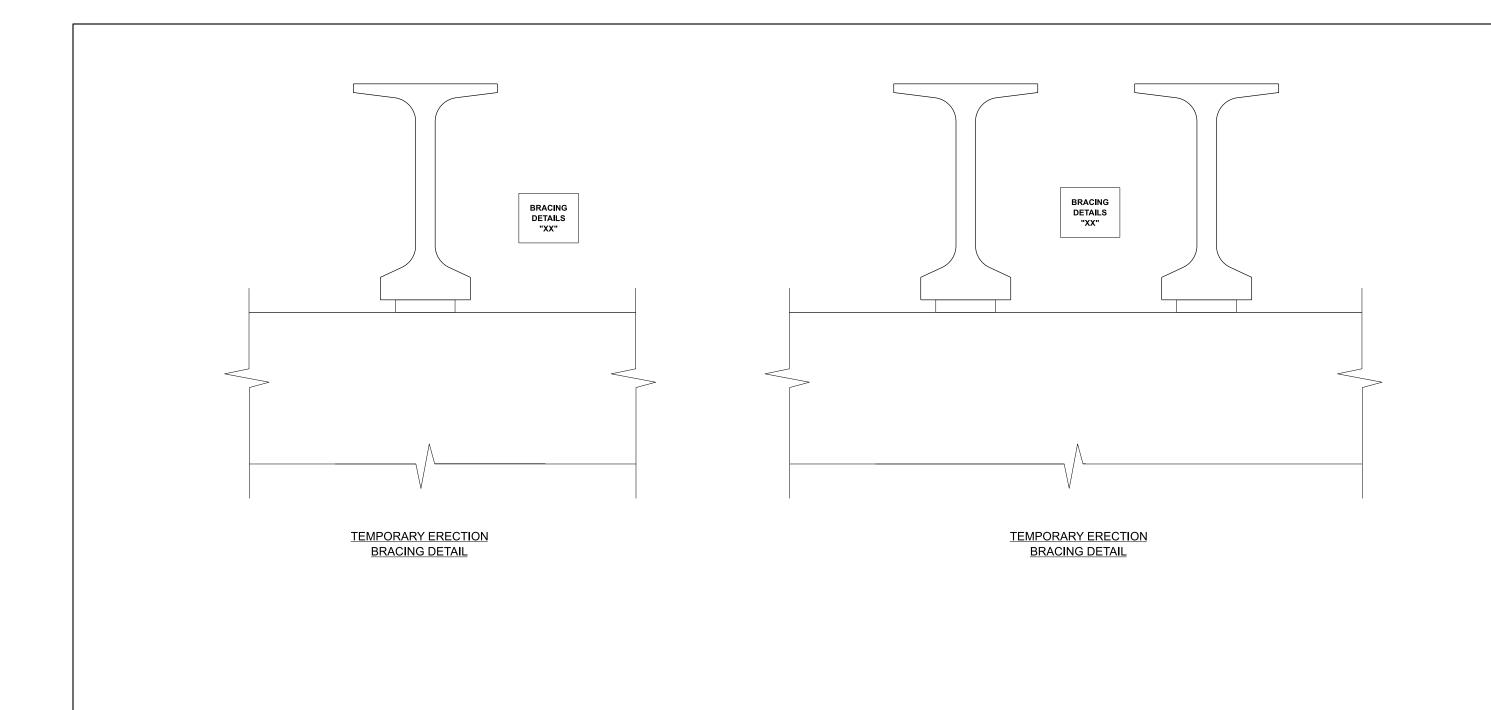
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SHEET: 2 OF 3 M-BRG-527



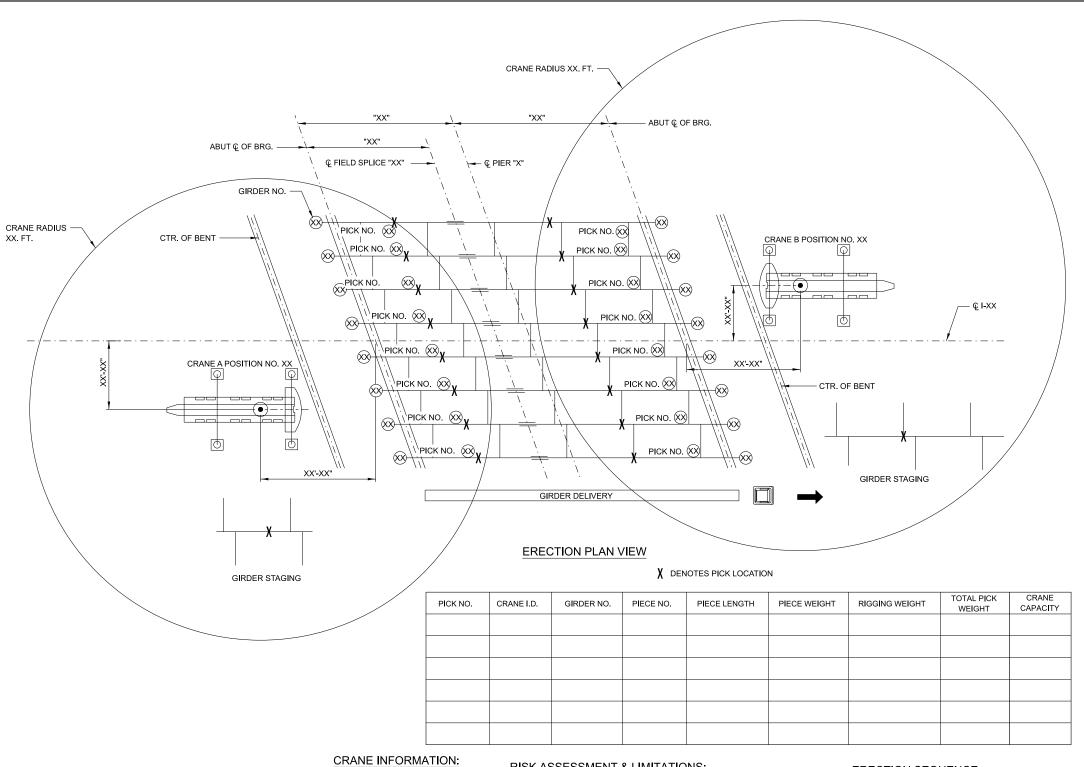




ERECTION PLAN - CONCRETE

 VERSION:
 BASE SHEET:
 SHEET:

 2021-03
 M-BRG-527
 3 of 3



### SCOPE OF WORK

- 1. LOCATION OF WORK ACTIVITIES.
- LOAD TO BE LIFTED DESCRIPTION DETAIL (LIFTING POINTS, DIMENSIONS OF LOAD, CENTER OF GRAVITY, ETC.)
- 3. LOAD CALCULATION: LOAD WEIGHT, LIFTING GEAR WEIGHT, HOOK BLOCK WEIGHT, TOTAL WEIGHT, SAFETY FACTOR, CRANE CAPACITY USAGE (LOAD/SAFE WORKING LOAD (SWL)) (%).
- 4. MAXIMUM CRANE LOAD TO BE USED FOR CRANE PAD SIZE.
- LIST GROUND ALLOWABLE BEARING PRESSURE AT CRANE LOADING LOCATIONS.
- 6. SCHEDULE WITH SPECIFIC WORKING HOUR LIMITATIONS.
- 7. LIST OF OPERATOR/LIFT SUPERVISOR QUALIFICATION.

### CRANE "A"-XXX TON HYDRO (OR EQUIVALENT)

(OR EQUIVALENT)
COUNTERWEIGHT XXX,XXX LBS.
MAIN BOOM = XXX'
ANTICIPATED MAX WEIGHT XX,XXX LBS.
CAPACITY AT RADIUS= XX,XXX LBS.
MAX RADIUS=XX'-X"
SWING SPEED= XX MPH

### CRANE "B"-XXX TON HYDRO

(OR EQUIVALENT)
COUNTERWEIGHT XXX,XXX LBS.
MAIN BOOM = XXX'
ANTICIPATED MAX WEIGHT XX,XXX LBS.
CAPACITY AT RADIUS= XX,XXX LBS.
MAX RADIUS=XX'-X"
SWING SPEED=XX MPH.

### RISK ASSESSMENT & LIMITATIONS:

- ACCESS AND EGRESS FOR THE ASSEMBLY AND DISASSEMBLY OF THE CRANE AND THE MATERIALS TO BE LIFTED WILL BE \_\_\_\_\_\_.
- FEDERAL AVIATION ADMINISTRATION (FAA) RESTRICTIONS \_\_\_\_\_\_.
   CRANE REACTIONS SITE GROUND IS SUITABLE / NON SUITABLE
- FOR CRANE OPERATION. PAD SIZE \_\_\_\_.
  4. CRANE'S SUPERSTRUCTURE ROTATES 360° WITHOUT COMING INTO
- CONTACT WITH ANY OBJECT.

  5. BOOM DEFLECTION TO BE CONSIDERED ARE
- 6. ENVIRONMENTAL CONSIDERATIONS (MAXIMUM PERMISSIBLE WIND \_\_\_\_\_, WEATHER \_\_\_\_, LIGHTNING \_\_\_\_\_) IN WHICH LIFT OPERATIONS ARE TO BE STOPPED.
- 7. ELECTRICAL HAZARD (OVERHEAD/UNDERGROUND). CLEARANCE DISTANCES \_\_\_\_. SPOTTER IS REQUIRED/NOT REQUIRED. PUBLIC UTILITY CONTACT REQUIRED (LIST CONTACT INFORMATION).

### **ERECTION SEQUENCE:**

1. "XX"

2. "XX"

3. "XX"

4. "XX"

### NOTE TO DESIGNE

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

### NOTE TO DESIGNER

IDENTIFY TEMPORARY SHORING, TEMPORARY CROSS FRAMES DURING ERECTION.

"XX" DESIGNATES DIMENSION VALUES OR INPUT DATA TO BE PROVIDED ON SUBMITTED DRAWING.

SEQUENCE SHALL ADDRESS TEMPORARY BLOCKING, BRACING OR OTHER TEMPORARY BRACING SUPPORTS

SEQUENCE OF LOAD PLACEMENT SHALL CONFIRM STRUCTURE CAN WITHSTAND THE NEW LOADS WITHOUT DAMAGE.

TABLE HEADING AND INFORMATION ARE SUGGESTED AND FOR USE AS A GUIDE FOR PREPARATION OF SUBMITTAL.

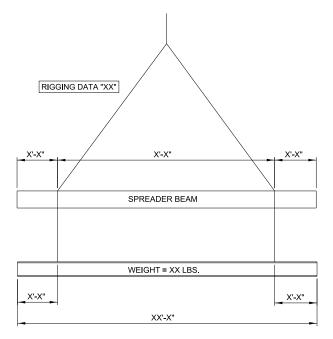


**ERECTION PLAN - STEEL** 

VERSION: BASE 2021-03 M-BF

M-BRG-528

SHEET: 1 OF 3

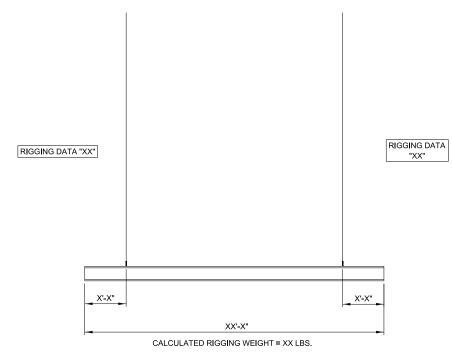


CALCULATED RIGGING WEIGHT = XX LBS.

### **ELEVATION VIEW**

### RIGGING DETAILS

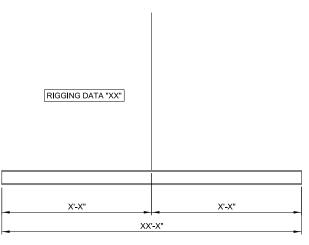
SINGLE CRANE WITH SPREADER BEAM



**ELEVATION VIEW** 

### **RIGGING DETAILS**

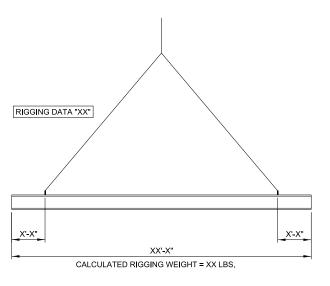
TWO CRANE



CALCULATED RIGGING WEIGHT = XX LBS.

