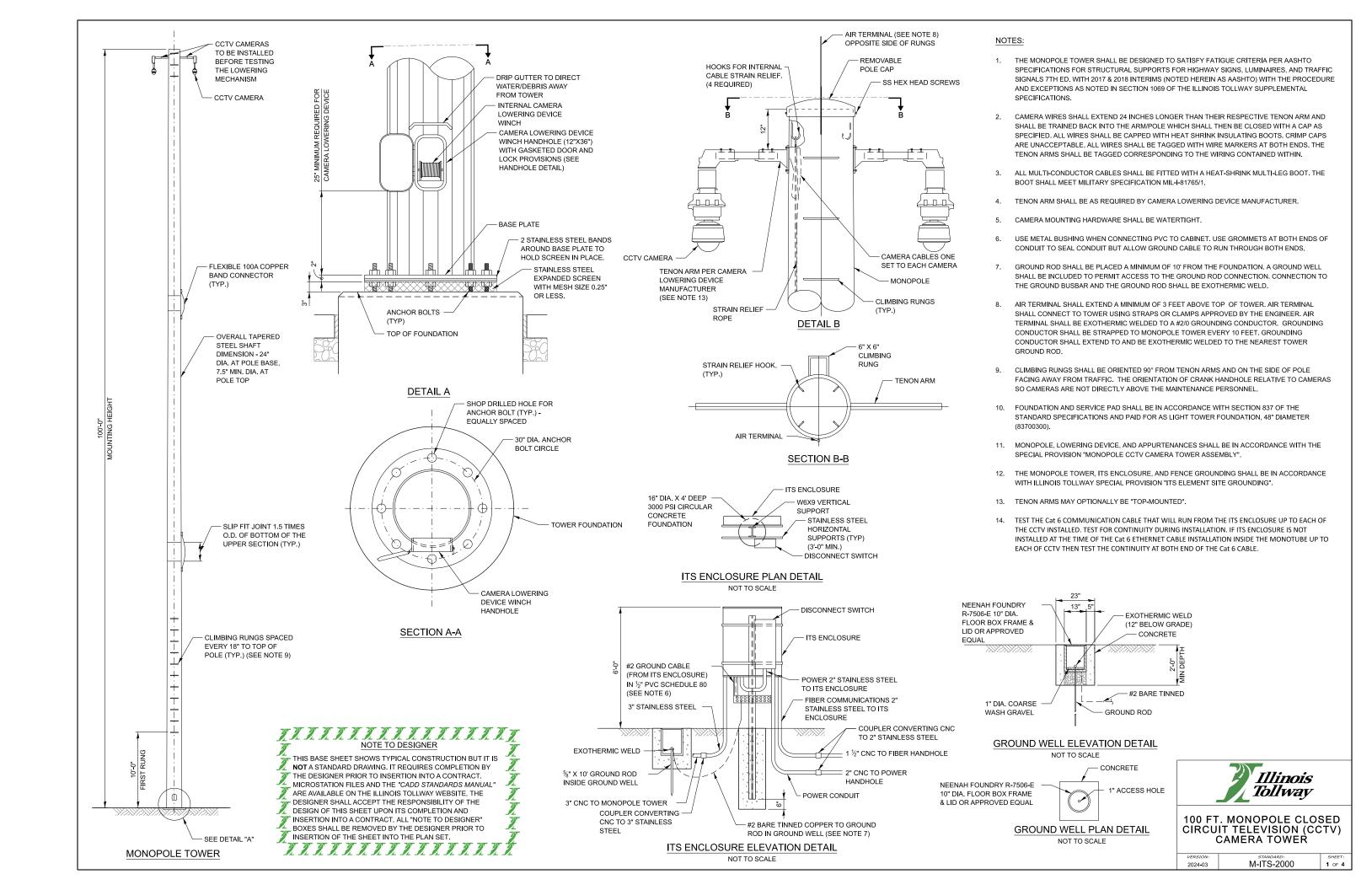
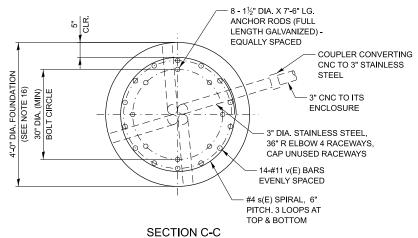
Illinois Tollway Base Sheet Revisions

