



ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

March 9, 2020

Please find the following addendum to the below mentioned BID.

Addendum No.: 1

Bid#: 20-6-2

Project Name: I-10 Service Road Bridge Replacements

Bid Due Date: Tuesday, March 31, 2020

GENERAL INFORMATION:

1. At Section 12- Final Plans, **ADD** Plan Sheets 001-104. (Attached)

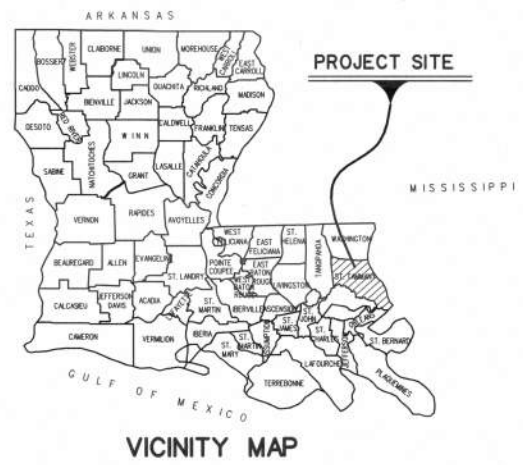
ATTACHMENTS:

1. **Section 12- Final Plans, Pages 001-104.pdf**

End of Addendum # 1

I-10 SERVICE RD. BRIDGE REPLACEMENTS

SLIDELL, LOUISIANA



APPROVED

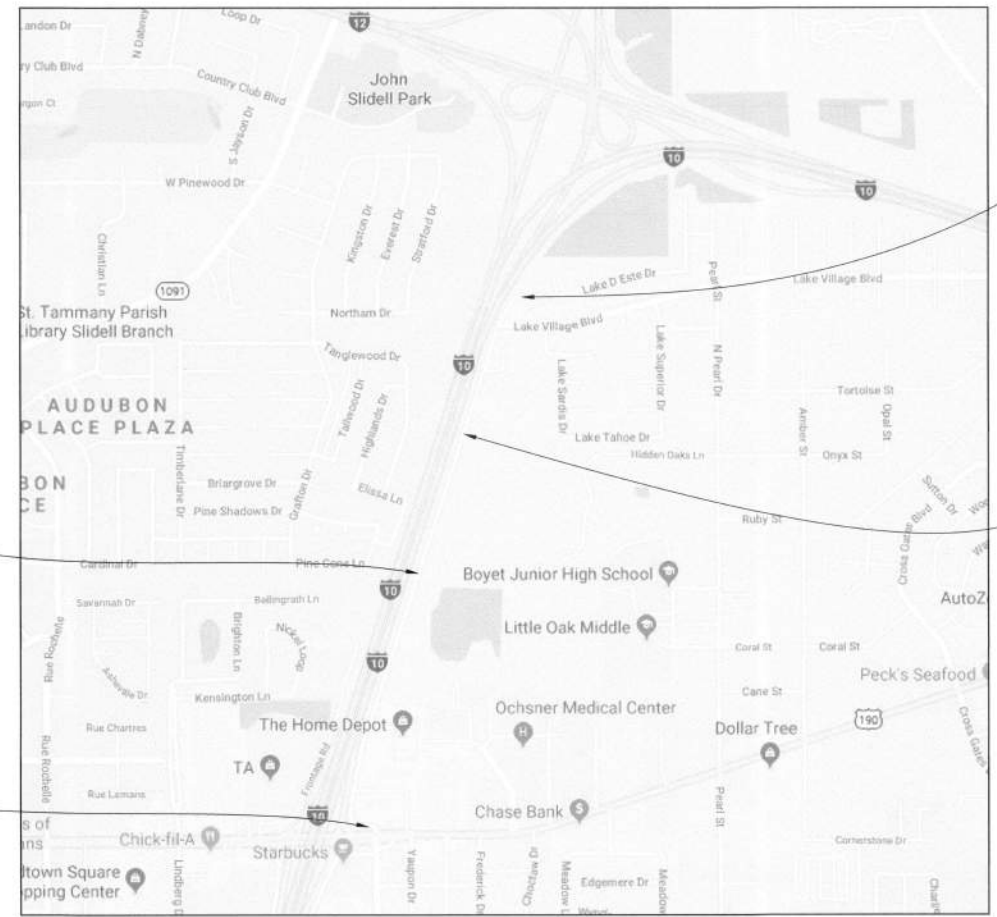
G.E.C., INC.
 DATE 2-5-20

END PROJECT
STA. 137+06.00

BRIDGE SITE: 100'
STA. 120+64.00 TO
STA. 121+64.00
FRENCH BRANCH CANAL

BRIDGE SITE: 100'
STA. 104+88.00 TO
STA. 105+88.00
REINE CANAL

BEGIN PROJECT
STA. 77+35.00



LAYOUT MAP

SCALE: 1 INCH = 1000 FEET



INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LAYOUT MAP
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3	SUMMARY OF ESTIMATED QUANTITIES
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7	TBMs AND CONTROL POINTS
8-9	DRAINAGE MAP
10	SUMMARY OF DRAINAGE STRUCTURES
11	SUGGESTED TEMPORARY EROSION CONTROL
12	DETOUR SIGNING AND MAP
13-14	GUARDRAIL LAYOUT
15	SPECIAL DETAIL: SHOULDER WEDGE DETAIL
16	SPECIAL DETAIL: SETSD1
17	SPECIAL DETAIL: SETSD2
18	SPECIAL DETAIL: PAVEMENT PATCHING DETAIL

BRIDGE PLANS

101-102	GENERAL BRIDGE PLAN
103-106	90° CROSSING TWO WAY TANGENT
107-110	60° CROSSING TWO WAY TANGENT
111	PRE-CAST PRESTRESSED CONCRETE PILES
112-113	PILE DATA TABLE

STANDARD PLANS	REV. DATE
301-302	BM-01 (2 SHEETS) 8/22/2007
303	CB-01 11/2/2000
304-305	EC-01 (2 SHEETS) 10/1/2008
306-316	GR-MASH-ON (11 SHEETS) 1/3/2019
317	GR-MASH-OFF 1/3/2019
318	HS-03 4/7/2014
319-324	MC-01 (6 SHEETS) 5/25/2018
325	MH-06 5/18/2011
326	PM-01 2/28/2019
327-330	TTC-00 (A-D) (4 SHEETS) 7/2/2018
331	TTC-03 7/2/2018
332	TTC-04 7/2/2018
333	TTC-16 7/2/2018
334	DW-02 11/7/2017
335-336	CONC. SURFACE FINISH (2 SHEETS)
337	FR-01 5/30/2017
338	SWBS-100 3/6/2013
339	YP-01 8/28/2000
340	BR-01 7/18/2016

CROSS SECTIONS

401-409	CROSS SECTIONS
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TOTAL SHEETS = 81

DESIGN SPEED = 40 MPH
CLASSIFICATION = URBAN COLLECTOR

DATE	REVISION	DATE	RECOMMENDED	DATE	APPROVED

SCHEDULE OF REVISIONS

TYPE OF CONSTRUCTION
ASPHALT CONCRETE ROADWAY, BASE COURSE, LIME TREATMENT, GUARDRAIL, INCIDENTAL CONCRETE, EMBANKMENT, DRAINAGE STRUCTURES, CONCRETE SLAB SPAN BRIDGES, MILLING AND OVERLAY

DATUM USED
HORIZONTAL: NAD 83, SOUTH ZONE 1702
VERTICAL: NAVD 88

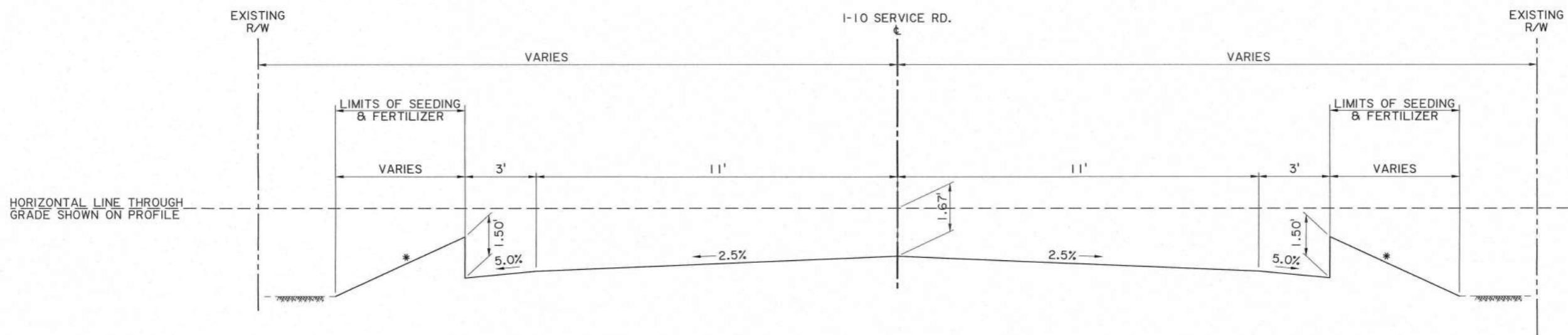
STANDARD SPECIFICATIONS
THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN.



2-5-20

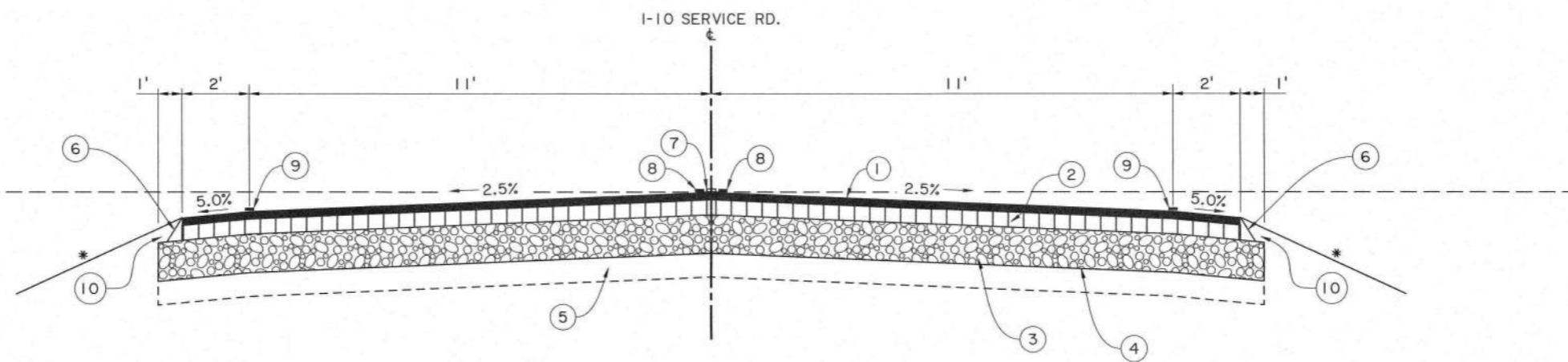
SHEET NUMBER	1	PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
DESIGNED	C. NIPPER	PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
CHECKED	J. LOHMANN	PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
DETAILED	C. NIPPER	PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
CHECKED	J. LOHMANN	PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
SERIES NUMBER		PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
NO.		PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
DATE		PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
REVISION OR CHANGE ORDER DESCRIPTION		PARISH	ST. TAMMANY	CONTROL SECTION	PROJECT
TITLE SHEET AND LAYOUT MAP I-10 SERVICE RD. BRIDGE REPLACEMENTS					

G:\Projects\St Tammany\I-10 Service Road Bridge Replacements\06 Design\Road\001_titlesheet REVISED.dgn
 2/5/2020 09:18
 FINAL PLANS



TYPICAL GRADING SECTION (N.T.S.)
 APPLIES STA. 103+45.00 TO STA. 104+78.00
 APPLIES STA. 105+98.00 TO STA. 107+00.00
 APPLIES STA. 118+40.00 TO STA. 120+54.00
 APPLIES STA. 121+74.00 TO STA. 123+41.00

* MATCH EXISTING SLOPE (NOT STEEPER THAN 3:1).
 2:1 SLOPE PERMITTED BEHIND GUARDRAIL WHERE
 NEEDED TO REMAIN WITHIN EXISTING RIGHT-OF-WAY
 LIMITS.

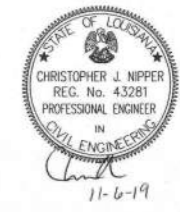


NOTE:
 TO STAY WITHIN EXISTING RIGHT-OF-WAY LIMITS,
 AS WAS REQUESTED BY THE PARISH,
 THE AASHTO SUGGESTED CLEAR ZONE OF 14'
 WAS NOT ABLE TO BE ACHIEVED

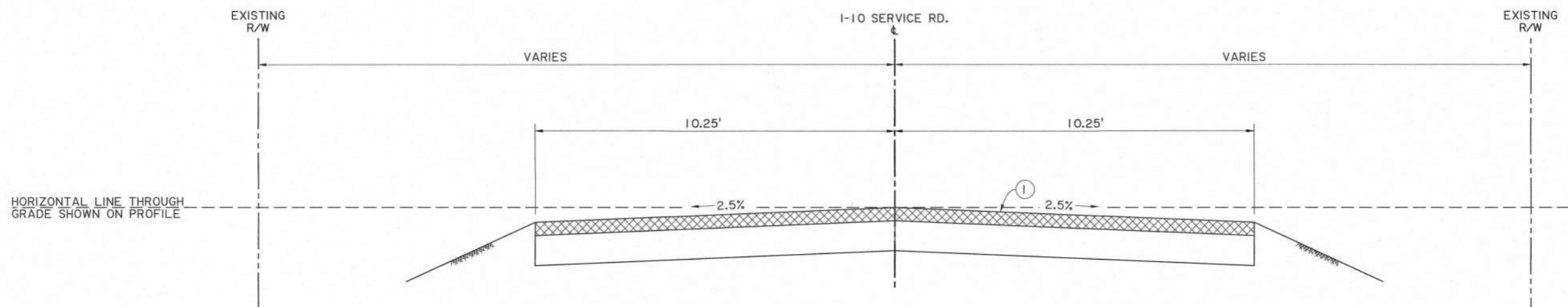
LEGEND

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)
- ② 4" ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- ③ 14" CLASS II BASE COURSE
- ④ GEOTEXTILE FABRIC (TO BE INCLUDED IN COST OF CLASS II BASE COURSE)
- ⑤ 6" TYPE E LIME TREATMENT
- ⑥ SHOULDER WEDGE
- ⑦ REFLECTORIZED MARKERS (TWO-WAY YELLOW @ 20' O.C.)
- ⑧ 4" YELLOW PAVEMENT STRIPING
- ⑨ 4" WHITE PAVEMENT STRIPING
- ⑩ EMBANKMENT

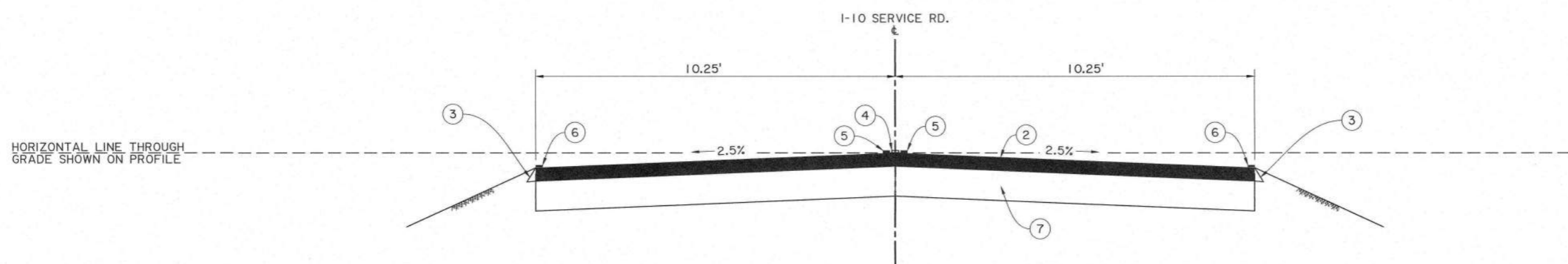
TYPICAL FINISHED SECTION (N.T.S.)
 APPLIES STA. 103+45.00 TO STA. 104+78.00
 APPLIES STA. 105+98.00 TO STA. 107+00.00
 APPLIES STA. 118+40.00 TO STA. 120+54.00
 APPLIES STA. 121+74.00 TO STA. 123+41.00



SHEET NUMBER	2
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
PARISH	ST. TAMMANY
CONTROL SECTION	
PARISH PROJECT	PW18000146
Detailed	C. NIPPER
Checked	J. LOHMANN
Series Number	
Revision or Change Order Description	
By	
Date	
No.	
TYPICAL SECTION AND DETAILS I-10 SERVICE RD. BRIDGE REPLACEMENTS	



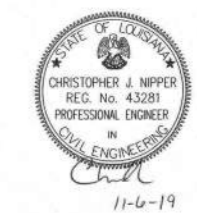
TYPICAL EXISTING SECTION (N.T.S.)
 APPLIES STA. 77+35.00 TO STA. 103+45.00
 APPLIES STA. 107+00.00 TO STA. 118+40.00
 APPLIES STA. 123+41.00 TO STA. 137+06.00



TYPICAL FINISHED SECTION (N.T.S.)
 APPLIES STA. 77+35.00 TO STA. 103+45.00
 APPLIES STA. 107+00.00 TO STA. 118+40.00
 APPLIES STA. 123+41.00 TO STA. 137+06.00

LEGEND

- ① 2" MILLING ASPHALT PAVEMENT
- ② 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)
- ③ SHOULDER WEDGE
- ④ REFLECTORIZED MARKERS (TWO-WAY YELLOW @ 20' O.C.)
- ⑤ 4" YELLOW PAVEMENT STRIPING
- ⑥ 4" WHITE PAVEMENT STRIPING
- ⑦ EXISTING BASE TO REMAIN



SHEET NUMBER	2a
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
PARISH	ST. TAMMANY
CONTROL SECTION	
PARISH PROJECT	PW 18000146
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
PARISH PROJECT	PW 18000146
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	
DATE	
BY	

TYPICAL SECTION AND DETAILS
I-10 SERVICE RD. BRIDGE REPLACEMENTS

Item No.	Item Description	Unit	Quantity
202-01-00100	Removal of Structures and Obstructions	LUMP	1
202-02-04000	Removal of Bridge (Sta. 105+37, 25.4' x 76' Timber Bridge)	EACH	1
202-02-04001	Removal of Bridge (Sta. 121+13, 25.4' x 76' Timber Bridge)	EACH	1
202-02-02020	Removal of Asphalt Pavement	SQYD	1603.6
203-02-00100	Drainage Excavation	CUYD	317
203-05-00100	Excavation and Embankment	LUMP	1
204-02-00100	Temporary Hay Bales	EACH	14
204-05-00100	Temporary Sediment Check Dams (Hay)	EACH	6
204-06-00100	Temporary Silt Fencing	LNFT	1395
302-02-14000	Class II Base Course (14" Thick)	SQYD	1916.5
304-05-00100	Lime Treatment (Type E)	SQYD	1917
502-01-00100	Asphalt Concrete	TON	1899.9
502-01-00200	Asphalt Concrete, Drives, Turnouts and Miscellaneous	TON	39.0
509-01-00100	Milling Asphalt Pavement	SQYD	12006
510-01-00200	Pavement Patching (12" Minimum Thickness)	SQYD	400
701-03-01022	Storm Drain Pipe (18" RCP/RPVCP)	LNFT	36
701-03-01042	Storm Drain Pipe (24" RCP/RPVCP)	LNFT	188
701-03-01100	Storm Drain Pipe (48" RCP/PP)	LNFT	65
701-04-01040	Storm Drain Pipe Arch (24" Equiv. RCPA)	LNFT	177
702-02-00100	Manholes (MH-06)	EACH	2
702-03-00100	Catch Basins (CB-01)	EACH	2
702-08-00200	Side Drain Safety End (Type 2)	EACH	2
704-03-00200	Blocked Out Guard Rail - 31", (6'-3" Post Spacing)	LNFT	50.0
704-07-00200	Guard Rail Transitions (Double Thrie Beam)	LNFT	100.0
704-10-00205	Guard Rail End Treatment, MASH, (TL-3 Tangent)	EACH	4
706-03-00100	Incidental Concrete Paving (4" Thick)	SQYD	212.0
708-01-00100	Right-of-Way Monument	EACH	6
711-01-04000	Riprap (55 lb, 18" Thick)	SQYD	475
713-01-00100	Temporary Signs and Barricades	LUMP	1
713-03-01000	Temporary Pavement Markings (Broken Line) (4" Width) (4' Length)	MILE	1.938
713-04-01000	Temporary Pavement Markings (Solid Line) (4" Width)	MILE	3.876
717-01-00100	Seeding	LB	10
718-01-00100	Fertilizer	LB	229
726-01-00100	Bedding Material	CUYD	108.4
727-01-00100	Mobilization	LUMP	1
729-16-00300	Object Marker Assembly (Type 3)	EACH	4
731-02-00100	Reflectorized Raised Pavement Markers	EACH	301
732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)	MILE	4.524
740-01-00100	Construction Layout	LUMP	1
804-01-00300	Precast Concrete Piles (16")	LNFT	3630
804-10-00300	Precast Concrete Indicator Piles (16")	EACH	2
804-14-00100	Dynamic Monitoring Assistance	EACH	2
804-15-00100	Dynamic Monitoring Instrumentation	LUMP	1
804-18-00100	Vibration Monitoring	DAY	4
805-01-00100	Class A1 Concrete (Slab Span)	CUYD	293.30
805-01-00300	Class A1 Concrete (Bent Cap)	CUYD	68.86
805-18-00100	Concrete Finish (Class 2 Rubbed Finish)	SQFT	478
805-18-00200	Concrete Finish (Class 3 Special Finish)	SQFT	4497
806-01-00100	Deformed Reinforcing Steel	LB	67942
810-01-00200	Concrete Bridge Railing (Slotted)	LNFT	400
813-01-00100	Concrete Approach Slabs (Cast-in-Place)	SQYD	128
NS-500-00340	Saw Cutting Asphalt Concrete Pavement	INLF	533



11-7-19

SHEET NUMBER		3	
DESIGNED	C. NIPPER	PARISH	ST. TAMMANY
CHECKED	J. LOHMANN	CONTROL SECTION	
DETAILED	C. NIPPER	PARISH PROJECT	PW 18000146
CHECKED	J. LOHMANN	SERIES NUMBER	
REVISION OR CHANGE ORDER DESCRIPTION		DATE	BY
SUMMARY OF ESTIMATED QUANTITIES			
I-10 SERVICE RD. BRIDGE REPLACEMENTS			
GEC			

FINAL PLANS

LEGEND - EXISTING TOPOGRAPHY

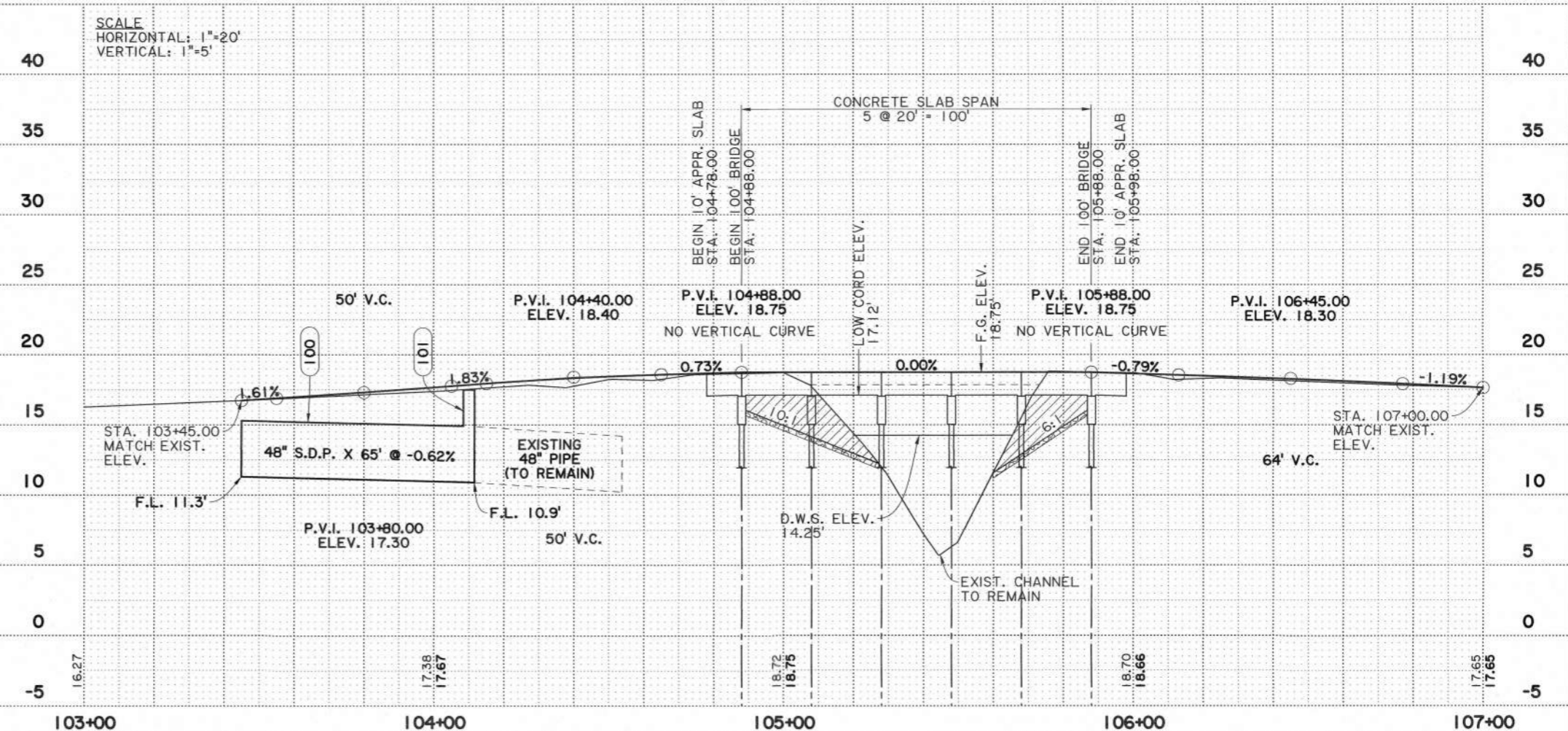
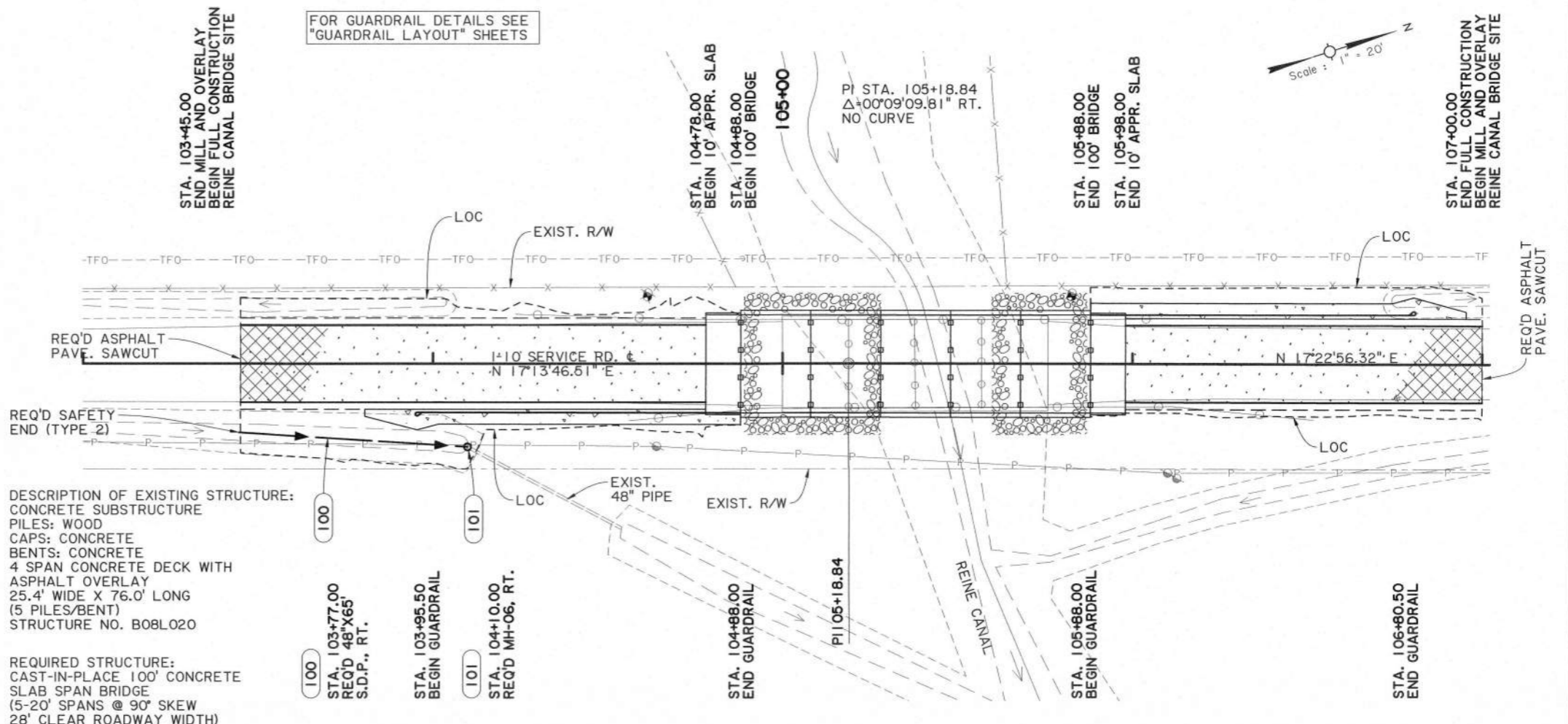
- CONTROL POINT
- TEMPORARY BENCH MARK
- PHOTO TARGET
- PAVEMENT EDGE
- SHOULDER EDGE
- SLOPE TOE
- GUARDRAIL TOP
- HIGH BANK
- WATER'S EDGE
- HIGH WATER MARK
- BOX CULVERT
- PIPE CULVERT
- CATCH BASIN TOP (ROUND)
- DROP INLET TOP (ROUND)
- DRAINAGE MANHOLE TOP
- LEVEE TOP
- DITCH CENTERLINE
- TREE
- WOODS EDGE
- MARSH LINE
- SWAMP LINE
- TREE CLUSTER
- HEDGE
- BUSH
- TREE LINE
- FENCE LINE
- GATE
- CATTLE GUARD
- PROPERTY CORNER
- RIGHT OF WAY MONUMENT
- SECTION CORNER
- FENCE CORNER
- TELEVISION CABLE
- TELEVISION PEDESTAL
- POWER POLE
- DEADMAN
- POWER LINE
- POWER JUNCTION BOX
- POWER VAULT
- TRANSFORMER
- COMBINATION POLE
- POWER DROP
- PIPELINE
- PIPELINE VENT
- PIPELINE REGULATOR
- GAS WELL
- HAY BALES
- SILT FENCE
- INLET SILT TRAP
- GAS LINE
- GAS METER
- GAS SERVICE (NO METER)
- GAS REGULATOR
- GAS RISER
- GAS TEST BOX
- GAS VALVE
- GAS LINE/CASING
- GAS VENT
- RAILROAD MILEPOST
- RAILROAD SIGNAL
- RAILROAD SWITCH
- RAILROAD TRACK
- RR TRAFFIC SIGNAL BOX
- SEWER LINE
- SEWER MANHOLE TOP
- SEWER BLOWOUT VALVE
- SEWER CLEANOUT
- SEPTIC TANK
- SEWER PUMP (PRIVATE)
- SEWER TREATMENT (INDIVIDUAL)
- FEDERAL AID MARKER
- TRAFFIC CONTROLLER BOX
- TRAFFIC COUNTER
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL SUPPORT POLE
- LIGHT POLE
- LIGHT PEDESTAL
- LIGHT POWER VAULT
- TRAFFIC SIGN
- PARKING METER
- TELEPHONE POLE
- TELEPHONE LINE
- TELEPHONE BOOTH
- TELE CROSS CONNECT BOX
- TELEPHONE PEDESTAL
- TELEPHONE PRESSURE BOX
- WATER LINE
- WATER LINE/CASING
- WATER CLEANOUT
- WATER METER
- WATER VALVE
- WATER VALVE VAULT
- WATER WELL
- FIRE HYDRANT
- BILLBOARD
- FUEL PUMP
- POST
- SIGN POST
- STORAGE TANK (ROUND)
- GRAVE
- MAILBOX
- ORNAMENTAL LIGHT
- FLAG POLE
- GRAVE

LEGEND

- REQUIRED ASPHALT PAVEMENT
- REQUIRED CONCRETE PAVEMENT
- REQUIRED REMOVAL
- REQUIRED DRAINAGE EXCAVATION
- REQUIRED RIPRAP



- NOTES:
- ALL SALVAGEABLE MATERIAL, AS DETERMINED BY THE PROJECT ENGINEER, TO BE LOADED ONTO PARISH TRUCKS BY THE CONTRACTOR (INCLUDED IN ITEM 202-02-04000). THIS NOTE WILL BE DISCUSSED AT PLAN-IN-HAND.
 - UNSAVAGEABLE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF BEYOND THE LIMITS OF THE R/W.
 - FOR ADDITIONAL GUARD RAIL INFORMATION, SEE GUARD RAIL STANDARDS.
 - ALL AREAS OF BRIDGE EMBANKMENT SLOPE AND DISTURBED SOIL NOT RECEIVING REVETMENT ARE TO BE SEEDED AND FERTILIZED.
 - ALL EXCAVATION AND FILL TO BE IN PLACE BEFORE DRIVING AFFECTED PILES.
 - DATE OF CONSTRUCTION REQUIRED EACH END OF BRIDGE. SEE STANDARD DETAIL YP-01.
 - UTILITIES TO BE RELOCATED BY OTHERS.
 - EXISTING PILES ARE TO BE CUT OFF 1 FOOT BELOW THE GROUND LINE. CONTRACTOR IS TO REMOVE ANY PILES INTERFERING WITH THE INSTALLATION OF NEW PILES (INCLUDED IN ITEM 202-02-04000).
 - ANY DISTURBED FENCE SHALL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.



SHEET NUMBER 4

DESIGNED BY C. NIPPER

CHECKED BY J. LOHMANN

PARISH ST. TAMMANY

CONTROL SECTION

PROJECT PW18000146

REVISION OR CHANGE ORDER DESCRIPTION

DATE

NO.

