PROJECT	DESIGNATION
0800443	0800443
CONTRACT	
R-31762	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

ATWATER AVENUE AND HENDERSON STREET INTERSECTION IMPROVEMENTS

SIGNALIZATION AND INTERSECTION IMPROVEMENT WITH STORM SEWERS, CURB AND GUTTER, SIDEWALKS AND TURN LANE MODIFICATIONS IN SECTION 4, T-8-N, R-1-W IN THE CITY LIMITS OF BLOOMINGTON, INDIANA, MONROE COUNTY, PERRY TOWNSHIP

LATITUDE: 39°9'50" N LONGITUDE: 86°31'32" W

PROJECT NO. 0800443 CN

TRAFFIC DATA	ATWATER AVENUE	S. HENDERSON STREET	DUNN STREET (SOUTH OF ATWATER)
A.A.D.T. 2008	13,200 V.P.D.	4,600 V.P.D.	2,100 V.P.D.
A.A.D.T. 2028	15,800 V.P.D.	5,500 V.P.D.	2,500 V.P.D.
D.H.V 2028	1,540 V.P.H.	720 V.P.H.	250 V.P.H.
DIRECTIONAL DISTRIBUTION	100% EB	100% NB	100% SB
TRUCKS	3.0% A.A.D.T.	1.0% A.A.D.T.	1.0% A.A.D.T.
	1.0% D.H.V.	1.0% D.H.V.	1.0% D.H.V.
DESIGN DATA			
DESIGN SPEED	20 M.P.H.	30 M.P.H.	15 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY	3R NON-FREEWAY	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL	MINOR ARTERIAL	LOCAL STREET
RURAL/URBAN	URBAN (INTERMEDIATE)	URBAN (INTERMEDIATE)	URBAN (INTERMEDIATE)
TERRAIN	ROLLING	ROLLING	ROLLING
ACCESS CONTROL	NONE	NONE	NONE

PROJECT LOCATION SHOWN BY

CITY OF BLOOMINGTON

HON. MARK KRUZAN, MAYOR

BOARD OF PUBLIC WORKS

CHARLOTTE ZIETLOW, PRESIDENT

JAMES McNAMARA, VICE PRESIDENT

DR. FRANK HRISOMALOS, MEMBER

DEPARTMENT OF PUBLIC WORKS

SUSIE JOHNSON, DIRECTOR

JUSTIN WYKOFF, MANAGER, ENGINEERING SERVICES

ADRIAN REID, P.E., CITY ENGINEER

END CONSTRUCTION
STA. 52+95.49 "H"

END PROJECT
STA. 17+03.00 "A"

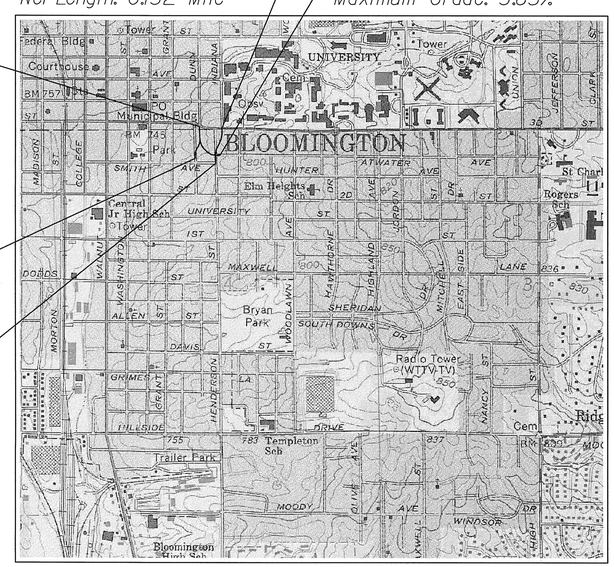
Gross Length: 0.132 Mile
Net Length: 0.132 Mile

Maximum Grade: 3.85%

BEGIN PROJECT
STA. 10+13.01 "A"

END CONSTRUCTION
STA. 72+00.00 "D-1"

END CONSTRUCTION
STA. 48+86.94 "H"



0 2000'

PROJECT LOCATION MAP
MONROE COUNTY

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2010 TO BE USED WITH THESE PLANS

PREPARED BY:

EAGLE RIDGE
CIVIL ENGINEERING SERVICES, LLC

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

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

PLANS PREPARED BY: EAGLE RIDGE CIVIL ENGINEERING SERVICES, LLC (317) 370-9672 PHONE NUMBER

CERTIFIED BY: 10/1/09 DATE

APPROVED FOR LETTING: DATE

DESIGNATION
0800443

SURVEY BOOK	SHEETS		
	1	of	36
CONTRACT	PROJECT		
R-31762	0800443		

FINAL PLANS

BLOOMINGTON / ATWATER AVENUE AND HENDERSON STREET INTERSECTION IMPROVEMENTS DES. NO. 0800443

UTILITIES

CABLE TELEVISION
COMCAST
ATTN: SCOTT TEMPLETON
2450 SOUTH HENDERSON ST.
BLOOMINGTON, IN 47401
(812) 355-7822

GAS
VECTREN ENERGY
ATTN: DOUG ANDERSON
205 SOUTH MADISON
BLOOMINGTON, IN 47404
(812) 330-4009

FOR SERVICE RELOCATIONS
(48 HOUR NOTICE NEEDED)
ATTN: GREG THACKER
(812) 330-4001

ELECTRIC
DUKE ENERGY
ATTN: JOHN SNODGRASS
1100 WEST SECOND ST.
P.O. BOX 2448
BLOOMINGTON, IN 47403
(812) 337-3036
ALT: KERRY DUCKER (812) 337-3035

SEWER AND WATER
CITY OF BLOOMINGTON UTILITIES
ATTN: MIKE BENGTSON
600 EAST MILLER DRIVE
BLOOMINGTON, IN 47401
(812) 349-3653

BLOOMINGTON DIGITAL UNDERGROUND
CITY INFORMATION AND
TECHNOLOGICAL SERVICES
CITY HALL
401 N. MORTON ST. SUITE 150
BLOOMINGTON, IN 47401
(812) 349-3856
ATTN: RICK ROUTON

TELEPHONE
AT & T
ATTN: BRENT McCABE
4517 INDIANA BELL COURT
BLOOMINGTON, IN 47408
(812) 334-4521

KENTUCKY DATA LINK, INC.
ATTN: LISA WHITEHOUSE
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
(812) 759-2831

GENERAL NOTES

*	ALL EARTH SHOULDERS, MEDIAN AREAS, AND CUT OR FILL SLOPES SHALL BE PLAIN OR MULCH SEEDED EXCEPT WHERE SODDING IS SPECIFIED.
	THE FINAL CROSS SECTIONS OF THE GRADING CONTRACT WILL BE THE ORIGINAL CROSS SECTIONS OF THE PAVING CONTRACT. HOWEVER, PARTIAL OR COMPLETE CROSS SECTIONS SHALL BE TAKEN IF NECESSARY TO DETERMINE THE ACTUAL EXCAVATION QUANTITIES.
	THE PAPER RELOCATION WILL BE CROSS-SECTIONED BY THE ENGINEER BEFORE CONSTRUCTION.
	EXISTING ASPHALT PAVEMENT LOCATED OUTSIDE THE CONSTRUCTION LIMITS BETWEEN STA. AND STA. , SHALL BE REMOVED AS DIRECTED.
	THE QUANTITY OF PEAT EXCAVATION SHOWN ON THE PLANS HAS BEEN ESTIMATED ON THE BASIS OF THEORETICAL CROSS SECTIONS BY USING TREATMENT OF EXISTING FILLS. TREATMENT BY REMOVAL OR TREATMENT BY DISPLACEMENT. WHERE EACH TREATMENT APPLIES.
	ALUMINUM BAS BRACING (1/4" X 1" X LENGTH REQUIRED) WILL BE REQUIRED ON ALL SQUARE POST MOUNTED SIGNS EXCEEDING 60" IN LENGTH.
*	POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE POST LENGTHS REQUIRED TO ASSURE THAT THE SIGNS ARE INSTALLED WITH THE MOUNTING HEIGHT BEING IN ACCORDANCE WITH THE MICELLANEOUS TRAFFIC STANDARD DETAILS SHEETS.
*	UNLESS OTHERWISE NOTED IN THESE PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL REQUIRED FOR THE COMPLETE INSTALLATION OF THE SIGNS AND SIGN SUPPORTS. SHEET SIGNS AND POSTS ARE NOT TO BE ORDERED UNTIL THE EXACT NUMBER OF SIGNS AND LENGTH OF EACH POST HAS BEEN DETERMINED UPON FIELD INVESTIGATION.
*	ALL SIGNS SHALL BE MARKED FOR IDENTIFICATION. THE MARKING MATERIAL SHALL BE EITHER SCOTCH LITE, SEIBULITE, REFLEXITE OR APPROVED EQUAL. THE IDENTIFYING MESSAGE SHALL CONSIST OF INDOT AND THE MONTH AND YEAR THE SIGN IS INSTALLED. THE MESSAGE COPY SHALL CONSIST OF BLACK OR WHITE LETTERING ON THE WHITE OR BLACK BACKGROUND RESPECTIVELY AND BE OF A MINIMUM OF 1" IN HEIGHT. THE MARKING FOR SHEET SIGNS SHALL BE PLACED IN THE LOWER CORNER CLOSEST TO THE CENTER LINE OF THE ROAD. THE MARKING SHALL NOT BE COVERED BY THE SIGN'S SUPPORT AFTER INSTALLATION OF THE SIGN.
*	STOP SIGN SHALL NOT BE REMOVED UNTIL THE NEW ONE IS AT THE JOB SITE AND READY TO BE INSTALLED. SIGNS SHALL BE SEEN BY TRAVEL MOTORISTS AT ALL TIMES.
	ALL DESIGN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (LATEST EDITION).

* NOTE APPLIES TO THIS CONTRACT

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	GENERAL NOTES / UTILITIES / INDEX / LEGEND
3	TYPICAL CROSS SECTIONS AND DETAILS
4-6	MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLANS
7-10	PLAN AND PROFILES
11-12	CONSTRUCTION DETAILS
13	LANDSCAPING/PLANTING PLAN
14	STONE WALL DETAILS
15-16	SIGN AND PAVEMENT MARKING PLANS
17	SIGN SUMMARY
18	SIGNAL PLAN
19	MISCELLANEOUS SUMMARY OF QUANTITIES
20	PAVEMENT QUANTITIES AND APPROACH TABLE
21	STRUCTURE DATA TABLE / PIPE MATERIAL SHEET
22-36	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL LEGEND (EXISTING SCREENED, PROPOSED IN BOLD)

- UTILITY HAND HOLE
- LIGHT POLE
- WATER VALVE
- GAS VALVE
- INLETS
- HYDRANT
- TRAFFIC MANHOLE
- TREES
- FLAG POLE
- SIGN (1 OR 2 POST)
- STUMP
- POWER POLE
- GUY WIRE
- GAS METER
- WATER METER
- MAILBOX
- YARD LIGHT
- POWER POLE WITH LIGHT AND RISER
- POWER POLE WITH RISER
- CONTROLLER
- SIGNAL POLE
- PEDESTRIAN SIGNAL POLE
- ELECTRIC METER
- CLEAN OUT
- MANHOLE (STORM, SANITARY OR COMBINED)
- STORM / SANITARY SEWER
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- OVERHEAD UTILITY
- WATER LINE
- GAS LINE
- PROPERTY LINE (APP. R)
- EXISTING RIGHT-OF-WAY LINE (APP. EXIST. R/W)
- PROPOSED RIGHT-OF-WAY LINE (R/W)
- WIRE FENCE
- SPLIT RAIL FENCE/WOODEN FENCE
- CHAIN LINK FENCE
- PROPOSED LIGHT POLE
- NEW TREES
- POLE REMOVAL OR RELOCATION BY UTILITY (PR)
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED PIPE/MANHOLE
- PROPOSED STONE WALL

MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- BUZZ STRIPS, 6 EACH SET, 8" WIDE, SOLID WHITE THERMOPLASTIC LINES
- (RR) TEMPORARY CHECK DAM, REVETMENT RIPRAP
- (SB) TEMPORARY CHECK DAM, STRAW BALES
- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

PROPOSED ITEMS

- (C1) 6" CONCRETE PAVEMENT FOR DRIVES ON 6" COMPACTED AGGREGATE BASE NO.53S (CLASS I)
- (C3) 9" CONCRETE PAVEMENT FOR DRIVES ON 6" COMPACTED AGGREGATE BASE No.53 (CLASS III DRIVES AND ALLEYS)
- (CL) APPROXIMATE CONSTRUCTION LIMITS
- (D4) HMA PAVEMENT FOR DRIVES AND PARKING LOTS 165 lb/syd HMA TYPE B SURFACE 95mm ON, 275 lb/syd HMA TYPE B INTERMEDIATE 190mm ON, 8" COMPACTED AGGREGATE BASE No.53s
- (F) CONCRETE SIDEWALK (MATCH EXISTING WIDTH IF PRESENT)
- (K1) FULL DEPTH PAVEMENT FOR ARTERIAL ROAD 1.5" (165 lb/syd) HMA TYPE B SURFACE, ON 2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON 7" (770 lb/syd) HMA TYPE B BASE, ON SUBGRADE TREATMENT, TYPE II (INCLUDES 9" OF REMOVE AND REPLACE WITH COMPACTED AGGREGATE BASE No.53s ON GEOGRID, TYPE 1)
- (K2) FULL DEPTH PAVEMENT FOR MINOR LOCAL ROAD 1.5" (165 lb/syd) HMA TYPE B SURFACE, ON 2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON 4" (440 lb/syd) HMA TYPE B BASE, ON SUBGRADE TREATMENT, TYPE II (INCLUDES 9" OF REMOVE AND REPLACE WITH COMPACTED AGGREGATE BASE No.53s ON GEOGRID, TYPE 1)
- (R1) RESURFACING SECTIONS 1.5" (165 lb/syd) HMA TYPE B SURFACE, ON 2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON TACK COAT AFTER 1.5" OF SURFACE MILLING
- (P) ROAD PATCHING
- (SL) APPROXIMATE SUSPECTED LOCATION OF SANITARY SERVICE LATERAL TO BE REPLACED
- (9) 1/2 IN. PREFORMED JOINT FILLER
- (13) CONCRETE CURB, 8" (EXPOSED FACE)
- (15) COMBINED CONCRETE CURB AND GUTTER, 8" TALL, 24" WIDE
- (16) REVERSE SLOPED CONCRETE CURB AND GUTTER, 8"
- (17) INTEGRAL CONCRETE CURB AND SIDEWALK
- (25) MULCHED SEEDING, TYPE "U"
- (26) SODDING, NURSERY
- (G) CONCRETE CURB RAMP (LETTER DESIGNATES TYPE)
- (T1) TREE, HACKBERRY (CELTIS OCCIDENTALIS), 2"
- (T2) TREE, RED OAK (QUERCUS RUBRA), 1 3/4"
- (T3) TREE, LILAC (SYRINGA RETICULATE "IVORY SILK"), 2"
- (T4) TREE, AMERICAN LINDEN (TILIA AMERICANA "REDMOND"), 2"
- (T5) TREE, GREEN VASE JAPANESE ZELCOVA (ZELCOVA SERRATA), 2"
- (W1) FULL DEPTH WIDENING, LAYERED SAME AS (K1) (SEE TYPICALS)

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — DATE 10/30/09

DESIGNED: BR | DRAWN: SI

CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX / GENERAL NOTES / LEGEND / UTILITY DATA

HORIZONAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443

SURVEY BOOK	SHEETS
N/A	2 of 36
CONTRACT	PROJECT
R-31762	0800443

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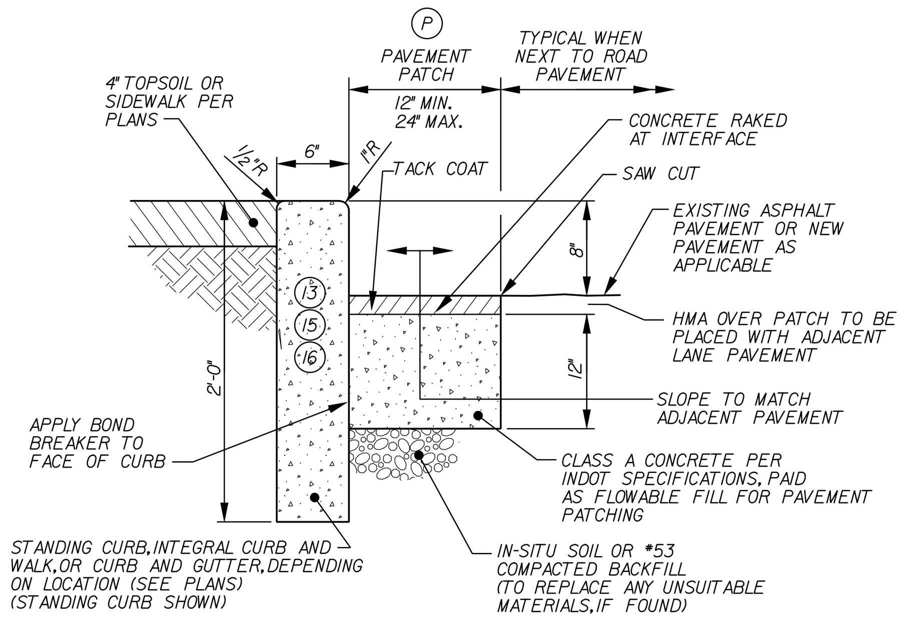
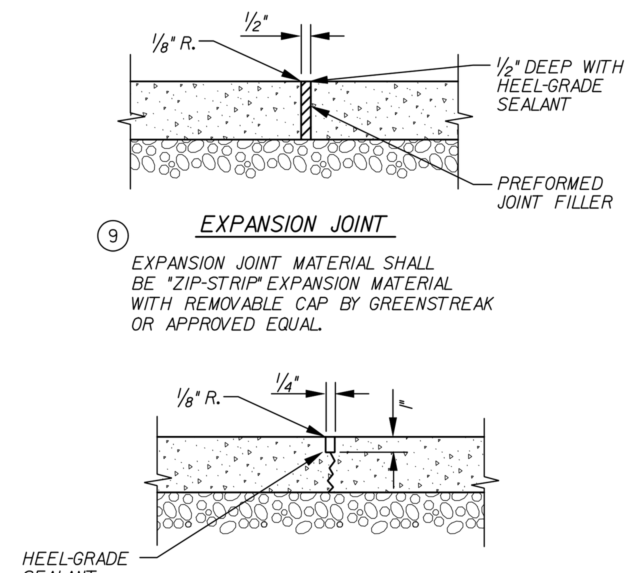


(P) PAVEMENT PATCH AT CURBS DETAIL

NTS

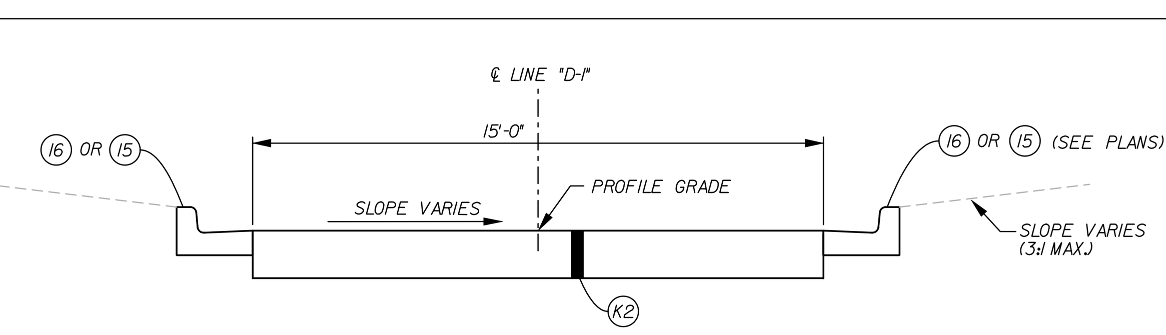
NOTES:

1. AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
2. REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
3. 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.
4. PAVEMENT PATCHING REQUIRED WHEREVER EXISTING PAVEMENT MUST BE REPAIRED OR REPLACED NEXT TO REQUIRED CURB, DRIVE OR SIDEWALK WORK.



JOINT IN CONCRETE SIDEWALKS

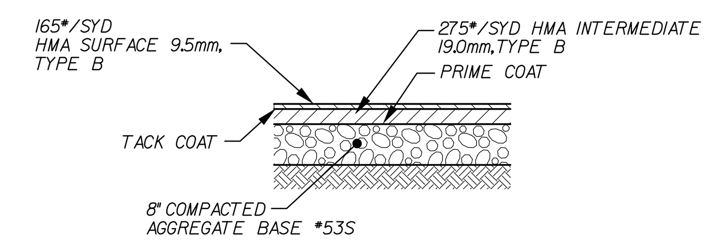
NTS



DUNN STREET CONNECTOR TYPICAL SECTION (LOOKING SOUTH)

NTS

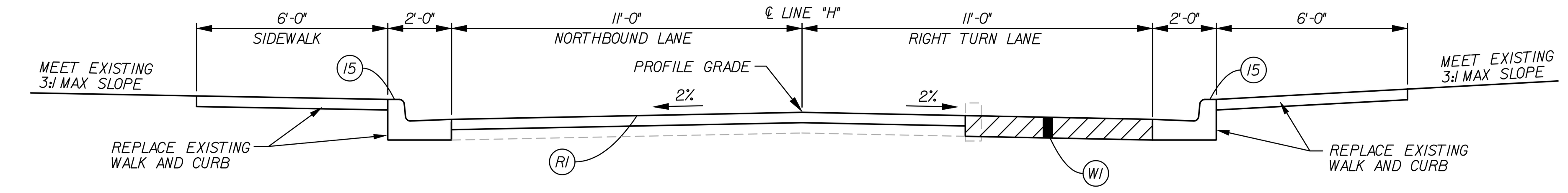
STA. 70+00 "D-1" TO STA. 71+47 "D-1"



(D4) PARKING LOT AND ASPHALT DRIVE PAVEMENT

(WHERE NOTED ON PLANS)

NTS

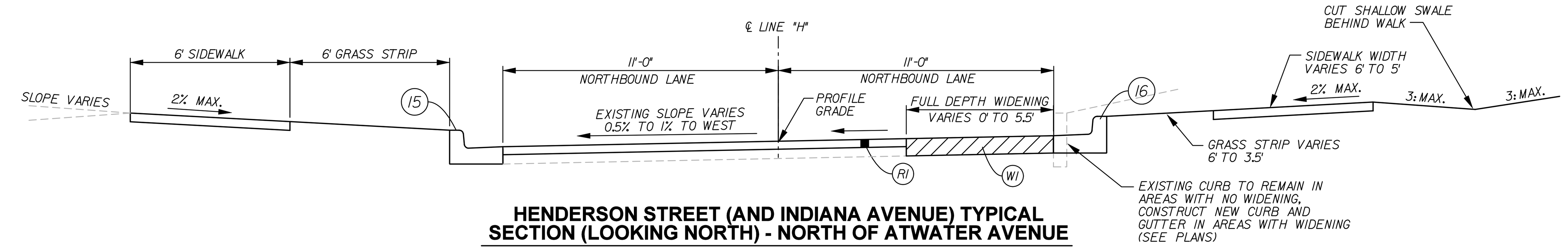


HENDERSON STREET TYPICAL SECTION (LOOKING NORTH) - SOUTH OF ATWATER AVENUE

NTS

STA. 48+84.9 "H" TO STA. 50+00 "H"

NORMAL CROWN

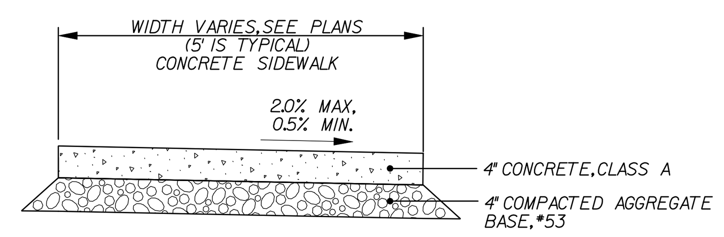


HENDERSON STREET (AND INDIANA AVENUE) TYPICAL SECTION (LOOKING NORTH) - NORTH OF ATWATER AVENUE

NTS

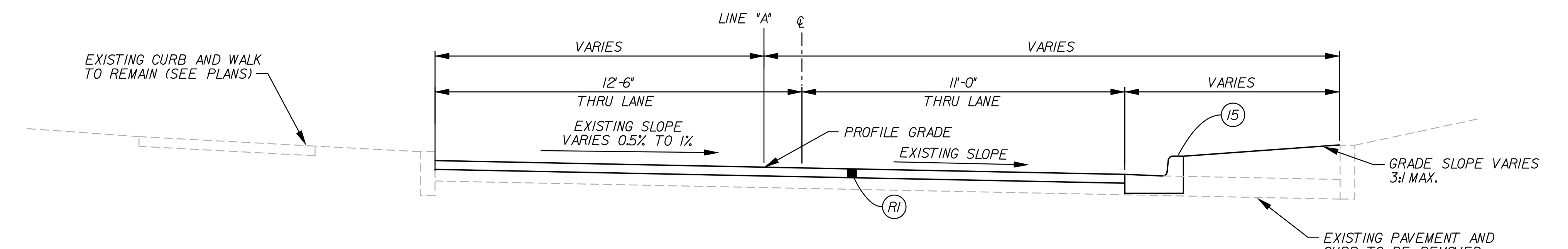
STA. 50+00 "H" TO STA. 52+95 "H"

OVERLAY EXISTING TILT PAVEMENT



(F) TYPICAL SIDEWALK DETAIL

NTS

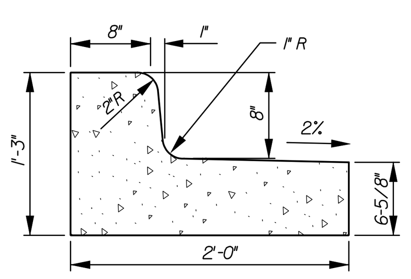


ATWATER AVENUE TYPICAL SECTION (LOOKING SOUTH)

NTS

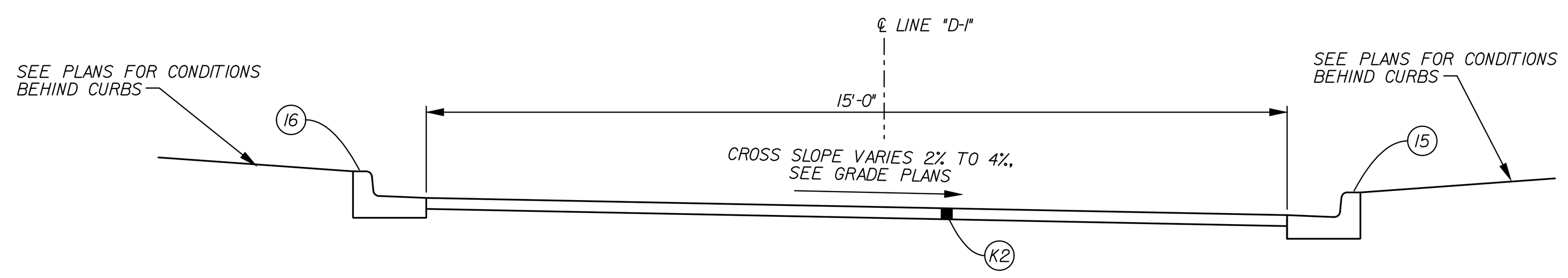
STA. 10+13 "A" TO STA. 11+72 "A"

OVERLAY EXISTING TILT PAVEMENT



(16) REVERSE SLOPED COMBINED CURB AND GUTTER

NTS



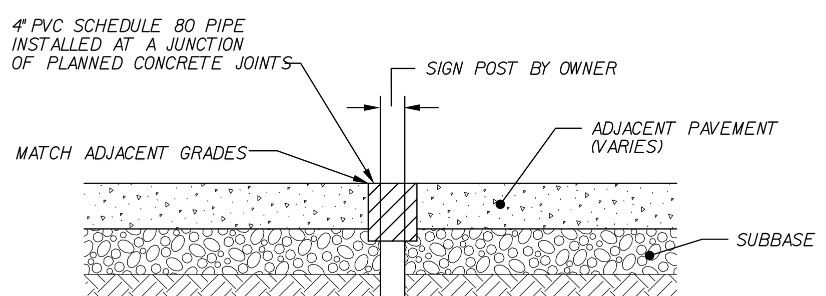
DUNN STREET CONNECTOR

NTS

STA. 70+50 "D-1" TO STA. 71+50 "D-1"

(EDGE OF ATWATER AVENUE TO EDGE OF DUNN STREET)

NEW TILT PAVEMENT



SLEEVE FOR SIGN INSTALLATIONS IN SIDEWALKS

NTS

SIGN RELOCATION NOTES:

1. CONTRACTOR WILL COORDINATE WITH CITY TO HAVE EXISTING SIGNS REMOVED AT APPROPRIATE TIMES.
2. CONTRACTOR TO INSTALL PVC INSERTS IN SIDEWALKS AS SHOWN FOR OWNER'S USE IN RELOCATING SIGNS (OWNER TO DESIGNATE LOCATIONS).
3. ALL NEW AND EXISTING SIGNS WILL BE SET BY OWNER IN CONTRACTOR PROVIDED INSERTS UNLESS SHOWN OTHERWISE.
4. SIGN INSERTS WILL BE PLACED AT CONCRETE CONSTRUCTION JOINTS ONLY.

