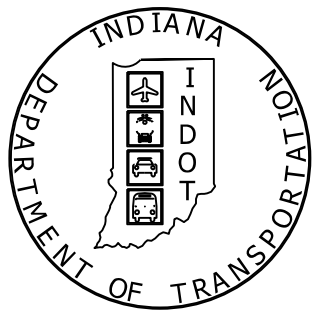


PROJECT	DESIGNATION
1006266	1006266
CONTRACT	BRIDGE FILE
B-35450	052-70-10277

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
052-70-10277	CONTINUOUS REINF. CONCRETE SLAB BRIDGE	3 SPANS: 27'-0", 36'-0", 27'-0" SKEW: 00°00'00"	MUD CREEK	458+17, LINE "A"

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

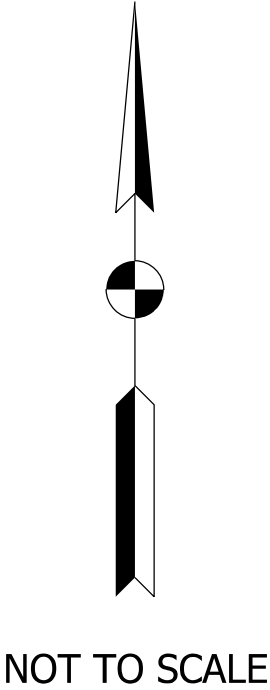
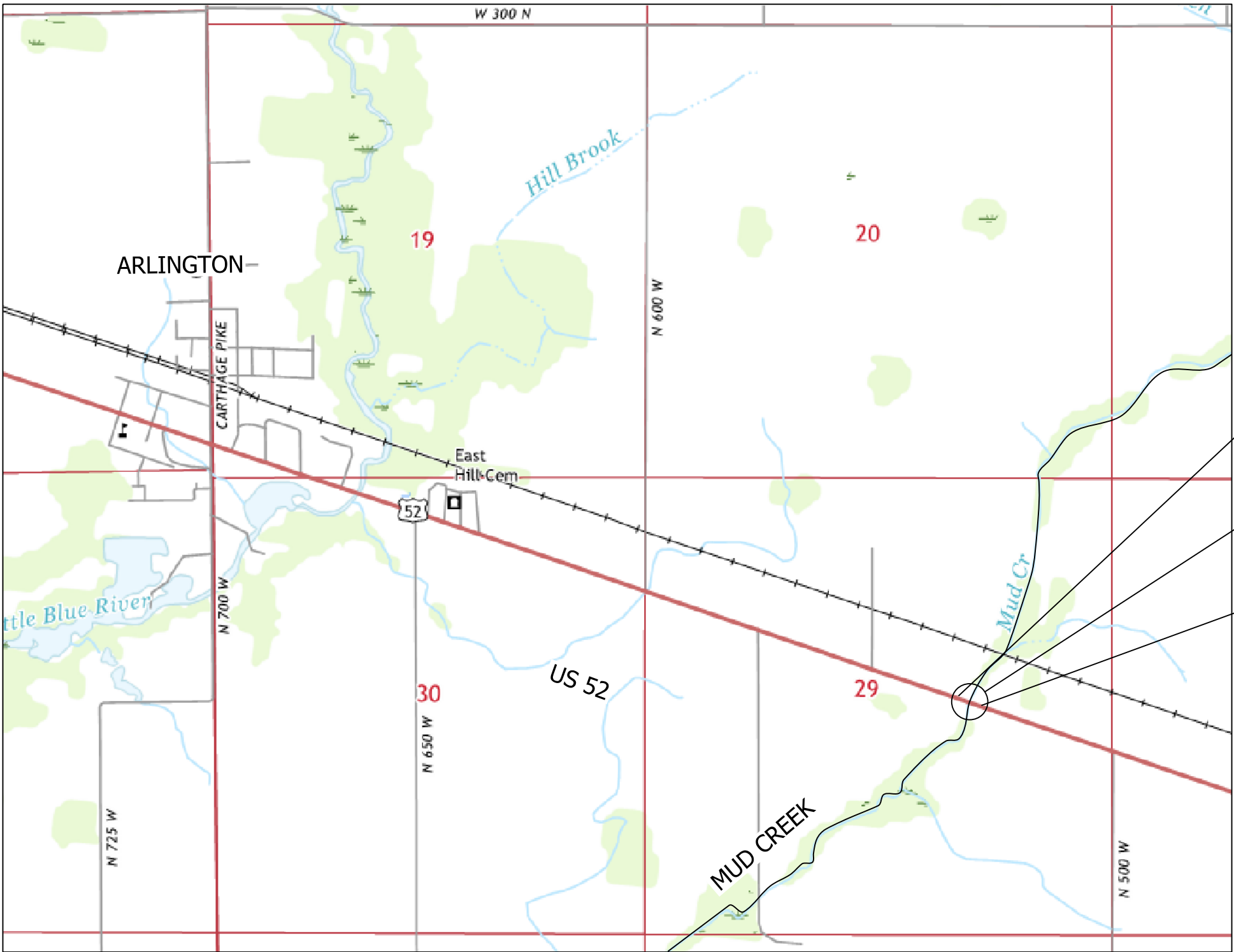
FOR SPANS OVER 20 FEET

ROUTE: US 52 AT: RP 119+92

PROJECT NO. 1006266 (P.E., CONST.)

NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

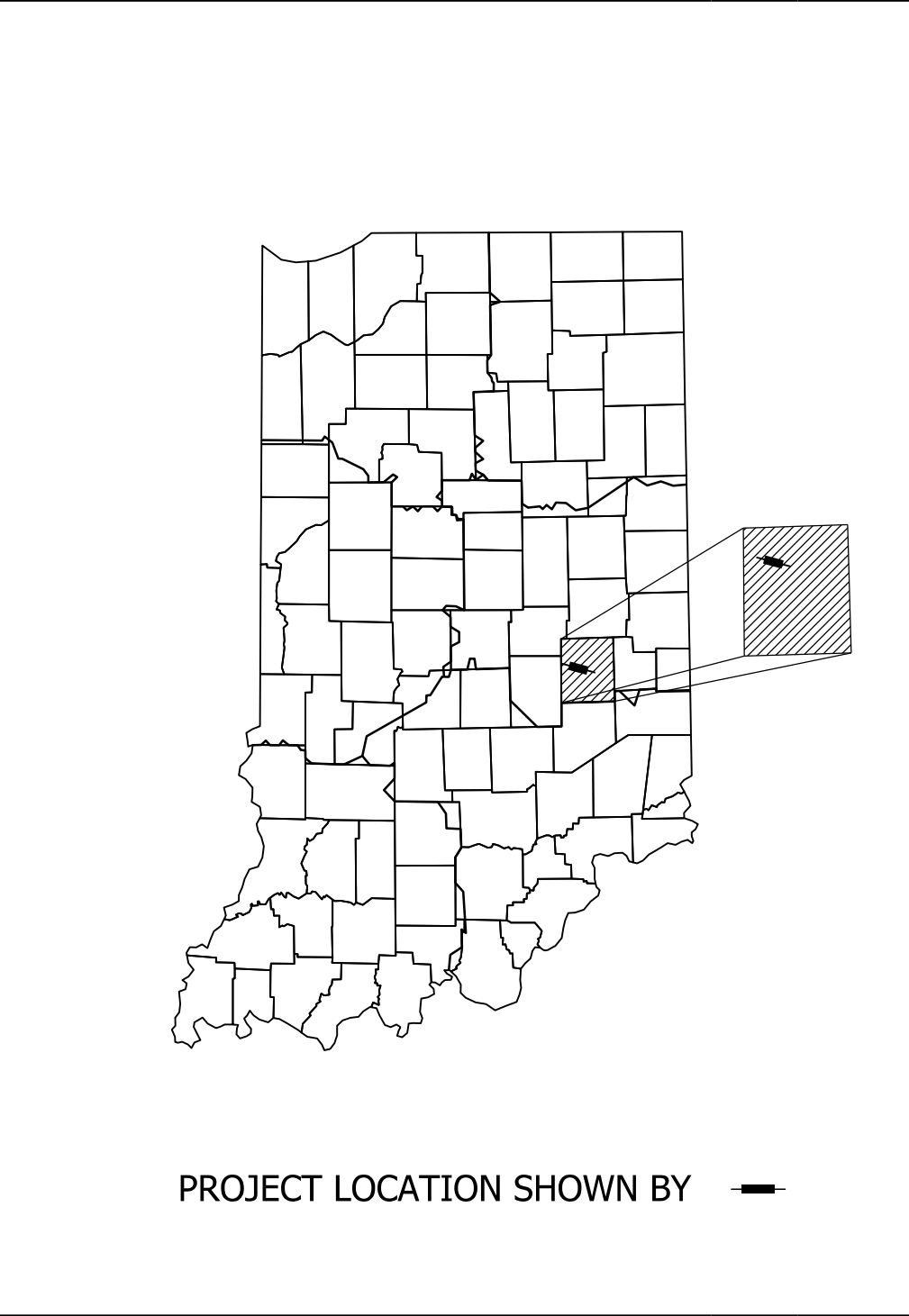
NEW BRIDGE CONSTRUCTION ON US 52 OVER MUD CREEK, LOCATED
APPROXIMATELY 5.46 MILES WEST OF SR 44, IN SECTION 29, T-14-N,
R-9-E, POSEY TOWNSHIP, RUSH COUNTY, INDIANA.



NOT TO SCALE

TRAFFIC DATA			
A.A.D.T.	2020	3371	V.P.D.
A.A.D.T.	2040	3739	V.P.D.
D.H.V.	2040	366	V.P.H.
DIRECTIONAL DISTRIBUTION		50.26	%
TRUCKS		11.57	% A.A.D.T.
		10.43	% D.H.V.

DESIGN DATA	
DESIGN SPEED	55 MPH
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	N/A



PROJECT LOCATION SHOWN BY

LATITUDE: 39° 37' 59" LONGITUDE: 85° 32' 41"

BRIDGE LENGTH:	0.017	MI.
ROADWAY LENGTH:	0.058	MI.
TOTAL LENGTH:	0.075	MI.
MAX. GRADE:	± 0.50	%

HYDROLOGIC UNIT CODE: 05120205040040

NOTE TO REVIEWER

PLEASE SEE
CORRESPONDENCE FILE
FOR DOCUMENTATION OF
DESIGN DECISIONS

STAGE 3 PLANS
MARCH 27, 2020

LOCATION MAP
(RUSH COUNTY)

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.



HNTB Indiana, Inc.
The HNTB Companies
Infrastructure Solutions
111 Monument Circle
Suite 1200
Indianapolis, IN 46204

DRAFT
NOT FOR CONSTRUCTION

PLANS
PREPARED BY: HNTB Indiana, Inc. (317) 636-4682
PHONE NUMBER
CERTIFIED BY: DATE
APPROVED
FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
052-70-10277	
DESIGNATION	
1006266	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 64
CONTRACT	PROJECT
B-35450	1006266

UTILITIES

COMMUNICATION:

FRONTIER COMMUNICATIONS
STEVE COSTLOW
20905 HAGUE ROAD
NOBLESVILLE, IN 46062
317-984-9010

INDEX

SHEET NO.	SUBJECT
1	TITLE SHEET
2	INDEX
3	TYPICAL CROSS SECTIONS
4-7	CONSTRUCTION SEQUENCE
8	FOUNDATION PLAN
9	PLAN AND PROFILE
10	CONSTRUCTION DETAILS
11	EROSION CONTROL DETAILS
12	EROSION CONTROL SOIL MAP
13	MAINTENANCE OF TRAFFIC
14-19	SOIL BORINGS
20	LAYOUT
21-22	GENERAL PLAN
23-26	END BENT DETAILS
27	WINGWALL DETAILS
28-36	PIER DETAILS
37-50	SUPERSTRUCTURE DETAILS
51-52	RAILING DETAILS
53-59	APPROACH SLAB DETAILS
60	BRIDGE SUMMARY
61	ROAD SUMMARY
62-64	CROSS SECTIONS

REVISIONS

[illegible]

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED
FOR APPROVAL

FOR APPROVAL _____
DESIGN ENGINEER DATE _____

DESIGNED: JWC	DRAWN: CVH
---------------	------------

CHECKED: MSS CHECKED: JWC

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX

HORIZONTAL SCALE	BRIDGE FILE
------------------	-------------

HORIZONTAL SCALE	BRIDGE FILE
N/A	052-70-10277

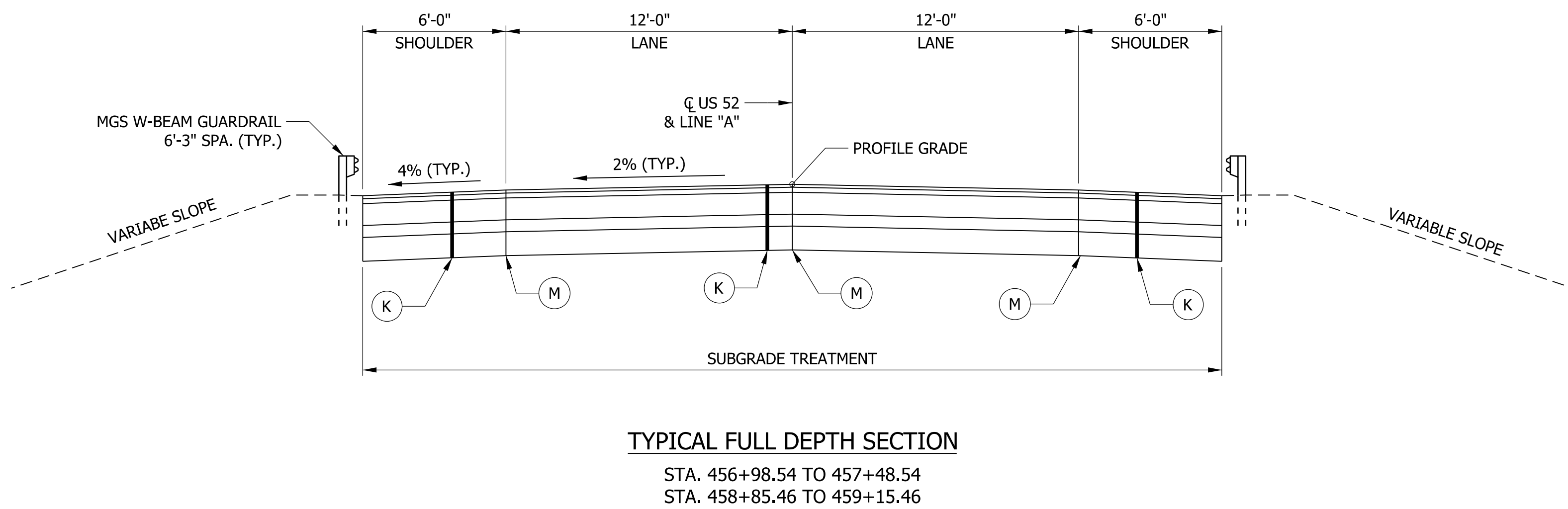
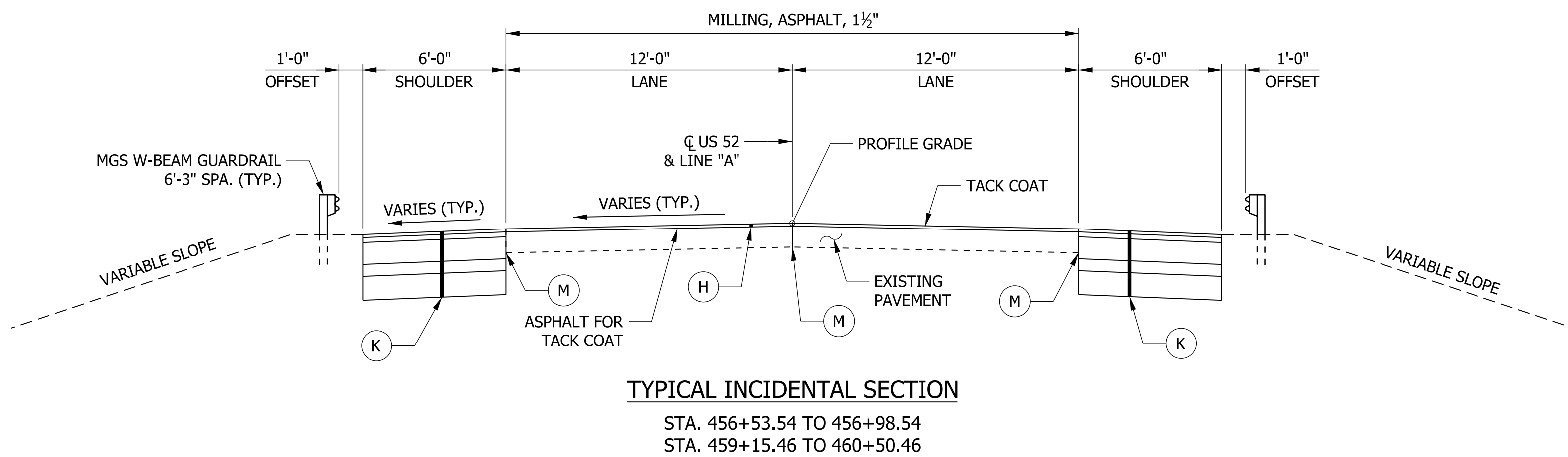
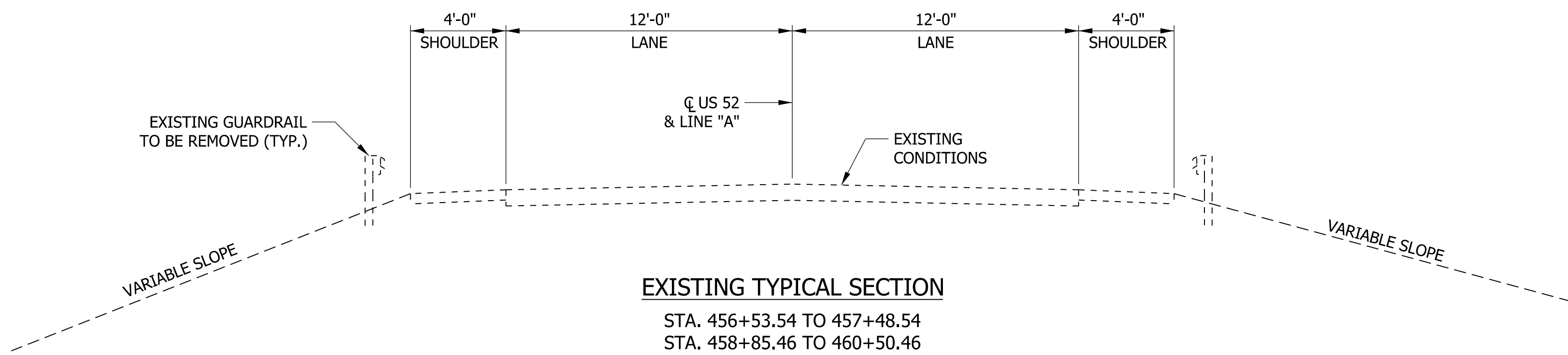
N/A	052 70 10277
VERTICAL SCALE	DESIGNATION
N/A	1006266

SURVEY BOOK	SHEETS
-------------	--------

SURVEY BOOK	SHEETS		
ELECTRONIC	2	of	6

ELECTRONIC	2	01	6
CONTRACT	PROJECT		

CONTRACT	PROJECT
B-35450	1006266

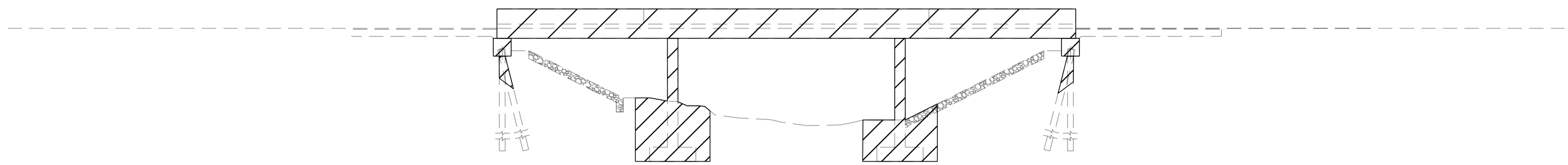
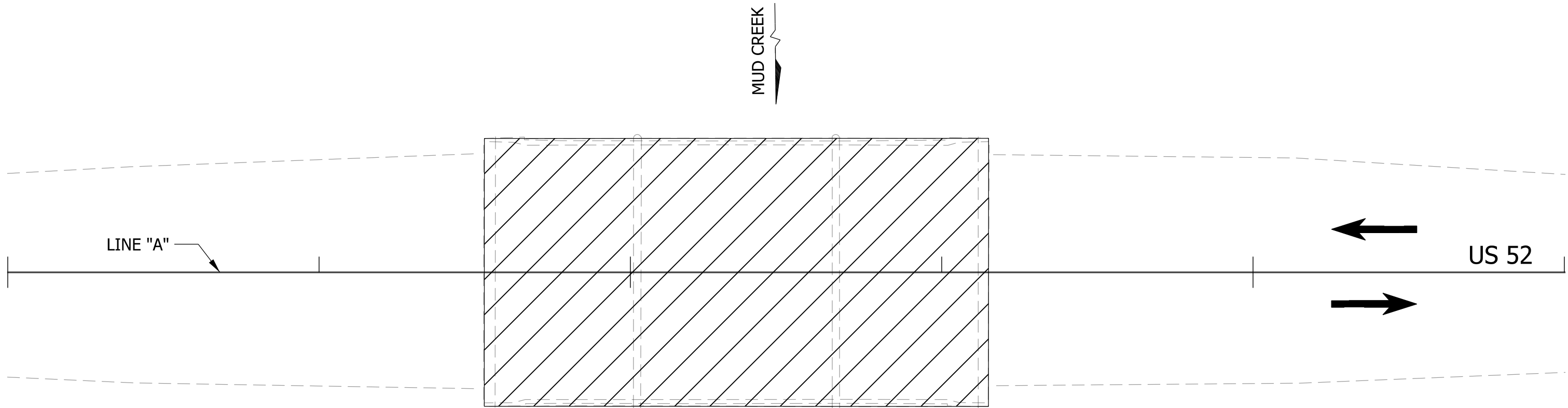
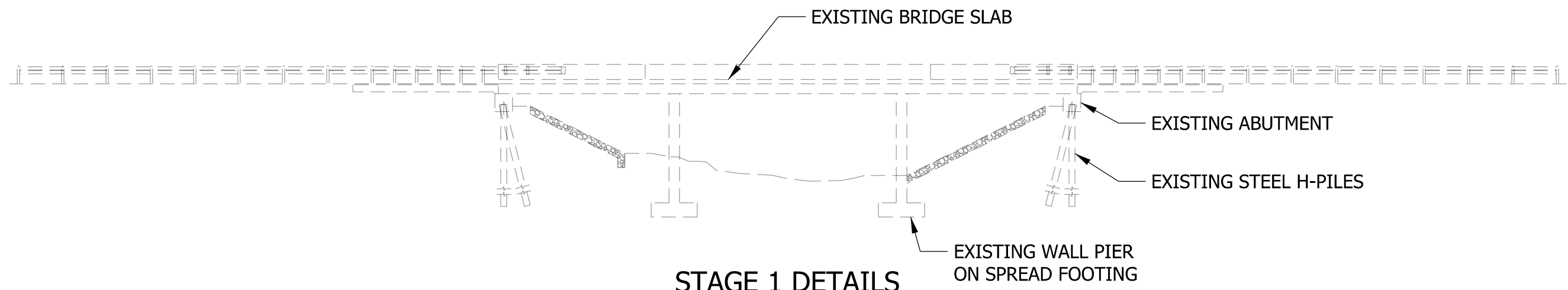
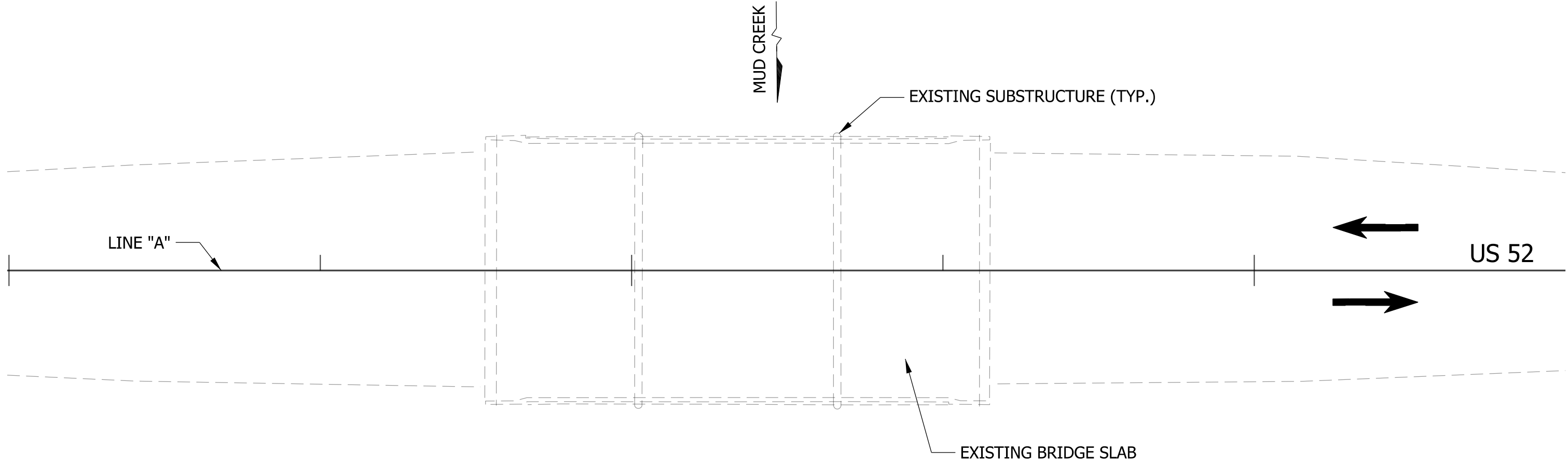


- LEGEND:**
- (H) 165 LB/SYS QC/QA - HMA, 2, 64, SURFACE, 9.5 MM
 - (K) 165 LB/SYS QC/QA - HMA, 2, 64, SURFACE 9.5 MM ON
 275 LB/SYS QC/QA - HMA, 2, 64, INTERMEDIATE 19.0 MM ON
 1210 LB/SYS QC/QA - HMA, 2, 64, BASE 25.0 MM ON
 6" COMPACTED AGGREGATE, NO. 53 ON
 SUBGRADE TREATMENT TYPE IC ON
 GEOTEXTILE FOR SUBGRADE, TYPE 2B
 - (M) JOINT ADHESIVE AND LIQUID ASPHALT SEALANT AT LANE LINES

c:\p1\3\27\2020 8:51:45 pm
 model: Layout
 file: c:\p1\3\27\2020 8:51:45 pm\p1\3\27\2020 8:51:45 pm\p1\3\27\2020 8:51:45 pm.dgn

DRAFT
 NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE				
			1/4" = 1'-0"		052-70-10277				
			VERTICAL SCALE		DESIGNATION				
DESIGN ENGINEER		DATE		1/4" = 1'-0"		1006266			
DESIGNED: JWC		DRAWN: CVH		TYPICAL CROSS SECTIONS		SURVEY BOOK		SHEETS	
						ELECTRONIC		3 of 64	
CHECKED: MSS		CHECKED: JWC				CONTRACT		PROJECT	
				B-35450		1006266			



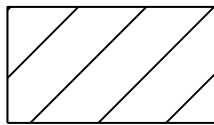
STAGE 1 NOTES (PRE-ABC PERIOD)

1. CONTRACTOR MOBILIZATION AND PREPARATION OF BRIDGE SITE.
2. INSTALL MOT FOR DETOUR ROUTE AND LOCAL TRAFFIC.
3. INSTALL CHANNEL DIVERSION SYSTEM AS REQUIRED.

STAGE 2 NOTES (ABC)

1. CLOSE US 52 TO TRAFFIC AND BEGIN ABC PERIOD
2. REMOVE EXISTING BRIDGE SUPERSTRUCTURE
3. REMOVE EXISTING BRIDGE SUBSTRUCTURE
4. EXCAVATE EXISTING PIER FOUNDATIONS AND PREP SITE FOR NEW FOUNDATIONS.
5. CUT EXISTING PILES BELOW FINAL GRADE.

LEGEND



INDICATES REMOVAL

DRAFT
NOT FOR CONSTRUCTION

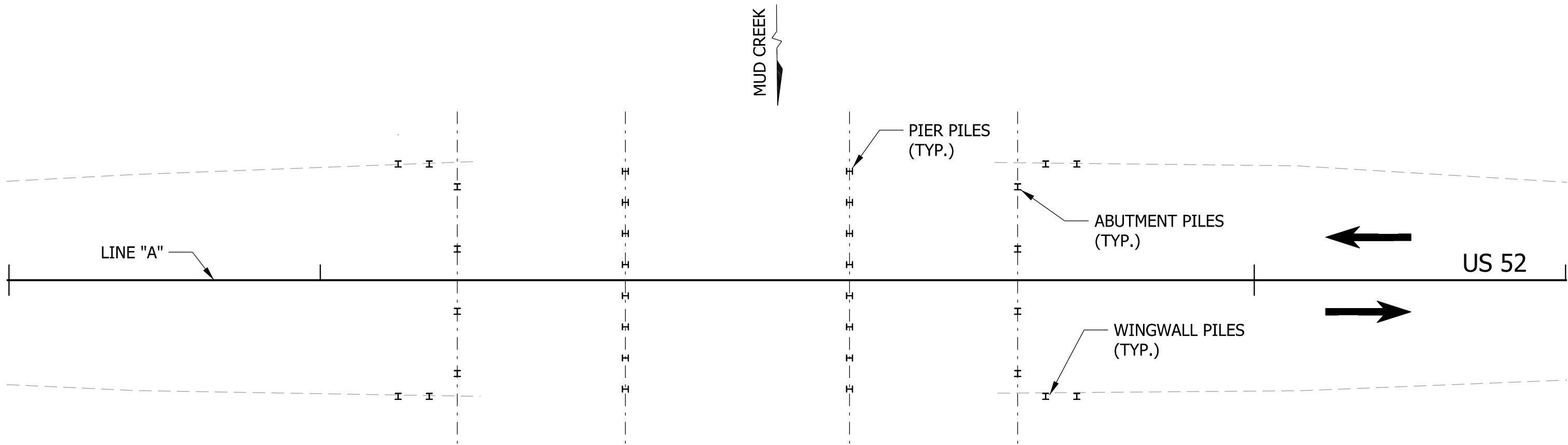
RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER		DATE
DESIGNED: _____ MEW	DRAWN: _____ CLF	
CHECKED: _____ AKP	CHECKED: _____ AKP	

INDIANA
DEPARTMENT OF TRANSPORTATION

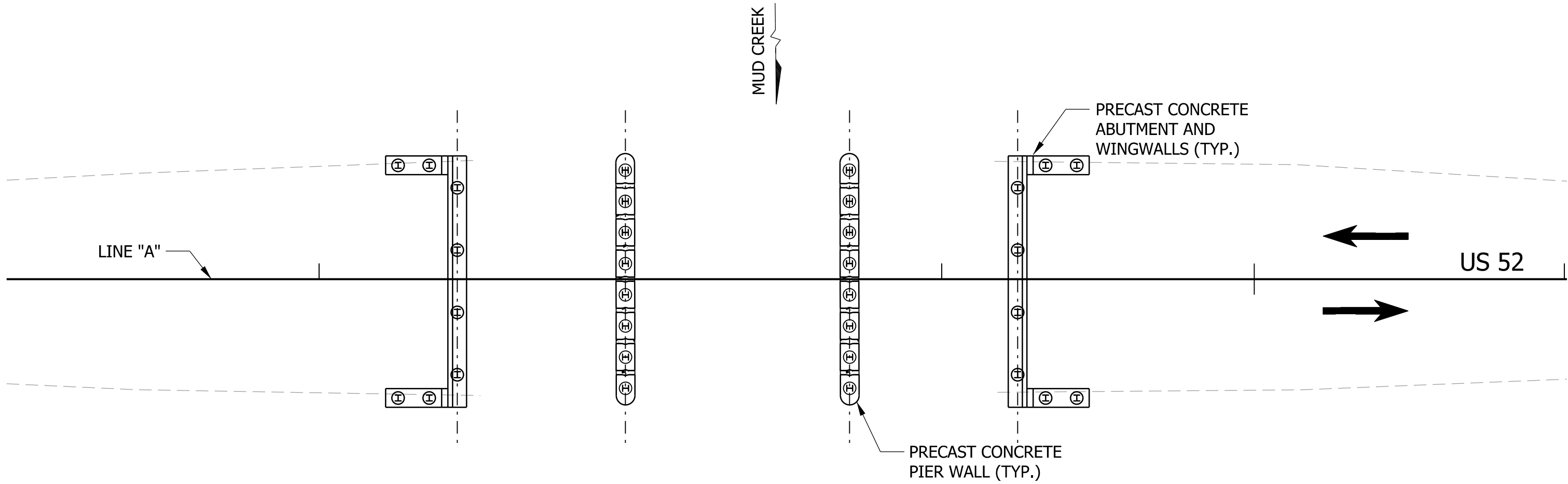
CONSTRUCTION SEQUENCE

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{1}{8}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{8}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		4	of 64
CONTRACT		PROJECT	
B-35450		1006266	

c:\p1ts
3/27/2020 3:36:05 pm
model: Construction staging 02
file: c:\cadd\p1\p1\kless\greatakes\00195467\69847-s-br-lay01_abc.dgn



STAGE 3 DETAILS



STAGE 4 DETAILS

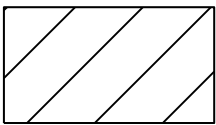
STAGE 3 NOTES (ABC)

1. DRIVE STEEL PILES AND CUT OF AT SPECIFIED ELEVATIONS.
2. COMPLETE ANY GRADING TO PREP FOR PRECAST CONCRETE SUBSTRUCTURES

STAGE 4 NOTES (ABC)

1. SET PRECAST CONCRETE PIER SUBSTRUCTURE UNITS
2. SET PRECAST CONCRETE ABUTMENT SUBSTRUCTURE UNITS
3. POUR AND CURE SUBSTRUCTURE CLOSURE POURS
4. PLACE RIP RAP SLOPE PROTECTION.

LEGEND



INDICATES REMOVAL

DRAFT
NOT FOR CONSTRUCTION

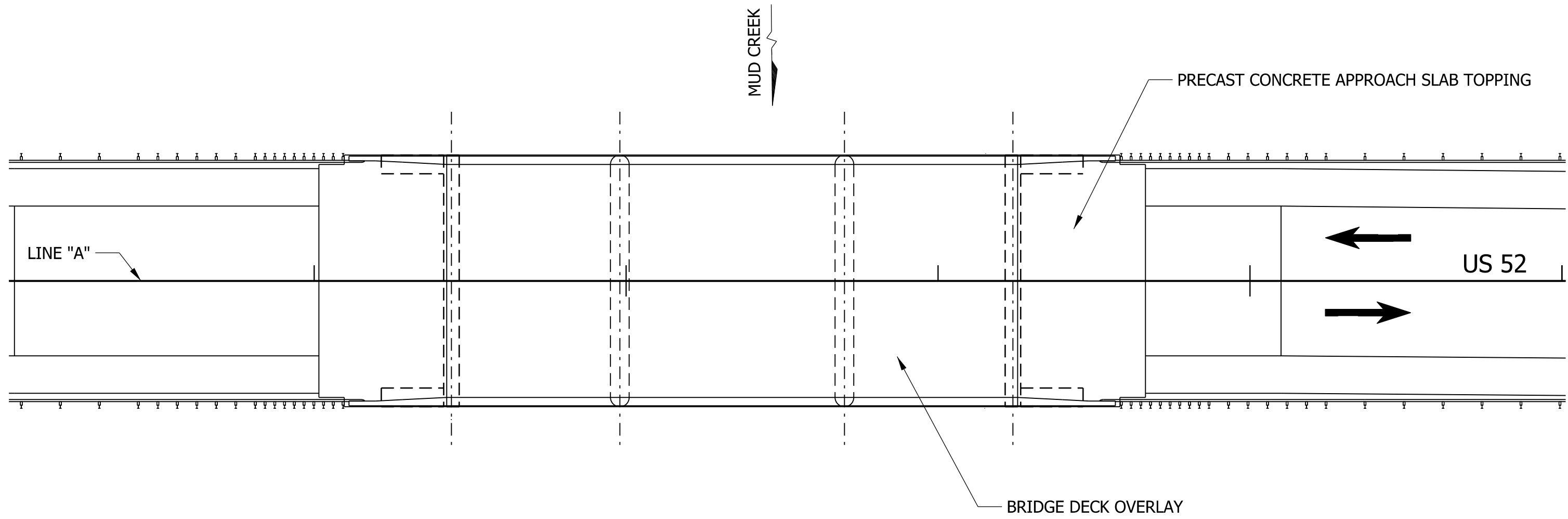
RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER		DATE
DESIGNED: _____ MEW	DRAWN: _____ CLF	
CHECKED: _____ AKP	CHECKED: _____ AKP	

INDIANA
DEPARTMENT OF TRANSPORTATION

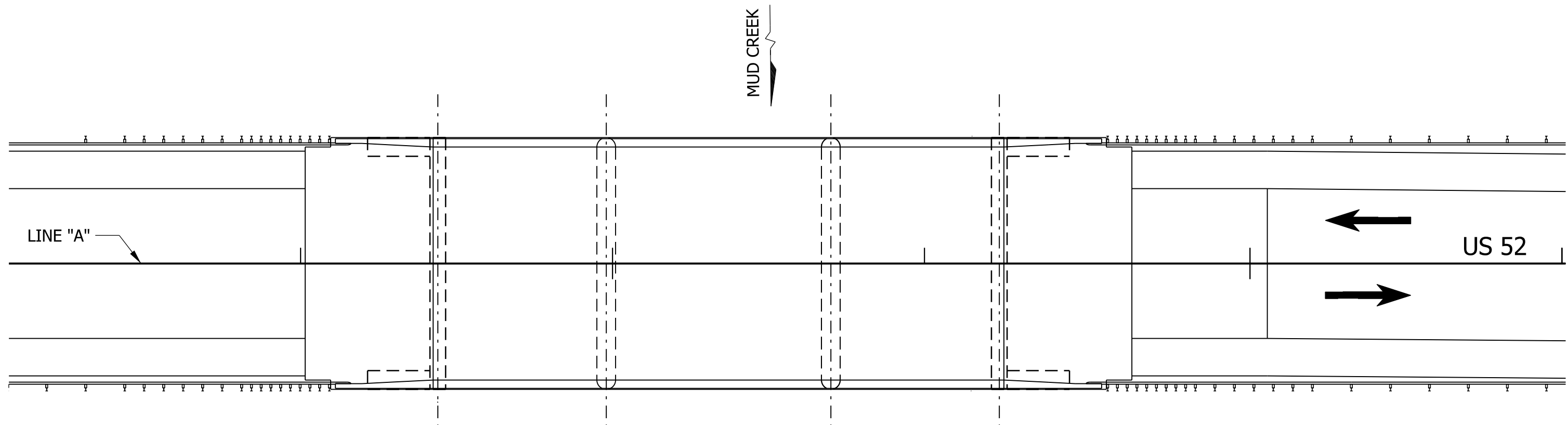
CONSTRUCTION SEQUENCE

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{1}{2}'' = 1'-0''$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{8}'' = 1'-0''$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		5	of 64
CONTRACT		PROJECT	
B-35450		1006266	

c:\p1ts
3/27/2020 3:36:05 pm
model: Construction staging 04
file: c:\cadd\p1\p1\kless\greatlakes\00195487\69847-s-br-lay\01_abc.dgn



STAGE 7 DETAILS
END OF ABC PERIOD



STAGE 8 DETAILS

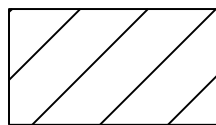
STAGE 7 NOTES (ABC)

1. PLACE APPROACH SLAB CIP TOPPING.
2. APPLY BRIDGE DECK OVERLAY.
3. COMPLETE REMAINING APPROACH ROADWAY WORK (STRIPING, STEEL GUARDRAIL, ETC.)
4. OPEN US52 TO TRAFFIC.

STAGE 8 NOTES (POST ABC PERIOD)

1. REMOVE CHANNEL DIVERSION SYSTEM AS REQUIRED.
2. PERFORM FINAL SITE GRADING.
3. CLEAN BRIDGE SITE.
4. DEMOBILIZE FROM SITE.

LEGEND



INDICATES REMOVAL

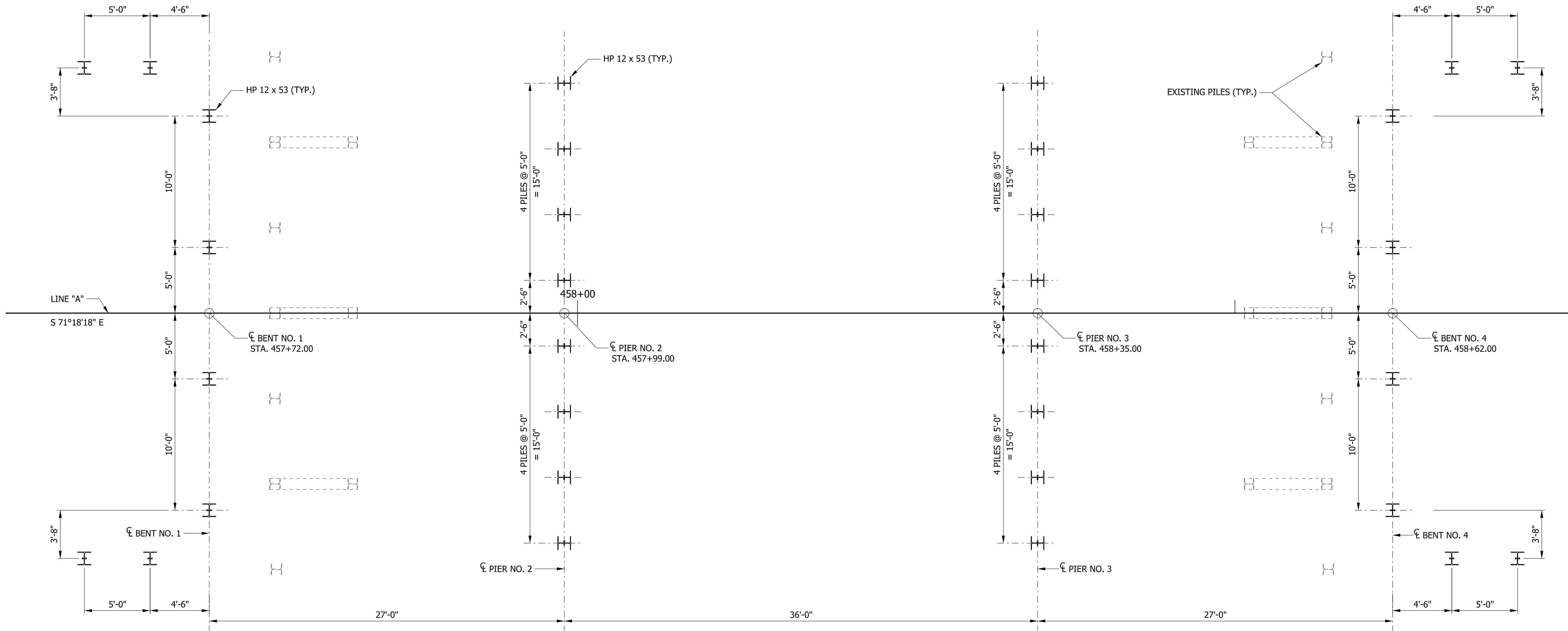
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER		DATE
DESIGNED: MEW	DRAWN: CLF	
CHECKED: AKP	CHECKED: AKP	

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION SEQUENCE

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{1}{8}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{8}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		7	of 64
CONTRACT		PROJECT	
B-35450		1006266	



FOUNDATION PLAN

- NOTES:
- FINAL PILE POSITIONS SHALL NOT DEVIATE FROM THE LOCATIONS DESIGNATED IN THESE PLANS BY MORE THAN 3" IN ANY DIRECTION. SEE PILE DRIVING TEMPLATE USP.
 - FOR PILE DRIVING TABLE, SEE SOIL BORING SHEETS.

amatungwa
3/27/2020 11:10:45 pm
model-Pile layout
file: c:\cadilla\pw\arecken\greatakes\00195487\68847-s-br-mid01.dgn

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____ MEW		DRAWN: _____ CLF			
CHECKED: _____ AKP		CHECKED: _____ MEW			

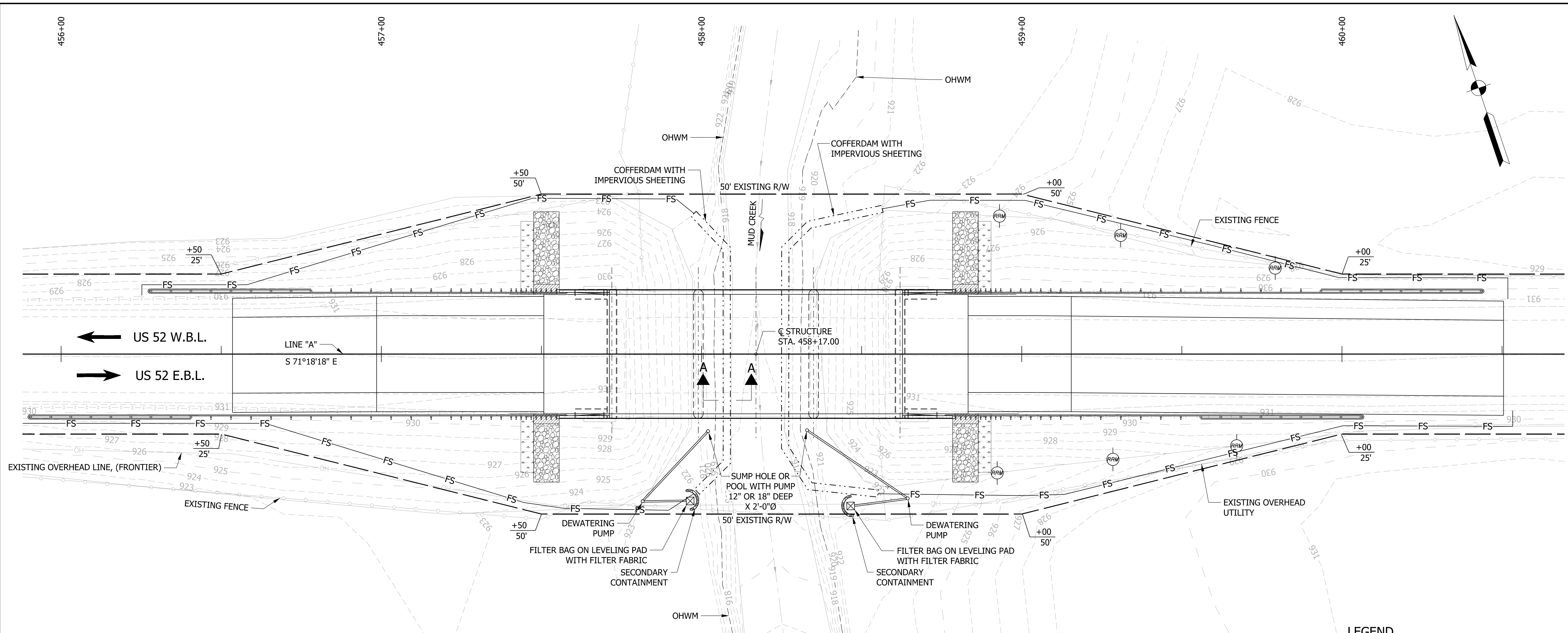
INDIANA
DEPARTMENT OF TRANSPORTATION

FOUNDATION PLAN

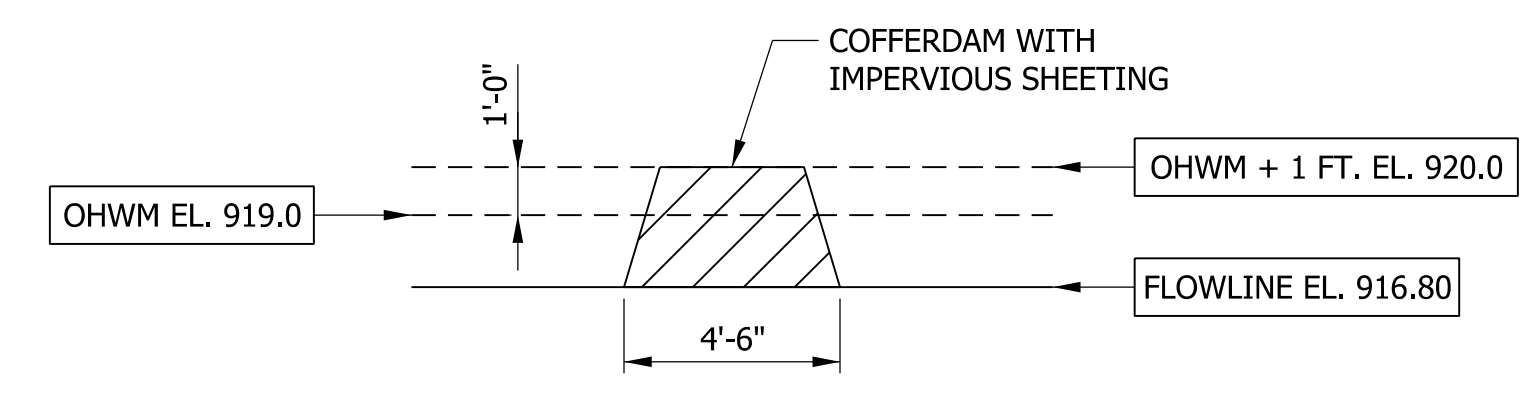
HORIZONTAL SCALE 3/8"=1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 3/4"=1'-0"		DESIGNATION 1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		8	of 64
CONTRACT B-35450		PROJECT 1006266	



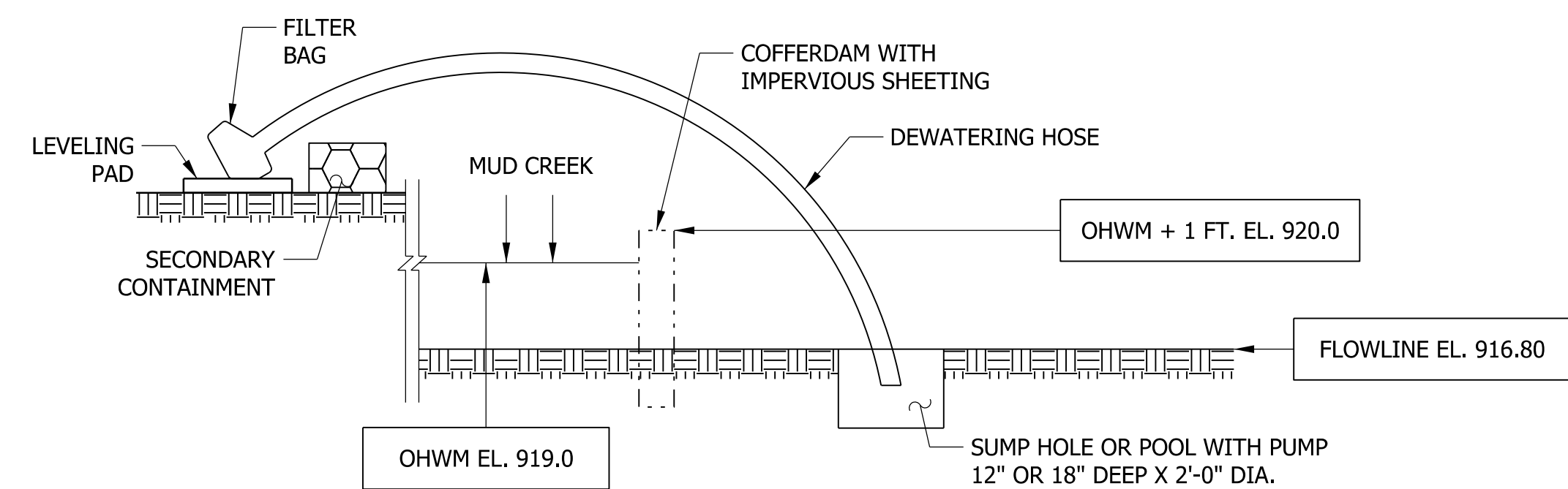
j:\mudcrk
3/27/2020 12:41:12 pm
model: Erosion control details 02
file: c:\cadilla\pwn\inkless\greatlakes\00195487\09847-s-br-er01.dgn



PLAN
SCALE: 1/16" = 1'-0"



SECTION A-A
NOT TO SCALE



DEWATERING / WORK AREA
NOT TO SCALE

LEGEND

- FS FILTER SOCK
- COFFERDAM WITH IMPERVIOUS SHEETING
- OHWM ORDINARY HIGH WATER MARK
- TEMPORARY CHECK DAM REVETMENT RIPRAP MODIFIED

NOTE:

- CONTRACTOR SHALL VERIFY EXISTING FLOW LINE ELEVATION TO SET THE APPROPRIATE PUMP DEPTH.
- DEWATERING DETAILS SHOWN ARE PART OF DOCUMENTATION INCLUDED FOR PERMIT APPROVAL. SEE SPECIAL PROVISIONS.
- TEMPORARY DEWATERING MEASURES ARE EXPECTED TO BE IN PLACE FOR 13 WEEKS.
- MUD CREEK DRAINAGE AREA = 14.43 SQUARE MILES.
- DISTURBED AREAS ABOVE THE OHWM WILL BE REGRADED AND RESTORED WITH MULCHED SEED MIXTURE R.
- THE DEWATERING HOSE SHALL BE POSITIONED SUCH THAT THE INTAKE DOES NOT REST ON THE STREAM BED.
- THE CONTRACTOR SHALL PHASE PLACEMENT OF COFFERDAMS AND DEWATERING OF MUD CREEK.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWC	DRAWN: CVH	
CHECKED: MSS	CHECKED: JWC	

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	052-70-10277
VERTICAL SCALE	DESIGNATION
AS NOTED	1006266
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 64
CONTRACT	PROJECT
B-35450	1006266

c:\pits
3/27/2020 8:52:34 pm
model:Sheet
file: c:\cadd\p\p\inkless\greatlakes\0195487\69847-s-br-erd02.dgn



SOIL CLASSIFICATIONS	
MAP SYMBOL	MAP UNIT NAME
CeB2	Celina silt loam, 2 to 6 percent slopes, eroded
CrA	Crosby silt loam, 0 to 2 percent slopes
MpB2	Miamian silt loam, New Castle Till Plain, 2 to 6 percent slopes, eroded
So	Sloan silt loam, 0 to 2 percent slopes, frequently flooded
Tr	Treaty silty clay loam, 0 to 1 percent slopes

DRAFT
NOT FOR CONSTRUCTION

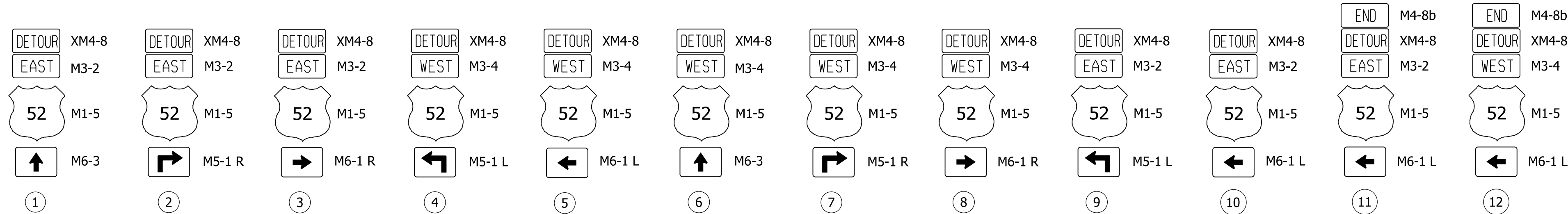
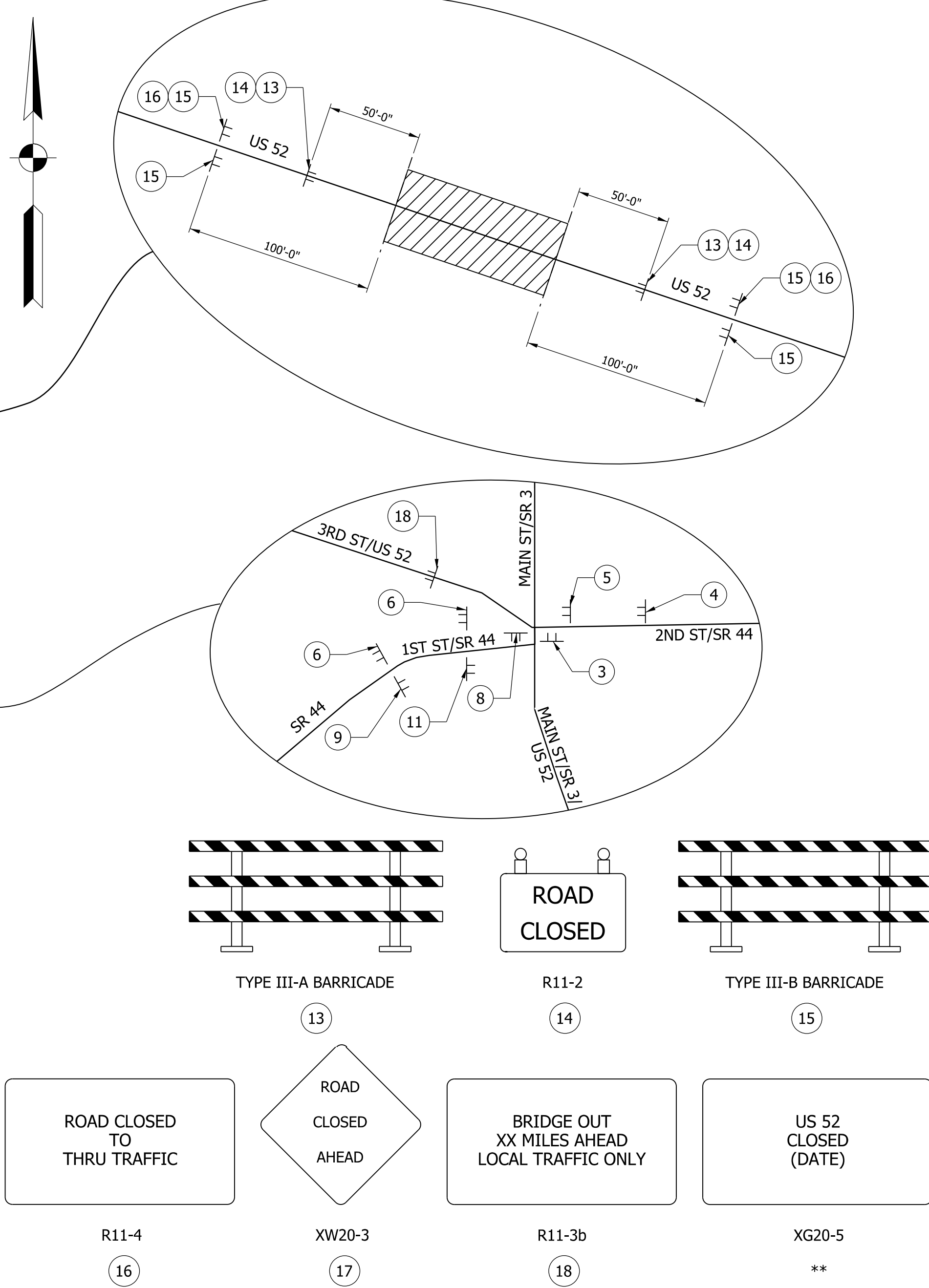
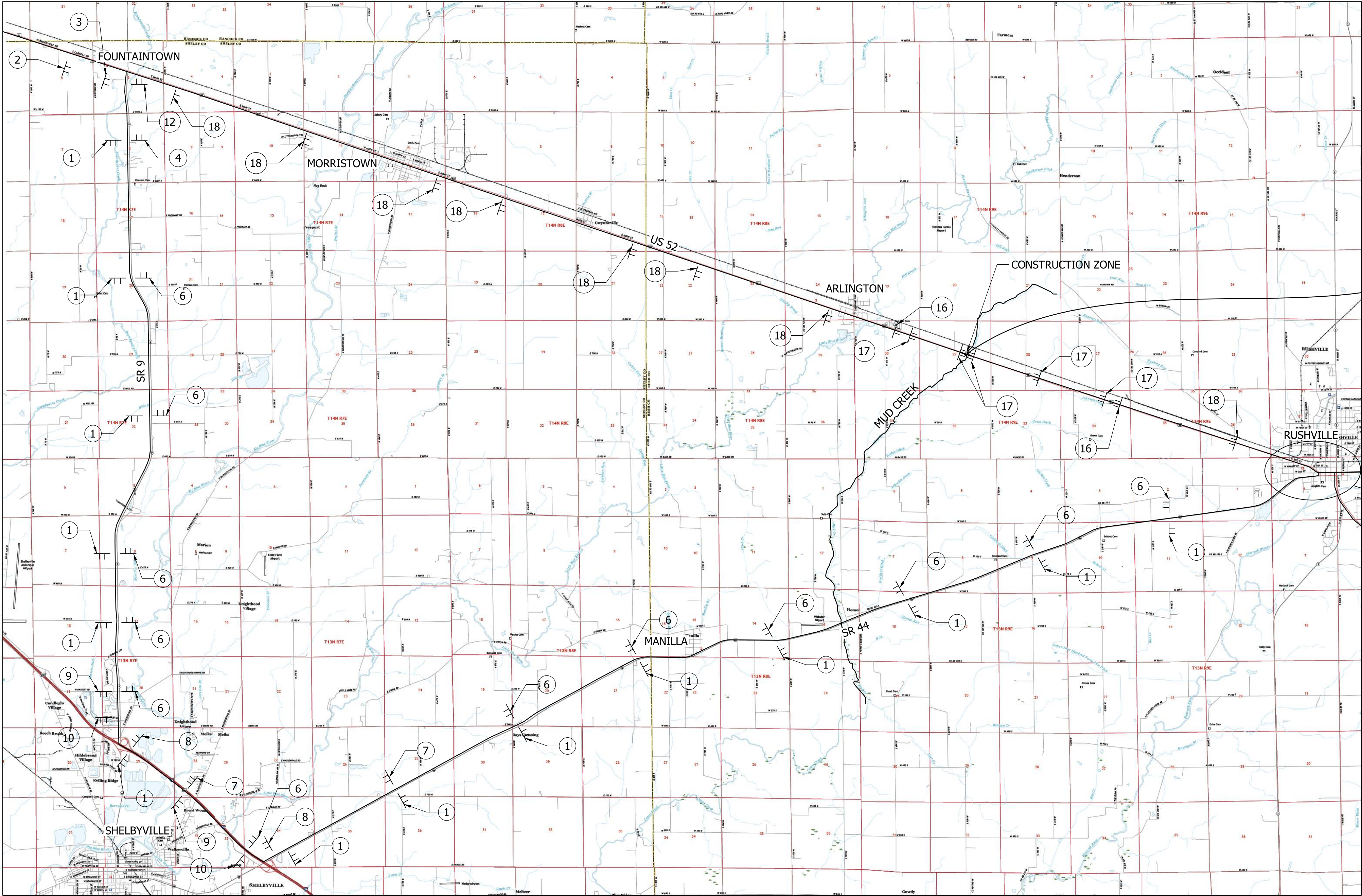
RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER _____		DATE _____
DESIGNED: _____ JWC _____	DRAWN: _____ CVH _____	
CHECKED: _____ MSS _____	CHECKED: _____ JWC _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
SOILS MAP

HORIZONTAL SCALE		BRIDGE FILE	
1" = 10'-0"		052-70-10277	
VERTICAL SCALE		DESIGNATION	
1" = 10'-0"		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		12	of 64
CONTRACT		PROJECT	
B-35450		1006266	

c:\p1\37\2020 8:53:59 pm
model: Layout
file: c:\cad\l1\p1\inkless\greatlakes\01195487\09847-s-br-mot01.dgn



MOT SUMMARY		
ITEM	UNITS	TOTALS
DETOUR ROUTE MARKER ASSEMBLIES	EA	48
CONSTRUCTION SIGN, A	EA	21
ROAD CLOSURE SIGN ASSEMBLY	EA	2
BARRICADE, III-A	LF	48
BARRICADE, III-B	LF	96
MAINTAINING TRAFFIC	LS	1

** INCLUDES 2 XG20-5 ROUTE CLOSURE NOTICE SIGNS (LOCATION TO BE DETERMINED BY PROJECT ENGINEER IN THE FIELD)

NOTES

- SIGN (2) SHALL BE PLACED 500' PRIOR TO SIGN (3).
- SIGN (4) SHALL BE PLACED 500' PRIOR TO SIGN (5).
- SIGN (7) SHALL BE PLACED 500' PRIOR TO SIGN (8).
- SIGN (9) SHALL BE PLACED 500' PRIOR TO SIGN (10) OR (11).
- FOR ADDITIONAL MAINTENANCE OF TRAFFIC DETAILS, SEE STG. DWG. E 801-TCDDT-01 THROUGH 03.

