FEDERAL PROJECT STATE PROJECT **STATE OF WISCONSIN** CONTRACT ORDER OF SHEETS 7830-00-72 **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities Section No. Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Section No. Plan and Profile Section No. Section No. Standard Detail Drawings Section No. **FOSTER - AUGUSTA** Section No. Computer Earthwork Data **BEARGRASS CREEK BRIDGE B-18-0256** CTH VV TOTAL SHEETS = **EAU CLAIRE COUNTY** STATE PROJECT NUMBER 7830-00-72 GESKE RD **EAU CLAIRE COUNTY** W HILLSDALE O DR ERDMAN ACCEPTED FOR L PROJECT LOCATION **BEGIN PROJECT** 31 T-26-N STA 15+05.00 EAU CLAIRE COUNTY Y = 224,075.87X = 405,495.00E MALLARD RD DESIGN DESIGNATION T-25-N 6 SMITH AADT 2026 = 160 (Signature and Title of Official) STRUCTURE B-18-0256 A.A.D.T. 2046 = 170 STA 16+29.84 - STA 16+80.34 RD = N/A D.H.V. ear ORIGINAL PLANS PREPARED BY D D = 50/50 = 10% MAX DESIGN SPEED = 40 MPH = XXX,XXX CONVENTIONAL SYMBOLS 53 KK GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (Professional Engineer Signature) (To be noted as such) **END PROJECT** LIMITED HIGHWAY EASEMENT SPECIAL DITCH STA 18+20.00 STATE OF WISCONSIN EXISTING RIGHT OF WAY Y = 224,082.84 GRADE ELEVATION Foster PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION X = 405,809.93SLOPE INTERCEPT CULVERT (Profile View) PREPARED BY UTILITIES REFERENCE LINE COOPER ENGINEERING Surveyor ELECTRIC Designer EXISTING CULVERT FIBER OPTIC Project Manage PROPOSED CULVERT SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN TELEPHONE SCALE I COUNTY COORDINATE SYSTEM (WCCS), EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID PPROVED FOR THE DEPARTMENT MARSH AREA COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.060 MILES ARE THE SAME AS GROUND DISTANCES. ₫ ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED Ø Ε WOODED OR SHRUB AREA TELEPHONE POLE ELEVATIONS ARE BASED ON GEOID 18. JACOB FRIBERG

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LIST OF STANDARD ABBREVIATIONS

ABUT	A DULTA AFAIT		
ABUT AC	ABUTMENT ACRES	LT.	LEFT
AGG	AGGREGATE	LS.	LUMP SUM
AH	AHEAD	MH	MANHOLE
ADT	AVERAGE DAILY TRAFFIC	N NC	NORTH NORMAL CROWN
		PAVT	PAVEMENT
AVG.	AVERAGE	PC	POINT OF CURVATURE
ASPH	ASPHALTIC	PF	
BK.	BACK		PRIVATE ENTRANCE
BM	BENCHMARK	PI	POINT OF INTERSECTION
Δ	CENTRAL ANGLE OR DELTA	PL	PROPERTY LINE
ℚ, C/L	CENTERLINE	PP	POWER POLE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CABC	CRUSHED AGGREGATE	R	RANGE , RADIUS
	BASE COURSE	RCCP	REINFORCED CONCRETE CULVERT PIPE
CONC.	CONCRETE	RD	ROAD
COR	CORNER		
CORR	CORRUGATED	REBAR	REINFORCEMENT BAR
CSCP	CORRUGATED STEEL	REQD	REQUIRED
COCI	CULVERT PIPE	RDWY	ROADWAY
CSPA	CORRUGATED STEEL	RHF	RIGHT HAND FORWARD
	PIPE ARCH	RL, R/L	REFERENCE LINE
CTH	COUNTY TRUNK HIGHWAY	RR RT.	RAILROAD RIGHT
CP.	CULVERT PIPE	R/W	RIGHT-OF-WAY
CY.	CUBIC YARD	S	SOUTH
CWT.	HUNDREDWEIGHT	SAN S	SANITARY SEWER
DIA	DIAMETER	SDD	STANDARD DETAIL DRAWING
D	DEGREE OF CURVE	SE	SUPER ELEVATION
DHV	DESIGN HOURLY VOLUME	SF.	SQUARE FEET
DWY	DRIVEWAY	SHLDR	SHOULDER
EBS	EXC. BELOW SUB GRADE	SPECS	SPECIFICATIONS
ELEV., EL	ELEVATION	SQ.	SQUARE
ELEC.	ELECTRIC	SS.	STORM SEWER
EXC	EXCAVATION	SY.	SQUARE YARD
EXIST E	EXISTING FAST	STH	STATE TRUNK HIGHWAY STREET
FE	FIELD ENTRANCE	ST. STA.	STATION
FF.	FACE TO FACE	SW.	SIDEWALK
FL, F/L	FLOW LINE	T	TANGENT
FS	FULL SUPERELEVATION	TC	TOP OF CURB
G	GARAGE	TL, T/L	TRANSIT LINE
GN	GRID NORTH	TEL	TELEPHONE
Н	HOUSE	TEMP	TEMPORARY
		TLE	TEMPORARY LIMITED EASEMENT
		TYP	TYPICAL
HYD	HYDRANT	USH	UNITED STATES HIGHWAY
1	INTERSECTION ANGLE	UG	UNDERGROUND
INTERS	INTERSECTION	V	DESIGN SPEED
INV.	INVERT	VAR.	VARIABLE
IP LC	IRON PIN OR PIPE LONG CHORD OF CURVE	VERT	VERTICAL
LC	LOING CITORD OF CORVE	YD	YARD
LF	LINEAR FOOT		

