SITE PACKAGE

## CONSTRUCTION DOCUMENTS

ENGINEER'S PROJECT NO. 6616
SEPTEMBER 24, 2010

# EAST THIRD STREET
# SIDEWALK IMPROVEMENTS

## SHEET INDEX


C100 TITLE SHEET
C101 EXISTING SITE CONDITION PLANS
C201 SELECTIVE SITE DEMOLITION PLANS
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C401 SITE GRADING AND DRAINAGE PLANS
C501 TRAFFIC CONTROL PHASING PLAN
C601 SITE DETAILS
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C603 SITE DETAILS


## SPECIFICATIONS

REFER TO CITY OF BLOOMINGTON STANDARD SPECIFICATIONS
REFER TO INDOT STANDARD SPECIFICATIONS

A1 PROJECT LOCATION MAP
NTS

## OWNER'S ADDRESS:

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

## PROJECT ADDRESS:

EAST THIRD STREET
S. BRYAN AVE. - S. HILLSIDE DR.

## STAMPS & APPROVALS:

WILLIAM STUART RIGGERT
REGISTERED
NO. 870231
STATE OF
INDIANA
PROFESSIONAL ENGINEER


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

1351 West Tapp Road
Bloomington, Indiana 47403

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

1 C101 EXISTING SITE CONDITION PLAN

NORTH

## CONTROL POINTS

| POINT # | DESCRIPTION | NORTHING | EASTING | ELEVATION |
|---|---|---|---|---|
| 1560 | SET NAIL | 1426754.92 | 3116735.37 | 818.83 |
| 1774 | SET NAIL | 1426757.22 | 3116435.68 | 829.91 |
| 1775 | SET MAG NAIL | 1426763.50 | 3116113.59 | 833.43 |
| 2168 | SET NAIL | 1426649.68 | 3116503.16 | 824.91 |
| 2181 | SET NAIL | 1426860.72 | 3117146.68 | 817.52 |

# 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
- ELECTRIC POLE
- UTILITY POLE
- GUY WIRE
- WATER VALVE
- (WM) WATER METER
- WS WATER SPIGOT
- SANITARY MANHOLE
- POST
- X X FENCE LINE
- TR TELEPHONE RISER
- MB MAILBOX
- (GV) GAS VALVE
- (FH) FIRE HYDRANT
- 2"PINE TREE
- SHRUB
- STREET SIGN
- GM GAS METER
- (ST) STORM MANHOLE
- STORM INLET
- GR GAS RISER
- CO CLEAN OUT
- (MH) MANHOLE
- EM ELECTRIC METER
- DS DOWNSPOUT
- (SA) SANITARY MANHOLE
- (SG) SIGNAL MANHOLE
- (SP) SIGNAL POLE
- (PH) COMMUNICATIONS MANHOLE

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BLOOMINGTON BEDFORD PAOLI


WILLIAM STUART LISTER
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STATE OF
INDIANA
PROFESSIONAL ENGINEER

# City of Bloomington East Third Street Sidewalk Improvements

S. Bryan Ave. - S. Hillsdale Dr.

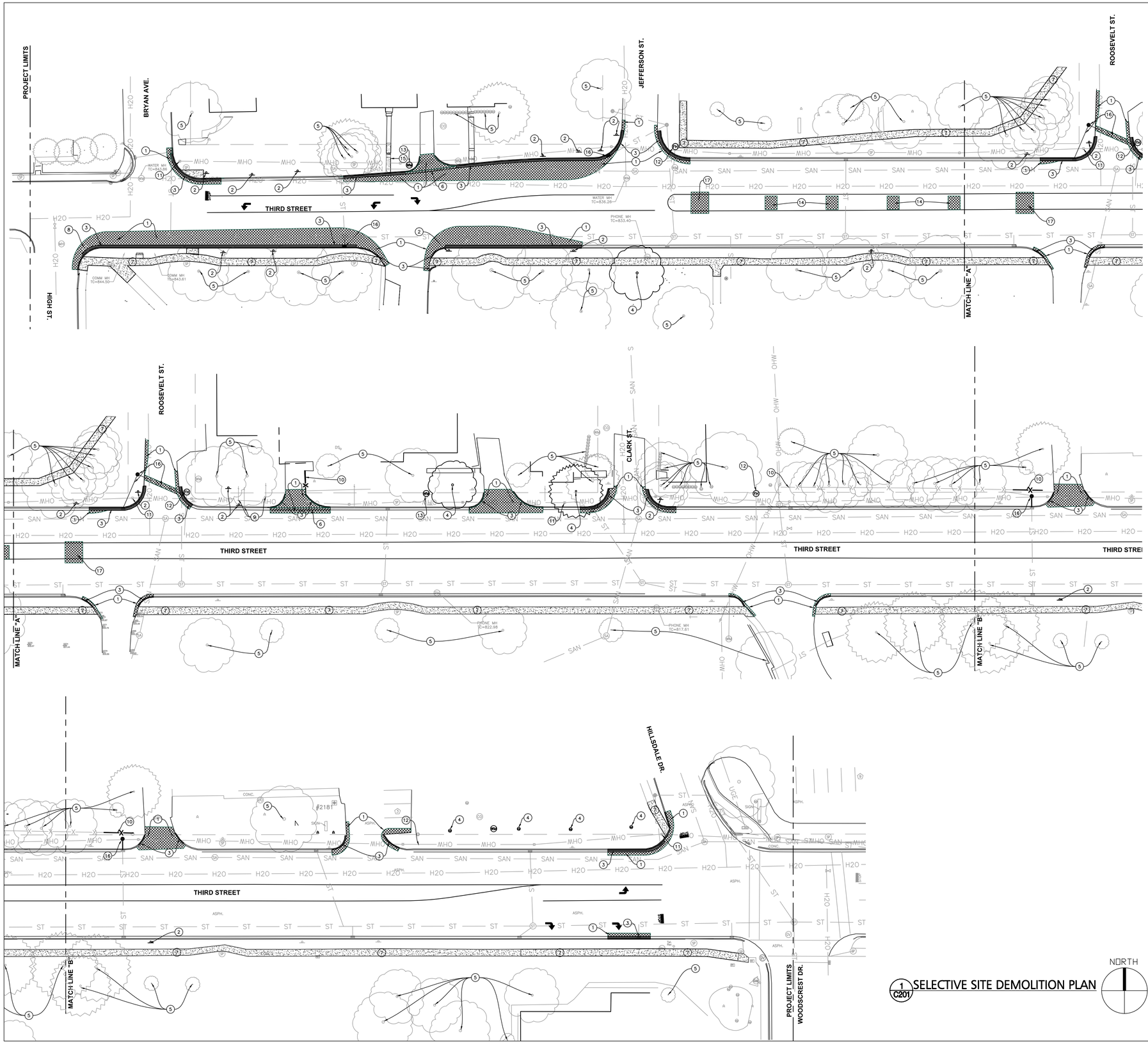
BRG Project No: 6616

## EXISTING SITE CONDITION PLAN

| Date: | Issue: |
|---|---|
| 09.24.2010 | CONSTRUCTION DOCUMENTS |

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

C101




1 C201 SELECTIVE SITE DEMOLITION PLAN

# SITE DEMOLITION NOTES

1. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.

2. 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.

3. CONTRACTOR SHALL IMPLEMENT THE STORMWATER POLLUTION PREVENTION MEASURES NECESSARY PRIOR TO START OF WORK TO ENSURE SEDIMENT DOES NOT LEAVE THE SITE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND IMPLEMENTING EROSION CONTROL MEASURES AS NECESSARY TO ENSURE SEDIMENT DOES NOT LEAVE THE SITE THROUGHOUT THE DURATION OF THE PROJECT.

4. 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.

5. REMOVE EXISTING STRUCTURES, ASPHALT, CONCRETE, GRAVEL, SOIL, LANDSCAPING AND OTHER MATERIALS AS REQUIRED TO CONSTRUCT DESIGNED IMPROVEMENTS UNLESS NOTED OTHERWISE.

6. CONTRACTOR SHALL SAW CUT ALONG PAVEMENTS AND OTHER ADJOINING SURFACES TO REMAIN. SIDEWALKS AND CURBS SHALL BE REMOVED TO THE NEXT CLOSEST JOINT BEYOND. ASPHALT PAVING AREAS SHOWN TO BE REMOVED INDICATE THE MINIMUM AREA NEEDED FOR CONSTRUCTION. CONTRACTOR SHALL SAW CUT THESE AREAS IN A SERIES OF STRAIGHT LINES AS NEEDED TO ENCOMPASS THE MINIMUM AREAS INDICATED.

7. AREAS DISTURBED DURING DEMOLITION, CONSTRUCTION, AND GRADING ACTIVITIES SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY WORK IN ORDER TO COMPLETE THE PROJECT AS DESIGNED.

9. CONTRACTOR SHALL PROVIDE ADVANCE WARNING SIGNAGE, BARRICADES AND FLAGGERS AS REQUIRED WHEN WORKING ALONG, NEAR, OR WITHIN THE CITY OF BLOOMINGTON'S STREETS AND ALLEYS. 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, ALLEY OR PORTION THEREOF. THE CONTRACTOR SHALL CONTACT THE CITY OF BLOOMINGTON PUBLIC WORKS DEPARTMENT AT (812) 349-3410 TO MAKE NECESSARY ARRANGEMENTS. CONTACT THE CITY FOR ADDITIONAL DETAILS.