BY

PLAN AND PROFILE

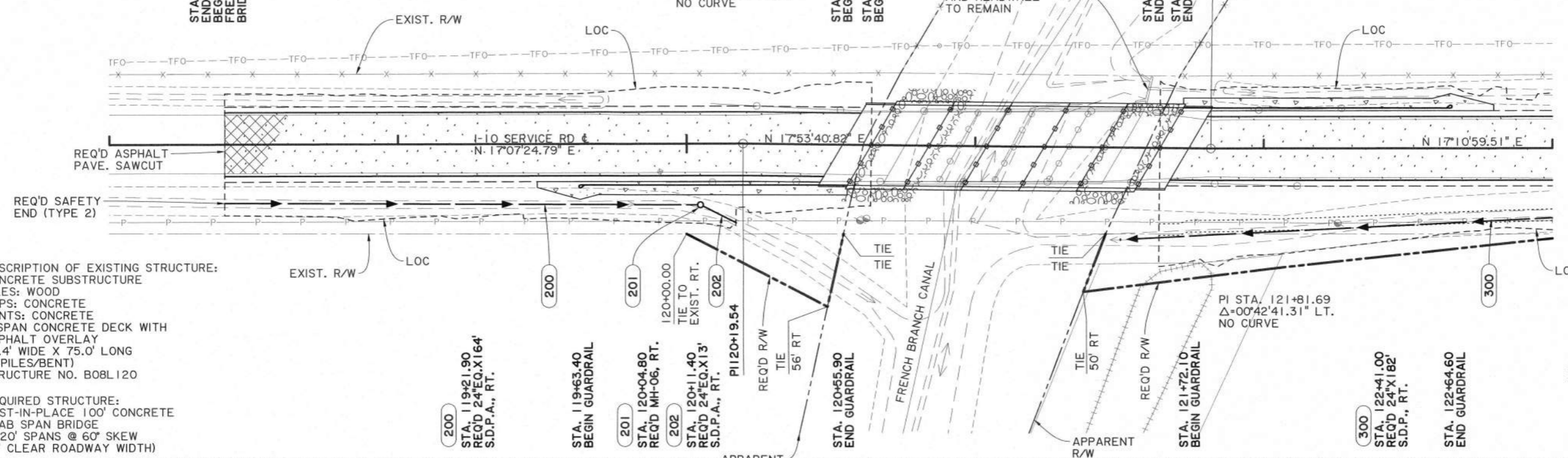
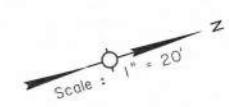
REINE CANAL

I-10 SERVICE RD. BRIDGE REPLACEMENTS

GEC Gulf Engineers & Consultants

STA. 118+40.00
END MILL AND OVERLAY
BEGIN FULL CONSTRUCTION
FRENCH BRANCH CANAL
BRIDGE SITE

FOR GUARDRAIL DETAILS SEE
"GUARDRAIL LAYOUT" SHEETS

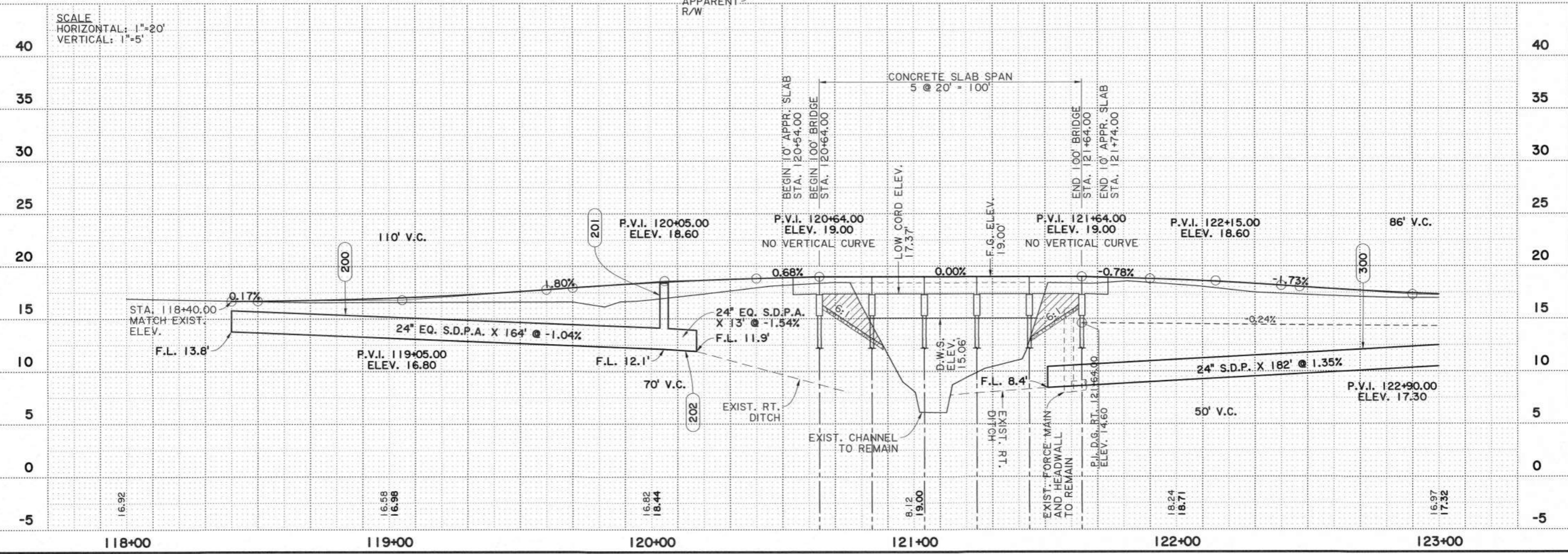




DESCRIPTION OF EXISTING STRUCTURE:
 CONCRETE SUBSTRUCTURE
 PILES: WOOD
 CAPS: CONCRETE
 BENTS: CONCRETE
 4 SPAN CONCRETE DECK WITH
 ASPHALT OVERLAY
 25.4' WIDE X 75.0' LONG
 (5 PILES/BENT)
 STRUCTURE NO. B08L120

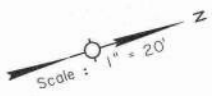
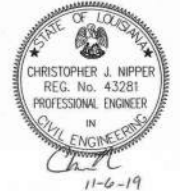
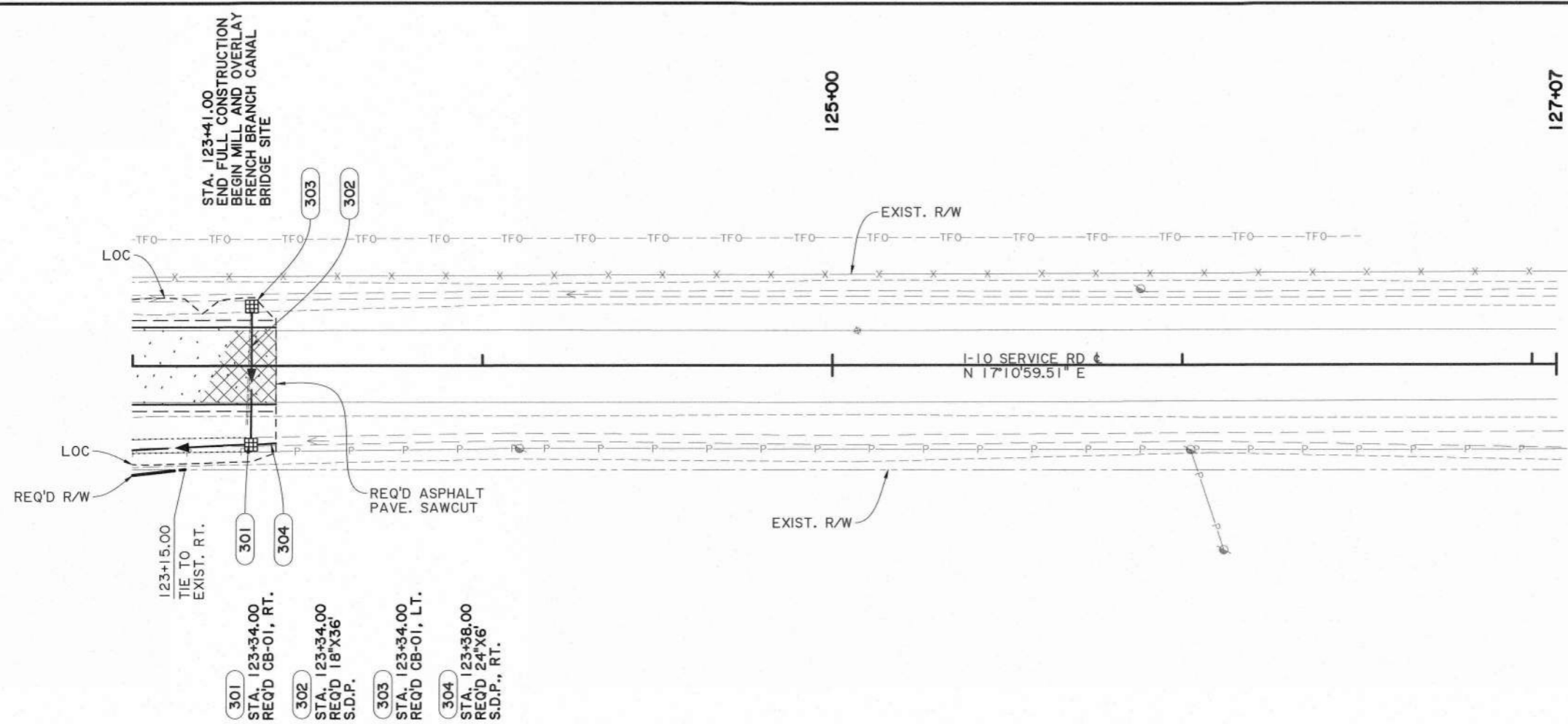
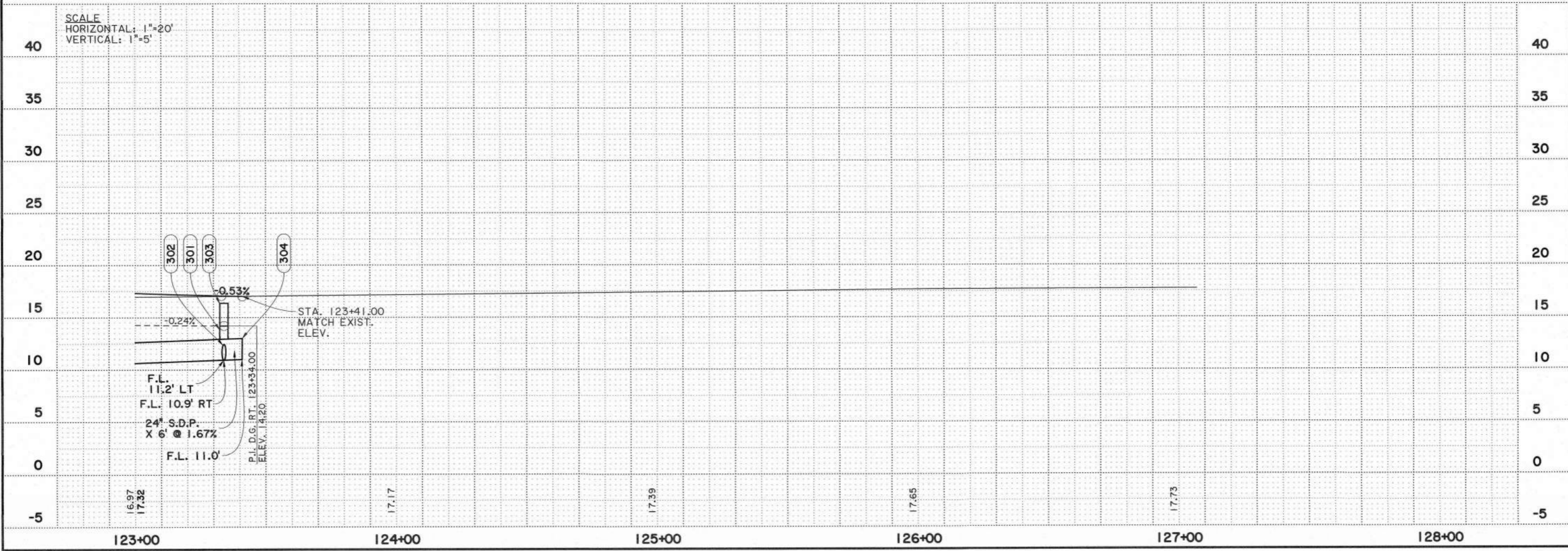
REQUIRED STRUCTURE:
 CAST-IN-PLACE 100' CONCRETE
 SLAB SPAN BRIDGE
 (5-20' SPANS @ 60° SKEW
 28' CLEAR ROADWAY WIDTH)



SCALE
 HORIZONTAL: 1"=20'
 VERTICAL: 1"=5'



SHEET NUMBER	5
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
PARISH	ST. TAMMANY
CONTROL SECTION	
Detailed	C. NIPPER
CHECKED	J. LOHMANN
PARISH	
SERIES NUMBER	PW18000146
PROJECT	
REVISION OR CHANGE ORDER DESCRIPTION	
DATE	
NO.	
BY	
 PLAN AND PROFILE FRENCH BRANCH CANAL I-10 SERVICE RD. BRIDGE REPLACEMENTS	
 GEC Gulf Engineers & Consultants	



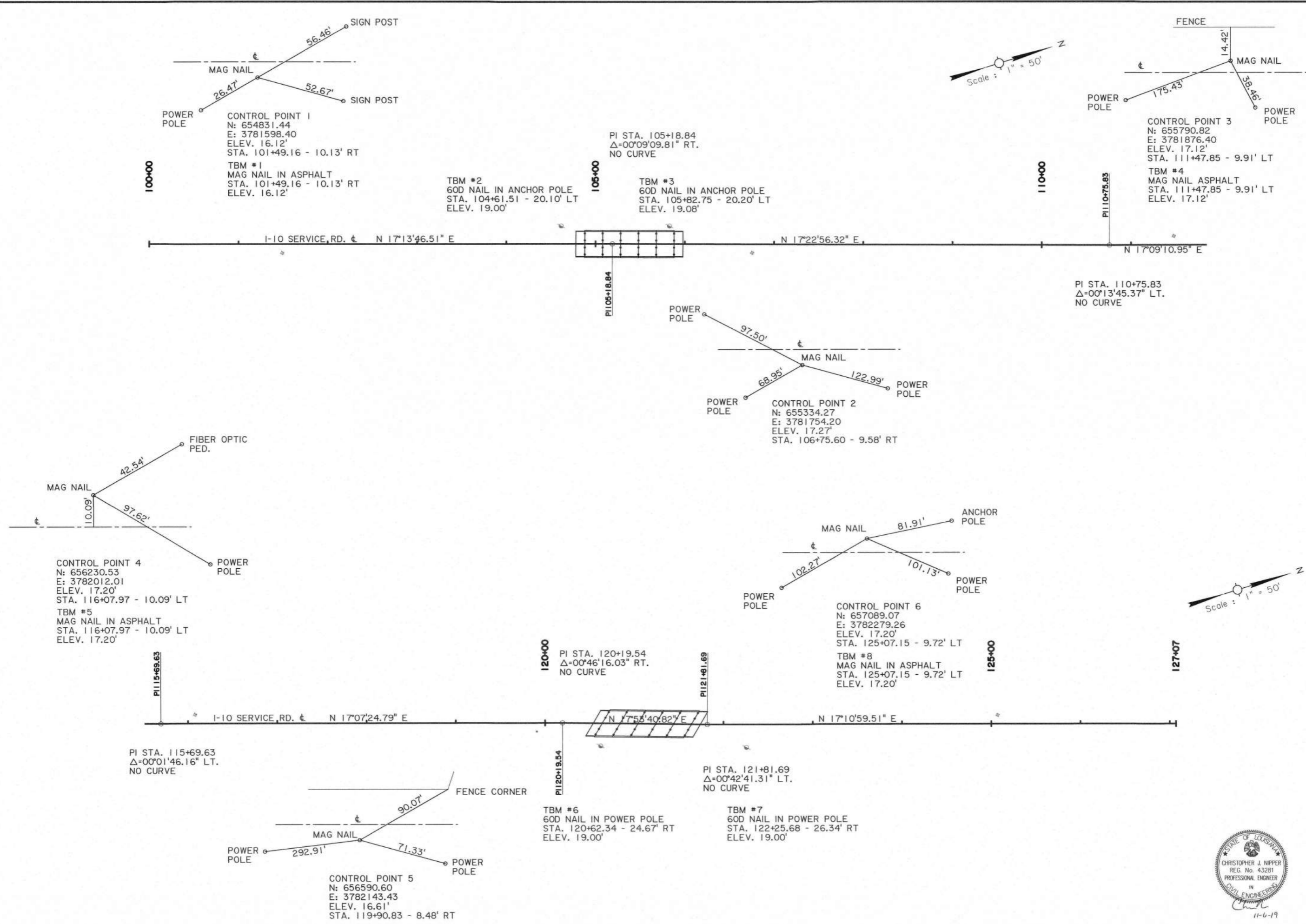
DESIGNED: C. NIPPER		PARISH	ST. TAMMANY
CHECKED: J. LOHMANN		CONTROL SECTION	
DETAILED: C. NIPPER		PARISH PROJECT	PW18000146
CHECKED: J. LOHMANN		SHEET NUMBER	6
REVISION OR CHANGE ORDER DESCRIPTION		DATE	
BY			



PLAN AND PROFILE
FRENCH BRANCH CANAL
I-10 SERVICE RD. BRIDGE REPLACEMENTS



FINAL PLANS



SHEET NUMBER	7
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
DATE	
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	
DATE	
BY	
PARISH	ST. TAMMANY
CONTROL SECTION	
PARISH PROJECT	PW18000146
TBMs AND CONTROL POINTS	
I-10 SERVICE RD. BRIDGE REPLACEMENTS	
11-6-19	

ESTIMATED PEAK CHARGE
 DRAINAGE AREA: 0.130 SQ. MI.
 HYDRAULIC LENGTH: 3,477 FEET
 ANNUAL RAINFALL: 64 IN
 SLOPE: 1.0 FEET PER MILE

FREQUENCY (YEARS)	DISCHARGE (CFS)
50	59
100	73
500	115



BRIDGE SITE

Legend

Stream

Drainage Area

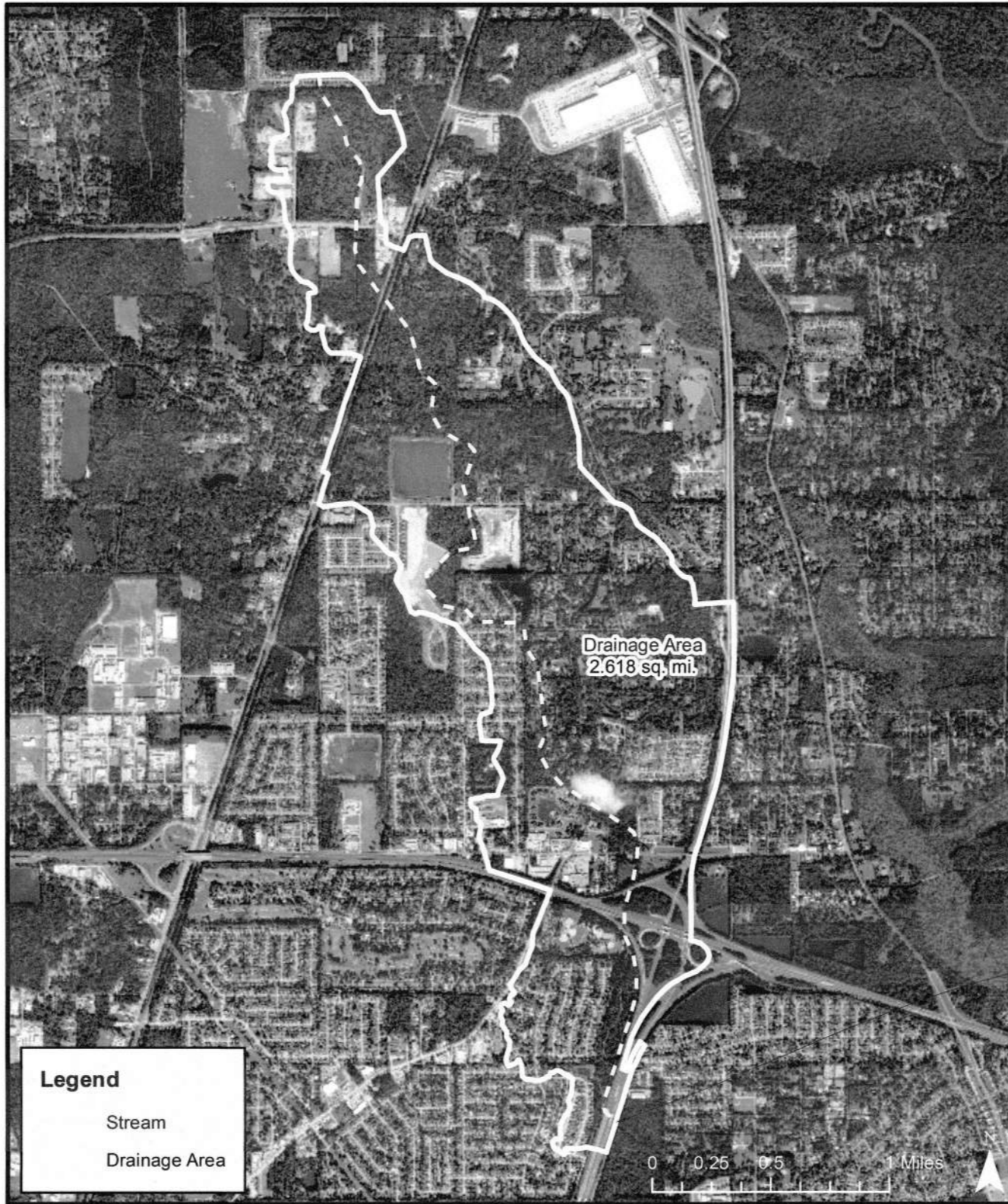
<p>Drainage Area Map</p> <p>East Reine Canal St. Tammany Parish</p> <p><small>Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community</small></p>		<p>GEC</p> <p>Figure: 1</p> <p>Date: April 2019</p> <p>Scale: 1:12,000</p> <p>Source: ESRI/GEC</p> <p>Map ID: 0051.2240106.000</p>
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SHEET NUMBER		8	
DESIGNED	C. NIPPER	PARISH	ST. TAMMANY
CHECKED	J. LOHMANN	CONTROL SECTION	
DETAILED	C. NIPPER	PARISH PROJECT	PW18000146
CHECKED	J. LOHMANN	SERIES NUMBER	
REVISION OR CHANGE ORDER DESCRIPTION	NO.	DATE	BY
<p>DRAINAGE MAP</p> <p>REINE CANAL</p> <p>I-10 SERVICE RD. BRIDGE REPLACEMENTS</p>			
<p>GEC</p> <p>Gulf Engineers & Consultants</p>			

ESTIMATED PEAK CHARGE
 DRAINAGE AREA: 2.618 SQ. MI.
 HYDRAULIC LENGTH: 24,246 FEET
 ANNUAL RAINFALL: 64 IN
 SLOPE: 2.3 FEET PER MILE

FREQUENCY (YEARS)	DISCHARGE (CFS)
50	764
100	1,084
500	1,510



Legend

Stream

Drainage Area

Drainage Area Map


French Branch (W-15)
St. Tammany Parish

GEC

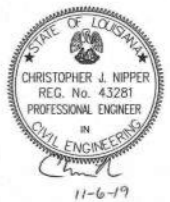
Figure: 1
Date: April 2019
Scale: 1:36,000
Source: ESRI/GEC
Map ID: 0051.2240106.000-3185

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



SHEET NUMBER		9
DESIGNED	C. NIPPER	PARISH
CHECKED	J. LOHMANN	
DESIGNED	C. NIPPER	CONTROL SECTION
CHECKED	J. LOHMANN	
SERIES NUMBER		PARISH PROJECT
		PW18000146
NO.	DATE	BY
	REVISION OR CHANGE ORDER DESCRIPTION	
		
DRAINAGE MAP FRENCH BRANCH CANAL I-10 SERVICE RD. BRIDGE REPLACEMENTS		
		

SUMMARY OF DRAINAGE STRUCTURES														
STRUCTURE NO.	STATION	SIDE OF CL	DESCRIPTION	PLAN	TYPE	STORM DRAIN PIPE (TYPE 3 JOINTS)			STORM DRAIN PIPE ARCH (TYPE 3 JOINTS)	MANHOLES	CATCH BASIN	BEDDING MATERIAL		
						18"	24"	48"	24" EQUIV.	MH-06	CB-01	CU. YDS.		
						LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH			
100	103+77.00	RT	STORM DRAIN PIPE 48" X 65'		SDP			65				16.9		
101	104+10.00	RT	MH-06	MH-06	MH				1			2.6		
200	119+21.90	RT	STORM DRAIN PIPE ARCH 24" EQ. X 164'		SDPA			164				32.8		
201	120+04.80	RT	MH-06	MH-06	MH				1			2.6		
202	120+11.40	RT	STORM DRAIN PIPE ARCH 24" EQ. X 13'		SDPA			13				2.6		
300	122+41.00	RT	STORM DRAIN PIPE 24" X 182'		SDP			182				40.4		
301	123+34.00	RT	CB-01 W/ TYPE "B" GRATE	CB-01	CB					1		1.6		
302	123+34.00	RT/LT	STORM DRAIN PIPE 18" X 36'		SDP	36						6.0		
303	123+34.00	LT	CB-01 W/ TYPE "B" GRATE	CB-01	CB					1		1.6		
304	123+38.00	RT	STORM DRAIN PIPE 24" X 6'		SDP			6				1.3		
TOTAL								36	188	65	177	2	2	108.4



11-6-19

SHEET NUMBER		10
DESIGNED C. NIPPER	CHECKED J. LOHMANN	ST. TAMMANY
PARISH	CONTROL SECTION	PROJECT
PARISH	PARISH	PROJECT
PW18000146		




	REVISION OR CHANGE ORDER DESCRIPTION
	BY

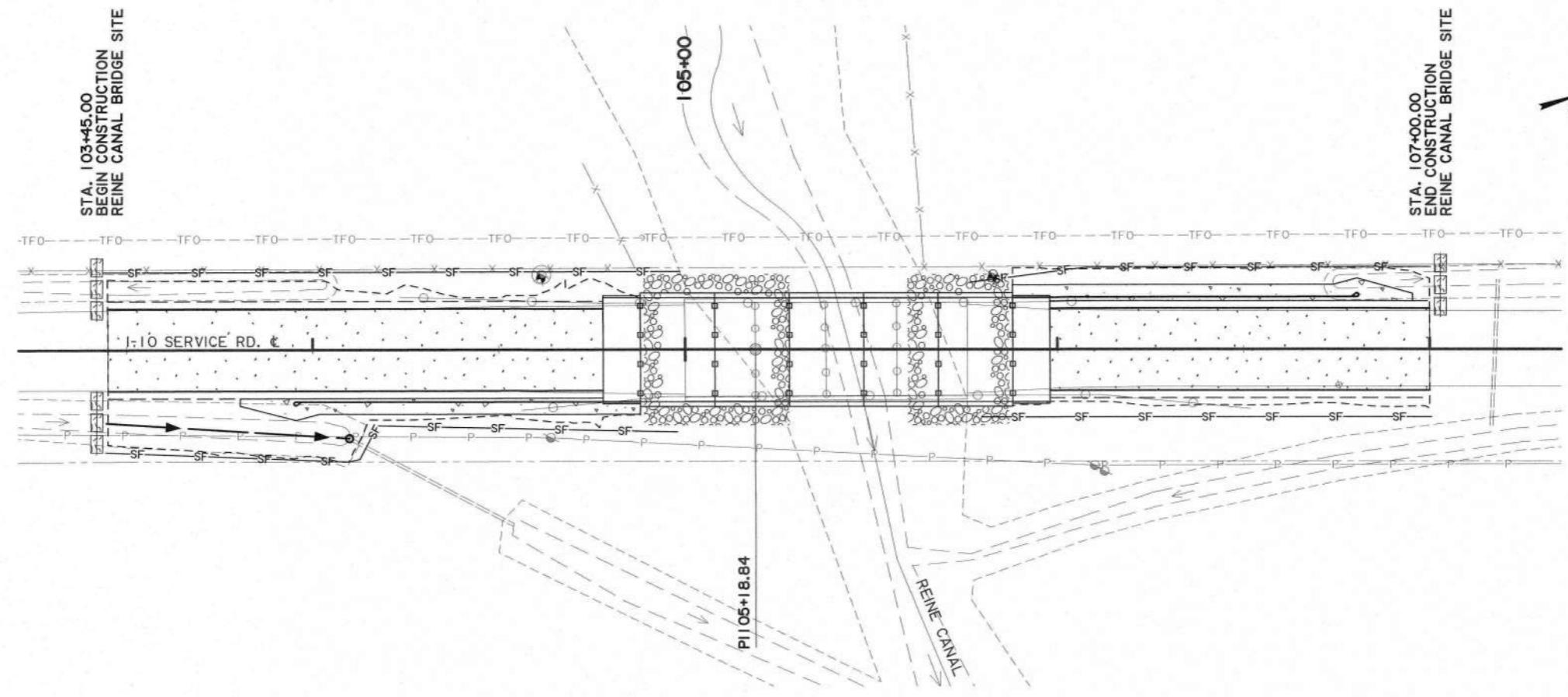
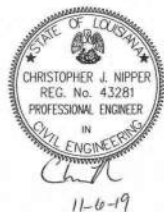
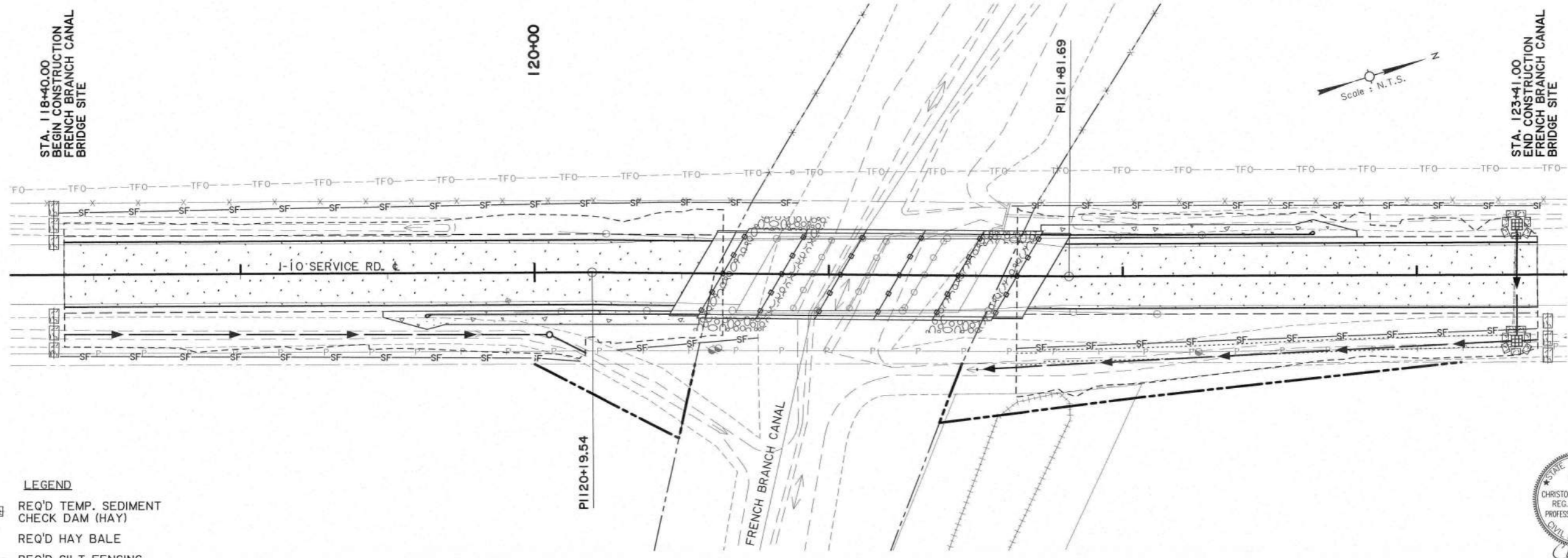
	DATE
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SUMMARY OF DRAINAGE STRUCTURES

I-10 SERVICE RD. BRIDGE REPLACEMENTS

Gulf Engineers & Consultants

- LEGEND**
-  REQ'D TEMP. SEDIMENT CHECK DAM (HAY)
 -  REQ'D HAY BALE
 -  REQ'D SILT FENCING



**SUGGESTED TEMPORARY
EROSION CONTROL**

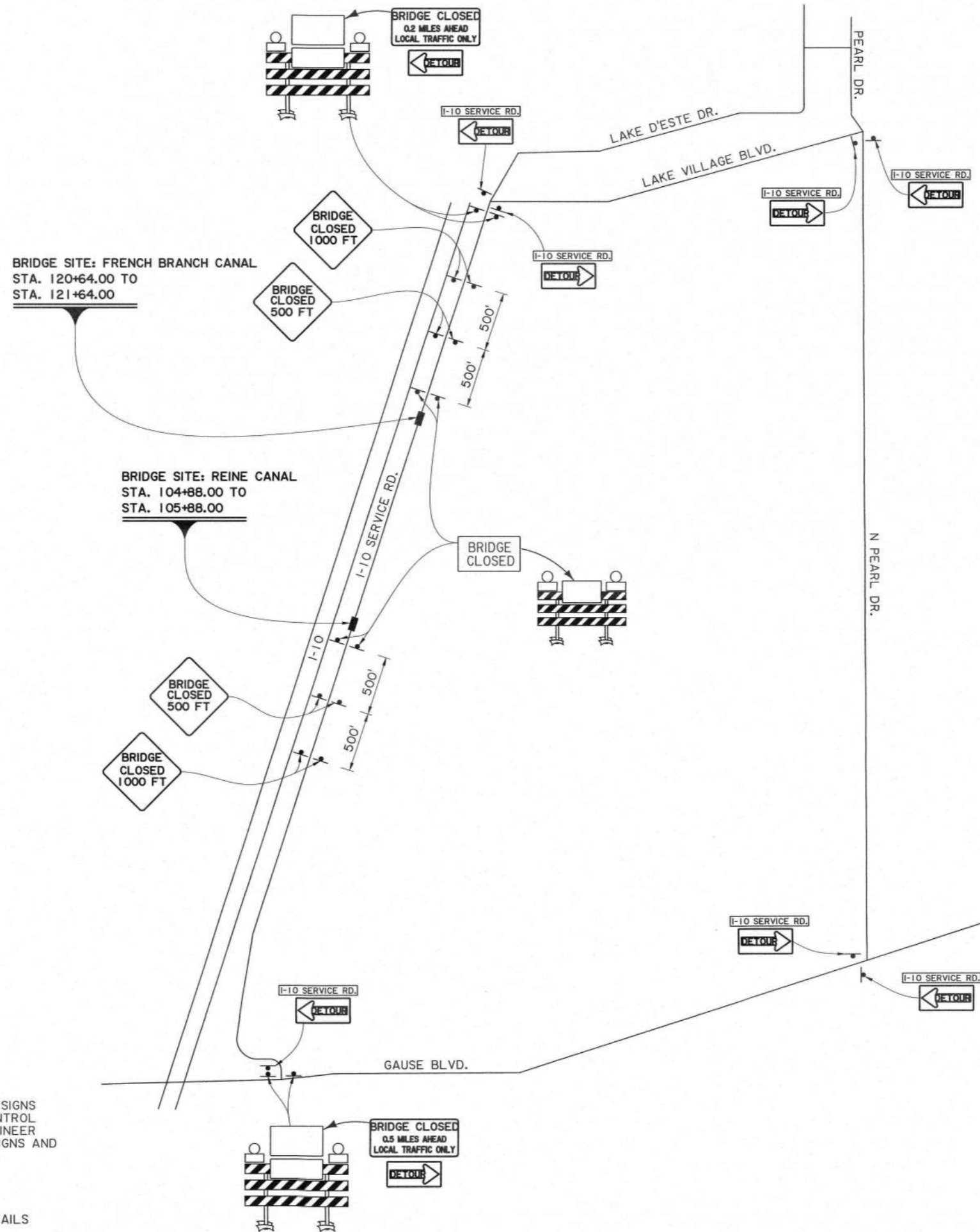


I-10 SERVICE RD. BRIDGE REPLACEMENTS

DESIGNED	C. NIPPER	PARISH	ST. TAMMANY	SHEET NUMBER	11
CHECKED	J. LOHMANN	CONTROL SECTION			
DETAILED	C. NIPPER	PARISH PROJECT	PW18000146		
CHECKED	J. LOHMANN				
SERIES NUMBER					

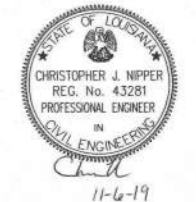
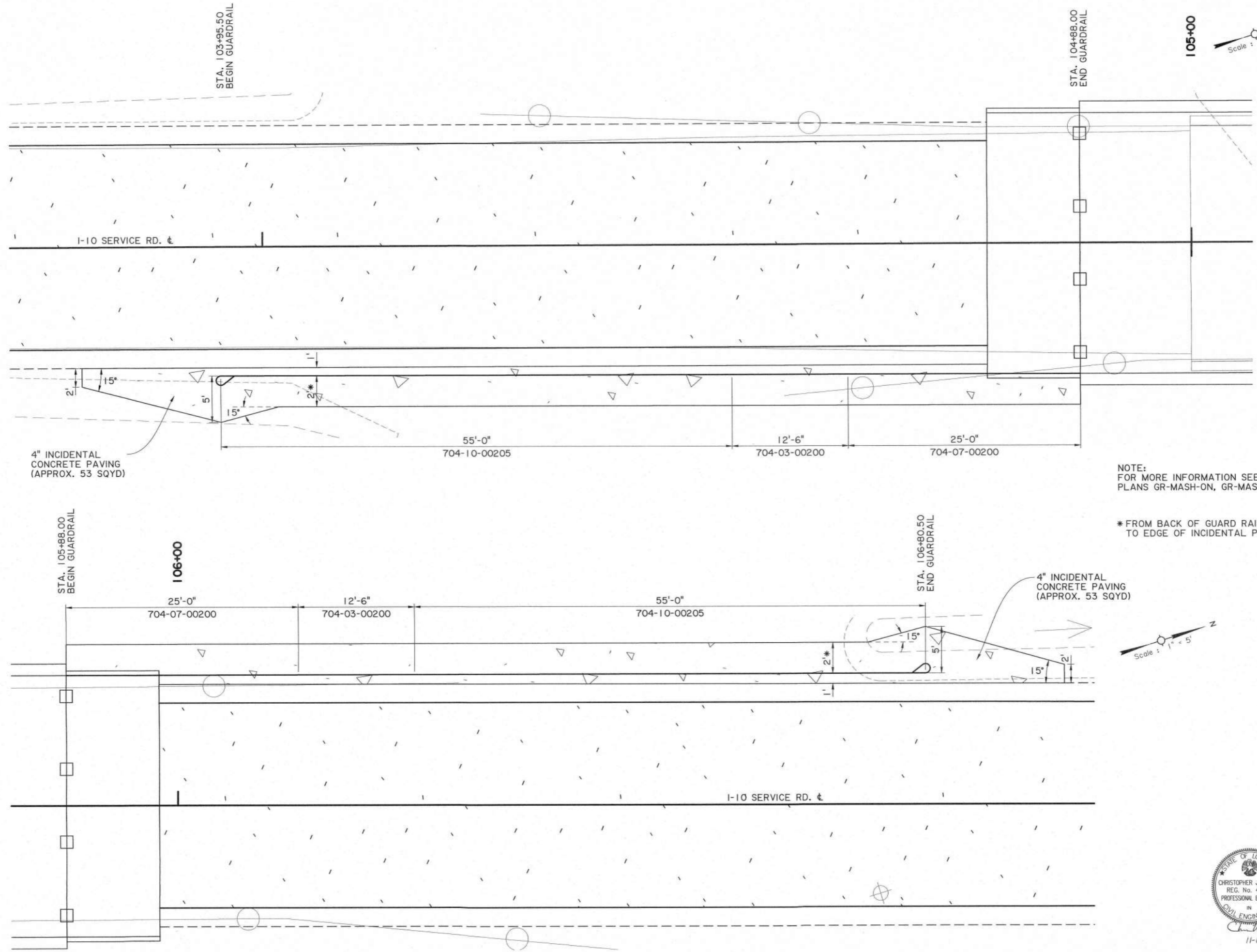
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