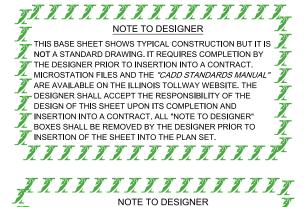
**ELEVATION VIEW** 

**RIGGING DETAILS** SINGLE CRANE



**ELEVATION VIEW** 

**RIGGING DETAILS** SINGLE CRANE



SPECIFY CENTER OF GRAVITY OF LOAD. 

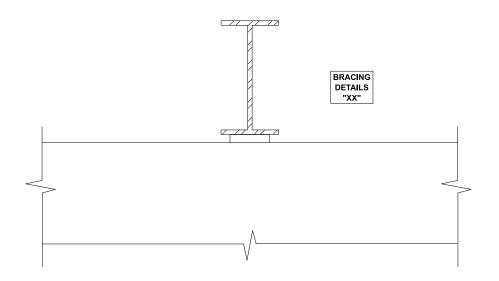
"XX" DESIGNATES DIMENSION VALUES OR INPUT DATA TO BE

PROVIDED ON SUBMITTED DRAWING.

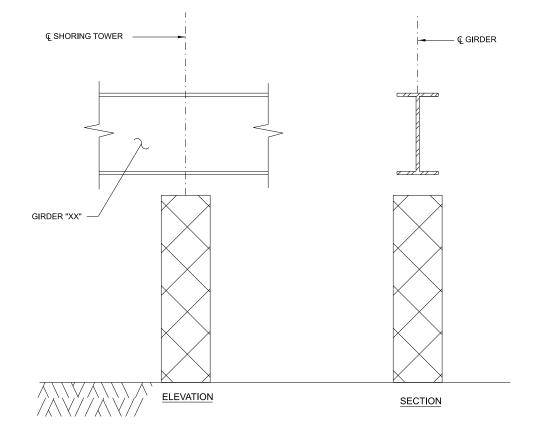


**ERECTION PLAN - STEEL** 

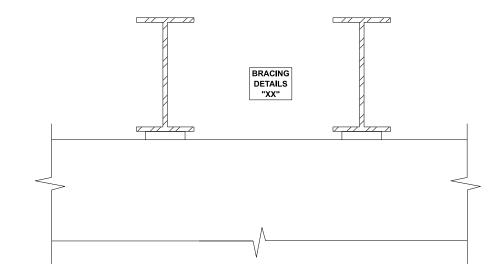
2021-03 M-BRG-528



### TEMPORARY ERECTION BRACING DETAIL



TEMPORARY SHORING DETAILS



TEMPORARY ERECTION BRACING DETAIL



THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS
NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY
THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"
ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE
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### NOTE TO DESIGNER

"XX" DESIGNATES DIMENSION VALUES OR INPUT DATA TO BE PROVIDED ON SUBMITTED DRAWING.

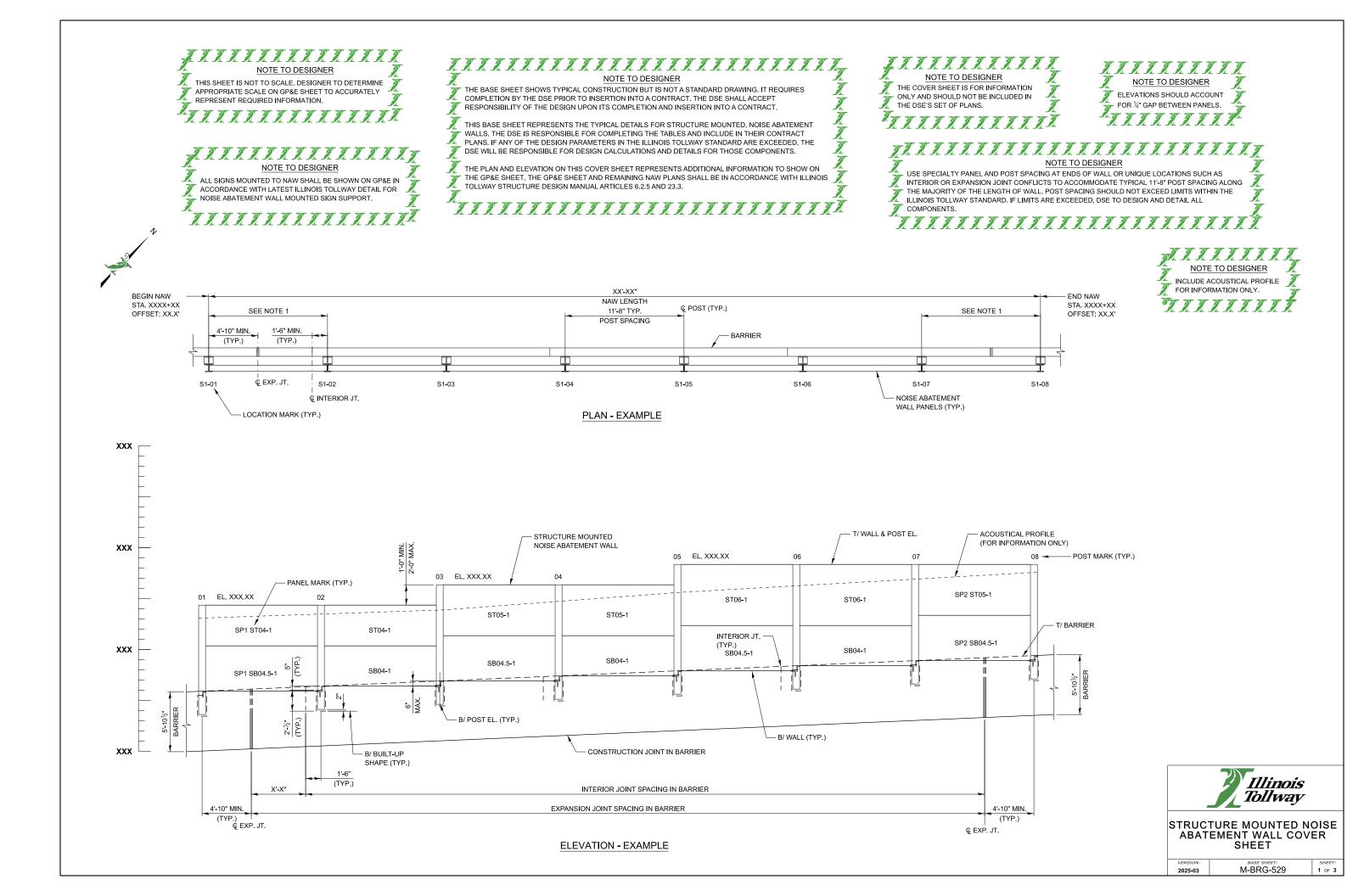
PROPOSED TEMPORARY SHORING AND DETAILS SHALL BE SHOWN.



**ERECTION PLAN - STEEL** 

3 OF 3

VERSION: BASE SHEET:
2021-03 M-BRG-528



| STRUCTUR      | E MOUN | ITED PA | NEL SCHED   | JLE       |
|---------------|--------|---------|-------------|-----------|
|               | PANEL  | PANEL   | TOTAL PANEL | NUMBER OF |
| PANEL MARK    | HEIGHT | WIDTH   | THICKNESS   | PANELS    |
| *SB04-1       | 4'-0"  | 11'-6"  | 5½"         | Х         |
| *SB04.5-1     | 4'-6"  | 11'-6"  | 5½"         | X         |
| SC04-1        | 4'-0"  | 11'-6"  | 5½"         | X         |
| ST04-1        | 4'-0"  | 11'-6"  | 5½"         | X         |
| ST05-1        | 5'-0"  | 11'-6"  | 5½"         | X         |
| ST06-1        | 6'-0"  | 11'-6"  | 5½"         | X         |
| ST07-1        | 7'-0"  | 11'-6"  | 5½"         | X         |
| ST08-1        | 8'-0"  | 11'-6"  | 5½"         | X         |
|               |        |         |             |           |
| STF04-1       | 4'-0"  | 11'-6"  | 5½"         | Х         |
| STF04.5-1     | 4'-6"  | 11'-6"  | 5½"         | X         |
| STF05-1       | 5'-0"  | 11'-6"  | 5½"         | X         |
| STF05.5-1     | 5'-6"  | 11'-6"  | 5½"         | X         |
| STF06-1       | 6'-0"  | 11'-6"  | 5½"         | X         |
| STF06.5-1     | 6'-6"  | 11'-6"  | 5½"         | X         |
| STF07-1       | 7'-0"  | 11'-6"  | 5½"         | X         |
| STF07.5-1     | 7'-6"  | 11'-6"  | 5½"         | X         |
| STF08-1       | 8'-0"  | 11'-6"  | 5½"         | X         |
|               |        |         |             |           |
| *SPX SB04-1   | 4'-0"  | XX'-X"  | 5½"         | X         |
| *SPX SB04.5-1 | 4'-6"  | XX'-X"  | 5½"         | X         |
| SPX SC04-1    | 4'-0"  | XX'-X"  | 5½"         | X         |
| SPX ST04-1    | 4'-0"  | XX'-X"  | 5½"         | X         |
| SPX ST05-1    | 5'-0"  | XX'-X"  | 5½"         | Х         |
| SPX ST06-1    | 6'-0"  | XX'-X"  | 5½"         | Х         |
| SPX ST07-1    | 7'-0"  | XX'-X"  | 5½"         | Х         |
| SPX ST08-1    | 8'-0"  | XX'-X"  | 5½"         | Х         |
|               |        |         |             |           |
|               |        |         |             |           |
| SPX STF04-1   | 4'-0"  | XX'-X"  | 5½"         | X         |
| SPX STF04.5-1 | 4'-6"  | XX'-X"  | 5½"         | X         |
| SPX STF05-1   | 5'-0"  | XX'-X"  | 5½"         | Х         |
| SPX STF05.5-1 | 5'-6"  | XX'-X"  | 5½"         | Х         |
| SPX STF06-1   | 6'-0"  | XX'-X"  | 5½"         | Х         |
| SPX STF06.5-1 | 6'-6"  | XX'-X"  | 5½"         | Х         |
| SPX STF07-1   | 7'-0"  | XX'-X"  | 5½"         | X         |
| SPX STF07.5-1 | 7'-6"  | XX'-X"  | 5½"         | Х         |
| SPX STF08-1   | 8'-0"  | XX'-X"  | 5½"         | Х         |
|               |        |         | 1           |           |

- \_\_\_\_ WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G12.
  - \*CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED. PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G12 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

### **DESIGN SPECIFICATIONS**

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL XXXXXXXX

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, XXXXXXXX

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, XTH EDITION DATED XXXXXXXX

### CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION LATEST GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLL WAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED XXXXXXXXX

### **GENERAL NOTES**

- CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES, SCALES SHOWN ARE FOR INFORMATION ONLY.
- NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER
- THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLL WAY
- NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION CONTACT JULIE 800-892-0123
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIEY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
- WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

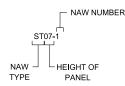
### NAW TYPE

STF = STRUCTURE MOUNTED FULL HEIGHT PANEL

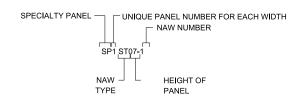
ST = STRUCTURE MOUNTED TOP PANEL

SC = STRUCTURE MOUNTED CENTER PANEL

SB = STRUCTURE MOUNTED BOTTOM PANEL SP = SPECIALTY PANEL



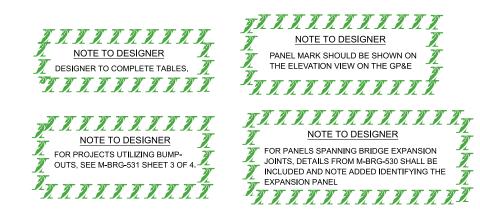
### TYPICAL PANEL NAMING CONVENTION



### SPECIALTY PANEL NAMING CONVENTION







LIST OF ABBREVIATIONS AMERICAN ASSOCIATION OF STATE AASHTO HIGHWAY AND TRANSPORTATION OFFICIALS ABUT. ABUTMENT **BACK** BK. BACK FACE B.F. BASELINE BRG. BEARING BOTT. воттом **BOTTOM OF** вм BRIDGE MOUNTED CENTERLINE CLR CLEARANCE COL. COLUMN CONCRETE CONC. CRASHWORTHY GROUND MOUNTED CGM EACH END E.E. FAST F FASTROUND FB ELEV. ELEVATION EQ. **EQUAL** EXIST. EXISTING EXPANSION EXP. FRONT FACE FF JT. JOINT LOC. LOCATION MAX. MAXIMUM MIN. MINIMUM NOISE ABATEMENT WALL NAW N. NORTH NOT APPLICABLE N.A. O.C. ON CENTER PLATE PVC POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION PVI PVT POINT OF VERTICAL TANGENCY PROP PROPOSED SHLDR. SHOULDER SOUTH

SPECIAL PROVISION

STRUCTURE MOUNTED

UNLESS NOTED OTHERWISE

SQUARE FOOT

SQUARE YARD

STATION

TOP OF

TYPICAL

WESTROUND

WIDE FLANGE

STRUCTURAL

S.P.