# DEMOLITION PLAN NOTES

1. EXISTING PAVEMENT TO BE REMOVED.
2. EXISTING SIGN SHALL BE REMOVED AND RELOCATED. SIGN SHALL BE RE-INSTALLED IN ORIGINAL OR BETTER CONDITION. COORDINATE WITH OWNERS REPRESENTATIVE FOR LOCATION.
3. EXISTING CONCRETE CURB TO BE SAWCUT AND REMOVED.
4. EXISTING TREE/SHRUB TO BE REMOVED.
5. EXISTING TREE/SHRUB SHALL REMAIN AND BE PROTECTED
6. EXISTING CONCRETE GUTTER TO BE REMOVED
7. EXISTING CONCRETE PAVEMENT TO BE REMOVED
8. EXISTING GAS VALVE TO BE REMOVED AND RELOCATED PER OWNERS DIRECTION.
9. EXISTING HEADWALL TO BE REMOVED. EXISTING PIPE TO BE EXTENDED TO THE NEAREST STORM STRUCTURE WHILE MAINTAINING POSITIVE FLOW. SEAL ALL CONNECTIONS WATER TIGHT. PIPE TO BE SCHEDULE 40 PVC EQUAL IN SIZE TO THE EXISTING. CONNECT WITH APPROPRIATE FITTINGS.
10. EXISTING FENCE SHALL BE REMOVED AND REINSTALLED PER OWNERS DIRECTION.
11. EXISTING LIGHT POLE SHALL BE REMOVED AND RELOCATED. COORDINATE WITH OWNER FOR LOCATION.
12. EXISTING FIRE HYDRANT TO BE REMOVED AND RELOCATED BY CBU PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH DAVEY MYERS OF CBU AT (812) 325-3766 AND THE BLOOMINGTON FIRE DEPARTMENT FOR RECONNECTION TO THE WATER MAIN PRIOR TO OTHER PROJECT CONSTRUCTION ACTIVITIES.
13. EXISTING WATER METER TO BE REPLACED. COORDINATE WITH CBU.
14. EXISTING ASPHALT PAVEMENT SECTION AND SOIL TO BE REMOVED TO A DEPTH ALLOWING THE PLANTING OF SPECIFIED TREES. REFER TO PLANTING DETAIL FOR FURTHER INFORMATION.
15. EXISTING STEPS TO BE REMOVED AND REPLACED, SEE SHEET C301 FOR MORE INFORMATION.
16. EXISTING STRUCTURE AND ASSOCIATED PIPING TO BE REMOVED. TIE PROPOSED PIPING INTO EXISTING CURB INLET TO REMAIN, REFER TO SHEET C401 FOR MORE INFORMATION. SEAL ALL CONNECTIONS WATER TIGHT. REFER TO STRUCTURE DATA TABLE FOR FURTHER INFORMATION.
17. EXISTING ASPHALT PAVEMENT SECTION TO BE REMOVED TO CREATE BULL NOSE SECTION OF CONCRETE CURBED ISLAND, REFER TO SHEET C301 AND CONCRETE CURBED ISLAND DETAIL FOR MORE INFORMATION

# DEMOLITION PLAN LEGEND

- LIMITS OF ASPHALT PAVEMENT TO BE REMOVED
- LIMITS OF CONCRETE PAVEMENT TO BE REMOVED
- LIMITS OF CONCRETE CURB TO BE REMOVED
- LIMITS OF CONCRETE GUTTER TO BE REMOVED
- SF — SILT FENCE
- TREE PROTECTION FENCE – REFER TO DETAIL

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WILLIAM STUART RIGGERT REGISTERED NO. 870231 STATE OF INDIANA PROFESSIONAL ENGINEER

City of Bloomington
Third Street
Sidewalk Improvements

Third Street
Bloomington, Indiana 47403

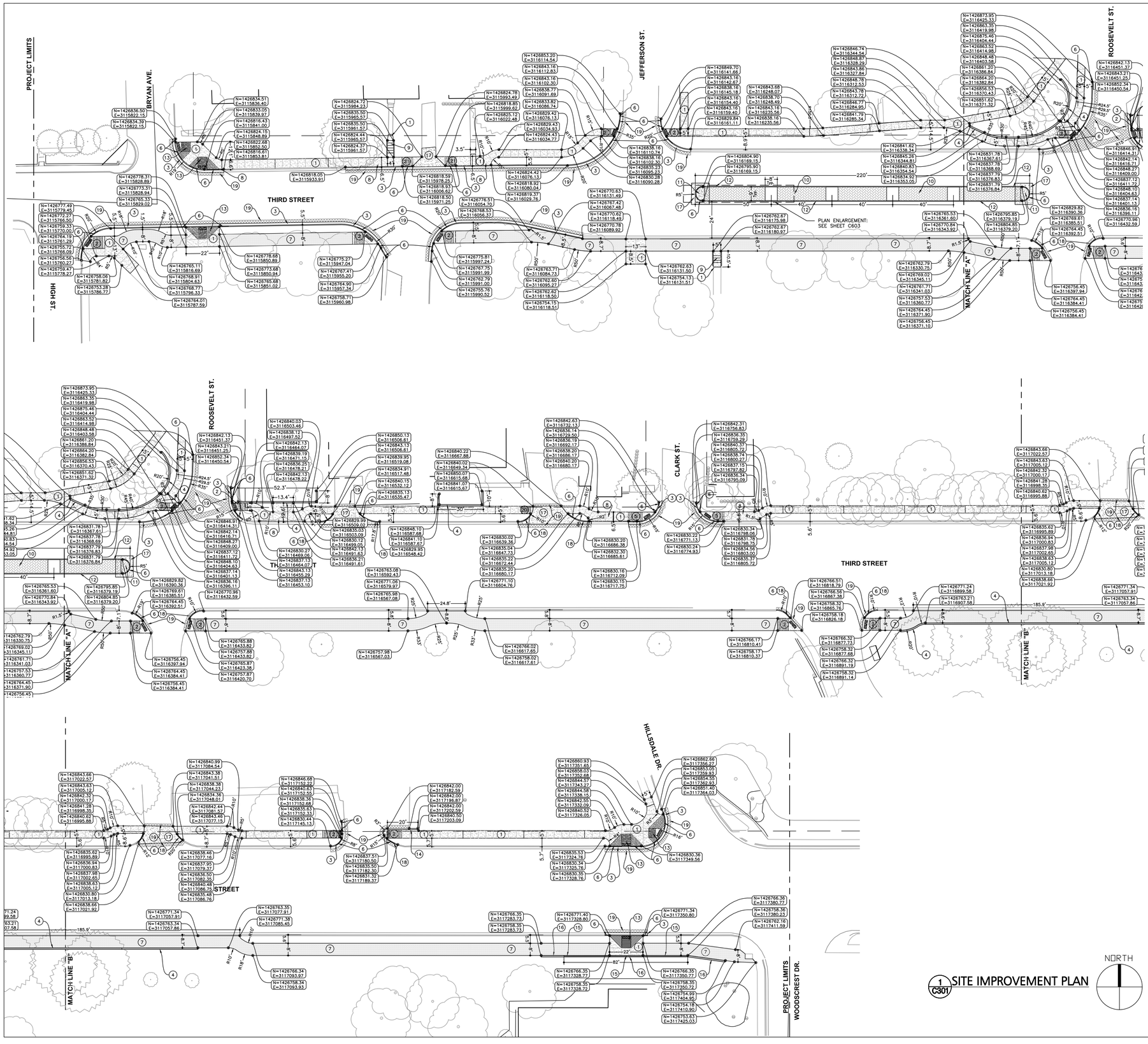
BRG Project No: 6616

SELECTIVE SITE DEMOLITION PLAN

| Date: | Issue: |
|---|---|
| 09.24.2010 | CONSTRUCTION DOCUMENTS |

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

C201




1 C301 SITE IMPROVEMENT PLAN

# SITE IMPROVEMENT NOTES

1. 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.
2. ALL RADII ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
3. CURB AND WALL COORDINATES ARE TO THE BACK, UNLESS NOTED OTHERWISE.
4. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
5. ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOP SOIL AND SOD OR BE IMPROVED AS NOTED OTHERWISE.
6. REFER TO PLAN FOR DETAILS CORRESPONDING TO PLAN NOTES.
7. ALL PAVEMENT WITHIN THE ROAD WAY SCHEDULED FOR REMOVAL AS PART OF THE CONCRETE CURB REPLACEMENTS SHALL BE REPLACED WITH A CITY OF BLOOMINGTON PAVEMENT PATCH, REFER TO DETAIL.
8. CONTRACTOR TO PLACE EXPANSION JOINTS WHERE EXISTING CONCRETE SIDEWALK MEETS PROPOSED CONCRETE SIDEWALK.
9. CONTRACTOR TO GRIND ALL EXISTING PAVEMENT STRIPING AND RE-APPLY PER PLAN

