

## CONSTRUCTION DOCUMENTS

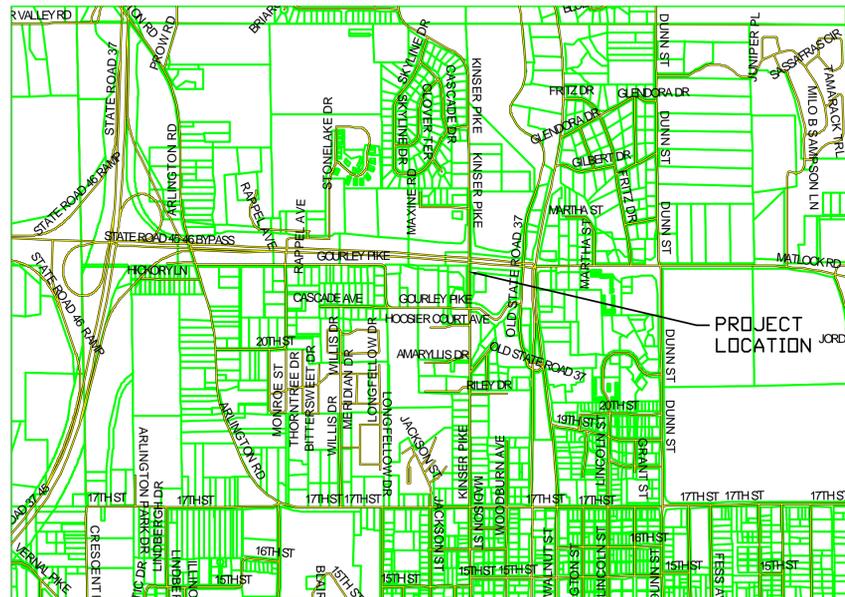
ENGINEER'S PROJECT NO. 6612  
September 17, 2009

## SHEET INDEX

C100	TITLE SHEET
C101	EXISTING SITE CONDITION PLAN
C201	SELECTIVE SITE DEMOLITION PLAN/IMPROVEMENT PLAN
C301	SITE GRADING AND DRAINAGE PLAN
C401	TRAFFIC CONTROL PLAN
C501	SITE DETAILS
C502	SITE DETAILS

## SPECIFICATIONS

REFER TO INDOT STANDARD SPECIFICATIONS



A1 PROJECT LOCATION MAP  
NTS

# Kinser Pike Sidewalk Improvements at State Road 45/46 Bypass

## OWNER'S ADDRESS:

CITY OF BLOOMINGTON  
CITY HALL SHOWERS BUILDING  
401 NORTH MORTON STREET, SUITE 130  
BLOOMINGTON, INDIANA 47401

## PROJECT ADDRESS:

KINSER PIKE  
BLOOMINGTON, INDIANA 47404

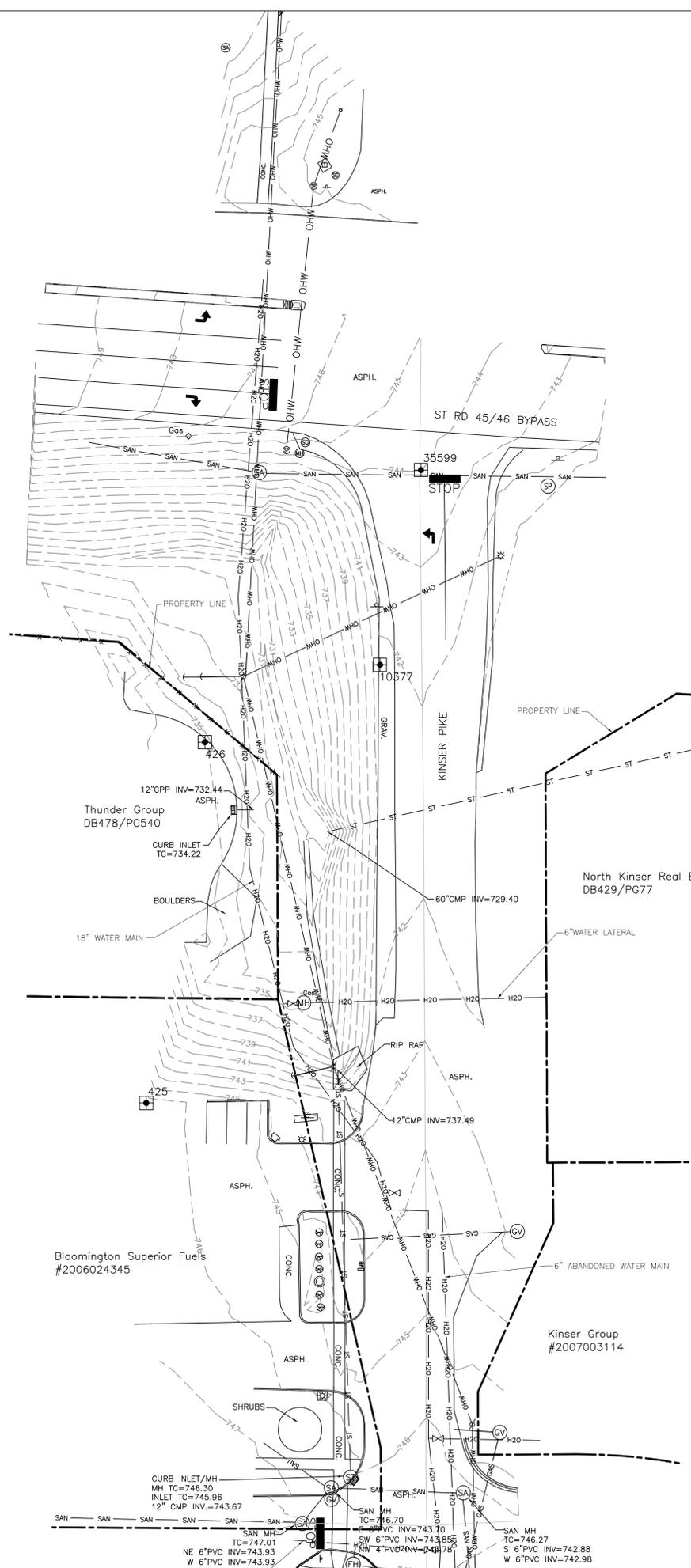
## STAMPS & APPROVALS:



**Bledsoe Riggert Guerrettaz**  
LAND SURVEYING · CIVIL ENGINEERING

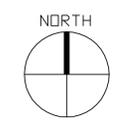
1351 West Tapp Road  
Bloomington, Indiana 47403

Phone: 812-336-8277  
Fax: 812-336-0817



**CONTROL POINTS**

POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
425	SET MAG NAIL	1434505.8235	3107280.4576	746.4876
426	FOUND MAG NAIL	1434666.4583	3107306.6247	735.0835
10377	SET NAIL	1434700.9338	3107384.8904	741.7647
35599	FOUND MAG NAIL	1434787.6654	3107403.2318	744.0170



**EXISTING SITE CONDITION PLAN**  
1  
C101  
1"=30'

**GENERAL SITE NOTES**

1. THIS PLAN SHOWS APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES BASED ON FIELD LOCATES BY INDIANA UNDERGROUND PLANT PROTECTION AND INFORMATION PROVIDED BY LOCAL UTILITY COMPANIES. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL UTILITIES AND NOTIFY ARCHITECT/ENGINEER OF ANY AND ALL DISCREPANCIES.  
2. CONTRACTOR TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

**UTILITY CONTACTS**

AT&T  
Brent McCabe - (812) 334-4521  
DUKE ENERGY  
Tammy Gardner - (812) 337-3038  
Kerry Ducker - (812) 337-3035  
CITY OF BLOOMINGTON UTILITIES  
Nancy Axsom - (812) 349-3689  
VECTREN  
Gary Hopkins - (812) 330-4031  
Neil Mendenhall - (812) 330-4008  
COMCAST  
Scott Templeton - (812) 355-7822

