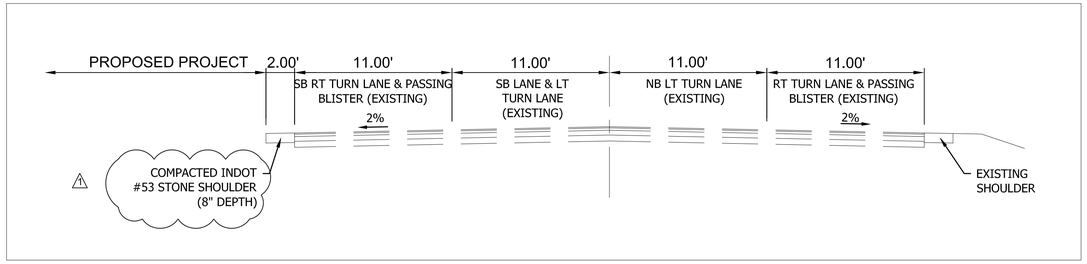
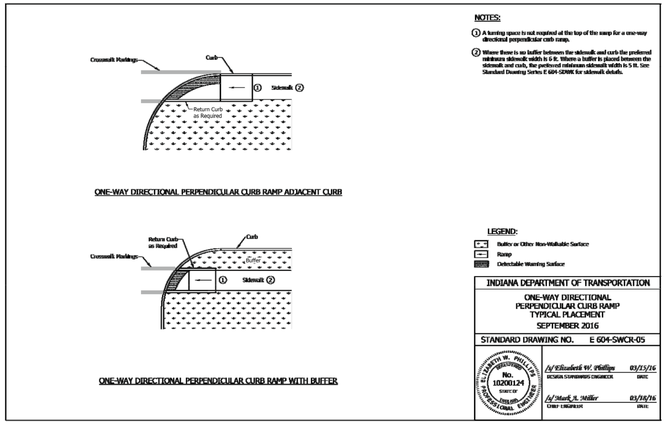


CYNTHEANNE ROAD TYPICAL CROSS SECTION



NOTES:

1. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
2. Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 5 ft. Where a buffer is placed between the sidewalk and curb, the portrayed minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

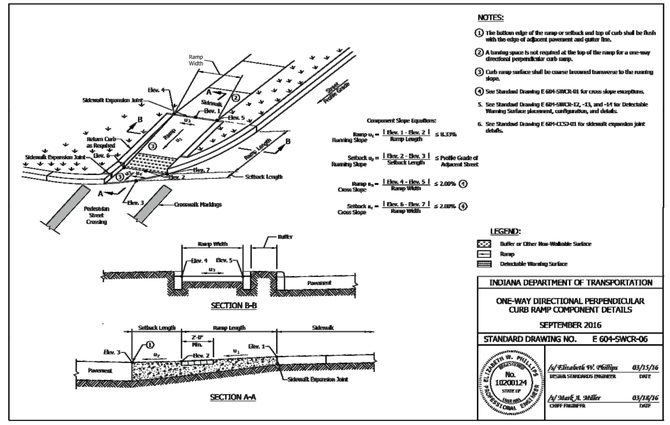
INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP TYPICAL PLACEMENT

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-05

No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/15/16 DATE
	/s/Mark A. Miller — CHIEF ENGINEER	03/16/16 DATE



NOTES:

1. The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.
2. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
3. Curb ramp surface shall be coarser broomed transverse to the running slope.
4. See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
5. See Standard Drawing E 604-SWCR-02, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
6. See Standard Drawing E 604-CSXI-01 for sidewalk expansion joint details.