SQ. FT.

SQ. YD.

STA. STRUCT

S.M.

TYP.

U.N.O.

WB

*Tollway* 

STRUCTURE MOUNTED NOISE ABATEMENT WALL SCHEDULE

2025-03

M-BRG-529

|                |              |         |        |                      |                    |                    | T SCHEDULE           |             |                             |                      |          |
|----------------|--------------|---------|--------|----------------------|--------------------|--------------------|----------------------|-------------|-----------------------------|----------------------|----------|
| LOC<br>MARK    | POST<br>MARK | STATION | OFFSET | T/WALL &<br>POST EL. | BOTTOM<br>POST EL. | BOTTOM<br>WALL EL. | WF POST SIZE         | POST LENGTH | MISC. STEEL<br>WT. (POUNDS) | POST WT.<br>(POUNDS) | TOTAL WI |
| S1-01          | 01           |         |        | POSTEL.              | POSTEL.            | WALL EL.           |                      |             | WT. (POUNDS)                | (POUNDS)             | (POUNDS  |
| S1 <b>-</b> 02 | 02           |         |        |                      |                    |                    |                      |             |                             |                      |          |
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|                |              |         |        |                      | 29 9               | 777                | ESIGNER NE WALL ONLY | 727         |                             |                      |          |
|                |              |         |        |                      |                    |                    |                      |             |                             |                      |          |
|                |              |         |        |                      | 201                | NOTE TO D          | ESIGNER              | <u></u>     |                             |                      |          |
|                |              |         |        |                      | COM                | PLETE FOR O        | NE WALL ONLY         | <i>)</i>    |                             |                      |          |
|                |              |         |        |                      | 1/2                |                    |                      | 7           |                             |                      |          |
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|                |              | 1       | 1      |                      | I .                | 1                  | 1                    | 1           |                             | 1                    |          |

|                 | TOTAL BILL OF MATERIAL                                   |         |       |  |  |  |  |  |  |
|-----------------|--|---------|-------|--|--|--|--|--|--|
| PAY ITEM<br>NO. | ITEM   | UNIT    | TOTAL |  |  |  |  |  |  |
| JT599920        | PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED | SQ. FT. | Х     |  |  |  |  |  |  |

### NAW TYPE

S = STRUCTURE MOUNTED

T<sub>POST NUMBER</sub>

### ─ NAW NUMBER NAW TYPE | POST LOCATION

### POST MARK CONVENTION

### LOCATION MARK CONVENTION

NOTE TO DESIGNER LOCATION AND POST MARKS SHOULD BE SHOWN ON THE GENERAL LAYOUT OF POSTS ON THE GP&E

WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G12.

### NOTE TO DESIGNER

MISC. STEEL WT. INCLUDES BUILT-UP SHAPE, BEARING ANGLES, BENT PLATES, ANCHOR BOLT ASSEMBLY, AND NOISE BLOCKING ASSEMBLY. QUANTITIES SHOWN ON STANDARD G12 ARE FOR MAXIMUM NUMBER OF BENT PLATES.
ACTUAL QUANTITY SHALL BE USED IN THE SCHEDULE.

XXXXXXXXXXX NOTE TO DESIGNER

FOR PROJECTS UTILIZING BUMP-OUTS, SEE M-BRG-531 SHEET OUTS, SI 4 OF 4. 

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE DEMONTO STATE. BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. 

### NOTE TO DESIGNER

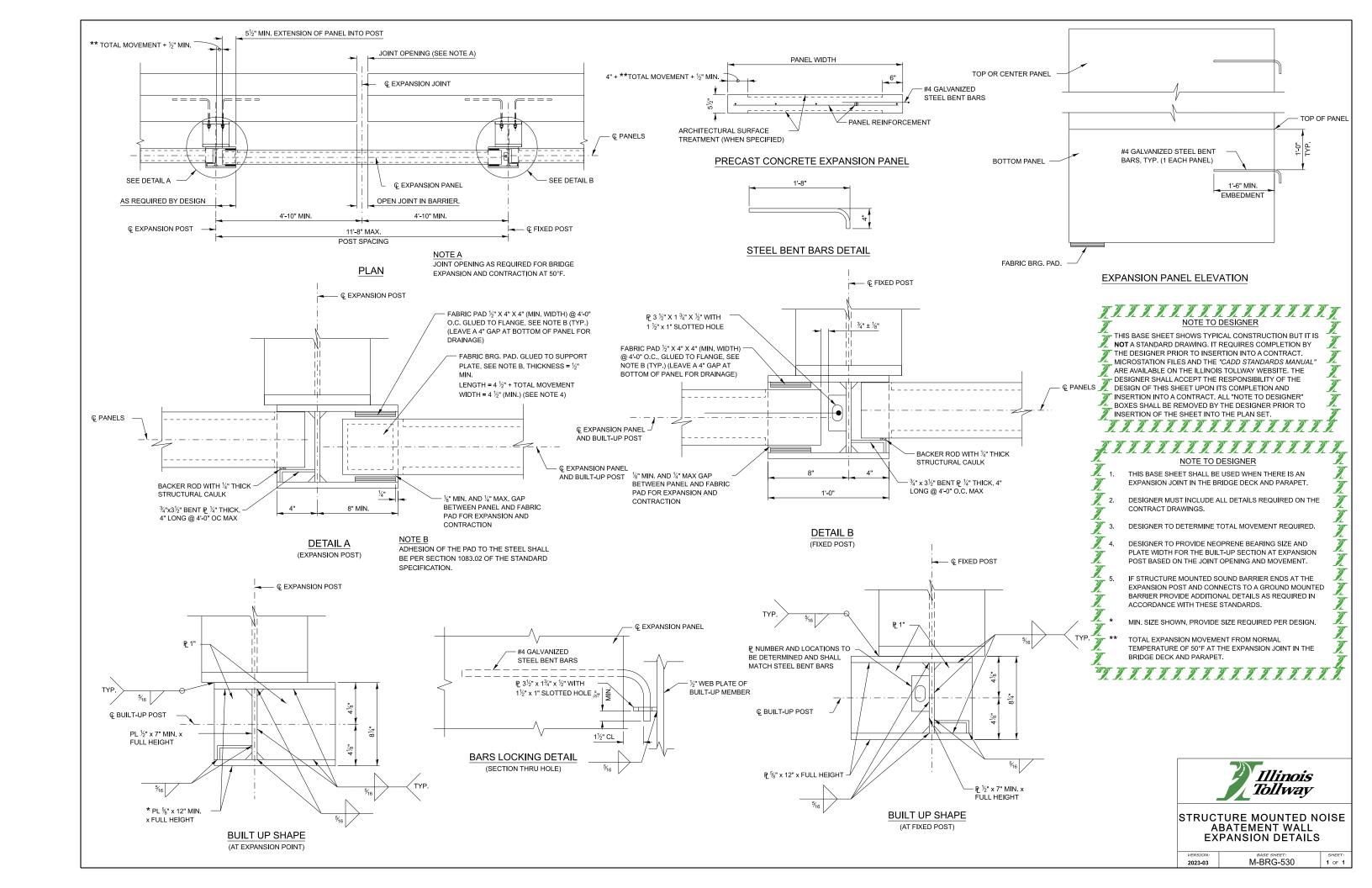
FOR POSTS ADJACENT TO BRIDGE EXPANSION JOINTS, DETAILS FROM M-BRG-530 SHALL BE INCLUDED AND NOTE ADDED IDENTIFYING THE FIXED AND EXPANSION POSTS



STRUCTURE MOUNTED NOISE ABATEMENT WALL SCHEDULE

2025-03

M-BRG-529





NOTE TO DESIGNER

THE BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IS NOT A STANDARD DRAWING, IT REQUIRES COMPLETION BY THE DSE PRIOR TO INSERTION INTO A CONTRACT. THE DSE SHALL ACCEPT RESPONSIBILITY OF THE DESIGN UPON ITS COMPLETION AND INSERTION INTO A CONTRACT.

THIS BASE SHEET REPRESENTS THE TYPICAL DETAILS FOR STRUCTURE MOUNTED, NOISE ABATEMENT WALLS. THE DSE IS RESPONSIBLE FOR COMPLETING THE TABLES AND INCLUDE IN THEIR CONTRACT PLANS. IF ANY OF THE DESIGN PARAMETERS IN THE ILLINOIS TOLLWAY STANDARD ARE EXCEEDED, THE DSE WILL BE RESPONSIBLE FOR DESIGN CALCULATIONS AND DETAILS FOR THOSE COMPONENTS.

THE PLAN AND ELEVATION ON THIS COVER SHEET REPRESENTS ADDITIONAL INFORMATION TO SHOW ON THE GP&E SHEET. THE GP&E SHEET AND REMAINING NAW PLANS SHALL BE IN ACCORDANCE WITH ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ARTICLES 6.2.5 AND 23.3.

NOTE TO DESIGNER

THE COVER SHEET IS FOR INFORMATION ONLY AND SHOULD NOT BE INCLUDED IN THE DSE'S SET OF PLANS.

NOTE TO DESIGNER

INCLUDE ACOUSTICAL PROFILE

FOR INFORMATION ONLY.

NOTE TO DESIGNER

ELEVATIONS SHOULD ACCOUNT FOR

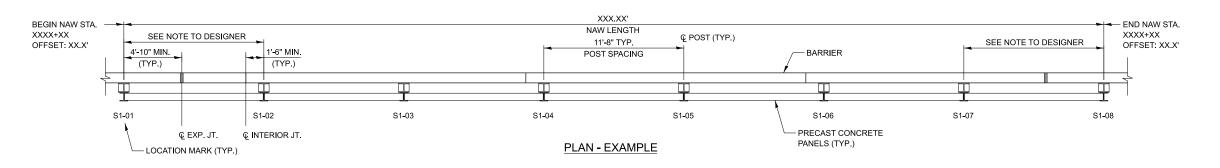
"" GAP BETWEEN PANELS.

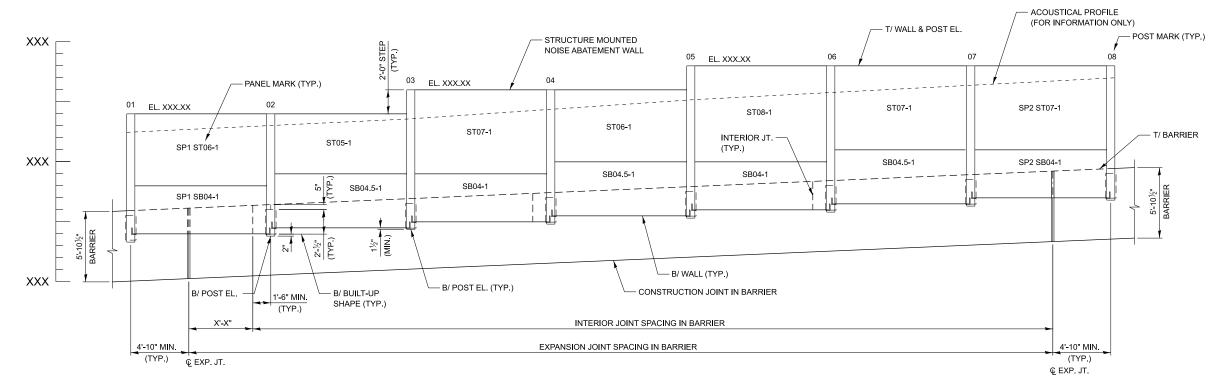
1

NOTE TO DESIGNER

USE SPECIALTY PANEL AND POST SPACING AT ENDS OF WALL
OR UNIQUE LOCATIONS SUCH AS INTERIOR OR EXPANSION
JOINT CONFLICTS TO ACCOMMODATE TYPICAL 11'-8" POST
SPACING ALONG THE MAJORITY OF THE LENGTH OF WALL.
POST SPACING SHOULD NOT EXCEED LIMITS WITHIN THE
ILLINOIS TOLLWAY STANDARD. IF LIMITS ARE EXCEEDED, DSE
TO DESIGN AND DETAIL ALL COMPONENTS. THE "SPX"

DESIGNATION FOR SPECIALTY PANELS SHOULD BE USED FOR ALL PANELS WITHIN THAT BAY WITH THE SAME WIDTH.





