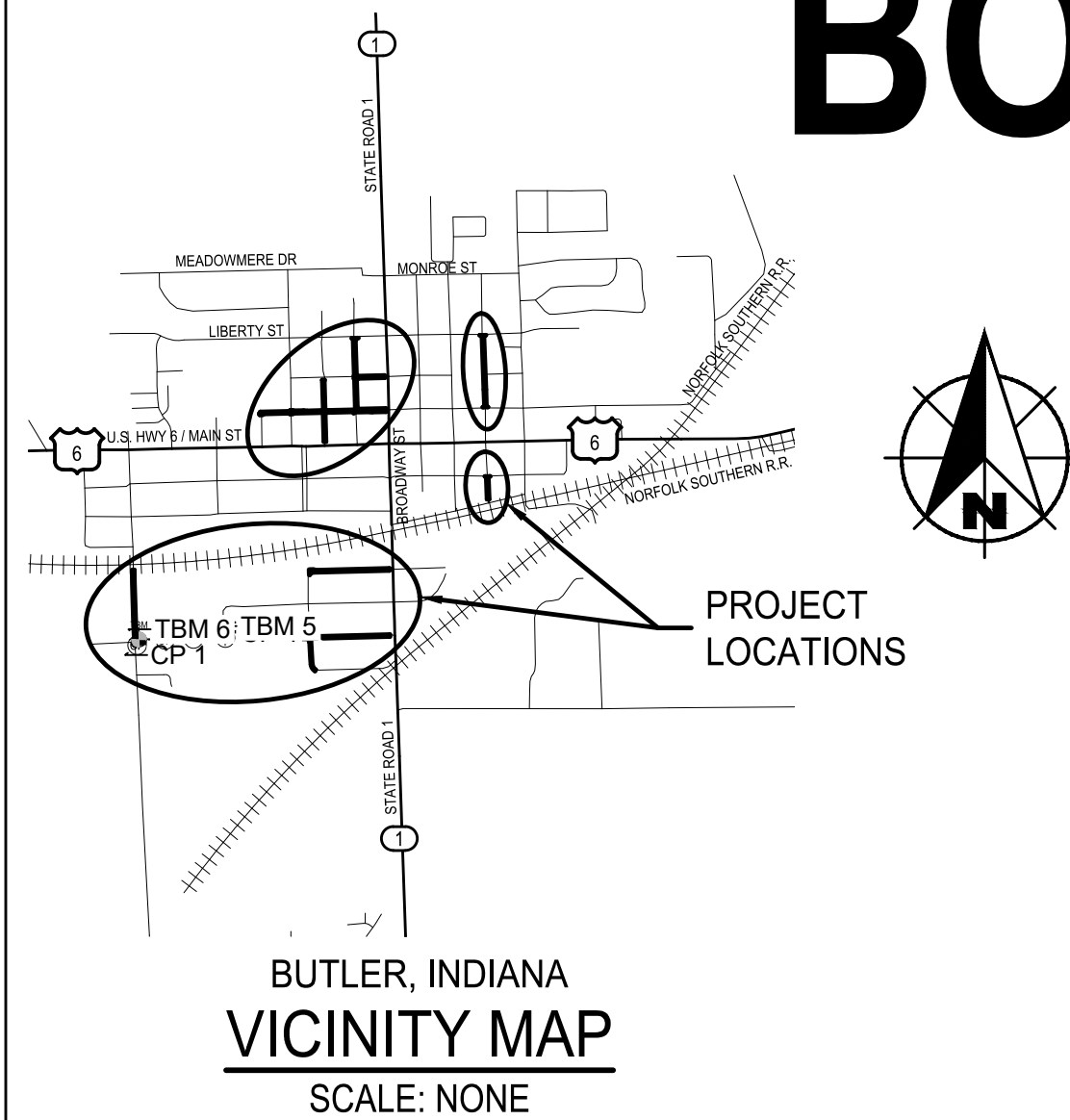


2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS

FOR THE

BOARD OF PUBLIC WORKS AND SAFETY

CITY OF BUTLER INDIANA



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PROJECT NO. 265123-04-001

INDIANA DEPARTMENT OF TRANSPORTATION
LOCAL ROADS AND BRIDGES MATCHING GRANT FUND
DES NO. 2301358

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DRAWINGS PREPARED FOR:

BOARD OF PUBLIC WORKS AND SAFETY

MIKE HARTMAN, MAYOR
BOB HAYWOOD, MEMBER
ERIC JOHNSON, MEMBER

JANUARY 2024

JUSTIN R. FRAZIER
REGISTERED ENGINEER STATE OF INDIANA NO. 20600035

Drawing: X:\Butler\265123 Butler Streets Community Crossing\DWG\Sheets\265123-GS.dwg | Layout: GS-3 | Plotted: 01/10/24 @ 10:20:07 | LastSavedBy: Justin F

EXISTING FEATURES LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
	TEMPORARY BENCH MARK		ELECTRIC METER		LOT BOUNDARY
	SOIL BORING LOCATION		AIR CONDITIONING UNIT		PROPERTY BOUNDARY
	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		CONTOUR - INTERMEDIATE ELEVATION
	BOAT SPIKE (SET/FOUND)		LIGHT POLE		CONTOUR - INDEX ELEVATION
	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE		OVERHEAD ELECTRIC
	RAILROAD SPIKE (SET/FOUND)		LIGHT ON JOINT POLE		OVERHEAD CABLE TV
	R/W MARKER - CONCRETE/GRANITE/STONE		POWER POLE		OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)		TELEPHONE POLE		UNDERGROUND CABLE TV
	BRASS PLUG		LAMP POST		UNDERGROUND ELECTRIC
	CABLE TV MANHOLE		GUY ANCHOR		UNDERGROUND FIBER OPTIC
	ELECTRIC MANHOLE		GUY POLE OR STUB		GAS MAIN
	GAS MANHOLE		CONTROLLER CABINET		DIGESTER GAS
	OTHER MANHOLE		FLAG POLE		PETROLEUM MAIN
	TELEPHONE MANHOLE		POST		UNDERGROUND TELEPHONE
	TELEPHONE VAULT		GROUND LIGHT		WATER MAIN
	TRAFFIC MANHOLE		MAILBOX		WATER SERVICE
	TRAFFIC HANDHOLE		DOUBLE/MULTIPLE MAILBOX		FORCEMAIN
	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		FENCE - METAL
	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET		SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
	DOWNSPOUT		TREE - DECIDUOUS		
	GAS METER		ROCK OUTCROP		
	GAS VALVE		SATELLITE		
	GAS SERVICE VALVE		SPRINKLER CONTROL VALVE		
	PETROLEUM VALVE		WATER METER		
	PETROLEUM SHUTOFF VALVE		WATER VALVE		
	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
	GAS STATION FILL CAP		WATER WELL		
	NATURAL GAS WELL/STORAGE WELL		WET WELL		
	SPRINKLER HEAD		HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL UNEXPECTED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

TABLE OF ABBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
APP	APPARENT	LB	POUND(S)
APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
ASPH	ASPHALT	LN	LANE
ASSOC	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING
AVE	AVENUE	MJ	MECHANICAL JOINT
AVG	AVERAGE	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLVD	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN	MINIMUM
CO	CLEANOUT	MISC	MISCELLANEOUS
CI	CAST IRON	MNFR	MANUFACTURER
CL	CENTER LINE	N	NORTHING, NORTH
CMA	COLD MIX ASPHALT	NGS	NATIONAL GEODETIC SURVEY
CMP	CORRUGATED METAL PIPE	NO.	NUMBER
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	PC	POINT OF CURVE (BEGIN CURVE)
CNR	CORNER	POLY	POLYETHYLENE
CP	CONTROL POINT	PI	POINT OF INTERSECTION
CPP	CORRUGATED PLASTIC PIPE	POT	POINT ON TANGENT
CR STN	CRUSHED STONE	PT	POINT OF TANGENT (END CURVE)
CYD	CUBIC YARD	PSI	POUNDS PER SQUARE INCH
D	DEPTH	PT	POINT
DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
DI MJ	DUCTILE IRON MECHANICAL JOINT	R	RIGHT-OF-WAY
DBL	DOUBLE	RDW	RIGHT-OF-WAY
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RD	ROAD
DIPS	DUCTILE IRON PIPE SIZE	RD	ROAD
DR	DRIVE	SR	SOUTH
E	EASTING, EAST	SST	STATE ROUTE
EF	EACH FACE	SVA	STAINLESS STEEL
EW	EACH WAY	SB	SERVICE VALVE ASSEMBLY
EA	EACH	SCHED	SOIL BORING
EJ	EAST JUNCTION WORKS	SDR	SCHEDULE
EL	ELEVATION	SDR	SCHEDULE
EX	EXCAVATION	SECT	SECTION
EXP	EXPRESSION	SF	SQUARE FEET
FF	FINISH FLOOR ELEVATION	SHT	SHEET
FF	FINISH FLOOR ELEVATION	SHT	SHEET
FM	FORCE MAIN	SHT	SHEET
FO	FOUND	SHT	SHEET
FT	FEET	SHT	SHEET
FTG	FOOTING	SHT	SHEET
GA	GALVANIZED	SHT	SHEET
GPS	GLOBAL POSITIONING SYSTEM	SHT	SHEET
HMA	HOT MIX ASPHALT	SHT	SHEET
HDPE	HIGH DENSITY POLYETHYLENE	SHT	SHEET
HORIZ	HORIZONTAL	SHT	SHEET
ID	INSIDE DIAMETER	SHT	SHEET
IE	INVERT ELEVATION	SHT	SHEET
INC	INCORPORATED	SHT	SHEET
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	SHT	SHEET
INSTR	INSTRUMENT	SHT	SHEET
INV	INVERT	SHT	SHEET

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

- GENERAL NOTES:
1. NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.
 2. ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.
 3. USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER.
 4. TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR, OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
 5. OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
 6. COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 7. ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, OR COMPLETE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) AT LEAST FORTY- EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT IUPPS FOR NON-MEMBER UTILITIES DIRECTLY.
 8. DETERMINE WHICH UTILITIES MAY CONFlict WITH THE WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
 9. EXISTING UTILITY SERVICE LINES FOR INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
 10. COORDINATE ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
 11. COORDINATE ALL PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST FORTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
 12. USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
 13. MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.
 14. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
 15. ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.
 17. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
 18. ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
 19. TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
 20. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
 21. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
 22. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
 23. CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
 24. IN GENERAL, ONE TRAVEL LANE SHALL BE OPEN AT ALL TIMES DURING CONSTRUCTION, UTILIZING THE FLAGGER OPERATION, UNLESS OTHERWISE APPROVED BY THE OWNER.
 25. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE WEEK PRIOR TO CLOSING TRAVEL LANES AND DRIVEWAYS FOR CONSTRUCTION.

UTILITY CONTACTS

WATER

141 WEST WILLOW ST
BUTLER, IN 46721
260-868-5023

SEWER

695 EAST GREEN ST
BUTLER, IN 46721
260-868-2805

ELECTRIC

AMERICAN ELECTRIC POWER
614-933-2297
8600 SMITHS MILL RD
NEW ALBANY, OH 43054
ATTN: JOSHUA ADAMS

GAS

NIPSCO
888-643-5427
801 E 86TH AVE
MERRILLVILLE, IN 46410
ATTN: WALTER EVANS
OFFICE: 219-647-4019

TELEPHONE

FRONTIER COMMUNICATION
877-462-8188
ATTN: HENRY COOKS
henry.cooks@ftr.com

CABLE

MEDIACOM COMMUNICATIONS
1101 W AUBURN DR
AUBURN, IN 46706
260-927-5130 EXT: 3038
845-637-9841
ATTN: DUSTIN KROECKEL

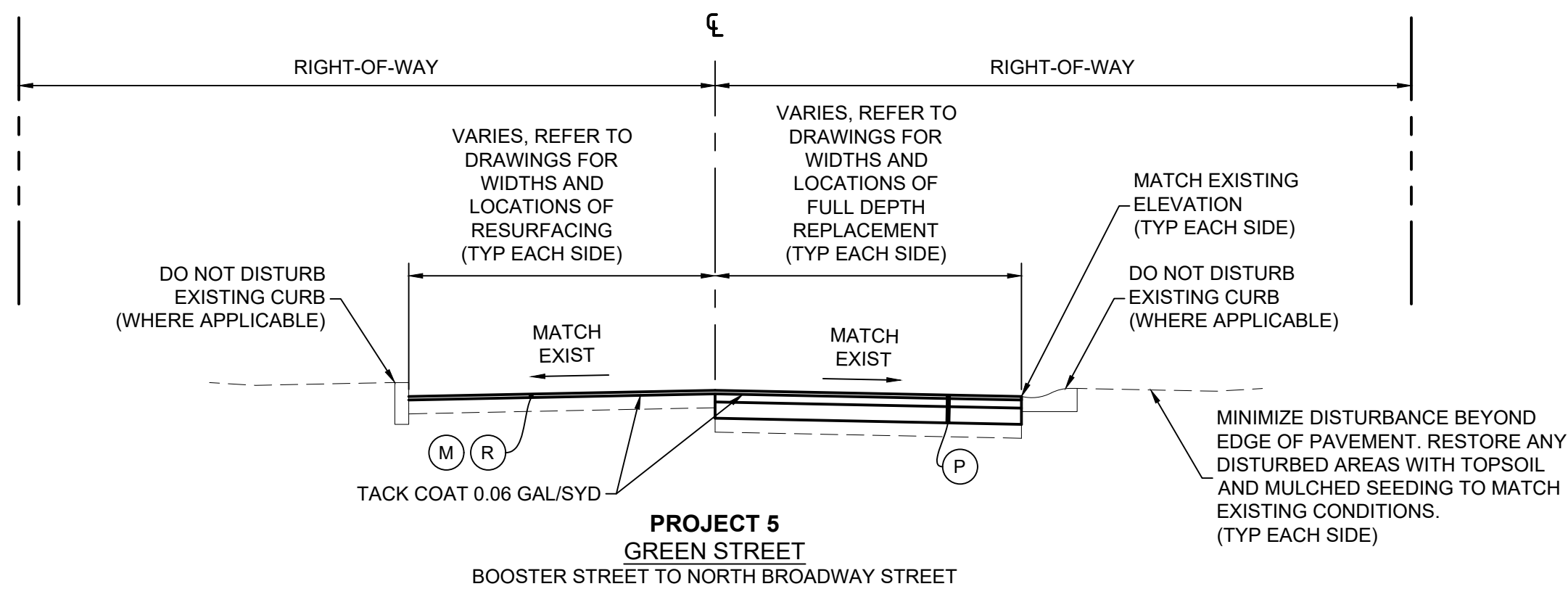
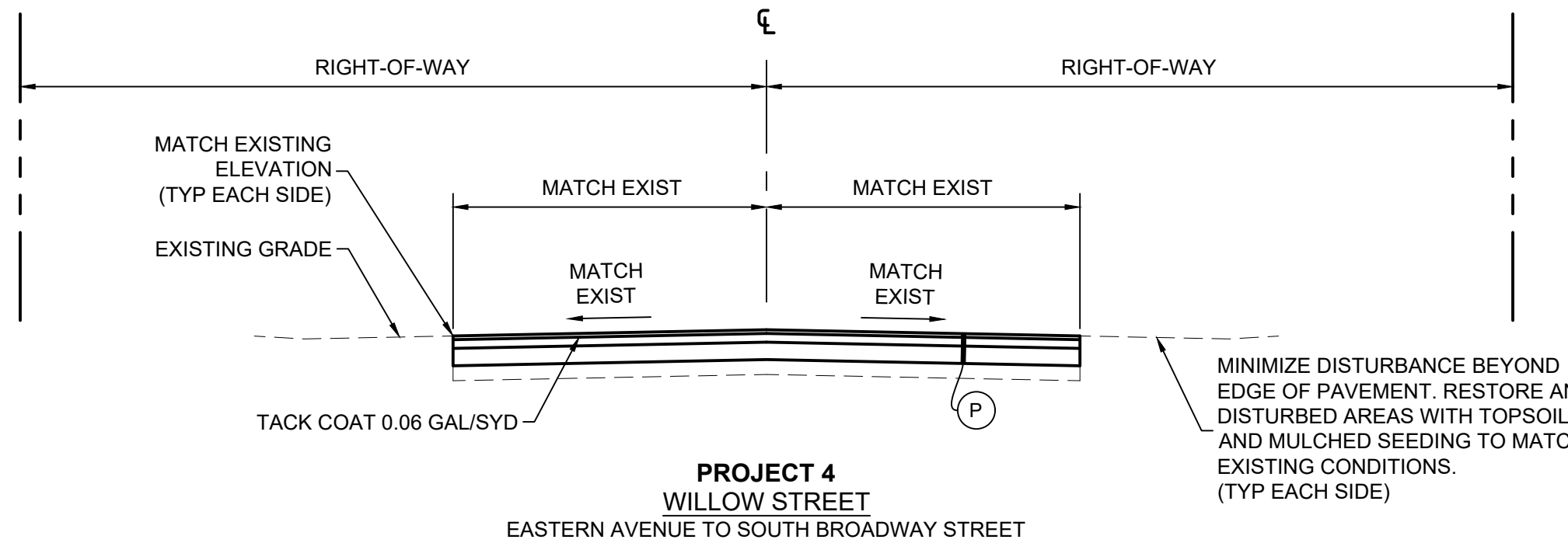
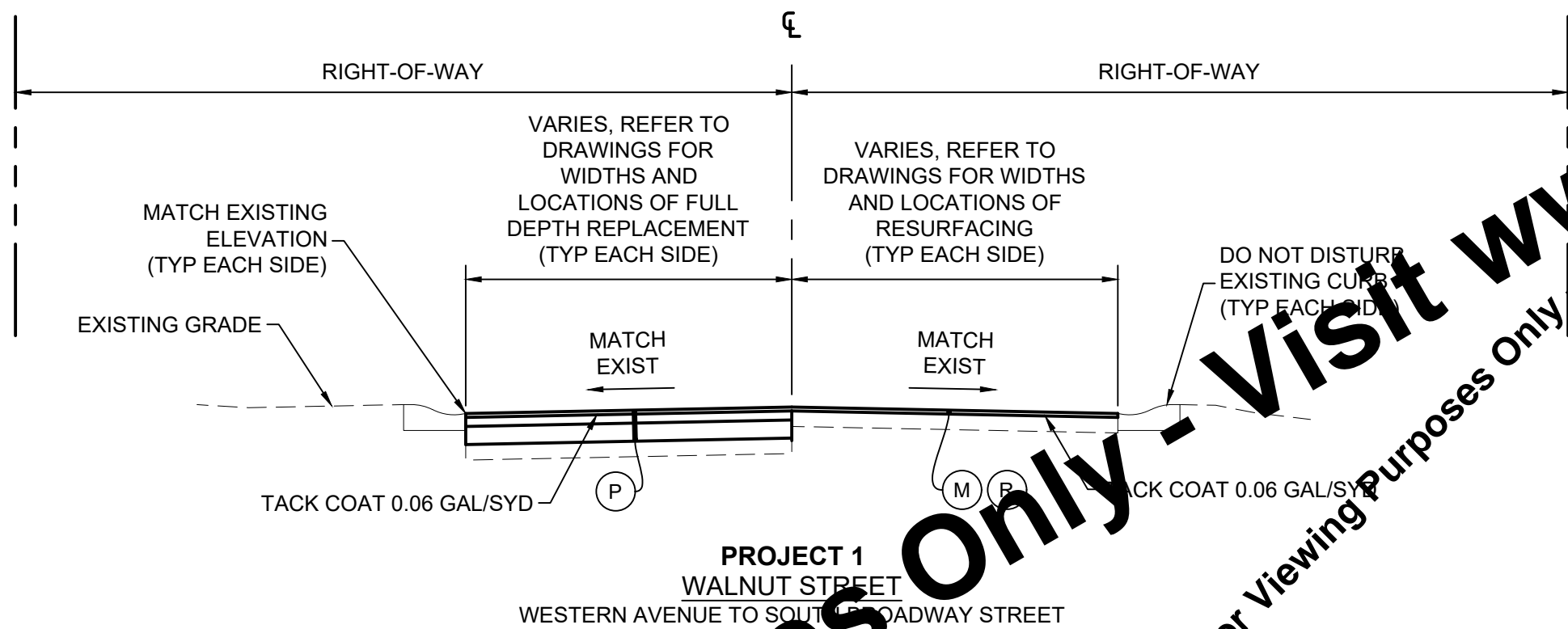
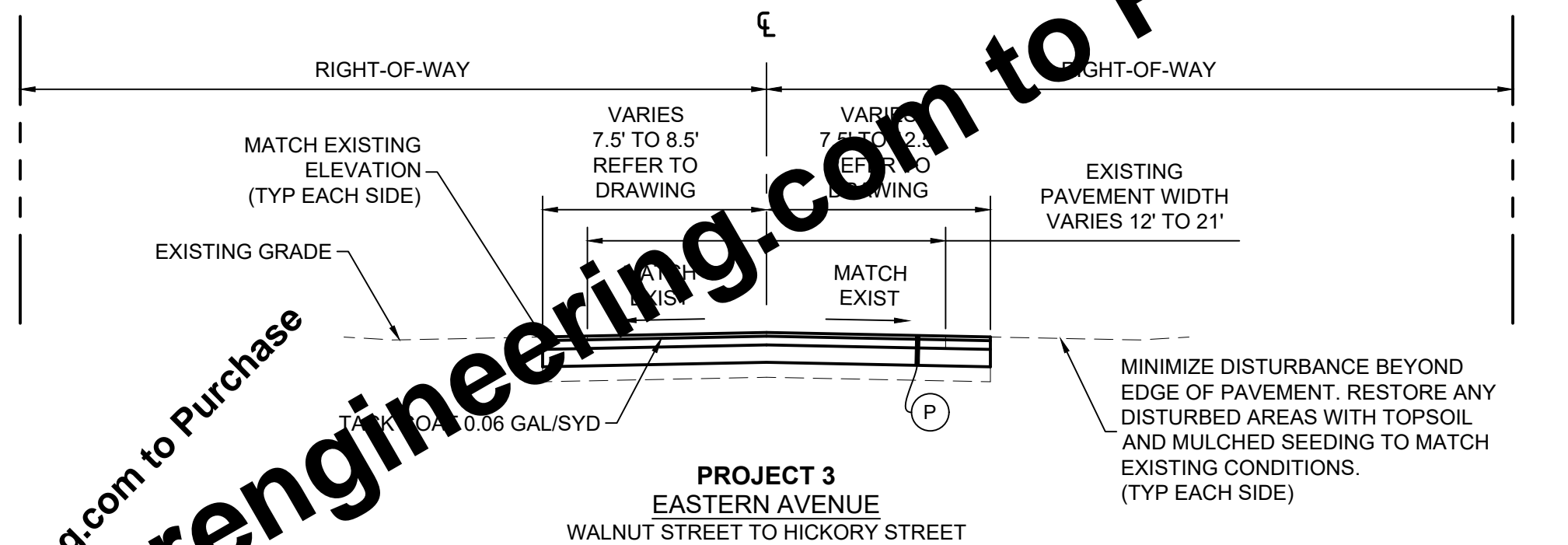
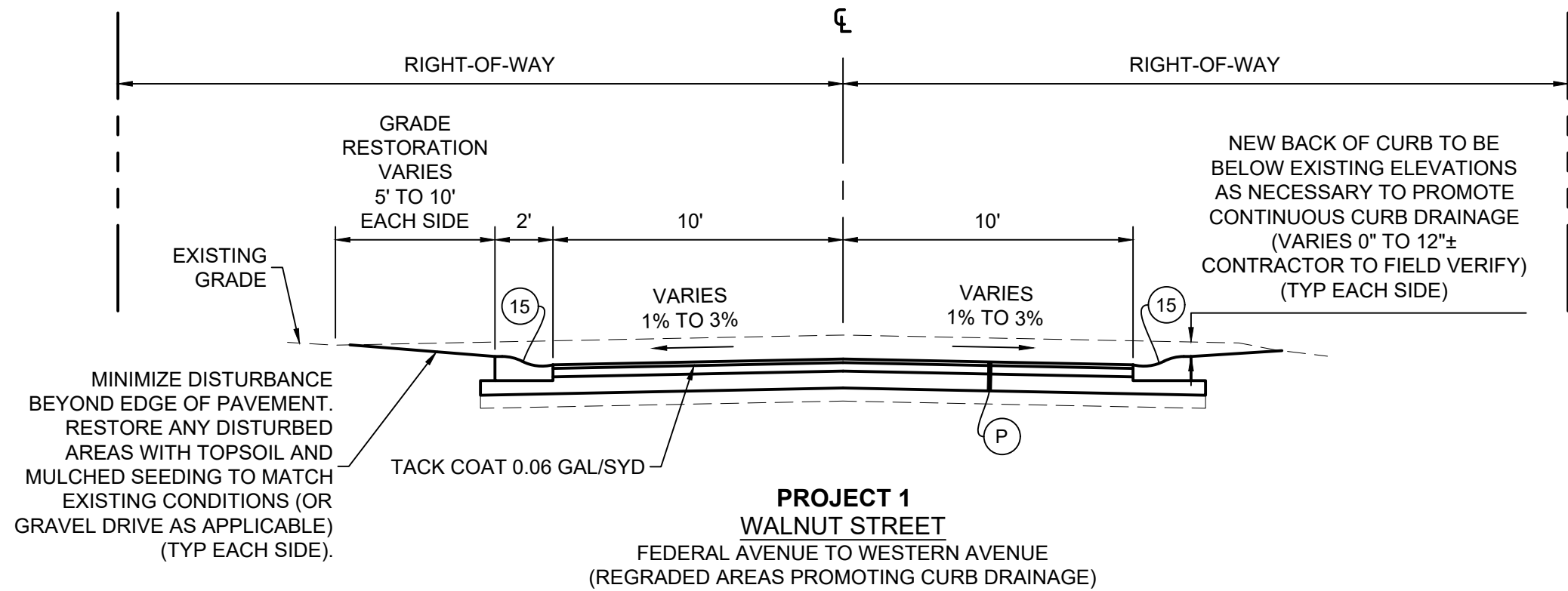
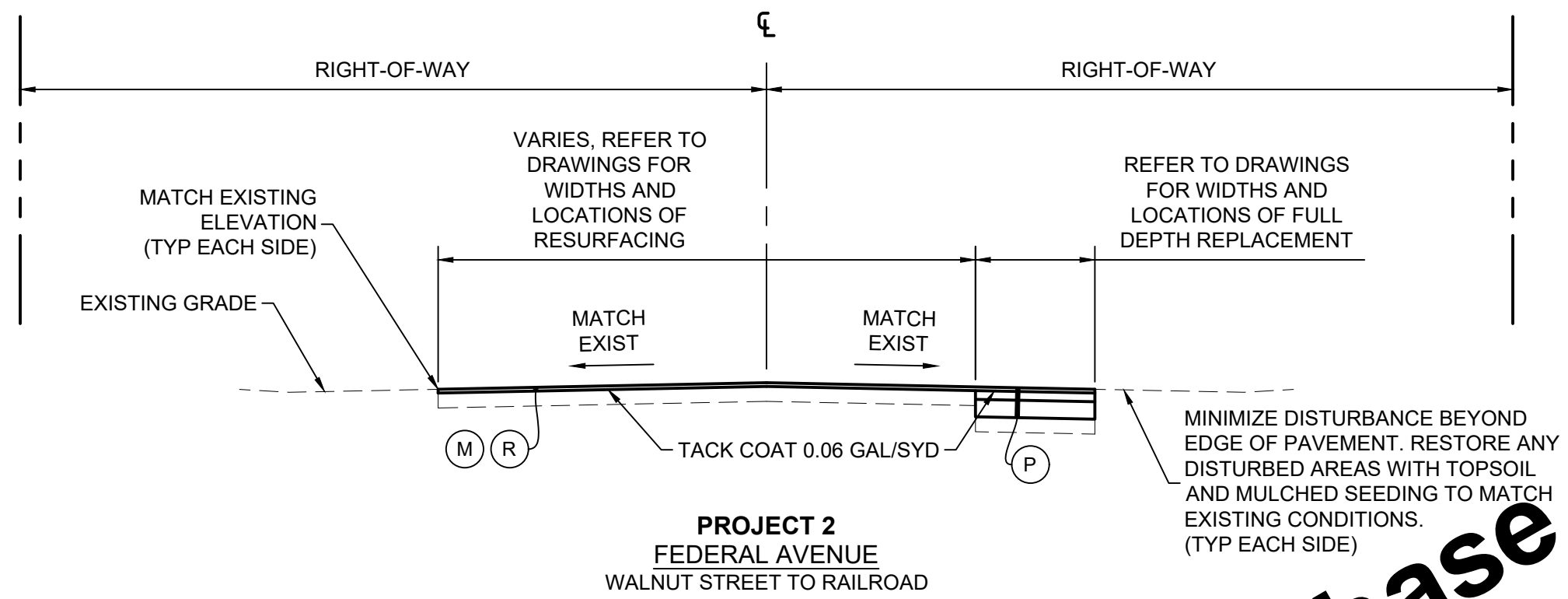
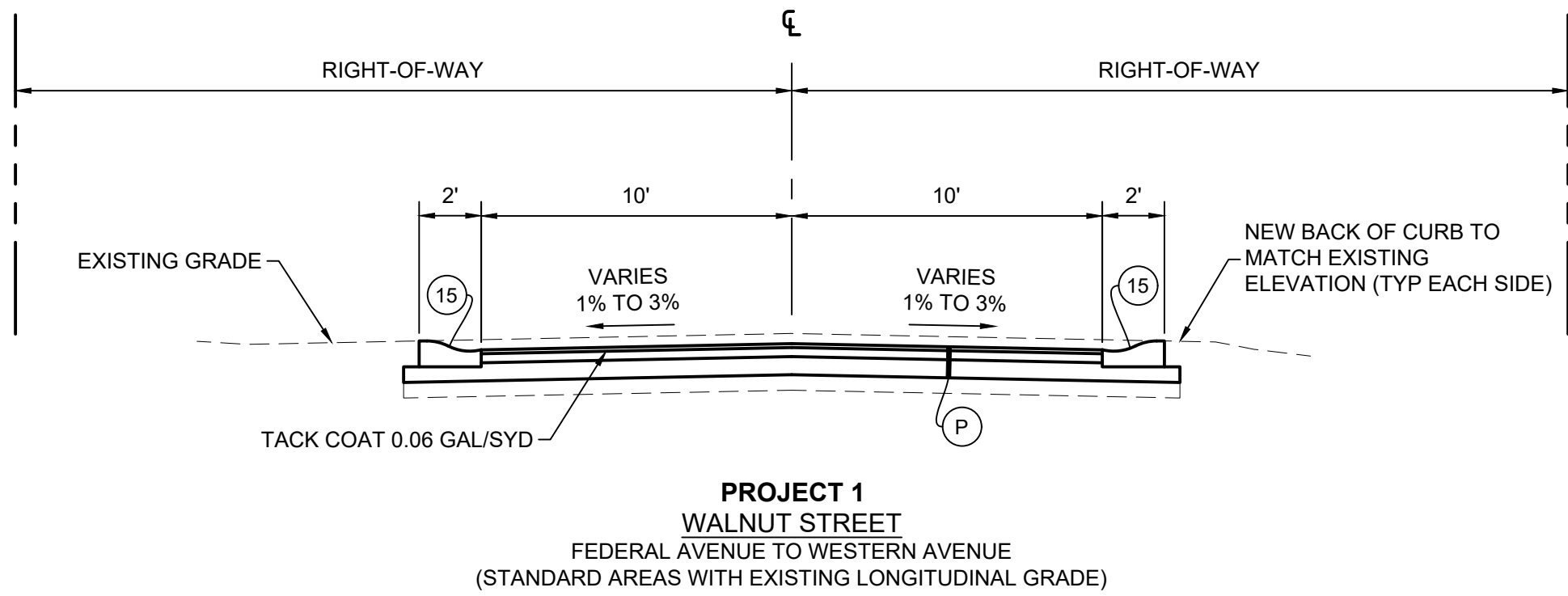
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	APPROVED BY	JRF				
	ISSUE DATE					
	JANUARY 2024					
	PROJECT NUMBER					
	265123-04-001					