**LEGEND**

- UGE/OHE — UNDERGROUND/OVERHEAD ELECTRIC
- H2O — UNDERGROUND WATER
- SAN — SANITARY SEWER
- GAS — UNDERGROUND GAS
- UGC — UNDERGROUND COMMUNICATIONS
- FIB. OPT. — FIBER OPTIC
- UT — UNDERGROUND TELEPHONE
- OHW — OVERHEAD WIRES
- ST — STORM SEWER
- — — — — EXISTING CONTOURS
- ⊙ LIGHT POLE
- ⊙ UTILITY POLE
- ↓ GUY WIRE
- WV ○ WATER VALVE
- WM ○ WATER METER
- WS ○ WATER SPIGOT
- SANITARY MANHOLE
- POST
- X X FENCE LINE
- TR □ TELEPHONE RISER
- MB □ MAILBOX
- CV ○ GAS VALVE
- (FH) FIRE HYDRANT
- 2" PINE ○ TREE
- SHRUB
- STREET SIGN
- GM ○ GAS METER
- (ST) STORM MANHOLE
- STORM INLET
- GAS RISER
- CO ○ CLEAN OUT
- (MH) MANHOLE
- EM ○ ELECTRIC METER
- DS ○ DOWNSPOUT
- (SA) SANITARY MANHOLE
- (SG) SIGNAL MANHOLE
- (SP) SIGNAL POLE



1351 West Tapp Road  
Bloomington, Indiana 47403  
Phone: 812.336.8277  
Fax: 812.336.0817  
www.brgcivil.com

BLOOMINGTON BEDFORD PAOLI



City of Bloomington  
Kinser Pike Sidewalk  
Improvements at State Road  
45/46 Bypass

Kinser Pike  
Bloomington, Indiana 47404

BRG Project No: 6612

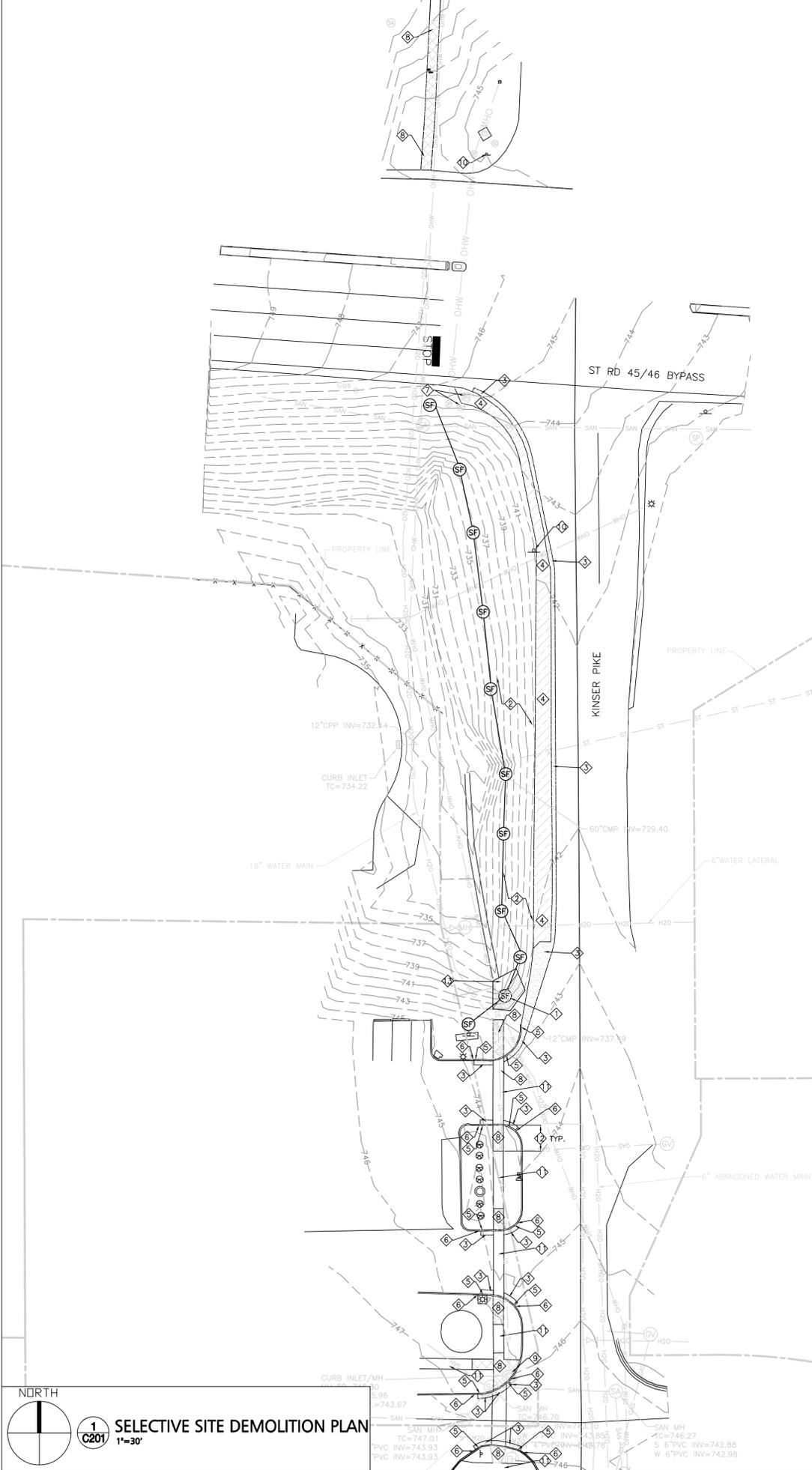
**EXISTING SITE  
CONDITION PLAN**

Date:	Issue:
9-17-09	CONSTRUCTION DOCUMENTS

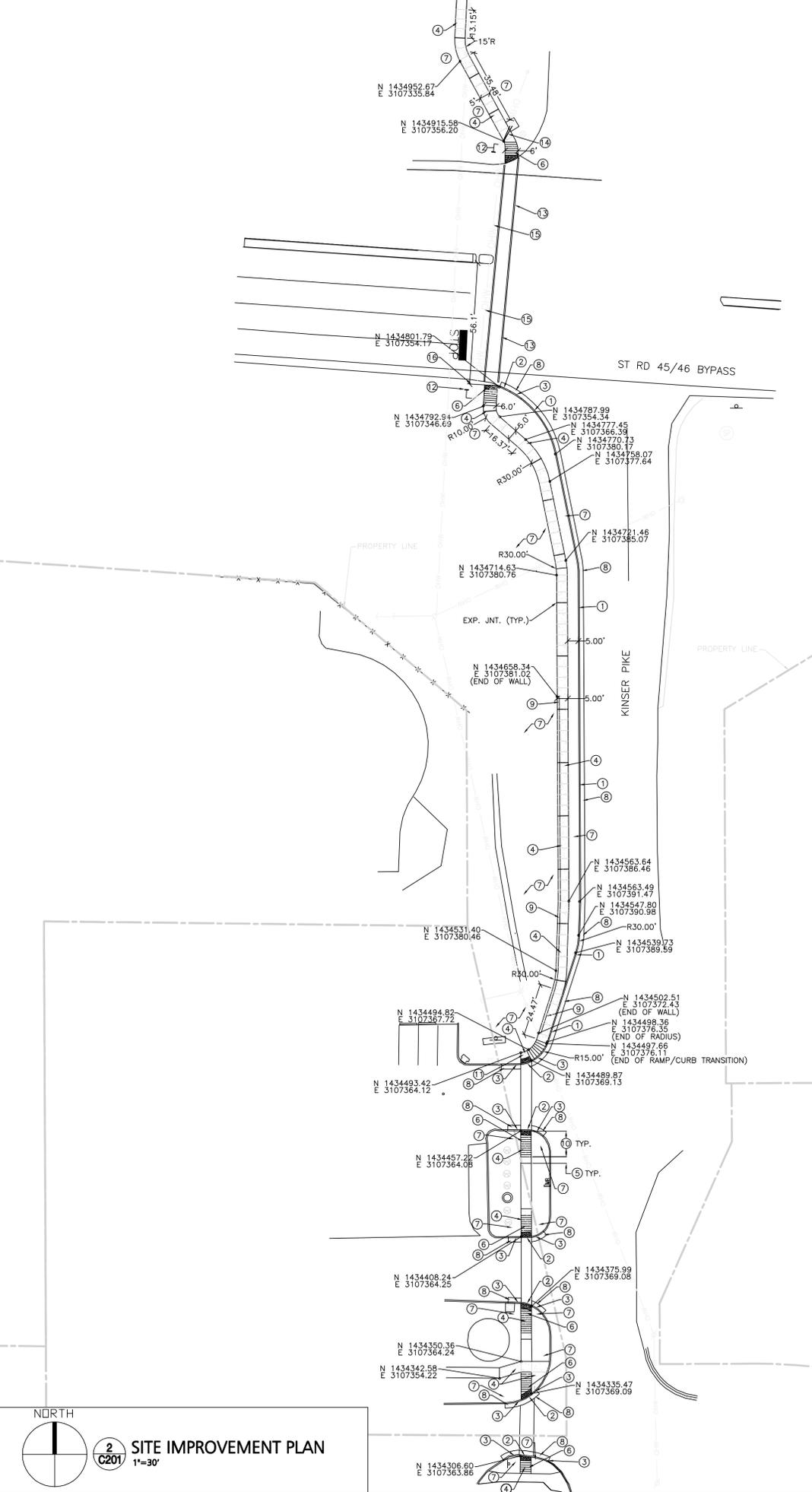
Drawn By: DJB  
Designed By: DJB  
Checked By: WSR

