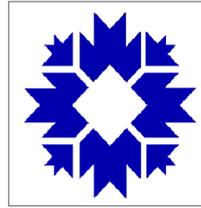


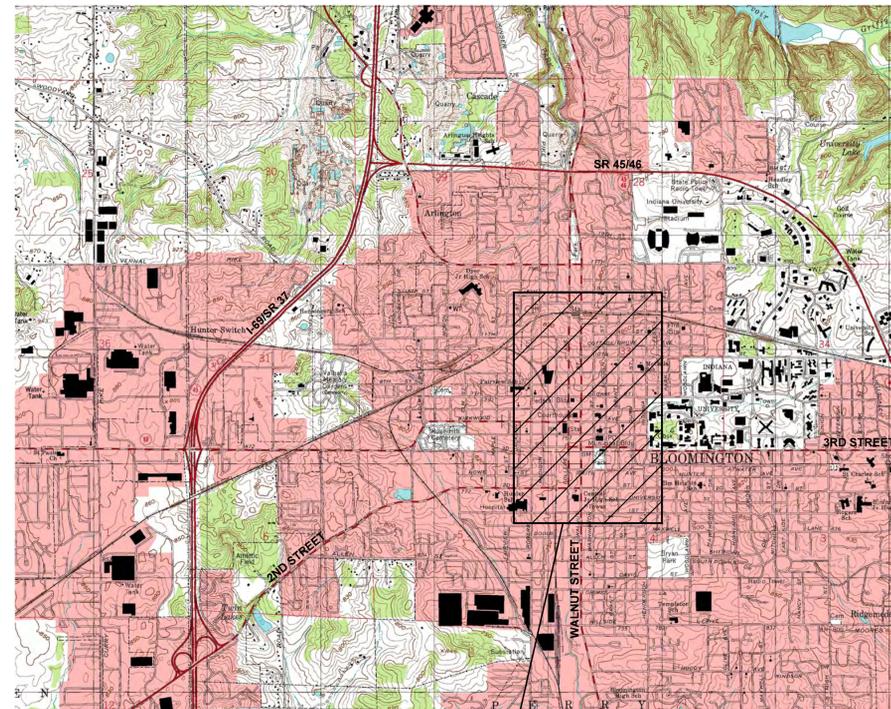
DEPARTMENT OF PLANNING AND TRANSPORTATION



DOWNTOWN CURB RAMP IMPROVEMENTS, PHASE II

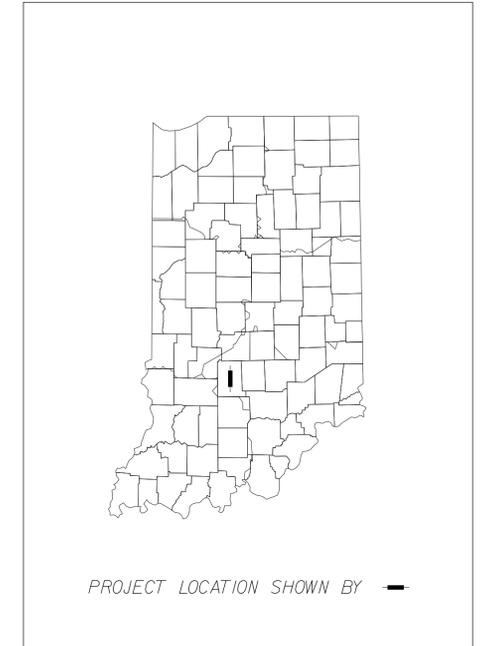
Gross Length: N/A
Net Length: N/A

Maximum Grade: N/A



PROJECT AREA

PROJECT LOCATION MAP
CITY OF BLOOMINGTON, MONROE COUNTY

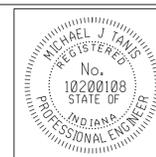


INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS CURRENT EDITION
TO BE USED WITH THESE PLANS AND ANY
SUPPLEMENTS THEREOF

PREPARED BY:



1321 Laurel Oak Drive
Avon, Indiana 46123
(317)370-9672



PLANS PREPARED BY:

CERTIFIED BY:

APPROVED FOR LETTING:



Michael J. Jams

(317) 370-9672
PHONE NUMBER

2-15-2019
DATE

DATE

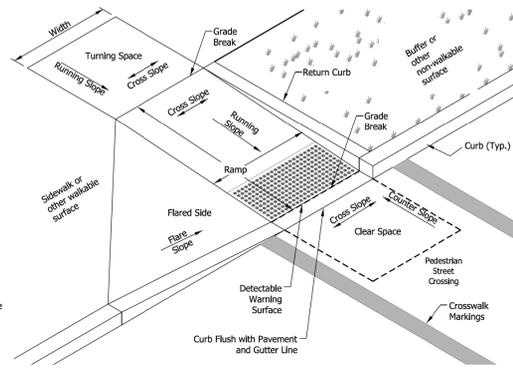
SHEETS	
1	of 16
PROJECT	

DOWNTOWN CURB RAMP IMPROVEMENTS, PHASE II

INDEX	
SHEET NO.	SUBJECT
1	Curb Ramp Drawing Index and General Notes
2-3	Perpendicular Curb Ramp Typical Placement
4	Perpendicular Curb Ramp Component Details
5	One-Way-Directional Perpendicular Curb Ramp Typical Placement
6	One-Way-Directional Perpendicular Curb Ramp Component Details
7	Parallel Curb Ramps Typical Placement
8	Parallel Curb Ramp Component Details
9	Blended Transition Curb Ramp, Depressed Curb Ramp and Diagonal Curb Ramp Typical Placement
10	Blended Transition Curb Ramp Component Details
11	Median Cut-Through and Median Perpendicular Curb Ramp Typical Placement
12-13	Detectable Warning Surface Placement and Configuration
14	Detectable Warning Surface Details

GENERAL NOTES:

- All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
- Ramp or Blended Transition. A ramp or blended transition shall be used to lower or raise the sidewalk to connect with the street or highway.
- Turning Space. A turning space shall be provided at the top of a perpendicular ramp, bottom of a parallel ramp, or where the pedestrian travel requires a change in direction. A common turning space may be shared by adjacent ramps. The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk by a curb, retaining wall, building, or feature over 2 inches in height, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
- Flared Side. A flared side shall be used adjacent to a walkable surface. A flared side may be used adjacent to a non-walkable surface. A flared side shall have a maximum slope of 10.00% measured parallel to the back of the curb.
- Return Curb. A return curb is placed perpendicular to the roadway curb. A return curb may be used adjacent to a non-walkable surface. A return curb shall not be used adjacent to a walkable surface. The return curb may be omitted where the non-walkable surface is flared and the curb adjacent to the roadway is tapered to meet the flush curb at the bottom of the ramp.
- Clear Space. A clear space shall be provided beyond the bottom grade break of a curb ramp wholly contained within the crosswalk and wholly outside the parallel vehicular travel path. The clear space shall have a minimum clear dimension of 4 ft x 4 ft.
- Detectable Warning Surface. A detectable warning surface shall consist of truncated domes and be placed at each street, highway, or railroad crossing. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.
- Running Slope. The running slope of a ramp, blended transition, or turning space shall be measured parallel to the direction of pedestrian travel.
 - A running slope of 2.00% or less is considered level.
 - A ramp shall have a maximum running slope of 8.33% but shall not require a ramp length to exceed 15 ft.
 - A blended transition shall have a maximum running slope of 5.00%.
 - A turning space shall have a maximum running slope of 2.00%.
- Width. Unless otherwise noted, minimum width of a ramp, blended transition, or turning space, excluding flared sides or return curb, shall be 4 ft.
- Grade Break. A grade break at the top and bottom of a ramp, blended transition, or turning space shall be perpendicular to the running slope. Grade breaks shall not be within the ramp, blended transition, turning space, or detectable warning surface. Grade breaks shall be flush. Vertical discontinuities shall not be greater than 1/2 in. Where a discontinuity is greater than 1/4 in., the surface shall be beveled with a slope not steeper than 1V:2H.
- Cross Slope Exceptions. The cross slope of a ramp, blended transition, or turning space shall be measured perpendicular to the direction of pedestrian travel.
 - The maximum cross slope at a pedestrian street crossing without yield or stop control shall be 5.00%.
 - The maximum cross slope at a pedestrian street crossing with yield or stop control shall be 2.00%.
 - The maximum cross slope at a midblock crossing shall be the established grade of the adjacent roadway.
- Counter Slope. A counter slope is the cross slope of the gutter or street adjacent the running slope of the ramp, blended transition, or turning space. See Standard Drawing E 604-SWCR-14 for counter slope details.
- Objects such as a utility cover, vault frame, and grating shall be placed outside the curb ramp.
- Curb ramps shall be placed within the marked crosswalk area.
- Drainage inlets should be located uphill from a curb ramp to prevent ponding in the path of pedestrian travel.



TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION

CURB RAMP DRAWING INDEX AND GENERAL NOTES

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-01

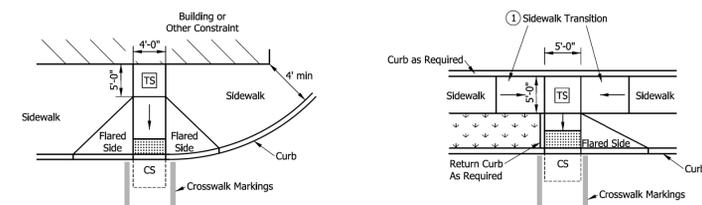
REGISTERED PROFESSIONAL ENGINEER

No. 10200124

STATE OF INDIANA

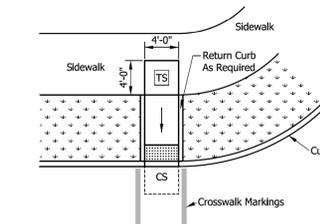
/s/ Elizabeth W. Phillips 03/20/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



PERPENDICULAR CURB RAMP ADJACENT WALKABLE SURFACE

TIERED PERPENDICULAR CURB RAMP



PERPENDICULAR CURB RAMP ADJACENT NON-WALKABLE SURFACE

NOTES:

- Where insufficient width between the curb and back of sidewalk prevent a standard perpendicular curb ramp running slope, a sidewalk transition may be used to lower the sidewalk grade. The sidewalk transition running slope shall not exceed 8.33%. See Standard Drawing Series E 604-SWCK for sidewalk details.
- The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface
- Turning Space
- Clear Space

INDIANA DEPARTMENT OF TRANSPORTATION

PERPENDICULAR CURB RAMP TYPICAL PLACEMENT

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-02

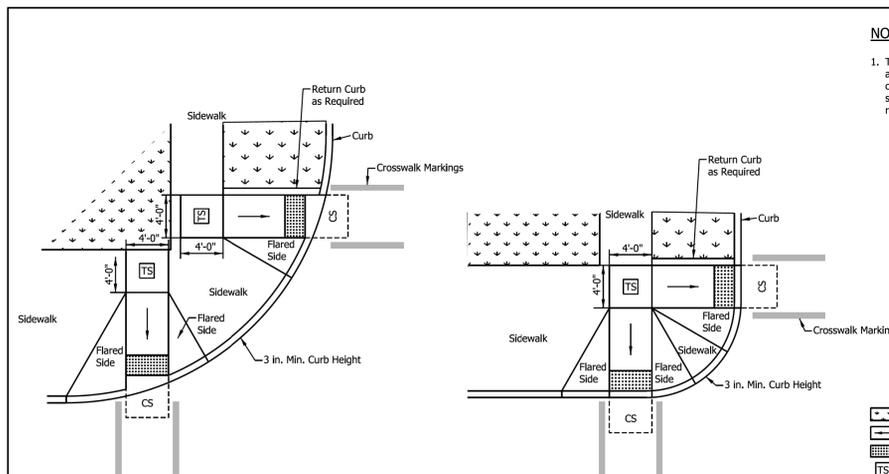
REGISTERED PROFESSIONAL ENGINEER

No. 10200124

STATE OF INDIANA

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



PAIRED PERPENDICULAR CURB RAMP AT LARGE RADIUS

PAIRED PERPENDICULAR CURB RAMP AT SMALL RADIUS

NOTES:

- The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface
- Turning Space
- Clear Space

INDIANA DEPARTMENT OF TRANSPORTATION

PAIRED PERPENDICULAR CURB RAMP TYPICAL PLACEMENT

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-03

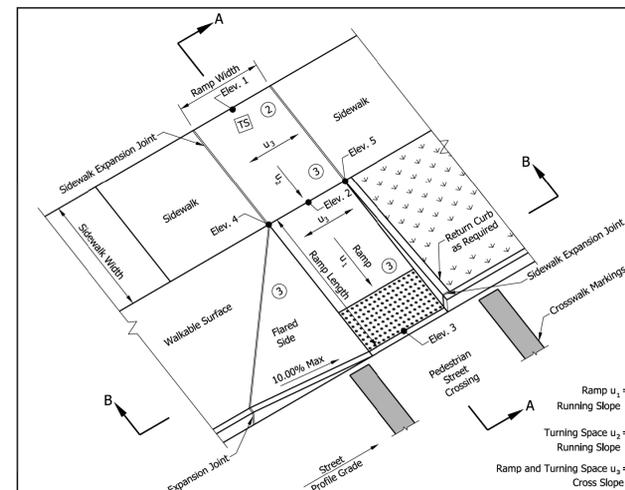
REGISTERED PROFESSIONAL ENGINEER

No. 10200124

STATE OF INDIANA

/s/ Elizabeth W. Phillips 03/15/16
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 03/18/16
CHIEF ENGINEER DATE



Component Slope Equations:

Ramp $u_1 = \frac{\text{Elev. 2} - \text{Elev. 3}}{\text{Ramp Length}} \leq 8.33\%$

Turning Space $u_2 = \frac{\text{Elev. 1} - \text{Elev. 2}}{\text{Sidewalk Width}} \leq 2.00\%$

Ramp and Turning Space $u_3 = \frac{\text{Elev. 4} - \text{Elev. 5}}{\text{Ramp or Turning Space Width}} \leq 2.00\%$

NOTES:

- The bottom edge of the ramp and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope. Where a tiered perpendicular curb ramp is used, a constrained turning space shall have a minimum clear dimension of 5 ft x 5 ft.
- Curb ramp surface shall be coarse broomed transverse to the running slope.
- See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
- See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
- See Standard Drawing E 604-CCS-01 for sidewalk expansion joint details.