- NOTES:
1. ACCESS TO RESIDENCES AND BUSINESSES TO BE MAINTAINED AT ALL TIMES
 2. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND/OR REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM "TEMPORARY SIGNS AND BARRICADES"
 3. FOR ADDITIONAL SIGNING SEE STANDARD PLANS TTC-00 (A-D), AND TTC-16
 4. SEE TTC-03 AND TTC-04 FOR LANE CLOSURE DETAILS DURING CONSTRUCTION



11-6-19

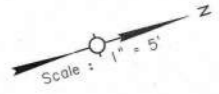
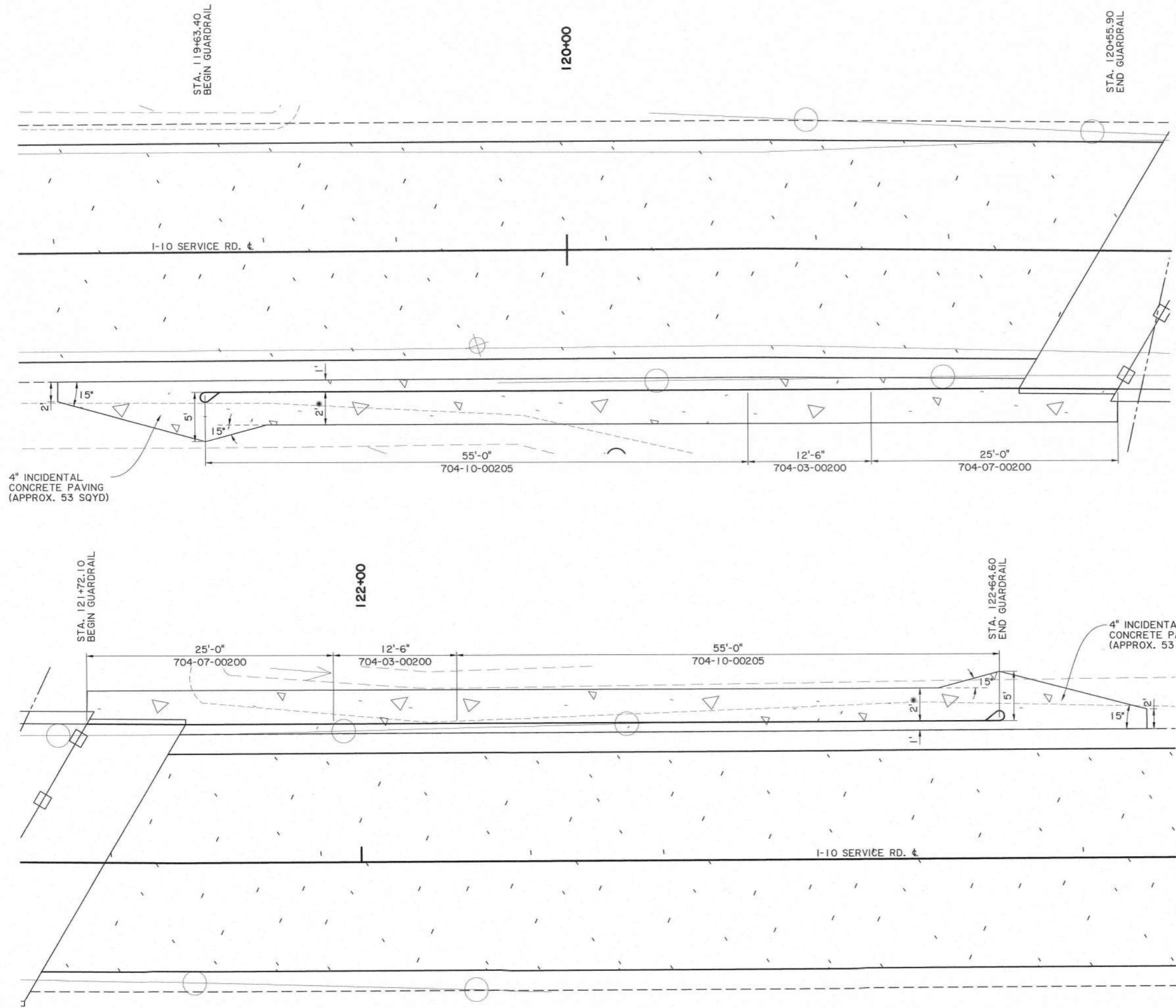
SHEET NUMBER		12	
DESIGNED	C. NIPPER	PARISH	ST. TAMMANY
CHECKED	J. LOHMANN	CONTROL SECTION	
DETAILED	C. NIPPER	PARISH PROJECT	PW 18000146
CHECKED	J. LOHMANN		
SERIES NUMBER			
REVISION OR CHANGE ORDER DESCRIPTION			
NO.		DATE	
DETOUR SIGNING AND MAP		I-10 SERVICE RD. BRIDGE REPLACEMENTS	
GEC		Gulf Engineers & Consultants	



SHEET NUMBER		3	
DESIGNED	C. NIPPER	PARISH	ST. TAMMANY
CHECKED	J. LOHMANN	CONTROL SECTION	
DETAILED	C. NIPPER	PARISH PROJECT	PW 18000146
CHECKED	J. LOHMANN		
SERIES NUMBER			
REVISION OR CHANGE ORDER DESCRIPTION			
NO.		DATE	
BY			

GUARDRAIL LAYOUT
REINE CANAL






NOTE:
FOR MORE INFORMATION SEE STANDARD
PLANS GR-MASH-ON, GR-MASH-OFF, HS-03

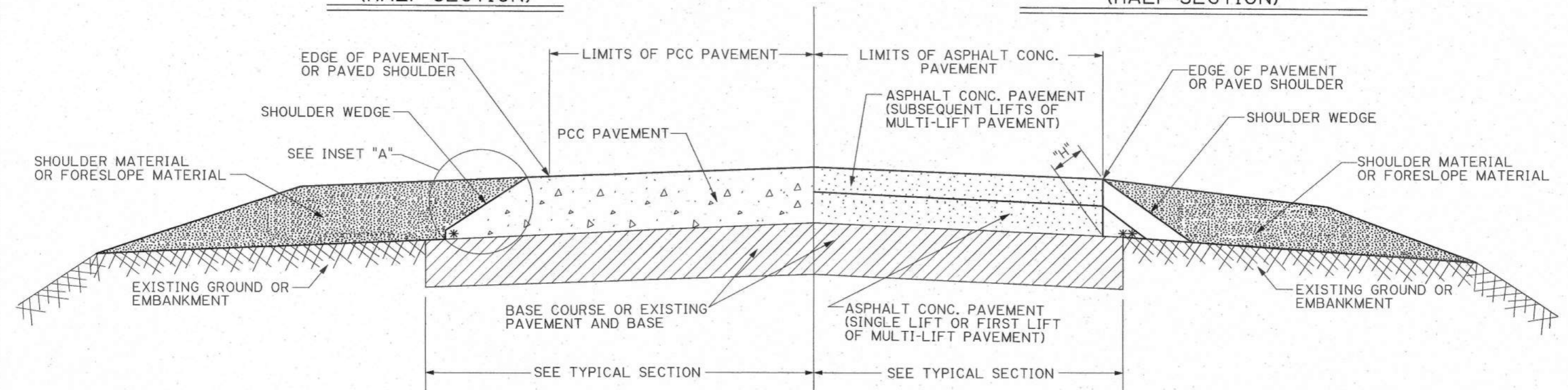
* FROM BACK OF GUARD RAIL POST
TO EDGE OF INCIDENTAL PAVEMENT



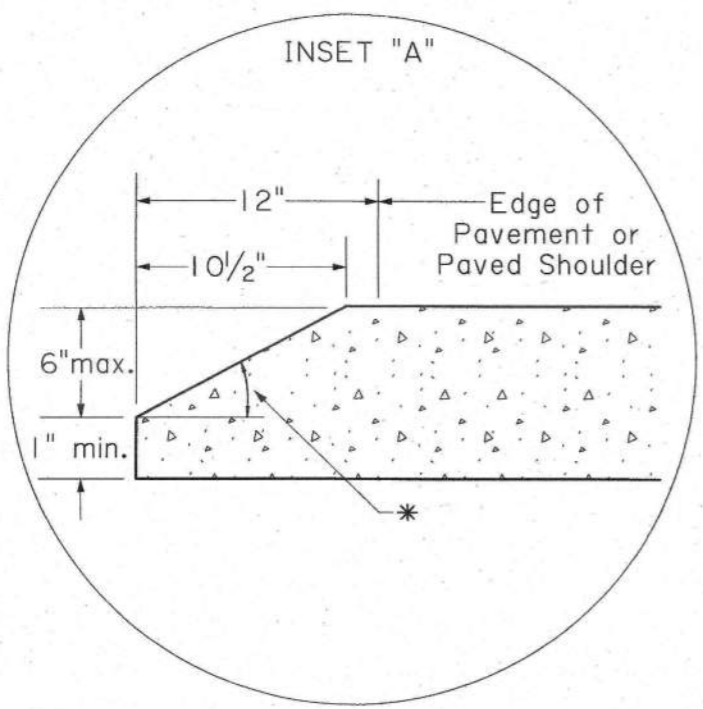
SHEET NUMBER 14		
DESIGNED CHECKED C.NIPPER J.LOHMANN	PARISH CONTROL SECTION	ST. TAMMANY
DETAILED CHECKED C.NIPPER J.LOHMANN	PARISH PROJECT	PW 18000146
SERIES NUMBER	REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE	
		
GUARDRAIL LAYOUT FRENCH BRANCH CANAL		
I-10 SERVICE RD. BRIDGE REPLACEMENTS		
		

CONCRETE PAVEMENT
(HALF-SECTION)

ASPHALT CONCRETE PAVEMENT
(HALF-SECTION)



FINAL PLANS



NOTES:

- 1) SHOULDER WEDGES SHALL BE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED ROADWAY (EDGE OF TRAVEL LANE OR EDGE OF PAVED SHOULDER).
- 2) FOR ASPHALT CONCRETE PAVEMENTS: SHOULDER WEDGES SHALL BE UTILIZED ON SINGLE LIFTS IF THE LAYER THICKNESS IS GREATER THAN OR EQUAL TO 2" AND, AT A MINIMUM, ON EACH OF THE 2 TOP LIFTS OF MULTI-LIFT PAVEMENT.
- 3) EQUIP THE PAVER WITH A MECHANICAL DEVICE THAT WILL PRODUCE A WEDGE WITH A UNIFORM TEXTURE, SHAPE, AND DENSITY, WHILE AUTOMATICALLY ADJUSTING TO VARYING HEIGHTS ENCOUNTERED ALONG THE SHOULDER EDGE.
- 4) THE CONTRACTOR SHALL BLADE AND SHAPE EXISTING GROUND OR SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE ASPHALT SHOULDER WEDGE PRIOR TO PLACEMENT OF THE PAVEMENT.
- 5) FOR ASPHALT CONCRETE PAVEMENTS: THE MAXIMUM SHOULDER WEDGE HEIGHT ("H") SHALL EQUAL 6". IF THE TOTAL ASPHALT THICKNESS IS GREATER THAN 6" THE CONTRACTOR SHALL STAGE CONSTRUCTION BY PULLING UP THE SHOULDERS OR FORESLOPE MATERIAL IN THE LOWER LIFTS, THEN UTILIZING THE WEDGE IN EACH OF THE FINAL 2 LIFTS.
- 6) REQUIRED BASE WIDTHS ARE AS SHOWN ON TYPICAL SECTIONS. FOR ASPHALT SHOULDER WEDGE, REQUIRED BASE WIDTH MIGHT NOT INCLUDE WIDTH OF ASPHALT WEDGE. ASPHALT SHOULDER WEDGE MAY BE SUPPORTED BY THE EXISTING GROUND OR SHOULDER MATERIAL. FOR CONCRETE SHOULDER WEDGE, REQUIRED BASE WIDTH IS TO INCLUDE THE WIDTH OF SHOULDER WEDGE AND THE DESIRED ADDITIONAL WIDTH BEYOND THE SURFACING.

* 30° desired
** 35° desired

These standard plans have been properly examined by me, the undersigned Louisiana professional engineer. I have determined that these plans comply with all applicable Louisiana codes and have been properly site adapted to use in this area.



DESIGNED	MAC	TL	OF
CHECKED	MAC	MAC	I
CONTROL			
SECTION			
STATE			
PROJECT			

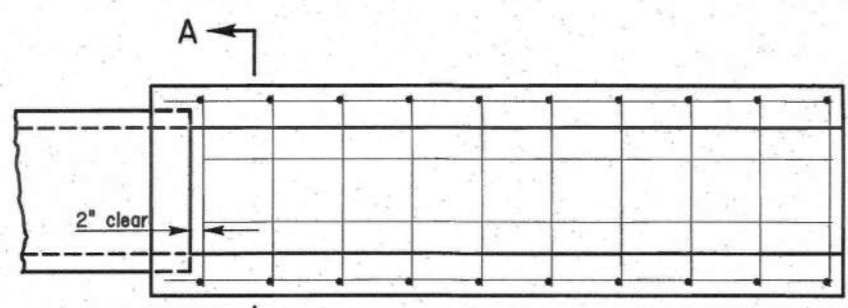
PARISH	
NO.	
DATE	
REVISION OR CHANGE ORDER DESCRIPTION	
BY	



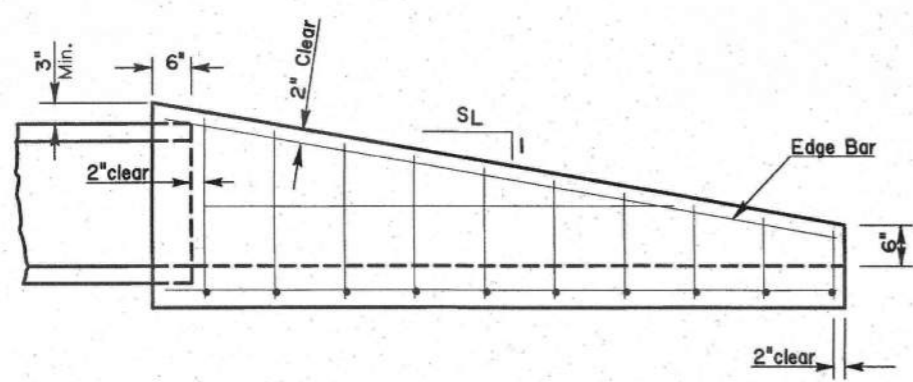
SHOULDER WEDGE
DETAIL



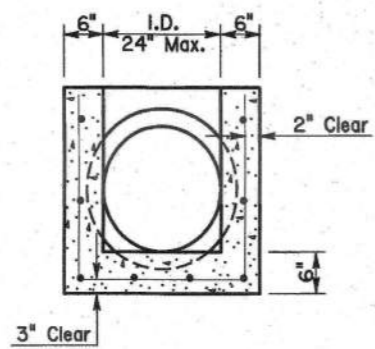
CAST-IN-PLACE ALTERNATE



PLAN



PROFILE

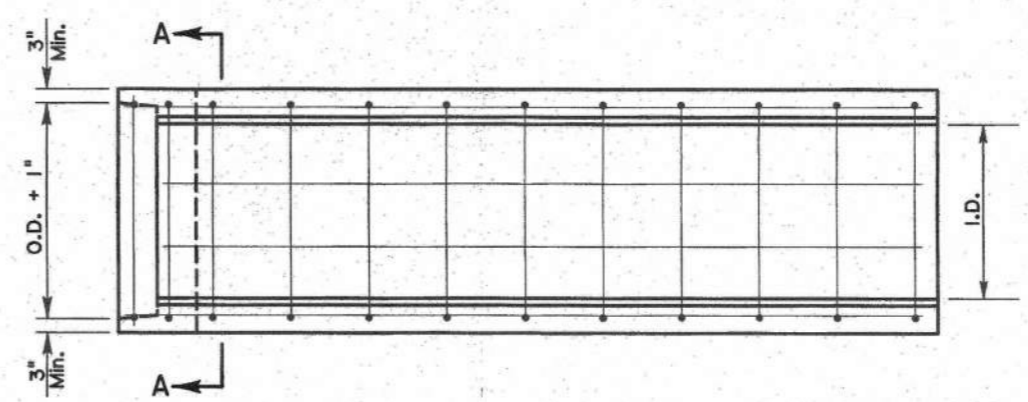


SECTION A-A

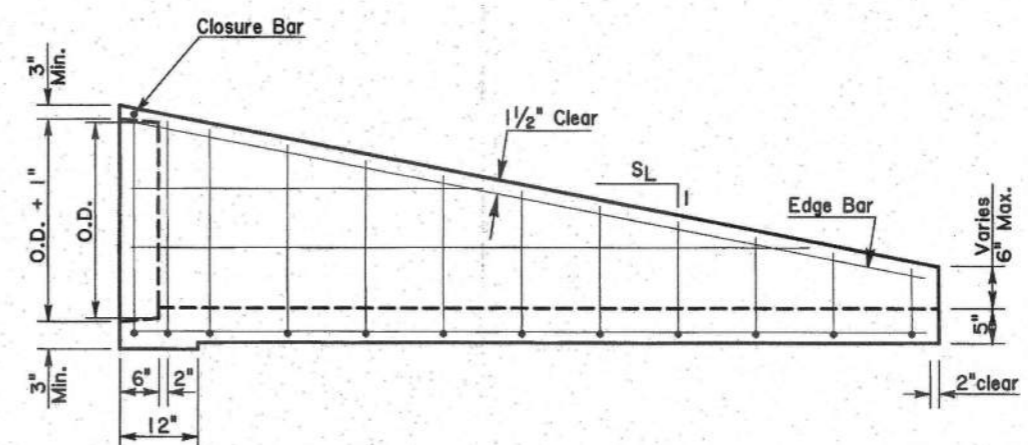
FINAL PLANS

PRECAST ALTERNATE

- Notes:
1. RCP bell ends which exceed the normal pipe outside diameter (O.D.) shall be removed.
 2. Pipe connections shall be sealed with flexible joint sealant.
 3. Exposed corners may be chamfered $\frac{3}{4}$ ".



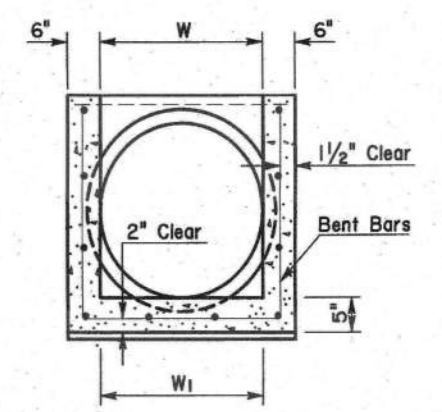
PLAN



PROFILE



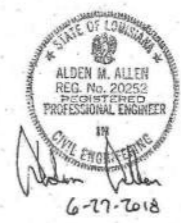
These standard plans have been properly examined by me, the undersigned Louisiana professional engineer. I have determined that these plans comply with all applicable Louisiana codes and have been properly site adapted to use in this area.



SECTION A-A
Max. difference, W-W₁ = 1"

General Notes: (Cast-in-Place & Precast Alternate)

- 1) While a RCP culvert is detailed, this Safety End shall also be used with RCPA, CMP, CMPA, and RCB culverts. Multiple culverts require multiple Safety Ends.
- 2) Slope of Safety End walls (S₁:1) shall match the required sideslope. If no sideslope is given, a slope of 6:1 shall be required.
- 3) The Safety End shall be cast-in-place or precast concrete units and shall be in accordance with Section 702 of the LA DOTD Standard Specifications.
- 4) Concrete to be Class A1 and reinforcing steel to be #4 Grade 60.
- 5) Reinforcing steel at 9" maximum centers

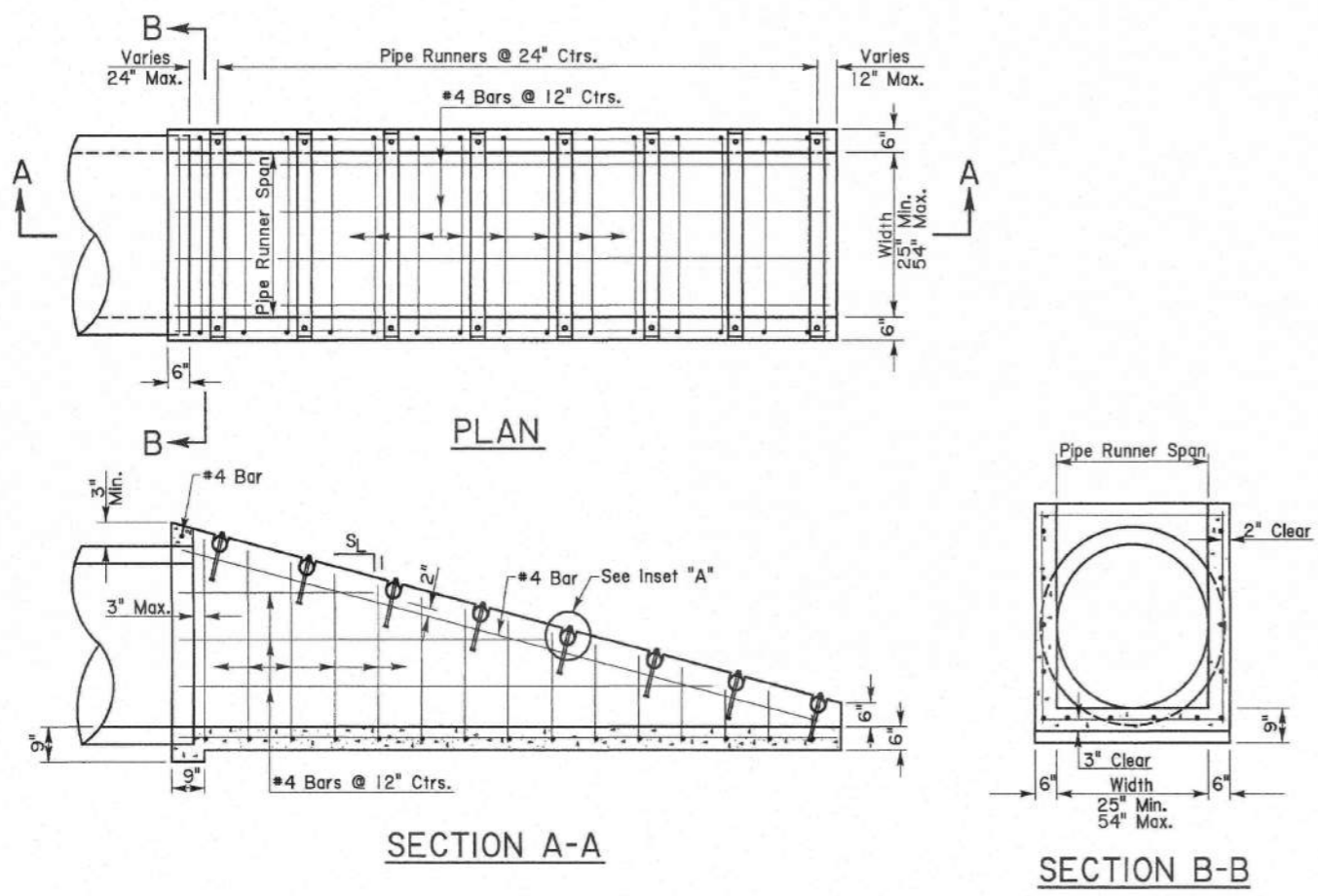


DATE	DESCRIPTION	BY
6-12-18	Revise Precast To Uniform 6" Wall Thickness	AMA
1-16-98	Added Special Detail Name SETSD1	JCM
9-27-93	Revised General Notes	WMR
7-10-92	Revised General Notes	PAA
6-22-92	Removed Sack Alternate, added Precast Alternate, revised Cast-in-Place Alternate	PAA
8-5-91	General Revisions	PAA

SPECIAL DETAIL NO.	SETSD1	SHEET	1 OF 1
SIDE DRAIN SAFETY END - TYPE I			
Maximum Pipe Sizes: 24" RCP 24" CMP 18" Eq. RCPA 18" Eq. CMPA			
DATED APRIL 22, 1991			
STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT			
DESIGNED PAA	DETAILED KAJ	DR. spdetal/saftend	
CHECKED	CHECKED PAA	FILE setsd1.dgn	
HYDRAULICS SECTION			

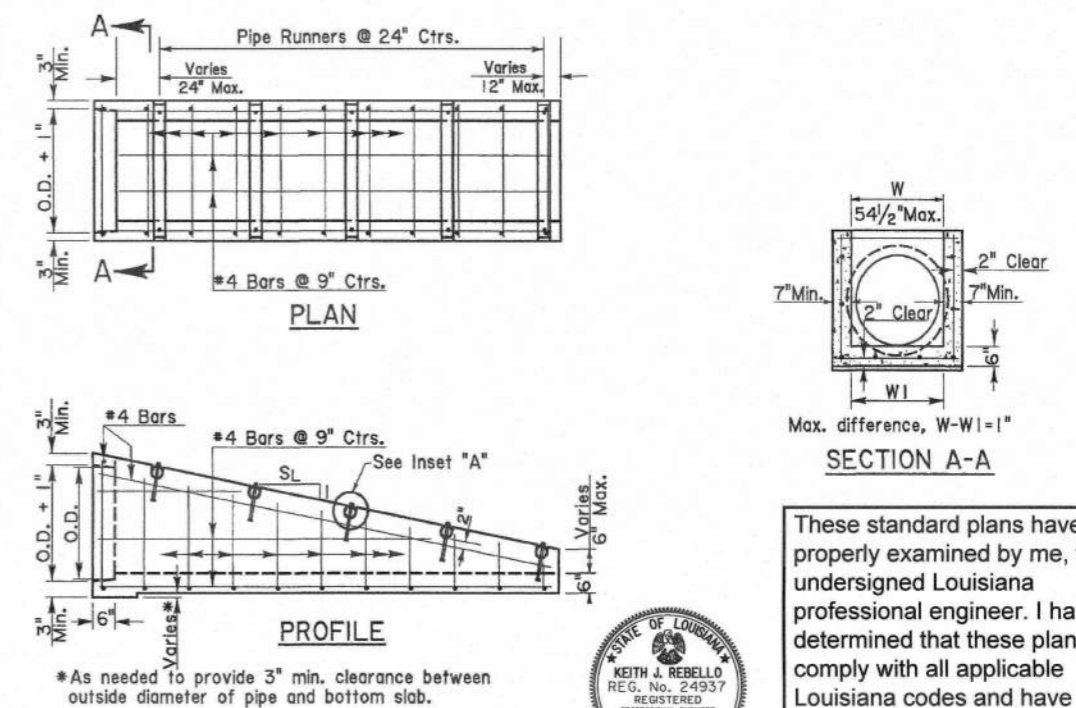
FEDERAL PROJECT	STATE PROJECT	PARISH	SHEET NO.
			17

CAST-IN-PLACE ALTERNATE



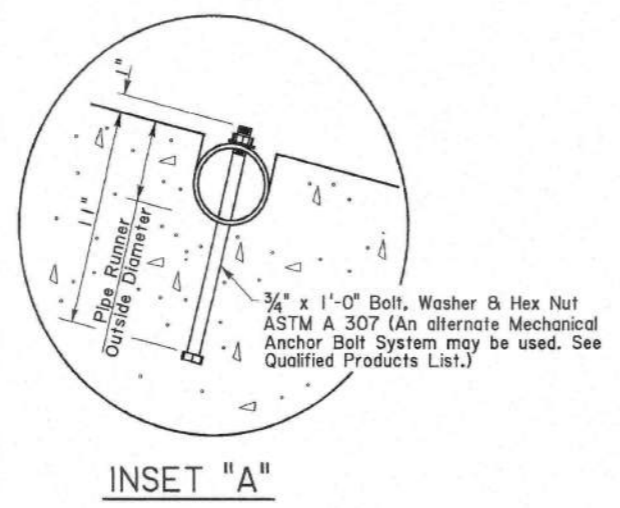
PRECAST ALTERNATE

- Notes:
1. Concrete to be 4000 psi & reinforcing steel to be Grade 60.
 2. RCP bell ends which exceed the normal pipe outside diameter (O.D.) shall be removed.
 3. Pipe connections shall be sealed with flexible gasket material.
 4. Exposed corners may be chamfered 3/4".



STATE OF LOUISIANA
 KEITH J. REBELLO
 REG. No. 24937
 REGISTERED PROFESSIONAL ENGINEER
 IN CIVIL ENGINEERING
 11/04/2019

These standard plans have been properly examined by me, the undersigned Louisiana professional engineer. I have determined that these plans comply with all applicable Louisiana codes and have been properly site adapted to use in this area.



General Notes: (Cast-In-Place & Precast)

- 1) While a RCP culvert is detailed, this Safety End shall also be used with RCPA, CMP, CMPA, and RCB culverts. Multiple culverts will require multiple ends.
- 2) Slope of Safety End walls (S_e:1) shall match the required sideslope. If no sideslope is given, a slope of 6:1 shall be required.
- 3) Pipe Runners shall be galvanized steel pipe conforming to ASTM A53, Type E or S, Grade B, 35ksi; or ASTM A501, 36ksi. Required Pipe Runner diameters and strengths for various maximum spans are:
- 4) Side Drain Safety Ends may be provided as cast-in-place or precast, and shall be in accordance with Section 702 of the LA DOTD Standard Specifications.

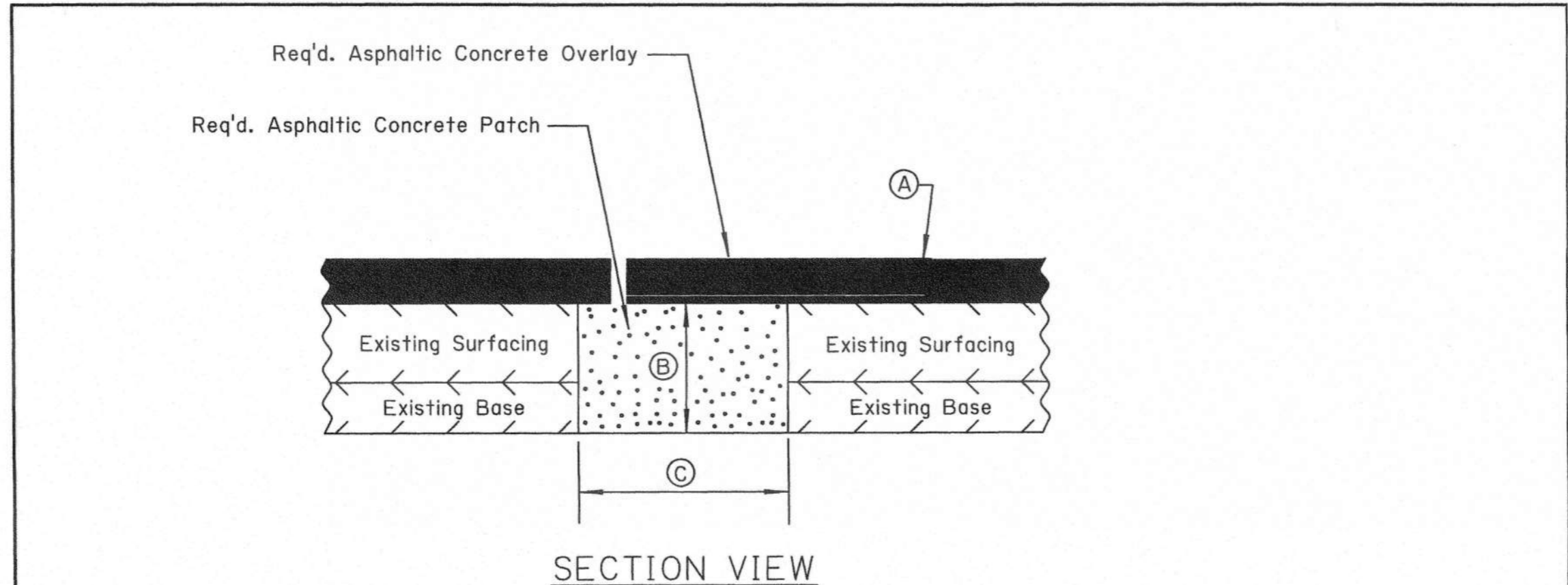
Nominal Diameter	Strength/Schedule	Maximum* Span	Outside Diameter	Wall Thickness	Weight Per Foot
3"	Std/40	11'-2"	3.5"	0.216"	7.58 lbs

*Pipe Runners are designed for a traversing load of 1800 pounds at yield.

STATE OF LOUISIANA
 WILLIAM M. RAY
 REG. No. 24936
 REGISTERED PROFESSIONAL ENGINEER
 IN CIVIL ENGINEERING
 1-24-98

SPECIAL DETAIL NO.	SETSD2	SHEET	1 OF 1
SIDE DRAIN SAFETY END TYPE 2			
Pipe Sizes: 30" - 48" RCP 30" - 54" CMP 24" Eq. - 36" Eq. RCPA 24" Eq. - 42" Eq. CMPA			
DATED April 22, 1991			
STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT			
DESIGNED PAA	DETAILED KAJ	DIR. spdetail/sofyend	
CHECKED JCM	CHECKED PAA	FILE softsd2.dgn	
HYDRAULICS SECTION			

DATE	DESCRIPTION	BY
1-16-96	Added Special Detail Name SETSD2	JCM
1-24-94	General Revisions	MR
6-24-92	Added Precast Alternate & revised Cast-In-Place	PAA
8-5-91	General Revisions	PAA



SECTION VIEW

- (A) Asphaltic concrete overlay type and payment to be as shown elsewhere in plans
- (B) Patch shall extend to bottom of base course but not less than thickness stated in pay item
- (C) Patch limits as directed by Project Engineer

NOTES:
 1. All work on this detail, except the asphaltic concrete overlay, to be paid for under item labeled: Pavement Patching.
 2. Patch locations to be as directed by Project Engineer.
 3. Detail not to scale.

Benjamin C. Thomas
 9-6-16

DOTD DOTD ROAD DESIGN	PAVEMENT PATCHING WITH HMAC		DESIGNED	BCT	PARISH		SHEET NUMBER
	CPR-07		CHECKED		CONTROL SECTION		
			DETAILED	TDL	STATE		
			CHECKED	BCT	PROJECT		
			SERIES NUMBER	8-25-16 1 OF 1			
			NO.		DATE		
			REVISION OR CHANGE ORDER DESCRIPTION				
			BY				

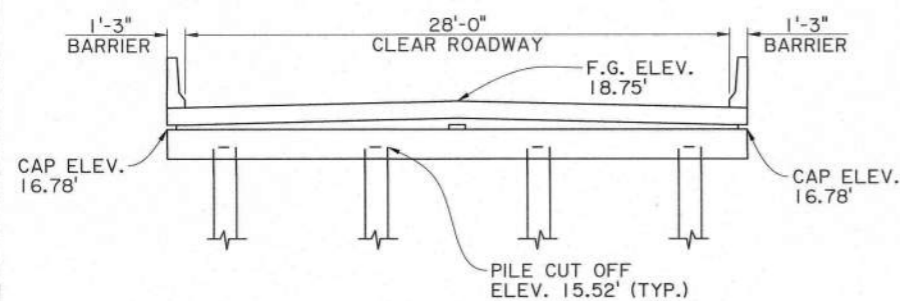
These standard plans have been properly examined by me, the undersigned Louisiana professional engineer. I have determined that these plans comply with all applicable Louisiana codes and have been properly site adapted to use in this area.