LEFT HAND FORWARD LENGTH OF CURVE

UTILITY CONTACTS

ELECTRIC

EAU CLAIRE ENERGY COOPERATIVE JOEY MARKEY 3200 EAST AVE S, PO BOX 817 LA CROSSE, WI 54602 PHONE: (608) 787-1362 EMAIL: joey.markey@dairylandpower.com

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



OTHER CONTACTS

DESIGN CONSULTANT

COOPER ENGINEERING
JACOB FRIBERG
2600 COLLEGE DRIVE
RICE LAKE, WI 54868
PHONE: (715) 234-7008
EMAIL: jfriberg@cooperengineering.net

EAU CLAIRE COUNTY

HIGHWAY COMMISSIONER
JON JOHNSON
5061 US HIGHWAY 53
EAU CLAIRE, WI 54701
PHONE: (715) 839-2952
EMAIL: ecchwy@eauclairecounty.gov

WDNR REGIONAL CONTACT

WDNR/WISDOT LIAISON LEAH NICOL 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: (715) 934-9014 EMAIL: Leah.Nicol@wisconsin.gov

GENERAL NOTES:

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEL DESIGNATED FOR REMOVAL BY THE ENGINEER.

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONTRUCTION.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLAN LIRE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT ARE THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECT OF UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

CTH VV WILL BE CLOSED DURING CONSTRUCTION OF IN DETOUR ROUTE WILL BE MARKED.

