STANDARD DETAILS

SCHOOL ZONE SPEED DETECTION

SHEET INDEX

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1	COVER SHEET
2	GENERAL NOTES AND DETAILS
3	FOUNDATION AND POLE DETAILS

REVISION	DATE	INITIALS BY

Sunshine811

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No. 41275
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/16/2026

SITESTREAM
SCHOOL ZONE SPEED DETECTION
STANDARD DETAILS
COVER SHEET

DESIGNED RBZ | DRAWN AA | CHECKED RBZ

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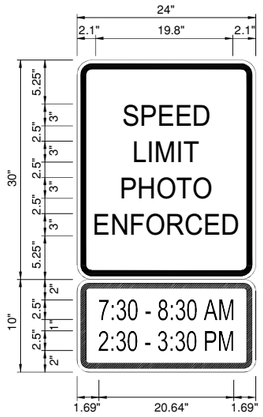
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PROJECT NO. 2026-SSSDSFL01
DATE 08/25/2026
SHEET 1 OF 3

GENERAL NOTES:

1. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT SCHOOL ZONE SPEED DETECTION SYSTEM PLACEMENT AND INSTALLATION SPECIFICATIONS, JANUARY 07, 2026.
2. POLE AND FOUNDATION DESIGNED PER AASTHO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, LRFDLTS-1, 2015 EDITION WITH 2017, 2018, 2019, AND 2022 INTERIM REVISIONS AND FDOT STRUCTURAL DESIGN MANUAL, JANUARY 2026.
3. DESIGN WIND SPEED IS 170 MPH - MEAN RECURRANCE INTERVAL (MRI): 300 YEARS.
4. CONCRETE SHALL HAVE A MINIMUM 28-DAY DESIGN STRENGTH OF 3,400 PSI, AND HAVE AT LEAST 505 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD.
5. PROVIDE A FLAT BEARING SURFACE ON TOP SURFACE ON TOP SHAFT BELOW THE POLE BASE. SLOPE TOP SURFACE OF CONCRETE SHAFT OUTSIDE OF POLE BASE TO DRAIN AWAY FROM POLE.
6. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT DESIGNATED AGENCY TO LOCATE ALL UNDERGROUND UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE TO APPLY AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD AND LOCAL STANDARDS AS REQUIRED.
8. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION TO STATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY SATISFACTION AT NO ADDITIONAL COMPENSATION.
9. ALL WORK SHALL CONFORM TO ALL APPLICABLE ELECTRICAL CODES EXCEPT WHEN SATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY STANDARDS SUPERSEDE.
10. CONNECT POLE TO SOLID BARE BOND GROUND & GROUNDING ROD (OR COIL 25' OF NO. 6 BARE COPPER) IN POLE FOUNDATION & TO SYSTEM GROUND BONDED BACK TO FLOCK SAFETY CABINET.
11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY SPECIFICATIONS UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE HEREIN.
12. ALL SIDEWALK CONSTRUCTION SHALL BE IN ACCORDANCE WITH ADA TITLE II AND ALL STATE DEPARTMENT OF TRANSPORTATION AND LOCAL STANDARDS.
13. USE STATE DEPARTMENT OF TRANSPORTATION CURRENT EDITION STANDARDS FOR PEDESTRIAN CONTROL PLANS FOR CLOSURE OF SIDEWALK.
14. MINIMUM SIDEWALK CLEAR PEDESTRIAN ACCESS ROUTE (PAR) IS 48" WIDE.
15. NO OBSTRUCTION IS PERMITTED ALONG THE WIDTH OF THE SIDEWALK UP TO 7'-0" IN HEIGHT.