# IMPROVEMENT PLAN NOTES

1. CONCRETE PAVEMENT 4" THICK – REFER TO DETAIL
2. CITY OF BLOOMINGTON ADA COMPLIANT RAMP TYPE 'G' 6" THICK CONCRETE PAVEMENT WITH PLATES – REFER TO DETAIL
3. CONCRETE CURB AND GUTTER – REFER TO DETAIL
4. SEGMENTAL BLOCK RETAINING WALL – REFER TO DETAIL
5. CITY OF BLOOMINGTON ADA COMPLIANT RAMP TYPE 'H' 6" THICK CONCRETE PAVEMENT WITH PLATES– REFER TO DETAIL
6. CONCRETE CURB TRANSITION – REFER TO DETAIL
7. ASPHALT SIDE PATH – REFER TO DETAIL
8. INTEGRAL CURB AND WALK – REFER TO DETAIL
9. CONCRETE STAIRS WITH HANDRAILS – REFER TO DETAIL
10. BRICK PAVERS – REFER TO DETAIL
11. CURBED BULLNOSE APPROACH – REFER TO DETAIL
12. STANDING CONCRETE CURB TO BE PLACED ON TOP OF EXISTING ASPHALT – REFER TO DETAIL.
13. ADA COMPLIANT RAMP TYPE 'A' 6" THICK CONCRETE PAVEMENT – REFER TO DETAIL
14. MODIFIED STANDING CURB – REFER TO DETAIL.
15. GUARDRAIL – GUARDRAIL TO BE INSTALLED ON RETAINING WALL – REFER TO DETAIL
16. CONCRETE RETAINING WALL – REFER TO DETAIL
17. CONCRETE PAVEMENT 6" THICK – REFER TO DETAIL
18. 6" STANDING CURB – REFER TO DETAIL
19. ASPHALT PAVEMENT PATCH – REFER TO DETAIL
20. CITY OF BLOOMINGTON ADA COMPLIANT RAMP TYPE 'G' 6" THICK CONCRETE PAVEMENT – REFER TO DETAIL
21. CITY OF BLOOMINGTON ADA COMPLIANT RAMP TYPE 'H' 6" THICK CONCRETE PAVEMENT – REFER TO DETAIL

# IMPROVEMENT LEGEND

- LIMITS OF NEW ASPHALT SIDEPATH
- LIMITS OF NEW 4" THICK CONCRETE PAVING
- LIMITS OF NEW BRICK PAVERS
- LIMITS OF ASPHALT PAVEMENT PATCH
- LIMITS OF NEW 6" THICK CONCRETE PAVING

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SITE IMPROVEMENT PLAN

| Date: | Issue: |
|---|---|
| 09.24.2010 | CONSTRUCTION DOCUMENTS |

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

C301

## PLANTING SCHEDULE

| CODE | QTY. | BOTANICAL NAME | COMMON NAME | SIZE | CONDITION |
|---|---|---|---|---|---|
| **Street Trees** | | | | | |
| COC | 15 | Celtis occidentalis 'Chicagoland' | CHICAGOLAND HACKBERRY | 2–1/2" Caliper | B&B |
| GBAG | 15 | Ginkgo biloba 'Autumn Gold' | AUTUMN GOLD MAIDENHAIR TREE | 2–1/2" Caliper | B&B |
| GBF | 4 | Ginkgo biloba 'Fastigiata' | FASTIGIATA MAIDENHAIR TREE | 2–1/2" Caliper | B&B |

1 C302 SITE STRIPING AND LANDSCAPE PLAN

NORTH

# GENERAL NOTES

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND VERIFY SITE CONDITION INFORMATION ON DRAWINGS PRIOR TO STARTING WORK. PROMPTLY REPORT ANY DISCREPANCIES OR DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLAN TO DESIGNER AND OWNER. THE OWNER IS NOT RESPONSIBLE FOR UNAUTHORIZED CHANGES OR EXTRA WORK REQUIRED TO CORRECT UNREPORTED DISCREPANCIES.

2. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND INDOT DESIGN MANUAL – CHAPTER 76.

3. REFER TO PLAN FOR DETAILS CORRESPONDING TO PLAN NOTES.

4. CONTRACTOR TO GRIND ALL EXISTING PAVEMENT MARKINGS AND RE–APPLY PER PLAN

# SITE LANDSCAPING NOTES

1. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES AND CONDITIONS SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON THE LANDSCAPE PLAN. PLANT MATERIAL QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE TO THOSE ON THE PLANT LIST.

2. ALL PLANT MATERIAL SHALL CONFORM TO ANSI Z 60–1996 AND CURRENT ASSOCIATION OF AMERICAN NURSERYMEN STANDARDS. NO PARK GRADE MATERIAL SHALL BE ACCEPTED.

3. SPECIMEN SIZES INDICATED ON PLANT SCHEDULE ARE MINIMUM ACCEPTABLE SIZES. LARGER SPECIMENS MAY BE UTILIZED.

4. ALL TREES SHALL RECEIVE A 4' MIN. DIAMETER MULCH RING AT BASE, WITH 4" THICK SHREDDED HARDWOOD MULCH OVER WEED BARRIER.

5. ALL LANDSCAPED AREAS NOT MULCHED SHALL BE SEEDED OR SODDED AS INDICATED, UNLESS NOTED OTHERWISE. ALL OTHER AREAS DISTURBED, GRADED OR OTHERWISE MODIFIED BY NEW CONSTRUCTION SHALL RECEIVE 6" OF TOP SOIL, SEED, FERTILIZER AND MULCH. SEE INDOT STANDARD SPECIFICATION "R" FOR SEEDING REQUIREMENTS.

6. ALL PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISH GRADE AS THE PLANT'S ORIGINAL GRADE PRIOR TO DIGGING. ALL PLANTS SHALL BE SET PLUMB. UNLESS NOTED OTHERWISE, IT IS THE CONTRACTOR'S OPTION TO STAKE TREES. HOWEVER, IT SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY TO ASSURE PLANTS REMAIN PLUMB UNTIL THE END OF CONTRACTED GUARANTEE PERIOD.

7. ALL PLANTINGS SHALL BE WATERED DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. WATER THOROUGHLY TO ENSURE ALL AIR POCKETS ARE REMOVED AROUND ROOT BALL.

8. CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING PLANT MATERIAL UNTIL TIME OF ACCEPTED ESTABLISHMENT.

9. ALL PLANTING BED EDGES TO BE SPADE CUT UNLESS SPECIFIED WITH MOW STRIP OR OTHER INSTALLED EDGING.

10. PLACE BIODEGRADABLE STRAW BLANKET NORTH AMERICAN GREEN S150BN OR APPROVED EQUAL ON SLOPES OF OR EXCEEDING 3:1 OR AS OTHERWISE INDICATED OR DIRECTED BY ENGINEER.

11. COORDINATE LANDSCAPE PLAN WITH ALL WATER QUALITY AND EROSION CONTROL MEASURES.

12. COORDINATE FINAL LOCATION OF PLANTS WITH CITY FORESTER. FINAL LOCATIONS OF TREES SHOULD BE ADJUSTED IF NEEDED TO AVOID OVERHEAD AND UNDERGROUND UTILITIES.

13. ANY PLANT MATERIAL SUBSTITUTIONS INSTALLED WITHOUT APPROVAL FROM DESIGNER AND/OR OWNER SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

# PLAN NOTES

1. THERMO PLASTIC PAVEMENT MARKING – 6" WIDE WHITE CROSS WALK PER INDOT SECTION 913.14
2. THERMOPLASTIC PAVEMENT MARKING – STOP BAR 24" WIDE PER INDOT SECTION 808.07
3. THERMOPLASTIC PAVEMENT SYMBOL MARKING PER THE INDIANA MUTCD SECTION 3 STANDARDS
4. THERMOPLASTIC SHARED LANE SYMBOL MARKING PER THE INDIANA MUTCD 2009, CHAPTER 9C, SECTION 9C.07 STANDARDS.
5. THERMOPLASTIC PAVEMENT MARKING – WHITE CROSS WALK PER INDOT SECTION 913.14. CROSS WALK PAVEMENT MARKING TO BE 2' WIDE X 6' LONG WITH 2' SPACING BETWEEN. PAVEMENT MARKING TO BE PLACED 1' AWAY FROM THE EXISTING AND PROPOSED CURB LINES. PAVEMENT MARKING TO LINE UP WITH PROPOSED HANDICAP RAMPS.
6. THERMOPLASTIC PAVEMENT MARKING – DOUBLE 4" WIDE, SOLID YELLOW CHANNELIZING LINE PER THE INDOT DESIGN MANUAL
7. THERMOPLASTIC PAVEMENT MARKING – 4" WIDE, WHITE – SOLID CHANNELIZING LINE PER THE INDOT DESIGN MANUAL
8. THERMOPLASTIC PAVEMENT MARKING – 4" WIDE, WHITE – BROKEN LANE LINE PER THE INDOT DESIGN MANUAL
9. THERMOPLASTIC PAVEMENT MARKING – 4" WIDE, YELLOW – SINGLE DOTTED LINE PER THE INDOT DESIGN MANUAL
10. THERMOPLASTIC PAVEMENT MARKING – 4" WIDE, YELLOW – SOLID CHANNELIZING LINE PER THE INDOT DESIGN MANUAL
11. THERMOPLASTIC PAVEMENT MARKING – 4" WIDE, YELLOW – BROKEN CHANNELIZING LINE PER THE INDOT DESIGN MANUAL

# LEGEND

- LIMITS OF ASPHALT SIDEPATH
- LIMITS OF CONCRETE PAVING
- LIMITS OF BRICK PAVERS
- GBF — STREET TREE CODE

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# City of Bloomington
# Third Street
# Sidewalk Improvements