Scale: 1" = 30'

**C101**



**1**  
**C201**  
**SELECTIVE SITE DEMOLITION PLAN**  
 1"=30'



**2**  
**C201**  
**SITE IMPROVEMENT PLAN**  
 1"=30'

**SITE DEMOLITION NOTES**

- CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- THE LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICES, INC. AT 1-800-382-5544.
- CONTRACTOR SHALL IMPLEMENT NECESSARY STORMWATER POLLUTION PREVENTION MEASURES PRIOR TO START OF WORK AND MAINTAIN THEM TO ENSURE SEDIMENT DOES NOT LEAVE THE PROJECT SITE THROUGHOUT THE DURATION OF THE PROJECT.
- THIS PLAN SHOWS THE OVERALL AREAS OF DEMOLITION TO ALLOW CONSTRUCTION OF IMPROVEMENTS. THE EXACT AREAS OF DEMOLITION SHALL BE ESTABLISHED AND RESTORED BY THE CONTRACTOR. CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIAL FROM THE SITE UNLESS OTHERWISE NOTED.
- REMOVE EXISTING STRUCTURES, ASPHALT, CONCRETE, GRAVEL, SOIL, LANDSCAPING AND OTHER MATERIALS AS REQUIRED TO CONSTRUCT DESIGNED IMPROVEMENTS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SAW CUT ALONG PAVEMENTS AND OTHER ADJOINING SURFACES TO REMAIN. SIDEWALKS AND CURBS SHALL BE REMOVED TO THE NEXT CLOSEST JOINT BEYOND.
- AREAS DISTURBED DURING DEMOLITION, CONSTRUCTION, AND GRADING ACTIVITIES SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY WORK IN ORDER TO COMPLETE THE PROJECT AS DESIGNED.
- CONTRACTOR SHALL PROVIDE ADVANCE WARNING SIGNAGE, BARRICADES AND FLAGGERS AS REQUIRED WHEN WORKING ALONG, NEAR, OR WITHIN THE STATE OF INDIANA AND THE CITY OF BLOOMINGTON'S STREETS. ALL TRAFFIC CONTROLLING AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSING ANY STREET OR PORTION THEREOF, THE CONTRACTOR SHALL CONTACT THE CITY OF BLOOMINGTON PUBLIC WORKS DEPARTMENT AT (812) 349-3410 TO MAKE NECESSARY ARRANGEMENTS. CONTACT THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) AND THE CITY FOR ADDITIONAL DETAILS.

**SITE IMPROVEMENT NOTES**

- ALL DIMENSIONS ARE TO FACE OF CURB, POINT OF TANGENCY, EDGE OF PAVEMENT, OR EDGE OF WALK, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK. ALL COORDINATES ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOP SOIL AND SOD OR BE IMPROVED AS NOTED OTHERWISE.
- ALL RADII ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
- REFER TO PLAN FOR DETAILS CORRESPONDING TO PLAN NOTES.

**DEMOLITION PLAN NOTES**

- ◇ EXISTING RIP RAP TO BE REMOVED AND RELOCATED FOR THE END OF THE EXISTING PIPE OUTLET CURRENTLY IN THAT LOCATION
- ◇ EXISTING BRUSH TO BE REMOVED AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS
- ◇ EXISTING ASPHALT PAVING AND BASE TO BE REMOVED.
- ◇ EXISTING GRAVEL TO BE REMOVED
- ◇ EXISTING CURB TO BE SAW CUT AND REMOVED
- ◇ EXISTING CURB TO REMAIN
- ◇ EXISTING MANHOLE TO BE ADJUSTED TO FINAL FINISHED GRADE - REFER TO C301 FOR GRADING PLAN.
- ◇ EXISTING CONCRETE PAVING AND BASE TO BE REMOVED.
- ◇ EXISTING STORM MANHOLE AND INLET TO REMAIN. CONCRETE BE REMOVED AROUND STORM STRUCTURES TO IMPLEMENT NEW RAMP AND CONCRETE PAVEMENT.
- ◇ EXISTING SIGN TO BE CAREFULLY REMOVED AND RELOCATED
- ◇ EXISTING CONCRETE TO REMAIN
- ◇ REMOVE EXISTING SIDEWALK TO ALLOW CONSTRUCTION OF ADA COMPLIANT RAMP AND EXTEND TO NEXT CLOSEST JOINT BEYOND, TYPICAL FOR EACH RAMP
- ◇ EXISTING RIP RAP TO REMAIN AND STORM PIPE OUTLET PROTECTED