Chris Nipper
 10-21-19

SHEET NUMBER	18
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
DETAILED	C. NIPPER
CHECKED	J. LOHMANN
SERIES NUMBER	
PARISH	ST. TAMMANY
CONTROL SECTION	
PARISH PROJECT	PW 18000146
NO.	
DATE	
REVISION OR CHANGE ORDER DESCRIPTION	
BY	
PAVEMENT PATCHING DETAIL	
1-10 SERVICE RD. BRIDGE REPLACEMENTS	

HYDRAULIC DATA TABLE*			
Drainage Area (mi ²):	0.130		
Basin Slope (ft/mi):	1.0		
Structure	Existing Bridge	Proposed Bridge	Proposed Bridge
Size & Type	4x19 Conc. Slab Spans	5x20 Conc. Slab Spans	5x20 Conc. Slab Spans
Flood Frequency (year)	Design Year 50	Design Year 50	100
Discharge (ft ³ /s)	59	59	73
Design Water Surface Elev. (NAVD 88)	14.25	14.25	14.51
Average Velocity (ft/s)	0.28	0.28	0.33
Area of Opening (ft ²)	295	295	308
Backwater (ft)	0.01	0.01	0.01
Bridge Scour Elev. (NAVD 88)	5.68	5.68	5.68

* USE MINIMUM SCOUR DEPTH 5.0'



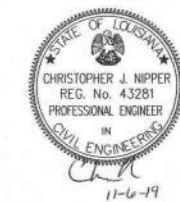
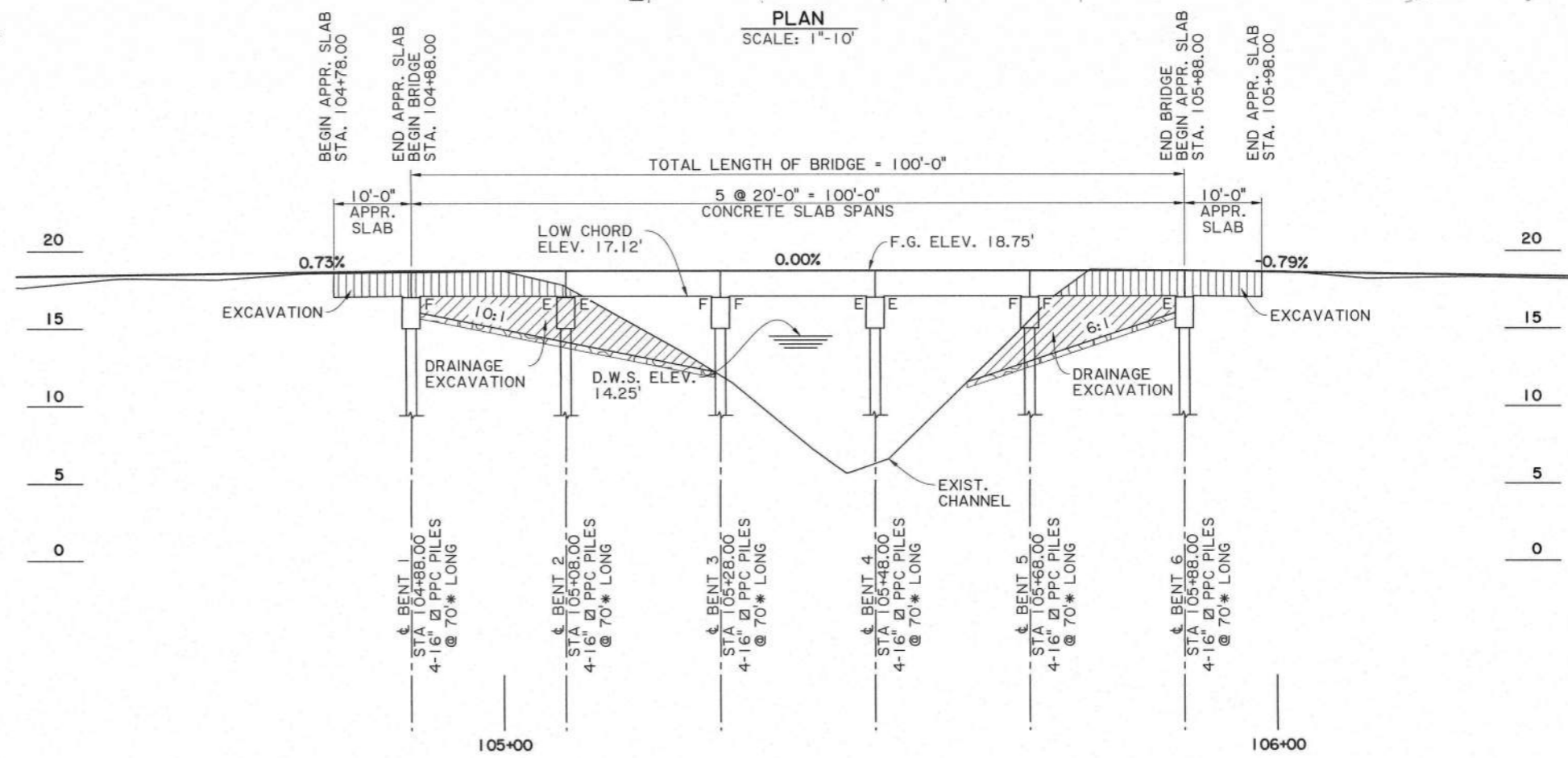
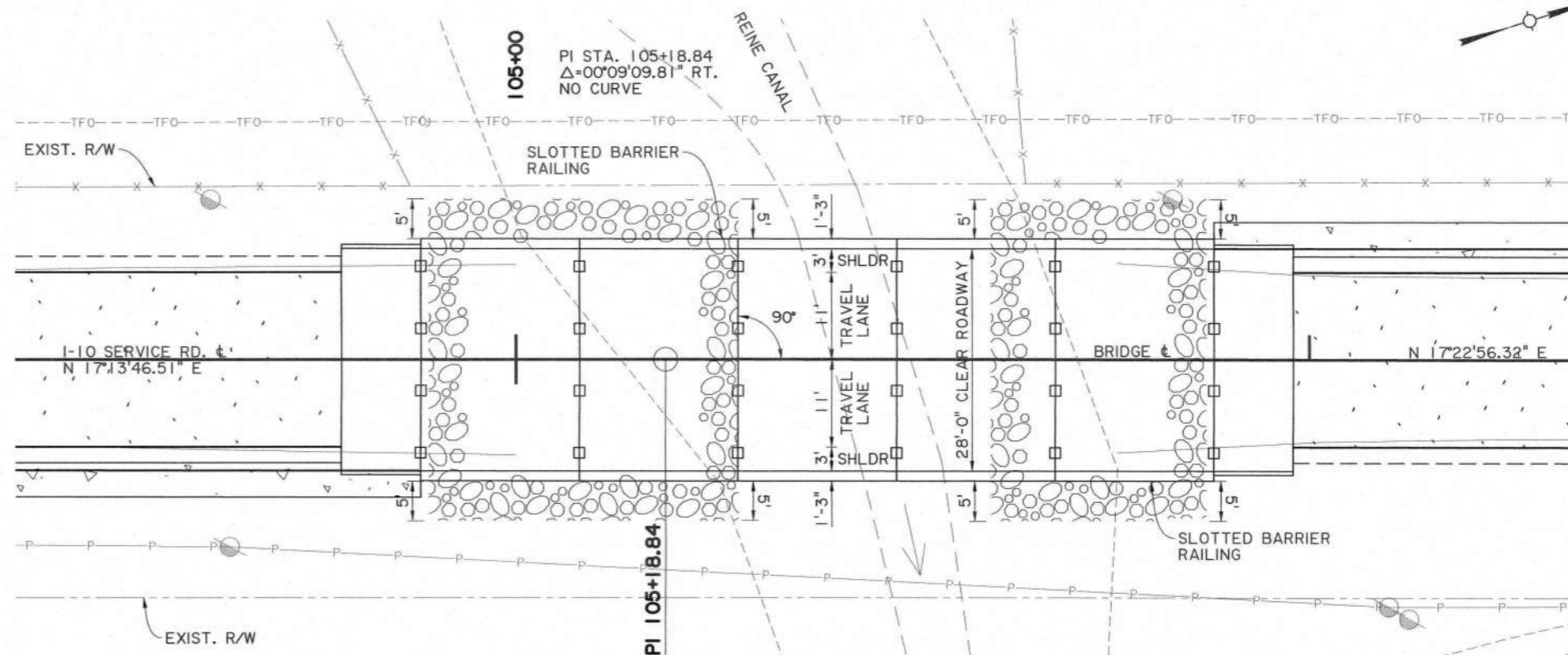
REQUIRED STRUCTURE:
CAST-IN-PLACE 100' CONCRETE SLAB SPAN BRIDGE
(5-20' SPANS @ 90° SKEW
28' CLEAR ROADWAY WIDTH)

EXISTING STRUCTURE TO BE REMOVED
STRUCTURE NO. B08L020
STATION 105+00 TO 105+76
CONCRETE SLAB SPAN BRIDGE
STRUCTURE LENGTH = 76'

NOTES:

- ALL SALVAGEABLE MATERIAL, AS DETERMINED BY THE PROJECT ENGINEER, TO BE LOADED ONTO PARISH TRUCKS BY THE CONTRACTOR (INCLUDED IN ITEM 202-02-04000). THIS NOTE WILL BE DISCUSSED AT PLAN-IN-HAND.
- UNSAVAGEABLE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF BEYOND THE LIMITS OF THE R/W.
- FOR ADDITIONAL GUARD RAIL INFORMATION, SEE GUARD RAIL STANDARDS.
- ALL AREAS OF BRIDGE EMBANKMENT SLOPE AND DISTURBED SOIL NOT RECEIVING REVETMENT ARE TO BE SEEDED AND FERTILIZED.
- ALL EXCAVATION AND FILL TO BE IN PLACE BEFORE DRIVING AFFECTED PILES.
- DATE OF CONSTRUCTION REQUIRED EACH END OF BRIDGE. SEE STANDARD DETAIL YP-01.
- UTILITIES TO BE RELOCATED BY OTHERS.
- EXISTING PILES ARE TO BE CUT OFF 1 FOOT BELOW THE GROUND LINE. CONTRACTOR IS TO REMOVE ANY PILES INTERFERING WITH THE INSTALLATION OF NEW PILES (INCLUDED IN ITEM 202-02-04000).
- ANY DISTURBED FENCE SHALL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.
- EXISTING CHANNEL HAS RIPRAP AND IT IS TO REMAIN, WHERE APPLICABLE. ANY RIPRAP DISTURBED SHALL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.

*THE LENGTHS SHOWN ARE APPROXIMATE. ACTUAL PILE ORDER LENGTHS WILL BE PROVIDED AFTER COMPLETION OF INDICATOR PILE EVALUATION.



SHEET NUMBER	101
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
PARISH	ST. TAMMANY
CONTROL SECTION	
Detailed	C. NIPPER
Checked	J. LOHMANN
PARISH	
PROJECT	PW 18000146
REVISION OR CHANGE ORDER DESCRIPTION	
DATE	
NO.	
BY	

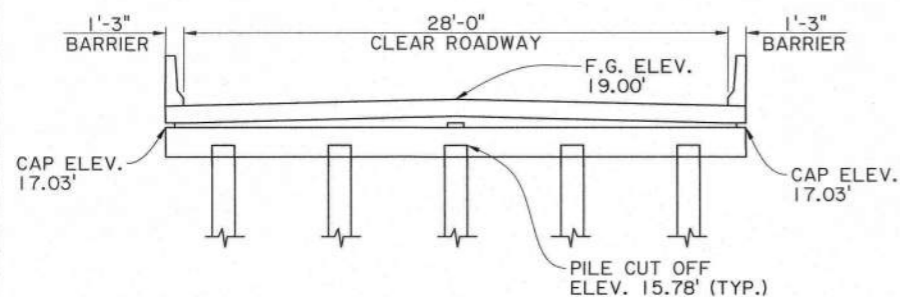
GENERAL BRIDGE PLAN
REINE CANAL

1-10 SERVICE RD. BRIDGE REPLACEMENTS

GEC
Civil Engineers & Consultants

HYDRAULIC DATA TABLE*			
Drainage Area (mi ²):	2.618		
Basin Slope (ft/mi):	2.3		
Structure	Existing Bridge	Proposed Bridge	Proposed Bridge
Size & Type	4x19 Conc. Slab Spans	5x20 Conc. Slab Spans	5x20 Conc. Slab Spans
Flood Frequency (year)	Design Year 50	Design Year 50	100
Discharge (ft ³ /s)	764	764	1084
Design Water Surface Elev. (NAVD 88)	15.09	15.06	15.47
Average Velocity (ft/s)	2.42	2.30	3.05
Area of Opening (ft ²)	316	338	355
Backwater (ft)	0.38	0.35	0.62
Bridge Scour Elev. (NAVD 88)	5.45	5.61	5.49

* USE MINIMUM SCOUR DEPTH 5.0'



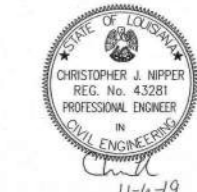
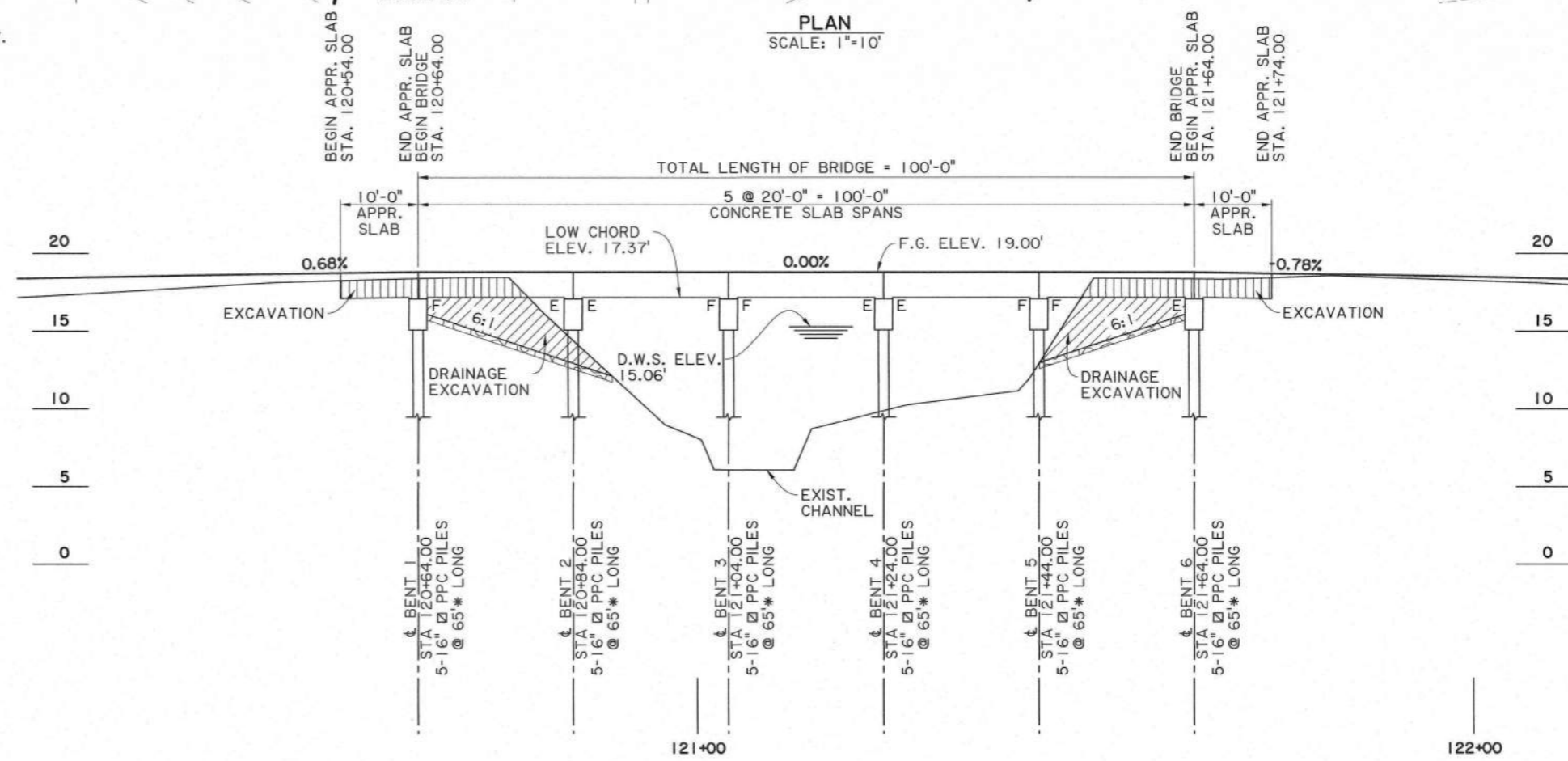
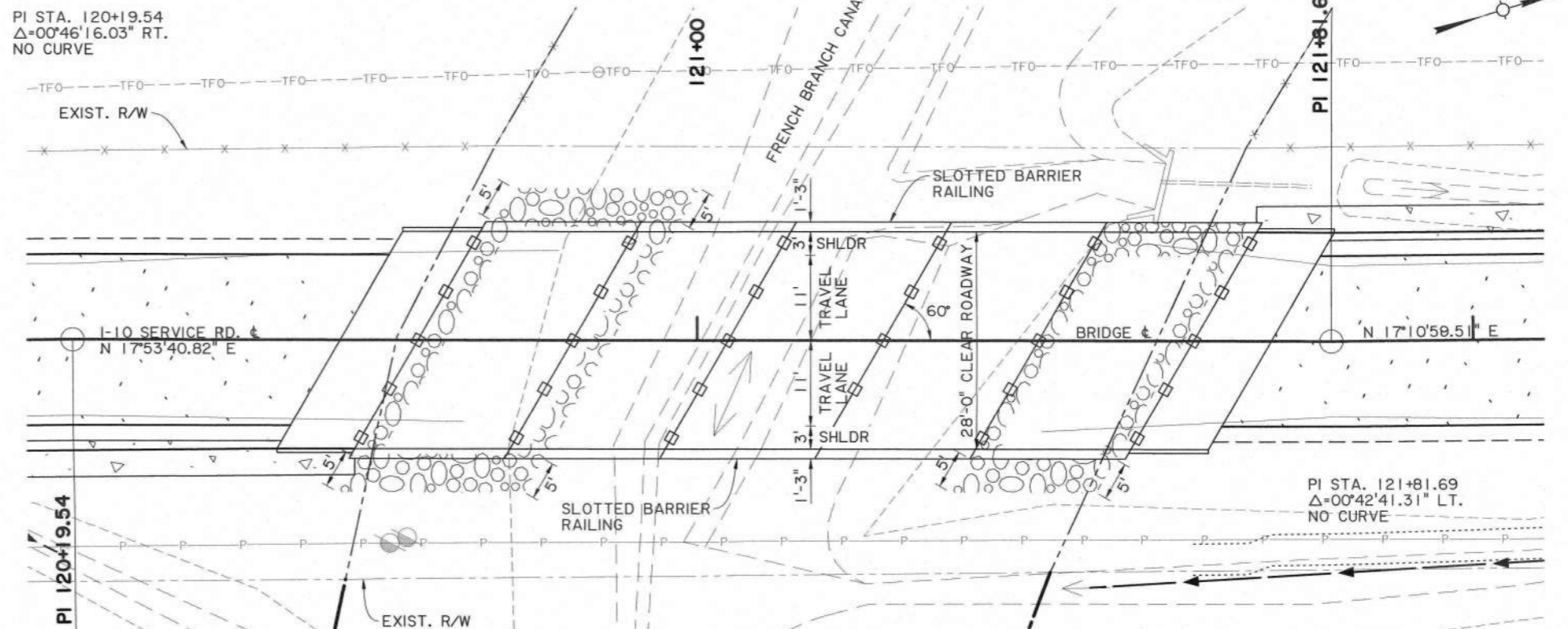
TYPICAL BRIDGE SECTION (N.T.S.)

REQUIRED STRUCTURE:
 CAST-IN-PLACE 100' CONCRETE SLAB SPAN BRIDGE
 (5-20' SPANS @ 60' SKEW
 28' CLEAR ROADWAY WIDTH)

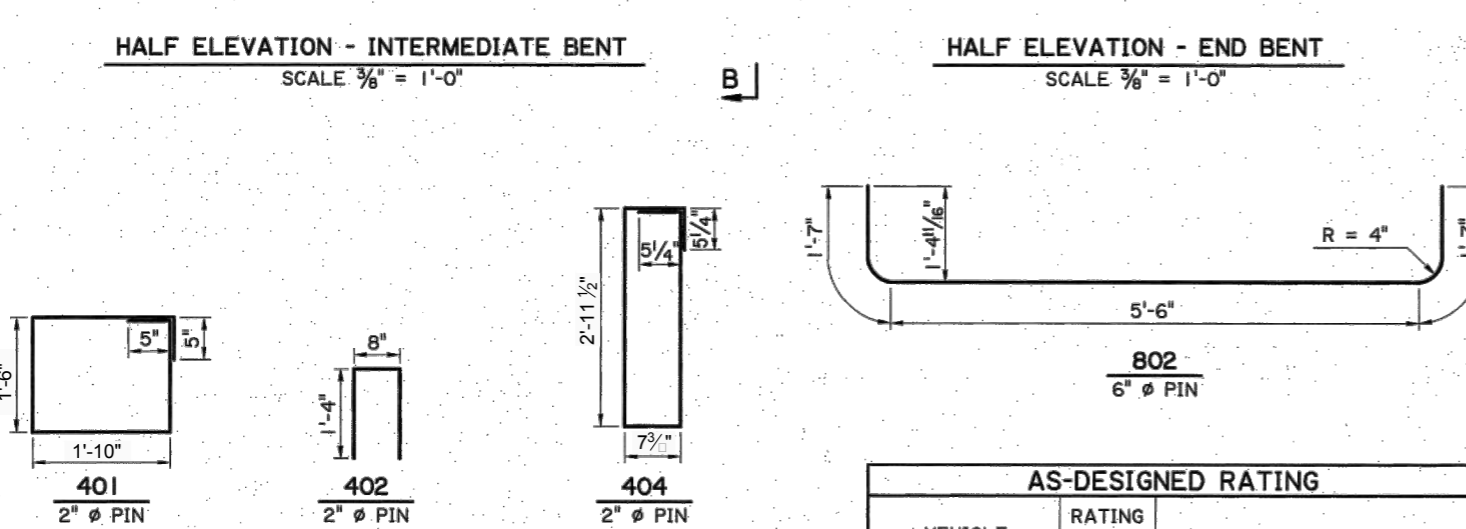
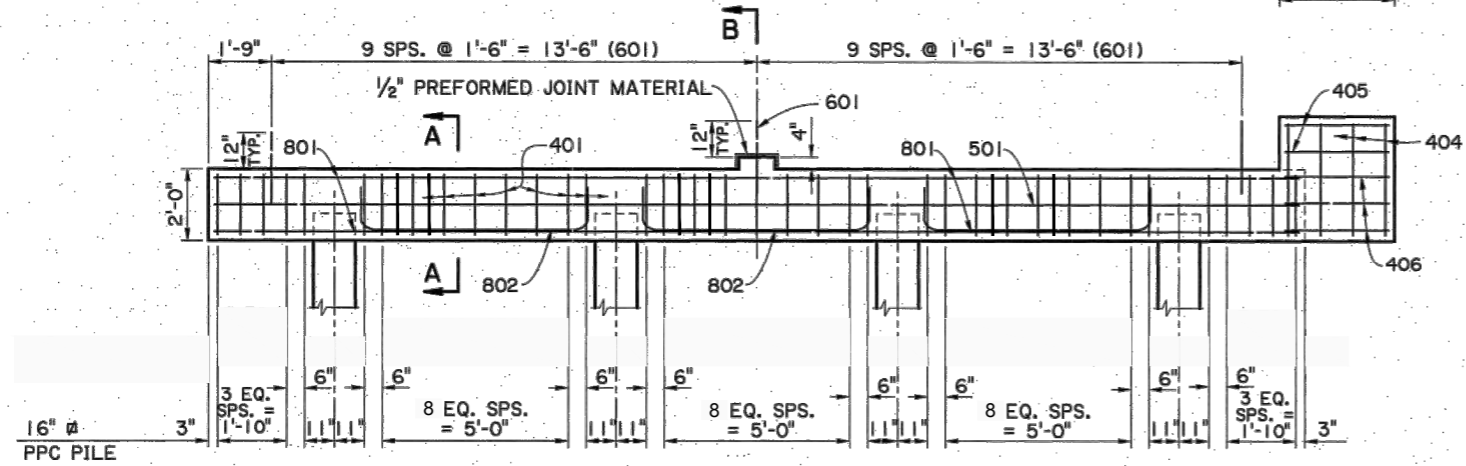
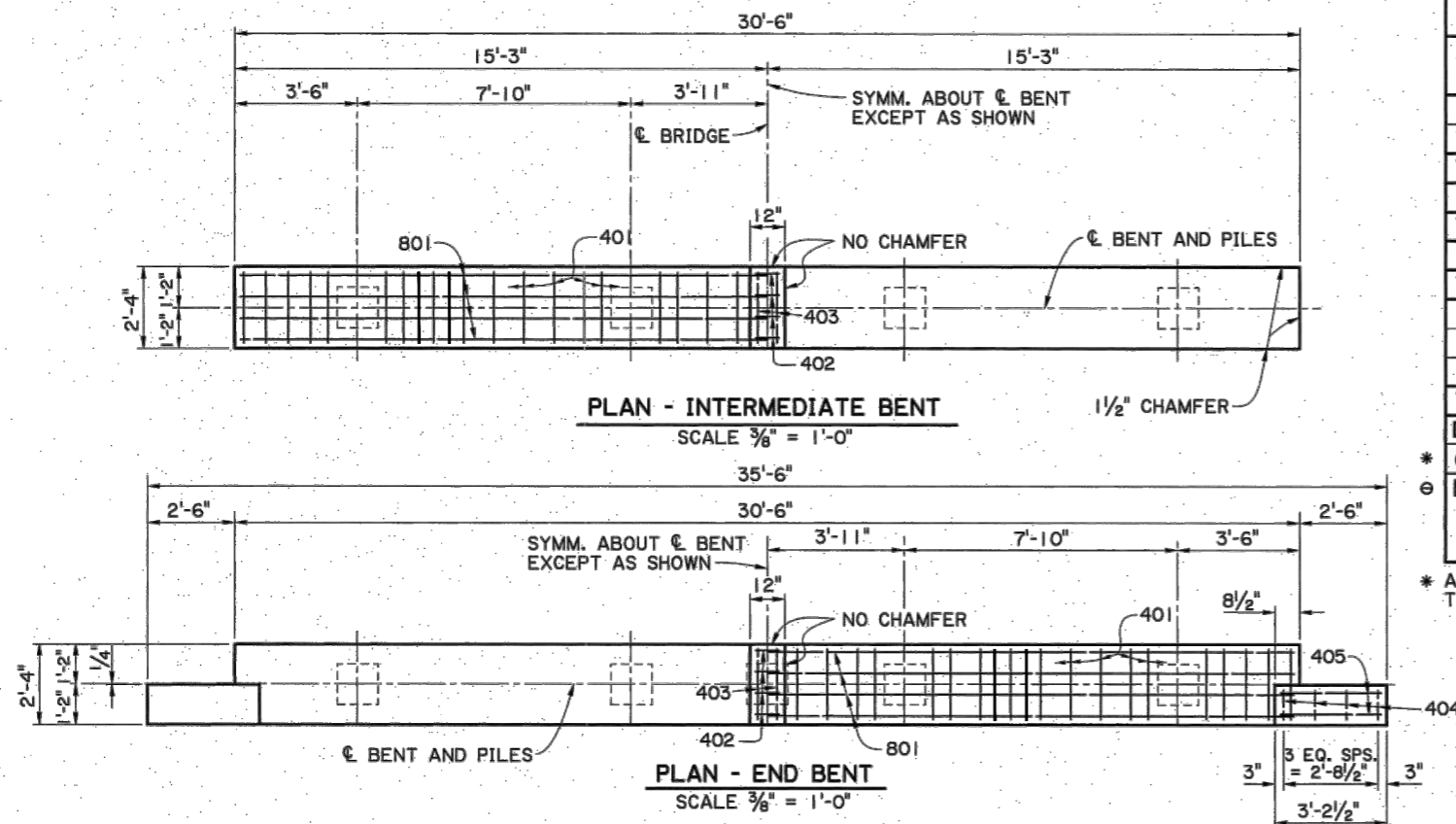
EXISTING STRUCTURE TO BE REMOVED
 STRUCTURE NO. B08L120
 STATION 120+75.70 TO 121+50.70
 CONCRETE SLAB SPAN BRIDGE
 STRUCTURE LENGTH = 75'

- NOTES:
1. ALL SALVAGEABLE MATERIAL, AS DETERMINED BY THE PROJECT ENGINEER, TO BE LOADED ONTO PARISH TRUCKS BY THE CONTRACTOR (INCLUDED IN ITEM 202-02-04000). THIS NOTE WILL BE DISCUSSED AT PLAN-IN-HAND.
 2. UNSALVAGEABLE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF BEYOND THE LIMITS OF THE R/W.
 3. FOR ADDITIONAL GUARD RAIL INFORMATION, SEE GUARD RAIL STANDARDS.
 4. ALL AREAS OF BRIDGE EMBANKMENT SLOPE AND DISTURBED SOIL NOT RECEIVING REVETMENT ARE TO BE SEEDED AND FERTILIZED.
 5. ALL EXCAVATION AND FILL TO BE IN PLACE BEFORE DRIVING AFFECTED PILES.
 6. DATE OF CONSTRUCTION REQUIRED EACH END OF BRIDGE. SEE STANDARD DETAIL YP-01.
 7. UTILITIES TO BE RELOCATED BY OTHERS.
 8. EXISTING PILES ARE TO BE CUT OFF 1 FOOT BELOW THE GROUND LINE. CONTRACTOR IS TO REMOVE ANY PILES INTERFERING WITH THE INSTALLATION OF NEW PILES (INCLUDED IN ITEM 202-02-04000).
 9. ANY DISTURBED FENCE SHALL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.
 10. EXISTING CHANNEL HAS RIPRAP AND IT IS TO REMAIN, WHERE APPLICABLE. ANY RIPRAP DISTURBED SHALL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.

*THE LENGTHS SHOWN ARE APPROXIMATE. ACTUAL PILE ORDER LENGTHS WILL BE PROVIDED AFTER COMPLETION OF INDICATOR PILE EVALUATION.



SHEET NUMBER	102
DESIGNED	C. NIPPER
CHECKED	J. LOHMANN
DETAILED	C. NIPPER
CHECKED	J. LOHMANN
PARISH	ST. TAMMANY
CONTROL SECTION	
PARISH PROJECT	PW18000146
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	DATE
GENERAL BRIDGE PLAN FRENCH BRANCH CANAL I-10 SERVICE RD. BRIDGE REPLACEMENTS	



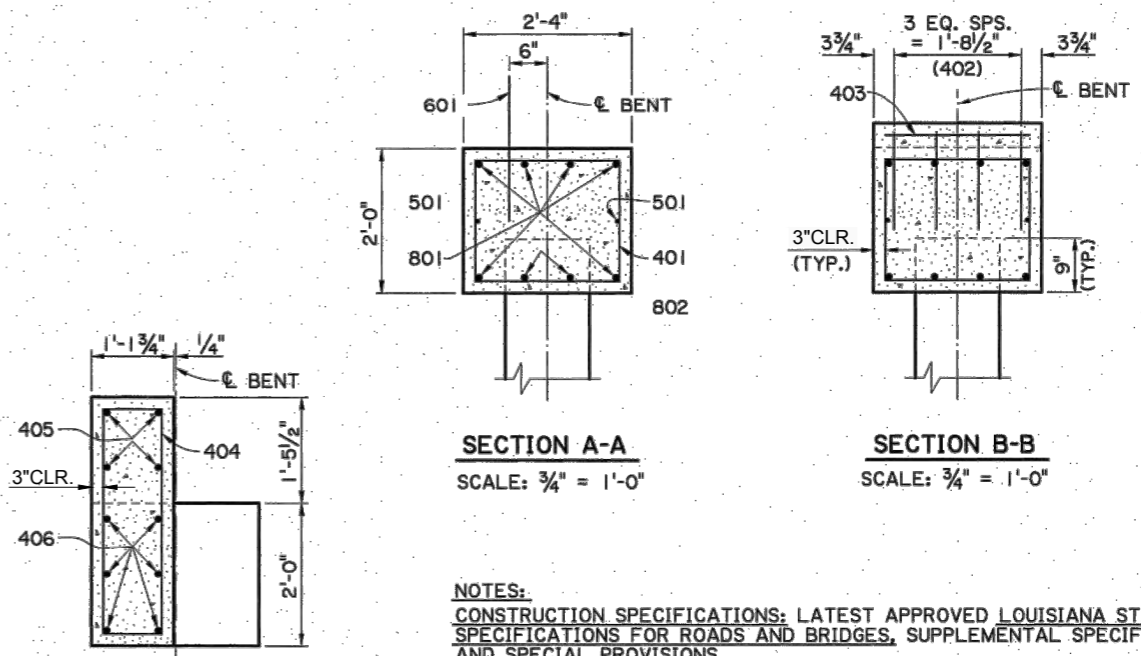
AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	2.18	—
HL-93 (OPR)	2.83	—
LADV-11 (INV)	1.68	MAGNIFICATION FACTOR = 1.3

ESTIMATED QUANTITIES (ONE INTER. BENT)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	6	30'-2"	181'-0"	LONGIT. IN CAP
802	6	8'-8"	52'-0"	LONGIT. IN CAP BTW. PILES
TOTAL NO. 8 BARS = 233'-0" = 622 LBS.				
601	19	2'-0"	38'-0"	DOWELS
TOTAL NO. 6 BARS = 38'-0" = 57 LBS.				
501	2	30'-2"	60'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 60'-4" = 63 LBS.				
401	3	7'-6"	322'-6"	STIRRUPS IN CAP
402	4	3'-4"	13'-4"	STIRRUPS IN RISER
403	2	2'-0"	4'-0"	LONGIT. IN RISER
TOTAL NO. 4 BARS = 339'-10" = 227 LBS.				
DEFORMED REINFORCING STEEL = 969 LBS.				
* CLASS A1 CONCRETE BENT CAP = 5.10 CU. YDS.				
* MAX. PILE LOAD: SERVICE DEAD LOAD = 23 TONS				
SERVICE LIVE LOAD = 38 TONS				
FACTORED TOTAL LOAD = 80 TONS				

ESTIMATED QUANTITIES (ONE END BENT)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	6	30'-2"	181'-0"	LONGIT. IN CAP
802	6	8'-8"	52'-0"	LONGIT. IN CAP BTW. PILES
TOTAL NO. 8 BARS = 233'-0" = 622 LBS.				
601	19	2'-0"	38'-0"	DOWELS
TOTAL NO. 6 BARS = 38'-0" = 57 LBS.				
501	2	30'-2"	60'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 60'-4" = 63 LBS.				
401	3	7'-6"	322'-6"	STIRRUPS IN CAP
402	4	3'-4"	13'-4"	STIRRUPS IN RISER
403	2	2'-0"	4'-0"	LONGIT. IN RISER
404	8	8'-1"	60'-8"	STIRRUPS IN WINGWALL
405	8	2'-10"	22'-8"	LONGIT. IN WINGWALL
406	12	4'-0"	48'-0"	LONGIT. IN WINGWALL
TOTAL NO. 4 BARS = 75'-2" = 317 LBS.				
DEFORMED REINFORCING STEEL = 1059 LBS.				
CLASS A1 CONCRETE BENT CAP = 5.92 CU. YDS.				
* MAX. PILE LOAD: SERVICE DEAD LOAD = 23 TONS				
SERVICE LIVE LOAD = 38 TONS				
FACTORED TOTAL LOAD = 80 TONS				

* ADD 57 LBS. OF REINFORCING STEEL (19-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

16" Ø PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.04 CU. YDS. OF CLASS A CONCRETE PER BENT WHEN 14" Ø PPC PILES ARE USED.)



NOTES:
CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION, WITH 2008 & 2009 INTERIMS.
DESIGN LOAD: LIVE LOAD IS HL-93, AND LADV-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED. ALL EXPOSED FACES OF WINGWALLS AND ENDS OF CAPS SHALL RECEIVE A SURFACE FINISH AS PER SUBSECTION 805.13 OF THE STANDARD SPECIFICATIONS, EXCEPT WHEN SPECIFIED ELSEWHERE IN THE PLANS.
REINFORCING STEEL: ALL REINFORCING SHALL BE GRADE 60. DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS, UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS, UNLESS OTHERWISE NOTED. DOWELS (601 BARS) SHALL BE PROVIDED AT ALL FIXED BEARINGS AND APPROACH SLAB BEARINGS (SEE GENERAL PLAN). ALL EXPOSED ENDS OF DOWELS SHALL BE WRAPPED WITH TWO LAYERS OF 15 LB. ASPHALT SATURATED FELT. CLOSE FITTING TUBES OF COMPRESSIBLE MATERIAL NOT LESS THAN 3/16" THICK MAY BE SUBSTITUTED.
PRECAST CONCRETE PILES: FOR DETAILS SEE STANDARD DETAIL CS-216. EXTERIOR PILES ARE TO BE BATTERED OUTWARD AT 1/2" ON 12" IN THE LONGITUDINAL DIRECTION OF THE BENT, WHEN NOTED ON THE GENERAL PLAN.
PREFORMED JOINT MATERIAL: PREFORMED JOINT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 805.12 OF THE STANDARD SPECIFICATIONS.





ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

March 24, 2020

Please find the following addendum to the below mentioned BID.

Addendum No.: 2

Bid#: 20-6-2

Project Name: I-10 Service Road Bridge Replacement

Bid Due Date: Tuesday, March 31, 2020

GENERAL INFORMATION:

1. Due to the size of file restrictions the attachments listed below can be found on the St. Tammany Parish website. It is the contractor/vendors responsibility to obtain the documents from the website. Please copy and paste the link provided to obtain a copy of the addendum <http://www.stpgov.org/index.php/i-want-to/apply-for/projects>
2. Estimated Budget is \$2.35 Million
3. The Parish will contact WST for all Utility issues.
4. This is not a Tax Exempt project.
5. Please remove Plan Sheet Page 3 - Summary Estimate Sheet and replace it with Plan Sheet Page 3 – Summary Estimate Sheet Revised. (Attached)
6. Please added the attached Five (5) Plan Sheets to the package. (Attached)
7. Please remove the Title Page of Plan Sheet and replace it with Revised Title Page.(Attached)
8. Please remove Section 04 - Unit Price Sheet and replace with Section 04 – Unit Price Sheet Revised. (Attached)
 - a. 708-01-00100- Right-of-Way Monument- This item has been removed.
 - b. 804-14-00100- Dynamic Monitoring Assistance- This item has increased in quantity.
 - c. 804-15-00100- Dynamic Monitoring Instrumentation- This item has been removed.
 - d. 502-01-00200 – Asphalt Concrete Drives, Turnouts and Misc.– This item has increased in quantity.
 - e. 702-03-00100 – Catch Basin (CB-01) - This item has increased in quantity.
 - f. 304-10-00100 – Lime – This item has been added.
 - g. 201-01-00100 – Clearing and Grubbing - This item has been added.
 - h. 202-02-00020 – Removal of Gravel Drives – This item has been added.
 - i. 202-02-02000 – Removal of Asphalt Drives – This item has been added.
 - j. 202-02-06100 – Removal of Concrete Walks and Drives – This item has been added.
 - k. 202-02-32140 – Removal of Pipe (Storm Drain)- This item has been added.

PROCUREMENT DEPARTMENT

P.O. BOX 628 | COVINGTON, LOUISIANA | 70434 | PROCUREMENT@STPGOV.ORG | 985-898-2520

WWW.STPGOV.ORG

- l. 701-04-01060 – Storm Drain Pipe Arch (30”RCP)- This item has been added.*
- m. 701-07-00300 – Yard Drain Pipe (8”) – This item has been added.*
- n. 707-03-00100 – Concrete Curb – This item has been added.*
- o. 714-01-00700 – Slab Sodding (Centipede) – This item has been added.*
- p. 726-01-00100 – Bedding Material – This item has increased in quantity.*
- q. 735-01 – Mailboxes – This item has been added.*
- r. 735-02 – Mailboxes Supports - This item has been added.*
- s. S-001 – Sewer Tie-ins – This item has been added.*
- t. S-002 – Top Soil (6”) – This item has been added.*
- u. 706-02-00200 – Concrete Drive (6” Thick) – This item has been added.*

9. Attached is the Mandatory Pre-Bid Sign-in Sheet. (Attached)

QUESTIONS & ANSWERS:

Question 1: Is there a subgrade soil survey available?

Answer1: We have attached the Soil Borings Logs.

Question 2: What percent of lime is expected on the project?

Answer2: 10% of Lime is expected on this project.

Question 3: In reference to Item 805-15-00100 Dynamic Monitoring Instrumentation, do you want the contractor to supply new dynamic monitoring equipment for St. Tammany parish that will become the property of St. Tammany Parish or do you want the contractor to have a testing lab supply and operate their own equipment? According to our testing lab the cost of new equipment is approximately \$65,000. I just want to clarify, is it your intention for the contractor to purchase the dynamic monitoring instrumentation for the owner to then use for testing with the contractor only providing assistance?

Answer 3: This bid item is being removed and the purchase of this equipment will not be necessary. St. Tammany Parish will secure testing services.

Question 4: Will the use of AIA 310 documents for the bid bonds be acceptable for this project?

Answer 4: Any Bid Bond Form is acceptable for this project. (AIA, Cashier’s Check, Surety Bond, Personal Check, etc.)

Question 5: Section 06 Page 3 of the Insurance Requirements has a box checked for Contractor's Professional Liability/Errors and Omissions. My Insurance agent says this is typically for Design/build projects. Is this required? Also, does Section 06 Insurance Requirements supersede Section 24.00 Insurance of the General Conditions as it relates to Builders Risk?

Answer 5: According to the Scope, the contractor is responsible for testing which always is an item for which we require Contractor's Professional. However, in addition, there are a set of design plans that the contractor is required to read, understand and follow. If the contractor miscalculates the information in the plans or if the plans are inadequate and the contractor is involved in a suit with the design expert, the Professional coverage is where that protection will lie. As for the testing, the contractor will probably come back and say they do not actually do the test, however, we have no contract with the testing firm, so the contractor becomes our fallback if the testing is improper – we look to the contractor and the contractor looks to the test facility he used. Professional and Pollution is required on all our road and bridge contracts over \$100,000 and this one is \$2M.

Question 6: When do you expect to release the addendum adding the roughly 1,200 lf of pipe?

Answer 6: Please see the Attached Unit Price Sheet Revised.

Question 7: How will clearing and grubbing be paid?

Answer 7: Please see the answer to Question 6.

Question 8: This project references 2016 LA DOTD Specs but the approach slab seems to follow the 2006 Specs, will the approach slab require a sleeper slab and bearing pads? Or is it to be as show on plan sheet 106 & 110?

Answer 8: See the attached Plan Sheets 110, 106 and 341 in regards to this question.

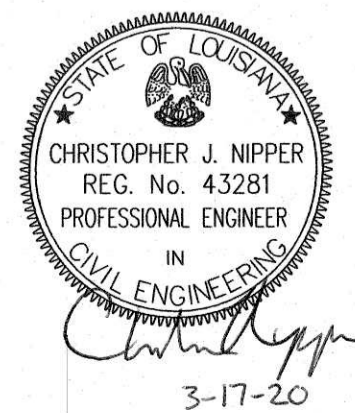
ATTACHMENTS:

- 1. Plan Sheet Page 3 – Summary Estimate Sheet Revised.pdf**
- 2. New Plan Sheets.pdf**
- 3. Revised Title Plan Sheet Page.pdf**
- 4. Unit Price Sheet Revised.pdf**
- 5. Mandatory Pre-Bid Sign-in Sheet.pdf**
- 6. Soil Borings Logs.pdf**
- 7. Plan Sheet 110.pdf**
- 8. Plan Sheet 106.pdf**
- 9. Plan Sheet 341.pdf**

End of Addendum # 2

FINAL PLANS

Item No.	Item Description	Unit	Quantity
201-01-00100	Clearing and Grubbing	ACRE	0.25
202-01-00100	Removal of Structures and Obstructions	LUMP	1
202-02-04000	Removal of Bridge (Sta. 105+37, 25.4' x 76' Timber Bridge)	EACH	1
202-02-04001	Removal of Bridge (Sta. 121+13, 25.4' x 76' Timber Bridge)	EACH	1
202-02-02020	Removal of Asphalt Pavement	SQYD	1603.6
203-02-00100	Drainage Excavation	CUYD	317
203-05-00100	Excavation and Embankment	LUMP	1
204-02-00100	Temporary Hay Bales	EACH	14
204-05-00100	Temporary Sediment Check Dams (Hay)	EACH	6
204-06-00100	Temporary Silt Fencing	LNFT	1395
302-02-14000	Class II Base Course (14" Thick)	SQYD	1916.5
304-01-00100	Lime	TON	15.1
304-05-00100	Lime Treatment (Type E)	SQYD	1917
502-01-00100	Asphalt Concrete	TON	1899.9
502-01-00200	Asphalt Concrete, Drives, Turnouts and Miscellaneous	TON	39.0
509-01-00100	Milling Asphalt Pavement	SQYD	12006
510-01-00200	Pavement Patching (12" Minimum Thickness)	SQYD	400
701-03-01022	Storm Drain Pipe (18" RCP/RPVC)	LNFT	36
701-03-01042	Storm Drain Pipe (24" RCP/RPVC)	LNFT	188
701-03-01100	Storm Drain Pipe (48" RCP/PP)	LNFT	65
701-04-01040	Storm Drain Pipe Arch (24" Equiv. RCPA)	LNFT	177
702-02-00100	Manholes (MH-06)	EACH	2
702-03-00100	Catch Basins (CB-01)	EACH	2
702-08-00200	Side Drain Safety End (Type 2)	EACH	2
704-03-00200	Blocked Out Guard Rail - 31", (6'-3" Post Spacing)	LNFT	50.0
704-07-00200	Guard Rail Transitions (Double Thrie Beam)	LNFT	100.0
704-10-00205	Guard Rail End Treatment, MASH, (TL-3 Tangent)	EACH	4
706-03-00100	Incidental Concrete Paving (4" Thick)	SQYD	212.0
711-01-04000	Riprap (55 lb, 18" Thick)	SQYD	475
713-01-00100	Temporary Signs and Barricades	LUMP	1
713-03-01000	Temporary Pavement Markings (Broken Line) (4" Width) (4' Length)	MILE	1.938
713-04-01000	Temporary Pavement Markings (Solid Line) (4" Width)	MILE	3.876
717-01-00100	Seeding	LB	10
718-01-00100	Fertilizer	LB	229
726-01-00100	Bedding Material	CUYD	108.4
727-01-00100	Mobilization	LUMP	1
729-16-00300	Object Marker Assembly (Type 3)	EACH	4
731-02-00100	Reflectorized Raised Pavement Markers	EACH	301
732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)	MILE	4.524
740-01-00100	Construction Layout	LUMP	1
804-01-00300	Precast Concrete Piles (16")	LNFT	3630
804-10-00300	Precast Concrete Indicator Piles (16")	EACH	2
804-14-00100	Dynamic Monitoring Assistance	EACH	10
804-18-00100	Vibration Monitoring	DAY	4
805-01-00100	Class A1 Concrete (Slab Span)	CUYD	293.30
805-01-00300	Class A1 Concrete (Bent Cap)	CUYD	68.86
805-18-00100	Concrete Finish (Class 2 Rubbed Finish)	SQFT	478
805-18-00200	Concrete Finish (Class 3 Special Finish)	SQFT	4497
806-01-00100	Deformed Reinforcing Steel	LB	67942
810-01-00200	Concrete Bridge Railing (Slotted)	LNFT	400
813-01-00100	Concrete Approach Slabs (Cast-in-Place)	SQYD	128
NS-500-00340	Saw Cutting Asphalt Concrete Pavement	INLF	533

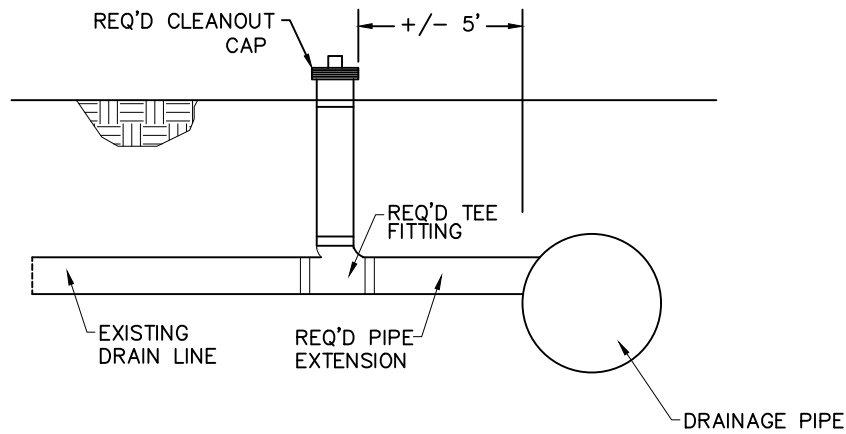


3-17-20

SHEET NUMBER		3
DESIGNED	C. NIPPER	ST. TAMMANY
CHECKED	J.L. OHMANN	
PARISH		
CONTROL SECTION		
PARISH PROJECT		PW18000146
DESIGNED	C. NIPPER	ST. TAMMANY
CHECKED	J.L. OHMANN	
PARISH		
CONTROL SECTION		
PARISH PROJECT		PW18000146
DESIGNED	C. NIPPER	ST. TAMMANY
CHECKED	J.L. OHMANN	
PARISH		
CONTROL SECTION		
PARISH PROJECT		PW18000146
NO.	DATE	BY
	REVISION OR CHANGE ORDER DESCRIPTION	
SUMMARY OF ESTIMATED QUANTITIES		
I-10 SERVICE RD. BRIDGE REPLACEMENTS		

NOTES:

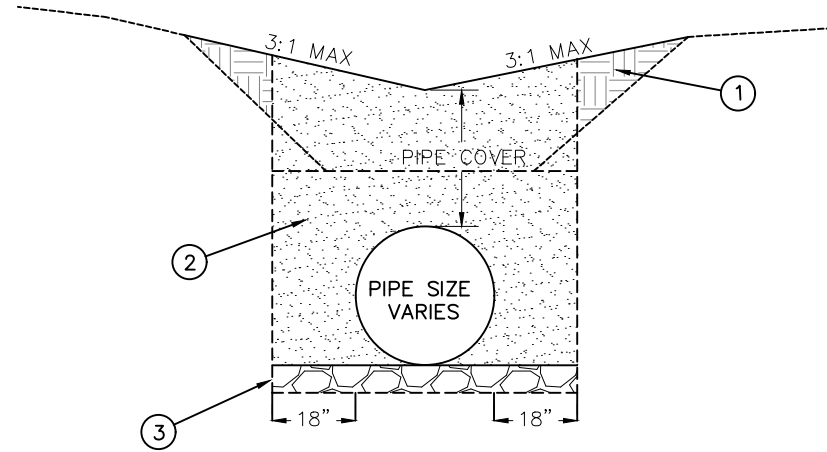
- BEFORE ANY EXCAVATION, THE CONTRACTOR IS REQUIRED TO CALL LOUISIANA ONE CALL FOR LOCATIONS OF UTILITIES AND SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UTILITIES.
- EROSION CONTROL PLAN SHALL BE SUBMITTED PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES.
- THE CONTRACTOR SHALL VERIFY INVERTS.
- ALL DITCHES AND DISTURBED AREA SHALL BE SEEDED OR SODDED.
- CATCH BASIN TOPS SHALL BE 6" MIN BELOW SURROUNDING GROUND, UNLESS PRIOR APPROVAL FROM PROJECT ENGINEERS OR INSPECTORS.
- JOINTS ARE REQUIRED IN CONCRETE PAVEMENT AND SHALL BE IN ACCORDANCE WITH LADOTD STANDARD SPECIFICATIONS, SECTION 601.
- ALL EXISTING DISCHARGES SHALL BE TIED INTO THE PROPOSED DRAINAGE SYSTEM, CONNECTIONS TO SUBSURFACE DRAINAGE SHALL INCLUDE A CLEAN OUT AT EACH LOCATION. ALL WORK ASSOCIATED WITH CONNECTION IS AT NO DIRECT PAY.
- ALL DRIVEWAYS SHALL BE REPLACED IN KIND.
- DRIVEWAY TIE INS SHALL MATCH EVELATIONS OF ADJACENT PAVEMENTS.
- CONTRACTOR SHALL ENSURE ALL PAVEMENT DRAINS WITHOUT PONDING OR BIRDBATHS.
- CONTRACTOR SHALL ENSURE ALL AREAS ACHIEVE POSITIVE DRAINAGE.



SEWER EFFLUENT PIPE TIE-IN

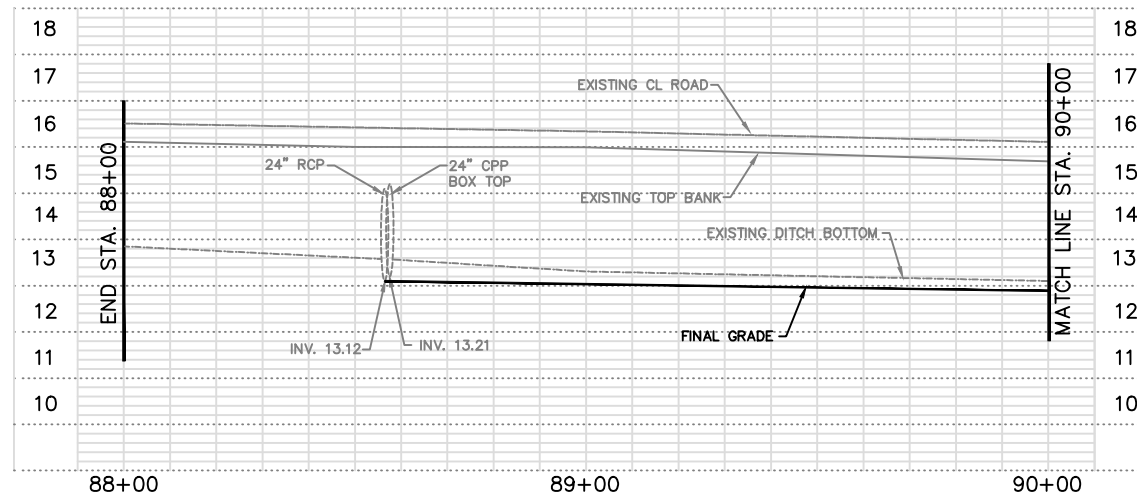
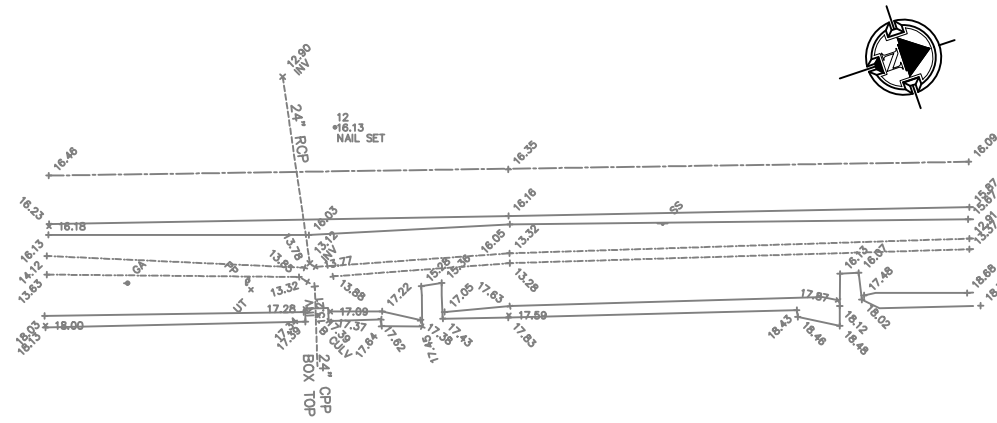
NOTES:

- SEWER TIE-INS AT NO DIRECT PAY
- SEWER EFFLUENT DETAIL FOR GENERAL CONFIGURATION ONLY. OTHER PIPE FITTINGS MAY BE REQUIRED TO ACCOMMODATE DRAINAGE PIPE
- PER LADOTD STANDARD SPECIFICATIONS, PIPE BACKFILL SHALL BE INCLUDED WITH THE COST OF THE PIPE.



- BORROW MATERIAL
- TYPE A COMPACTED BACKFILL (STONE, RPCC, OR FLOWABLE FILL) UNDER ROAD SURFACE
TYPE B COMPACTED BACKFILL (SELECTED SOILS, GRANULAR MATERIAL, OR THE ABOVE) ELSEWHERE
BACKFILL SHALL BE COMPACTED IN 8" MAXIMUM LIFTS
- BEDDING MATERIAL (STONE, RPCC, OR SAND-AGGREGATE MIX), 6" THICK

PIPE INSTALLATION DETAIL



I-10 EAST SERVICE ROAD

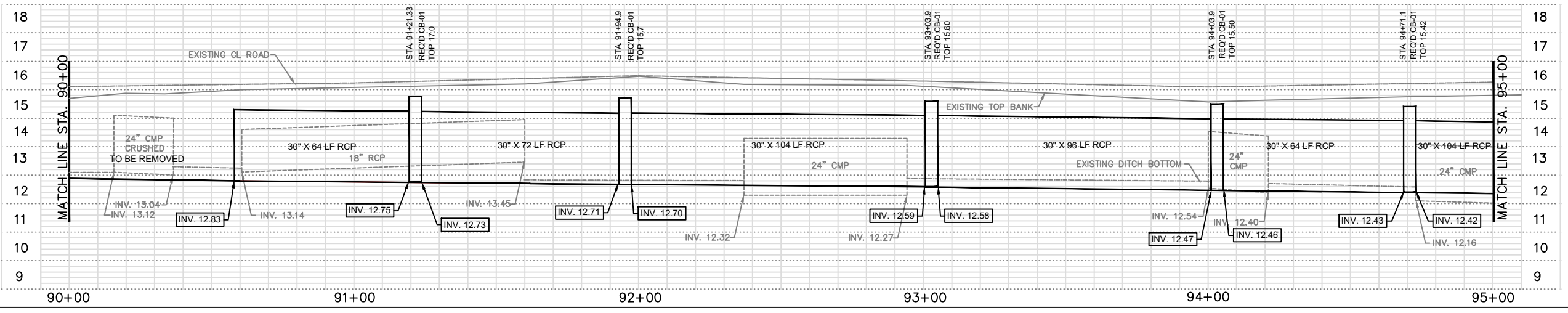
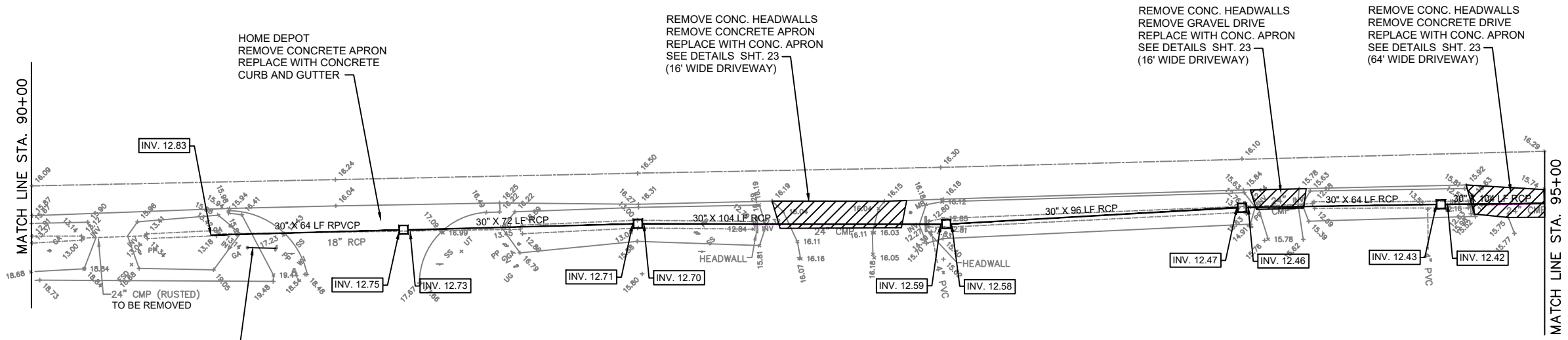
Rev. No	Date	Description

St. Tammany Parish Department of Engineering
P.O. Box 628 Covington, La. 70434
Phone: (985) 898-2502 Fax: (985) 898-5205
Fax: (985) 867-5110



19

Project No.	Date	Scale	Drawn By



I-10 EAST SERVICE ROAD

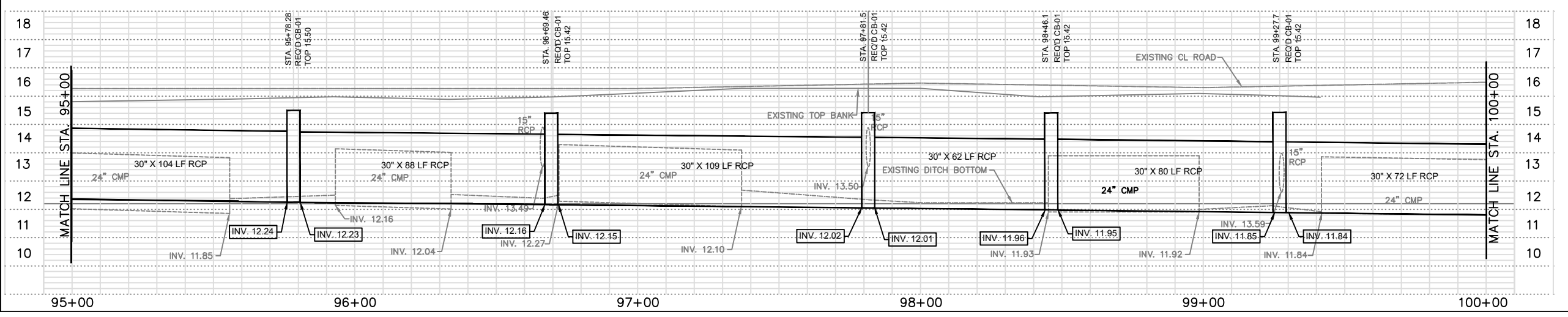
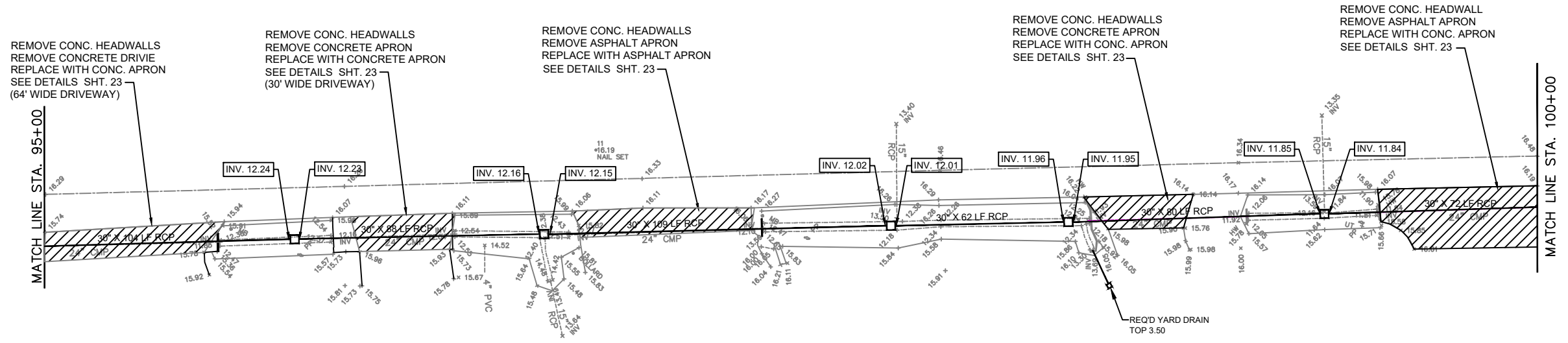
Rev. No	Date	Description

St. Tammany Parish Department of Engineering
 P.O. Box 628 Covington, La. 70434
 Phone (985) 898-2552 Fax: (985) 898-5025
 Fax: (985) 867-5110



Project No.	
Date	
Scale	
Drawn By	
Sheet	20

I-10 EAST SERVICE ROAD

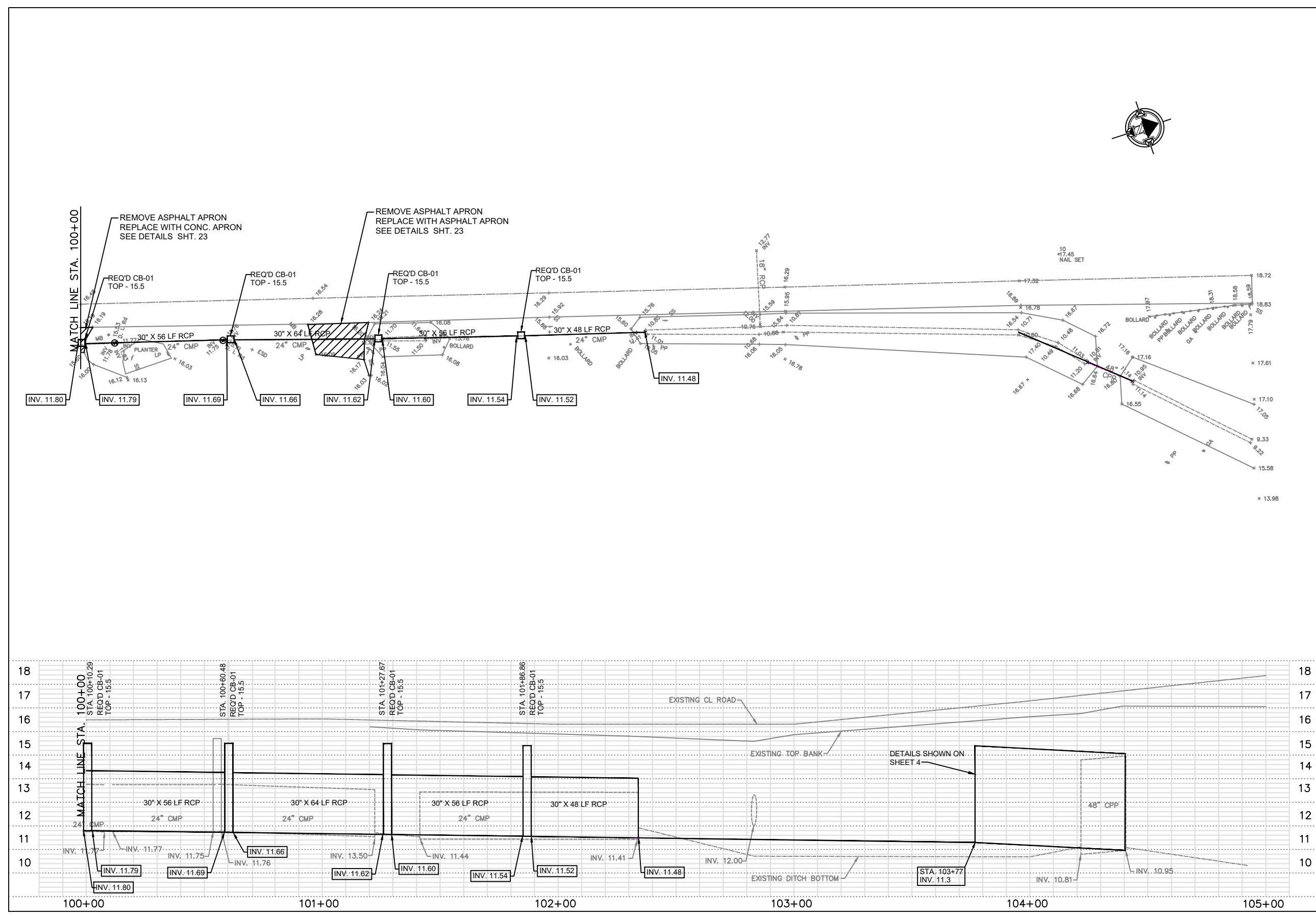


Rev. No.	Date	Description

St. Tammany Parish Department of Engineering
 P.O. Box 628 Covington, La. 70434
 Phone: (985) 898-2552 Fax: (985) 898-5025



Sheet **21**

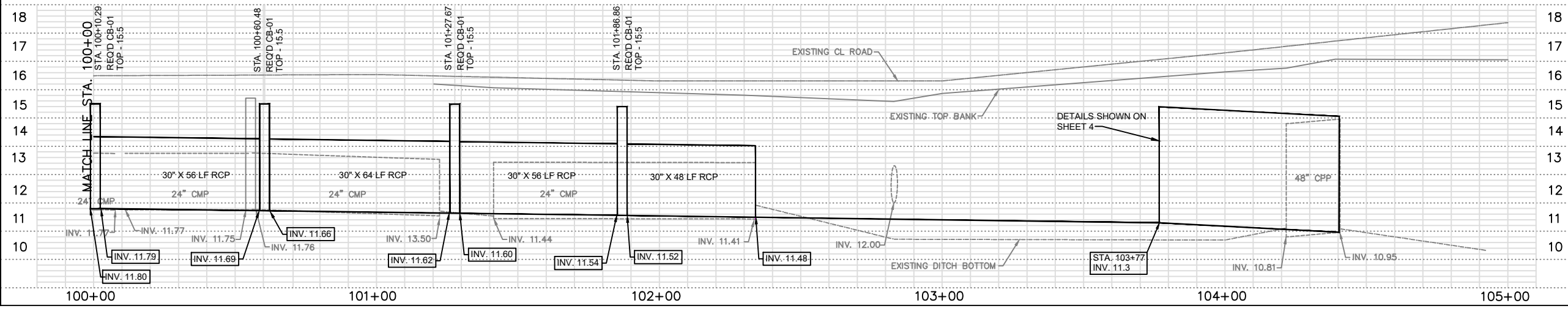


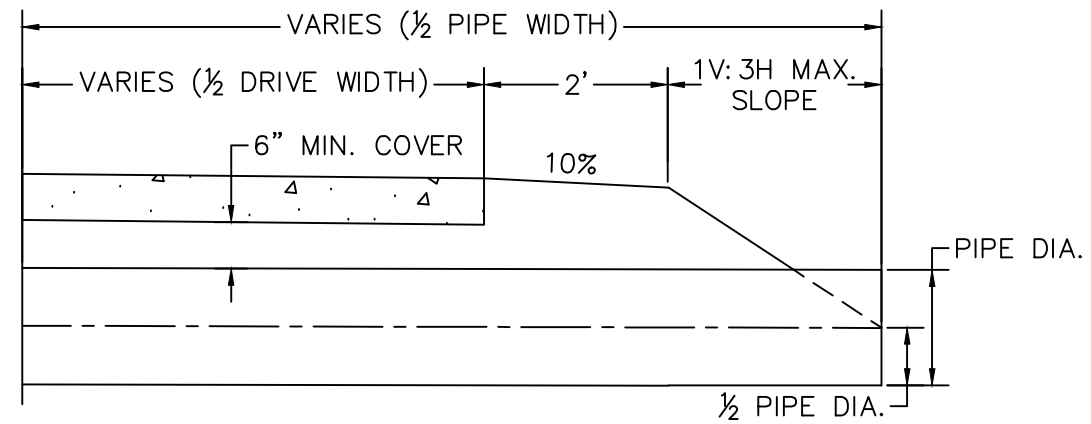
I-10 EAST SERVICE ROAD

Rev. No.	Date	Description

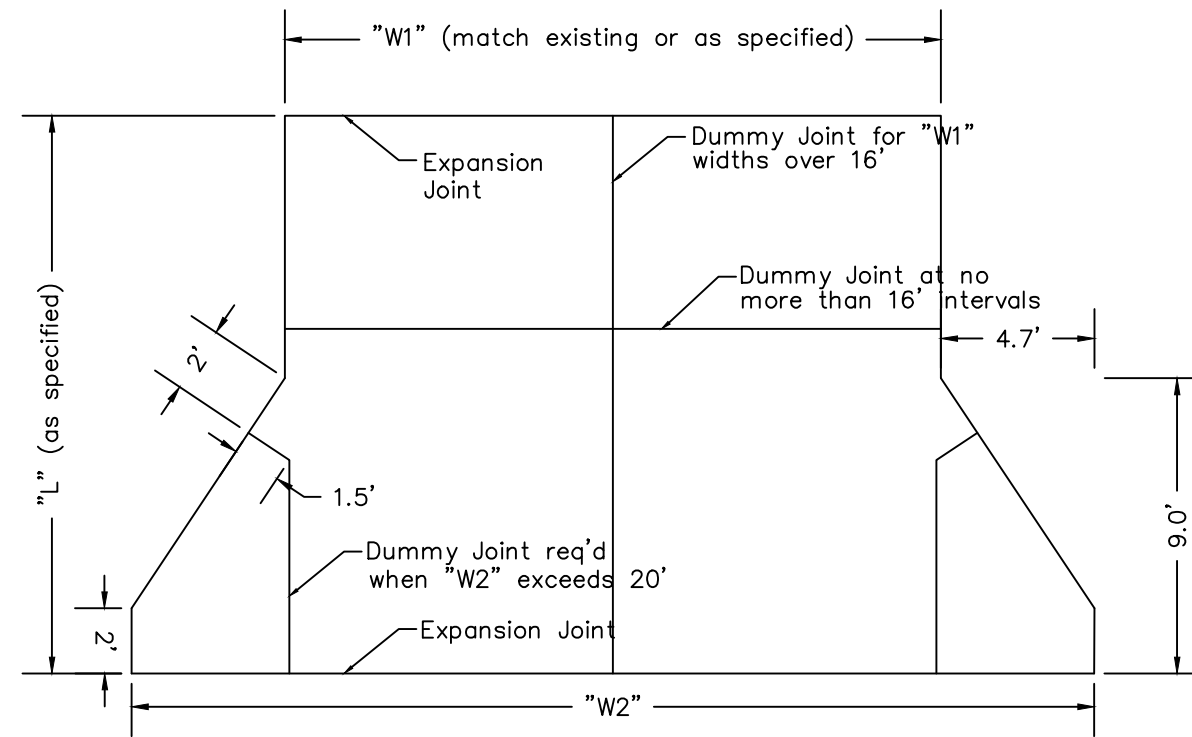
St. Tammany Parish Department of Engineering
 P.O. Box 628 Covington, La. 70434
 Phone: (985) 898-2552 Fax: (985) 898-5205
 Foc: (985) 887-5110

Sheet
 22
 Project No.
 Date
 Scale
 Drawn By

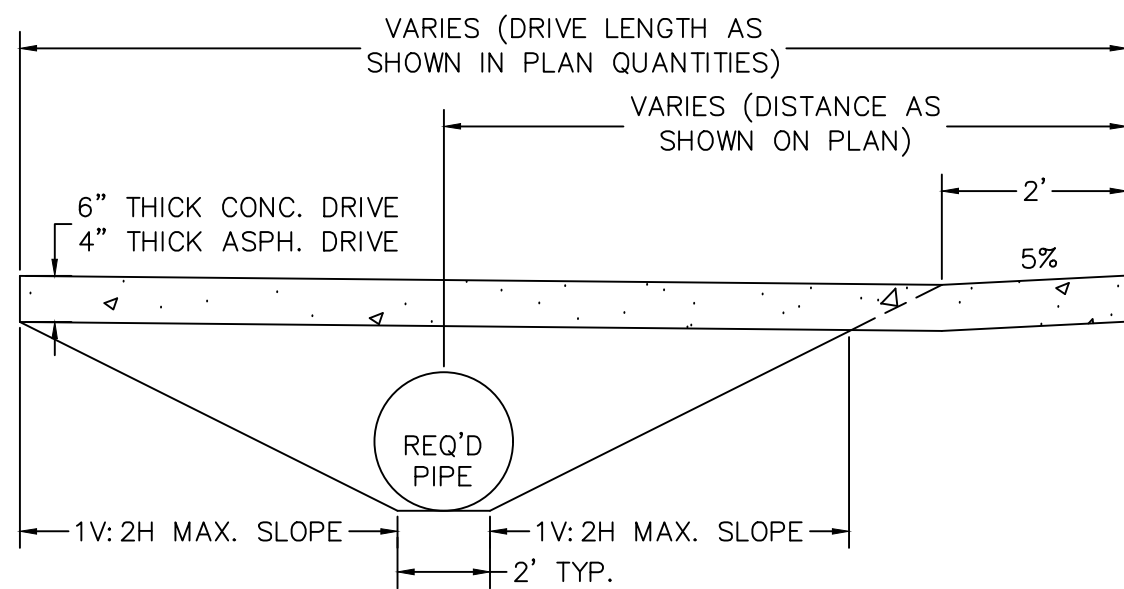




PROFILE OF TYPICAL DRIVE



PLAN OF TYPICAL DRIVE



ELEVATION OF TYPICAL DRIVE

FORMWORK SHALL BE INSPECTED PRIOR TO PAVING DRIVE. ANY DRIVES THAT ARE FORMED INCORRECTLY AND Poured PRIOR TO APPROVAL WILL RESULT IN NON-PAYMENT.