2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS	
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA	
GENERAL INFORMATION	

SHEET NO.
03
TOTAL SHEETS
21

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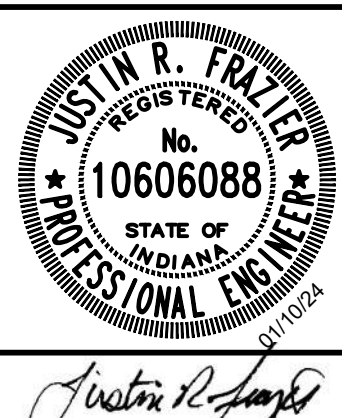
NOTES:

- ALL WORK SHALL BE DONE WITHIN EXISTING CITY RIGHT-OF-WAY. NO WORK WITHIN INDOT RIGHT-OF-WAY.
- ASPHALT MILLING SHALL BE 1.5" BELOW THE EXISTING GRADE. THE EXISTING PAVEMENT SHALL BE CUT TO PROVIDE A VERTICAL FACE OF 1.5" FOR THE TERMINI OF THE NEW SURFACE.

LEGEND:

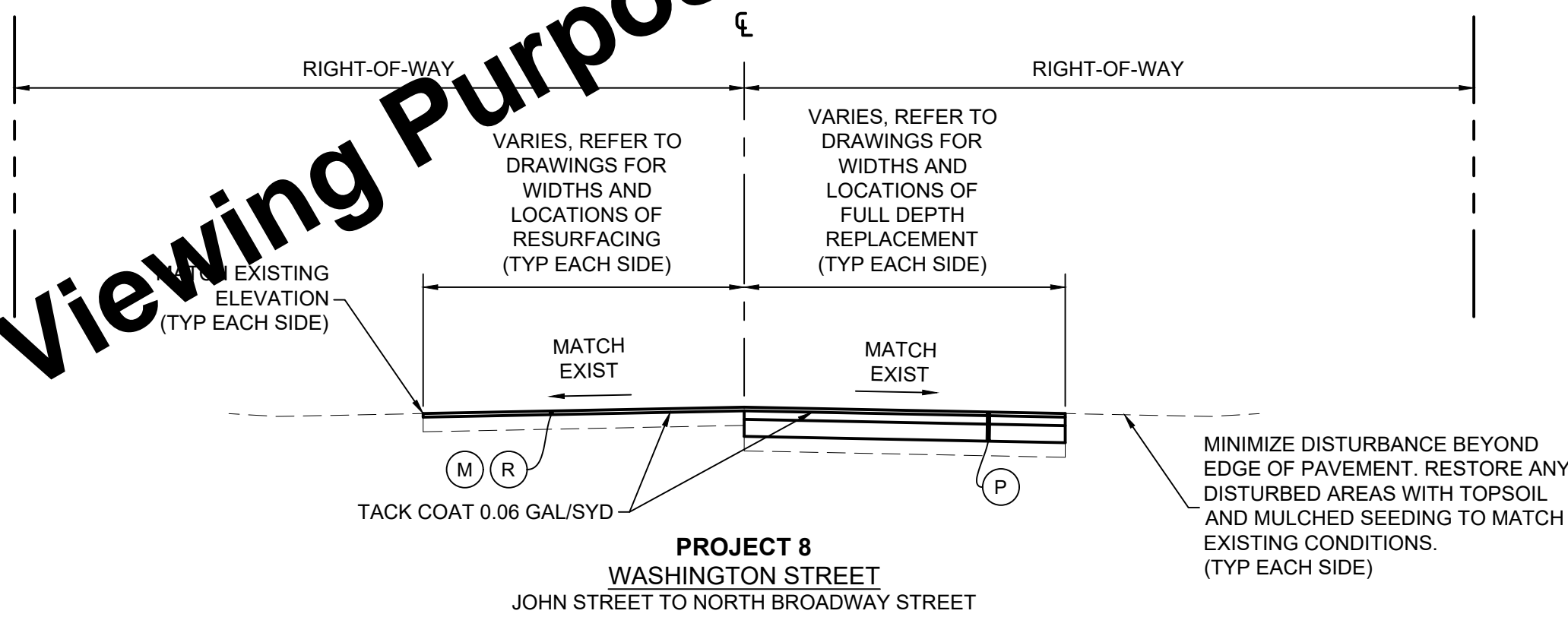
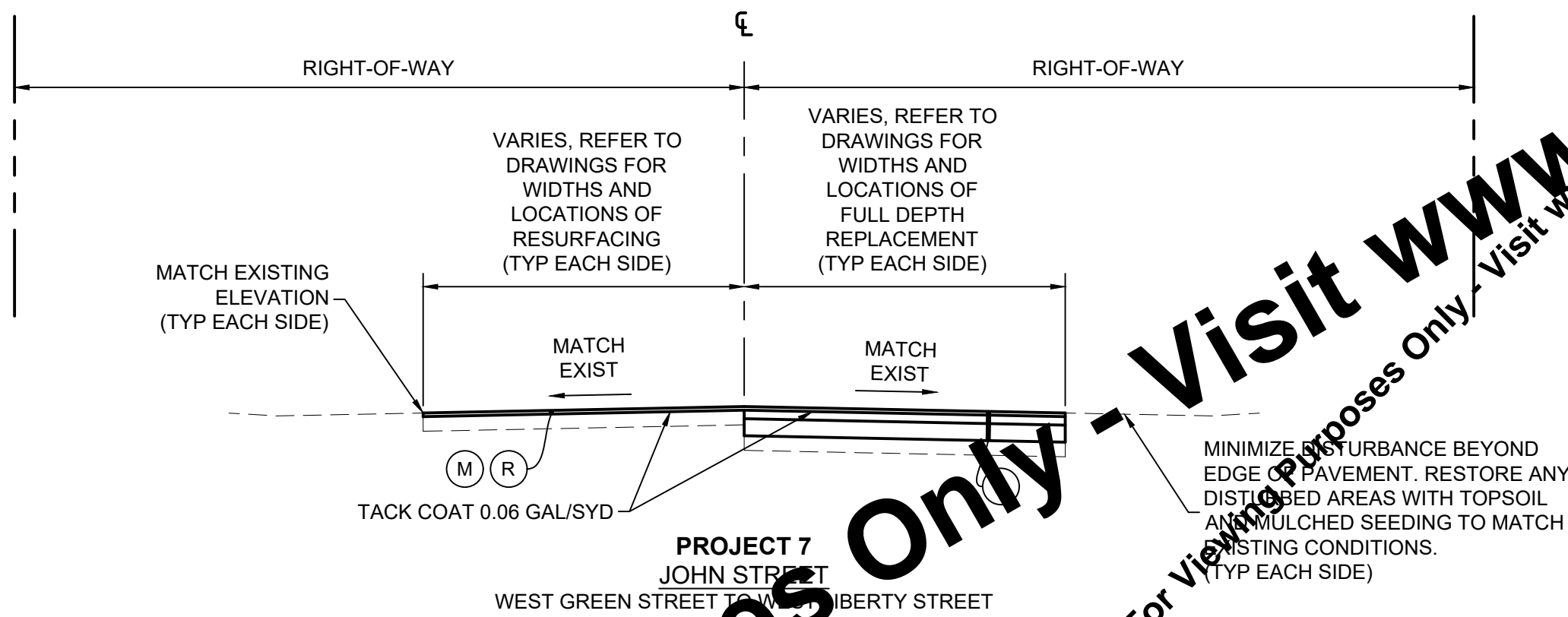
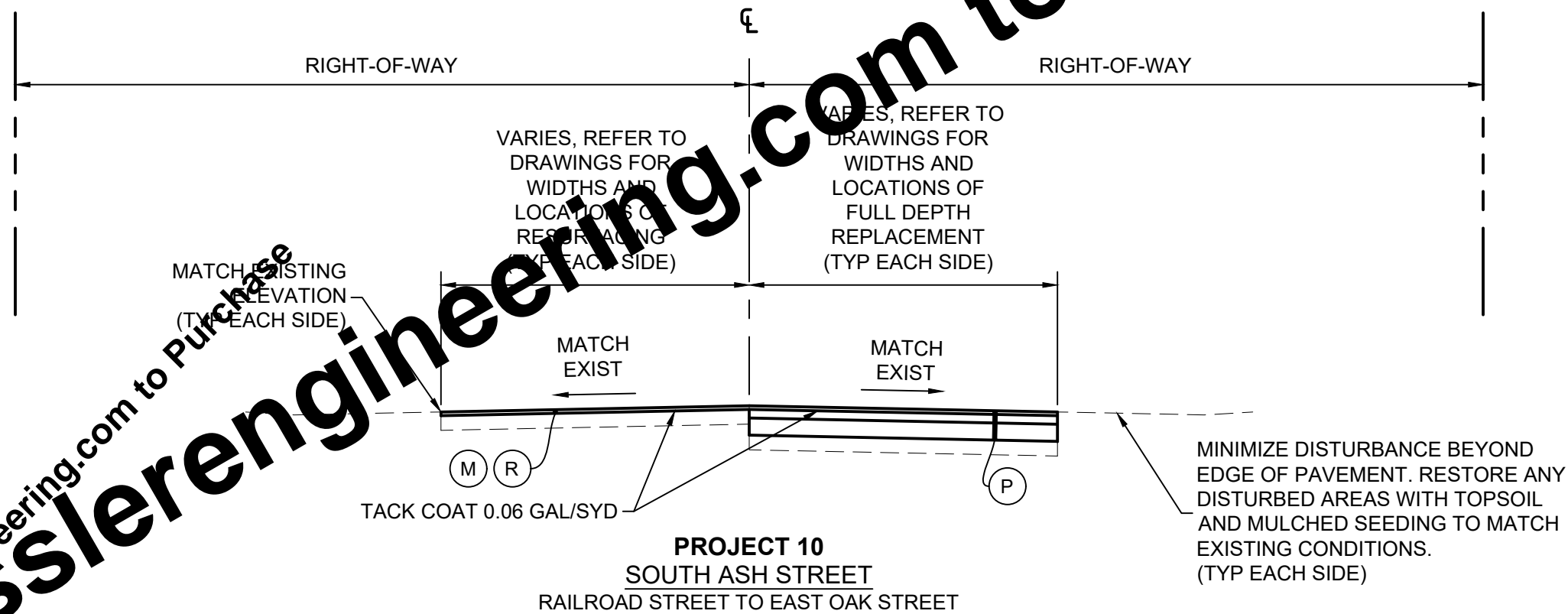
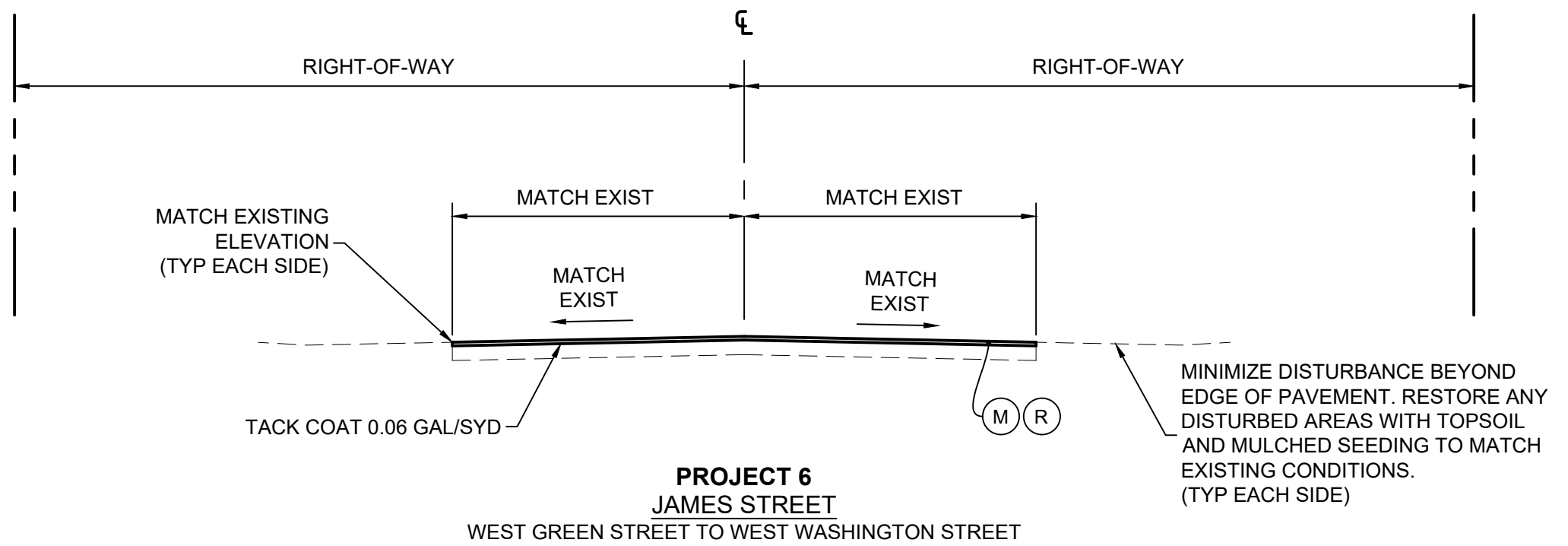
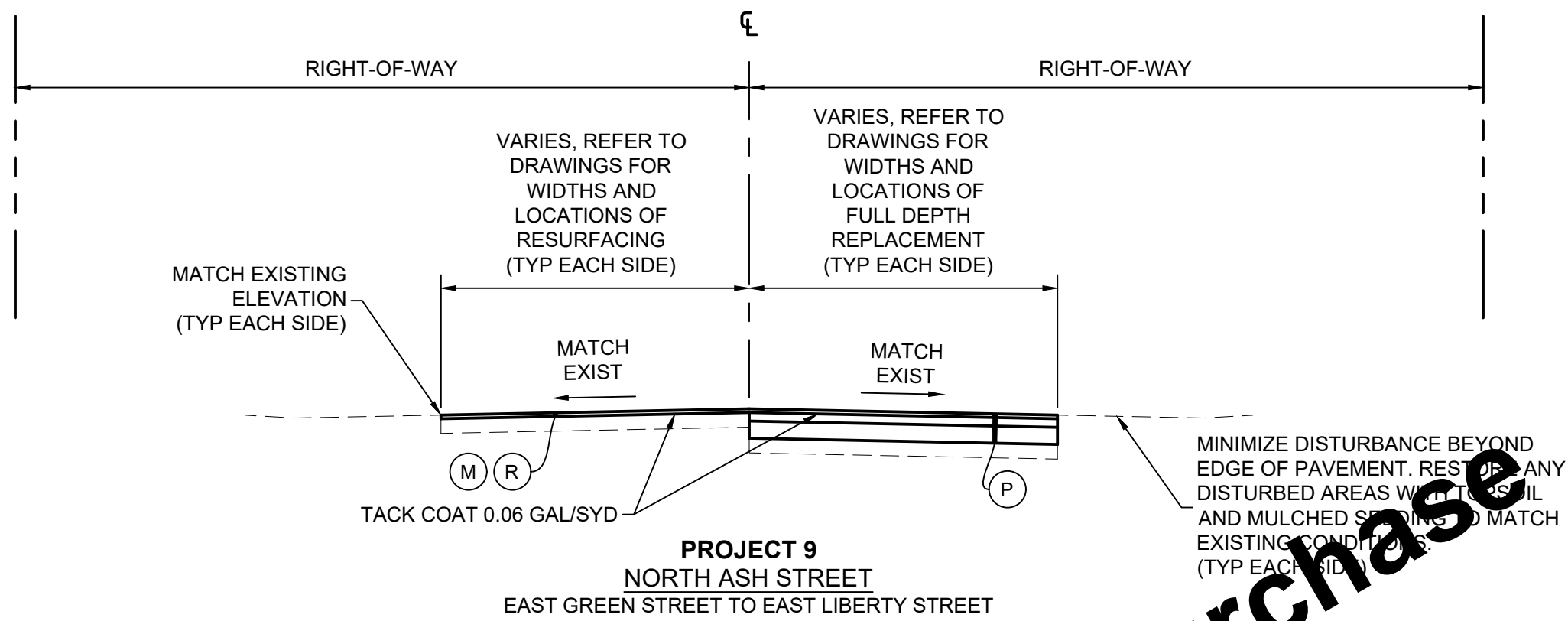
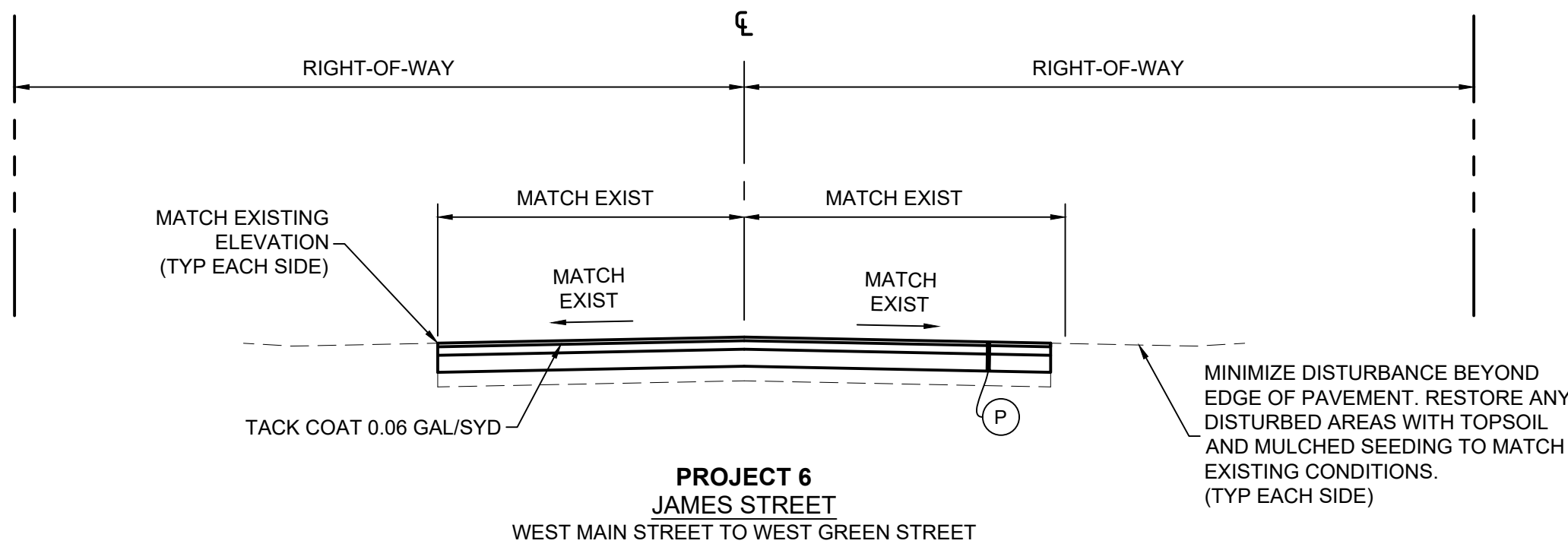
- (M) (R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
- (P) SAWCUT & REMOVE EXISTING PAVEMENT, 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
- (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15