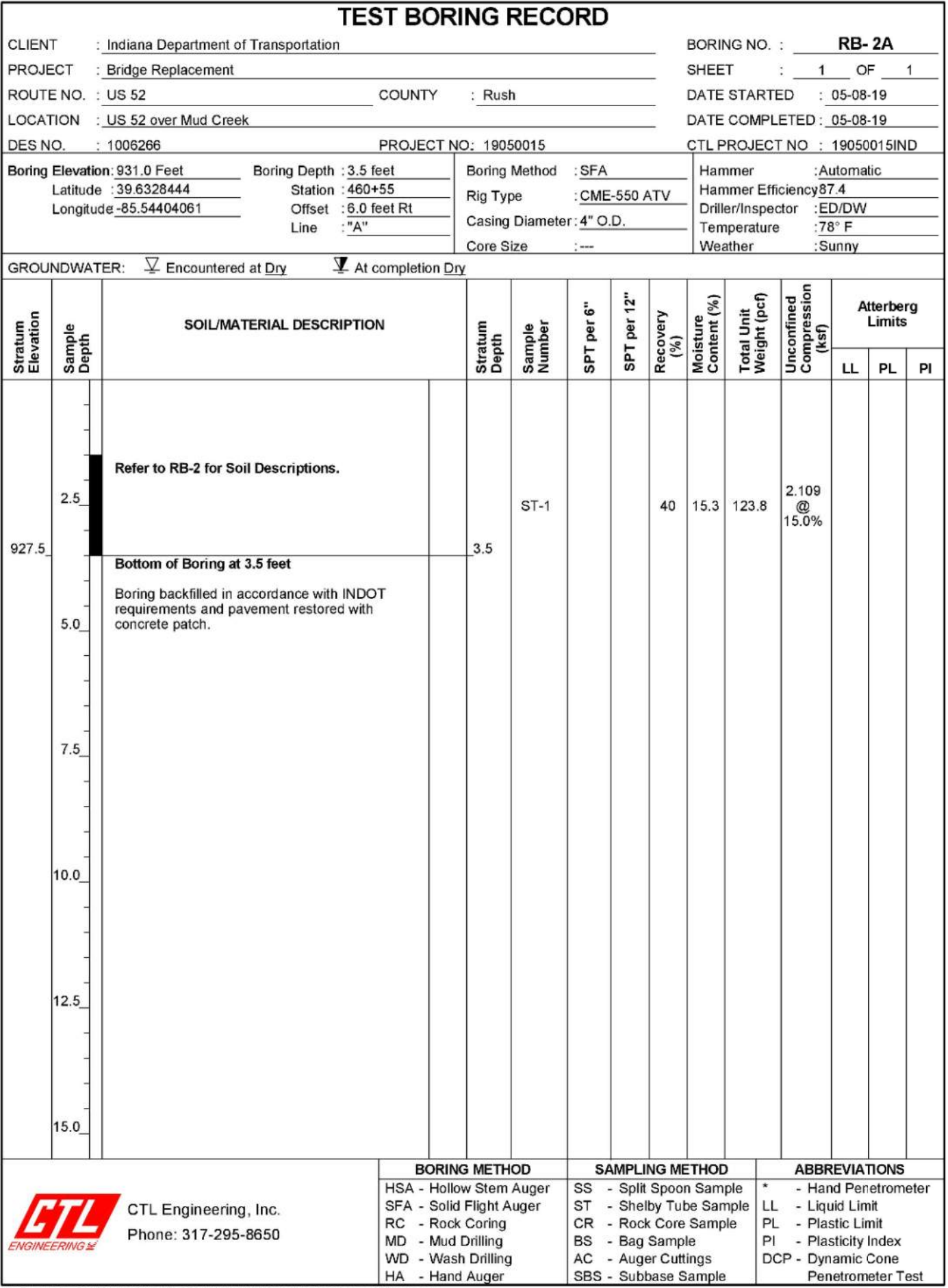
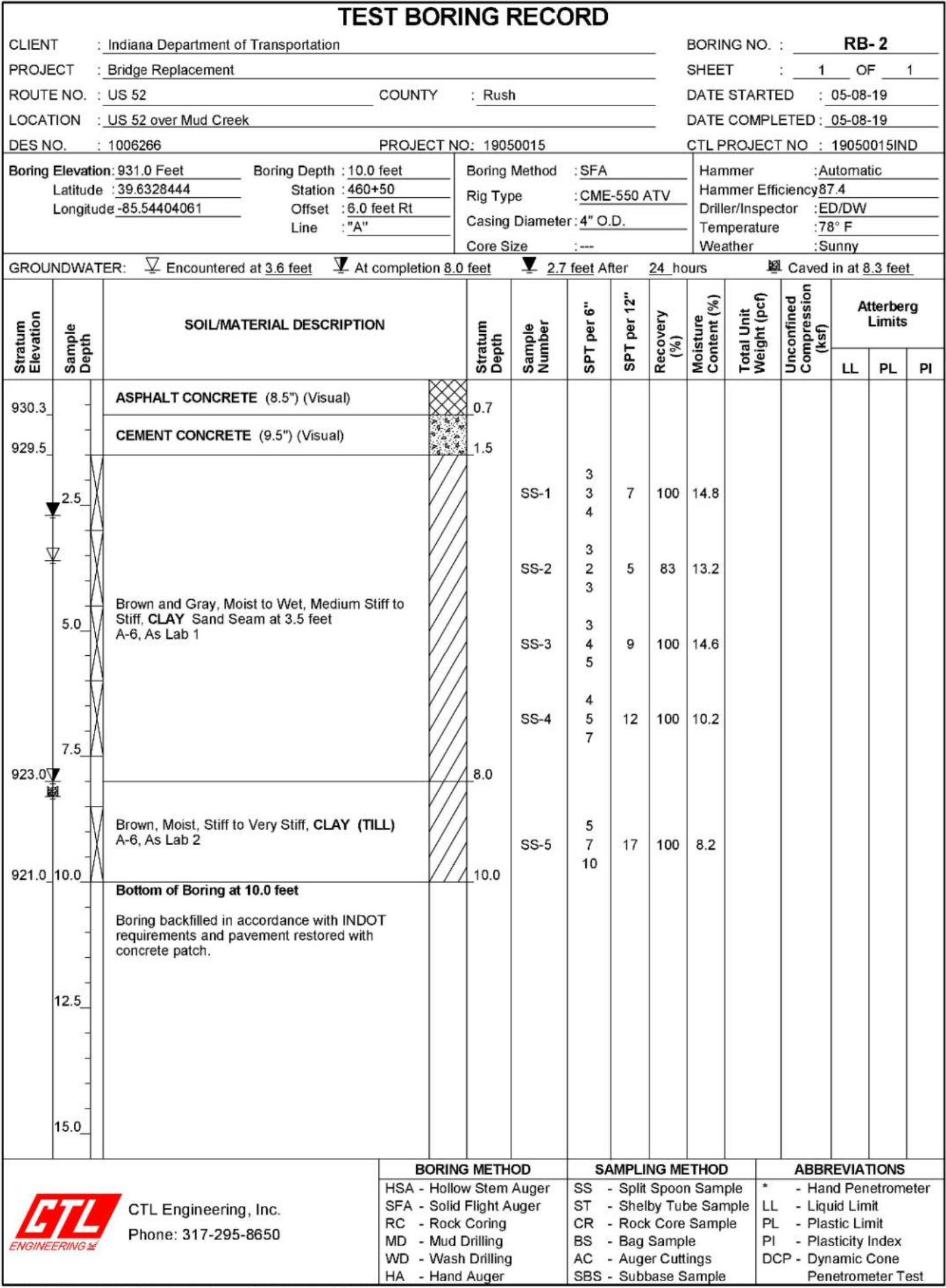
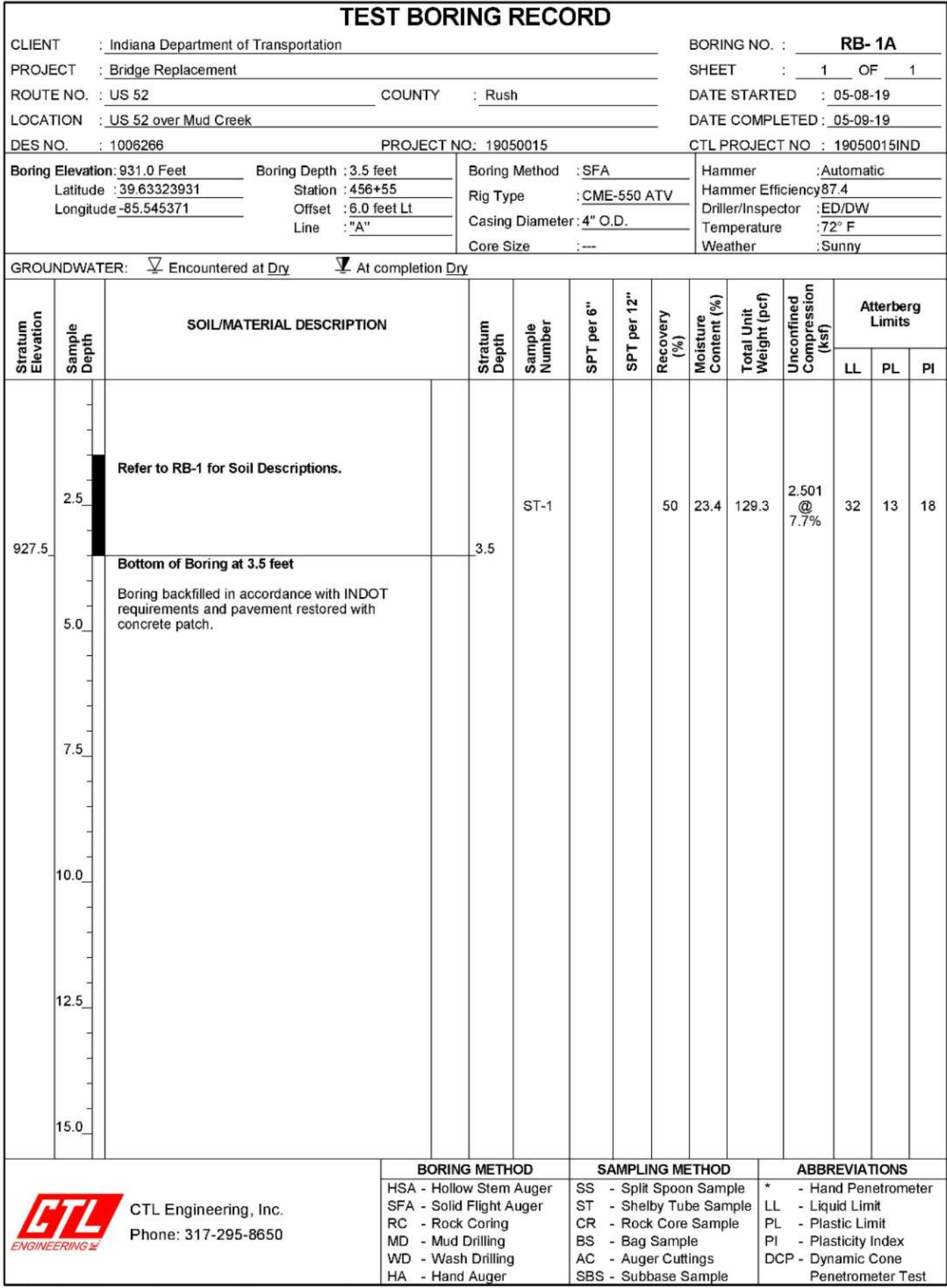
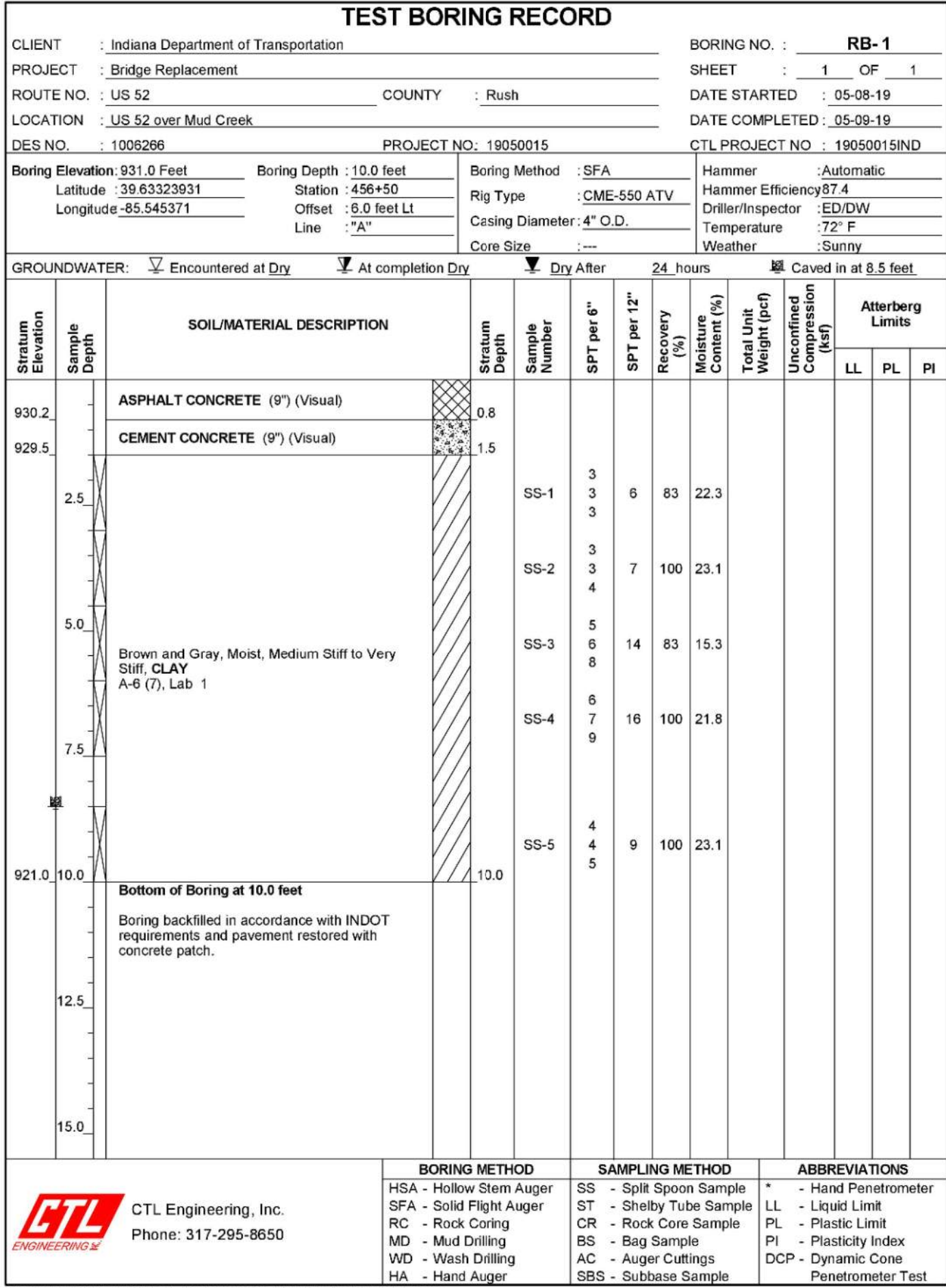
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWC	DRAWN: CVH	
CHECKED: MSS	CHECKED: JWC	

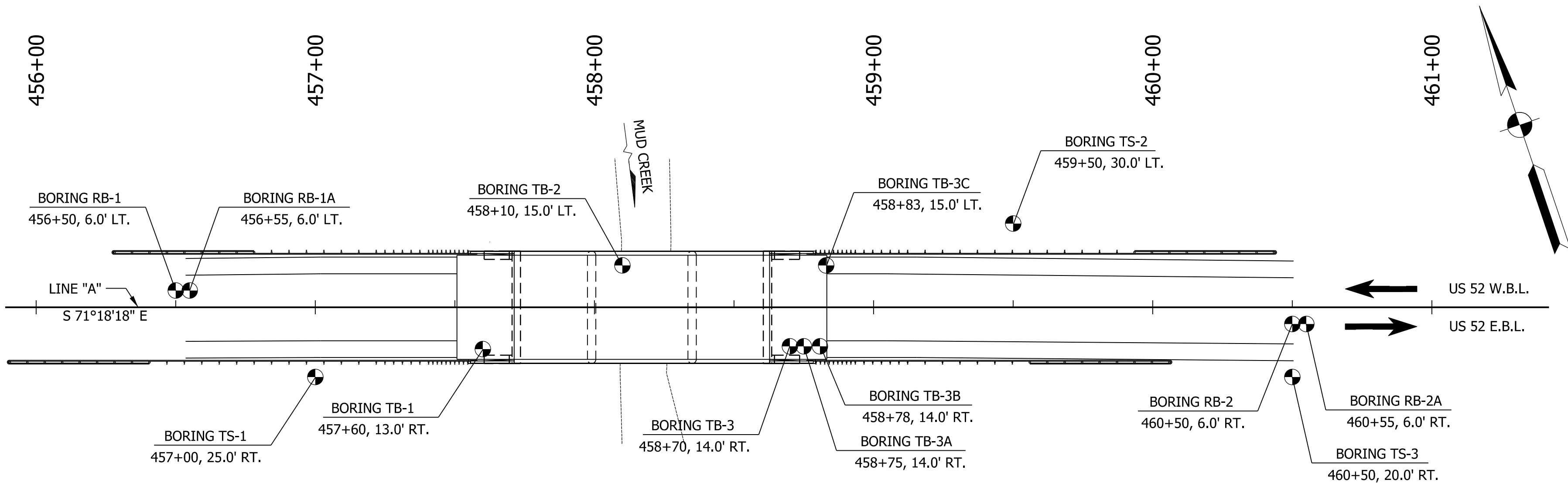
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
NTS	052-70-10277
VERTICAL SCALE	DESIGNATION
NTS	1006266
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 64
CONTRACT	PROJECT
B-35450	1006266



PILE LOADING FOR GEOTECHNICAL TESTING		
LOCATION	BENT NO.1 & NO. 4	PIER NO. 2 & NO. 3
PILE SIZE, TYPE & GRADE	HP 12x53	HP 12x53
FACTORED DESIGN LOAD, Q (kips)	229	156
FACTORED DESIGN SOIL RESISTANCE, R (kips)	229	156
RESISTANCE FACTOR, ϕ dyn	0.70	0.70
DOWNDRAG LOAD, DD (kips)	0	0
NOMINAL SOIL RESISTANCE, R_n (kips)	327	223
DOWNDRAG FRICTION, R_{sdd} (kips)	0	0
SCOUR ZONE FRICTION, R_{scour} (kips)	0	72
RELAXATION OF TIP IN SHALE, R_{relax} (kips)	0	0
NOMINAL DRIVING RESISTANCE, R_{ndr} (kips)	327	295
ESTIMATED PILE TIP ELEVATION	± 868	± 844
TESTING METHOD	DYNAMIC PILE LOAD (PDA) IN ACCORDANCE WITH 701.05 (b)	



DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RRJ	DRAWN: RRJ	
CHECKED: MEW	CHECKED: MEW	

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
N/A	052-70-10277
VERTICAL SCALE	DESIGNATION
N/A	1006266
SURVEY BOOK	SHEETS
ELECTRONIC	14 of 64
CONTRACT	PROJECT
B-35450	1006266

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1005266

Boring Elevation: 931.0 Feet

Latitude : 39.63312255

Longitude: -85.54484363

BORING NO. : TB- 2

SHEET : 1 OF 4

DATE STARTED : 05-07-19

DATE COMPLETED : 05-07-19

CTL PROJECT NO. : 19050015IND

Boring Depth : 93.5 feet

Station : 458+10

Offset : 15.0 feet Lt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter: 3.25" I.D.

Core Size : 1.5

Hammer : Automatic

Hammer Efficiency: 87.4

Driller/Inspector : ED/DW

Temperature : 75° F

Weather : Sunny

GROUNDWATER: ☒ Encountered at Dry ☐ At completion Dry

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits
											LL PL PI
929.5	2.5	CEMENT CONCRETE (17.5") (Visual)	1.5								
	5.0	Space Between Bridge Deck and Water Surface									
	7.5										
	10.0										
	12.5										
918.0	13.0	WATER (12") (Visual)	14.0								
917.0	15.0	Brown, Wet, Medium Dense, SAND AND GRAVEL with Traces of Cobbles (Visual)	17.0	SS-1	6	11	28	50	6.7		
	17.5	Brown and Gray, Moist, Stiff to Hard, CLAY (TLL) with Traces of Gravel and Cobbles A-6, As Lab 2		SS-2	4	6	13	100	10.5		
914.0	20.0										

Continued on next page

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL - Liquid Limit

PL - Plastic Limit

PI - Plasticity Index

DCP - Dynamic Cone

Hand Penetrometer

Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO_19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

BORING NO. : TB- 2

SHEET : 2 OF 4

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits
											LL PL PI
	22.5			SS-3	9	6	13	33	8.7		
	25.0			SS-4	4	6	12	83	11.3		
	27.5	Brown and Gray, Moist, Stiff to Hard, CLAY (TLL) with Traces of Gravel and Cobbles A-6, As Lab 2 (3 feet Heaving sand encountered and cleaned out at 28 feet)		SS-5	4	5	13	67	8.9		
	30.0										
	32.5			SS-6	17	22	48	100	10.2		
895.0	35.0		36.0								
	37.5			SS-7	8	13	28	100	11.7		
	40.0	Brown and Gray, Wet, Medium Dense to Dense, GRAVELLY SAND (Visual)		SS-8	9	15	33	100	23.8		
	42.5										
	45.0										

Continued on next page

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL - Liquid Limit

PL - Plastic Limit

PI - Plasticity Index

DCP - Dynamic Cone

Hand Penetrometer

Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO_19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

BORING NO. : TB- 2

SHEET : 3 OF 4

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits
											LL PL PI
885.0	46.0	Brown and Gray, Wet, Medium Dense to Dense, GRAVELLY SAND (Visual)									
	47.5			SS-9	12	16	35	83	7.5		
	50.0										
	52.5			SS-10	18	26	60	100	7.8		
	55.0										
	57.5	Gray, Moist, Hard, CLAY (TLL) with Traces of Gravel and Cobbles A-6, As Lab 2		SS-11	17	28	61	100	7.8		
	60.0										
	62.5			SS-12	36	47	88	9.8			
	65.0										
	67.5			SS-13	15	19	42	100	15.2		
	70.0										

Continued on next page

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL - Liquid Limit

PL - Plastic Limit

PI - Plasticity Index

DCP - Dynamic Cone

Hand Penetrometer

Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO_19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

BORING NO. : TB- 2

SHEET : 4 OF 4

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits
											LL PL PI
859.0	72.0	Gray, Moist, Hard, CLAY (TLL) with Traces of Gravel and Cobbles A-6, As Lab 2									
	72.5			SS-14	13	21	48	100	17.9		
	75.0										
	77.5			SS-15	22	31	67	83	15.9		
	80.0	Gray, Moist, Hard, SANDY CLAY LOAM (TLL) with Traces of Gravel A-4, As Lab 3									
	82.5			SS-16	11	14	32	100	18.1		
	85.0										
	87.5			SS-17	50/5"		100	17.1			
842.0	88.0	Brown and Gray, Wet, Very Dense, SAND AND GRAVEL with Traces of Cobbles Boulder encountered Auger Refusal at 79.5 feet (Visual)									
	90.0			SS-18	36	50/4"	100	9.8			
	92.5										
837.5	93.5	Bottom of Boring at 93.5 feet									
	95.0	Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.									

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL - Liquid Limit

PL - Plastic Limit

PI - Plasticity Index

DCP - Dynamic Cone

Hand Penetrometer

Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO_19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

jmmcdick
3/27/2020 8:55:23 pm
model:Sheet_3
file: c:\cadd\dlb\dw\inless\greatakes\00195487\69847-sb-bor01.dgn

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL

DESIGNED: RRJ

CHECKED: MEW

DESIGN ENGINEER

DRAWN: RRJ

CHECKED: MEW

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE

VERTICAL SCALE

N/A

BRIDGE FILE

052-70-10277

DESIGNATION

1006266

SURVEY BOOK

ELECTRONIC

CONTRACT

B-35450

SHEETS

16 of 64

PROJECT

1006266

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

PROJECT NO. : 19050015

Boring Elevation : 931.0 Feet

Latitude : 39.63298607

Longitude : -85.54485784

Boring Depth : 14.0 feet

Station : 458+70

Offset : 14.0 feet Rt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 1.0

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015IND

Hammer : Automatic

Hammer Efficiency : 87.4

Driller/Inspector : ED/DW

Temperature : 60° F

Weather : Cloudy

GROUNDWATER : ☐ Encountered at Dry ☒ At completion Dry

Boring Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unclassified Compression (ksf)	Atterberg Limits
											LL PL PI
930.0		ASPHALT CONCRETE (12") (Visual)	1.0								
2.5				SS-1	2	5	50	8.4			
5.0		Brown, Slightly Moist, Very Loose to Loose, SAND AND GRAVEL (FILL)		SS-2	3	5	33	7.8			
7.5				SS-3	4	8	44	5.3			
923.0			8.0								
10.0		Brown and Gray, Moist, Medium Stiff to Hard, CLAY with Traces of Cobbles		SS-4	4	7	83	13.1			
12.5		Boring was terminated at 14 feet upon encountering auger refusal on boulders. Test boring was moved to TB-3A, 5 feet east of TB-3, A-6, As Lab 2									
917.0		Bottom of Boring at 14.0 feet	14.0	SS-5	50/3"	66	7.0				
15.0		Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.									
17.5											
20.0											

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD	SAMPLING METHOD	ABBREVIATIONS
HSA - Hollow Stem Auger	SS - Split Spoon Sample	* - Hand Penetrometer
SFA - Solid Flight Auger	ST - Shelby Tube Sample	LL - Liquid Limit
RC - Rock Coring	CR - Rock Core Sample	PL - Plastic Limit
MD - Mud Drilling	BS - Bag Sample	PI - Plasticity Index
WD - Wash Drilling	AC - Auger Cuttings	DCP - Dynamic Cone Penetrometer Test
HA - Hand Auger	SBS - Subbase Sample	

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

PROJECT NO. : 19050015

Boring Elevation : 931.0 Feet

Latitude : 39.63298607

Longitude : -85.54485784

Boring Depth : 14.0 feet

Station : 458+70

Offset : 14.0 feet Rt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 1.0

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015IND

Hammer : Automatic

Hammer Efficiency : 87.4

Driller/Inspector : ED/DW

Temperature : 60° F

Weather : Cloudy

GROUNDWATER : ☐ Encountered at Dry ☒ At completion Dry

Boring Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unclassified Compression (ksf)	Atterberg Limits
											LL PL PI
930.0											
2.5											
5.0											
7.5		Boring was terminated at 14 feet upon encountering auger refusal on cobbles and boulders. Test boring was moved to TB-3B, 8 feet east of TB-3.									
10.0											
12.5											
917.0		Bottom of Boring at 14.0 feet	14.0								
15.0		Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.									
17.5											
20.0											

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD	SAMPLING METHOD	ABBREVIATIONS
HSA - Hollow Stem Auger	SS - Split Spoon Sample	* - Hand Penetrometer
SFA - Solid Flight Auger	ST - Shelby Tube Sample	LL - Liquid Limit
RC - Rock Coring	CR - Rock Core Sample	PL - Plastic Limit
MD - Mud Drilling	BS - Bag Sample	PI - Plasticity Index
WD - Wash Drilling	AC - Auger Cuttings	DCP - Dynamic Cone Penetrometer Test
HA - Hand Auger	SBS - Subbase Sample	

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

PROJECT NO. : 19050015

Boring Elevation : 931.0 Feet

Latitude : 39.63298607

Longitude : -85.54485784

Boring Depth : 14.0 feet

Station : 458+70

Offset : 14.0 feet Rt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 1.0

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015IND

Hammer : Automatic

Hammer Efficiency : 87.4

Driller/Inspector : ED/DW

Temperature : 60° F

Weather : Cloudy

GROUNDWATER : ☐ Encountered at Dry ☒ At completion Dry

Boring Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unclassified Compression (ksf)	Atterberg Limits
											LL PL PI
930.0											
2.5											
5.0											
7.5		Boring was terminated at 14 feet upon encountering auger refusal on concrete rubble. Test boring was moved to TB-3C.									
10.0											
12.5											
917.0		Bottom of Boring at 14.0 feet	14.0								
15.0		Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.									
17.5											
20.0											

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD	SAMPLING METHOD	ABBREVIATIONS
HSA - Hollow Stem Auger	SS - Split Spoon Sample	* - Hand Penetrometer
SFA - Solid Flight Auger	ST - Shelby Tube Sample	LL - Liquid Limit
RC - Rock Coring	CR - Rock Core Sample	PL - Plastic Limit
MD - Mud Drilling	BS - Bag Sample	PI - Plasticity Index
WD - Wash Drilling	AC - Auger Cuttings	DCP - Dynamic Cone Penetrometer Test
HA - Hand Auger	SBS - Subbase Sample	

jmodrick
3/27/2020 8:55:30 pm
model_Sheet.dgn
file: c:\cadd\dw\inless\greatakes\00195487\68847-sb-bor01.dgn

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE N/A	BRIDGE FILE 052-70-10277
			VERTICAL SCALE N/A	DESIGNATION 1006266
DESIGNED: RRJ	DRAWN: RRJ	SOIL BORINGS		SURVEY BOOK
CHECKED: MEW	CHECKED: MEW			ELECTRONIC
				CONTRACT
				B-35450
				SHEETS 17 of 64
				PROJECT 1006266

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

Boring Elevation: 931.0 Feet

Latitude : 39.63305742

Longitude : -85.54459308

BORING NO. : TB-3C

SHEET : 1 OF 4

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015ND

Boring Depth : 70.0 feet

Station : 458+83

Offset : 15.0 feet LT

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 2

Weather : Cloudy

Groundwater : Encountered at 13.0 feet

At completion 16.0 feet

Caved in at 33.0 feet

Stratum Elevation

Sample Depth

SOIL/MATERIAL DESCRIPTION

Stratum Depth

Sample Number

SPT per 6"

SPT per 12"

Recovery (%)

Moisture Content (%)

Total Unit Weight (pcf)

Unclassified Compression (ksf)

Atterberg Limits

LL

PL

PI

930.3

0.7

ASPHALT CONCRETE (8") (Visual)

0.7

SS-1

4

9

100

13.3

929.5

1.5

SAND AND GRAVEL (10") (Visual)

1.5

SS-1

4

9

100

13.3

2.5

5.0

7.5

Brown and Gray, Moist, Medium Stiff to Soft, CLAY (TILL) with Traces of Gravel and Cobbles

SS-3

2

4

83

17.4

10.0

12.5

15.0

Brown and Gray, Wet to Moist, Stiff to Hard, CLAY (TILL) with Traces of Gravel and Cobbles

SS-5

5

11

100

9.9

Continued on next page

CTL ENGINEERING INC.

CTL Engineering, Inc.

Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SS - Split Spoon Sample

- Hand Penetrometer

SFA - Solid Flight Auger

ST - Shelby Tube Sample

- Liquid Limit

RC - Rock Coring

CR - Rock Core Sample

- Plastic Limit

MD - Mud Drilling

BS - Bag Sample

- Plasticity Index

WD - Wash Drilling

AC - Auger Cuttings

DCP - Dynamic Cone

HA - Hand Auger

SBS - Subbase Sample

Penetrometer Test

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

Boring Elevation: 931.0 Feet

Latitude : 39.63305742

Longitude : -85.54459308

BORING NO. : TB-3C

SHEET : 2 OF 4

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015ND

Boring Depth : 70.0 feet

Station : 458+83

Offset : 15.0 feet LT

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 2

Weather : Cloudy

Groundwater : Encountered at 13.0 feet

At completion 16.0 feet

Caved in at 33.0 feet

Stratum Elevation

Sample Depth

SOIL/MATERIAL DESCRIPTION

Stratum Depth

Sample Number

SPT per 6"

SPT per 12"

Recovery (%)

Moisture Content (%)

Total Unit Weight (pcf)

Unclassified Compression (ksf)

Atterberg Limits

LL

PL

PI

17.5

20.0

22.5

25.0

Brown and Gray, Wet to Moist, Stiff to Hard, CLAY (TILL) with Traces of Gravel and Cobbles

SS-7

8

13

100

18.2

27.5

30.0

Encountered Cobbles in SS-8 and SS-9

SS-8

5

13

11

11.5

32.5

Continued on next page

CTL ENGINEERING INC.

CTL Engineering, Inc.

Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SS - Split Spoon Sample

- Hand Penetrometer

SFA - Solid Flight Auger

ST - Shelby Tube Sample

- Liquid Limit

RC - Rock Coring

CR - Rock Core Sample

- Plastic Limit

MD - Mud Drilling

BS - Bag Sample

- Plasticity Index

WD - Wash Drilling

AC - Auger Cuttings

DCP - Dynamic Cone

HA - Hand Auger

SBS - Subbase Sample

Penetrometer Test

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

Boring Elevation: 931.0 Feet

Latitude : 39.63305742

Longitude : -85.54459308

BORING NO. : TB-3C

SHEET : 3 OF 4

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015ND

Boring Depth : 70.0 feet

Station : 458+83

Offset : 15.0 feet LT

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 2

Weather : Cloudy

Groundwater : Encountered at 13.0 feet

At completion 16.0 feet

Caved in at 33.0 feet

Stratum Elevation

Sample Depth

SOIL/MATERIAL DESCRIPTION

Stratum Depth

Sample Number

SPT per 6"

SPT per 12"

Recovery (%)

Moisture Content (%)

Total Unit Weight (pcf)

Unclassified Compression (ksf)

Atterberg Limits

LL

PL

PI

35.0

Brown and Gray, Wet to Moist, Stiff to Hard, CLAY (TILL) with Traces of Gravel and Cobbles

SS-9

25

56

11

10.7

37.0

40.0

3 feet heaving sand encountered and cleaned at 41 feet.

SS-10

8

18

67

8.6

42.5

45.0

Brown and Gray, Wet, Medium Dense, GRAVELLY SAND (Visual)

SS-11

8

24

100

21.6

47.5

50.0

51.0

Brown and Gray, Moist, Hard, CLAY (TILL) with Traces of Gravel and Cobbles

SS-12

9

28

100

14.2

52.5

Continued on next page

CTL ENGINEERING INC.

CTL Engineering, Inc.

Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SS - Split Spoon Sample

- Hand Penetrometer

SFA - Solid Flight Auger

ST - Shelby Tube Sample

- Liquid Limit

RC - Rock Coring

CR - Rock Core Sample

- Plastic Limit

MD - Mud Drilling

BS - Bag Sample

- Plasticity Index

WD - Wash Drilling

AC - Auger Cuttings

DCP - Dynamic Cone

HA - Hand Auger

SBS - Subbase Sample

Penetrometer Test

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

Boring Elevation: 931.0 Feet

Latitude : 39.63305742

Longitude : -85.54459308

BORING NO. : TB-3C

SHEET : 4 OF 4

DATE STARTED : 05-10-19

DATE COMPLETED : 05-10-19

CTL PROJECT NO. : 19050015ND

Boring Depth : 70.0 feet

Station : 458+83

Offset : 15.0 feet LT

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 2

Weather : Cloudy

Groundwater : Encountered at 13.0 feet

At completion 16.0 feet

Caved in at 33.0 feet

Stratum Elevation

Sample Depth

SOIL/MATERIAL DESCRIPTION

Stratum Depth

Sample Number

SPT per 6"

SPT per 12"

Recovery (%)

Moisture Content (%)

Total Unit Weight (pcf)

Unclassified Compression (ksf)

Atterberg Limits

LL

PL

PI

55.0

57.5

60.0

Brown and Gray, Moist, Hard, CLAY (TILL) with Traces of Gravel and Cobbles

SS-14

28

50

7.5

62.5

65.0

67.5

70.0

Brown, Wet, Very Dense, GRAVELLY SAND with Traces of Cobbles (Visual)

SS-16

38

75

100

7.9

70.0

Bottom of Boring at 70.0 feet

Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.

CTL ENGINEERING INC.

CTL Engineering, Inc.

Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SS - Split Spoon Sample

- Hand Penetrometer

SFA - Solid Flight Auger

ST - Shelby Tube Sample

- Liquid Limit

RC - Rock Coring

CR - Rock Core Sample

- Plastic Limit

MD - Mud Drilling

BS - Bag Sample

- Plasticity Index

WD - Wash Drilling

AC - Auger Cuttings

DCP - Dynamic Cone

HA - Hand Auger

SBS - Subbase Sample

Penetrometer Test

Jmrodick
3/27/2020 8:55:37 pm
model_Sheet 5
file: c:\addinfo\dw\inless\greatakes\00195487\68677-sb-bor01.dgn

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: RRJ

DRAWN: RRJ

CHECKED: MEW

CHECKED: MEW

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE

BRIDGE FILE

N/A

052-70-10277

VERTICAL SCALE

DESIGNATION

N/A

1006266

SURVEY BOOK

SHEETS

ELECTRONIC

18 of 64

CONTRACT

PROJECT

B-35450

1006266

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

PROJECT NO. : 19050015

Boring Elevation : 929.0 Feet

Latitude : 39.63309449

Longitude : -85.54524465

Boring Depth : 0.5 feet

Station : 457+00

Offset : 25.0 feet Rt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 1.00

BORING NO. : TS- 1

SHEET : 1 OF 1

DATE STARTED : 05-06-19

DATE COMPLETED : 05-06-19

CTL PROJECT NO. : 19050015IND

Hammer : Automatic

Hammer Efficiency : 87.4

Driller/Inspector : ED/DW

Temperature : 72° F

Weather : Sunny

GROUNDWATER: ☐ Encountered at Dry ☒ At completion Dry

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	LL	PL	PI
928.5	0	TOPSOIL	0.5	BS-1				16.6			NP	NP	NP
		Bottom of Boring at 0.5 feet											
		Boring backfilled in accordance with INDOT requirements.											
	2.5												
	5.0												
	7.5												
	10.0												

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL

PL

PI

DCP

Penetrometer Test

- Hand Penetrometer

- Liquid Limit

- Plastic Limit

- Plasticity Index

- Dynamic Cone

- Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO 19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

PROJECT NO. : 19050015

Boring Elevation : 927.0 Feet

Latitude : 39.6330349

Longitude : -85.54433795

Boring Depth : 0.5 feet

Station : 458+50

Offset : 30.0 feet Lt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 1.00

BORING NO. : TS- 2

SHEET : 1 OF 1

DATE STARTED : 05-08-19

DATE COMPLETED : 05-08-19

CTL PROJECT NO. : 19050015IND

Hammer : Automatic

Hammer Efficiency : 87.4

Driller/Inspector : ED/DW

Temperature : 72° F

Weather : Sunny

GROUNDWATER: ☐ Encountered at Dry ☒ At completion Dry

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	LL	PL	PI
926.5	0	TOPSOIL	0.5	BS-1				27.2			NP	NP	NP
		Bottom of Boring at 0.5 feet											
		Boring backfilled in accordance with INDOT requirements.											
	2.5												
	5.0												
	7.5												
	10.0												

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL

PL

PI

DCP

Penetrometer Test

- Hand Penetrometer

- Liquid Limit

- Plastic Limit

- Plasticity Index

- Dynamic Cone

- Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO 19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

TEST BORING RECORD

CLIENT : Indiana Department of Transportation

PROJECT : Bridge Replacement

ROUTE NO. : US 52

LOCATION : US 52 over Mud Creek

DES NO. : 1006266

PROJECT NO. : 19050015

Boring Elevation : 930.0 Feet

Latitude : 39.63281022

Longitude : -85.54405826

Boring Depth : 0.5 feet

Station : 460+50

Offset : 20.0 feet Rt

Line : "A"

Boring Method : HSA

Rig Type : CME-550 ATV

Coring Diameter : 3.25" I.D.

Core Size : 1.00

BORING NO. : TS- 3

SHEET : 1 OF 1

DATE STARTED : 05-08-19

DATE COMPLETED : 05-08-19

CTL PROJECT NO. : 19050015IND

Hammer : Automatic

Hammer Efficiency : 87.4

Driller/Inspector : ED/DW

Temperature : 78° F

Weather : Sunny

GROUNDWATER: ☐ Encountered at Dry ☒ At completion Dry

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	LL	PL	PI
929.5	0	TOPSOIL	0.5	BS-1				17.6			NP	NP	NP
		Bottom of Boring at 0.5 feet											
		Boring backfilled in accordance with INDOT requirements.											
	2.5												
	5.0												
	7.5												
	10.0												

 CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD

SAMPLING METHOD

ABBREVIATIONS

HSA - Hollow Stem Auger

SFA - Solid Flight Auger

RC - Rock Coring

MD - Mud Drilling

WD - Wash Drilling

HA - Hand Auger

SS - Split Spoon Sample

ST - Shelby Tube Sample

CR - Rock Core Sample

BS - Bag Sample

AC - Auger Cuttings

SBS - Subbase Sample

*

LL

PL

PI

DCP

Penetrometer Test

- Hand Penetrometer

- Liquid Limit

- Plastic Limit

- Plasticity Index

- Dynamic Cone

- Penetrometer Test

INDOT_TEST BORING RECORD_LL_SO 19050015IND.GPJ INDOT_DATA TEMPLATE.GDT

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: CEU

DRAWN: CEU

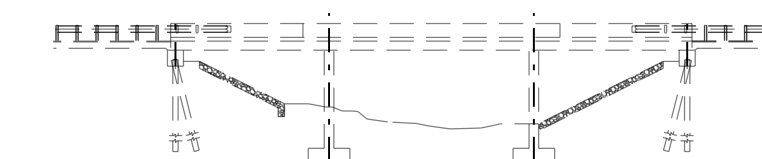
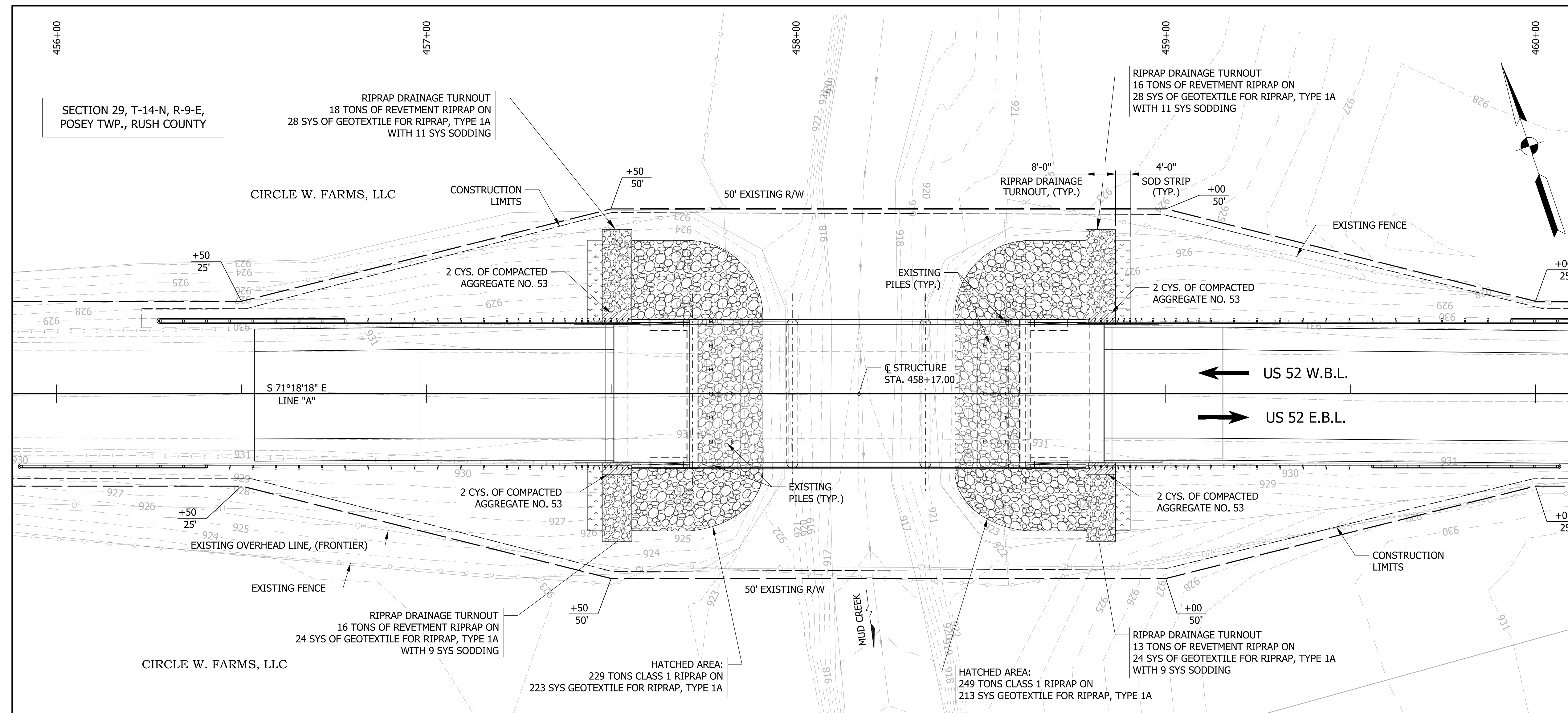
CHECKED: MEW

CHECKED: MEW

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
N/A	052-70-10277
VERTICAL SCALE	DESIGNATION
N/A	1006266
SURVEY BOOK	SHEETS
ELECTRONIC	19 of 64
CONTRACT	PROJECT
B-35450	1006266



GENERAL NOTES

REINFORCING BAR COVER SHALL BE 2½" MIN. IN TOP AND 1" MIN. IN BOTTOM OF FLOOR SLABS, 3" MIN. IN FOOTING EXCEPT BOTTOM BARS WHICH SHALL BE 4" MIN., AND 2" MIN. IN ALL OTHER PARTS, UNLESS NOTED.

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT) UNLESS OTHERWISE NOTED.

ALL CONCRETE TO BE CLASS "C". REINFORCING BARS IN DECK, BARRIER, END BENTS, AND PIERS SHALL BE EPOXY COATED.

ALL THE EXPOSED FACES OF THE END BENTS, BARRIERS, BARRIER TRANSITIONS AND THE FACE OF THE DECK COPING, SHALL RECEIVE SURFACE SEAL. ALL SURFACE SEAL WILL BE PAID FOR AS LUMP SUM.

CONTRACTOR SHALL SUBMITT LIFTING ANCHOR DETAILS FOR APPROVAL BY THE ENGINEER PRIOR TO USE. THE TOP OF THE LIFTING ANCHORS SHALL BE RECESSED ½" MINIMUM FROM THE SURFACE OF THE PANEL. THE LIFTING ANCHORS SHALL BE HOT-DIP GALVANIZED.

DESIGN DATA

LIVE LOAD
SUPERSTRUCTURE AND SUBSTRUCTURE DESIGNED PER AASHTO LRFD GUIDE SPECIFICATIONS FOR ACCELERATED BRIDGE CONSTRUCTION AND FOR HL-93 LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017AND ALL IT'S INTERIMS.

DEAD LOAD
DESIGNED FOR ACTUAL DEAD LOAD PLUS 35 PSF OF FUTURE WEARING SURFACE.

SLAB DESIGNED WITH A 20" STRUCTURAL DEPTH AND AN ADDITIONAL 1½" VE LMC OVERLAY APPLIED SEPARATELY.

SEISMIC DESIGN DATA

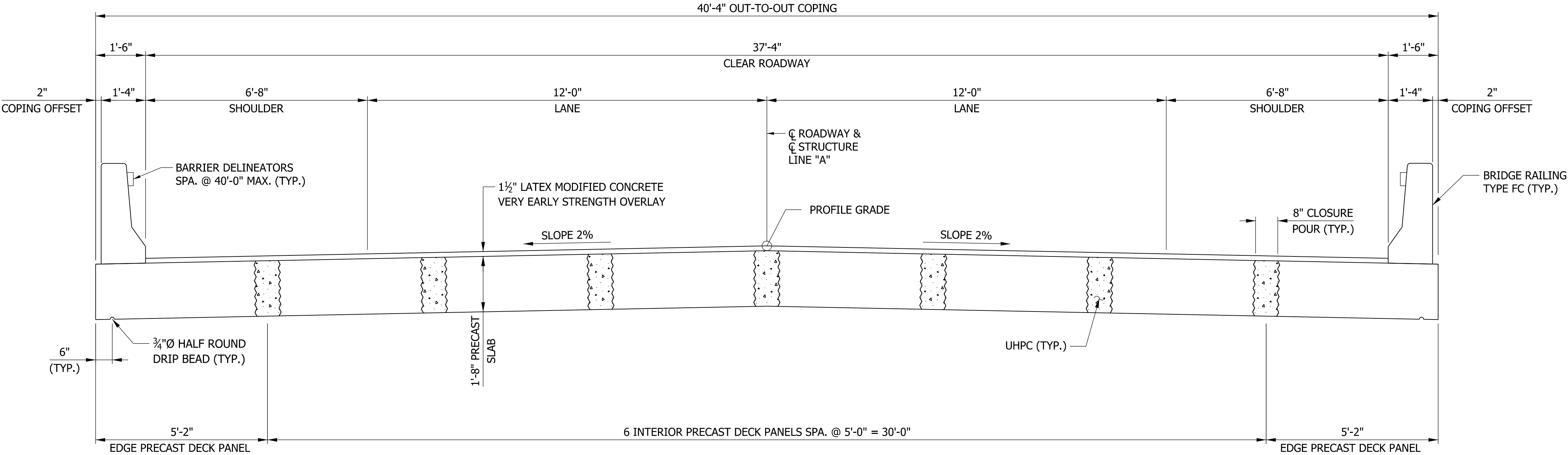
SEISMIC PERFORMANCE ZONE = 1
ACCELERATION COEFFICIENT = 0.13
SEISMIC SOIL PROFILE TYPE = SITE CLASS D

DESIGN STRENGTHS

CLASS "C" CONCRETE f'c = 4,000 psi
REINFORCING BARS fy = 60,000 psi
UHPC CONCRETE f'c = 17,000 psi