RUNOFF COEFFICIENT TABLE

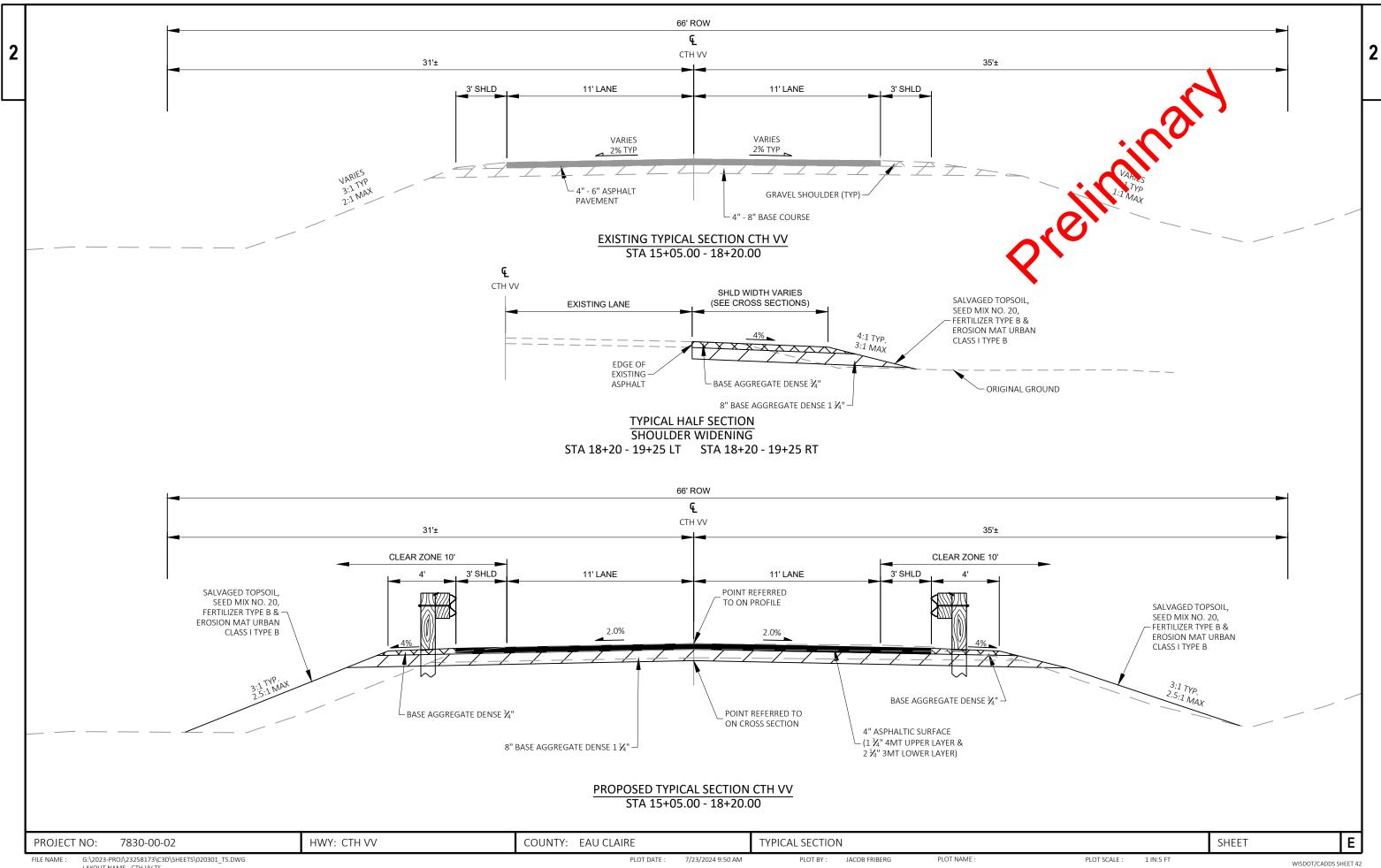
		HYDROLOGIC SOIL GROUP								
A			В			С				
	SI	OPE RA	NGE (%)	SLOPE RANGE (%)		SL	SLOPE RANGE (%)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36	
PAVEMENT:										
ASPHALT			.7095							
CONCRETE			.8095							
BRICK			.7080							
DRIVES, WALKS			.7585	•			•			
ROOFS			.7595							
GRAVEL ROADS, SI	HOULDER	RS	.4060							