SCALE VERIFICATION	DRAWN BY	DMG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLL				
	APPROVED BY	JRF				
	ISSUE DATE					
	JANUARY 2024					
	PROJECT NUMBER					
		265123-04-001				



2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA
TYPICAL SECTIONS

SHEET NO.
04
TOTAL SHEETS
21




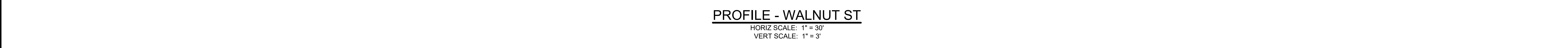
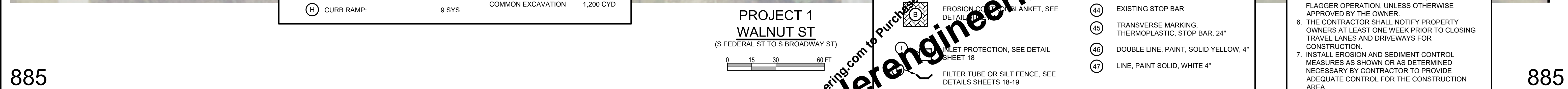
- NOTES:**
- ALL WORK SHALL BE DONE WITHIN EXISTING CITY RIGHT-OF-WAY. NO WORK WITHIN INDOT RIGHT-OF-WAY.
 - ASPHALT MILLING SHALL BE 1.5" BELOW THE EXISTING GRADE. THE EXISTING PAVEMENT SHALL BE CUT TO PROVIDE A VERTICAL FACE OF 1.5" FOR THE TERMINI OF THE NEW SURFACE.

- LEGEND:**
- (M) (R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
 - (P) SAWCUT & REMOVE EXISTING PAVEMENT, 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
 - (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15

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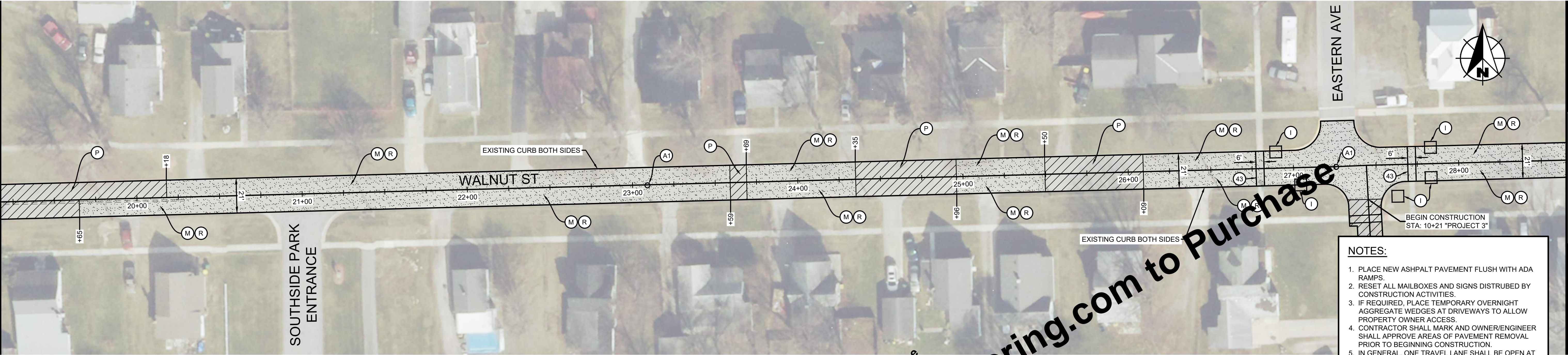
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SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div></div>	DRAWN BY	DMG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	 <div><div>W</div><div>WESSLER</div><div>ENGINEERING</div><div>More than a Project™</div></div>	2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS			SHEET NO.
	CHECKED BY	JLL						BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA			05
	APPROVED BY	JRF						TYPICAL SECTIONS			TOTAL SHEETS
	ISSUE DATE										21
	JANUARY 2024										
	PROJECT NUMBER										
265123-04-001											



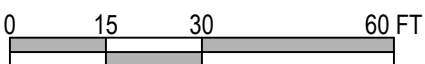
SHEET NO.	06
TOTAL SHEETS	21

MATCHLINE SEE SHEET NO. 6



MATCHLINE - SEE VIEW BELOW

PROJECT 1
WALNUT ST
(S FEDERAL ST TO S BROADWAY ST)

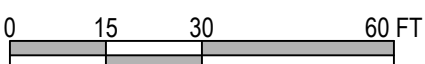


- NOTES:**
1. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
 2. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
 3. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
 4. CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
 5. IN GENERAL, ONE TRAVEL LANE SHALL BE OPEN AT ALL TIMES DURING CONSTRUCTION, UTILIZING THE FLAGGER OPERATION, UNLESS OTHERWISE APPROVED BY THE OWNER.
 6. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE WEEK PRIOR TO CLOSING TRAVEL LANES AND DRIVEWAYS FOR CONSTRUCTION.
 7. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.

MATCHLINE SEE VIEW ABOVE



PROJECT 1
WALNUT ST
(S FEDERAL ST TO S BROADWAY ST)



- LEGEND:**
- (M R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
 - (P) SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION), 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
 - (B) EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
 - (I) INLET PROTECTION, SEE DETAIL SHEET 18
 - (F) FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
 - (H) CURB RAMP, CONCRETE
 - (A1) EXISTING UTILITY CASTING. ADJUST TO GRADE AS DETERMINED IN FIELD.
 - (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
 - (16) CURB OPENING, SEE DETAIL SHEET 15
 - (43) LINE, PAINT, SOLID, WHITE, 6"
 - (44) EXISTING STOP BAR
 - (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
 - (46) DOUBLE LINE, PAINT, SOLID YELLOW, 4"
 - (47) LINE, PAINT SOLID, WHITE 4"
 - (48) LINE, PAINT, SOLID, BLUE 4"
 - (49) ADA SYMBOL, SEE DETAIL SHEET NO. 15 (TO BE PAID AS 20 LFT OF 4" BLUE PAINT)

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	APPROVED BY	JRF				
	ISSUE DATE					
	JANUARY 2024					
	PROJECT NUMBER					
		265123-04-001				



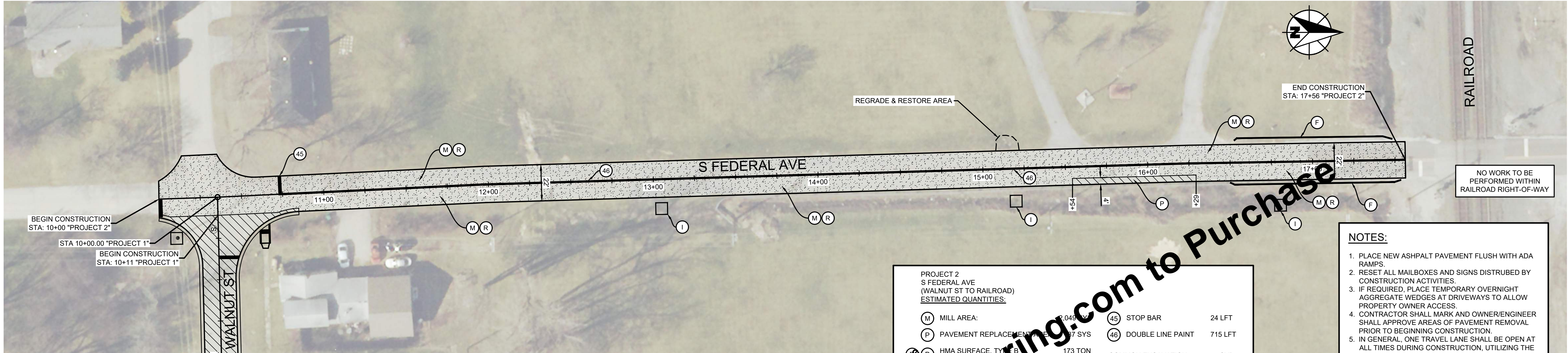
2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS

BOARD OF PUBLIC WORKS AND SAFETY
CITY OF BUTLER INDIANA

ROADWAY IMPROVEMENT PLANS

SHEET NO.
07

TOTAL SHEETS
21



PROJECT 2
S FEDERAL AVE
(WALNUT ST TO RAILROAD)
0 15 30 60 FT

PROJECT 2 S FEDERAL AVE (WALNUT ST TO RAILROAD) <u>ESTIMATED QUANTITIES:</u>				
(M)	MILL AREA:	2,049 SY	(45) STOP BAR	24 LFT
(P)	PAVEMENT REPLACEMENT AREA	1,337 SYS	(46) DOUBLE LINE PAINT	715 LFT
(P)	HMA SURFACE, TYPE B	173 TON	COMMON EXCAVATION	12 CYD
(P)	HMA INTERMEDIATE, TYPE B	7 TON		

- NOTES:
- PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
 - RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
 - IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
 - CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
 - IN GENERAL, ONE TRAVEL LANE SHALL BE OPEN AT ALL TIMES DURING CONSTRUCTION, UTILIZING THE FLAGGER OPERATION, UNLESS OTHERWISE APPROVED BY THE OWNER.
 - THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE WEEK PRIOR TO CLOSING TRAVEL LANES AND DRIVEWAYS FOR CONSTRUCTION.
 - INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.



PROJECT 3
EASTERN AVE
(WALNUT ST TO HICKORY ST)
0 15 30 60 FT

PROJECT 3 EASTERN AVE (WALNUT ST TO HICKORY ST) <u>ESTIMATED QUANTITIES:</u>				
(M)	MILL AREA:	0 SYS	(43) 6" LINE PAINT	44 LFT
(P)	PAVEMENT REPLACEMENT AREA	590 SYS	COMMON EXCAVATION	197 CYD
(R) (P)	HMA SURFACE, TYPE B	49 TON		
	HMA INTERMEDIATE, TYPE B	114 TON		

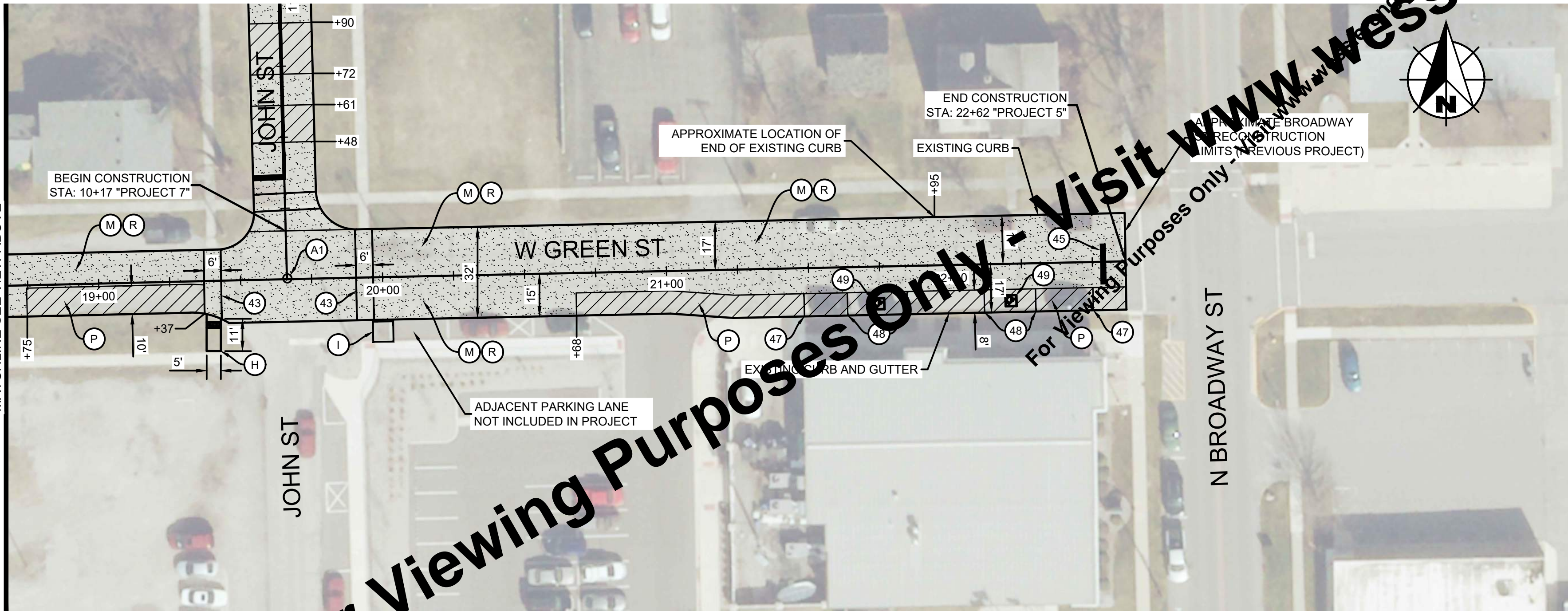
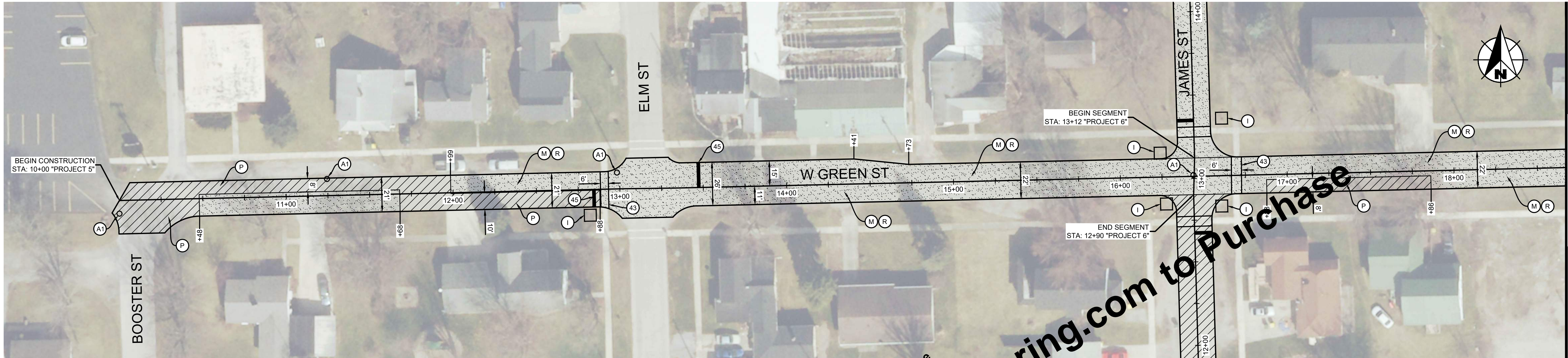
- LEGEND:
- (M R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
 - (P) SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION), 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
 - (B) EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
 - (I) INLET PROTECTION, SEE DETAIL SHEET 18
 - (F) FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
 - (H) CURB RAMP, CONCRETE
 - (A1) EXISTING UTILITY CASTING. ADJUST TO GRADE AS DETERMINED IN FIELD.
 - (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
 - (16) CURB OPENING, SEE DETAIL SHEET 15
 - (43) LINE, PAINT, SOLID, WHITE, 6"
 - (44) EXISTING STOP BAR
 - (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
 - (46) DOUBLE LINE, PAINT, SOLID YELLOW, 4"
 - (47) LINE, PAINT SOLID, WHITE 4"
 - (48) LINE, PAINT, SOLID, BLUE 4"
 - (49) ADA SYMBOL, SEE DETAIL SHEET NO. 15 (TO BE PAID AS 20 LFT OF 4" BLUE PAINT)

SCALE VERIFICATION	DRAWN BY	DMG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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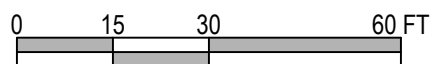


2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS	
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA	
ROADWAY IMPROVEMENT PLANS	

SHEET NO.	08
TOTAL SHEETS	21



PROJECT 5
W GREEN ST
(BOOSTER ST TO N BROADWAY ST)



PROJECT 5 W GREEN ST (BOOSTER ST TO N BROADWAY ST) ESTIMATED QUANTITIES:			
(M)	MILL AREA:	3,109 SYS	(43) 6" LINE PAINT: 171 LFT
(P)	PAVEMENT REPLACEMENT AREA	832 SYS	(45) STOP BAR: 33 LFT
(R)	HMA SURFACE, TYPE B	327 TON	(47)(48)(49) 4" LINE PAINT: 53 LFT
(P)	HMA INTERMEDIATE, TYPE B	160 TON	
(H)	CURB RAMP:	8 SYS	COMMON EXCAVATION 277 CYD

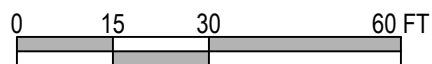
NOTES:

- PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
- RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
- IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
- CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
- IN GENERAL, ONE TRAVEL LANE SHALL BE OPEN AT ALL TIMES DURING CONSTRUCTION, UTILIZING THE FLAGGER OPERATION, UNLESS OTHERWISE APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE WEEK PRIOR TO CLOSING TRAVEL LANES AND DRIVEWAYS FOR CONSTRUCTION.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.

LEGEND:

- (M R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
- (P) SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION). 165 LB/SYD HMA SURFACE, TYPE B, ON 365 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
- (B) EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
- (I) INLET PROTECTION, SEE DETAIL SHEET 18
- (F) FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
- (H) CURB RAMP, CONCRETE
- (A1) EXISTING UTILITY CASTING. ADJUST TO GRADE AS DETERMINED IN FIELD.
- (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
- (16) CURB OPENING, SEE DETAIL SHEET 15
- (43) LINE, PAINT, SOLID, WHITE, 6"
- (44) EXISTING STOP BAR
- (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
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- (48) LINE, PAINT, SOLID, BLUE 4"
- (49) ADA SYMBOL, SEE DETAIL SHEET NO. 15 (TO BE PAID AS 20 LFT OF 4" BLUE PAINT)

PROJECT 5
W GREEN ST
(BOOSTER ST TO N BROADWAY ST)



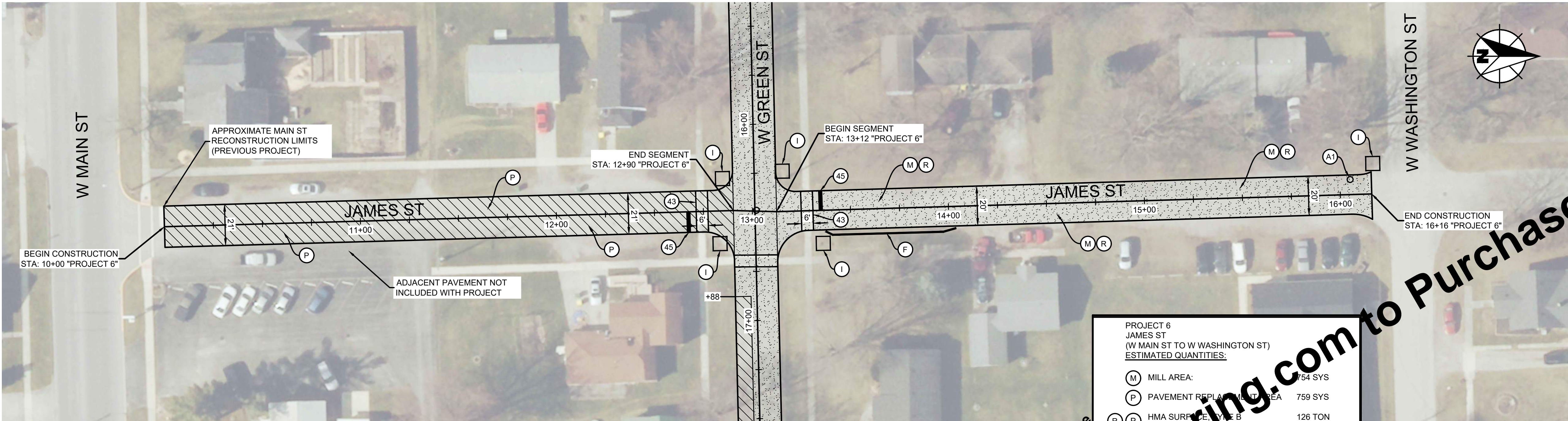
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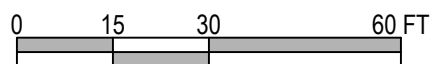


2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA
ROADWAY IMPROVEMENT PLANS

SHEET NO.
10
TOTAL SHEETS
21



PROJECT 6
JAMES ST
(W MAIN ST TO W WASHINGTON ST)



PROJECT 6 JAMES ST (W MAIN ST TO W WASHINGTON ST) ESTIMATED QUANTITIES:			
(M)	MILL AREA:	754	SYS
(P)	PAVEMENT REPLACEMENT AREA	759	SYS
(R)(P)	HMA SURFACE, TYPE B	126	TON
(R)(P)	HMA INTERMEDIATE, TYPE B	146	TON
(43)	LINE PAINT	90	LFT
(46)	COMMON EXCAVATION	253	CYD

NOTES:

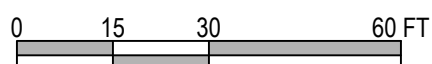
1. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
2. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
3. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
4. CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
5. IN GENERAL, ONE TRAVEL LANE SHALL BE OPEN AT ALL TIMES DURING CONSTRUCTION, UTILIZING THE FLAGGER OPERATION, UNLESS OTHERWISE APPROVED BY THE OWNER.
6. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE WEEK PRIOR TO CLOSING TRAVEL LANES AND DRIVEWAYS FOR CONSTRUCTION.
7. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.