SIDEWALK JOINT NOTES:

1. INSTALL 1/2" PREFORMED JOINT FILLER BETWEEN SIDEWALKS AND ANY OTHER FIXED FEATURES (CURBS, STEPS, RAMPS, BUILDINGS, ETC.)
2. IN EACH SIDEWALK SEGMENT, TOOL CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 6' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH 1/2" PREFORMED JOINT FILLER AT A MAXIMUM SPACING EVERY 30' IN SIDEWALKS, AND AT EACH SIDEWALK CONNECTION TO OTHER SIDEWALKS, AT CURBS, AND AT RAMPS.

CURB JOINTS NOTE:

1. ALL CURBS SHALL RECEIVE A FULL DEPTH EXPANSION JOINT FORMED WITH 1/2" PREFORMED JOINT FILLER AT THE FOLLOWING LOCATIONS:
   - EVERY EXPANSION JOINT IN ADJACENT SIDEWALKS OR MEDIAN BUFFER STRIP
   - AT EACH RADIUS POINT AND AT START/END OF DRIVES
   - ON EITHER SIDE OF CURB INLETS OR OTHER CASTINGS
   - AT SAWCUT, LIMITS OF REMOVAL TO ANY EXISTING CURB
   - AT 100' MAXIMUM INTERVALS, IF NO OTHER JOINTS NEEDED
2. CURBS & COMBINED CURB AND GUTTER SHALL RECEIVE A TOOLED CONTRACTION JOINT AT 20' MAXIMUM SPACING.

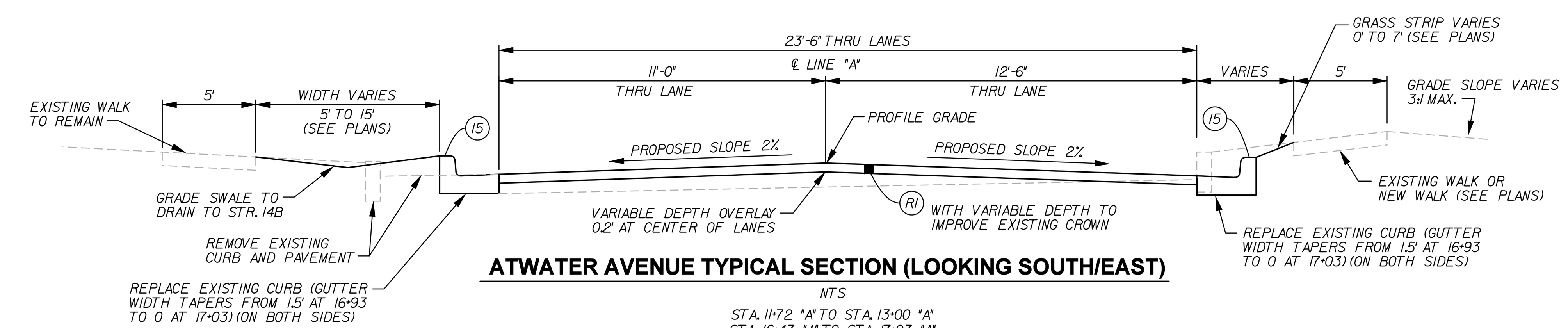
CURB RAMPS AND TRUNCATED DOMES:

1. RAMPS TO BE CONSTRUCTED AT A MAXIMUM 12:1 SLOPE TO A LANDING AREA FOR ENTRY ONTO ROADWAY PER PLANS.
2. RAMPS ARE TO RECEIVE DETECTABLE WARNING PLATES, PER CITY STANDARDS. PLATES SHALL BE EAST JORDAN IRON WORKS, MODEL #7005. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

(K1) FULL DEPTH PAVEMENT FOR ARTERIAL ROAD
1.5" (165 lb/syd) HMA TYPE B SURFACE, ON
2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON
7" (770 lb/syd) HMA TYPE B BASE, ON
SUBGRADE TREATMENT, TYPE II (INCLUDES 9" OF REMOVE AND REPLACE WITH COMPACTED AGGREGATE BASE No. 53s ON GEOGRID, TYPE 1)

(K2) FULL DEPTH PAVEMENT FOR MINOR LOCAL ROAD
1.5" (165 lb/syd) HMA TYPE B SURFACE, ON
2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON
4" (440 lb/syd) HMA TYPE B BASE, ON
SUBGRADE TREATMENT, TYPE II (INCLUDES 9" OF REMOVE AND REPLACE WITH COMPACTED AGGREGATE BASE No. 53s ON GEOGRID, TYPE 1)

(R1) RESURFACING SECTIONS
1.5" (165 lb/syd) HMA TYPE B SURFACE, ON
2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON
TACK COAT AFTER 1.5" OF SURFACE MILLING



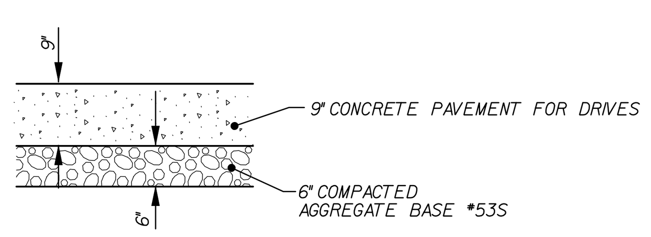
ATWATER AVENUE TYPICAL SECTION (LOOKING SOUTH/EAST)

NTS

STA. 11+72 "A" TO STA. 13+00 "A"

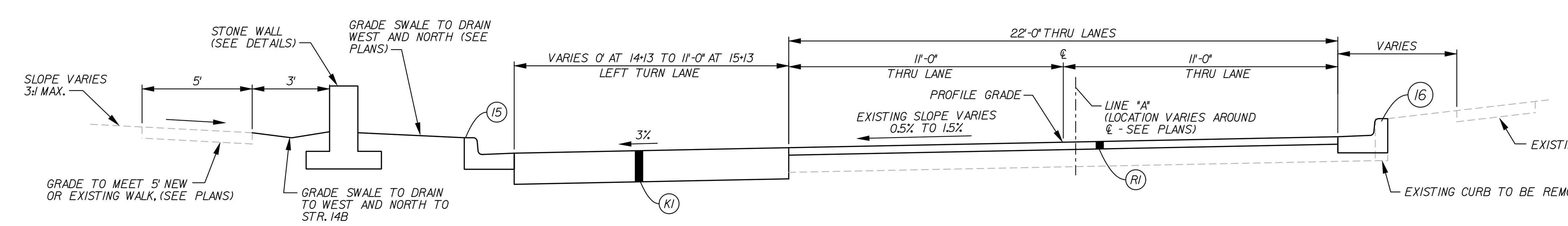
STA. 16+43 "A" TO STA. 17+03 "A"

IMPROVE NORMAL CROWN SECTION



(C3) TYPICAL CLASS III DRIVE PAVEMENT

NTS

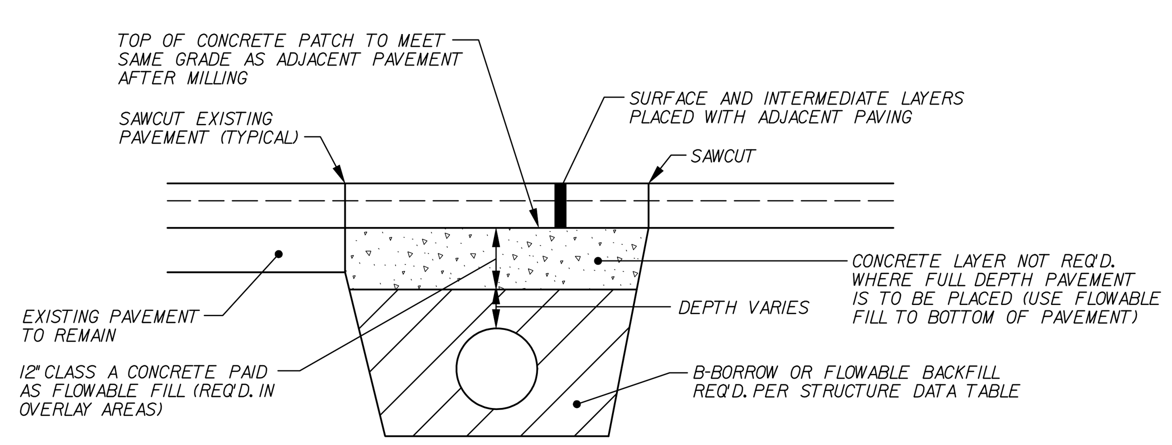


ATWATER AVENUE TYPICAL SECTION (LOOKING EAST)

NTS

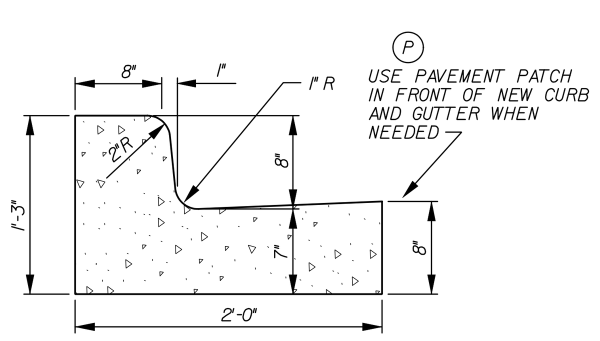
STA. 13+00 "A" TO STA. 15+13 "A"

OVERLAY EXISTING TILT PAVEMENT



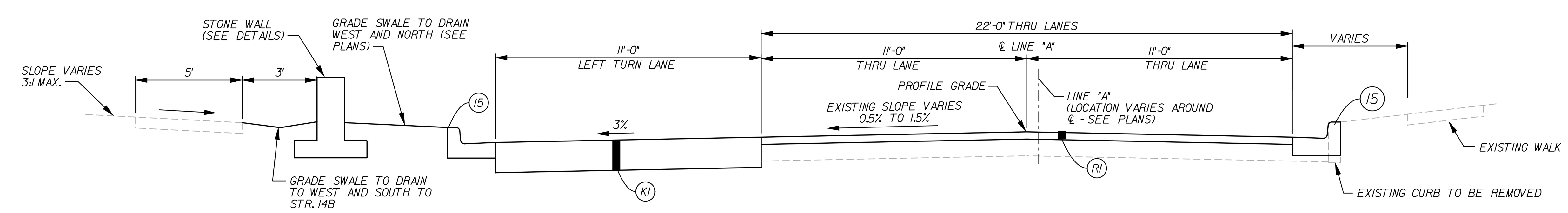
PAVEMENT PATCHING OVER PIPES

NTS



(15) COMBINED CURB AND GUTTER DETAIL

NTS



ATWATER AVENUE TYPICAL SECTION (LOOKING EAST)

NTS

STA. 15+13 "A" TO STA. 16+43 "A"

IMPROVE NORMAL CROWN SECTION

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BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

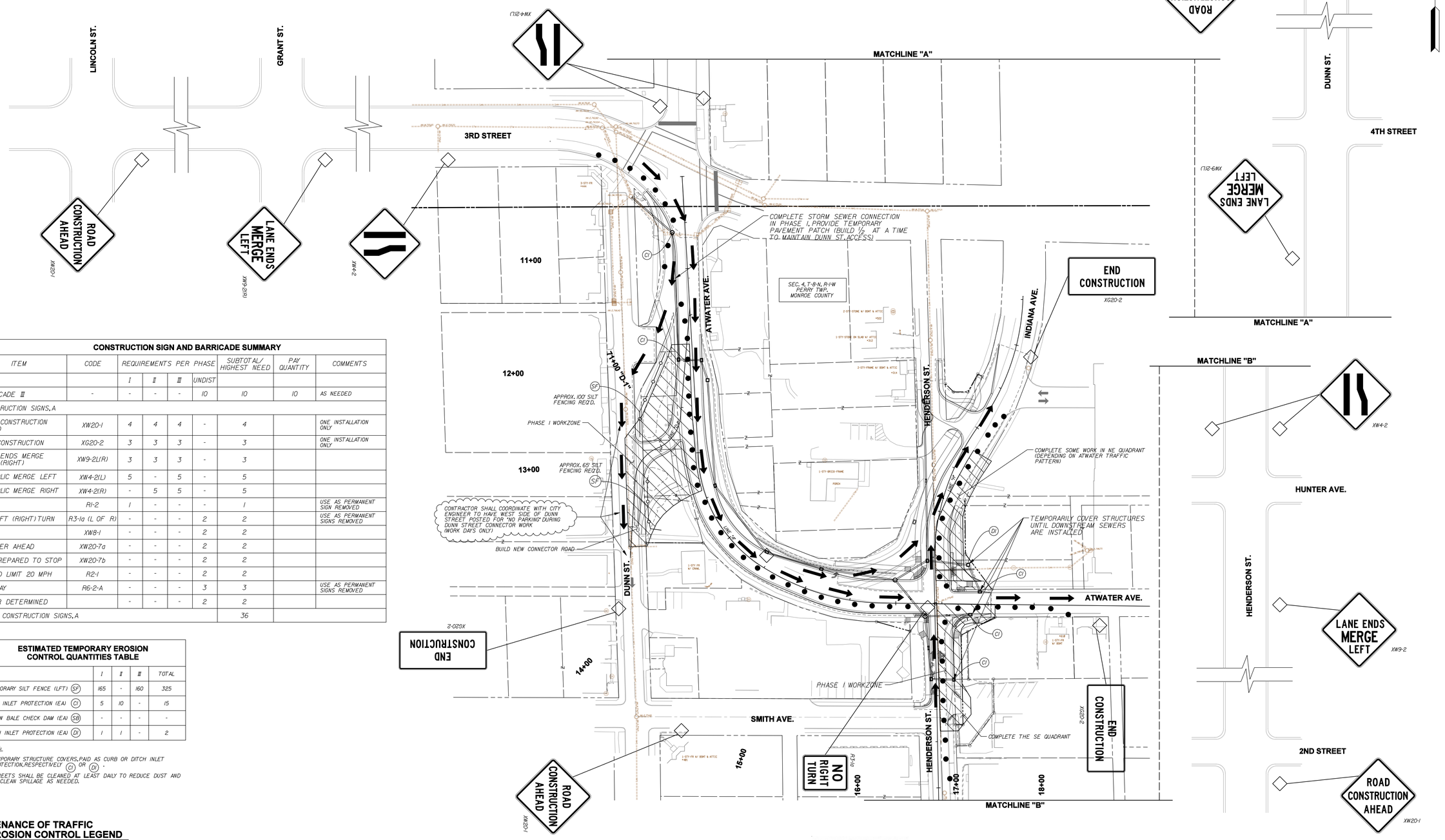
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	10/30/09	DATE
DESIGNED: BR	DRAWN: SI		
CHECKED: JAW (DPW)	CHECKED: BR		

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS AND DETAILS

HORIZONAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
N/A	3 of 36
CONTRACT	PROJECT
R-31762	0800443

PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME	PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME	PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME
I	- CONSTRUCT NEW DUNN CONNECTOR - CONSTRUCT SE CORNER OF ATWATER/ HENDERSON INTERSECTION - CONSTRUCT PORTIONS OF NE QUADRANT NOT IN ATWATER - INSTALL STORMSEWER OUTFALL PIPE ACROSS DUNN CONNECTOR	- CLOSE RIGHT LANE OF ATWATER THROUGH PROJECT AREA WHEN NEEDED. - CLOSE RIGHT LANE OF HENDERSON - CLOSE ½ OF EXISTING DUNN CONNECTOR AT A TIME FOR STORM SEWER	II	- CONSTRUCT ALL EAST AND NORTH-SIDE FEATURE ON ATWATER, AND WESTSIDE FEATURE ON HENDERSON, INCLUDING CHANGES TO LEFT TURN LANE FROM ATWATER TO HENDERSON - CONSTRUCT PORTIONS OF SW QUADRANT NOT IN ATWATER - BEGIN WORK TO REMOVE OLD DUNN CONNECTOR - BEGIN INSTALLATION OF SIGNAL	- CLOSE LEFT LANE OF ATWATER THROUGH PROJECT AS NEEDED - CLOSE LEFT LANE OF HENDERSON - PUT TRAFFIC ON NEW DUNN CONNECTOR	III	- COMPLETE REMOVAL OF OLD DUNN CONNECTOR AND CONSTRUCT NEW TURNAROUND - COMPLETE WORK IN NE AND SW QUADRANTS - COMPLETE SIGNAL INSTALLATION	- CLOSE ONE LANE OF ATWATER AND/OR HENDERSON AT A TIME WHEN NEEDED



CONSTRUCTION SIGN AND BARRICADE SUMMARY

ITEM	CODE	REQUIREMENTS PER PHASE I	II	III	UNDIST	SUBTOTAL/ HIGHEST NEED	PAY QUANTITY	COMMENTS
BARRICADE III	-	-	-	-	10	10	10	AS NEEDED
CONSTRUCTION SIGNS, A								
ROAD CONSTRUCTION AHEAD	XW20-1	4	4	4	-	4		ONE INSTALLATION ONLY
END CONSTRUCTION	XG20-2	3	3	3	-	3		ONE INSTALLATION ONLY
LANE ENDS MERGE LEFT (RIGHT)	XW9-2L(R)	3	3	3	-	3		
SYMBOLIC MERGE LEFT	XW4-2(L)	5	-	5	-	5		
SYMBOLIC MERGE RIGHT	XW4-2(R)	-	5	5	-	5		
YIELD	R1-2	1	-	-	-	1		USE AS PERMANENT SIGN REMOVED
NO LEFT (RIGHT) TURN	R3-1a (L OF R)	-	-	-	2	2		USE AS PERMANENT SIGNS REMOVED
BUMP	XW8-1	-	-	-	2	2		
FLAGGER AHEAD	XW20-7a	-	-	-	2	2		
BE PREPARED TO STOP	XW20-7b	-	-	-	2	2		
SPEED LIMIT 20 MPH	R2-1	-	-	-	2	2		
ONE-WAY	R6-2-A	-	-	-	3	3		USE AS PERMANENT SIGNS REMOVED
OWNER DETERMINED		-	-	-	2	2		
TOTAL CONSTRUCTION SIGNS, A						36		

ESTIMATED TEMPORARY EROSION CONTROL QUANTITIES TABLE

	I	II	III	TOTAL
TEMPORARY SILT FENCE (LFT) (SF)	165	-	160	325
CURB INLET PROTECTION (EA) (CI)	5	10	-	15
STRAW BALE CHECK DAM (EA) (SB)	-	-	-	-
DITCH INLET PROTECTION (EA) (DI)	1	1	-	2

NOTES:

1. TEMPORARY STRUCTURE COVERS, PAID AS CURB OR DITCH INLET PROTECTION, RESPECTIVELY (CI) OR (DI).
2. STREETS SHALL BE CLEANED AT LEAST DAILY TO REDUCE DUST AND TO CLEAN SPILLAGE AS NEEDED.

MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- BUZZ STRIPS, 6 EACH SET, 8" WIDE, SOLID WHITE THERMOPLASTIC LINES
- (RR) TEMPORARY CHECK DAM, REVETMENT RIPRAP
- (SB) TEMPORARY CHECK DAM, STRAW BALES
- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

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CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLAN - PHASE I

HORIZONAL SCALE	BRIDGE FILE
1" = 50'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
N/A	4 of 36
CONTRACT	PROJECT
R-31762	0800443

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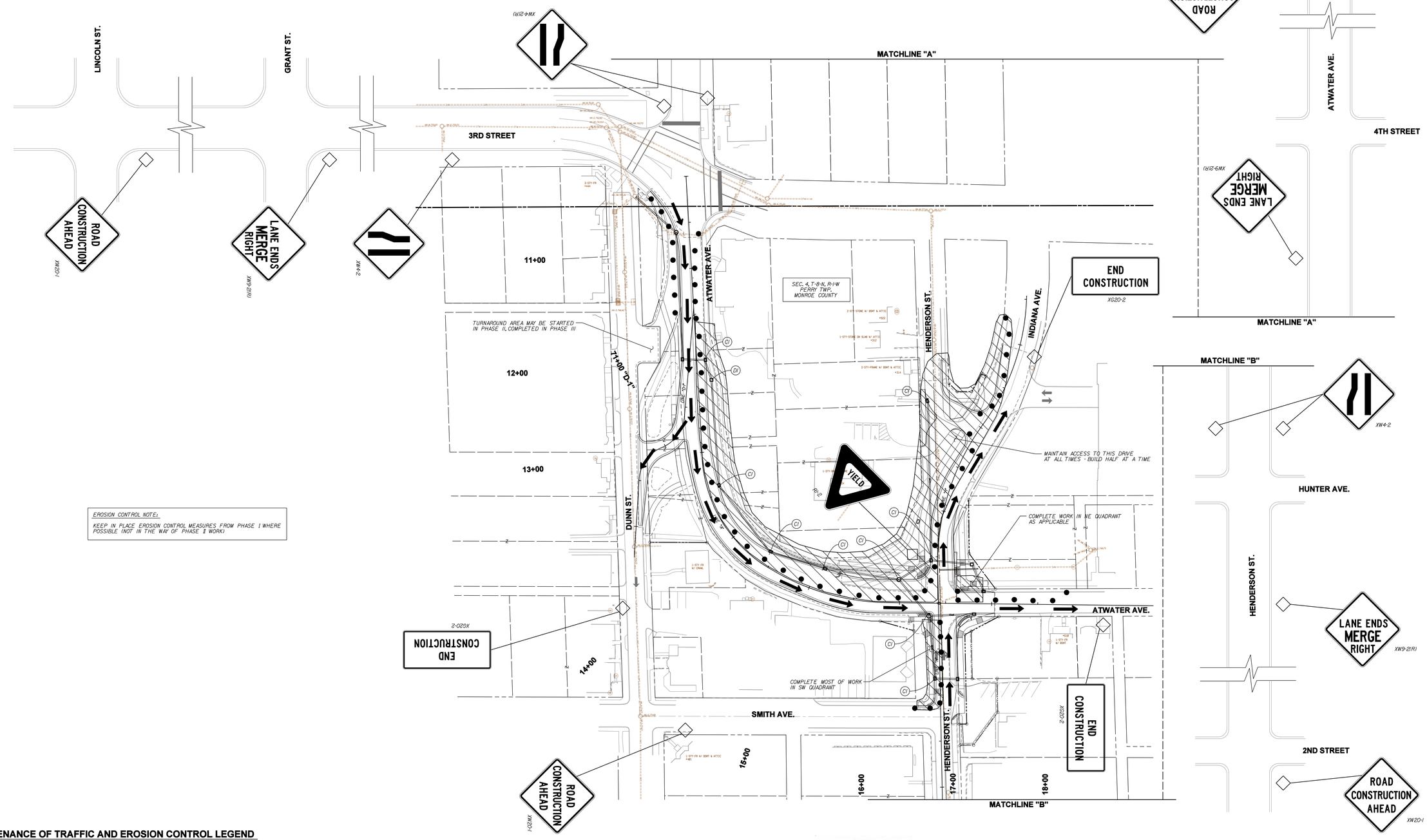
PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME	PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME	PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME
I	- CONSTRUCT NEW DUNN CONNECTOR - CONSTRUCT SE CORNER OF ATWATER/ HENDERSON INTERSECTION - CONSTRUCT PORTIONS OF NE QUADRANT NOT IN ATWATER - INSTALL STORMSEWER OUTFALL PIPE ACROSS DUNN CONNECTOR	- CLOSE RIGHT LANE OF ATWATER THROUGH PROJECT AREA WHEN NEEDED. - CLOSE RIGHT LANE OF HENDERSON - CLOSE ½ OF EXISTING DUNN CONNECTOR AT A TIME FOR STORM SEWER	II	- CONSTRUCT ALL EAST AND NORTH-SIDE FEATURE ON ATWATER, AND WESTSIDE FEATURE ON HENDERSON, INCLUDING CHANGES TO LEFT TURN LANE FROM ATWATER TO HENDERSON - CONSTRUCT PORTIONS OF SW QUADRANT NOT IN ATWATER - BEGIN WORK TO REMOVE OLD DUNN CONNECTOR - BEGIN INSTALLATION OF SIGNAL	- CLOSE LEFT LANE OF ATWATER THROUGH PROJECT AS NEEDED - CLOSE LEFT LANE OF HENDERSON - PUT TRAFFIC ON NEW DUNN CONNECTOR	III	- COMPLETE REMOVAL OF OLD DUNN CONNECTOR AND CONSTRUCT NEW TURNAROUND - COMPLETE WORK IN NE AND SW QUADRANTS - COMPLETE SIGNAL INSTALLATION	- CLOSE ONE LANE OF ATWATER AND/OR HENDERSON AT A TIME WHEN NEEDED



