

CITY OF BLOOMINGTON ENGINEERING DEPARTMENT

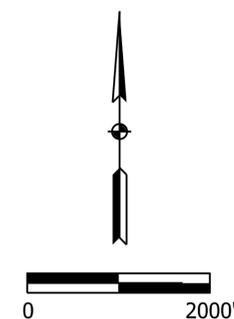
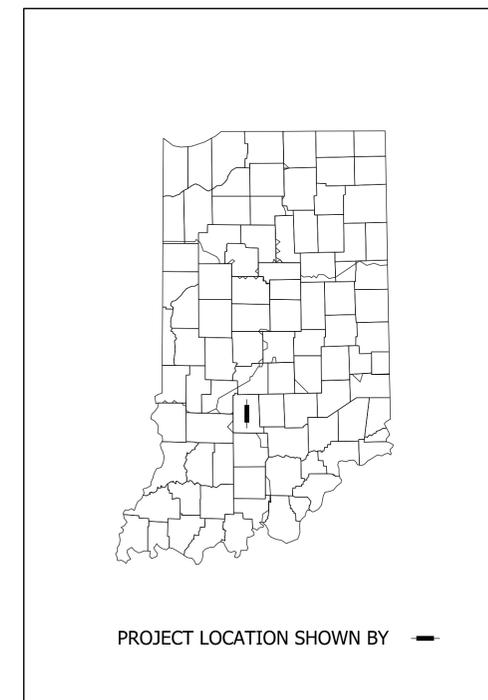
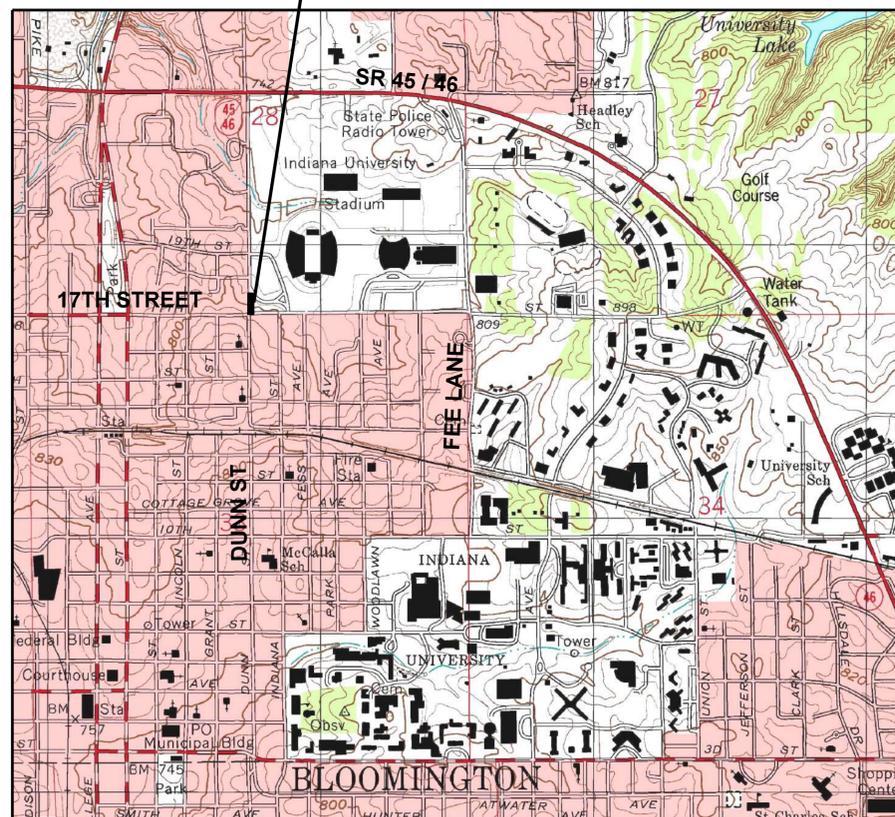


NORTH DUNN STREET SIDEWALK CONNECTION

INDEX OF DRAWINGS

- 1 TITLE SHEET, INDEX
- 2 GENERAL NOTES, LEGEND, UTILITY DATA, SUMMARY OF QUANTITIES TABLE, STRUCTURE DATA TABLE
- 3 MISCELLANEOUS DETAILS
- 4 PLAN AND PROFILE

PROJECT SITE:
NORTH DUNN STREET SIDEWALK CONNECTION



LOCATION MAP

INDIANA UNIVERSITY
BLOOMINGTON, INDIANA

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS CURRENT EDITION
TO BE USED WITH THESE PLANS.

