



Wisconsin Department of Transportation

April 21, 2022

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #10: 1320-22-70
Elkhorn – Burlington
Indian Run Cr 0.7 MI E Claussen Rd
STH 11
Walworth County

3180-00-77
Elkhorn – Burlington
E of Lyons to E of Spring Valley Dr
STH 11
Walworth County

Letting of May 10, 2022

This is Addendum No. 01, which provides for the following:

Plan Sheets:

Added Plan Sheets – 1320-22-70	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
199A-199F	C-64-90 Plan Sheets

Added Plan Sheets – 3180-00-77	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
63A-63E	C-64-8 Plan Sheets

Deleted Plan Sheets 1320-22-70	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
64 - 69	C-64-8 Plan Sheets

The full size plan sheets can be found at the following location:

<https://wisdot.box.com/s/dug33lhtg6kwih4dbhzw09lodia7ccc6> or can be accessed on the HCCI May bid letting page under Supplemental Information.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

1320-22-70

Added: 199A – 199F

Deleted: 64 – 69

3180-00-77

Added: 63A – 63E

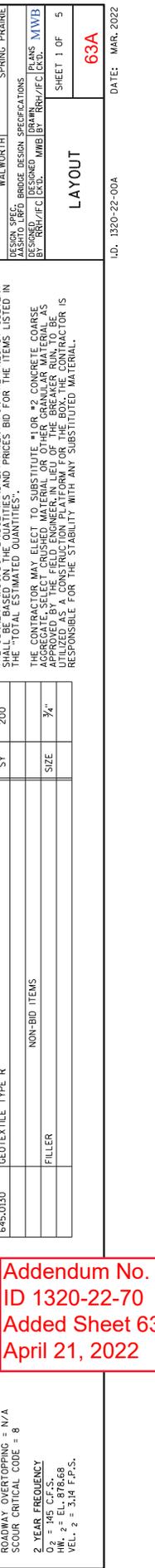
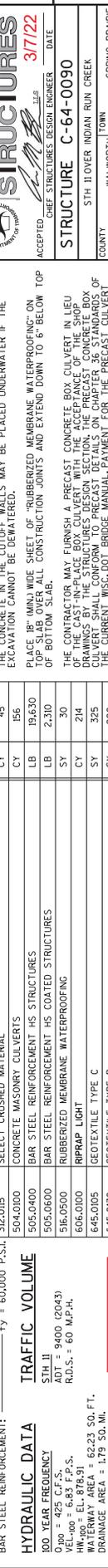
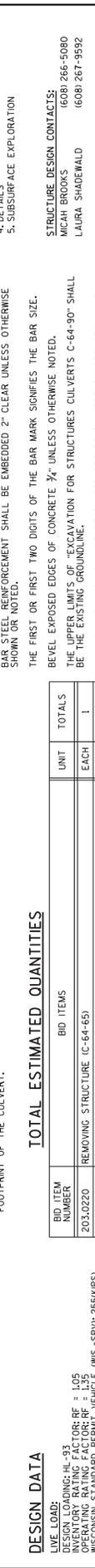
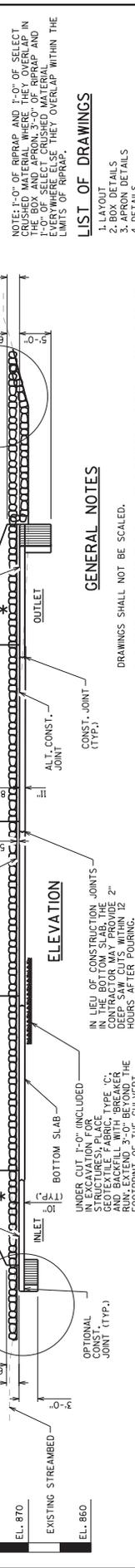
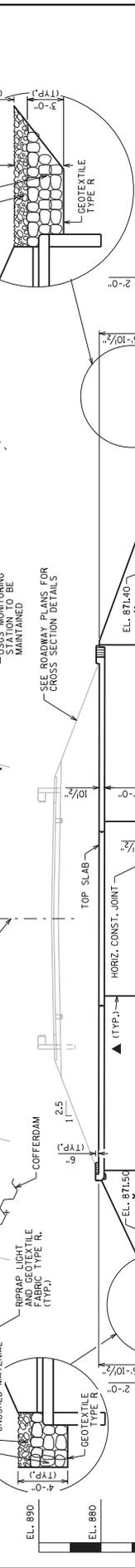
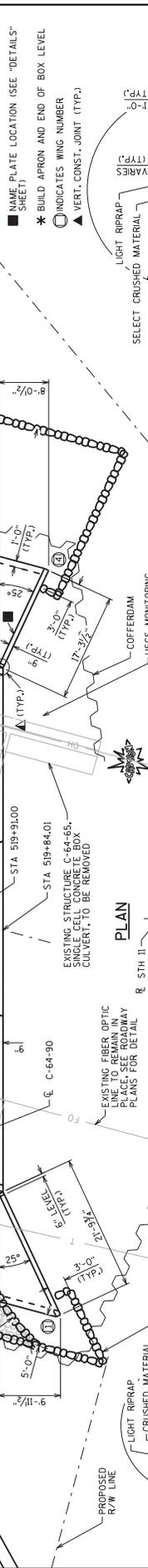
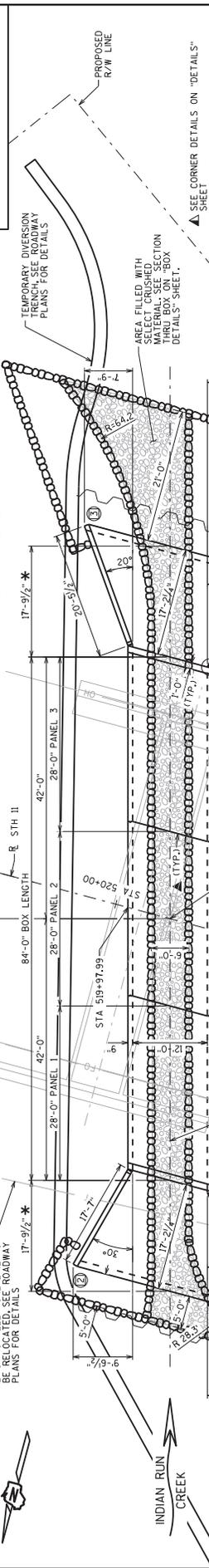
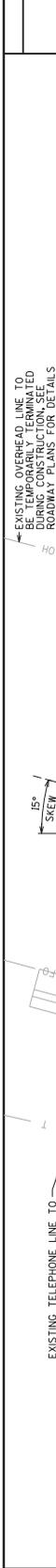
The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM



NOTE: 1'-0" OF RIPRAP AND 1'-0" OF SELECT CRUSHED MATERIAL SHALL BE OVERLAP IN THE BOX AND APRON. 3'-0" OF RIPRAP AND 1'-0" OF SELECT CRUSHED MATERIAL SHALL BE OVERLAP WITHIN THE LIMITS OF RIPRAP.

LIST OF DRAWINGS

- LAYOUT
- BRIDGE DETAILS
- APRON DETAILS
- DETAILS
- SUBSURFACE EXPLORATION

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES C-64-90" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WINGWALLS. THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE Dewatered.

PLACE 18" MINIMUM WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO 6" BELOW TOP OF BOTTOM SLAB.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE ENGINEER. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE TOTAL ESTIMATED QUANTITIES.

THE CONTRACTOR SHALL FURNISH 1108 #2 CONCRETE COARSE AGGREGATE TO BE USED IN THE CONCRETE FOR OTHER GRANULAR MATERIALS APPROVED BY THE FIELD ENGINEER. IN LIEU OF THE BREAKER RUN TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX, THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY WITH ANY SUBSTITUTED MATERIAL.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0220	REMOVING STRUCTURE (C-64-65)	EACH	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS (C-64-90)	LS	1
206.5000	COFFERDAMS (C-64-90)	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1590
310.015	BREAKER RUN	CY	244
504.0100	SELECT CRUSHED MATERIAL	CY	45
505.0400	CONCRETE MASONRY CULVERTS	CY	65
505.0600	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	19,630
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	LB	2,310
606.0100	RIPRAP LIGHT	SY	30
645.0105	GEOTEXTILE TYPE C	CY	214
645.0130	GEOTEXTILE TYPE R	SY	200
	FILLER	SIZE	3/4"
	NON-BID ITEMS		

DESIGN DATA

LIVE LOAD: HS-20

DESIGN SPEED: 55 MPH

WIND LOAD FACTOR: RF = 1.05

OPERATING RATING FACTOR: RF = 1.35

WISCONSIN STANDARD PERMIT VEHICLE (WS-SPV): 255(KIPS)

EARTH LOAD: 7 TO 8 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY: $f_c = 3,500$ P.S.I.

BAR STEEL REINFORCEMENT: $f_y = 60,000$ P.S.I.

TRAFFIC VOLUME

STH II

$AOT = 9400$ (2043)

R.D.S. = 60 M.P.H.

HYDRAULIC DATA

$Q_{100} = 425$ C.F.S.

$V_{100} = 6.83$ F.P.S.

HW-100 = EL. 878.91

WATERWAY AREA = 62.23 SQ. FT.

BRIDGE INVERT ELEVATION = 878.91 SQ. FT.