LEGEND:

- (M)(R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
- (P) SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION), 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
- (B) EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
- (I) INLET PROTECTION, SEE DETAIL SHEET 18
- (F) FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
- (H) CURB RAMP, CONCRETE
- (A1) EXISTING UTILITY CASTING. ADJUST TO GRADE AS DETERMINED IN FIELD.
- (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
- (16) CURB OPENING, SEE DETAIL SHEET 15
- (43) LINE, PAINT, SOLID, WHITE, 6"
- (44) EXISTING STOP BAR
- (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
- (46) DOUBLE LINE, PAINT, SOLID YELLOW, 4"
- (47) LINE, PAINT SOLID, WHITE 4"
- (48) LINE, PAINT, SOLID, BLUE 4"
- (49) ADA SYMBOL, SEE DETAIL SHEET NO. 15 (TO BE PAID AS 20 LFT OF 4" BLUE PAINT)



PROJECT 7
JOHN ST
(W GREEN ST TO W LIBERTY ST)



PROJECT 7 JOHN ST (W GREEN ST TO W LIBERTY ST) ESTIMATED QUANTITIES:			
(M)	MILL AREA:	1,456	SYS
(P)	PAVEMENT REPLACEMENT AREA	527	SYS
(R)(P)	HMA SURFACE, TYPE B	165	TON
(R)(P)	HMA INTERMEDIATE, TYPE B	102	TON
(43)	6" LINE PAINT	98	LFT
(45)	STOP BAR	12	LFT
(46)	4" DOUBLE LINE PAINT	612	LFT
(46)	COMMON EXCAVATION	176	CYD

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	PROJECT NUMBER					
	265123-04-001					



2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS

BOARD OF PUBLIC WORKS AND SAFETY
CITY OF BUTLER INDIANA

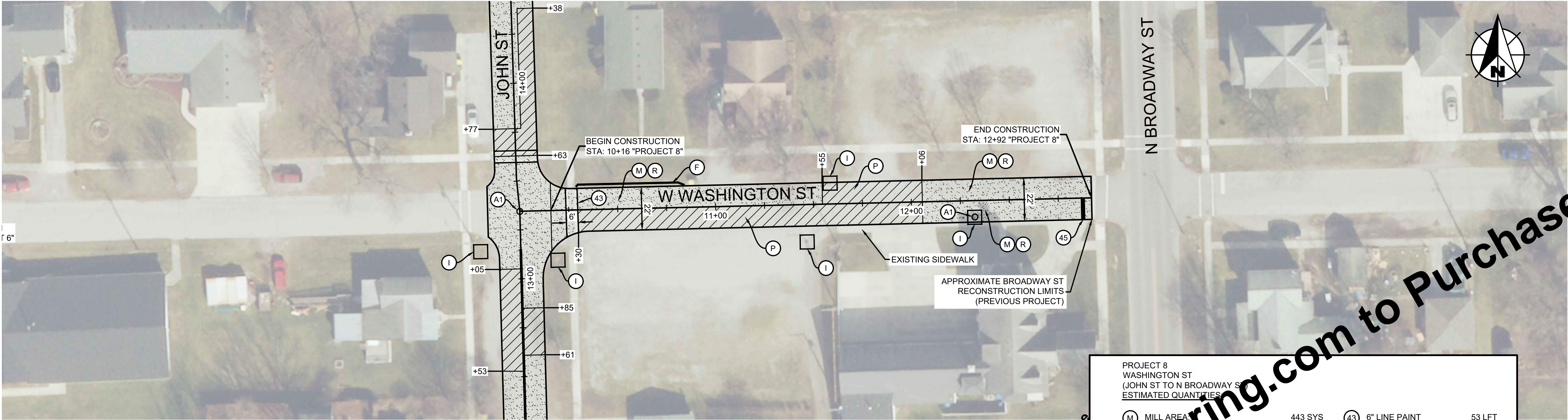
ROADWAY IMPROVEMENT PLANS

SHEET NO.

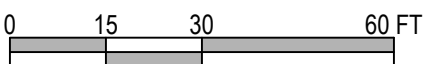
11

TOTAL SHEETS

21



PROJECT 8
W WASHINGTON ST
(JOHN ST TO N BROADWAY ST)

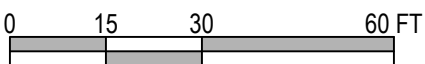


PROJECT 8 WASHINGTON ST (JOHN ST TO N BROADWAY ST) ESTIMATED QUANTITIES			
(M)	MILL AREA	443 SYS	(43) 6" LINE PAINT 53 LFT
(P)	PAVEMENT REPLACEMENT AREA	309 SYS	(45) STOP BAR 12 LFT
(R)	HMA SURFACE, TYPE B	62 TON	COMMON EXCAVATION 103 CYD
(P)	HMA INTERMEDIATE, TYPE B	60 TON	

- NOTES:
1. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
 2. RESET ALL MAILBOXES AND SIGNS DISTRUBED BY CONSTRUCTION ACTIVITIES.
 3. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
 4. CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
 5. IN GENERAL, ONE TRAVEL LANE SHALL BE OPEN AT ALL TIMES DURING CONSTRUCTION, UTILIZING THE FLAGGER OPERATION, UNLESS OTHERWISE APPROVED BY THE OWNER.
 6. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AT LEAST ONE WEEK PRIOR TO CLOSING TRAVEL LANES AND DRIVEWAYS FOR CONSTRUCTION.
 7. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.



PROJECT 9
N ASH ST
(E GREEN ST TO E LIBERTY ST)






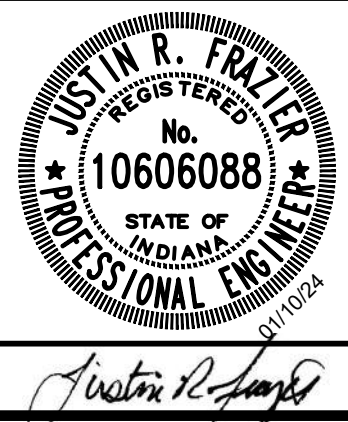
PROJECT 9 N ASH ST (E GREEN ST TO E LIBERTY ST) ESTIMATED QUANTITIES			
(M)	MILL AREA:	1,724 SYS	(43) 6" LINE PAINT 47 LFT
(P)	PAVEMENT REPLACEMENT AREA	153 SYS	(45) STOP BAR 12 LFT
(R)	HMA SURFACE, TYPE B	156 TON	COMMON EXCAVATION 51 CYD
(P)	HMA INTERMEDIATE, TYPE B	30 TON	

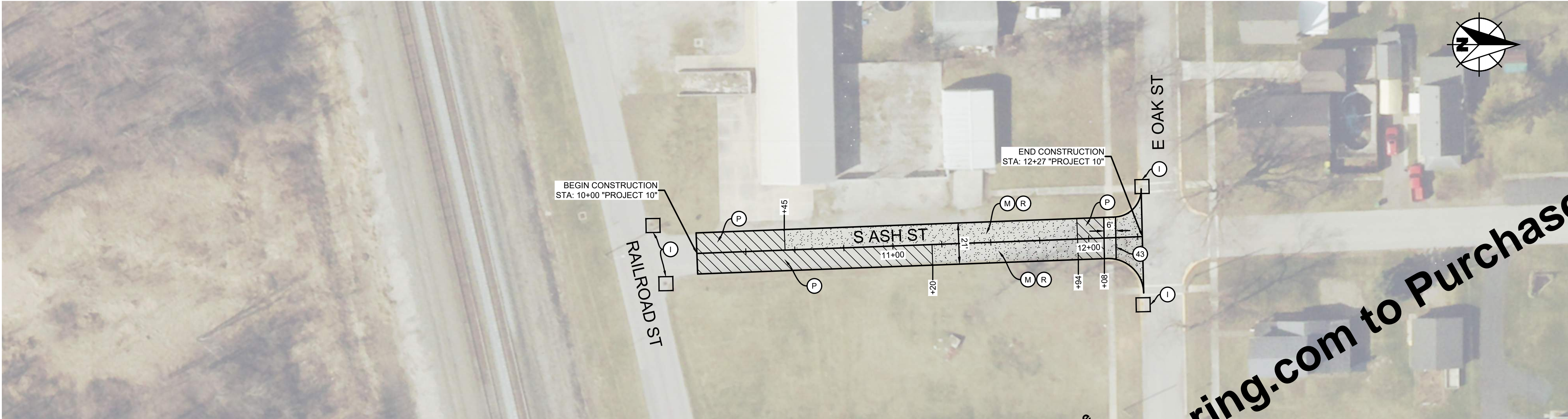
- LEGEND:
- (M R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
 - (P) SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION), 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
 - (B) EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
 - (I) INLET PROTECTION, SEE DETAIL SHEET 18
 - (F) FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
 - (H) CURB RAMP, CONCRETE
 - (A1) EXISTING UTILITY CASTING. ADJUST TO GRADE AS DETERMINED IN FIELD.
 - (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
 - (16) CURB OPENING, SEE DETAIL SHEET 15
 - (43) LINE, PAINT, SOLID, WHITE, 6"
 - (44) EXISTING STOP BAR
 - (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
 - (46) DOUBLE LINE, PAINT, SOLID YELLOW, 4"
 - (47) LINE, PAINT SOLID, WHITE 4"
 - (48) LINE, PAINT, SOLID, BLUE 4"
 - (49) ADA SYMBOL, SEE DETAIL SHEET NO. 15 (TO BE PAID AS 20 LFT OF 4" BLUE PAINT)

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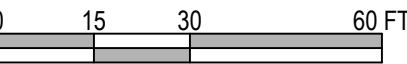


- NOTES:**
1. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMP.
 2. RESET ALL MAILBOXES AND SIGNS DISTRUBED BY CONSTRUCTION ACTIVITIES.
 3. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
 4. CONTRACTOR SHALL MARK AND OWNER/ENGINEER SHALL APPROVE AREAS OF PAVEMENT REMOVAL PRIOR TO BEGINNING CONSTRUCTION.
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PROJECT 10

SASH ST

(RAILROAD ST TO E OAK ST)



PROJECT 10
SASH ST
(RAILROAD ST TO E OAK ST)

ESTIMATED QUANTITIES:

(M)	MILL AREA:	348 SYS	(43)	6" LINE PAINT	47 LFT
(P)	PAVEMENT REPLACEMENT AREA	251 SYS		COMMON EXCAVATION	84 CYD
(R)	HMA SURFACE, TYPE B	50 TON			
(P)	HMA INTERMEDIATE, TYPE B	48 TON			

- LEGEND:**
- (M R) 165 LB/ SYD HMA SURFACE, TYPE B, ON 1.5" ASPHALT MILLING
 - (P) SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION), 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
 - (B) EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
 - (I) INLET PROTECTION, SEE DETAIL SHEET 18
 - (F) FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
 - (H) CURB RAMP, CONCRETE
 - (A1) EXISTING UTILITY CASTING. ADJUST TO GRADE AS DETERMINED IN FIELD.
 - (15) CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
 - (16) CURB OPENING, SEE DETAIL SHEET 15
 - (43) LINE, PAINT, SOLID, WHITE, 6"
 - (44) EXISTING STOP BAR
 - (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
 - (46) DOUBLE LINE, PAINT, SOLID YELLOW, 4"
 - (47) LINE, PAINT SOLID, WHITE 4"
 - (48) LINE, PAINT, SOLID, BLUE 4"
 - (49) ADA SYMBOL, SEE DETAIL SHEET NO. 15 (TO BE PAID AS 20 LFT OF 4" BLUE PAINT)

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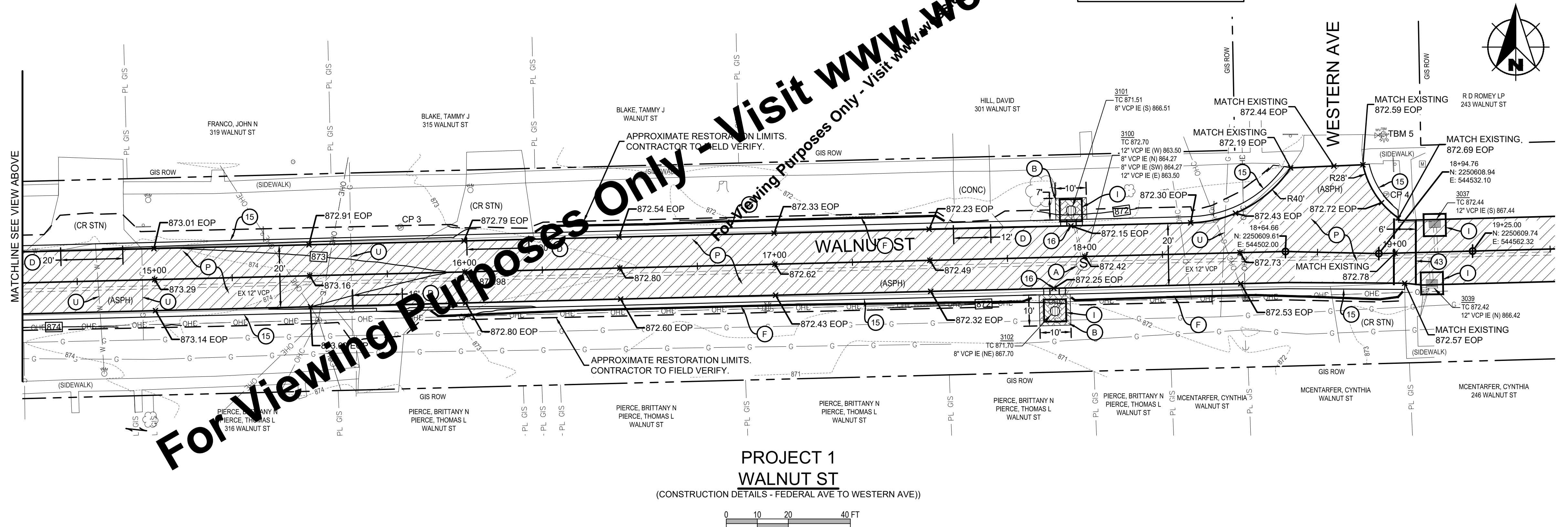
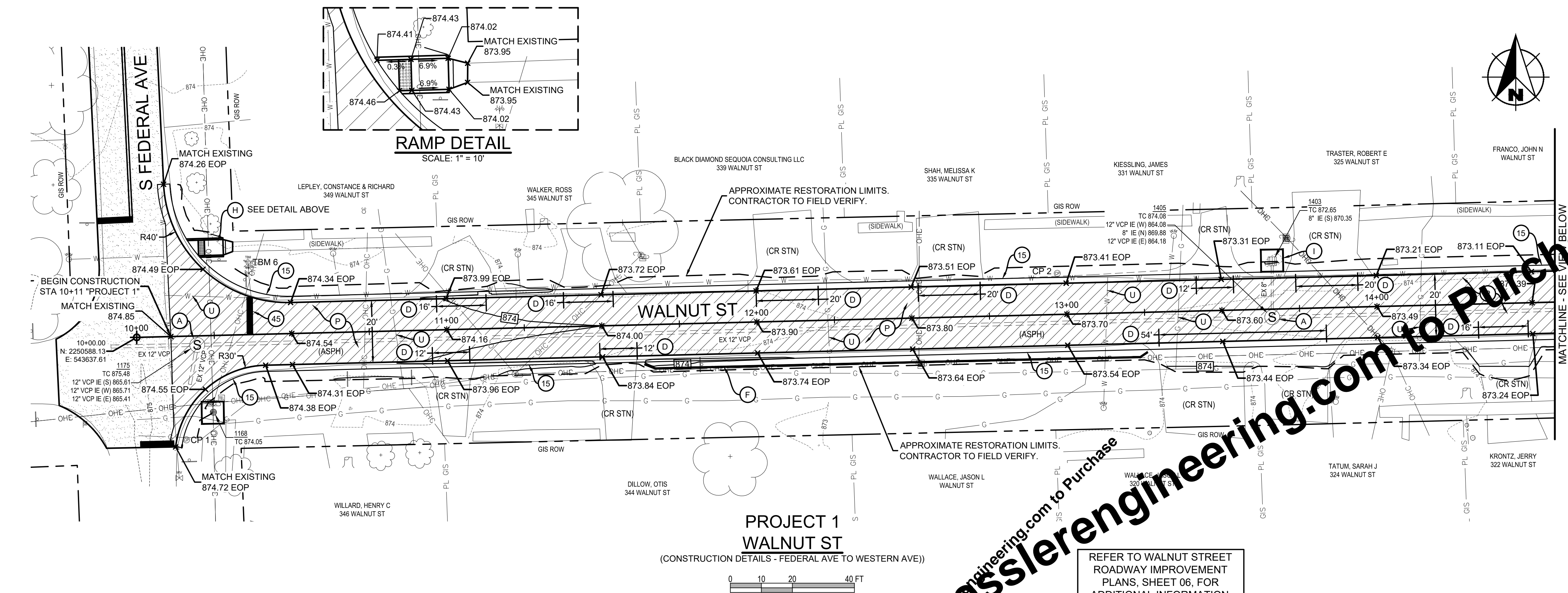
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BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA
ROADWAY IMPROVEMENT PLANS

SHEET NO.
13
TOTAL SHEETS
21

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NOTES:

1. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
2. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
3. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
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7. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.

LEGEND:

- SAWCUT & REMOVE EXISTING PAVEMENT (PAVEMENT REMOVAL TO BE PAID AS COMMON EXCAVATION), 165 LB/SYD HMA SURFACE, TYPE B, ON 385 LB/SYD HMA INTERMEDIATE, TYPE B, ON 7" COMPACTED AGGREGATE BASE, NO. 53
- EROSION CONTROL BLANKET, SEE DETAIL SHEET 18
- INLET PROTECTION, SEE DETAIL SHEET 18
- FILTER TUBE OR SILT FENCE, SEE DETAILS SHEETS 18-19
- CURB RAMP, CONCRETE
- EXISTING UTILITY CASTING. ADJUST TO GRADE.
- DEPRESSED CURB THROUGH DRIVEWAY (SEE DETAIL SHEET 15). TRANSITION FROM ROLLED CURB TO DEPRESSED CURB OVER 5 FEET. RESTORE DRIVEWAY. OWNER TO FIELD VERIFY LOCATIONS AND WIDTHS OF DEPRESSED CURB.
- EXISTING UNDERGROUND UTILITY. DETERMINE LOCATION AND ELEVATION IN FIELD. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
- CURB AND GUTTER, CONCRETE, SEE DETAIL SHEET 15
- CURB OPENING, SEE DETAIL SHEET 15
- LINE, PAINT, SOLID, WHITE, 6"
- TRANSVERSE MARKING, THERMOPLASTIC, STOP BAR, 24"
- XXX.XX PROPOSED GRADE CENTERLINE
- XXX.XX EOP PROPOSED GRADE EDGE OF PAVEMENT

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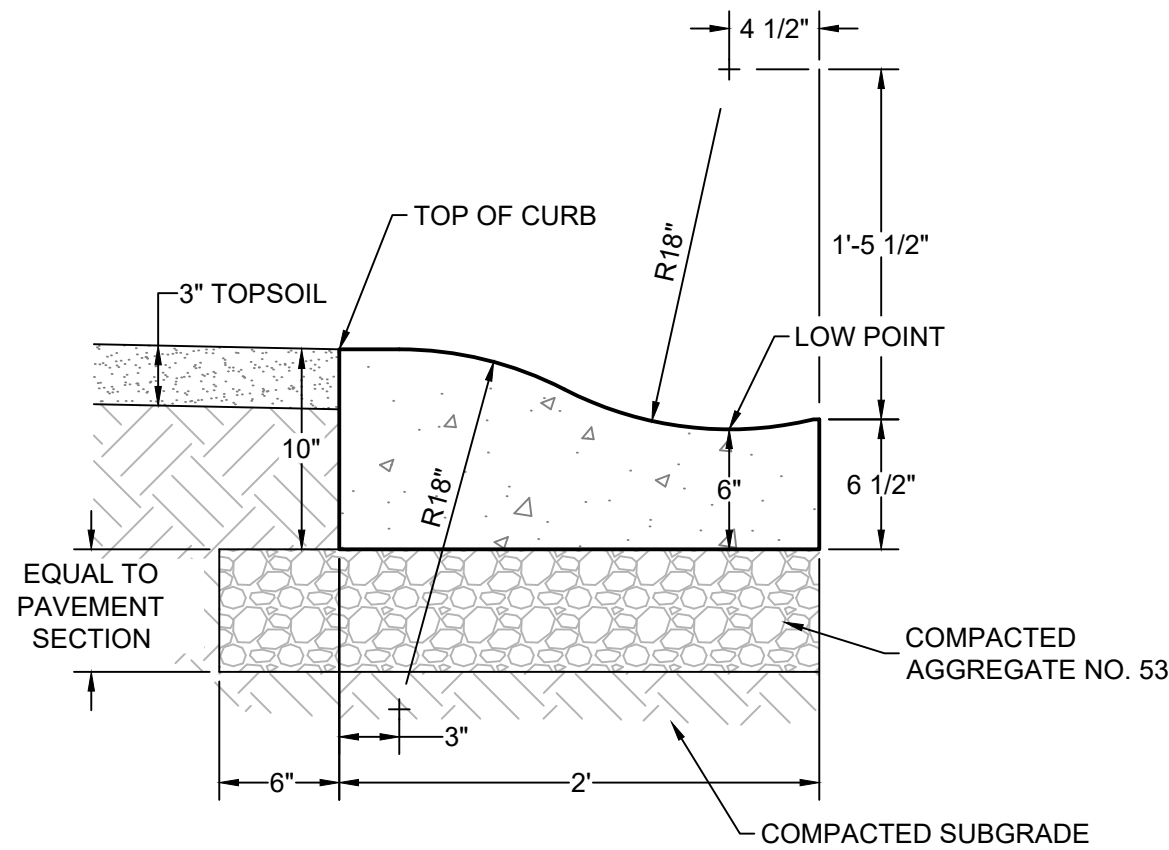
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	APPROVED BY	JRF				
	ISSUE DATE					
	JANUARY 2024					
	PROJECT NUMBER					
		265123-04-001				

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2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS
BOARD OF PUBLIC WORKS AND SAFETY
CITY OF BUTLER INDIANA
CONSTRUCTION DETAILS - WALNUT ST

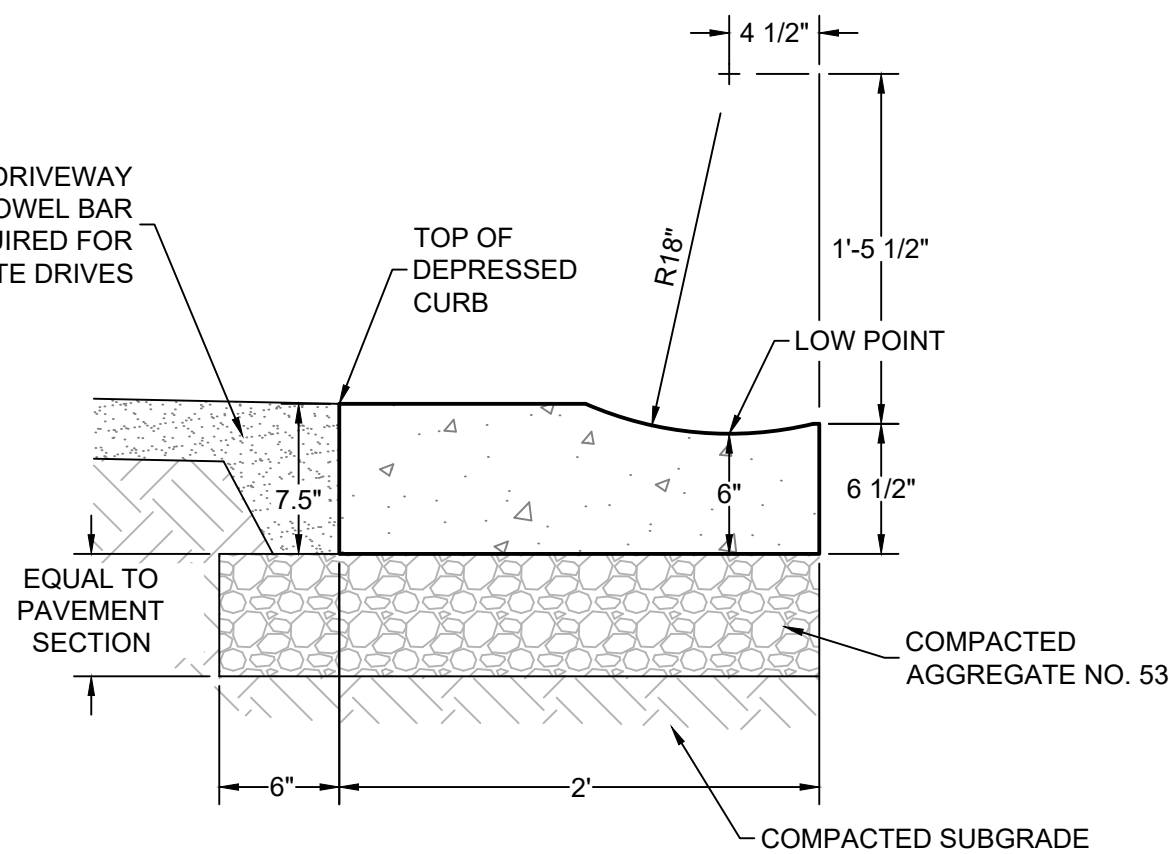
SHEET NO.
14

TOTAL SHEETS
21



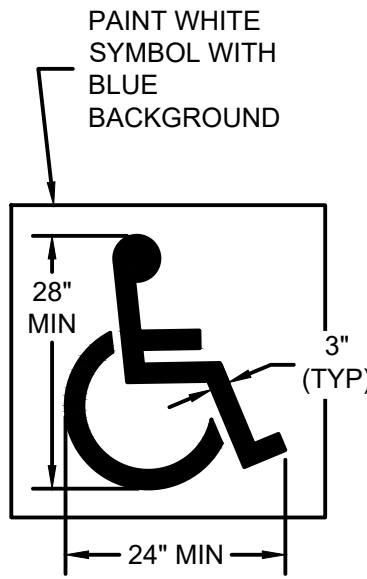
NOTES:
1. REFER TO SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION REQUIREMENTS