EROSION CONTROL NOTE:

KEEP IN PLACE EROSION CONTROL MEASURES FROM PHASE 1 WHERE POSSIBLE (NOT IN THE WAY OF PHASE II WORK)

MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
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- TRAFFIC FLOW DIRECTION
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- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

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DESIGNED: BR — DRAWN: SI

CHECKED: JAW (DPW) — CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLAN - PHASE II

HORIZONAL SCALE	BRIDGE FILE
1" = 50'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
N/A	5 of 36
CONTRACT	PROJECT
R-31762	0800443

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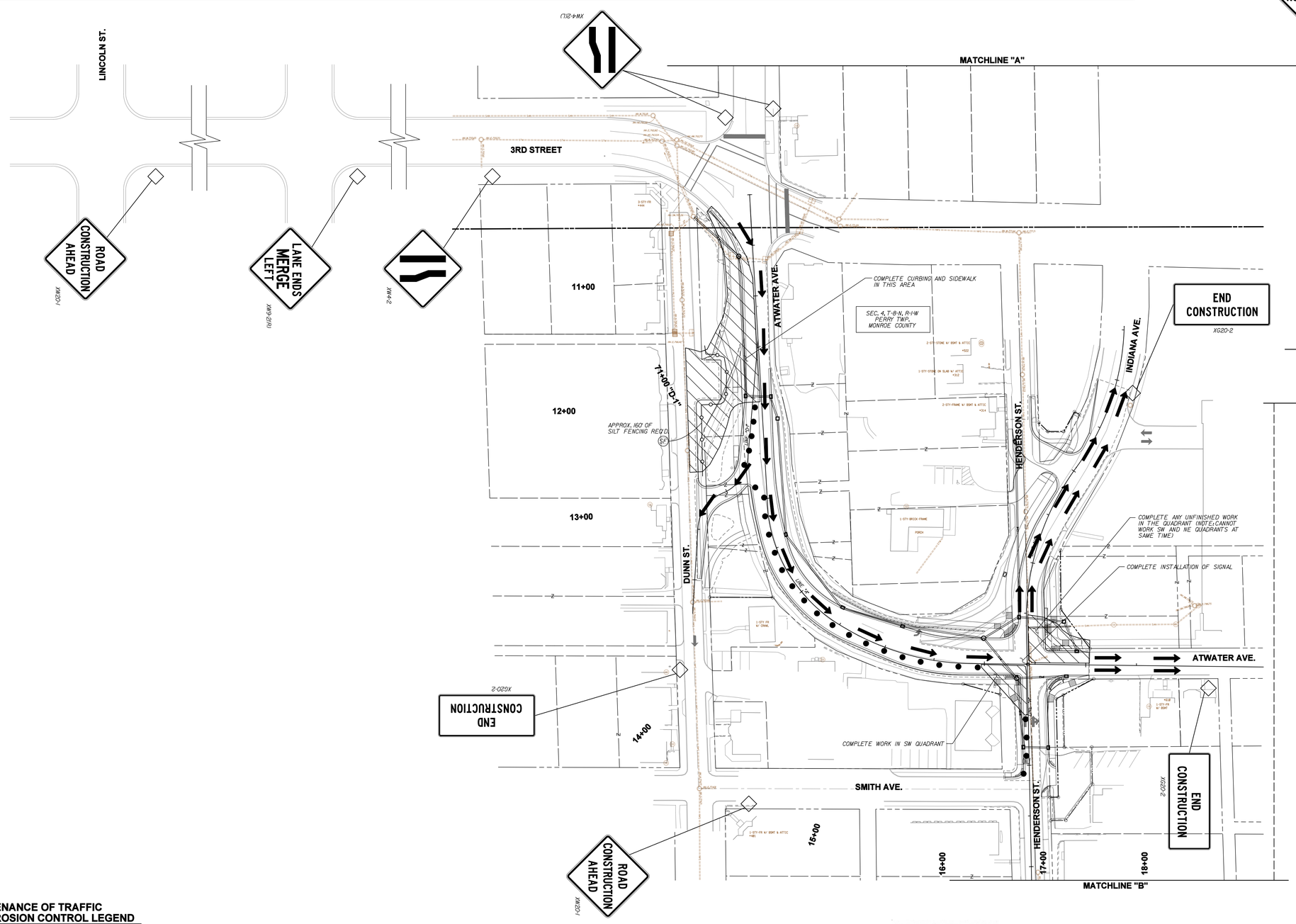
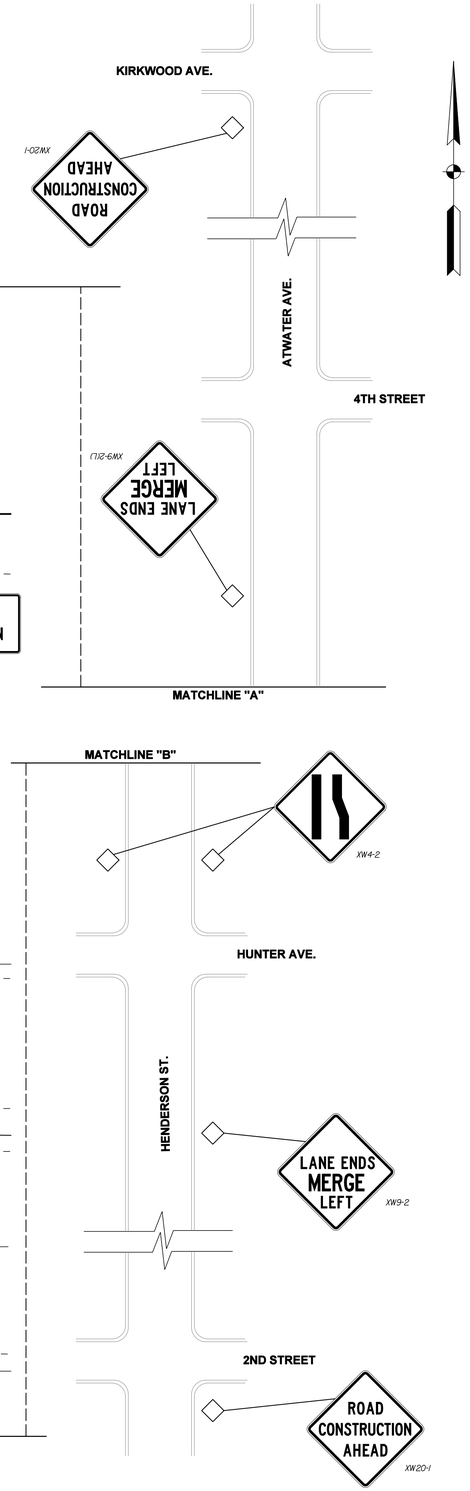
PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME	PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME	PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME
I	- CONSTRUCT NEW DUNN CONNECTOR - CONSTRUCT SE CORNER OF ATWATER/ HENDERSON INTERSECTION - CONSTRUCT PORTIONS OF NE QUADRANT NOT IN ATWATER - INSTALL STORMSEWER OUTFALL PIPE ACROSS DUNN CONNECTOR	- CLOSE RIGHT LANE OF ATWATER THROUGH PROJECT AREA WHEN NEEDED. - CLOSE RIGHT LANE OF HENDERSON - CLOSE ½ OF EXISTING DUNN CONNECTOR AT A TIME FOR STORM SEWER	II	- CONSTRUCT ALL EAST AND NORTH-SIDE FEATURE ON ATWATER, AND WEST-SIDE FEATURE ON HENDERSON, INCLUDING CHANGES TO LEFT TURN LANE FROM ATWATER TO HENDERSON - CONSTRUCT PORTIONS OF SW QUADRANT NOT IN ATWATER - BEGIN WORK TO REMOVE OLD DUNN CONNECTOR - BEGIN INSTALLATION OF SIGNAL	- CLOSE LEFT LANE OF ATWATER THROUGH PROJECT AS NEEDED - CLOSE LEFT LANE OF HENDERSON - PUT TRAFFIC ON NEW DUNN CONNECTOR	III	- COMPLETE REMOVAL OF OLD DUNN CONNECTOR AND CONSTRUCT NEW TURNAROUND - COMPLETE WORK IN NE AND SW QUADRANTS - COMPLETE SIGNAL INSTALLATION	- CLOSE ONE LANE OF ATWATER AND/OR HENDERSON AT A TIME WHEN NEEDED





MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

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DESIGNED: BR — DRAWN: SI

CHECKED: JAW (DPW) — CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLAN - PHASE III

HORIZONAL SCALE	BRIDGE FILE	
1" = 50'-0"	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	0800443	
SURVEY BOOK	SHEETS	
N/A	6 of 36	
CONTRACT	PROJECT	
R-31762	0800443	

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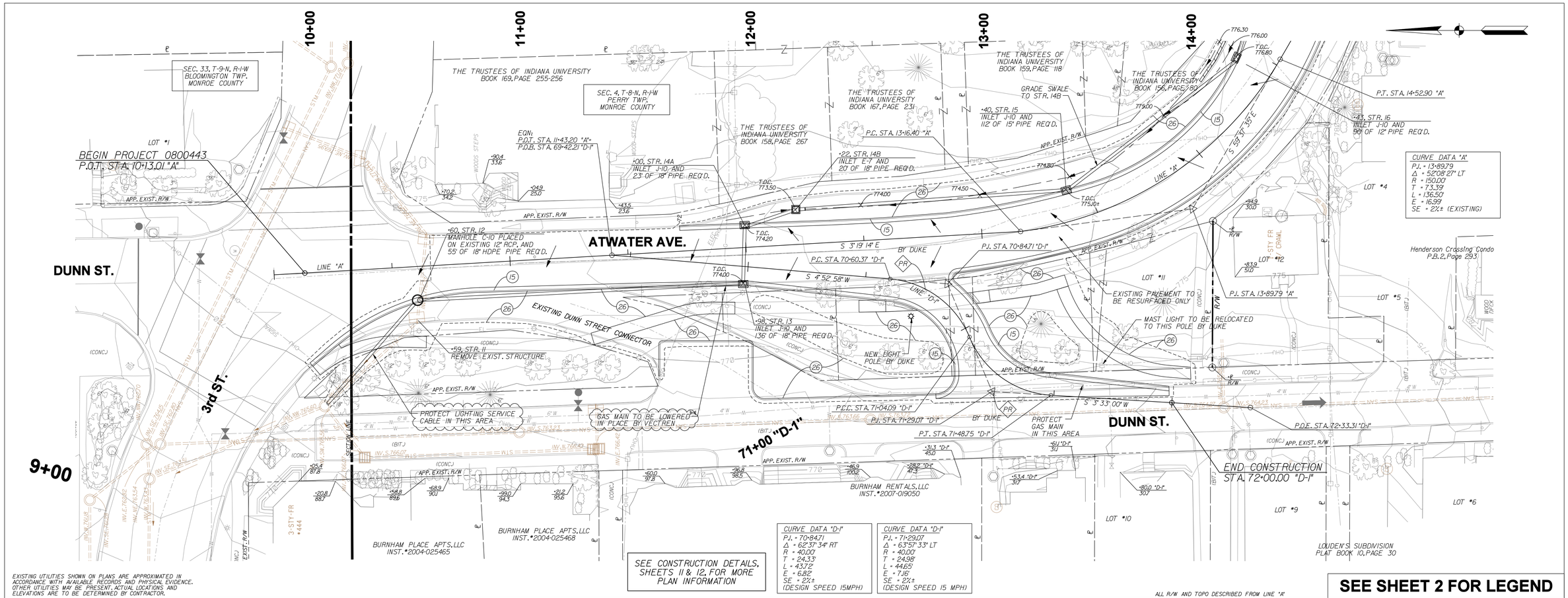

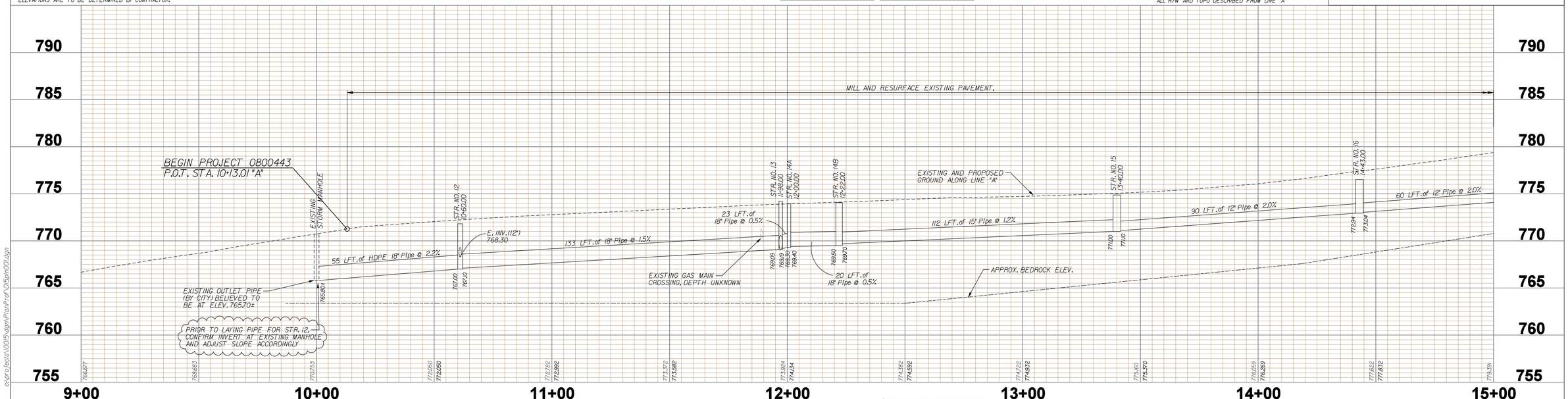

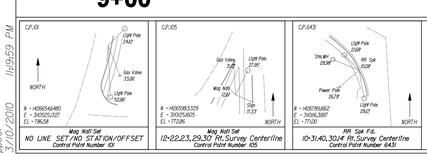

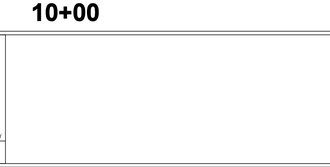

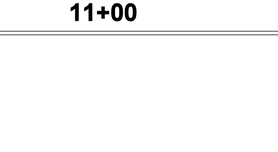

BROCK RIDGWAY
REGISTERED
No. 19300092
STATE OF INDIANA
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — 10/30/09 DATE

DESIGNED: BR | DRAWN: SI
CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
N/A	7 of 36
CONTRACT	PROJECT
R-31762	0800443

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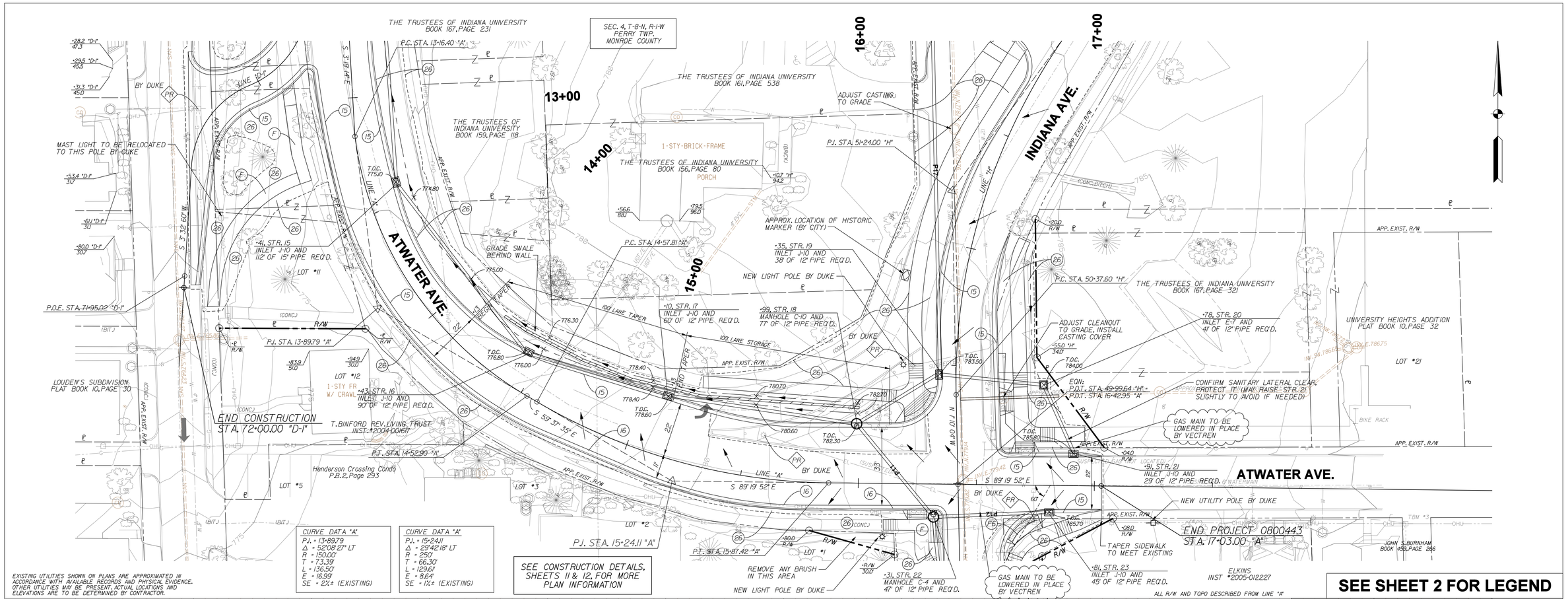


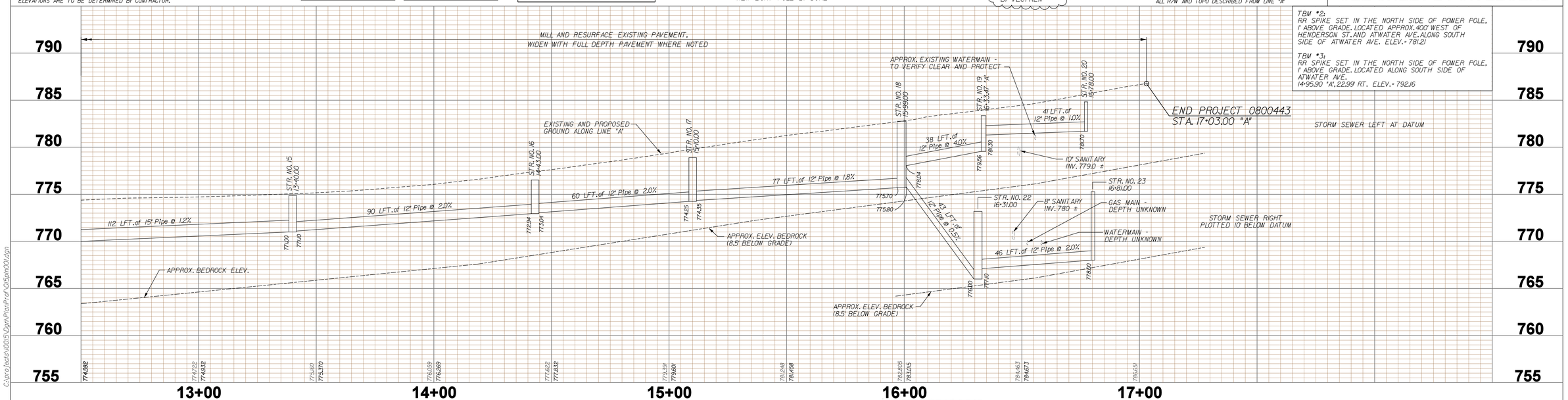
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

CURVE DATA "A"
P.I. = 13+89.79
Δ = 52°08'27" LT
R = 150.00'
T = 73.39'
L = 136.50'
E = 16.99'
SE = 2%± (EXISTING)

CURVE DATA "A"
P.I. = 15+24.11
Δ = 29°42'18" LT
R = 250'
T = 66.30'
L = 129.61'
E = 8.64'
SE = 1%± (EXISTING)

SEE CONSTRUCTION DETAILS, SHEETS 11 & 12, FOR MORE PLAN INFORMATION

SEE SHEET 2 FOR LEGEND



TBM #2:
RR SPIKE SET IN THE NORTH SIDE OF POWER POLE. 1' ABOVE GRADE. LOCATED APPROX. 400' WEST OF HENDERSON ST. AND ATWATER AVE. ALONG SOUTH SIDE OF ATWATER AVE. ELEV. = 781.21

TBM #3:
RR SPIKE SET IN THE NORTH SIDE OF POWER POLE. 1' ABOVE GRADE. LOCATED ALONG SOUTH SIDE OF ATWATER AVE. 14+95.90 "A", 22.99' RT. ELEV. = 792.16

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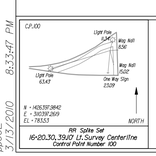

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

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DESIGNED: BR | DRAWN: SI
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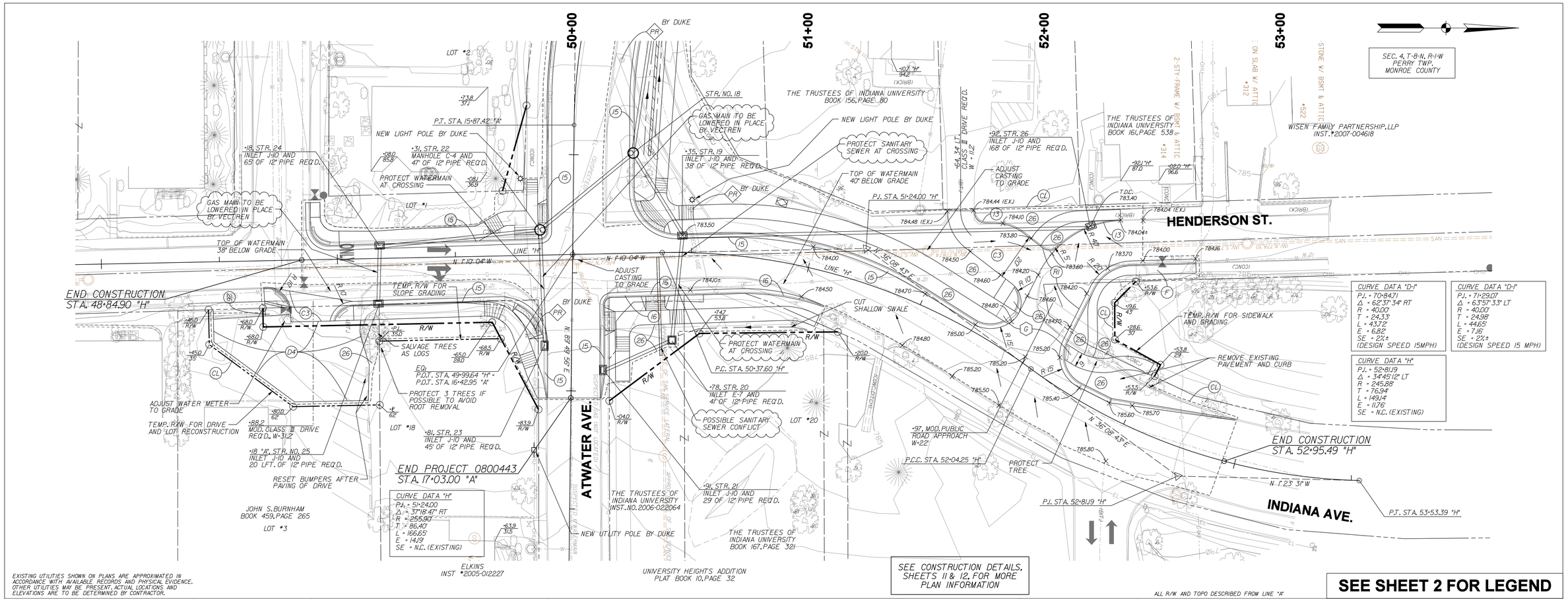
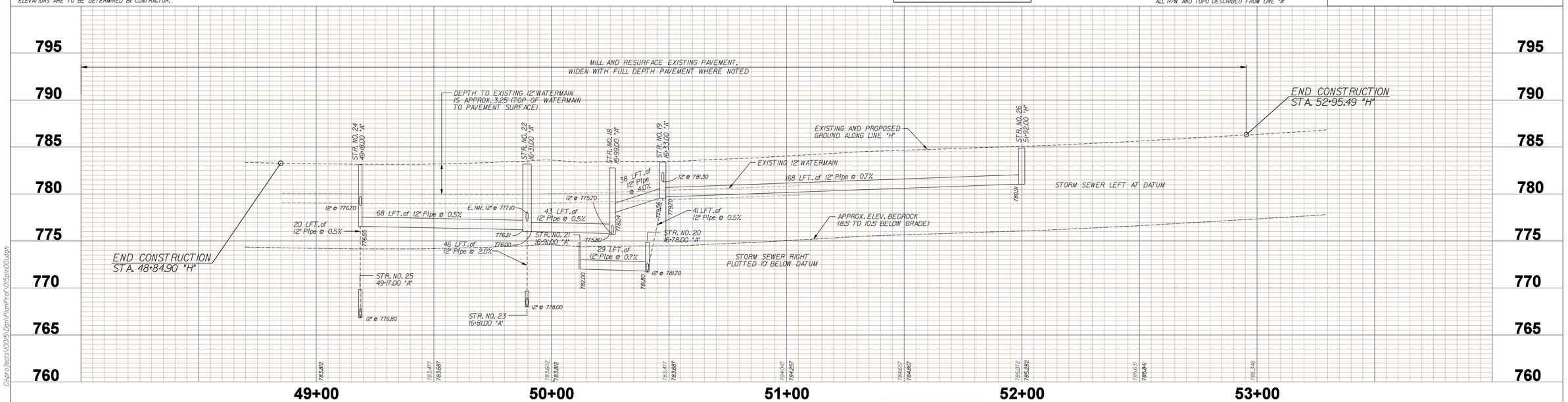
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
N/A	8 of 36
CONTRACT	PROJECT
R-31762	0800443