LEGEND:

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

INDIANA DEPARTMENT OF TRANSPORTATION

PERPENDICULAR CURB RAMP COMPONENT DETAILS

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-04

REGISTERED PROFESSIONAL ENGINEER

No. 10200124

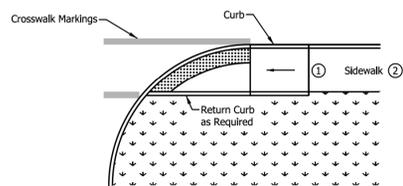
STATE OF INDIANA

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

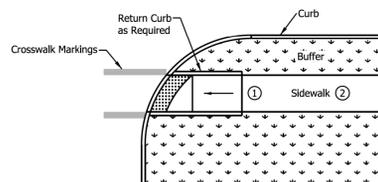
/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE

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RECOMMENDED FOR APPROVAL MICHAEL J. DAVIS REGISTERED PROFESSIONAL ENGINEER No. 10200108 STATE OF INDIANA	2-15-2019 DATE	CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION	HORIZONTAL SCALE N/A	VERTICAL SCALE N/A	DESIGNATION
	DESIGNED: MT DRAWN: SCS CHECKED: BR CHECKED: BR		TYPICAL DETAILS	SURVEY BOOK CONTRACT	SHEETS 3 of 16 PROJECT



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP ADJACENT CURB



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP WITH BUFFER

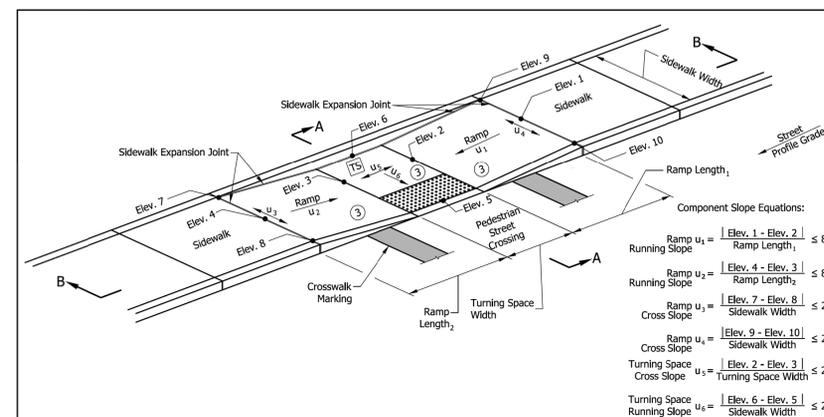
NOTES:

- 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 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred 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	
	<i>/s/ Elizabeth W. Phillips</i> 03/15/16 <small>DESIGN STANDARDS ENGINEER DATE</small>
	<i>/s/ Mark A. Miller</i> 03/18/16 <small>CHIEF ENGINEER DATE</small>



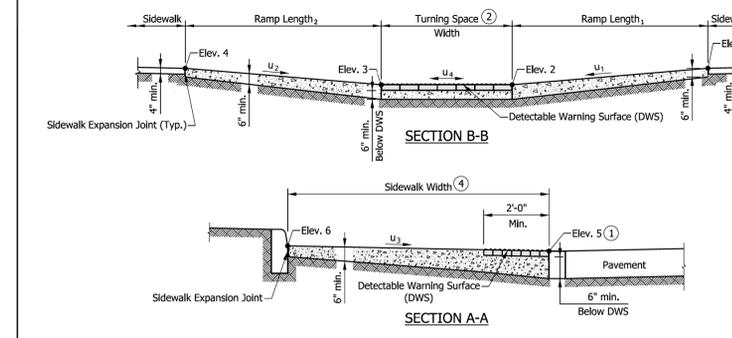
NOTES:

- ① The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- ② The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
- ③ Curb ramp surface shall be coarse broomed transverse to the running slope.
- ④ Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.
- ⑤ See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
6. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
7. See Standard Drawing E 604-CCS-01 for sidewalk expansion joint details.

LEGEND:

- ▬ Ramp
- ▨ Detectable Warning Surface
- ⊞ Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION	
PARALLEL CURB RAMP COMPONENT DETAILS SEPTEMBER 2018	
STANDARD DRAWING NO. E 604-SWCR-08	
	<i>/s/ Elizabeth W. Phillips</i> 03/29/18 <small>DESIGN STANDARDS ENGINEER DATE</small>
	<i>/s/ John Leckie</i> 04/25/18 <small>CHIEF ENGINEER DATE</small>



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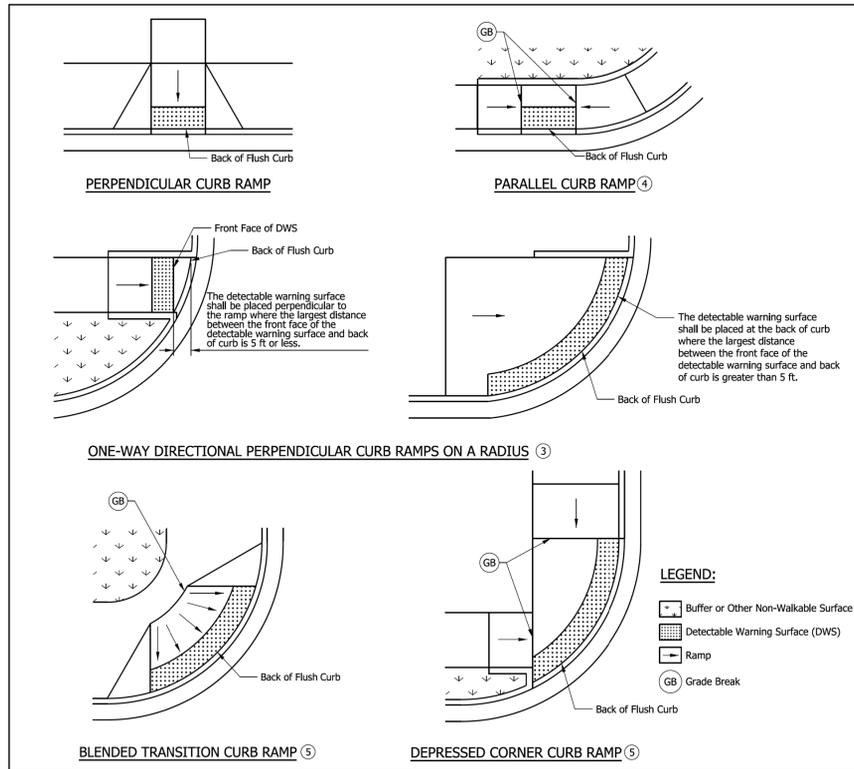


RECOMMENDED FOR APPROVAL	<i>Michael J. Tavis</i>	2-15-2019
	DESIGN ENGINEER	DATE
DESIGNED:	MT	DRAWN: SCS
CHECKED:	BR	CHECKED: BR

**CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION**

TYPICAL DETAILS

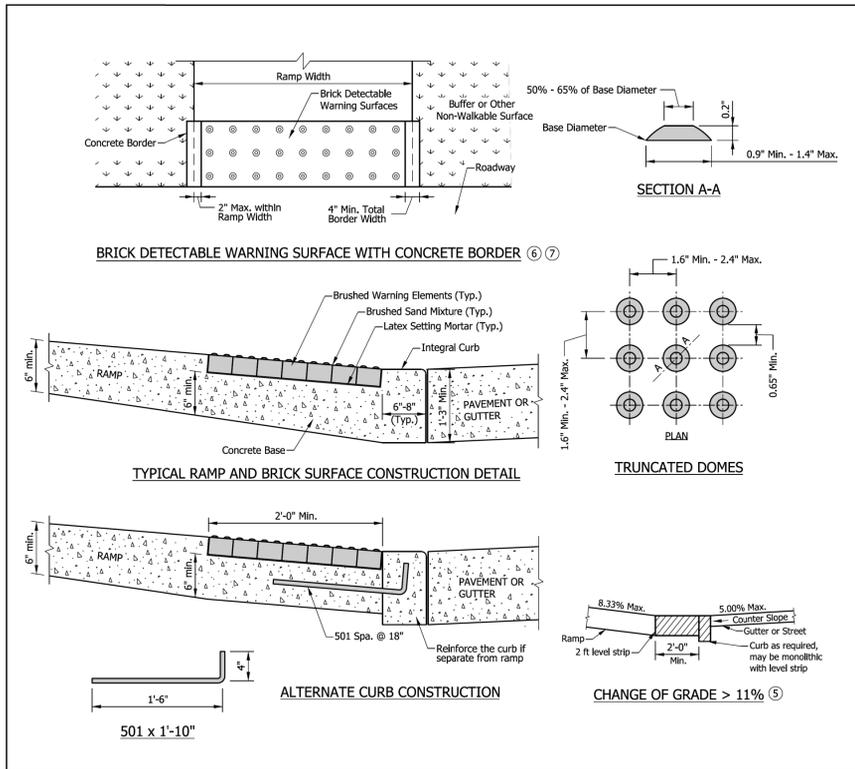
HORIZONTAL SCALE	N/A
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	4 of 16
	PROJECT



NOTES:

- 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.
- 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.
- Where the distance from the face of the detectable warning surface is 5 ft or less from the back of curb, the detectable warning surface shall be placed perpendicular to the ramp. Where the distance from the face of the detectable warning surface is more than 5 ft from the back of curb, the detectable warning surface shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.
- The detectable warning surface on a parallel curb ramp shall be placed on the turning space at the flush transition between the street and turning space at the back of curb.
- The detectable warning surface on a blended transition or depressed corner shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.
- See Standard Drawing E 604-SWCR-14 for detectable warning surface details.

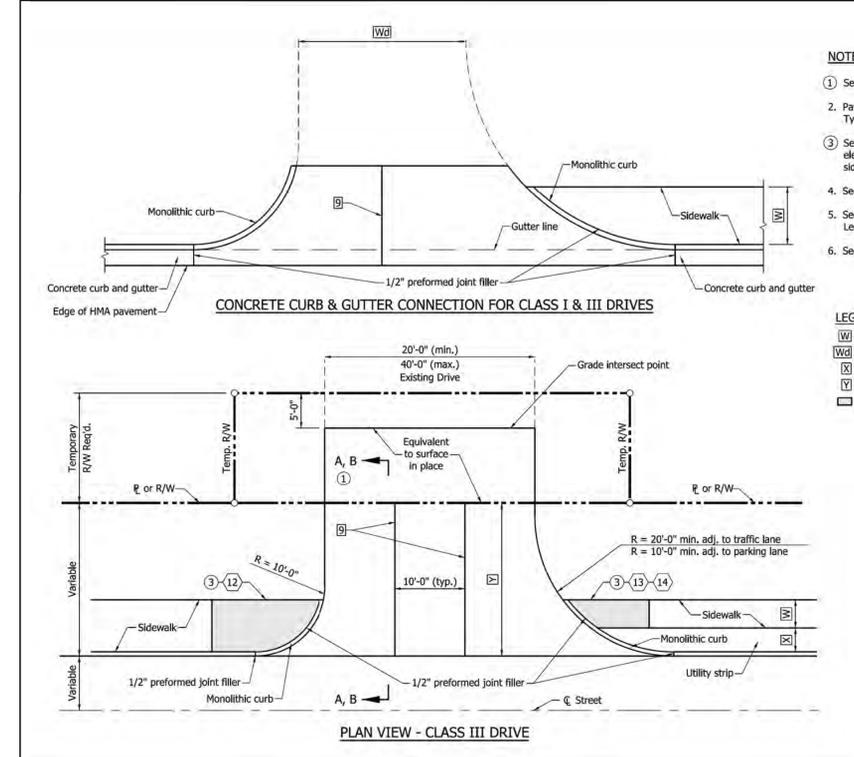
INDIANA DEPARTMENT OF TRANSPORTATION		
DETECTABLE WARNING SURFACE PLACEMENT AND CONFIGURATION		
SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-12		
	/s/ Elizabeth W. Phillips	03/29/18
	DESIGN STANDARDS ENGINEER	DATE
	/s/ John Leckie	04/25/18
	CHIEF ENGINEER	DATE



NOTES:

- Detectable warning surface shall consist of truncated domes. Domes shall be aligned in a square or radial grid pattern with diameter and center-to-center spacing within the ranges specified.
- The detectable warning surface may be field cut. Truncated dome spacing between adjacent panels shall be within the ranges specified.
- The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
- 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.
- 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.
- Where a concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not reduce the ramp width by more than 2 in. on each side.
- 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 2018		
STANDARD DRAWING NO. E 604-SWCR-14		
	/s/ Elizabeth W. Phillips	03/29/18
	DESIGN STANDARDS ENGINEER	DATE
	/s/ John Leckie	04/25/18
	CHIEF ENGINEER	DATE



NOTES:

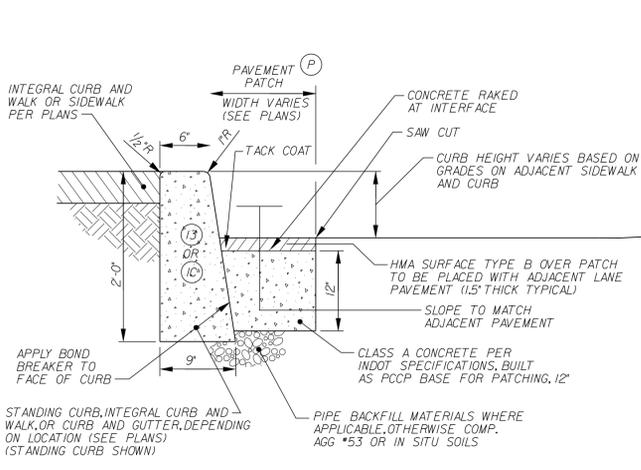
- See Standard Drawing E 610-DRIV-08 for Section A-A, and Section B-B.
- Pavement shall be PCCP for Approaches, 9 in., on subgrade treatment Type IIIA.
- See Standard Drawings E 604-SDWK-01 or E 604-SDWK-02 for sidewalk elevation transition details, or Standard Drawing E 604-SWCR-09 for sidewalk curb ramp details if the drive is signalized.
- See Standard Drawing E 610-DRIV-07 for joint placement details.
- See Standard Drawing E 610-DRIV-13 for General Notes and additional Legend.
- See Standard Drawing 503-CCP-02 for longitudinal joint details.

LEGEND

- Width of sidewalk
- Driveway width
- Distance between back face of curb and sidewalk
- Distance from front face of curb to ℓ or R/W
- Sidewalk elevation transition

INDIANA DEPARTMENT OF TRANSPORTATION		
CLASS III DRIVE		
SEPTEMBER 2012		
STANDARD DRAWING NO. E 610-DRIV-03		
	/s/ Richard L. VanCleave	09/04/12
	SUPERVISOR, ROADWAY STANDARDS	DATE
	/s/ Mark A. Miller	09/04/12
	CHIEF ENGINEER	DATE

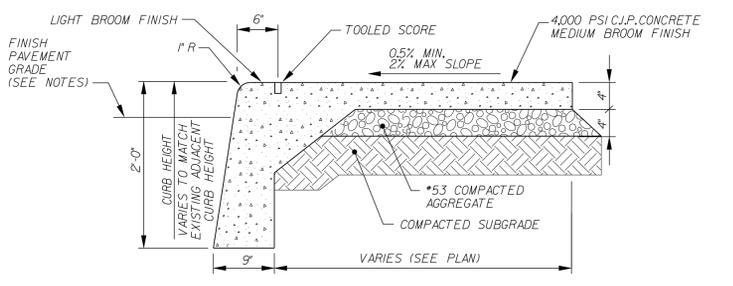
NOTE: CONTRACTOR SHALL PROVIDE SUBSTITUTION OF CAST STEEL PLATES IN LIEU OF THE BRICKS SHOWN HERE. OTHER ELEMENTS OF THIS DETAIL APPLY.