**IMPROVEMENT PLAN NOTES**

- 8" STANDING CONCRETE CURB - REFER TO DETAIL
- DEPRESSED CURB - REFER TO DETAIL
- CONCRETE CURB TRANSITION - REFER TO DETAIL
- CONCRETE PAVEMENT 4" THICK - REFER TO DETAIL
- EXTEND SIDEWALK TO NEXT CLOSEST JOINT, 2' MINIMUM, TYPICAL EACH RAMP
- ADA COMPLIANT RAMP TYPE 'G' - REFER TO DETAIL
- TURF AREA - 6" TOP SOIL TO FINISH GRADE & SOD
- CITY OF BLOOMINGTON PAVEMENT PATCH - REFER TO DETAIL
- INTEGRAL WALL AND WALK - REFER TO DETAIL
- NEW COMPLIANT ADA RAMP LENGTH REQUIRED TO MAINTAIN A MAXIMUM 1:12 SLOPE, TYPICAL EACH RAMP
- MODIFIED ADA COMPLIANT RAMP TYPE 'K' - REFER TO DETAIL
- PEDESTRIAN INDICATION, INTERNATIONAL SYMBOL WITH PUSH BUTTON AND COUNTDOWN FEATURE. CONTRACTOR TO PLACE PUSH BUTTON ON EAST SIDE OF POLE AND PEDESTRIAN INDICATOR ON WEST SIDE OF POLE.
- THERMOPLASTIC PAVEMENT MARKING - 6" WIDE, WHITE CROSS WALK PER INDOT SECTION 913.14
- PRE-APPROVED INDOT CONTRACTOR TO INSTALL 2 - 3C/14 AND 2-5C/14 LINES FROM THE CONTROLLER TO THE SIGNAL POLE PER INDOT STANDARD SPECIFICATIONS. CONTRACTOR SHALL RUN A 5C/14 TO EACH PEDESTRIAN INDICATION AND A 3C/14 TO EACH PUSH BUTTON. CONTRACTOR TO CONTACT TIM HARTWELL AT 812-524-3777 AT LEAST 3 DAYS PRIOR TO ANY WORK ON THE TRAFFIC SIGNAL.
- PRE-APPROVED INDOT CONTRACTOR TO INSTALL 1 - 3C/14 AND 1 5C/14 LINES FROM SIGNAL POLE TO SIGNAL POLE PER INDOT STANDARD SPECIFICATIONS. CONTRACTOR SHALL RUN A 5C/14 TO EACH PEDESTRIAN INDICATION AND A 3C/14 TO EACH PUSH BUTTON. CONTRACTOR TO CONTACT TIM HARTWELL AT 812-524-3777 AT LEAST 3 DAYS PRIOR TO ANY WORK ON THE TRAFFIC SIGNAL.
- PROPOSED EDGE OF PAVEMENT LINE AS A PART OF THE INDOT SR 45/46 BYPASS IMPROVEMENTS, APPROXIMATELY 56.1' FROM EDGE OF CURB. CONTRACTOR TO COORDINATE WITH TONY MOORE AT 812-332-1411 FOR EXACT PROPOSED EDGE OF PAVEMENT LINE. CONTRACTOR TO END CONCRETE CURB RAMP AT PROPOSED EDGE OF PAVEMENT, AND FILL GAP WITH 1 1/2" ASPHALT SURFACE

**DEMOLITION PLAN LEGEND**

- LIMITS OF ASPHALT PAVING AND BASE TO BE REMOVED
- LIMITS OF GRAVEL TO BE REMOVED
- LIMITS OF CONCRETE PAVING AND BASE TO BE REMOVED
- LIMITS OF RIP RAP TO BE RELOCATED
- SILT FENCE

**UTILITY CONTACTS**

- AT&T  
 Brent McCabe - (812) 334-4521
- VECTREN  
 Gary Hopkins - (812) 330-4031
- DUKE ENERGY  
 Kerry Ducker - (812) 337-3035  
 Tommy Gardner - (812) 337-3038
- INSIGHT COMMUNICATIONS  
 Scott Templeton - (812) 335-7822
- CITY OF BLOOMINGTON UTILITIES (CBU)  
 Nancy Axson - (812) 349-3689



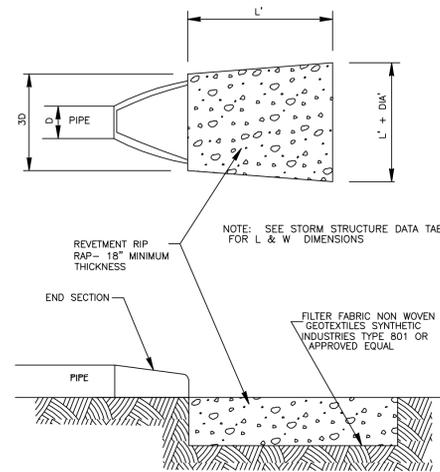
City of Bloomington  
 Kinser Pike Sidewalk  
 Improvements at State Road  
 45/46 Bypass

Kinser Pike  
 Bloomington, Indiana 47404  
 BRG Project No: 6612

**SELECTIVE SITE  
 DEMOLITION PLAN/  
 IMPROVEMENT PLAN**

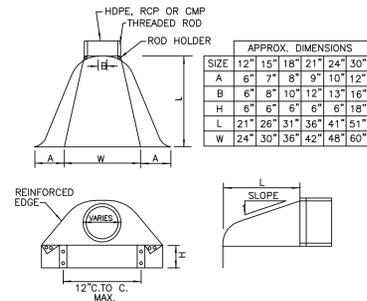
Date:	Issue:
9-17-09	CONSTRUCTION DOCUMENTS

Drawn By: DJB  
 Designed By: DJB  
 Checked By: WSR  
 Scale: 1" = 30'



**2** RIPRAP OUTLET PROTECTION

N.T.S.



**3** GALVANIZED METAL END SECTION

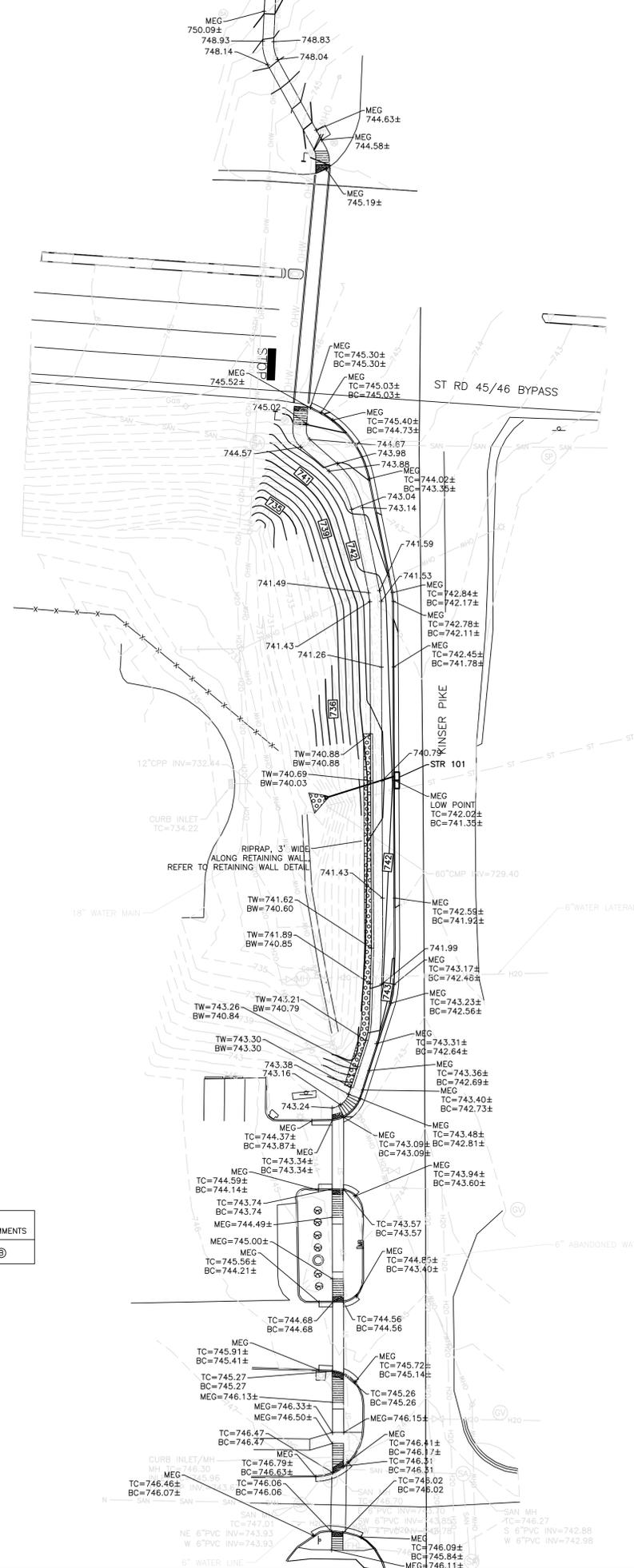
N.T.S.