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DESIGNED: BR — DRAWN: SI

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INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINE "H"

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
N/A	9 of 36
CONTRACT	PROJECT
R-31762	0800443

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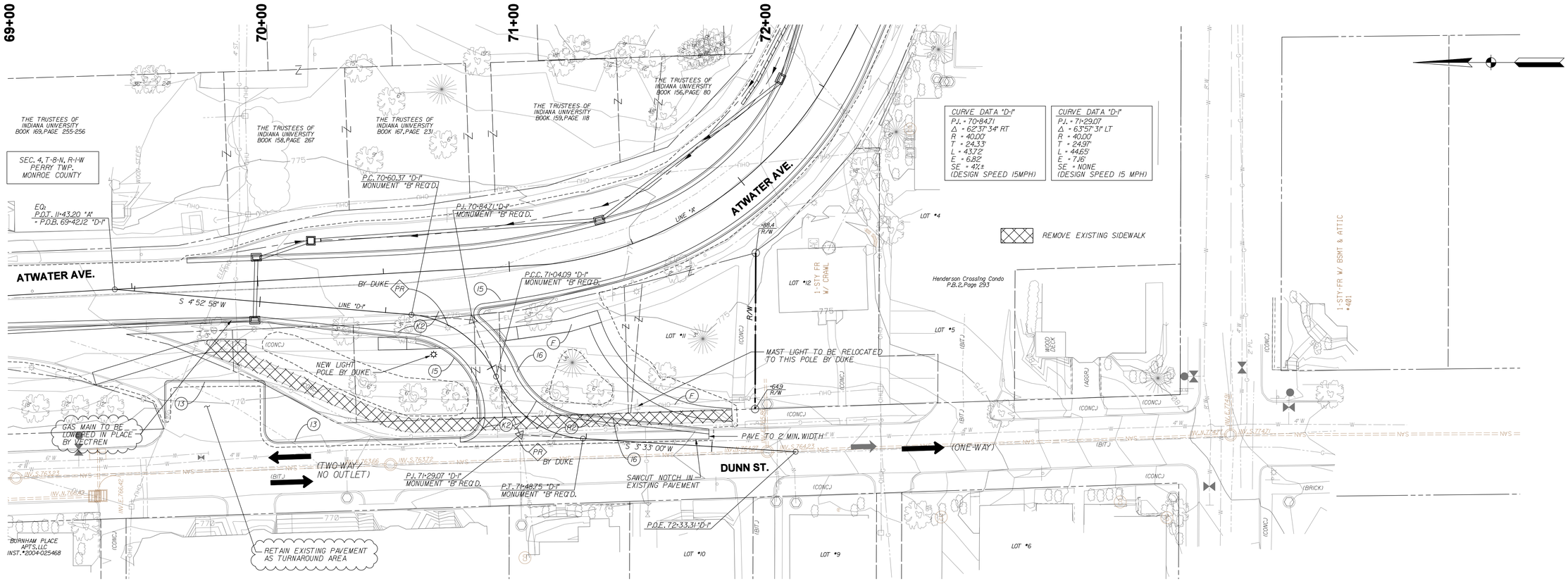

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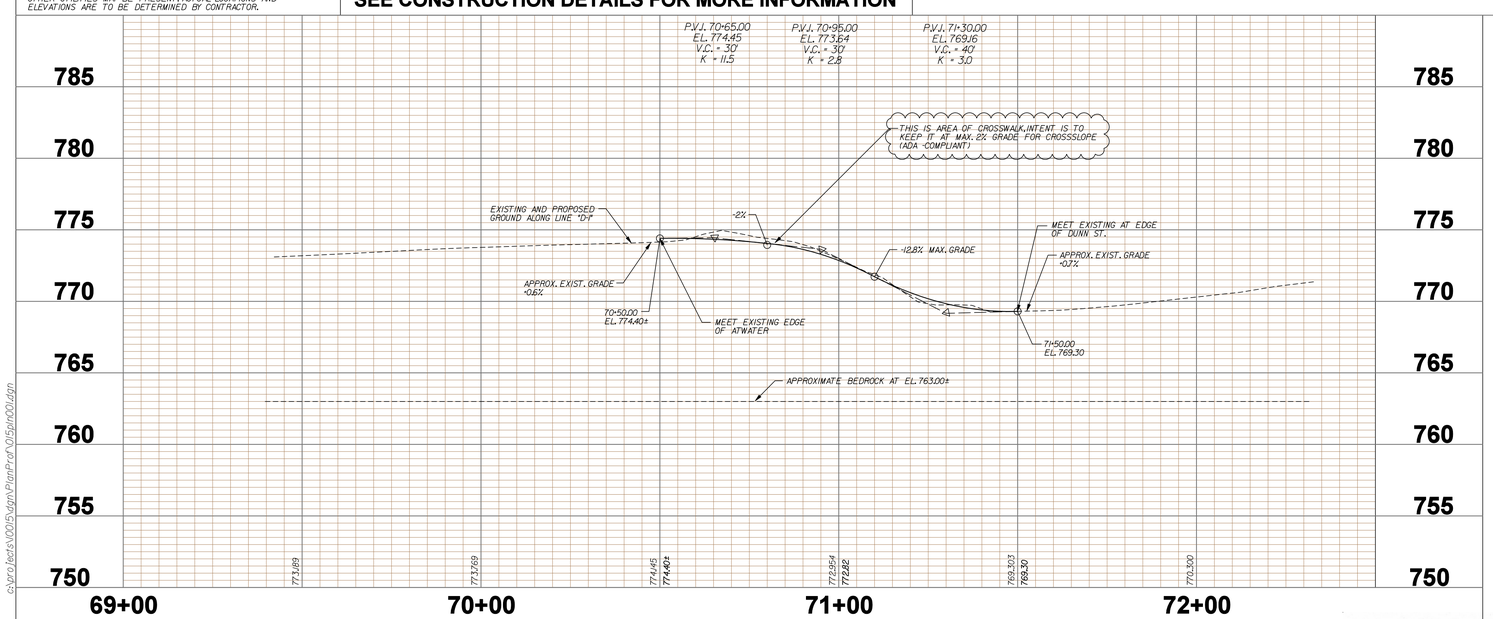
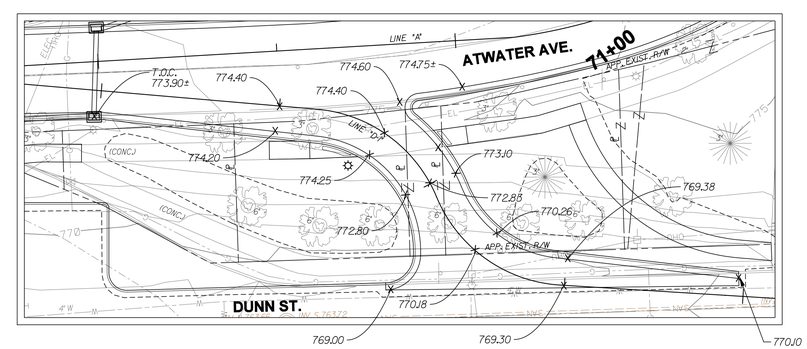
SEE CONSTRUCTION DETAILS FOR MORE INFORMATION

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

SEE SHEET 2 FOR LEGEND





DUNN STREET CONNECTOR
SPOT GRADING PLAN

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BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

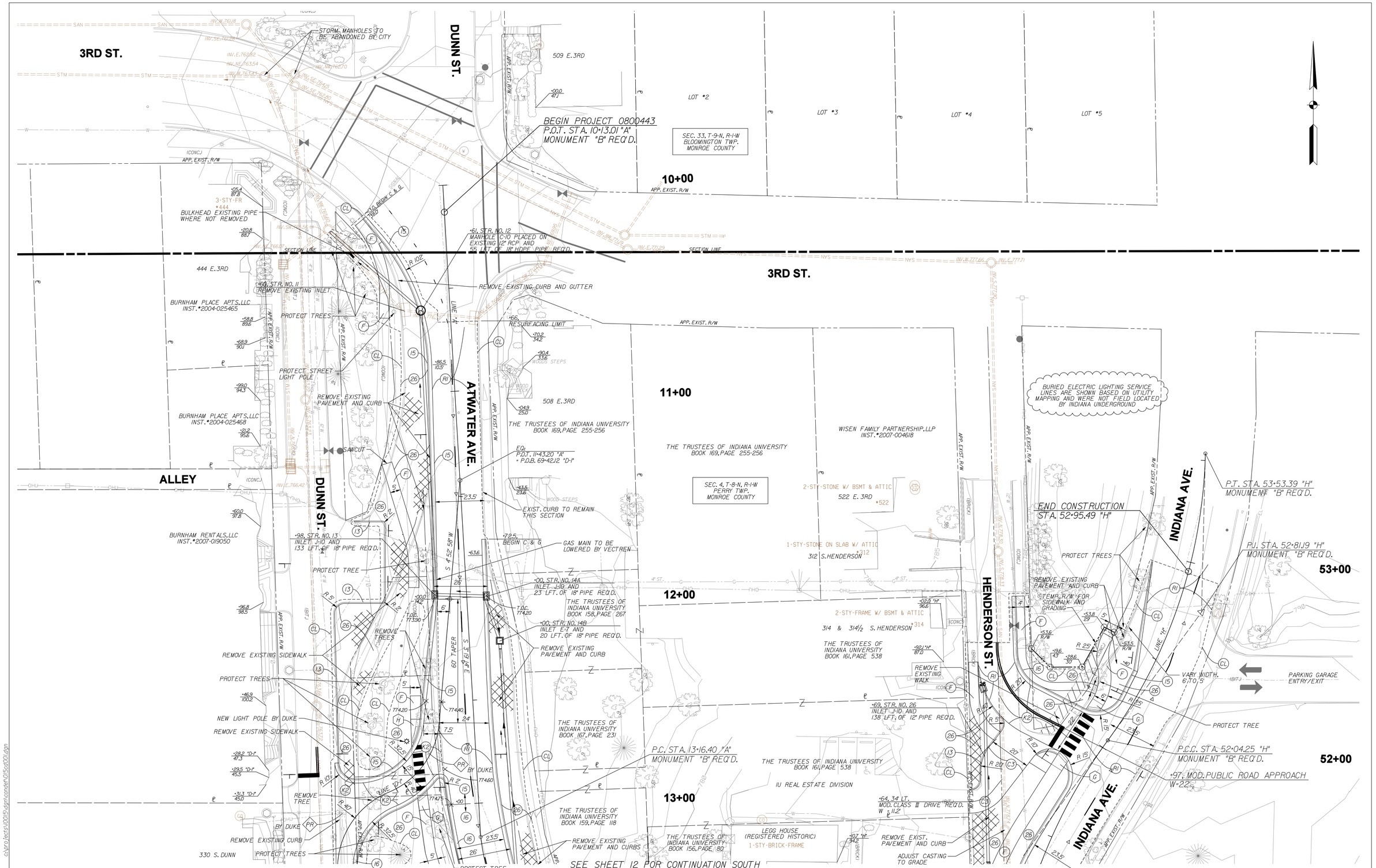
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 10/30/09 DATE

DESIGNED: BR DRAWN: SI
CHECKED: JAW (DPW) CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "D-1"

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
N/A	10 of 36
CONTRACT	PROJECT
R-31762	0800443



SEE SHEET 2 FOR LEGEND

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

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INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
N/A	11 of 36
CONTRACT	PROJECT
R-31762	0800443

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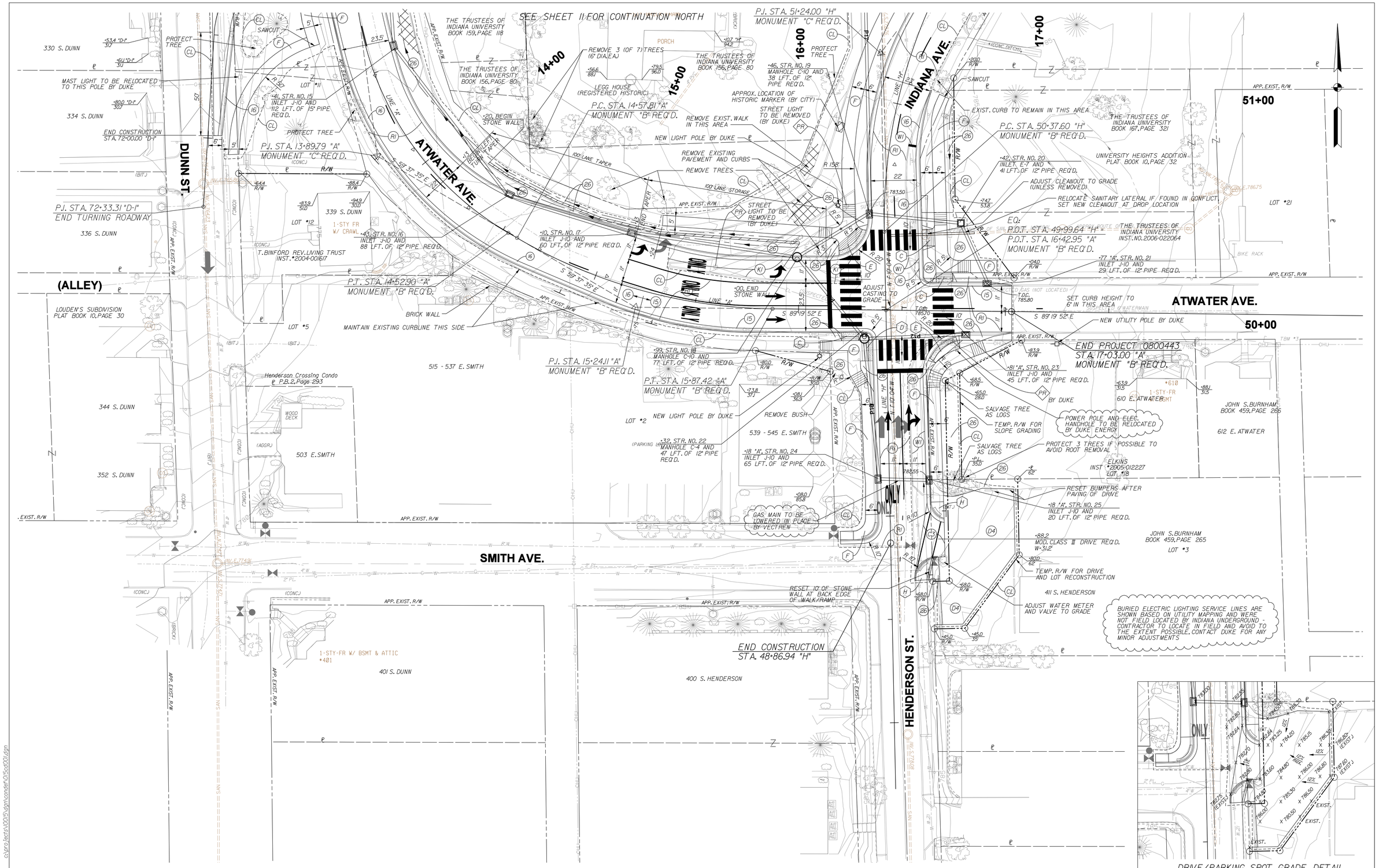

SEE SHEET 2 FOR LEGEND

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1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443

SURVEY BOOK	SHEETS
N/A	12 of 36
CONTRACT	PROJECT
R-31762	0800443

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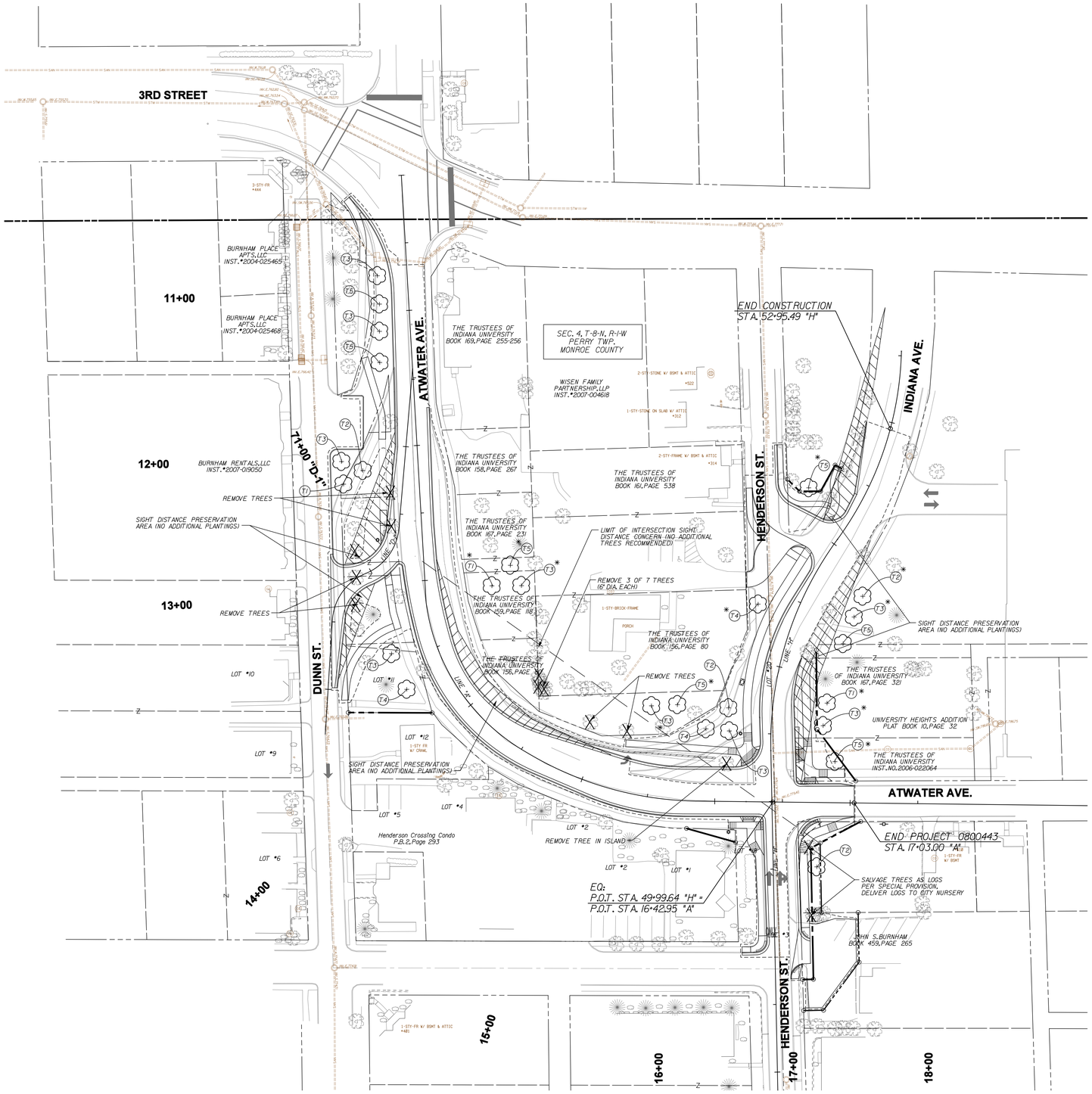

SIGHT DISTANCE PRESERVATION AREAS (DO NOT PLANT TREES IN THESE AREAS)

SYMBOL	COMMON NAME	SPECIES NAME	CALIPER	COUNT
T1	HACKBERRY	CELTIS OCCIDENTALIS	2"	3
T2	RED OAK	QUERCES RUBRA	1 3/4"	4
T3	"IVORY SILK" LILAC	SYRINGA RETICULATE	2"	9
T4	AMERICAN LINDEN	TILIA AMERICANA "REDMOND"	2"	3
T5	GREEN VASE JAPANESE SELCOVA	ZELCOVA SERRATA	2"	7
TOTAL FOR PLANTS, DECIDUOUS TREE, SINGLE STEM, OVER 1.25 IN. TO 2 IN.				26 EA.

* TREES ON IU PROPERTY: THESE TREES ARE PROPOSED FOR PLANTING ON OR ADJACENT TO IU PROPERTY. CONTRACTOR SHALL COORDINATE WITH THE UNIVERSITY LANDSCAPE ARCHITECT (MIA WILLIAMS AT (812) 855-1266) TO HAVE PROPOSED TREE PLANTING LOCATIONS APPROVED PRIOR TO PLANTING.

TREE LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL STAKE PROPOSED LOCATIONS IN THE FIELD, ADJUST THEM BASED ON CONFLICTS WITH UTILITIES AND OTHER FEATURES, AND GAIN THE APPROVAL OF CITY OR UNIVERSITY PRIOR TO PLANTING.

TREE IMPACT SUMMARY **
13 TO REMOVE
26 NEW

** TREE PLANTING SHALL BE COMPLETED AT RATE OF TWO NEW TREES FOR EACH ONE REMOVED

TREE PLANTING LEGEND:

- (+) NEW TREE
- (T1) TREE, HACKBERRY (CELTIS OCCIDENTALIS), 2"
- (T2) TREE, RED OAK (QUERCUS RUBRA), 1 3/4"
- (T3) TREE, LILAC (SYRINGA RETICULATE "IVORY SILK"), 2"
- (T4) TREE, AMERICAN LINDEN (TILIA AMERICANA "REDMOND"), 2"
- (T5) TREE, GREEN VASE JAPANESE ZELCOVA (ZELCOVA SERRATA), 2"
- (25) MULCHED SEEDING, TYPE "U"
- (26) SODDING, NURSERY

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — 10/30/09 DATE

DESIGNED: BR | DRAWN: SI

CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

LANDSCAPING/PLANTING PLAN

HORIZONAL SCALE	BRIDGE FILE
1" = 40'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0800443
SURVEY BOOK	SHEETS
N/A	13 of 36
CONTRACT	PROJECT
R-31762	0800443

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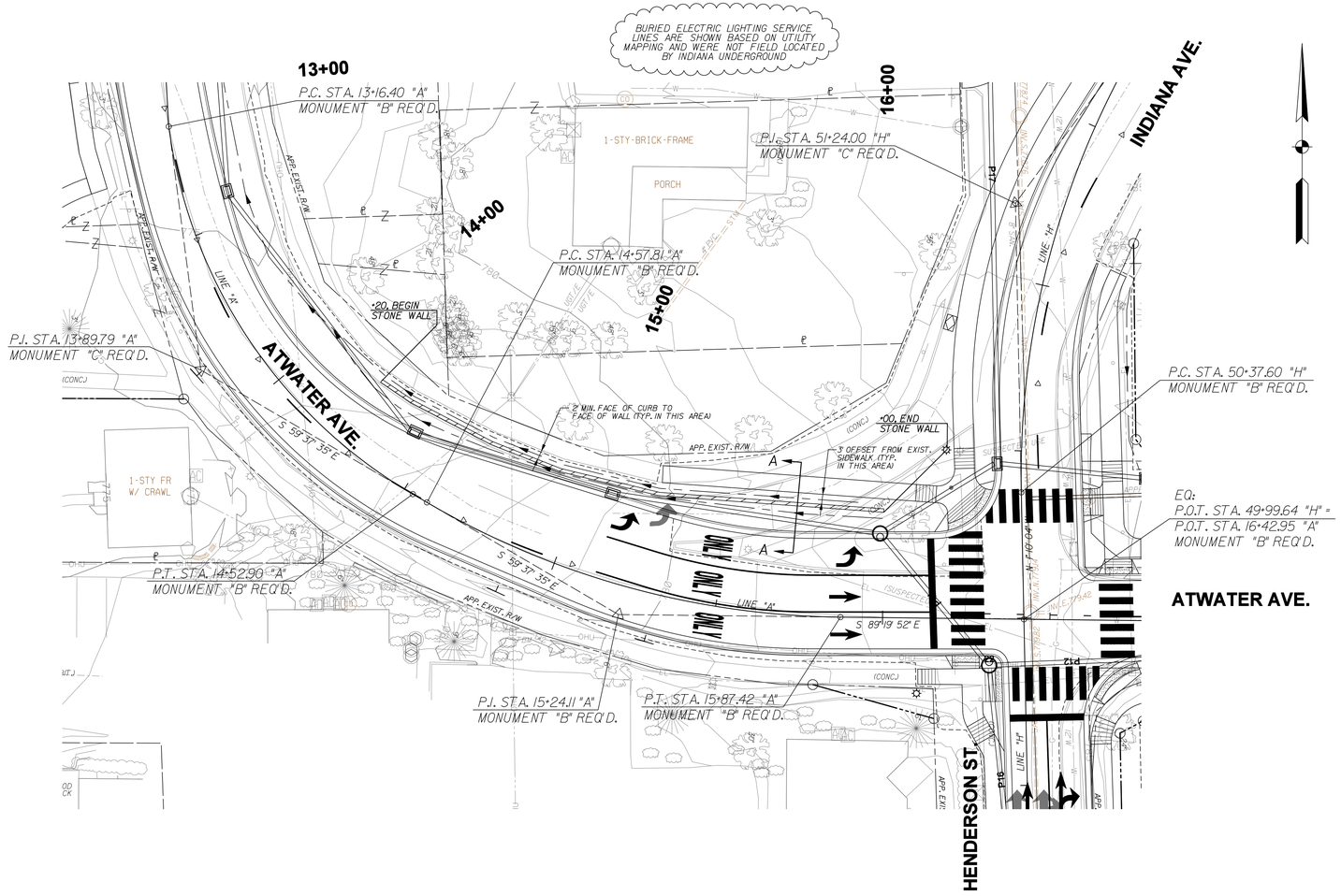


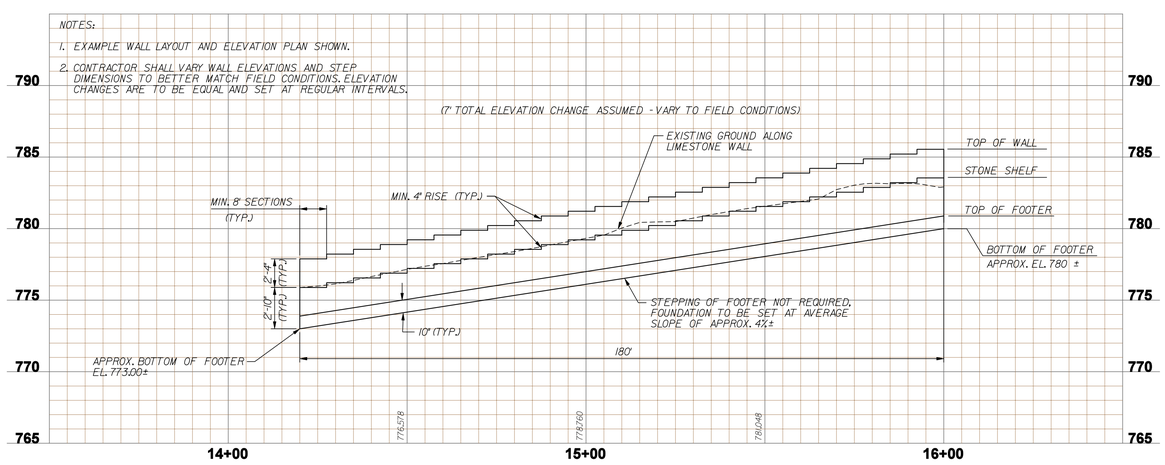
EXAMPLE LIMESTONE WALL

(EXISTING WALL FOR EXAMPLE IS LOCATED ON NORTH SIDE OF ATWATER AVENUE JUST EAST OF FESS AVENUE) PROPOSED WALL IS TO MATCH THIS WALL IN FORM AND COLOR

PROPOSED STONE WALL

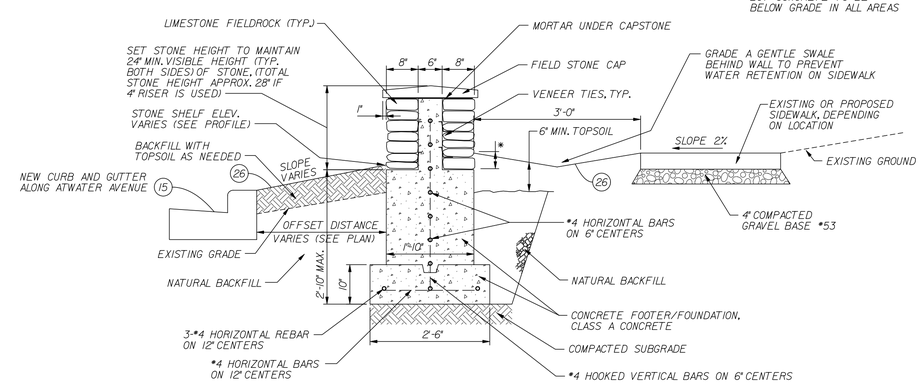
NOTES:

1. EXAMPLE WALL LAYOUT AND ELEVATION PLAN SHOWN.
2. CONTRACTOR SHALL VARY WALL ELEVATIONS AND STEP DIMENSIONS TO BETTER MATCH FIELD CONDITIONS. ELEVATION CHANGES ARE TO BE EQUAL AND SET AT REGULAR INTERVALS.