SPEED LIMIT PHOTO ENFORCEMENT SIGN
(SPEED LIMIT 40 MPH OR LESS)

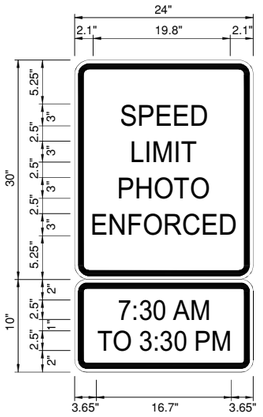


FTP - MINIMUM, SPEED LIMIT PHOTO ENFORCED;
1.5" RADIUS, 0.63" BORDER,
0.38" INDENT, BLACK ON WHITE;
"SPEED" D 2K;
"LIMIT" D 2K;
"PHOTO" D 2K;
"ENFORCED" D 2K

AUX PANEL, FTP MINIMUM;
1.5" RADIUS, 0.63" BORDER,
0.38" INDENT, BLACK ON WHITE;
"7:30 - 8:30 AM" D 2K 75% LETTER SPACING;
"2:30 - 3:30 PM" D 2K 75% LETTER SPACING

**WHEN SDS IS TO BE USED FOR SCHOOL ZONE SPEED ENFORCEMENT WITHIN 30 MINUTES BEFORE THROUGH 30 MINUTES AFTER THE START OF A REGULARLY SCHEDULED SCHOOL SESSION OR BREAKFAST PROGRAM AND WITHIN 30 MINUTES BEFORE THROUGH 30 MINUTES AFTER THE END OF A REGULARLY SCHEDULED SCHOOL SESSION

DETAIL "1A"



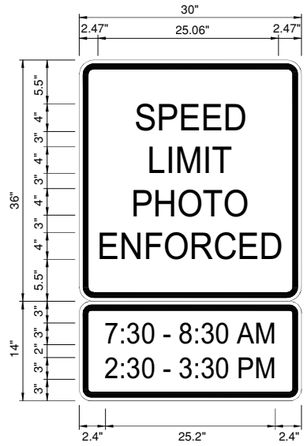
FTP - MINIMUM, SPEED LIMIT PHOTO ENFORCED;
1.5" RADIUS, 0.63" BORDER,
0.38" INDENT, BLACK ON WHITE;
"SPEED" D 2K;
"LIMIT" D 2K;
"PHOTO" D 2K;
"ENFORCED" D 2K

AUX PANEL, FTP MINIMUM;
1.5" RADIUS, 0.63" BORDER,
0.38" INDENT, BLACK ON WHITE;
"7:30 AM" D 2K 75% LETTER SPACING;
"TO 3:30 PM" D 2K 75% LETTER SPACING

**WHEN SDS IS TO BE USED FOR SCHOOL ZONE SPEED ENFORCEMENT DURING THE ENTIRELY OF A REGULARLY SCHEDULED SCHOOL SESSION

DETAIL "2A"

SPEED LIMIT PHOTO ENFORCEMENT SIGN
(SPEED LIMIT 45 MPH OR ABOVE)

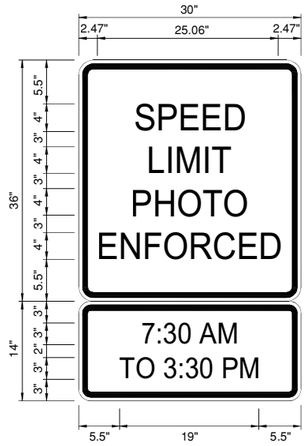


FTP - MINIMUM, SPEED LIMIT PHOTO ENFORCED;
1.875" RADIUS, 0.787" BORDER,
0.475" INDENT, BLACK ON WHITE;
"SPEED" D 2K;
"LIMIT" D 2K;
"PHOTO" D 2K;
"ENFORCED" D 2K 75% LETTER SPACING

AUX PANEL, FTP MINIMUM;
1.875" RADIUS, 0.787" BORDER,
0.3475" INDENT, BLACK ON WHITE;
"7:30 - 8:30 AM" D 2K 75% LETTER SPACING;
"2:30 - 3:30 PM" D 2K 75% LETTER SPACING

**WHEN SDS IS TO BE USED FOR SCHOOL ZONE SPEED ENFORCEMENT WITHIN 30 MINUTES BEFORE THROUGH 30 MINUTES AFTER THE START OF A REGULARLY SCHEDULED SCHOOL SESSION OR BREAKFAST PROGRAM AND WITHIN 30 MINUTES BEFORE THROUGH 30 MINUTES AFTER THE END OF A REGULARLY SCHEDULED SCHOOL SESSION

DETAIL "1B"