Third Street
Bloomington, Indiana 47403

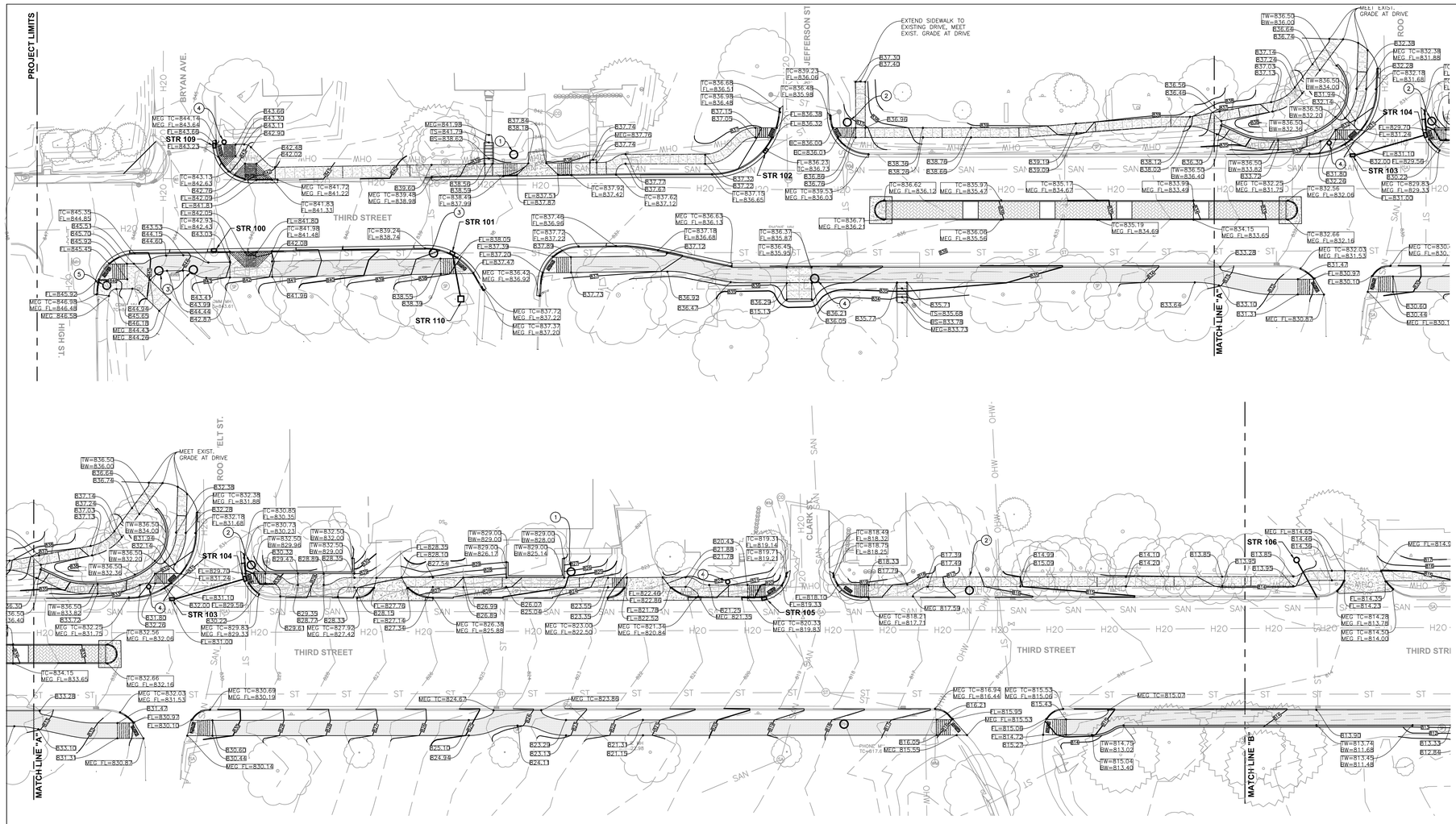
BRG Project No: 6616

## SITE STRIPING AND LANDSCAPE PLAN

| Date: | Issue: |
|---|---|
| 08/18/10 | CONSTRUCTION DOCUMENTS |

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

C302




# GENERAL GRADING NOTES

1. GRADE ALL AREAS TO THE FINISH GRADES SHOWN.

2. CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSED GRADING PLANS AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BEGINNING WORK.

3. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHERE NECESSARY TO CONTROL SEDIMENT.

4. 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.

5. CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE.

6. CONTRACTOR SHALL ESTABLISH FINISH GRADES TO ENSURE POSITIVE DRAINAGE WITH NO PONDING.

# PLAN NOTES

1. RELOCATED WATER METER. CONTRACTOR TO COORDINATE WITH C.B.U.
2. RELOCATED FIRE HYDRANT. CONTRACTOR TO COORDINATE WITH C.B.U.
3. ADJUST CASTING TO NEW FINISHED GRADE
4. RELOCATED LIGHT POLE. CONTRACTOR TO COORDINATE WITH DUKE ENERGY/OWNERS REPRESENTATIVE.
5. RELOCATED GAS VALVE. CONTRACTOR TO COORDINATE WITH VECTREN/OWNERS REPRESENTATIVE
6. ADJUST TELEPHONE RISER TO GRADE, CONTRACTOR TO COORDINATE WITH AT&T/OWNERS REPRESENTATIVE.

# LEGEND

| | |
|---|---|
| | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| 000.00 | SPOT ELEVATION |
| MEG | MEET EXISTING GRADE |
| TW | TOP OF WALL |
| BW | BOTTOM OF WALL AT GRADE ELEVATION |
| TS | TOP OF STAIR |
| BS | BOTTOM OF STAIR |
| FL | FLOWLINE |
| TC | TOP OF CURB |
| | LIMITS OF ASPHALT SIDEPATH |
| | LIMITS OF CONCRETE PAVING |
| | LIMITS OF PERMEABLE BRICKS |

## STORM STRUCTURE DATA TABLE

| STR. # | CASTING | STRUCTURE TYPE | UP STR # | DN STR # | PIPE SPECIFICATIONS LENGTH | SIZE | TYPE | SLOPE | UP INV | DN INV | TOP OF CASTING | RIM ELEVATION | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | EJIW 7505 | EXIST. MANHOLE | – | – | – | – | – | – | – | – | – | – | Ⓐ |
| 101 | EJIW 7565 | INLET TYPE 'C' | – | – | – | – | – | – | 832.40 | – | 838.68 | 838.18 | Ⓑ |
| 102 | EJIW 7505 | INLET TYPE 'J' | – | – | – | – | – | – | – | – | 836.73 | 836.23 | Ⓒ |
| 103 | EJIW V5660 | EXISTING INLET | – | EXISTING | 38' | 12" | HDPE | 4.08% | 828.37 | 826.82 | 830.87 | 830.87 | Ⓓ |
| 104 | EJIW V5660-80 | EXISTING INLET | – | – | – | – | – | – | – | – | 829.62 | 829.62 | Ⓓ |
| 105 | EJIW V5660 | EXISTING INLET | – | – | – | – | – | – | – | – | 819.62 | 819.62 | Ⓕ |
| 106 | EJIW 6610 | INLET TYPE "E" | – | EXISTING | 22' | 12" | HDPE TYPE 'S' | 2.00% | 811.00 | 810.56 | – | 813.00 | Ⓖ |
| 107 | EJIW V5660 | EXISTING INLET | – | – | – | – | – | – | – | – | 812.87 | 812.87 | Ⓕ |
| 108 | EJIW V5660 | EXISTING INLET | – | – | – | – | – | – | – | – | 812.50 | 812.50 | Ⓕ |
| 109 | EJIW V5660-80 | EXISTING INLET | – | – | – | – | – | – | – | – | 843.66 | 843.66 | Ⓕ |
| 110 | EJIW 6610 | INLET TYPE "E" | – | 101 | 24' | 15" | HDPE TYPE 'S' | 4.29% | 834.03 | 833.00 | 836.53 | 836.53 | |

EJIW = EAST JORDAN IRON WORKS OR APPROVED EQUAL

COMMENTS:

Ⓐ REMOVE EXISTING CONE SECTION AND REPLACE WITH ONE BARREL SECTION AND FLAT MANHOLE TOP. FORM TOP TO ACCEPT NEW INLET – EJIW 7505. CONTRACTOR TO FIELD VERIFY AND DETERMINE APPROPRIATE BARREL SECTION HEIGHT TO ENSURE THAT INLET IS SET AT THE PROPOSED GUTTER ELEVATION.

Ⓑ CONTRACTOR TO CUT INTO EXISTING STORM PIPE, CONSTRUCT NEW INLET, INSTALL NEW CASTING AND SEAL ALL CONNECTIONS WATER TIGHT.