SCOUR CRITICAL CODE = 8

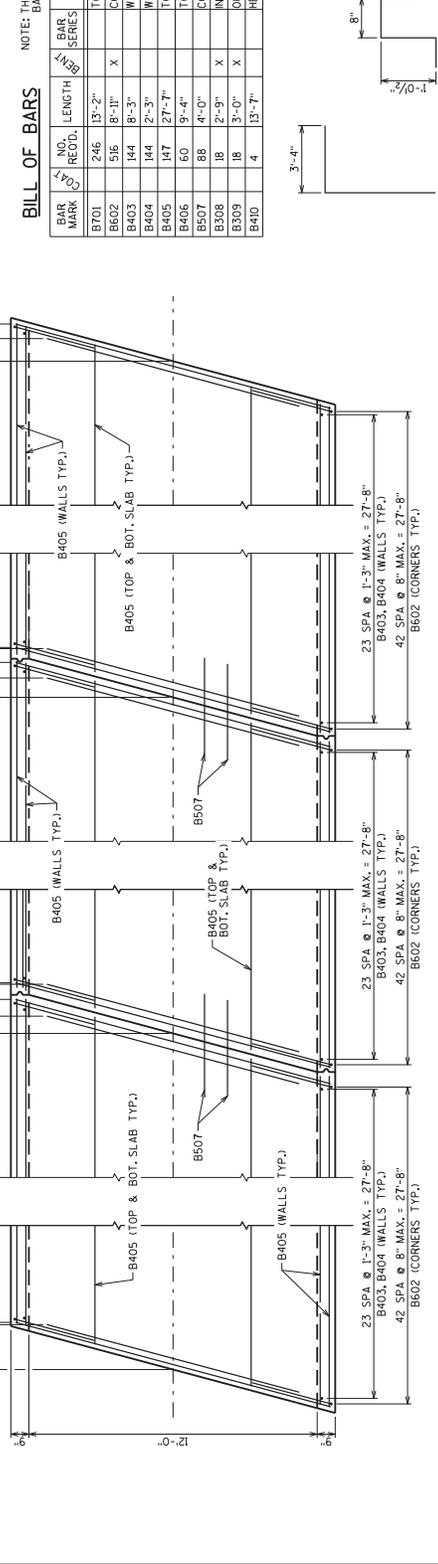
2-YEAR FREQUENCY

$O_2 = 145$ C.F.S.

HW_2 = EL. 878.68

VEL_2 = 3.14 F.P.S.

Addendum No. 01
ID 1320-22-70
Added Sheet 63A
April 21, 2022



PLAN
APRON AND HEADERS NOT SHOWN

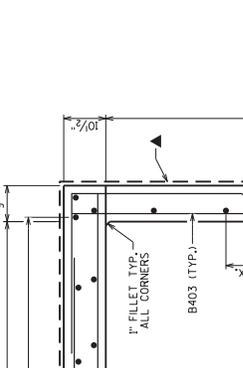
BILL OF BARS
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	NO. REQ'D	LENGTH	BENT SERIES	LOCATION
B701	246	13'-2"		TOP & BOT. SLAB - HORIZ.
B602	516	8'-11"	X	CORNERS - VERT.
B403	144	8'-3"		WALLS - VERT.
B404	144	2'-3"		WALLS - VERT. - DOMELS
B405	147	27'-7"		TOP & BOT. SLAB & WALLS - LONGIT. - ALL PANELS
B406	60	9'-4"		TOP SLAB - TRANSV.
B507	88	4'-0"		CONST. JOINT - DOMELS
B308	18	2'-9"	X	INLET HEADER - STIRRUPS
B309	18	3'-0"	X	OUTLET HEADER - STIRRUPS
B410	4	13'-7"		HEADERS - HORIZ.



B602 **B308** **B309**

SECTION THRU BOX
SHOWING AREA OF RIPRAP AND SELECT CRUSHED MATERIAL



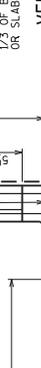
SECTION THRU INLET HEADER
BEVEL TO EXTEND BETWEEN INSIDE FACES OF B308 & 3" INLET. BEVEL B309 & 3" OUTLET INLET END ONLY.



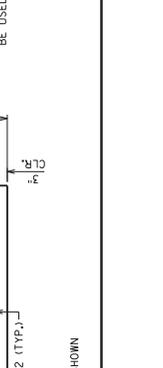
SECTION THRU INLET HEADER
BEVEL TO EXTEND BETWEEN INSIDE FACES OF B308 & 3" INLET. BEVEL B309 & 3" OUTLET INLET END ONLY.



VERTICAL CONSTRUCTION JOINT
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



SECTION THRU BOX
ALL LONGITUDINAL BARS NOT LABELED ARE B405 AS SHOWN



SECTION THRU BOX
ALL LONGITUDINAL BARS NOT LABELED ARE B405 AS SHOWN

Addendum No. 01
ID 1320-22-70
Added Sheet 63B
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SELECT CRUSHED MATERIAL

12'-0"

6'-0"

8"

12'-0"

6'-0"

8"

1'-0 1/2"

8"

2/10-1"

8"

12'-0"

6'-0"

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2/10-1"

8"

8

8

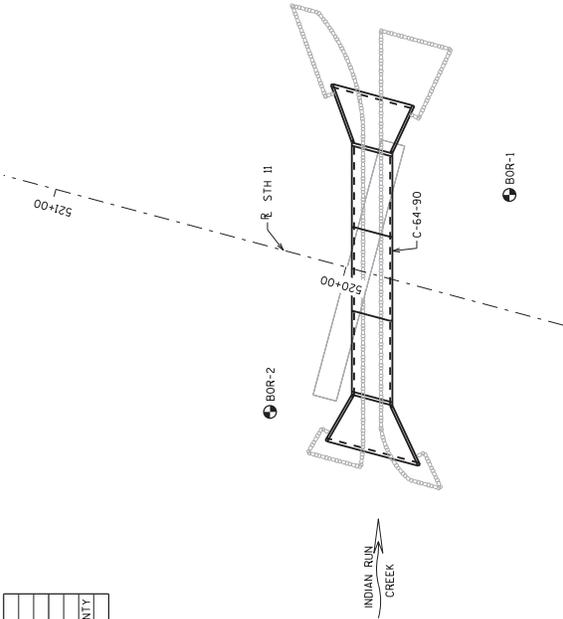
8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	3/29/2010	369637	81413
2	3/30/2010	369727	81472