NOTES:

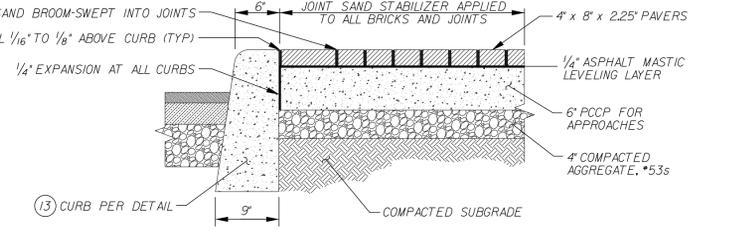
- AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
- REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
- PAVEMENT PATCHING MAY NOT BE REQUIRED IF EXISTING PAVEMENT CAN BE REMOVED TO A CLEAN AND STRAIGHT EDGE AT FRONT OF PROPOSED CURB OR GUTTER. CITY APPROVAL IS REQUIRED.
- PAVEMENT PATCHING REQUIRED WHEREVER EXISTING PAVEMENT MUST BE REPAIRED OR REPLACED NEXT TO REQUIRED CURB, DRIVE OR SIDEWALK WORK.

INDIANA DEPARTMENT OF TRANSPORTATION		
CLASS III DRIVE		
SEPTEMBER 2012		
STANDARD DRAWING NO. E 610-DRIV-03		
	/s/ Richard L. VanCleave	09/04/12
	SUPERVISOR, ROADWAY STANDARDS	DATE
	/s/ Mark A. Miller	09/04/12
	CHIEF ENGINEER	DATE



NOTES:

- HAND FINISH CURB TO A 6" DEPTH (TYP.)
- THIS DETAIL MAY BE USED WHERE NEW CONCRETE WALKS ARE NEXT TO NEW CURBS.
- USE IN CONJUNCTION WITH PAVEMENT PATCH DETAIL.



NOTES:

- AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
- REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
- PAVEMENT PATCHING MAY NOT BE REQUIRED IF EXISTING PAVEMENT CAN BE REMOVED TO A CLEAN AND STRAIGHT EDGE AT FRONT OF PROPOSED CURB OR GUTTER. CITY APPROVAL IS REQUIRED.
- PAVEMENT PATCHING REQUIRED WHEREVER EXISTING PAVEMENT MUST BE REPAIRED OR REPLACED NEXT TO REQUIRED CURB, DRIVE OR SIDEWALK WORK.

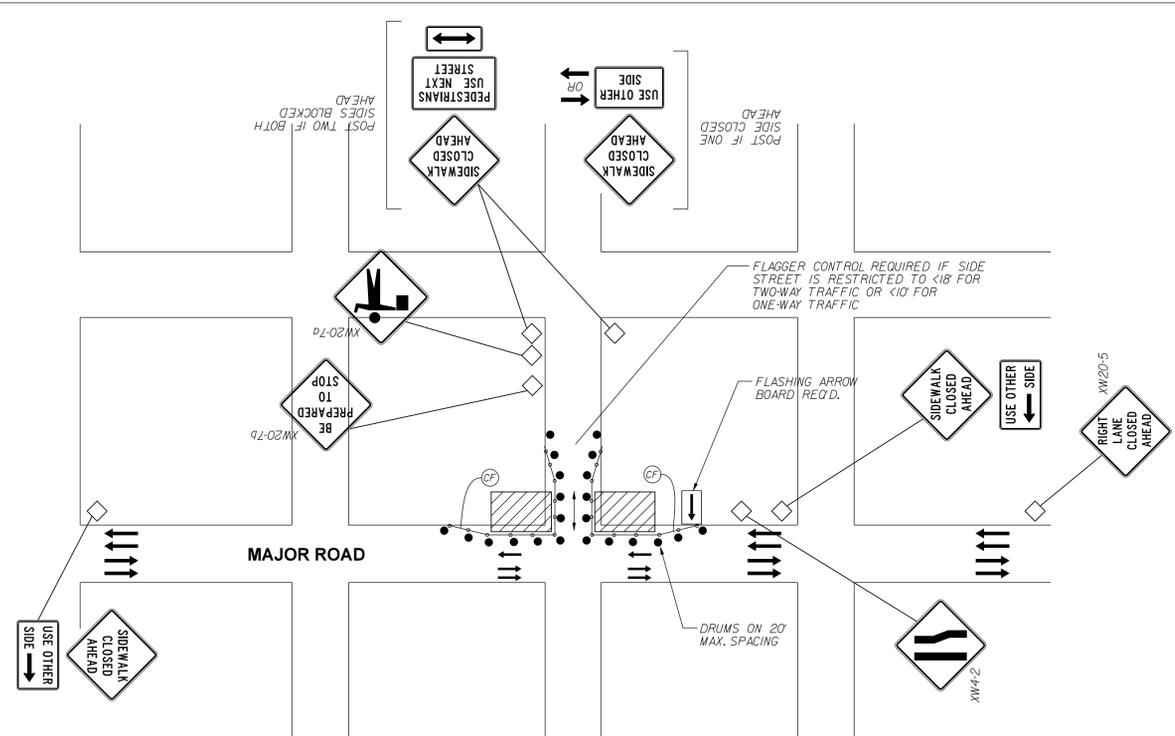
THIS DETAIL ONLY PROVIDED IN THE EVENT THAT THE CONTRACTOR DISTURBS AN AN AREA THAT IS CURRENTLY AND IS INTENDED TO REMAIN BRICK. NO NEW BRICK PAVEMENT IS OTHERWISE REQUIRED.

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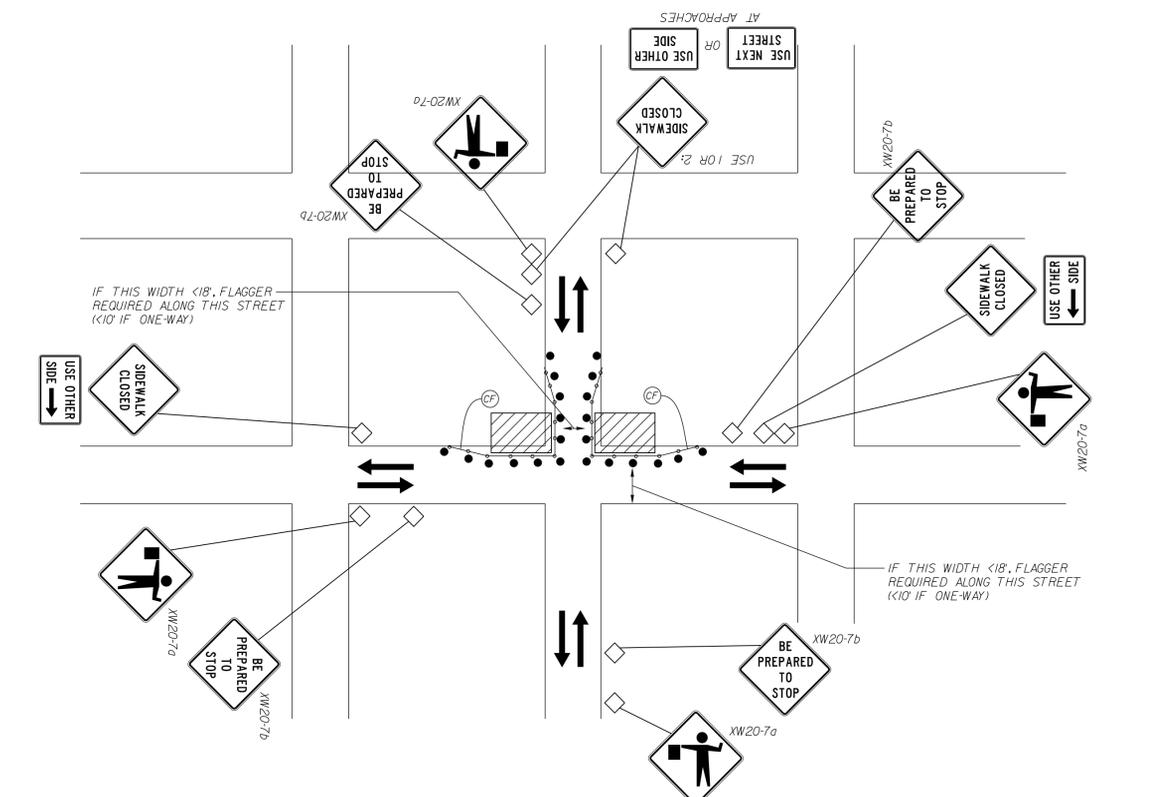
CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

TYPICAL DETAILS

HORIZONTAL SCALE	N/A
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	PROJECT



MULTI-LANE ROAD EXAMPLE



TYPICAL TWO-CORNER WORKZONE EXAMPLE
 (IF A ONE-WAY STREET IS INVOLVED, THE DOWNSTREAM VEHICULAR SIGNS MAY BE OMITTED.)

WORK SEQUENCING / REQUIREMENTS:

CONTRACTOR MAY WORK AS MANY INTERSECTIONS AS THEY WISH AT A TIME, BUT NO MORE THAN 2 CORNERS MAY BE WORKED AT A TIME AT EACH SITE, AND THESE ADJACENT CORNERS MUST BE ON THE SAME SIDE OF THE DOMINANT STREET.

IF ADJACENT INTERSECTIONS ALONG WASHINGTON OR 6TH ARE WORKED AT THE SAME TIME, THEN THE WORKZONES MUST BE ON THE SAME SIDE OF THESE STREETS AT EACH INTERSECTION.

ROAD RESTRICTION OR CLOSURE REQUIREMENTS:

- NO FULL ROAD CLOSURES WILL BE ALLOWED FOR THIS WORK.
- ALL ROAD RESTRICTIONS SHALL ONLY BE PERFORMED AFTER PERMITTING AND NOTIFICATION REQUIREMENTS HAVE BEEN MET.
- WHERE PUBLICLY-USED PARKING IS TO BE RESTRICTED OR BLOCKED TO PROVIDE CONTRACTOR STAGING OR WORKING SPACE, THE CONTRACTOR SHALL COORDINATE THROUGH THE CITY TO HAVE THESE SPACES POSTED FOR NO PARKING ON (SPECIFIC DATES) A MINIMUM 5 BUSINESS DAYS IN ADVANCE OF SUCH CLOSURE.
- AS A GENERAL RULE, ROAD RESTRICTIONS SHALL BE LIFTED DAILY AS WORK IS COMPLETED FOR THE DAY, RETURNING THE ROAD TO NORMAL VEHICULAR USE EACH DAY. PARKING LANES MAY BE KEPT CLOSED BUT ONLY WITH CITY APPROVAL IN ADVANCE, AND ONLY FOR THE TIME NECESSARY TO SUPPORT WORK IN PROGRESS AND EXPECTED TO RESUME THE FOLLOWING DAY.
- CONTRACTOR MUST SUPPORT TRAFFIC FLOW, EVEN IF WITH FLAGGERS, TO THE MAXIMUM EXTENT PRACTICABLE. CONTRACTOR MUST ALWAYS BE ABLE TO CLEAR A MINIMUM OF 1 LANE WIDTH TO ACCOMMODATE EMERGENCY VEHICLES.
- ANY MULTI-LANE ROADS MAY NEVER HAVE MORE THAN 1 LANE RESTRICTED. WHERE ANY PORTION OF THESE MULTI-LANE ROADS IS TO BE RESTRICTED, THE RESTRICTION SHALL BE SET TO A FULL LANE, NOT A PARTIAL LANE, AND FULL ADVANCE SIGNAGE SHALL BE USED TO MAXIMIZE SPACE FROM THE WORK TO FLOWING TRAFFIC.
- ROGERS STREET MUST SUPPORT TWO-WAY TRAFFIC, AND MAY NOT BE RESTRICTED TO LESS THAN 18'.
- IN ADDITION TO THE REQUIREMENTS ABOVE, ALL OTHER STREETS SHALL HAVE A MINIMUM 1 LANE WIDTH OPEN TO TRAFFIC, AND ANY TIME THAT THE AVAILABLE WIDTH DROPS BELOW 18' FOR A TWO-WAY STREET, OR 10' FOR A ONE-WAY STREET, FLAGGING OPERATIONS ARE REQUIRED.

PERMITTING & NOTIFICATION REQUIREMENTS:

- CONTRACTOR SHALL MAINTAIN A CURRENT RIGHT OF WAY PERMIT WITH THE CITY THROUGHOUT THE DURATION OF THE WORK. THERE WILL BE NO CHARGE FOR THIS PERMIT, BUT IT MUST BE FILED ALONG WITH ANY REQUIRED INSURANCE AND BONDING INFORMATION.
- CONTRACTOR SHALL PROVIDE TWO BUSINESS DAYS ADVANCE NOTICE OF THE LOCATIONS THEY WILL BE WORKING AND THE ROAD RESTRICTIONS THAT SHOULD BE ANTICIPATED.

GENERAL NOTE:

- ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE LATEST EDITION OF INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTRACTOR SHALL NOT COMPLETELY RESTRICT ACCESS TO A SINGLE PROPERTY.

MAINTENANCE OF PEDESTRIAN ACCESS NOTES:

- CONTRACTOR SHALL ERECT, MAINTAIN AND MODIFY TEMPORARY CONSTRUCTION FENCING AROUND EACH WORKZONE TO DISCOURAGE TRESPASS DURING ALL PHASES. CONSTRUCTION FENCING SHALL BE INCLUDED IN THE COSTS FOR MAINTENANCE OF TRAFFIC.
- CONSTRUCTION FENCING SHALL BE USED IN CONJUNCTION WITH TRAFFIC DRUMS WHERE VEHICULAR TRAFFIC IS ALSO BEING RESTRICTED ALONGSIDE A WORKZONE.
- PEDESTRIAN SIGNAGE MUST BE KEPT UPDATED TO THE CURRENT WORKZONES JUST AS VEHICULAR SIGNAGE IS ADJUSTED TO CURRENT CONDITIONS.

BECAUSE THE CONTRACTOR IS ALLOWED TO WORK AS MANY INTERSECTIONS CONCURRENTLY AS THEY WISH, ALL SIGNAGE, FLAGGERS, DRUMS, BARRICADES, FENCING AND OTHER ITEMS RELATED TO MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC ARE NOT TO BE MEASURED SEPARATELY, BUT INSTEAD WILL BE PAID UNDER THE LUMP SUM FOR MAINTAINING TRAFFIC.