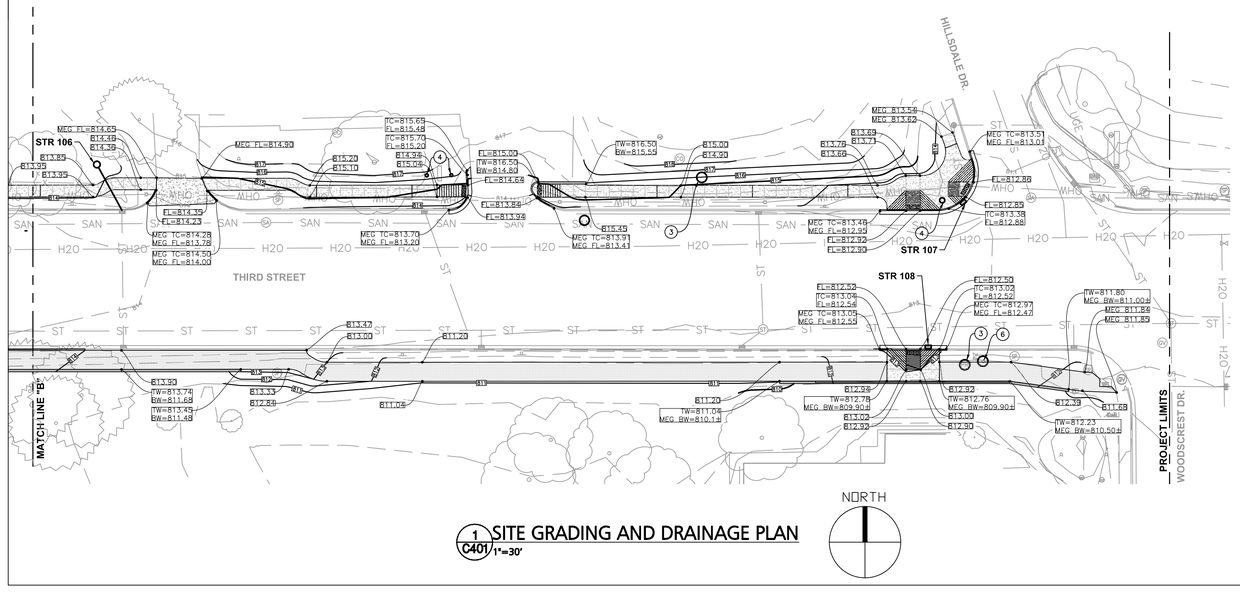
Ⓒ CONTRACTOR TO INSTALL NEW INLET TO ACCEPT EXISTING STORM PIPE. SEAL STRUCTURE AND ALL CONNECTIONS WATER TIGHT.

Ⓓ CONTRACTOR SHALL INSTALL NEW PIPE AND MODIFY STRUCTURE TO ACCEPT NEW SOLID CASTING AND PIPES. SEAL STRUCTURE AND ALL CONNECTIONS WATER TIGHT.

Ⓔ CONTRACTOR TO CONSTRUCT A CAST-IN-PLACE STRUCTURE IN ORDER TO ACCEPT A EJIW 1020 TYPE A SOLID COVER, LOCATED OFF CENTER OF STRUCTURE AND BEHIND CURB LINE TO MEET FINISHED GRADE.

Ⓕ CONTRACTOR TO REMOVE EXISTING CASTING, MODIFY STRUCTURE AND INSTALL NEW CASTING TO MEET FINISHED GRADE.

Ⓖ CONNECT PIPE TO EXISTING INLET STRUCTURE. SEAL ALL CONNECTIONS AND STRUCTURE WATER TIGHT.




1 C401 SITE GRADING AND DRAINAGE PLAN 1"=30'

Bledsoe Riggert Guerrettaz
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

WILLIAM STUART SCHELLER REGISTERED NO. 870231 STATE OF INDIANA PROFESSIONAL ENGINEER

City of Bloomington
Third Street
Sidewalk Improvements

Third Street
Bloomington, Indiana 47403

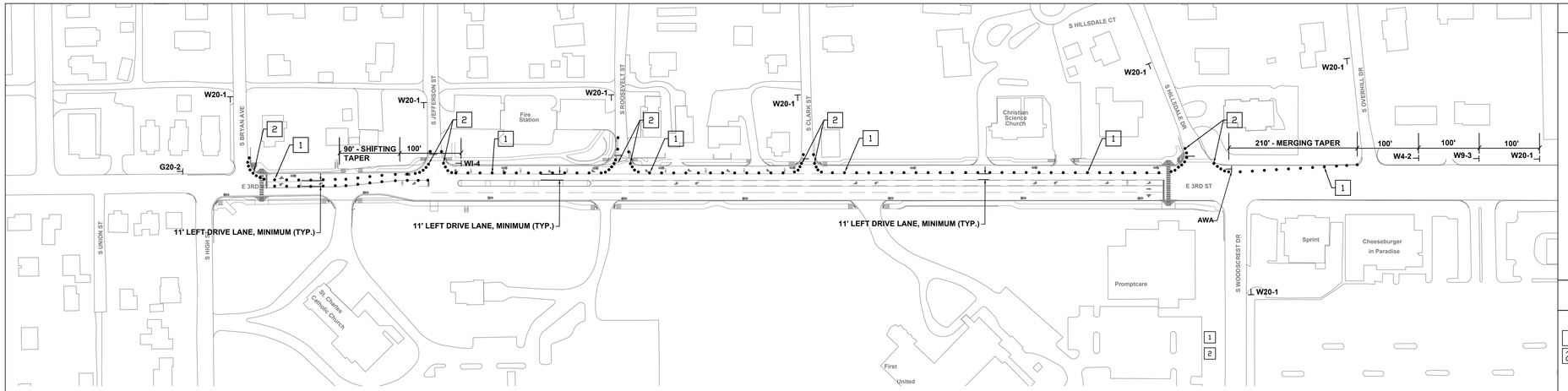
BRG Project No: 6616

SITE GRADING AND DRAINAGE PLAN

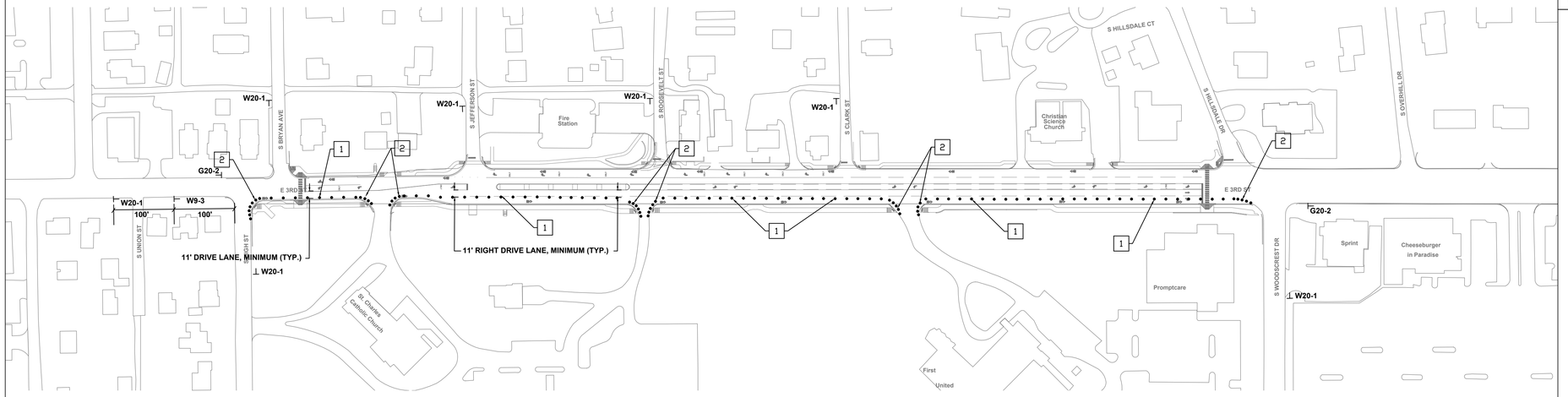
| Date: | Issue: |
|---|---|
| 09.28.2010 | CONSTRUCTION DOCUMENTS |

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

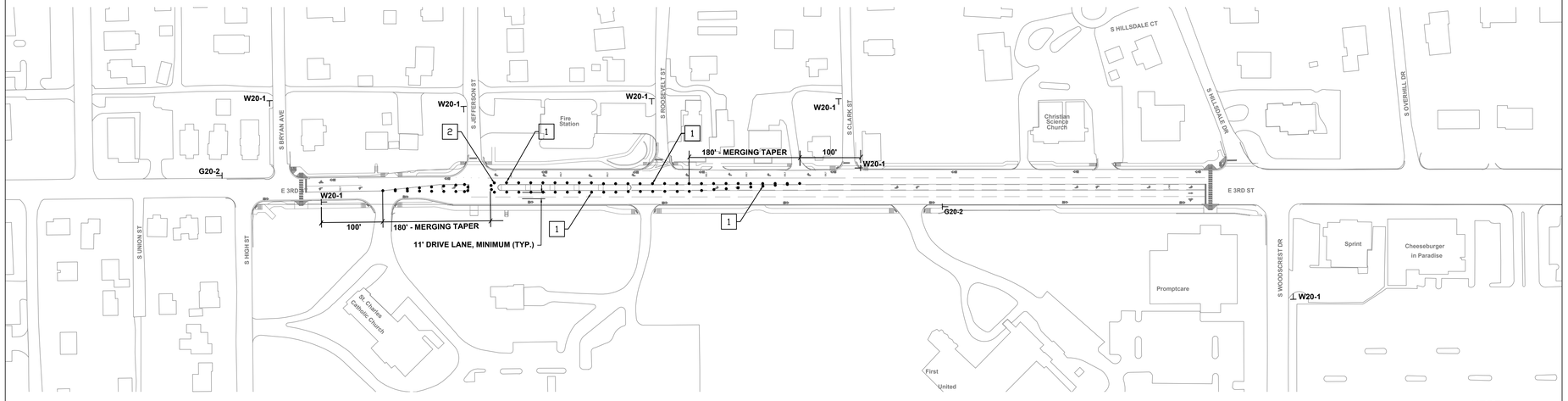
C401




PHASE 1 - NORTH SIDE IMPROVEMENTS




PHASE 2 - SOUTH SIDE IMPROVEMENTS




PHASE 3 - CENTER LANE ISLAND IMPROVEMENTS

1 C501 TRAFFIC CONTROL PLAN
1"=100'

NORTH

# GENERAL NOTES

1. 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 AND CONSTRUCTION AND MAINTENANCE OPERATIONS.
2. COORDINATE ALL LOCATIONS WITH CITY ENGINEERING PRIOR TO INSTALLATION.