Rev. No.	Date	Description

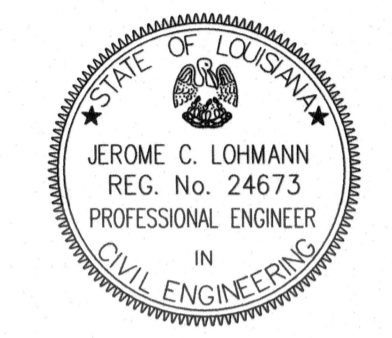
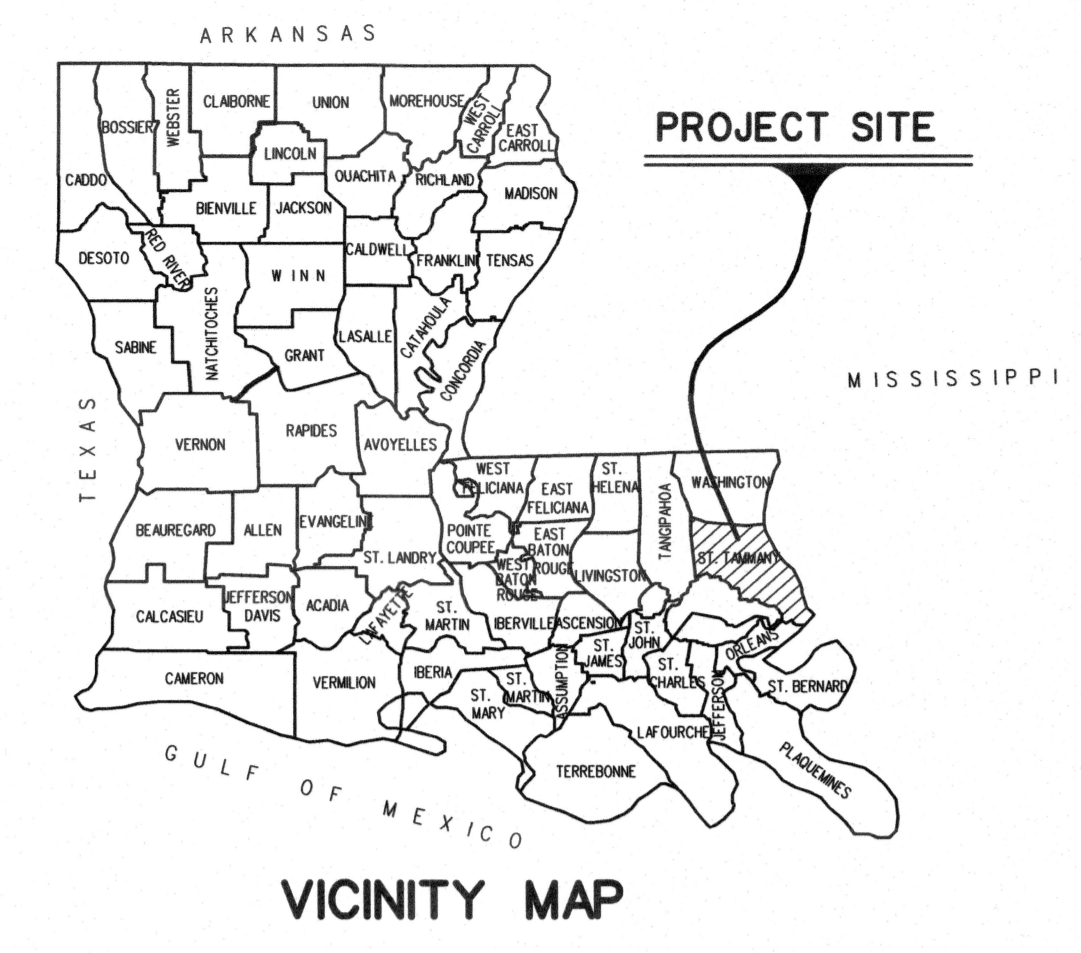
St. Tammany Parish
Department of Public Works
P.O. Box 638, Covington, LA 70434
Phone: (985) 898-2552
Fax: (985) 875-2816



Project No.	02-21-20	Sheet	23
Date		NTS	
Scale		MDR	
Drawn By			

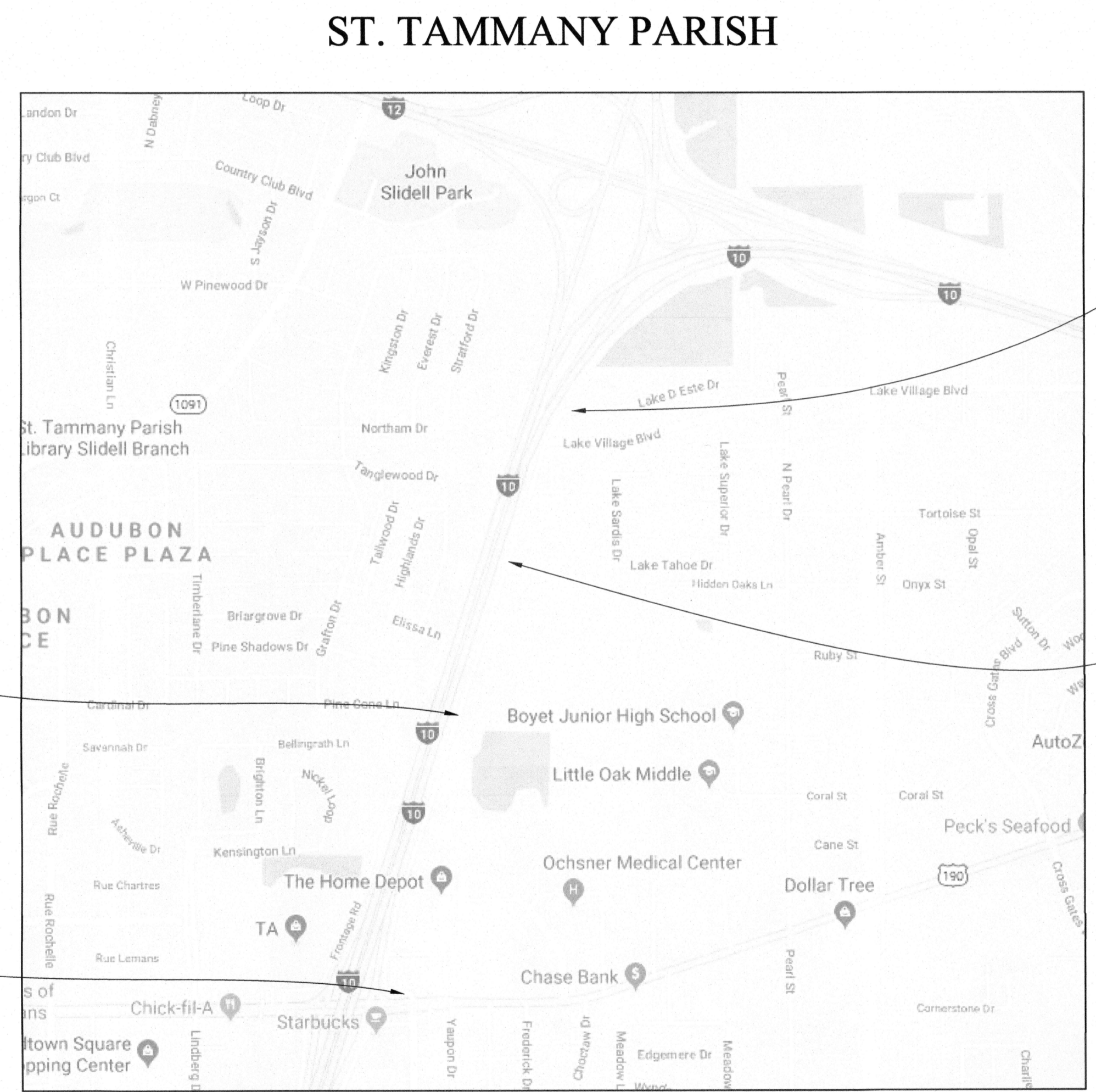
I-10 SERVICE RD. BRIDGE REPLACEMENTS

SLIDELL, LOUISIANA



APPROVED

G.E.C., INC.
 DATE 3-18-20



**BRIDGE SITE: 100'
STA. 104+88.00 TO
STA. 105+88.00
REINE CANAL**

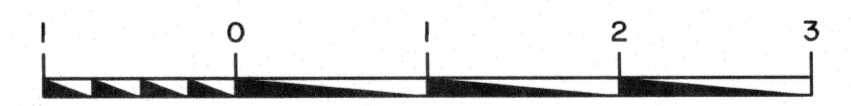
**BEGIN PROJECT
STA. 77+35.00**

**END PROJECT
STA. 137+06.00**

**BRIDGE SITE: 100'
STA. 120+64.00 TO
STA. 121+64.00
FRENCH BRANCH CANAL**

LAYOUT MAP

SCALE: 1 INCH = 1000 FEET



DATUM USED
HORIZONTAL: NAD 83, SOUTH ZONE 1702
VERTICAL: NAVD 88

STANDARD SPECIFICATIONS

THE 2016 EDITION OF THE LOUISIANA DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN.

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LAYOUT MAP
2-2a	TYPICAL SECTION AND DETAILS
3	SUMMARY OF ESTIMATED QUANTITIES
4-6	PLAN AND PROFILE
7	TBMs AND CONTROL POINTS
8-9	DRAINAGE MAP
10	SUMMARY OF DRAINAGE STRUCTURES
11	SUGGESTED TEMPORARY EROSION CONTROL
12	DETOUR SIGNING AND MAP
13-14	GUARDRAIL LAYOUT
15	SPECIAL DETAIL: SHOULDER WEDGE DETAIL
16	SPECIAL DETAIL: SETSD1
17	SPECIAL DETAIL: SETSD2
18	SPECIAL DETAIL: PAVEMENT PATCHING DETAIL

BRIDGE PLANS

101-102	GENERAL BRIDGE PLAN
103-106	90° CROSSING TWO WAY TANGENT
107-110	60° CROSSING TWO WAY TANGENT
111	PRE-CAST PRESTRESSED CONCRETE PILES
112-113	PILE DATA TABLE

STANDARD PLANS

SHEET NO.	DESCRIPTION	REV. DATE
301-302	BM-01 (2 SHEETS)	8/22/2007
303	CB-01	11/2/2000
304-305	EC-01 (2 SHEETS)	10/1/2008
306-316	GR-MASH-ON (11 SHEETS)	1/3/2019
317	GR-MASH-OFF	1/3/2019
318	HS-03	4/7/2014
319-324	MC-01 (6 SHEETS)	5/25/2018
325	MH-06	5/18/2011
326	PM-01	2/28/2019
327-330	TTC-00 (A-D) (4 SHEETS)	7/2/2018
331	TTC-03	7/2/2018
332	TTC-04	7/2/2018
333	TTC-16	7/2/2018
334	DW-02	11/7/2017
335-336	CONC. SURFACE FINISH (2 SHEETS)	
337	FR-01	5/30/2017
338	SWBS-100	3/6/2013
339	YP-01	8/28/2000
340	BR-01	7/18/2016
341	BD.2.10.1.0.07	6/19/2017

CROSS SECTIONS

401-409	CROSS SECTIONS
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TOTAL SHEETS = 82

DESIGN SPEED = 40 MPH

CLASSIFICATION = URBAN COLLECTOR

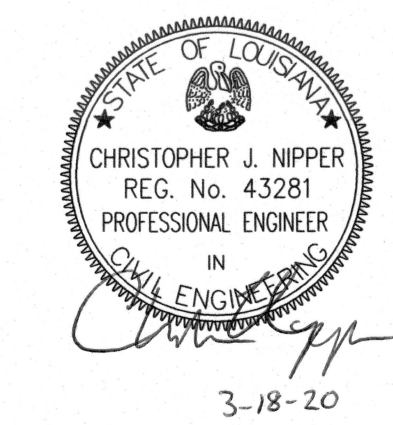
DATE	REVISION	DATE	RECOMMENDED	DATE	APPROVED

SCHEDULE OF REVISIONS

TYPE OF CONSTRUCTION

ASPHALT CONCRETE ROADWAY, BASE COURSE, LIME TREATMENT, GUARDRAIL, INCIDENTAL CONCRETE, EMBANKMENT, DRAINAGE STRUCTURES, CONCRETE SLAB SPAN BRIDGES, MILLING AND OVERLAY

SHEET NUMBER	1	PARISH	ST. TAMMANY	DESIGNED	C. NIPPER	CHECKED	J. LOHMANN	CONTROL SECTION	C. NIPPER	CHECKED	J. LOHMANN	PARISH PROJECT	SERIES NUMBER	BY
TITLE SHEET AND LAYOUT MAP I-10 SERVICE RD. BRIDGE REPLACEMENTS														



3-18-20

G:\Projects\St Tammany\I-10 Service Road Bridge Replacements\06 Design\Road\Addendum\001_titlesheet REVISED.dgn 3/18/2020 16:07

**LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM**

TO:

St. Tammany Parish Government
 21454 Koop Drive, Suite 2F
 Mandeville, LA. 70471
(OWNER TO PROVIDE NAME AND ADDRESS OF OWNER)

BID FOR:

I-10 Service Rd. Bridge Replacements
 REVISED
(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Structures and Obstructions				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Bridge (Sta. 105+37, 25.4' x 76' Timber Bridge)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-04000	1	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Bridge (Sta. 121+13, 25.4' x 76' Timber Bridge)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-04001	1	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Asphalt Pavement				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-02020	1603.6	SQYD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Drainage Excavation				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-02-00100	317	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Excavation and Embankment				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-05-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Hay Bales				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-02-00100	14	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Sediment Check Dams (Hay)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-05-00100	6	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Silt Fencing				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-06-00100	1395	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Class II Base Course (14" Thick)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
302-02-14000	1916.5	SQYD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Lime Treatment (Type E)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
304-05-00100	1917	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Asphalt Concrete				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502-01-00100	1899.9	TON		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Asphalt Concrete, Drives, Turnouts and Miscellaneous				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502-01-00200	89	TON		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Milling Asphalt Pavement				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
509-01-00100	12006	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Pavement Patching (12" Minimum Thickness)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
510-01-00200	400	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe (18" RCP/RPVCP)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
701-03-01022	36	LNFT		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe (24" RCP/RPVCP)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
701-03-01042	188	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe (48" RCP/PP)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
701-03-01100	65	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe Arch (24" Equiv. RCPA)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
701-04-01040	177	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Manholes (MH-06)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-02-00100	2	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Catch Basins (CB-01)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-03-00100	17	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Side Drain Safety End (Type 2)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-08-00200	2	EACH		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Blocked Out Guard Rail - 31", (6'-3" Post Spacing)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
704-03-00200	50	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Guard Rail Transitions (Double Thrie Beam)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
704-07-00200	100	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Guard Rail End Treatment, MASH, (TL-3 Tangent)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
704-10-00205	4	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Incidental Concrete Paving (4" Thick)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
706-03-00100	212	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Lime				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
304-10-00100	15.1	TON		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Riprap (55 lb, 18" Thick)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-01-04000	475	SQYD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Signs and Barricades				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
713-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Pavement Markings (Broken Line) (4" Width) (4' Length)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
713-03-01000	1.938	MILE		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Pavement Markings (Solid Line) (4" Width)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
713-04-01000	3.876	MILE		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Seeding				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
717-01-00100	10	LB		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Fertilizer				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
718-01-00100	229	LB		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Bedding Material				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
726-01-00100	243.4	CUYD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Mobilization				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
727-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Object Marker Assembly (Type 3)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
729-16-00300	4	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Reflectorized Raised Pavement Markers				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
731-02-00100	301	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
732-02-02000	4.524	MILE		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Construction Layout				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
740-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Precast Concrete Piles (16")				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-01-00300	3630	LNFT		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Precast Concrete Indicator Piles (16")				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-10-00300	2	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Dynamic Monitoring Assistance				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-14-00100	10	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Clearing and Grubbing				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
201-01-00100	1	Lump Sum		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Vibration Monitoring				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-18-00100	4	DAY		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Class A1 Concrete (Slab Span)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-01-00100	293.3	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Class A1 Concrete (Bent Cap)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-01-00300	68.86	CUYD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Finish (Class 2 Rubbed Finish)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-18-00100	478	SQFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Finish (Class 3 Special Finish)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-18-00200	4497	SQFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Deformed Reinforcing Steel				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
806-01-00100	67942	LB		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Bridge Railing (Slotted)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
810-01-00200	400	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Approach Slabs (Cast-in-Place)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
813-01-00100	128	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Saw Cutting Asphalt Concrete Pavement				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
NS-500-00340	533	INLF		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Gravel Drives				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-00020	50	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Asphalt Drives				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-02000	225	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Concrete Walks and Drives				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-06100	400	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Removal of Pipe (Storm Drain)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-32140	720	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe Arch (30" Equiv. RCPA)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
701-04-01060	1168	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Yard Drain Pipe (8")				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
701-07-00300	30	LNFT		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Curb				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
707-03-00100	100	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Slab Sodding (Centapide)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
714-01-00700	600	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Mailboxes				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
735-01	5	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Mailbox Supports				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
735-02	5	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # 6" Concrete Drives				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
706-02-00200	400	SQYD		
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Sewer Tie-ins				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-001	4	EACH		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Top Soil (6")				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-002	100	CUYD		
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

Pre-Bid Sign-In Sheet
I-10 Service Road Bridge Replacements

3rd Floor Conference
Room located at 21454
Koop Drive Building B,
Mandeville, LA 70471

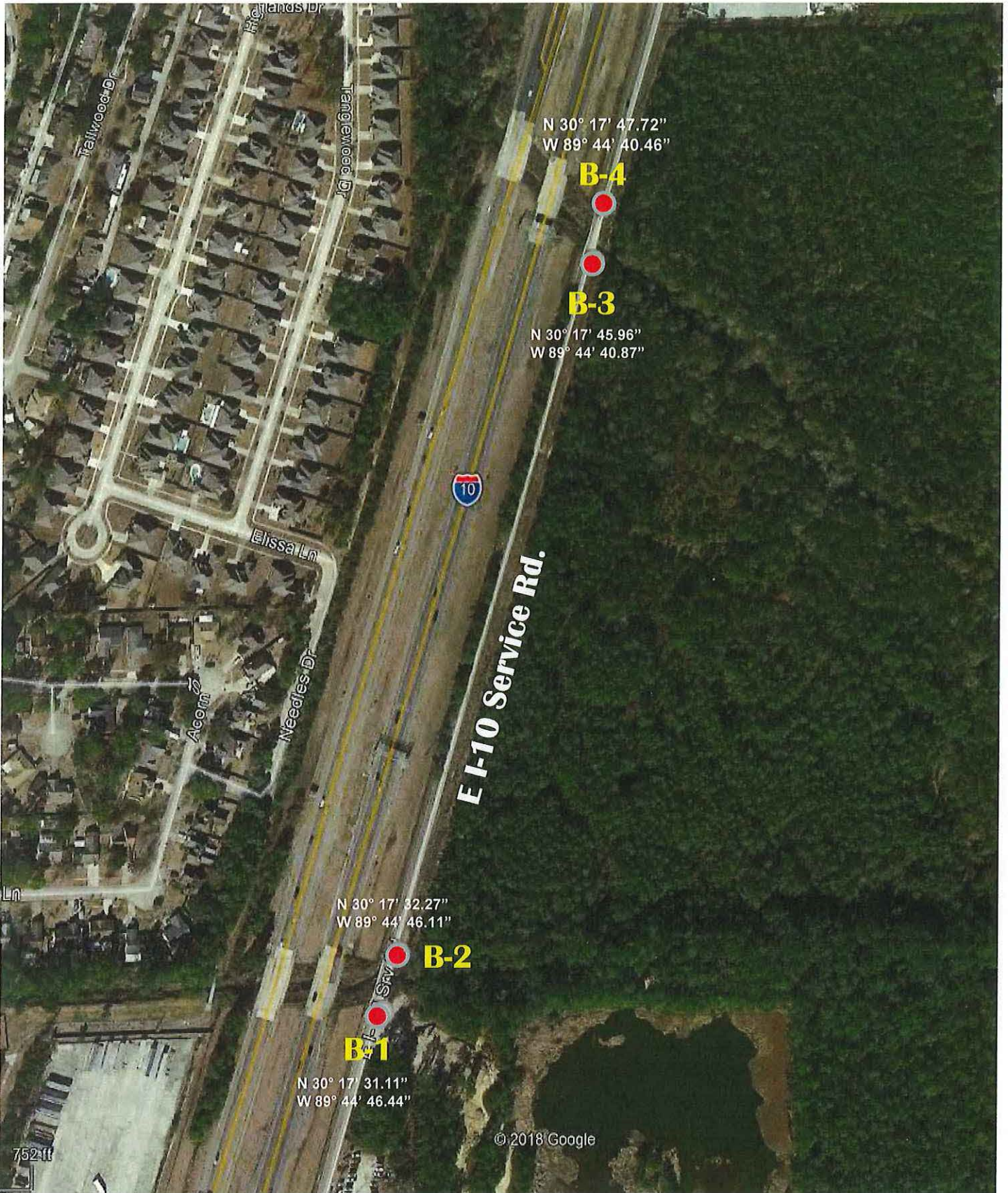
	Name	Company	Email	Phone	Time In	Time Out
1	Felic Panton	Dyn Dyn Builders Inc	epdy@starqyphoo.com	985-710-7773	9:40	10:00
2	Beard Buckel	CEC Inc	bbeckel@cecinc.com	225-612-4260	9:40	10:15
3	Kelly Funs	Command Construction	Michelle@commandindustrial.com	504-887-8705	9:41	10:11
4	Ross Crsko	JB James Construction	estimating@jbjamesllc.com	225-573-9842	9:44	10:11
5	Sean Cullen	Magee excavation	sean@mageexcavation.net	985-517-4300	9:45	10:10
6	Julian Leskin	Hard Rock Construction	Ray@Hardrockconstruction.com	954-298-5173	9:44	10:10 ✓
7	Taylor Rayce	Shaver's Whittle construction, LLC	Trayer@swellic.net	985-626-7673	9:45	10:10
8	MARK GUNN	Gunn Const.	MARK@GUNNCONST-ETONLLC.COM	337-824-0630	9:45	10:11
9	Kevin McDonald	McDonald Const. Inc.	Ksmcdonc@bellsouth.net	985-641-8621	9:48	10:12
10	Scott Richardson	Boh Bros. Const. Co. LLC	SRichardson@bohbro.com	504-827-7681	9:49	10:11
11	Brian Dunn	B&K Construction Company, LLC	bdunn@bkconst.com	985-626-1866	9:50	10:11

Handwritten initials/signature at the top right of the page.

	Name	Company	Email	Phone	Time In	Time Out
12	Eddie Rushing	HD Supply White cap	eddie.rushing@HDSupply.com	225-317-4105	9:50	10:11
13	Eddie Price	Baker Pile Driving	eddie@bakerpiledriving.com	985-951-2001	9:50	10:10
14	Dusty Hyton	DLH Contracting	info@DLHcontracting.com	985-201-5177	9:50	10:11
15	Percy Kilcrease	Warner Trucking	Percy.warnerco@aol.com	504-234-1075	9:55	10:10
16	Jason Lambre	STPC	jpcambre@stpc.org	985-898-2552	9:58	10:12
17	Dave Gray	Grayton Sturcom	d.gray@gray-ton.com	985-637-7143	10:00	10:10
18	Eddie Price	Baker Pile Driving	eddie@bakerpiledriving.com	985-951-2001	9:50	10:10
19	Kevin McDonald	McDonald Coast. Inc	Ksmcdonc@bellsouth.net	985-641-8621	9:50	10:12
20						
21						
22						
23						
24						
25						

24

ADN



N 30° 17' 47.72"
W 89° 44' 40.46"

B-4

N 30° 17' 45.96"
W 89° 44' 40.87"

B-3

N 30° 17' 32.27"
W 89° 44' 46.11"

B-2

N 30° 17' 31.11"
W 89° 44' 46.44"

B-1

BORING LOCATION PLAN



BORING LOCATION

North



THE BETA GROUP, LLC.
1428½ Claire Ave, Gretna, Louisiana, 70053
504-227-2273 fax: 504-227-2274
Betagroupgc.com

Client:	G.E.C. Inc.
Project:	Proposed I-10 Service Rd. Bridge Replacements
Location:	Slidell, Louisiana
TBG Project No:	5141G
Date:	1/3/19
Scale: Not To Scale	
Figure 1	



FIELD DATA			LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 31.11" Long. 89° 44' 46.44"		
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits				Percent Passing #200 Sieve	Organic Content	Surface Elevation:
							LL	PL	PI				
<input checked="" type="checkbox"/>			9 b/f 3-4-5		25								Stiff Tan and Light Gray SANDY CLAY (CL)
			0.25 (P)	0.18	19	130							Very Soft to Soft Tan and Light Gray SANDY CLAY (CL)
	- 5		0.25 (P)		19								
			3.5 (P)	1.61	15	136							Stiff to Very Stiff Tan and Light Gray SANDY CLAY (CL)
	- 10		2.75 (P)		19								
			4.25 (P)	1.27	23	127							
	- 15												
			3.5 (P)		23								Stiff Tan and Light Gray SANDY CLAY (CL)
	- 20												
			2.25 (P)	0.50	38	113	70	12	58				Medium Stiff Light Gray and Tan CLAY (CH) w/ Sand and Silt
	- 25												
			8 b/f 3-5-3		26								Stiff Gray SANDY CLAY (CL)
	- 30												
			0.75 (P)	0.49	33	112							Soft to Medium Stiff Gray CLAY (CH) w/ Sand and Silt
	- 35												
			1.0 (P)	0.61	34	112							
	- 40												
			27 b/f 12-17-10		24					11			Medium Dense Gray SILTY SAND (SM)
	- 45												
			1.0 (P)	0.55	28	124	30	10	20				Soft to Medium Stiff Gray SANDY CLAY (CL)
	- 50												

Continued Next Page

Ground Water Level Data	Boring Advancement Method	Notes
<input checked="" type="checkbox"/> No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.	
	Boring Abandonment Method	
	Borehole grouted with cement/ bentonite upon completion	

Strata Boundaries May Not Be Exact

Proposed I-10 Service Road Bridge
 Replacements
 Slidell, LA

LOG OF SOIL BORING B-1

File: 5141G
 Date: 11/28/18
 Logged by: L.Adams
 Driller: T.Roche
 Rig: CME 75

G.E.C., Inc.
 8282 Goodwood Blvd.
 Baton Rouge, LA



Sheet 2 of 2

FIELD DATA			LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 31.11" Long. 89° 44' 46.44"		
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits				Percent Passing #200 Sieve	Organic Content	Surface Elevation:
							LL	PL	PI				
	-55		1.25 (P)	0.41	22	129							Soft to Medium Stiff Gray SANDY CLAY (CL)
	-60	78 b/f 22-28-50			16					9			Dense to Very Dense Gray SILTY SAND (SM) w/ Rocks
		39 b/f 7-15-24			16								
	-65	76 b/f 16-26-50			19					7			
	-70	80 b/f 17-30-50			19								
	-75	80 b/f 20-30-50			16					9			
	-80	81 b/f 18-31-50			18								
	-85	78 b/f 17-28-50			15					12			
	-90		1.75 (P)		52								Stiff to Very Stiff Gray CLAY (CH) w/ Silt
	-95		1.75 (P)	1.39	51	107	98	20	78				
	-100		2.25 (P)		52								

Boring completed at 100 ft.

Ground Water Level Data		Boring Advancement Method		Notes
<input checked="" type="checkbox"/>	No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.		
		Boring Abandonment Method		
		Borehole grouted with cement/ bentonite upon completion		Strata Boundaries May Not Be Exact

ARD LOG01 01R 5141G.GPJ LOG01R.GDT 1/16/19

Proposed I-10 Service Road Bridge
Replacements
Slidell, LA

LOG OF SOIL BORING B-2

File: 5141G
Date: 11/29/18
Logged by: L.Adams
Driller: T.Roche
Rig: CME 75

G.E.C., Inc.
8282 Goodwood Blvd.
Baton Rouge, LA



Sheet 1 of 2

FIELD DATA				LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 32.27" Long. 89° 44' 46.11"	
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:
							LL	PL	PI				
		X	11 b/f 4-5-6		17								Stiff Tan and Light Gray SANDY CLAY (CL)
			0.25 (P)		19								Soft Tan and Light Gray SANDY CLAY (CL)
	- 5		2.25 (P)	1.19	16	131							Stiff Tan and Light Gray SANDY CLAY (CL)
			3.75 (P)		16								
	- 10		3.25 (P)	1.48	18	130	41	6	35				
			3.75 (P)		20								
	- 15												
			3.5 (P)	0.83	34	97							Medium Stiff Tan and Gray CLAY (CH) w/ Sand and Silt
	- 20												
			3.0 (P)		41								
	- 25												
		X	8 b/f 4-4-4		25								Stiff Light Gray SANDY CLAY (CL)
	- 30												
			1.0 (P)		30								
	- 35												
			1.0 (P)	0.63	38	113	52	14	38				Medium Stiff Gray CLAY (CH) w/ Sand and Silt
	- 40												
		X	29 b/f 10-12-17		23								Medium Dense Gray SILTY SAND (SM)
	- 45												
			1.0 (P)	0.44	22	126							Soft to Medium Stiff Light Gray SANDY CLAY (CL)
	- 50												

Continued Next Page

Ground Water Level Data		Boring Advancement Method		Notes
<input checked="" type="checkbox"/>	No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.		
		Boring Abandonment Method		
		Borehole grouted with cement/ bentonite upon completion		

Strata Boundaries May Not Be Exact

ARD LOG01 01R 5141G.GPJ LOG01R.GDT 1/16/19

Proposed I-10 Service Road Bridge
Replacements
Slidell, LA

LOG OF SOIL BORING B-2

File: 5141G

Date: 11/29/18

Logged by: L.Adams

Driller: T.Roche

Rig: CME 75

G.E.C., Inc.
8282 Goodwood Blvd.
Baton Rouge, LA



Sheet 2 of 2

FIELD DATA			LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 32.27" Long. 89° 44' 46.11"		
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits				Percent Passing #200 Sieve	Organic Content	Surface Elevation:
							LL	PL	PI				
	-55		1.5 (P)	0.77	21	130							Soft to Medium Stiff Light Gray SANDY CLAY (CL)
	-60	76 b/f 24-26-50			16								Dense to Very Dense Gray SILTY SAND (SM) w/ Rocks
		38 b/f 9-16-22			16					9			
		77 b/f 18-27-50			19								
	-70	77 b/f 20-27-50			19					5			
	-75	77 b/f 22-27-50			16								
	-80	79 b/f 18-29-50			17					6			
	-85	79 b/f 19-29-50			13								
	-90		1.75 (P)	1.07	37	114	65	10	55				Stiff Gray CLAY (CH) w/ Sand
	-95		1.75 (P)		50								Stiff Gray CLAY (CH)
	-100		1.75 (P)	1.25	51	107							

Boring completed at 100 ft.