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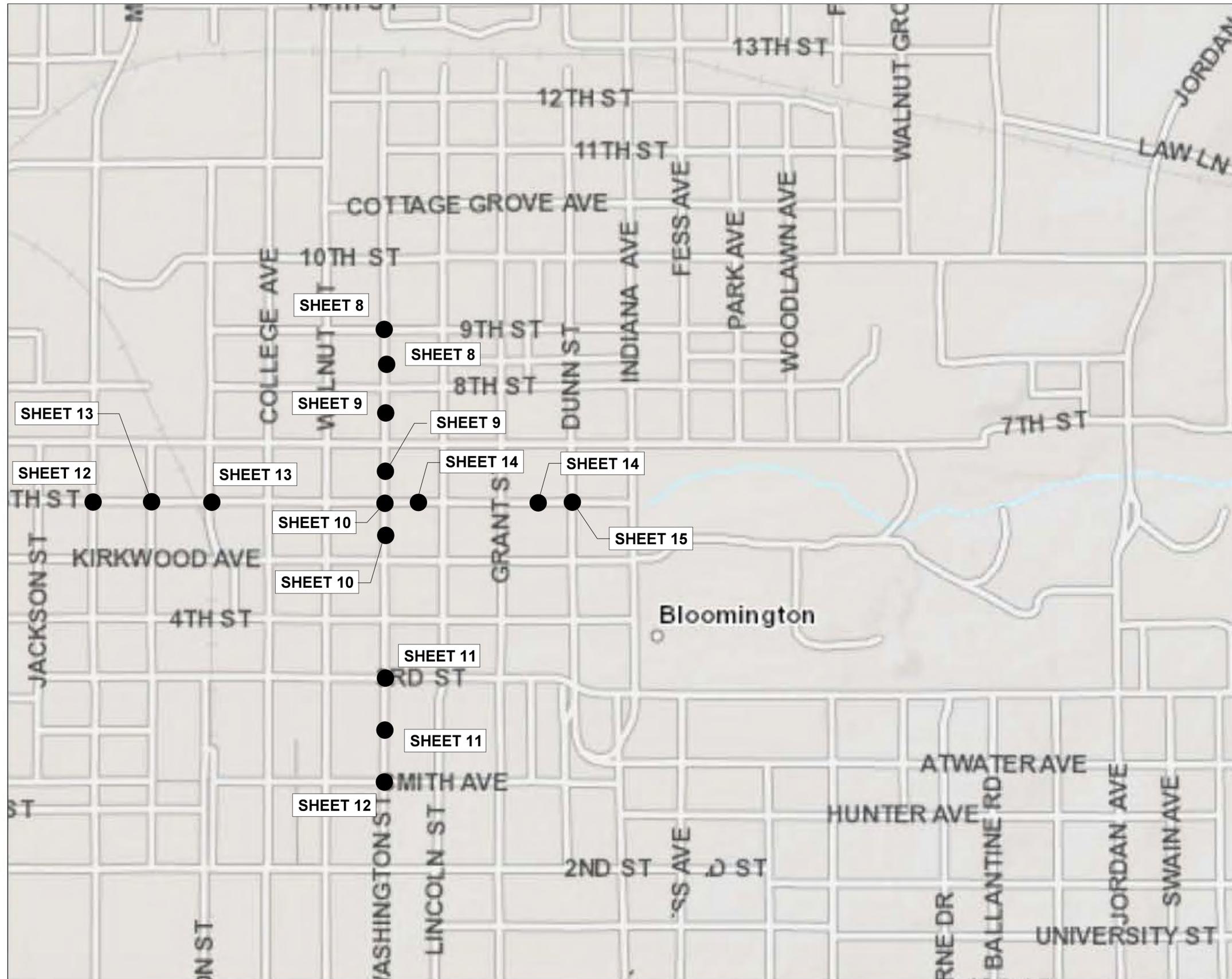
MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS	
	CONSTRUCTION SIGNS (SHAPE PER MUTCD)
	TRAFFIC FLOW DIRECTION
	FLASHING ARROW SIGN
	INLET PROTECTION, CURB
	CONSTRUCTION FENCING, 48" ORANGE ON TEMPORARY POSTS
	WORKZONE



RECOMMENDED FOR APPROVAL	<i>Michael J. Davis</i>	DESIGN ENGINEER	2-15-2019	DATE
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CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION	
MAINTENANCE OF TRAFFIC AND EROSION CONTROL	

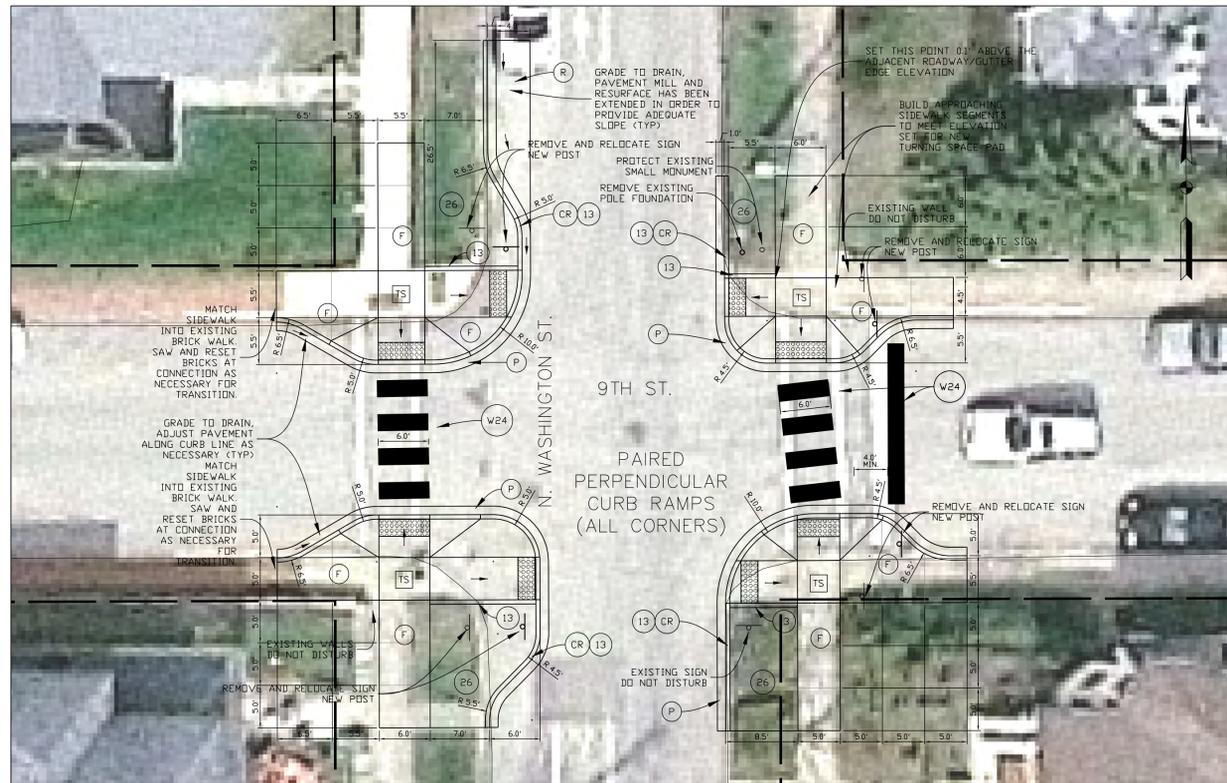
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VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	6 of 16
	PROJECT



 PROJECT SITE
 GUIDE TO SHEET WHERE THIS SITE IS SHOWN

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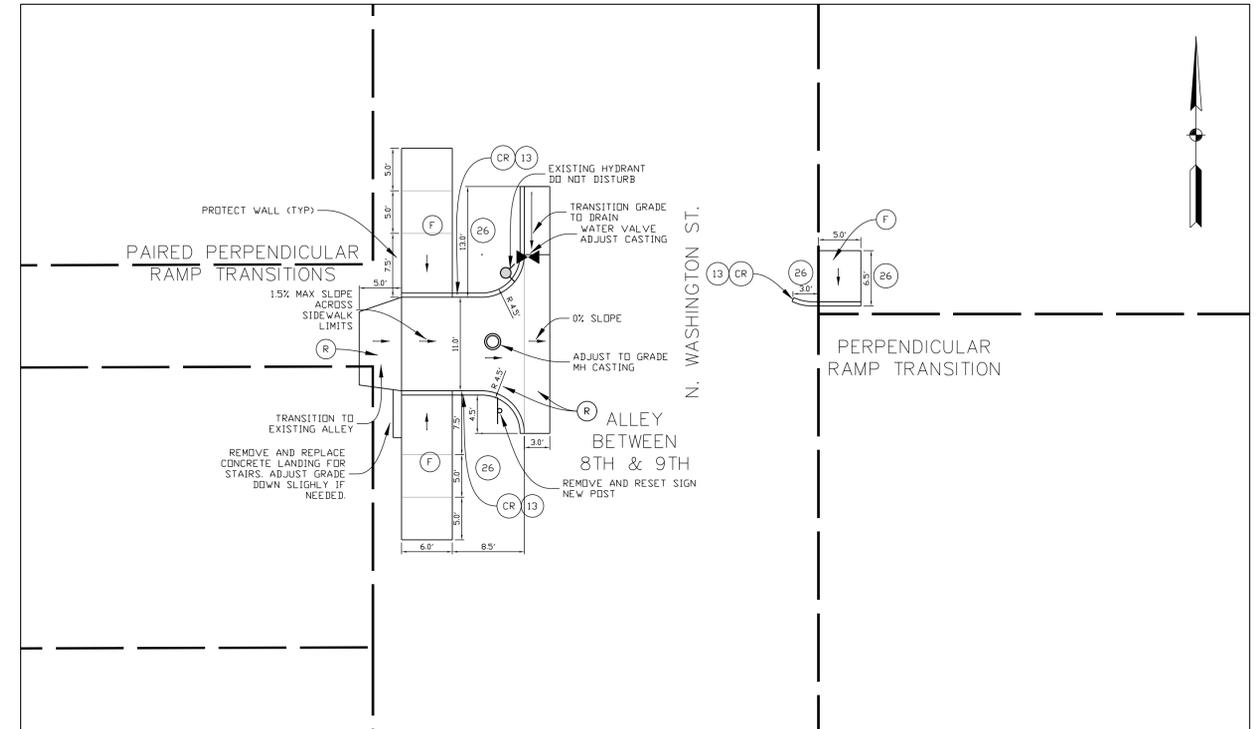
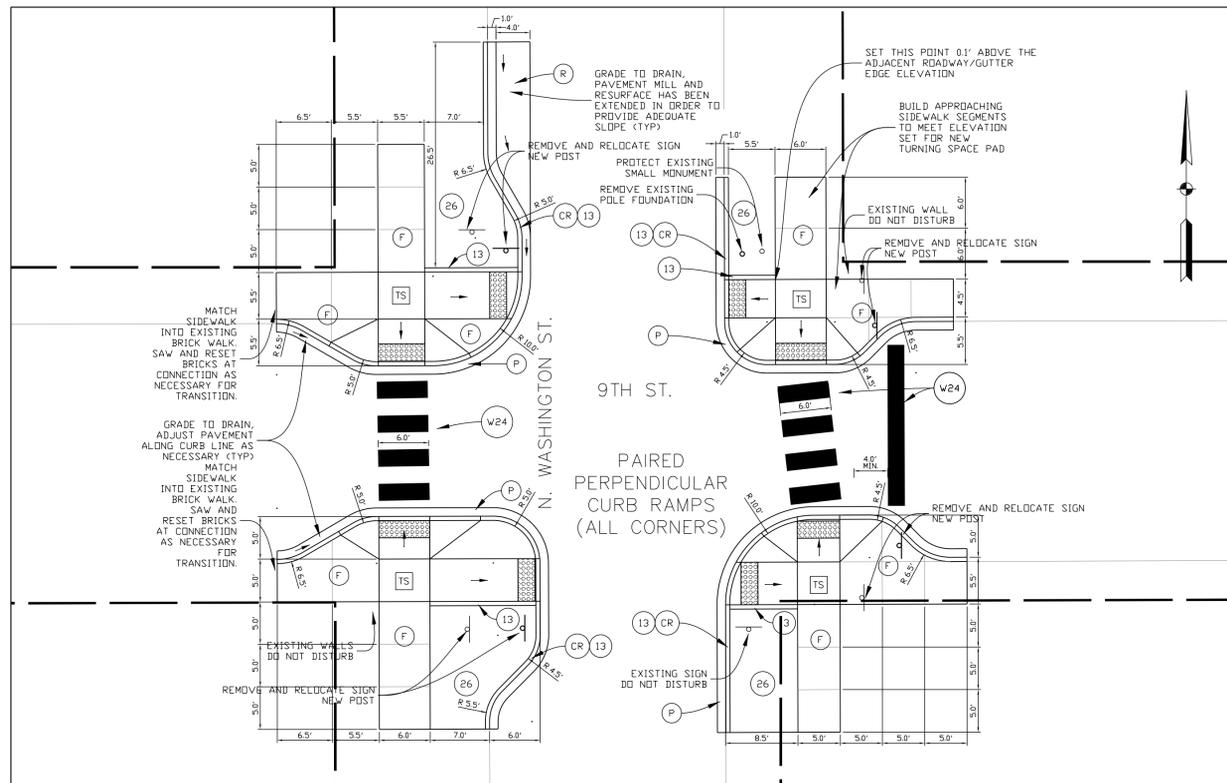
	RECOMMENDED FOR APPROVAL <i>Michael J. Tavis</i> 2-15-2019 DATE DESIGN ENGINEER	CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION OVERALL SITE PLANS INDEX MAP	HORIZONTAL SCALE 1" = 12'-0"	VERTICAL SCALE DESIGNATION
	DESIGNED: MT DRAWN: SCS CHECKED: BR CHECKED: BR		SURVEY BOOK CONTRACT	SHEETS 7 of 16 PROJECT