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8720 Castle Creek Pkwy E Dr, Suite 400,
Indianapolis, IN 46250
<https://eticagroup.com>



RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	9-20-2024	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

CITY OF BLOOMINGTON DUNN STREET SIDEWALK CONNECTION	
TITLE SHEET, INDEX	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	ETICA PROJECT
N/A	240039
SURVEY BOOK	SHEETS
N/A	1 of 4
CONTRACT	
N/A	

DUNN STREET SIDEWALK CONNECTION

UTILITIES

ELECTRIC: DUKE ENERGY SITE MEETS AND COORDINATION: del-dlne-coord@duke-energy.com ATTN: CINDY ROWLAND Cindy.rowland@duke-energy.com 317-776-5341 CHRISTINA GIROD Christina.girod@duke-energy.com 317-273-9596 LIGHTING CONTACT: ATTN: CRAIG BARKER Craig.barker@duke-energy.com 317-452-3743 GAS: CENTERPOINT ENERGY (FORMER VECTREN) ATTN: ARIEL THOMAS athomas@centerpointenergy.com 812-272-2438 STORM/SANITARY/WATER: CITY OF BLOOMINGTON UTILITIES - MUNICIPAL UTILITY ATTN: JANE FLEIG, P.E. fleigj@bloomington.in.gov 812-349-3631 600 E. MILLER DRIVE BLOOMINGTON, IN 47404	TELECOMMUNICATIONS: AT&T ATTN: TOD MOORE Tm1925@att.com O: 812-234-4718; CELL: 812-606-2957 4517 INDIANA BELL COURT BLOOMINGTON, IN 47408 BLOOMINGTON DIGITAL UNDERGROUND ATTN: ROB CRONK Rob.cronk@bloomington.in.gov 812-349-3454 401 N. MORTON STREET SUITE 160 BLOOMINGTON, IN 47404 COMCAST ATTN: RICHARD MILLER Richard.Miller3@comcast.com 317-945-2670 Steve McArtor Steve.mcartor@cable.comcast.com 812-360-3090 SCOTT TEMPLETON Scott.Templeton@comcast.com 812-822-3262 1600 W. VERNAL PIKE BLOOMINGTON, IN 47404 LUMEN (FORMER LEVEL 3 AND CENTURY LINK) ATTN: GARY CARVER Gary.carver@lumen.com 318-388-9775 ATTN: JOHN LUNVERFERTH 419-771-8332 4625 W. 86TH STREET INDIANAPOLIS, IN 46268	TELECOMMUNICATIONS (CONT.): SMITHVILLE COMMUNICATIONS ATTN: JOE BRYNIARSKI Joe.bryniarski@smithville.com 812-320-9317 1600 W. TEMPERANCE STREET ELLETTSVILLE, IN 47429-0729 US SIGNAL ATTN: CHARLIE OLSZEWSKI colszewsk@ussignal.com 616-988-7194 201 IONIA AVE, SW GRAND RAPIDS, MI 49503 WINDSTREAM (FORMER KDL) ATTN: MARK MILLS Mark.mills@windstream.com 217-460-0002 5020 SMYTHE DRIVE EVANSVILLE, IN 47715 ZAYO ATTN: WAYLON HIGGINS Waylon.Higgins@zayo.com 765-341-1199 9209 CASTLEGATE DR. INDIANAPOLIS, IN 46256 INDIANA UNIVERSITY ILL-OWNED FACILITIES ATTN: PHIL NICHOLS / SCOT OSBORN pnichol@indiana.edu scosborn@iu.edu 812-856-2789 IU LOCATES: ATTN: DONNIE GOODWIN dgoodwin@indiana.edu 812-856-1147
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GENERAL NOTES

USE OF INDOT STANDARD SPECIFICATIONS: UNLESS OTHERWISE PROVIDED IN THESE PLANS OR THE TECHNICAL SPECIFICATIONS, MATERIALS AND WORKMANSHIP OF THE WORK SHALL BE AS REQUIRED BY THE CURRENT EDITION OF THE INDOT STANDARD SPECIFICATIONS, EXCEPT FOR STORM SEWER WORK, WHICH WILL BE PER CBU SPECIFICATIONS.