WALL ELEVATION CONCEPTUAL LAYOUT

* STONE CONCEAL MAY VARY, BUT CONCRETE TO BE BELOW GRADE IN ALL AREAS



A LIMESTONE FIELDROCK WALL SECTION

NTS

SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS

SEE SHEET 2 FOR LEGEND

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — DATE 10/30/09

DESIGNED: BR | DRAWN: SI

CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

STONE WALL DETAILS

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
N/A	14 of 36
CONTRACT	PROJECT
R-31762	0800443

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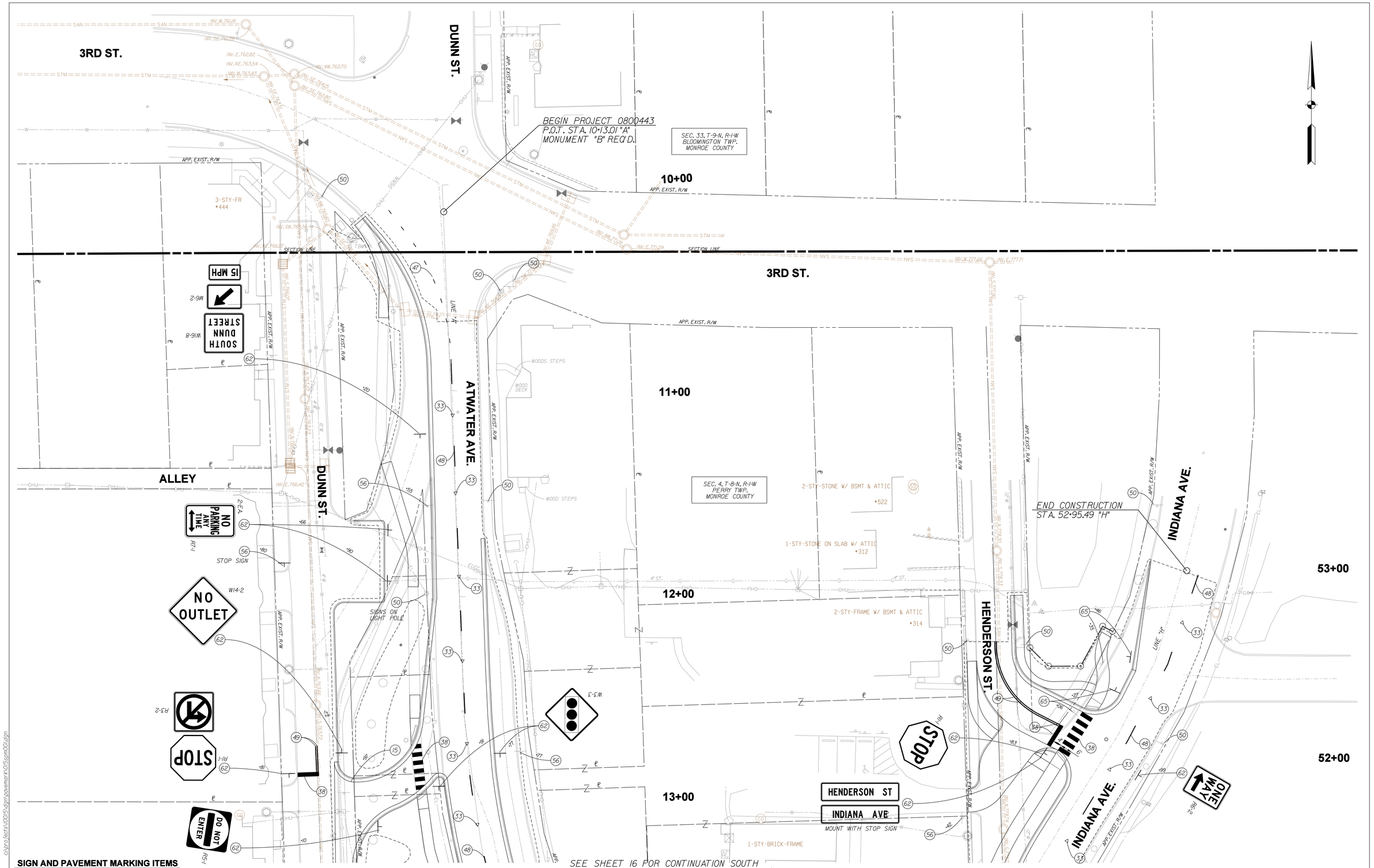

SEE SHEET 16 FOR CONTINUATION SOUTH

SIGN AND PAVEMENT MARKING ITEMS

(33) SNOWPLOWABLE RAISED PAVEMENT MARKER (WHITE) ON 30' SPACING	(46) 4" SOLID, THERMOPLASTIC, WHITE, LINE	(48) 4" BROKEN, THERMOPLASTIC, WHITE, LINE (10' SEGMENT, 20' GAP - 30' CYCLE)	(65) EXISTING SIGN TO BE REMOVED THEN RESET BY CONTRACTOR
(36) THERMOPLASTIC TRANSVERSE MESSAGE MARKING, ARROW	(47) 4" DOTTED, THERMOPLASTIC, WHITE, LINE (2' SEGMENT, 8' GAP - 10' CYCLE)	(56) REMOVE EXISTING SHEET SIGN AND SUPPORTS	(66) EXISTING SIGN TO BE REMOVED AND RESET BY OWNER
(37) THERMOPLASTIC PAVEMENT MESSAGE MARKING, WORD "ONLY"	(49) 4" DOUBLE, THERMOPLASTIC, YELLOW, LINE	(62) NEW SHEET SIGN AND SUPPORTS REQUIRED	
(38) 24" STOP LINE, THERMOPLASTIC, WHITE, TRANSVERSE MARKING	(50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS	(64) NEW LOCAL ROAD NAME SIGN AND SUPPORT REQUIRED	
(39) 8" SOLID, THERMOPLASTIC, WHITE, LINE			

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — 10/30/09 DATE

DESIGNED: BR — DRAWN: SI
CHECKED: JAW (DPW) — CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN AND PAVEMENT MARKINGS PLAN

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
N/A	15 of 36
CONTRACT	PROJECT
R-31762	0800443

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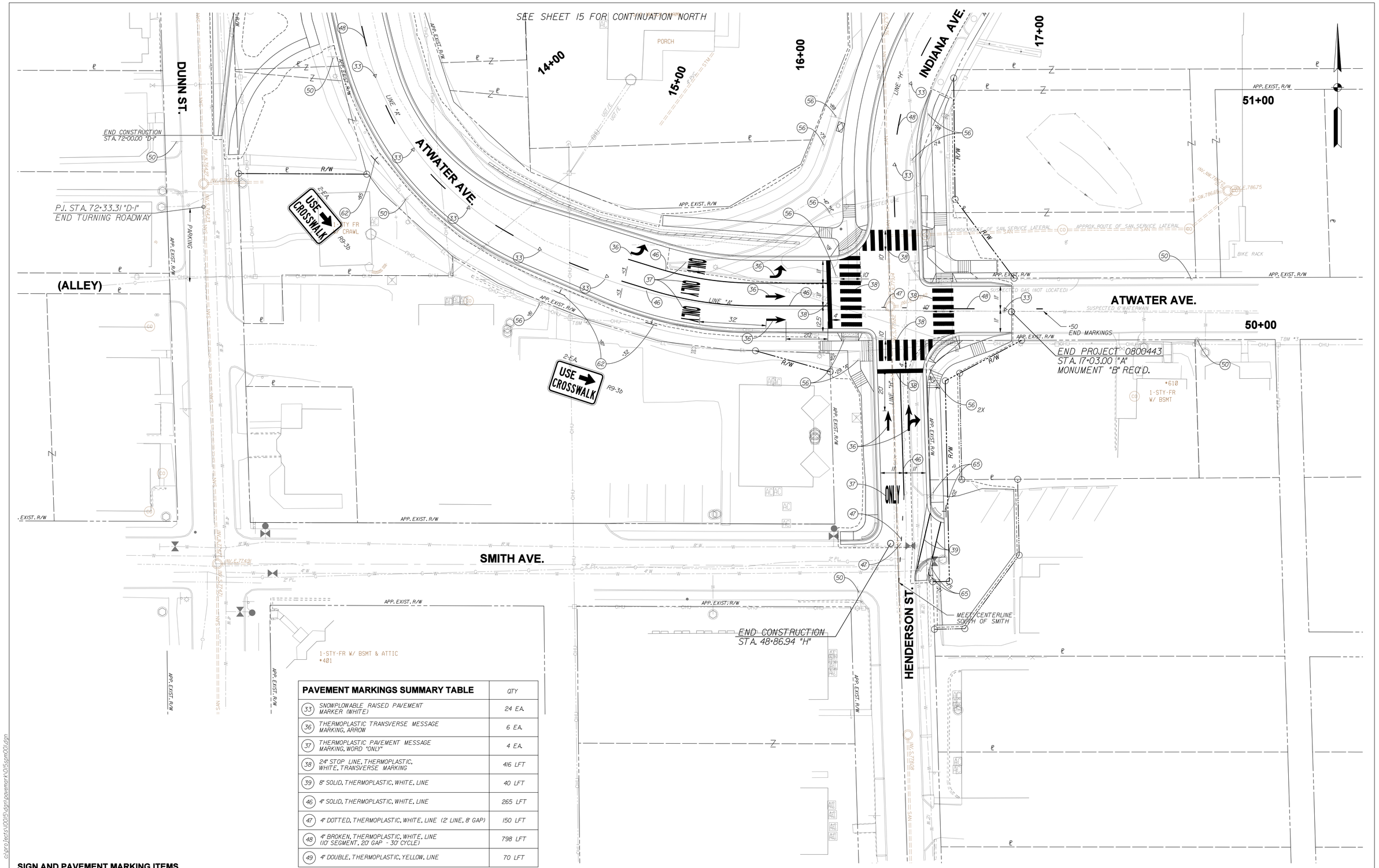

PAVEMENT MARKINGS SUMMARY TABLE	QTY
(33) SNOWPLOWABLE RAISED PAVEMENT MARKER (WHITE)	24 EA.
(36) THERMOPLASTIC TRANSVERSE MESSAGE MARKING, ARROW	6 EA.
(37) THERMOPLASTIC PAVEMENT MESSAGE MARKING, WORD "ONLY"	4 EA.
(38) 24" STOP LINE, THERMOPLASTIC, WHITE, TRANSVERSE MARKING	416 LFT
(39) 8" SOLID, THERMOPLASTIC, WHITE, LINE	40 LFT
(46) 4" SOLID, THERMOPLASTIC, WHITE, LINE	265 LFT
(47) 4" DOTTED, THERMOPLASTIC, WHITE, LINE (2' LINE, 8' GAP)	150 LFT
(48) 4" BROKEN, THERMOPLASTIC, WHITE, LINE (10' SEGMENT, 20' GAP - 30' CYCLE)	798 LFT
(49) 4" DOUBLE, THERMOPLASTIC, YELLOW, LINE	70 LFT

SIGN AND PAVEMENT MARKING ITEMS

- (33) SNOWPLOWABLE RAISED PAVEMENT MARKER (WHITE) ON 30' SPACING
- (36) THERMOPLASTIC TRANSVERSE MESSAGE MARKING, ARROW
- (37) THERMOPLASTIC PAVEMENT MESSAGE MARKING, WORD "ONLY"
- (38) 24" STOP LINE, THERMOPLASTIC, WHITE, TRANSVERSE MARKING
- (39) 8" SOLID, THERMOPLASTIC, WHITE, LINE
- (46) 4" SOLID, THERMOPLASTIC, WHITE, LINE
- (47) 4" DOTTED, THERMOPLASTIC, WHITE, LINE (2' SEGMENT, 8' GAP - 10' CYCLE)
- (49) 4" DOUBLE, THERMOPLASTIC, YELLOW, LINE
- (50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS
- (48) 4" BROKEN, THERMOPLASTIC, WHITE, LINE (10' SEGMENT, 20' GAP - 30' CYCLE)
- (56) REMOVE EXISTING SHEET SIGN AND SUPPORTS
- (62) NEW SHEET SIGN AND SUPPORTS REQUIRED
- (64) NEW LOCAL ROAD NAME SIGN AND SUPPORT REQUIRED
- (65) EXISTING SIGN TO BE REMOVED THEN RESET BY CONTRACTOR
- (66) EXISTING SIGN TO BE REMOVED AND RESET BY OWNER

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 10/30/09

DESIGNED: BR | DRAWN: SI
CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN AND PAVEMENT MARKINGS PLAN

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
N/A	16 of 36
CONTRACT	PROJECT
R-31762	0800443

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SHEET SIGN SUMMARY TABLE

SIGN DATA																	POST DATA										
LOCATION				SIGN DESCRIPTION	SIGN CODE	SIGN SIZE	REMOVE SIGN	RELOCATE EXISTING SIGN	NEW SIGN	ENCAPSULATED LENS METAL THICKNESS (in.)			~~ENCLOSED LENS METAL THICKNESS (in.)~~			SQUARE, QWIK - PUNCH									PVC PIPE SLEEVE FOR SIGN IN SIDEWALK	REMARKS
																TYPE 2 2"x2"x12 ga.			TYPE 1 2.25" x 2.25" x 12 ga.			TYPE 3 2.5"x2.5"x12 ga.				
																REINFORCED			REINFORCED			UNREINFORCED				
STATION	LEFT	MEDIAN	RIGHT							0.080	0.100	0.125	~~0.080~~	~~0.100~~	~~0.125~~	POST LENGTH (FT)			POST LENGTH (FT)			POST LENGTH (FT)				
						in. x in.	EACH	EACH		SFT	SFT	SFT	~~SFT~~	~~SFT~~	~~SFT~~	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	EACH	
LINE "A"																											
11+20			X	SOUTH DUNN STREET	Unique	18x18			X	2.25									12		12					
			X	DIRECTION ARROW	M6-2	18x12			X	1.50																MOUNT WITH "SOUTH DUNN STREET"
			X	15 MPH	W13-1	12x12			X	1.00																MOUNT WITH "SOUTH DUNN STREET"
11+55			X	EXISTING (ISLAND DIVIDER)	NA	Exist.	X																			
11+66			X	NO PARKING ANY TIME	R7-1	12x18			X	1.50									12		12					
11+80			X	EXISTING (STOP)	NA	Exist.	X																			
11+90			X	NO PARKING ANY TIME	R7-1	12x18			X	1.50									12		12					
12+72			X	NO OUTLET	W14-2	30x30			X	6.25									12		12					
12+77	X			SIGNAL AHEAD	W3-3	36x36			X	9.00									12		12					
12+77	X			EXISTING (NO PARKING)	NA	Exist.	X																			
12+81			X	STOP SIGN	R1-1	30x30			X	6.25									12		12					
12+91	X			SIGNAL AHEAD	W3-3	36x36			X	9.00									12		12					
13+10			X	DO NOT ENTER	R5-1	30x30			X	6.25									12		12					
13+85			X	USE CROSSWALK	R9-3b	18x12			X	1.50									12		12					
14+81			X	EXISTING (PED XING)	NA	Exist.	X																			
14+87			X	USE CROSSWALK	R9-3b	18x12			X	1.50									12		12					
15+32			X	USE CROSSWALK	R9-3b	18x12			X	1.50									12		12					
16+18	X			EXISTING (ONE WAY)	NA	Exist.	X																			
16+22			X	EXISTING (ONE WAY)	NA	Exist.	X																			
16+29			X	EXISTING (STOP)	NA	Exist.	X																			
16+63			X	EXISTING (STOP)	NA	Exist.	X																			
16+63			X	EXISTING (ONE WAY)	NA	Exist.	X																			
LINE "H"																											
48+75			X	EXISTING (ONE WAY)	NA	Exist.		X											12		12					
49+11			X	EXISTING (ONE WAY)	NA	Exist.		X											12		12					
50+47	X			EXISTING (YIELD)	NA	Exist.	X																			
50+74			X	EXISTING (NO PARKING)	NA	Exist.	X																			
50+75	X			EXISTING (ONE WAY)	NA	Exist.	X																			
50+89	X			EXISTING (NO PARKING)	NA	Exist.	X																			
50+98			X	EXISTING (ONE WAY)	NA	Exist.	X																			
51+42	X			EXISTING (ONE WAY)	NA	Exist.	X																			
51+83	X			STOP SIGN	R1-1	30x30			X	6.25									12		12					
51+83	X			STREET NAME (INDIANA AVE)	D-3	12X Length			X	3.00									12		12					MOUNT WITH STOP SIGN
51+83	X			STREET NAME (HENDERSON ST)	D-3	12X Length			X	3.00									12		12					MOUNT WITH STOP SIGN
51+99			X	ONE WAY (LEFT)	R6-2(L)	18x24			X	3.00									12		12					
52+27	X			EXISTING (NO PARKING)	NA	Exist.		X											12		12					
52+46	X			EXISTING (ONE WAY)	NA	Exist.		X											12		12					
MOUNTED ON SIGNAL EQUIPMENT:																											
WEST SIDE				LEFT ONLY	R3-3(L)	30X36			X	7.50																
WEST SIDE				THRU ONLY	R3-5a	30X36			X	7.50																
WEST SIDE				THRU ONLY	R3-5a	30X36			X	7.50																
NORTH SIDE				ONE WAY (RIGHT)	R6-2 R	18X24			X	3.00																
NORTH SIDE				TURNING TRAFFIC MUST YIELD TO PEDESTRIANS	R10-15	30X36			X	7.50																
NORTH SIDE				NO TURN ON RED	R10-11a	24X30			X	5.00																
NORTH SIDE				STREET NAME (ATWATER AVE)	D-3	18X108			X			13.50														
EAST SIDE				TURNING TRAFFIC MUST YIELD TO PEDESTRIANS	R10-15	30X36			X	7.50																
EAST SIDE				NO TURN ON RED	R10-11a	24X30			X	5.00																
EAST SIDE				ONE WAY (LEFT)	R6-2(L)	18X24			X	3.00																
EAST SIDE				STREET NAME (HENDERSON ST)	D-3	18X120			X			15.00														
EAST SIDE				STREET NAME (INDIANA AVE)	D-3	18X102			X			12.75														
SOUTH SIDE				THRU AND RIGHT	R3-6 R	30X36			X	7.50																
SOUTH SIDE				THRU ONLY	R3-5a	30X36			X	7.50																
TOTALS							**15**	**4**	**15**	**132.75**	**0**	**41.25**						**0**			**228**			**0**	**0**	
PAY UNIT							**EACH**	**EACH**	**EACH**	**SFT**	**SFT**	**SFT**						**LFT**			**LFT**			**LFT**	**EACH**	

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Sign Summary Table
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BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — 10/30/09 DATE

DESIGNED: BR | DRAWN: SI

CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNS SUMMARY

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0800443
SURVEY BOOK	SHEETS
N/A	17 of 36
CONTRACT	PROJECT
R-31762	0800443

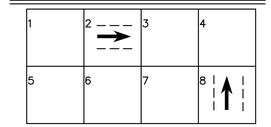
NOTES

1. ALL WORK TO CONFORM TO INDOT STANDARDS AND SPECIFICATIONS AND THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
2. CONTRACTOR SHALL VERIFY ALL UTILITIES BEFORE STARTING CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT BLOOMINGTON TRAFFIC DIVISION ONE WEEK BEFORE STARTING SIGNAL CONSTRUCTION.
4. SERVICE TO BE PROVIDED UNDERGROUND FROM THE EAST BY DUKE ENERGY. CONTRACTOR SHALL NOTIFY DUKE ENERGY AND BLOOMINGTON TRAFFIC DIVISION THREE WEEKS PRIOR TO BEING READY TO ENERGIZE SIGNAL SO DUKE ENERGY CAN INSTALL POWER LINES TO SERVICE.