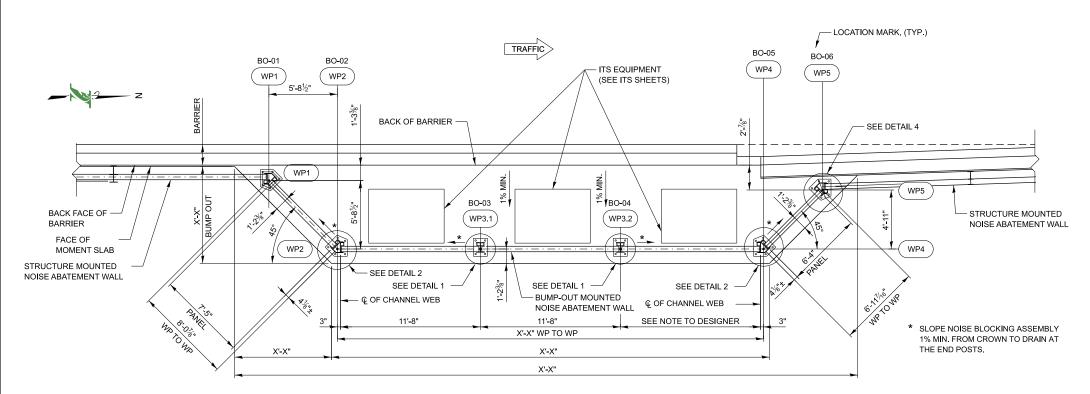


STRUCTURE MOUNTED NOISE ABATEMENT WALL COVER SHEET

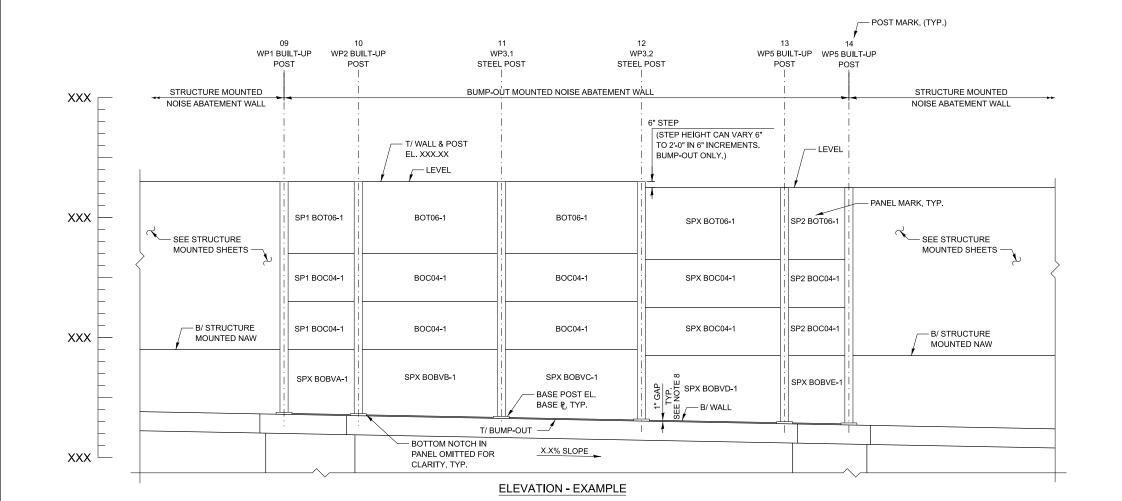
1 OF 4

VERSION: BASE SHEET:
2025-03 M-BRG-531

**ELEVATION - EXAMPLE** 



### PLAN - EXAMPLE



NOTE TO DESIGNER THE COVER SHEET IS FOR INFORMATION ONLY AND SHOULD NOT BE INCLUDED IN THE DSE'S SET OF PLANS. TRARRARARARA BUMP-OUT MOUNTED NAW DETAILS MAY BE USED WITH SYSTEM WIDE STRUCTURE MOUNTED NAW DETAILS SHOWN IN STANDARD G12 AND M-BRG-529. DSE TO UPDATE ACCORDINGLY FOR SYSTEM WIDE GEOMETRY. NOTE TO DESIGNER THIS SHEET IS NOT TO SCALE. DESIGNER TO DETERMINE APPROPRIATE SCALE ON GP&E SHEET TO ACCURATELY REPRESENT REQUIRED INFORMATION. LEERENE EE EE EE EE EE EE EE EE USE SPECIALTY PANEL AND POST SPACING AT END OF WALL TO

ACCOMMODATE TYPICAL 11'-8" POST SPACING ALONG THE STRAIGHT LENGTH OF WALL. POST SPACING SHOULD NOT EXCEED LIMITS WITHIN THE ILLINOIS TOLLWAY STANDARD. IF LIMITS ARE EXCEEDED, DSE TO DESIGN AND DETAIL ALL COMPONENTS. THE "SPX" DESIGNATION FOR SPECIALTY PANELS SHOULD BE USED FOR ALL PANELS WITHIN BAY WITH THE SAME WIDTH

THE BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DSE PRIOR TO INSERTION INTO A CONTRACT. THE DSE SHALL ACCEPT RESPONSIBILITY OF THE DESIGN UPON ITS COMPLETION AND INSERTION INTO A CONTRACT.

THIS BASE SHEET REPRESENTS THE TYPICAL DETAILS FOR BUMP-OUT MOUNTED, NOISE ABATEMENT WALLS. THE DSE IS RESPONSIBLE FOR COMPLETING THE TABLES AND INCLUDING THEM IN THEIR CONTRACT PLANS. IF ANY OF THE DESIGN PARAMETERS IN THE ILLINOIS TOLLWAY STANDARD ARE EXCEEDED, THE DSE WILL BE RESPONSIBLE FOR DESIGN CALCULATIONS AND DETAILS FOR THOSE COMPONENTS.

THE PLAN AND ELEVATION ON THIS COVER SHEET REPRESENTS ADDITIONAL INFORMATION TO SHOW ON THE GP&E SHEET. THE GP&E SHEET AND REMAINING NAW PLANS SHALL BE IN ACCORDANCE WITH ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ARTICLES 6.2.5 AND 23.3.

SEE STANDARD G14 FOR DETAIL 1 AND DETAIL 2.

TRARESTER TRACTICATION TO THE TRACTICATION TO



**BUMP-OUT MOUNTED NOISE** ABATEMENT WALL COVER SHEET

2025-03

M-BRG-531

| DANEL MARK     | PANEL          | PANEL            | TOTAL PANEL | NUMBER OF |
|----------------|----------------|------------------|-------------|-----------|
| PANEL MARK     | HEIGHT         | WIDTH            | THICKNESS   | PANELS    |
| **SB04-1       | 4'-0"          | 11'-6"           | 5½ "        | X         |
| **SB04.5-1     | 4'-6"          | 11'-6"           | 5½ "        | X         |
| SC04-1         | 4'-0"          | 11'-6"           | 5½"         | X         |
| ST04-1         | 4'-0"          | 11'-6"           | 5½"         | X         |
| ST05-1         | 5'-0"          | 11'-6"           | 5½"         | X         |
| ST06-1         | 6'-0"          | 11'-6"           | 5½"         | X         |
| ST07-1         | 7'-0"          | 11'-6"           | 5½"         | X         |
| ST08-1         | 8'-0"          | 11'-6"           | 5½ "        | Х         |
| STF04-1        | 4'-0"          | 11'-6"           | 5½ "        | V         |
|                |                |                  | 5½"         | X         |
| STF04.5-1      | 4'-6"          | 11'-6"           | 5½"         | X         |
| STF05-1        | 5'-0"<br>5'-6" | 11'-6"<br>11'-6" | 5½"         | X         |
| STF05.5-1      |                |                  | 5½"         |           |
| STF06-1        | 6'-0"          | 11'-6"           | 5½"<br>5½"  | X         |
| STF06.5-1      | 6'-6"          | 11'-6"           | 5½"         | X         |
| STF07-1        | 7'-0"          | 11'-6"           | 5½"<br>5½"  | X         |
| STF07.5-1      | 7'-6"          | 11'-6"           |             | X         |
| STF08-1        | 8'-0"          | 11'-6"           | 5½"         | X         |
| **SPX SB04-1   | 4'-0"          | X'-X"            | 5½ "        | ×         |
| **SPX SB04.5-1 | 4'-6"          | X'-X"            | 5½"         | Х         |
| SPX SC04-1     | 4'-0"          | X'-X"            | 5½"         | Х         |
| SPX ST04-1     | 4'-0"          | X'-X"            | 5½"         | Х         |
| SPX ST05-1     | 5'-0"          | X'-X"            | 5½ "        | Х         |
| SPX ST06-1     | 6'-0"          | X'-X"            | 5½ "        | Х         |
| SPX ST07-1     | 7'-0"          | X'-X"            | 5½ "        | Х         |
| SPX ST08-1     | 8'-0"          | X'-X"            | 5½ "        | Х         |
|                |                |                  |             |           |
| SPX STF04-1    | 4'-0"          | X'-X"            | 5½ "        | Х         |
| SPX STF04.5-1  | 4'-6"          | X'-X"            | 5½ "        | X         |
| SPX STF05-1    | 5'-0"          | X'-X"            | 5½ "        | X         |
| SPX STF05.5-1  | 5'-6"          | X'-X"            | 5½ "        | X         |
| SPX STF06-1    | 6'-0"          | X'-X"            | 5½ "        | X         |
| SPX STF06.5-1  | 6'-6"          | X'-X"            | 5½ "        | Х         |
| SPX STF07-1    | 7'-0"          | X'-X"            | 5½"         | X         |
| SPX STF07.5-1  | 7'-6"          | X'-X"            | 5½"         | X         |
| SPX STF08-1    | 8'-0"          | X'-X"            | 5½ "        | X         |

### NOTE:

- 1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G12, G13 OR G14.
- \*\*\* CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G13 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

### **DESIGN SPECIFICATIONS**

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, XXXXXXXX

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, XXXXXXXX

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, XTH EDITION DATED XXXXXXXX



### CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION LATEST GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED XXXXXXXX

### **BUMP-OUT STRUCTURE MOUNTED PANEL SCHEDULE**

| PANEL MARK    | PANEL  | PANEL              | TOTAL PANEL | NUMBER OF |
|---------------|--------|--------------------|-------------|-----------|
| FANEL WARK    | HEIGHT | WIDTH              | THICKNESS   | PANELS    |
| **BOC04-1     | 4'-0"  | 11'-6"             | 5½"         | X         |
| **BOC04.5-1   | 4'-6"  | 11'-6"             | 5½"         | X         |
| BOT04-1       | 4'-0"  | 11'-6"             | 5½"         | X         |
| BOT05-1       | 5'-0"  | 11'-6"             | 5½"         | X         |
| BOT06-1       | 6'-0"  | 11'-6"             | 5½"         | X         |
| BOT07-1       | 7'-0"  | 11'-6"             | 5½"         | X         |
| BOT08-1       | 8'-0"  | 11'-6"             | 5½"         | X         |
|               |        |                    |             |           |
| SP1 BOC04-1   | 4'-0"  | 7'-5"              | 5½"         | X         |
| SP1 BOC04.5-1 | 4'-6"  | 7'-5"              | 5½"         | X         |
| SP1 BOT04-1   | 4'-0"  | 7'-5"              | 5½"         | X         |
| SP1 BOT05-1   | 5'-0"  | 7'-5"              | 5½"         | X         |
| SP1 BOT06-1   | 6'-0"  | 7'-5"              | 5½"         | X         |
| SP1 BOT07-1   | 7'-0"  | 7'-5"              | 5½"         | X         |
| SP1 BOT08-1   | 8'-0"  | 7'-5"              | 5½"         | X         |
|               |        |                    |             |           |
| SP2 BOC04-1   | 4'-0"  | 6'-4"              | 5½"         | X         |
| SP2 BOC04.5-1 | 4'-6"  | 6'-4"              | 5½"         | X         |
| SP2 BOT04-1   | 4'-0"  | 6' <del>-4</del> " | 5½"         | X         |
| SP2 BOT05-1   | 5'-0"  | 6' <del>-4</del> " | 5½"         | X         |
| SP2 BOT06-1   | 6'-0"  | 6'-4"              | 5½"         | X         |
| SP2 BOT07-1   | 7'-0"  | 6'-4"              | 5½"         | X         |
| SP2 BOT08-1   | 8'-0"  | 6'-4"              | 5½"         | X         |
|               |        |                    |             |           |
| SPX BOC04-1   | 4'-0"  | X'-X"              | 5½"         | X         |
| SPX BOC04.5-1 | 4'-6"  | X'-X"              | 5½"         | X         |
| SPX BOT04-1   | 4'-0"  | X'-X"              | 5½"         | X         |
| SPX BOT05-1   | 5'-0"  | X'-X"              | 5½"         | X         |
| SPX BOT06-1   | 6'-0"  | X'-X"              | 5½"         | X         |
| SPX BOT07-1   | 7'-0"  | X'-X"              | 5½"         | Х         |
| SPX BOT08-1   | 8'-0"  | X'-X"              | 5½"         | Х         |