WASHINGTON STREET and 9TH STREET



WASHINGTON STREET and ALLEY



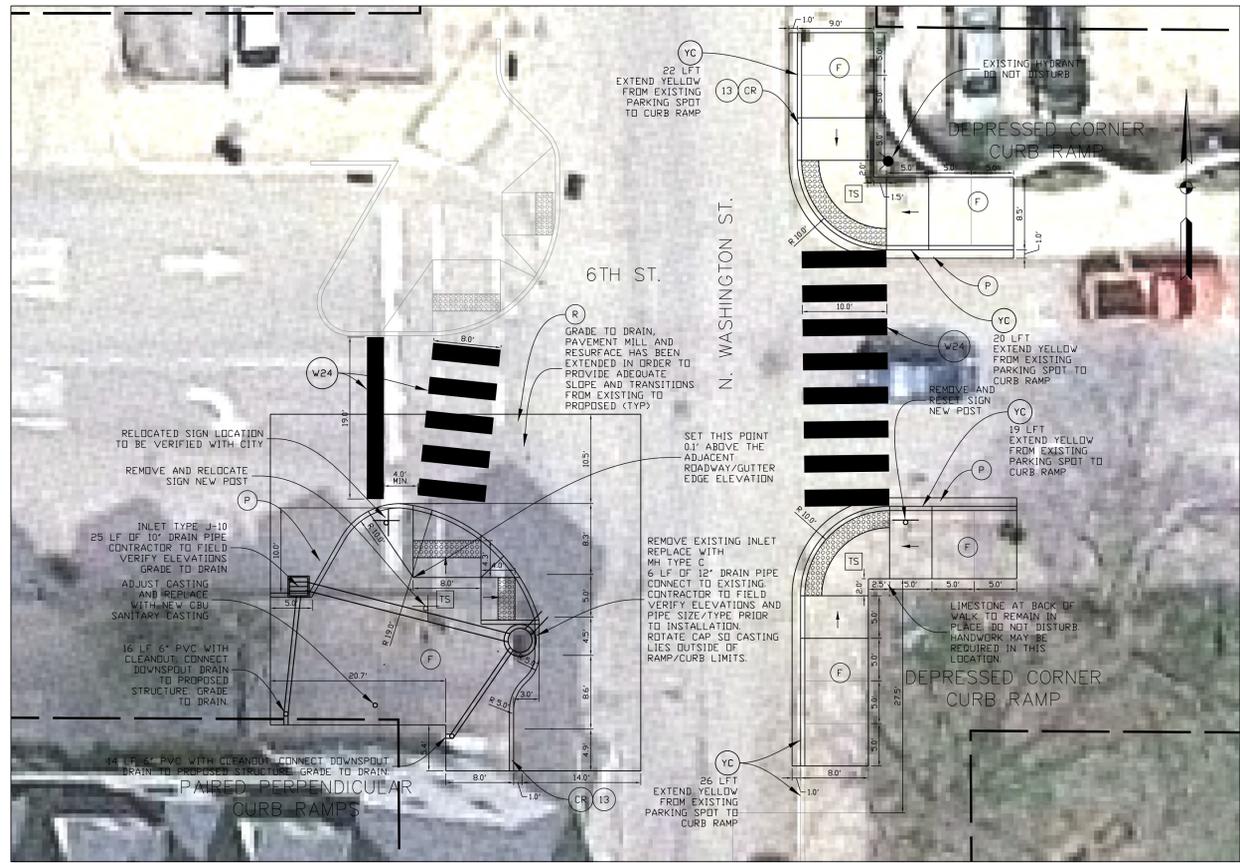
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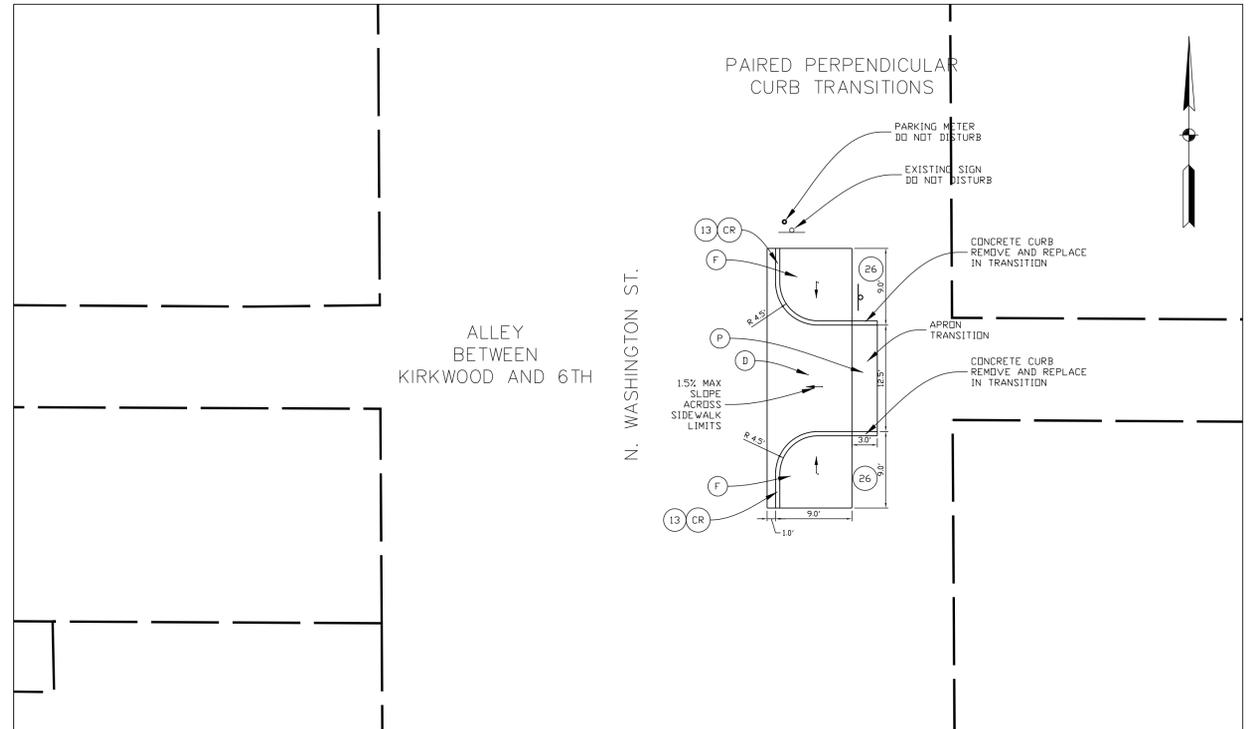
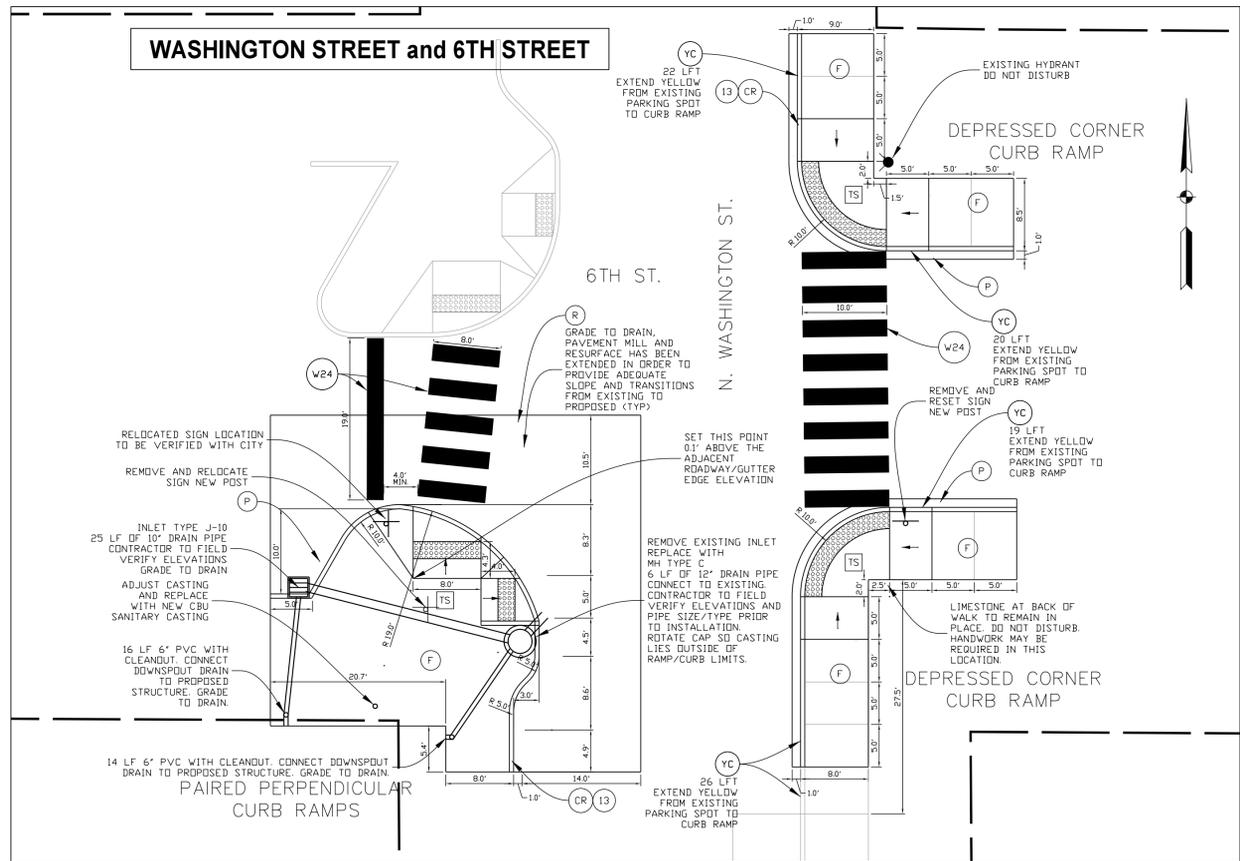
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 DESIGNER: MT DRAWN: SCS
 CHECKED: BR CHECKED: BR

CITY OF BLOOMINGTON
 PLANNING AND TRANSPORTATION
 INTERSECTION SITE PLAN

HORIZONTAL SCALE	1" = 10'-0"
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	8 of 16 PROJECT



WASHINGTON STREET and ALLEY



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RECOMMENDED FOR APPROVAL	<i>Michael J. Davis</i>	2-15-2019
	DESIGN ENGINEER	DATE
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CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

INTERSECTION SITE PLAN

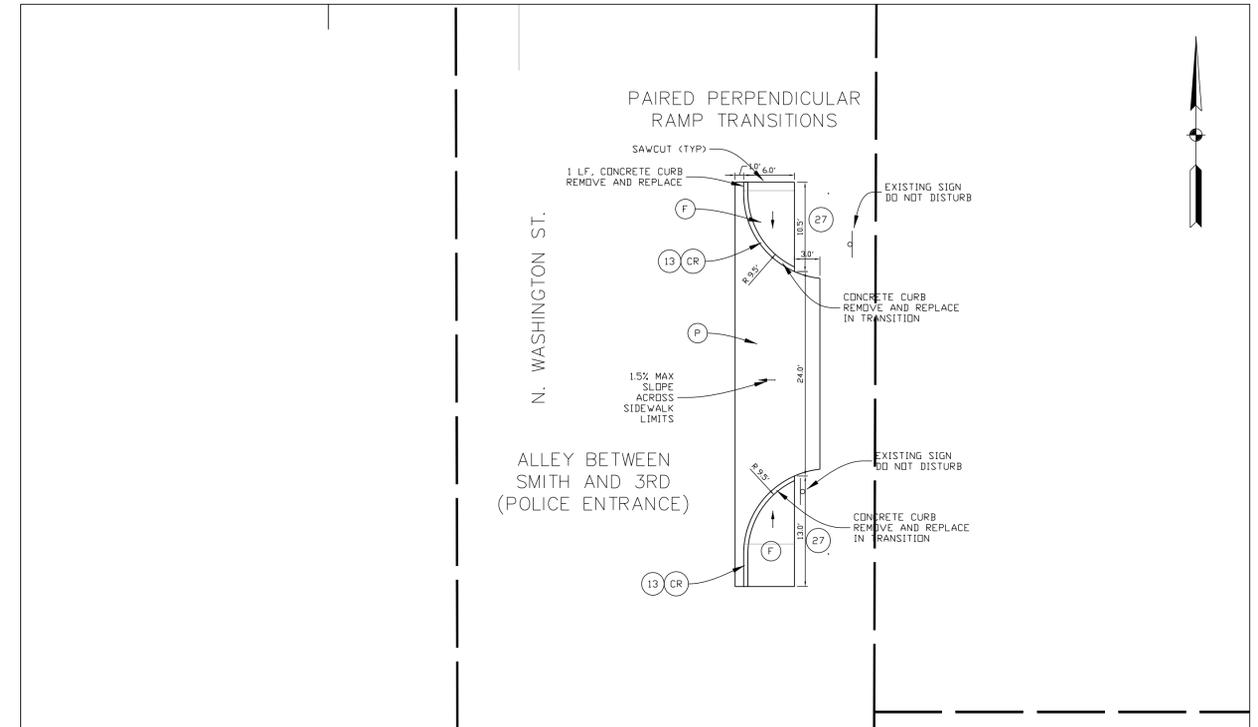
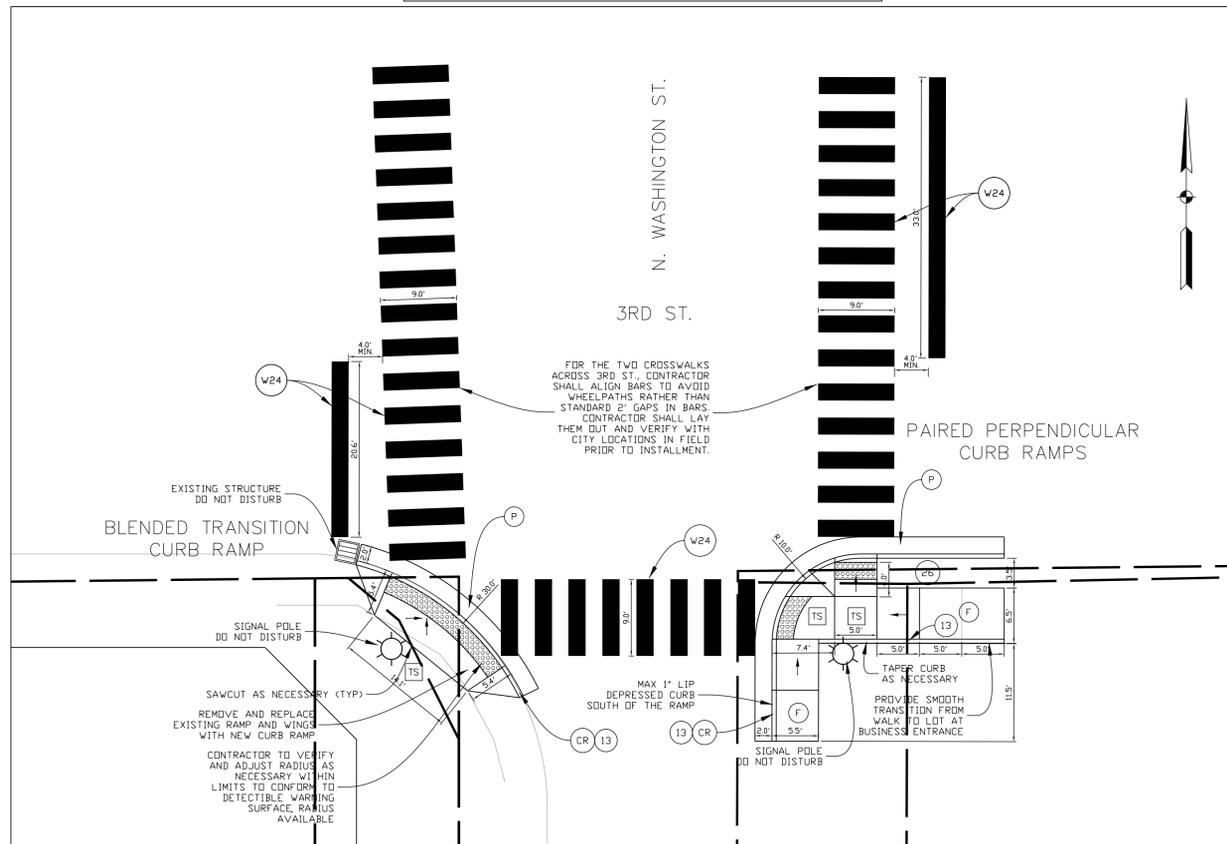
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VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	10 of 16
	PROJECT