BORINGS COMPLETED BY: WISDOT
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) WALWORTH COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



Addendum No. 01
 ID 1320-22-70
 Added Sheet 63E
 April 21, 2022



STATE PROJECT NUMBER
1320-22-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS	LIMESTONE	BEDROCK (UNKNOWN)
COBBLES	SANDSTONE	IGNEOUS/META
SHALE		

LEGEND OF BORING

UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSP)
 UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON A 60 LB. HAMMER. TEST 'N' VALUES THAT HAVE NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION
 ∇ AT TIME OF DRILLING
 ∇ AFTER DRILLING

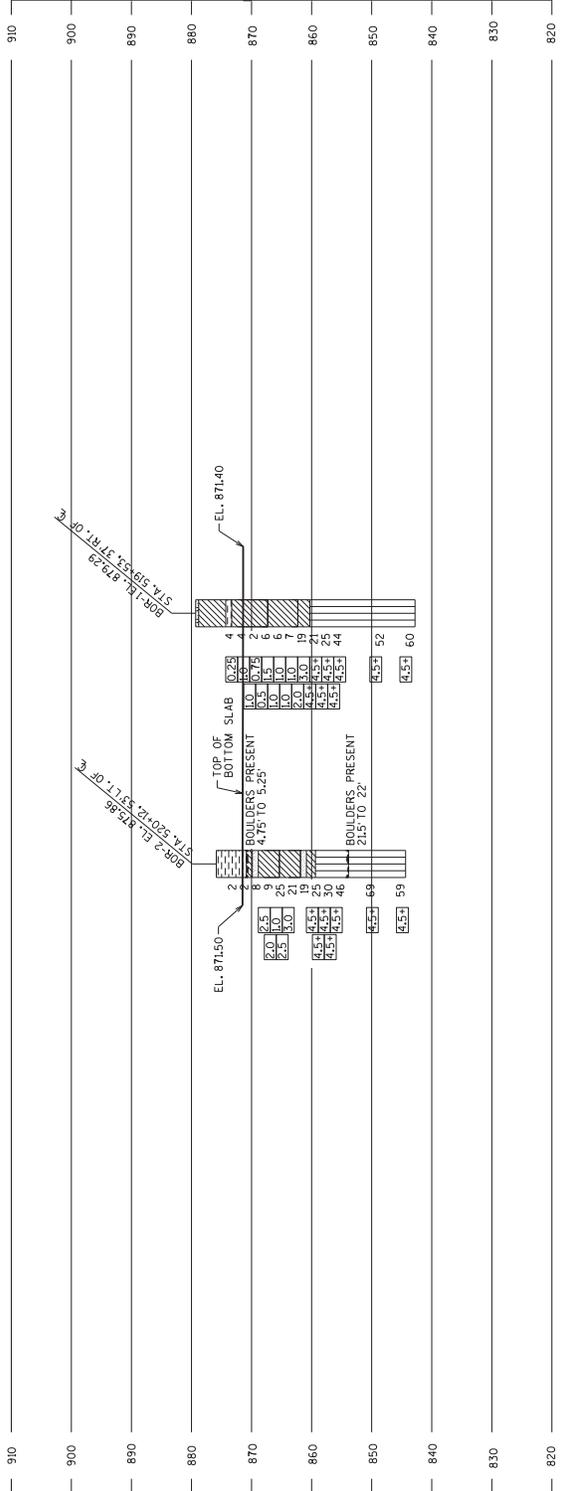
ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BORINGS INFORMATION
 BORINGS WERE OBTAINED TO A DEPTH OF APPROXIMATELY 45' INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED AREAS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT GUARANTEE THE ACCURACY OF THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO. DATE REVISION BY

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN SECTION
 STRUCTURE C-64-90
 DRAWN BY: TLP/RRH | CHECKED BY: MVB

SUBSURFACE EXPLORATION
 SHEET 5
63E



Addendum No. 01
ID 3180-00-77
Added Sheet 199B
April 21, 2022

WISDOT ITEM NUMBER	BID ITEMS	AMOUNT
203-0220	REMOVING STRUCTURE C-64-8	1 EACH
206-2000	EXCAVATION FOR STRUCTURES CULVERTS C-64-8	1 LS
210-1500	BACKFILL STRUCTURE TYPE A	190 TON
311-0110	BREAKER RUN	4 TON
502-4205	ADHESIVE ANCHORS NO. 5 BAR	31 CY
504-0100	CONCRETE MASONRY CULVERTS	800 LB
505-0400	BAR STEEL REINFORCEMENT HS STRUCTURES	1,700 LB
505-0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	100 SF
511-1200	CONCRETE SURFACE REPAIR	925 SF
516-0500	TEMPORARY SHORING C-64-8	10 SY
606-0300	RIPRAP HEAVY	20 CY
645-0105	GEOTEXTILE TYPE C	7 SY
645-0120	GEOTEXTILE TYPE HR	42 SY