CONCRETE CURB AND GUTTER
(2' ROLLED CURB)
SCALE: NONE

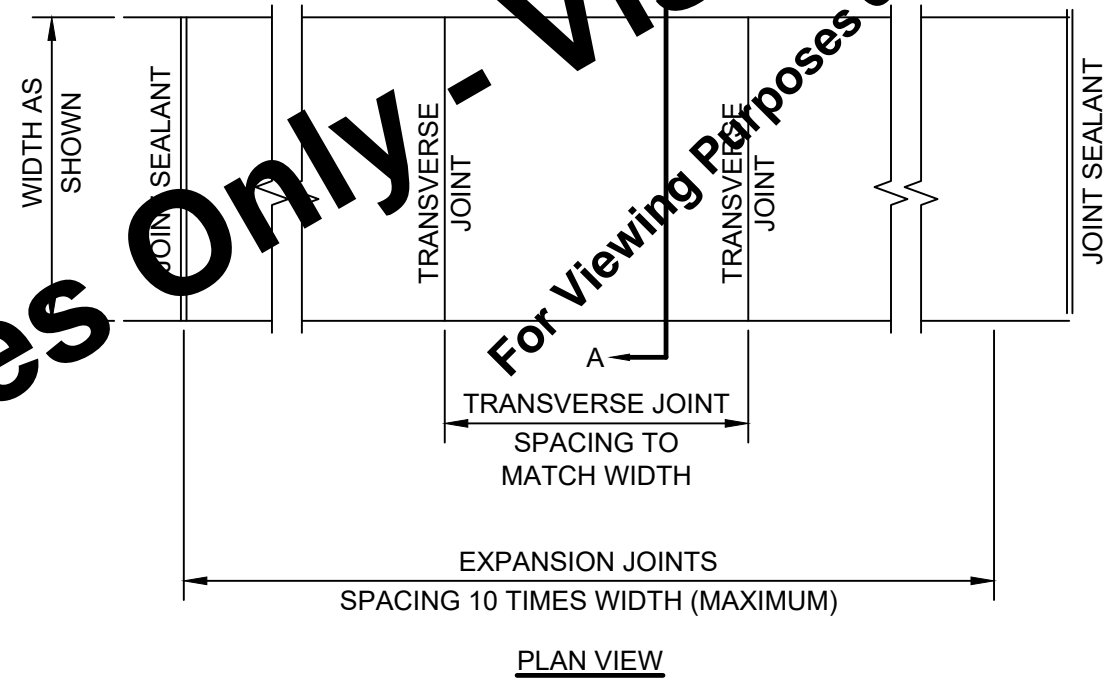
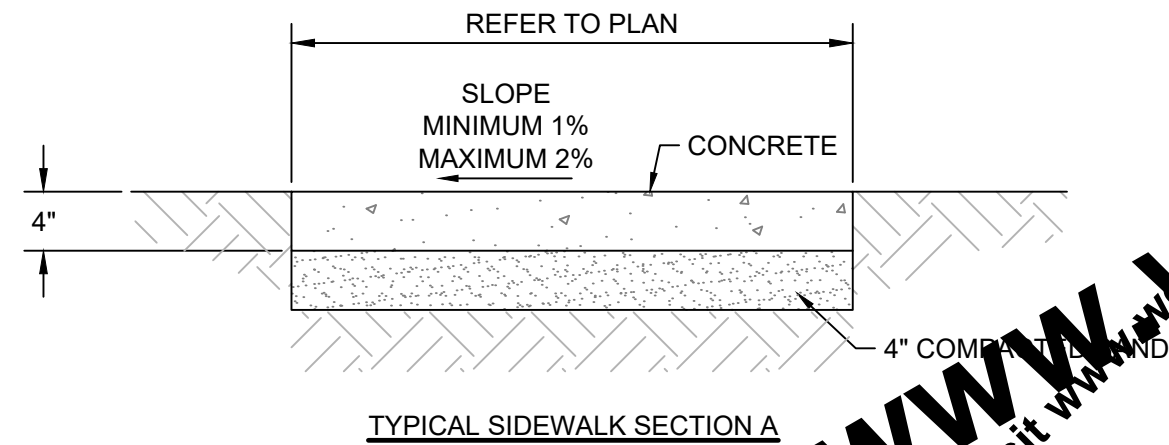


NOTES:
1. REFER TO SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION REQUIREMENTS

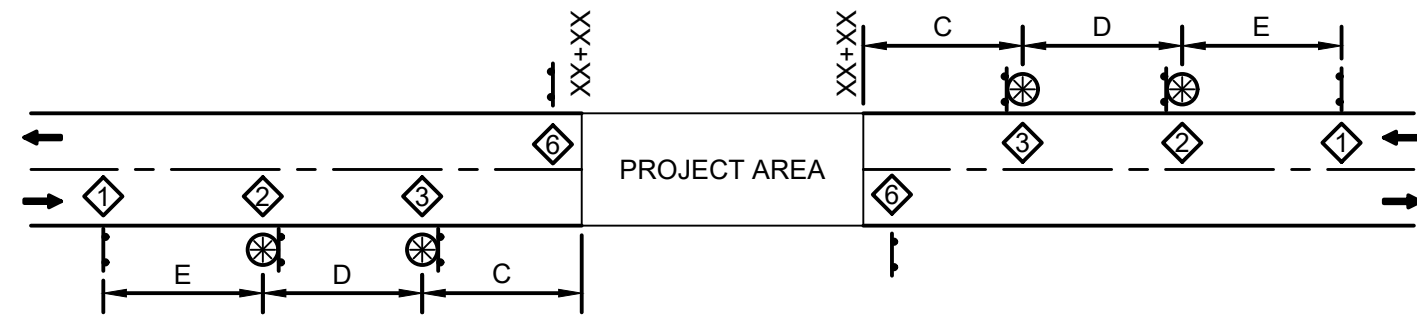
CONCRETE DEPRESSED CURB
SCALE: NONE



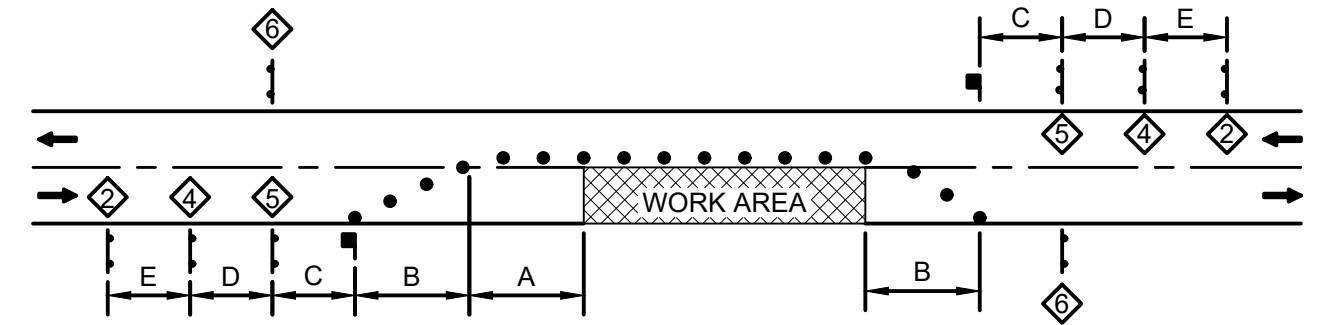
ACCESSIBLE PARKING SYMBOL
SCALE: NONE



CONCRETE SIDEWALK
SCALE: NONE



CONSTRUCTION SIGN PLACEMENT
SCALE: NONE

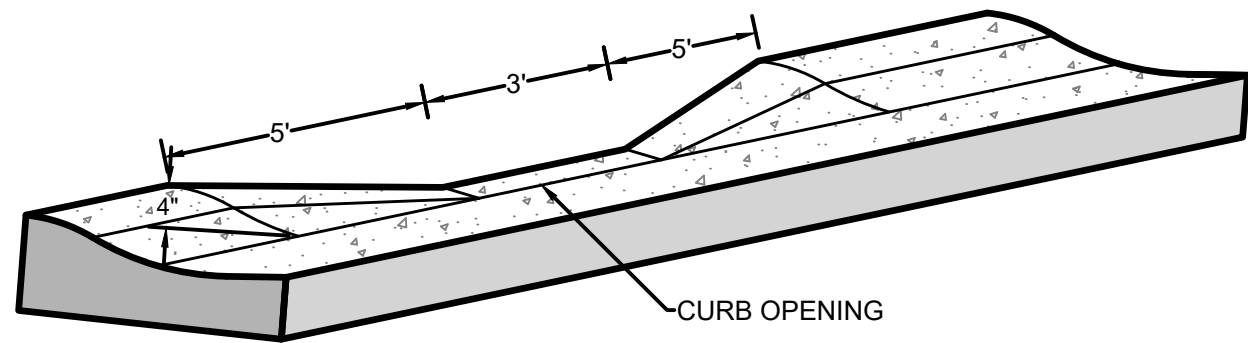


TEMPORARY FLAGGER OPERATION
SCALE: NONE

SPEED (MPH)	DISTANCE (FEET)				
	A	B	C	D	E
20 OR LESS	120	100	100	100	100
25	160	100	100	100	100
30	200	100	100	100	100
35	280	100	100	100	100
40	320	100	100	100	100
45	360	100	100	100	100
50	400	100	100	100	100
55	440	100	100	100	100
60	480	100	100	100	100
65	520	100	100	100	100
70	560	100	100	100	100

NOTES:
1. DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY.
2. THE SPACING OF CHANNELIZING DEVICES SHOULD BE A DISTANCE IN FEET EQUAL TO THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH USED FOR TANGENT CHANNELIZATION.

ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING
SCALE: NONE



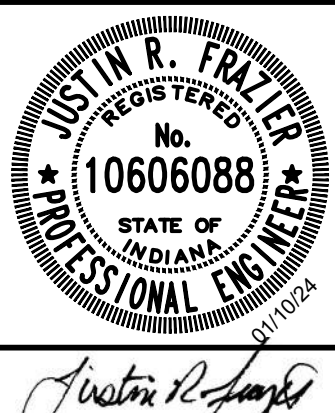
CURB OPENING
SCALE: NONE

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- NOT USED
- "ROAD WORK AHEAD" (W20-1) OR "UTILITY WORK AHEAD" (W21-7)
- "ROAD WORK - XXX FT" (W20-1)
- "ONE LANE ROAD AHEAD" (W20-4)
- FLAGGER SIGN (W20-7)
- "END ROAD WORK" (G20-2)
- BARRICADE TYPE IIIB
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- FLAGGER
- SIGN, FACING LEFT
- SIGN, FACING RIGHT

TRAFFIC CONTROL LEGEND
SCALE: NONE

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLL				
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	PROJECT NUMBER					
		265123-04-001				



2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA
MISCELLANEOUS DETAILS

SHEET NO.
15
TOTAL SHEETS
21

GENERAL NOTES:

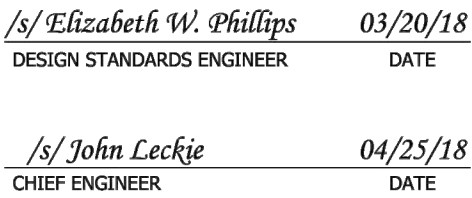
-
- The diagram illustrates the various components of a typical curb ramp. Key features labeled include:
- Width**: The overall width of the ramp area.
 - Turning Space**: The area at the top of the ramp where vehicles can turn.
 - Running Slope**: The slope of the ramp surface parallel to the direction of travel.
 - Cross Slope**: The slope of the ramp surface perpendicular to the running slope.
 - Ramp**: The main sloped section of the curb ramp.
 - Flared Side**: The side of the ramp that flares out towards the sidewalk.
 - Flare Slope**: The slope of the flared side.
 - Detectable Warning Surface**: A textured rectangular area at the base of the ramp.
 - Curb Flush with Pavement and Gutter Line**: The edge of the curb where it meets the street pavement.
 - Grade Break**: A change in the vertical alignment of the pavement.
 - Return Curb**: The curb on the opposite side of the ramp.
 - Barrier or other non-walkable surfaces**: Surfaces adjacent to the ramp that are not suitable for pedestrian walking.
 - Curb (Typ.)**: A standard curb profile.
 - Clear Space**: An unobstructed area at the bottom of the ramp.
 - Pedestrian Street Crossing**: The crossing point for pedestrians.
 - Crosswalk Markings**: Painted markings on the pavement indicating the crosswalk location.
 - Sidewalk or other walkable surface**: The surface adjacent to the ramp that is suitable for pedestrian walking.

TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION

SEPTEMBER 2018

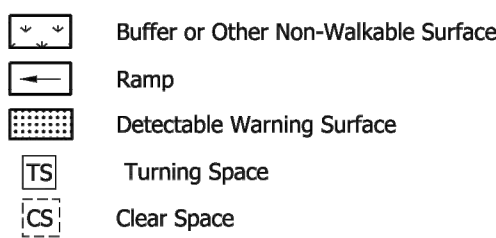
STANDARD DRAWING NO. E 604-SWCR-01



NOTES:

- ① Where insufficient width between the curb and back of sidewalk prevent a standard perpendicular curb ramp running slope, a sidewalk transition may be used to lower the sidewalk grade. The sidewalk transition running slope shall not exceed 8.33%. See Standard Drawing Series E 604-SDWK for sidewalk details.
2. The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

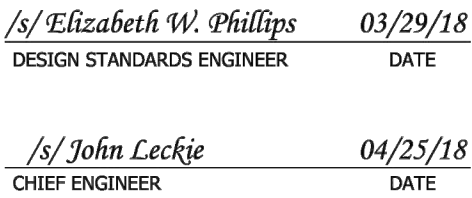
LEGEND:



INDIANA DEPARTMENT OF TRANSPORTATION

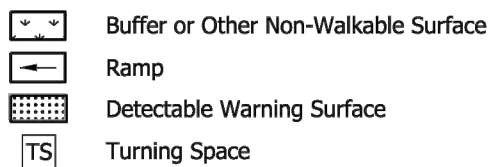
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-02



- 1 The bottom edge of the ramp and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- 2 The turning space shall have a minimum clear width of 10 ft x 4 ft. When the turning space is constrained by a curb, a concrete sidewalk, the minimum clear dimension shall be 8 ft, with the 6-ft dimension in the direction of the ramp and 2 ft slope, where a tiered perpendicular curb ramp is used, a constrained turning space shall have a minimum clear dimension of 5 ft x 5 ft.
- 3 Curb ramps shall be constructed of coarse broom finish transverse to the running slope.
- 4 See Standard Drawing E 604-SW-01 for cross slope exceptions.
- 5 See Standard Drawing E 604-SW-12C, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
- 6 See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

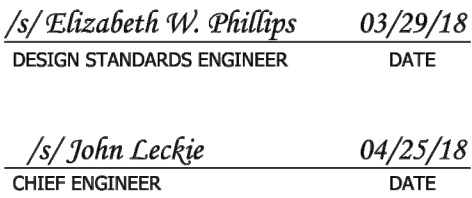
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SEPTEMBER 2018

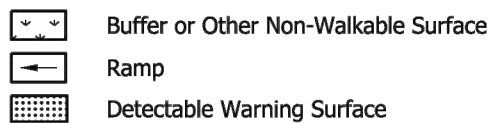
STANDARD DRAWING NO. E 604-SWCR-04



NOTES:

- ① A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
- ② Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

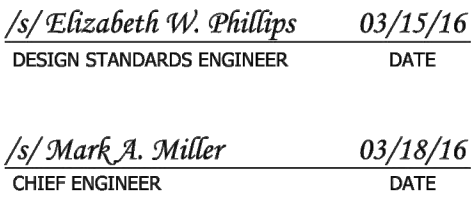
LEGEND:



INDIANA DEPARTMENT OF TRANSPORTATION

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-05



W
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CITY OF BUTLER INDIANA

MISCELLANEOUS DETAILS

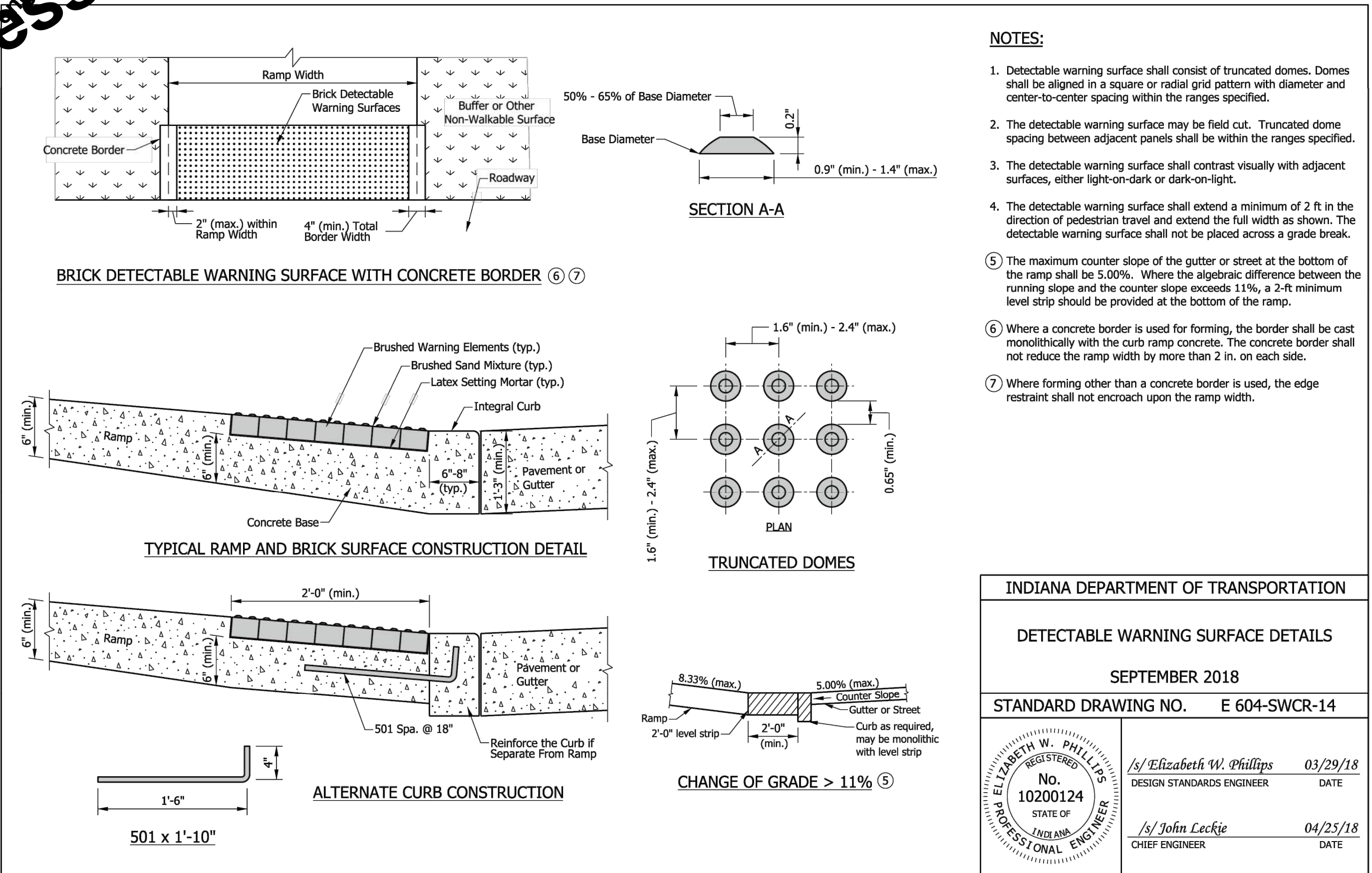
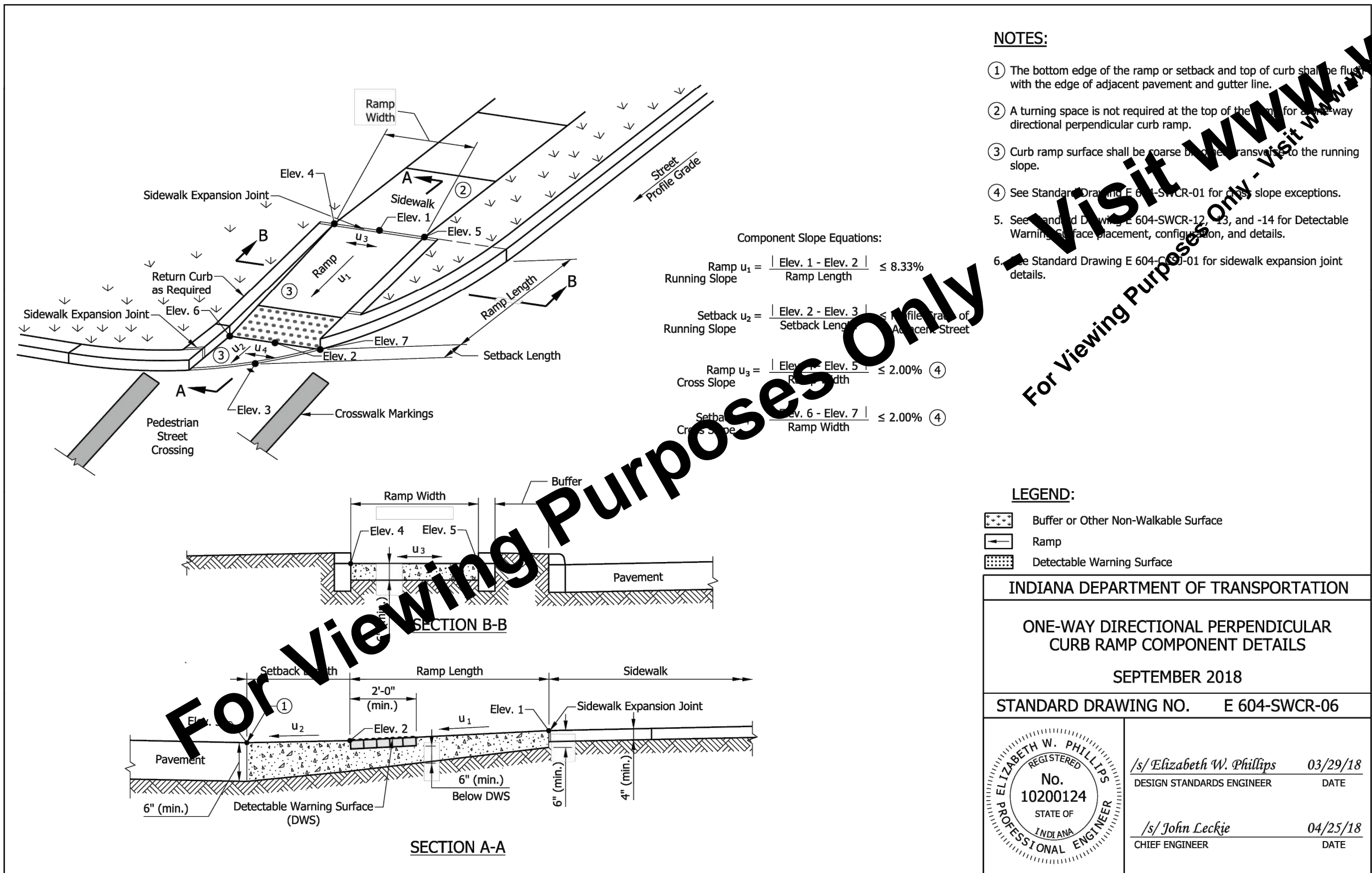
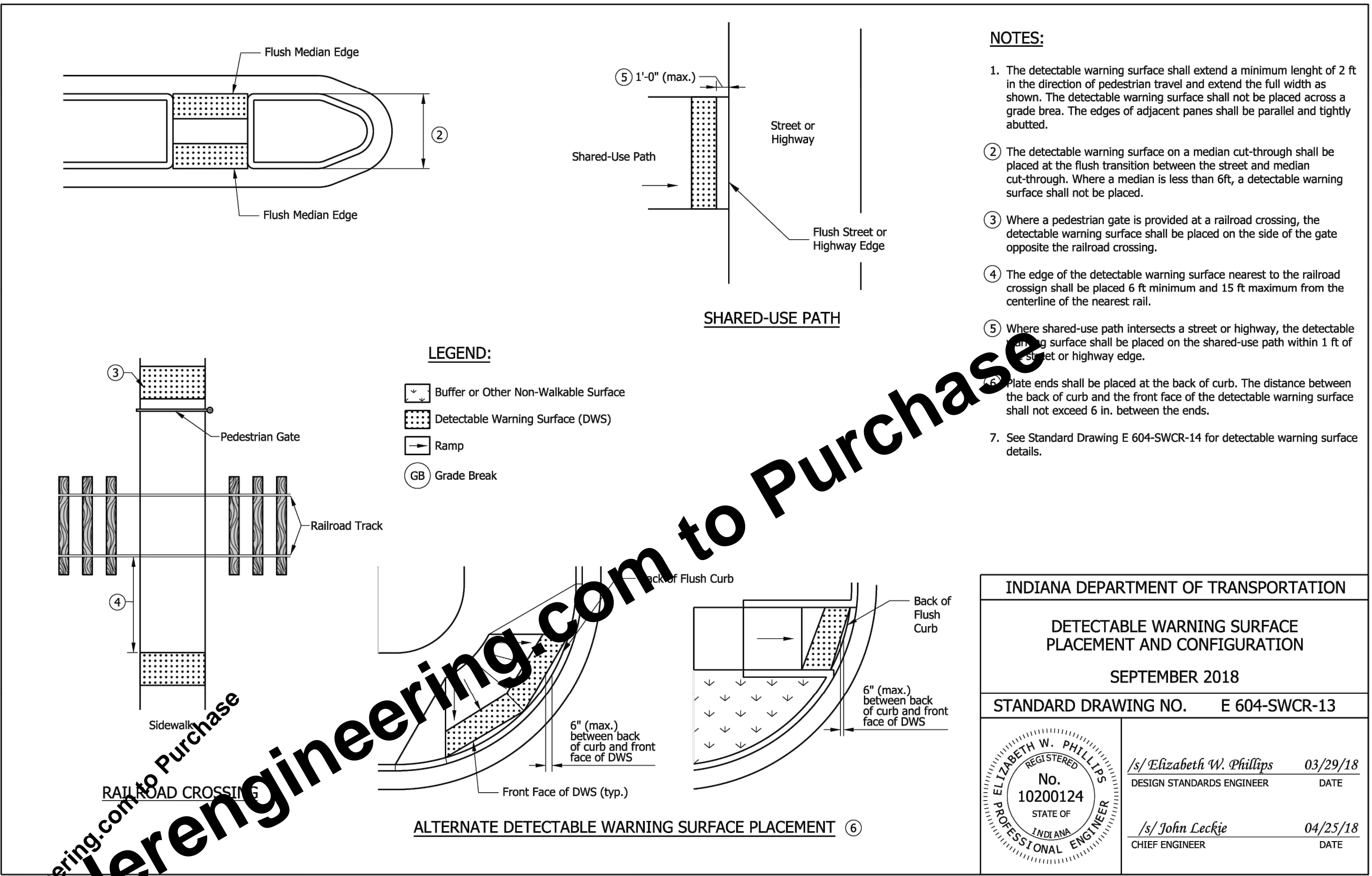
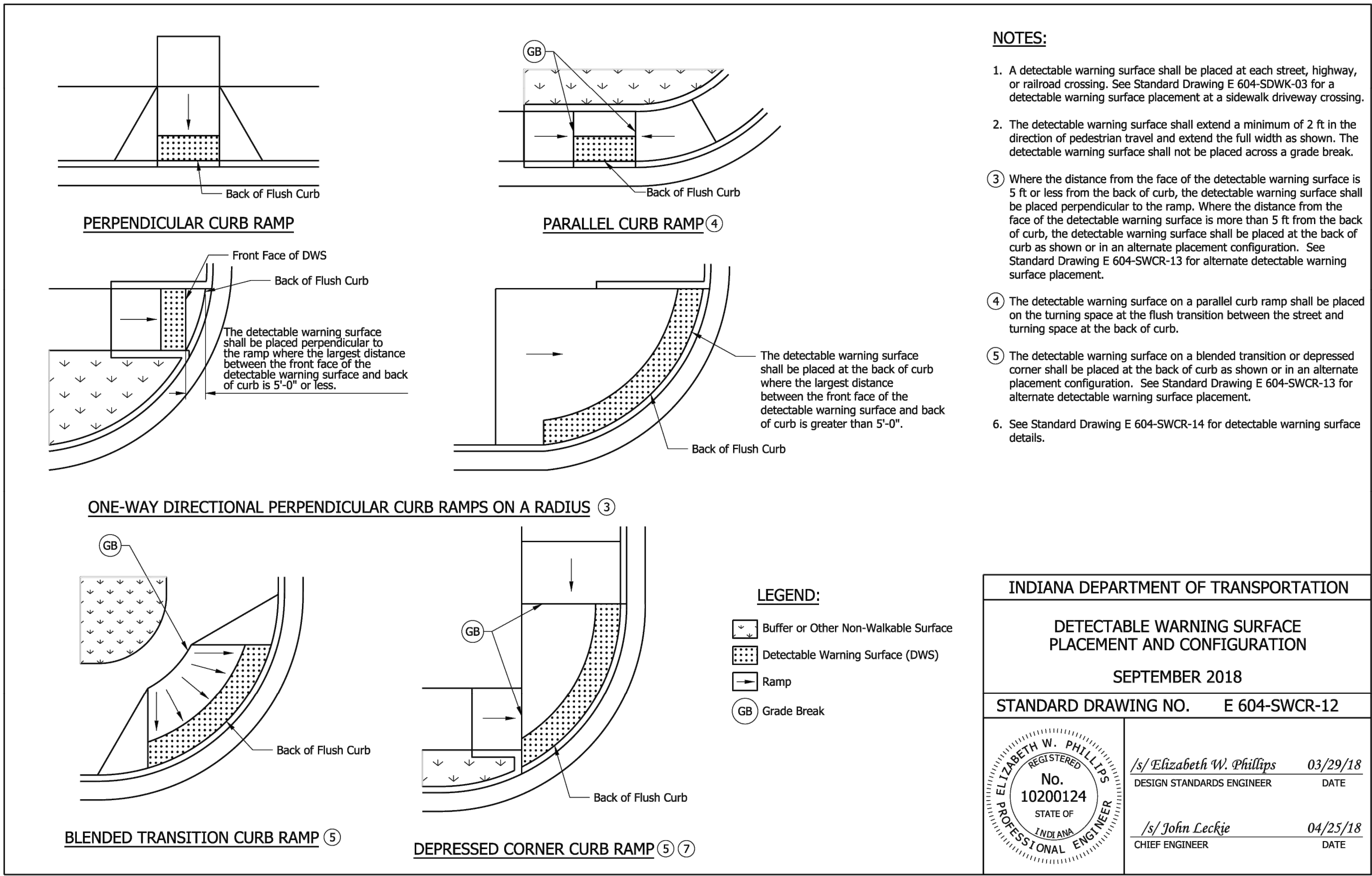
SHEET NO.

16

TOTAL SHEETS

21

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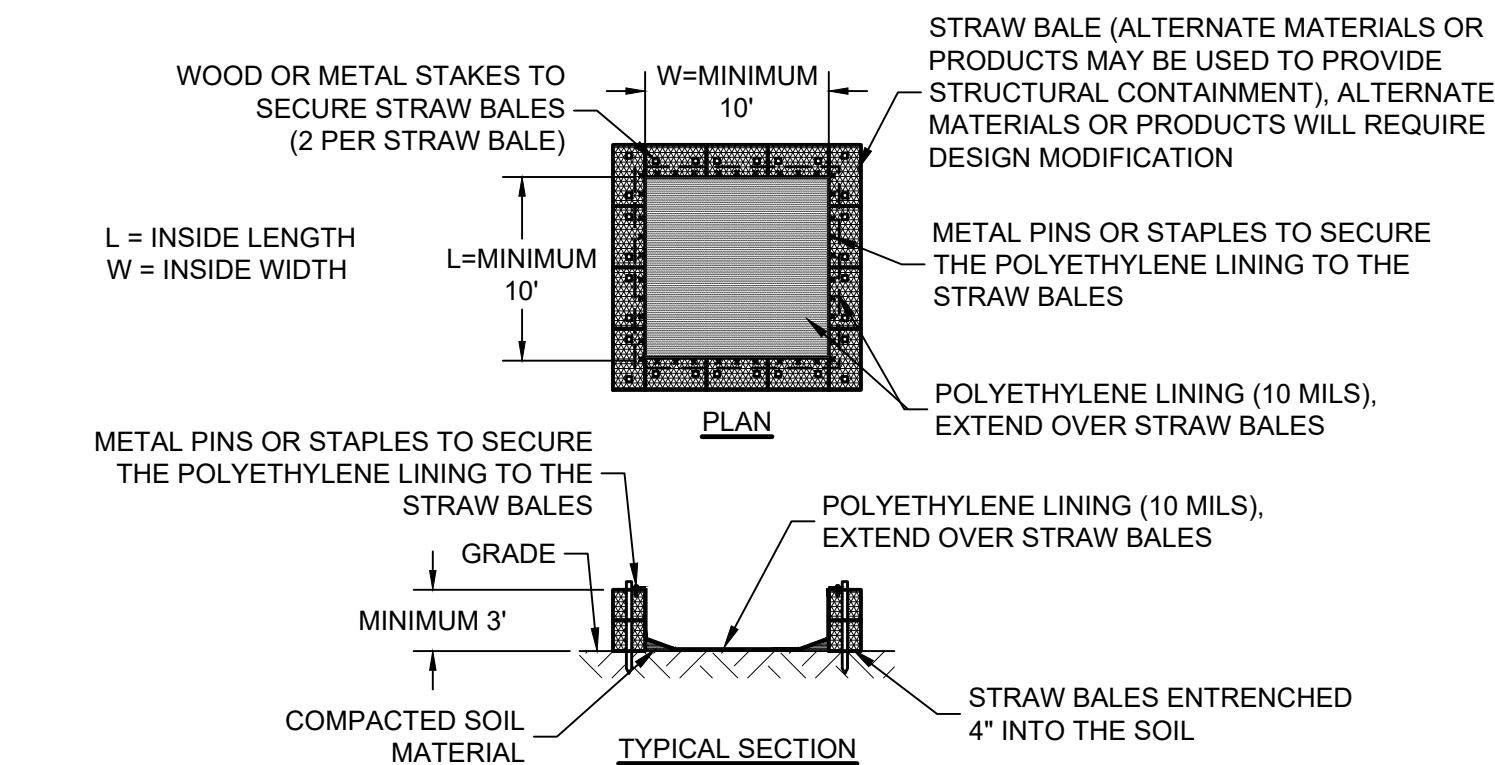
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLL				
	APPROVED BY	JRF				
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	JANUARY 2024					
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	265123-04-001					



2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA
MISCELLANEOUS DETAILS

SHEET NO.
17
TOTAL SHEETS
21

Drawing: X:\Butler\265123 Butler Streets Community Crossing\DWG\Sheets\265123-04-001.dwg | Layout: MS-4 | Plotted: 01/10/24 @ 10:21:43 | LastSavedBy: JustinF



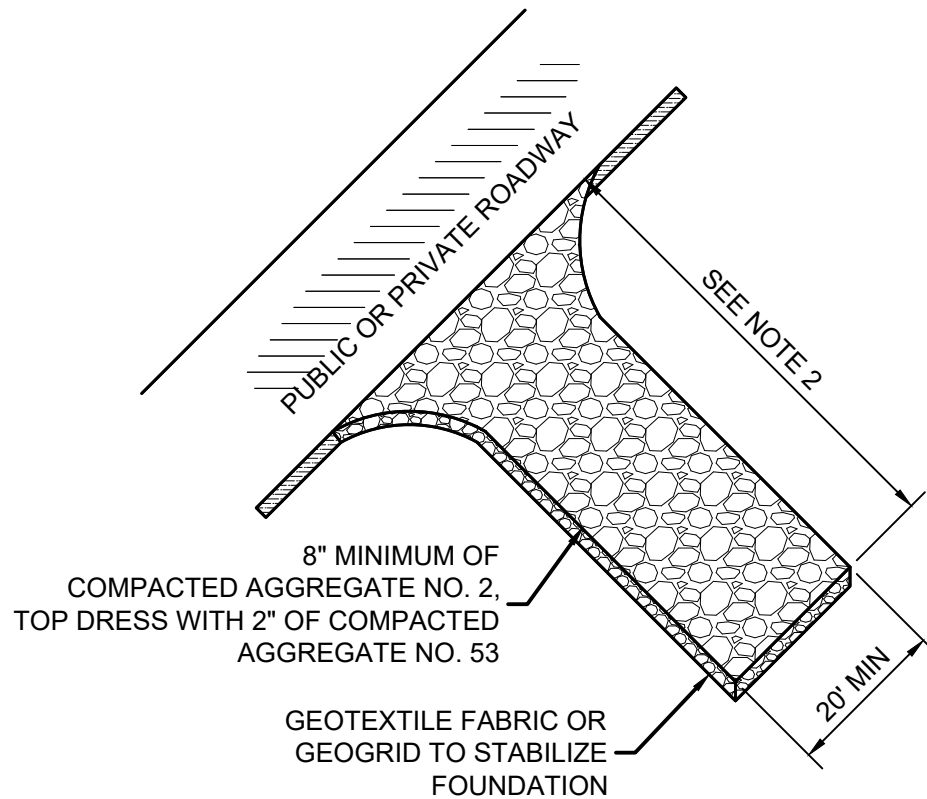
- NOTES:**
1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.
- WASHOUT PROCEDURES:**
1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
 2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
 3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
 4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
 5. DO NOT USE ADDITIVES WITH WASH WATER.
 6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

MAINTENANCE:

1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT

SCALE: NONE



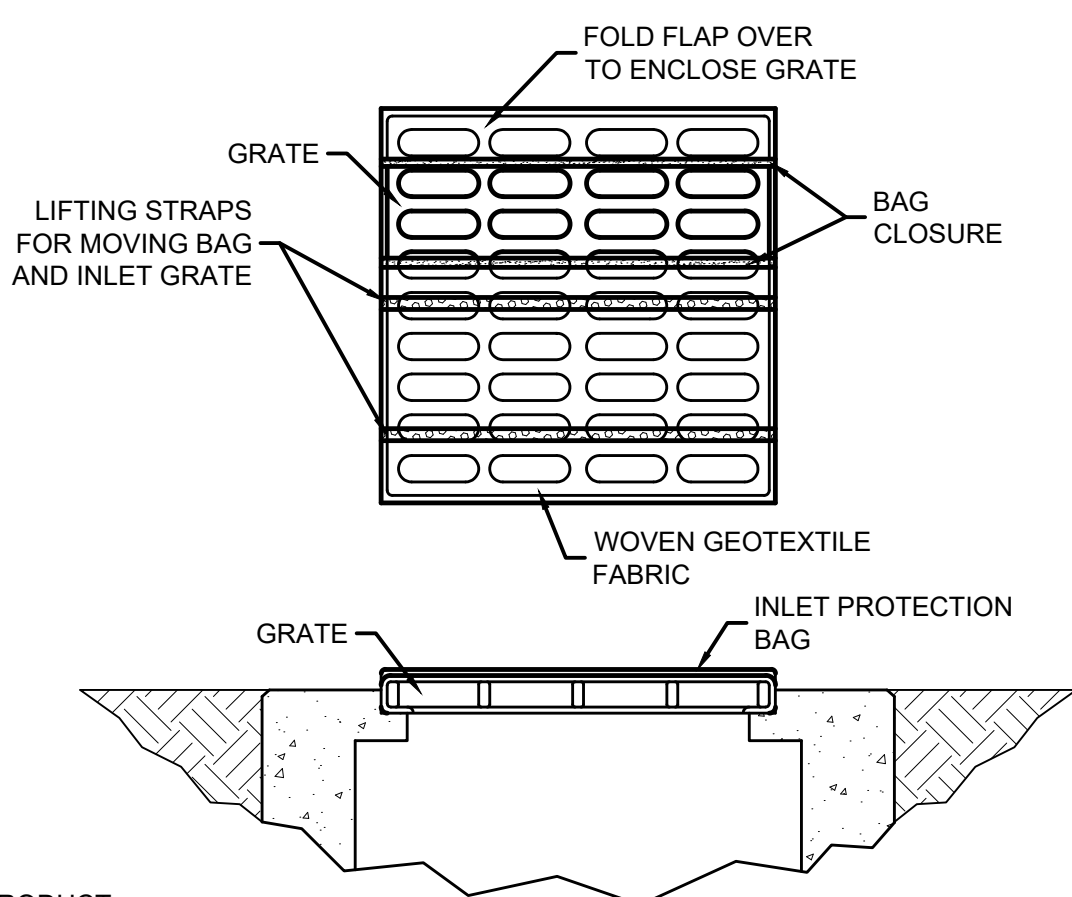
- NOTES:**
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
 2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
 3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

MAINTENANCE:

1. INSPECT DAILY AND REPLACE DISPLACED STONE.
2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF FROM ROADWAY.
4. AT COMPLETION OF PROJECT COMPLETELY REMOVE CONSTRUCTION ENTRANCE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE COURSE FOR PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SLOPES.

CONSTRUCTION ENTRANCE

SCALE: NONE



PRODUCT:

1. DANDY BAG, OR APPROVED EQUAL.

INSTALLATION:

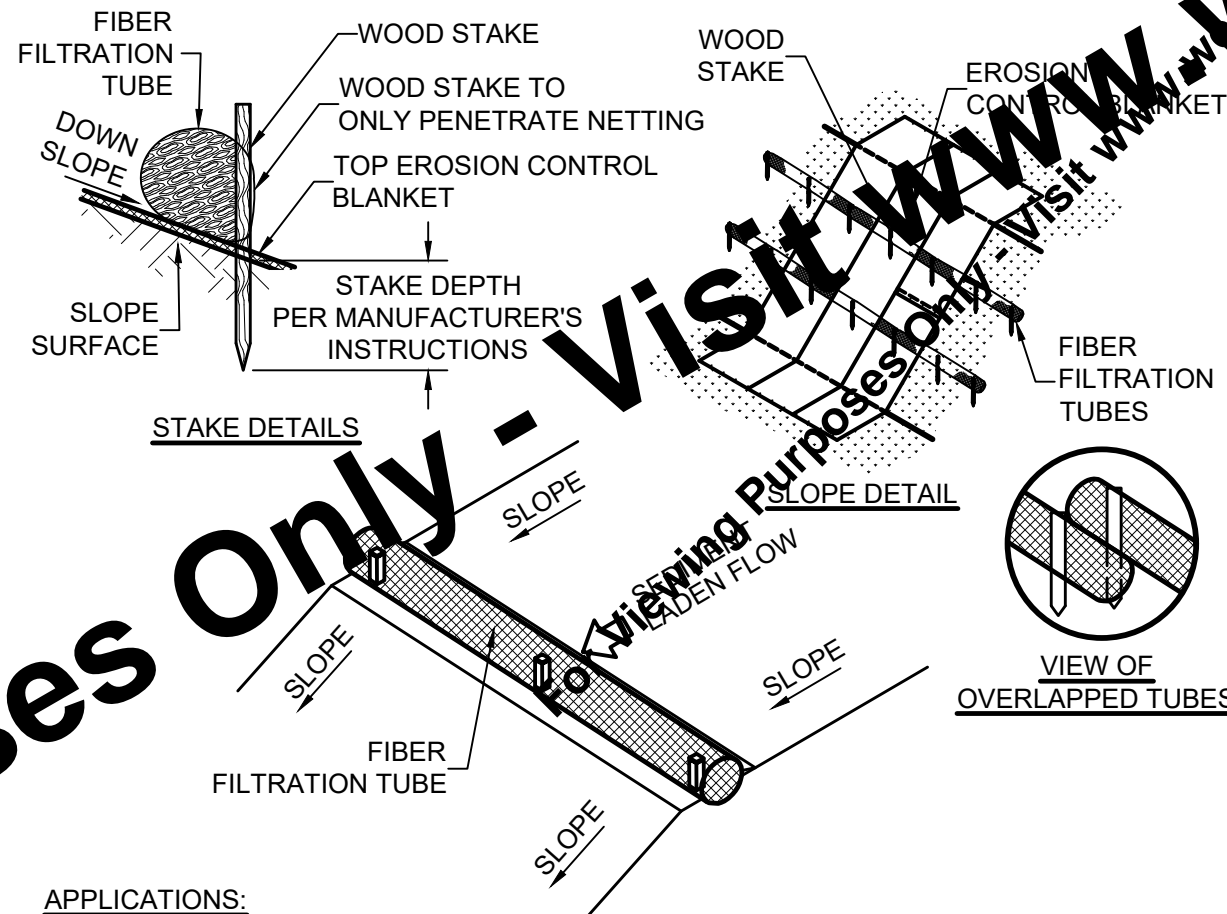
1. THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END.
2. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
3. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE:

1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.
2. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE INLET PROTECTION BAG AS NEEDED.
3. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

INLET PROTECTION BAG

SCALE: NONE



APPLICATIONS:

1. TOP OF SLOPES.
2. AT PROJECT PERIMETER.

INSTALLATION:

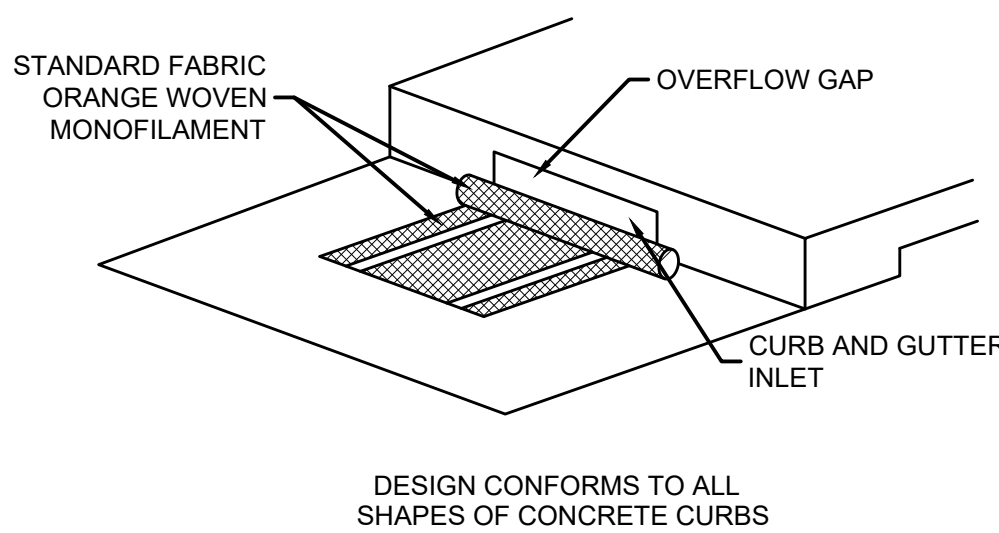
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. USE THE APPROPRIATE SIZE, LENGTH AND DISTANCE BETWEEN TUBES AS SPECIFIED BY THE MANUFACTURER.
3. ENTRENCH PER MANUFACTURER'S INSTRUCTIONS.