WASHINGTON STREET and 3RD STREET



WASHINGTON STREET and ALLEY



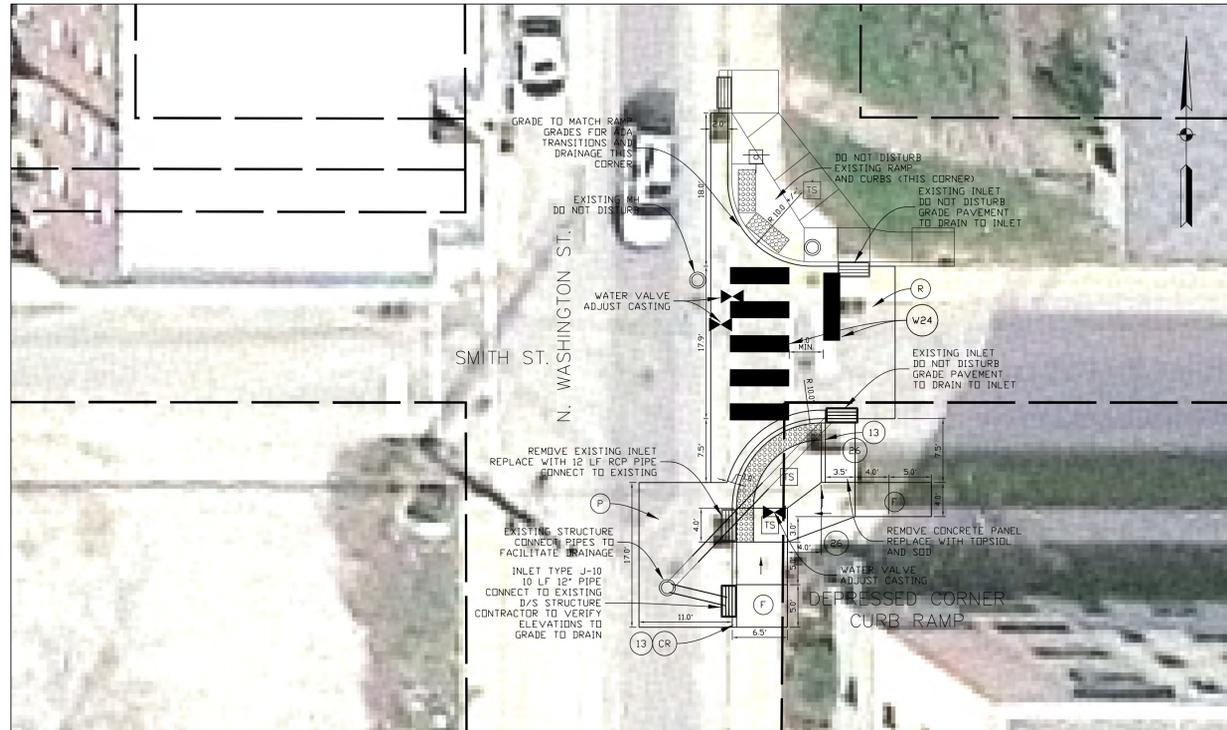
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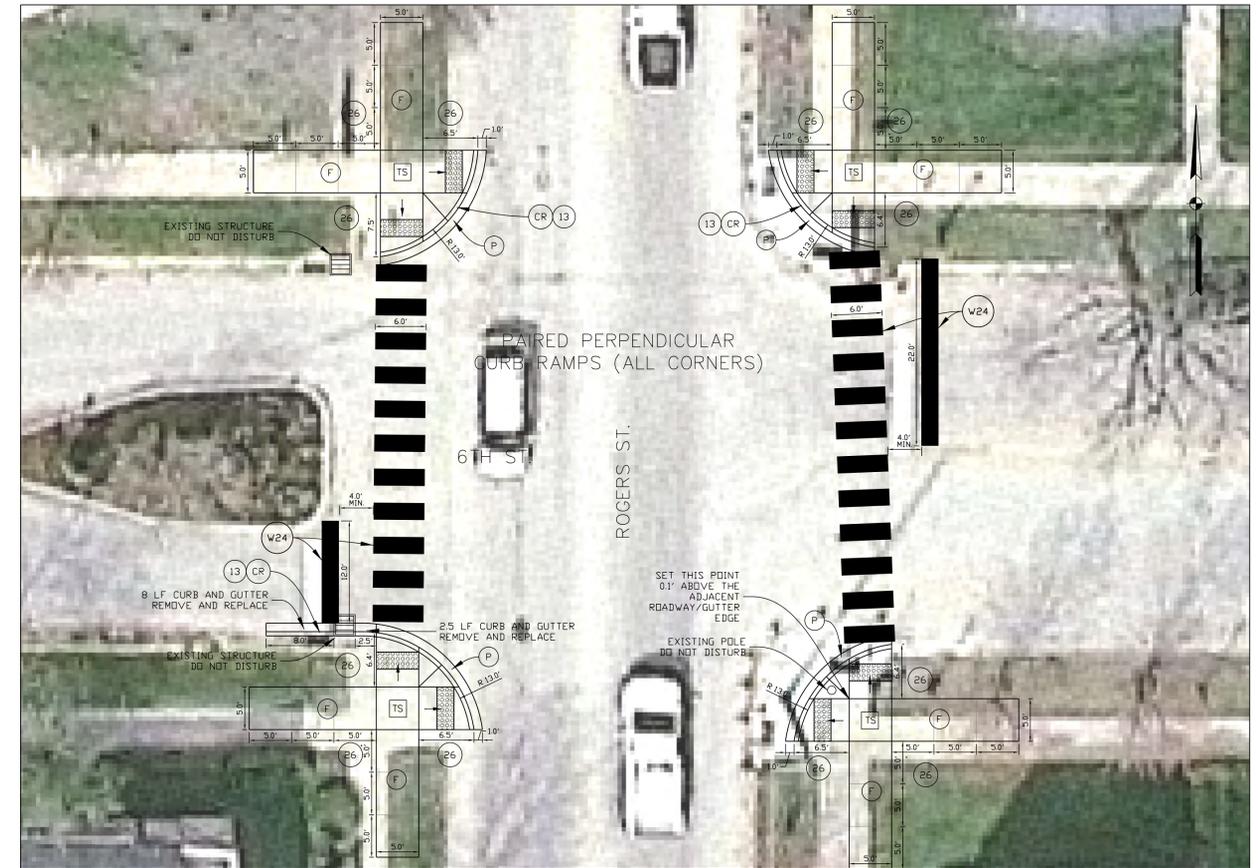
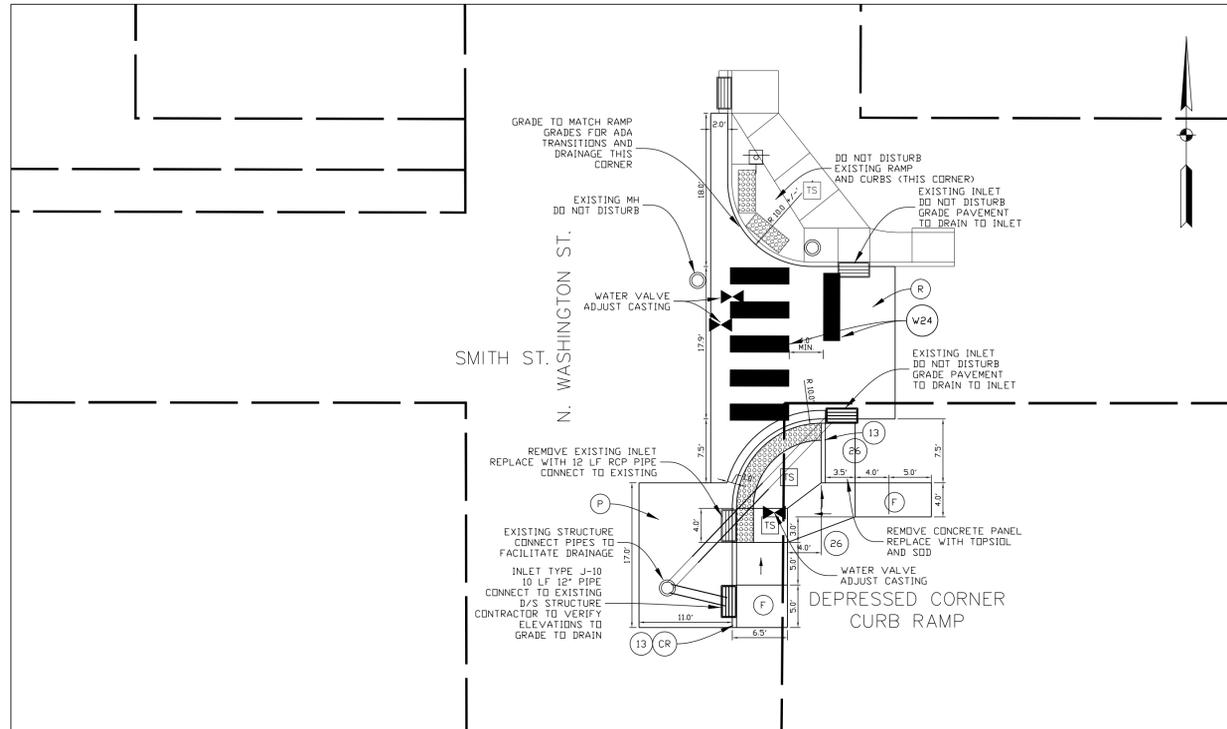
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CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION
INTERSECTION SITE PLAN

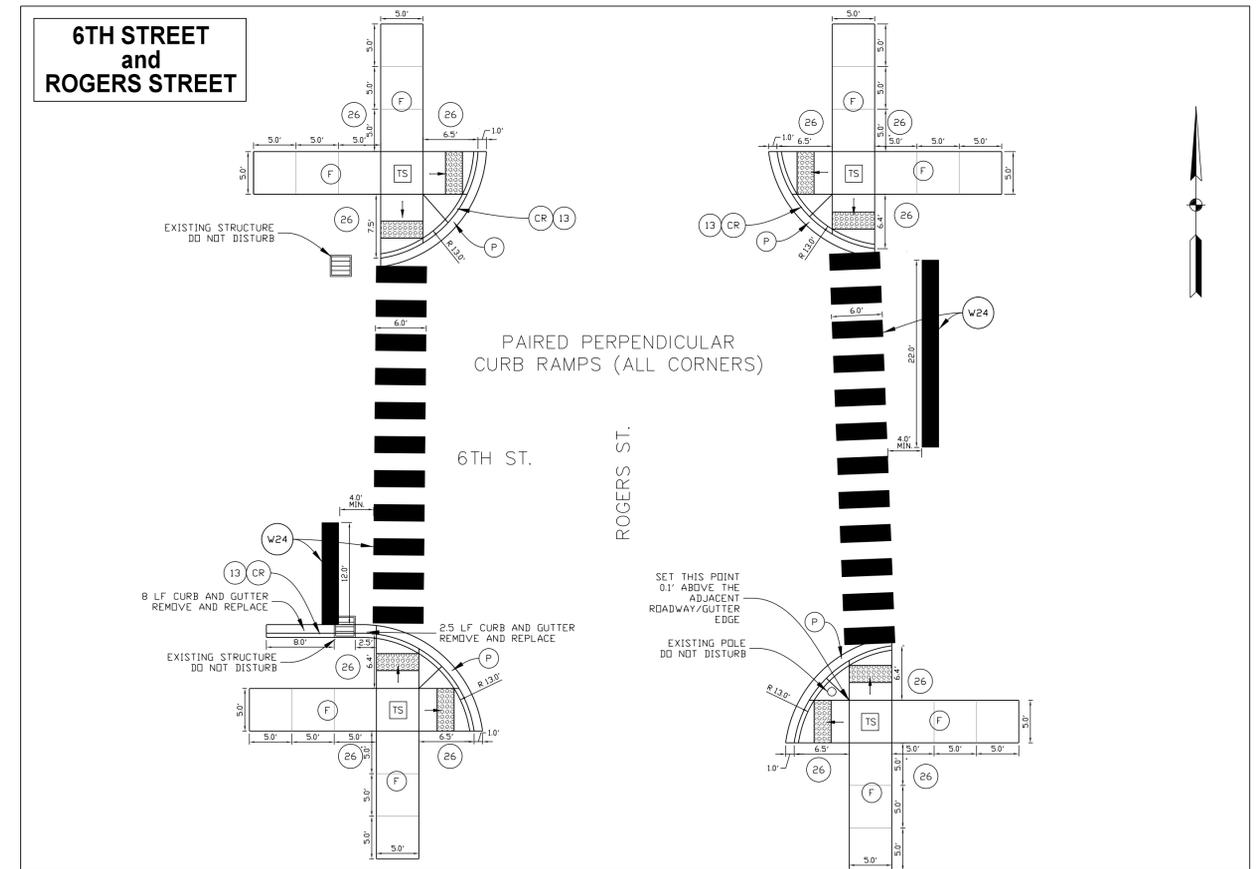
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VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	11 of 16 PROJECT