TOTAL ESTIMATED QUANTITIES

GENERAL NOTES

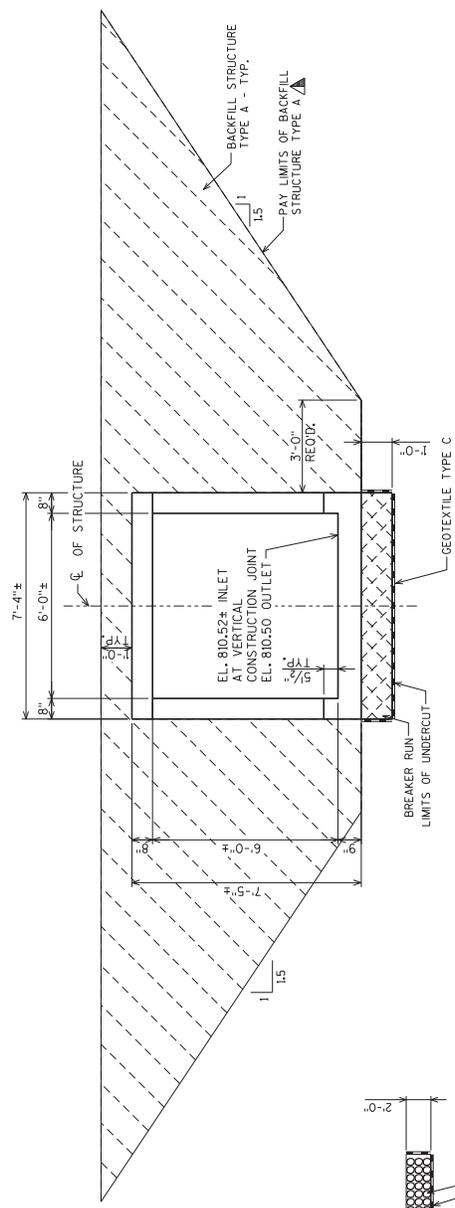
DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
 THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFY THE BAR SIZE. JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.
 THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS" SHALL BE THE EXISTING GROUND LINE.
 THE ALTERNATE METHOD OF WALL MAY BE USED IN LIEU OF THE CAST IN PLACE CONCRETE WALLS. PAYMENT SHALL BE BASED ON THE CONCRETE CUTOFF WALLS.
 IF THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.
 THE EXISTING STRUCTURE, C-64-8, IS A SINGLE-CELL 6'-0" x 6'-0" CONCRETE BOX CULVERT WITH A BARREL LENGTH OF 82'-0".
 REMOVING STRUCTURE C-64-8, INCLUDES REMOVING EXISTING WINGS 3 AND 4 AND EXISTING OUTLET TO THE LIMITS SHOWN IN THESE PLANS.
 DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. THE CONTRACTOR SHALL ADJUST THE DIMENSIONS OF THE BOX CELL OPENING TO MATCH THE EXISTING CULVERT.
 ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.
 FILLET THE FORMS WITH 3/4" INCH TRIANGULAR MOLDING CHAMFER STRIPS AT ALL EXPOSED, SHARP CORNERS AND AT THE EDGES OF THE CONCRETE, UNLESS SPECIFIED OTHERWISE.
 WITHIN THE LENGTH OF THE BOX ALL SPACES EXCAVATED AND NOT OCCUPIED BY STRUCTURE SHALL BE FILLED WITH CONCRETE TO MATCH THE STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE CULVERT.
 THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED ON THE BOX CULVERT SIDES AND BEHIND APRON WINGWALLS FOR 3-FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.
 UNDER CUT 1'-0" EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN" "BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM. THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

NON-BID ITEMS

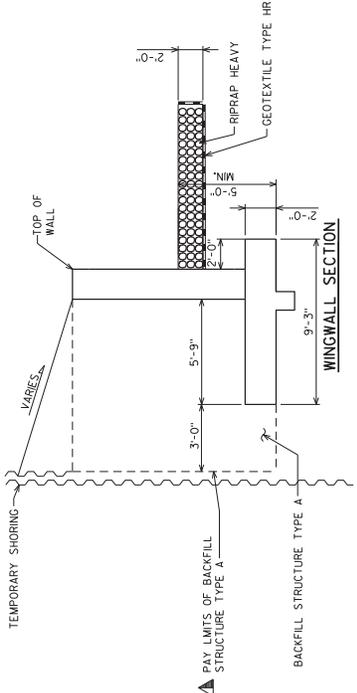
FILLER _____

3/4" SIZE _____

EXISTING JOINT AT INTERIOR OF CULVERT AND UNDISTRIBUTED, AS DIRECTED BY THE ENGINEER IN THE FIELD.