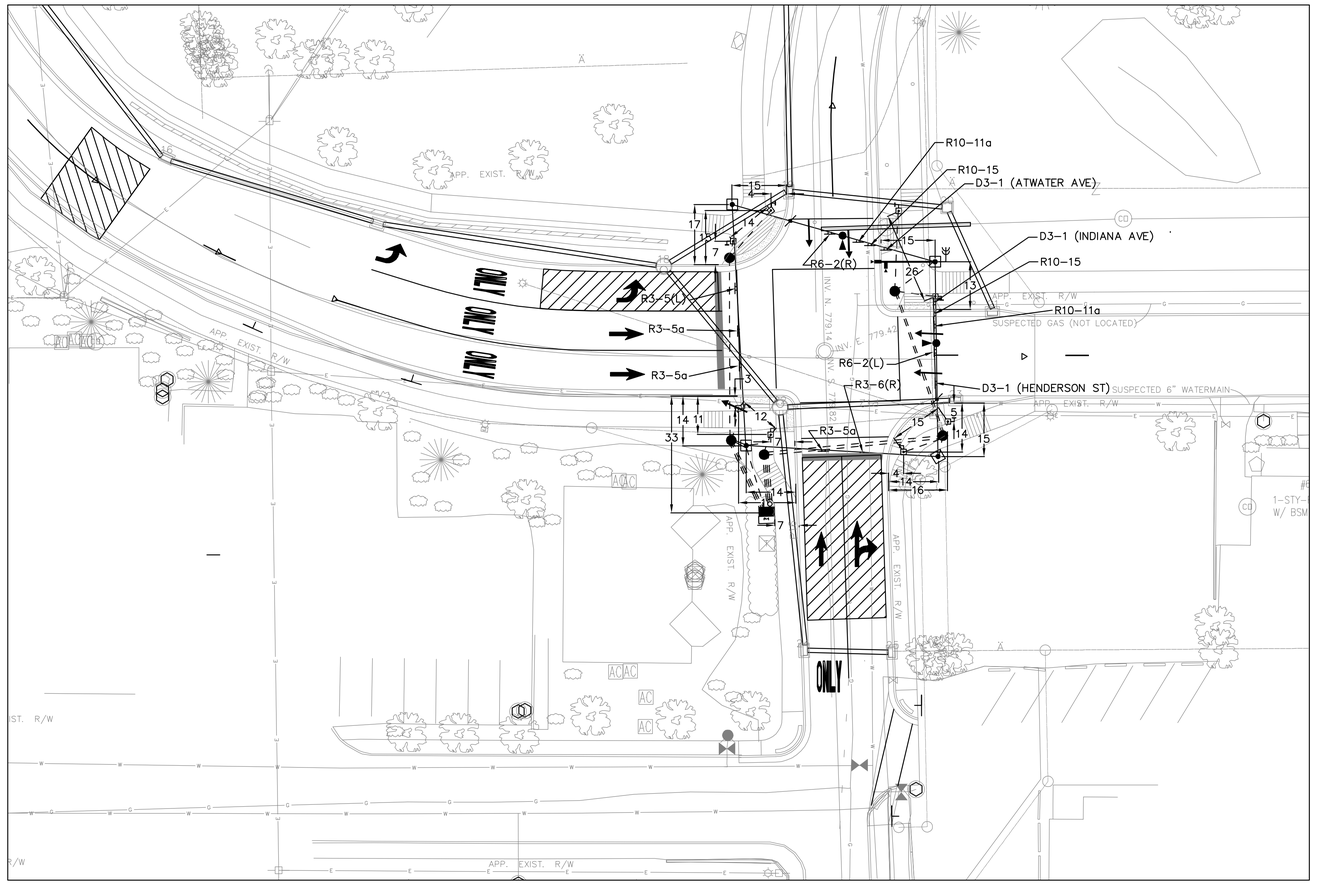
SIGNS

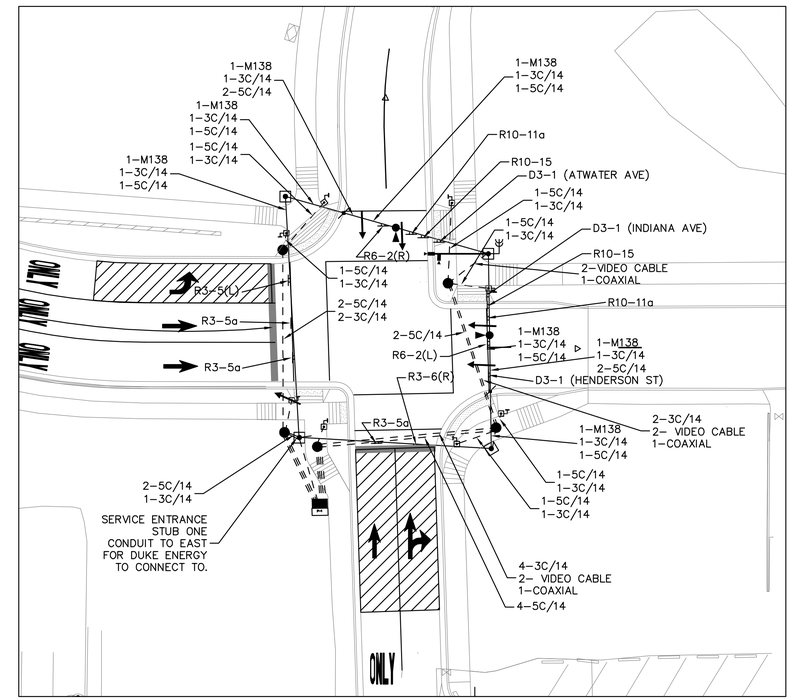
R3-5a	THROUGH ONLY
R3-5(L)	LEFT ONLY
R3-6(R)	THROUGH AND RIGHT
R6-2 (L)	ONE WAY (LEFT)
R6-2 (R)	ONE WAY (RIGHT)
R10-11a	NO TURN ON RED
R10-15	TURNING TRAFFIC MUST YIELD TO PEDESTRIANS
D3-1	STREET NAME SIGN

PHASE DIAGRAM

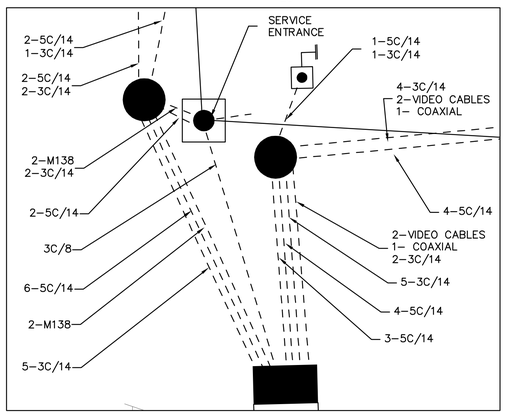


ALL PHASES FLASH RED





INTERSECTION WIRING AND OVERHEAD SIGNAGE DETAIL
1" = 20'



SOUTHWEST CORNER WIRING DETAIL
1" = 5'

LEGEND

- VIDEO DETECTION ZONE
- VIDEO VEHICLE DETECTION CAMERA
- HAND HOLE
- 50 mm GALVANIZED STEEL CONDUIT
- OVERHEAD MOUNTED SHEET SIGN
- DISCONNECT HANGER, BLACK FINISH
- 9 DB YAGI RADIO ANTENNA
- EMERGENCY VEHICLE DETECTION AND LIGHT
- SIGNAL INDICATION, 3 SECTION, 12 INCH RED LED, 12 INCH YELLOW LED, 12 INCH GREEN LED, BLACK FINISH
- PEDESTRIAN COUNT DOWN LED INDICATION, BLACK FINISH, AND PUSH BUTTON WITH SIGN
- 30 FOOT STRAIN POLE WITH DECORATIVE BASE, BLACK FINISH, AND FOUNDATION
- 30 FOOT STRAIN POLE WITH DECORATIVE BASE WITH 15 FOOT MAST ARM, BLACK FINISH, AND FOUNDATION
- PEDESTAL POLE WITH DECORATIVE SKIRT, BLACK FINISH, AND FOUNDATION
- CONTROLLER AND P-1 CABINET, BLACK FINISH, MENU DRIVEN, 8 PHASE WITH RACK MOUNTED RADIO KIT AND UNINTERRUPTED POWER SUPPLY ON P-1 FOUNDATION

BRADLEY W. YAGER REGISTERED No. 8802967 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Bradley William Yager 12-30-09
DESIGN ENGINEER DATE

DESIGNED: BWY DRAWN: ELF
CHECKED: BWY CHECKED: BWY

INDIANA
DEPARTMENT OF TRANSPORTATION

ATWATER AVENUE AT
HENDERSON STREET AND INDIANA AVENUE
SIGNAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	0800443
SURVEY BOOK	SHEETS
	18 of 36
CONTRACT	PROJECT
R-31762	0800443

MISCELLANEOUS QUANTITIES SUMMARY TABLE

LOCATION					SIDEWALKS AND RAMPS							CURB LENGTHS										NEW TREES		EST. REMOVAL ITEMS, FOR INFO ONLY, PAID AS CLEARING											
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	WIDTH OF SIDEWALK	SIDEWALK AREA	RAMP Type (1)	RAMP AREA (1)	RAMP Type (2)	RAMP AREA (2)	COMPACTED AGG. BASE UNDER WALKS & RAMPS	STANDING CURB	24" CURB & GUTTER	24" REVERSE-SLOPED CURB & GUTTER	ADJUST CASTING TO GRADE (SANITARY MANHOLE)	VALVE COVER, ADJUST TO GRADE	WATER METER, ADJUST TO GRADE	NURSERY SODDING FOR LAWNS	MULCHING MATERIAL	TOPSOIL (IN LINEAR GRADING)	EXISTING TREE PROTECTION	TREE TYPE (SEE LEGEND)	TREE COUNT	TREE REMOVAL, 6"	TREE REMOVAL, 12"	TREE REMOVAL, 18"	TREE REMOVAL, 24"	PIPE REMOVAL	INLET & MANHOLE, REMOVE	SIDEWALK, REMOVE	CURB, REMOVE	CURB & GUTTER, REMOVE			
					LFT	SYS	TYPE	SYS	TYPE	SYS	TON	LFT	LFT	LFT	EACH	EACH	EACH	SYS	CYS	CYS	EACH	TYPE	EACH	EACH	EACH	EACH	EACH	LFT	EACH	SYS	LFT	LFT			
LINE A																																			
10+13	11+00			X	5	28	-		-		5.2	-	94	-				121	-	23	3	T3, T5	2					50	1	32	32	56			
11+00	12+00			X	5	34	-		-		6.3	-	100					145	-	39	1	T3, T5	2							24	59				
12+00	13+00			X	5	6	H	4.2	G	4.3	2.7	-	14					23	-					2						31	100				
13+00	14+00			X	5	18	-		-		3.3	-	25	75				33	-		2	T3, T4	2							18	100				
14+00	15+00			X	-	-	-	-	-	-	-	-		100				33	-												100				
15+00	16+00			X	-	-	-	-	-	-	-	-	75	25				33	-												100				
16+00	17+03			X	6 to 4	25	C	3.8	E	18.0	8.7	-	78					26	-											37	83				
11+72	12+00	X			-	-	-	-	-	-	-	-	28					12	-	3											28				
12+00	13+00	X			-	-	-	-	-	-	-	-	100					125	-	43		T5	1								100				
13+00	14+00	X			-	-	-	-	-	-	-	-	100					127	-	42		T1, T3	2								100				
14+00	15+00	X			-	-	-	-	-	-	-	-	100					125	-	41				3	1						100				
15+00	16+00	X			5	37	-		-		6.9	-	100					174	-	69		T3,4,5	3		1					69	236				
16+00	17+03	X			5, 6	32	E	10.3	C	4.0	8.6	-	77		1			83	-			T3, T5	2		1					46	75				
LINE H																																			
48+45	49+00			X			H	5.2	-		1.0	-	9			2	1	16	-											4	13				
49+00	50+00			X	6	42	H	3.9	-		8.5	-	84					64	-		3	T2	1				2			41	81				
50+00	51+00			X	6	44	C	5.4	-		9.2	-		83				84	-			T1, T3	2							43	85				
51+00	52+00			X	6 to 5	5	-		-		0.9	-							-			T2,3,5	3							6	12				
52+00	52+95			X	-	-	-	-	-	-	-	-							-																
48+86	49+00	X			4	3	F	9.7	-		2.4	-	26					6	-											10	25				
49+00	50+00	X			6	51	D	3.3	-		10.1	-	93					27	-											38	87				
50+00	51+00	X			6	38	-		-		7.1	-	76					120	-	45		T2	1							64	143				
51+00	52+00	X			6	33	G	4.5	-		7.0	-	90		1			111	-	22	1	T4	1							50	57				
52+00	52+95	X			6 to 5	18	G	4.5	-		4.2	-	83					87	-	26	4	T5	1							21	90				
HENDERSON STUB																																			
West Side		X			5	18	-		-		3.3	30	17					20	-	22										25	38				
East Side				X	4	35	-		-		6.5	-		96				67	-	3											87				
LINE D-1																																			
70+50	71+29			X	-	-	-	-	-	-	-	-	121					112	-		3			1							50				
70+75	72+00	X			5	39	-		-		7.2	-	114					196	-		3			2							50				
Dunn Street Stub					-	-	-	-	-	-	-	155						237	-	72		T1,2,3	3							154	222				
TOTALS						506					109	185	1604	379	2	2	1	2207	0	450	20		26	8	3	0	2	50	1	713	2253	56	0	0	0
PAY UNIT						SYS					TON	LFT	LFT	LFT	EACH	EACH	EACH	SYS	CYS	CYS	EACH		EACH	EACH	EACH	EACH	EACH	LFT	EACH	SYS	LFT	LFT			

RAMP SUMMARY:

Type	Area
C	13.2
D	3.3
E	29.3
F	9.7
G	13.3
H	13.3

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BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 10/30/09 DATE

DESIGNED: BR DRAWN: SI

CHECKED: JAW (DPW) CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS SUMMARY OF QUANTITIES

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0800443
SURVEY BOOK	SHEETS
N/A	19 of 36
CONTRACT	PROJECT
R-31762	0800443

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION		DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADES FROM EDGE OF PAVEMENT (ALL HAVE 1.5" LIP AT EDGE OF DRIVE)				HMA FOR APPROACHES			HMA WIDENING	FULL DEPTH PAVING			HMA TOP LAYERS		MILLING, 1.5"	PCCP FOR APPROACHES		FLOWABLE FILL (Undistributed) (Class A Concrete - Road Patching)	TACK COAT	COMPACTED AGGREGATE FOR BASE NO. 53			REMARKS
							COMPACTED AGGREGATE BASE	HMA	CONCRETE					SURFACE, Type B	INTERMEDIATE, Type B	BASE, Type B	HMA, TYPE B, BASE (in 2 Lifts)	HMA, BASE TYPE B (in 2 Lifts)	HMA, BASE, TYPE B	SUBGRADE TREATMENT "IV" incl. 9" Comp. Agg on Geogrid Type I	HMA, INTERMEDIATE, TYPE B	HMA, SURFACE, TYPE B		UNCOLORED, CLASS I DRIVE	UNCOLORED, CLASS III DRIVE			DEPTH			
														1.5"	2.5"	4"	7"	7"	4"												
STATION RANGES										1	2	3	4	165#	275#	440#	770#	770#	440#		275#	165#		6"	9"	12"		4"	6"	8"	
FROM	TO		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	CYS	SYS	SYS	SYS	SYS	
DRIVES AND APPROACHES																															
LINE H																															
48+88 R	Apartment Drive	Mod. Class III Drive	Varies	46	10/10	32		200		+2	+12			215	215										28		215		28	215	
51+97 L	Henderson Stub	Mod. Public Road Appr.	22	48	15/15	N/A				-1				117	117	40				40			77				194				
51+97L, 34'o/s	Legg House	Mod Class III Drive	20	23	10/5	0				+2	-2														75				75		
MAINLINE PAVEMENTS																															
LINE A																															
10+66	11+72	Resurfacing	23.5	106																	277	277	277			4	554				
11+72	14+13	Resurfacing	22	241																	590	590	590			9	1180				
14+13	15+13	Resurfacing	22 to 33	100																	306	306	306			4	612				
15+13	16+59	Turn Lane/Resurfacing	33	146														102		102	535	535	433			5	968				
16+59	17+03	Resurfacing	22	44																	108	108	108			2	216				
LINE H																															
48+87	49+89	Widening/Resurfacing	22	102													54			54	249	249	195			4	444				
50+22	51+10	Widening/Resurfacing	22	88													40			40	215	215	175			3	390				
51+10	52+40	Resurfacing	23.5	130																	340	340	340			5	680				
52+40	52+95	Resurfacing	23.5 to 34	55																	176	176	176			2	352				
LINE D-1																															
70+00	72+00	New Pavement	15	200															196	196	196	196					196				
DUNN STREET STUB				158																						6					
												SUBTOTALS:		332	332	40	94	102	196	432	2992	2992	2677		103	43	6001		103	215	
														SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS		SYS	CYS	SYS		SYS	SYS	
														27	46	9	36	39	43		411	247							29	81	
														TONS	TONS	TONS	TONS	TONS	TONS		TONS	TONS							TONS	TONS	
										PAY QUANTITIES:						**82**	**36**		**82**	**432**	**411**	**247**	**2677**		**103**	**43**	**6001**			**110**	
										PAY UNITS						**TONS**	**TONS**		**TONS**	**SYS**	**TONS**	**TONS**	**SYS**		**SYS**	**CYS**	**SYS**			**TONS**	

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

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INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT QUANTITIES AND APPROACH TABLE

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0800443
SURVEY BOOK	SHEETS
N/A	20 of 36
CONTRACT	PROJECT
R-31762	0800443

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STORM SEWERS - STRUCTURE NUMBER

	12	13	14A	14B	15	16	17	18	19	20	21	22	23	24	25	26
PIPE TYPE / SHAPE	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR
SMOOTH PIPE SIZE	18	18	18	18	15	12	12	12	12	12	12	12	12	12	12	12
CORRUGATED PIPE SIZE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RCP/RCHEP (S) CLASS		II	II	II	II	II	II	II	II			II		II		II
RCP/RCHEP (S) $D_{0.01}$ RATING		1000	1000	1000.00	1000	1000	1000	1000.00	1000.00			1000		1000		1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK	OK	OK	OK	OK	OK	OK			OK		OK		OK
CORRUGATED PE PIPE, TYPE S (S)*		OK		OK	OK	OK	OK	OK				OK		OK		
RIBBED PE PIPE (S)*		OK		OK												
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK / 26		OK / 26	OK / 26	OK / 26	OK / 26	OK / 26				OK / 26		OK / 26		
PROFILE WALL PVC PIPE (S)		OK		OK	OK	OK	OK	OK				OK		OK		
SMOOTH WALL PVC PIPE (S)*		OK		OK	OK	OK	OK	OK				OK		OK		
PVC - WATER GRADE - AWWA C900 (8"-12")																
PVC - WATER GRADE - AWWA C905 (14"-24")																
SMOOTH WALL HIGH DENSITY POLYETHYLENE - ASTM D3350	REQD**															
DUCTILE IRON PIPE - AWWA C151 w/ PROTECTO 401 LINING, C										REQ'D*	REQ'D*		REQ'D*		REQ'D*	

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION STATION	LOCATION LEFT	LOCATION RIGHT	LOCATION CROSS	SIZE	PIPE TYPE	MANHOLE, CATCH BASIN, INLET, OR SPECIALTY STRUCTURE	LENGTH	SLOPE	COVER	FLOWLINE UP STREAM	FLOWLINE DOWN STREAM	APPROX. CASTING EL.	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL	FLOWABLE BACKFILL	HMA FOR PATCHING, TYPE B	CONCRETE, CLASS A	CLASS 2 RIPRAP	GEOTEXTILE	PIPE END SECTION	CONNECT TO STR.	REMARKS
					IN			FT	%	FT	ELEV.	ELEV.	ELEV.	YRS				CYS	CYS	TON	CYS	TON	SYS	EACH		
LINE 'A'																										
11	10+59		X			NA	Existing Inlet						NA				1	2.0			0.5				NA	Remove Existing Inlet, Bulkhead existing pipe where not removed
12	10+60		X		18	2	MANHOLE C-10	55	2.2	2.3	767.00	765.8+/-	771.8	75	NON	7.9	1	23.8	4.0		0.5				Existing Str	Place Structure on Existing Pipe from East, Pipe to Manhole by City
13	11+98		X		18	2	INLET J-10	133	1.5	2.4	769.09	767.10	773.9	75	NON	7.9	1		63.4						12	
14A	12+00			X	18	2	INLET J-10	23	0.5	1.9	769.30	769.19	774.2	75	NON	7.9	1		9.2						13	
14B	12+22	X			18	2	INLET E-7	20	0.5	2.8	769.50	769.40	773.5	75	NON	7.9	1	10.8							14A	
15	13+40	X			15	2	INLET J-10	112	1.3	2.8	771.00	769.70	775.1	75	NON	7.9	1	53.1							14B	
16	14+43	X			12	2	INLET J-10	90	2.0	2.0	772.94	771.10	776.8	75	NON	7.9	1	28.7							15	
17	15+10	X			12	2	INLET J-10	60	2.0	3.0	774.25	773.04	778.6	75	NON	7.9	1	26.8							16	
18	15+99	X			12	2	MANHOLE C-10	77	1.8	5.3	775.70	774.35	782.3	75	NON	7.9	1	58.7							17	
19	16+35	X			12	2	INLET J-10	38	4.0	1.5	779.56	778.04	783.5	75	NON	7.9	1	9.8							18	
20	16+78			X	12	2	INLET E-7	41	1.0	0.6	781.70	781.30	784.0	75	NON	7.9	1		5.5						19	High Strength Water-Grade Pipe Required
21	16+91	X			12	2	INLET J-10	29	0.7	1.3	782.00	781.80	785.8	75	NON	7.9	1	6.7							20	High Strength Water-Grade Pipe Required
22	16+31			X	12	2	MANHOLE C-4	47	0.5	5.2	776.00	775.80	783.2	75	NON	7.9	1		30.2						18	
23	16+81		X		12	2	INLET J-10	45	2.0	4.5	778.00	777.10	785.7	75	NON	7.9	1		27.9						C-4	High Strength Water-Grade Pipe Required
LINE 'H'																										
24	49+18	X			12	2	INLET J-10	65	0.5	5.2	776.55	776.21	783.0	75	NON	7.9	1		47.8						C-4	
25	49+17			X	12	2	INLET J-10	20	0.5	4.8	776.80	776.70	782.55	75	NON	7.9	1		13.0						24	High Strength Water-Grade Pipe Required
26	51+70	X			12	2	INLET J-10	168	0.7	1.6	780.70	779.91	783.4	75	NON	7.9	1		41.0						19	
																		CYS	CYS	TON	CYS	TON	SYS	EACH		
																	TOTALS:	220	242	0	1.0	0	0	0		

NOTES:
* - WATER GRADE PIPE AS NOTED IS REQUIRED DUE TO PROXIMITY TO WATER MAIN
** - HDPE REQUIRED BECAUSE CITY INSTALLED MANHOLE HAS HOLE PRECAST FOR HDPE PIPE.

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 10/30/09 DATE

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INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA AND PIPE MATERIALS SHEET

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0800443
SURVEY BOOK	SHEETS
N/A	21 of 36
CONTRACT	PROJECT
R-31762	0800443

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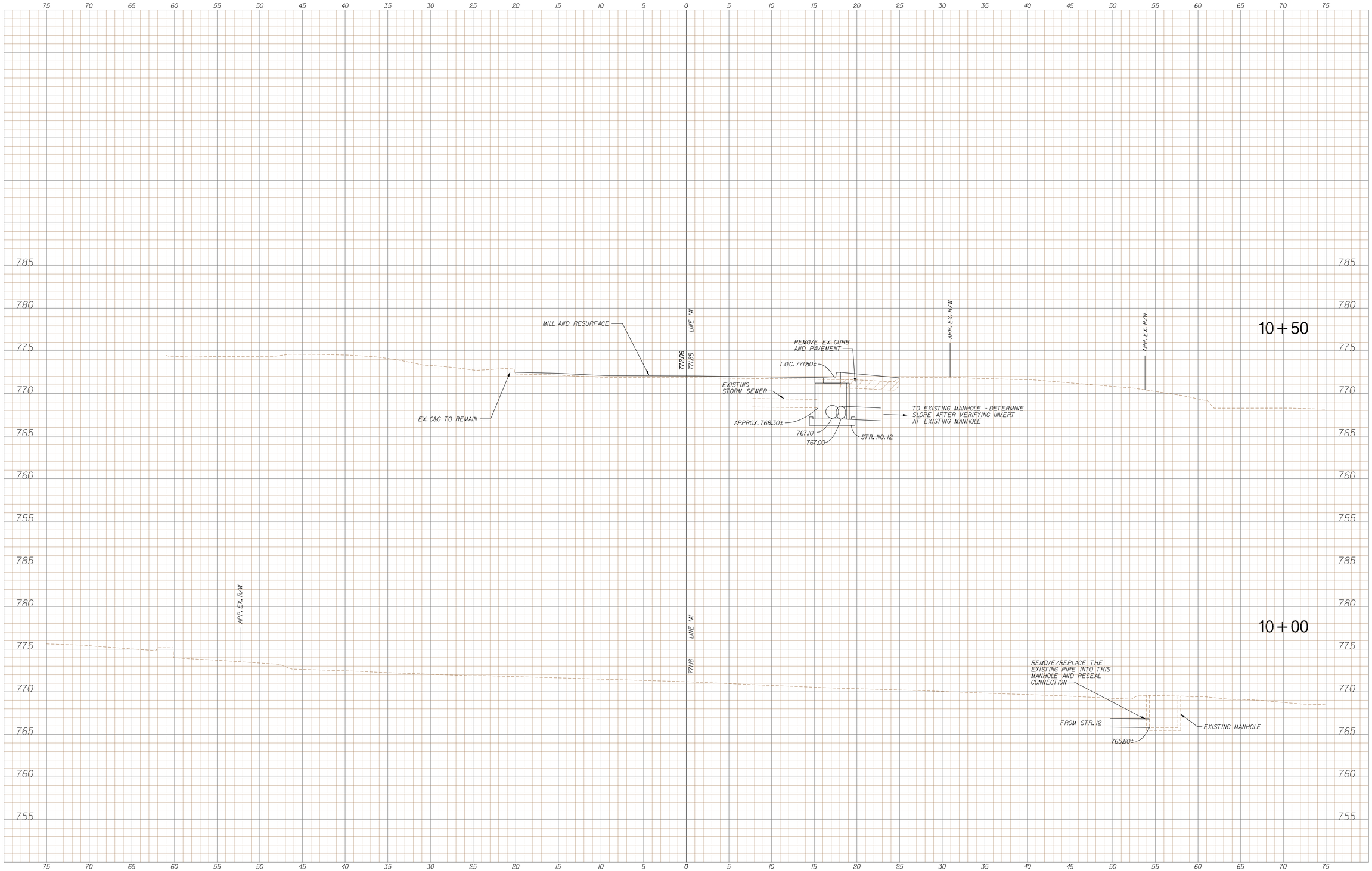

STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 10/30/09 DATE

DESIGNED: BR | DRAWN: SI

CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	22 of 36
CONTRACT	PROJECT
R-31762	0800443

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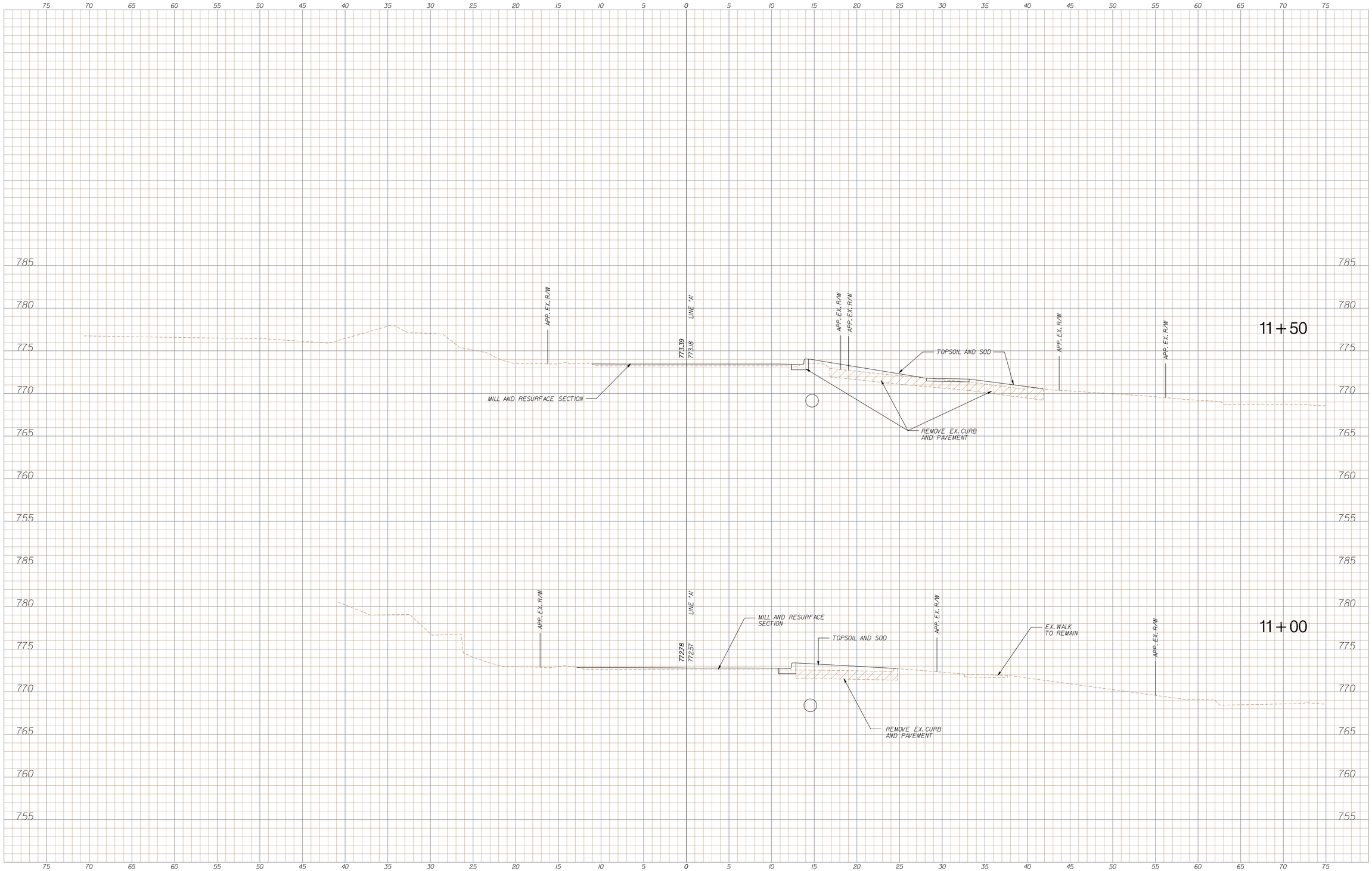