MAINTENANCE:

1. REMOVE ALL ACCUMULATED SEDIMENT WHEN IT REACHES 1/4 THE HEIGHT OF THE TUBE.
2. REPAIR ERODED AND DAMAGED AREAS.
3. IF PONDING BECOMES EXCESSIVE DUE TO REDUCED FILTERING CAPACITY, REMOVE THE TUBE AND EITHER RECONSTRUCT OR REPLACE WITH NEW PRODUCT.
4. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

FIBER FILTRATION TUBES - SLOPE

SCALE: NONE



PRODUCT:

1. DANDY CURB SACK, OR APPROVED EQUAL.

INSTALLATION:

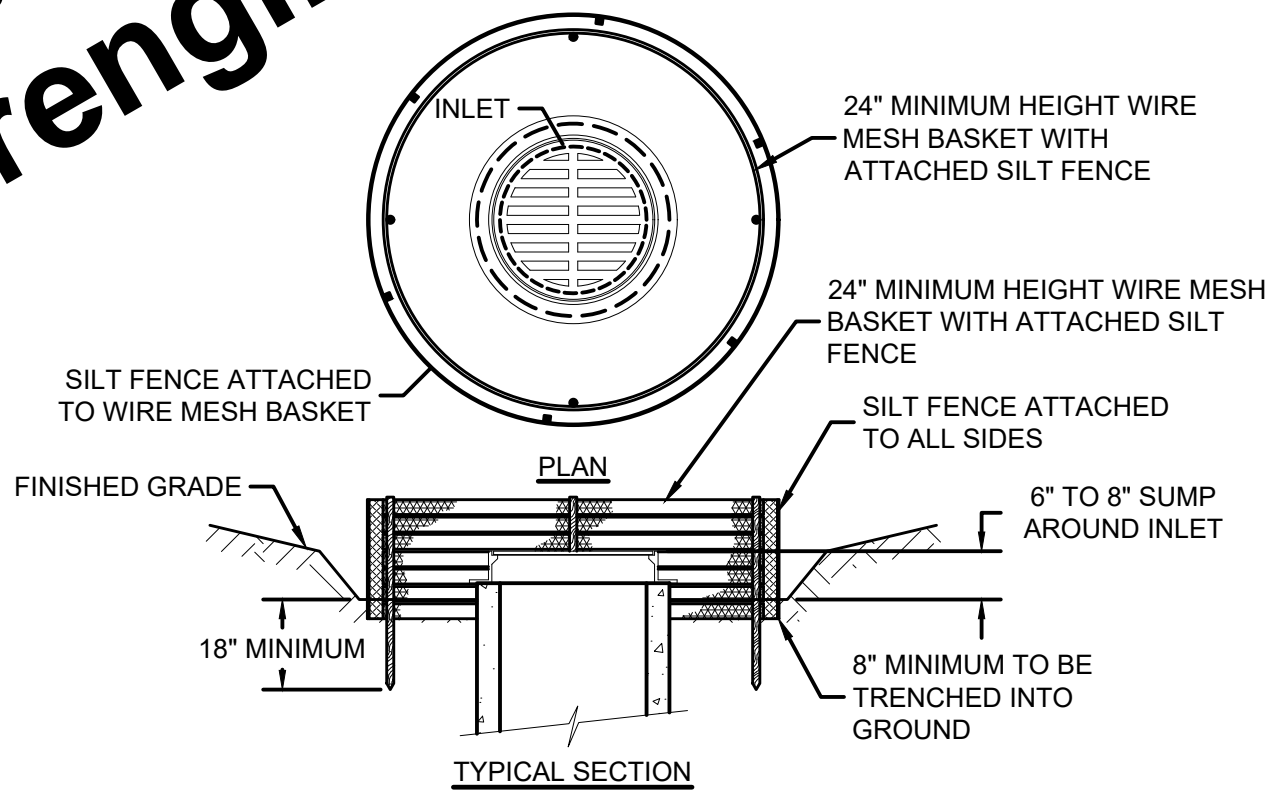
1. REMOVE THE GRATE FROM THE CATCH BASIN AND STAND ON END.
2. CRADLE THE GRATE BETWEEN THE UPPER AND LOWER STRAPS.
3. INSERT THE GRATE INTO THE INLET WITH THE LIFTING DEVICES. LOWER BACK EDGE WITH TUBE INTO PLACE. TUBE SHOULD PARTIALLY BLOCK THE CURB HOOD OPENING.

MAINTENANCE:

1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.
2. REMOVE THE SEDIMENT THAT HAS ACCUMULATED WITHIN THE FABRIC AS NEEDED.
3. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

CURB AND GUTTER INLET PROTECTION

SCALE: NONE



NOTES:

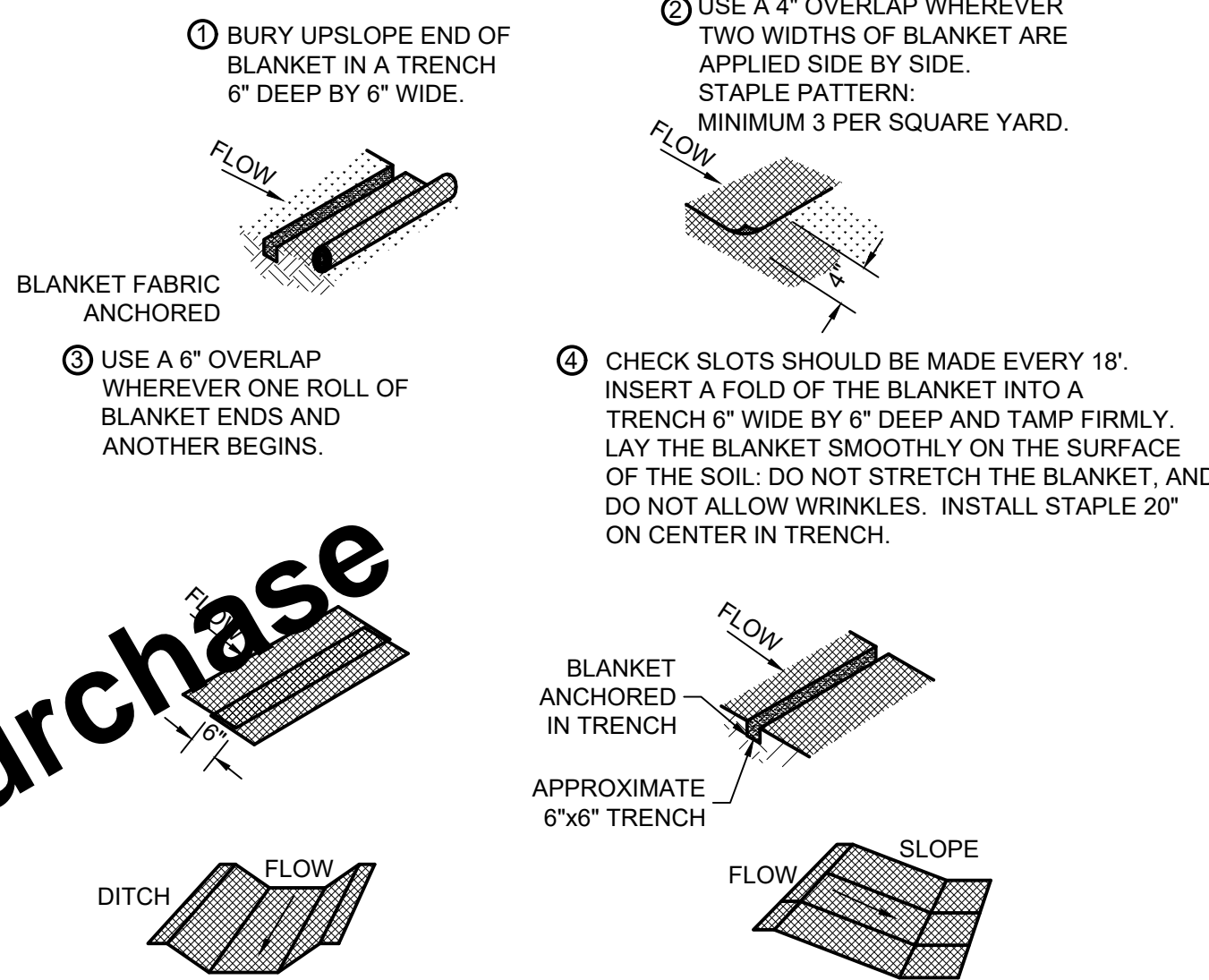
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
 - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
 - b. WOVEN EXTRA STRENGTH - 50 LB/LIN IN. (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/LIN. (MINIMUM).
 - c. WOVEN STANDARD STRENGTH - 30 LB/LIN IN. (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/LIN. (MINIMUM).
 - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), PER ASTM D4751.
 - e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), PER ASTM D4491.
2. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE FASTEN THE FABRIC SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.

MAINTENANCE:

1. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. REPLACE THE FABRIC PROMPTLY IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE. IMMEDIATELY MAKE ANY REQUIRED REPAIRS.
3. REMOVE SEDIMENT DEPOSITS FROM THE POOL AREA AFTER EACH STORM EVENT AND WHEN IT REACHES HALF THE HEIGHT OF THEE BARRIER.
4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED, AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE INLET SEDIMENT BARRIER

SCALE: NONE



PRODUCT:

1. NORTH AMERICAN GREEN SC150, OR EQUAL.

NOTES:

1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.

MAINTENANCE:

1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET

SCALE: NONE

2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS

BOARD OF PUBLIC WORKS AND SAFETY
CITY OF BUTLER INDIANA

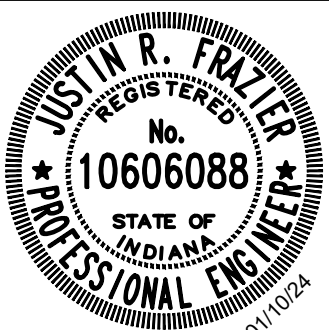
EROSION CONTROL DETAILS

SHEET NO.

18

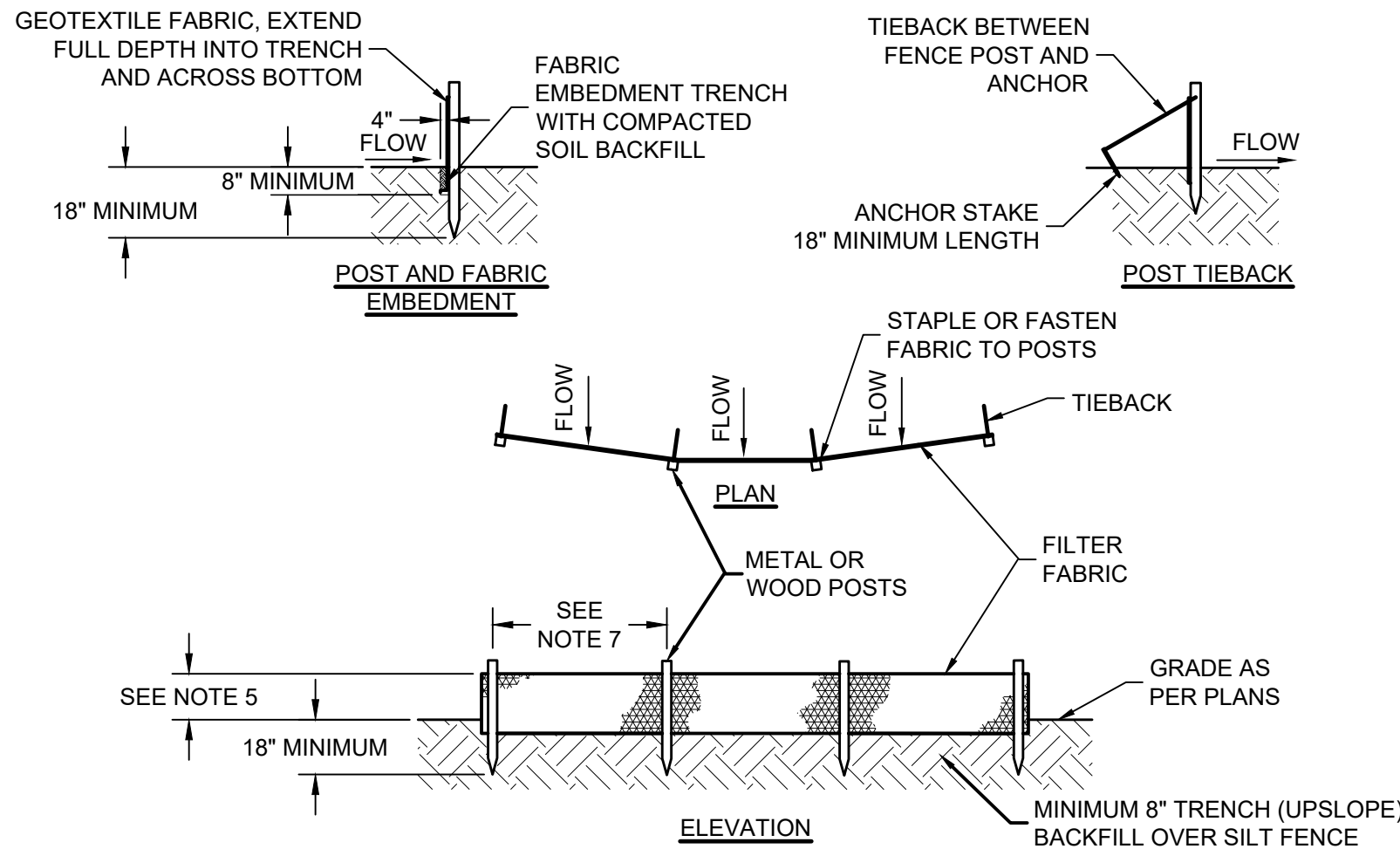
TOTAL SHEETS

21



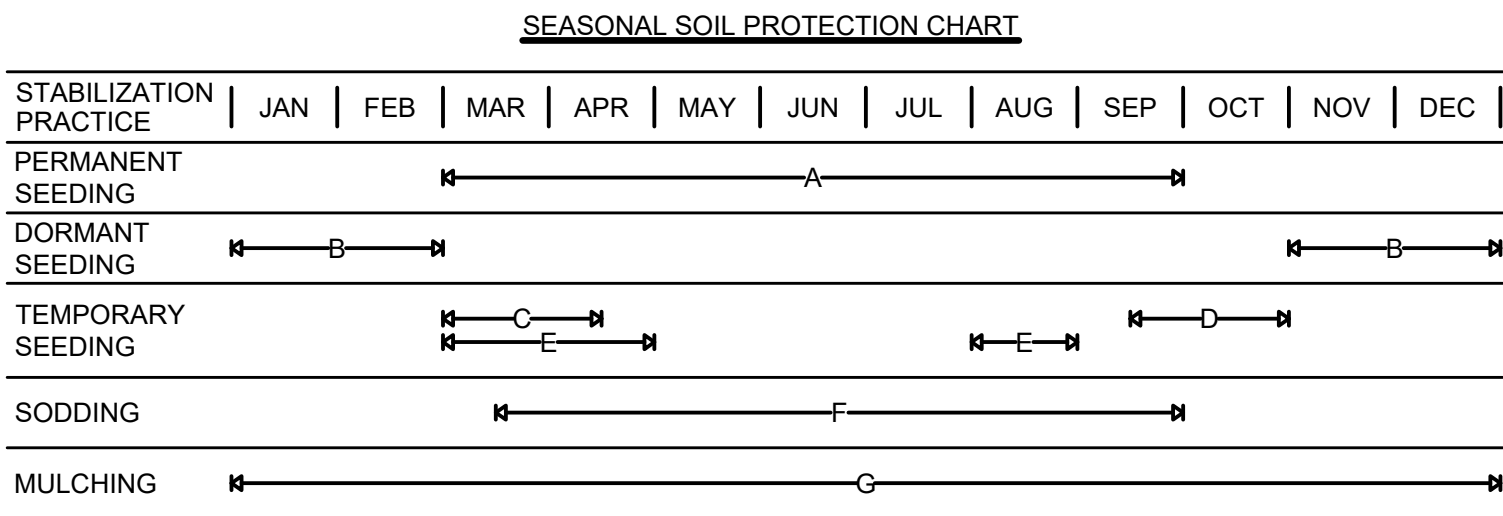
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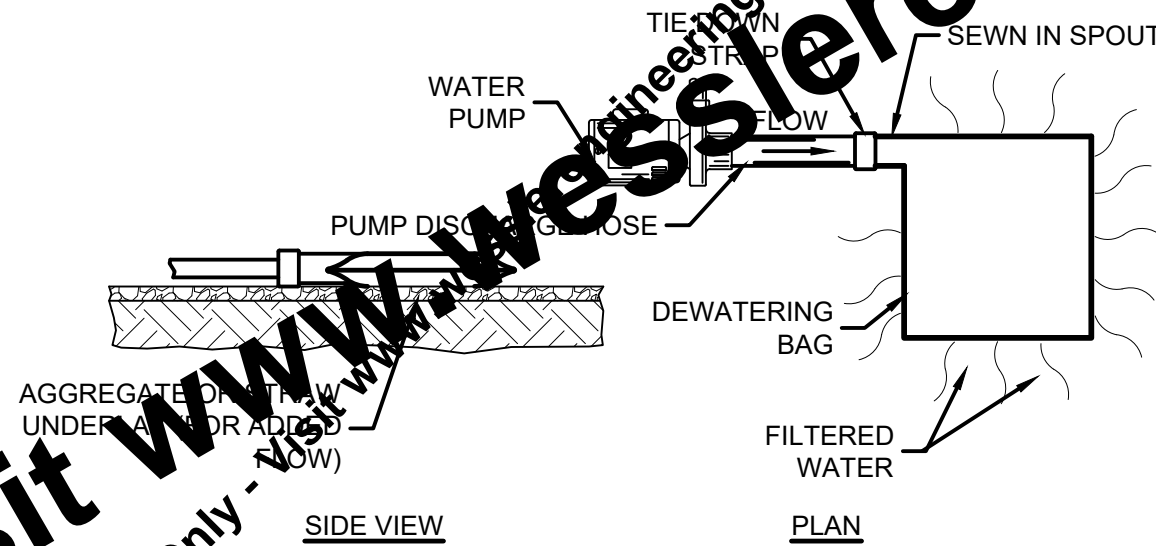
- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491.
 2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
 3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
 4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
 5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
 6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
 7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8'.
 8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
 9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
 11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
 12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
 13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
 14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.
- MAINTENANCE:**
1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
 4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE
SCALE: NONE



- A. = KENTUCKY BLUEGRASS 40 LB/ACRE
B. = KENTUCKY BLUEGRASS 210 LB/ACRE
C. = SPRING OATS 100 LB/ACRE (1" PLANTING DEPTH)
D. = WHEAT OR RYE 150 LB/ACRE (1" - 1.5" PLANTING DEPTH)
E. = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)
F. = SOD
G. = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

- NOTES:**
1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
 2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
 3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
 4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
 5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.
- MAINTENANCE:**
1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
 3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
 4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GEOTEXTILE TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GEOTEXTILE TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M² (GAL/MIN/FT²)	3866 (95)
PERMITTIVITY	ASTM D4491	S ⁻¹	1.2

- MAINTENANCE:**
1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH




PUMPING BAG
SCALE: NONE

EROSION CONTROL SCHEDULE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION OF A COPY OF THE CONSTRUCTION DRAWINGS AND STORMWATER POLLUTION PREVENTION PLAN (SWP3). MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION 02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPP SHOULD BE ONSITE AND SELF-MONITORING INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST. INFORM OR TRAIN PERSONNEL ASSOCIATED WITH THE PROJECT OF THE TERMS AND CONDITIONS OF THE SWPPP AND THE SWPPP REQUIREMENTS.	AUTHORIZATION UNDER THE CSGP IS EFFECTIVE 48-HOURS AFTER SUBMITTAL OF THE NOTICE OF INTENT TO IDEM AND LOCAL AUTHORITY BY THE OWNER.
REVIEW THE EROSION CONTROL SCHEDULE, CONSTRUCTION DRAWINGS AND REVISE AS NEEDED. RE-REVIEW EROSION CONTROL ACTIVITIES TO MAINTAIN THE FOOTPRINT OF DISTURBED UNSTABLE AREAS TO MATCH THE REVISED EROSION CONTROL SCHEDULE. RE-REVIEW EROSION CONTROL SCHEDULE AND RE-REVIEW WORK AS APPLICABLE.	COMPLETE BEFORE CONSTRUCTION BEGINS.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING AND WASTE HANDLING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.