TYPICAL SECTION THRU BOX EXTENSION
NOTE: MATCH EXISTING CULVERT OPENING



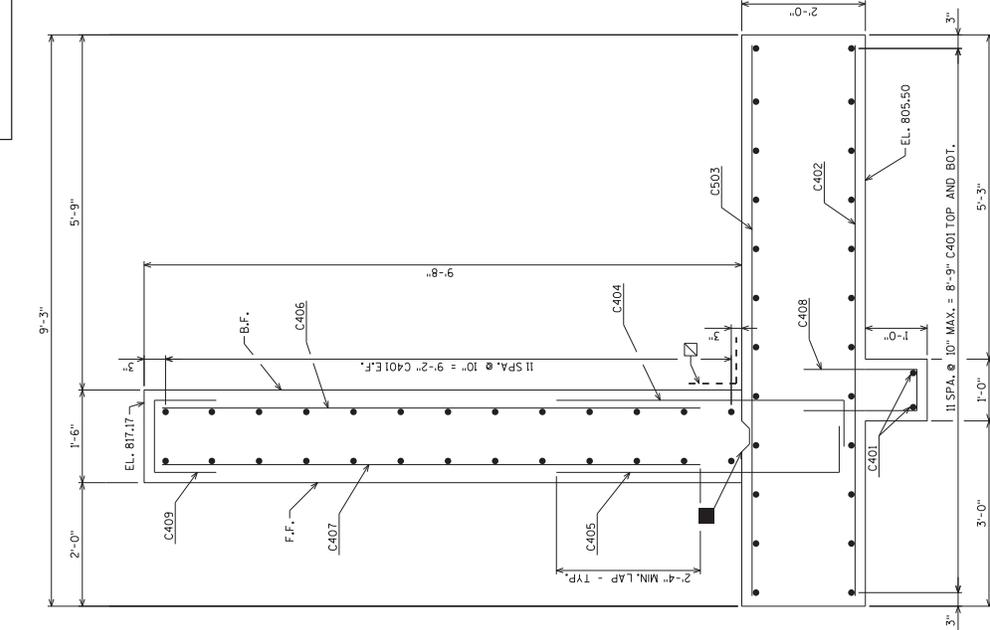
WINGWALL SECTION

BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-64-8			
DRAWN BY: JLB			PLANS FOR: JCK
SHEET 2 OF 6			199B
QUANTITIES AND NOTES			

ORIGINAL PLANS PREPARED BY
3433 Oakwood Hills Parkway
Madison, WI 53711
www.avres.com



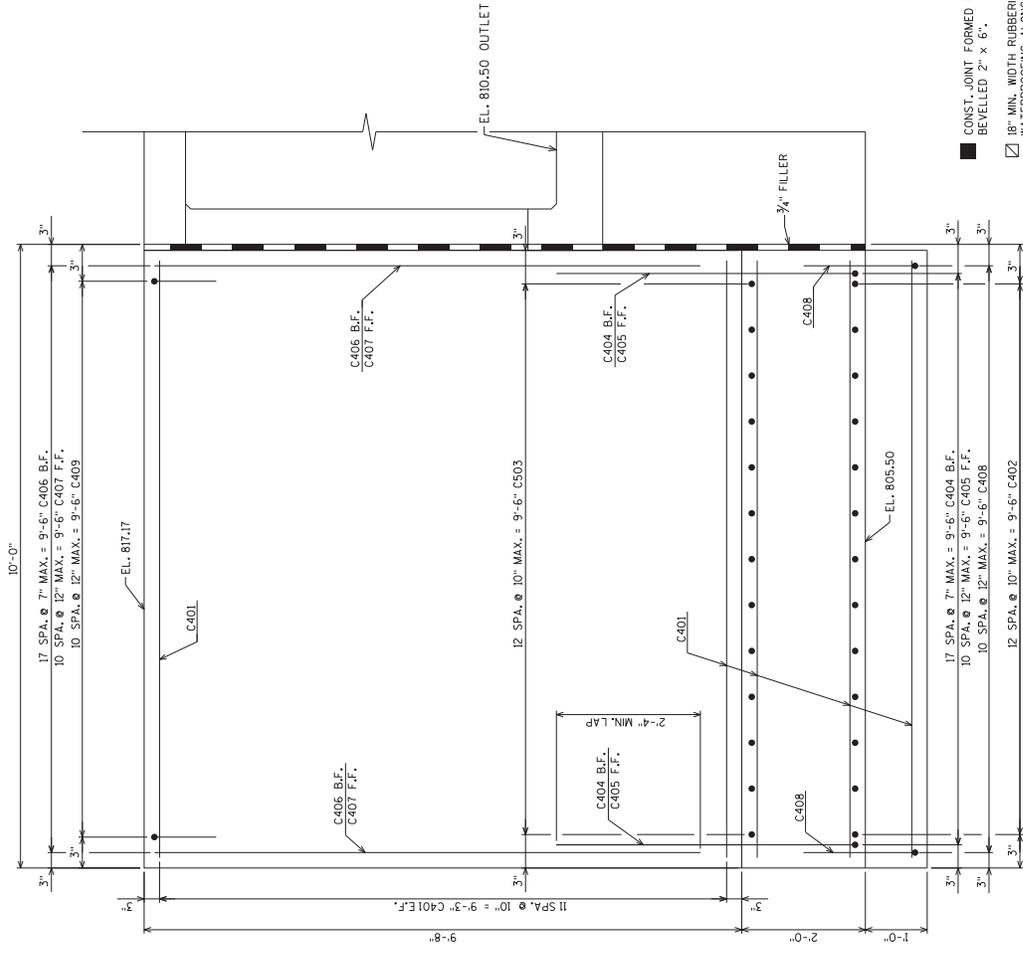


TYP. SECTION THRU WING

- CONST. JOINT FORMED BY A SURFACE BEVELLED 2" x 6".
- ☑ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING
- E.F. DENOTES EACH FACE
- F.F. DENOTES FRONT FACE
- B.F. DENOTES BACK FACE

NOTE: WINGWALLS ARE SYMMETRICAL ABOUT C. OF STRUCTURE UNLESS SHOWN OTHERWISE.