STORM STRUCTURE DATA TABLE

STR #	CASTING	STRUCTURE TYPE	UP STR #	DN STR #	PIPE SPECIFICATIONS				TOP OF CASTING	RIM ELEVATION	COMMENTS		
					LENGTH	SIZE	TYPE	SLOPE					
101	DOUBLE EJW 7505	DOUBLE INLET TYPE 'J'	-	OUT	31	12	HDPE TYPE 3	10.0%	734.60	731.50	742.02	741.35	(A) (B)

EJW = EAST JORDAN IRON WORKS

- COMMENTS:
- (A) STRUCTURE TO CONTAIN TWO EJW 7505 CASTINGS AND TWO TYPE 'J' INLETS. CONTRACTOR TO INSTALL A 12" DIAMETER OPENING BETWEEN THE TWO STRUCTURES CONNECTED BY A 2" SECTION OF 12" HDPE PIPE. SEAL ALL CONNECTIONS WATER TIGHT.
  - (B) END SECTION AND RIP RAP AT OUTFALL: L = 10' / W = 10' + DIA'. END SECTION TO BE 16 GAUGE GALVANIZED STEEL - CONTECH OR APPROVED EQUAL. REFER TO DETAIL.



**1** SITE GRADING AND DRAINAGE PLAN

1" = 30'

**GENERAL GRADING NOTES**

- GRADE ALL AREAS TO THE FINISH GRADES SHOWN.
- CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSED GRADING PLANS AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BEGINNING WORK.
- INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHERE NECESSARY TO CONTROL SEDIMENT.
- CONTRACTOR SHALL PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES AND FROM FLOODING PROJECT SITE AND SURROUNDING AREAS. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT AND DAMAGE BY RAIN OR WATER ACCUMULATION. THIS WILL REQUIRE SUPPLEMENTAL GRADING ABOVE AND BEYOND THAT SHOWN.
- CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE.
- CONTRACTOR SHALL ESTABLISH FINISH GRADES TO ENSURE POSITIVE DRAINAGE WITH NO PONDING.
- LONGITUDINAL SIDEWALK SLOPE SHALL NOT EXCEED 5%. TRANSVERSE SIDEWALK SLOPE SHALL NOT EXCEED 2%.

**LEGEND**

- PROPOSED CONTOURS
- EXISTING CONTOURS
- SPOT ELEVATION
- TC TOP OF CURB
- BC TOP OF PAVEMENT AT BASE OF CURB
- TW TOP OF WALL
- BW BOTTOM OF WALL AT GRADE



City of Bloomington  
Kinser Pike Sidewalk  
Improvements at State Road  
45/46 Bypass

Kinser Pike  
Bloomington, Indiana 47404

BRG Project No: 6612

**SITE GRADING AND DRAINAGE PLAN**

Date:	Issue:
9-17-09	CONSTRUCTION DOCUMENTS

Drawn By: DJB  
Designed By: DJB  
Checked By: WSR

Scale: 1" = 30'

**C301**

# GENERAL NOTES

- ALL SIGNAGE AND INSTALLATION SHALL COMPLY WITH THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROLS, TRAFFIC HIGHWAY CONTROLS FOR STREET, CONSTRUCTION AND MAINTENANCE OPERATIONS, AND THE INDOT TRAFFIC CONTROL SAFETY MANUAL.
- COORDINATE ALL LOCATIONS WITH CITY ENGINEERING AND INDOT PRIOR TO INSTALLATION.

SIGN NUMBER	SIGN MESSAGE	SIGN SIZE	SIGN COLOR	
			BACKGROUND	TEXT
W20-5	RIGHT TURN LANE CLOSED AHEAD	48" X 48"	ORANGE	BLACK
W20-1	ROAD CONSTRUCTION AHEAD	48" X 48"	ORANGE	BLACK
AWA	ADVANCE WARNING ARROW DISPLAY FLASHING CAUTION	48" X 24" DISPLAY	BLACK	YELLOW LIGHTS
W20-5 (B)	LEFT TURN LANE CLOSED AHEAD	48" X 48"	ORANGE	BLACK
G20-2	END CONSTRUCTION	48" X 24"	ORANGE	BLACK



W.S.R.

## City of Bloomington Kinser Pike Sidewalk Improvements at State Road 45/46 Bypass

Kinser Pike  
Bloomington, Indiana 47404

BRG Project No: 6612

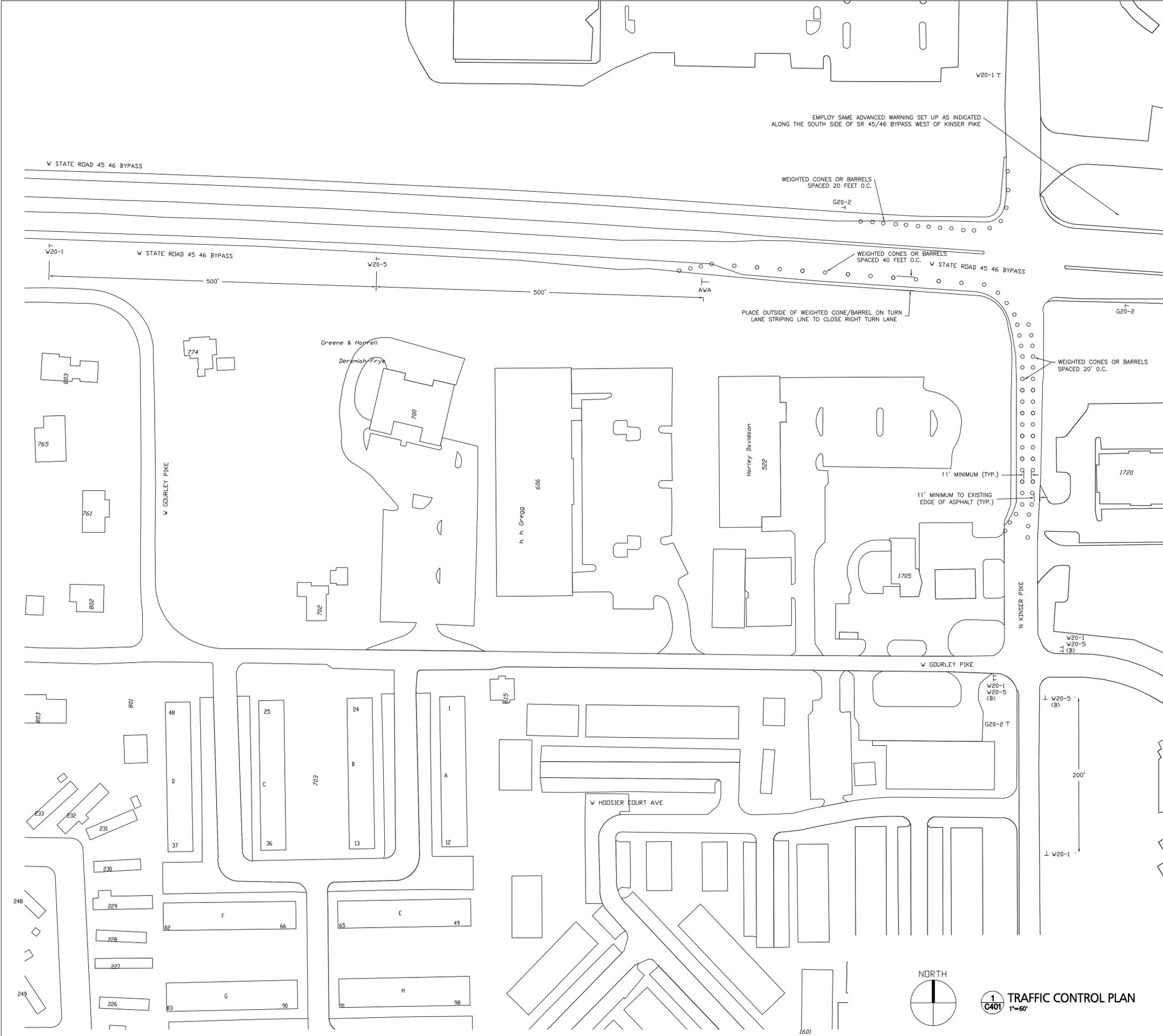
### TRAFFIC CONTROL PLAN

Date: 9-17-09 Issue: CONSTRUCTION DOCUMENTS

Drawn By: DJB  
Designed By: DJB  
Checked By: WSR

Scale: 1" = 60'