WASHINGTON STREET and SMITH STREET



6TH STREET and ROGERS STREET



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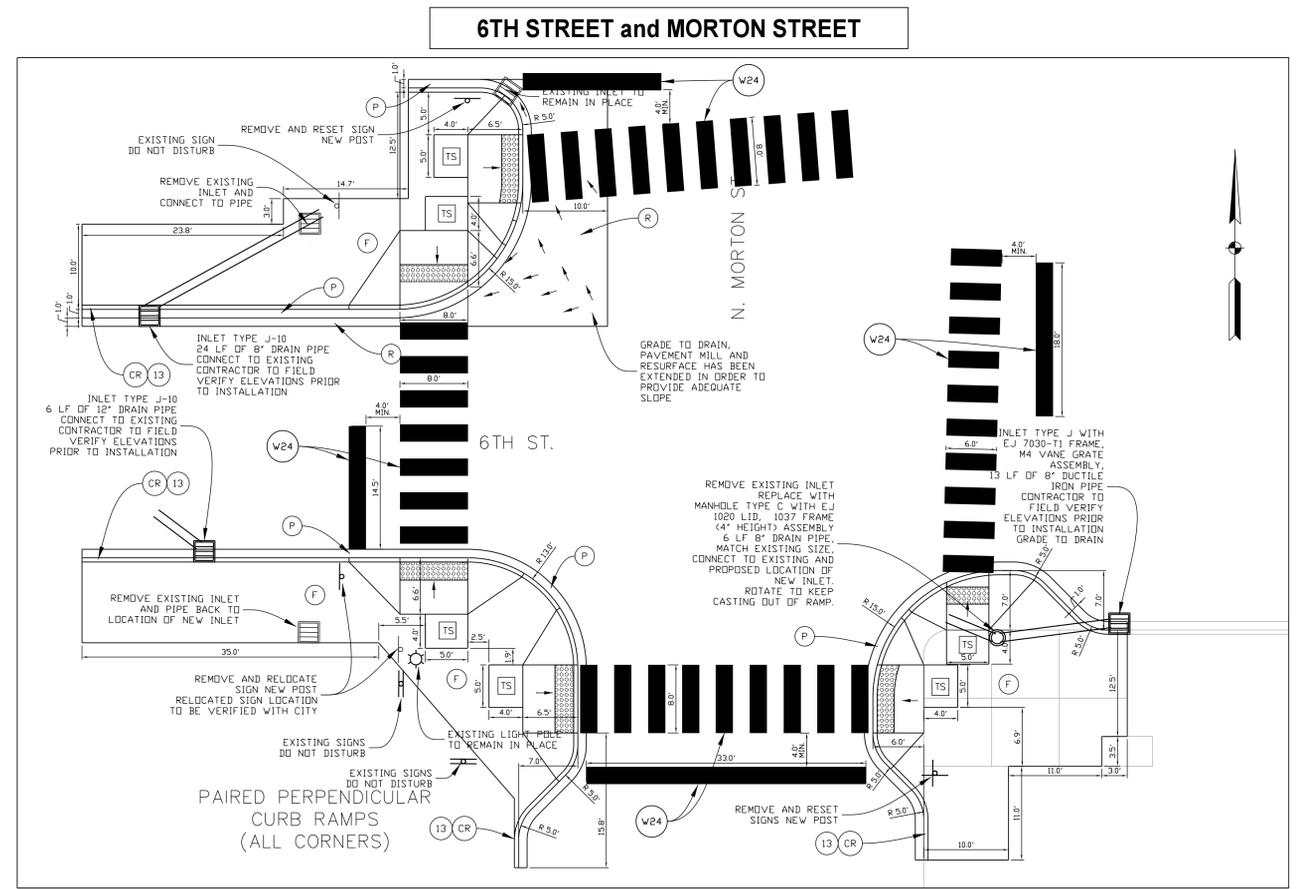
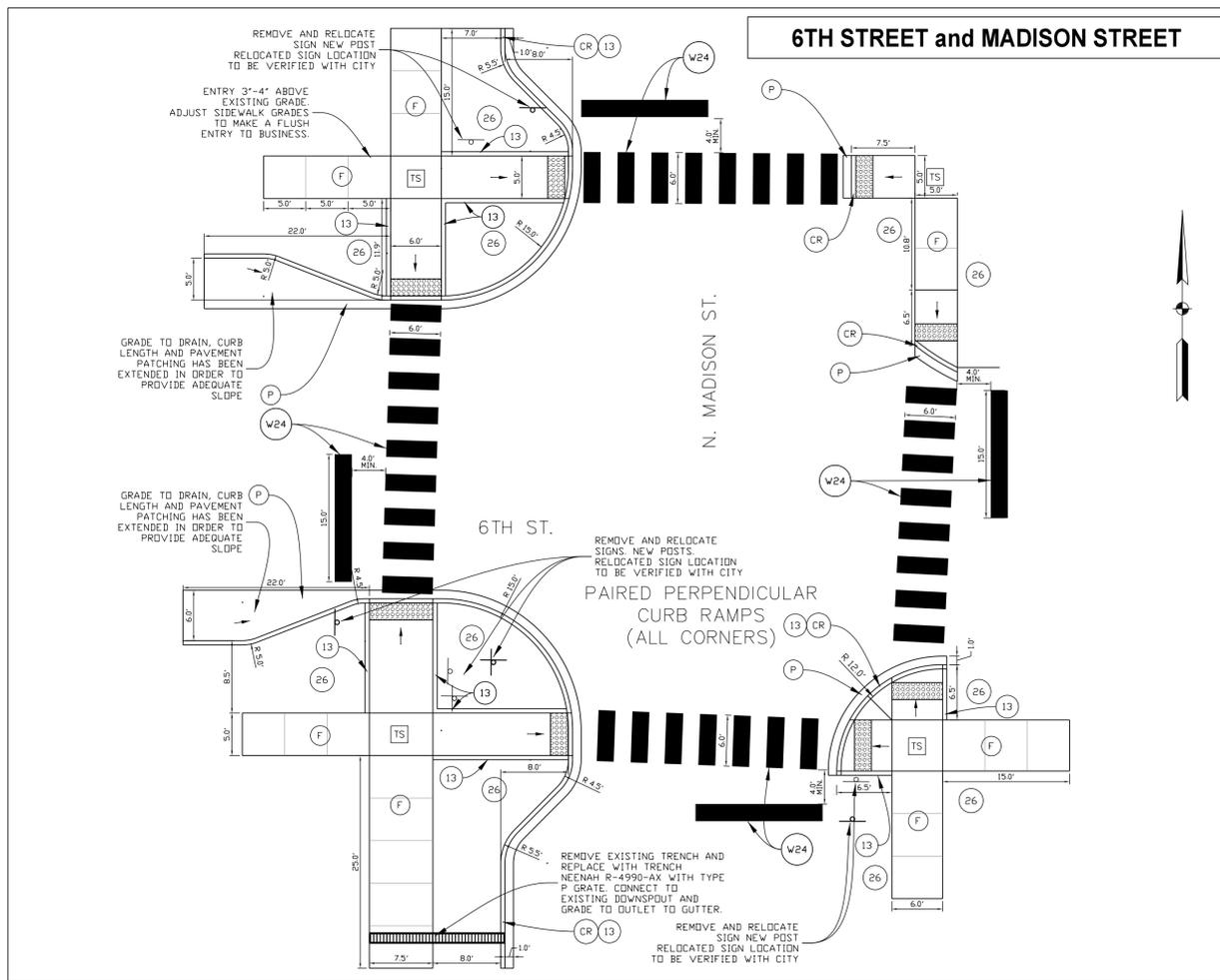
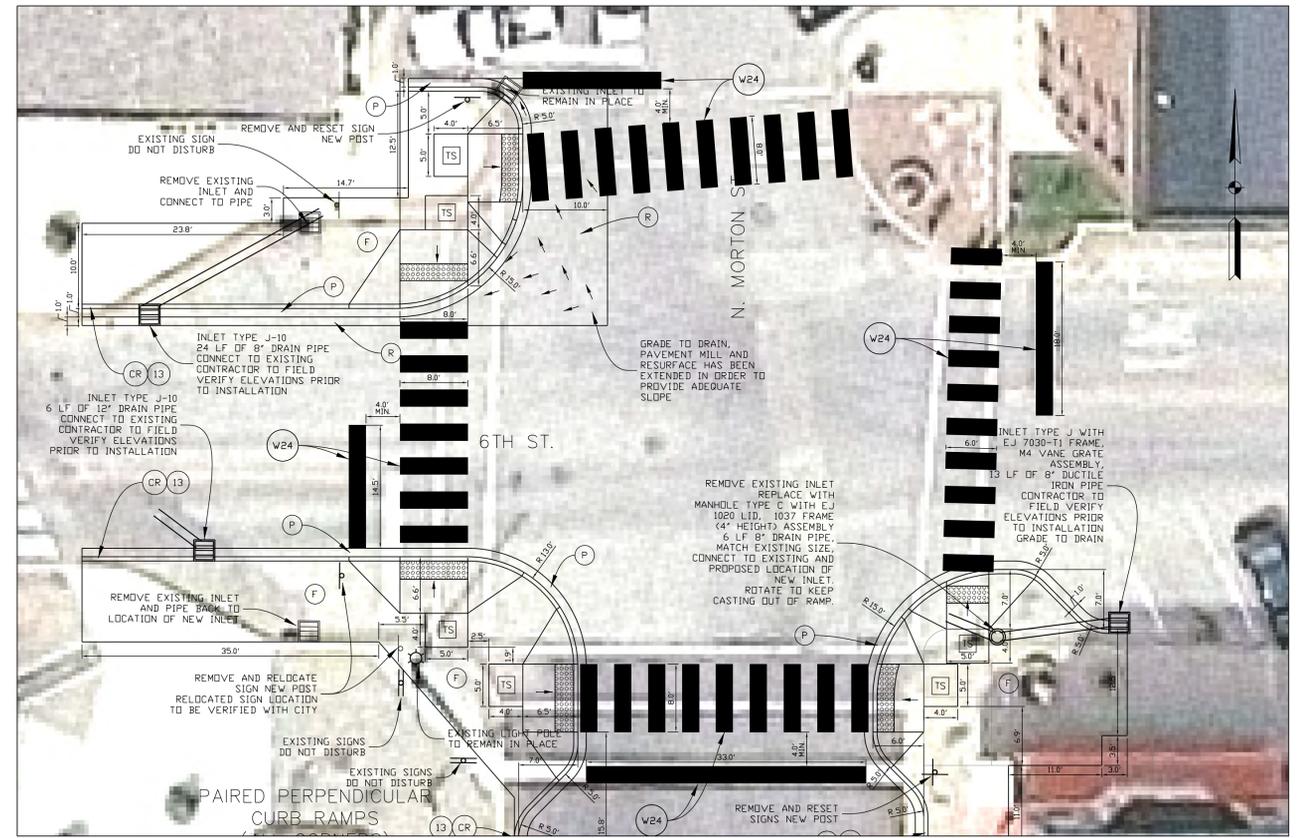
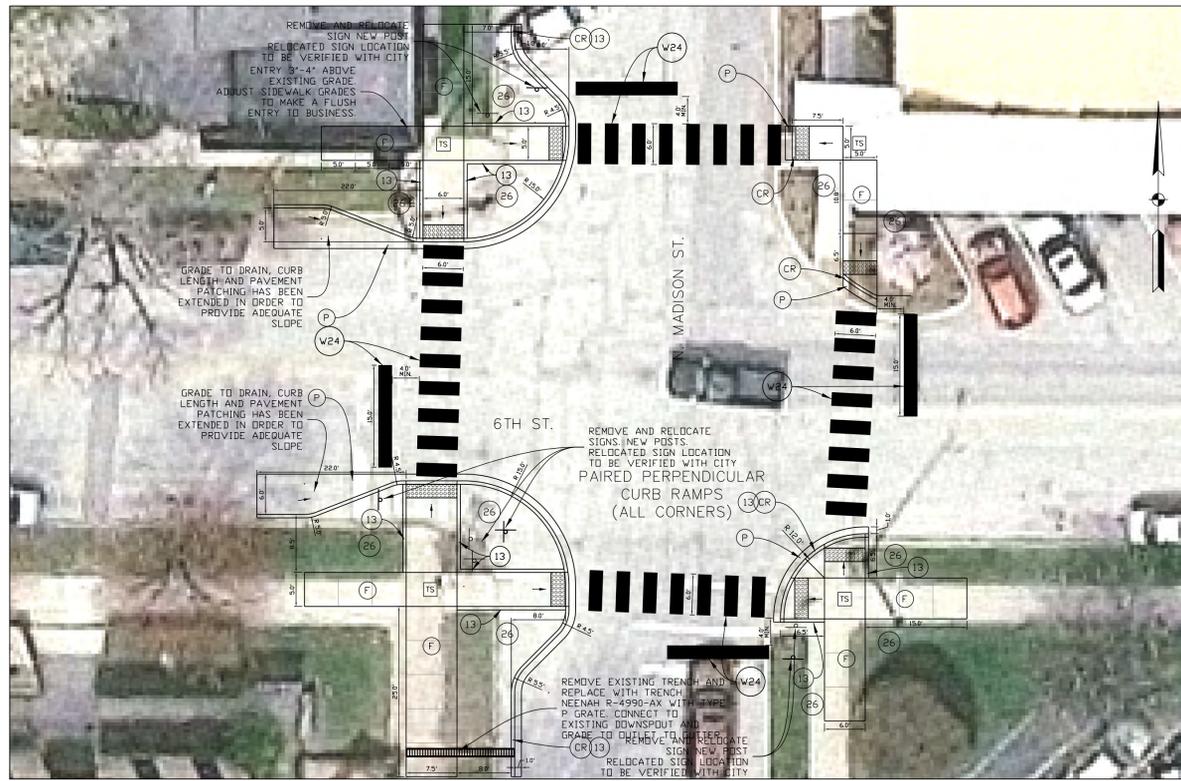


RECOMMENDED FOR APPROVAL	<i>Michael J. Davis</i>	2-15-2019
	DESIGN ENGINEER	DATE
DESIGNED: MT	DRAWN: SCS	
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CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

INTERSECTION SITE PLAN

HORIZONTAL SCALE	1" = 10'-0"
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	12 of 16
	PROJECT



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DESIGNED:	MT	DRAWN:	SCS				
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CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

INTERSECTION SITE PLAN

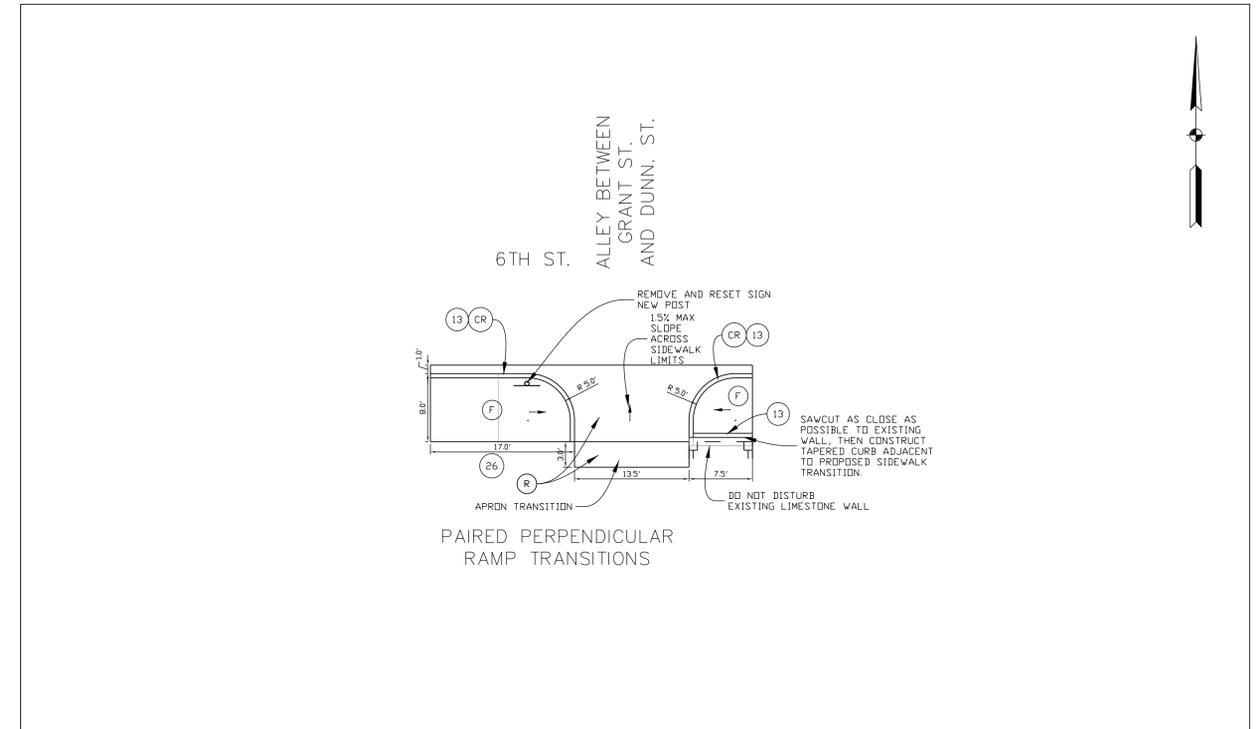
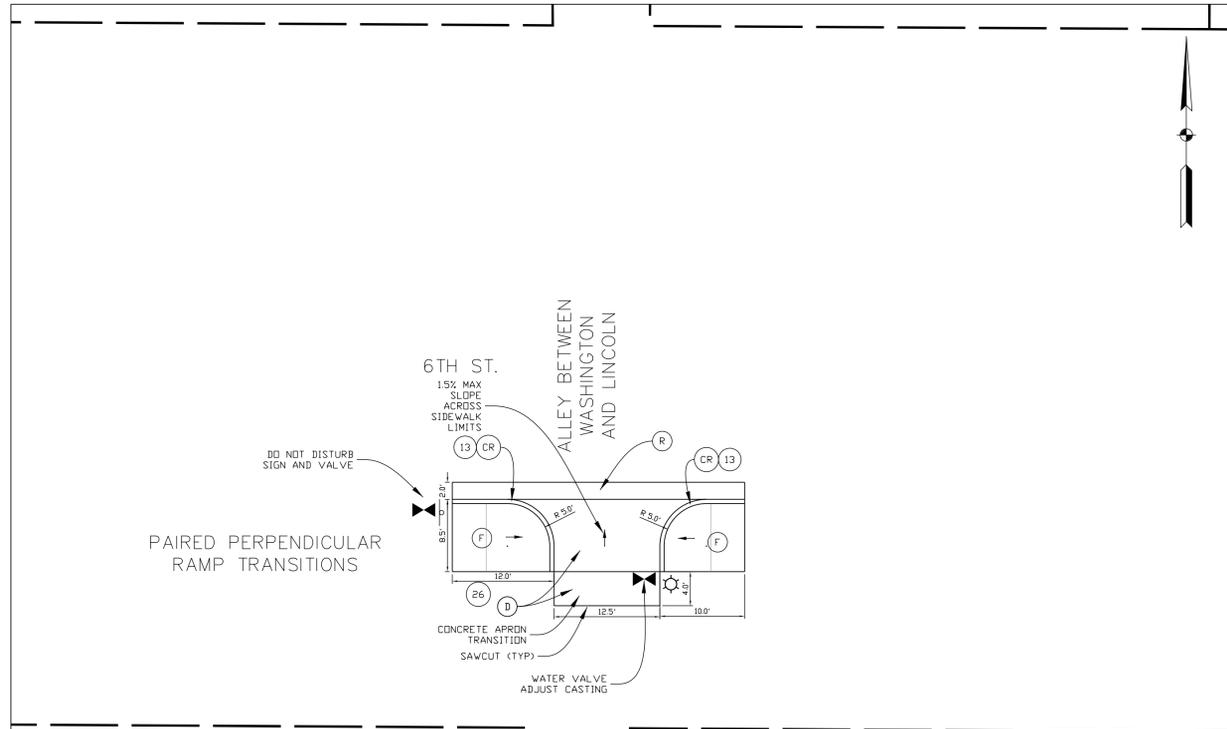
HORIZONTAL SCALE	1" = 10'-0"
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	13 of 16
	PROJECT