Ground Water Level Data		Boring Advancement Method		Notes	
<input checked="" type="checkbox"/>	No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.			
		Boring Abandonment Method			
		Borehole grouted with cement/ bentonite upon completion			

Strata Boundaries May Not Be Exact

ARD LOG01.01R. 5141G.GPJ. LOG01R.GDT. 1/16/19

Proposed I-10 Service Road Bridge
Replacements
Slidell, LA

LOG OF SOIL BORING B-3

File: 5141G
Date: 12/3/18
Logged by: L.Adams
Driller: T.Roche
Rig: CME 75

G.E.C., Inc.
8282 Goodwood Blvd.
Baton Rouge, LA



Sheet 1 of 2

FIELD DATA				LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 45.96" Long. 89° 44' 40.87"	
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:
							LL	PL	PI				
<input checked="" type="checkbox"/>			20 b/f 6-7-13		14								Asphalt (6 1/2 Inches)
			2 b/f 6-1-1		14								Very Stiff Light Gray SANDY CLAY (CL)
	- 5		0.5 (P)	0.33	13	129							Soft Light Gray SANDY CLAY (CL)
			25 b/f 10-12-13		16								Very Stiff Tan and Light Gray SANDY CLAY (CL)
	- 10		15 b/f 8-8-7		23								
	- 15		2.25 (P)	0.89	28	120	47	18	29				Medium Stiff Tan and Light Gray SANDY CLAY (CL)
	- 20		2.25 (P)		35								
	- 25		2.0 (P)	0.77	41	112							Medium Stiff Light Gray and Tan CLAY (CH) w/ Sand and Silt
	- 30		7 b/f 3-3-4		26								Medium Stiff Light Gray SANDY CLAY (CL)
	- 35		1.5 (P)	0.70	40	114	54	16	38				Medium Stiff Light Gray CLAY (CH) w/ Sand and Silt
	- 40		1.5 (P)		35								
	- 45		1.0 (P)	0.48	30	123							Soft to Medium Stiff Light Gray SANDY CLAY (CL)
	- 50		0.75 (P)		28								

Continued Next Page

<input checked="" type="checkbox"/>	Ground Water Level Data	Boring Advancement Method	Notes
	No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.	
		Boring Abandonment Method	
		Borehole grouted with cement/ bentonite upon completion	

Strata Boundaries May Not Be Exact

ARD LOG01.01R 5141G.GPJ LOG01R.GDT 1/16/19

Proposed I-10 Service Road Bridge
Replacements
Slidell, LA

LOG OF SOIL BORING B-3

File: 5141G

Date: 12/3/18

Logged by: L.Adams

Driller: T.Roche

Rig: CME 75

G.E.C., Inc.
8282 Goodwood Blvd.
Baton Rouge, LA



Sheet 2 of 2

FIELD DATA			LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 45.96" Long. 89° 44' 40.87"		
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits				Percent Passing #200 Sieve	Organic Content	Surface Elevation:
							LL	PL	PI				
	-55		0.75 (P)	0.61	25	126	31	10	21				Soft to Medium Stiff Light Gray SANDY CLAY (CL)
	-60	80 b/f 17-30-50			16					7			Very Dense Gray SILTY SAND (SM)
		50 b/f 27-25-25			13								
		50 b/f 30-25-25			15					15			
	-70	50 b/f 27-25-25			17								
	-75	80 b/f 20-30-50			16					10			
	-80	81 b/f 29-31-50			15								
	-85	18 b/f 8-9-9			25					66			Very Stiff Light Gray SANDY CLAY (CL)
	-90	3.25 (P)			37								Very Stiff Tan and Gray CLAY (CH) w/ Sand and Silt
	-95	3.75 (P)	1.42		36	116							
	-100	3.0 (P)			39								Very Stiff Gray CLAY (CH) w/ Silt

Ground Water Level Data		Boring Advancement Method		Notes	
<input checked="" type="checkbox"/>	No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.		Boring completed at 100 ft.	
		Boring Abandonment Method			
		Borehole grouted with cement/ bentonite upon completion			

Strata Boundaries May Not Be Exact

ARD LOG01.01R. 5141G.GPJ. LOG01R.GDT. 1/16/19



FIELD DATA				LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 47.72" Long. 89° 44' 40.46"	
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:
							LL	PL	PI				
			20 b/f 6-8-12		17								Asphalt (6 1/2 Inches)
			3 b/f 6-2-1		14								Very Stiff Light Gray SANDY CLAY (CL)
	-5		0.5 (P)	0.30	15	130							Soft Light Gray SANDY CLAY (CL)
			26 b/f 11-13-13		16								Stiff to Very Stiff Tan and Light Gray SANDY CLAY (CL)
	-10		15 b/f 7-8-7		26								
	-15		2.0 (P)	1.20	27	122							Medium Stiff Tan and Light Gray SANDY CLAY (CL)
	-20		2.0 (P)	0.63	32	120	44	14	30				
	-25		2.0 (P)		41								Stiff Tan and Light Gray CLAY (CH) w/ Sand and Silt
			7 b/f 3-4-3		25								Soft to Medium Stiff Gray SANDY CLAY (CL)
	-35		1.25 (P)	0.69	34	117	40	15	25				
	-40		1.0 (P)	0.48	29	125							
	-45		0.75 (P)		32								
	-50		0.75 (P)	0.61	25	126							

Continued Next Page

Ground Water Level Data		Boring Advancement Method		Notes
<input checked="" type="checkbox"/>	No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.		
		Boring Abandonment Method		
		Borehole grouted with cement/ bentonite upon completion		

Strata Boundaries May Not Be Exact

ARD LOG01.01R 5141G.GPJ LOG01R.GDT 1/16/19

Proposed I-10 Service Road Bridge
Replacements
Slidell, LA

LOG OF SOIL BORING B-4

File: 5141G
Date: 12/4/18
Logged by: L.Adams
Driller: T.Roche
Rig: CME 75

G.E.C., Inc.
8282 Goodwood Blvd.
Baton Rouge, LA



FIELD DATA				LABORATORY DATA							Soil Type	Location: Lat. 30° 17' 47.72" Long. 89° 44' 40.46"	
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:
							LL	PL	PI		Description		
													Soft to Medium Stiff Gray SANDY CLAY (CL)
	-55		0.75 (P)	0.62	23	127							
	-60	80 b/f 19-30-50			16								Very Dense Gray SILTY SAND (SM)
		60 b/f 29-30-30			13					14			
		60 b/f 31-30-30			14								
	-65												
	-70	60 b/f 28-30-30			16					9			
	-75	60 b/f 23-30-30			16								
	-80	60 b/f 29-30-30			15					13			
	-85	17 b/f 6-9-8			28								Very Stiff Tan and Light Gray SANDY CLAY (CL)
	-90		3.25 (P)	1.53	35	116							Stiff Gray CLAY (CH) w/ Sand and Silt
	-95		3.25 (P)	1.40	42	110	84	21	63				
	-100	14 b/f 6-7-7			50								

Boring completed at 100 ft.

Ground Water Level Data	Boring Advancement Method	Notes
<input checked="" type="checkbox"/> No free water encountered	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.	Strata Boundaries May Not Be Exact
	Boring Abandonment Method	
	Borehole grouted with cement/ bentonite upon completion	

ARD LOG01 01R 5141G.GPJ LOG01R.GDT 1/16/19

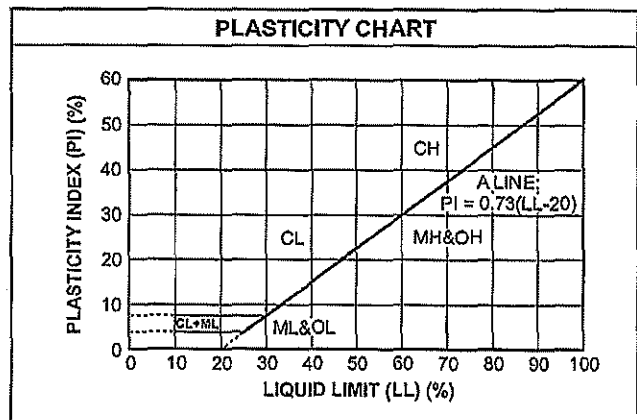
UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		
COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)		
Clean Gravels (Less than 5% fines)		
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	
	GM	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures
Clean Sands (Less than 5% fines)		
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	
	SM	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)		
SILTS AND CLAYS Liquid limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays of medium to high plasticity, organic silts
PT	Peat and other highly organic soils	

LABORATORY CLASSIFICATION CRITERIA		
GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
GP	Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
GC	Atterberg limits above "A" line with P.I. greater than 7	
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
SP	Not meeting all gradation requirements for GW	
SM	Atterberg limits below "A" line or P.I. less than 4	Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
SC	Atterberg limits above "A" line with P.I. greater than 7	

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

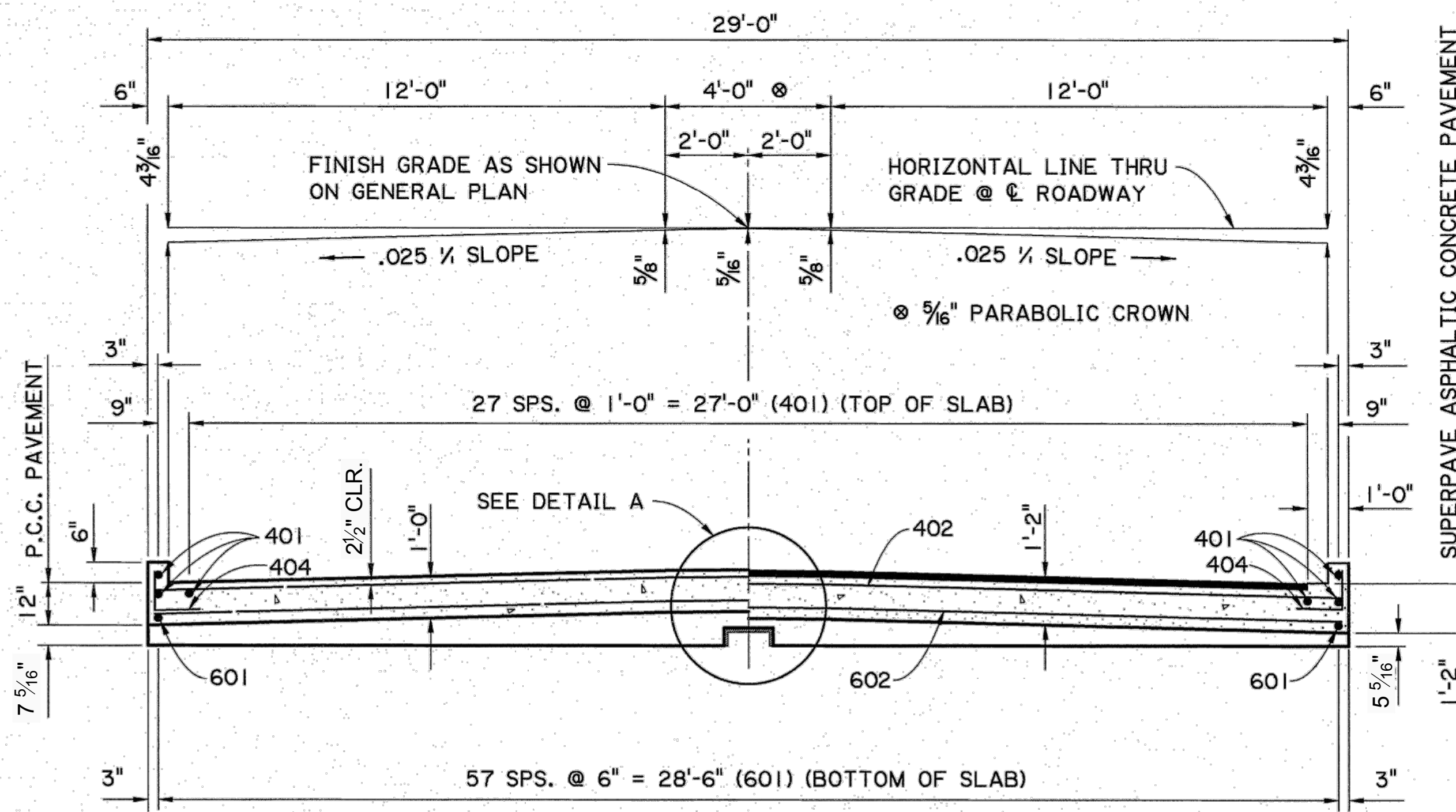
Less than 5 percent GW, GP, SW, SP
 More than 12 percent GM, GC, SM, SC
 5 to 12 percent Borderline cases requiring dual symbols



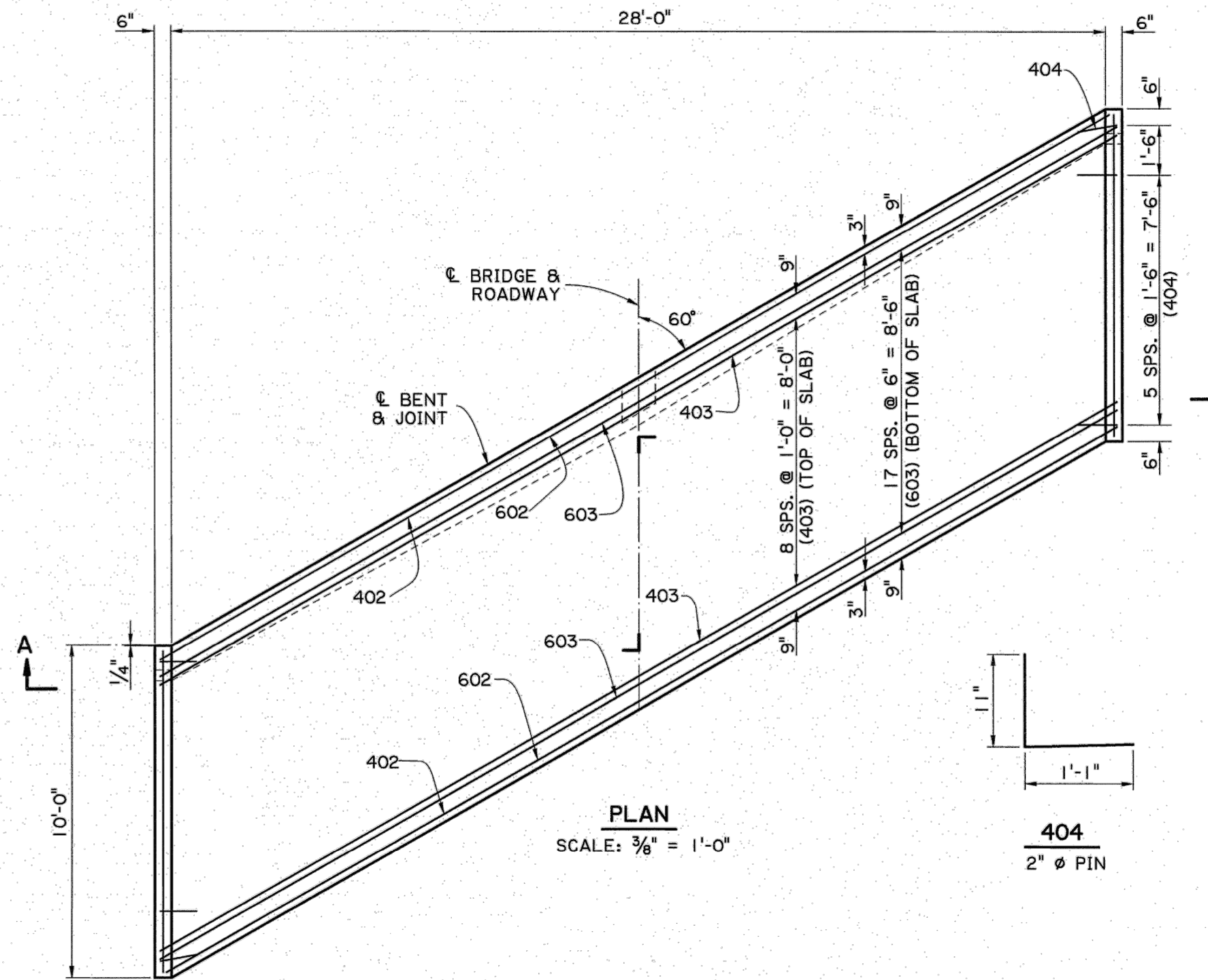
DESCRIPTION OF TERMS AND SYMBOLS USED ON SOIL BORING LOG

FIELD DATA			LABORATORY DATA						Soil Type	DESCRIPTION
Ground Water Level	Depth (feet)	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits				
	Samples					LL	PL	PI		
5										<div style="border: 1px solid black; padding: 5px;"> Description Classifications are based on visual observations by field & lab representatives as well as results of laboratory data (when available). </div>
10										
15										<div style="border: 1px solid black; padding: 5px;"> Laboratory Data Compressive Strength Value based on peak compressive strength. Determined by unconfined compression test unless otherwise noted. </div>
20										
25										<div style="border: 1px solid black; padding: 5px;"> Dry Unit Weight As determined by method similar to ASTM D-2937. </div>
30										
35										<div style="border: 1px solid black; padding: 5px;"> Water Content As determined by pertinent portions of ASTM D-2216. </div>
40										
										<div style="border: 1px solid black; padding: 5px;"> Atterberg Limits LL : Liquid Limit PL : Plastic Limit PI : Plasticity Index (= Liquid Limit - Plastic Limit) </div>
										<div style="border: 1px solid black; padding: 5px;"> Other Results of other tests such as consolidation, permeability, grain size or notes associated with testing program. </div>
										<div style="border: 1px solid black; padding: 5px;"> Soil Type Graphical representation of soil type. In accordance with USCS Symbols. </div>

Ground Water Level Data	Boring Advancement Method	Notes
	Boring Abandonment Method	

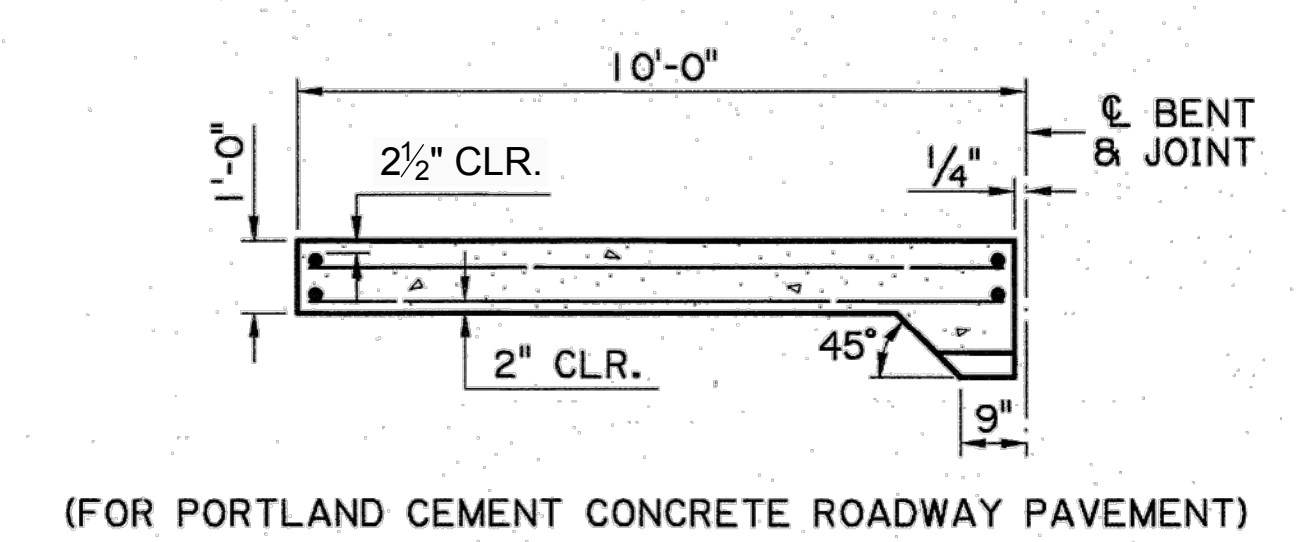


SECTION A-A
SCALE 3/8" = 1'-0"

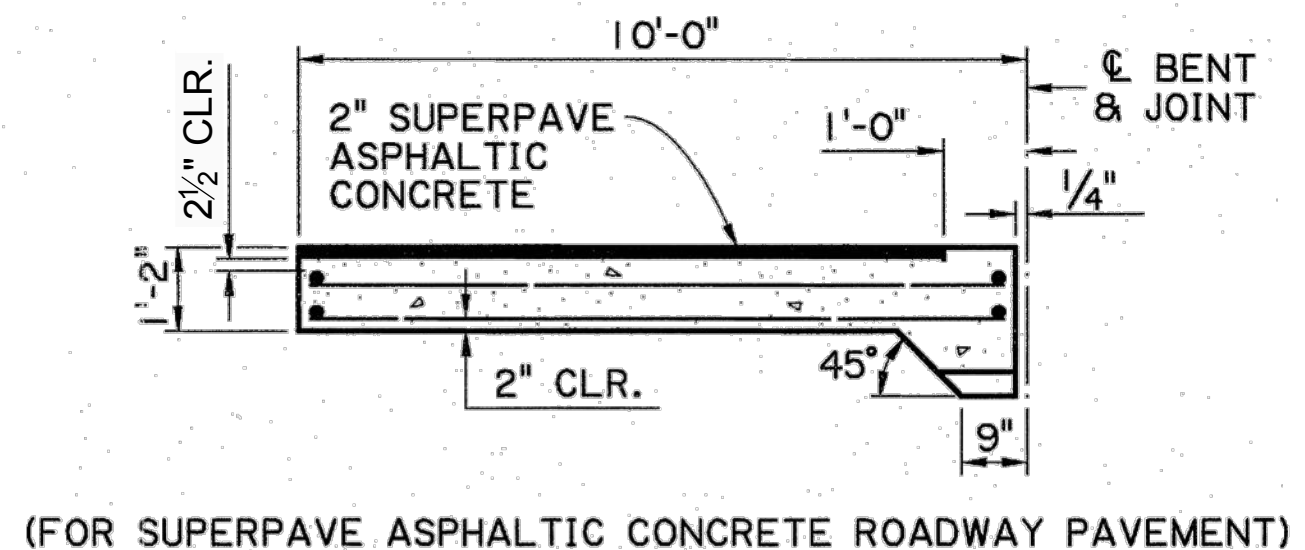


PLAN
SCALE: 3/8" = 1'-0"

404
2" Ø PIN

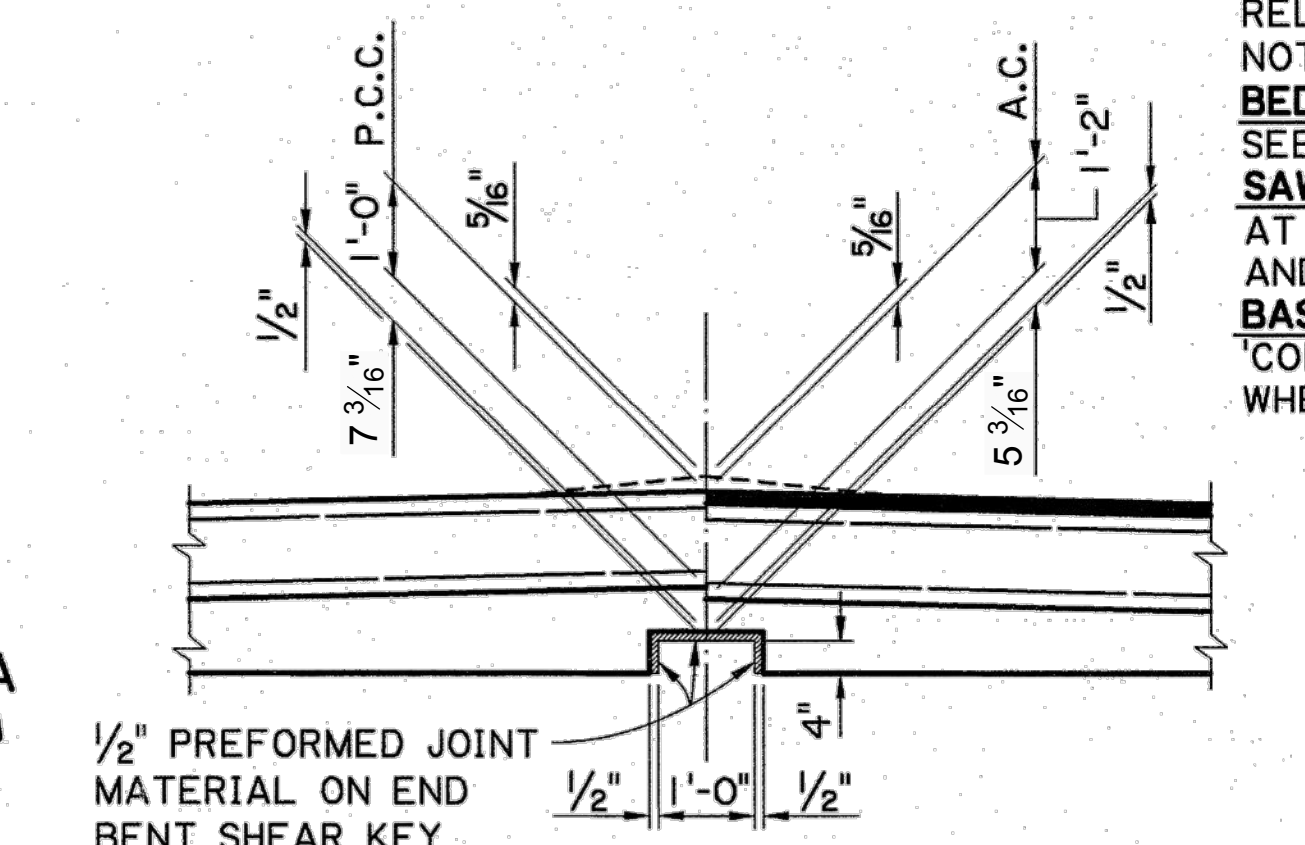


(FOR PORTLAND CEMENT CONCRETE ROADWAY PAVEMENT)

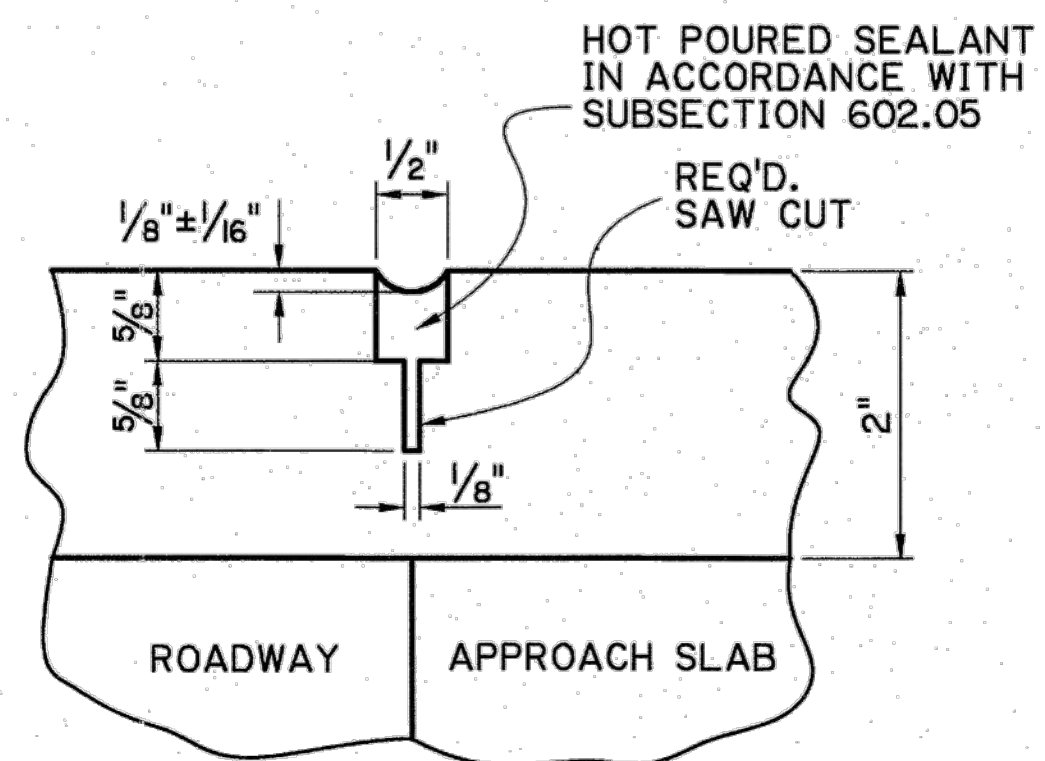


(FOR SUPERPAVE ASPHALTIC CONCRETE ROADWAY PAVEMENT)

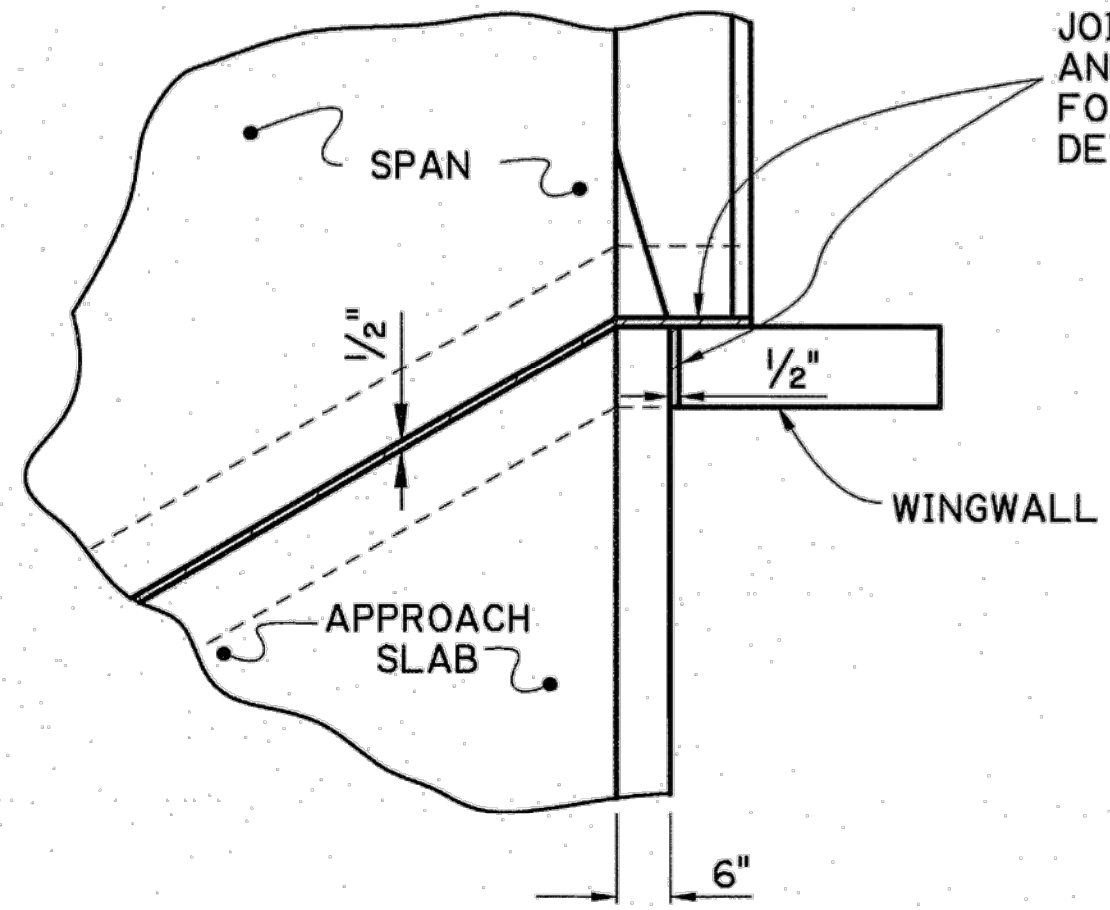
SECTION ALONG CL ROADWAY
SCALE: 3/8" = 1'-0"



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



SAWING & SEALING JOINT DETAIL
N.T.S.



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

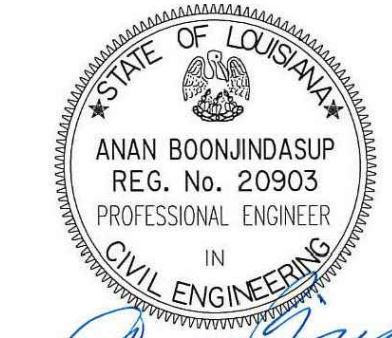
ESTIMATED QUANTITIES (ONE SLAB)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	58	9'-7"	555'-10"	LONGIT. BOT. OF SLAB
602	2	32'-10"	65'-8"	TRANSV. BOT. OF SLAB
603	18	33'-1"	595'-6"	TRANSV. BOT. OF SLAB
TOTAL NO. 6 BARS = 1217'-0" = 1,828 LBS.				
401	32	9'-7"	306'-8"	LONGIT. TOP OF SLAB & CURB
402	2	32'-10"	65'-8"	TRANSV. TOP OF SLAB
403	9	33'-1"	297'-9"	TRANSV. TOP OF SLAB
404	14	2'-0"	28'-0"	DOWELS IN CURB
TOTAL NO. 4 BARS = 698'-1" = 466 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 2,294 LBS.				
CONCRETE APPROACH SLAB = 32.22 SQ. YDS.				
SUPERPAVE ASPHALTIC CONCRETE = 3.0 TONS				
SAW CUT & SEAL = 31 LIN. FT.				

- TO BE PAID FOR UNDER ITEM CONCRETE APPROACH SLABS.
- ⊠ REQUIRED WHEN APPROACH SLAB IS ADJACENT TO SUPERPAVE ASPHALTIC CONCRETE PAVEMENT.

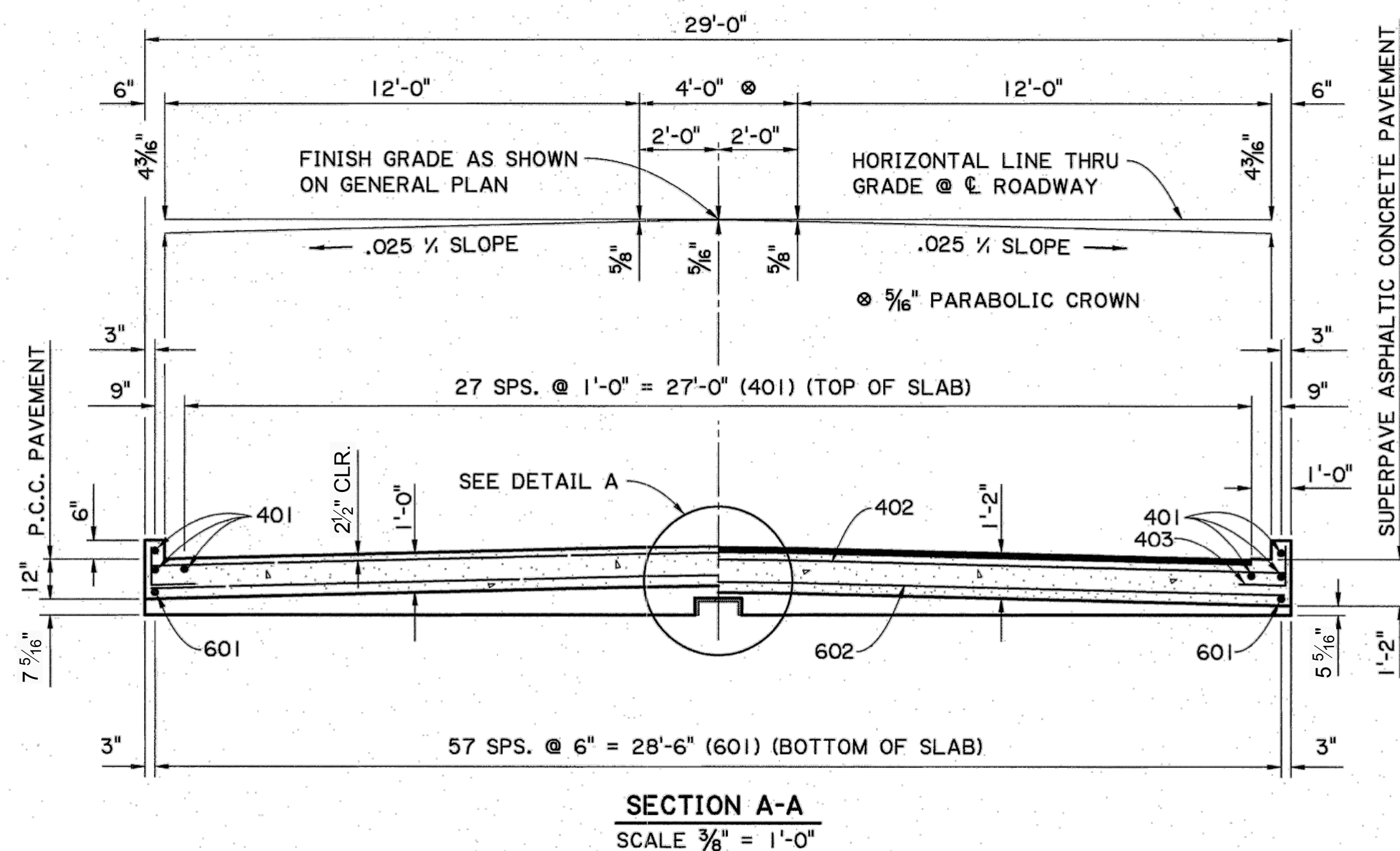
APPROACH SLAB NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS AA. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS OTHERWISE NOTED.
SUPERPAVE ASPHALTIC CONCRETE: TO BE THE SAME TYPE AS THE SUPERPAVE ASPHALTIC CONCRETE USED FOR THE APPROACH ROADWAY PAVEMENT OR OVERLAY.
REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO THE FABRICATION ARE OUT-TO-OUT OF BARS, UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS.
BEDDING MATERIAL: FOR DETAILS OF BEDDING MATERIAL AND UNDERDRAINS, SEE STANDARD DETAIL BD.2.10.1.0.07.
SAWING & SEALING: THE SUPERPAVE ASPHALTIC CONCRETE SHALL BE SAW CUT AT THE END OF THE CONCRETE APPROACH SLAB THE ENTIRE ROADWAY WIDTH AND SEALED. COST TO BE INCLUDED WITH CONCRETE APPROACH SLABS.
BASIS OF PAYMENT: ALL MATERIAL SHALL BE PAID FOR UNDER 'CONCRETE APPROACH SLABS' ACCORDING TO THE SPECIFICATIONS, EXCEPT WHERE NOTED ON THIS SHEET.