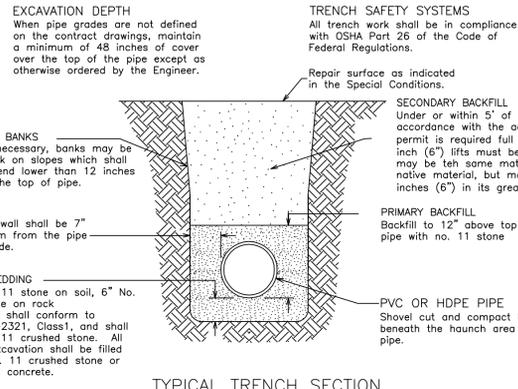
# C401



**1** TRAFFIC CONTROL PLAN  
C401 1"=60'

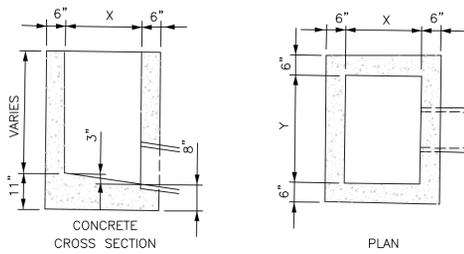


"IT'S THE LAW"  
CALL 2 WORKING DAYS BEFORE YOU DIG  
1-800-382-5544  
CALL TOLL FREE  
PER INDIANA STATE LAW (CS-1)-26,  
IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.



TYPICAL TRENCH SECTION

**1 BEDDING AND BACKFILL FOR PVC AND HDPE PIPE**  
C501

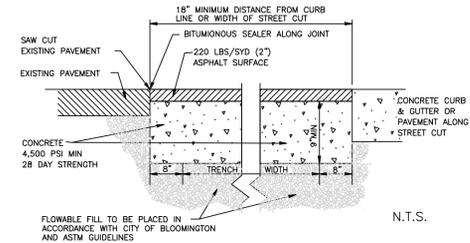


NOTE: BOX TO REST ON 4" OF COMPACTED NO. 11 STONE IF ON DIRT; 6" IF ON ROCK

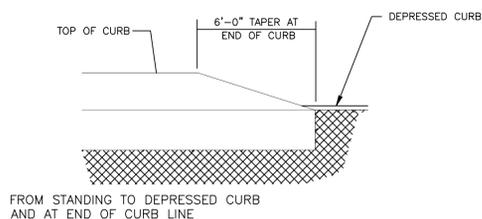
TYPE	X	Y
A	24"	24"
C	30"	48"
E	30"	30"
J	24"	36"

N.T.S.

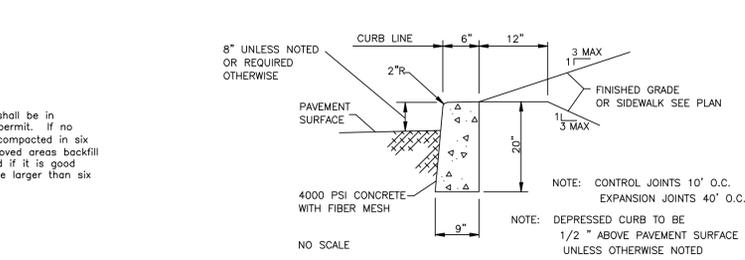
**2 STORM INLET DETAIL**  
C501



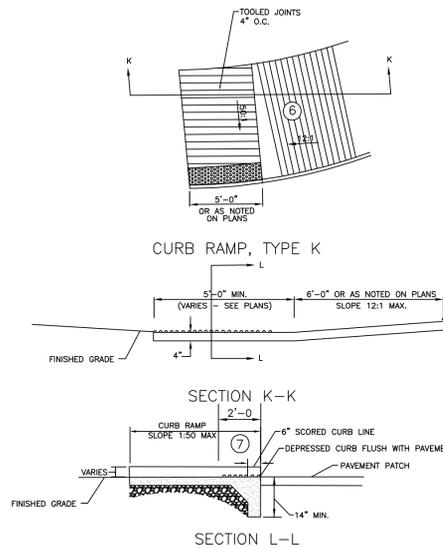
**3 CITY OF BLOOMINGTON PAVEMENT PATCH**  
C501



**4 CONCRETE CURB TRANSITION**  
C501



**5 STANDING CONCRETE CURB**  
C501



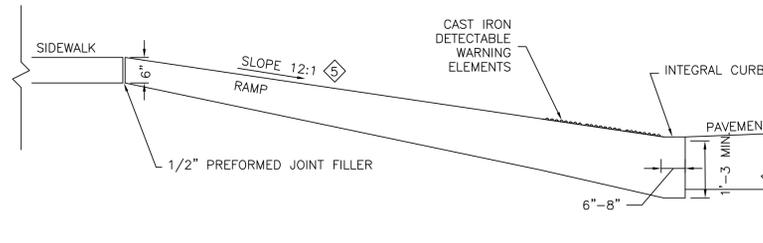
NOTES:

- ◆ See Standard Drawing E 604-SWCR-02 for General Notes respectively.
  - ⑥ See Standard Drawing E 604-SWCR-02 for groove details.
  - ⑦ See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
  - ⑧ See Standard Drawing E 604-SWCR-02 for alternate curb construction.
  - ⑨ Sidewalk across approach shall be sloped at 50:1 maximum transversely.
  - ⑩ Vertical face curb optional.
  - ⚠ See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
- \*NOTE: CONTRACTOR TO PROVIDE A 3/4" LIP FOR HANDICAP RAMPS ABOVE ADJACENT PAVEMENT

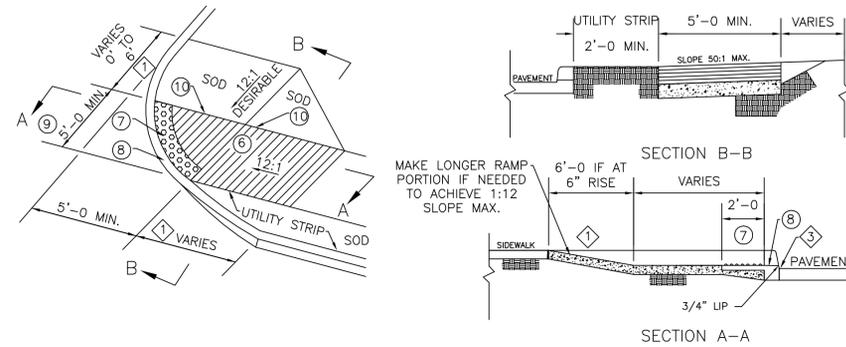
**6 MODIFIED TYPE 'K' ADA RAMP**  
C501

GENERAL NOTES:

- ① These dimensions are based on a 6 in. curb height. They shall be proportionally adjusted for other curb heights.
- ② Where site infeasibility precludes construction to the width shown, such width may be decreased to a minimum of 3'-0".
- ③ The bottom edge of the curb ramp shall be flush with the edge of adjacent pavement and gutter line.
- ④ Landing areas at the top of curb ramps shall have maximum cross slope of 5:1 in any direction. When site infeasibility precludes a landing slope of 50:1 in any direction, the slope perpendicular to the curb face shall not exceed 50:1.
- ⑤ If site infeasibility precludes construction to the width shown, the landing width may be decreased to 3'-0" minimum. The running slope of the curb ramp may be steepened to a maximum of 10:1 for a maximum 6 in. rise.
- ⑥ Drainage inlets should be located uphill from curb ramps to prevent puddles at the path of travel.
- ⚠ Algebraic difference in grade between the base of curb ramp and the gutter shall be limited to less than 11%. If it is not practical, a 2'-0" wide level strip shall be provided. See detail sketch.
- ⚠ Minimum recommended width of curb ramp is 4'-0"