MATERIAL NOTES

BRIDGE DECK OVERLAY:
1½" LATEX-MODIFIED VERY EARLY STRENGTH

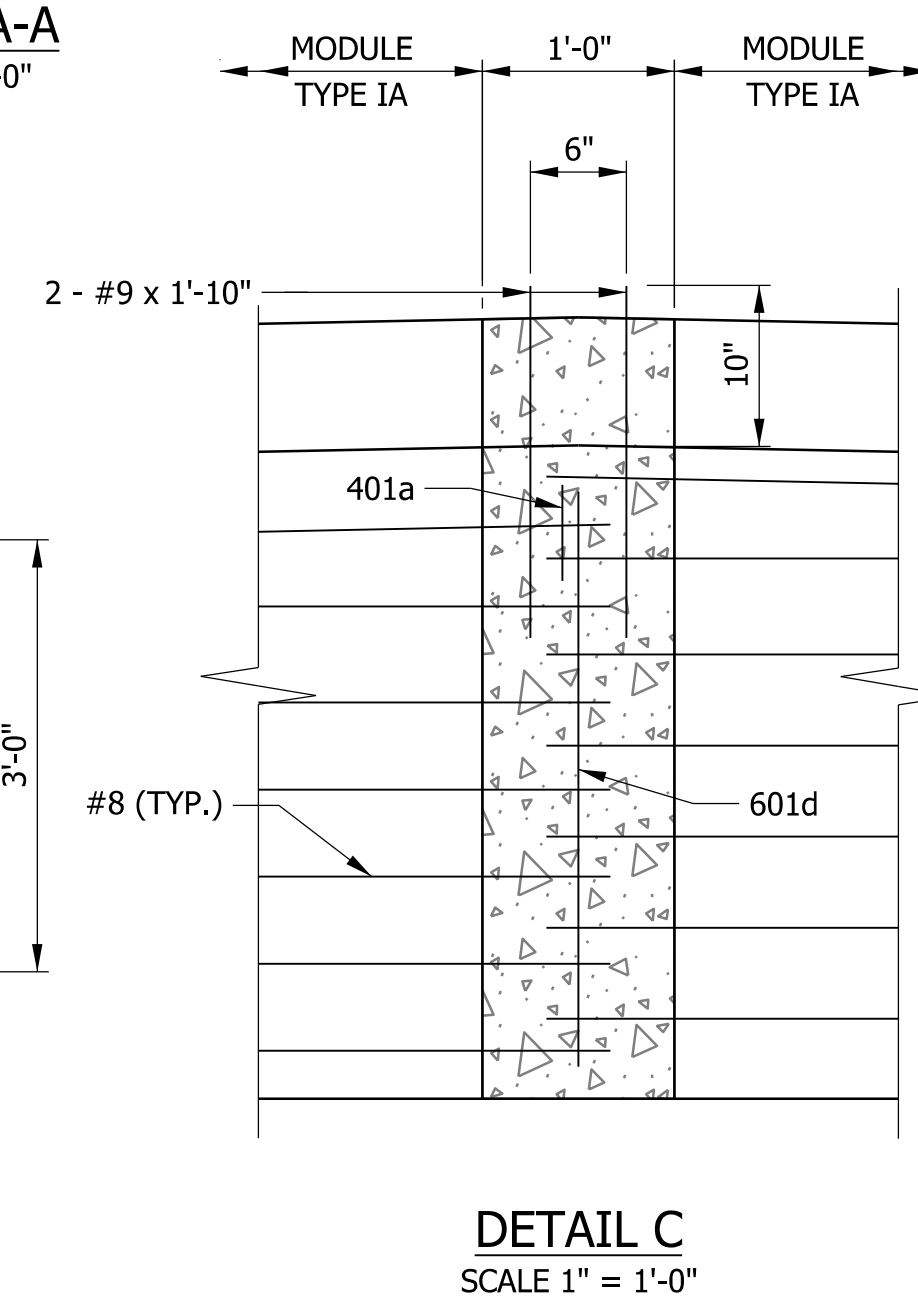
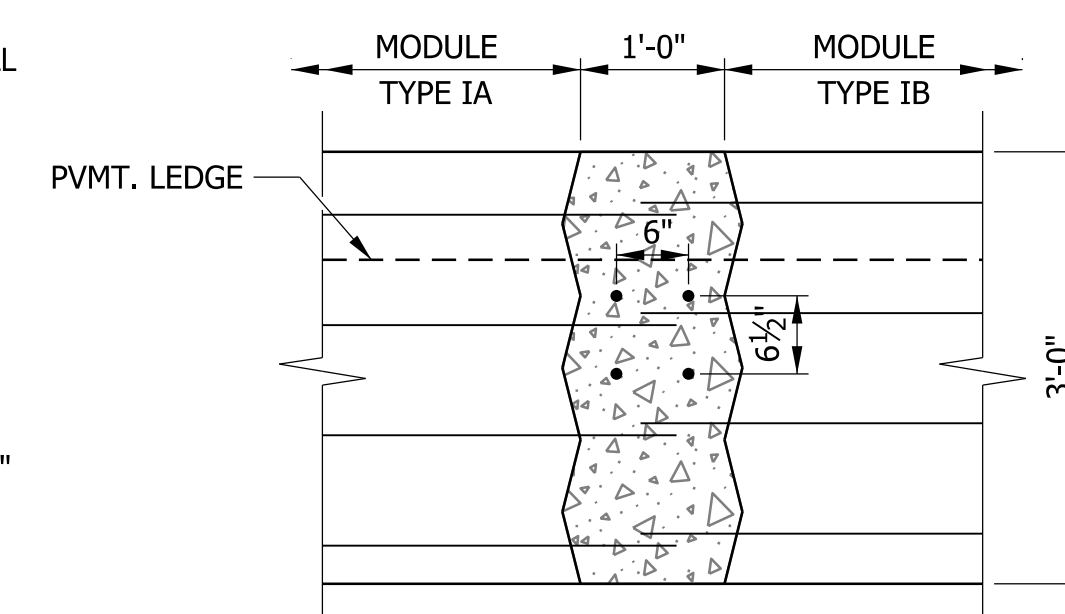
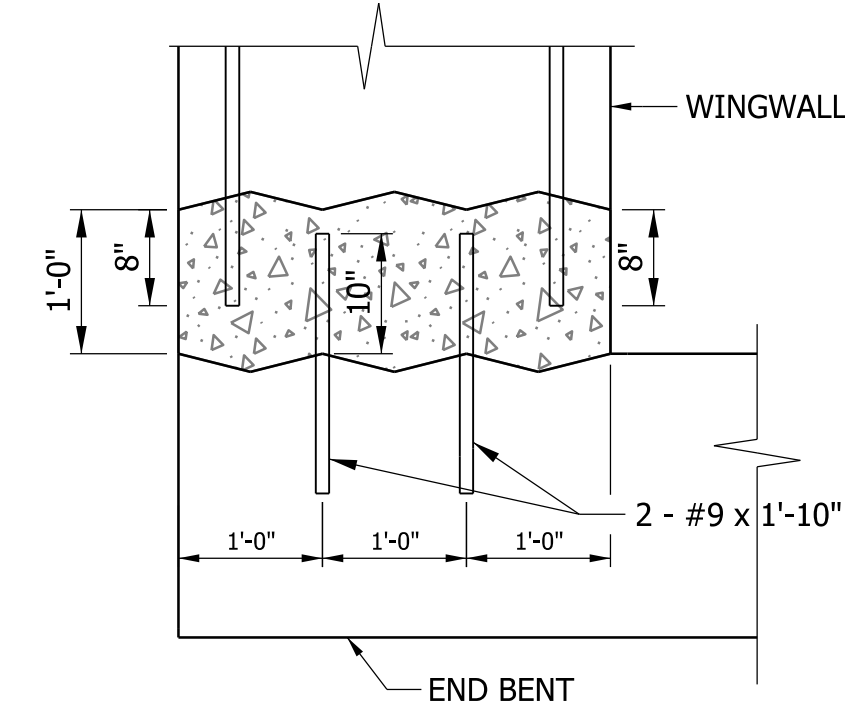
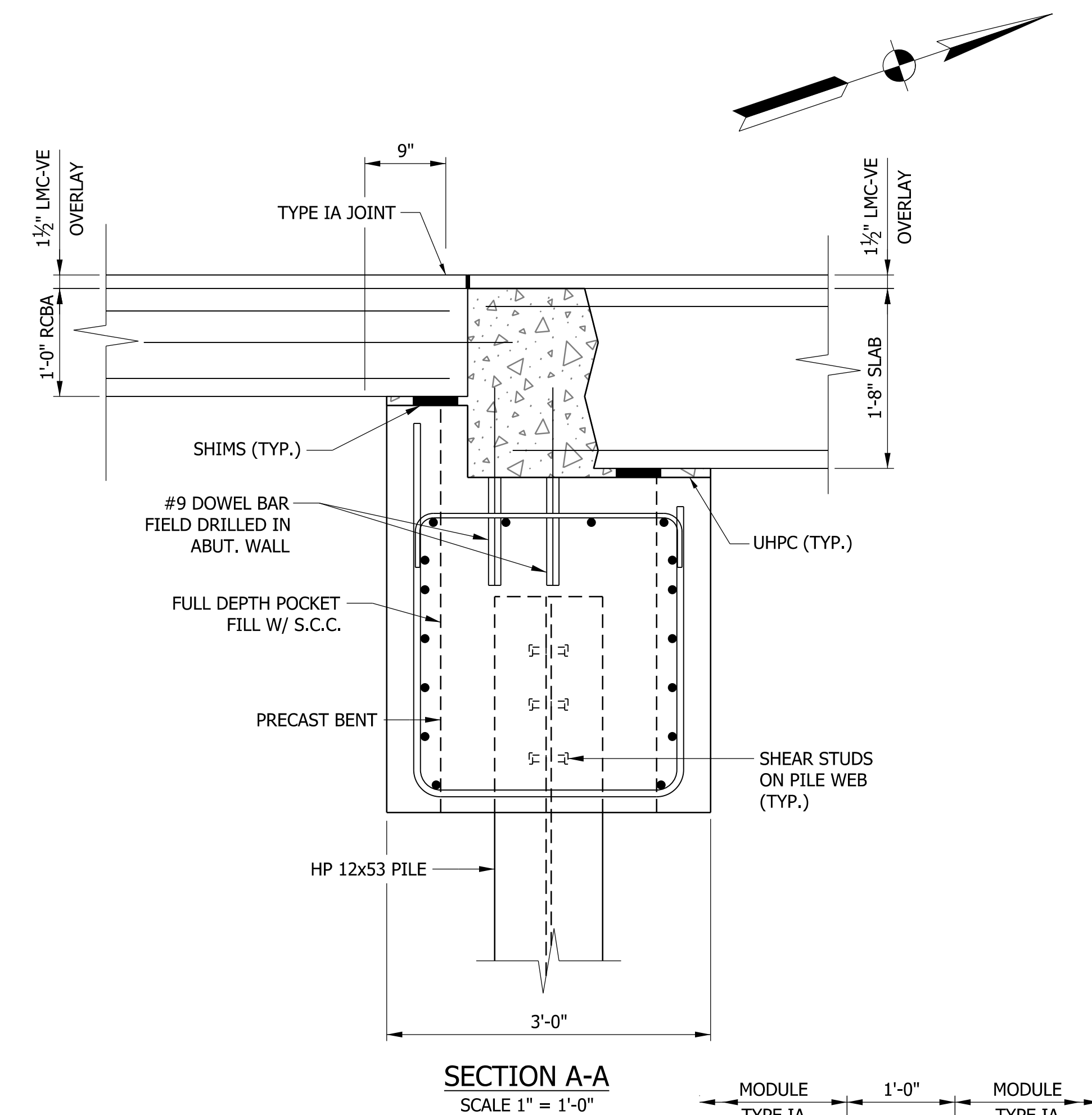
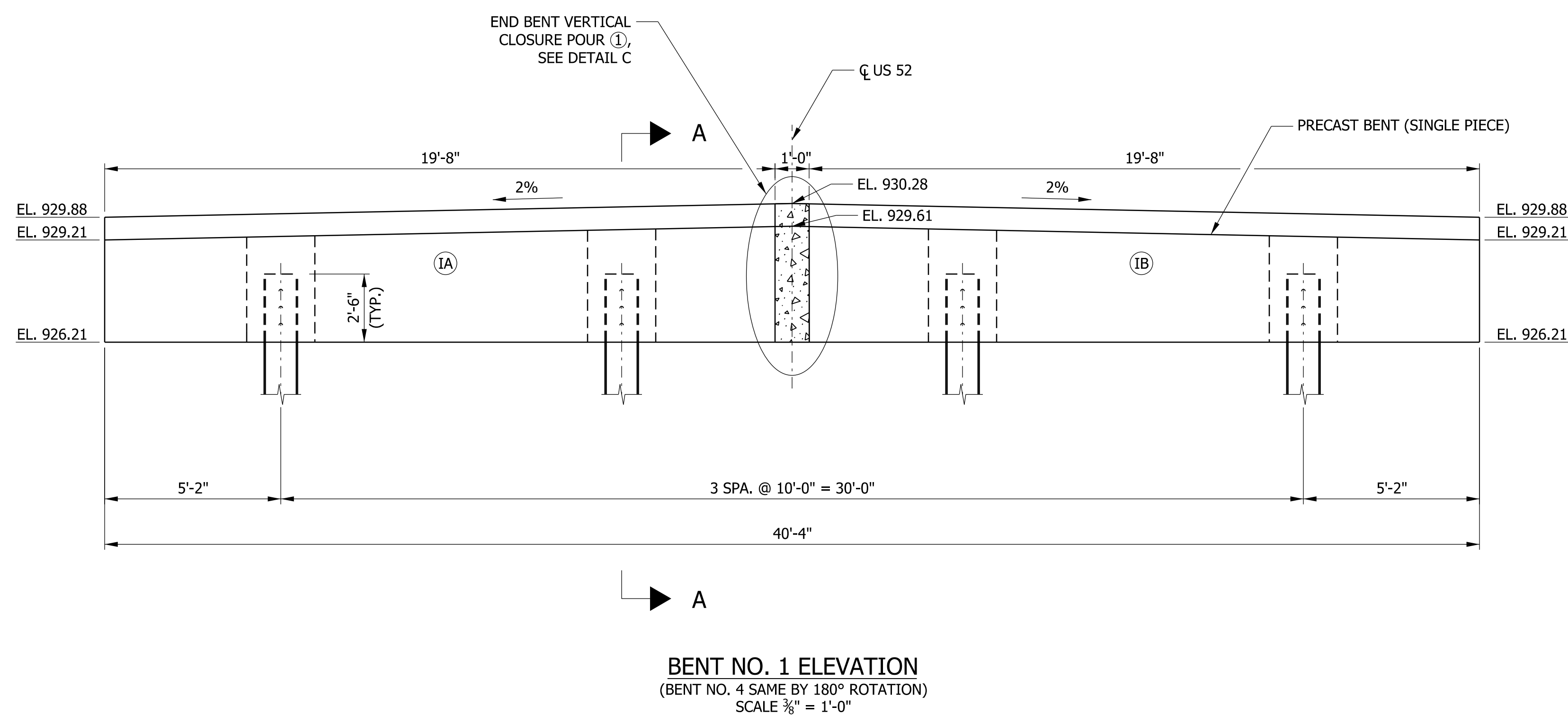
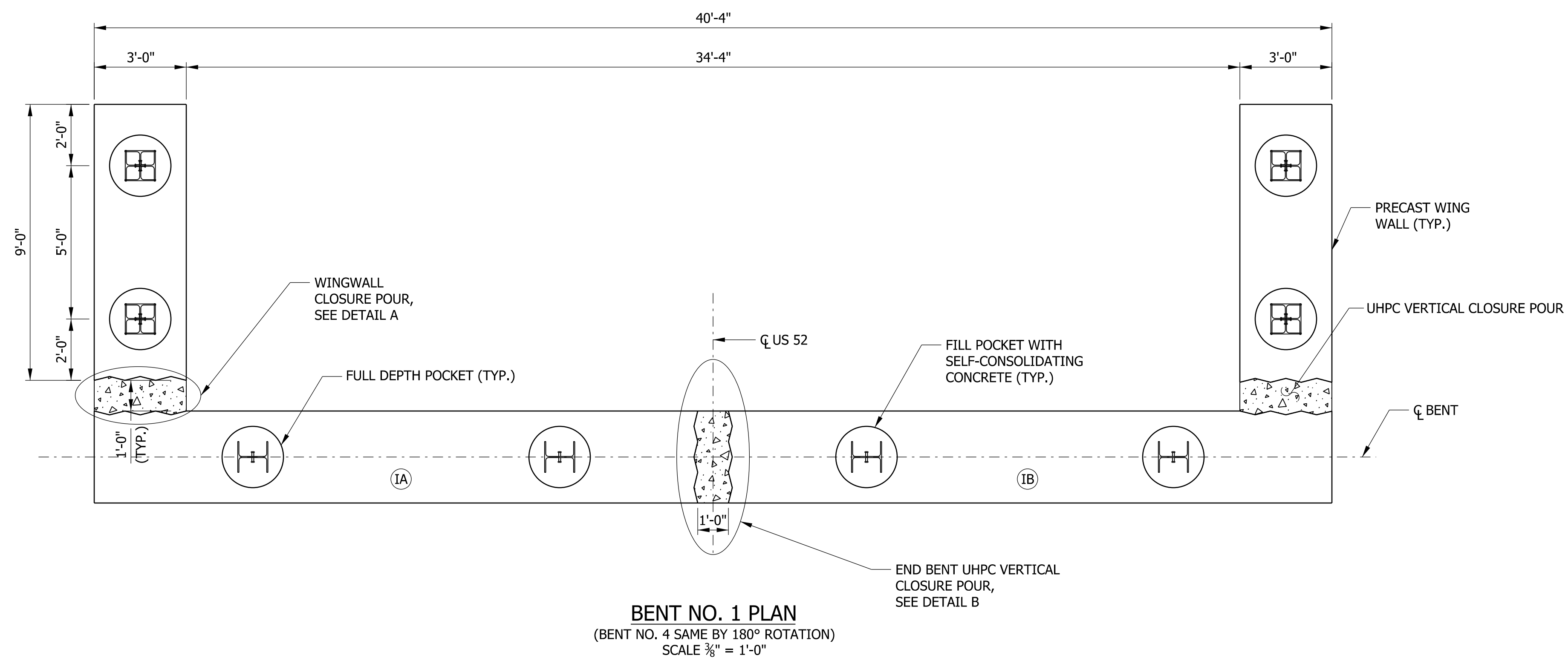


TYPICAL SECTION
(LOOKING AHEAD STATION)

CONTINUOUS REINFORCED
CONCRETE SLAB BRIDGE
3 SPAN: 27'-0", 36'-0", 27'-0"
SKEW: NONE
37'-4" CLEAR ROADWAY
US 52 OVER MUD CREEK
RUSH COUNTY

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1/2" = 1'-0"		BRIDGE FILE 052-70-10277			
DESIGN ENGINEER				VERTICAL SCALE 1/2" = 1'-0"		DESIGNATION 1006266			
DATE									
DESIGNED: JWC		DRAWN: CVH		GENERAL PLAN		SURVEY BOOK		SHEETS	
CHECKED: MSS		CHECKED: JWC				ELECTRONIC		22 of 64	
						CONTRACT B-35450		PROJECT 1006266	



NOTE

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. USE A TEMPLATE TO POSITION AND GUIDE THE PILES DURING DRIVING

LEGEND

S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE

ccarter
3/27/2020 4:38:53 pm
model: Sheet1
file: c:\caddlib\pw\pkless\greatlakes\d0195487\69847-s-br-abr01.dgn

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER _____ DATE _____

DESIGNED: ALM

CHECKED: ALK

INDIANA
DEPARTMENT OF TRANSPORTATION

END BENT DETAILS

HORIZONTAL SCALE	BRIDGE FILE
------------------	-------------

AS SHOWN	052-70-1027
----------	-------------

VERTICAL SCALE	DESIGNATIO
----------------	------------

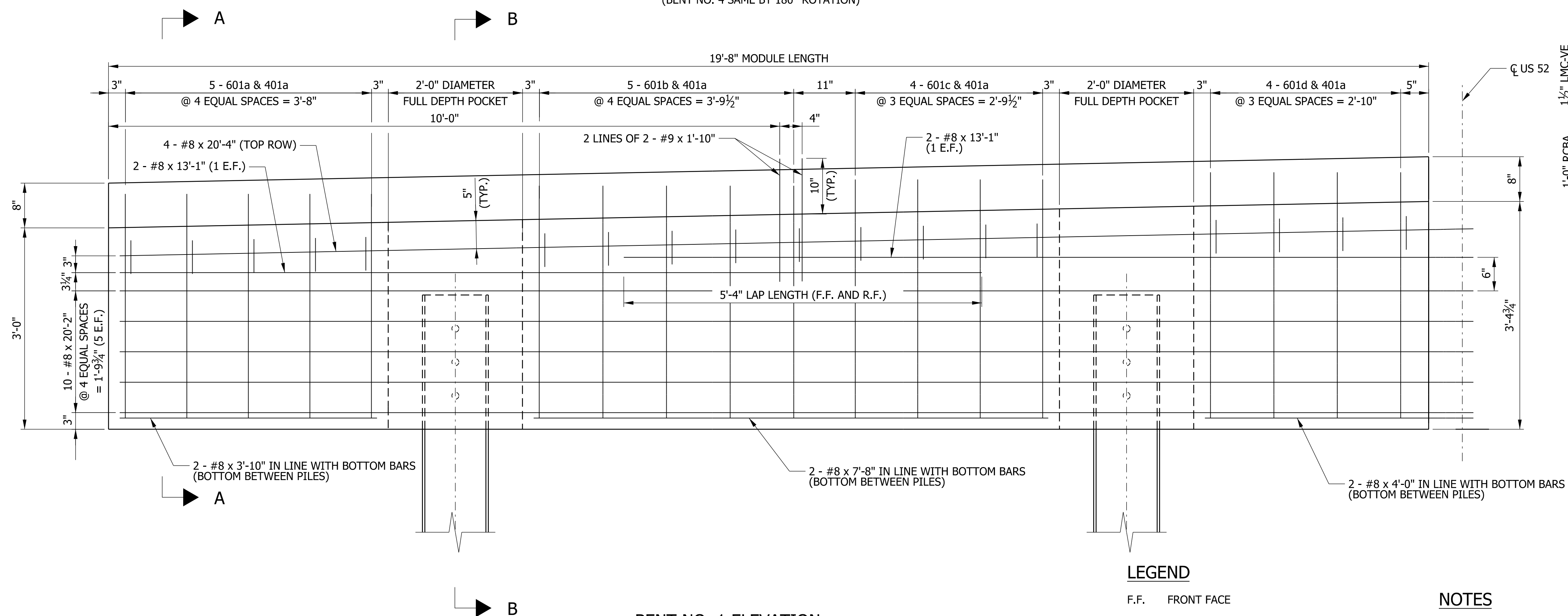
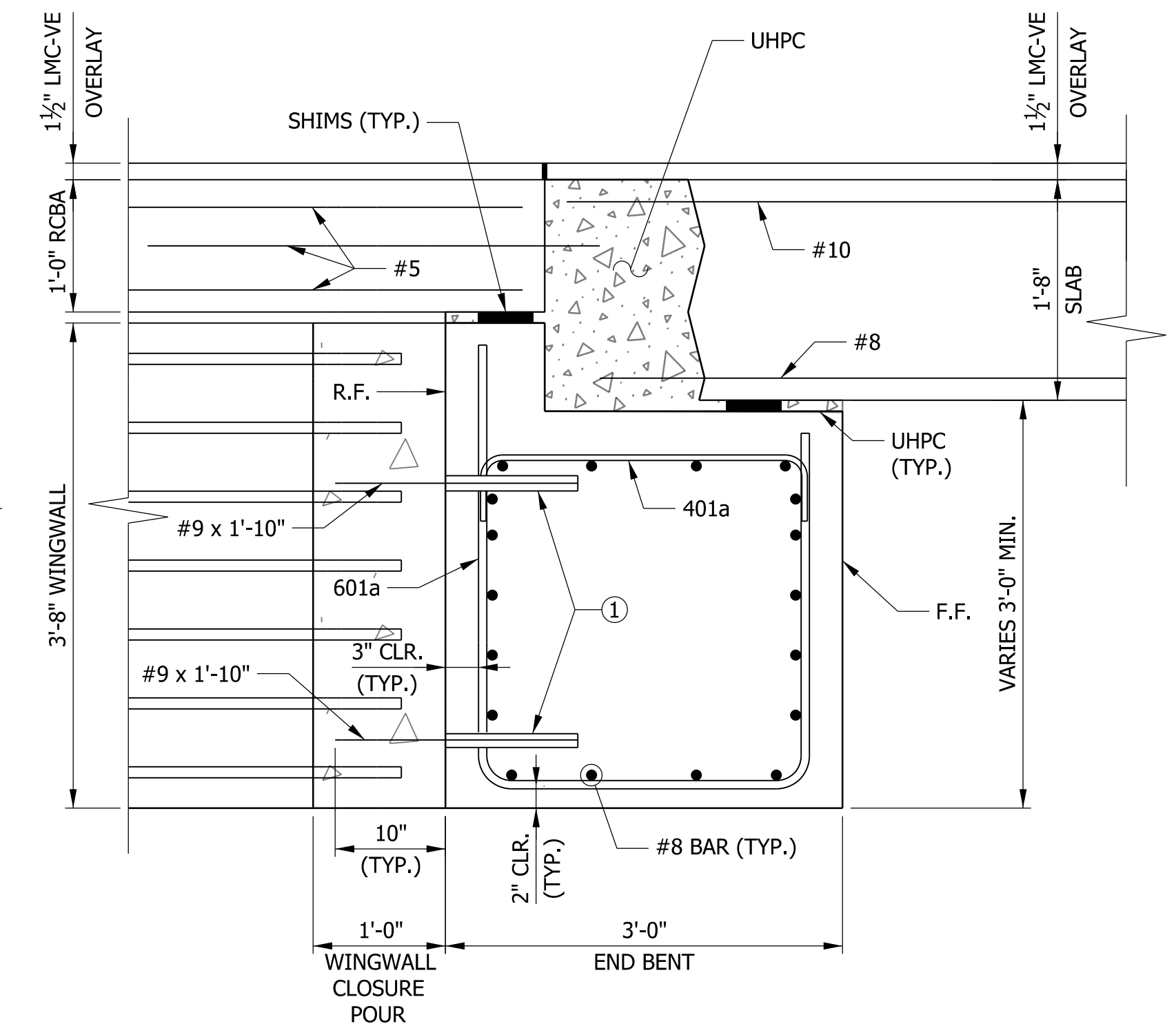
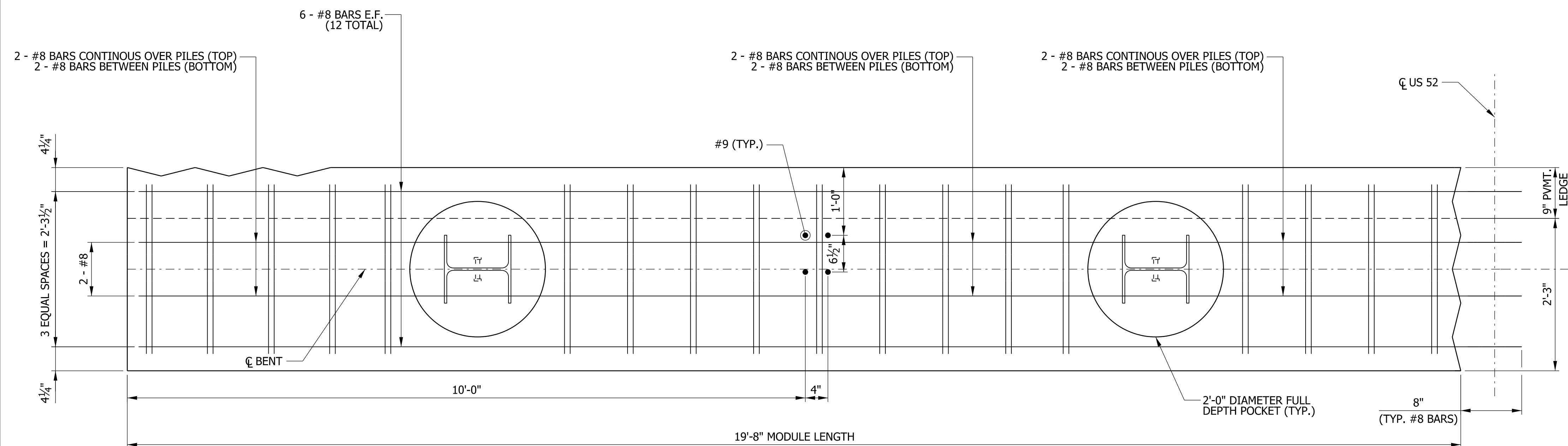
AS SHOWN	1006266
----------	---------

SURVEY BOOK	SHEETS
-------------	--------

ELECTRONIC	23	of	
------------	----	----	--

CONTRACT	PROJECT
----------	---------

B-35450	1006266
---------	---------

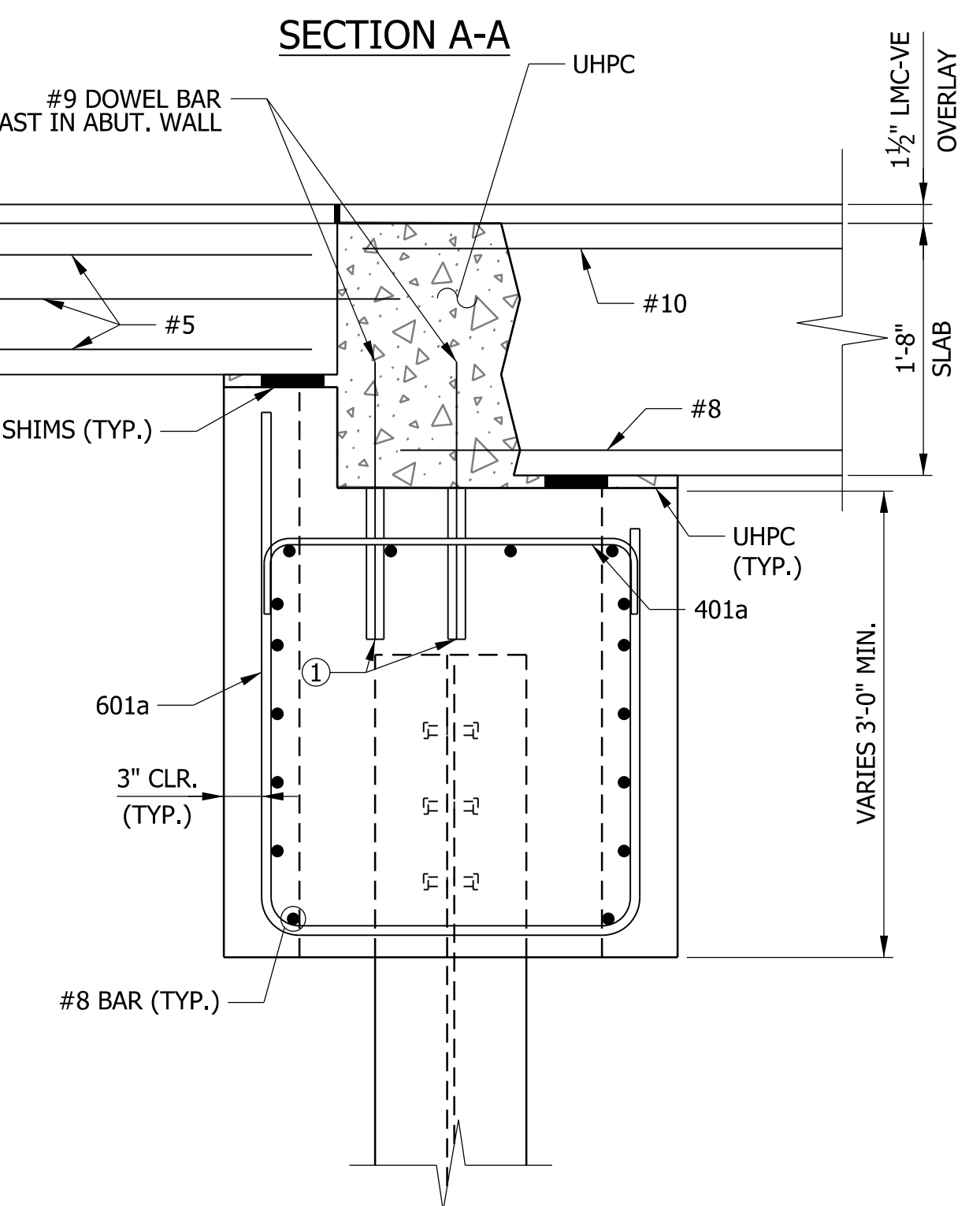


LEGEND

F.F.	FRONT FACE
R.F.	REAR FACE
E.F.	EACH FACE
RCBA	REINFORCED CONCRETE APPROACH SLAB
①	FIELD DRILLED HOLE IN CONCRETE. EMBEDED ANCHOR BOLT SHALL BE 1/2" MINIMUM WITH AN APPROVED ANCHOR BOLT MINIMUM PULLOUT = 75.0 KIPS.

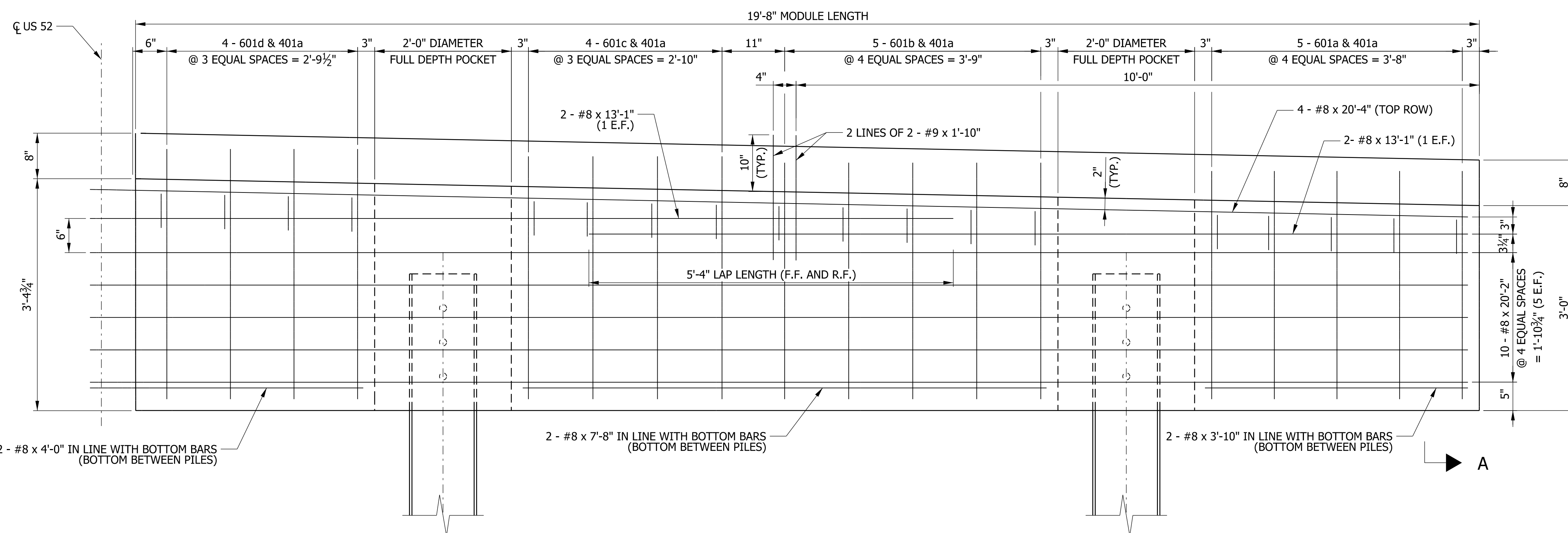
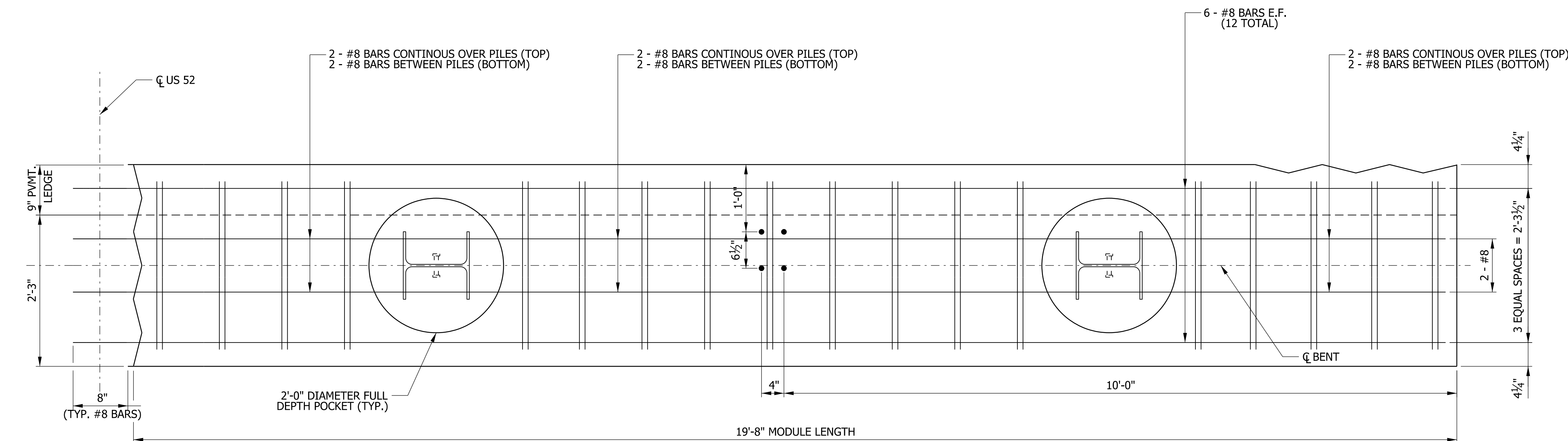
NOTES

1. ALL ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
2. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. USE A TEMPLATE TO POSITION AND GUIDE THE PILES DURING DRIVING.
3. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, SEE SPECIAL PROVISIONS.



DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE				
			$\frac{3}{8}" = 1'-0"$		052-70-10277				
			VERTICAL SCALE		DESIGNATION				
			$\frac{3}{8}" = 1'-0"$		1006266				
DESIGNED: _____ ALM		DRAWN: _____ MR		END BENT DETAILS MODULE TYPE IA		SURVEY BOOK		SHEETS	
CHECKED: _____ AMK		CHECKED: _____ MLT				ELECTRONIC		24 of 64	
				CONTRACT		PROJECT			
				B-35450		1006266			



LEGEND

F.F.	FRONT FACE
R.F.	REAR FACE
E.F.	EACH FACE
RCBA	REINFORCED CONCRETE APPROACH SLAB

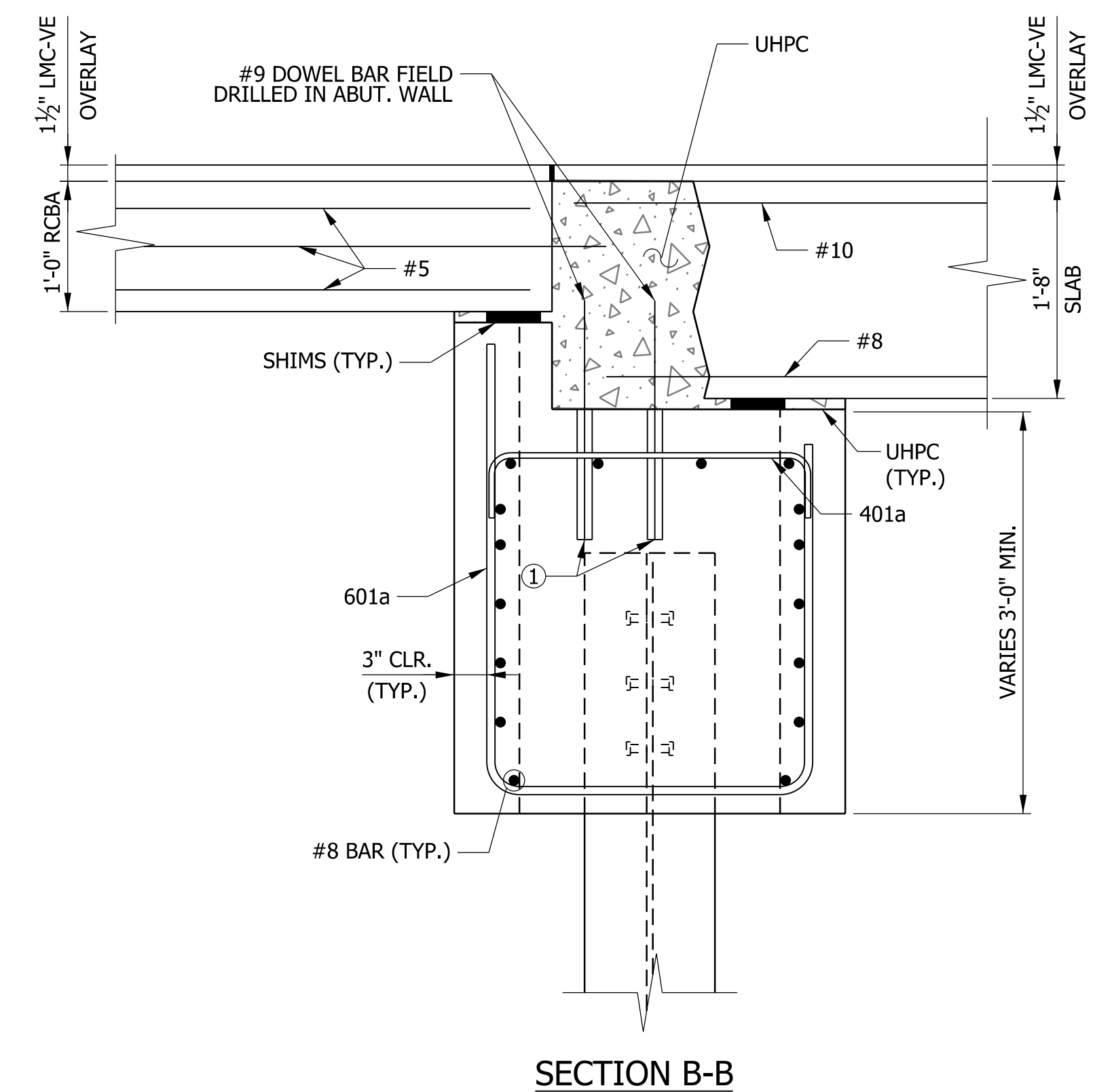
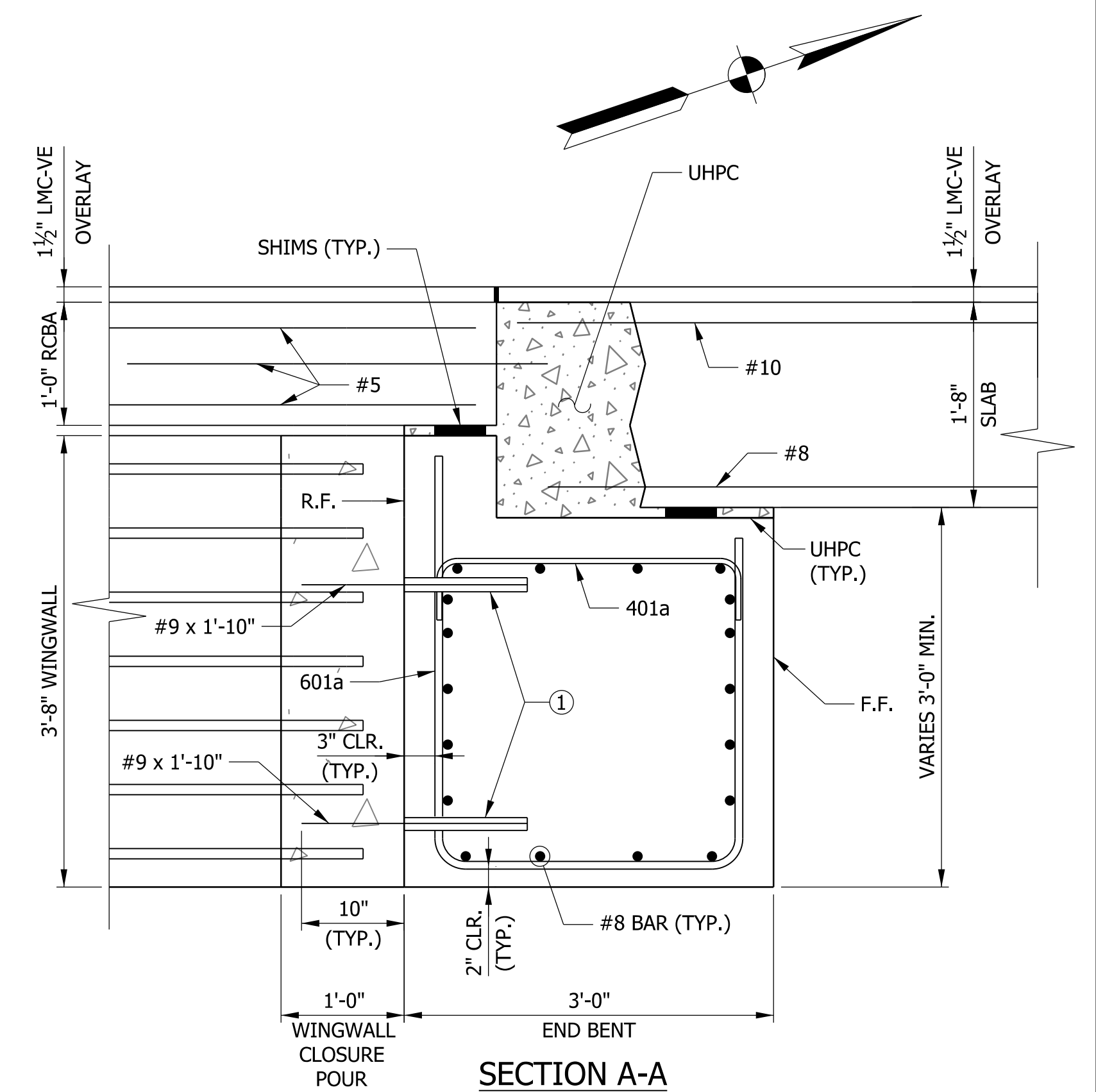
① FIELD DRILLED HOLE IN CONCRETE. EMBED BAR 10 1/2" MINIMUM WITH AN APPROVED ANCHOR SYSTEM. MINIMUM PULLOUT = 75.0 KIPS.

NOTES

1. ALL ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
2. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. USE A TEMPLATE TO POSITION AND GUIDE THE PILES DURING DRIVING.
3. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 INCHES FROM THE PILE SHEATH. IF CONTRACTOR WANTS TO ADD ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.

BENT NO. 1 ELEVATION

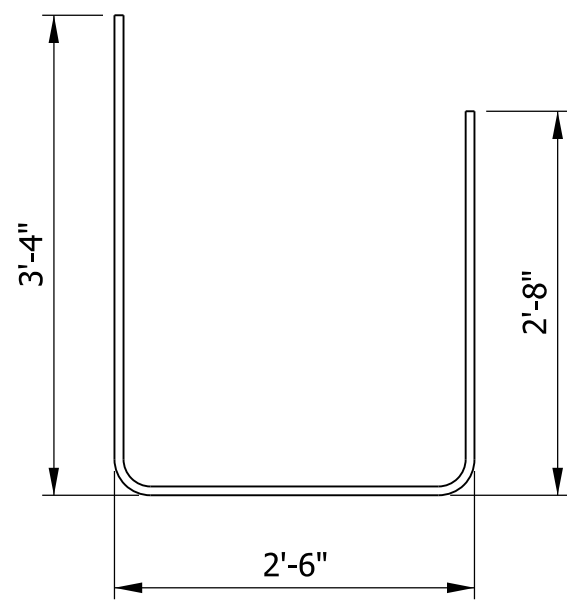
(BENT NO. 4 SAME BY 180° ROTATION)



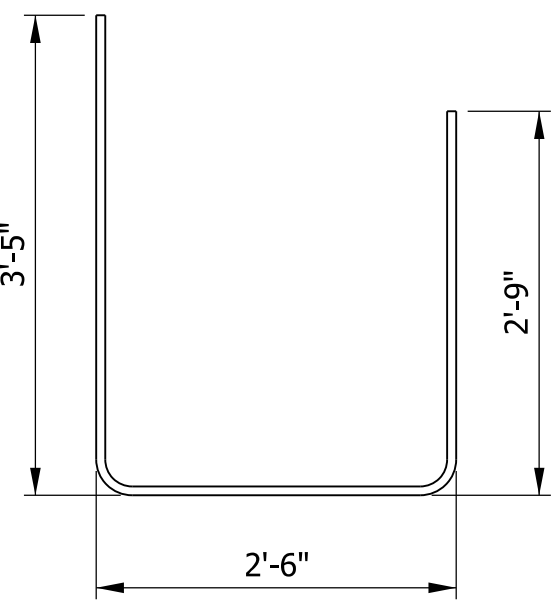
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE			
				$\frac{3}{8}" = 1'-0"$		052-70-10277			
				VERTICAL SCALE		DESIGNATION			
				$\frac{3}{8}" = 1'-0"$		1006266			
DESIGNED: _____ ALM		DRAWN: _____ MR		END BENT DETAILS MODULE TYPE IB		SURVEY BOOK		SHEETS	
						ELECTRONIC		25 of 64	
CHECKED: _____ AMK		CHECKED: _____ MLT				CONTRACT		PROJECT	
						B-35450		1006266	

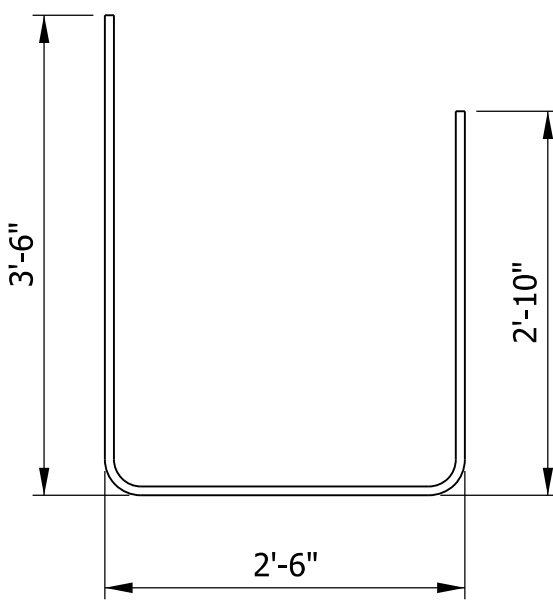
nkless
3/27/2020 8:34:58 pm
model-sheet1
file: c:\caddila\pw\inkless\greatakes\0195487\09847-s-br-ab004.dgn



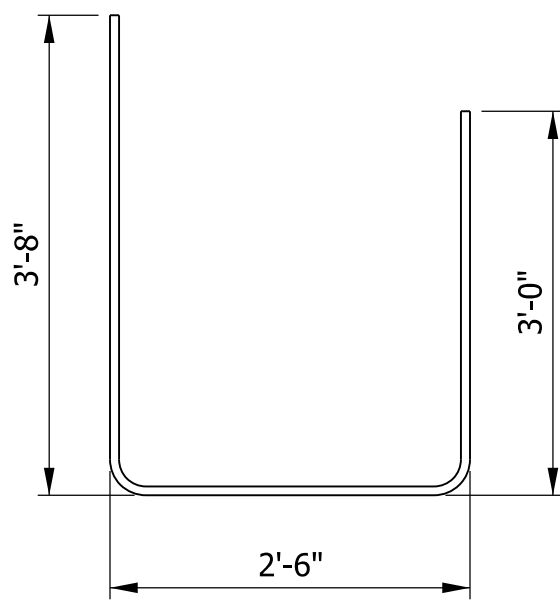
601a x 8'-6"



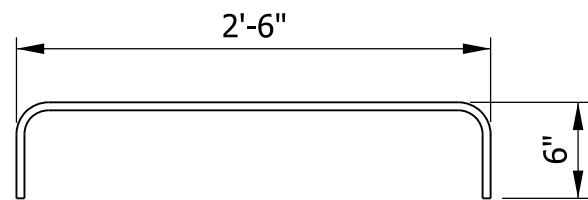
601b x 8'-8"



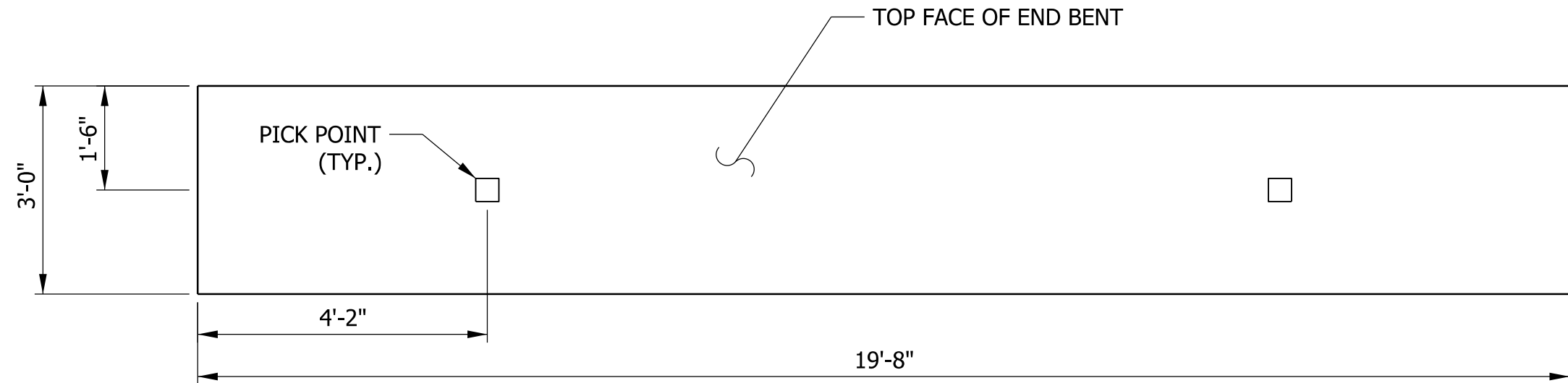
601c x 8'-10"



601d x 9'-2"



401a x 3'-6"



MODULE IA PICK POINTS
MODULE IB SAME
(N.T.S)

BILL OF MATERIALS

END BENT CLOSURE POUR
(QUANTITIES FOR ONE END
BENT, TWO REQUIRED)

EPOXY COATED REINFORCING

MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#9	4	1'-10"	
TOTAL #9			25
601d	1	9'-2"	
TOTAL #6			14
401a	1	3'-6"	
TOTAL #4			3
TOTAL EPOXY COATED REINFORCING BARS			42
CONCRETE			
ULTRA HIGH PERFORMANCE CONCRETE			0.3 CYS
MISCELLANEOUS			
SURFACE SEAL (4 SFT)			1 LS

BILL OF MATERIALS

END BENT MODULE TYPE IA
MODULE TYPE IB SAME
(QUANTITIES FOR ONE
MODULE, TWO REQUIRED)

EPOXY COATED REINFORCING

MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#9	8	1'-10"	
TOTAL #9			50
#8	4	20'-4"	
#8	10	20'-2"	
#8	4	13'-1"	
#8	2	3'-10"	
#8	2	4'-0"	
#8	2	3'-10"	
TOTAL #8			981
601a	5	8'-6"	
601b	5	8'-8"	
601c	4	8'-10"	
601d	4	9'-2"	
TOTAL #6			240
401a	18	3'-6"	
TOTAL #4			43
TOTAL EPOXY COATED REINFORCING BARS			1314
CONCRETE			
CONCRETE, C, SUBSTRUCTURE, PRECAST			6.8 CYS
SELF-CONSOLIDATING CONCRETE			0.8 CYS
MISCELLANEOUS			
CONCRETE, C, SUBSTRUCTURE, PRECAST			6.8 CYS
SELF-CONSOLIDATION CONCRETE			0.8 CYS
DYNAMIC PILE LOAD TEST *			1 EACH
TEST PILE, DYNAMIC, PRODUCTION *			61 LFT
TEST PILE, DYNAMIC, RESTRIKE *			1 EACH
PILE SHOE, HP 12 x 53			2 EACH
PILE, STEEL H, HP 12 x 53 (MODULE IA -1 @ 61 LFT)			61 LFT
PILE, STEEL H, HP 12 x 53 (MODULE IB -2 @ 61 LFT)			122 LFT
SURFACE SEAL (72 SFT)			1 LS

* FOR MODULE IA ONLY

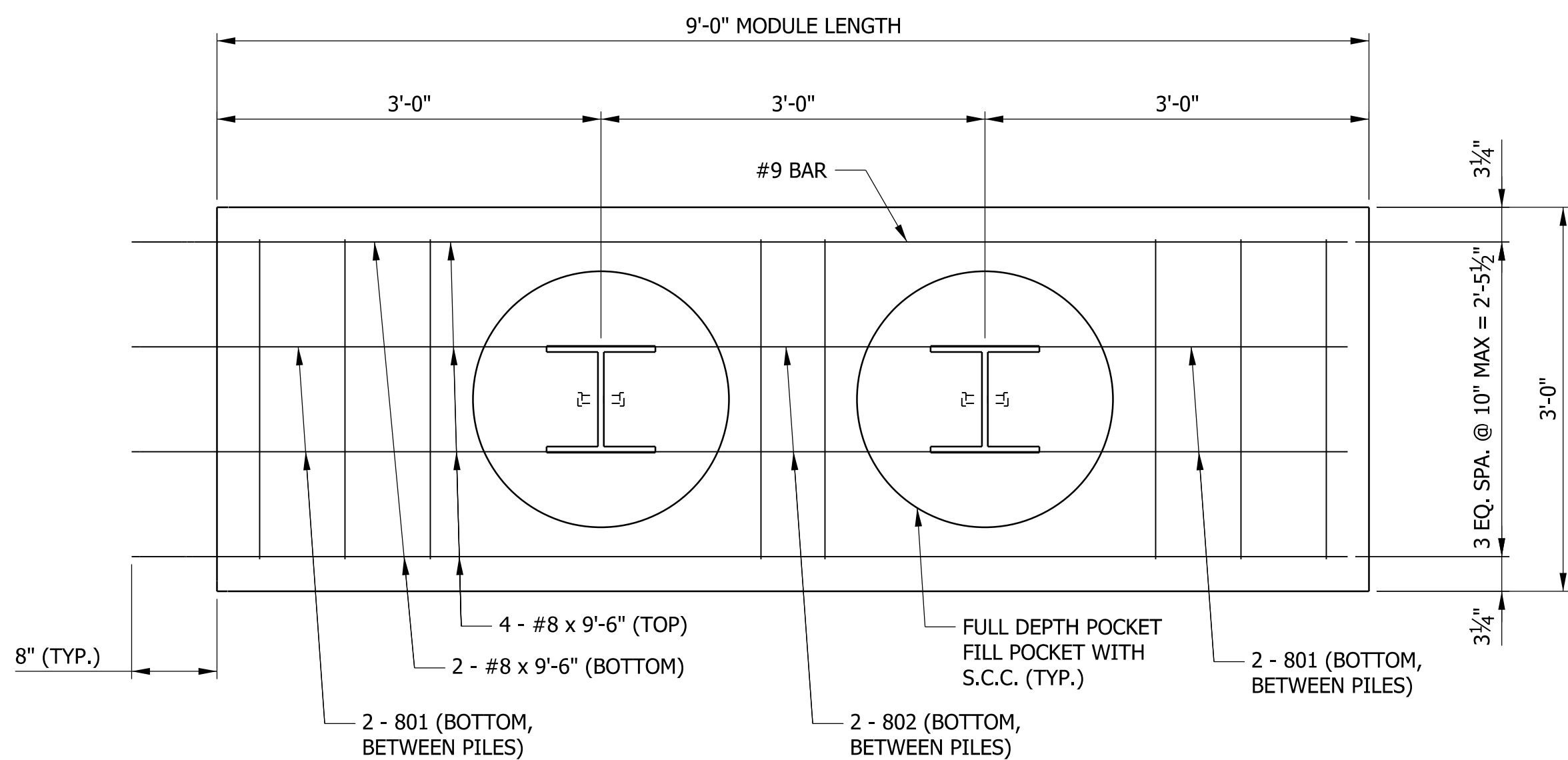
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: _____ ALM	DRAWN: _____ MR		
CHECKED: _____ AMK	CHECKED: _____ MLT		

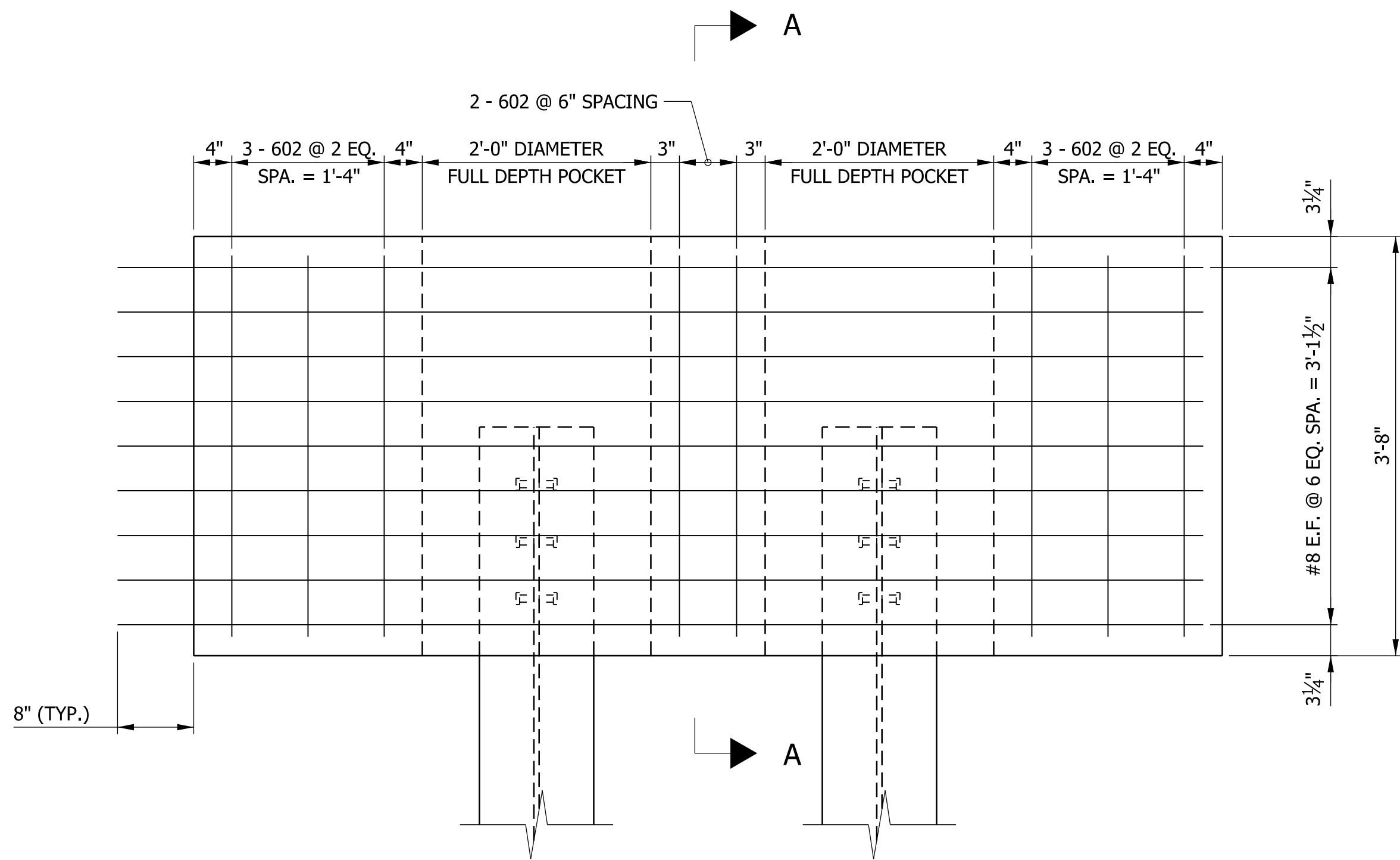
INDIANA
DEPARTMENT OF TRANSPORTATION

END BENT DETAILS

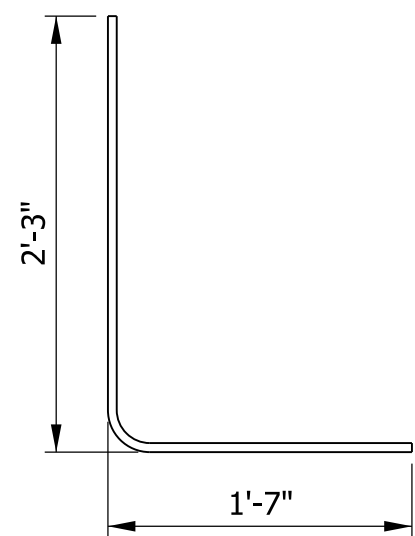
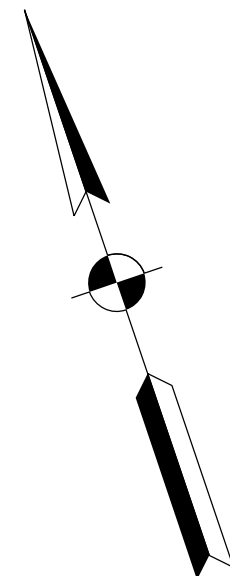
HORIZONTAL SCALE 3/8" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 3/8" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 26 of 64	
CONTRACT B-35450		PROJECT 1006266	



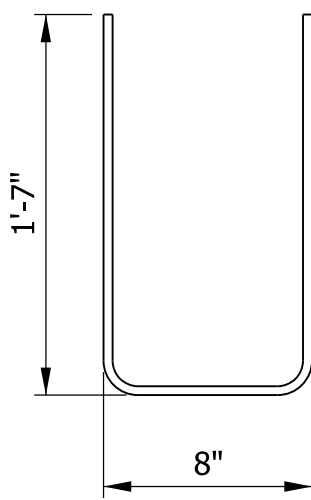
WINGWALL PLAN
(WINGWALL "C" SHOWN, WINGWALL "D" SAME,
WINGWALLS "A" AND "B" SAME BY 180° ROTATION)



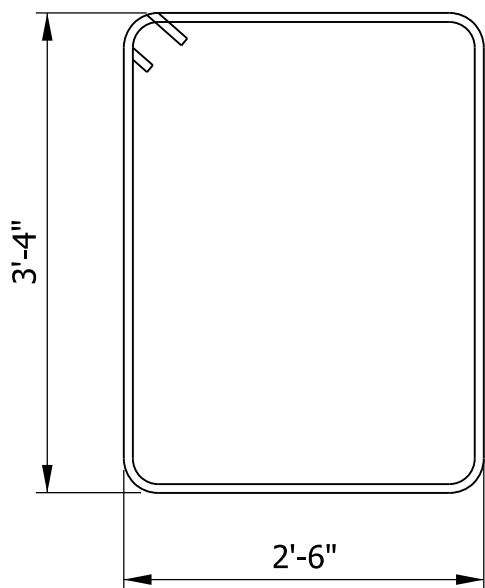
WINGWALL ELEVATION
(WINGWALL "C" SHOWN, WINGWALL "D" SAME,
WINGWALLS "A" AND "B" SAME BY 180° ROTATION)



801 x 3'-10"



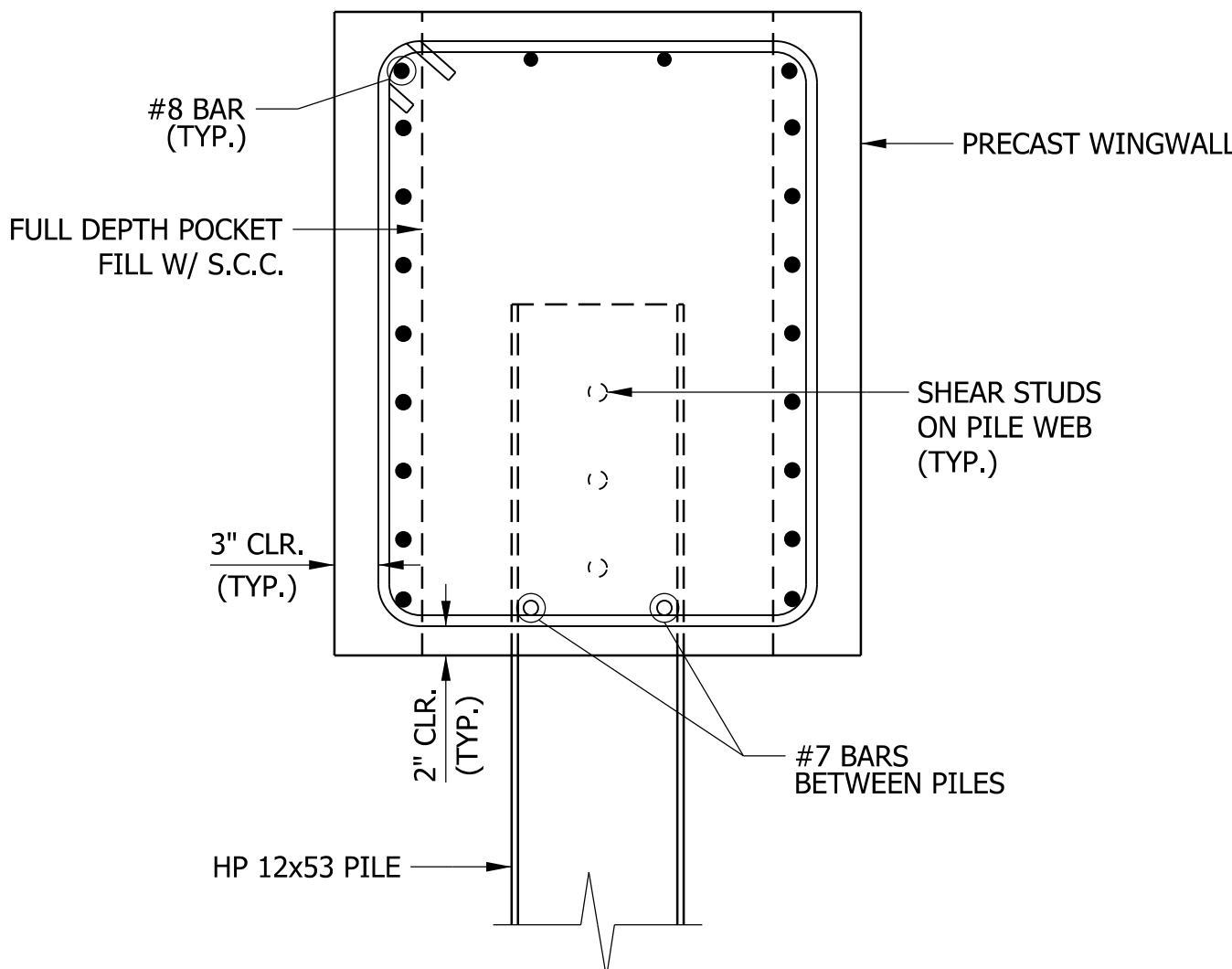
802 x 3'-10"



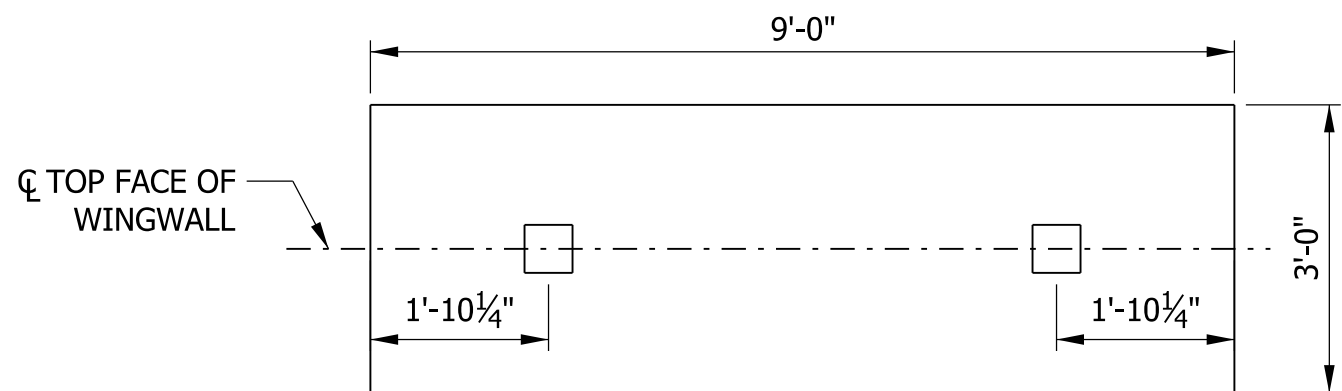
602 x 12'-5"

BILL OF MATERIALS WINGWALL (QUANTITIES FOR ONE WINGWALL, FOUR REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	20	9'-6"	
801	4	3'-10"	
802	2	3'-10"	
TOTAL #8			569
602	8	12'-5"	
TOTAL #6			150
TOTAL EPOXY COATED REINFORCING BARS			719
CONCRETE			
CONCRETE, C, SUBSTRUCTURE, PRECAST			2.9 CYS
SELF-CONSOLIDATING CONCRETE			1.0 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			2 EACH
PILE, STEEL H, HP 12 x 53 (2 @ 61 LFT)			122 LFT
SURFACE SEAL (21 SFT)			1 LS

BILL OF MATERIALS WINGWALL CLOSURE POURS (QUANTITIES FOR ONE WINGWALL CLOSURE POUR, FOUR REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
802	2	3'-10"	
TOTAL #8			21
602	1	12'-5"	
TOTAL #6			19
TOTAL EPOXY COATED REINFORCING BARS			40
CONCRETE			
ULTRA HIGH PERFORMANCE CONCRETE			0.45 CYS
MISCELLANEOUS			
SURFACE SEAL (3 SFT)			1 LS



SECTION A-A



TYPICAL MODULE PICK POINTS

SCALE: N.T.S.