| SIGN NUMBER | SIGN MESSAGE | SIGN SIZE | SIGN COLOR | |
|---|---|---|---|---|
| | | | BACKGROUND | COPY |
| W9-3 | RIGHT LANE CLOSED AHEAD | 36" X 36" | ORANGE | BLACK |
| W20-1 | ROAD CONSTRUCTION AHEAD | 36" X 36" | ORANGE | BLACK |
| AWA | ADVANCE WARNING ARROW DISPLAY FLASHING LEFT ARROW | 48" X 24" DISPLAY | BLACK | YELLOW LIGHTS |
| G20-2 | END CONSTRUCTION | 36" X 18" | ORANGE | BLACK |
| W4-2 | RIGHT LANE ENDS (SYMBOL) | 36" X 36" | ORANGE | BLACK |
| WI-4 | REVERSE CURVE LEFT(SYMBOL) | 36" X 36" | ORANGE | BLACK |
| AWA (B) | ADVANCE WARNING ARROW DISPLAY FLASHING RIGHT ARROW | 48" X 24" DISPLAY | BLACK | YELLOW LIGHTS |

# PLAN NOTES

1 WEIGHTED CONES OR BARRELS SPACED 20' O.C. (TYP.)
2 WEIGHTED CONES OR BARRELS SPACED 8' O.C. (TYP.)

# LEGEND

W4-2 ⊣ SIGN LOCATION AND IDENTIFICATION NUMBER (SEE TABLE)

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 IC8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.


Bledsoe Riggert Guerrettaz
LAND SURVEYING · CIVIL ENGINEERING
1351 West Tapp Road
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Phone: 812.336.8277
Fax: 812.336.0817
www.brgcivil.com
BLOOMINGTON BEDFORD PAOLI


WILLIAM STUART LISTER REGISTERED PROFESSIONAL ENGINEER NO. 870231 STATE OF INDIANA

City of Bloomington
Third Street
Sidewalk Improvements

Third Street
Bloomington, Indiana 47403

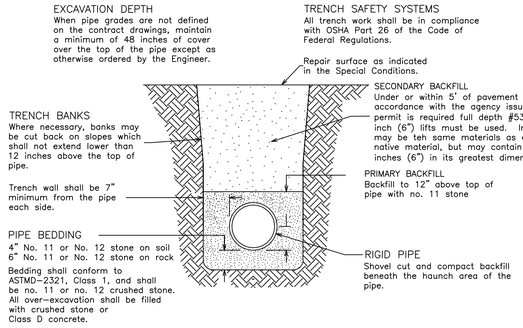
BRG Project No: 6616

TRAFFIC CONTROL PLAN

| Date: | Issue: |
|---|---|
| 09.24.2010 | CONSTRUCTION DOCUMENTS |

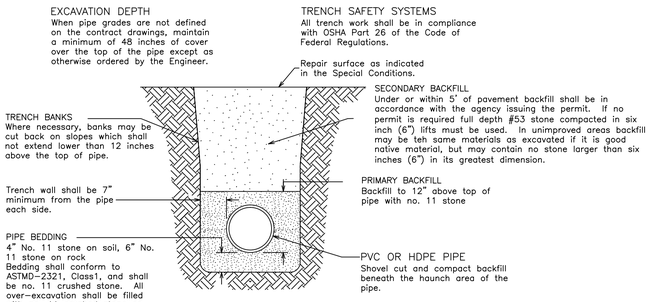
Drawn By: DLN
Designed By: DLN
Checked By: WSR
Scale: 1" = 100'

C501



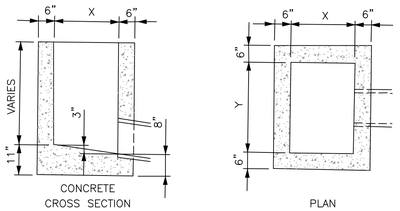

TYPICAL TRENCH SECTION

## 1 C601 BEDDING AND BACKFILL FOR RIGID PIPE




TYPICAL TRENCH SECTION

## 2 C601 BEDDING AND BACKFILL FOR PVC AND HDPE PIPE

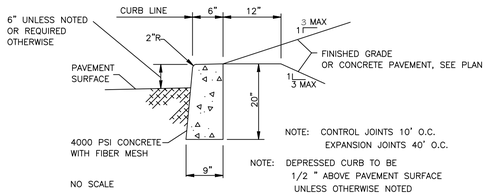



NOTE: BOX TO REST ON 4" OF COMPACTED NO. 11 STONE IF ON DIRT; 6" IF ON ROCK

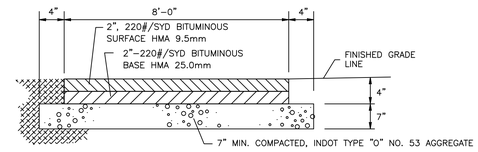
| TYPE | X | Y |
|---|---|---|
| A | 24" | 24" |
| B | 36 | 48" |
| C | 30" | 48" |
| E | 30" | 30" |
| J | 24" | 36" |

N.T.S.

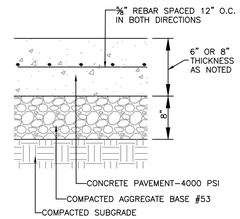
## 3 C601 STORM INLET DETAIL



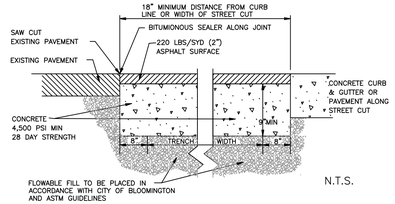

## 4 C601 STANDING CONCRETE CURB




## 5 C501 ASPHALT MULTIPURPOSE PATH DETAIL

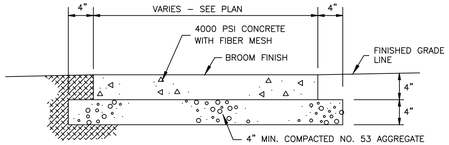



## 5 C601 CONCRETE PAVEMENT - 6/8" THICK

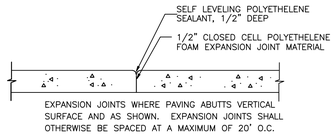



N.T.S.

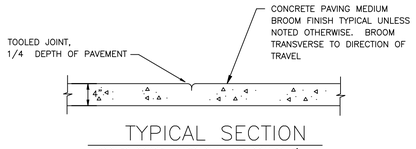
## 6 C601 CITY OF BLOOMINGTON PAVEMENT PATCH