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	23 of 36
CONTRACT	PROJECT
R-31762	0800443

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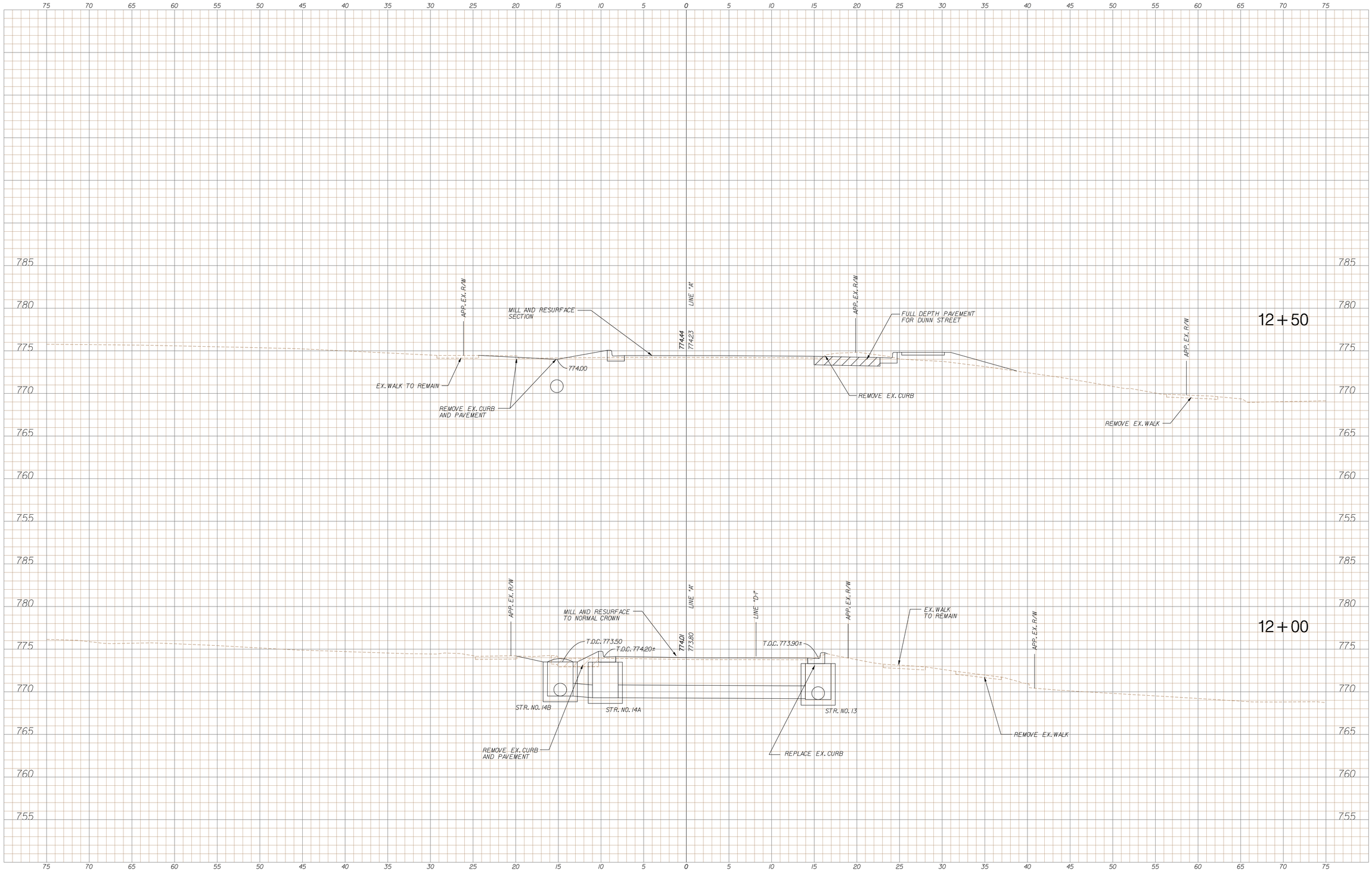

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	24 of 36
CONTRACT	PROJECT
R-31762	0800443

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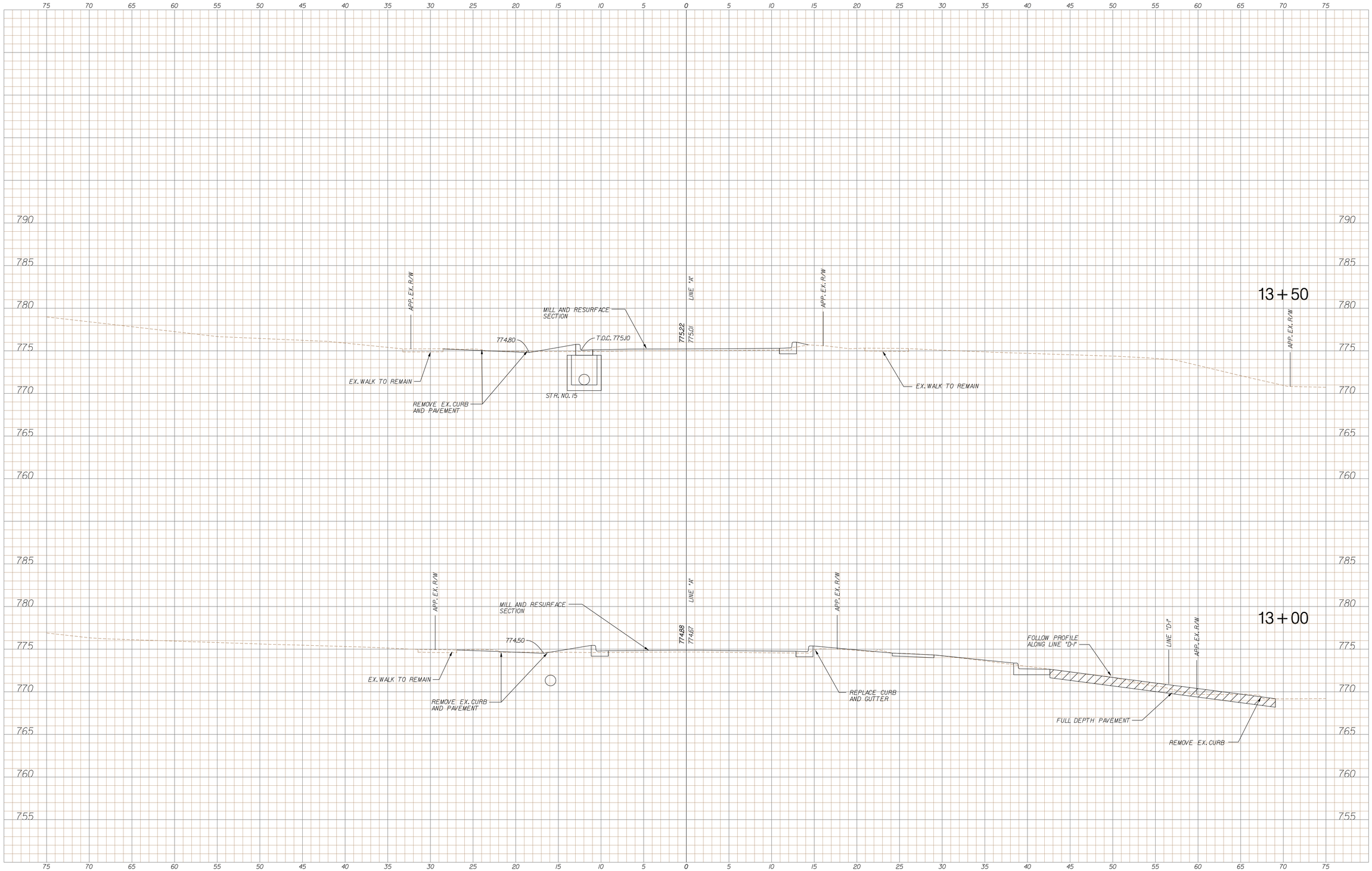

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	25 of 36
CONTRACT	PROJECT
R-31762	0800443

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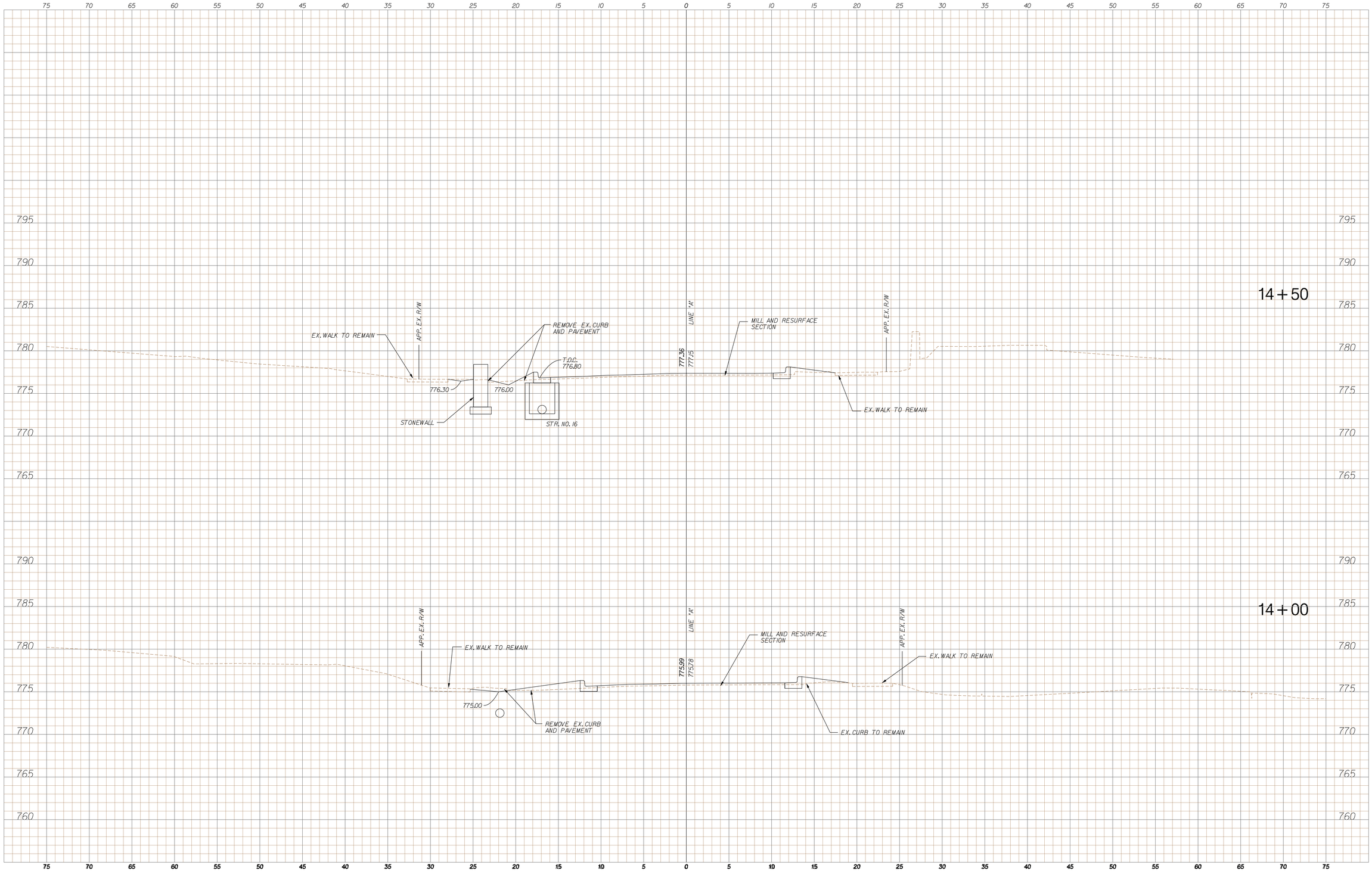

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	26 of 36
CONTRACT	PROJECT
R-31762	0800443

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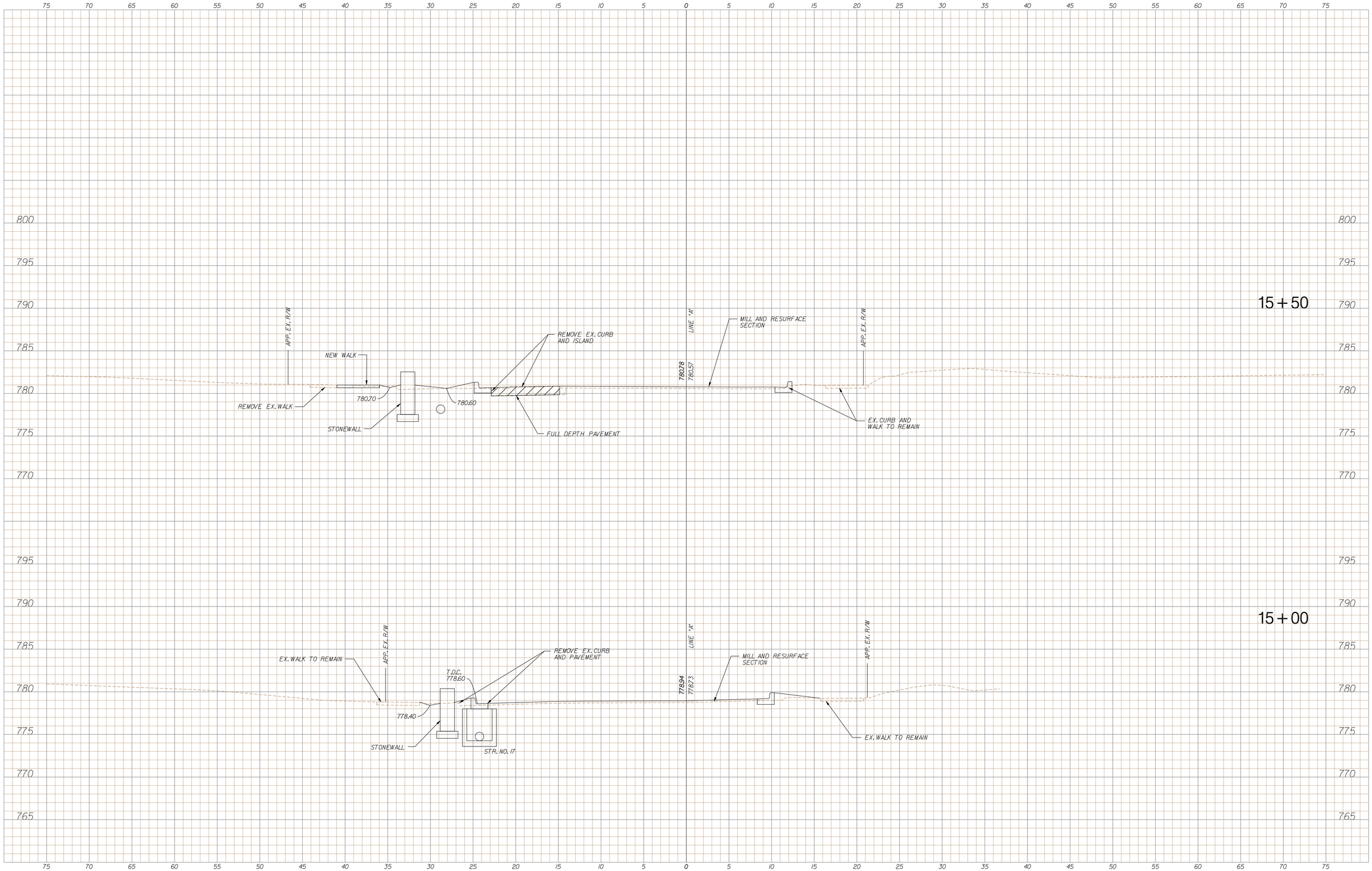

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	27 of 36
CONTRACT	PROJECT
R-31762	0800443

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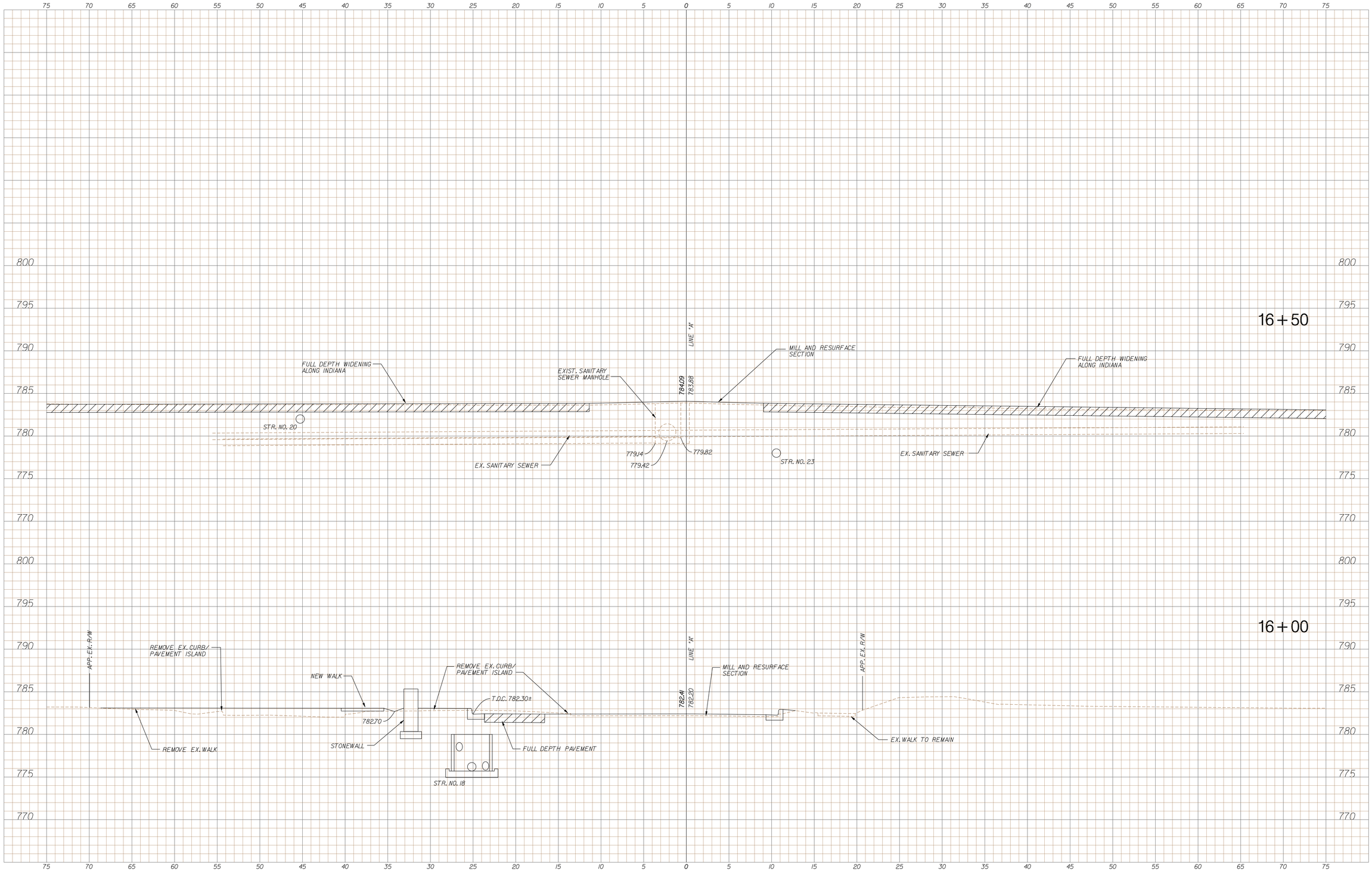

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DESIGNED: BR | DRAWN: SI

CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	28 of 36
CONTRACT	PROJECT
R-31762	0800443

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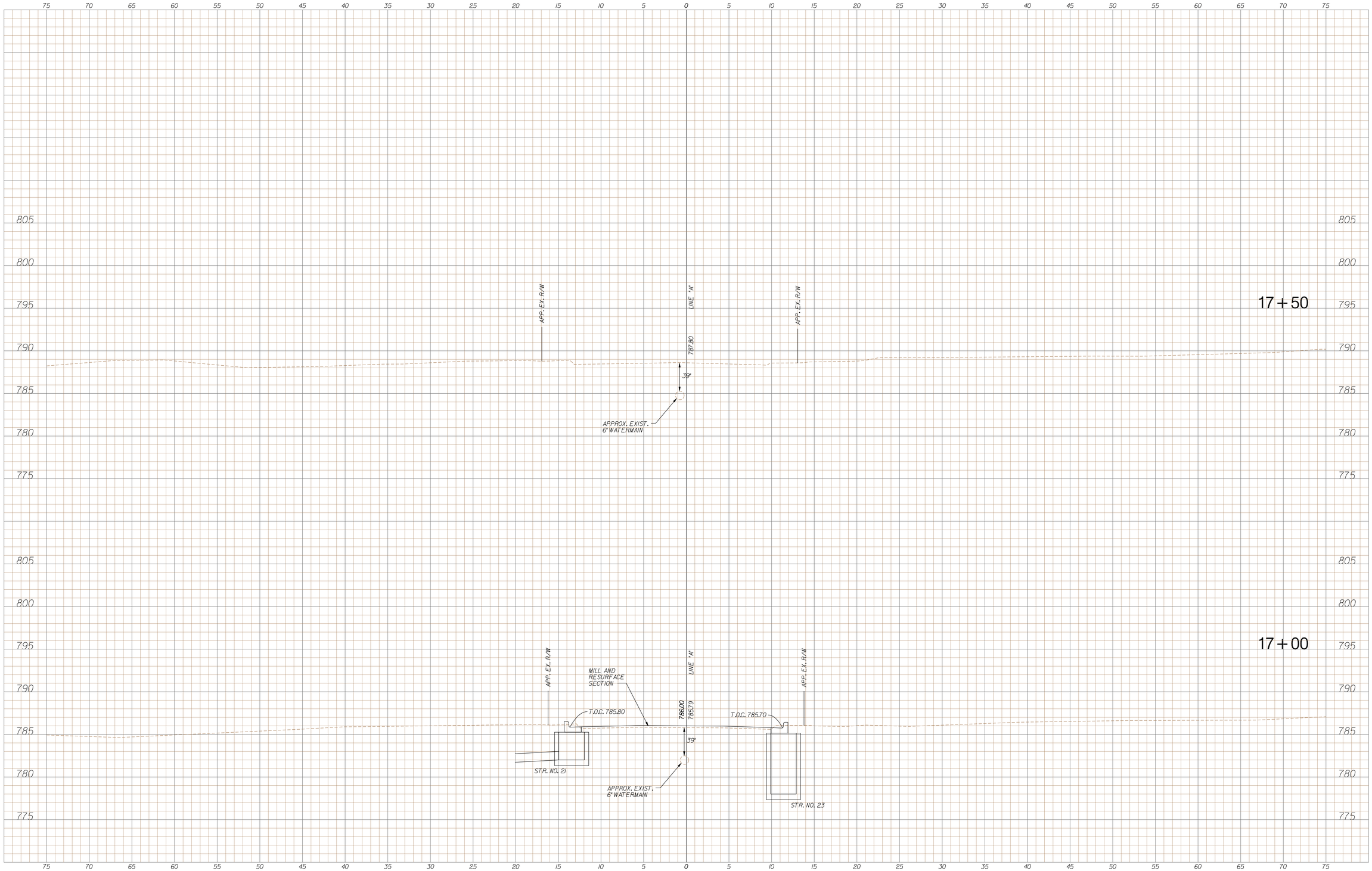

STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 10/30/09

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CHECKED: JAW (DPW) | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "A"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	29 of 36
CONTRACT	PROJECT
R-31762	0800443