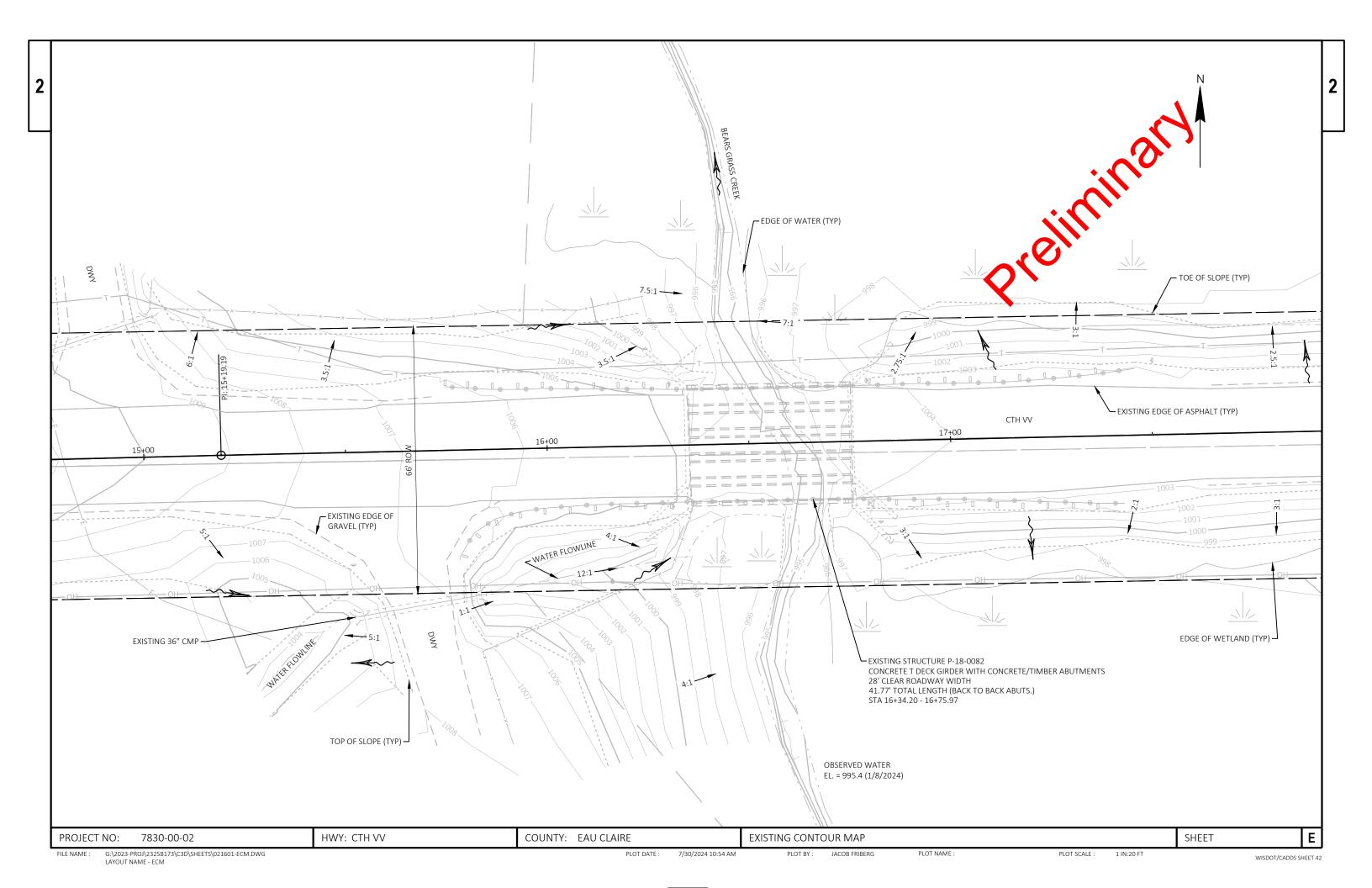
TOTAL PROJECT AREA = 0.75 ACRES