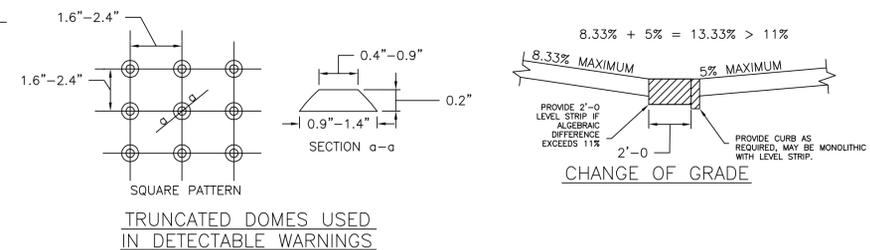
**8 INDOT/CITY OF BLOOMINGTON HANDICAP RAMPS**  
C501 INDOT STANDARD DRAWING E 604-SWCR-02



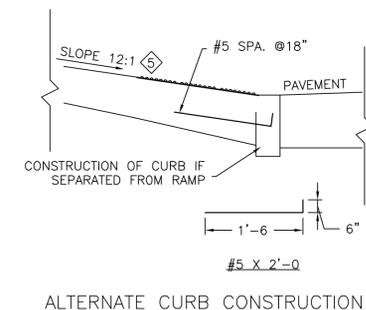
NOTES:

- ◆ See Standard Drawing E 604-SWCR-02 for General Notes respectively.
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  - ⑨ Sidewalk across approach shall be sloped at 50:1 maximum transversely.
  - ⑩ Vertical face curb optional.
  - ⚠ See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
- \*NOTE: CONTRACTOR TO PROVIDE A 3/4" LIP FOR HANDICAP RAMPS ABOVE ADJACENT PAVEMENT

**7 SIDEWALK CURB RAMP TYPE 'G'**  
C501



DETAIL OF RAMP GROOVES



City of Bloomington  
Kinser Pike Sidewalk  
Improvements at State Road  
45/46 Bypass

Kinser Pike  
Bloomington, Indiana 47404

BRG Project No: 6612

SITE DETAILS

Date: 9-17-09 Issue: CONSTRUCTION DOCUMENTS

Drawn By: DJB  
Designed By: DJB  
Checked By: WSR  
Scale: NO SCALE

C501

# GENERAL NOTES

- ALL SIGNAGE AND INSTALLATION SHALL COMPLY WITH THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROLS, TRAFFIC HIGHWAY CONTROLS FOR STREET, CONSTRUCTION AND MAINTENANCE OPERATIONS, AND THE INDOT TRAFFIC CONTROL SAFETY MANUAL.
- COORDINATE ALL LOCATIONS WITH CITY ENGINEERING AND INDOT PRIOR TO INSTALLATION.

SIGN NUMBER	SIGN MESSAGE	SIGN SIZE	SIGN COLOR	
			BACKGROUND	TEXT
W20-5	RIGHT TURN LANE CLOSED AHEAD	48" X 48"	ORANGE	BLACK
W20-1	ROAD CONSTRUCTION AHEAD	48" X 48"	ORANGE	BLACK
AWA	ADVANCE WARNING ARROW DISPLAY FLASHING CAUTION	48" X 24" DISPLAY	BLACK	YELLOW LIGHTS
W20-5 (B)	LEFT TURN LANE CLOSED AHEAD	48" X 48"	ORANGE	BLACK
G20-2	END CONSTRUCTION	48" X 24"	ORANGE	BLACK

**Bledsoe Riggert Guerrette**  
LAND SURVEYING CIVIL ENGINEERING

1351 West Tapp Road  
Bloomington, Indiana 47403  
Phone: 812.336.8277  
Fax: 812.336.0817  
www.brgcivil.com

BLOOMINGTON BEDFORD PAOLI



*W.S.R.*

City of Bloomington  
Kinser Pike Sidewalk  
Improvements at State Road  
45/46 Bypass

Kinser Pike  
Bloomington, Indiana 47404

BRG Project No: 6612

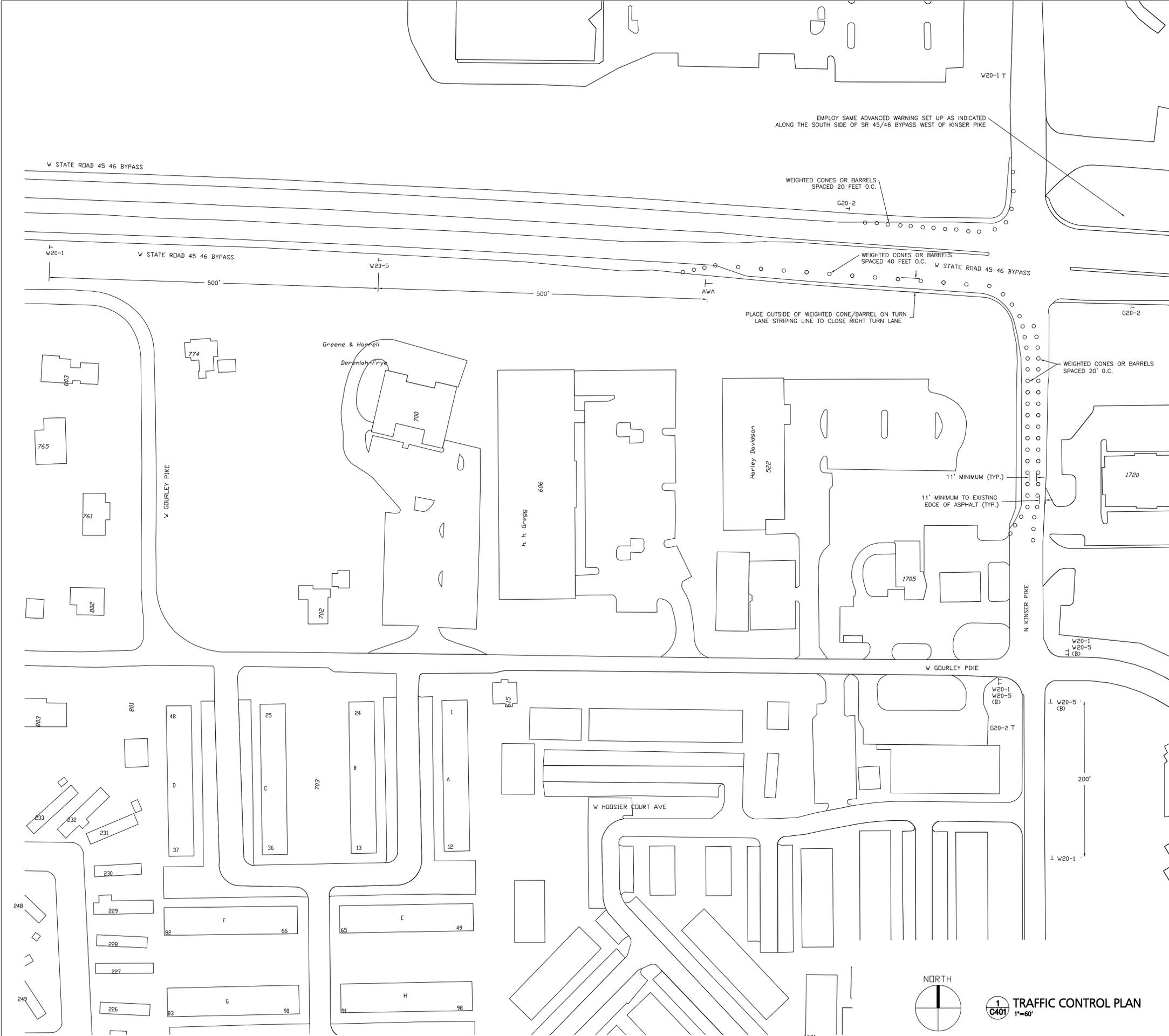
## TRAFFIC CONTROL PLAN

Date: 9-17-09 Issue: CONSTRUCTION DOCUMENTS

Drawn By: DJB  
Designed By: DJB  
Checked By: WSR

Scale: 1" = 60'

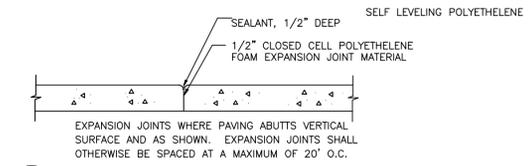
# C401



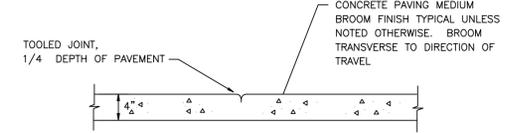
HOLEY MOLEY SAYS  
"DIG SAFELY"



"IT'S THE LAW"  
CALL 2 WORKING DAYS BEFORE YOU DIG  
1-800-382-5544  
CALL TOLL FREE  
PER INDIANA STATE LAW (CS-1)-26,  
IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.