NOTE

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION.
USE A TEMPLATE TO POSITION AND GUIDE THE PILES DURING DRIVING

LEGEND

S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE

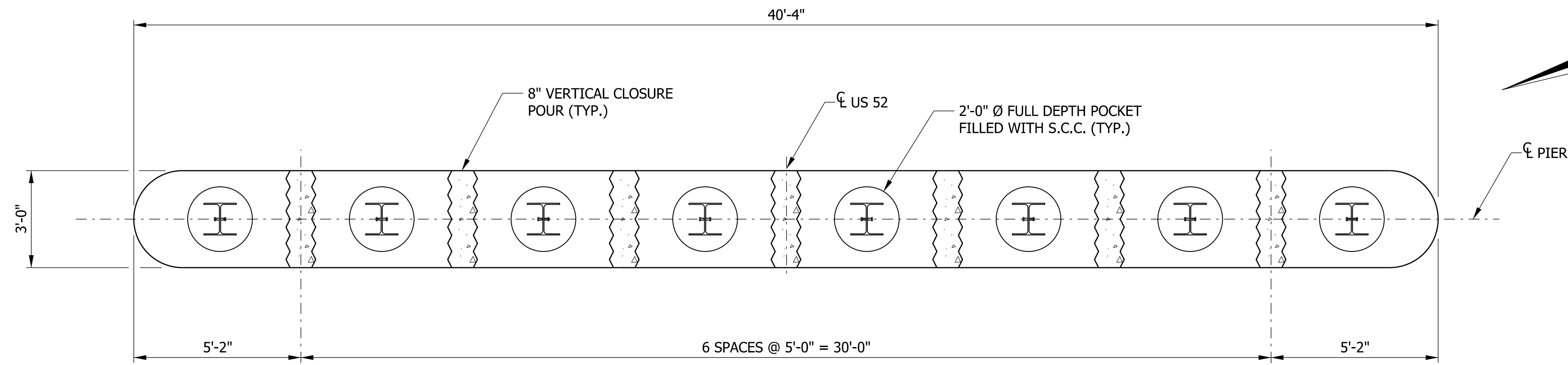
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ALM	DRAWN: MR	
CHECKED: MEW	CHECKED: MLT	

INDIANA
DEPARTMENT OF TRANSPORTATION

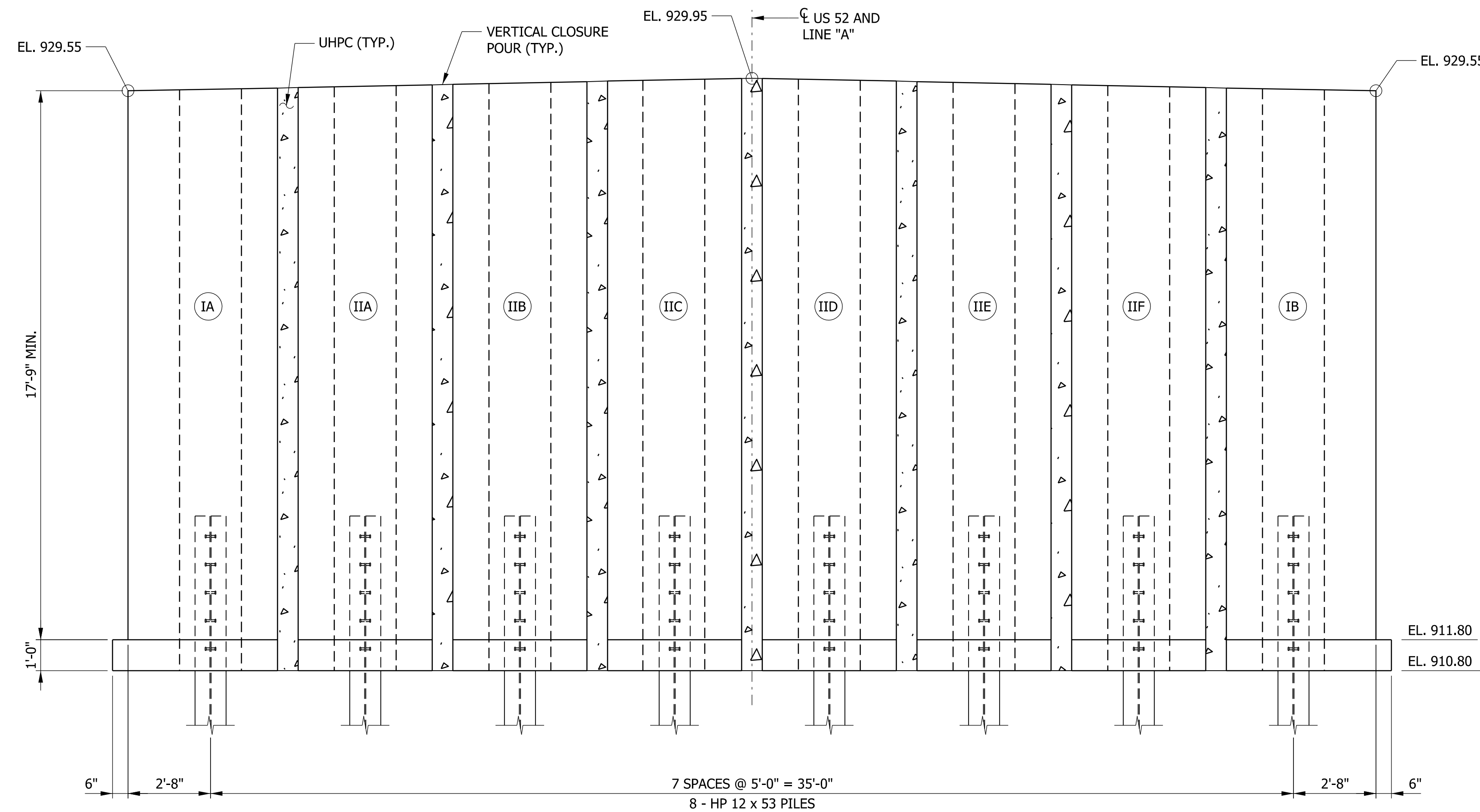
WINGWALL MODULE DETAILS

HORIZONTAL SCALE	BRIDGE FILE	
3/8" = 1'-0"	052-70-10277	
VERTICAL SCALE	DESIGNATION	
3/8" = 1'-0"	1006266	
SURVEY BOOK	SHEETS	
ELECTRONIC	27	of 64
CONTRACT	PROJECT	
B-35450	1006266	



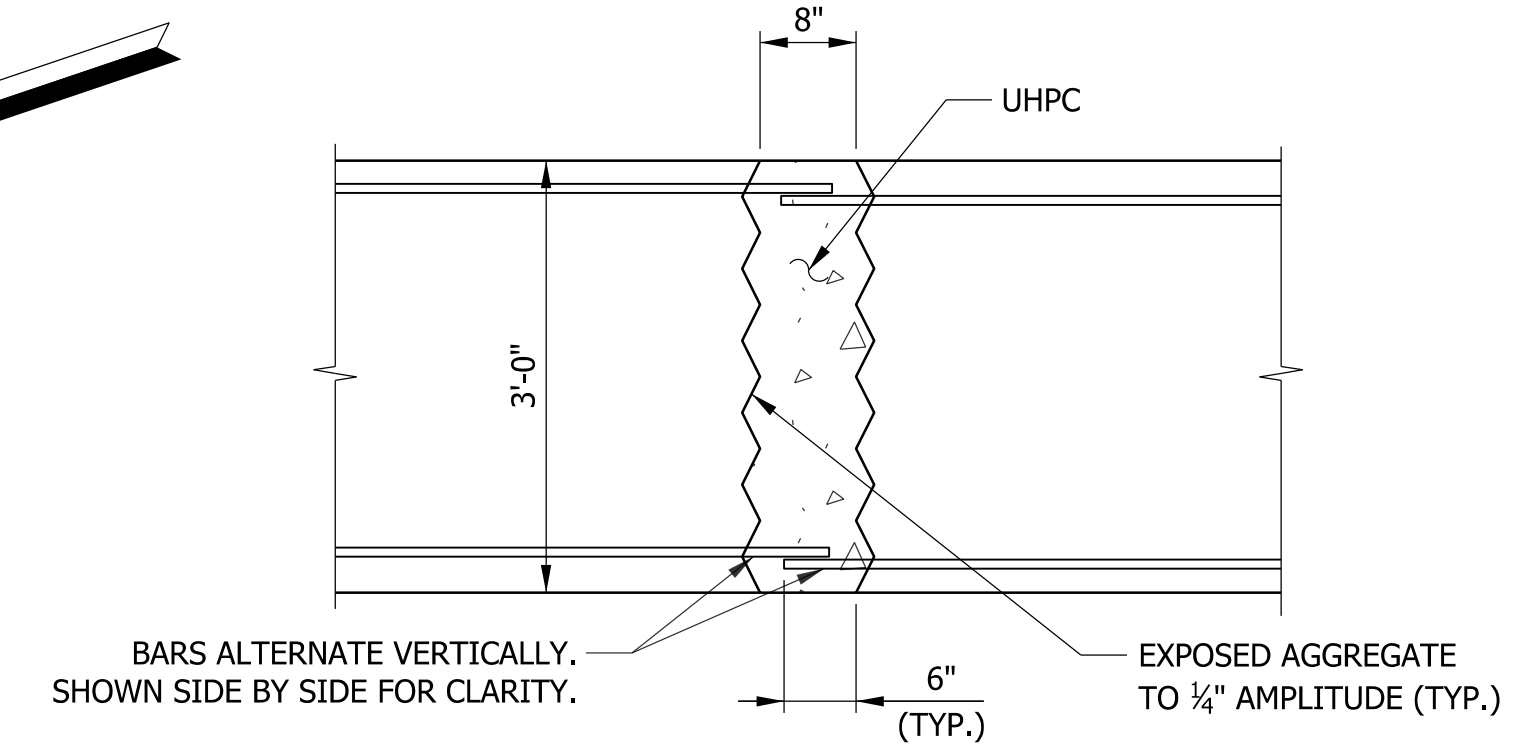
PIER NO. 2 PLAN

(PIER NO. 3 SIMILAR)
SCALE: 3/8"=1'-0"



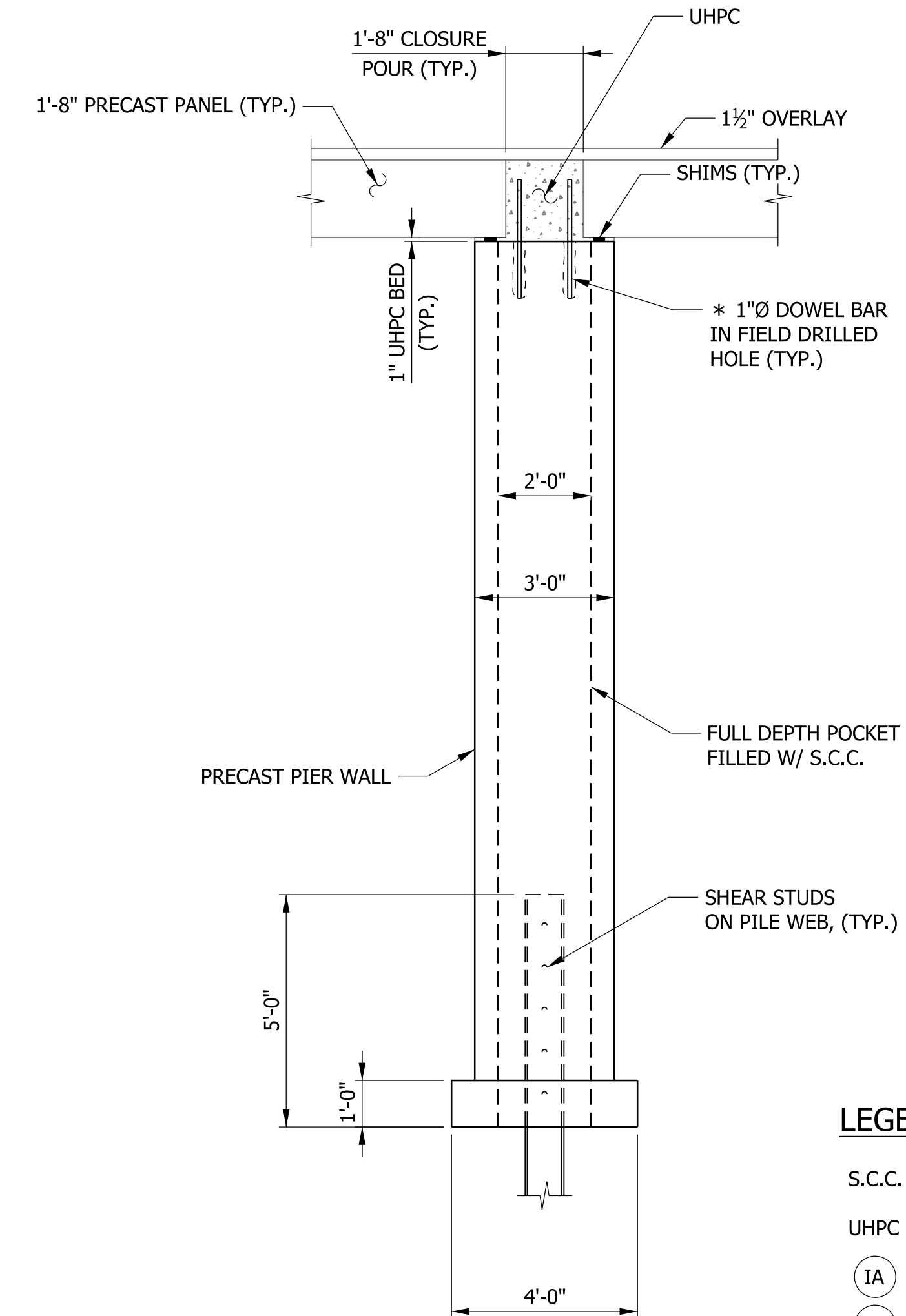
PIER NO. 2 ELEVATION

(PIER NO. 3 SIMILAR)
SCALE: 3/8"=1'-0"



PIER CLOSURE POUR DETAIL

SCALE: 3/4"=1'-0"



TYPICAL PIER SECTION

SCALE: 3/8"=1'-0"

* DOWELS WILL BE DRILLED IN AFTER
SLABS ARE PLACED. CONTRACTOR CAN
MARK LOCATIONS AFTER PLACING PIER.

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
UHP DENOTES ULTRA HIGH PERFORMANCE CONCRETE
IA DENOTES PIER MODULE TYPE IA
IB DENOTES PIER MODULE TYPE IB
IIA DENOTES PIER MODULE TYPE IIA
IIB DENOTES PIER MODULE TYPE IIB
IIC DENOTES PIER MODULE TYPE IIC
IID DENOTES PIER MODULE TYPE IID
IIE DENOTES PIER MODULE TYPE IIE
IIF DENOTES PIER MODULE TYPE IIF

NOTES

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION.
SEE PILE DRIVING TEMPLATE USP.

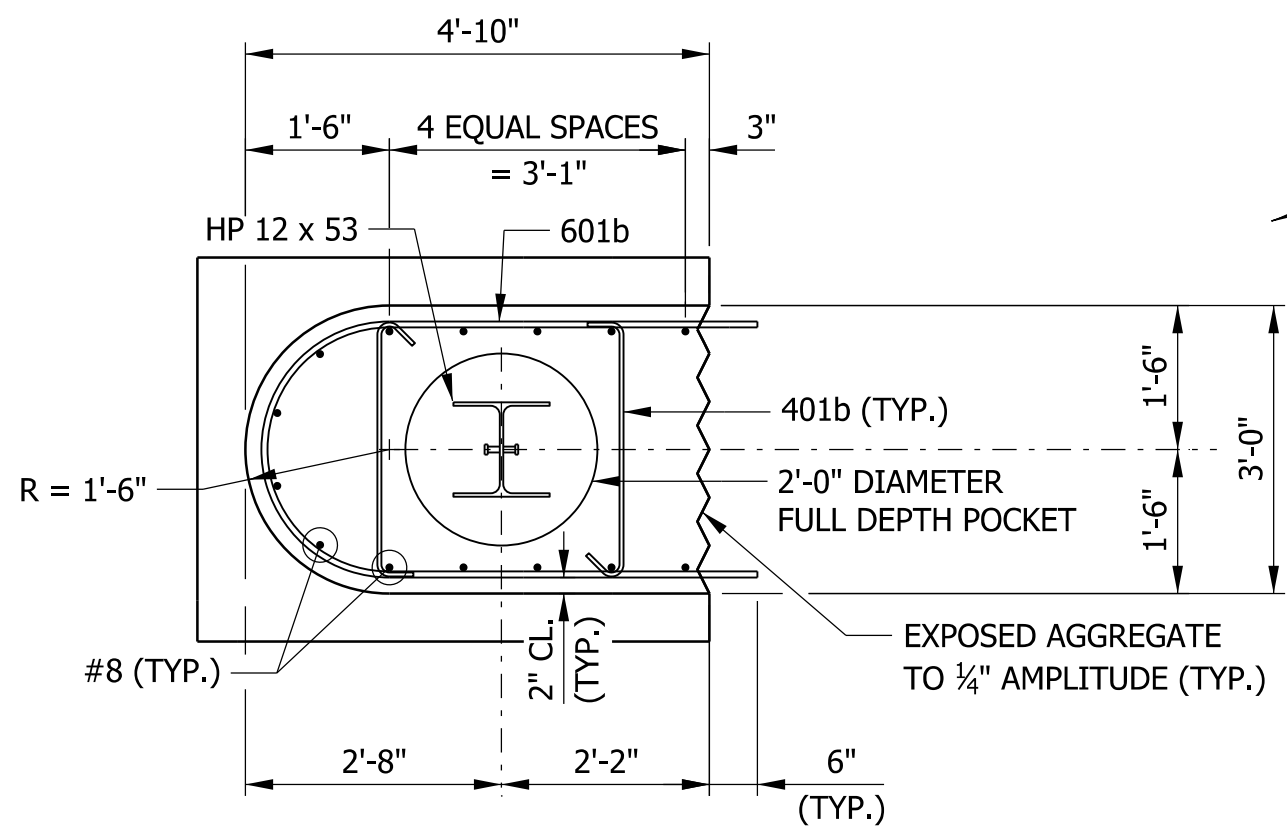
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ MEW	DRAWN: _____ CLF	
CHECKED: _____ ELS	CHECKED: _____ MEW	

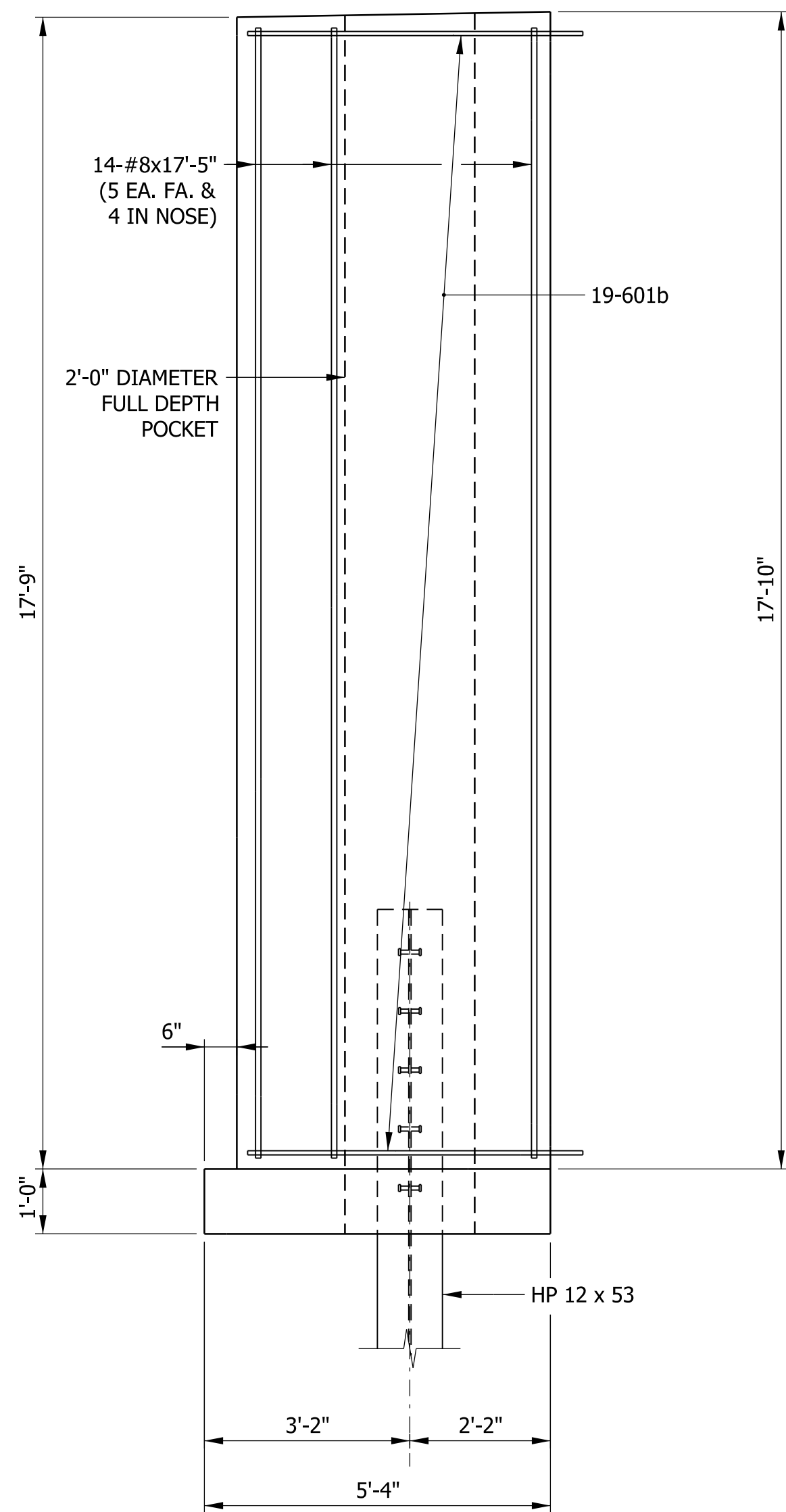
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS

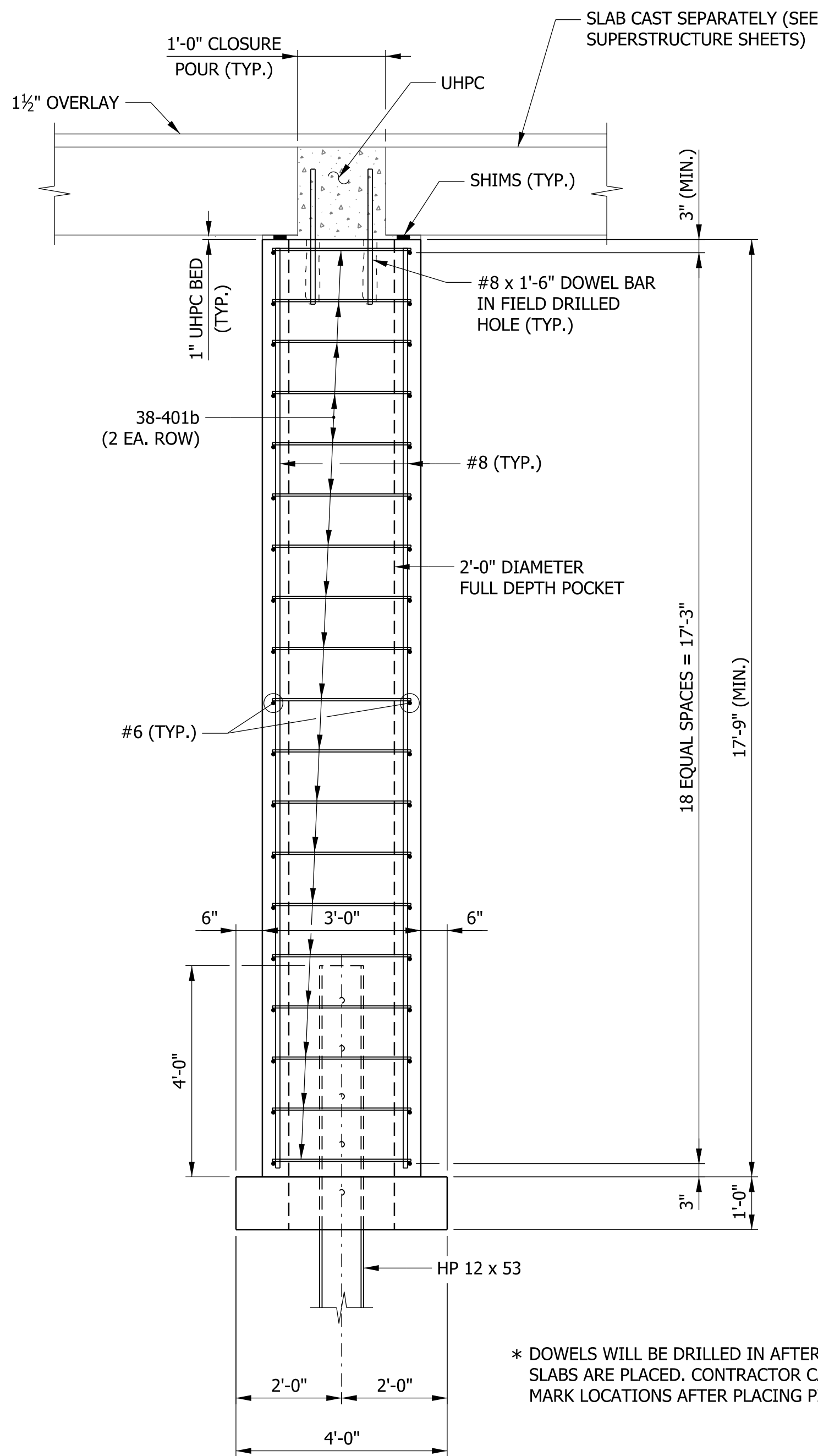
HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	052-70-10277
VERTICAL SCALE	DESIGNATION
AS SHOWN	1006266
SURVEY BOOK	SHEETS
ELECTRONIC	28 of 64
CONTRACT	PROJECT
B-35450	1006266



MODULE TYPE IA
PLAN



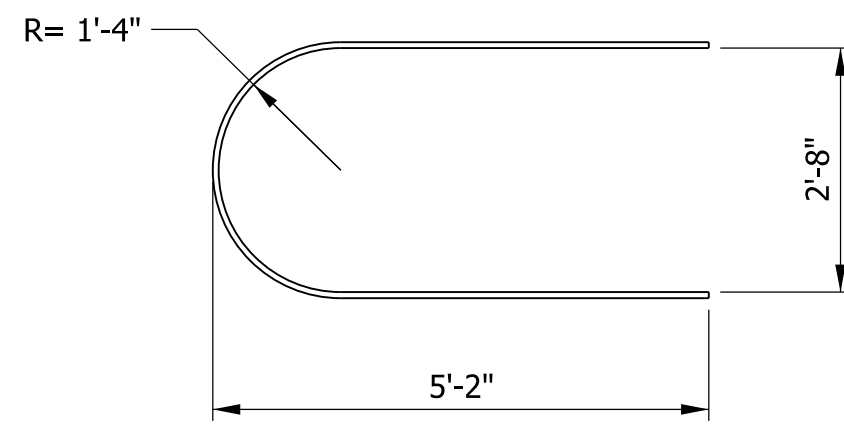
MODULE TYPE IA
ELEVATION



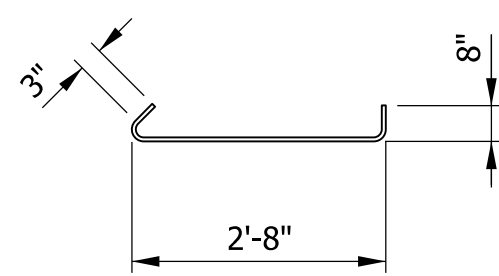
MODULE TYPE IA
SECTION

* DOWELS WILL BE DRILLED IN AFTER
SLABS ARE PLACED. CONTRACTOR CAN
MARK LOCATIONS AFTER PLACING PIER.

BILL OF MATERIALS			
MODULE IA			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	14	17'-5"	
#8	4	1'-6"	
TOTAL #8			667
601B	19	11'-10"	
TOTAL #6			338
401B	38	3'-7"	
TOTAL #4			91
TOTAL REINFORCING BARS			1096
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.9 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
DYNAMIC PILE LOAD TEST			1 EACH
TEST PILE, DYNAMIC, PRODUCTION			73 LFT
TEST PILE, DYNAMIC, RESTRIKE			1 EACH
PILE SHOE, HP 12 x 53			1 EACH



601b x 11'-10"



401b x 3'-7"

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION.
SEE PILE DRIVING TEMPLATE USP.

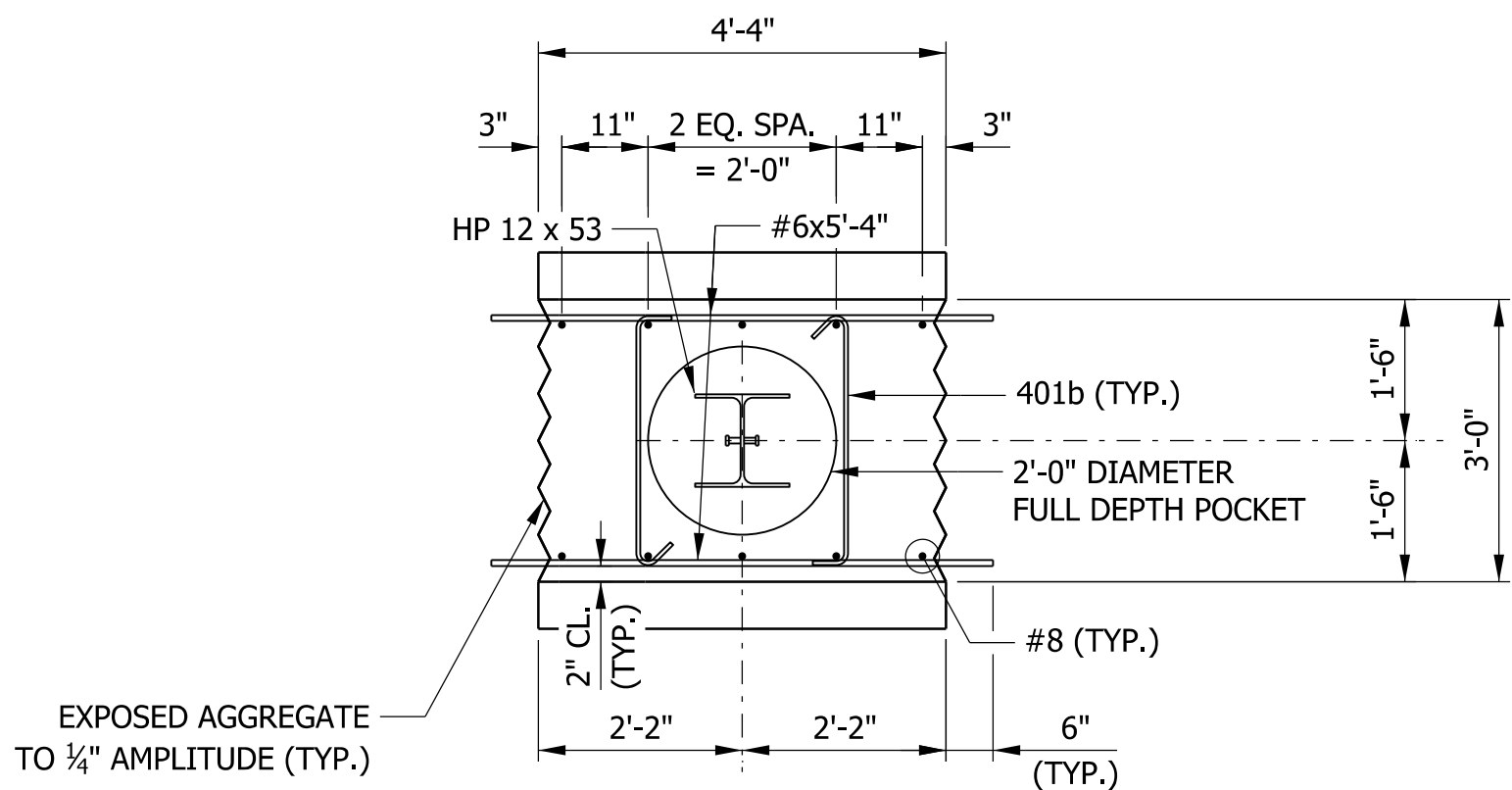
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MEW	DRAWN: CLF	
CHECKED: ELS	CHECKED: MEW	

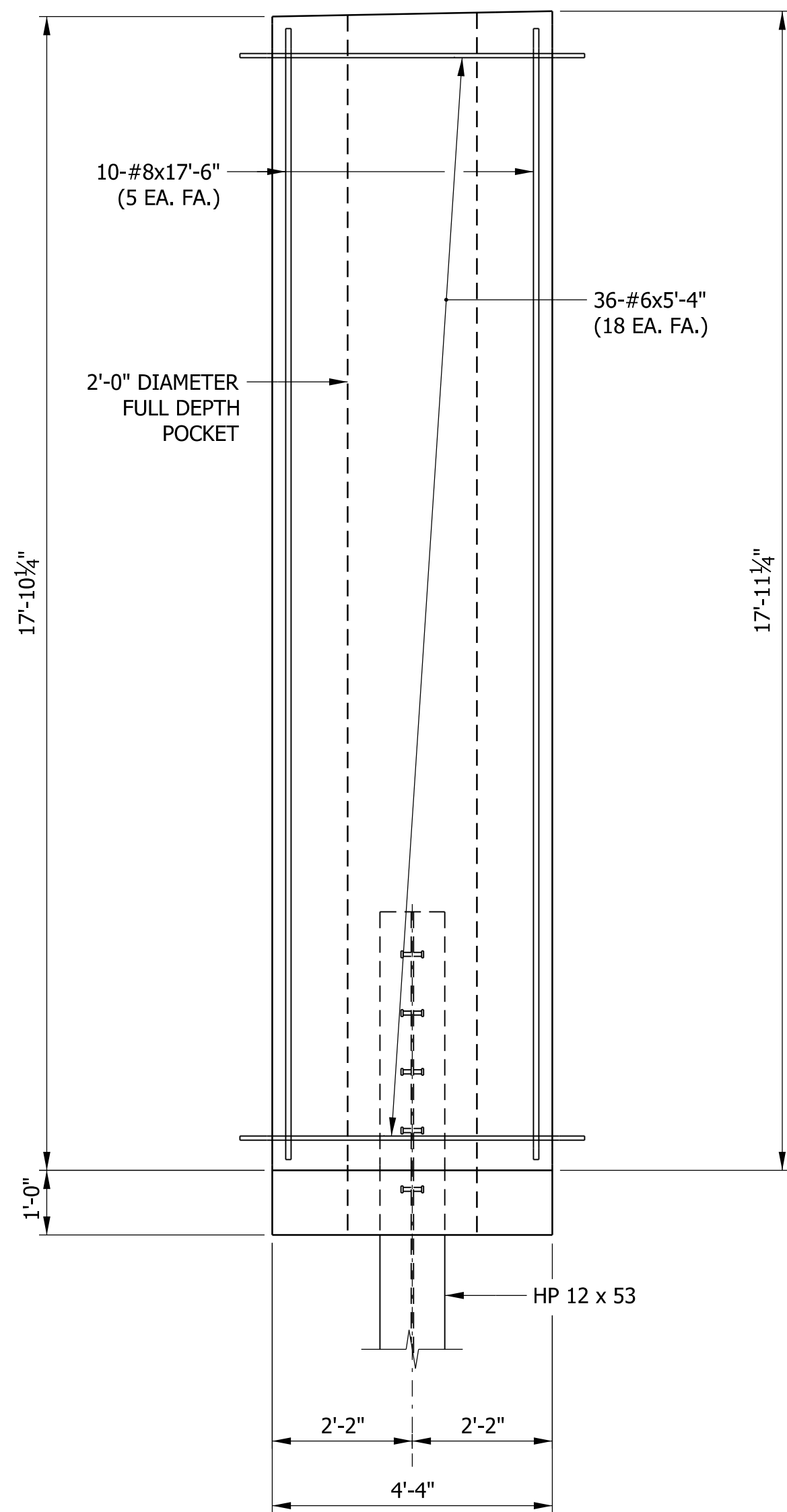
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
MODULE IA

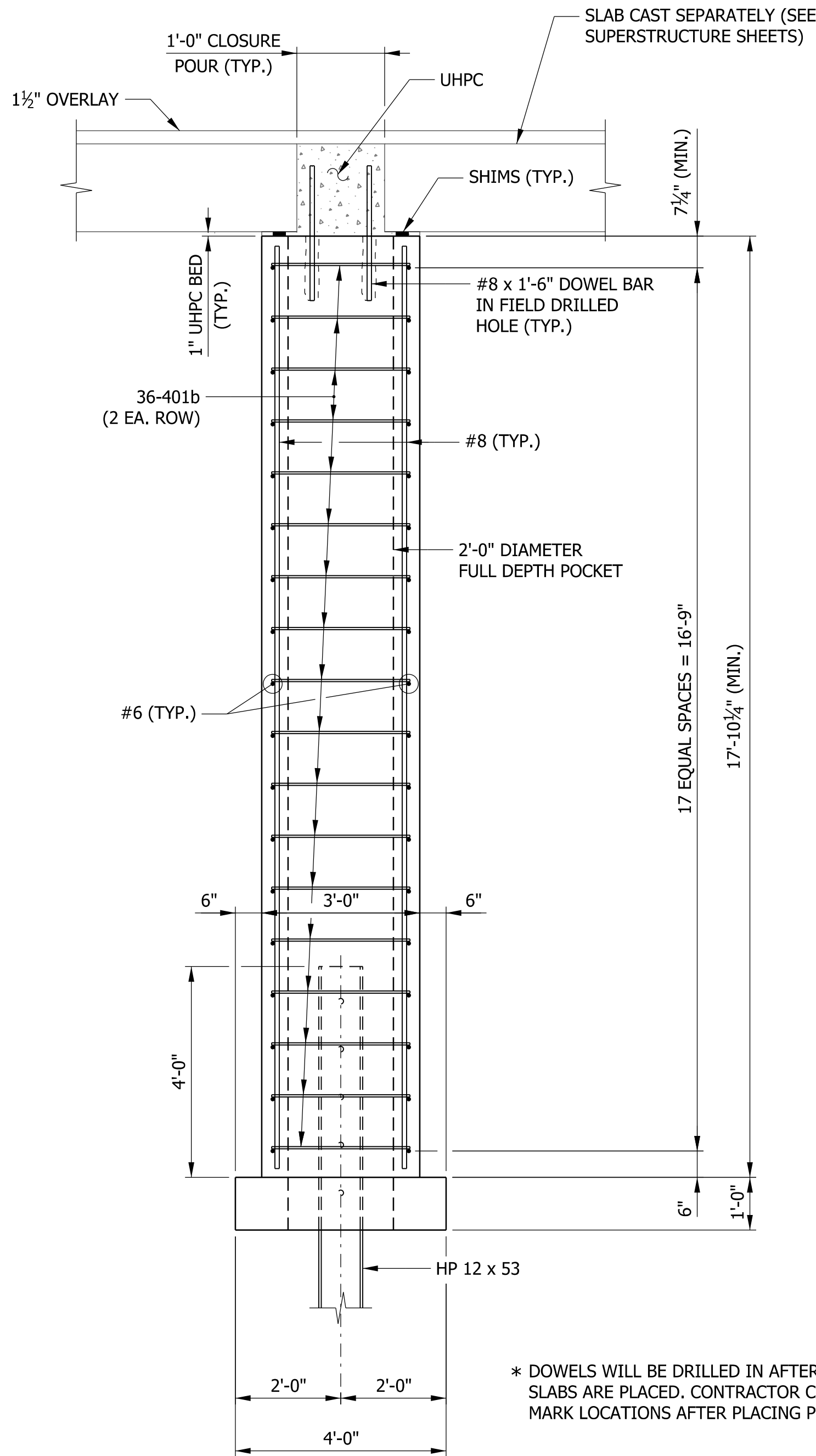
HORIZONTAL SCALE	BRIDGE FILE	
1/2" = 1'-0"	052-70-10277	
VERTICAL SCALE	DESIGNATION	
1/2" = 1'-0"	1006266	
SURVEY BOOK	SHEETS	
ELECTRONIC	29	of 64
CONTRACT	PROJECT	
B-35450	1006266	



MODULE TYPE IIA
PLAN



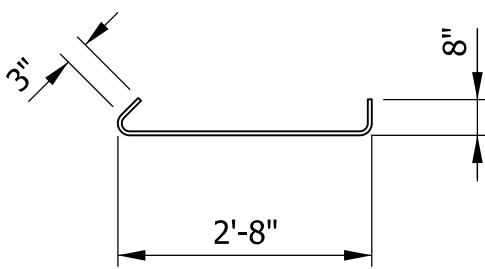
MODULE TYPE IIA
ELEVATION



MODULE TYPE IIA
SECTION

* DOWELS WILL BE DRILLED IN AFTER
SLABS ARE PLACED, CONTRACTOR CAN
MARK LOCATIONS AFTER PLACING PIER.

BILL OF MATERIALS			
MODULE IIA			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	10	17'-6"	
#8	4	1'-6"	
TOTAL #8			484
#6	36	5'-4"	
TOTAL #6			288
401B	36	3'-7"	
TOTAL #4			86
TOTAL REINFORCING BARS			858
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.6 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			1 EACH
PILE, STEEL H, HP 12 x 53 (1 @ 73 LFT)			73 LFT



401b x 3'-7"

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION.
SEE PILE DRIVING TEMPLATE USP.

DRAFT
NOT FOR CONSTRUCTION

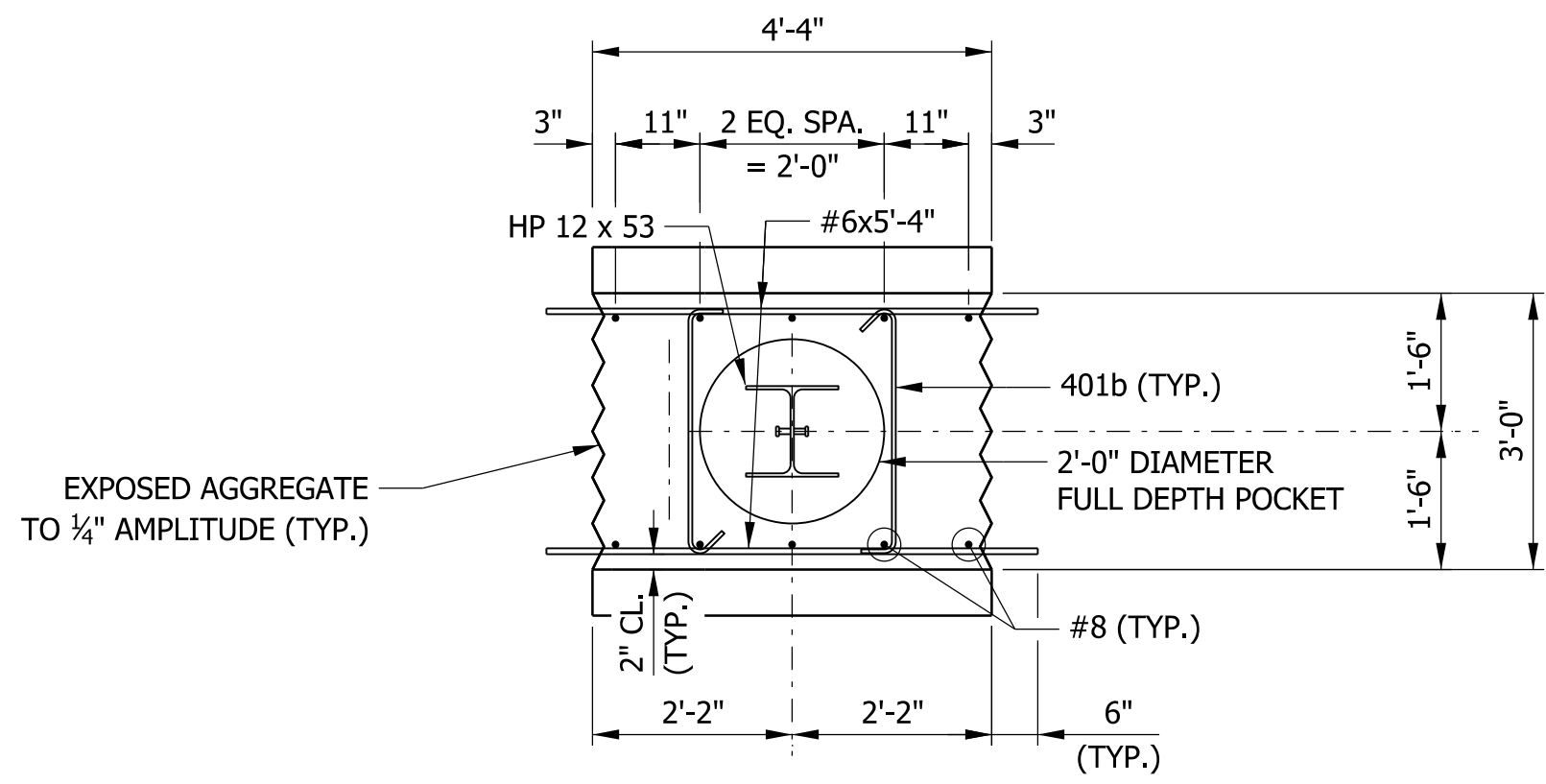
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____	MEW	DRAWN: _____	CLF
CHECKED: _____	ELS	CHECKED: _____	MEW

INDIANA
DEPARTMENT OF TRANSPORTATION

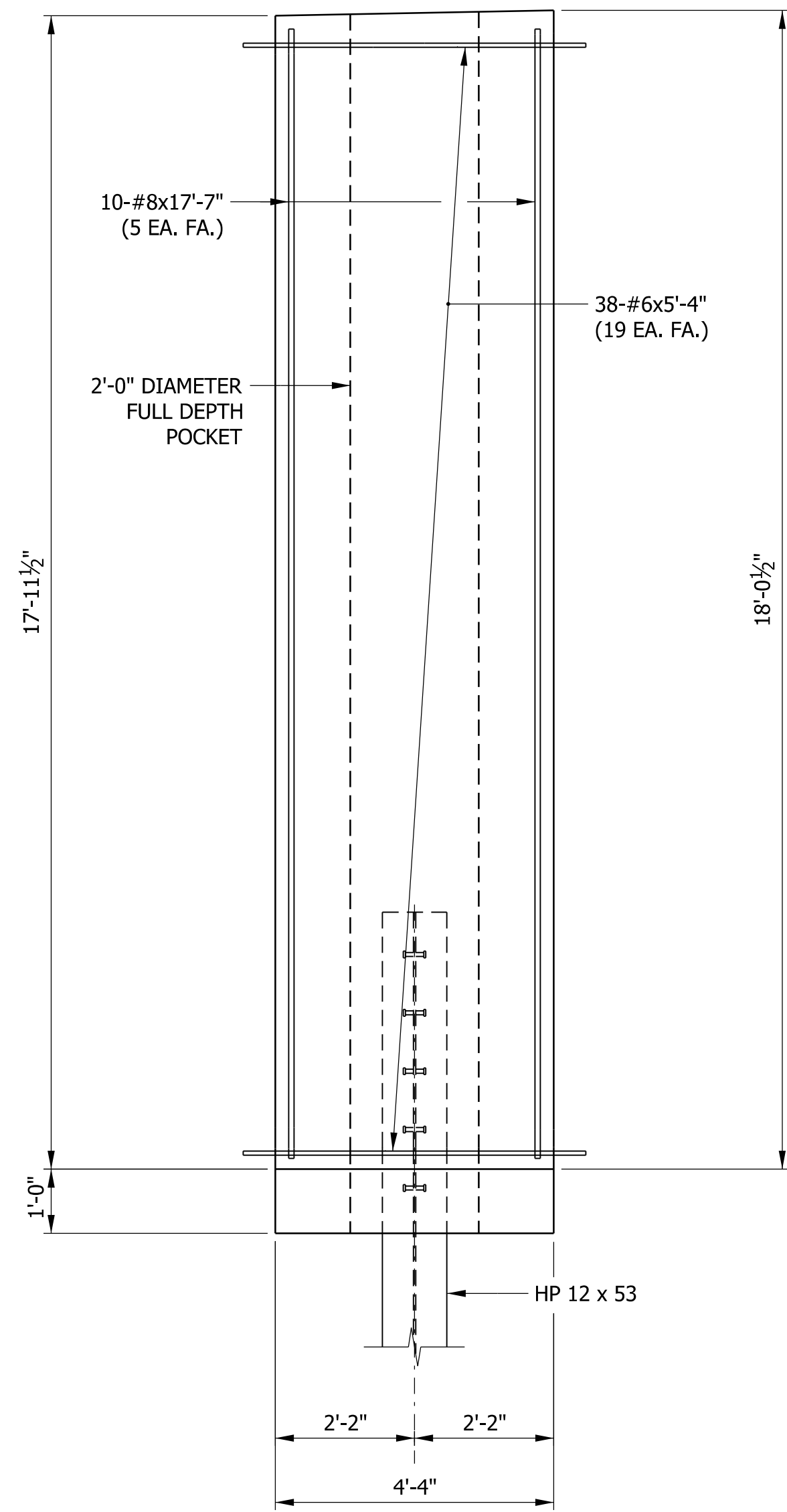
PIER DETAILS
MODULE IIA

HORIZONTAL SCALE 1/2" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 1/2" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 30 of 64	
CONTRACT B-35450		PROJECT 1006266	

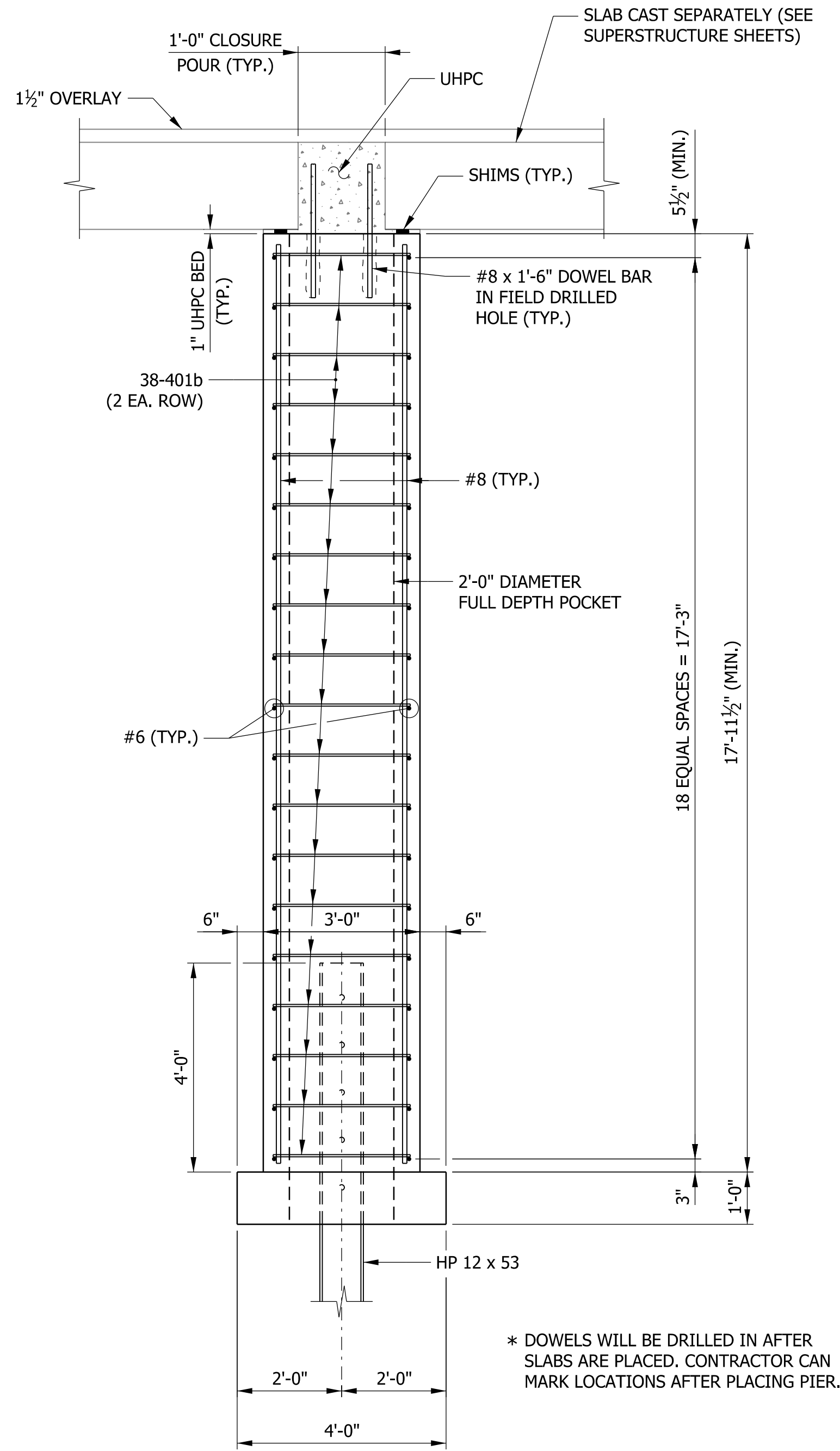
nkless
3/27/2020 8:46:19 pm
model-sheet 4-panel iib
file: c:\cadd\llo\pwn\kless\greatakes\0195487\09847-s-br-bmt01.dgn



MODULE TYPE IIB
PLAN

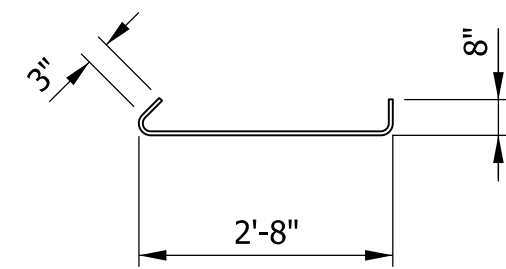


MODULE TYPE IIB
ELEVATION



MODULE TYPE IIB
SECTION

BILL OF MATERIALS			
MODULE IIB			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	10	17'-7"	
#8	4	1'-6"	
TOTAL #8			486
#6	38	5'-4"	
TOTAL #6			304
401B	38	3'-7"	
TOTAL #4			91
TOTAL REINFORCING BARS			881
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.7 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			1 EACH
PILE, STEEL H, HP 12 x 53 (1 @ 73 LFT)			73 LFT



401b x 3'-7"

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
- UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

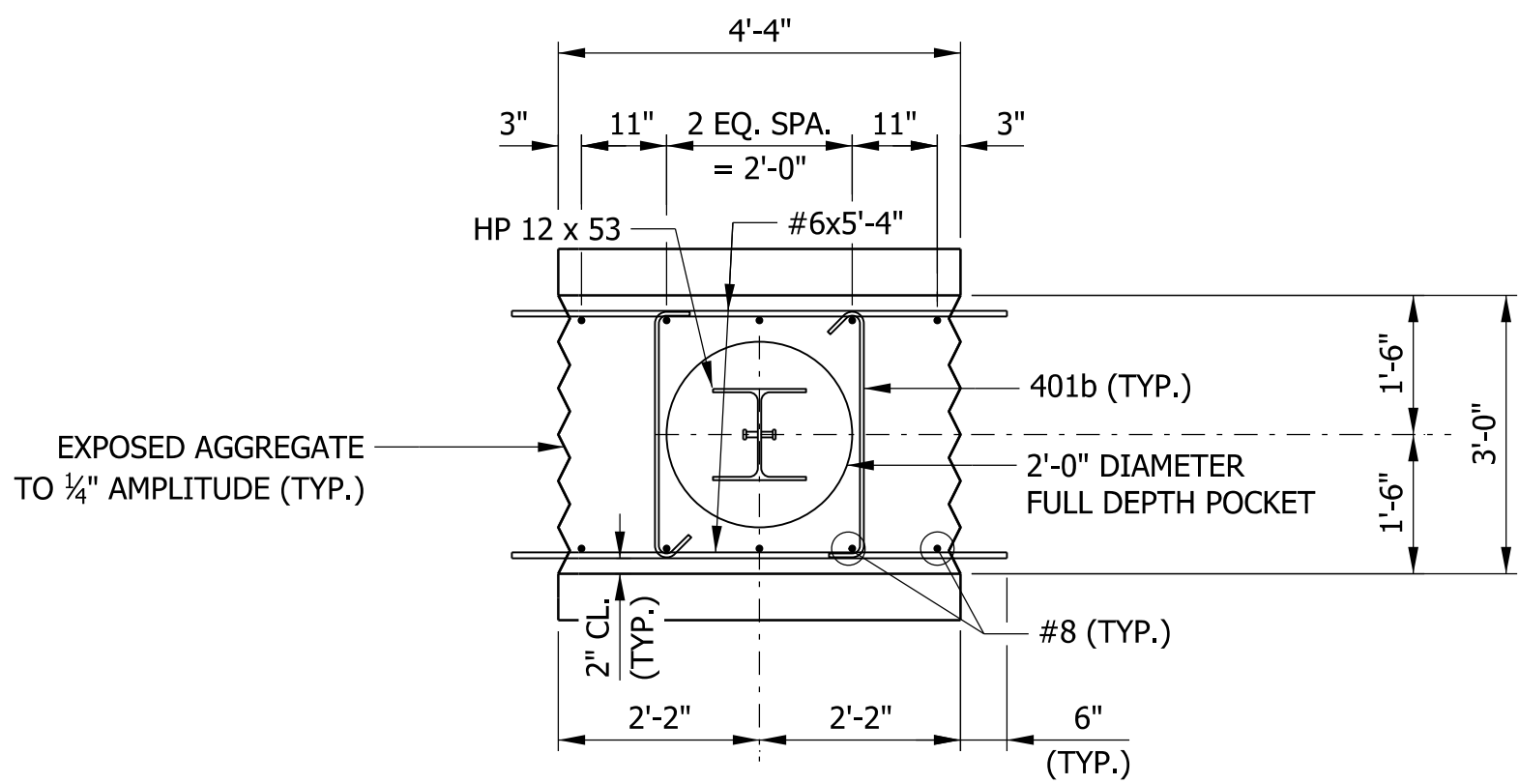
1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. SEE PILE DRIVING TEMPLATE USP.