Section M	Base Sheet Drawings					
	Drawing	Modification Summary Effective: 03-01-2024				
	100 FT. Monopole Camera Tower (ITS)-Series 2000					
	M-ITS-2000 100 Ft. Monopole Closed Circuit Television (CCTV) Camera Tower					
		Added Note: CCTV cameras to be installed before testing the lowering mechanism				
	Sheet 1	Added Note 14: Test the Cat 6 communication cable that runs from ITS enclosure to the top of each CCTV mounting housing. Test continuity at both ends of each Cat 6 cables after crimping their end connectors				
		Added missing call out for 1 1/2" CNC conduit for power				
		2" CNC to fiber optic changed to 1 1/2" conduit				
		1 1/2" CNC to power change to 2" CNC conduit				
	Sheet 4 Added dimension of ITS enclosure as reference					

New Sheet

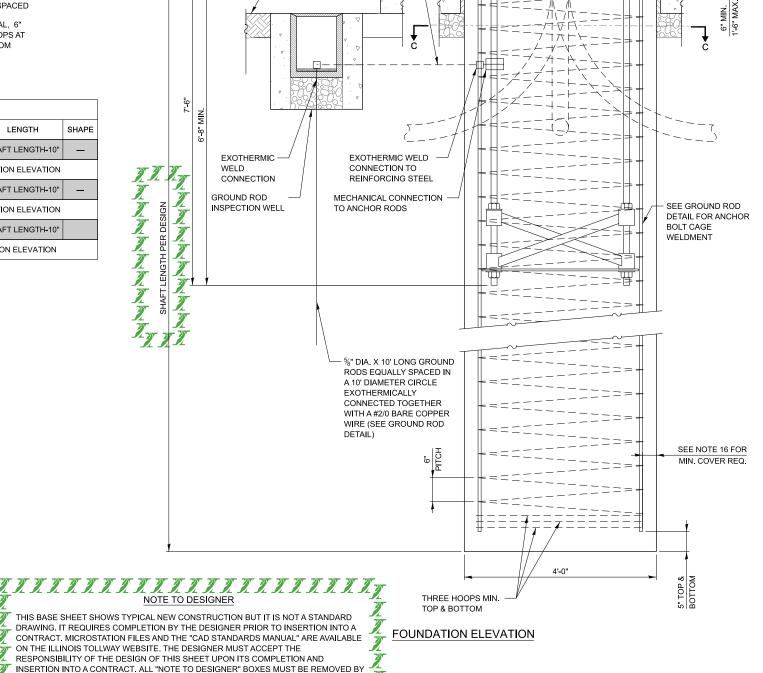
Retired Standard





MONOPOLE FOUNDATION SCHEDULE								
STATION	SHAFT LENGTH	BAR	NUMBER	SIZE	LENGTH	SHAPE		
		v(E)	14	11	SHAFT LENGTH-10"	_		
		#4 SPIRAL s(E) - SEE FOUNDATION ELEVATION						
		v(E)	14	11	SHAFT LENGTH-10"	_		
		#4 SPIRAL s(E) - SEE FOUNDATION ELEVATION						
		v(E)	14	11	SHAFT LENGTH-10"			
		#4 SPIRAL (E) - SEE FOUNDATION ELEVATION						

SHAFT LENGTH TABLE							
SOIL CONSISTENCY		AVERAGE STRENGTH	SHAFT LENGTH				
		Qu in tsf					
Cohesive	SOFT	< 0.5	22'-6"				
	MEDIUM	0.5 to 1	18'-6"				
	STIFF	1 to 2	15'-6"				
	VERY STIFF	2 to 4	13'-6"				
	HARD	> 4	12'-0"				
		N in BLOWS/FT.					
Granular	VERY LOOSE	< 5	18'-0"				
	LOOSE	5 to 10	16'-6"				
	MEDIUM	10 to 25	15'-6"				
	DENSE	25 to 50	15'-0"				
	VERY DENSE	> 50	14'-0"				



#2/0 BARE TINNED COPPER WIRE

EXISTING GROUND

SERVICE CONCRETE PAD

TYP.

THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. THE SHAFT LENGTH CAN BE DETERMINED FROM THE "SHAFT LENGTH TABLE". THE DESIGN SECTION

LOCATION TO DETERMINE THE ACTUAL SOIL PROPERTIES. SHOULD THE INVESTIGATION REVEAL THE PRESENCE OF SOILS OTHER THAN WHAT IS IN THE "SHAFT LENGTH TABLE", THE DESIGN SECTION ENGINEER SHALL DESIGN AND DETAIL THE DRILLED SHAFT

FOUNDATION TO MEET THE ACTUAL SOIL CONDITIONS. THE SOIL BORING LOG(S) SHALL

TREETERATION TO THE TREETERS THE TREETERS TO THE TREETERS TO THE TREETERS TO THE TREETERS THE TREETERS TO THE TREETERS THE TREETER

BE INCLUDED IN THE CONTRACT PLANS.

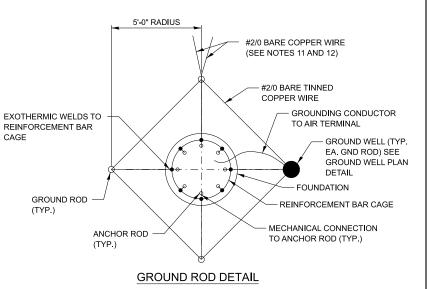
ENGINEER MUST CONDUCT A SUBSURFACE INVESTIGATION AT EACH FOUNDATION

NOTES:

1" CHAMFER

BASE PLATE

- THE ANCHOR RODS SHALL BE VERTICAL. NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- 2. THE TOP OF THE FOUNDATION TO 18" BELOW GRADE SHALL BE FORMED.
- 3. SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- 4. TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- 5. A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER MONOPOLE TOWER IS INSTALLED.
- STEEL ANCHOR ROD FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 3 DAYS AFTER CONCRETE IS POURED. THE TOWER SHALL NOT BE SET UNTIL THE CONCRETE HAS BEEN CURED ACCORDING TO ART. 1020.13 OF THE STANDARD SPECIFICATIONS, OR AS APPROVED BY THE ENGINEER
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION
 JOINTS.
- 10. ALL GROUNDING INDICATED ON THE PLANS SHALL BE INCLUDED IN THE COST OF ITS ELEMENT SITE GROUNDING.
- FOUNDATION GROUNDING RING IS TO BE CONNECTED TO PLAZA BUILDING GROUNDING HALO, IF WITHIN 100 FEET OF ONE ANOTHER.
- 12. FOUNDATION GROUNDING RING IS TO BE CONNECTED TO ITS ENCLOSURE GROUNDING.
- 13. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- 14. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DIFFERENT SOILS ARE FOUND DURING CONSTRUCTION THAN AS SHOWN IN THE SOIL BORINGS.
- 15. THE DRILLED SHAFT FOUNDATION CONCRETE SHALL BE CLASS DS WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. THE REINFORCEMENT BARS SHALL HAVE A MINIMUM FIELD STRENGTH OF 60,000 PSI.
- 16. FOUNDATION DIAMETER BASED ON 5" CONCRETE COVER. THE MINIMUM COVER SHALL BE 3" IN DRY SHAFT EXCAVATION AND 4" IN A WET HOLE. WHEN ROCK IS ENCOUNTERED A 5" COVER AGAINST SOIL AND A 2" COVER AGAINST ROCK SHALL BE REQUIRED.