Component Slope Equations:

Ramp $s_R = \frac{|\text{Elev. 1} - \text{Elev. 2}|}{\text{Ramp Length}} \leq 8.33\%$ — Running Slope

Setback $s_S = \frac{|\text{Elev. 2} - \text{Elev. 3}|}{\text{Setback Length}} \leq$ Profile Grade of Adjacent Street — Running Slope

Ramp $s_C = \frac{|\text{Elev. 4} - \text{Elev. 5}|}{\text{Ramp Width}} \leq 2.00\%$ (4) — Cross Slope

Setback $s_C = \frac{|\text{Elev. 6} - \text{Elev. 7}|}{\text{Ramp Width}} \leq 2.00\%$ (4) — Cross Slope

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

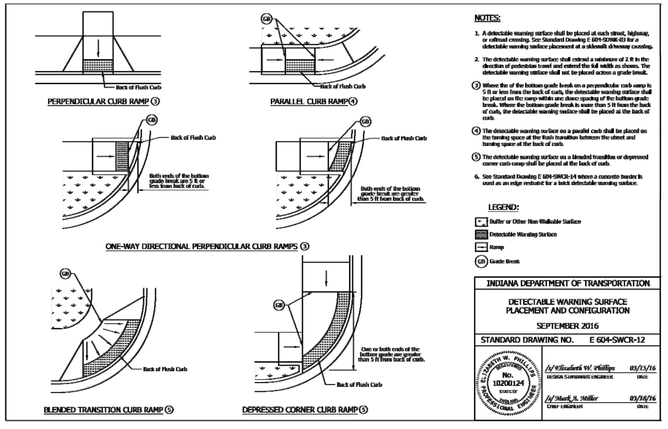
INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP COMPONENT DETAILS

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-06

No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/15/16 DATE
	/s/Mark A. Miller — CHIEF ENGINEER	03/16/16 DATE



NOTES:

1. A detectable warning surface shall be placed at each street, highway, or railroad crossing. See Standard Drawing E 604-SDWK-03 for a detectable warning surface placement at a sidewalk driveway crossing.
2. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
3. Where the of the bottom grade break on a perpendicular curb ramp is 5 ft or less from the back of curb, the detectable warning surface shall be placed on the ramp within one shoe spacing of the bottom grade break. Where the bottom grade break is more than 5 ft from the back of curb, the detectable warning surface shall be placed at the back of curb.
4. The detectable warning surface on a parallel curb shall be placed on the turning space at the flush transition between the street and turning space at the back of curb.
5. The detectable warning surface on a blended transition or depressed corner curb ramp shall be placed at the back of curb.
6. See Standard Drawing E 604-SWCR-14 where a concrete border is used as an edge restraint for a brick detectable warning surface.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Detectable Warning Surface
- Ramp
- Grade Break

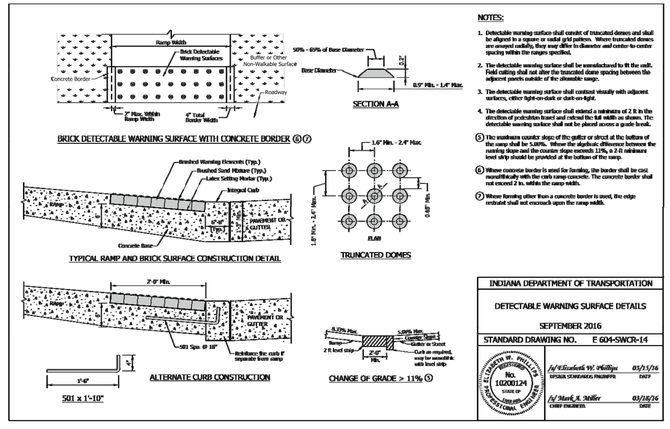
INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE PLACEMENT AND CONFIGURATION

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-12

No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/15/16 DATE
	/s/Mark A. Miller — CHIEF ENGINEER	03/16/16 DATE



NOTES:

1. Detectable warning surface shall consist of truncated domes and shall be aligned in a square or radial grid pattern. Where truncated domes are accepted radially, they may differ in diameter and center-to-center spacing within the ranges specified.
2. The detectable warning surface shall be manufactured to fit the unit. Field cutting shall not alter the truncated dome spacing between the adjacent panels outside of the alternate range.
3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
5. The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. Where the algebraic difference between the running slope and the counter slope exceeds 11%, a 2 ft minimum level strip should be provided at the bottom of the ramp.
6. Where concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not exceed 2 in. within the ramp width.
7. Where forming other than a concrete border is used, the edge restraint shall not encroach upon the ramp width.