ELEVATION - WING 4
(WING 3 SIMILAR)



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-64-8			PLANS FACD - JCK
WINGWALLS DETAILS			SHEET 4 OF 6
ORIGINAL PLANS PREPARED BY 3433 Oakwood Hills Parkway Eau Claire, WI 54601 www.avres.com			199D

Addendum No. 01
ID 3180-00-77
Added Sheet 199D
April 21, 2022

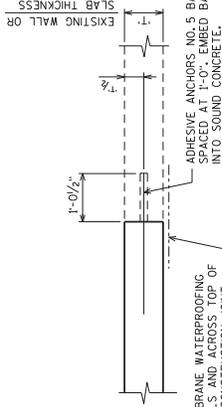
NOTE: CULVERT SYMMETRICAL ABOUT C.C. OF STRUCTURE UNLESS SHOWN OR NOTED OTHERWISE.

⊕ ADJUST AS NECESSARY TO MATCH THE OPENINGS OF THE EXISTING CULVERT

ALL LONGITUDINAL BARS IN WALLS TO BE LAP SPICED UNLESS SHOWN OTHERWISE

9/30/2021 PENITABLE: BReou.snd.u.h.l.tb

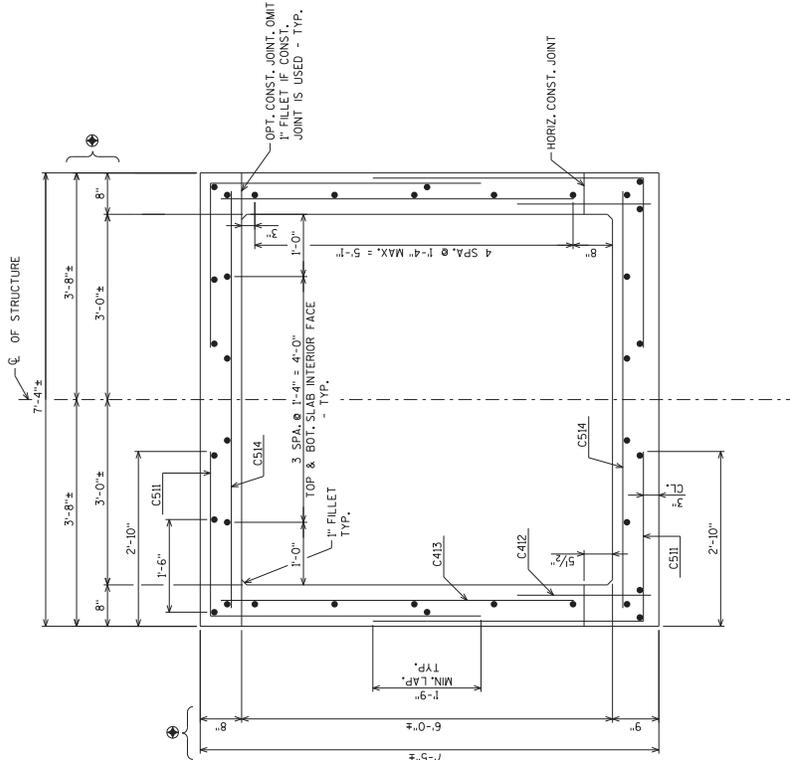
STATE PROJECT NUMBER
3180-00-77



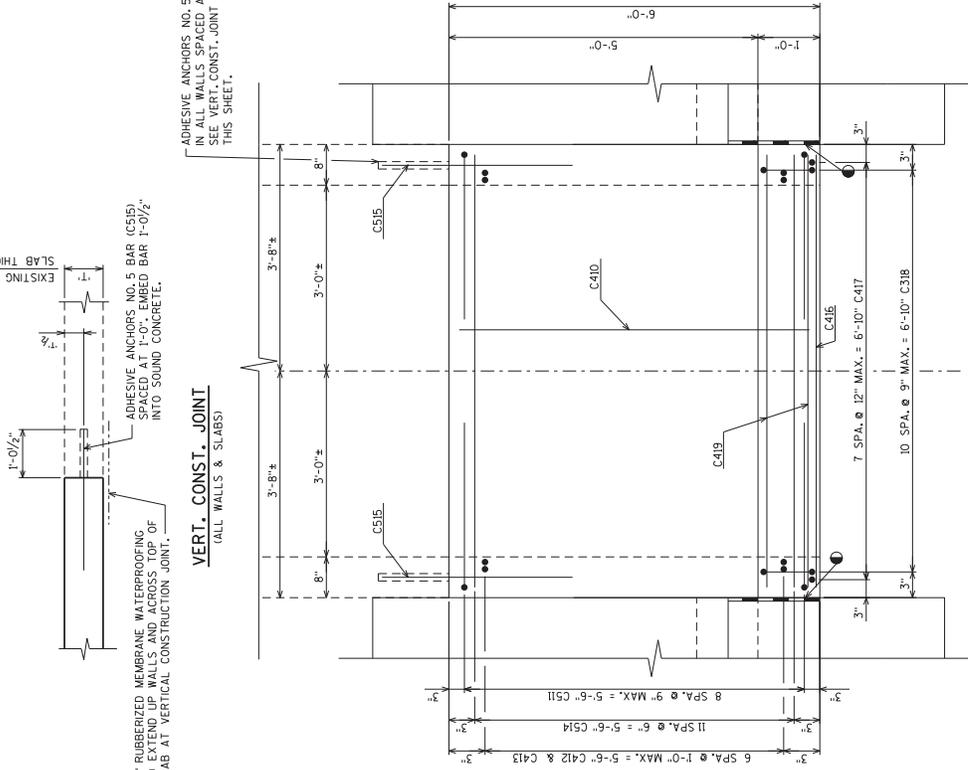
18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND UP WALLS AND ACROSS TOP OF SLAB AT VERTICAL CONSTRUCTION JOINT.

VERT. CONST. JOINT
(ALL WALLS & SLABS)

ADHESIVE ANCHORS NO. 5 BAR (C515) IN ALL WALLS SPACED AT 1'-0" TYP. SEE VERT. CONST. JOINT DETAIL ON THIS SHEET.



TYPICAL SECTION THRU BOX



PLAN OF CULVERT

⊕ 3/4" FILLER TO EXTEND FROM BOTTOM OF FOOTING TO TOP OF WING.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-64-8			
DRAWN BY: JLB		PLANS CHECKED: JCK	
BOX DETAILS			SHEET 5 OF 6
199E			

ORIGINAL PLANS PREPARED BY
3433 Oakwood Hills Parkway
Eau Claire, WI 54601
www.avres.com

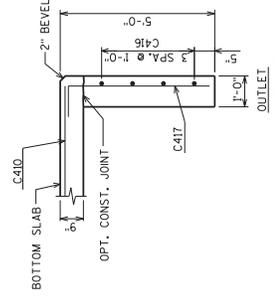
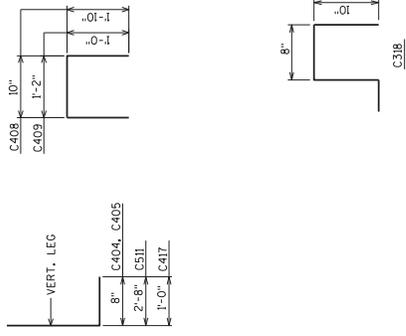


Addendum No. 01