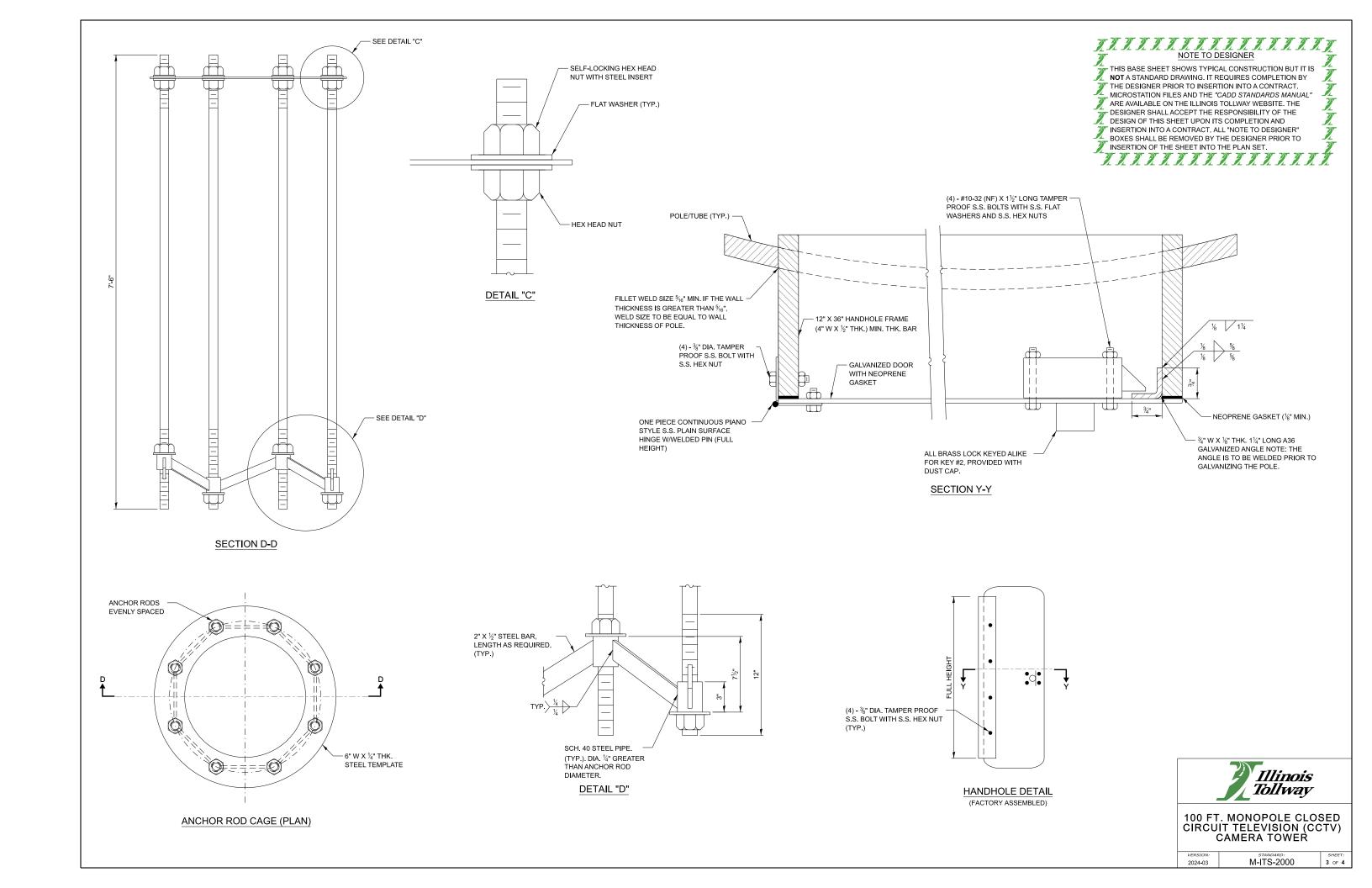


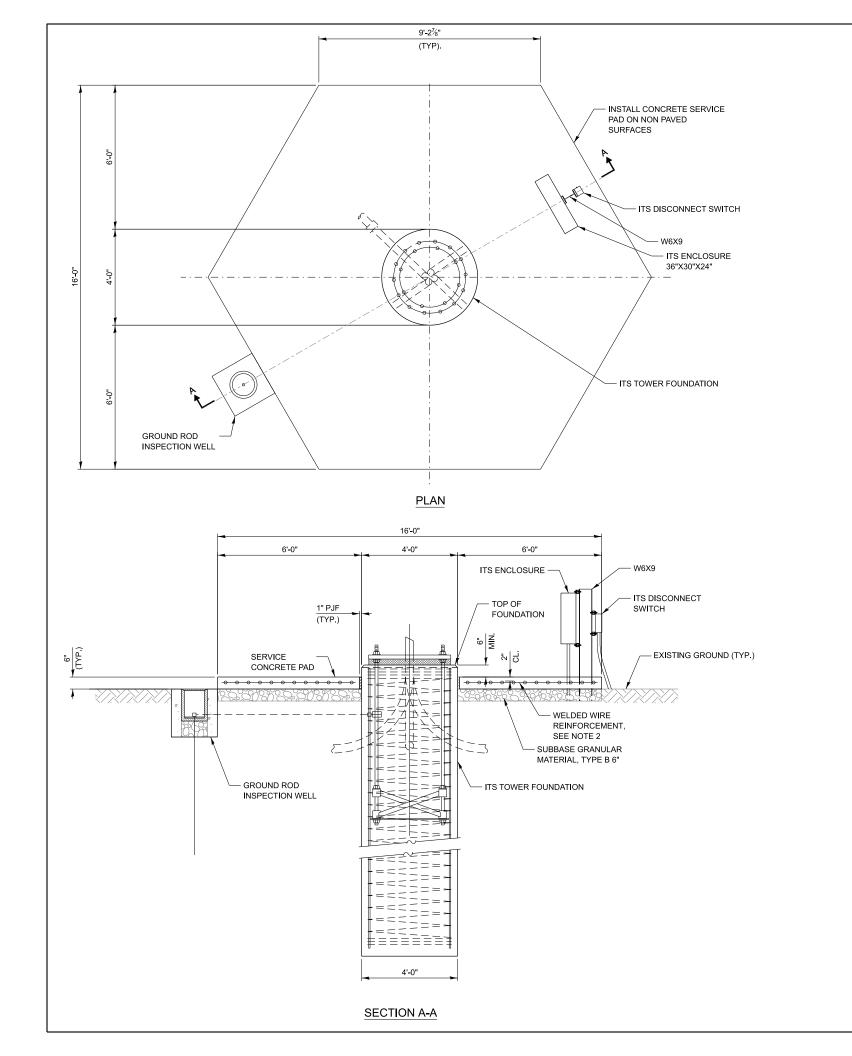


CIRCUIT TELEVISION (CCT CAMERA TOWER

2024-03 M-ITS-2000

00 2 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 REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

NOTES:

- 1. THE CONCRETE COMPRESSIVE STRENGTH SHALL BE F'C = 3,500 PSI. THE WELDED WIRE FABRIC GRADE SHALL BE FY = 65,000 PSI.
- 2. WELDED WIRE REINFORCEMENT SHALL HAVE A MINIMUM AREA OF 0.31 INCH IN EACH DIRECTION.
- 3. MIN. 3,000 PSF SOIL BEARING CAPACITY IS REQUIRED BELOW THE SERVICE PAD.
- 4. THE CABINET ASSEMBLY MUST BE ERECTED IN SUCH A WAY THAT THE CENTERLINE AXIS OF THE W-BEAM WEB IS LOCATED 90 DEGREES FROM THE CENTERLINE OF THE TENON ARM FOR THE CAMERAS.



100 FT. MONOPOLE CLOSED CIRCUIT TELEVISION (CCTV) CAMERA TOWER

2024-03

M-ITS-2000

4 OF 4