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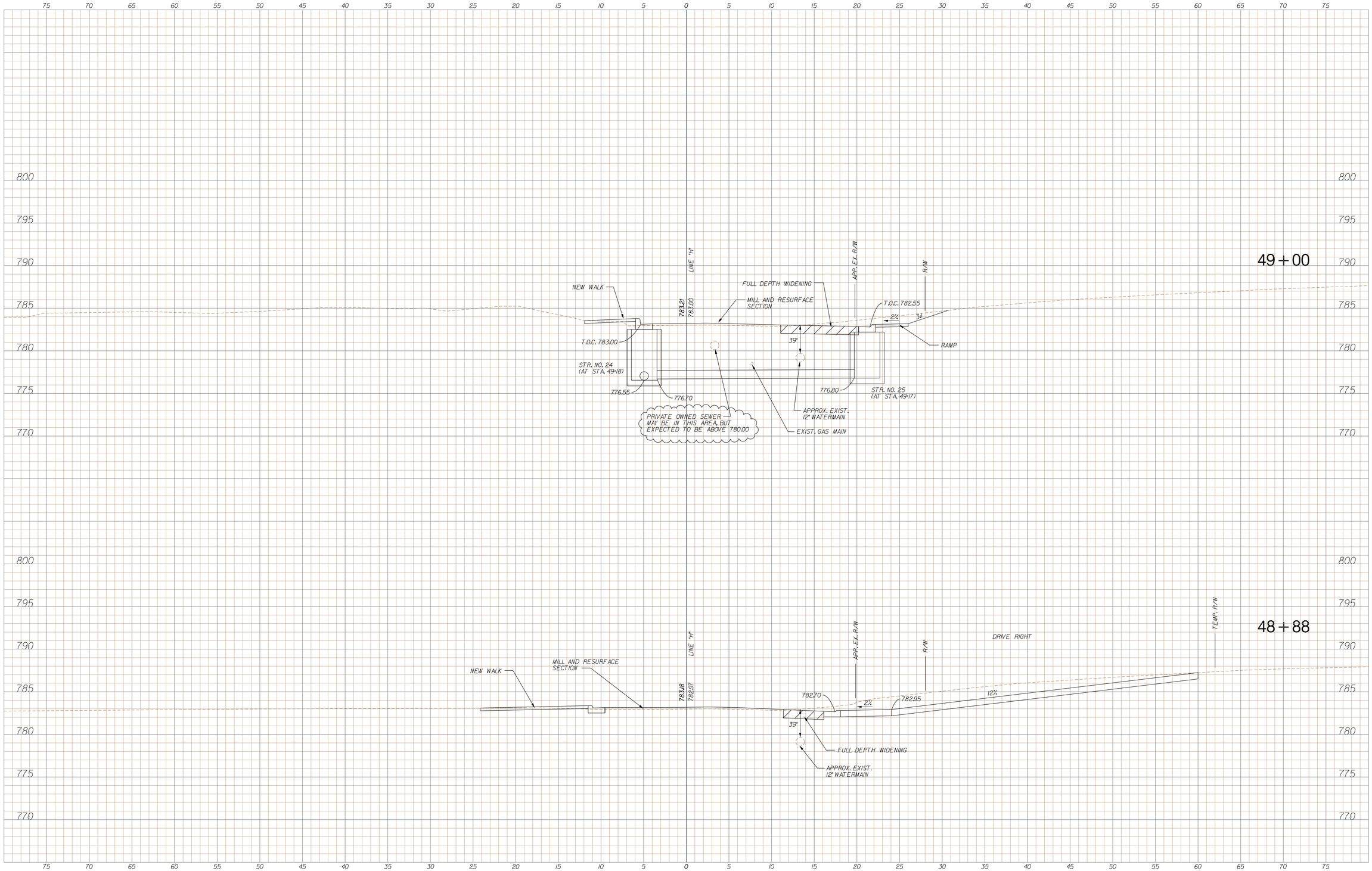

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "H"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	30 of 36
CONTRACT	PROJECT
R-31762	0800443

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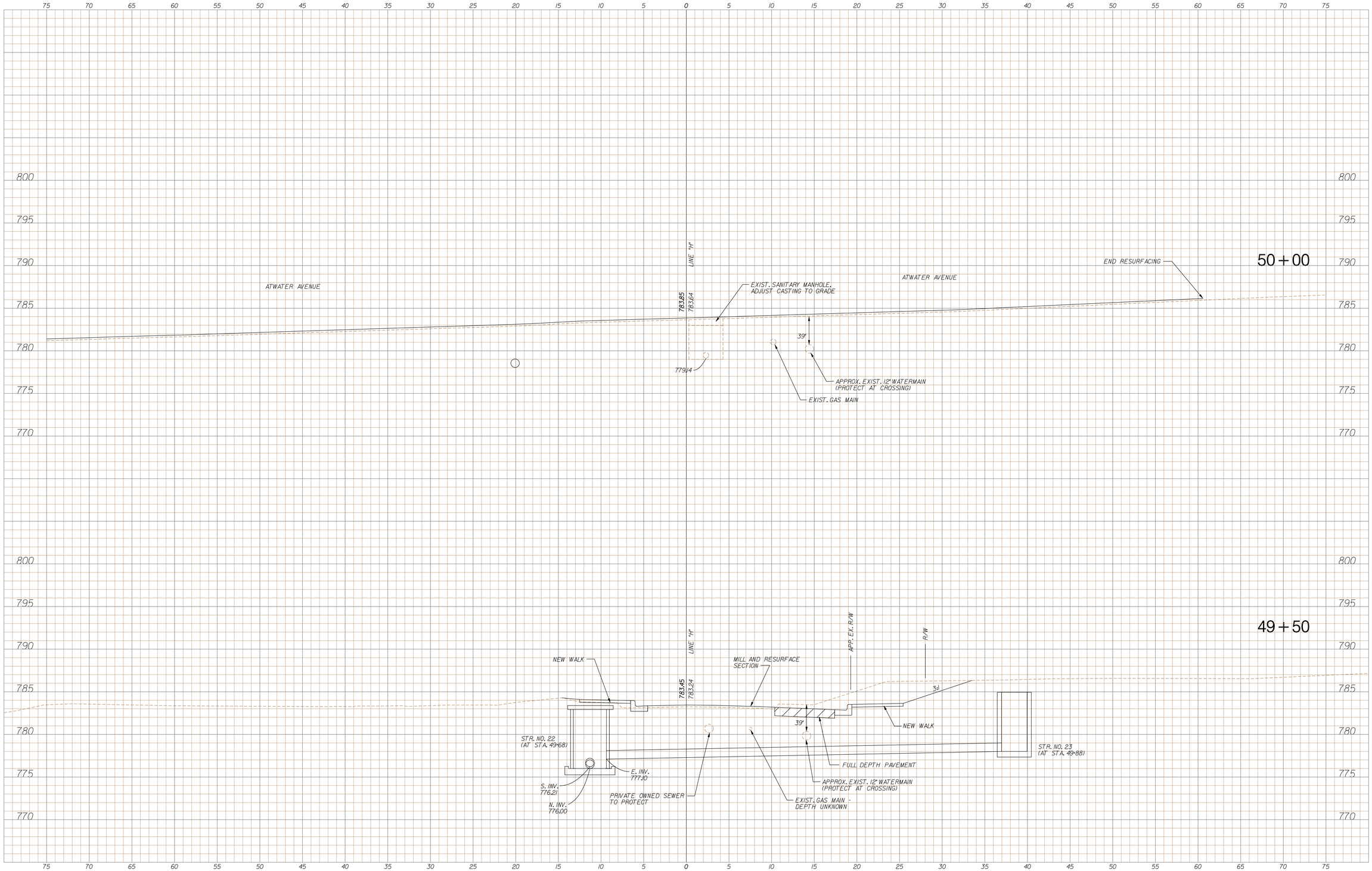

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "H"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	31 of 36
CONTRACT	PROJECT
R-31762	0800443

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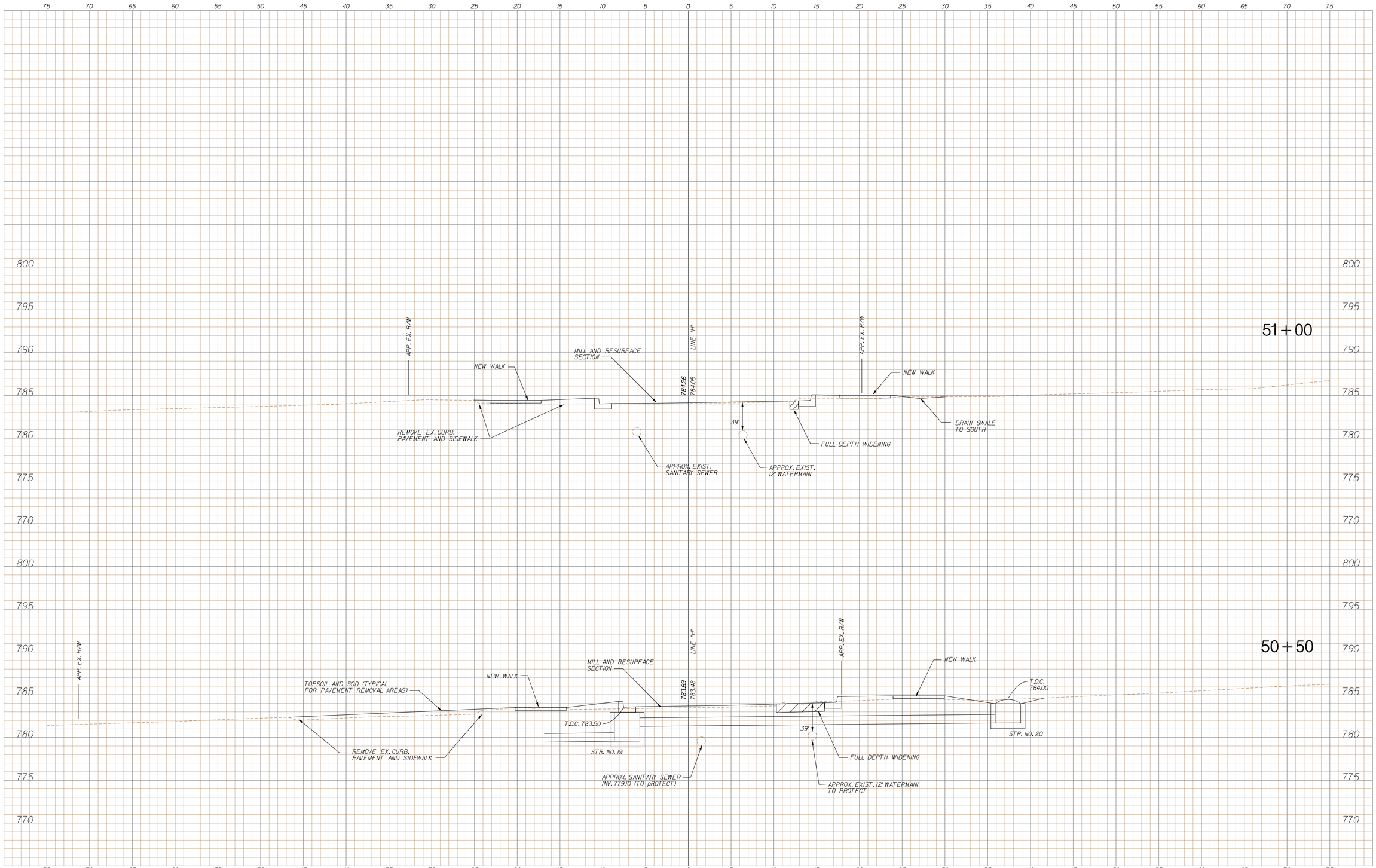

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "H"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	32 of 36
CONTRACT	PROJECT
R-31762	0800443

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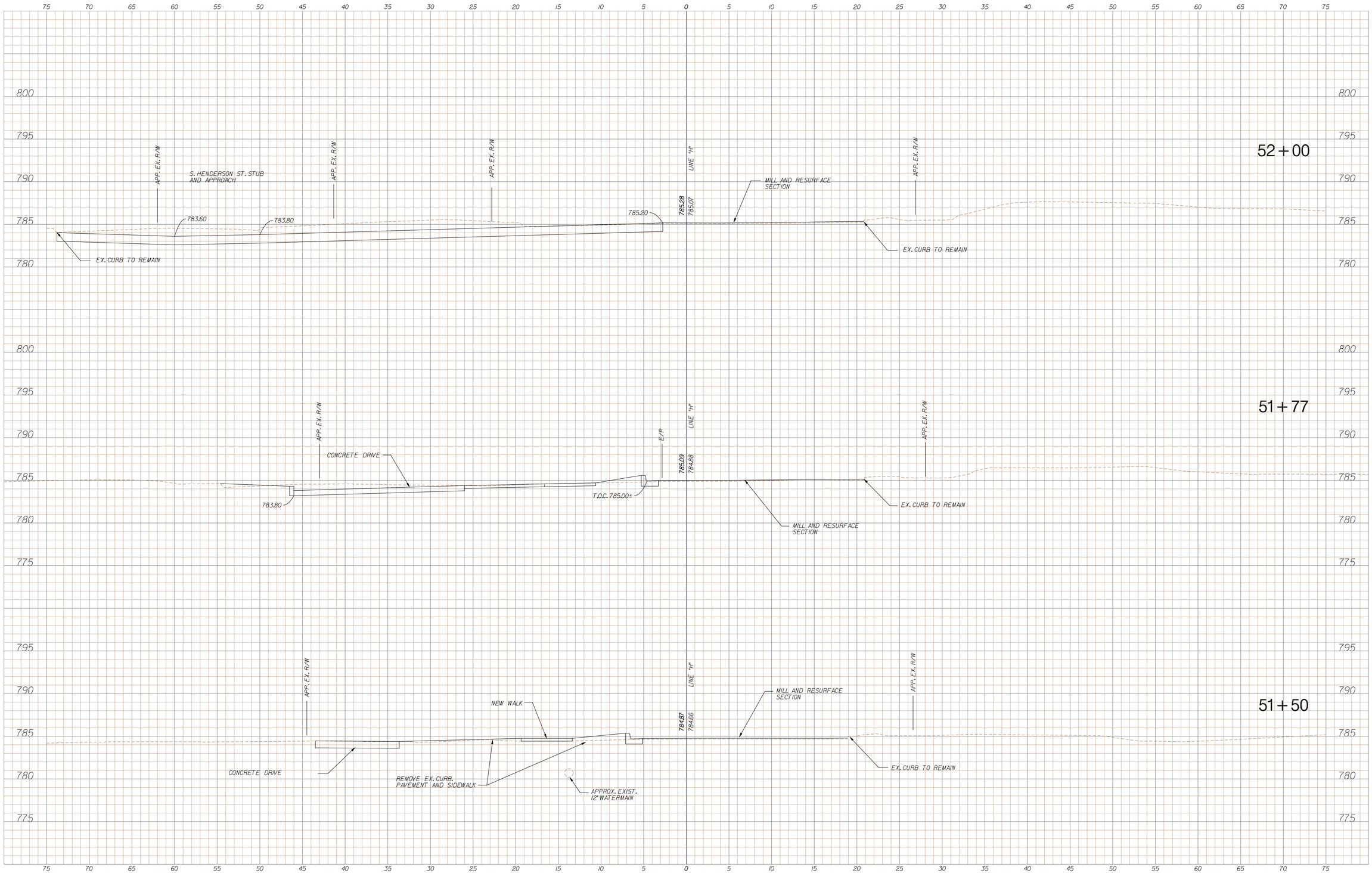

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "H"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	33 of 36
CONTRACT	PROJECT
R-31762	0800443

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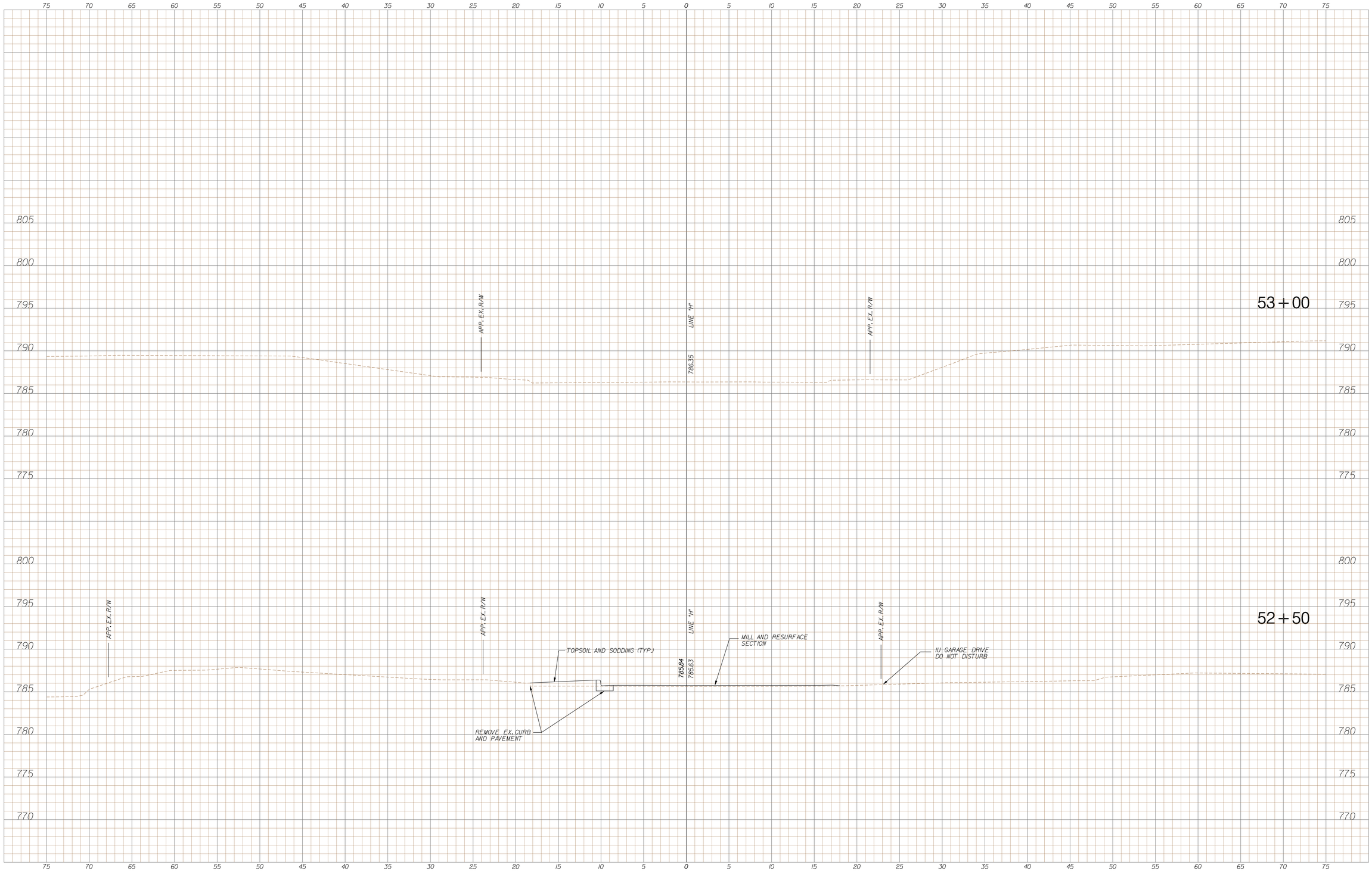

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "H"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	34 of 36
CONTRACT	PROJECT
R-31762	0800443

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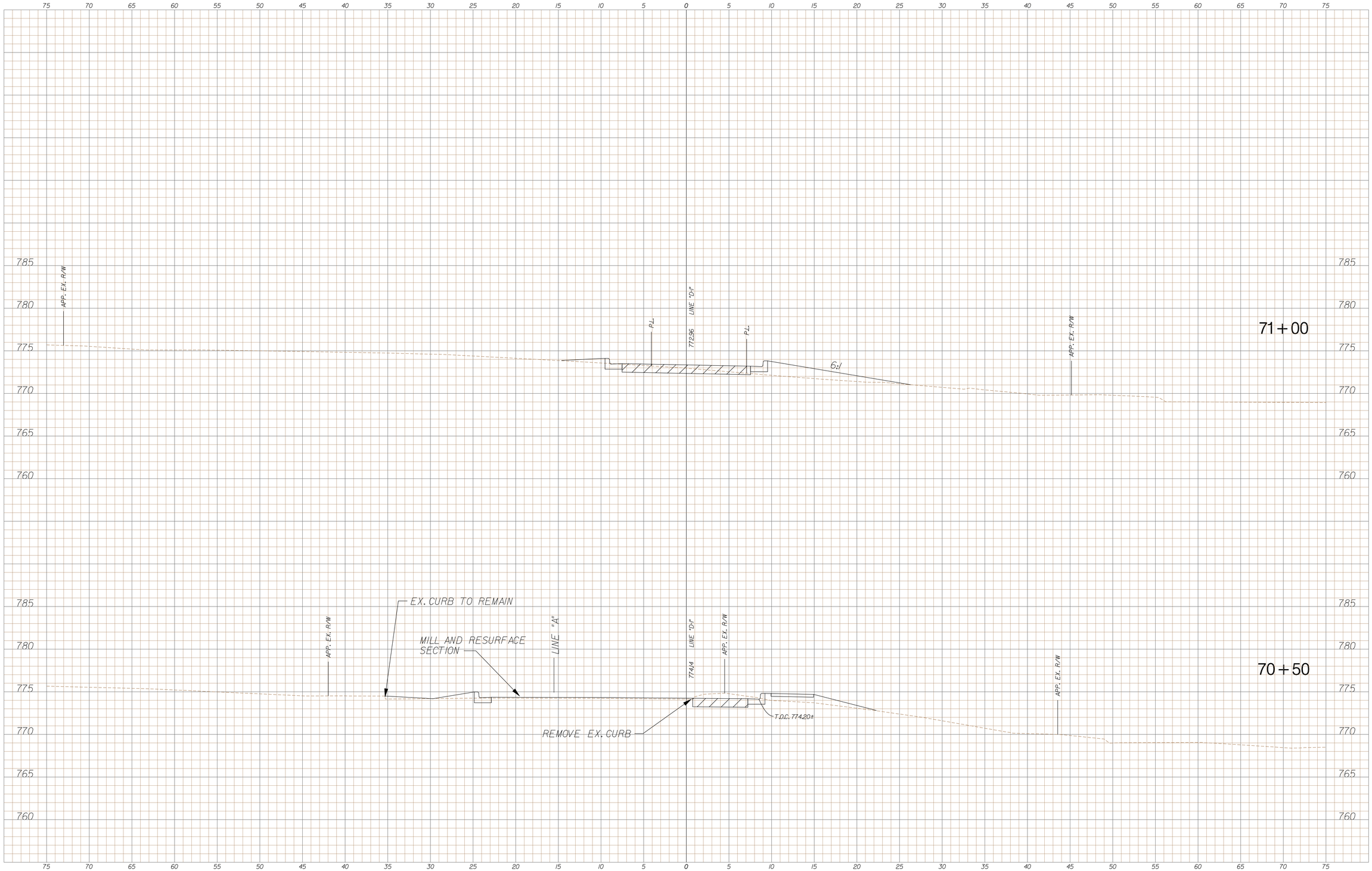

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INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "D-1"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	35 of 36
CONTRACT	PROJECT
R-31762	0800443

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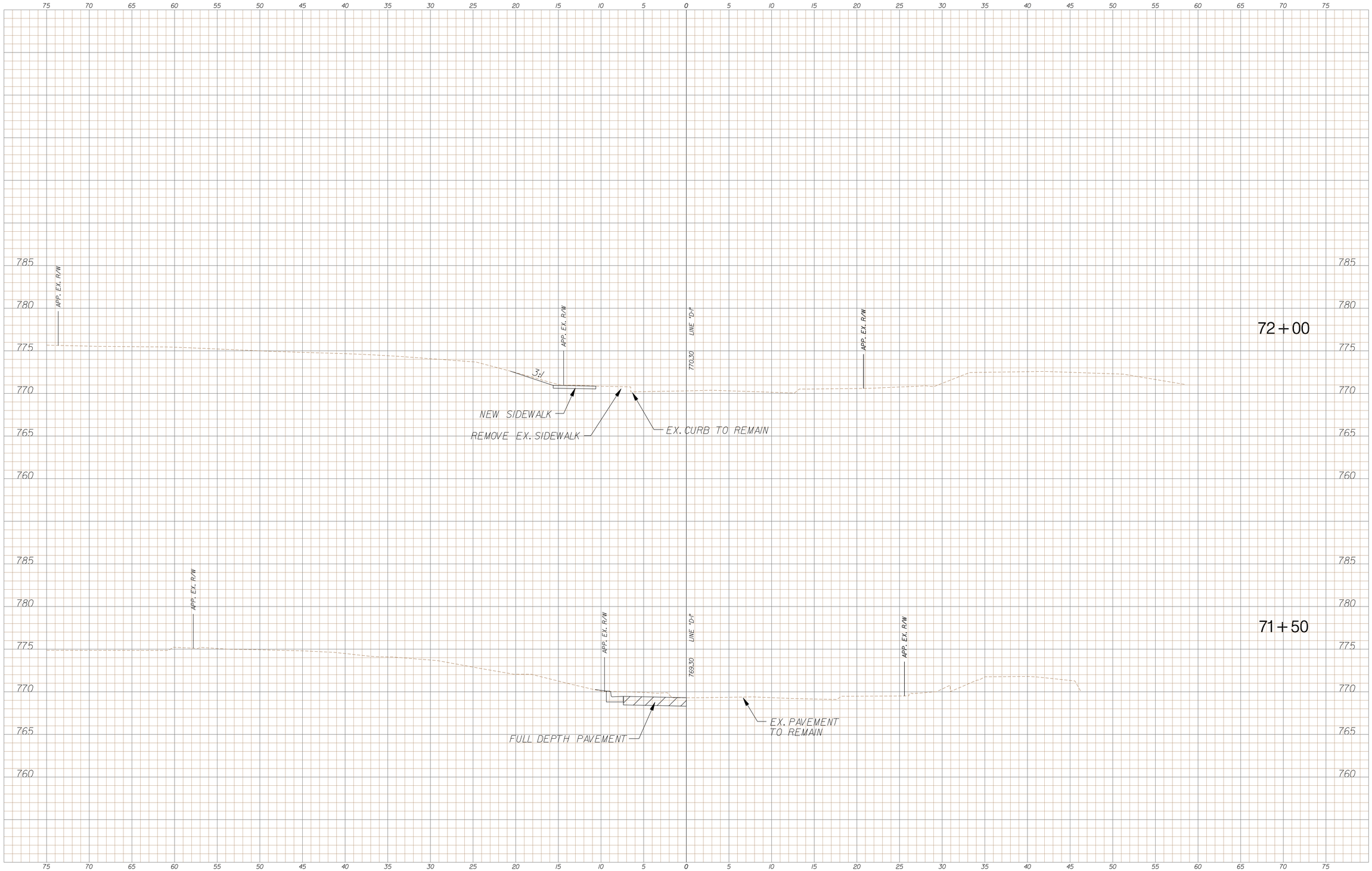

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CROSS SECTIONS - LINE "D-1"

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0800443
SURVEY BOOK	SHEETS
	36 of 36
CONTRACT	PROJECT
R-31762	0800443

XS_SHEET_temporary_model_name_3
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