DRAFT
NOT FOR CONSTRUCTION

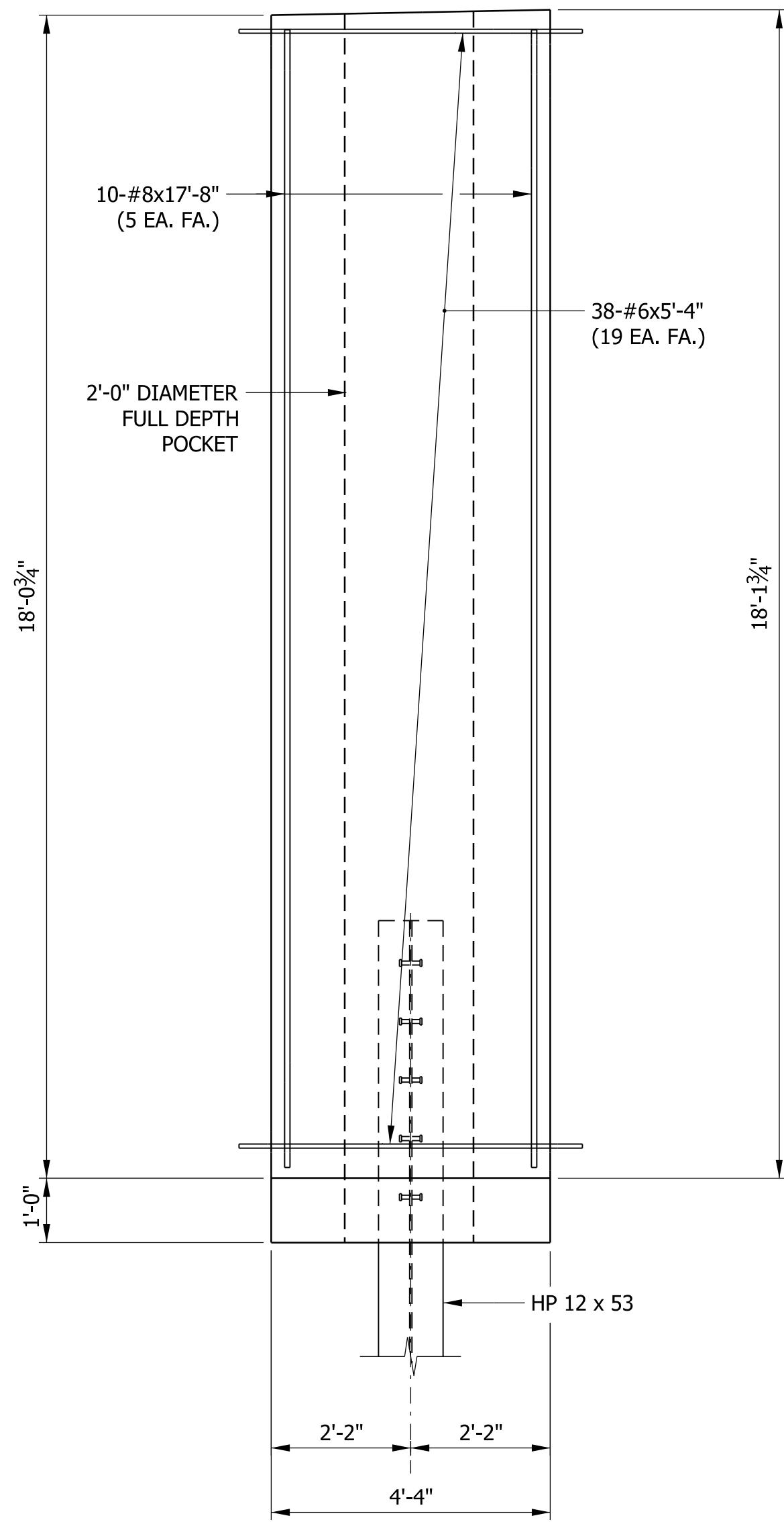
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: _____ MEW	DRAWN: _____ CLF		
CHECKED: _____ ELS	CHECKED: _____ MEW		

INDIANA DEPARTMENT OF TRANSPORTATION	
PIER DETAILS MODULE IIB	

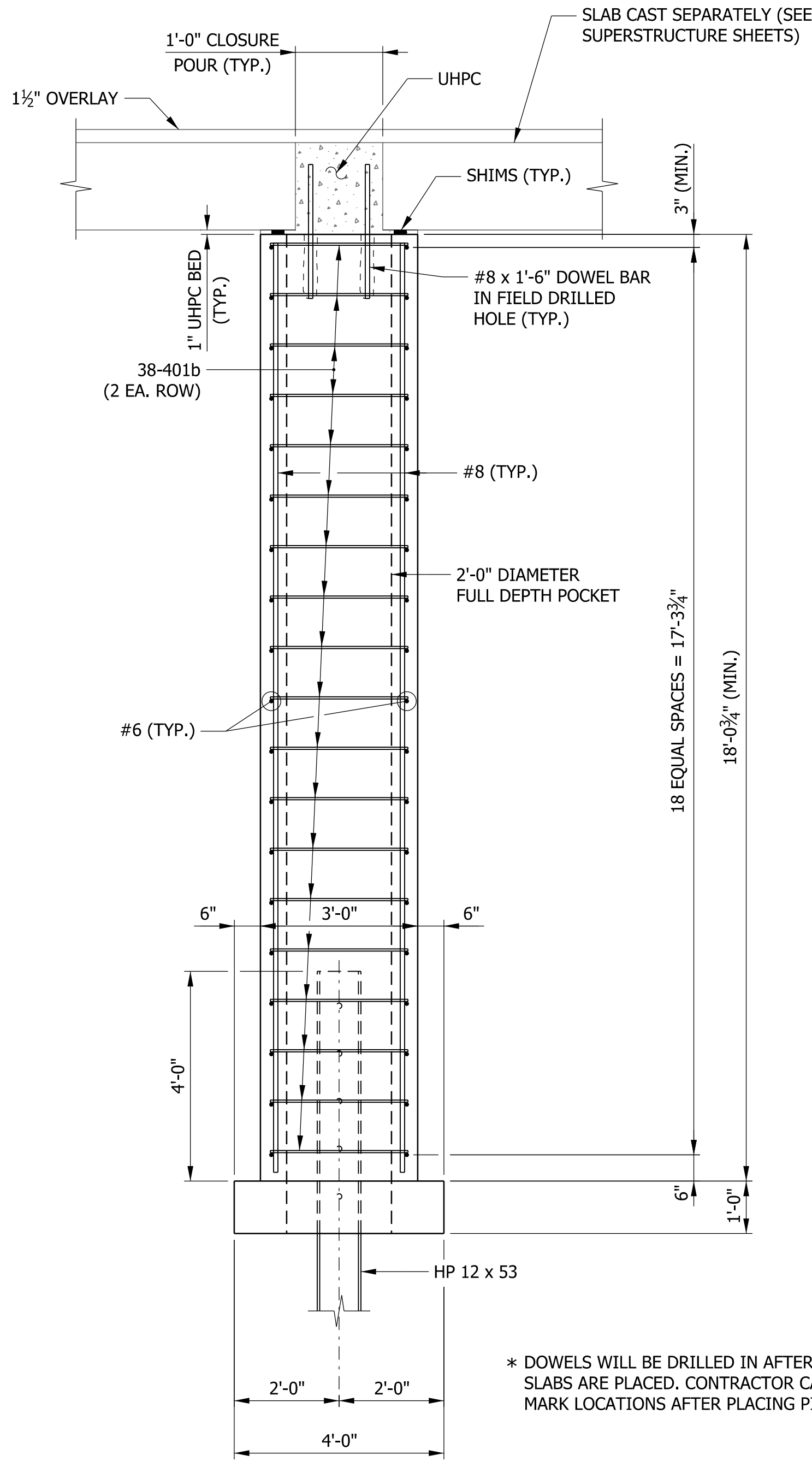
HORIZONTAL SCALE ½" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE ½" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 31 of 64	
CONTRACT B-35450		PROJECT 1006266	



MODULE TYPE IIC
PLAN



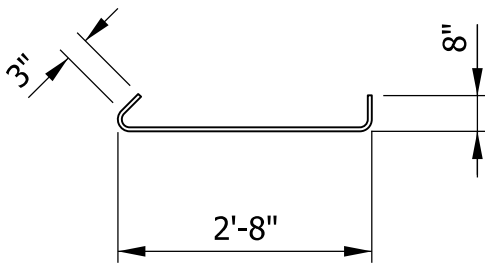
MODULE TYPE IIC
ELEVATION



MODULE TYPE IIC
SECTION

* DOWELS WILL BE DRILLED IN AFTER
SLABS ARE PLACED. CONTRACTOR CAN
MARK LOCATIONS AFTER PLACING PIER.

BILL OF MATERIALS			
MODULE IIC			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	10	17'-8"	
#8	4	1'-6"	
TOTAL #8			486
#6	38	5'-4"	
TOTAL #6			304
401B	38	3'-7"	
TOTAL #4			91
TOTAL REINFORCING BARS			881
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.7 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			1 EACH
PILE, STEEL H, HP 12 x 53 (1 @ 73 LFT)			73 LFT



401b x 3'-7"

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION.
SEE PILE DRIVING TEMPLATE USP.

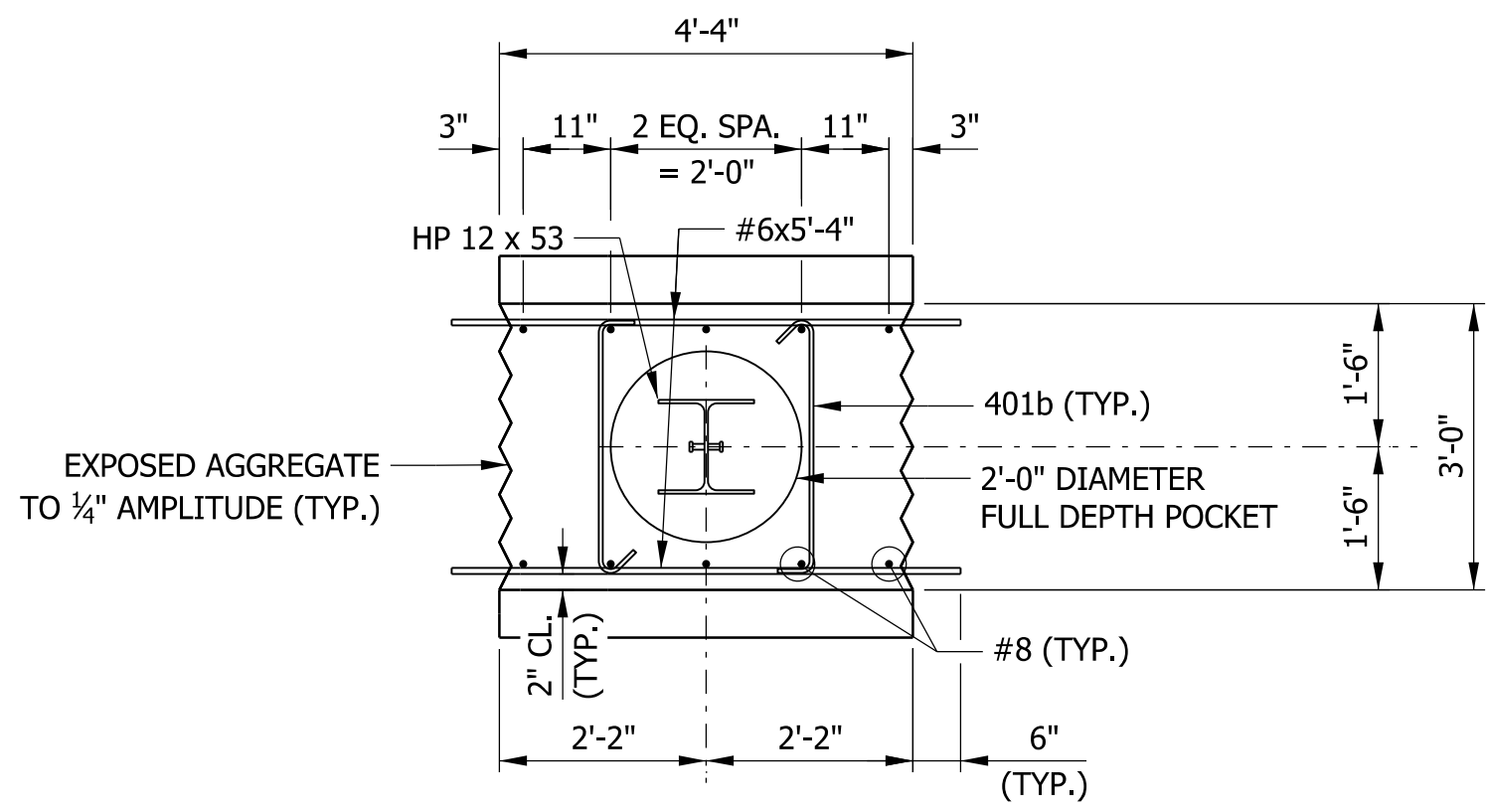
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: _____ MEW	DRAWN: _____ CLF		
CHECKED: _____ ELS	CHECKED: _____ MEW		

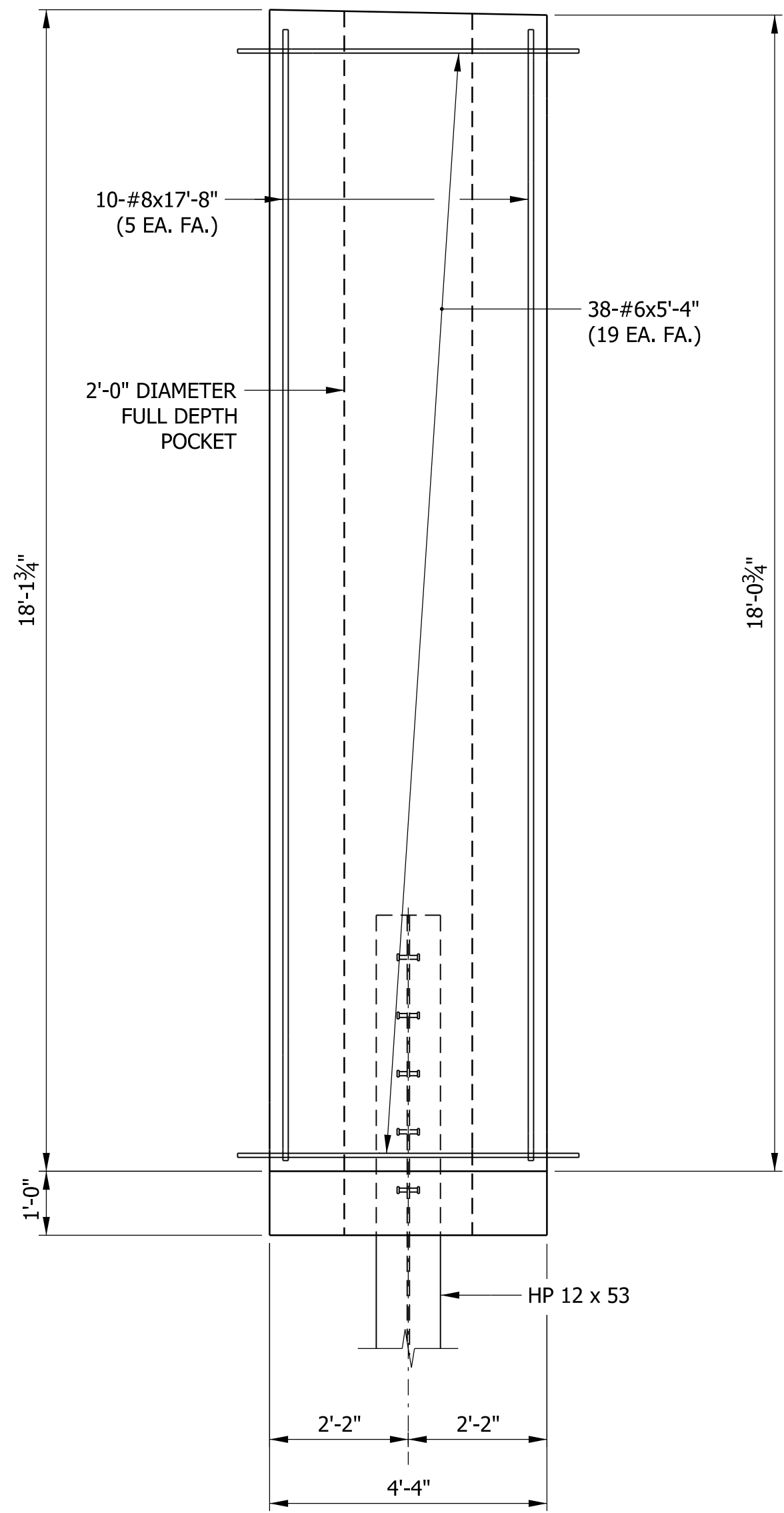
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
MODULE IIC

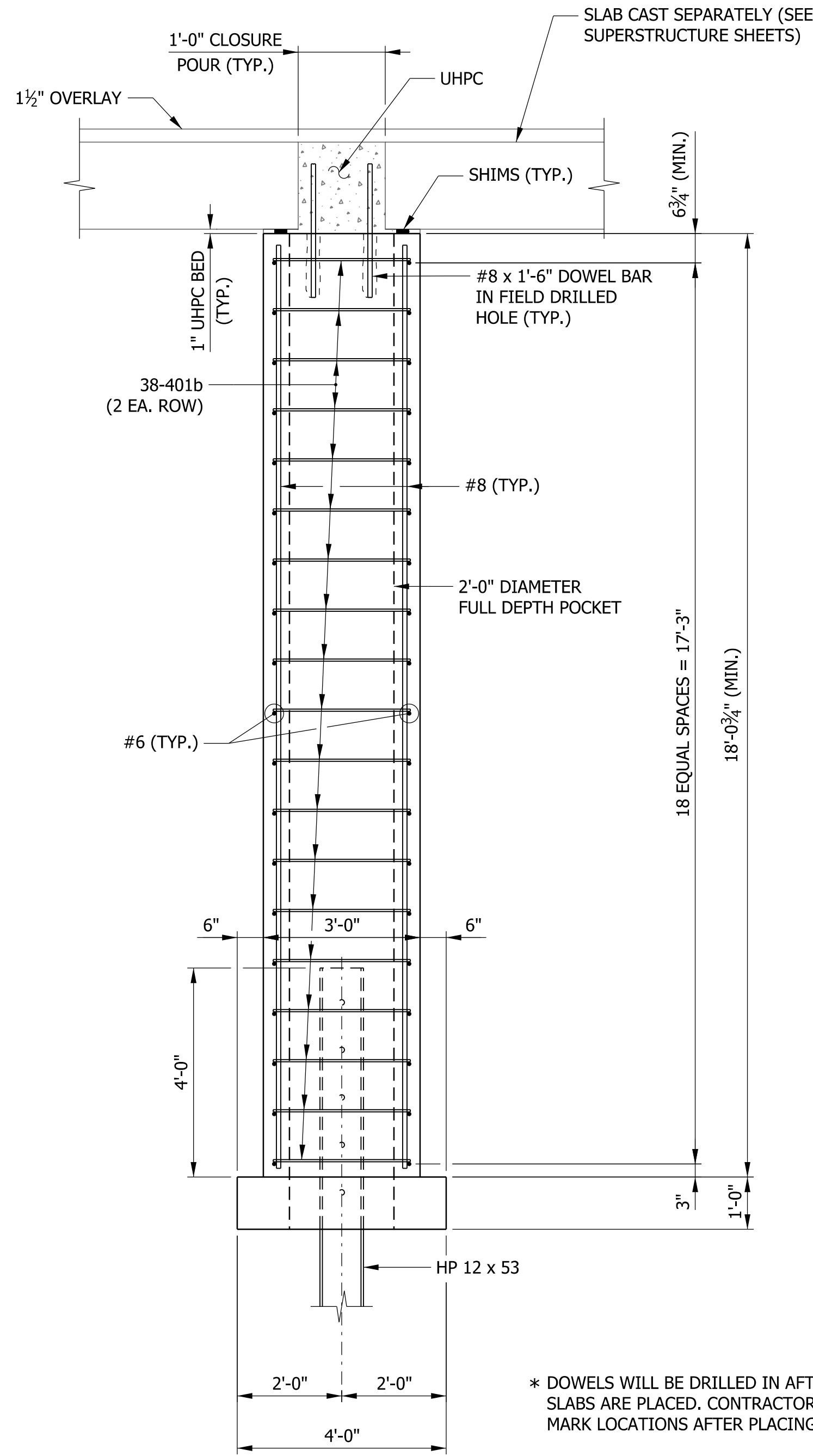
HORIZONTAL SCALE 1/2" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 1/2" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 32 of 64	
CONTRACT B-35450		PROJECT 1006266	



MODULE TYPE IID
PLAN

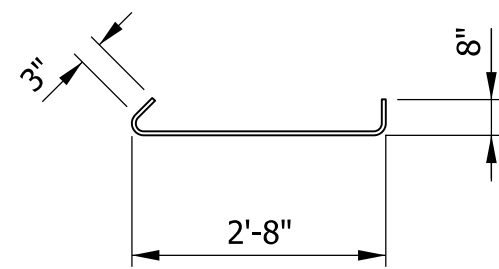


MODULE TYPE IID
ELEVATION



MODULE TYPE IID
SECTION

BILL OF MATERIALS			
MODULE IID			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	10	17'-8"	
#8	4	1'-6"	
TOTAL #8			488
#6	38	5'-4"	
TOTAL #6			304
401B	38	3'-7"	
TOTAL #4			91
TOTAL REINFORCING BARS			883
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.7 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			1 EACH
PILE, STEEL H, HP 12 x 53 (1 @ 73 LFT)			73 LFT



401b x 3'-7"

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. SEE PILE DRIVING TEMPLATE USP.

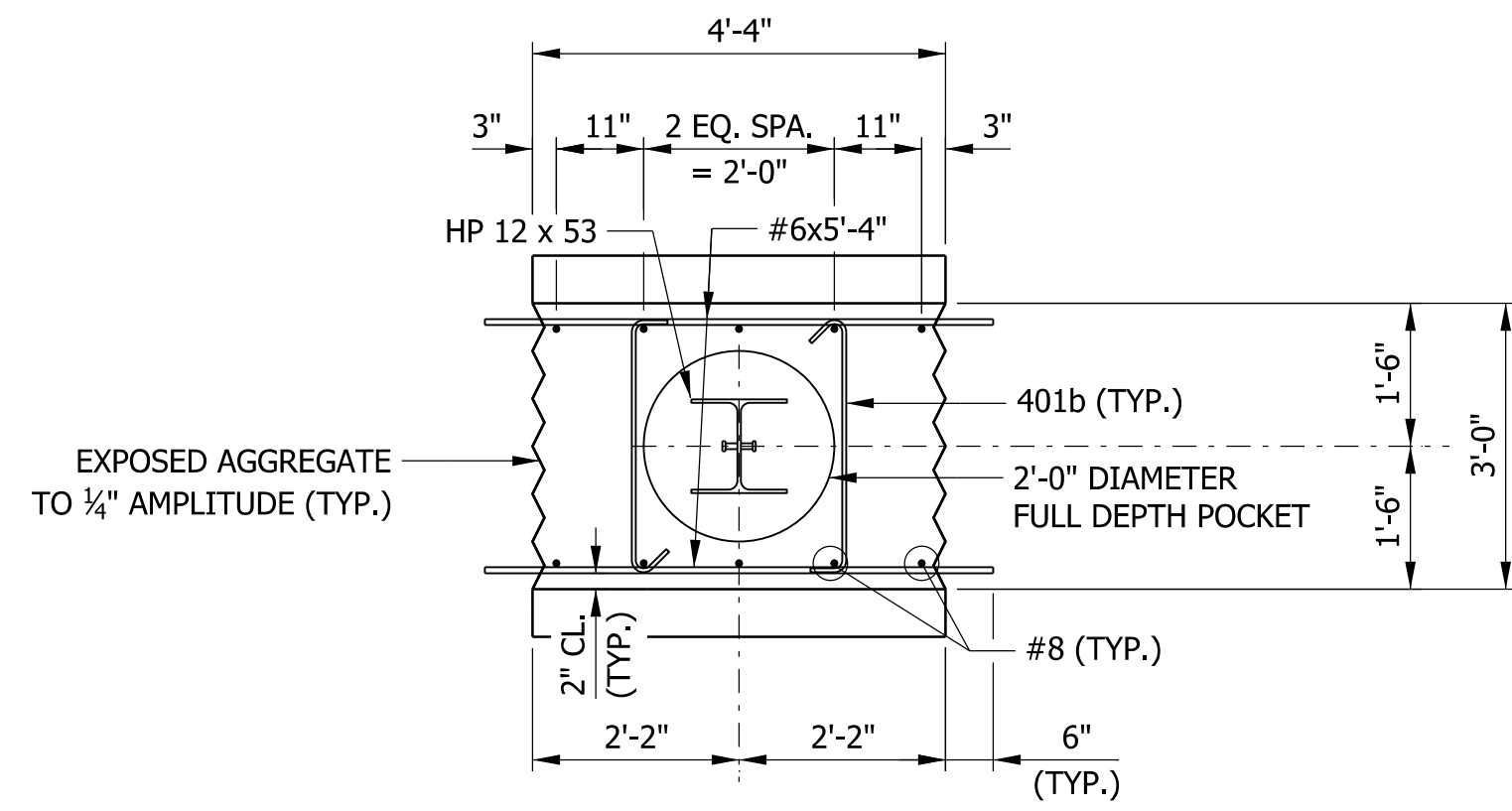
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: _____ MEW	DRAWN: _____ CLF		
CHECKED: _____ ELS	CHECKED: _____ MEW		

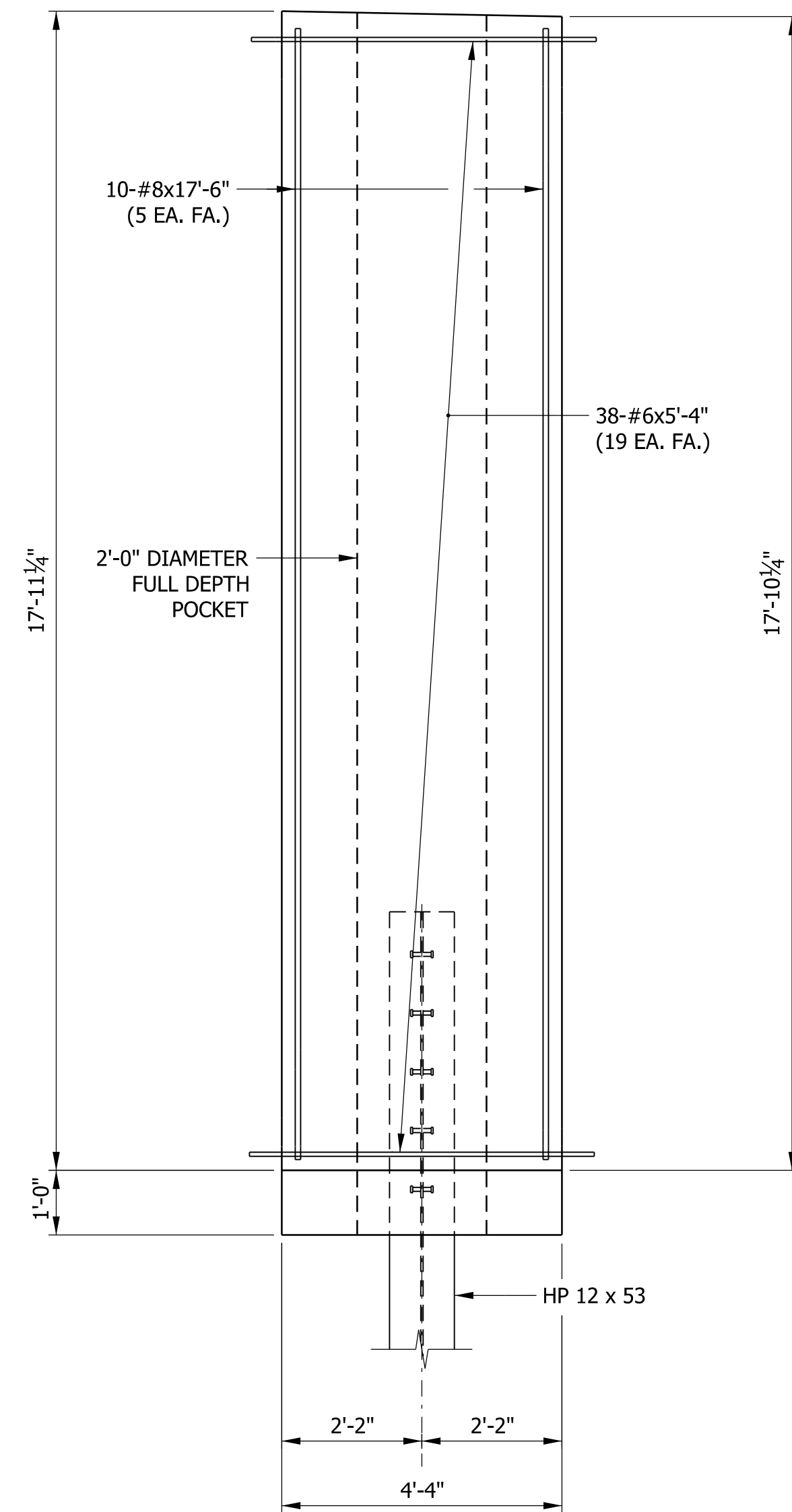
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
MODULE IID

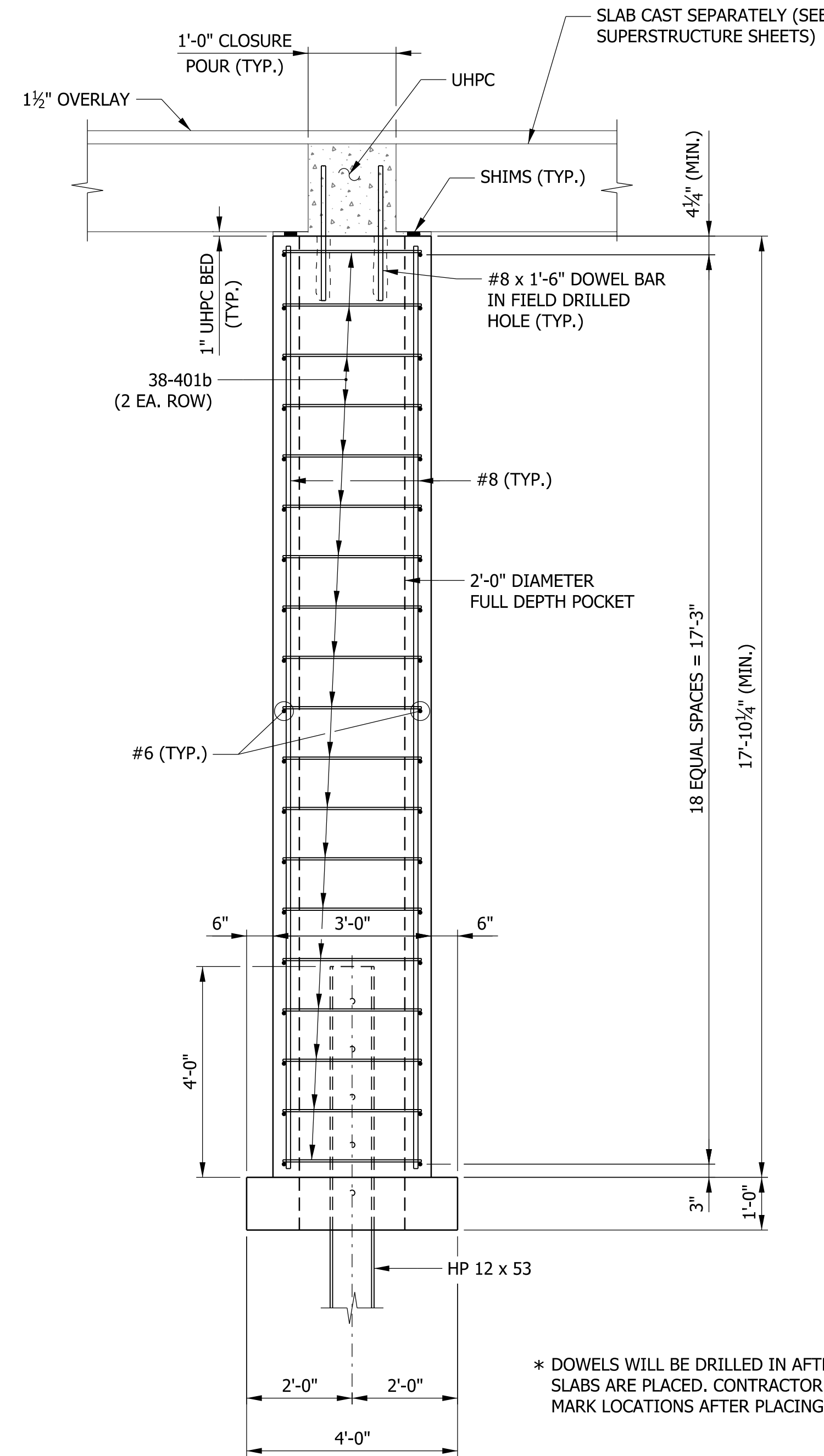
HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE 052-70-10277	
VERTICAL SCALE 1/2" = 1'-0"	DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC	33	of 64
CONTRACT B-35450	SHEETS PROJECT 1006266	



MODULE TYPE IIF
PLAN



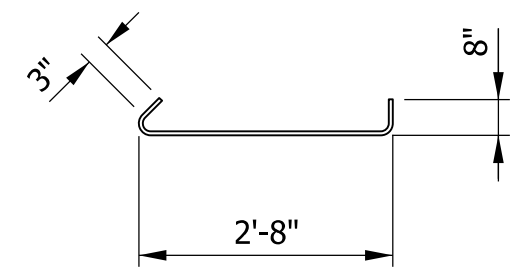
MODULE TYPE IIF
ELEVATION



MODULE TYPE IIF
SECTION

* DOWELS WILL BE DRILLED IN AFTER
SLABS ARE PLACED. CONTRACTOR CAN
MARK LOCATIONS AFTER PLACING PIER.

BILL OF MATERIALS			
MODULE IIF			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	10	17'-6"	
#8	4	1'-6"	
TOTAL #8			484
#6	38	5'-4"	
TOTAL #6			304
401B	38	3'-7"	
TOTAL #4			91
TOTAL REINFORCING BARS			879
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.6 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			1 EACH
PILE, STEEL H, HP 12 x 53 (1 @ 73 LFT)			73 LFT



401b x 3'-7"

LEGEND

- S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
- UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

1. PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. SEE PILE DRIVING TEMPLATE USP.

DRAFT
NOT FOR CONSTRUCTION

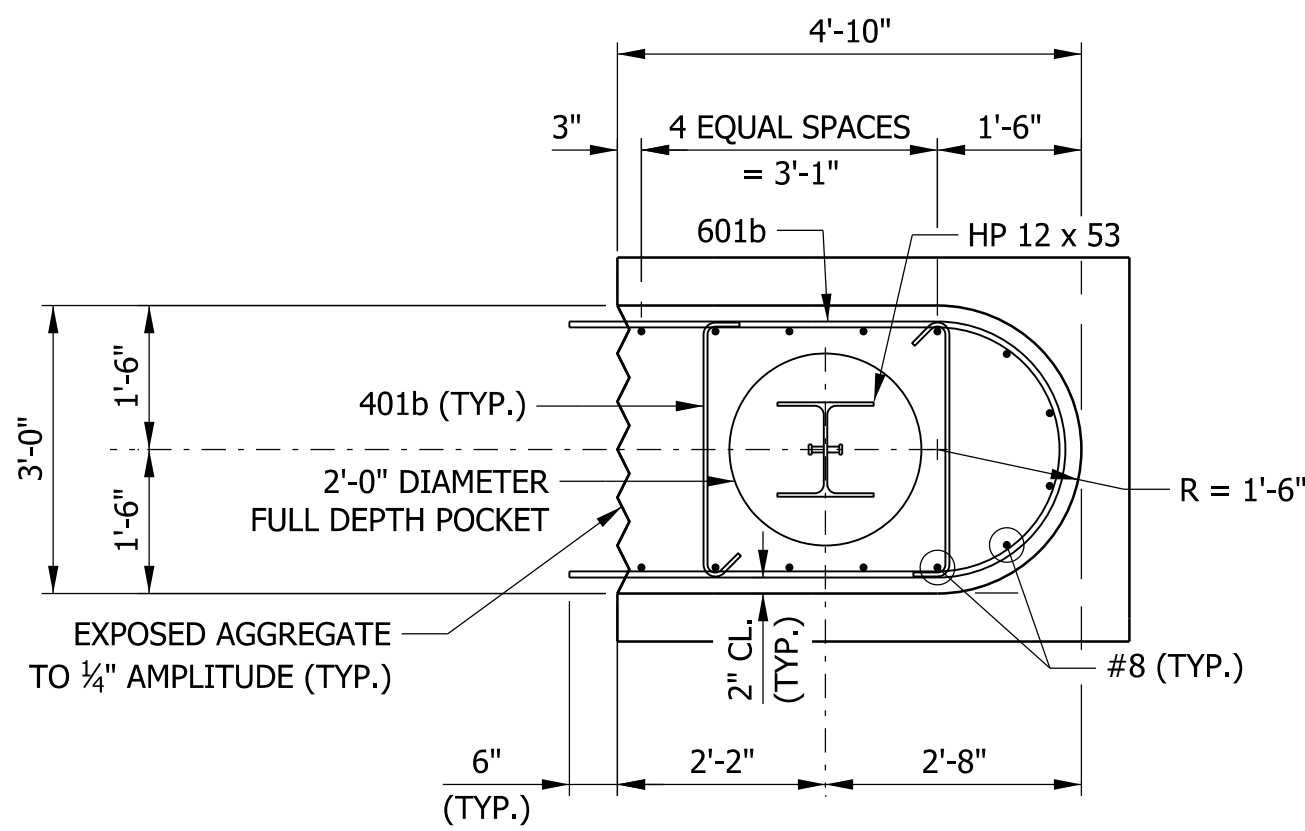
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____ MEW		DRAWN: _____ CLF			
CHECKED: _____ ELS		CHECKED: _____ MEW			

INDIANA
DEPARTMENT OF TRANSPORTATION

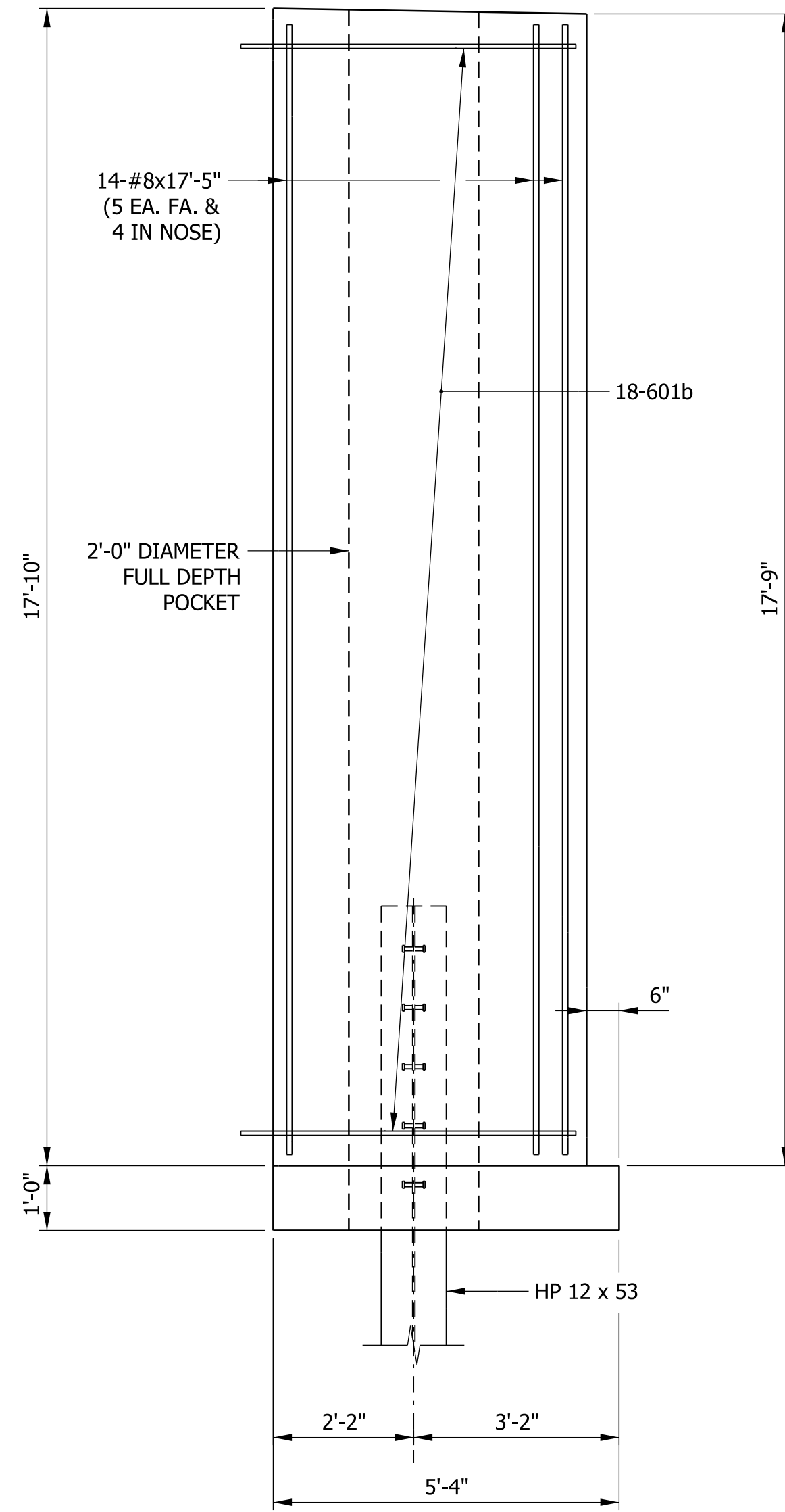
PIER DETAILS
MODULE IIF

HORIZONTAL SCALE		BRIDGE FILE	
1/2" = 1'-0"		052-70-10277	
VERTICAL SCALE		DESIGNATION	
1/2" = 1'-0"		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		35	of 64
CONTRACT		PROJECT	
B-35450		1006266	

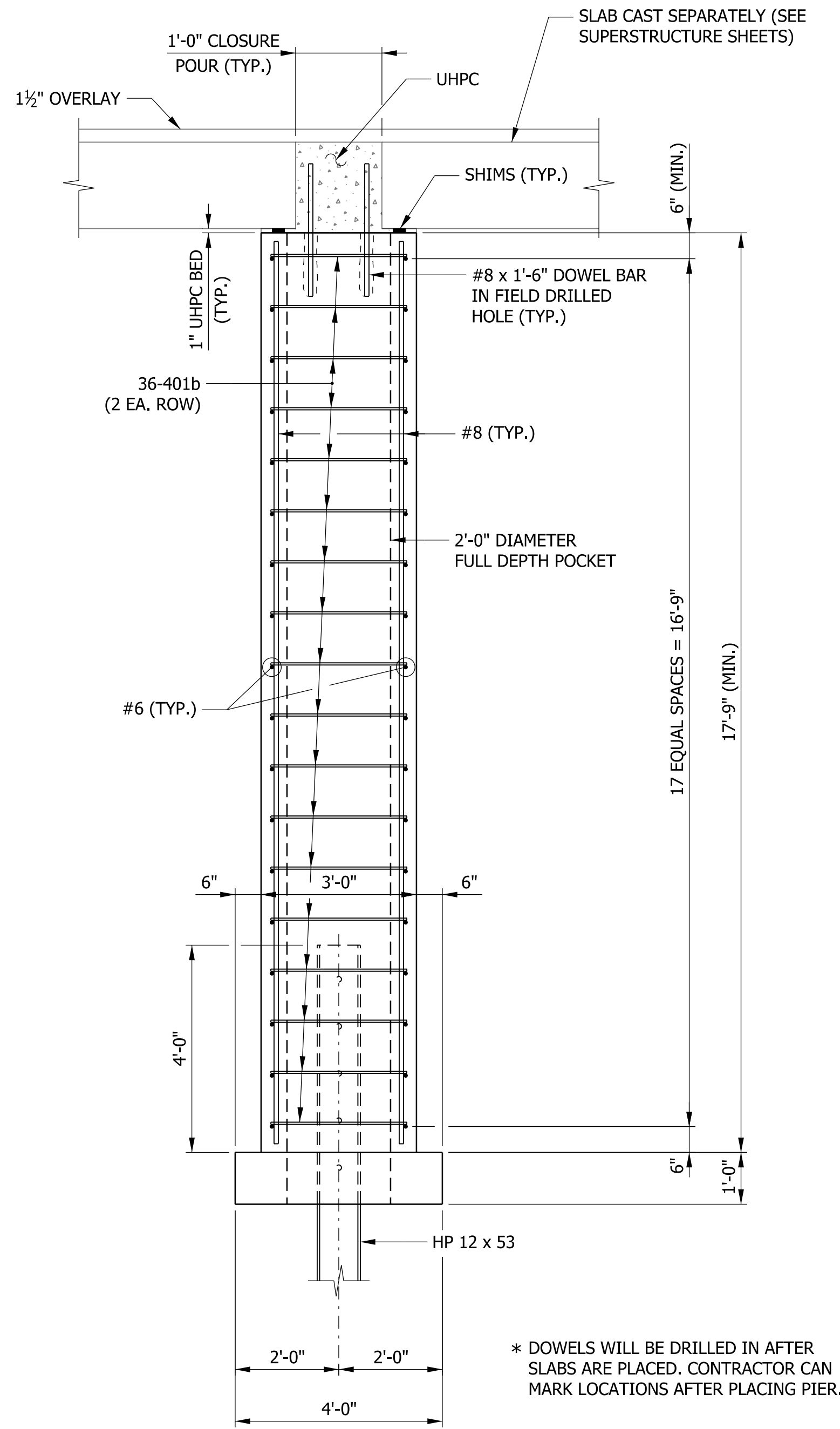
nkless
3/27/2020 8:46:19 pm
model-sheet 9-panel ib
file: c:\cadd\llo\pwn\kless\greatakes\00195487\09847-s-br-bmt01.dgn



MODULE TYPE IB
PLAN



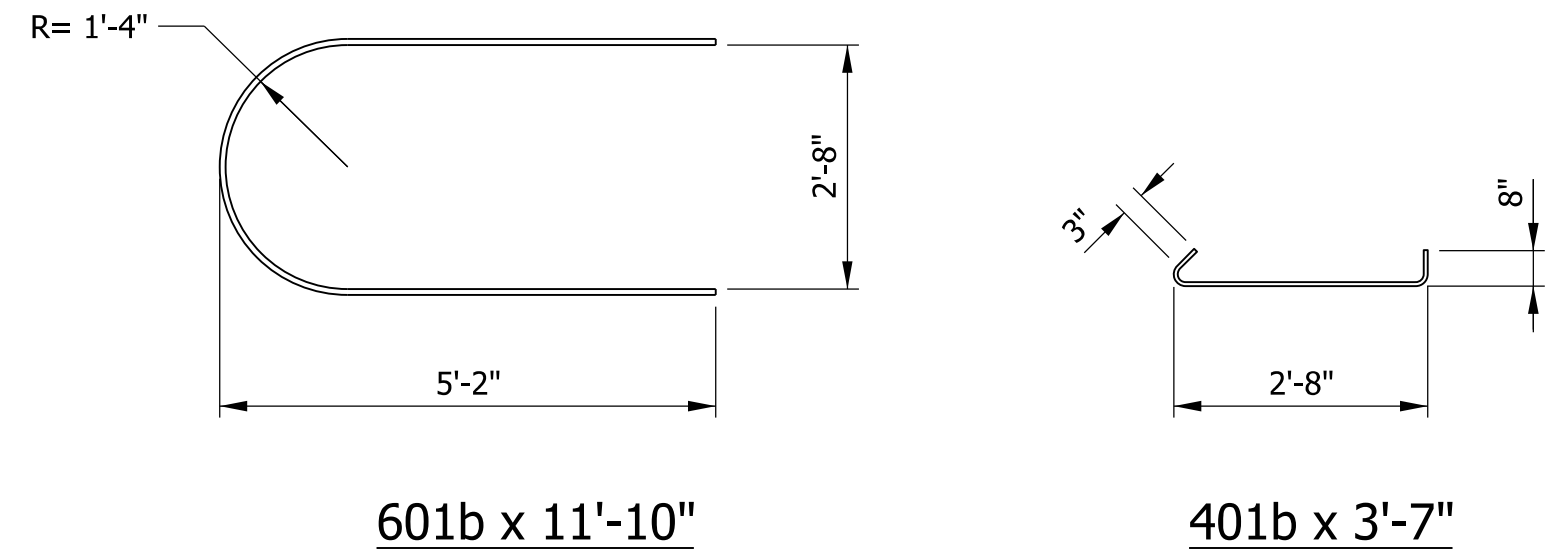
MODULE TYPE IB
ELEVATION



MODULE TYPE IB
SECTION

* DOWELS WILL BE DRILLED IN AFTER
SLABS ARE PLACED. CONTRACTOR CAN
MARK LOCATIONS AFTER PLACING PIER.

BILL OF MATERIALS			
MODULE IB			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH PIER, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	14	17'-5"	
#8	4	1'-6"	
TOTAL #8			667
601B	18	11'-10"	
TOTAL #6			320
401B	36	3'-7"	
TOTAL #4			86
TOTAL REINFORCING BARS			1073
CONCRETE			
CONCRETE, A, SUBSTRUCTURE, PRECAST			6.9 CYS
CONCRETE, B, FOOTINGS, PRECAST			0.7 CYS
SELF-CONSOLIDATING CONCRETE			2.1 CYS
MISCELLANEOUS			
PILE SHOE, HP 12 x 53			1 EACH
PILE, STEEL H, HP 12 x 53 (1 @ 73 LFT)			73 LFT



LEGEND

S.C.C. DENOTES SELF-CONSOLIDATING CONCRETE
UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE

NOTES

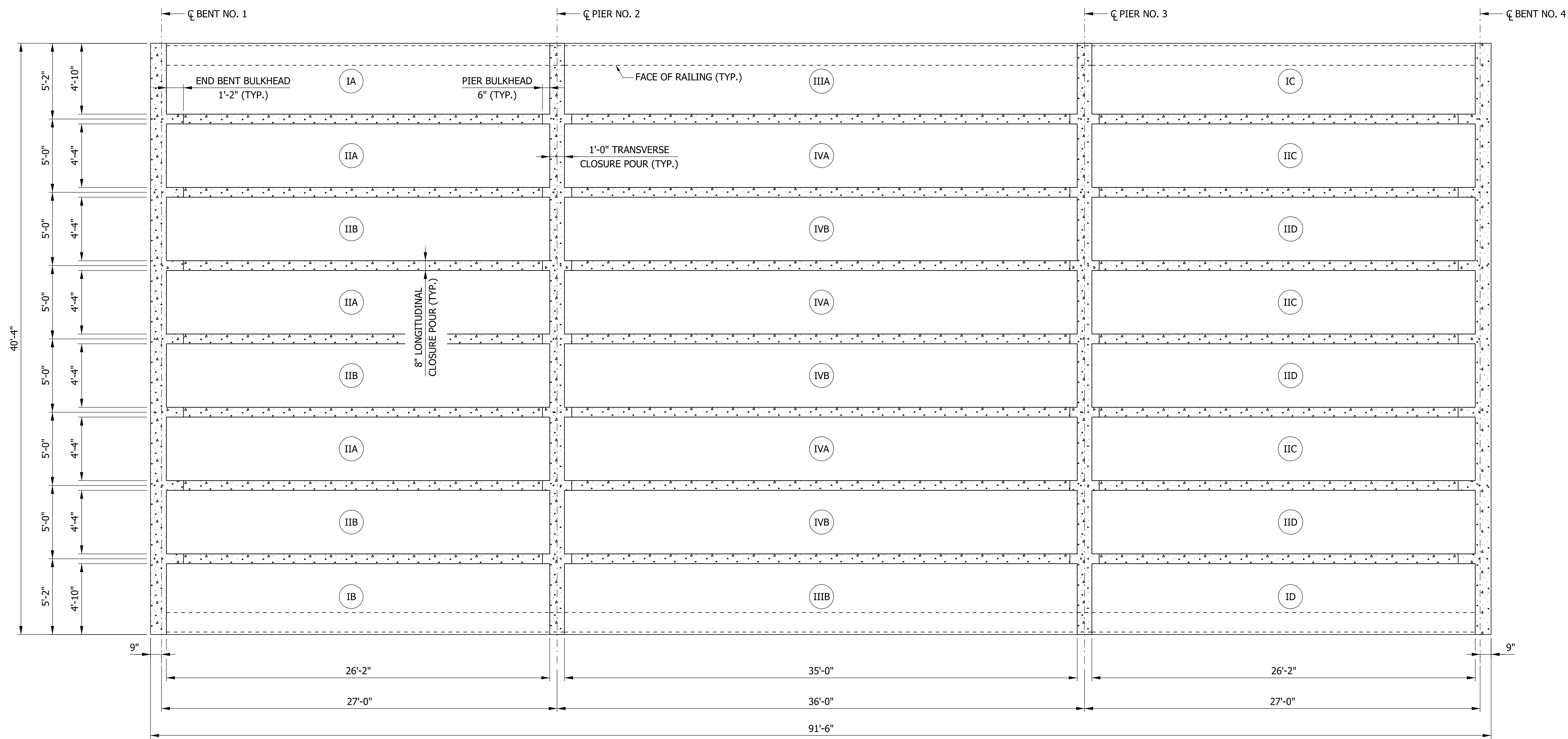
- PILES SHOULD BE DRIVEN WITHIN 3 INCHES OF THEIR DESIGN LOCATION. SEE PILE DRIVING TEMPLATE USP.

DRAFT
NOT FOR CONSTRUCTION

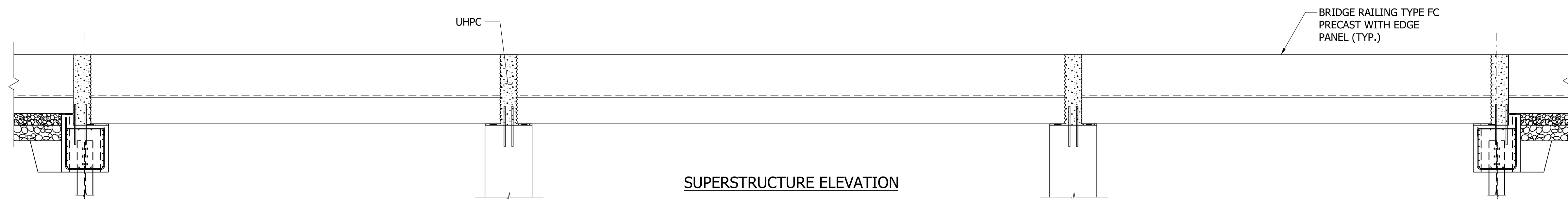
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MEW	DRAWN: CLF	
CHECKED: ELS	CHECKED: MEW	

INDIANA DEPARTMENT OF TRANSPORTATION
PIER DETAILS MODULE IB

HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE 052-70-10277
VERTICAL SCALE 1/2" = 1'-0"	DESIGNATION 1006266
SURVEY BOOK ELECTRONIC	SHEETS 36 of 64
CONTRACT B-35450	PROJECT 1006266



SUPERSTRUCTURE PLAN VIEW



SUPERSTRUCTURE ELEVATION

LEGEND

- I DENOTES MODULE TYPE I. SEE SHEETS 39-42 FOR DETAILS.
- II DENOTES MODULE TYPE II. SEE SHEETS 43-46 FOR DETAILS.
- III DENOTES MODULE TYPE III. SEE SHEETS 47-48 FOR DETAILS.
- IV DENOTES MODULE TYPE IV. SEE SHEETS 49-50 FOR DETAILS.

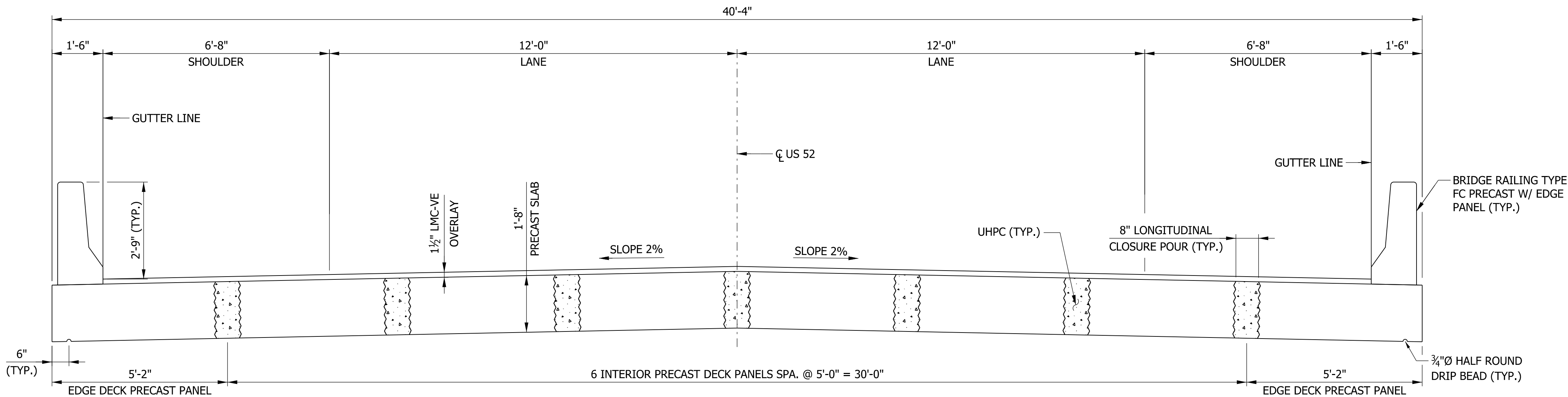
c:\p1\3\27\2020 10:16:52 am
model-Sheet1
file: c:\cadd\l\p\inkless\greatakes\0195487\09847-s-br-sb01.dgn

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ ALM	DRAWN: _____ MR	
CHECKED: _____ MEW	CHECKED: _____ ALM	

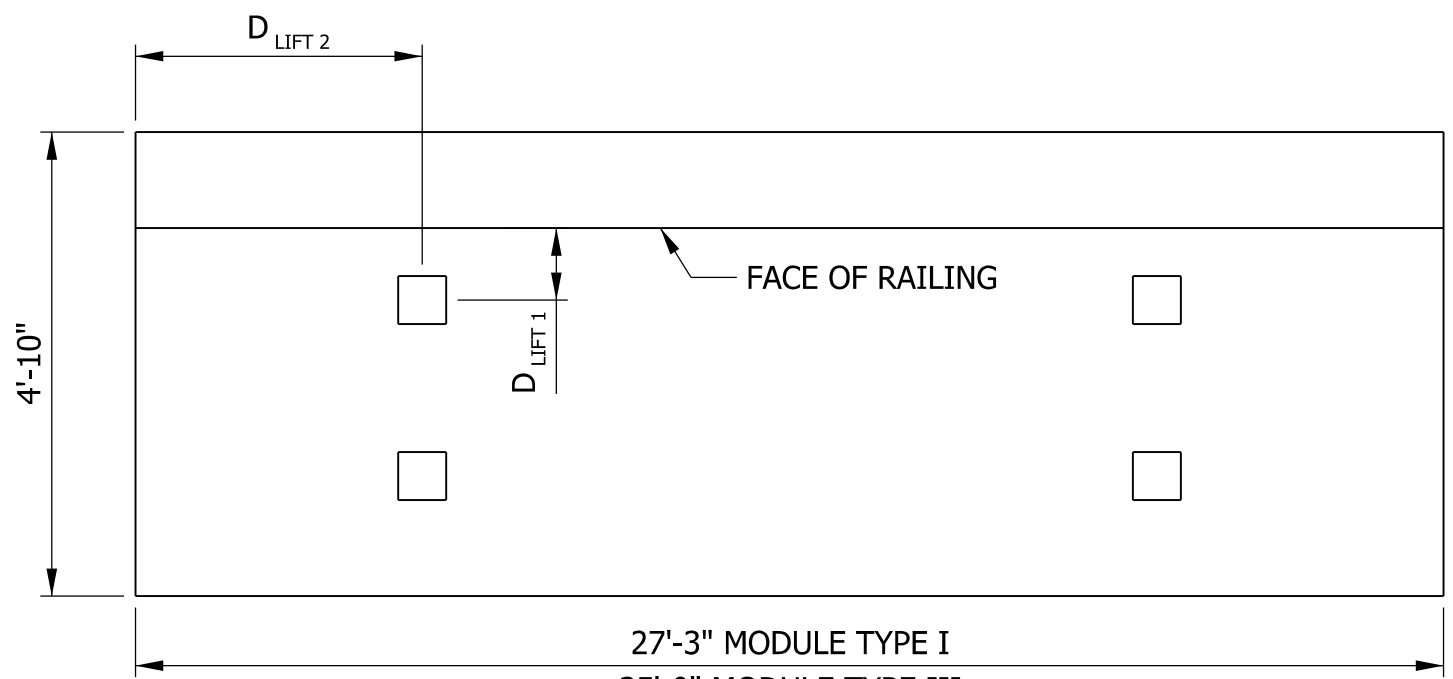
INDIANA DEPARTMENT OF TRANSPORTATION	
SUPERSTRUCTURE DETAILS	

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 052-70-10277	
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC	37	of 64
CONTRACT B-35450	SHEETS PROJECT 1006266	



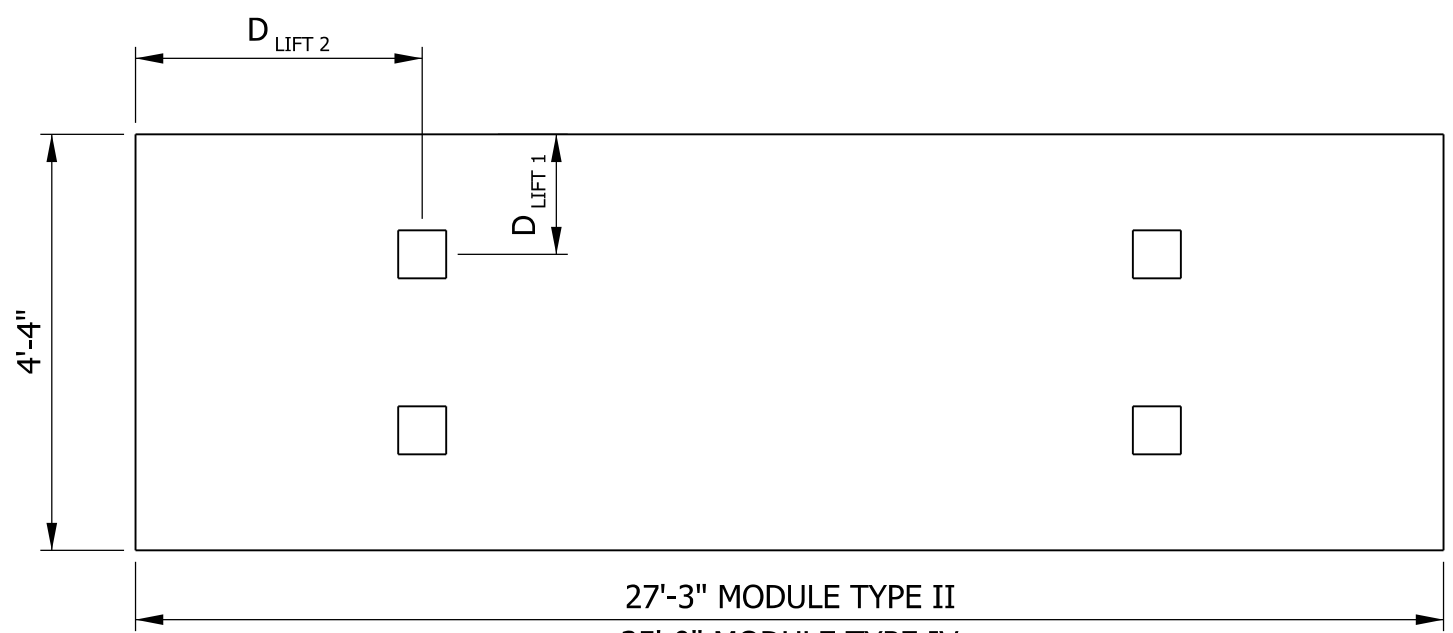
TYPICAL SLAB SECTION

SCALE: 1/2" = 1'-0"



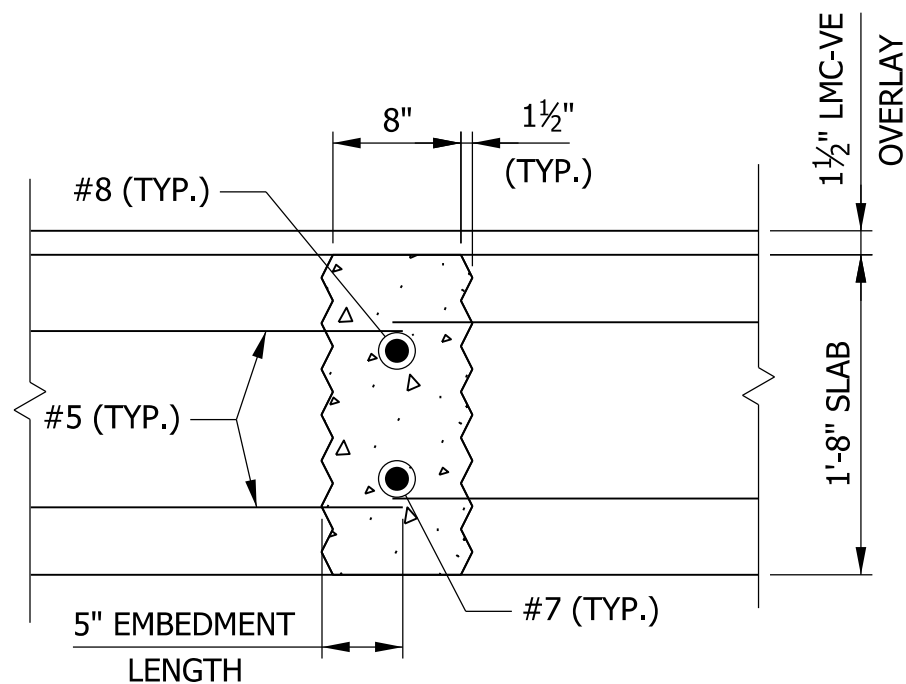
MODULE PICK POINTS (MODULE TYPES I AND III)

SCALE: N.T.S.