EROSION CONTROL SCHEDULE
SCALE: NONE

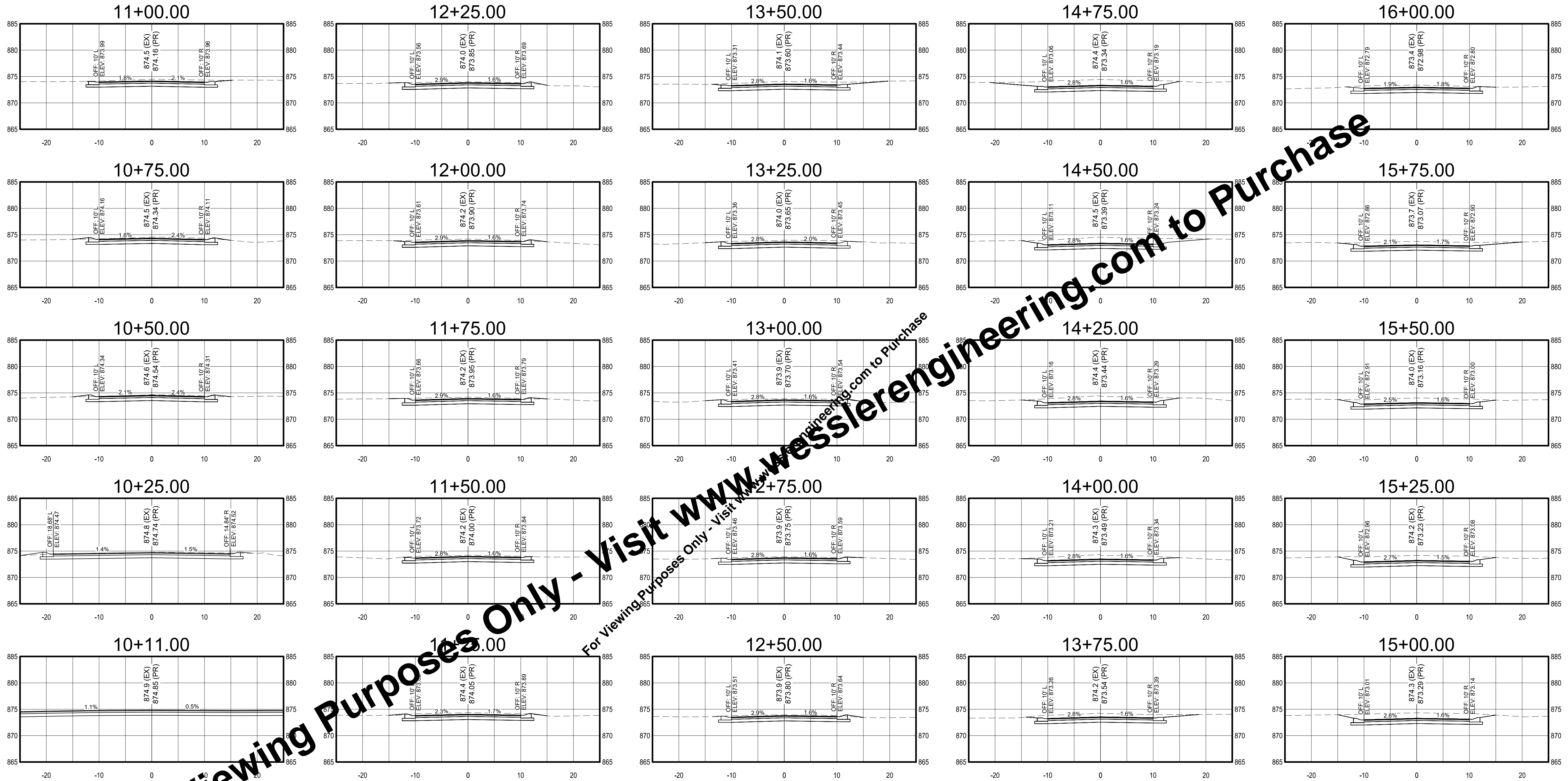
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	APPROVED BY	JRF						EROSION CONTROL DETAILS	
	ISSUE DATE								
	JANUARY 2024								
	PROJECT NUMBER								
	265123-04-001								

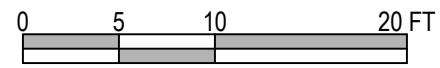


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CROSS SECTIONS
(WALNUT ST - FEDERAL AVE TO WESTERN AVE)



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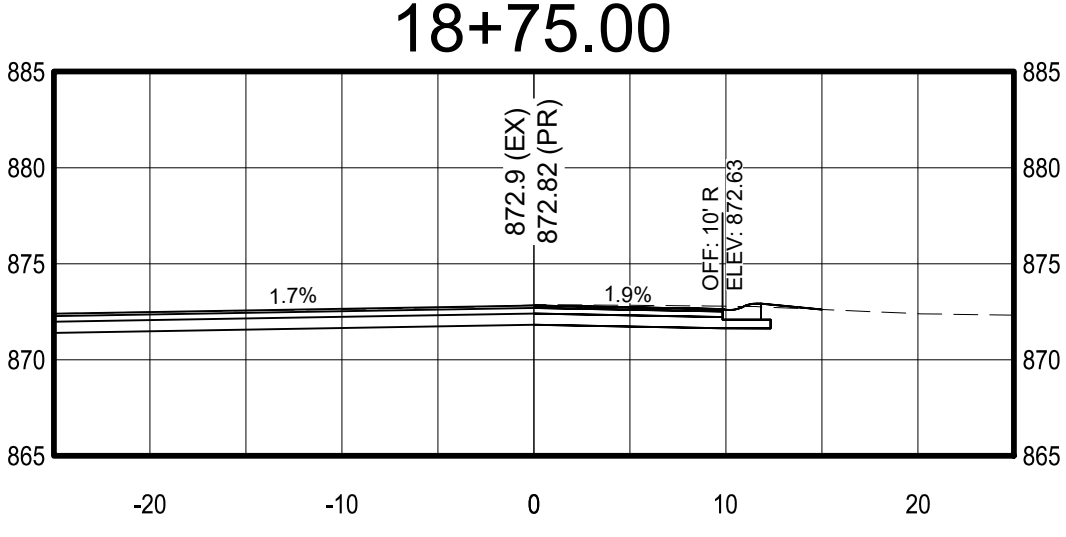
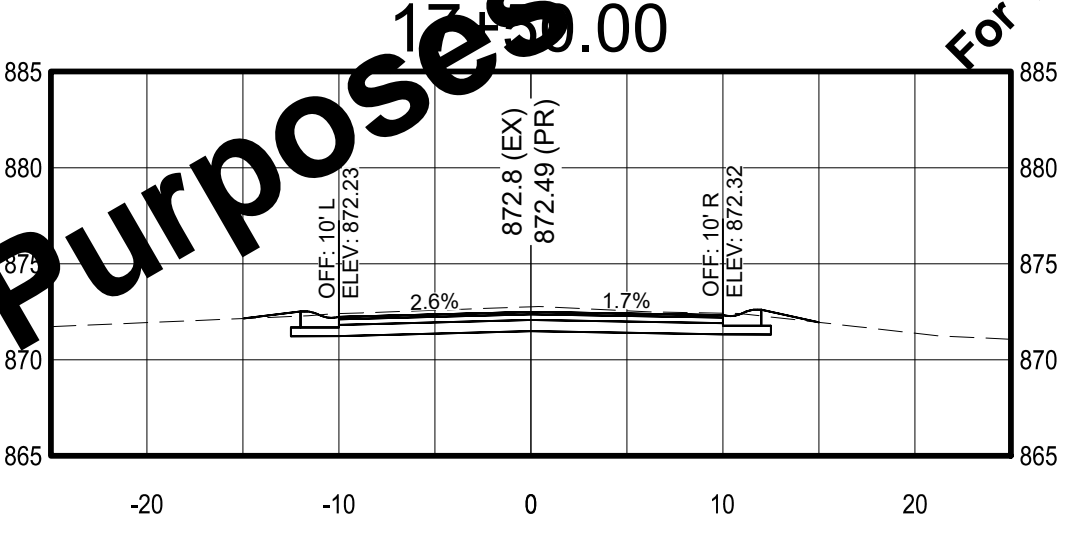
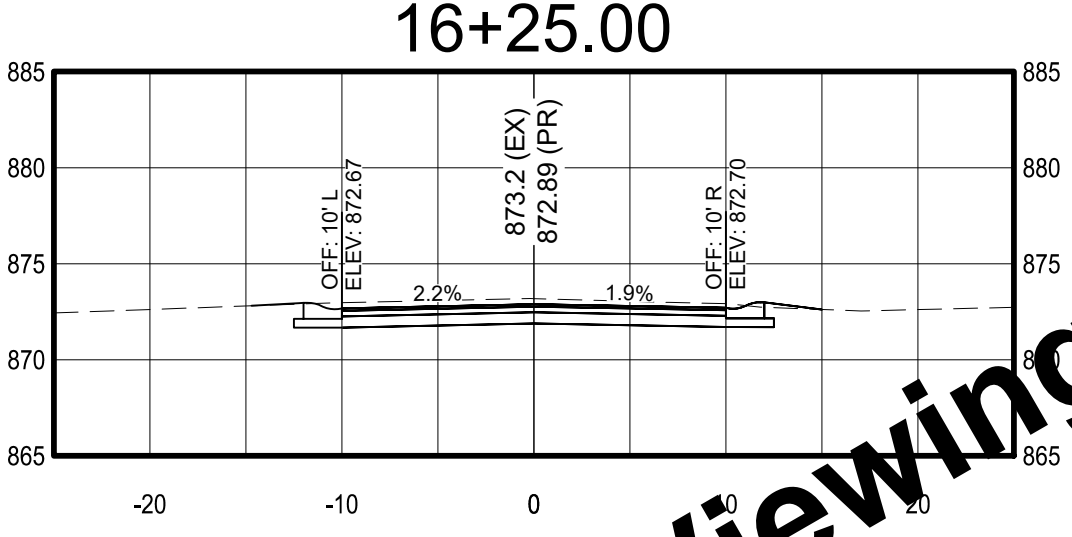
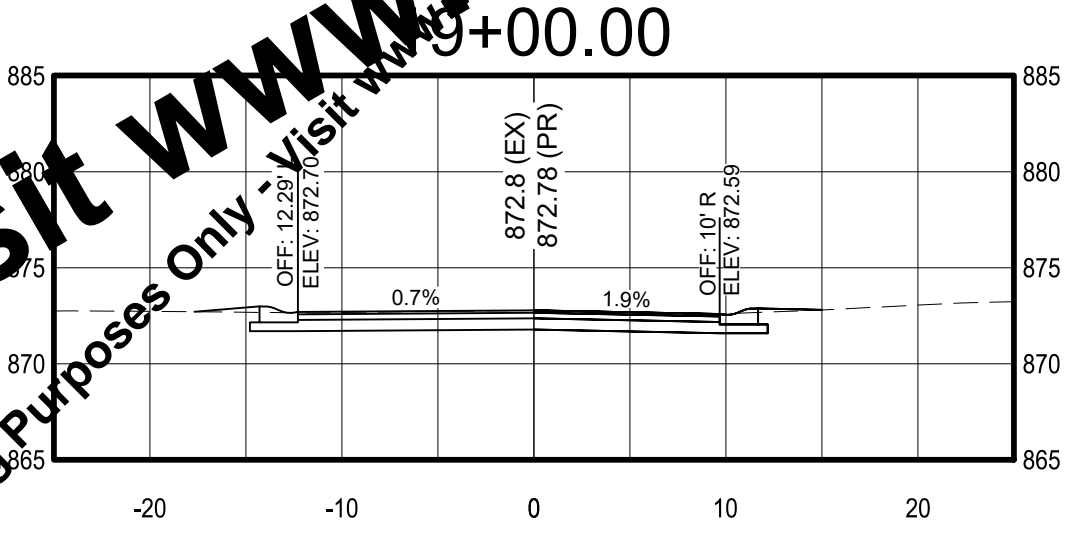
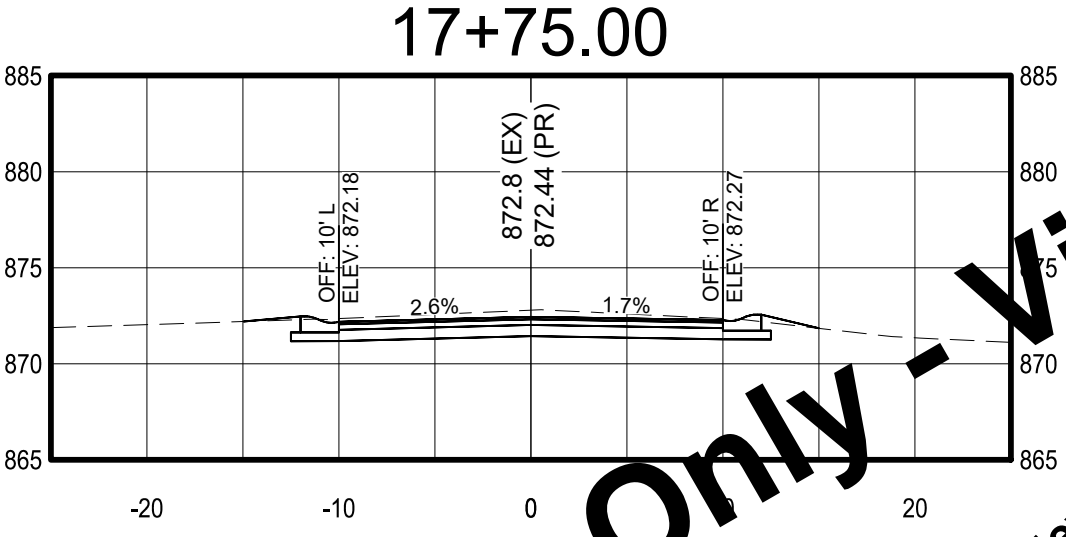
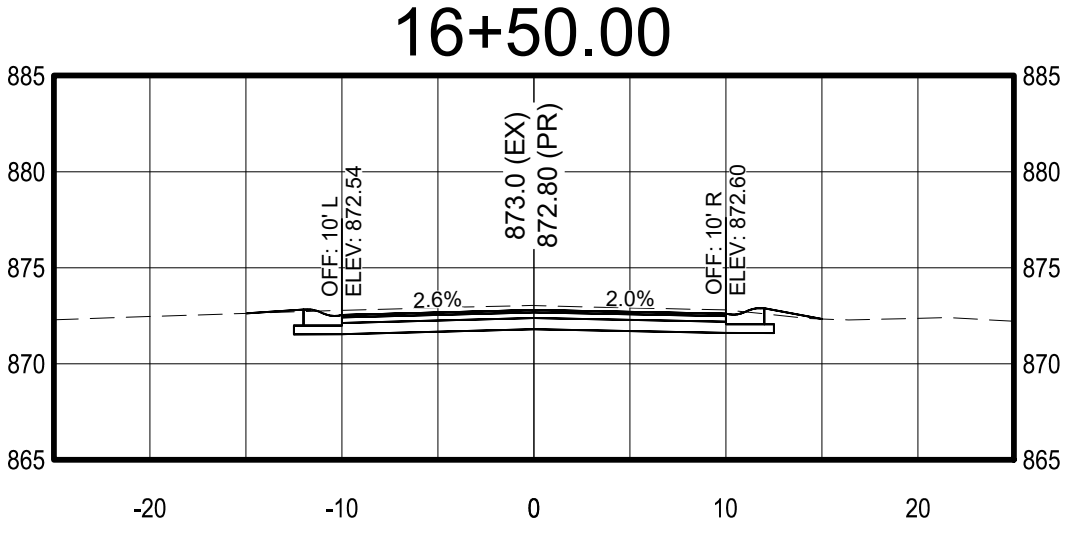
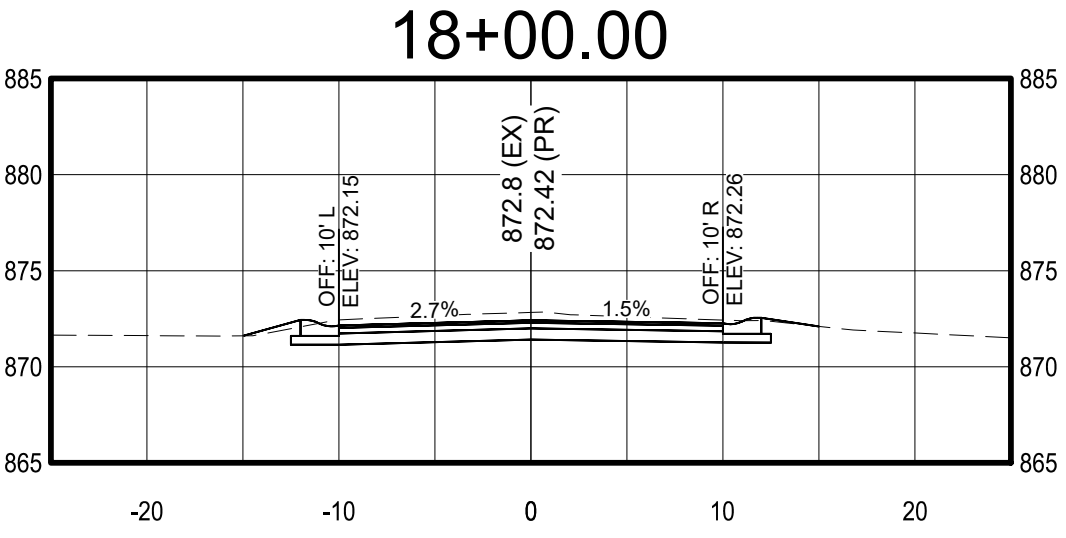
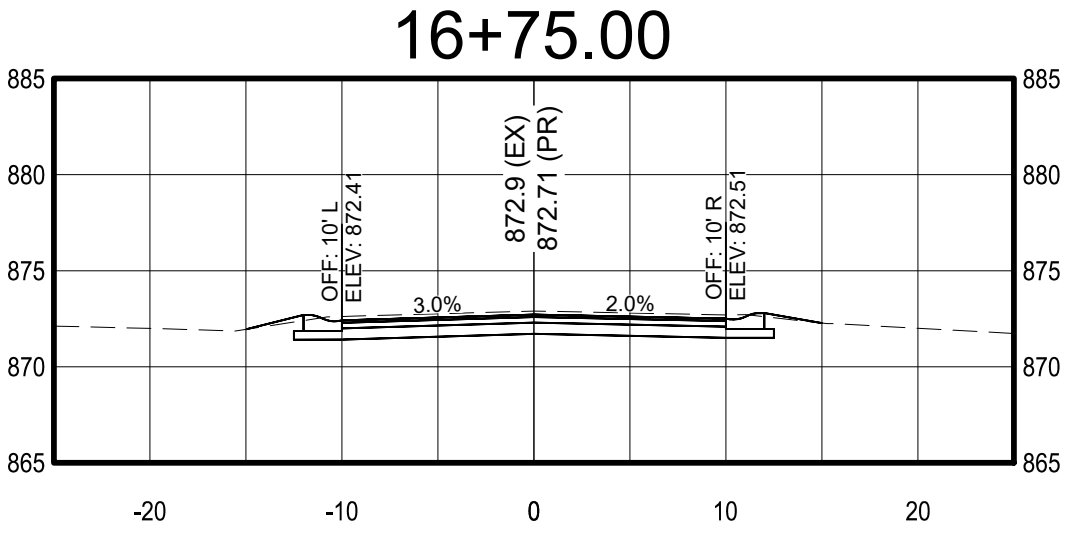
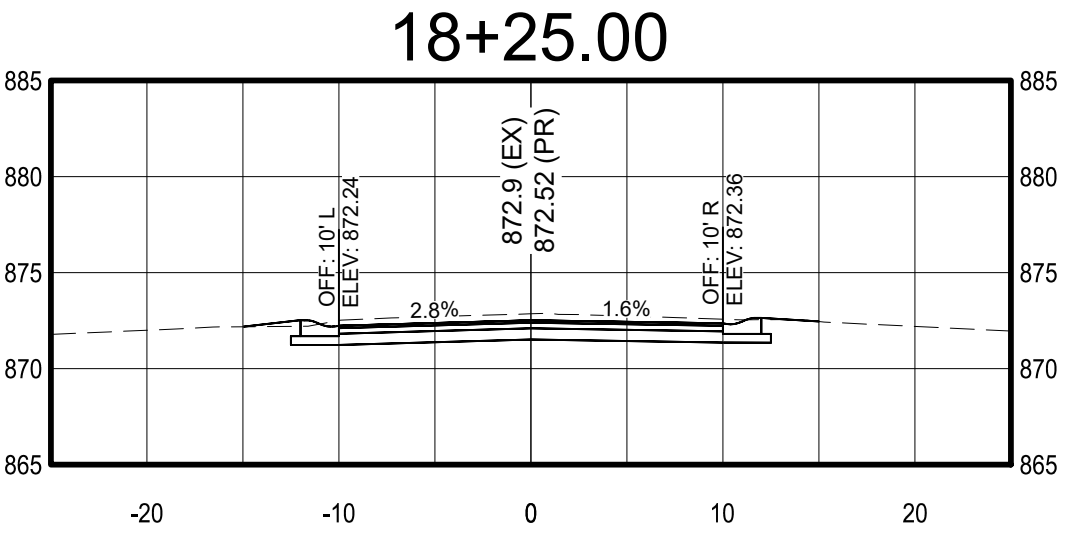
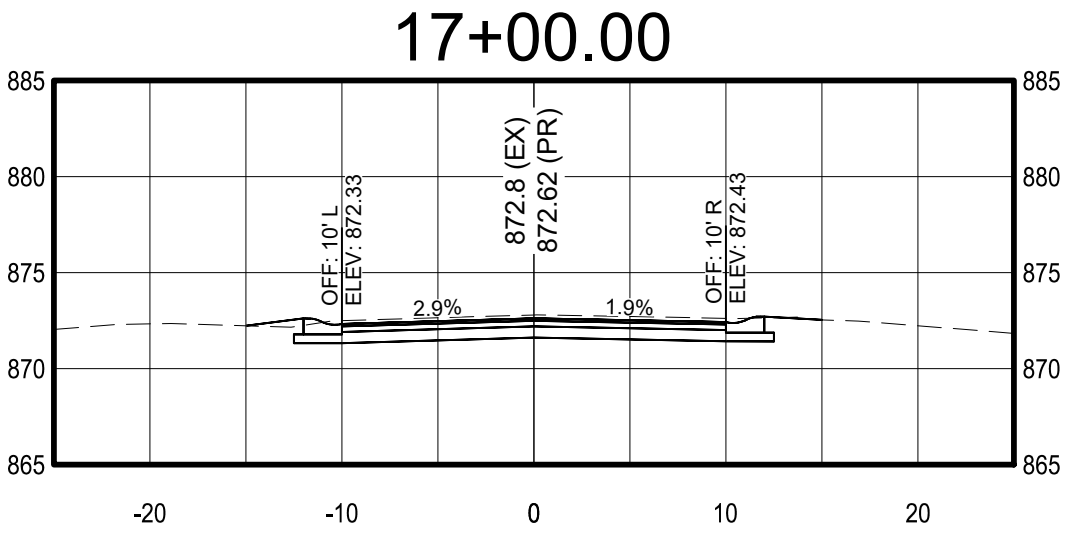
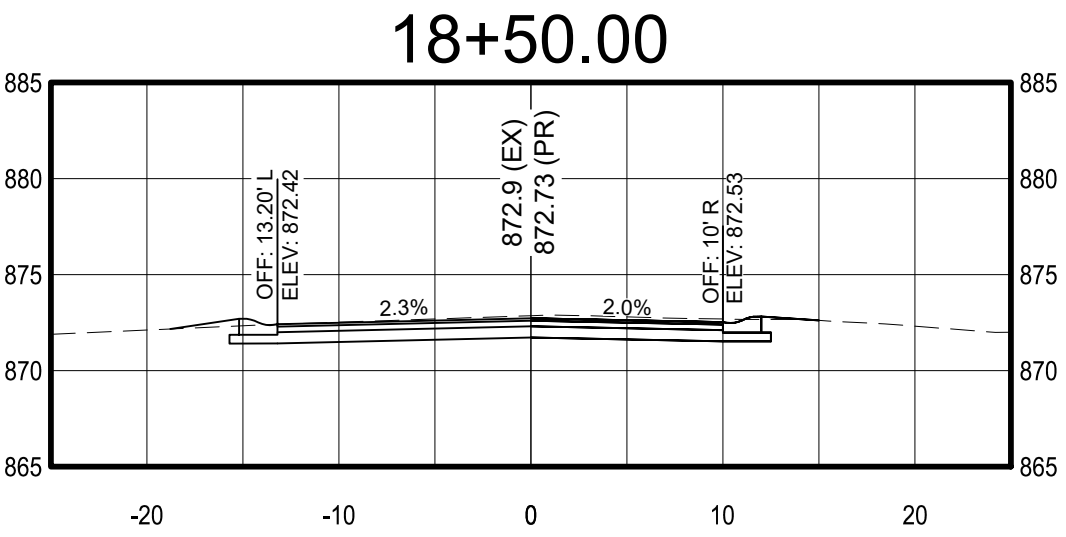
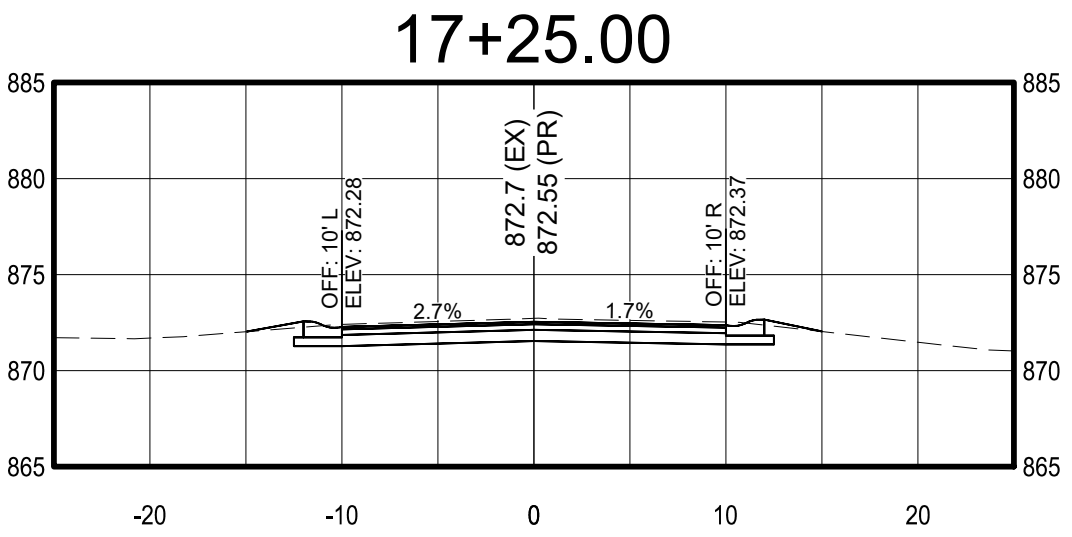
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	CHECKED BY	JLL						
	APPROVED BY	JRF						
	ISSUE DATE	JANUARY 2024						
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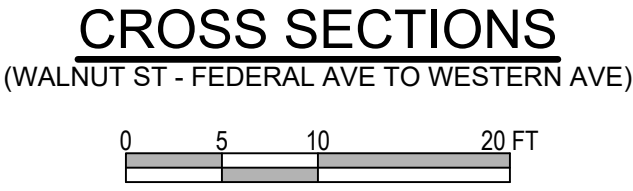
Justin R. Frazier




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2023 COMMUNITY CROSSINGS ROAD IMPROVEMENTS	
BOARD OF PUBLIC WORKS AND SAFETY CITY OF BUTLER INDIANA	
CROSS SECTIONS - WALNUT ST	

SHEET NO.	21
TOTAL SHEETS	21