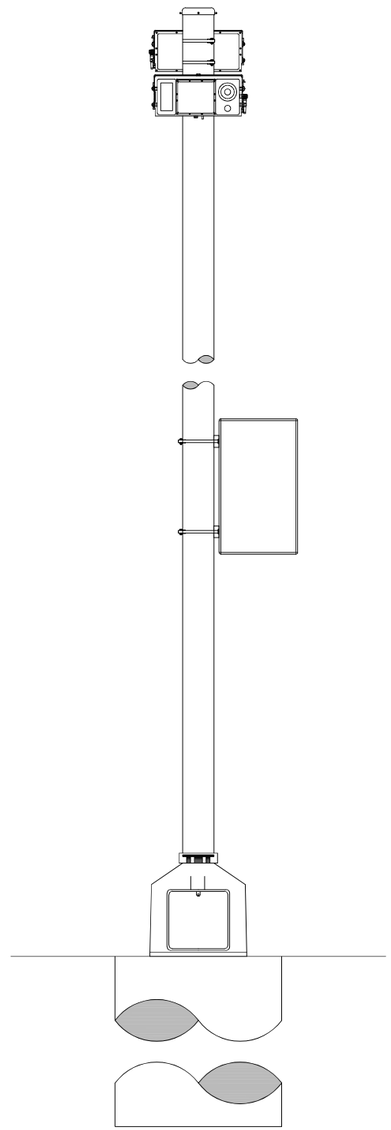


FTP - MINIMUM, SPEED LIMIT PHOTO ENFORCED;
1.875" RADIUS, 0.787" BORDER,
0.475" INDENT, BLACK ON WHITE;
"SPEED" D 2K;
"LIMIT" D 2K;
"PHOTO" D 2K;
"ENFORCED" D 2K 75% LETTER SPACING

AUX PANEL, FTP MINIMUM;
1.875" RADIUS, 0.787" BORDER,
0.475" INDENT, BLACK ON WHITE;
"7:30 AM" D 2K 75% LETTER SPACING;
"TO 3:30 PM" D 2K 75% LETTER SPACING

**WHEN SDS IS TO BE USED FOR SCHOOL ZONE SPEED ENFORCEMENT DURING THE ENTIRELY OF A REGULARLY SCHEDULED SCHOOL SESSION

DETAIL "2B"



TYPICAL
ALUMINUM CAMERA POLE DETAIL
(FOR DETAILS SEE SHEET 3)

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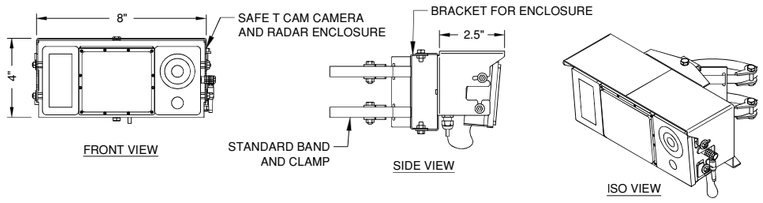
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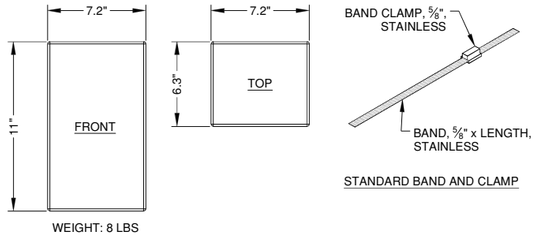
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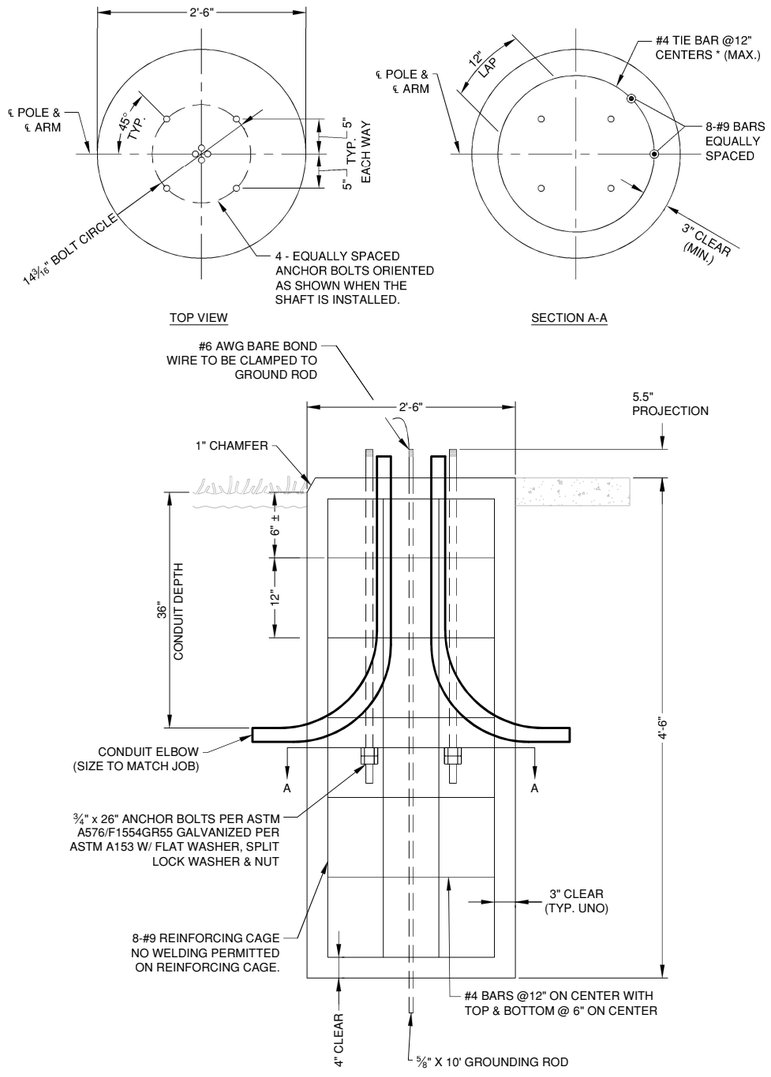
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SHEET 2 OF 3