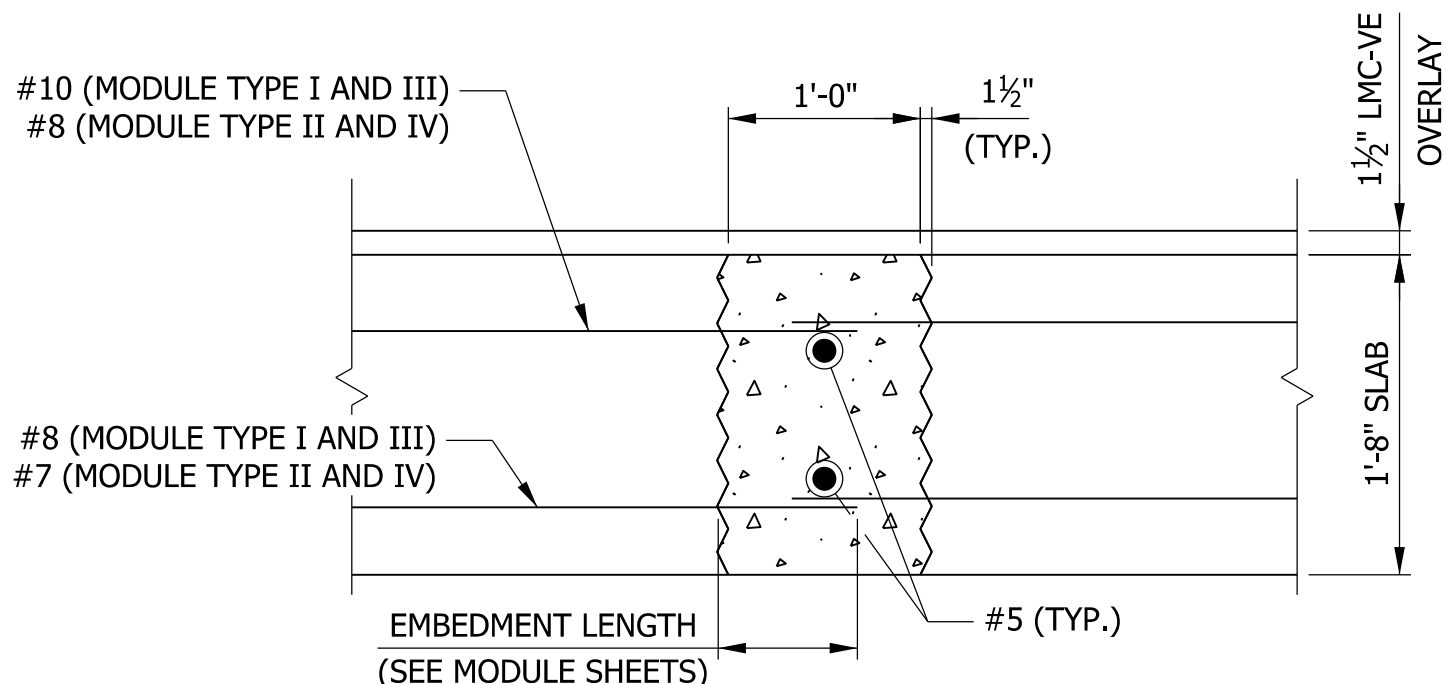
MODULE PICK POINTS (MODULE TYPES II AND IV)

SCALE: N.T.S.



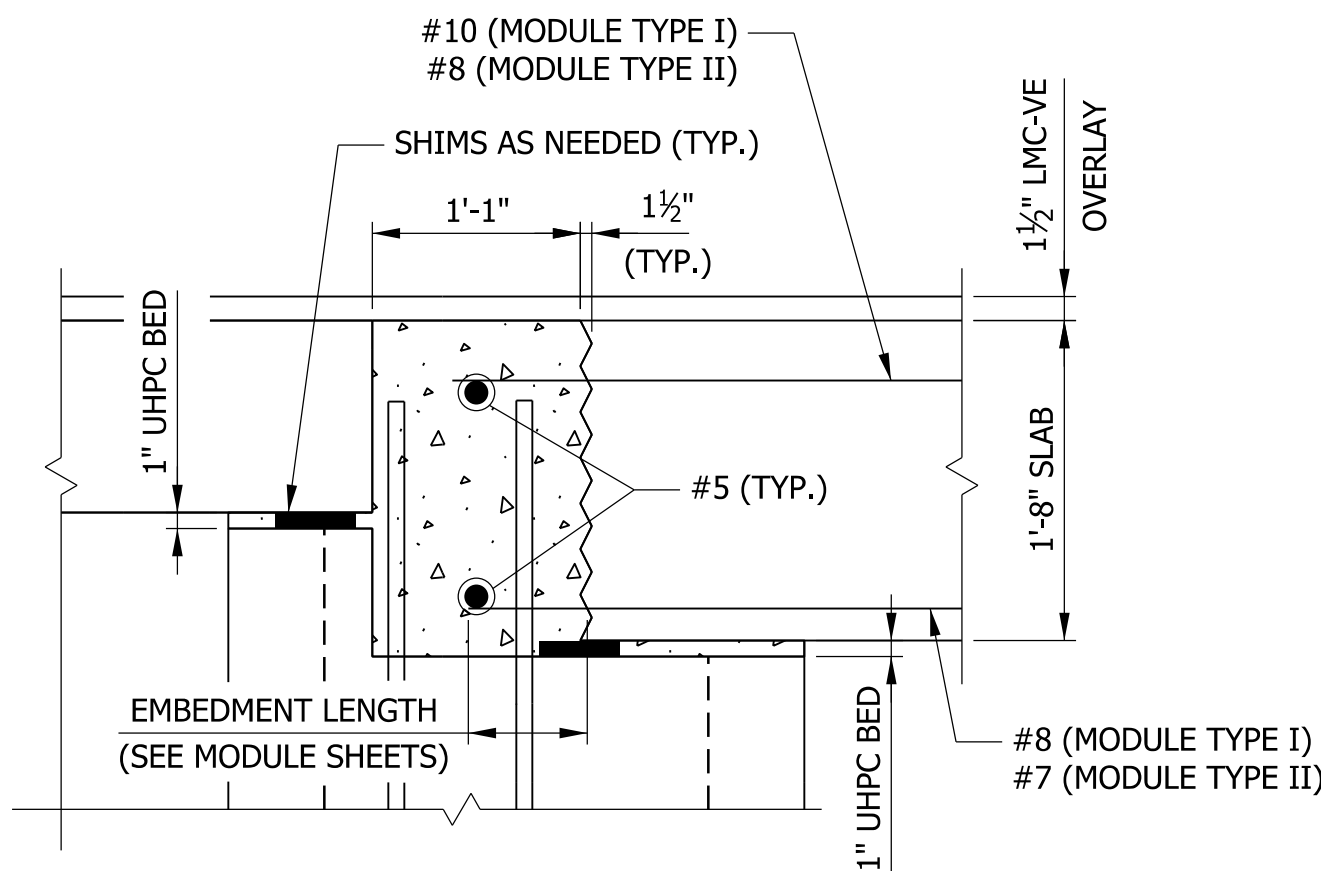
LONGITUDINAL CLOSURE POUR DETAIL

SCALE: 1" = 1'-0"



TRANSVERSE CLOSURE POUR DETAIL

SCALE: 1" = 1'-0"



END BENT CLOSURE POUR DETAIL

SCALE: 1" = 1'-0"

MODULE TYPE	"D _{LIFT 1} "	"D _{LIFT 2} "
TYPE I (A-D)	6"	5'-7 3/4"
TYPE II (A-D)	10 3/4"	5'-7 3/4"
TYPE III (A-B)	6"	7'-3"
TYPE IV (A-B)	10 3/4"	7'-3 3/4"

BILL OF MATERIALS			
LONGITUDINAL CLOSURE POURS*			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	7	36'-4"	
#8	14	27'-6"	
TOTAL #8			1707
#7	7	36'-2"	
#7	14	27'-4"	
TOTAL #7			1300
TOTAL EPOXY COATED REINFORCING BARS			3173
CONCRETE			
ULTRA HIGH PERFORMANCE CONCRETE			25.2 CYS

* LONGITUDINAL CLOSURE POUR QUANTITY INCLUDES UHPC UP TO BULKHEAD LINES, UNDER THE ASSUMPTION THAT TRANSVERSE CLOSURE POURS WILL BE POURED AFTER LONGITUDINAL CLOSURE POURS UP TO BULKHEAD LINES. SEE SUPERSTRUCTURE PLAN VIEW FOR BULKHEAD LINES.

BILL OF MATERIALS			
TRANSVERSE CLOSURE POURS*			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#5	4	40'-0"	
TOTAL #5			167
TOTAL EPOXY COATED REINFORCING BARS			167
CONCRETE			
ULTRA HIGH PERFORMANCE CONCRETE			10.4 CYS

* TRANSVERSE CLOSURE POUR QUANTITY INCLUDES UHPC UP TO BULKHEAD LINES, UNDER THE ASSUMPTION THAT TRANSVERSE CLOSURE POURS WILL BE POURED AFTER LONGITUDINAL CLOSURE POURS UP TO BULKHEAD LINES. SEE SUPERSTRUCTURE PLAN VIEW FOR BULKHEAD LINES.

NOTE:

- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.

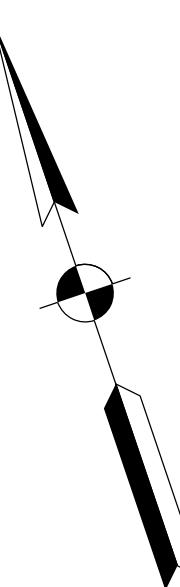
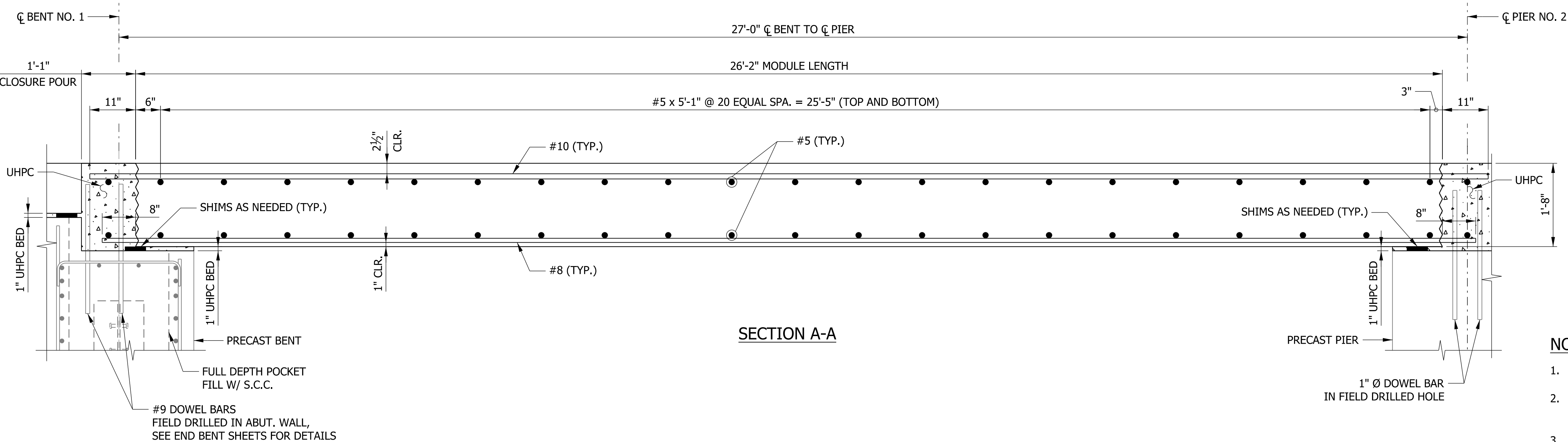
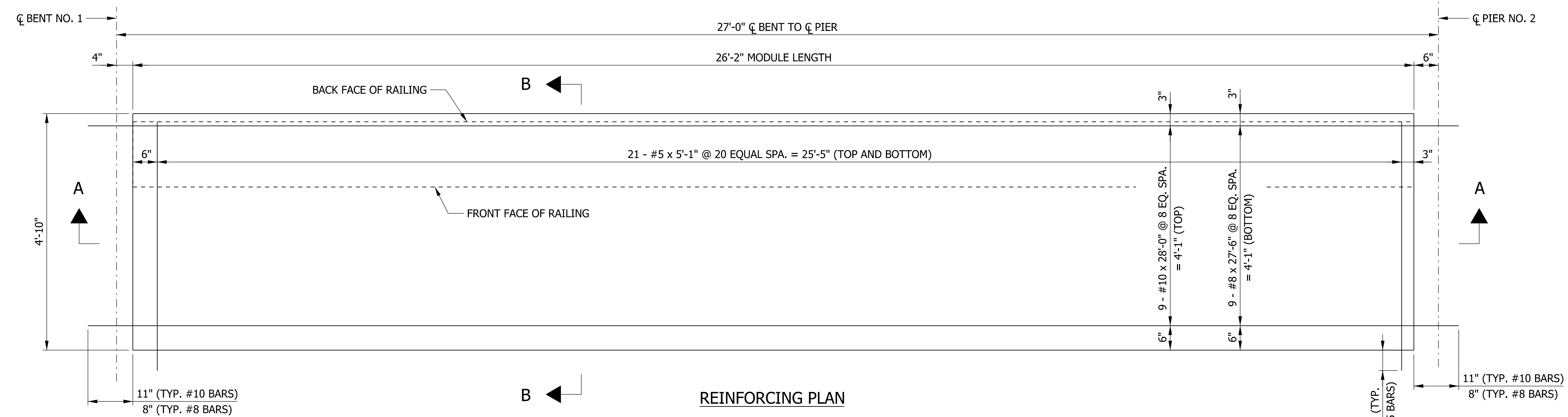
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: _____ ALM		DRAWN: _____ MR	
CHECKED: _____ MEW		CHECKED: _____ ALM	

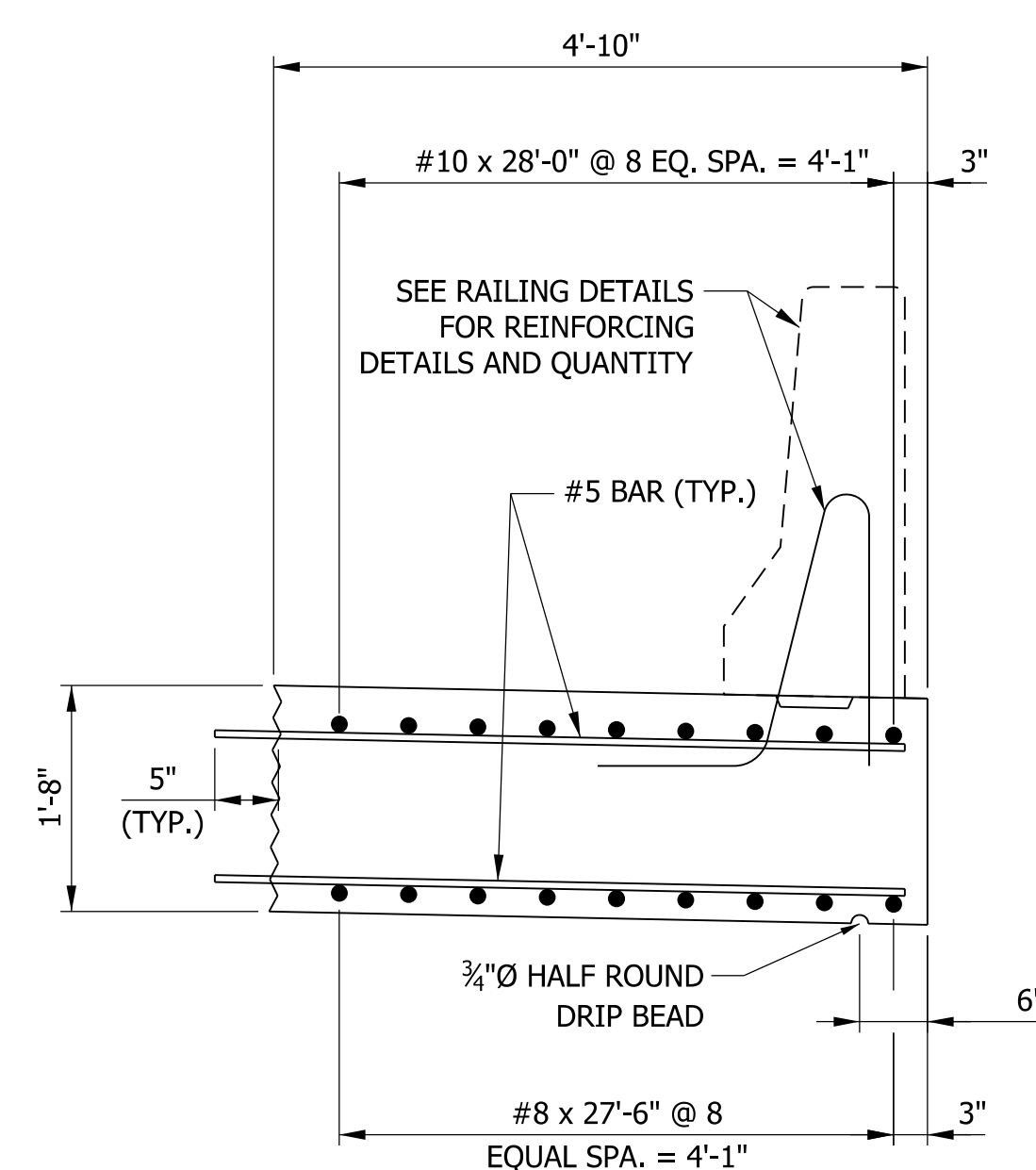
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		052-70-10277	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		38	of 64
CONTRACT		PROJECT	
B-35450		1006266	



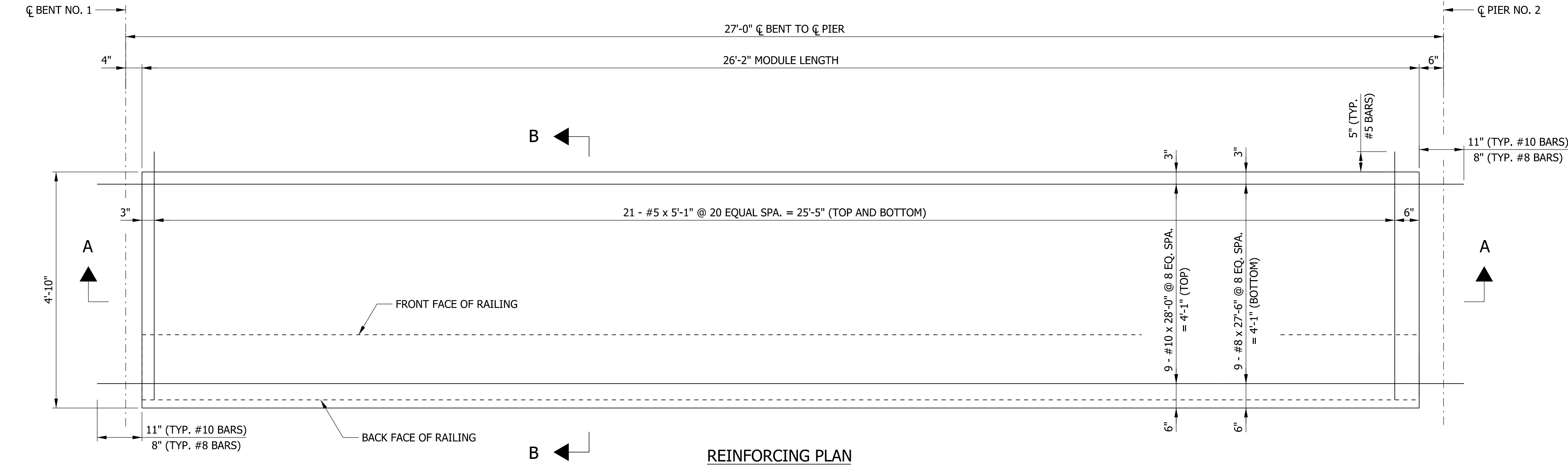
<u>BILL OF MATERIALS</u>			
MODULE TYPE IA			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#10	9	28'-0"	
TOTAL #10			1084
#8	9	27'-6"	
TOTAL #8			661
#5	42	5'-1"	
TOTAL #5			223
TOTAL EPOXY COATED REINFORCING BARS			1968
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			7.9 CYS
MISCELLANEOUS			
SURFACE SEAL (62 SFT)			11.5



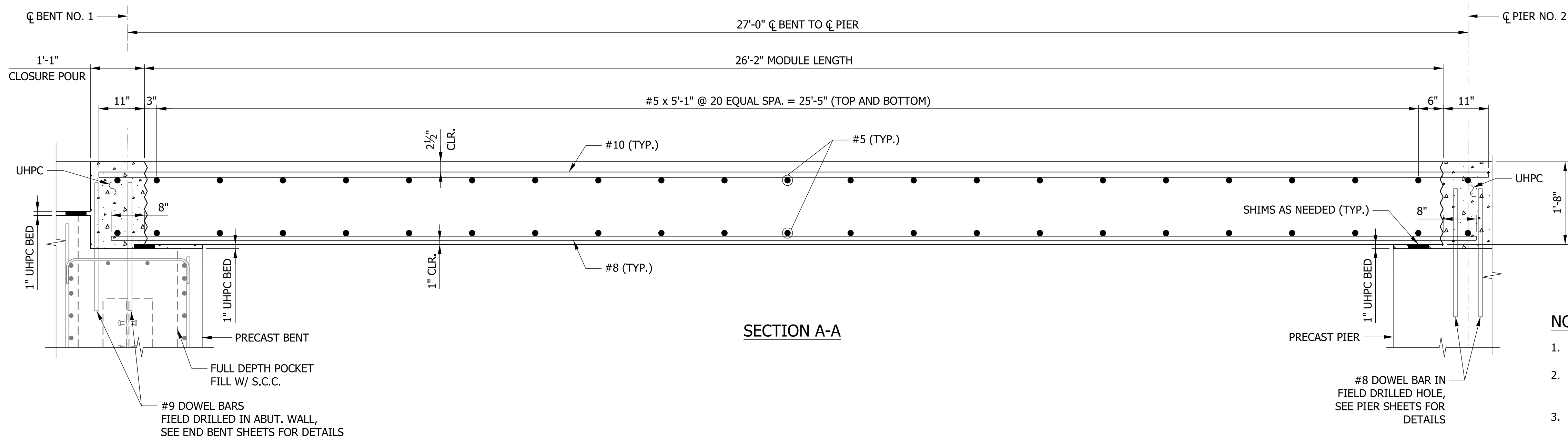
- NOTES:

1. MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
2. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
3. POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
4. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
5. LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

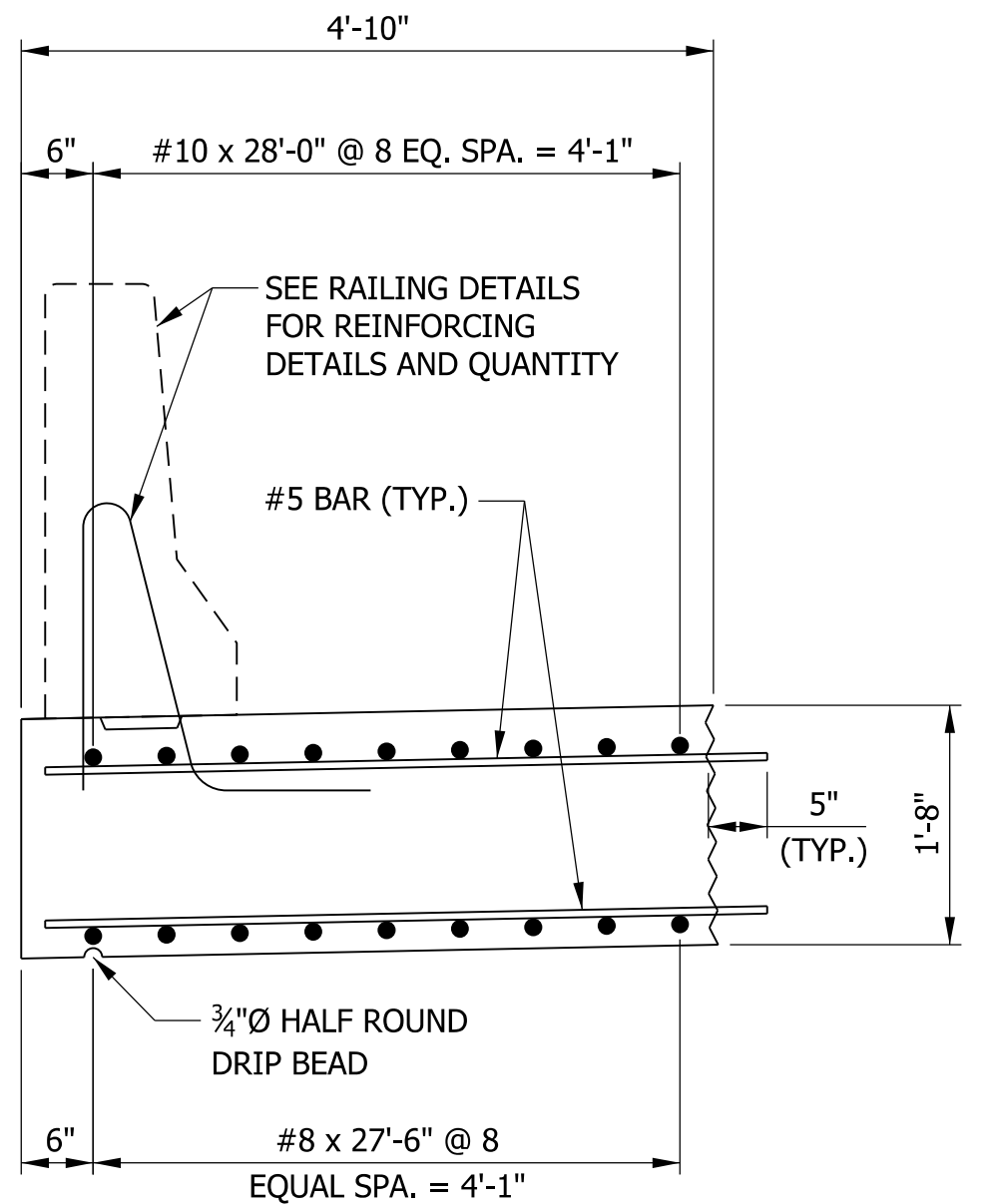
nkless
3/27/2020 8:28:24 pm
model: Exterior module span ib
file: c:\cadilla\pwn\inkless\greatakes\00195487\69847-s-br-sb04.dgn



REINFORCING PLAN



SECTION A-A



SECTION B-B

BILL OF MATERIALS			
MODULE TYPE IB			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#10	9	28'-0"	
TOTAL #10			1084
#8	9	27'-6"	
TOTAL #8			661
#5	42	5'-1"	
TOTAL #5			223
TOTAL EPOXY COATED REINFORCING BARS			1968
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			7.9 CYS
MISCELLANEOUS			
SURFACE SEAL (62 SFT)			1 LS

NOTES:

- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
- ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
- POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
- LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

DRAFT
NOT FOR CONSTRUCTION

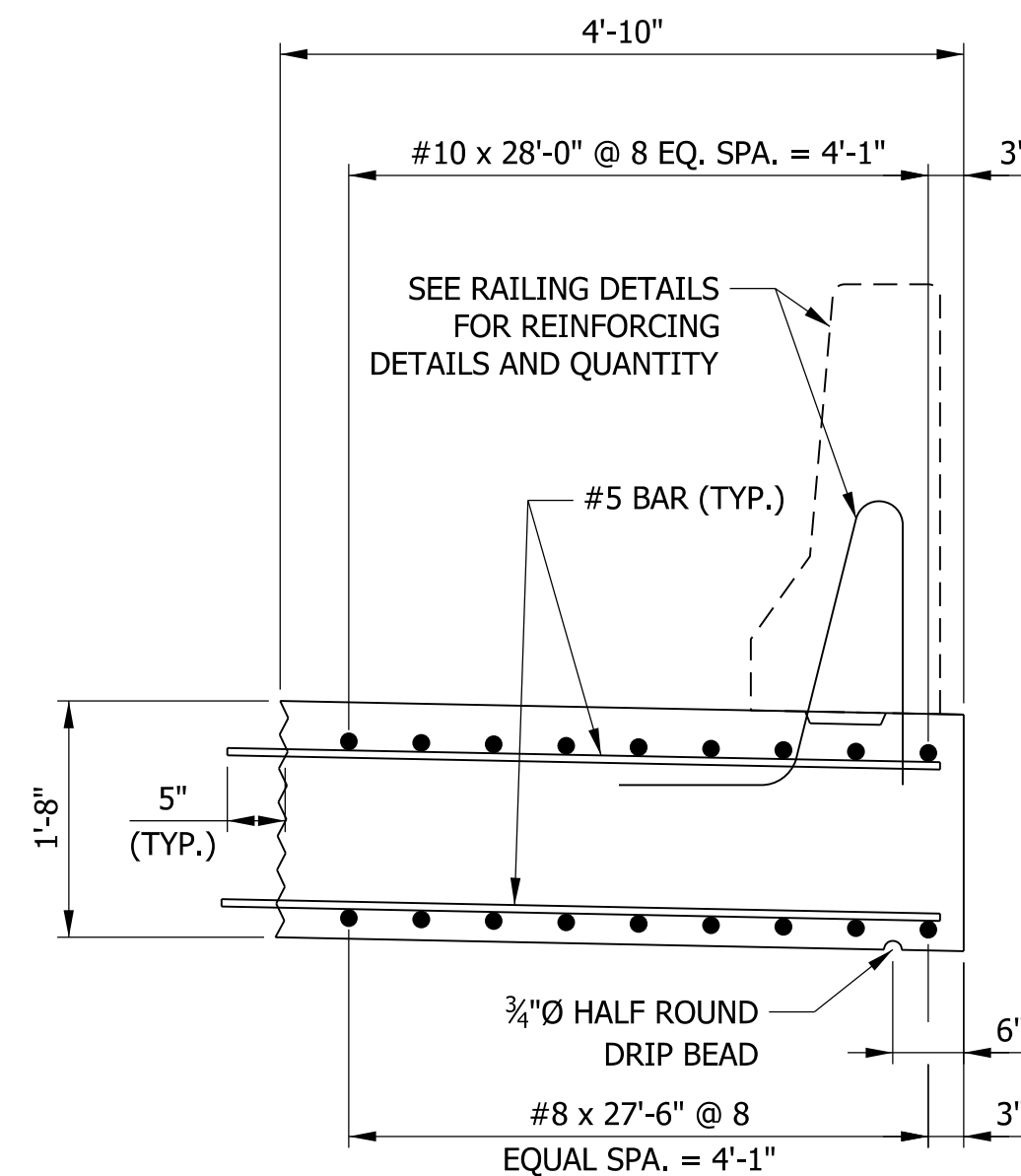
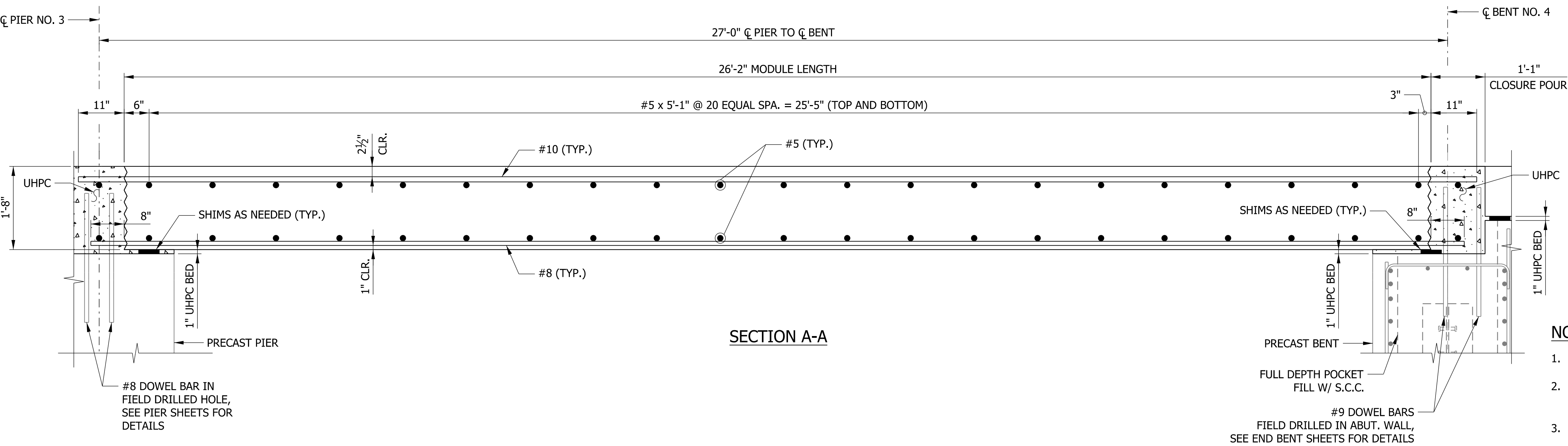
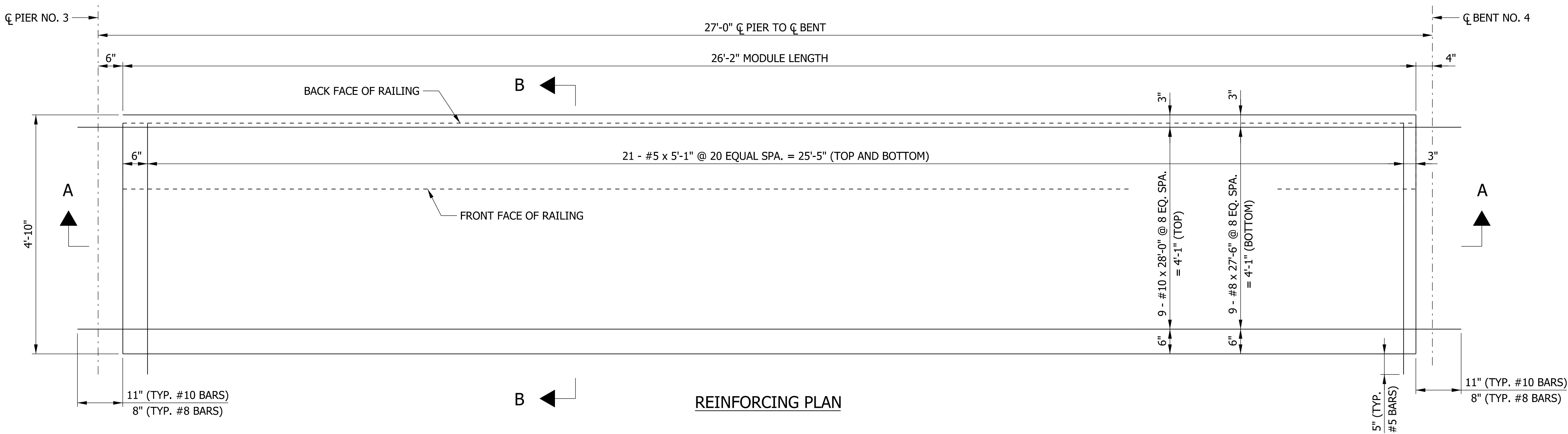
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ALM	DRAWN: MR	
CHECKED: MEW	CHECKED: ALM	

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
EXTERIOR MODULE TYPE IB

HORIZONTAL SCALE	BRIDGE FILE		
3/4" = 1'-0"	052-70-10277		
VERTICAL SCALE	DESIGNATION		
3/4" = 1'-0"	1006266		
SURVEY BOOK	SHEETS		
ELECTRONIC	40	of	64
CONTRACT	PROJECT		
B-35450	1006266		

amatingwa
3/27/2020 7:11:31 pm
model: Exterior module span ic
file: c:\caddilla\pww\inkless\greatlakes\0195487\69847-s-br-sib05.dgn



BILL OF MATERIALS			
MODULE TYPE IC			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#10	9	28'-0"	
TOTAL #10			1084
#8	9	27'-6"	
TOTAL #8			661
#5	42	5'-1"	
TOTAL #5			223
TOTAL EPOXY COATED REINFORCING BARS			1968
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			7.9 CYS
MISCELLANEOUS			
SURFACE SEAL (62 SFT)			1 LS

NOTES:

- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
- ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
- POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
- LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

DRAFT
NOT FOR CONSTRUCTION

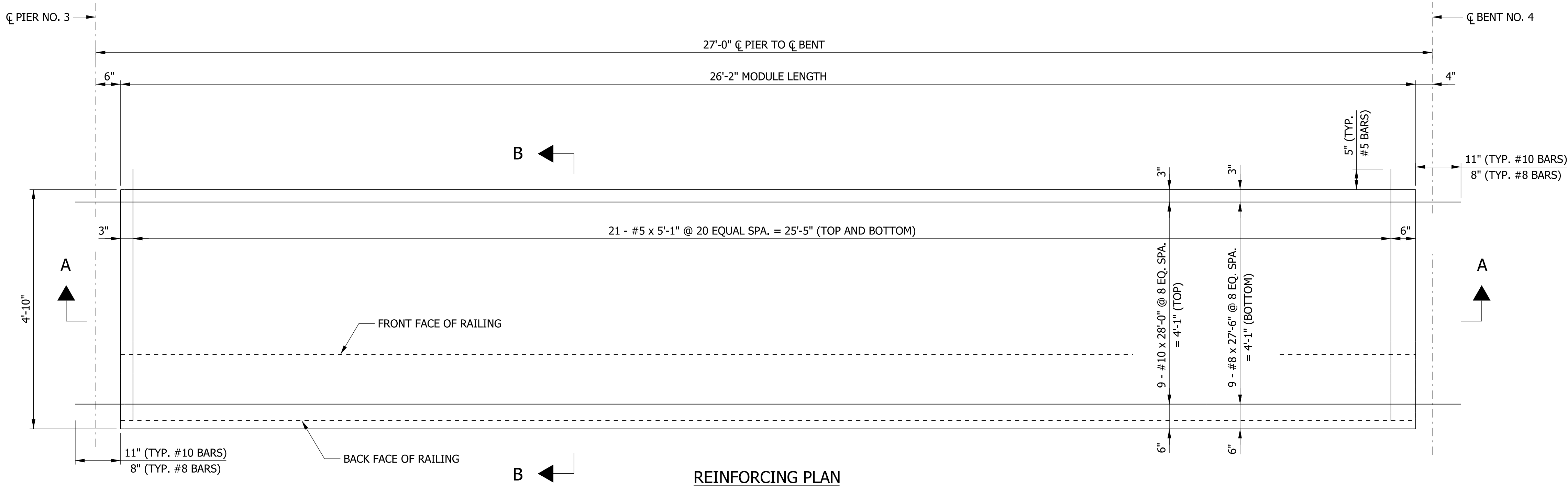
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ ALM	DRAWN: _____ MR	
CHECKED: _____ MEW	CHECKED: _____ ALM	

INDIANA
DEPARTMENT OF TRANSPORTATION

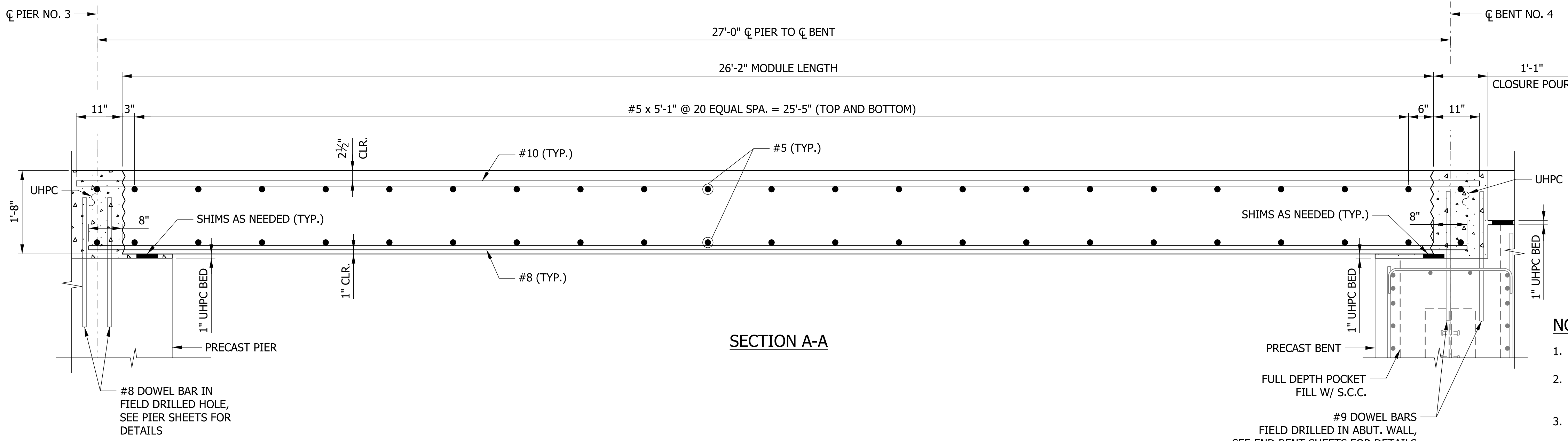
SUPERSTRUCTURE DETAILS
EXTERIOR MODULE TYPE IC

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{3}{4}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{4}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		41	of 64
CONTRACT		PROJECT	
B-35450		1006266	

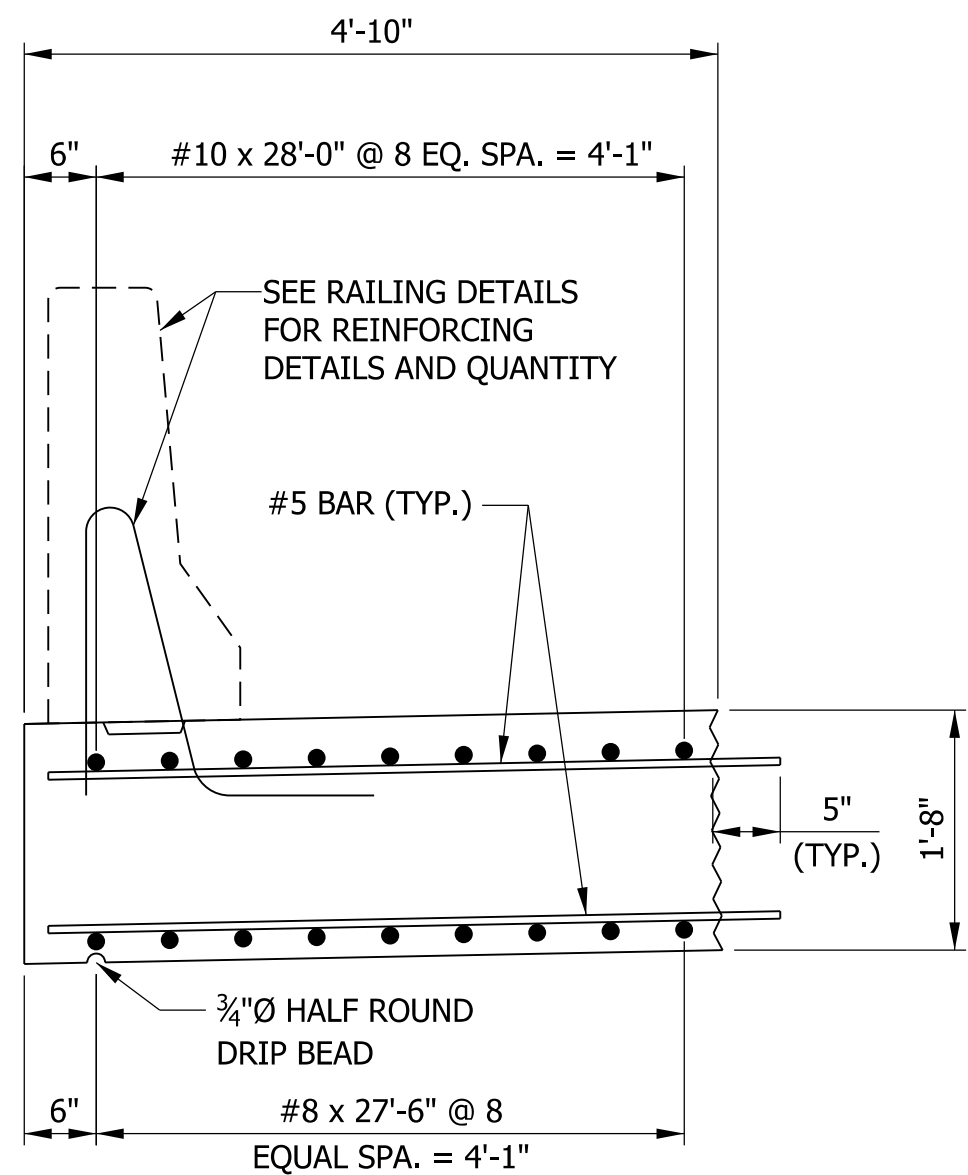
amatingwa
3/27/2020 7:05:52 pm
model: Exterior module span id
file: c:\caddila\pwn\inkless\greatakes\00195487\09847-s-br-sb06.dgn



REINFORCING PLAN



SECTION A-A



SECTION B-B

BILL OF MATERIALS			
MODULE TYPE ID			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#10	9	28'-0"	
TOTAL #10			1084
#8	9	27'-6"	
TOTAL #8			661
#5	42	5'-1"	
TOTAL #5			223
TOTAL EPOXY COATED REINFORCING BARS			1968
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			7.9 CYS
MISCELLANEOUS			
SURFACE SEAL (62 SFT)			1 LS

NOTES:

- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
- ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
- POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
- LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

DRAFT
NOT FOR CONSTRUCTION

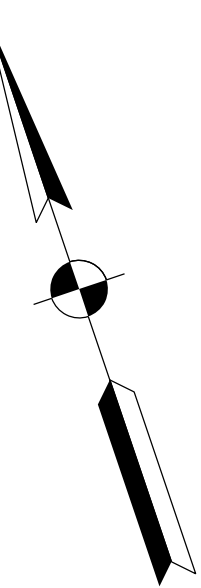
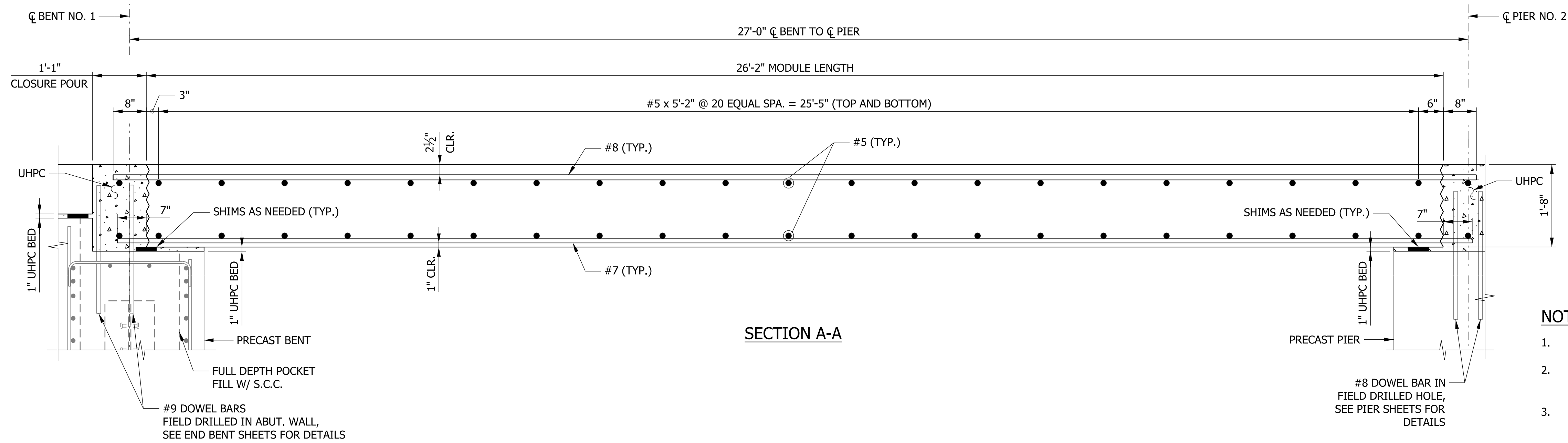
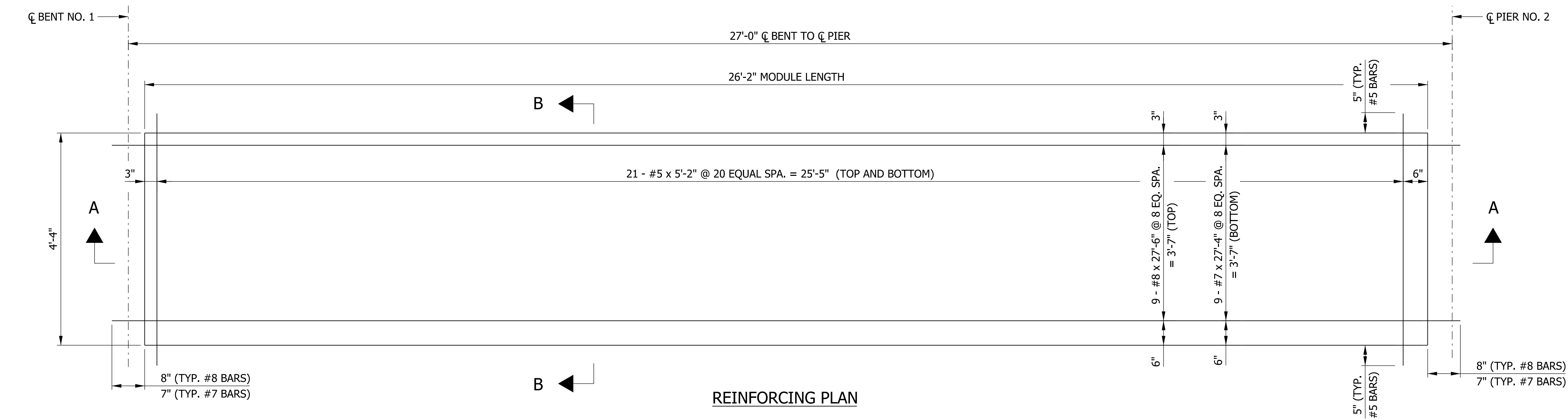
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ALM	DRAWN: MR	
CHECKED: MEW	CHECKED: ALM	

INDIANA
DEPARTMENT OF TRANSPORTATION

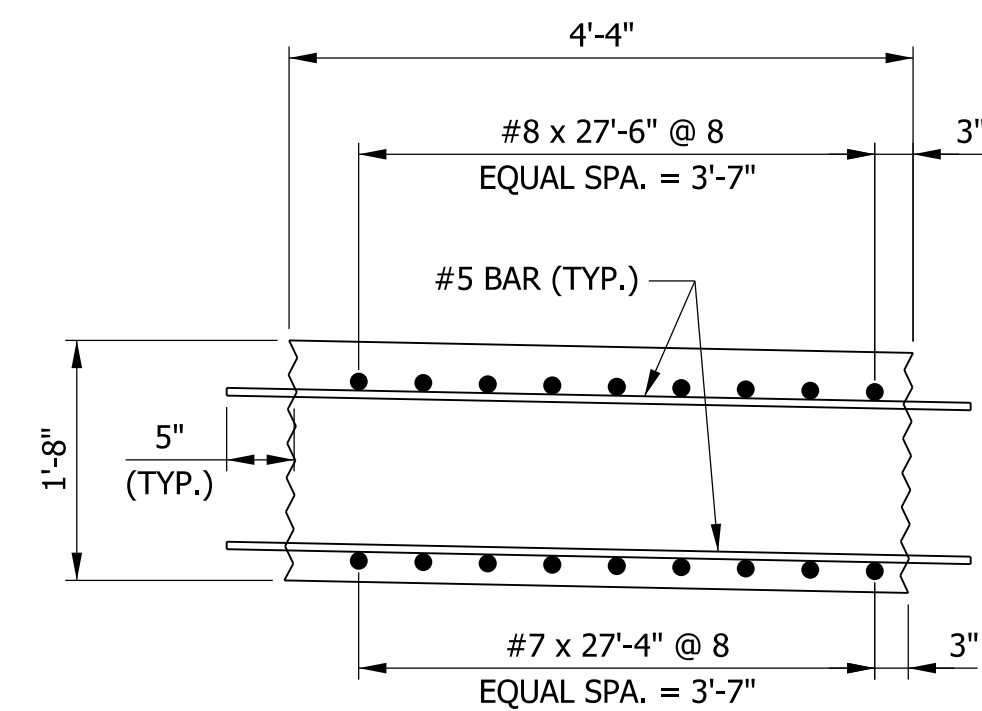
SUPERSTRUCTURE DETAILS
EXTERIOR MODULE TYPE ID

HORIZONTAL SCALE	BRIDGE FILE		
3/4" = 1'-0"	052-70-10277		
VERTICAL SCALE	DESIGNATION		
3/4" = 1'-0"	1006266		
SURVEY BOOK	SHEETS		
ELECTRONIC	42	of	64
CONTRACT	PROJECT		
B-35450	1006266		

amatungwa
3/27/2020 7:03:17 pm
model: Interior module span iia
file: c:\cadd\llo\p\inkless\greatakes\0195487\69847-s-br-sb07.dgn



BILL OF MATERIALS			
MODULE TYPE IIA (QUANTITIES FOR ONE MODULE, THREE REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	9	27'-6"	
TOTAL #8			661
#7	9	27'-4"	
TOTAL #7			503
#5	42	5'-2"	
TOTAL #5			226
TOTAL EPOXY COATED REINFORCING BARS			1390
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			7.0 CYS



NOTES:

- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
- ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
- POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
- LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

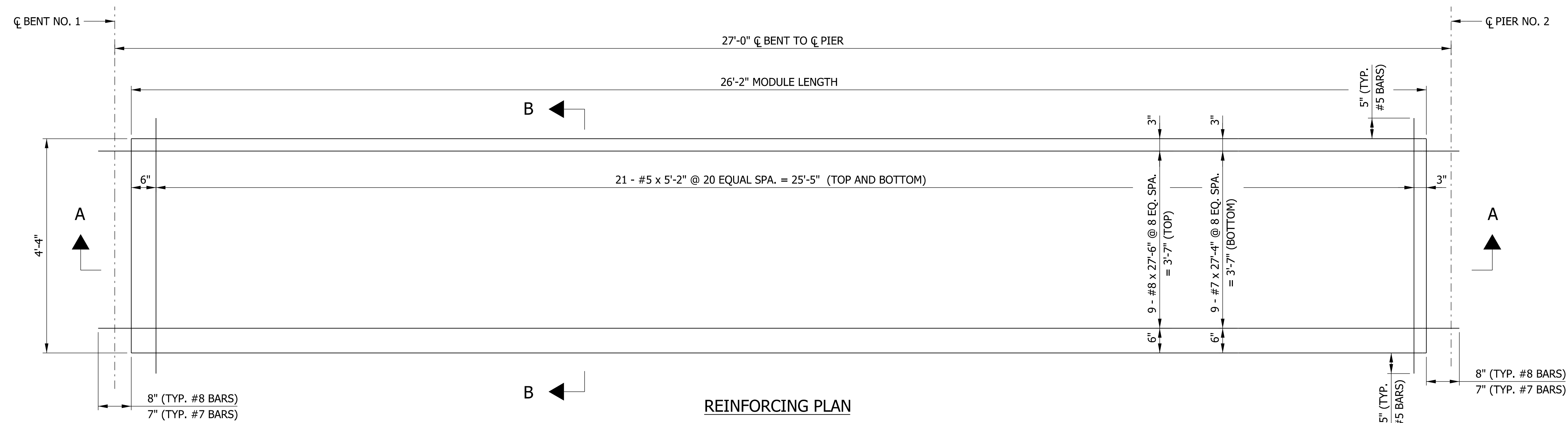
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ ALM	DRAWN: _____ MR		
CHECKED: _____ MEW	CHECKED: _____ ALM		