USE OF PROPERTY: NO MATERIALS OR EQUIPMENT SHALL BE STORED IN A LOCATION OR MANNER WHICH PRESENTS A HAZARD TO THE PUBLIC OR THE ENVIRONMENT. THE SAFEGUARD OF MATERIALS REMAINING IN THESE AREAS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

COORDINATION OF DRAWINGS, TECHNICAL SPECIFICATIONS AND STANDARD SPECIFICATIONS: THE CONTRACT DOCUMENTS WHICH ARE LISTED IN THE AGREEMENT ARE INTENDED TO BE COMPLEMENTARY AND TO DESCRIBE AND PROVIDE FOR COMPLETE WORK. A REQUIREMENT APPEARING IN ONE IS BINDING AS THOUGH OCCURRING IN ALL. IN CASE OF DISCREPANCY, THE FOLLOWING ORDER OF PRECEDENCE WILL APPLY:

1. CONSTRUCTION AGREEMENT,
2. INSTRUCTIONS TO BIDDERS,
3. SUPPLEMENTARY GENERAL CONDITIONS,
4. PERMITS ISSUED BY FED/STATE/LOCAL AGENCIES
5. TECHNICAL SPECIFICATIONS,
6. GENERAL CONDITIONS,
7. PROJECT DRAWINGS,
8. STANDARD SPECIFICATIONS AS PUBLISHED BY THE INDIANA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION.

PRESENCE OF UTILITIES: EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS, LOCATOR'S MARKINGS, AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY ALSO BE PRESENT. EXACT LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

UTILITY LOCATIONS: CONTRACTOR IS REQUIRED BY LAW TO NOTIFY INDIANA UNDERGROUND LOCATION SERVICE AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION WORK. CONTACT NUMBER IS 811. OTHER LOCAL UTILITIES MAY NOT BE SUBSCRIBERS AND MUST BE CONTACTED INDIVIDUALLY FOR LOCATE REQUESTS.

INCIDENTAL WORK: ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHER WORK WHICH MAY BE INCIDENTAL TO THE DENOTED WORK SHALL BE CONSIDERED TO BE INCLUDED IN THE TOTAL CONTRACT LUMP SUM PRICE.

PERMITS: CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LOCAL PERMITS TO COMPLETE THE WORK AS SHOWN, PERMITS ARE REQUIRED WHEN A RESTRICTION IS TO BE USED FOR CITY STREETS. CONTRACTOR WILL BE REQUIRED TO COMPLETE THE APPLICATION OF SUCH PERMITS WHERE THE PERMIT COORDINATION OR APPLICATION IS NOT YET COMPLETE AT THE TIME OF BIDDING.

STAKING: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STAKING.

UTILITY LOCATION AND PROTECTION: CONTRACTOR WILL BE RESPONSIBLE FOR CALLING IN LOCATES, VERIFYING UTILITY/DEPTHS INCLUDING POT-HOLING AS WARRANTED, AND PROTECTING EXISTING UTILITIES IN PLACE. CONTACT ENGINEER IF ADJUSTMENTS ARE NEEDED TO DESIGN TO AVOID A FOUND UTILITY.

LEGEND

<p>23 PCPP FOR CLASS III DRIVES, 9" ON 6" COMPACTED AGGREGATE NO. 53s, ON COMPACTED SUBGRADE</p> <p>24 CONSTRUCTION LIMITS</p> <p>25 CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE NO. 53s</p> <p>26 6" CONCRETE SIDEWALK, REINFORCED ON 4" COMPACTED AGGREGATE NO. 53s</p> <p>27 FULL HMA WEDGE AND LEVEL MILL 1" THEN VARIABLE DEPTH INTERMEDIATE IN MAX 3" LIFTS COVERED WITH 1.5" HMA SURFACE, A</p> <p>13 CONCRETE CURB, REINFORCED, 12" WIDE</p> <p>15 CONCRETE CURB AND GUTTER</p> <p>28 NURSERY SODDING ON MIN. 4" TOPSOIL</p> <p>56 RESET SIGN ON NEW POSTS, TYPE 1</p> <p>AC ADJUST CASTING TO GRADE</p> <p>9 PCPP FOR PATCHING, 9"</p>	<p>TS TURNING SPACE AREA - NOT TO EXCEED 2% IN ANY DIRECTION</p> <p>CROSS SLOPE DIRECTION</p> <p>DETECTABLE WARNINGS (STEEL PLATES ONLY)</p> <p>INDOT STANDARD DRUM</p> <p>BARRICADE, TYPE III-B</p> <p>TRAFFIC FLOW DIRECTION</p> <p>CP CULVERT PROTECTION</p> <p>SF SILT FENCE</p> <p>IP INLET PROTECTION</p> <p>DOUBLE SIGN POST</p> <p>FIRE HYDRANT</p> <p>BOLLARD - CONCRETE</p> <p>UTILITY POLE</p> <p>TRAFFIC SIGNAL MANHOLE</p> <p>WARNING MARKER - GAS</p> <p>CONIFEROUS TREE</p> <p>DECIDUOUS TREE</p> <p>BORING LOCATION</p> <p>ANCHOR FOR GUY ROPE</p>	<p>UTILITY POLE</p> <p>LIGHT POLE</p> <p>SINGLE ARM CANTILEVER SIGN</p> <p>SINGLE SIGN POST</p> <p>PEDESTRIAN SIGNAL POLE</p> <p>FR FIBER RISER</p> <p>ER ELECTRIC RISER</p> <p>R/W RIGHT-OF-WAY MARKER</p> <p>PB PULLBOX</p> <p>ELECTRICAL BOX</p> <p>POST</p> <p>CC-TR TRAFFIC CONTROLLER CABINET</p> <p>UC UNDERGROUND CABLE</p> <p>FO UNDERGROUND FIBER OPTIC LINE</p> <p>UE UNDERGROUND ELECTRIC</p> <p>STM UNDERGROUND STORM (RAIN) SEWER</p> <p>W UNDERGROUND WATER</p> <p>UNDERGROUND GAS</p> <p>OU OVERHEAD UTILITY</p>
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ESTIMATE OF PAVEMENT AND MISCELLANEOUS QUANTITIES TABLE