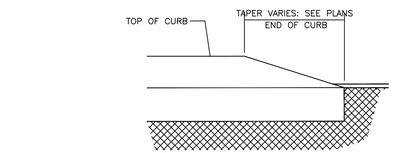

## 7 C601 CONCRETE SIDEWALK



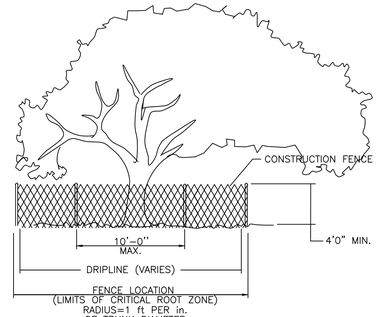

## 8 C601 TYPICAL EXPANSION JOINT



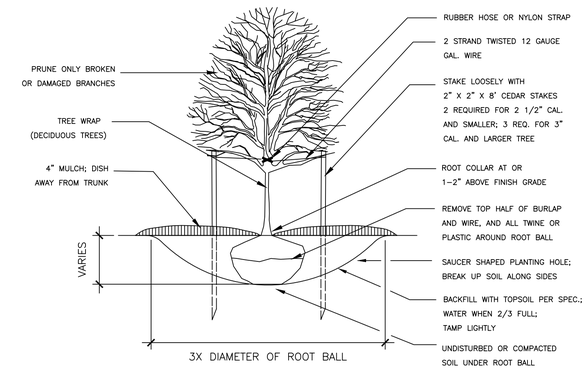

## 9 C601 SIDEWALK LONGITUDINAL SECTION AND JOINT DETAIL



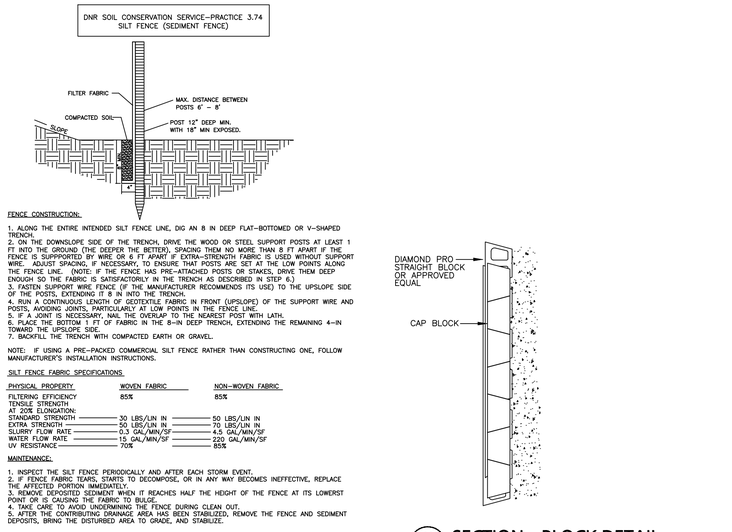

## 10 C601 CONCRETE CURB TRANSITION




## 11 C601 TREE PROTECTION DETAIL



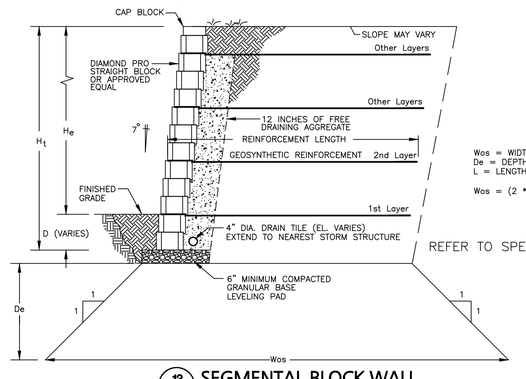

## 15 C601 TREE PLANTING DETAIL




## 12 C601 SILT FENCE




## 14 C601 SECTION - BLOCK DETAIL




Wos = WIDTH OF OVERSIZING
De = DEPTH OF EXCAVATION
L = LENGTH OF GEOSYNTHETIC REINFORCEMENT

Wos = (2 * De) + L

REFER TO SPECIFICATIONS FOR DESIGN REQUIREMENTS

## 13 C601 SEGMENTAL BLOCK WALL

Bledsoe Riggert Guerrettaz
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

WILLIAM STUART RIGGERT REGISTERED PROFESSIONAL ENGINEER NO. 870231 STATE OF INDIANA

City of Bloomington
Third Street
Sidewalk Improvements

Third Street
Bloomington, Indiana 47403

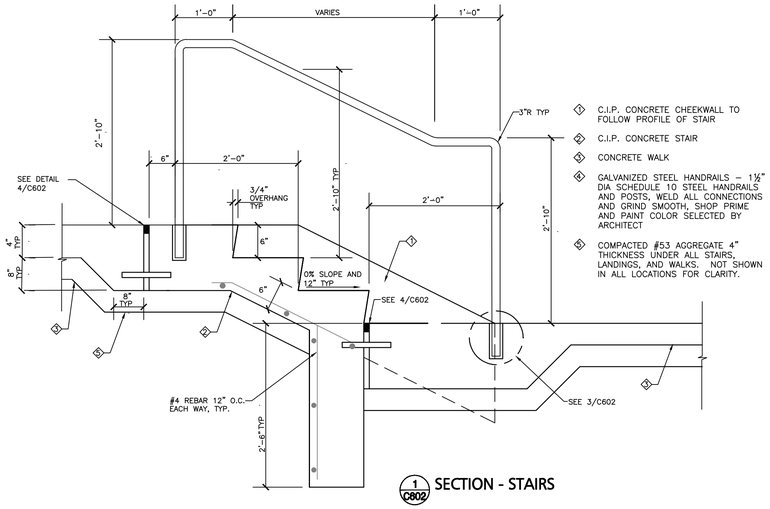
BRG Project No: 6616

SITE DETAILS

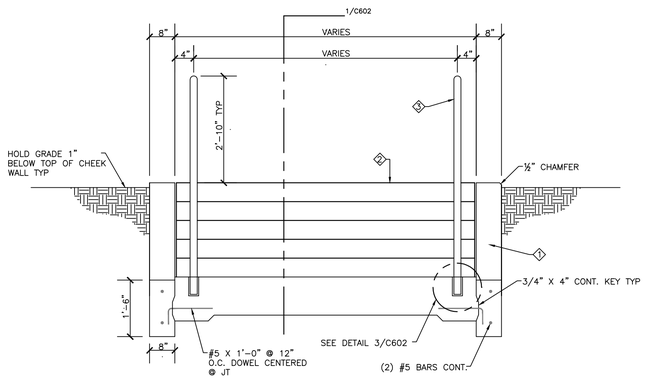
| Date: | Issue: |
|---|---|
| 09.24.2010 | CONSTRUCTION DOCUMENTS |

Drawn By: DLN
Designed By: DLN
Checked By: WSR
Scale: NONE

C601

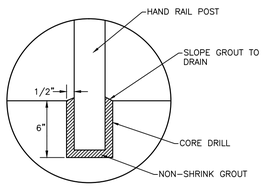



1 C602 SECTION - STAIRS

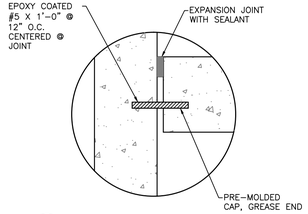



END HANDRAILS, INTERMEDIATE HANDRAILS, AND STAIRS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

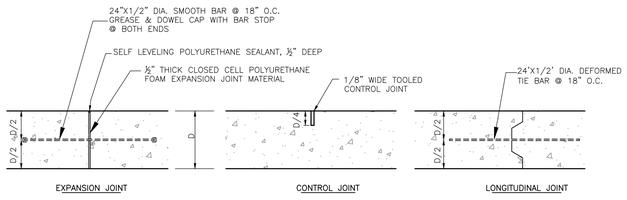
2 C602 SECTION - STAIR/CHEEK WALL




3 C602 POST INSTALLATION DETAIL

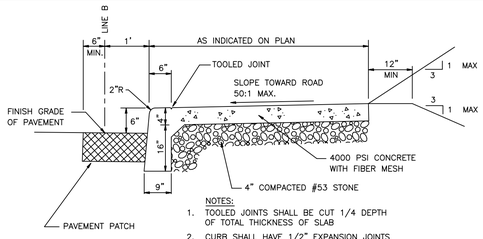



4 C602 EXPANSION JOINT DETAIL



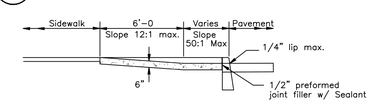

NOTE: CONSTRUCT EXPANSION JOINTS AT 40' MAX. AND CONTROL JOINTS AT 10' MAX. UNLESS OTHERWISE NOTED

5 C602 CONCRETE JOINT DETAILS

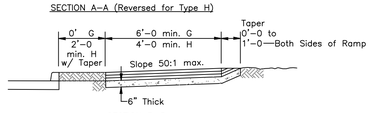



NOTES:
1. TOOLED JOINTS SHALL BE CUT 1/4 DEPTH OF TOTAL THICKNESS OF SLAB
2. CURB SHALL HAVE 1/2" EXPANSION JOINTS @ 40'-0" MAX. AND @ ENDS OF RADII. CONTROL JOINTS @ 10'-0" MAX. UNLESS OTHERWISE NOTED.

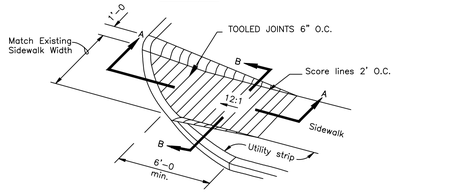
6 C602 MONOLITHIC CURB AND WALK



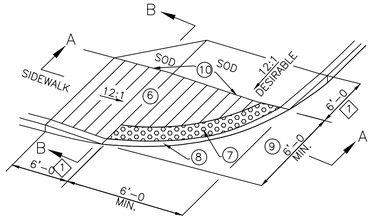

SECTION A–A (Reversed for Type H)

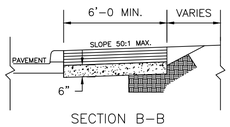



SECTION B–B

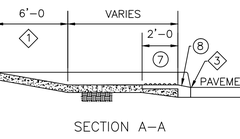



7 C602 CONCRETE CURB RAMP TYPE 'G'/'H'




SECTION B–B



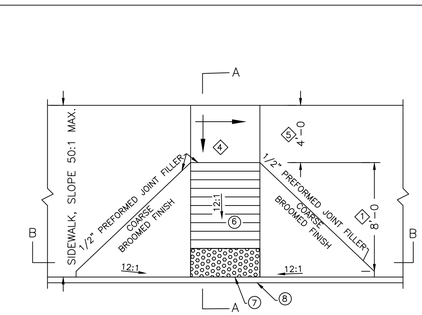

SECTION A–A

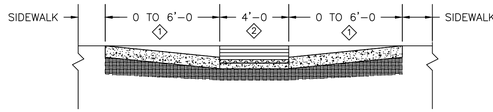
NOTES:

- 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.
- (11) See Standard Drawing E 604–SWCR–02 for typical ramp construction detail.

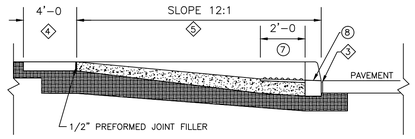
*NOTE: CONTRACTOR TO PROVIDE A 3/4" LIP FOR HANDICAP RAMPS ABOVE ADJACENT PAVEMENT

9 C602 SIDEWALK CURB RAMP TYPE 'G'




SECTION B–B




SECTION A–A

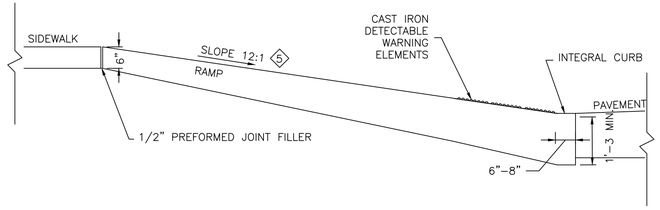
NOTES:

- 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 warning.
- (8) See Standard Drawing E 604–SWCR–02 for alternate curb construction.
- (A) See Standard Drawing E 604–SWCR–02 for typical ramp construction detail.