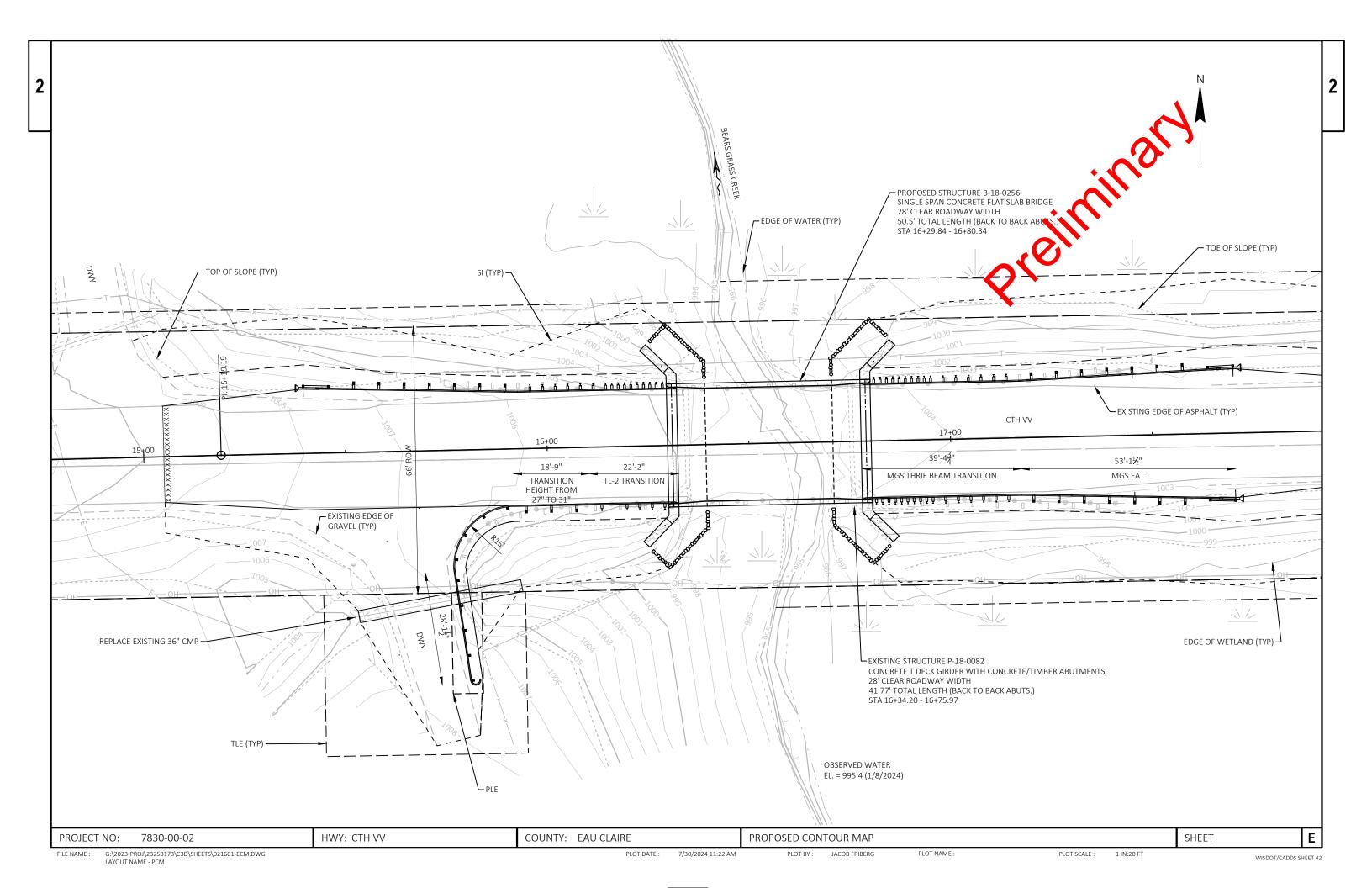
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.49 ACRES