	CONCRETE SIDEWALK, 6", INCL. REINFORCING		CONCRETE SIDEWALK, 4"		CURB AND GUTTER, TYPE C		PCPP FOR APPROACHES, 9"		COMPACTED AGG. BASE #53s		PCPP FOR PATCHING, 9"	TACK COAT	HMA FOR PATCHING, PARTIAL DEPTH, B	JOINT ADHESIVE	HMA WEDGE AND LEVEL	LINEAR GRADING	SODDING, NURSERY incl. TOPSOIL AS NEEDED	CASTING, VALVE OR METER, ADJUST TO GRADE	SIGNS	
	6"	4"	4"	6"	SYS	SYS	SYS	SYS	SYS	EA									EA	
All Project	256	24	140	73	76	282	43	43	43	130	82	300	570	2	2					
Subtotal>	256	24	140	73	76	282	43	43	43	130	82	300	570	2	2					
Subtotal Units>	SYS	SYS	LFT	SYS	SYS	SYS	SYS	SYS	SYS	LFT	SYS	LFT	SYS	EA	EA					
Pay Total>	256	24	140	73	Combine>	43	43	4	130	21	300	570	2	2						
Pay Units>	SYS	SYS	LFT	SYS	109	TONS	SYS	SYS	TONS	LFT	TON	LFT	SYS	EA	EA					

Signs are to be mounted 7' from top of anchor base to bottom of sign per City standards.
All removal tasks are to be paid as CLEARING

SURVEY CONTROL TABLE (From USI project # 2020-0025)

POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
100	201623.3250	779335.5470	803.28	5/8" REBAR W/ USI CONTROL CAP
101	201963.9120	779431.9110	778.97	5/8" REBAR W/ USI CONTROL CAP

STRUCTURE DATA

STRUCTURE NUMBER	PIPE SIZE	PIPE MATERIAL	MANHOLE, CATCH BASIN, INLET, OR SPECIALTY STRUCTURE	LENGTH	SLOPE	COVER	FLOWLINE		CASTING	CONNECT TO STR.	BEDDING BACKFILL #11 OR #12 CRUSHED AGGREGATE	PRIMARY BACKFILL #11 OR #12 CRUSHED AGGREGATE	EROSION CONTROL - INLET PROTECT REQUIRED	NOTES
							UP STREAM	DOWN STREAM						
11	24	HDPE	Manhole D4	156	7.0	3.0	798.08	787.10	803.04	13	6.4	78.0		
12	12	HDPE	Inlet C15	15	16+/-	1.5	792.50	790.00	793.87	13	0.4	3.1	1	Adjust Pipe depth as needed to avoid buried FO.
13	NA	NA	Manhole D4	0	NA	NA	NA	~786.7	792.00	Exist	0.0	0.0	1	Connect to Ex. Elliptical pipe 30"x19"
13A	6	PVC	Pipe Stub	6	Field Det.	Field Det.	Exist	~787.11	NA	13	0.2	0.5		Connect to Ex. Small Drain Pipe
											7	82	2	
											CYD	CYD	EA	

- NOTES:**
- 1 All work on structures shall be per CBU specifications.
 - 2 Contractor shall be required to schedule a Preconstruction meeting with City of Bloomington Utilities.
 - 3 All elevations of pipe inverts are to be verified in the field by the contractor prior to ordering precast structures.