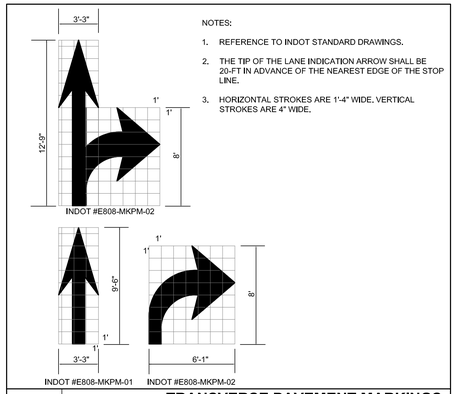
INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE DETAILS

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-14

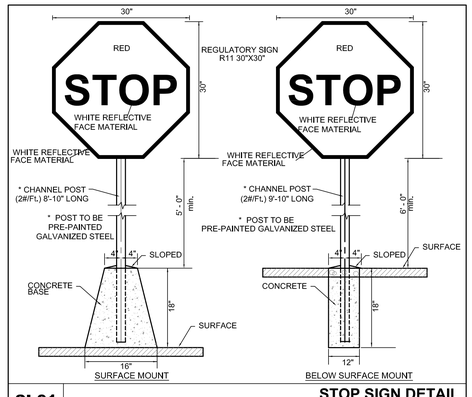
No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/Elizabeth W. Phillips — DESIGN STANDARDS ENGINEER	03/15/16 DATE
	/s/Mark A. Miller — CHIEF ENGINEER	03/16/16 DATE



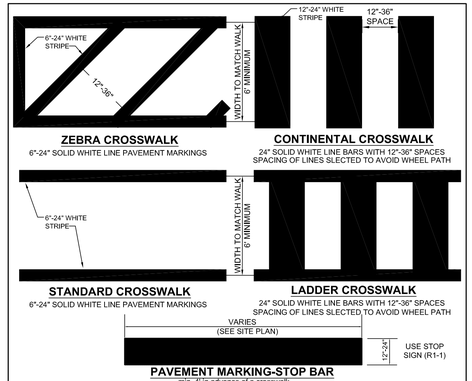
NOTES:

1. REFERENCE TO INDOT STANDARD DRAWINGS.
2. THE TIP OF THE LANE INDICATION ARROW SHALL BE 20-FT IN ADVANCE OF THE NEAREST EDGE OF THE STOP LINE.
3. HORIZONTAL STROKES ARE 1'-4" WIDE. VERTICAL STROKES ARE 4" WIDE.

8 TRANSVERSE PAVEMENT MARKINGS
SCALE: NONE



SI-01 STOP SIGN DETAIL
SCALE: NONE



PA-7A CROSSWALK STRIPING DETAILS
SCALE: NONE

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CONSTRUCTION PLANS FOR
HSE NEW ELEMENTARY #13
12500 CYNTHEANNE ROAD
FISHERS, INDIANA

Scope Drawings:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

Revisions:
1. ADDENDUM #1 10/26/17

Issue Date	Drawn By	Checked By
10/13/2017	JES	KKC

Drawing Title:
ENTRANCE PLAN DETAILS

Certified By:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

Drawing Number:
C202

Project Number:
17026L

Z:\2017\17026L - HSE CYNTHEANNE ROAD ELEMENTARY\DWGS\C201 - ENTRANCE PLAN & MOTJDWG posted by KAREN COLLINS on 10/25/2017 4:53:51 PM last saved by KCOLLINS on 10/13/2017 11:21:50 AM
Xrefs: X36X24E.DWG & 42X36LDWG & 17026L - TOPO BASE.DWG & 17026L - SITE BASE.DWG & 17026L - LA BASE.DWG