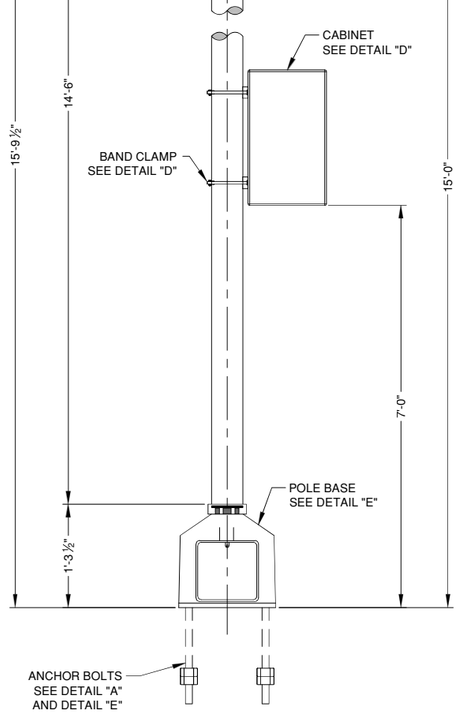
DETAIL "C"
CAMERA AND RADAR DETAIL



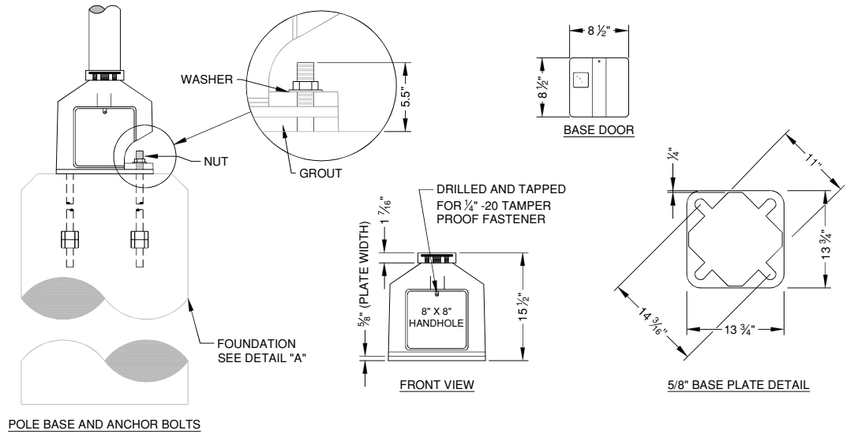
DETAIL "D"
CABINET DETAIL



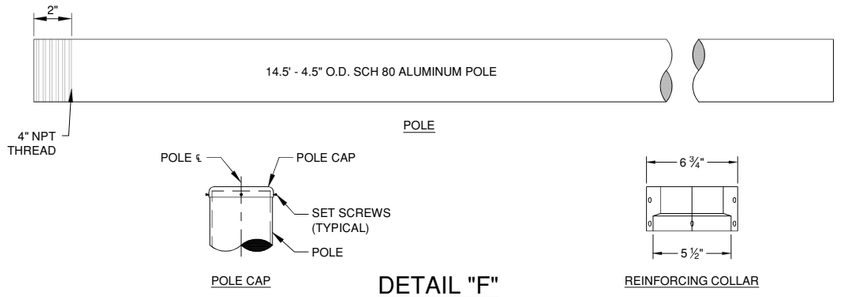
DETAIL "A"
ALUMINUM POLE CONCRETE FOUNDATION DETAIL



DETAIL "B"
TYPICAL ALUMINUM POLE DETAIL



DETAIL "E"
COMPONENT PRODUCTS, INC. TRANSFORMER BASE CPI-BAS-1P.



DETAIL "F"
POLE DETAIL

FOUNDATION DESIGN NOTES:

1. DESIGN CRITERIA:
   A. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (LRFDLTS-1) 2015 EDITION WITH 2017, 2018, 2019, AND 2022 INTERIM REVISIONS AND FDOT STRUCTURES MANUAL, JANUARY 2026.
2. DESIGN WIND SPEED: 170 MPH - MEAN RECURRANCE INTERVAL (MRI): 300 YEARS
3. THE FOLLOWING SOIL PROPERTIES WERE ASSUMED FOR THE FOUNDATION DESIGN. IF THE ENCOUNTERED SOIL CONDITIONS DO NOT MEET THESE ASSUMED SOIL PARAMETERS, THEN A SPECIAL FOUNDATION MUST BE DESIGNED.
   A. SOIL TYPE: COHESIONLESS
   B. GROUNDWATER TABLE: AT GROUND SURFACE OR LOWER
   C. SOIL EFFECTIVE UNIT WEIGHT: 50 PCF MINIMUM
   D. INTERNAL ANGLE OF FRICTION: 30 DEGREES MINIMUM

FOUNDATION NOTES:

1. CONCRETE: FDOT CLASS II WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,400 PSI.