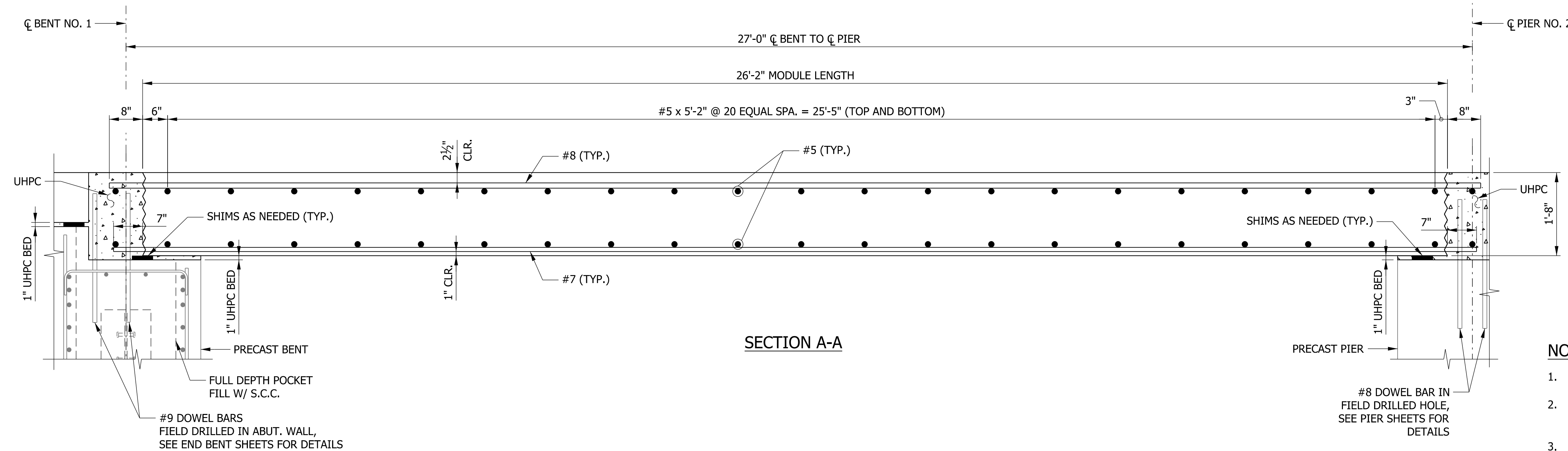
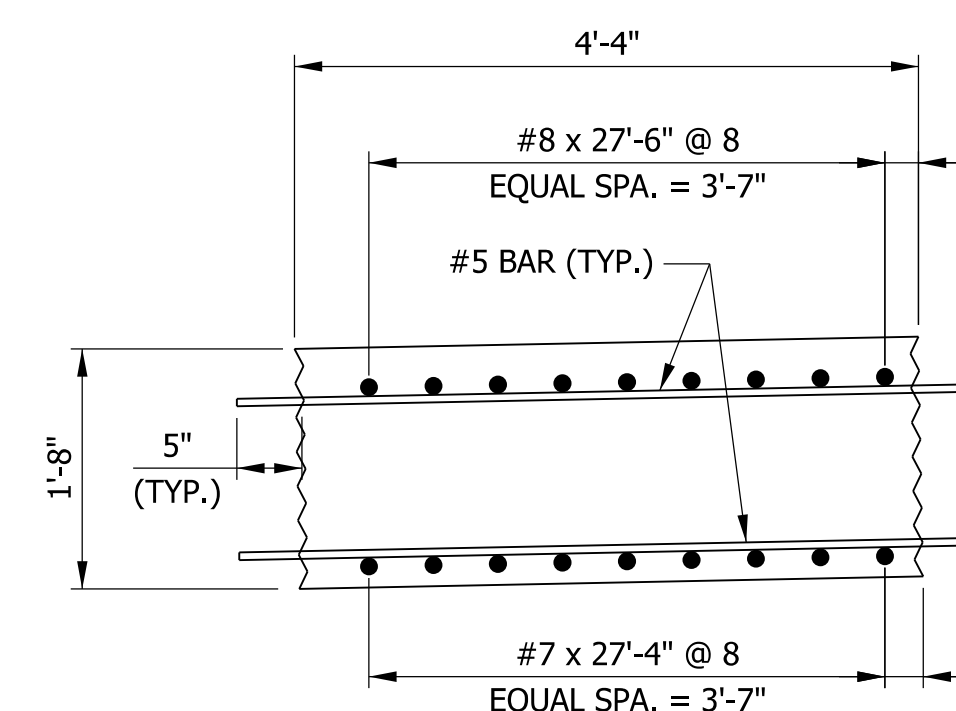
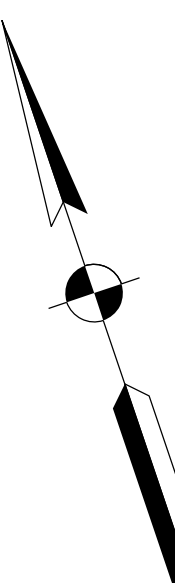
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
INTERIOR MODULE TYPE IIA

HORIZONTAL SCALE 3/8" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 3/8" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 43 of 64	
CONTRACT B-35450		PROJECT 1006266	



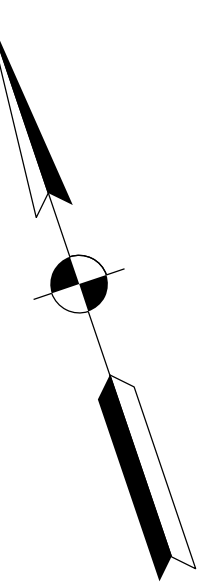
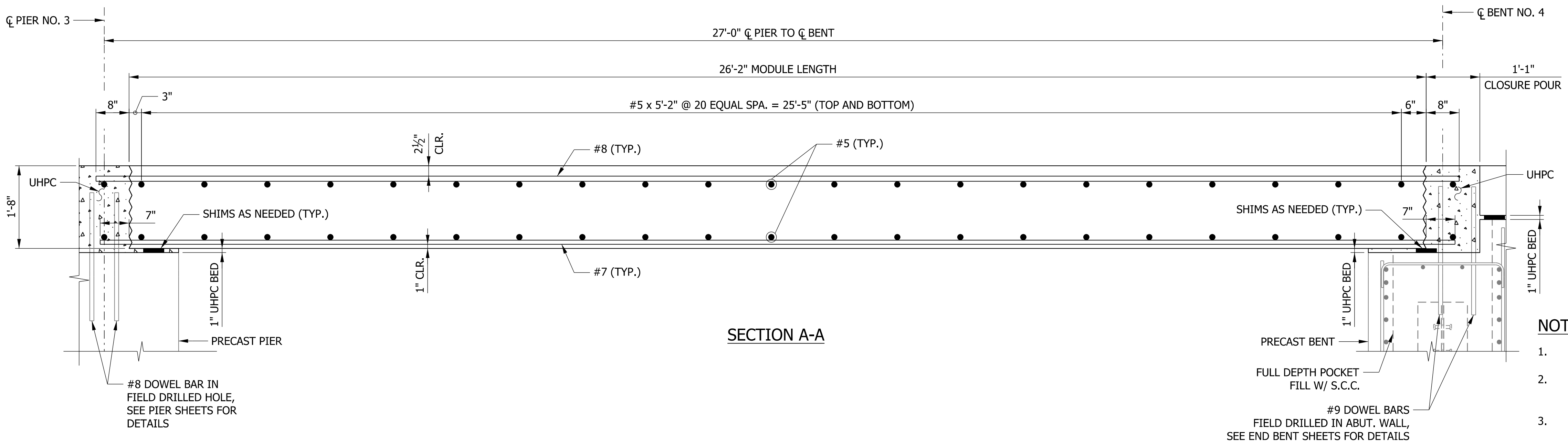
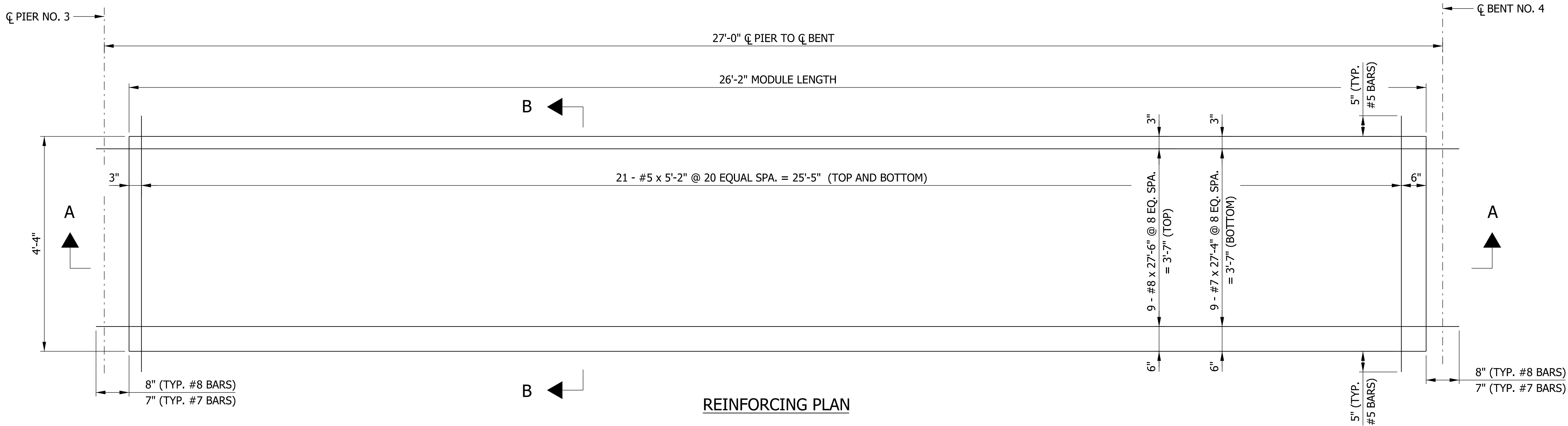
<u>BILL OF MATERIALS</u> MODULE TYPE IIB (QUANTITIES FOR ONE MODULE, THREE REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT.-IN.)	WEIGHT (LBS.)
#8	9	27'-6"	
TOTAL #8			661
#7	9	27'-4"	
TOTAL #7			503
#5	42	5'-2"	
TOTAL #5			226
TOTAL EPOXY COATED REINFORCING BARS			1390
CONCRETE			
CONCRETE, C. SUPERSTRUCTURE, PRECAST			7.0 CY



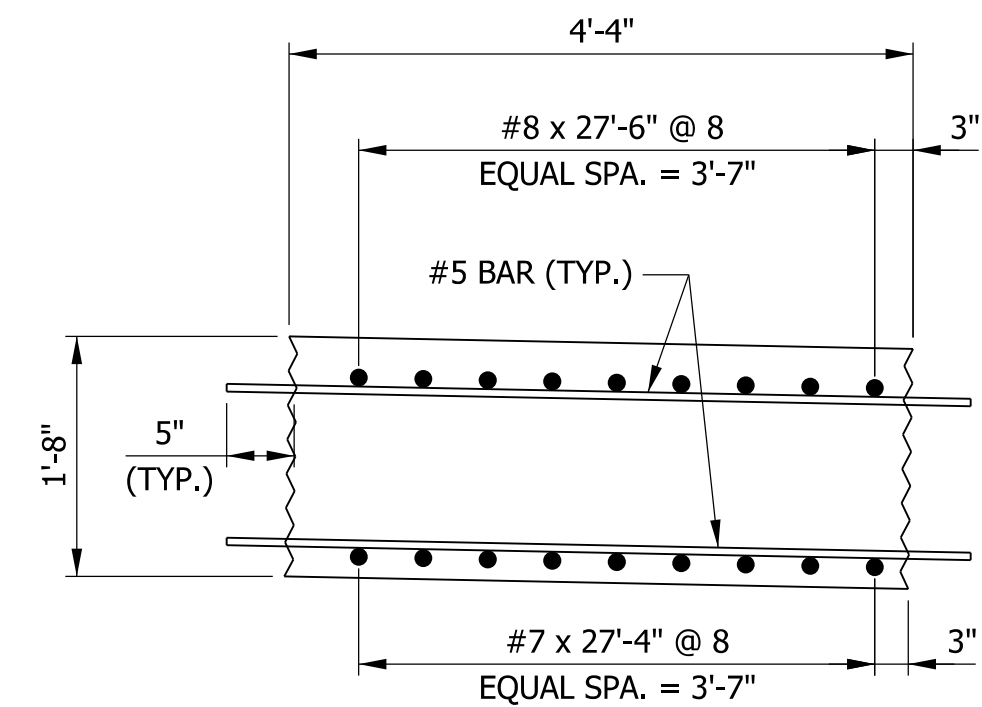
- NOTES:

1. MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
2. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
3. POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
4. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
5. LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

amatingwa
3/27/2020 6:06:40 pm
model: Interior module span iic
file: c:\cadd\ltp\inkless\greatakes\0195487\09847-s-br-sb09.dgn



BILL OF MATERIALS			
MODULE TYPE IIC (QUANTITIES FOR ONE MODULE, THREE REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	9	27'-6"	
TOTAL #8			661
#7	9	27'-4"	
TOTAL #7			503
#5	42	5'-2"	
TOTAL #5			226
TOTAL EPOXY COATED REINFORCING BARS			1390
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			7.0 CYS



NOTES:

- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
- ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
- POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
- LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

DRAFT
NOT FOR CONSTRUCTION

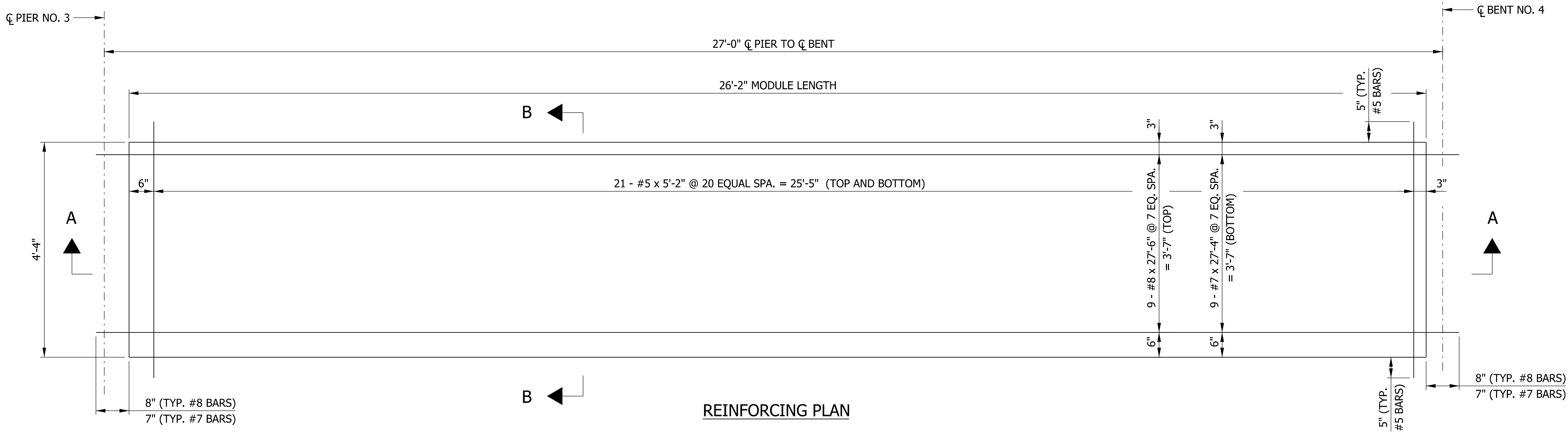
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ ALM	DRAWN: _____ MR		
CHECKED: _____ MEW	CHECKED: _____ ALM		

INDIANA
DEPARTMENT OF TRANSPORTATION

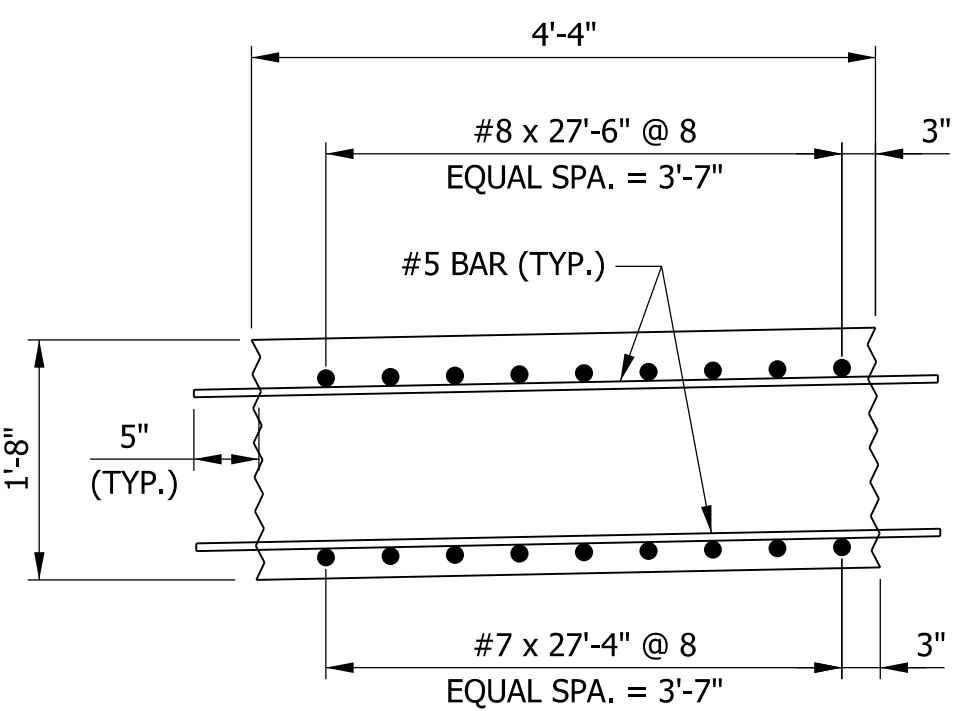
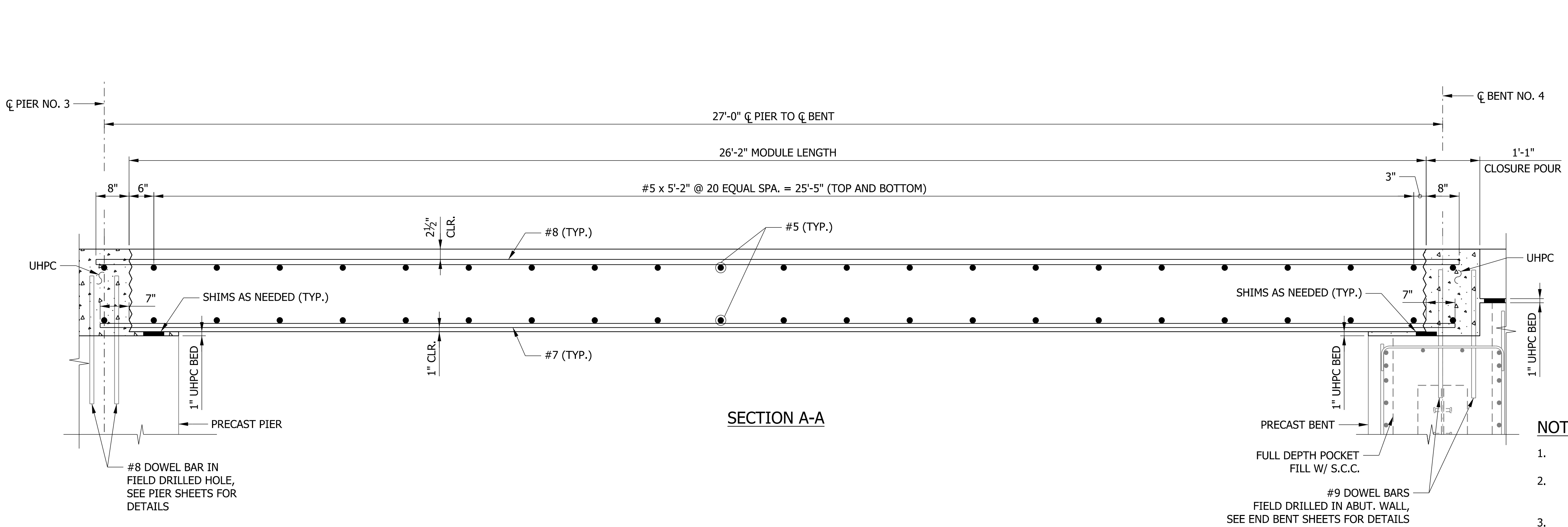
SUPERSTRUCTURE DETAILS
INTERIOR MODULE TYPE IIC

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{3}{4}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{4}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		45	of 64
CONTRACT		PROJECT	
B-35450		1006266	

amatingwa
3/27/2020 6:00:42 pm
model: Interior module span iid
file: c:\caddila\p\inkless\greatakes\0195487\69847-s-br-sb10.dgn



BILL OF MATERIALS			
MODULE TYPE IID (QUANTITIES FOR ONE MODULE, THREE REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	9	27'-6"	
TOTAL #8			661
#7	9	27'-4"	
TOTAL #7			503
#5	42	5'-2"	
TOTAL #5			226
TOTAL EPOXY COATED REINFORCING BARS			1390
CONCRETE			
CONCRETE, SUPERSTRUCTURE C, PRECAST			7.0 CYS



- NOTES:
- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
 - ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
 - POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
 - BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
 - LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

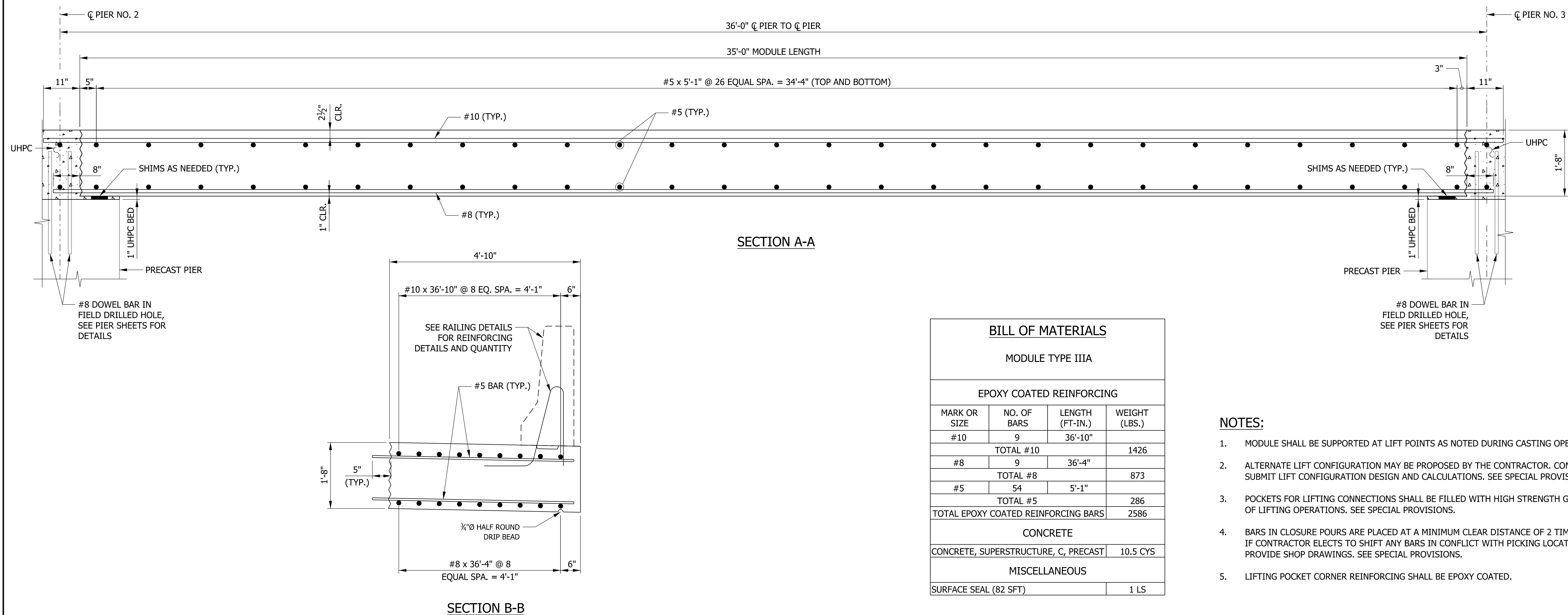
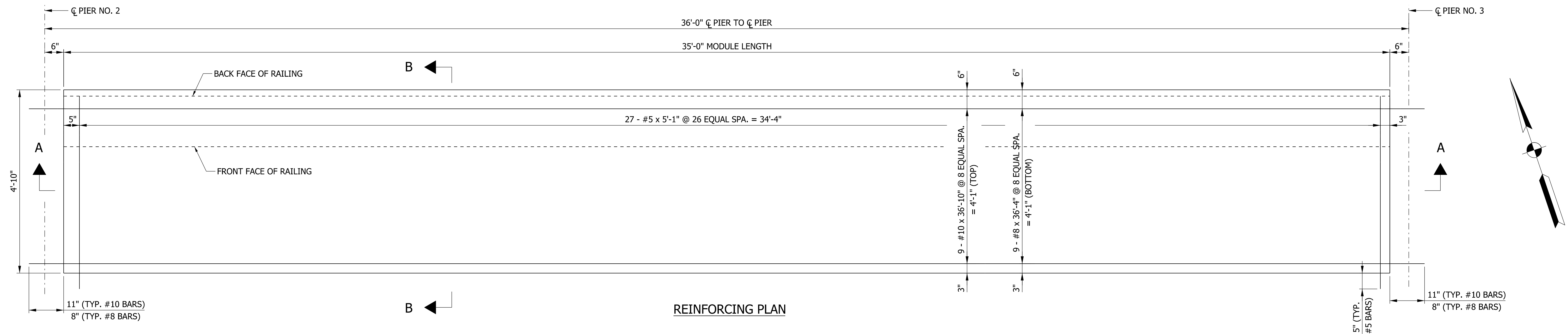
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ ALM	DRAWN: _____ MR	
CHECKED: _____ MEW	CHECKED: _____ ALM	

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
INTERIOR MODULE TYPE IID

HORIZONTAL SCALE $\frac{1}{2}$ " = 1'-0"	BRIDGE FILE 052-70-10277	
VERTICAL SCALE $\frac{1}{2}$ " = 1'-0"	DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC	46	of 64
CONTRACT B-35450	PROJECT 1006266	



<u>BILL OF MATERIALS</u>			
MODULE TYPE IIIA			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#10	9	36'-10"	
TOTAL #10			1426
#8	9	36'-4"	
TOTAL #8			873
#5	54	5'-1"	
TOTAL #5			286
TOTAL EPOXY COATED REINFORCING BARS			2586
CONCRETE			
CONCRETE, SUPERSTRUCTURE, C, PRECAST			10.5 CYS
MISCELLANEOUS			
SURFACE SEAL (82 SFT)			1 LLS

NOTES:

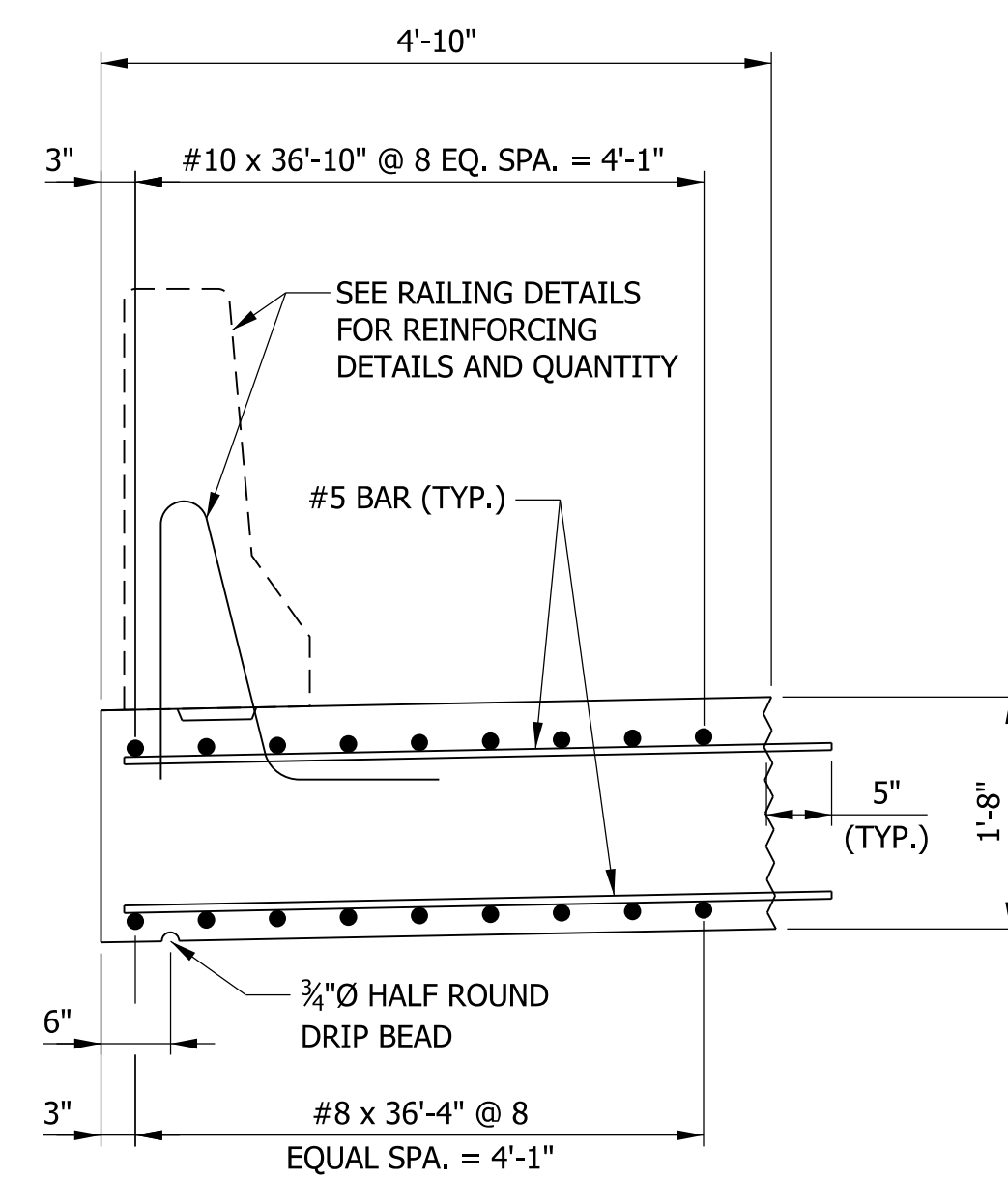
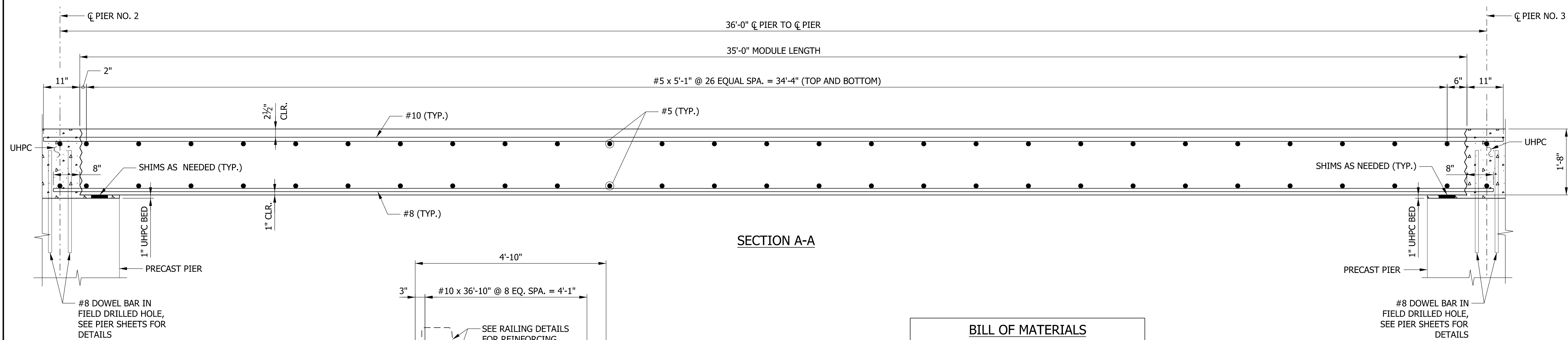
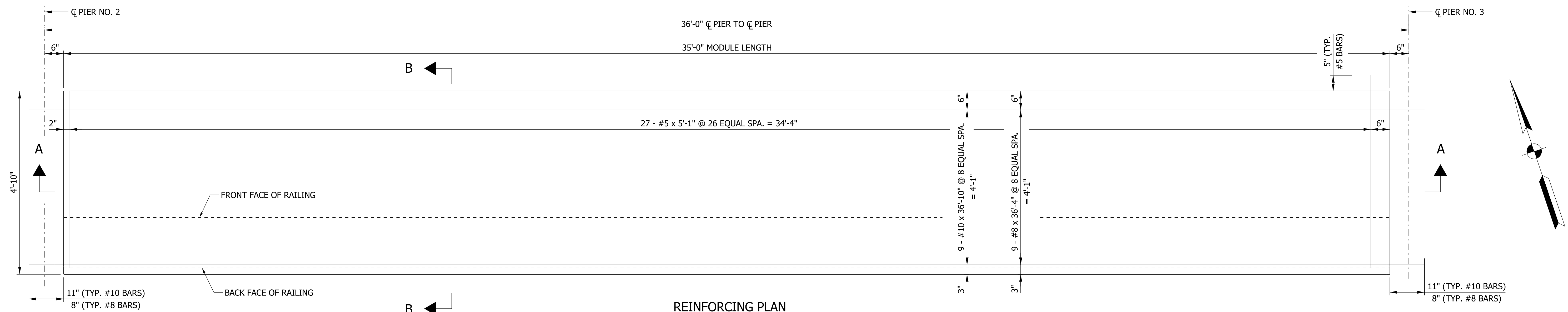
1. MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
2. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
3. POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
4. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
5. LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

7	RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
	DESIGNED: _____ ALM		DRAWN: _____ MR	
	CHECKED: _____ MEW		CHECKED: _____ ALM	

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
EXTERIOR MODULE TYPE IIIA

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{3}{4}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{4}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC	47	of	64
CONTRACT	PROJECT		
B-35450	1006266		



BILL OF MATERIALS

MODULE TYPE IIIB

EPOXY COATED REINFORCING

MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#10	9	36'-10"	
TOTAL #10			1426
#8	9	36'-4"	
TOTAL #8			873
#5	54	5'-1"	
TOTAL #5			286
TOTAL EPOXY COATED REINFORCING BARS			2586

CONCRETE

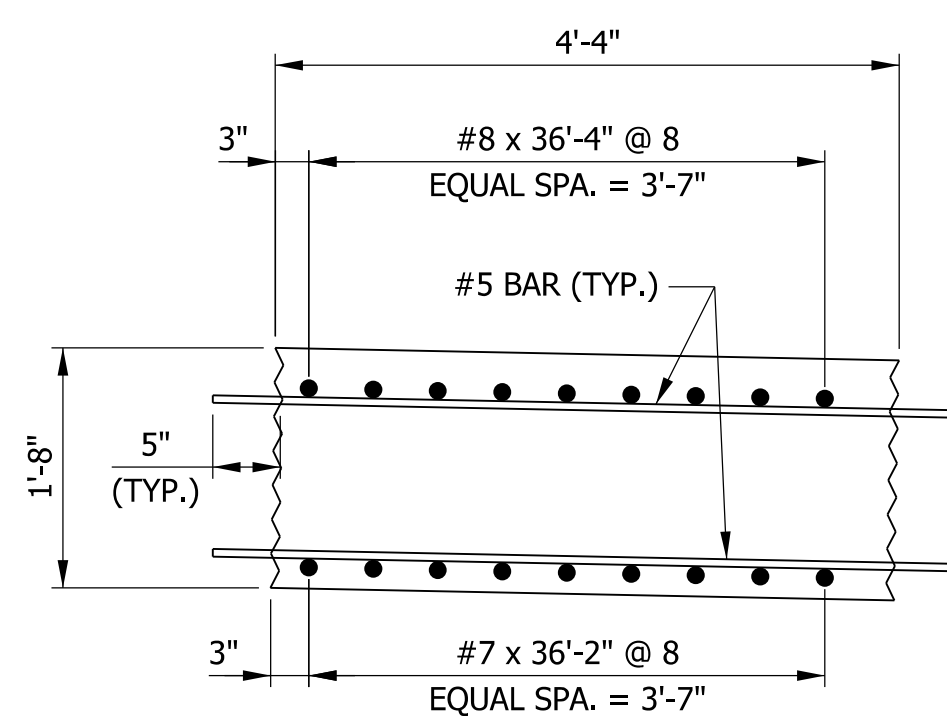
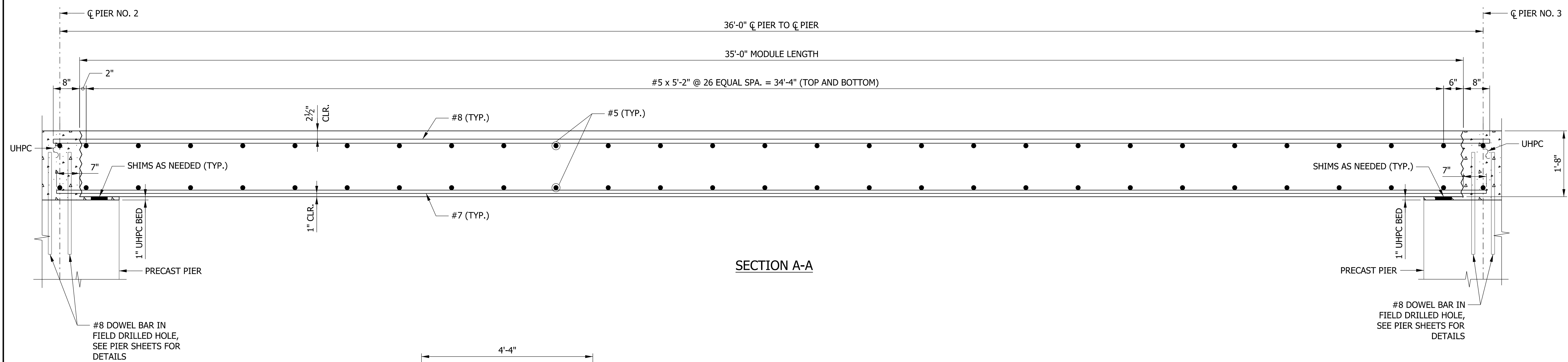
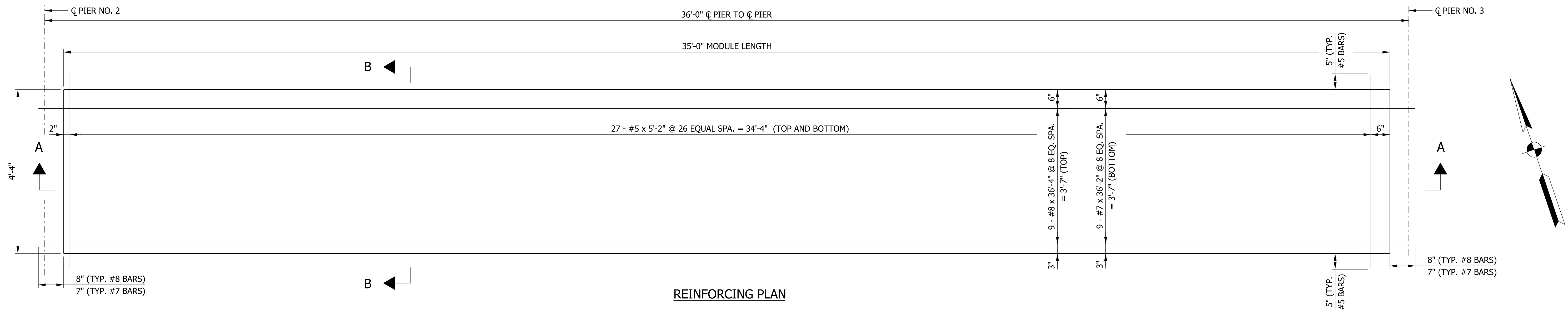
CONCRETE, C, SUPERSTRUCTURE, PRECAST	10.5 CYS
--------------------------------------	----------

MISCELLANEOUS

SURFACE SEAL (82 SFT)	1 LS
-----------------------	------

- NOTES:

1. MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
2. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
3. POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
4. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
5. LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.



<u>BILL OF MATERIALS</u> MODULE TYPE IVA (QUANTITIES FOR ONE MODULE, THREE REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	9	36'-4"	
TOTAL #8			873
#7	9	36'-2"	
TOTAL #7			665
#5	54	5'-2"	
TOTAL #5			291
TOTAL EPOXY COATED REINFORCING BARS			1829
CONCRETE			
CONCRETE, C. SUPERSTRUCTURE, PRECAST			9.4 CYS

NOTES:

1. MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
2. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
3. POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
4. BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
5. LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

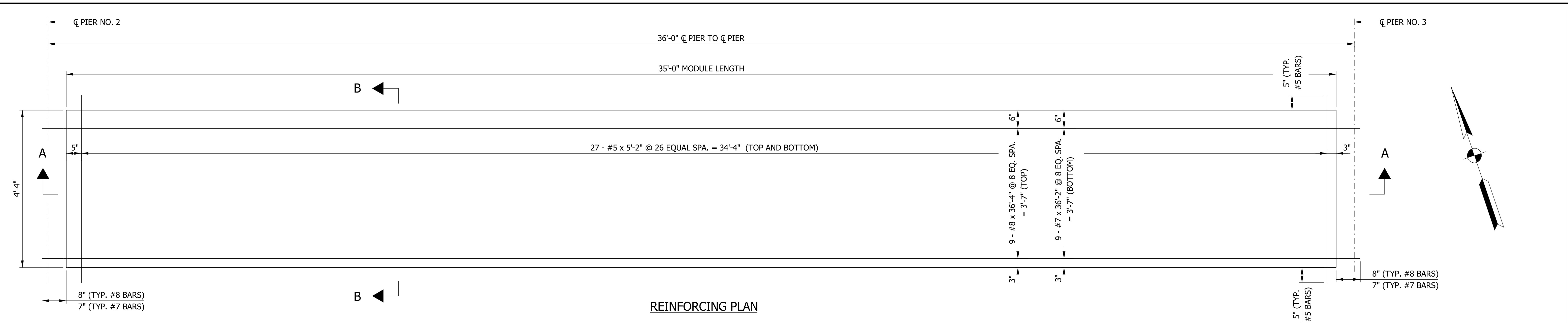
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE
	DESIGNED: ALM	DRAWN: MR	
CHECKED: MEW	CHECKED: ALM		

INDIANA
DEPARTMENT OF TRANSPORTATION

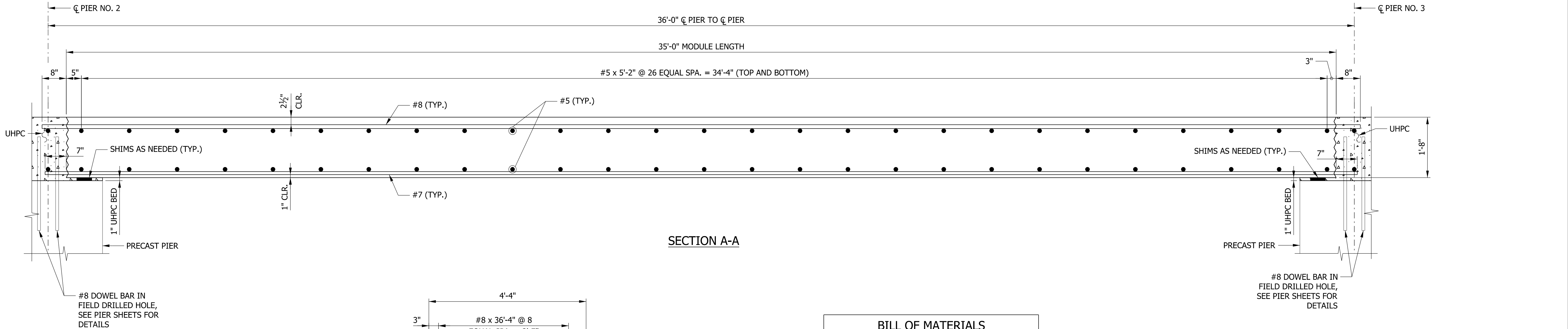
SUPERSTRUCTURE DETAILS
INTERIOR MODULE TYPE IVA

HORIZONTAL SCALE		BRIDGE FILE	
¾" = 1'-0"		052-70-10277	
VERTICAL SCALE		DESIGNATION	
¾" = 1'-0"		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC	49	of	64
CONTRACT	PROJECT		
B-35450	1006266		

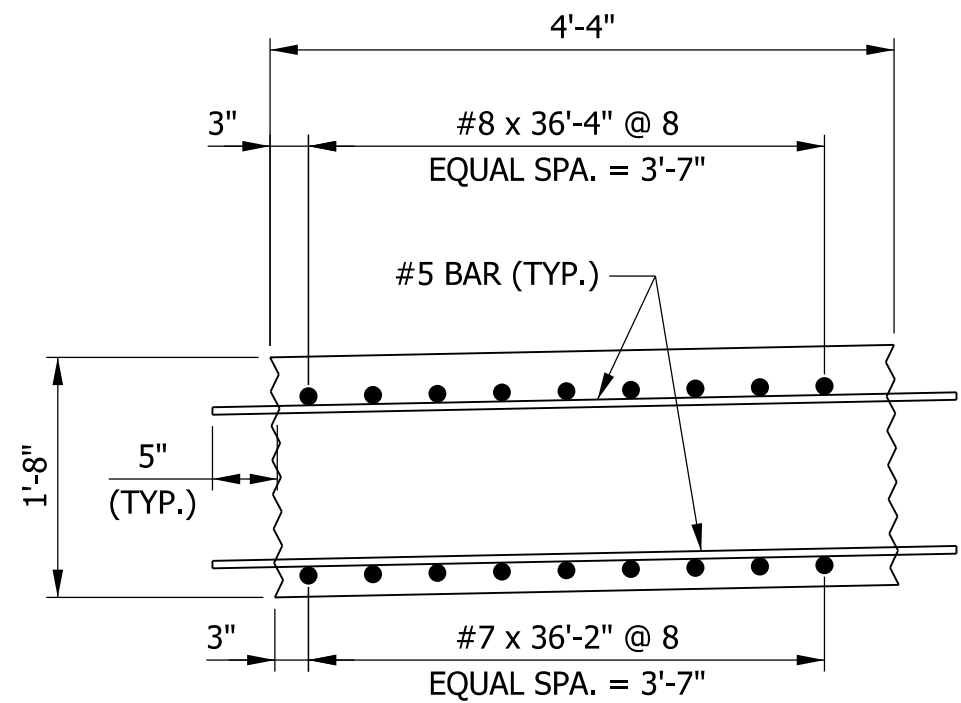
amatingwa
3/27/2020 6:23:53 pm
model: Exterior module nb
file: c:\caddilla\pwn\inkless\greatakes\00195487\09847-s-br-sb14.dgn



REINFORCING PLAN



SECTION A-A



SECTION B-B

BILL OF MATERIALS			
MODULE TYPE IVB (QUANTITIES FOR ONE MODULE, THREE REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#8	9	36'-4"	
TOTAL #8			873
#7	9	36'-2"	
TOTAL #7			665
#5	54	5'-2"	
TOTAL #5			291
TOTAL EPOXY COATED REINFORCING BARS			1829
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE, PRECAST			9.4 CYS

NOTES:

- MODULE SHALL BE SUPPORTED AT LIFT POINTS AS NOTED DURING CASTING OPERATIONS AND STORAGE.
- ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.
- POCKETS FOR LIFTING CONNECTIONS SHALL BE FILLED WITH HIGH STRENGTH GROUT UPON COMPLETION OF LIFTING OPERATIONS. SEE SPECIAL PROVISIONS.
- BARS IN CLOSURE POURS ARE PLACED AT A MINIMUM CLEAR DISTANCE OF 2 TIMES THE BAR DIAMETER. IF CONTRACTOR ELECTS TO SHIFT ANY BARS IN CONFLICT WITH PICKING LOCATIONS, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS. SEE SPECIAL PROVISIONS.
- LIFTING POCKET CORNER REINFORCING SHALL BE EPOXY COATED.

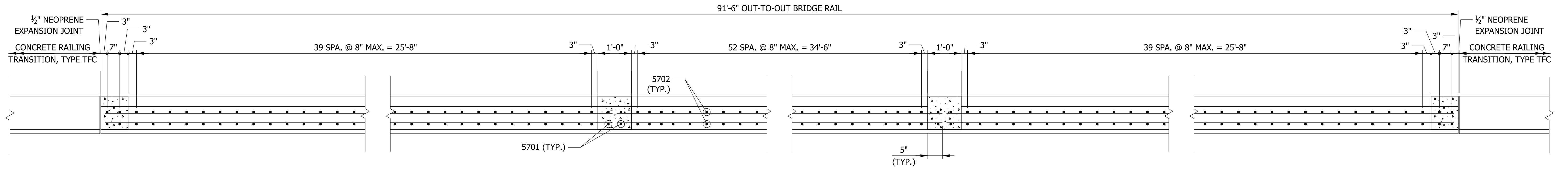
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: _____ ALM		DRAWN: _____ MR	
CHECKED: _____ MEW		CHECKED: _____ ALM	

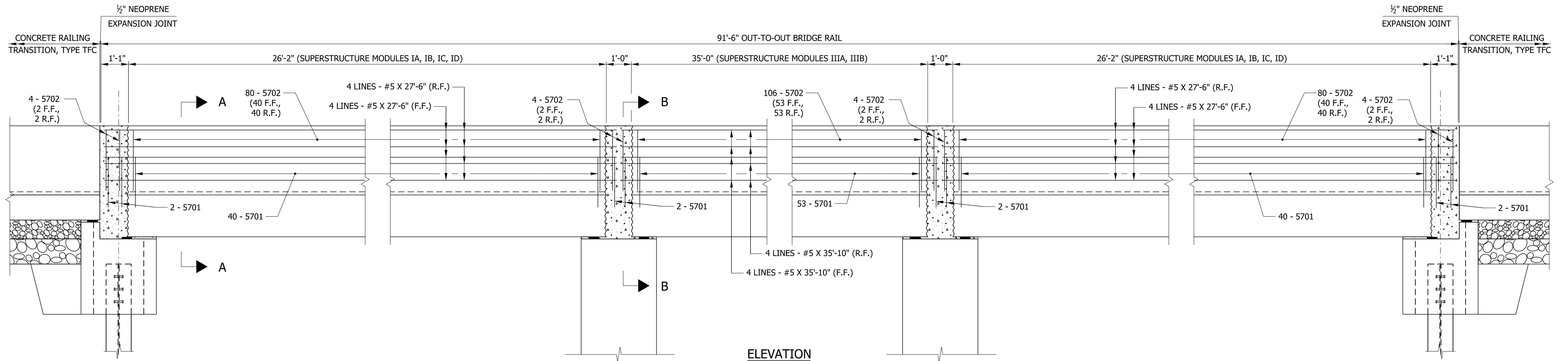
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
INTERIOR MODULE TYPE IVB

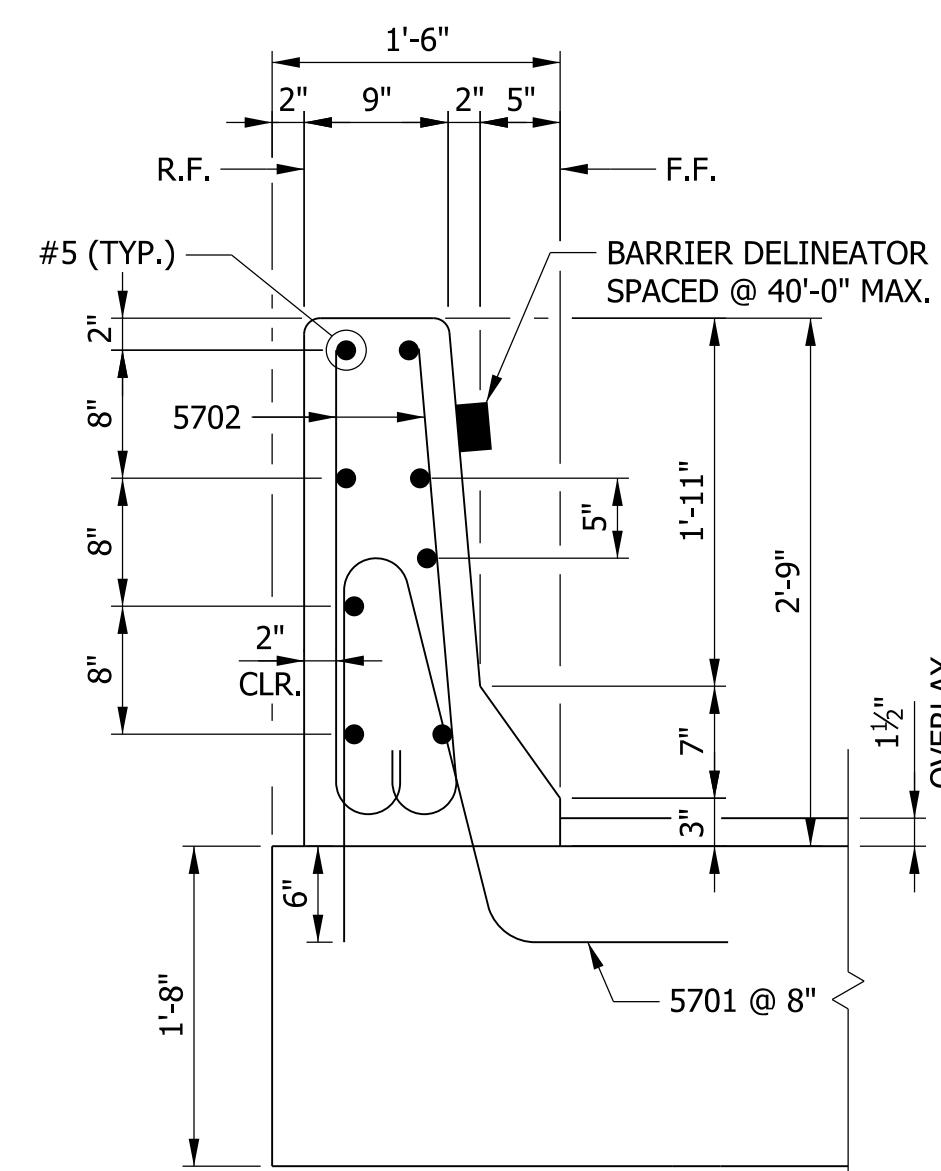
HORIZONTAL SCALE 3/8" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 3/4" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 50 of 64	
CONTRACT B-35450		PROJECT 1006266	



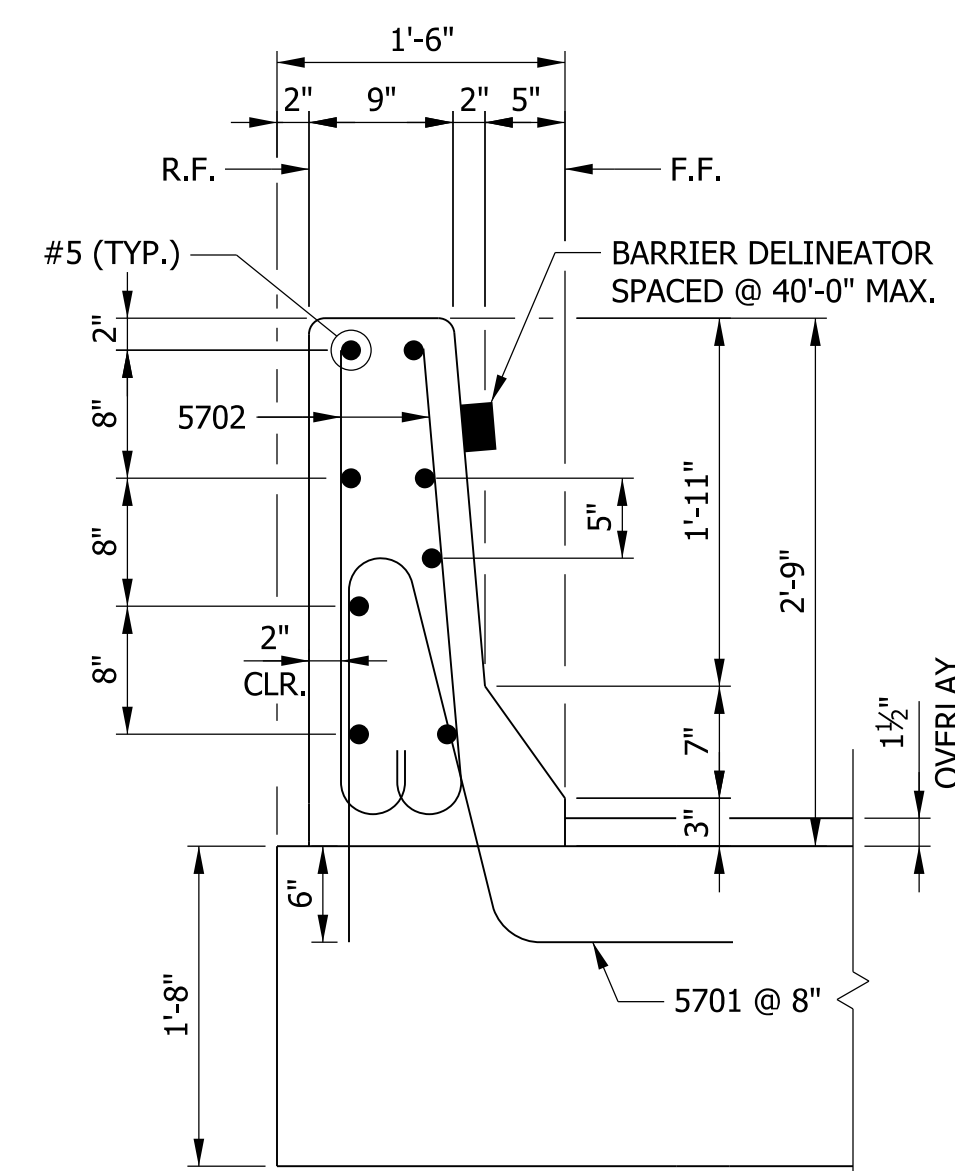
PLAN
SCALE: 1/2" = 1'-0"
(SOUTH RAILING SHOWN, NORTH RAILING SIMILAR)



ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"

LEGEND:

- F.F. DENOTES FRONT FACE
R.F. DENOTES REAR FACE
E.F. DENOTES EACH FACE

NOTES:

- FOR ADDITIONAL REINFORCING BAR NOTES AND BAR BENDING DETAILS, SEE STD. DWG. E 703-BRST-01.
- ALL REINFORCING BARS SHALL BE EPOXY COATED, UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL CONCRETE BRIDGE RAILING DETAILS, SEE STD. DWG. E 706-BRSF-02 & 04.
- FOR BRIDGE RAILING TRANSITION TYPE TFC DETAILS, SEE STD. DWG. E 706-TTFC-01 THRU -03.

mwallace
3/27/2020 8:43:02 pm
model: Bridge railing
file: c:\cadd\lpw\inkless\greatakes\00195467\09847-s-br-cbd.dgn

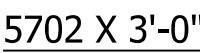
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____ ALM		DRAWN: _____ ALM			
CHECKED: _____ MEW		CHECKED: _____ MEW			

INDIANA
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS

HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		052-70-10277	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		51	of 64
CONTRACT		PROJECT	
B-35450		1006266	



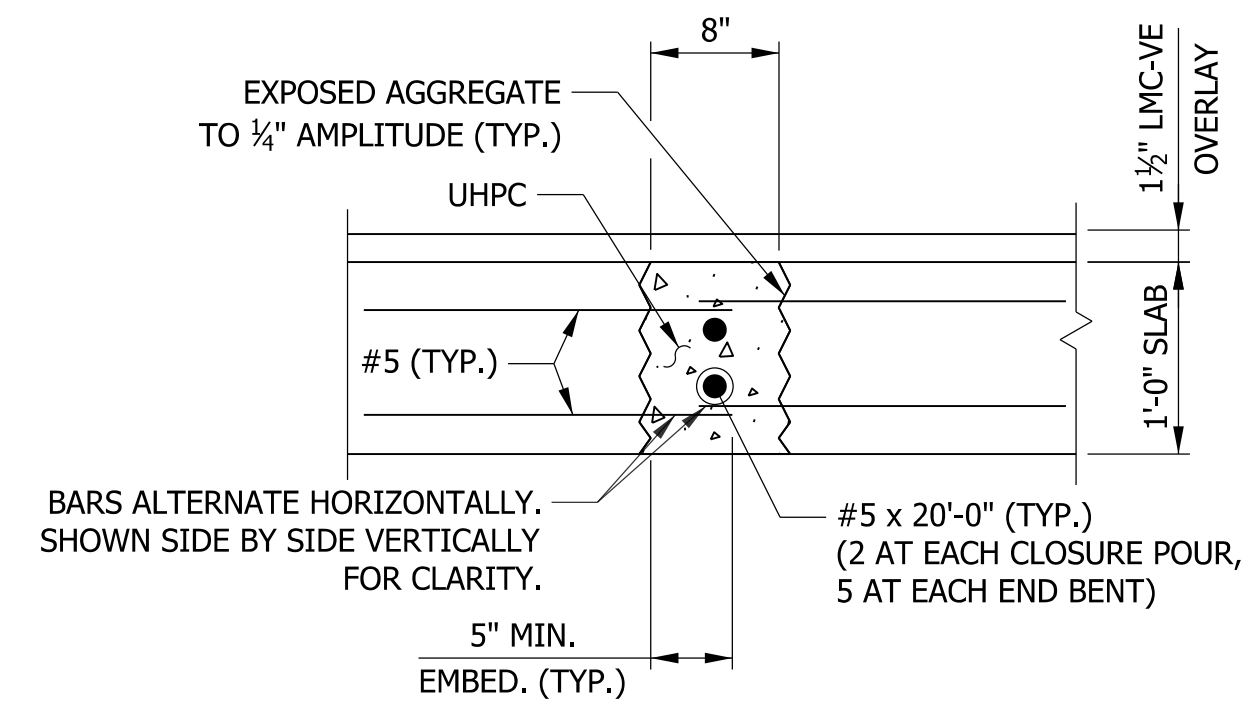
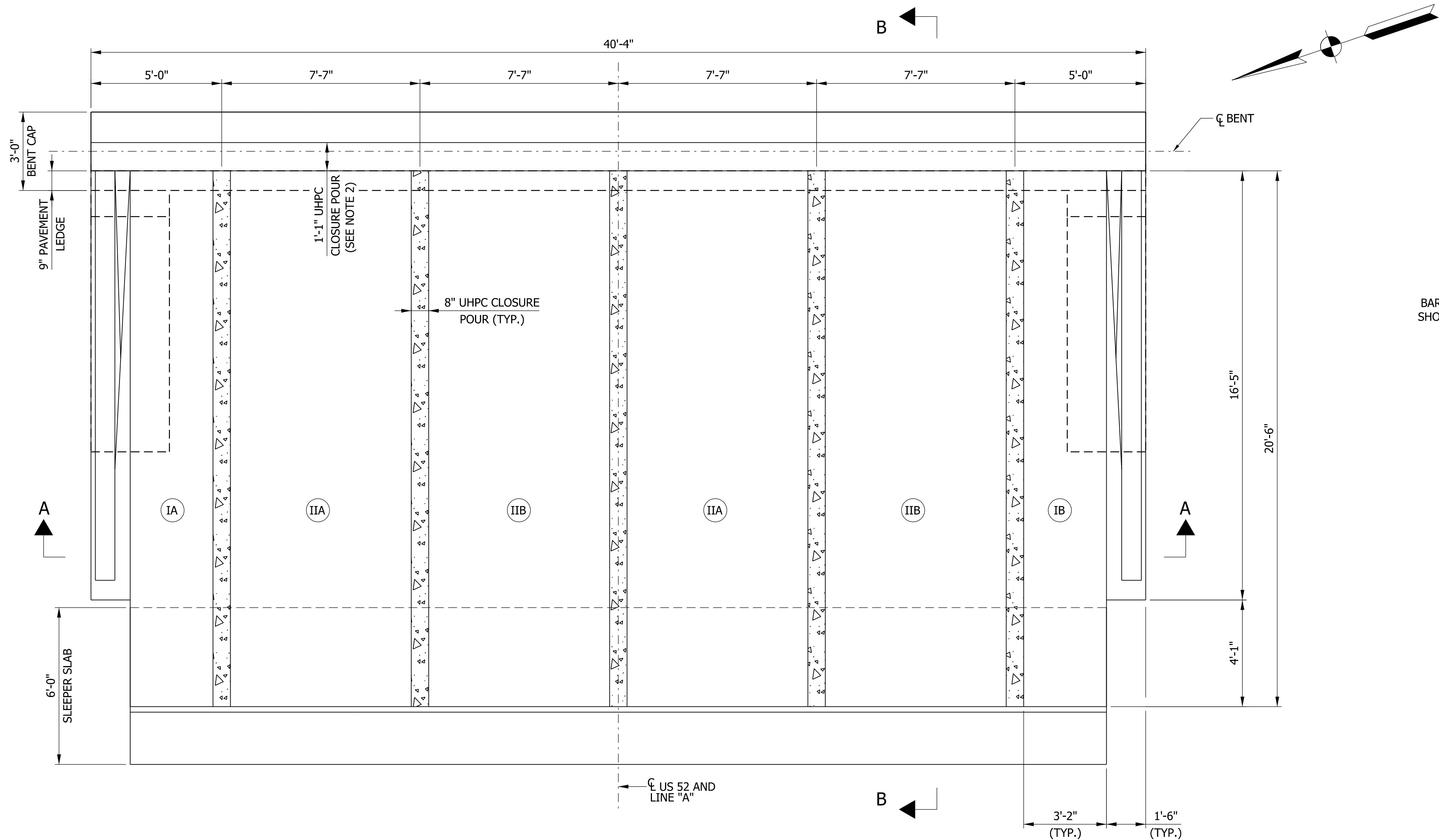
<u>BILL OF MATERIALS</u>			
FOR SUPERSTRUCTURE MODULES IIIA AND IIIB (QUANTITIES FOR ONE MODULE, TWO REQUIRED)			
EPOXY COATED REINFORCING			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
5701	53	5'-6"	
5702	106	3'-0"	
#5	8	35'-10"	
TOTAL #5			935
TOTAL EPOXY COATED REINFORCING BARS			935
CONCRETE			
RAILING, CONCRETE, FC			3.4 CYS
MISCELLANEOUS			
SURFACE SEAL (224 SFT)			1 LS

F.F. DENOTES FRONT FACE
R.F. DENOTES REAR FACE
E.F. DENOTES EACH FACE

1. FOR ADDITIONAL REINFORCING BAR NOTES AND BAR BENDING DETAILS, SEE STD. DWG. E 703-BRST-01.
2. ALL REINFORCING BARS SHALL BE EPOXY COATED, UNLESS NOTED OTHERWISE.
3. FOR ADDITIONAL CONCRETE BRIDGE RAILING DETAILS, SEE STD. DWG. E 706-BRSF-02 & 04.
4. FOR BRIDGE RAILING TRANSITION TYPE TFC DETAILS, SEE STD. DWG. E 706-TTFC-01 THRU -03.