### NOTE:

- WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD
- TO ACCOMMODATE VARYING SLAB GRADES, PANEL HEIGHTS WILL VARY TO FOLLOW SLOPE ON BUMP-OUT SLAB AND MAINTAIN A 1" GAP BETWEEN BOTTOM OF PANEL AND TOP OF SLAB.
- \*\* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 8FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G14 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

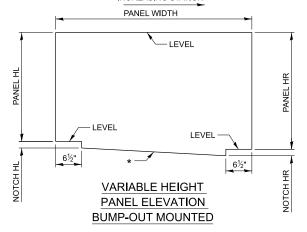
### **GENERAL NOTES**

- I. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY
- 2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER
- 3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY
- 4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
- WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.
- 8. PROVIDE NOISE BLOCKING ASSEMBLY ALONG THE INSIDE PERIMETER OF THE WALL TO PREVENT SOUND THROUGH THE 1" GAP. SLOPE THE NOISE BLOCKING ASSEMBLY TO DRAIN AND STOP 3" SHORT OF THE END POSTS TO ALLOW WATER TO DRAIN.

### BUMP-OUT STRUCTURE MOUNTED VARIABLE HEIGHT PANEL SCHEDULE

| PANEL MARK   | PANEL | NOTCH | PANEL | NOTCH | PANEL | TOTAL PANEL | NUMBER OF |
|--------------|-------|-------|-------|-------|-------|-------------|-----------|
| PANEL WARK   | HL    | HL    | HR    | HR    | WIDTH | THICKNESS   | PANELS    |
| SPX BOBVA-1  | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOBVB-1  | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOBVC-1  | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOBVD-1  | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOBVE-1  | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
|              |       |       |       |       |       |             |           |
| SPX BOTFVA-1 | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOTFVB-1 | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOTFVC-1 | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOTFVD-1 | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |
| SPX BOTFVE-1 | X'-X" | X"    | X'-X" | X"    | X'-X" | 5½"         | X         |

### INCREASING STATION



### NAW TYPE

STF = STRUCTURE MOUNTED FULL HEIGHT PANEL

ST = STRUCTURE MOUNTED TOP PANEL

SC = STRUCTURE MOUNTED CENTER PANEL
SB = STRUCTURE MOUNTED BOTTOM PANEL

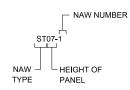
BOTFV = BUMP-OUT STRUCTURE MOUNTED FULL HEIGHT PANEL (VARIABLE HEIGHT)

BOT = BUMP-OUT STRUCTURE MOUNTED TOP PANEL

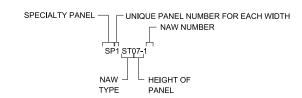
BOC = BUMP-OUT STRUCTURE MOUNTED CENTER PANEL

BOBV = BUMP-OUT STRUCTURE MOUNTED BOTTOM PANEL (VARIABLE HEIGHT)

SP = SPECIALTY PANEL



### TYPICAL PANEL NAMING CONVENTION



### SPECIALTY PANEL NAMING CONVENTION



NOTE TO DESIGNER

FOR PANELS SPANNING BRIDGE
EXPANSION JOINTS, DETAILS FROM
M-BRG-530 SHALL BE INCLUDED AND
NOTE ADDED IDENTIFYING THE
EXPANSION PANEL

### NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"
ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

### LIST OF ABBREVIATIONS

| AASHTO       | AMERICAN ASSOCIATION OF STATE  |
|--------------|--------------------------------|
|              | HIGHWAY AND TRANSPORTATION     |
|              | OFFICIALS                      |
| ABUT.        | ABUTMENT                       |
| BK.          | BACK                           |
| B.F.         | BACK FACE                      |
| ₽ <u> </u>   | BASELINE                       |
| BRG.         | BEARING                        |
| BOTT.        | воттом                         |
| B/           | BOTTOM OF                      |
| BM           | BRIDGE MOUNTED                 |
| Q.           | CENTERLINE                     |
| CLR.         | CLEARANCE                      |
| COL.         | COLUMN                         |
| CONC.        | CONCRETE                       |
| CGM          | CRASHWORTHY GROUND MOUNTE      |
| E.E.         | EACH END                       |
| E.           | EAST                           |
| EB           | EASTBOUND                      |
| ELEV.        | ELEVATION                      |
| EQ.          | EQUAL                          |
| EXIST.       | EXISTING                       |
| EXP.         | EXPANSION                      |
| F.F.         | FRONT FACE                     |
| JT.          | JOINT                          |
| LOC.         | LOCATION                       |
| MAX.         | MAXIMUM                        |
| MIN.         | MINIMUM                        |
| NAW          | NOISE ABATEMENT WALL           |
| Ν.           | NORTH                          |
| N.A.         | NOT APPLICABLE                 |
| O.C.         | ON CENTER                      |
| P.           | PLATE                          |
| PVC          | POINT OF VERTICAL CURVE        |
| PVI          | POINT OF VERTICAL INTERSECTION |
| PVT          | POINT OF VERTICAL TANGENCY     |
| PROP.        | PROPOSED                       |
| SHLDR.       | SHOULDER                       |
| S.           | SOUTH                          |
| S.P.         | SPECIAL PROVISION              |
| SQ. FT.      | SQUARE FOOT                    |
| SQ. YD.      | SQUARE YARD                    |
| STA.         | STATION                        |
| STRUCT.      | STRUCTURAL                     |
| S.M.         | STRUCTURE MOUNTED              |
| 3.IVI.<br>T/ | TOP OF                         |
| TYP.         | TYPICAL                        |
|              | UNLESS NOTED OTHERWISE         |
| U.N.O.       |                                |
| WB           | WESTBOUND                      |
| WF           | WIDE FLANGE                    |





STRUCTURE MOUNTED NOISE ABATEMENT WALL SCHEDULE

BASE SHEET:
025-03 M-BRG-531

G-531 SHEET: 3 OF 4

|                  |              |                  |         |         |        |                    | ST SCHEE        | ULE     |                             |                      |         |
|------------------|--------------|------------------|---------|---------|--------|--------------------|-----------------|---------|-----------------------------|----------------------|---------|
| LOC<br>MARK      | POST<br>MARK | STATION          | OFFSET  |         |        | BOTTOM<br>WALL EL. | WF POST<br>SIZE | POST    | MISC. STEEL<br>WT. (POUNDS) | POST WT.<br>(POUNDS) | TOTAL W |
| S1-01            | 01           | XXX+XX.XX        | XX.XX   | XXXXXX  | XXX.XX | XXX.XX             | WXxXX           | XX'-XX" | XXX.XX                      | XXX.XX               | XXX.XX  |
| S2-02            | 02           | XXX+XX.XX        | XX.XX   | XXXXXX  | XXX.XX | XXX.XX             | WXxXX           | XX'-XX" | XXX.XX                      | XXX.XX               | XXX.XX  |
| <del>32-02</del> | 02           | **********       | ^^.^^   | ******* | ^^^.^  | ******             | VVAXAA          |         | ^^^.                        | *****                | ******  |
|                  |              |                  |         |         |        |                    |                 |         |                             |                      |         |
| ,                |              |                  |         |         |        |                    |                 |         |                             |                      |         |
| BO1-01           | 01           | XXX+XX.XX        | XX.XX   | XXX.XX  | XXX.XX | VARIES             | WXxXX           | XX'-XX" | XXX.XX                      | XXX.XX               | XXX.XX  |
| BO2-02           | 02           | XXX+XX.XX        | XX.XX   | XXX.XX  | XXX.XX | VARIES             | WXxXX           | XX'-XX" | XXX.XX                      | XXX.XX               | XXX.XX  |
| BO3-03           | 03           | XXX+XX.XX        | XX.XX   | XXX.XX  | XXX.XX | VARIES             | WXxXX           | XX'-XX" | XXX.XX                      | XXX.XX               | XXX.XX  |
|                  |              |                  |         |         |        |                    |                 |         |                             |                      |         |
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|                  |              | TTTT             | 7777    |         |        | <b>y</b>           |                 |         |                             |                      |         |
|                  |              |                  |         |         |        |                    |                 |         |                             |                      |         |
|                  |              | TIII<br>COMPLETE | = FOR O | NE WALL | ONLY   |                    |                 |         |                             |                      |         |
|                  |              |                  |         |         |        | <i>Z</i>           |                 |         |                             |                      |         |
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|                  |              |                  |         |         |        |                    |                 |         |                             |                      |         |
|                  |              |                  |         |         |        |                    |                 |         |                             |                      |         |
|                  |              |                  |         |         |        |                    |                 |         |                             |                      |         |

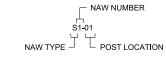
| TOTAL BILL OF MATERIAL                                   |         |           |
|--|---------|-----------|
| ITFM   | UNIT    | TOTAL     |
| ··   | J       |           |
| PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED | SQ. FT. | Х         |
|  | ITEM    | ITEM UNIT |

### NAW TYPE

S = STRUCTURE MOUNTED BO = BUMP-OUT MOUNTED







POST MARK CONVENTION

LOCATION MARK CONVENTION



NOTE TO DESIGNER

LOCATION AND POST MARKS SHOULD BE SHOWN ON THE

GENERAL LAYOUT OF POSTS ON THE GP&E TITITITITITITITITITITI

FOR POSTS ADJACENT TO BRIDGE EXPANSION JOINTS, DETAILS FROM M-BRG-530 SHALL BE INCLUDED AND NOTE DETAILS FROM M-BRG-530 SHALL BE INCLUDED AND NOT

### NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. 



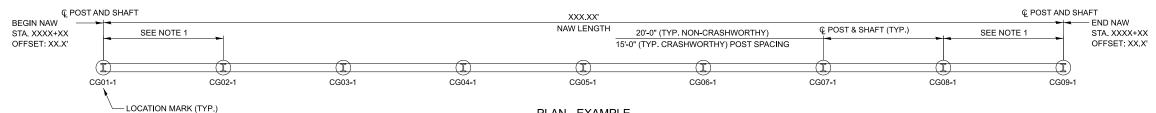
STRUCTURE MOUNTED NOISE ABATEMENT WALL SCHEDULE

4 OF 4

2025-03 M-BRG-531

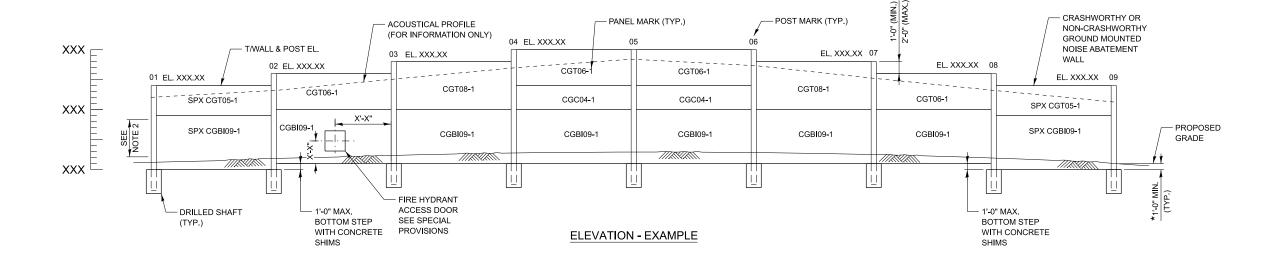
### NOTE TO DESIGNER ITHE BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DSE PRIOR TO INSERTION INTO A CONTRACT. THE DSE SHALL ACCEPT RESPONSIBILITY OF THE DESIGN UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. THIS BASE SHEET REPRESENTS THE TYPICAL DETAILS FOR STRUCTURE MOUNTED, NOISE ABATEMENT WALLS. THE DSE IS RESPONSIBLE FOR COMPLETING THE TABLES AND INCLUDE IN THEIR CONTRACT PLANS. IF ANY OF THE DESIGN PARAMETERS IN THE ILLINOIS TOLLWAY STANDARD ARE EXCEEDED, THE DSE WILL BE RESPONSIBLE FOR DESIGN CALCULATIONS AND DETAILS FOR THOSE COMPONENTS. THE PLAN AND ELEVATION ON THIS COVER SHEET REPRESENTS ADDITIONAL INFORMATION TO SHOW ON THE GP&E SHEET. THE GP&E SHEET AND REMAINING NAW PLANS SHALL BE IN ACCORDANCE WITH ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ARTICLES 6.2.5 AND 23.3.