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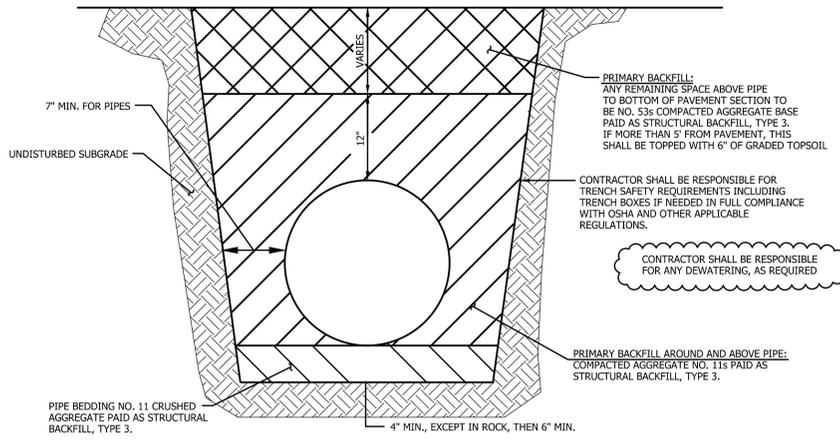


RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	9-20-2024	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

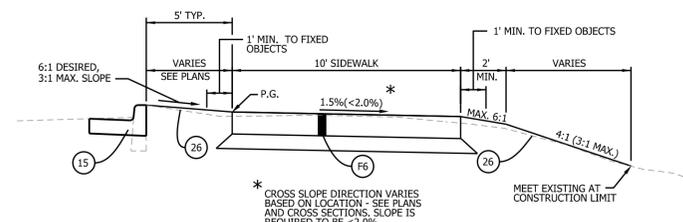
CITY OF BLOOMINGTON
DUNN STREET SIDEWALK CONNECTION

GENERAL NOTES, LEGEND,
UTILITY DATA,
SUMMARY OF QUANTITIES TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	ETICA PROJECT
N/A	240039
SURVEY BOOK	SHEETS
N/A	2 of 4
CONTRACT	
N/A	

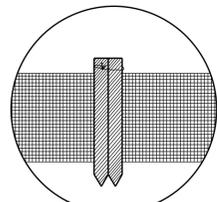


BACKFILL OVER NEW PIPES
NTS



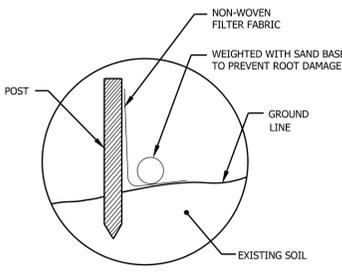
TYPICAL PATH SECTION
NTS

JOINING FENCES

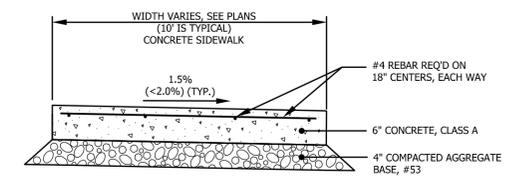


WHEN JOINING TWO OR MORE SILT FENCES TIE THE TWO END POSTS TOGETHER WITH EXISTING NYLON CORDS.

SLOPE CHECK



SILT FENCE DETAIL
NTS



F6 REINFORCED SIDEWALK DETAIL
NTS

SIDEWALK JOINT NOTES:

1. INSTALL 1/2" PREFORMED JOINT FILLER BETWEEN SIDEWALKS AND ANY OTHER FIXED FEATURES (CURBS, STEPS, RAMP, BUILDINGS, ETC.)
2. IN EACH SIDEWALK SEGMENT, SAW CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 10' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH 1/2" PREFORMED JOINT FILLER AT A MAXIMUM SPACING EVERY 40' IN SIDEWALKS, AND AT EACH SIDEWALK CONNECTION TO OTHER SIDEWALKS, AT CURBS, AND AT RAMP.
3. CONTRACTION AND EXPANSION JOINTS SHALL BE INSTALLED BY SAWING, BUT FINAL SURFACE SHALL BE BROOM FINISHED. NO "WINDOW-PANE" OR SIMILAR TOOLING SHALL BE USED.

CONCRETE SLAB JOINT NOTES:

1. CONCRETE SLAB CONSTRUCTION AND EXPANSION JOINTS SHALL BE IN ACCORDANCE WITH INDOT STANDARDS.

CURB JOINT NOTES:

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
 - 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.