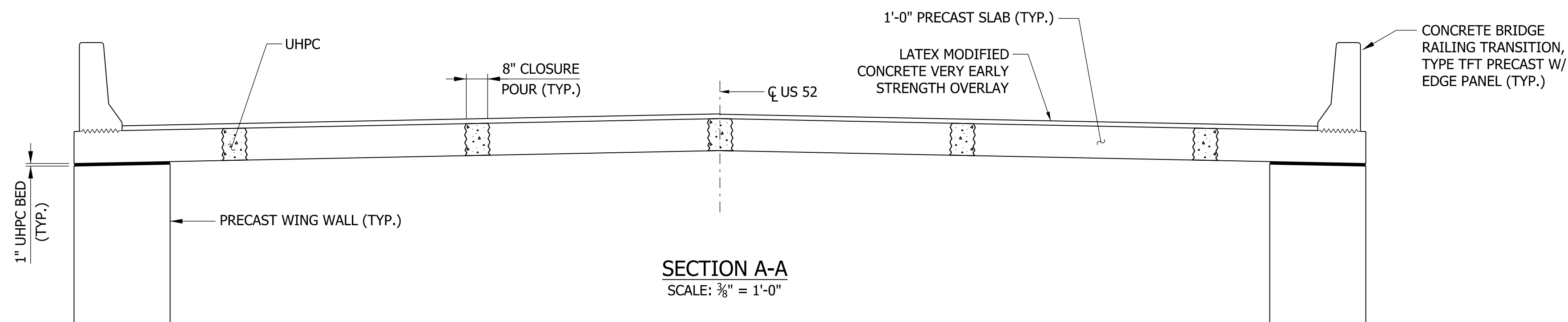
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE			
				N/A		052-70-10277			
				VERTICAL SCALE		DESIGNATION			
				N/A		1006266			
DESIGNED: _____ ALM _____		DRAWN: _____ ALM _____		RAILING DETAILS		SURVEY BOOK		SHEETS	
		ELECTRONIC				52	of	64	
CHECKED: _____ MEW _____		CHECKED: _____ MEW _____				CONTRACT		PROJECT	
						B-35450		1006266	

mwallace
3/27/2020 11:07:54 pm
model-Approach slab plan 01
file: c:\cadd\llo\pw\lrecket\greatakes\0195487\69847-s-br-appr01.dgn



LONGITUDINAL CLOSURE POUR DETAIL
SCALE: 1" = 1'-0"

APPROACH SLAB PLAN
WEST APPROACH SLAB SHOWN,
EAST APPROACH SLAB SAME BY ROTATION
SCALE: 3/8" = 1'-0"



SECTION A-A
SCALE: 3/8" = 1'-0"

NOTES:

- FOR SECTION B-B, SEE SHEET NO. 59.
- FOR SLAB CLOSURE POUR DETAILS, SEE SHEET NO. 38.

LEGEND

- UHPC DENOTES ULTRA HIGH PERFORMANCE CONCRETE
- IA DENOTES APPROACH SLAB MODULE TYPE IA.
- IB DENOTES APPROACH SLAB MODULE TYPE IB.
- IIA DENOTES APPROACH SLAB MODULE TYPE IIA.
- IIB DENOTES APPROACH SLAB MODULE TYPE IIB.

DRAFT
NOT FOR CONSTRUCTION

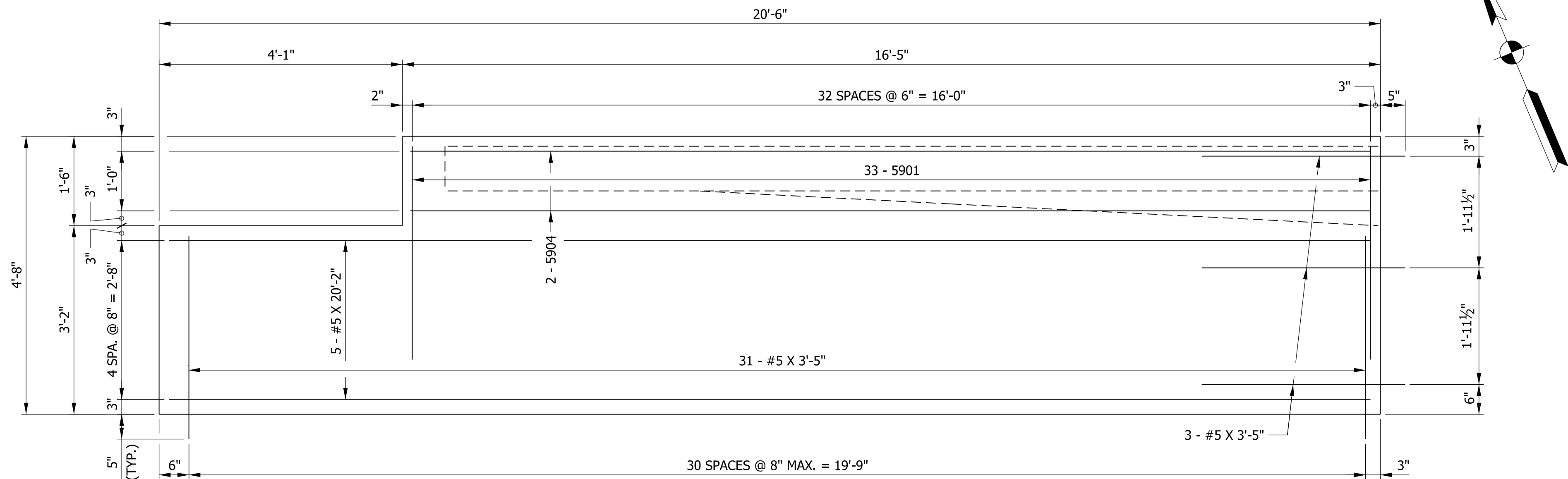
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ALM	DRAWN: ALM	
CHECKED: MEW	CHECKED: MEW	

INDIANA
DEPARTMENT OF TRANSPORTATION

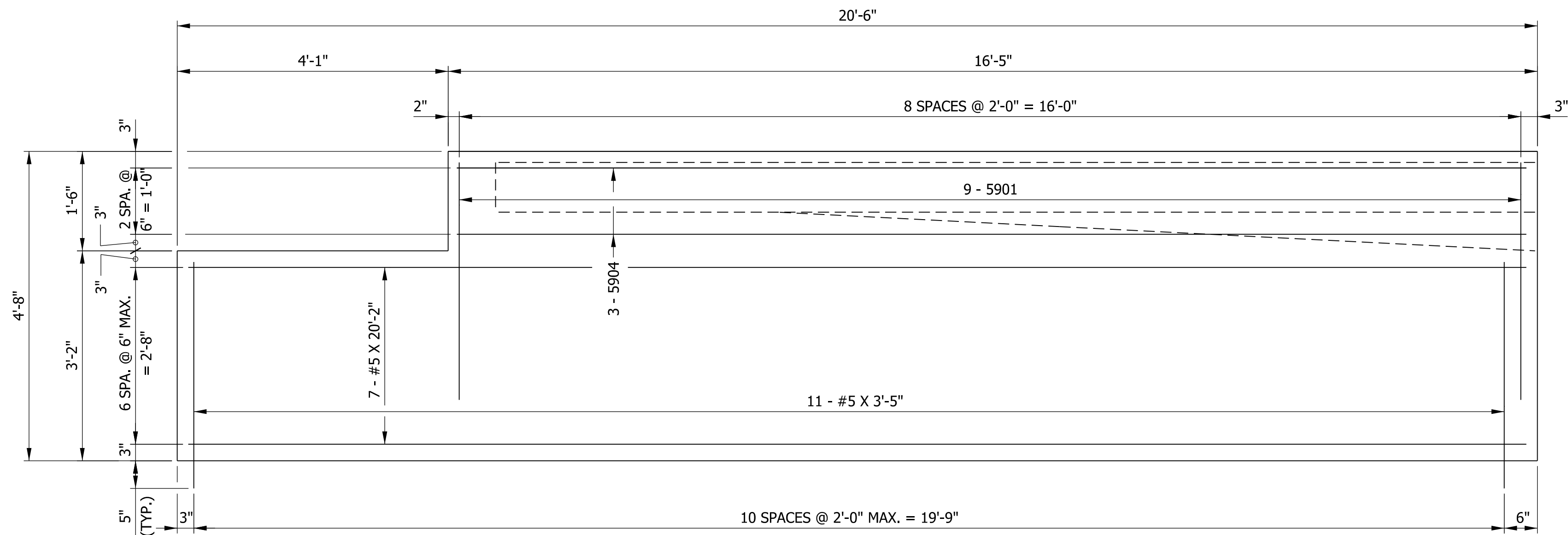
APPROACH SLAB DETAILS

HORIZONTAL SCALE	BRIDGE FILE	
AS NOTED	052-70-10277	
VERTICAL SCALE	DESIGNATION	
AS NOTED	1006266	
SURVEY BOOK	SHEETS	
ELECTRONIC	53	of 64
CONTRACT	PROJECT	
B-35450	1006266	

amatingwa
3/27/2020 6:39:02 pm
model-Approach slab exterior module 02
file: c:\addillo\pwl\checken\greatakes\00195487\69847-s-br-appr01.dgn

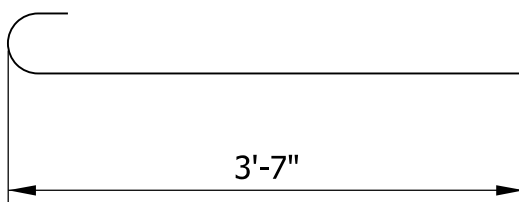


TYPE IA MODULE - TOP REINFORCEMENT
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR)

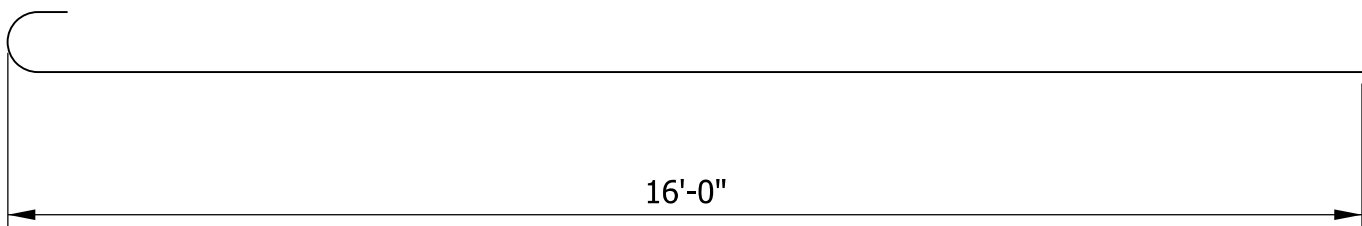


TYPE IA MODULE - BOTTOM REINFORCEMENT
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR)

BILL OF MATERIALS			
MODULE IA			
(QUANTITIES FOR ONE MODULE, TWO REQUIRED AT EACH R.C. APPROACH SLAB, FOUR REQUIRED TOTAL)			
EPOXY COATEDE REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
5901	42	4'-2"	
5904	5	16'-7"	
#5	12	20'-2"	
#5	45	3'-5"	
TOTAL #5			682
TOTAL EPOXY COATED REINFORCING BARS			682
CONCRETE			
REINFORCED CONCRETE BRIDGE APPROACH, 12"			11 SYS



5901 X 4'-2"



5904 X 16'-7"

NOTE TO REVIEWER

#5 BARS EXTENDING INTO CLOSURE POUR AT END OF DECK ARE SPACED TO AVOID CONFLICTS WITH BARS FROM THE BRIDGE DECK

NOTES:

1. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.

DRAFT
NOT FOR CONSTRUCTION

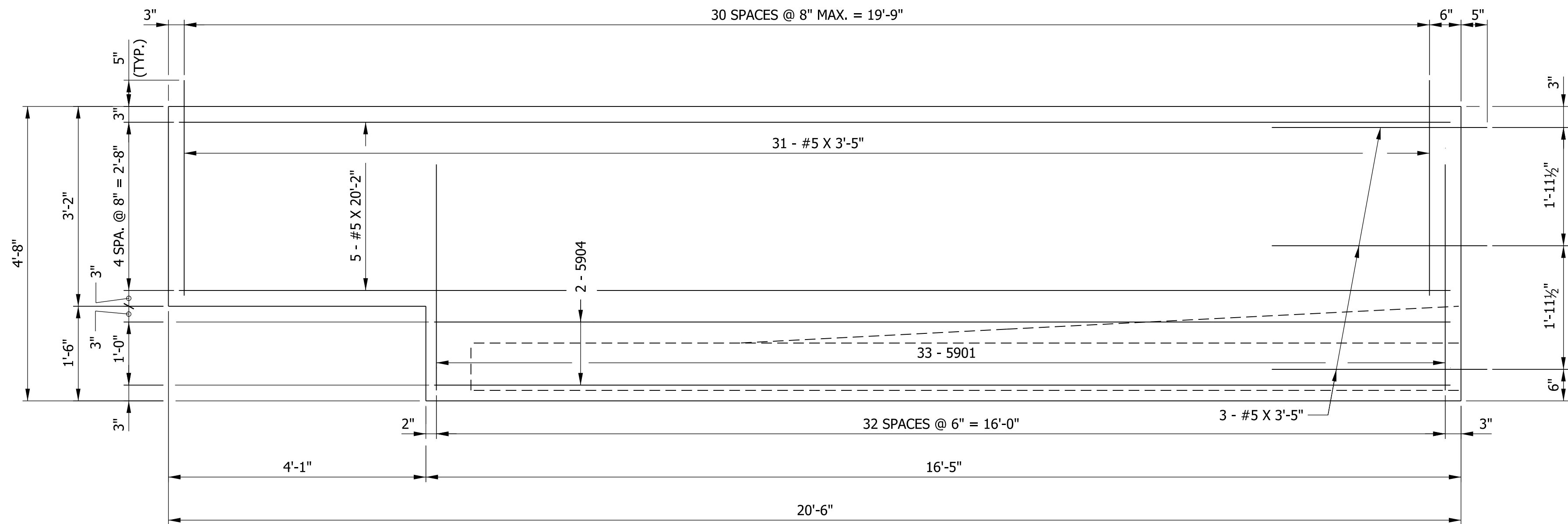
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____	ALM	DRAWN: _____	CLF		
CHECKED: _____	MEW	CHECKED: _____	MEW		

INDIANA
DEPARTMENT OF TRANSPORTATION

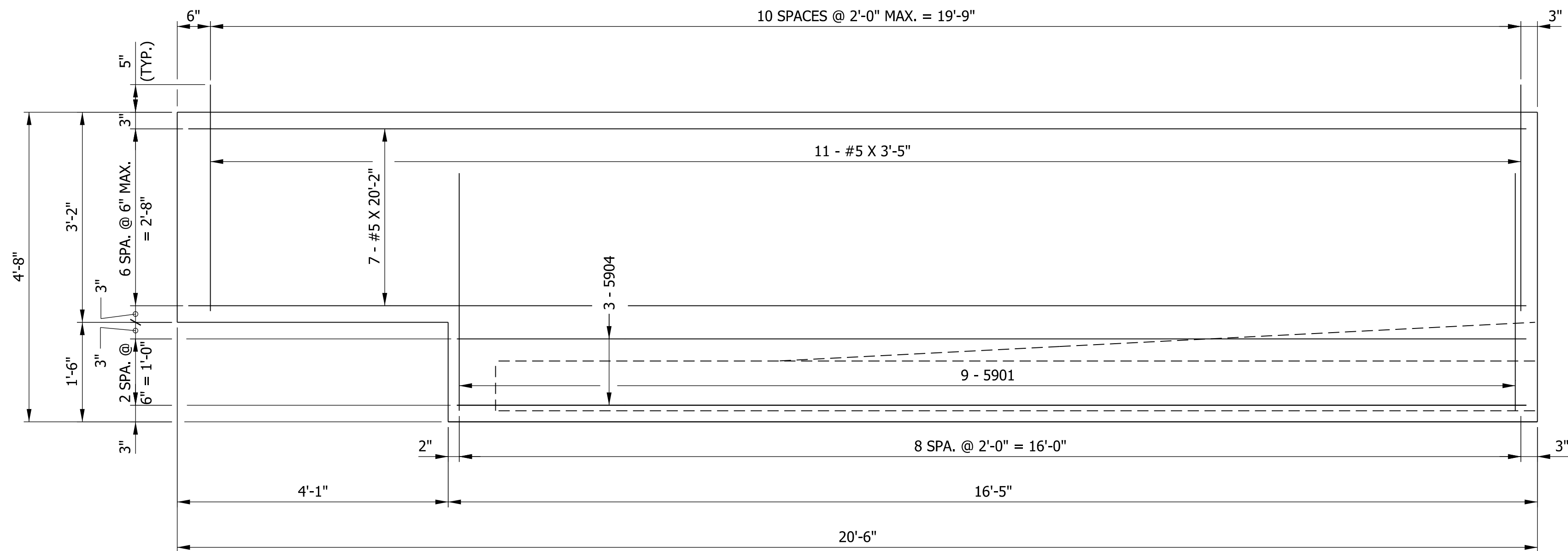
APPROACH SLAB DETAILS
MODULE IA

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{3}{4}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{4}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		54	of 64
CONTRACT		PROJECT	
B-35450		1006266	

amatingwa
3/27/2020 6:46:27 pm
model-Approach slab exterior module 03
file: c:\cadd\lpw\lrcckent\greatlakes\00195487\69847-s-br-appr01.dgn

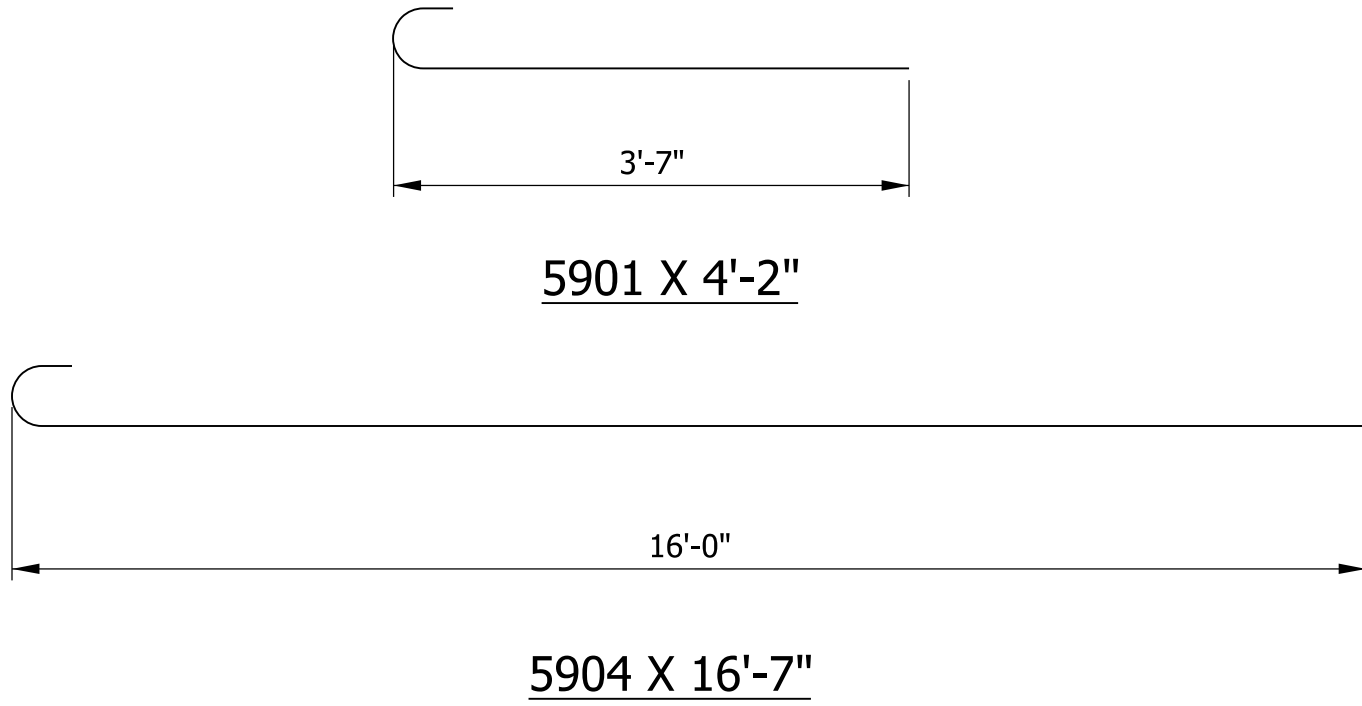


TYPE IB MODULE - TOP REINFORCEMENT
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR)



TYPE IB MODULE - BOTTOM REINFORCEMENT
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR)

BILL OF MATERIALS			
MODULE IB			
(QUANTITIES FOR ONE MODULE, TWO REQUIRED AT EACH R.C. APPROACH SLAB, FOUR REQUIRED TOTAL)			
EPOXY COATED REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
5901	42	4'-2"	
5904	5	16'-7"	
#5	12	20'-2"	
#5	45	3'-5"	
TOTAL #5			682
TOTAL EPOXY COATED REINFORCING BARS			682
CONCRETE			
REINFORCED CONCRETE BRIDGE APPROACH, 12"			11 SYS



NOTE TO REVIEWER
#5 BARS EXTENDING INTO CLOSURE POUR AT END OF DECK ARE SPACED TO AVOID CONFLICTS WITH BARS FROM THE BRIDGE DECK

NOTES:
1. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.

DRAFT
NOT FOR CONSTRUCTION

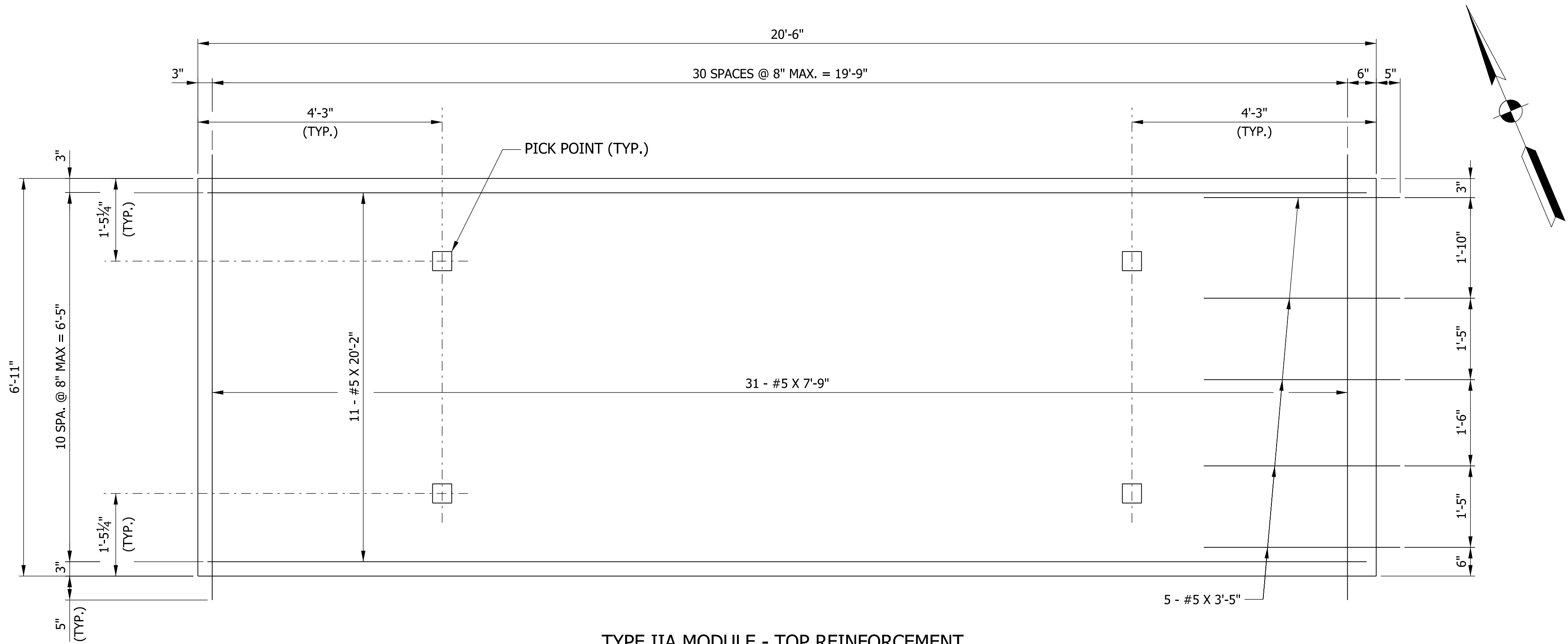
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ ALM _____	DRAWN: _____ CLF _____		
CHECKED: _____ MEW _____	CHECKED: _____ MEW _____		

INDIANA
DEPARTMENT OF TRANSPORTATION

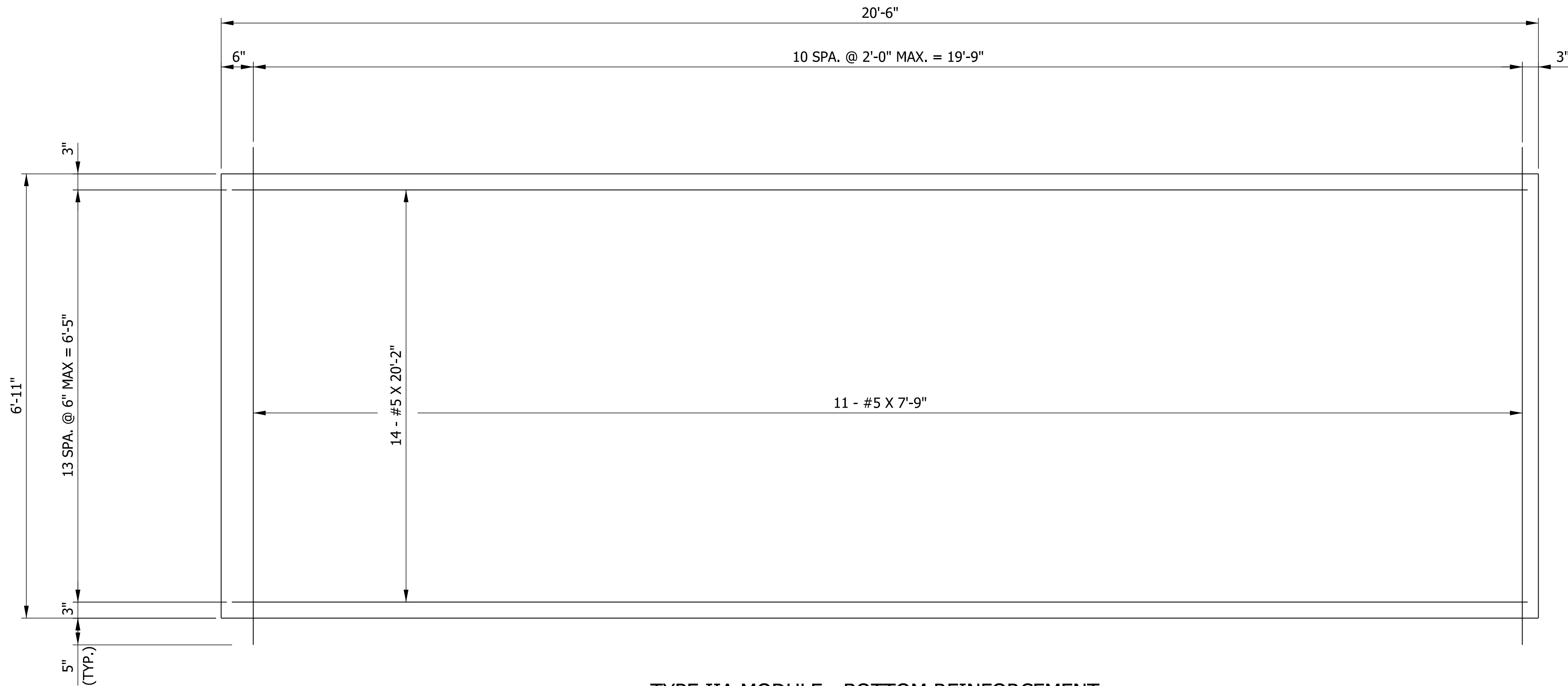
APPROACH SLAB DETAILS
MODULE IB

HORIZONTAL SCALE 3/4" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 3/4" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 55 of 64	
CONTRACT B-35450		PROJECT 1006266	

amatingwa
3/27/2020 6:47:12 pm
model-Approach slab interior module 04
file: c:\cadd\ltp\lntecten\greatakes\00195487\69847-s-br-appr01.dgn



TYPE IIA MODULE - TOP REINFORCEMENT
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR)



TYPE IIA MODULE - BOTTOM REINFORCEMENT
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR)

BILL OF MATERIALS			
MODULE IIA			
(QUANTITIES FOR ONE MODULE, TWO REQUIRED AT EACH R.C. APPROACH SLAB, FOUR REQUIRED TOTAL)			
EPOXY COATED REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
#5	25	20'-2"	
#5	42	7'-9"	
#5	5	3'-5"	
TOTAL #5			883
TOTAL EPOXY COATED REINFORCING BARS			883
CONCRETE			
REINFORCED CONCRETE BRIDGE APPROACH, 12"			16 SYS

NOTE TO REVIEWER

#5 BARS EXTENDING INTO CLOSURE POUR AT END OF DECK ARE SPACED TO AVOID CONFLICTS WITH BARS FROM THE BRIDGE DECK

NOTES:

1. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____	ALM _____	DRAWN: _____	CLF _____		
CHECKED: _____	MEW _____	CHECKED: _____	MEW _____		

INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
MODULE IIA

HORIZONTAL SCALE 3/4" = 1'-0"		BRIDGE FILE 052-70-10277	
VERTICAL SCALE 3/4" = 1'-0"		DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC		SHEETS 56 of 64	
CONTRACT B-35450		PROJECT 1006266	

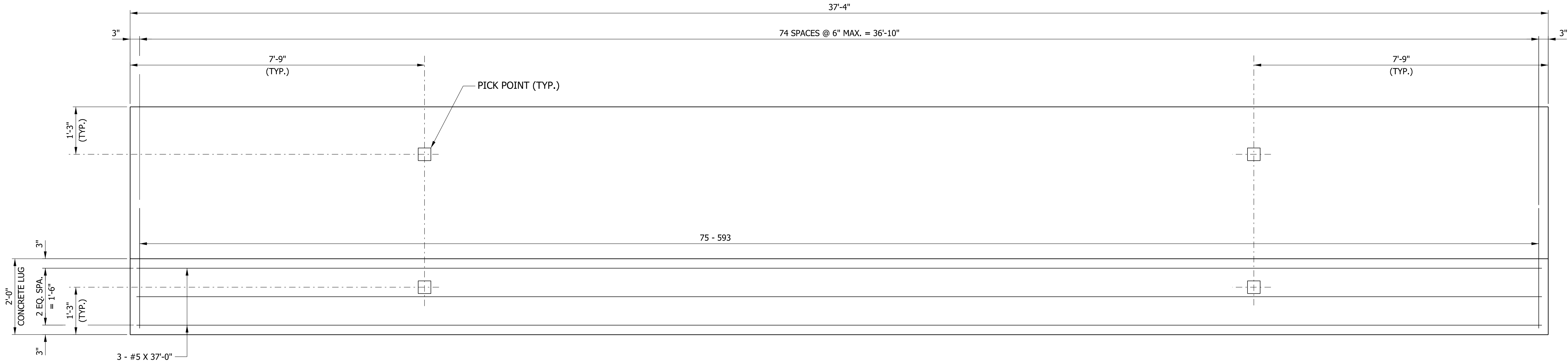


NOTE TO REVIEWER
#5 BARS EXTENDING INTO CLOSURE POUR AT END OF DECK ARE SPACED TO AVOID CONFLICTS WITH BARS FROM THE BRIDGE DECK

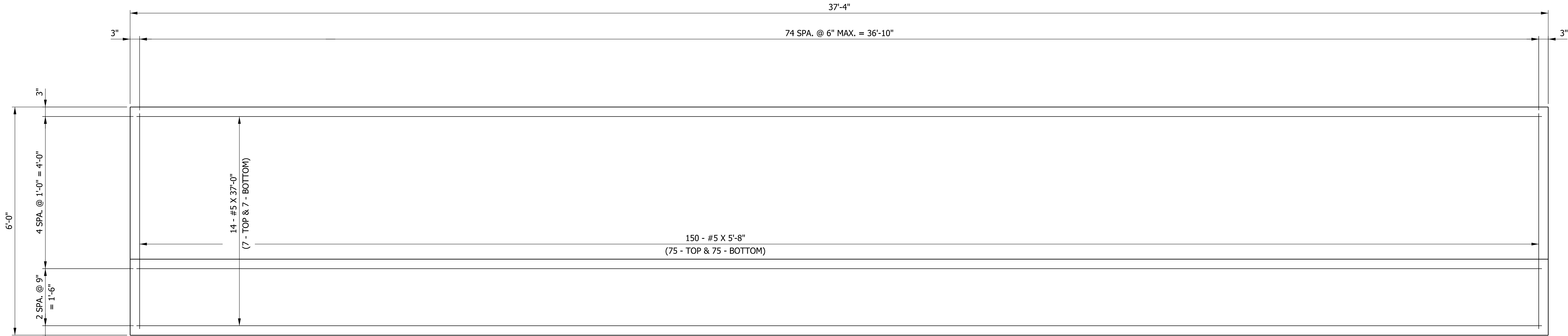
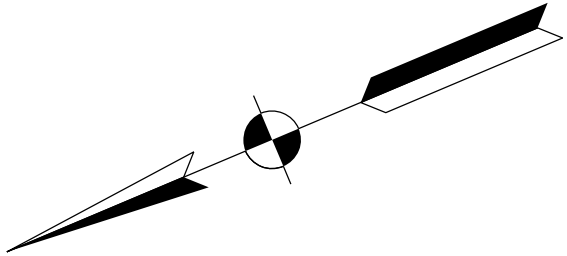
NOTES:

1. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LIFT CONFIGURATION DESIGN AND CALCULATIONS. SEE SPECIAL PROVISIONS.

amatingwa
3/27/2020 6:50:42 pm
model-Approach slab sleeper module 06
file: c:\cadd\lpw\larcen\greatakes\00195487\69847-s-br-appr01.dgn



SLEEPER SLAB MODULE - CONCRETE LUG REINFORCEMENT
(WEST SLEEPER SLAB SHOWN, EAST SLEEPER SLAB SIMILAR)



SLEEPER SLAB MODULE - TOP AND BOTTOM SLAB REINFORCEMENT
(WEST SLEEPER SLAB SHOWN, EAST SLEEPER SLAB SIMILAR)

NOTES:

1. ALTERNATE LIFT CONFIGURATION MAY BE PROPOSED BY THE CONTRACTOR. SEE SPECIAL PROVISIONS.
2. REINFORCEMENT SHOWN FOR INFORMATION ONLY. REINFORCEMENT IS INCLUDED IN TERMINAL JOINT, TYPE HMA. FOR MORE DETAILS, SEE 503-R-692d.
3. FOR BILL OF MATERIALS, BAR BENDING DIAGRAM AND SECTION THROUGH SLEEPER SLAB, SEE SHEET NO. 59.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____	ALM _____	DRAWN: _____	CLF _____
CHECKED: _____	MEW _____	CHECKED: _____	MEW _____

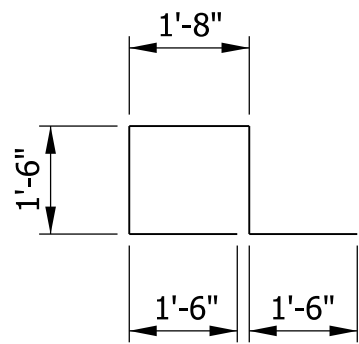
INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
SLEEPER SLAB MODULE

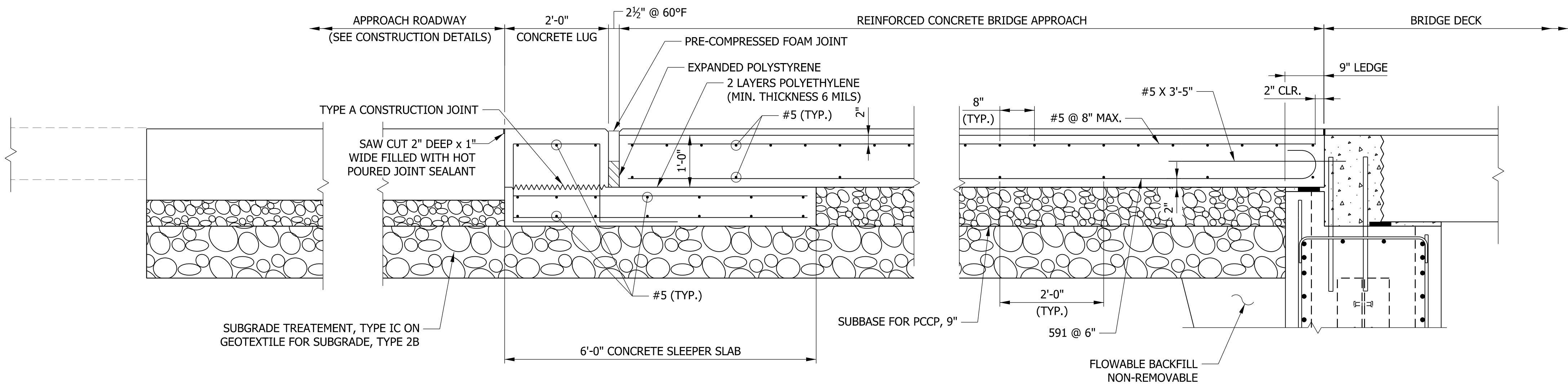
HORIZONTAL SCALE		BRIDGE FILE	
$\frac{3}{4}"=1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{4}"=1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		58	of 64
CONTRACT		PROJECT	
B-35450		1006266	

BILL OF MATERIALS SLEEPER SLAB MODULE *			
(QUANTITIES FOR ONE MODULE, ONE REQUIRED AT EACH R.C. APPROACH SLAB, TWO REQUIRED TOTAL)			
REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH (FT-IN.)	WEIGHT (LBS.)
593	75	7'-8"	
#5	14	37'-0"	
#5	150	5'-8"	
TOTAL #5			2027
TOTAL REINFORCING BARS			2027

* FOR INFORMATION ONLY. PAID FOR WITH SLEEPER SLAB.



593 x 7'-8"



SECTION B-B

- NOTE:
- USE FLOWABLE BACKFILL TO PROVIDE FLUSH SURFACE FOR PLACEMENT OF APPROACH SLAB.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____	ALM	DRAWN: _____	CLF		
CHECKED: _____	MEW	CHECKED: _____	MEW		

INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS

HORIZONTAL SCALE		BRIDGE FILE	
$\frac{3}{4}" = 1'-0"$		052-70-10277	
VERTICAL SCALE		DESIGNATION	
$\frac{3}{4}" = 1'-0"$		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		59	of 64
CONTRACT		PROJECT	
B-35450		1006266	

ITEM	STRUCTURE QUANTITIES																							
	PAVEMENT REMOVAL	PRESENT STRUCTURE, REMOVE	EXCAVATION, FOUNDATION, UNCLASSIFIED	SUBGRADE TREATMENT, TYPE 1C	B BORROW	FLOWABLE BACKFILL, NON-REMOVABLE	GEOTEXTILE FOR SUBGRADE, TYPE 2B	SUBBASE FOR PCCP	TERMINAL JOINT, TYPE HMA	BARRIER, DELINEATOR	REINFORCED CONCRETE BRIDGE APPROACH, 12 IN.	RIPRAP, CLASS 1	RIPRAP, REVETMENT	GEOTEXTILE FOR RIPRAP TYPE 1A	FIELD OFFICE, A	DYNAMIC PILE LOAD TEST	TEST PILE, DYNAMIC, PRODUCTION	TEST PILE, DYNAMIC, RESTRIKE	PILE SHOE, HP 12 X 53	PILE, STEEL H HP 12 X 53	ULTRA HIGH PERFORMANCE CONCRETE	CONCRETE, A, SUBSTRUCTURE, PRECAST	CONCRETE, B, FOOTINGS, PRECAST	CONCRETE, C, SUBSTRUCTURE, PRECAST
	SYS	LS	CYS	SYS	CYS	CYS	SYS	CYS	LFT	EACH	SYS	TON	TON	SYS	MOS	EACH	LFT	EACH	EACH	LFT	CYS	CYS	CYS	CYS
STRUCTURE NO. 052-70-10277																								
SLAB																					35.6			
END BENT			162			25						174		436		2	122	2	8	244	1.0			27.2
PIER			185		121											2	146	2	16	1022	20.0	53.8	4.4	
WINGWALL			8		4	10													8	488	1.8			12
RAILING										10											0.8			
RCBA	110			172			172	28			172										5.2			
MISCELLANEOUS		1							76			304	63	104	3									
TOTALS	110	1	355	172	125	35	172	28	76	10	172	478	63	540	3	4	268	4	32	1754	64.4	53.8	4.4	38.8

* FOR INFORMATION ONLY. ESTIMATED QUANTITY PAID FOR AS LUMP SUM.

ITEM	STRUCTURE QUANTITIES											
	SELF-CONSOLIDATING CONCRETE	REINFORCING BARS	REINFORCING BARS, EPOXY COATED	CONCRETE, C, SUPERSTRUCTURE, PRECAST	RAILING, CONCRETE FC	CONCRETE BRIDGE RAILING TRANSITION, TFC	SURFACE SEAL *	BRIDGE DECK OVERLAY, BUDGET *		BRIDGE DECK OVERLAY, LMC-VE	TRANSVERSE GROOVING	PRE-COMPRESSED FOAM JOINT
								ADDITIONAL OVERLAY	ADDITIONAL SURFACE PREP			
	CYS	EACH	LBS	CYS	CYS	EACH	SFT	CYS	LFT	SYS	LFT	LFT
STRUCTURE NO. 052-70-10277												
SLAB			40698	193.0			436	2.3	0	380	380	
END BENT	3.2		5256				296					
PIER	18.4	14826										
WINGWALL	4.0		2876				96					
RAILING			4710		17.2	4.0	1576					
RCBA			9792							172	172	
MISCELLANEOUS			4618									76
TOTALS	25.6	14826	67950	193.0	17.2	4.0	2404	2	0	552	552	76

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ RRJ	DRAWN: _____ RRJ	
CHECKED: _____ MEW	CHECKED: _____ MEW	

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY

HORIZONTAL SCALE	BRIDGE FILE	
N/A	052-70-10277	
VERTICAL SCALE	DESIGNATION	
N/A	1006266	
SURVEY BOOK	SHEETS	
ELECTRONIC	60	of 64
CONTRACT	PROJECT	
B-35450	1006266	

amatingwa
3/27/2020 10:38:56 pm
model-Road
file: c:\cadd\ltpw\larccken\greatlakes\0195487\69847-s-br-sum01.dgn

PAVEMENT QUANTITIES AND APPROACH TABLE																																						
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE		EXCAVATION		CLEAR ZONE AT DRIVE	HMA FOR APPROACHES				HMA FOR ROADS						SEAL COAT TYPE	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53		COMPACTED AGGREGATE FOR SURFACE NO.73		SUBGRADE TREATMENT, TYPE IC	GEOTEXTILE FOR SUBGRADE, TYPE 2B	MILLING, ASPHALT, 1 1/2 IN.	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	LIQUID ASPHALT SEALANT	REMARKS	
						COMPACTED AGGREGATE BASE	HMA	PCCP						SURFACE TYPE —	INTERMD TYPE —	BASE TYPE —		SURFACE QC/QA, 2, 64	INTERMD QC/QA, 2, 64	BASE QC/QA 2, 64																		
		1 %	2 %	CUT CYS	FILL CYS	LBS PER SYD				LBS PER SYD						PRIME COAT	TACK COAT	DEPTH		DEPTH																		
						TONS	TONS	TONS	TONS	TONS	TONS	TONS		TONS	TONS			TONS	TONS	6 IN. CYS	CYS	TONS	TONS															
STA. 456+53.54 TO 457+48.54 AND STA. 458+85.46 TO 460+50.46		37.33	260								368						86	77	339							1120	102					320	320	480	780	240	780	
TOTALS		40.33	91.5								368						86	77	339							1120	102					320	320	480	780	240	780	

GUARDRAIL SUMMARY TABLE																												
LOCATION						MGS W-BEAM GUARDRAIL LENGTH										GUARDRAIL FLARE RATE	GUARDRAIL END TREATMENT TYPE OS	GUARDRAIL END TREATMENT TYPE MS	GUARDRAIL TRANSITION TYPE TGB	W-BEAM STANDARD POST AT _____ SPA.	CURVED W-BEAM GUARDRAIL SYSTEM				GUARDRAIL REMOVE	GUARDRAIL RESET	IMPACT ATTENUATOR TYPE _____	REMARKS
FROM STATION	TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	STANDARD POST AT 6 FT 3 IN. SPA.	STANDARD POST AT 3 FT 1.5 IN. SPA.	DOUBLE FACED AT 6 FT 3 IN. SPA.	DOUBLE FACED AT 3 FT 1.5 IN. SPA.	HEIGHT TRANSITION	GUARDRAIL TRANSITION WITH CURB	GUARDRAIL TRANSITION WITHOUT CURB	STRUCTURE TOP-MOUNTED POST	CABLE TERMINAL ANCHOR	SHOP CURVED AT _____ FT. SPA.						LONG-SPAN GUARDRAIL	TERMINAL SYSTEM	CONNECTOR SYSTEM					
						LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH	EACH	LFT						EACH							
					X	75					1							1							380			
455+90.56	457+58.08					37.5					1							1							380			
456+28.06	457+58.08	X				37.5					1							1							120			
458+75.92	460+05.94				X	75					1							1							100			
458+75.92	460+43.44	X																										
TOTALS						225					4							4							980			

DRAFT
NOT FOR CONSTRUCTION

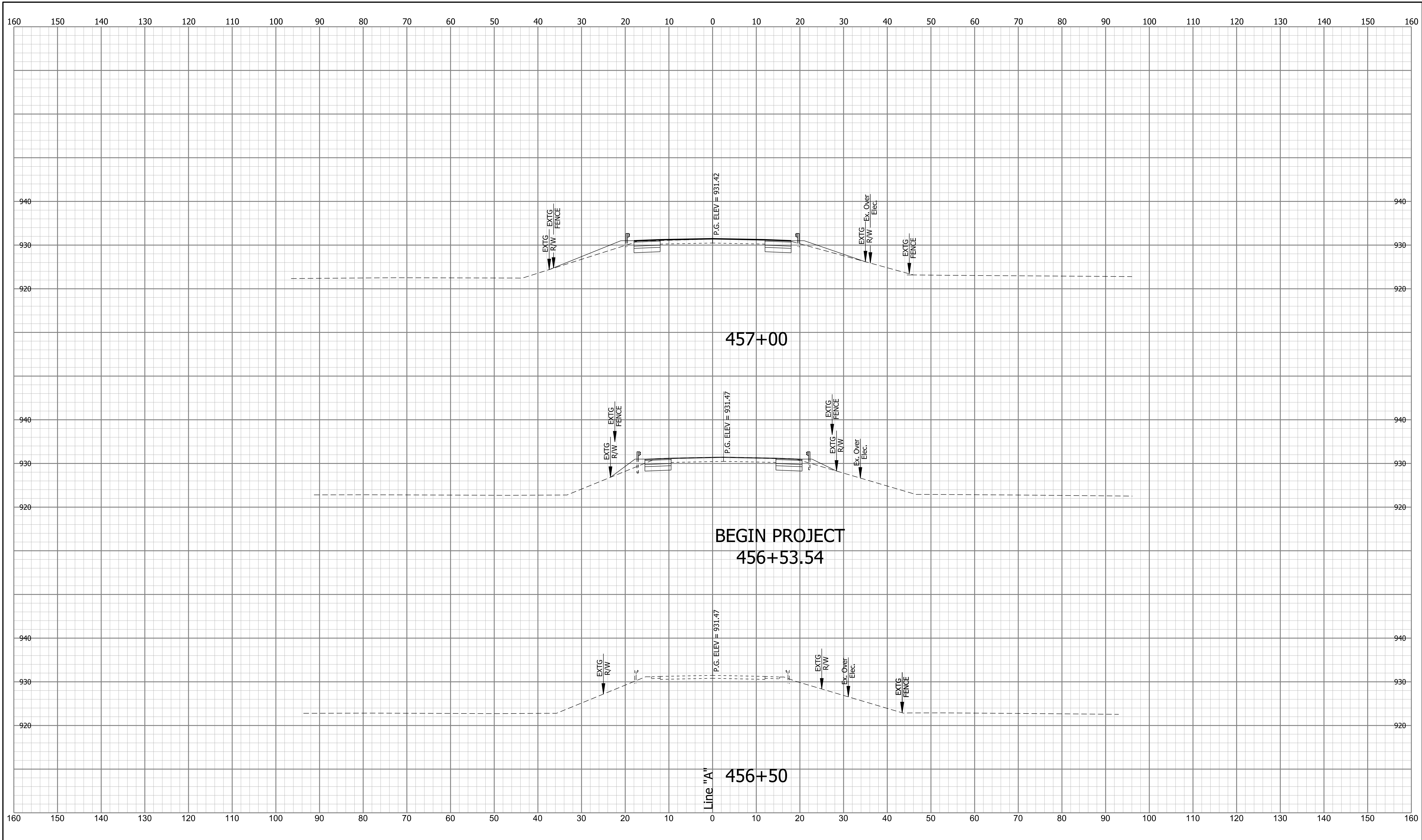
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: _____ RRJ		DRAWN: _____ RRJ			
CHECKED: _____ AKP		CHECKED: _____ MEW			

INDIANA
DEPARTMENT OF TRANSPORTATION

ROAD SUMMARY

HORIZONTAL SCALE		BRIDGE FILE	
N/A		052-70-10277	
VERTICAL SCALE		DESIGNATION	
N/A		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC		61	of 64
CONTRACT		PROJECT	
B-35450		1006266	

apxairl
3/27/2020 11:19:32 pm
model: Default
file: c:\cad\dlb\pwl\arneck\lgreatakes\0195487\69847-s-rd\ps01.dgn



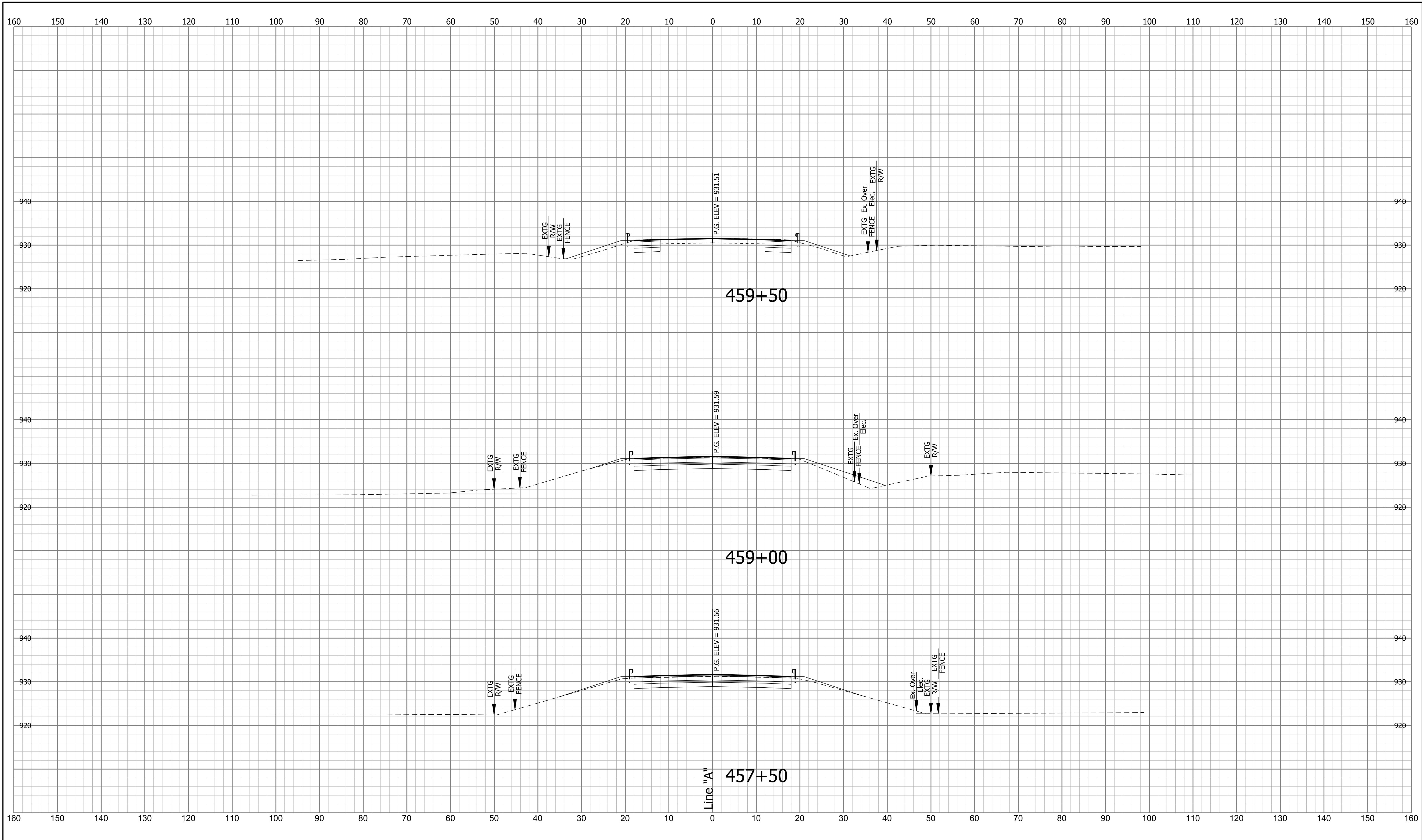
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ JWC	DRAWN: _____ CVH	
CHECKED: _____ MSS	CHECKED: _____ JWC	

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "A"	

HORIZONTAL SCALE 1"=10'	BRIDGE FILE 052-70-10277	
VERTICAL SCALE 1"=10'	DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC	62	of 64
CONTRACT B-35450	PROJECT 1006266	

apxairl
3/27/2020 11:19:33 pm
model: Default
file: c:\cad\dlb\pwl\arcken\greatakes\0195487\69847-s-rd-rps01.dgn



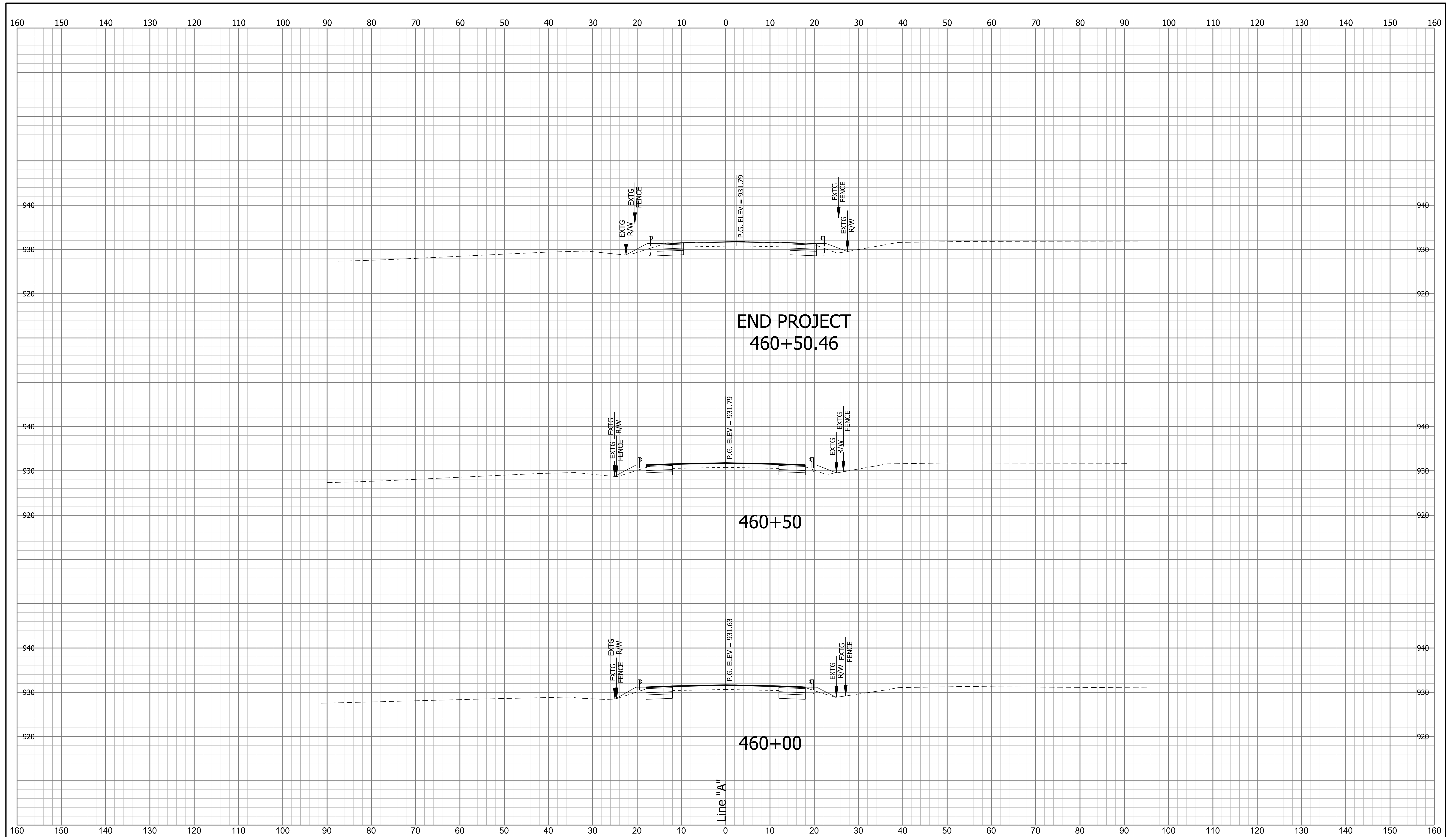
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWC	DRAWN: CVH	
CHECKED: MSS	CHECKED: JWC	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE 052-70-10277	
VERTICAL SCALE 1"=10'	DESIGNATION 1006266	
SURVEY BOOK ELECTRONIC	63	SHEETS of 64
CONTRACT B-35450	PROJECT 1006266	



DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE
	DESIGNED: JWC	DRAWN: CVH	
	CHECKED: MSS	CHECKED: JWC	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE		BRIDGE FILE	
1"=10'		052-70-10277	
VERTICAL SCALE		DESIGNATION	
1"=10'		1006266	
SURVEY BOOK		SHEETS	
ELECTRONIC	64	of	64
CONTRACT	PROJECT		
B-35450	1006266		