TRARAMANA KANANA KANANA





NOTE TO DESIGNER:

1. USE SPECIALTY PANEL AND POST SPACING AT ENDS OF WALL OR UNIQUE LOCATIONS SUCH AS UTILITY CROSSINGS TO ACCOMMODATE TYPICAL 20'-0" OR 15'-0" POST SPACING FOR NON-CRASHWORTHY OR CRASHWORTHY, RESPECTIVELY ALONG THE MAJORITY OF THE LENGTH OF WALL. POST SPACING SHOULD NOT EXCEED LIMITS WITHIN THE ILLINOIS TOLLWAY STANDARD. IF LIMITS ARE EXCEEDED, DSE TO DESIGN AND DETAIL ALL COMPONENTS. THE "SPX" DESIGNATION FOR SPECIALTY PANELS SHOULD BE USED FOR ALL PANELS WITHIN THAT BAY WITH THE SAME WIDTH.

2. FOR CRASHWORTHY NAW, PANELS WITHIN 6FT ABOVE FACE OF ROADWAY PAVEMENT SHALL BE THE TL-4 IMPACT PANELS.

NOTE TO DESIGNER

NOTE TO DESIGNER

INCREASE TO ACCOMODATE THE

GUTTER WHEN NEEDED

NOTE TO DESIGNER

NOTE TO DESIGNER

SEE BASE SHEET M-BRG-532 SHEET 2 OF 3 FOR PANEL DESIGNATIONS AND M-BRG-532 SHEET 3 OF 3 FOR POST DESIGNATIONS TO BE SHOWN ON THIS SHEET

NOTE TO DESIGNER

ALL SIGNS MOUNTED TO NAW SHALL BE SHOWN ON GP&E IN ACCORDANCE WITH LATEST ILLINOIS TOLLWAY DETAIL FOR NOISE ABATEMENT WALL MOUNTED SIGN SUPPORT.

NOTE TO DESIGNER

NOTE TO DESIGNER

INCLUDE ACOUSTICAL PROFILE
FOR INFORMATION ONLY.

POR W" GAP BETWEEN PANELS.



GROUND MOUNTED NOISE ABATEMENT WALL COVER SHEET

1 OF 4

VERSION: BASE SHEET:
2025-03 M-BRG-532

### NON-CRASHWORTHY NAW

| PANEL MARK   HEIGHT   WIDTH   THICKNESS   PANELS   | GROUNE       | MOUNT | ED PAN  | EL SCHEDUL | E                |
|--|--------------|-------|---------|------------|------------------|
| GBU04-1         4'-0"         19:-10"         7"         X           **GC04-1         4'-0"         19:-10"         7"         X           GT04-1         4'-0"         19:-10"         7"         X           GT05-1         5'-0"         19:-10"         7"         X           GT06-1         6'-0"         19:-10"         7"         X           GT07-1         7'-0"         19:-10"         7"         X           GT08-1         8-0"         19:-10"         7"         X           GT608-1         8-0"         19:-10"         7"         X           GTF04-1         4'-0"         19:-10"         7"         X           GTF05-1         5'-0"         19:-10"         7"         X           GTF06-1         6'-0"         19:-10"         7"         X           GTF08-1         8-0"         19:-10"         7"         X           GTFU04-1         4'-0"         19:-10"         9"         X           GTFU04-1         4'-0"         19:-10"         9"         X           GTFU05-1         5'-0"         19:-10"         9"         X           GTFU05-1         5'-0"         19:-10"  | PANEL MARK   |       |         |            | NUMBER OF PANELS |
| **GC04-1 4'-0" 19'-10" 7" X GT04-1 4'-0" 19'-10" 7" X GT05-1 5'-0" 19'-10" 7" X GT06-1 6'-0" 19'-10" 7" X GT06-1 7'-0" 19'-10" 7" X GT08-1 8-0" 19'-10" 7" X GTF04-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF06-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU04-1 4'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 10'-10" 9" X SPX GB04-1 10'-10" 9" X SPX GB04-1 10'-10" 9" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GTF05-1 5'-0" 19'-10" 7" X SPX GTF005-1 5'-0" 19'-10" 9" X SPX GTF005-1 5'-0" 19'-10" 9" X SPX GTF005-1 5'-0" 19'-10" 9" X  | GB04-1       | 4'-0" | 19'-10" | 7"         | Х                |
| GT04-1 4'-0" 19'-10" 7" X GT05-1 5'-0" 19'-10" 7" X GT06-1 6'-0" 19'-10" 7" X GT06-1 7'-0" 19'-10" 7" X GT07-1 7'-0" 19'-10" 7" X GT08-1 8-0" 19'-10" 7" X GT694-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU06-1 6'-0" 19'-10" 9" X GTFU07-1 7'-0" 19'-10" 9" X GTFU07-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X SPX GBU04-1 4'-0" 19'-10" 9" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GTF06-1 6'-0" 19'-10" 7" X SPX GTF00-1 5'-0" 19'-10" 9" X SPX GTF00-1 5'-0" 19'-10" 9" X | GBU04-1      | 4'-0" | 19'-10" | 7"         | Х                |
| GT05-1 5'-0" 19'-10" 7" X GT06-1 6'-0" 19'-10" 7" X GT07-1 7'-0" 19'-10" 7" X GT07-1 9'-10" 7" X GT08-1 8-0" 19'-10" 7" X GTF04-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTF08-1 8-0" 19'-10" 9" X GTFU06-1 6'-0" 19'-10" 9" X GTFU06-1 19'-10" 9" X GTFU07-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X SPX GBU4-1 4'-0" 19'-10" 9" X SPX GBU4-1 4'-0" 19'-10" 9" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GTF06-1 19'-10" 7" X SPX GTF00-1 19'-10" 9" X SPX GTF00-1 19'-10" 9" X   | **GC04-1     | 4'-0" | 19'-10" | 7"         | Х                |
| GT06-1 6'-0" 19'-10" 7" X GT07-1 7'-0" 19'-10" 7" X GT08-1 8-0" 19'-10" 7" X GT604-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X SPX GBU04-1 4'-0" 19'-10" 9" X SPX GBU04-1 4'-0" 19'-10" 7" X SPX GT04-1 4'-0" 19'-10" 7" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT08-1 8-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GTF06-1 6'-0" 19'-10" 7" X SPX GTF00-1 5'-0" 19'-10" 9" X SPX GTF00-1 5'-0" 19'-10" 9" X  | GT04-1       | 4'-0" | 19'-10" | 7"         | Х                |
| GT07-1 7'-0" 19'-10" 7" X GT08-1 8-0" 19'-10" 7" X GTF04-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU06-1 19'-10" 9" X GTFU08-1 19'-10" 9" X SPX GB04-1 4'-0" 19'-10" 9" X SPX GB04-1 4'-0" 19'-10" 9" X SPX GT04-1 4'-0" 19'-10" 7" X SPX GT04-1 4'-0" 19'-10" 7" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT08-1 8-0" 19'-10" 7" X SPX GT08-1 19'-10" 7" X SPX GT08-1 19'-10" 7" X SPX GT08-1 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GTF06-1 5'-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 5'-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X   | GT05-1       | 5'-0" | 19'-10" | 7"         | Х                |
| GT08-1 8-0" 19'-10" 7" X GTF04-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU04-1 4'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X GTFU08-1 19'-10" 9" X SPX GB04-1 4'-0" 19'-10" 9" X SPX GB04-1 4'-0" 19'-10" 9" X SPX GT04-1 4'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT08-1 8-0" 19'-10" 7" X SPX GT08-1 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GTF06-1 19'-10" 7" X SPX GTF06-1 5'-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X  | GT06-1       | 6'-0" | 19'-10" | 7"         | Х                |
| GTF04-1 4'-0" 19'-10" 7" X GTF05-1 5'-0" 19'-10" 7" X GTF05-1 6'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU04-1 4'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 19'-10" 9" X GTFU06-1 6'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X GTFU08-1 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X SPX GB04-1 4'-0" 19'-10" 9" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GTF06-1 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF00-1 5'-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X  | GT07-1       | 7'-0" | 19'-10" | 7"         | Х                |
| GTF05-1 5'-0" 19'-10" 7" X GTF06-1 6'-0" 19'-10" 7" X GTF06-1 7'-0" 19'-10" 7" X GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU04-1 4'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU06-1 6'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X GTFU08-1 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X SPX GB04-1 4'-0" 19'-10" 9" X SPX GTFU05-1 5'-0" 19'-10" 7" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 19'-10" 7" X SPX GTF06-1 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF005-1 5'-0" 19'-10" 9" X SPX GTFU06-1 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X SPX GTFU06-1 5'-0" 19'-10" 9" X   | GT08-1       | 8-0"  | 19'-10" | 7"         | Х                |
| GTF06-1 6'-0" 19'-10" 7" X GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 9" X GTFU04-1 4'-0" 19'-10" 9" X GTFU05-1 6'-0" 19'-10" 9" X GTFU06-1 7'-0" 19'-10" 9" X GTFU07-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X SPX GTFU08-1 10'-10" 9" X SPX GTFU08-1 10'-10" 9" X  **SPX GB04-1 4'-0" 19'-10" 7" X SPX GTFU08-1 10'-10" 9" X SPX GTFU08-1 10'-10" 9" X SPX GTFU08-1 10'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X  | GTF04-1      | 4'-0" | 19'-10" | 7"         | Х                |
| GTF07-1 7'-0" 19'-10" 7" X GTF08-1 8-0" 19'-10" 7" X GTFU04-1 4'-0" 19'-10" 9" X GTFU05-1 5'-0" 19'-10" 9" X GTFU05-1 6'-0" 19'-10" 9" X GTFU07-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 7" X SPX GB04-1 4'-0" 19'-10" 7" X SPX GTF08-1 6'-0" 19'-10" 7" X SPX GTF08-1 5'-0" 19'-10" 7" X SPX GTF08-1 5'-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTFU08-1 4'-0" 19'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X   | GTF05-1      | 5'-0" | 19'-10" | 7"         | Х                |
| GTF08-1 8-0" 19-10" 7" X GTFU04-1 4'-0" 19-10" 9" X GTFU05-1 5'-0" 19-10" 9" X GTFU06-1 6'-0" 19-10" 9" X GTFU07-1 7'-0" 19-10" 9" X GTFU08-1 8-0" 19-10" 9" X  SPX GB04-1 4'-0" 19-10" 9" X  SPX GB04-1 4'-0" 19-10" 7" X SPX GB04-1 4'-0" 19-10" 7" X SPX GT04-1 4'-0" 19-10" 7" X SPX GT05-1 5'-0" 19-10" 7" X SPX GT06-1 6'-0" 19-10" 7" X SPX GT06-1 5'-0" 19-10" 7" X SPX GT06-1 6'-0" 19-10" 7" X SPX GT06-1 6'-0" 19-10" 7" X SPX GTF06-1 5'-0" 19-10" 7" X SPX GTF06-1 6'-0" 19-10" 7" X SPX GTF06-1 6'-0" 19-10" 7" X SPX GTF06-1 5'-0" 19-10" 7" X SPX GTF06-1 6'-0" 19-10" 7" X SPX GTF06-1 7'-0" 19-10" 7" X SPX GTF06-1 6'-0" 19-10" 7" X SPX GTF06-1 5'-0" 19-10" 7" X SPX GTF006-1 5'-0" 19-10" 9" X SPX GTFU06-1 5'-0" 19-10" 9" X SPX GTFU06-1 5'-0" 19-10" 9" X  | GTF06-1      | 6'-0" | 19'-10" | 7"         | Х                |
| GTFU04-1         4'-0"         19'-10"         9"         X           GTFU05-1         5'-0"         19'-10"         9"         X           GTFU06-1         6'-0"         19'-10"         9"         X           GTFU07-1         7'-0"         19'-10"         9"         X           GTFU08-1         8-0"         19'-10"         9"         X           SPX GB04-1         4'-0"         19'-10"         7"         X           SPX GBU04-1         4'-0"         19'-10"         9"         X           **SPX GBU04-1         4'-0"         19'-10"         7"         X           SPX GT04-1         4'-0"         19'-10"         7"         X           SPX GT05-1         5'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF06-1  | GTF07-1      | 7'-0" | 19'-10" | 7"         | X                |
| GTFU05-1 5'-0" 19'-10" 9" X GTFU06-1 6'-0" 19'-10" 9" X GTFU08-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 7" X  SPX GT05-1 5'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 5'-0" 19'-10" 7" X  SPX GT06-1 5'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 8-0" 19'-10" 7" X  SPX GT06-1 8-0" 19'-10" 7" X  SPX GT06-1 19'-10" 7" X  SPX GT06-1 19'-10" 7" X  SPX GT06-1 19'-10" 7" X  SPX GTF06-1 19'-10" 7" X  SPX GTF08-1 8-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X   | GTF08-1      | 8-0"  | 19'-10" | 7"         | X                |
| GTFU06-1 6'-0" 19'-10" 9" X GTFU07-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X  **SPX GBU04-1 4'-0" 19'-10" 7" X  SPX GT05-1 5'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 8-0" 19'-10" 7" X  SPX GTF06-1 8-0" 19'-10" 7" X  SPX GTF06-1 19'-10" 7" X  SPX GTF06-1 6'-0" 19'-10" 7" X  SPX GTF06-1 6'-0" 19'-10" 7" X  SPX GTF06-1 6'-0" 19'-10" 7" X  SPX GTF08-1 8-0" 19'-10" 9" X  SPX GTFU06-1 6'-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X  | GTFU04-1     | 4'-0" | 19'-10" | 9"         | X                |
| GTFU07-1 7'-0" 19'-10" 9" X GTFU08-1 8-0" 19'-10" 9" X  SPX GB04-1 4'-0" 19'-10" 9" X  SPX GBU04-1 4'-0" 19'-10" 9" X  **SPX GC04-1 4'-0" 19'-10" 7" X  SPX GT05-1 5'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT08-1 8-0" 19'-10" 7" X  SPX GT06-1 9'-10" 7" X  SPX GT06-1 9'-10" 7" X  SPX GT06-1 7'-0" 19'-10" 7" X  SPX GT06-1 7'-0" 19'-10" 7" X  SPX GT06-1 8-0" 19'-10" 7" X  SPX GT06-1 9'-10" 7" X  SPX GT06-1 9'-10" 7" X  SPX GTF06-1 19'-10" 7" X  SPX GTF08-1 8-0" 19'-10" 7" X  SPX GTF08-1 8-0" 19'-10" 7" X  SPX GTF08-1 5'-0" 19'-10" 7" X  SPX GTF00-1 4'-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X  SPX GTFU06-1 6'-0" 19'-10" 9" X   | GTFU05-1     | 5'-0" | 19'-10" | 9"         | Х                |
| GTFU08-1         8-0"         19'-10"         9"         X           SPX GB04-1         4'-0"         19'-10"         7"         X           SPX GBU04-1         4'-0"         19'-10"         9"         X           **SPX GC04-1         4'-0"         19'-10"         7"         X           SPX GT04-1         4'-0"         19'-10"         7"         X           SPX GT05-1         5'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT08-1         8-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTF004-1         4'-0"         19'-10"         7"         X           SPX GTF004-1         8-0"         19'-10"         7"         X           SPX GTF0  | GTFU06-1     | 6'-0" | 19'-10" | 9"         | Х                |
| SPX GB04-1 4'-0" 19'-10" 7" X SPX GBU04-1 4'-0" 19'-10" 9" X  ***SPX GC04-1 4'-0" 19'-10" 7" X SPX GT04-1 4'-0" 19'-10" 7" X SPX GT05-1 5'-0" 19'-10" 7" X SPX GT06-1 6'-0" 19'-10" 7" X SPX GT06-1 7'-0" 19'-10" 7" X SPX GT08-1 8-0" 19'-10" 7" X SPX GT08-1 9-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 7" X SPX GTF08-1 8-0" 19'-10" 9" X SPX GTFU08-1 4'-0" 19'-10" 9" X SPX GTFU08-1 5'-0" 19'-10" 9" X  | GTFU07-1     | 7'-0" | 19'-10" | 9"         | Х                |
| SPX GBU04-1         4'-0"         19'-10"         9"         X           **SPX GC04-1         4'-0"         19'-10"         7"         X           SPX GT04-1         4'-0"         19'-10"         7"         X           SPX GT05-1         5'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT808-1         8-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU06-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  | GTFU08-1     | 8-0"  | 19'-10" | 9"         | Х                |
| SPX GBU04-1         4'-0"         19'-10"         9"         X           **SPX GC04-1         4'-0"         19'-10"         7"         X           SPX GT04-1         4'-0"         19'-10"         7"         X           SPX GT05-1         5'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT808-1         8-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU06-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  |              |       |         |            |                  |
| **SPX GC04-1 4'-0" 19'-10" 7" X  SPX GT04-1 4'-0" 19'-10" 7" X  SPX GT05-1 5'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT06-1 6'-0" 19'-10" 7" X  SPX GT07-1 7'-0" 19'-10" 7" X  SPX GT08-1 8-0" 19'-10" 7" X  SPX GT08-1 4'-0" 19'-10" 7" X  SPX GTF05-1 5'-0" 19'-10" 7" X  SPX GTF06-1 6'-0" 19'-10" 7" X  SPX GTF08-1 8-0" 19'-10" 7" X  SPX GTF08-1 9'-10" 7" X  SPX GTF08-1 19'-10" 7" X  SPX GTF08-1 19'-10" 9" X  SPX GTFU04-1 4'-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X  SPX GTFU06-1 5'-0" 19'-10" 9" X  | SPX GB04-1   | 4'-0" | 19'-10" | 7"         | X                |
| SPX GT04-1         4'-0"         19'-10"         7"         X           SPX GT05-1         5'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT08-1         8-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTF004-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | SPX GBU04-1  | 4'-0" | 19'-10" | 9"         | X                |
| SPX GT05-1         5'-0"         19'-10"         7"         X           SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT08-1         8-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTF004-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | **SPX GC04-1 | 4'-0" | 19'-10" | 7"         | X                |
| SPX GT06-1         6'-0"         19'-10"         7"         X           SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT08-1         8-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | SPX GT04-1   | 4'-0" | 19'-10" | 7"         | X                |
| SPX GT07-1         7'-0"         19'-10"         7"         X           SPX GT08-1         8-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | SPX GT05-1   | 5'-0" | 19'-10" | 7"         | X                |
| SPX GT08-1         8-0"         19'-10"         7"         X           SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | SPX GT06-1   | 6'-0" | 19'-10" | 7"         | X                |
| SPX GTF04-1         4'-0"         19'-10"         7"         X           SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  | SPX GT07-1   | 7'-0" | 19'-10" | 7"         | X                |
| SPX GTF05-1         5'-0"         19'-10"         7"         X           SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | SPX GT08-1   | 8-0"  | 19'-10" | 7"         | X                |
| SPX GTF06-1         6'-0"         19'-10"         7"         X           SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  | SPX GTF04-1  | 4'-0" | 19'-10" | 7"         | X                |
| SPX GTF07-1         7'-0"         19'-10"         7"         X           SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X   | SPX GTF05-1  | 5'-0" | 19'-10" | 7"         | Х                |
| SPX GTF08-1         8-0"         19'-10"         7"         X           SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  | SPX GTF06-1  | 6'-0" | 19'-10" | 7"         | X                |
| SPX GTFU04-1         4'-0"         19'-10"         9"         X           SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  | SPX GTF07-1  | 7'-0" | 19'-10" | 7"         | X                |
| SPX GTFU05-1         5'-0"         19'-10"         9"         X           SPX GTFU06-1         6'-0"         19'-10"         9"         X  | SPX GTF08-1  | 8-0"  | 19'-10" | 7"         | X                |
| SPX GTFU06-1 6'-0" 19'-10" 9" X  | SPX GTFU04-1 | 4'-0" | 19'-10" | 9"         | X                |
|  | SPX GTFU05-1 | 5'-0" | 19'-10" | 9"         | X                |
|  | SPX GTFU06-1 | 6'-0" | 19'-10" | 9"         | X                |
| SPX GTFU07-1 7'-0" 19'-10" 9" X  | SPX GTFU07-1 | 7'-0" | 19'-10" | 9"         | X                |
| SPX GTFU08-1 8-0" 19'-10" 9" X   | SPX GTFU08-1 | 8-0"  | 19'-10" | 9"         | X                |