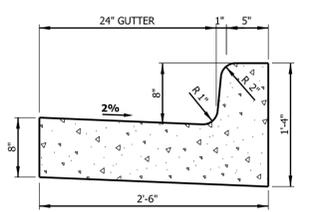
CURB RAMPS AND TRUNCATED DOMES:

1. RAMPS TO BE CONSTRUCTED AT A MAXIMUM 12:1 SLOPE TO A LANDING AREA FOR ENTRY ONTO ROADWAY PER PLANS.

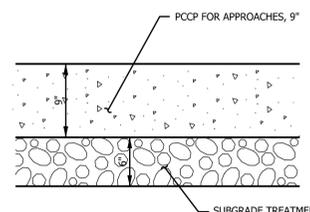
GENERAL REQUIREMENTS:

1. FLAGGER OPERATIONS AND TEMPORARY SIGNAGE IN ACCORDANCE WITH INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ARE REQUIRED FOR ALL LANE RESTRICTIONS.
2. ALL SIGNS TO BE MOUNTED ON STANDARDS.
3. ALL SIGNS, BARRICADES AND DRUMS TO BE MOUNTED WITH A TYPE C (STEADY BURN) WARNING LIGHT AND MAINTAINED DUSK TO DAWN.

F CONCRETE SIDEWALK, 4" NOTES ABOVE APPLY AND THICKNESS IS STANDARD 4" WITHOUT REINFORCING

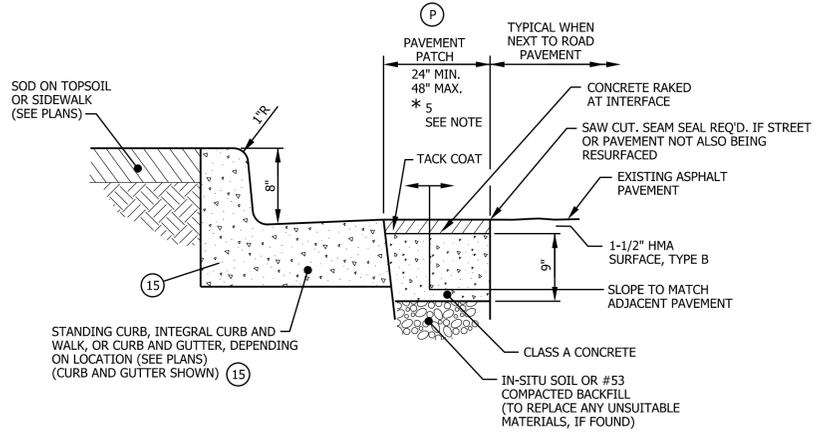


15 COMBINED CONCRETE CURB AND GUTTER, 24" GUTTER
NTS



C3 TYPICAL CLASS III DRIVE PAVEMENT
NTS

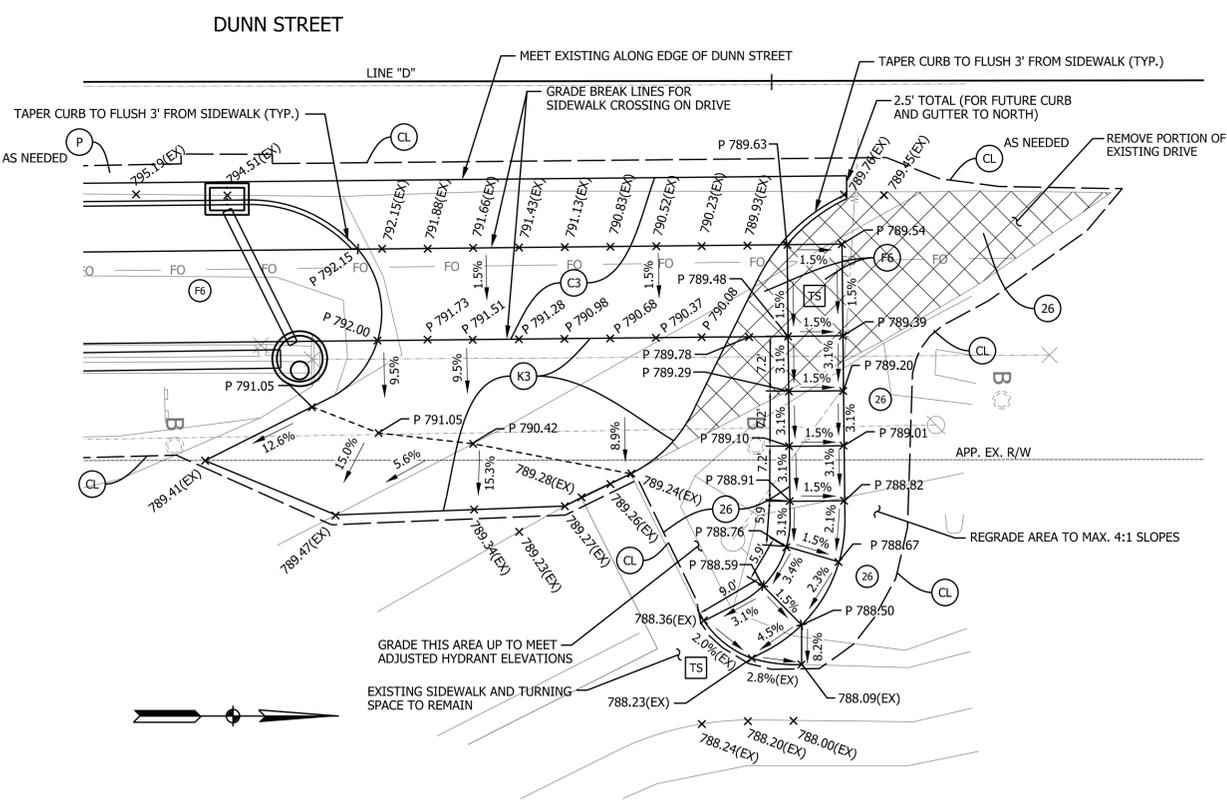
* ALL SUBGRADE AREAS SHALL BE PROOFROLLED. UNDERCUTTING WILL BE AT DISCRETION OF THE ENGINEER, AND IF USED WILL CONSIST OF: REMOVAL OF AN ADDITIONAL 6" OF SOILS AND REPLACEMENT WITH COMP. AGG. NO. 5, WITH GEOGRID TYPE 2B