6TH STREET and ALLEY



6TH STREET and ALLEY



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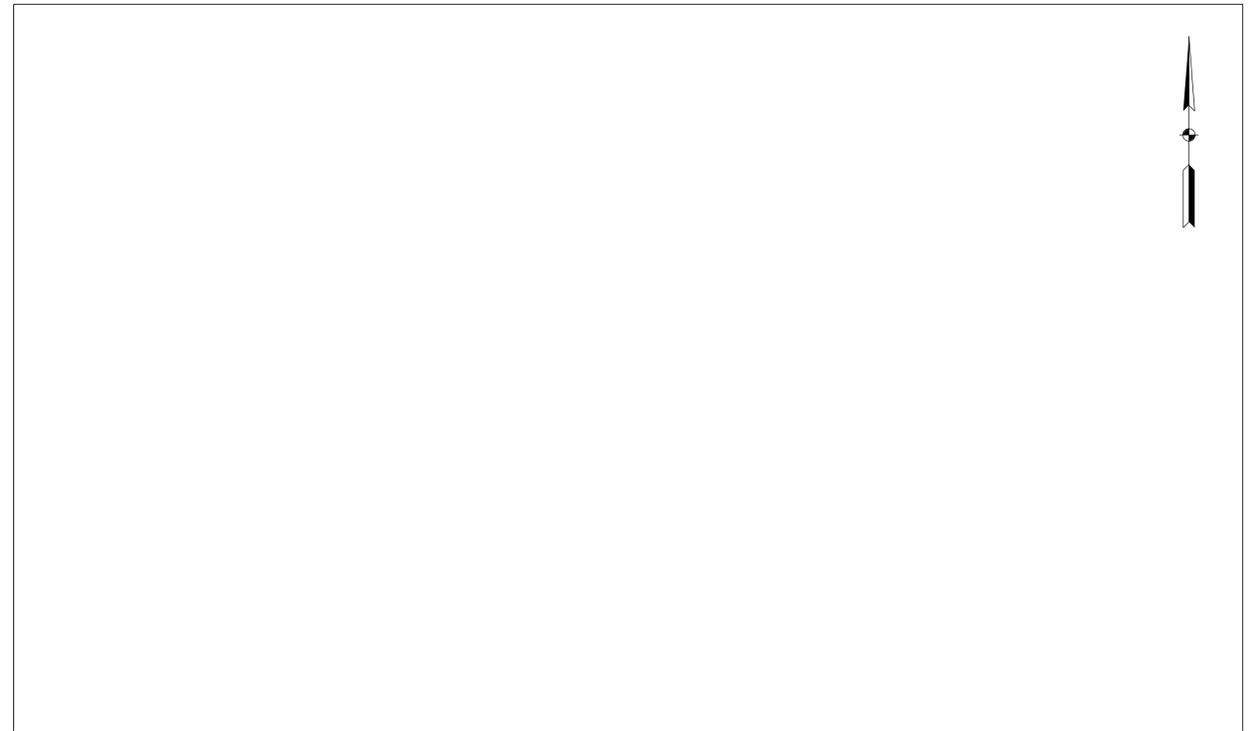
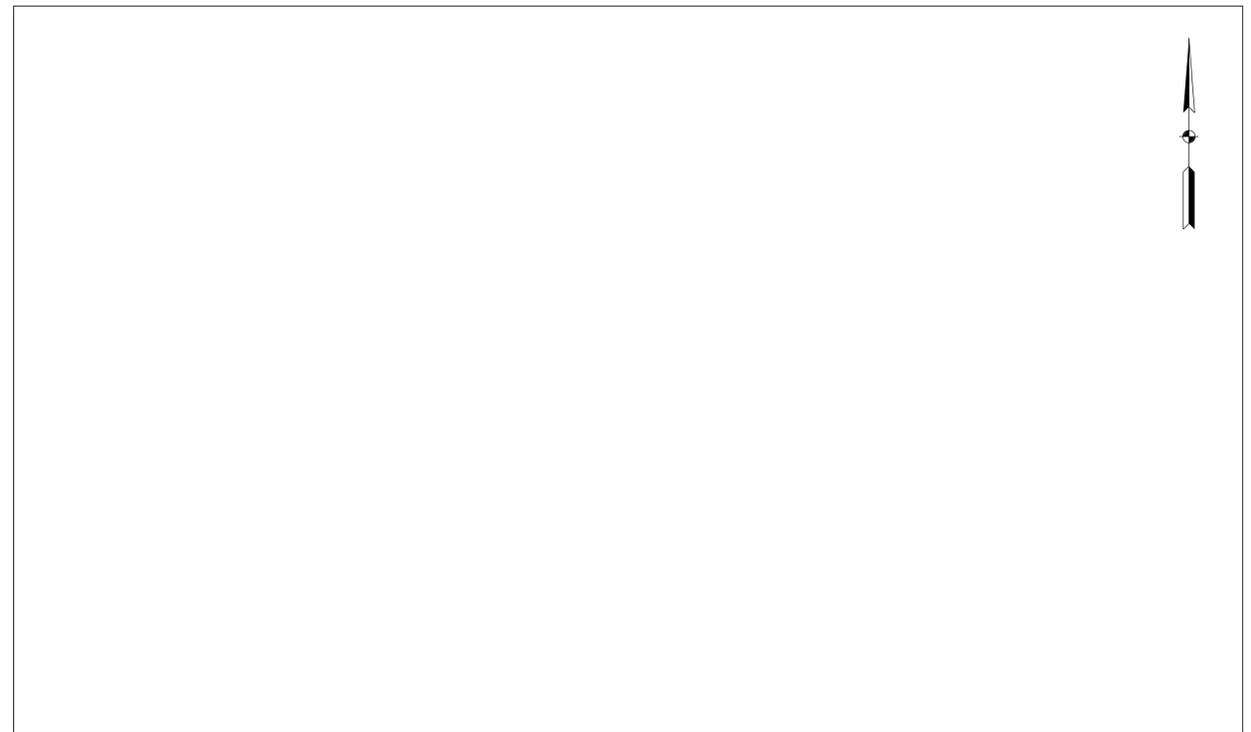
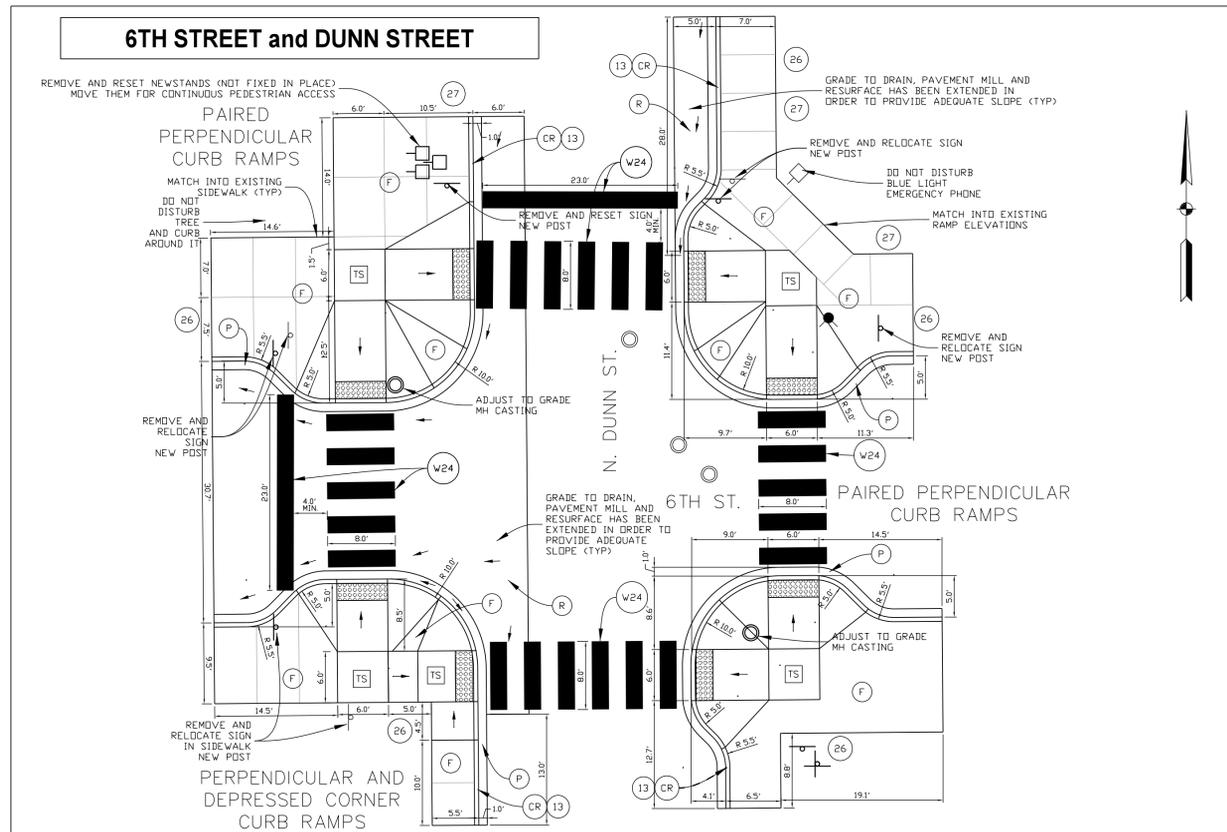
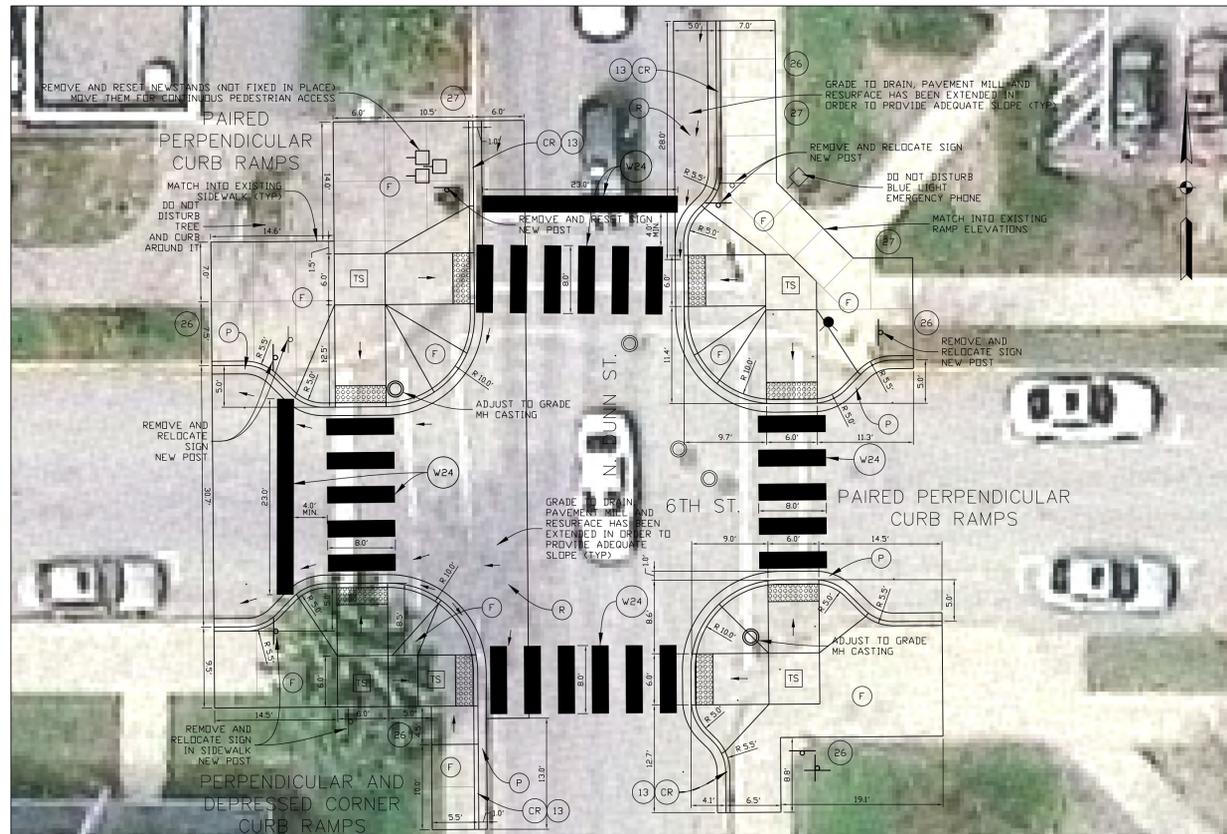


RECOMMENDED FOR APPROVAL	<i>Michael J. Janis</i>	DESIGN ENGINEER	2-15-2019	DATE
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CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

INTERSECTION SITE PLAN

HORIZONTAL SCALE	1" = 10'-0"
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	14 of 16 PROJECT



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RECOMMENDED FOR APPROVAL	<i>Michael J. Davis</i>	DESIGN ENGINEER	2-15-2019	DATE
DESIGNED:	MT	DRAWN:	SCS	
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CITY OF BLOOMINGTON
PLANNING AND TRANSPORTATION

INTERSECTION SITE PLAN

HORIZONTAL SCALE	1" = 10'-0"
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	15 of 16 PROJECT