### **GENERAL NOTES**

- 1 CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES, SCALES SHOWN ARE FOR INFORMATION ONLY
- NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY
- NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
- 7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION, PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
- WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS. ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS

### CRASHWORTHY NAW **GROUND MOUNTED PANEL SCHEDULE** (NO TL-4 IMPACT)

|              |        |         | ,           |           |
|--------------|--------|---------|-------------|-----------|
| PANEL MARK   | PANEL  | PANEL   | TOTAL PANEL | NUMBER OF |
| PANEL WARK   | HEIGHT | WIDTH   | THICKNESS   | PANELS    |
| *CGC04-1     | 4'-0"  | 14'-10" | 9"          | Х         |
| CGT05-1      | 5'-0"  | 14'-10" | 9"          | Х         |
| CGT06-1      | 6'-0"  | 14'-10" | 9"          | Х         |
| CGT07-1      | 7'-0"  | 14'-10" | 9"          | Х         |
| CGT08-1      | 8-0"   | 14'-10" | 9"          | Х         |
| CGT09-1      | 9-0"   | 14'-10" | 9"          | Х         |
|              |        |         |             |           |
| *SPX CGC04-1 | 4'-0"  | X'-X"   | 9"          | X         |
| SPX CGT05-1  | 5'-0"  | X'-X"   | 9"          | X         |
| SPX CGT06-1  | 6'-0"  | X'-X"   | 9"          | X         |
| SPX CGT07-1  | 7'-0"  | X'-X"   | 9"          | X         |
| SPX CGT08-1  | 8-0"   | X'-X"   | 9"          | Х         |
| SPX CGT09-1  | 9-0"   | X'-X"   | 9"          | X         |
|              |        |         |             |           |

\* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

\*\* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 8FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G15 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

### LIST OF ABBREVIATIONS

AASHTO AMERICAN ASSOCIATION OF STATE

|                 | HIGHWAY AND TRANSPORTATION       |
|-----------------|----------------------------------|
|                 | OFFICIALS                        |
| ABUT.           | ABUTMENT                         |
| BK.             | BACK                             |
| B.F.            | BACK FACE                        |
| B               | BASELINE                         |
| BRG.            | BEARING                          |
| BOTT.           | BOTTOM                           |
| B/              | BOTTOM OF                        |
| BM              | BRIDGE MOUNTED                   |
| Œ.              | CENTERLINE                       |
| CLR.            | CLEARANCE                        |
| COL.            | COLUMN                           |
| CONC.           | CONCRETE                         |
| CGM             | CRASHWORTHY GROUND MOUNTED       |
| E.E.            | EACH END                         |
| E.              | EAST                             |
| EB              | EASTBOUND                        |
| ELEV.           | ELEVATION                        |
| EQ.             | EQUAL                            |
|                 | EXISTING                         |
| EXP.            | EXPANSION                        |
| F.F.            | FRONT FACE                       |
| JT.             | JOINT                            |
| LOC.            | LOCATION                         |
| MAX.            | MAXIMUM                          |
| MIN.            | MINIMUM                          |
| NAW             | NOISE ABATEMENT WALL             |
| N.              | NORTH                            |
| N.A.            | NOT APPLICABLE                   |
| O.C.            | ON CENTER                        |
| PL.             | PLATE                            |
| PVC             | POINT OF VERTICAL CURVE          |
| PVI             | POINT OF VERTICAL INTERSECTION   |
| PVT             | POINT OF VERTICAL TANGENCY       |
|                 | PROPOSED                         |
| SHLDR.          |                                  |
| S.              | SOUTH                            |
| S.P.            | SPECIAL PROVISION<br>SQUARE FOOT |
|                 |                                  |
| SQ. YD.<br>STA. | SQUARE YARD<br>STATION           |
|                 | STRUCTURAL                       |
| STRUCT.         | SIRUCIUKAL                       |

STRUCTURE MOUNTED

UNLESS NOTED OTHERWISE

TOP OF

TYPICAL

WESTBOUND

WIDE FLANGE

U.N.O.