15 P PAVEMENT PATCH / CONCRETE CURB DETAIL
NTS

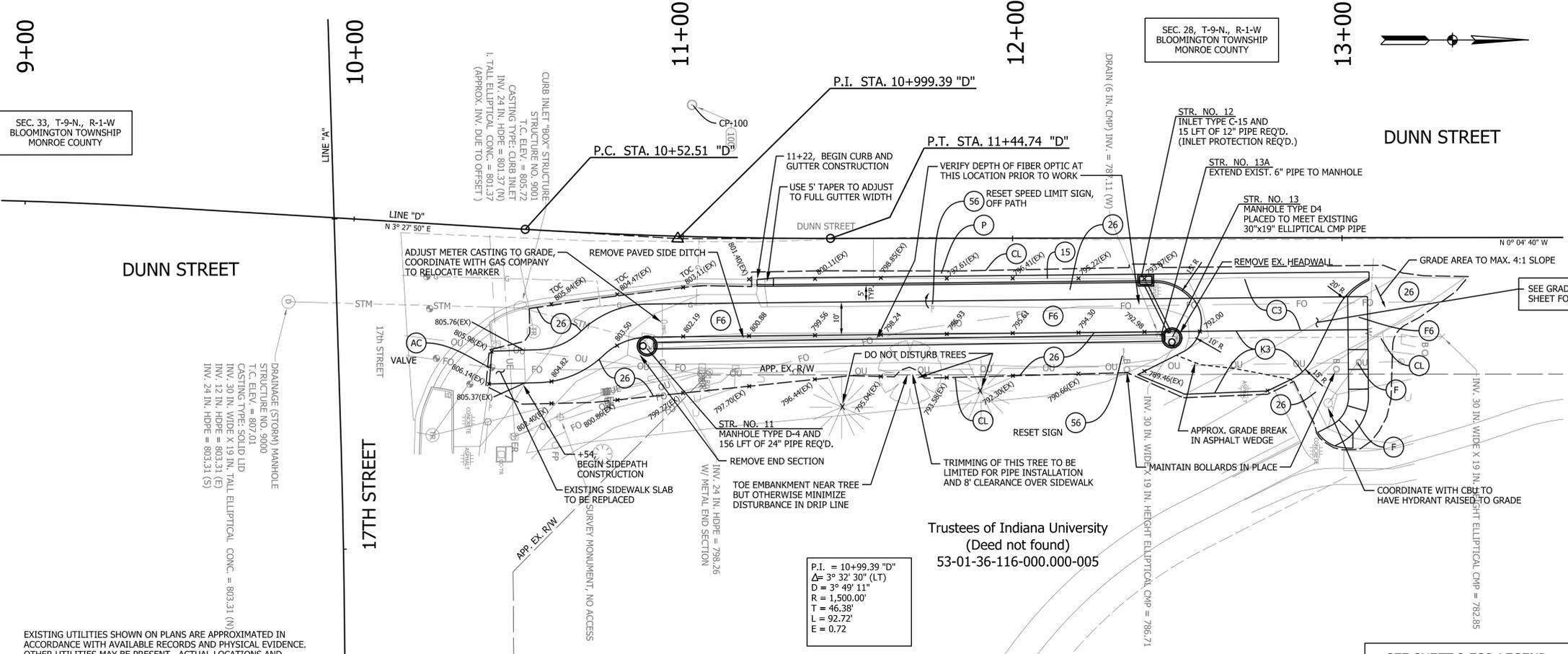
NOTES:

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. OWNER APPROVAL IS REQUIRED.
4. PAVEMENT PATCHING REQUIRED WHEREVER PAVEMENT IS CUT FOR PIPE WORK, AND WHERE EXISTING PAVEMENT IS DAMAGED TO COMPLETE THE REQUIRED CURB, DRIVE OR SIDEWALK WORK.
5. PAVEMENT PATCHING WIDTH TO BE FIELD DETERMINED BASED ON EXISTING PAVEMENT CONDITION. EXISTING CRACKING VARIES BY LOCATION AND INTENT IS TO KEEP PATCHING WIDTH AT THE MINIMUM UNLESS A STABLE EDGE OF THE PATCH CANNOT BE ESTABLISHED.