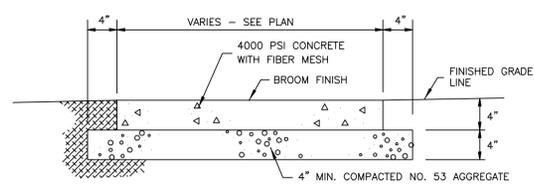


**1**  
**C502** TYPICAL EXPANSION JOINT



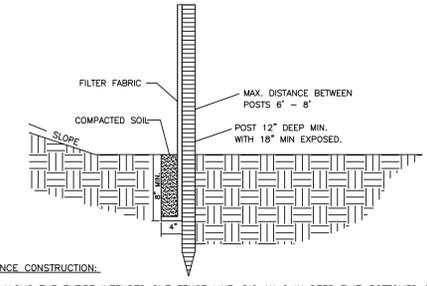
TYPICAL SECTION  
TOOLED SCORE JOINTS SHALL BE SPACED 5' ON CENTER UNLESS OTHERWISE NOTED OR SHOWN.

**2**  
**C502** SIDEWALK LONGITUDINAL SECTION AND JOINT DETAIL



**3**  
**C502** CONCRETE SIDEWALK

DNR SOIL CONSERVATION SERVICE—PRACTICE 3.74  
SILT FENCE (SEDIMENT FENCE)



- FENCE CONSTRUCTION:**
- ALONG THE ENTIRE INTENDED SILT FENCE LINE, DIG AN 8 IN DEEP FLAT-BOTTOMED OR V-SHAPED TRENCH.
  - ON THE DOWNSLOPE SIDE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 FT INTO THE GROUND (THE DEEPER THE BETTER), SPACING THEM NO MORE THAN 8 FT APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 FT APART IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE. (NOTE: IF THE FENCE HAS PRE-ATTACHED POSTS OR STAKES, DRIVE THEM DEEP ENOUGH SO THE FABRIC IS SATISFACTORILY IN THE TRENCH AS DESCRIBED IN STEP 6.)
  - FASTEN SUPPORT WIRE FENCE (IF THE MANUFACTURER RECOMMENDS ITS USE) TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 IN INTO THE TRENCH.
  - RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC IN FRONT (UPSLOPE) OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
  - IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
  - PLACE THE BOTTOM 1 FT OF FABRIC IN THE 8-IN DEEP TRENCH, EXTENDING THE REMAINING 4-IN TOWARD THE UPSLOPE SIDE.
  - BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.

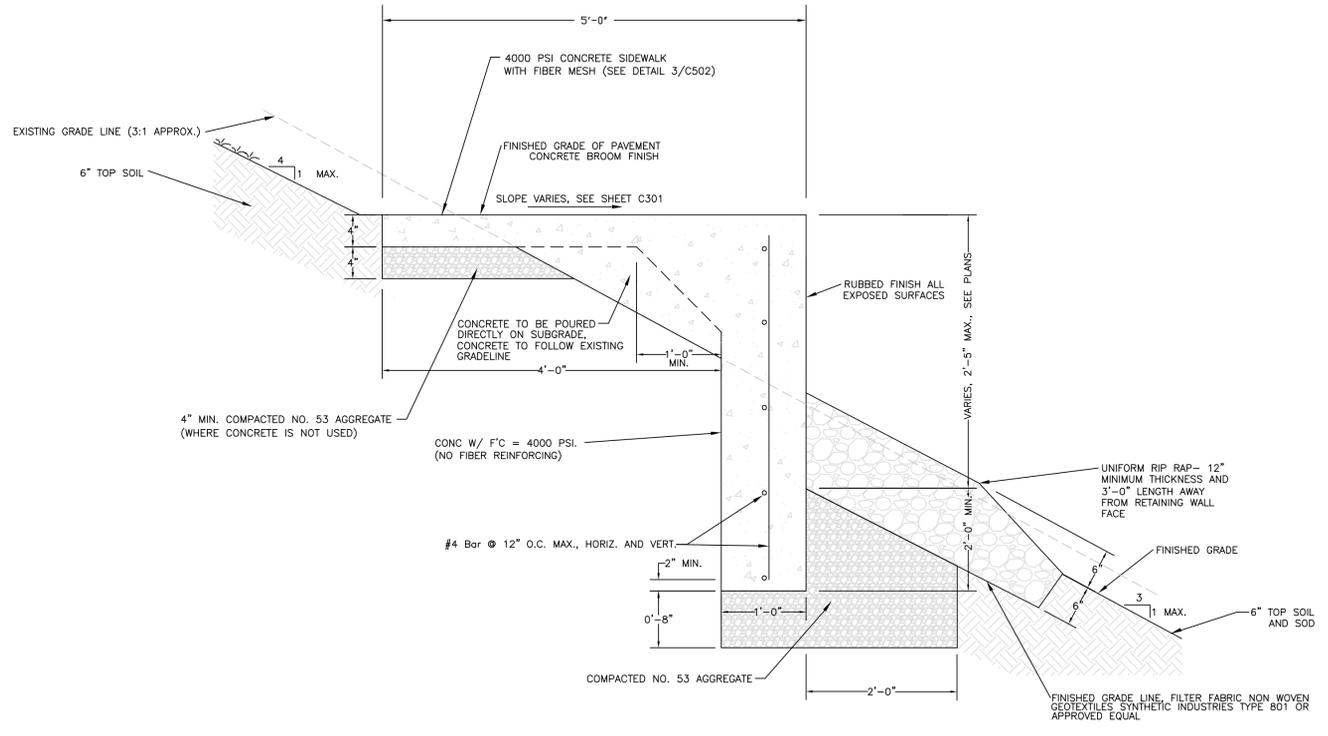
NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**SILT FENCE FABRIC SPECIFICATIONS**

PHYSICAL PROPERTY	WOVEN FABRIC	NON-WOVEN FABRIC
FILTERING EFFICIENCY	85%	85%
TENSILE STRENGTH AT 20% ELONGATION:		
STANDARD STRENGTH	30 LBS/LIN IN	50 LBS/LIN IN
EXTRA STRENGTH	50 LBS/LIN IN	70 LBS/LIN IN
SLURRY FLOW RATE	0.3 GAL/MIN/SF	4.5 GAL/MIN/SF
WATER FLOW RATE	1.5 GAL/MIN/SF	220 GAL/MIN/SF
UV RESISTANCE	70%	85%

- MAINTENANCE:**
- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
  - IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
  - REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
  - TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
  - AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

**4**  
**C502** SILT FENCE



**5**  
**C502** INTEGRAL WALL AND WALK SECTION DETAIL  
NOT TO SCALE



SITE DETAILS

Date:	Issue:
9-17-09	CONSTRUCTION DOCUMENTS