WB

WF

### CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

| PANEL MARK    | PANEL  | PANEL   | TOTAL PANEL | NUMBER OF |
|---------------|--------|---------|-------------|-----------|
| PANEL WARK    | HEIGHT | WIDTH   | THICKNESS   | PANELS    |
| CGBI06-1      | 6'-0"  | 14'-10" | 11"         | Х         |
| CGBI07-1      | 7'-0"  | 14'-10" | 11"         | X         |
| CGBI08-1      | 8'-0"  | 14'-10" | 11"         | X         |
| CGB 09-1      | 9'-0"  | 14'-10" | 11"         | X         |
| CGC 06-1      | 6'-0"  | 14'-10" | 11"         | Х         |
| CGCI07-1      | 7'-0"  | 14'-10" | 11"         | X         |
| CGCI08-1      | 8'-0"  | 14'-10" | 11"         | X         |
| CGCI09-1      | 9'-0"  | 14'-10" | 11"         | Х         |
| CGTI06-1      | 6'-0"  | 14'-10" | 11"         | X         |
| CGTI07-1      | 7'-0"  | 14'-10" | 11"         | X         |
| CGTI08-1      | 8'-0"  | 14'-10" | 11"         | X         |
| CGTI09-1      | 9'-0"  | 14'-10" | 11"         | X         |
| CGTFI06-1     | 6'-0"  | 14'-10" | 11"         | X         |
| CGTFI07-1     | 7'-0"  | 14'-10" | 11"         | X         |
| CGTFI08-1     | 8'-0"  | 14'-10" | 11"         | X         |
| CGTFI09-1     | 9'-0"  | 14'-10" | 11"         | Х         |
|               |        |         |             |           |
| SPX CGBI06-1  | 6'-0"  | X'-X"   | 11"         | Х         |
| SPX CGBI07-1  | 7'-0"  | X'-X"   | 11"         | Х         |
| SPX CGBI08-1  | 8'-0"  | X'-X"   | 11"         | X         |
| SPX CGBI09-1  | 9'-0"  | X'-X"   | 11"         | X         |
| SPX CGCI06-1  | 6'-0"  | X'-X"   | 11"         | X         |
| SPX CGCI07-1  | 7'-0"  | X'-X"   | 11"         | X         |
| SPX CGCI08-1  | 8'-0"  | X'-X"   | 11"         | X         |
| SPX CGCI09-1  | 9'-0"  | X'-X"   | 11"         | Х         |
| SPX CGTI06-1  | 6'-0"  | X'-X"   | 11"         | X         |
| SPX CGTI07-1  | 7'-0"  | X'-X"   | 11"         | Х         |
| SPX CGTI08-1  | 8'-0"  | X'-X"   | 11"         | X         |
| SPX CGTI09-1  | 9'-0"  | X'-X"   | 11"         | Х         |
| SPX CGTFI06-1 | 6'-0"  | X'-X"   | 11"         | X         |
| SPX CGTFI07-1 | 7'-0"  | X'-X"   | 11"         | X         |
| SPX CGTFI08-1 | 8'-0"  | X'-X"   | 11"         | X         |
| SPX CGTFI09-1 | 9'-0"  | X'-X"   | 11"         | X         |

### THURUNALARUNALARU NOTE TO DESIGNER THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE - DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. -NEREZEZEZEZEZEZEZEZ

GTF= NON-CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL GTFU= NON-CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (UNBALANCED SOIL LOAD) GT = NON-CRASHWORTHY GROUND MOUNTED TOP PANEL

GC = NON-CRASHWORTHY GROUND MOUNTED CENTER PANEL GB = NON-CRASHWORTHY GROUND MOUNTED BOTTOM PANEL

GBU = NON-CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (UNBALANCED SOIL LOAD)

\*\* CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)

\*\* CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)

\*\*\* CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT) \*\*\* CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)

\*\*\* CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)

\*\*\* CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT) SP = SPECIALTY PANEL

THESE PANELS HAVE BEEN DESIGNED FOR THE MAXIMUM UNBALANCED SOIL LOAD.

THESE PANELS HAVE BEEN DESIGNED FOR THE

4KIP VEHICLE COLLISION LOADING.

THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

### **DESIGN SPECIFICATIONS**

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL XXXXXXXX

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, XXXXXXXX

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, XTH EDITION DATED XXXXXXXX.



### CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION LATEST GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

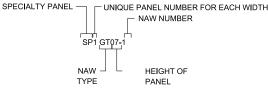
ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ISSUED XXXXXXXX

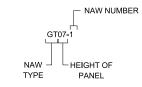
ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS,

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED XXXXXXXX









TYPICAL PANEL NAMING CONVENTION



**GROUND MOUNTED NOISE** ABATEMENT WALL SCHEDULE

2025-03

M-BRG-532

|                |  |   | [                                     | ORILLED:                               | SHAFT S                               | CHEDULE          |                  |                  |          |                  | STEEL POS      | T SCHEDUL                              | .E                                       |
|----------------|--|---|---------------------------------------|--|---------------------------------------|------------------|------------------|------------------|----------|------------------|----------------|--|--|
| LOC            |  |   | T/ SHAFT                              | B/ SHAFT                               | SHAFT                                 | SHAFT            | B/ POST          | POST EMBED       | POST     | POST             | STEEL POST     | POST                                   | T/ WALL &                                |
| MARK           | STATION                                  | OFFSET                                  | EL.                                   | EL.                                    | DEPTH                                 | DIAMETER         | EMBED EL.        | DEPTH            | MARK     | MARK             |                | LENGTH                                 | POST EL.                                 |
| G01-1          | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 01       | 01               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G02-1          | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 02       | 02               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G03-1          | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 03       | 03               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G04-1          | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 04       | 04               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G05-1          | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 05       | 05               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G06-1          | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 06       | 06               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G07-1<br>G08-1 | XXX+XX.XX<br>XXX+XX.XX                   | XX.XX<br>XX.XX                          | XXX.XX<br>XXX.XX                      | XXX.XX                                 | XX.XX<br>XX.XX                        | X'-XX"<br>X'-XX" | XXX.XX           | XXX.XX<br>XXX.XX | 07<br>08 | 07               | WXxXX<br>WXxXX | XX'-XX"<br>XX'-XX"                     | XXX.XX<br>XXX.XX                         |
| G08-1<br>G09-1 | XXX+XX.XX<br>XXX+XX.XX                   | XX.XX<br>XX.XX                          | XXX.XX<br>XXX.XX                      | XXX.XX<br>XXX.XX                       | XX.XX<br>XX.XX                        | X'-XX"           | XXX.XX<br>XXX.XX | XXX.XX<br>XXX.XX | 08       | 09               | WXxXX          | XX-XX<br>XX'-XX"                       | XXX.XX<br>XXX.XX                         |
| G010-1         | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 10       | 10               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
| G011-1         | XXX+XX.XX                                | XX.XX                                   | XXX.XX                                | XXX.XX                                 | XX.XX                                 | X'-XX"           | XXX.XX           | XXX.XX           | 11       | 11               | WXxXX          | XX'-XX"                                | XXX.XX                                   |
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| •              |  |   | Z Z Z                                 | N N N                                  | T I I                                 |                  |                  |                  |          |                  |                |  | 2223                                     |
| •              | I COMPI                                  | IIII                                    | Z Z Z<br>R ONE                        | III I                                  | DNLY 3                                |                  |                  |                  |          | COM              | PLETE FOR C    | A A A A                                | III II  |
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| <b>V</b>       | I I I I I                                | TTT.                                    | R ONE                                 | N N N<br>WALL O                        | DNLY T                                |                  |                  |                  |          | COM              | PLETE FOR C    | IIII                                   | IIIII                                    |
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|                | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z    | IIII                                    | N N N<br>R ONE                        | N. N. N. WALL (                        | N N N N                               |                  |                  |                  | <i>j</i> | COM              | PLETE FOR C    | DNE WAL                                | IIIII                                    |
| *              | I I I I I                                | ETE FO                                  | N N N<br>R ONE                        | N. N. N.<br>WALL (                     | N N N N                               |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WAL                                | IIIII                                    |
| *              | IIIII                                    | ETE FO                                  | N N N<br>R ONE                        | N. N. N. WALL O                        | N N N N                               |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WAL                                | IIII                                     |
| •              | IIII                                     | LETE FO                                 | N N N<br>R ONE                        | N. N. N. WALL O                        | N N N N N N N N N N N N N N N N N N N |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WAL                                | L L L Z<br>L ONLY Z                      |
| •              | IIII                                     | LETE FO                                 | N N N<br>R ONE                        | N. N. N. WALL C                        | N N N N N N N N N N N N N N N N N N N |                  |                  |                  | 3        | COM              | PLETE FOR C    | DNE WAL                                | LONLY 3                                  |
| •              | IIII                                     | LETE FO                                 | RONE                                  | N. N. N. WALL C                        | DNLY Z                                |                  |                  |                  | 3        | COM              | PLETE FOR C    | DNE WAL                                | I I I I I                                |
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|                | J J J J J J J J J J J J J J J J J J J    | Z J J Z J L ETE FO                      | RONE                                  | J. J. J. WALL (                        | DNLY DNLY                             |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | LONLY 3                                  |
|                | J J J J J                                | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | RONE                                  | N. N. N. WALL (                        | DNLY 7                                |                  |                  |                  |          | COM              | PLETE FOR C    | N. N. N. N. DNE WALI                   | LONLY 3                                  |
|                | TOMPI                                    | ETE FO                                  | RONE                                  | VALL O                                 | DNLY 3                                |                  |                  |                  |          | COM              | PLETE FOR C    | N N N N N N N N N N N N N N N N N N N  | LONLY 3                                  |
|                | TOMPI                                    | ETE FO                                  | RONE                                  | VALL O                                 | DNLY 3                                |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | LONLY 3                                  |
|                | T T T T                                  | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | RONE                                  | VALL (                                 | N N N N N N N N N N N N N N N N N N N |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | L L L J<br>L ONLY 3                      |
|                | J. J | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | RONE                                  | VALL (                                 | N N N N                               |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | LONLY 3                                  |
|                | J. J | Z J J J J J J J J J J J J J J J J J J J | RONE                                  | ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ | D. J. J.                              |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | J. J |
|                | I I I I                                  | Z J J J                                 | RONE                                  | NALL O                                 | III                                   |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | IIIII                                    |
|                | J. J | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | RONE                                  | N N N N N N N N N N N N N N N N N N N  | DNLY DNLY D                           |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | IIIII                                    |
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|                | J J J J J J J J J J J J J J J J J J J    | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | RONE                                  | J. J. J. WALL (                        | DNLY DNLY                             |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALL                               | L L L J J L ONLY 3                       |
|                | J J J J J                                | Z Z Z Z                                 | RONE                                  | J. J. J. WALL (                        | DNLY Z                                |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALL                               | L L L J J L ONLY 3                       |
|                | J J J J J                                | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | RONE                                  | J. J. J. WALL (                        | DNLY 3                                |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALL                               | L L L J J L ONLY 3                       |
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|                | J. J | Z J J J                                 | RONE                                  | III                                    | III                                   |                  |                  |                  |          | COM              | PLETE FOR C    | DNE WALI                               | J. J |
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| * POST IS LOCATED AT 90° TURN AND REQUIRES ADDITIONAL ANGLES WELDED TO FLANGE. |
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### TOTAL BILL OF MATERIAL PAY ITEM NO. JT599910 PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, NON-CRASHWORTHY SQ. FT. X JT599915 PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY SQ. FT. X

### NAW TYPE

G = NON-CRASHWORTHY GROUND MOUNTED CG = CRASHWORTHY GROUND MOUNTED

01 POST NUMBER NAW TYPE POST LOCATION

POST MARK CONVENTION

LOCATION MARK CONVENTION



NOTE TO DESIGNER

NOTE A STANDARD DRAWING. IT REQUIRES COMPLETION BY
THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"
ARE AVAILABLE ON THE ILL INOIS TOLLWAY WEBSITE. THE
DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE
DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE
DESIGNER SHALL BE REMOVED BY THE DESIGNER PRIOR TO
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"
BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO
INSERTION OF THE SHEET INTO THE PLAN SET.





GROUND MOUNTED NOISE ABATEMENT WALL SCHEDULE

 VERSION:
 BASE SHEET:
 SHEET:

 2025-03
 M-BRG-532
 3 of 4