ID 3180-00-77
Added Sheet 199E
April 21, 2022

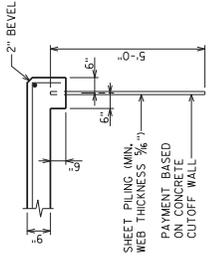
BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	LOCATION
C401	X	100	9'-8"				WINGWALL HORIZONTAL
C402	X	26	8'-11"				WINGWALL FOOTING BOTTOM
C503	X	26	8'-11"				WINGWALL FOOTING TOP
C404	X	36	5'-5"	X			WINGWALL STEM DOWEL BACK FACE
C405	X	22	5'-5"	X			WINGWALL STEM DOWEL FRONT FACE
C406	X	36	8'-10"				WINGWALL STEM BACK FACE VERTICAL
C407	X	22	8'-10"				WINGWALL STEM FRONT FACE VERTICAL
C408	X	22	4'-4"	X			WINGWALL SHEAR KEY
C409	X	22	3'-0"	X			WINGWALL STEM TOP
C410		36	5'-8"				BOX CULVERT LONGITUDINAL
C511		36	6'-11"	X			BOX CULVERT CORNERS
C412		14	2'-1"				BOX CULVERT WALL DOWEL
C413		14	6'-0"				BOX CULVERT WALL
C514		24	7'-0"				BOX CULVERT TOP AND BOTTOM SLAB
C515		28	3'-1"				BOX CULVERT ADHESIVE ANCHOR
C416		4	7'-0"				CUTOFF WALL HORIZONTAL
C417		8	5'-6"	X			CUTOFF WALL VERTICAL
C318		10	2'-7"	X			HEADER VERTICAL
C419		2	7'-0"				HEADER HORIZONTAL

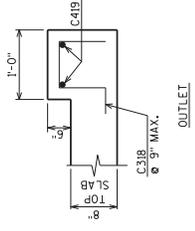
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



SECTION THRU CUTOFF WALL



SECTION THRU ALTERNATE CUTOFF WALL



HEADER DETAILS

Addendum No. 01
ID 3180-00-77
Added Sheet 199F
April 21, 2022

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-64-8			FRANK JCK
DRAWN BY: JLB			DATE: 10/11/07
DETAILS AND BILL OF BARS			SHEET 6 OF 6
			199F

ORIGINAL PLANS PREPARED BY
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