11 C602 SIDEWALK CURB RAMP TYPE 'A'

GENERAL NOTES:

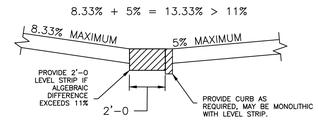
1. These dimensions are based on a 6 in. curb height. They shall be proportionally adjusted for other curb heights.
2. Where site infeasibility precludes construction to the width shown, such width may be decreased to a minimum of 3'–0.
3. The bottom edge of the curb ramp shall be flush with the edge 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.
7. 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.
8. Minimum recommended width of curb ramp is 4'–0



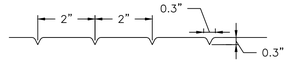

10 C602 INDOT/CITY OF BLOOMINGTON HANDICAP RAMPS INDOT STANDARD DRAWING E 604-SWCR-02

TRUNCATED DOMES USED IN DETECTABLE WARNINGS

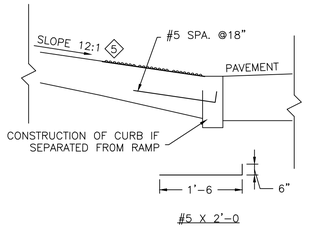



CHANGE OF GRADE




DETAIL OF RAMP GROOVES




ALTERNATE CURB CONSTRUCTION

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City of Bloomington
Third Street
Sidewalk Improvements

Third Street
Bloomington, Indiana 47403

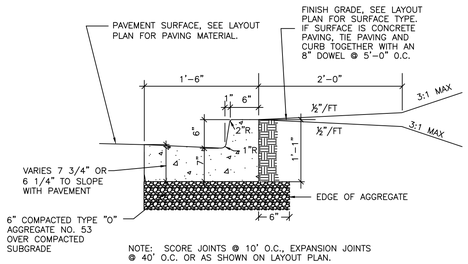
BRG Project No: 6616

SITE DETAILS

| Date: | Issue: |
|---|---|
| 09.24.2010 | CONSTRUCTION DOCUMENTS |

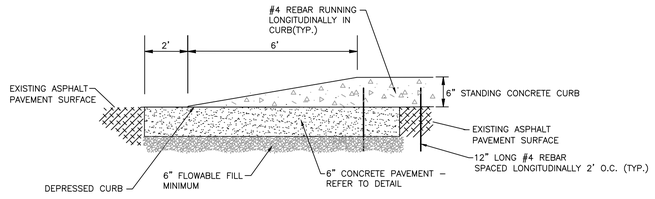
Drawn By: DLN
Designed By: DLN
Checked By: WSR
Scale: NONE

C602



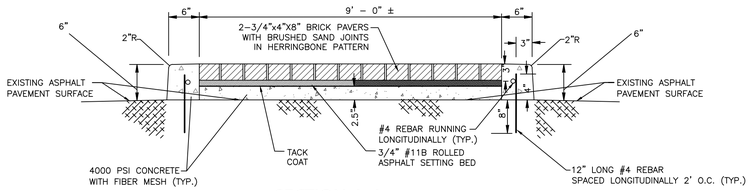

NOTE: SCORE JOINTS @ 10' O.C., EXPANSION JOINTS @ 40' O.C. OR AS SHOWN ON LAYOUT PLAN.

## 1 C603 CONCRETE CURB AND GUTTER



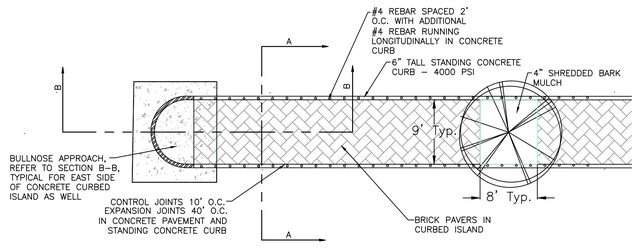

## SECTION B-B (CURBED BULLNOSE APPROACH)

**NOT TO SCALE**




## SECTION A-A

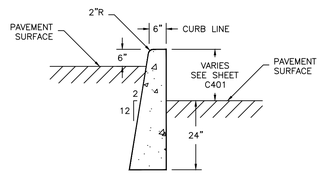
**NOT TO SCALE**




NOTE: REFER TO SHEET C301 FOR DETAIL LOCATION

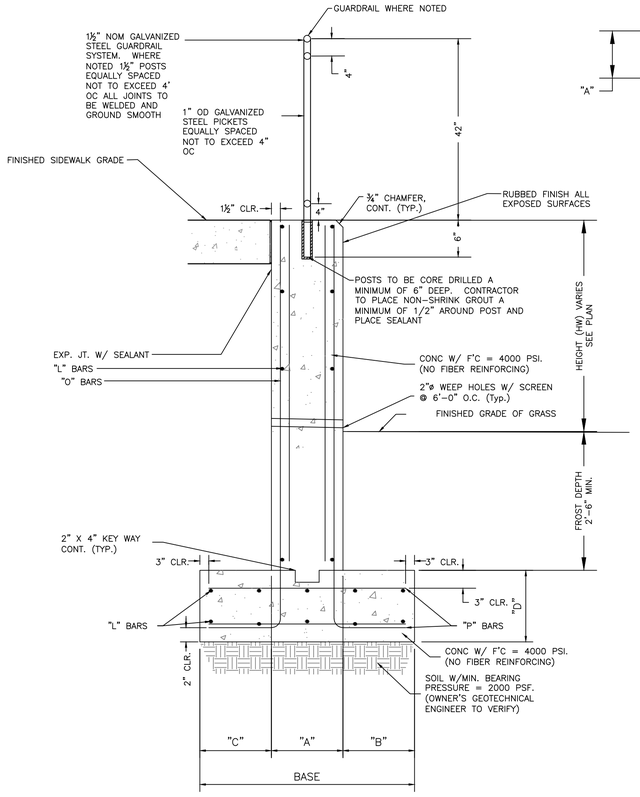
## 2 C603 CONCRETE CURBED ISLAND TYPICAL PLAN AND SECTION

**SCALE: 1" = 10'**



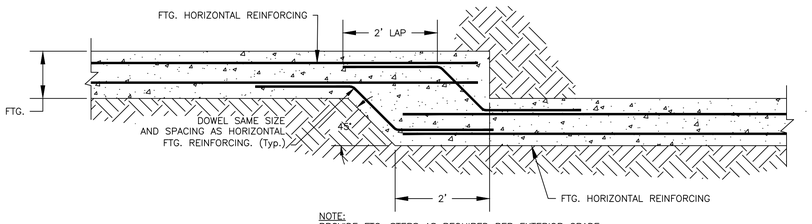

NOTE: SCORE OR SAW CUT CONTROL JOINTS @ 10' O.C. AND CONSTRUCT EXPANSION JOINTS @ 40' O.C. UNLESS OTHERWISE SHOWN OR REQUIRED

## 3 C603 MODIFIED STANDING CONCRETE CURB



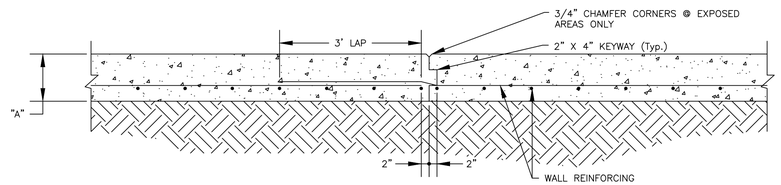

| RETAINING WALL SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| WALL HEIGHT (HW) | BASE | A | B | C | D | "L" BARS | "O" BARS | "P" BARS |
| 2'-0" TO 4'-0" | 3'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | #4'S @ 10" | #4'S @ 10" | #4'S @ 12" |
| 4'-0" TO 6'-0" | 7'-0" | 1'-0" | 3'-0" | 3'-0" | 1'-0" | #4'S @ 10" | #5'S @ 8" | #5'S @ 12" |
| | | | | | | | | |

## 4 C603 CONCRETE RETAINING WALL SECTION



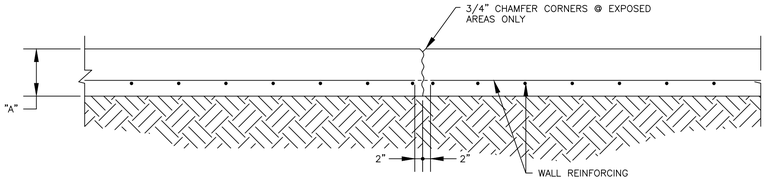

NOTE:
PROVIDE FTG. STEPS AS REQUIRED PER EXTERIOR GRADE AND AS REQUIRED TO MAINTAIN FROST DEPTH.

## 5 C603 TYP. STEPPED FOOTING DETAIL




NOTE:
CONSTRUCTION JOINT SPACING @ 60'-0 O.C. MAX.

## 6 C603 CONCRETE RETAINING WALL CONSTRUCTION JT. DETAIL




NOTE:
CONTROL JOINT SPACING @ 20'-0 O.C. MAX.

## 7 C603 CONCRETE RETAINING WALL CONTROL JOINT DETAIL

NOTES:

1. CONTRACTOR SHALL PROVIDE SHORING OR OTHER MEANS OF PROTECTING EXISTING CONDITIONS WHILE CONSTRUCTING WALL.
2. STEP FOUNDATION IN 1' INCREMENTS TO MEET PROPOSED FINISHED ELEVATIONS
3. RETAINING WALL SHALL BE CONSTRUCTED WITH MINIMUM WALL HEIGHT HW = 2' BRING FILL MATERIAL UP TO PROPOSED FINISHED GRADE AS NOTED.
4. POSTS SPACED 4'-0" ON CENTER ON WALL.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BRG Project No: 6616

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Checked By: WSR
Scale: NONE

C603