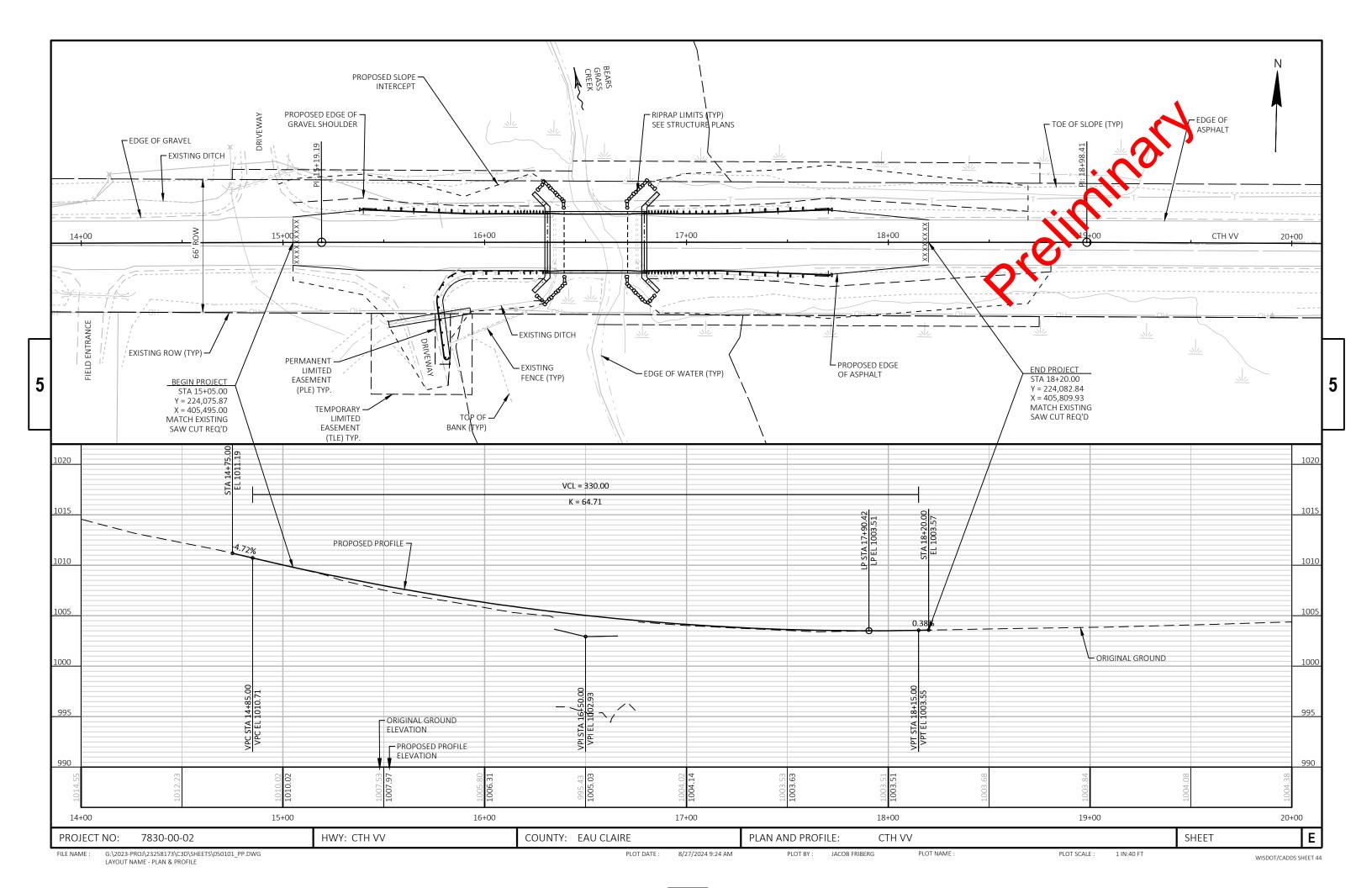
PROJECT NO: 7830-00-02 HWY: CTH VV COUNTY: EAU CLAIRE GENERAL NOTES SHEET SHEET 7/30/2024 10:11 AM PLOT BY: JACOB FRIBERG PLOT NAME: 1 IN:100 FT PLOT SCALE: 1 IN:100 FT PLOT

G:\2023-PROJ\23258173\C3D\SHEETS\020101_GN.DWG PLOT DATE: 7/30/2024 10:11 AM PLOT BY: JACOB FRIBERG PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - GENERAL NOTES









GENERAL NOTES

7830-00-72

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SENIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OF

THE UPPER LIMITS OF "EXCAVATION FOR RES B 8-0256" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL WE WHICH CANNOT BE PLACED BEFORE ABUTMENT PIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH CONSTRUCTION AND IS NOTO STRUCTURE BACKFILL TYPE

EXCAVATION BELOW THE ABUL MENT AND ABUTMENT BEDDING MATERIALS REQUIRES
ENGINEER APPROVAL GEG TEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND

CKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP OTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN CCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB. THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF PARAPET

CROSS SECTION THRU ROADWAY

30'-103/4"

OUT TO OUT OF SUPERSTRUCTURE

28'-0"

CLEAR BETWEEN BARRIERS

11'-0"

LANE

C/L CTH VV

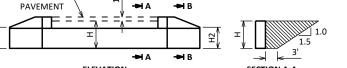
2.00%

TOP OF BERM

11'-0"

LANE

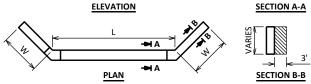
POINT REFERRED TO ON -PROFILE GRADE LINE



1'-5¾"

3'-0'

SHLD.



ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT)

TOTAL ESTIMATED QUANTITIES

- = WING 2 HEIGHT AT TIP (FT)
- = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

BID ITEMS

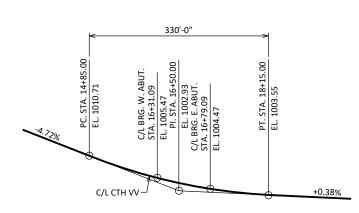
REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (P-18-0082)

- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)
- $V_{CY} = V_{CF}(EF)/27$

FILLER

TOP OF

LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)



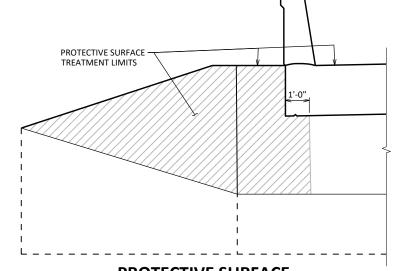
PROFILE GRADE LINE

ABUT.

TOTALS

WEST

ABUT.



1'-5%"

- SINGLE SLOPE PARAPET 42SS (TYP.)

3'-0"

SHLD.

BOTTOM OF ABUTMENT

PROTECTIVE SURFACE TREATMENT DETAILS

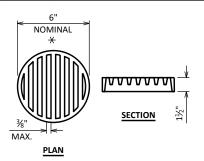
BRIDGE ROADWAY **SUPERSTRUCTURE PAVEMENT** ABUTMENT - ROADWAY SUBSURFACE BACKFACE PAY LIMITS OF BACKFILL 🗘 BACKFILL STRUCTURE TYPE A "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH

TYPICAL SECTION THRU ABUTMENT

- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE

BENCH MARK

NO.	STATION DESCRIPTION		ELEV.
1	21+33	33' RT; GPS MONUMENT (DJ4705)	1002.87

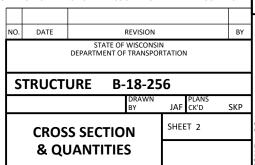


RODENT SHIELD DETAIL

★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COLIPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.1.0.0

203.0260 EACH **EXCAVATION FOR STRUCTURES BRIDGES (B-18-0256)** 206.1001 EACH BACKFILL STRUCTURE TYPE A TON 170 340 210.1500 170 CONCRETE MASONRY BRIDGES 134 190 502.0100 28 28 502.3200 PROTECTIVE SURFACE TREATMENT SY 157 16 189 PIGMENTED SURFACE SEALER 50 50 SY

502.3210 505.0400 BAR STEEL REINFORCEMENT HS STRUCTURES LB 2,200 2,200 4,400 505.0600 BAR STEEL REINFORCEMENT HS COATED STRUCTURES LB 29,900 1,520 1,520 32,940 506.0105 STRUCTURAL STEEL CARBON LB 630 630 516.0500 RUBBERIZED MEMBRANE WATERPROOFING SY 6 12 6 550.1100 PILING STEEL HP 10-INCH X 42 LB LF 606.0300 RIPRAP HEAVY CY

612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF 73 73 146 614.0150 ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD EACH 4 4 645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY 46 46 92 645.0120 GEOTEXTILE TYPE HR SY

> NON-BID ITEMS ½",¾"

UNIT

SUPER

DRAINAGE ATTACH RODENT SHIFLD AT ENDS OF PIPE UNDERDRAIN