2. REINFORCING STEEL: ASTM A615, GRADE 60.
3. ANCHOR RODS:
   A. RODS: ASTM F1554, GRADE 55
   B. NUTS: ASTM A563
   C. WASHERS: ASTM F436
   D. GALVANIZE ALL ITEMS IN ACCORDANCE WITH ASTM F2329.
4. FOR PRECAST CONCRETE FOUNDATIONS, FILL THE VOID AROUND THE FOUNDATION WITH FLOWABLE FILL OR CLEAN SANDS USING HYDRAULIC METHODS TO A LEVEL 6 INCHES BELOW GRADE.
5. AFTER THE POLE IS SET IN FINAL POSITION AND ALIGNMENT, APPLY A COAT OF ZINC-RICH PAINT TO THE ANCHOR ROD THREADS AND NUTS TO SEAL THE JOINT BETWEEN THE NUT AND ANCHOR ROD.
6. WHERE FOUNDATION ABUTS THE SIDEWALK, THE TOP OF THE FOUNDATION SHALL BE LEVEL WITH THE SIDEWALK. FOR ALL OTHER CASES, THE TOP OF THE FOUNDATION SHALL NOT BE MORE THAN 3 INCHES ABOVE GRADE.

POLE AND FOUNDATION DESIGN IS BASED STRUCTURAL CALCULATION BY CHELSEA ROMERO, PE. A FLORIDA REGISTERED PROFESSIONAL ENGINEER (PE# 73851); BTS ENGINEERING CONSULTANTS.

REVISION	DATE	INITIALS BY

Sunshine811

CHELSEA B. ROMERO — No. 41275 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
9/16/2026

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