SEC. 33, T-9-N., R-1-W
BLOOMINGTON TOWNSHIP
MONROE COUNTY

SEC. 28, T-9-N., R-1-W
BLOOMINGTON TOWNSHIP
MONROE COUNTY



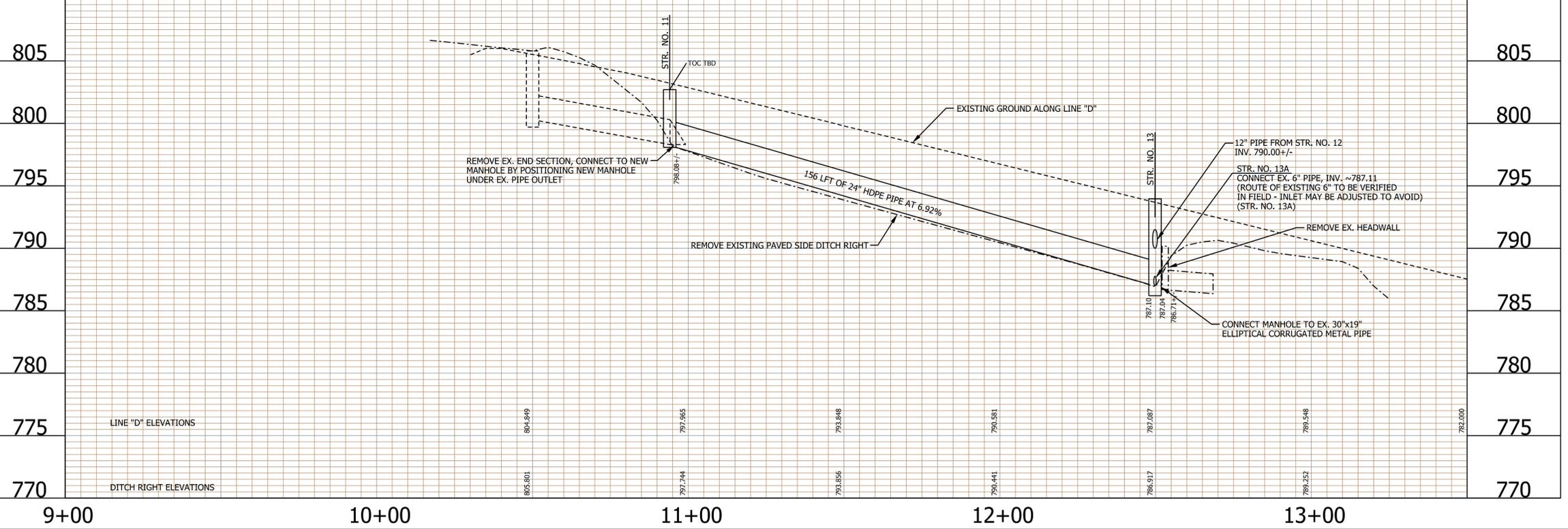
DRIVE CLOSURE TO REQUIRE:
120' OF TYPE III-B BARRICADES AND
3 EA. "ROAD CLOSURE", R11-2 (2 EA. FOR DUNN STREET SIDE)

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.

P.I. = 10+99.39 "D"
Δ = 3° 32' 30" (LT)
D = 3° 49' 11"
R = 1,500.00'
T = 46.38'
L = 92.72'
E = 0.72

Trustees of Indiana University
(Deed not found)
53-01-36-116-000-005

SEE SHEET 2 FOR LEGEND



240039planProf.dgn 3:07:00 PM 9/19/2024



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Indianapolis, IN 46250
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RECOMMENDED FOR APPROVAL *B. Ridgway* DESIGN ENGINEER 9-20-2024 DATE
DESIGNED: BR DRAWN: RBA
CHECKED: MT CHECKED: BR

CITY OF BLOOMINGTON
DUNN STREET SIDEWALK CONNECTION
PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	ETICA PROJECT
1" = 5'-0"	240039
SURVEY BOOK	SHEETS
N/A	4 of X
CONTRACT	
N/A	