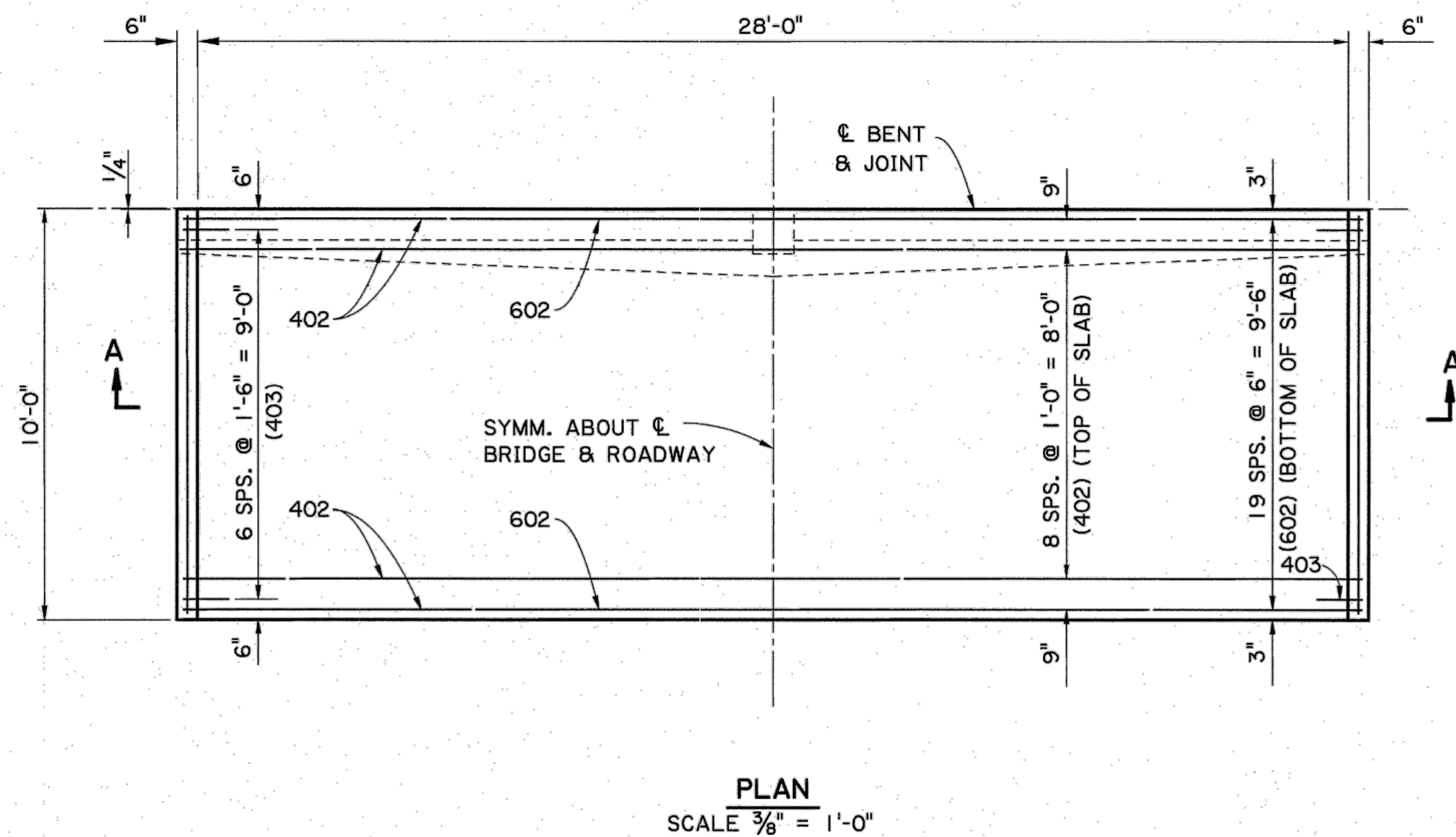
JOINT SEALANT, BACKER MATERIAL, AND PREFORMED JOINT FILLER. FOR DETAILS SEE SPAN SHEET, DETAIL "A".



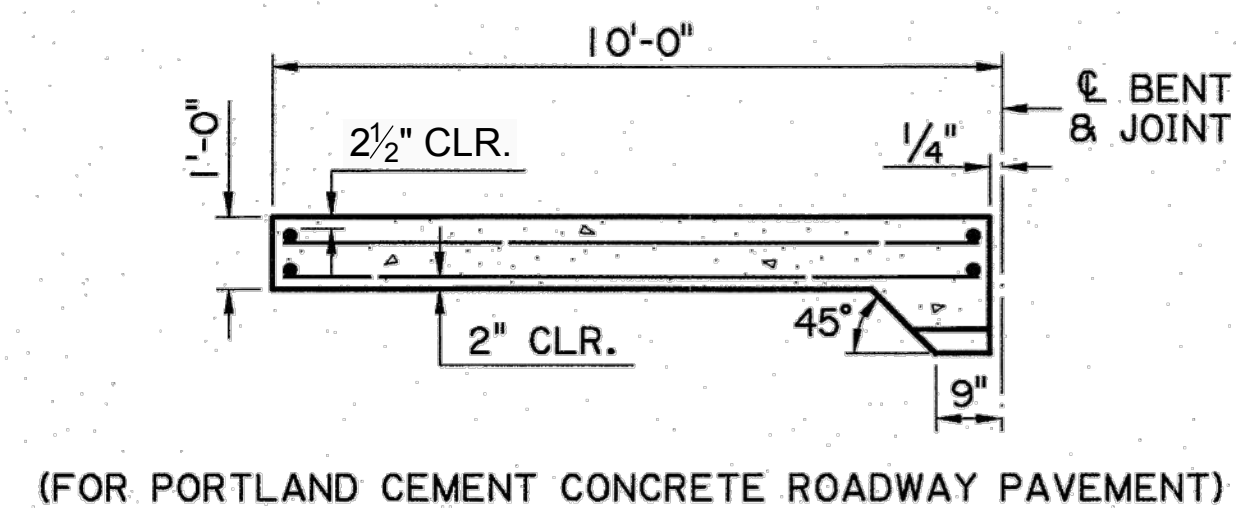
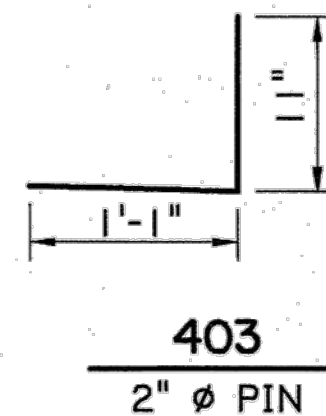
Anan Boonindasup
3/19/2020



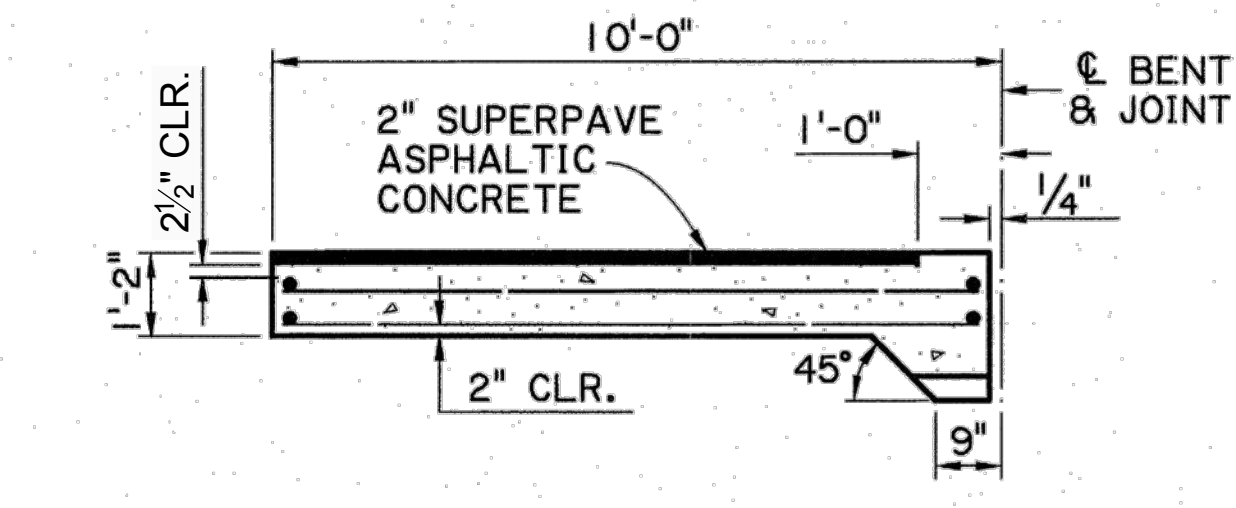
SECTION A-A
SCALE 3/8" = 1'-0"



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

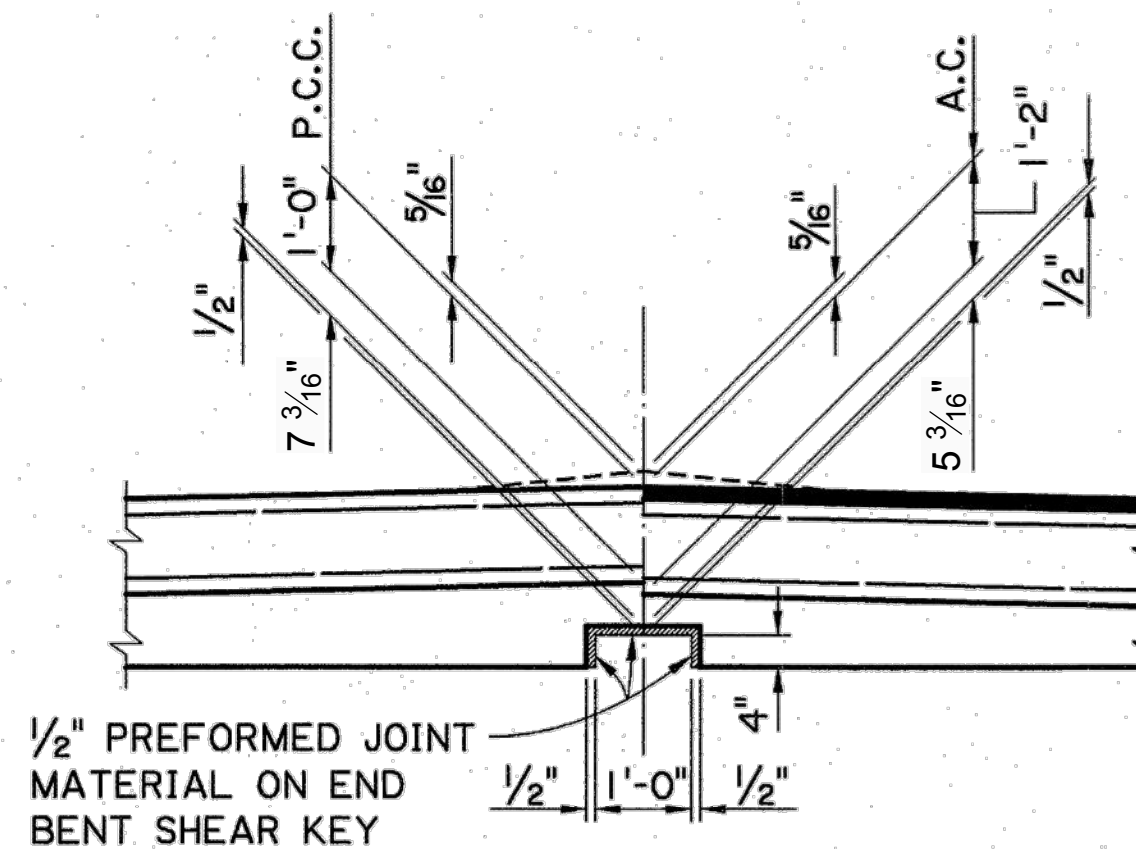


(FOR PORTLAND CEMENT CONCRETE ROADWAY PAVEMENT)

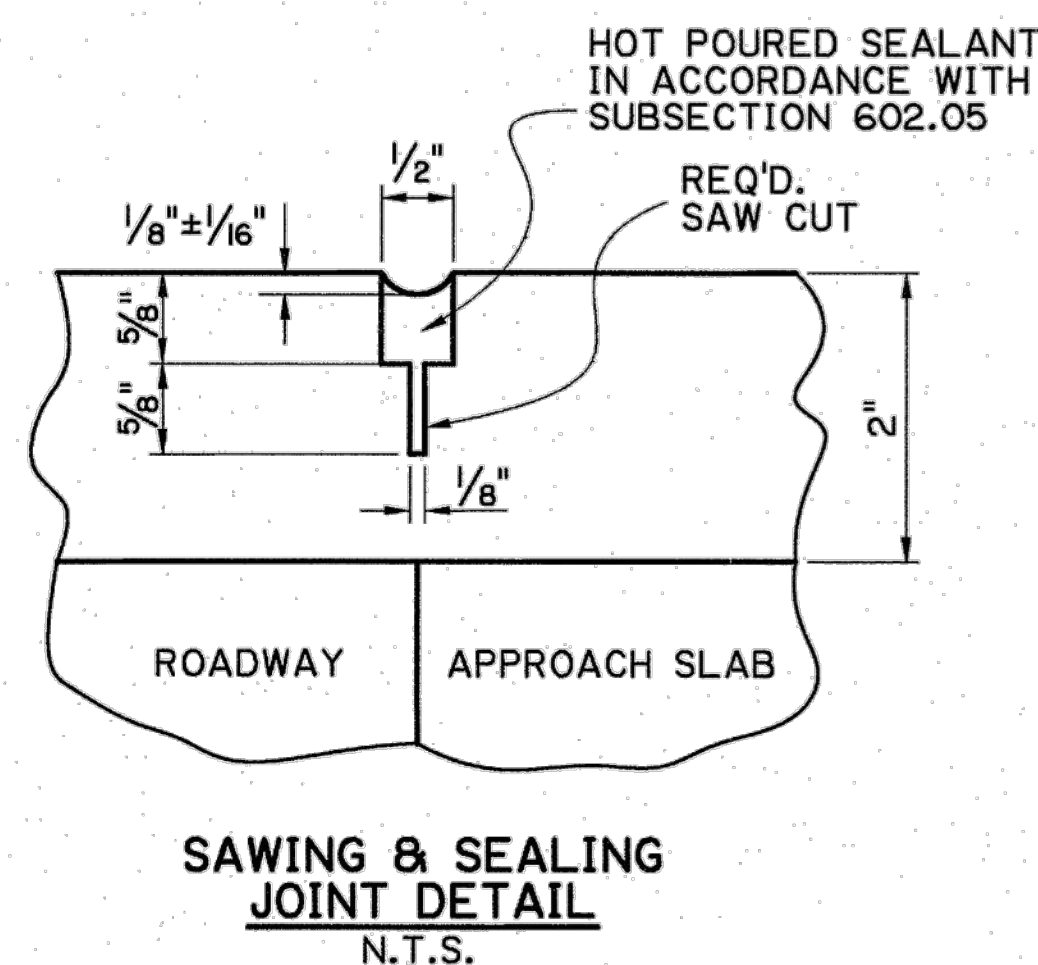


(FOR SUPERPAVE ASPHALTIC CONCRETE ROADWAY PAVEMENT)

SECTION ALONG C ROADWAY
SCALE: 3/8" = 1'-0"



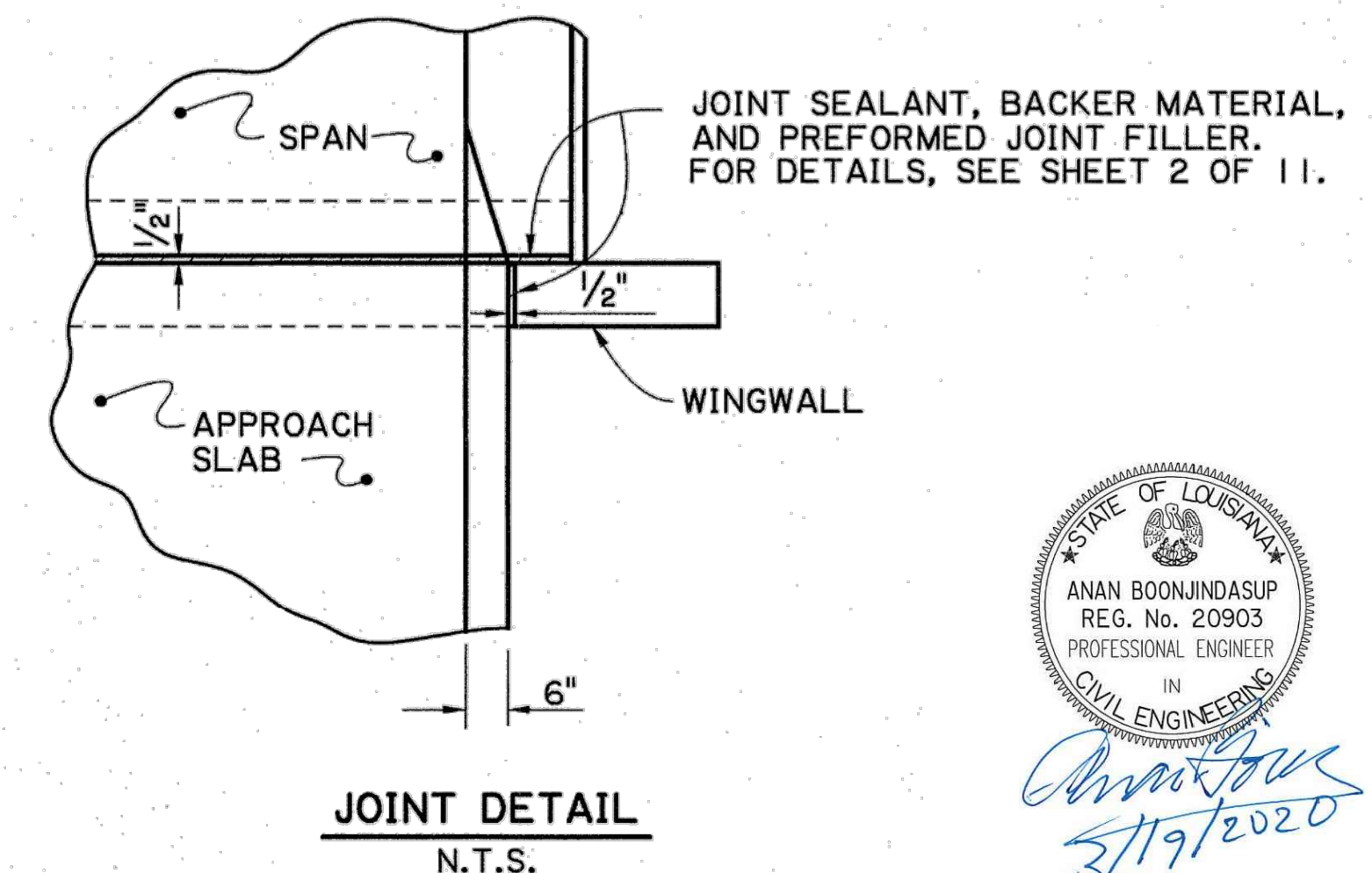
DETAIL A
SCALE: 1/2" = 1'-0"



SAWING & SEALING
JOINT DETAIL
N.T.S.

APPROACH SLAB NOTES:

- CONSTRUCTION SPECIFICATIONS:** LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- DESIGN SPECIFICATIONS:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.
- STRUCTURAL CONCRETE:** ALL CONCRETE SHALL BE CLASS AA. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS OTHERWISE NOTED.
- SUPERPAVE ASPHALTIC CONCRETE:** TO BE THE SAME TYPE AS THE SUPERPAVE ASPHALTIC CONCRETE USED FOR THE APPROACH ROADWAY PAVEMENT OR OVERLAY.
- REINFORCING STEEL:** ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO THE FABRICATION ARE OUT-TO-OUT OF BARS, UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS.
- BEDDING MATERIAL:** FOR DETAILS OF BEDDING MATERIAL AND UNDERDRAINS. SEE STANDARD DETAIL BD.2.10.1.0.07
- SAWING & SEALING:** THE SUPERPAVE ASPHALTIC CONCRETE SHALL BE SAW CUT AT THE END OF THE CONCRETE APPROACH SLAB THE ENTIRE ROADWAY WIDTH AND SEALED, COST TO BE INCLUDED WITH CONCRETE APPROACH SLAB.
- BASIS OF PAYMENT:** ALL MATERIAL SHALL BE PAID FOR UNDER 'CONCRETE APPROACH SLABS' ACCORDING TO THE SPECIFICATIONS, EXCEPT WHERE NOTED ON THIS SHEET.



JOINT DETAIL
N.T.S.

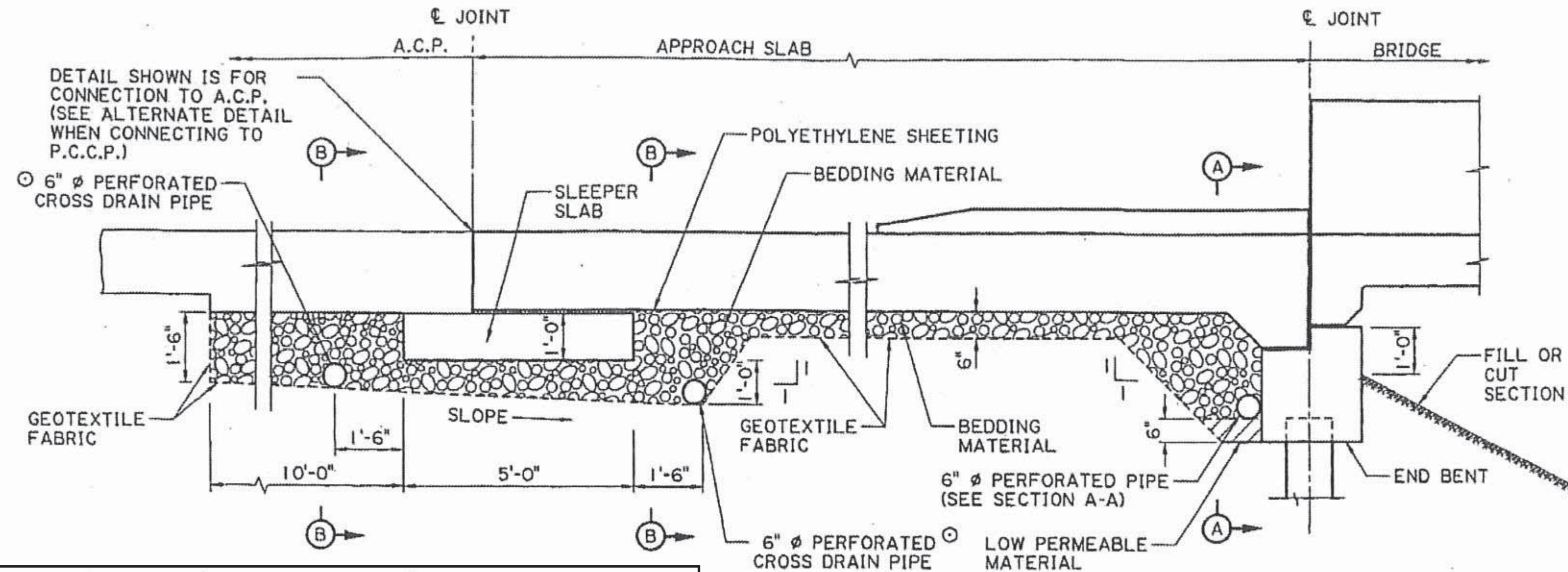
ESTIMATED QUANTITIES (ONE SLAB)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
601	58	9'-7"	555'-10"	LONGIT. BOT. OF SLAB
602	20	28'-8"	573'-4"	TRANSV. BOT. OF SLAB
TOTAL NO. 6 BARS = 1,129'-2" = 1,696 LBS.				
401	32	9'-7"	306'-8"	LONGIT. TOP OF SLAB & CURB
402	11	28'-8"	315'-4"	TRANSV. TOP OF SLAB
403	14	2'-0"	28'-0"	DOWELS IN CURB
TOTAL NO. 4 BARS = 650'-0" = 434 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 2,130 LBS.				
CONCRETE APPROACH SLAB = 32.22 SQ. YDS.				
SUPERPAVE ASPHALTIC CONCRETE = 3.0 TONS				
SAW CUT & SEAL = 27 LIN. FT.				

- TO BE PAID FOR UNDER ITEM CONCRETE APPROACH SLABS.
- ☑ REQUIRED WHEN APPROACH SLAB IS ADJACENT TO SUPERPAVE ASPHALTIC CONCRETE PAVEMENT.



Anan Boonjindasup
3/19/2020

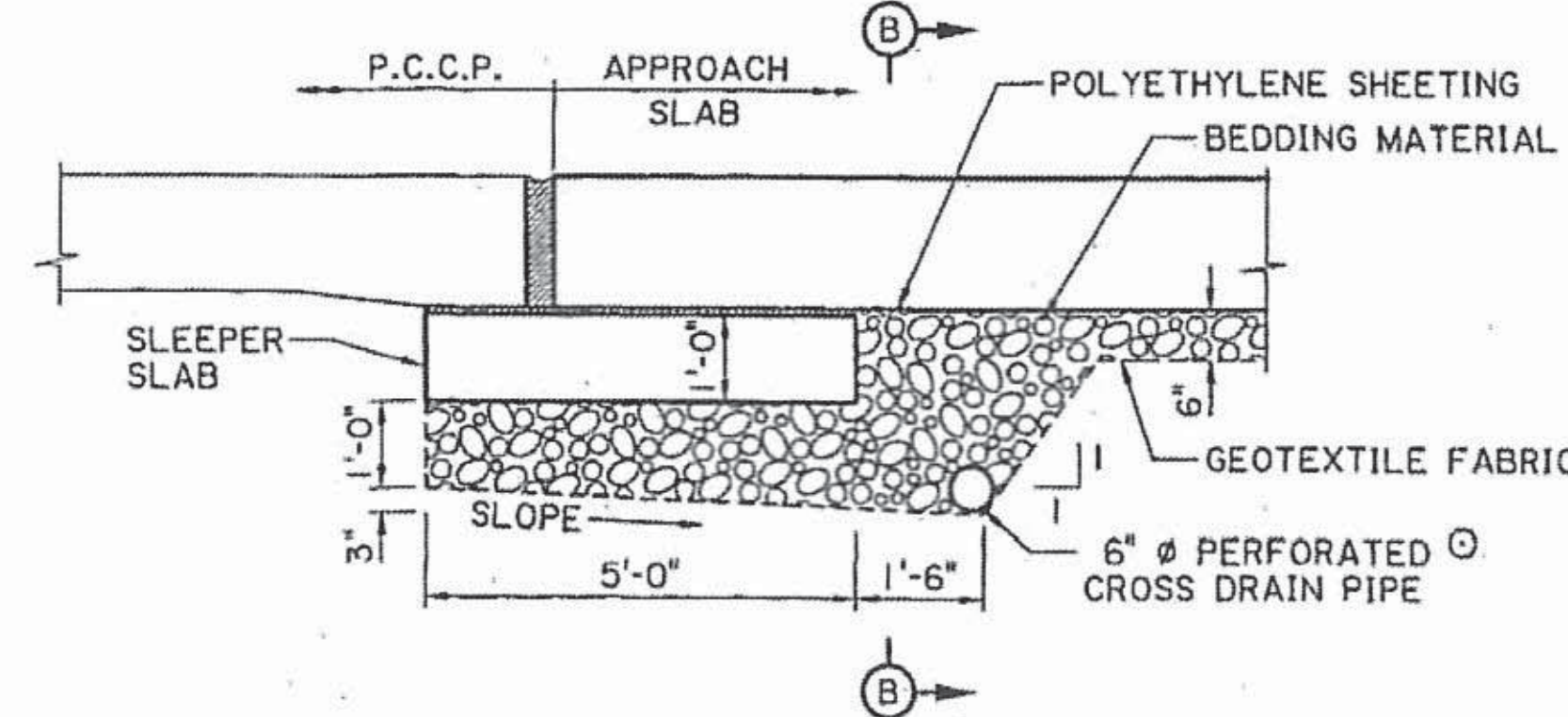
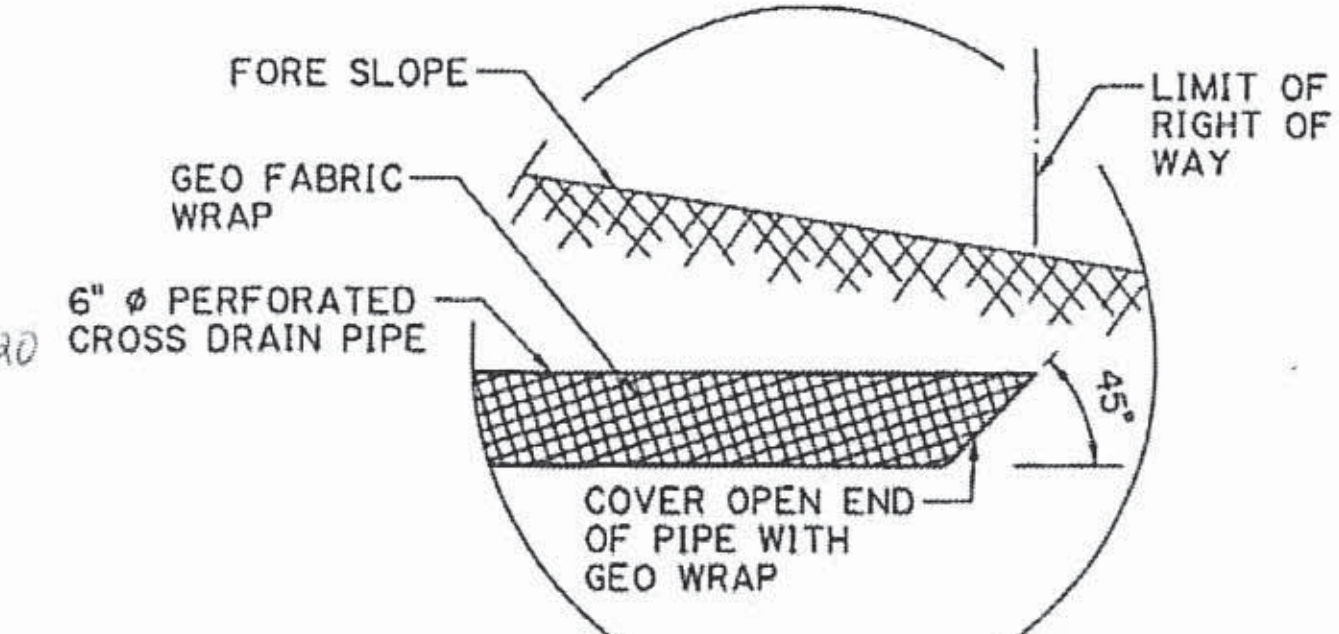
14:12
 7/12/2017
 IP_FWP:d0763429\BD.2.10.1.0.07_Approach Slab Common 07.raster .dgn



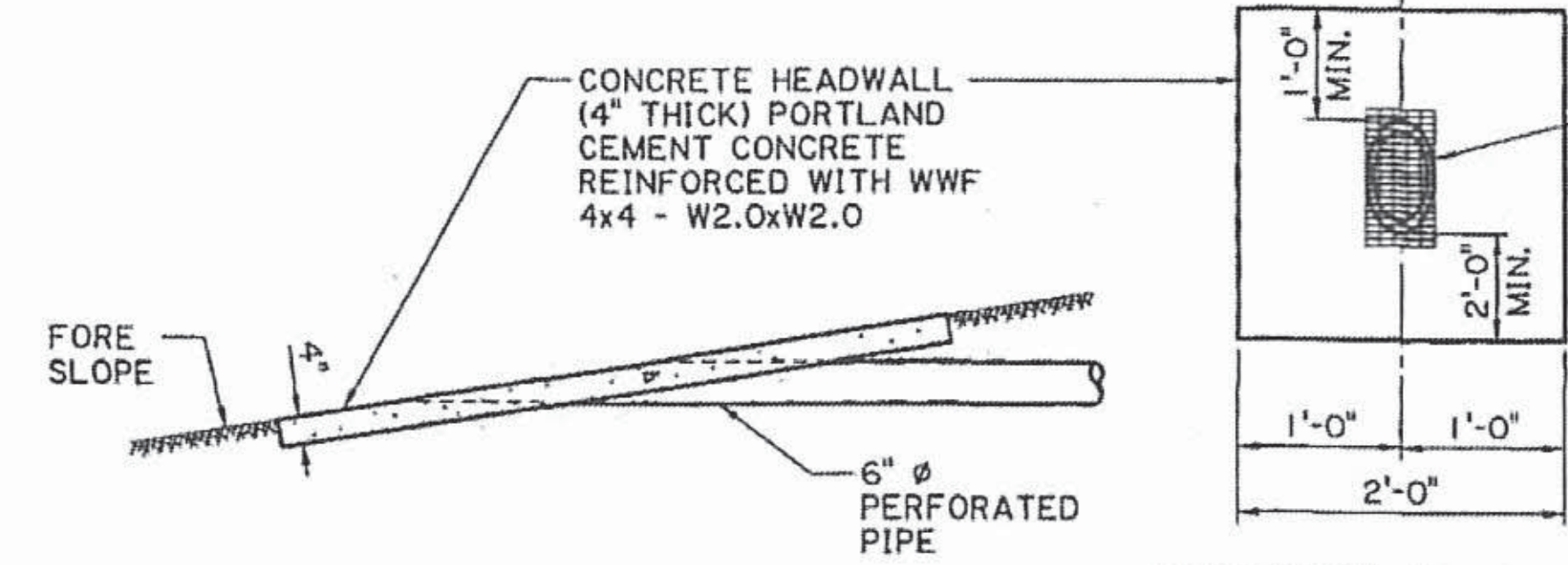
These standard plans have been properly examined by me, the undersigned Louisiana professional engineer. I have determined that these plans comply with all applicable Louisiana codes and have been properly site adapted to use in this area.

- NOTES:**
1. INSTALL POLYETHYLENE SHEETING (6 MIL. THICKNESS) BETWEEN THE BEDDING MATERIAL AND APPROACH SLAB. INSTALL GEOTEXTILE FABRIC DIRECTLY BELOW THE BEDDING MATERIAL. LIMITS SHALL BE THE OUTER EDGES OF THE APPROACH SLAB.
 2. UNDERDRAIN MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 813 OF THE STANDARD SPECIFICATIONS.
 3. LOW PERMEABLE MATERIAL SHALL BE DEFINED AS A SOIL HAVING THE SAME PI LIMITS AS PLASTIC SOIL BLANKETS, SEE SECTION 203.10.
 4. WRAP GEOTEXTILE FABRIC (CLASS C OR D) AROUND THE PERFORATED PIPE AS SHOWN.
 5. FOR ROADWAYS WITH A ONE-WAY TANGENT, THE 6" Ø CROSS DRAINAGE PIPE MAY SLOPE ONE-WAY WITH ONLY ONE CONCRETE HEADWALL AT THE LOWER END. PLUG THE HIGH END OF THE 6" Ø PIPE.
 6. CROSS DRAIN PIPE SHALL NOT EXCEED LIMITS OF RIGHT OF WAY (SEE DETAIL "A").
 7. APPROACH SLAB WITHOUT SLEEPER SLAB TO ONLY BE USED ON OFF-SYSTEM PROJECTS OR BY SPECIAL PERMISSION FROM THE BRIDGE DESIGN ADMINISTRATOR.

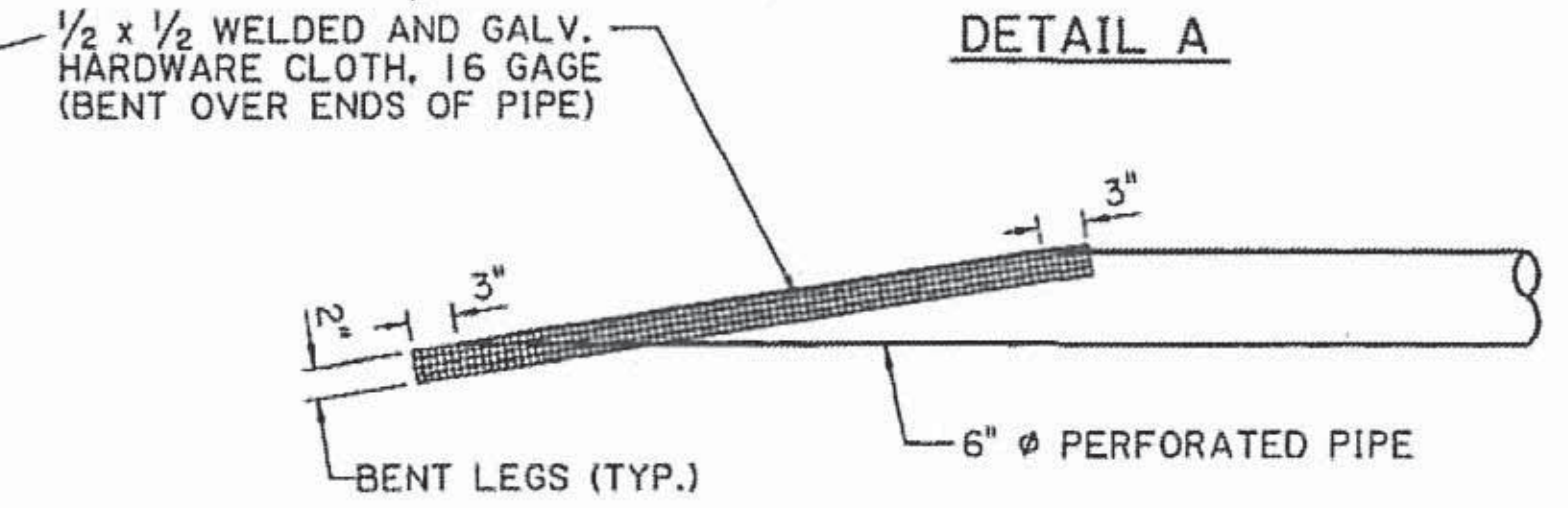
ELEVATION @ APPROACH SLAB
 (SLAB SPAN BRIDGE SHOWN, QUAD BEAM DETAIL SIMILAR)
 (ASPHALTIC CONCRETE ROADWAY SHOWN, FOR ALTERNATE DETAILS AT ROADWAY, SEE BELOW)



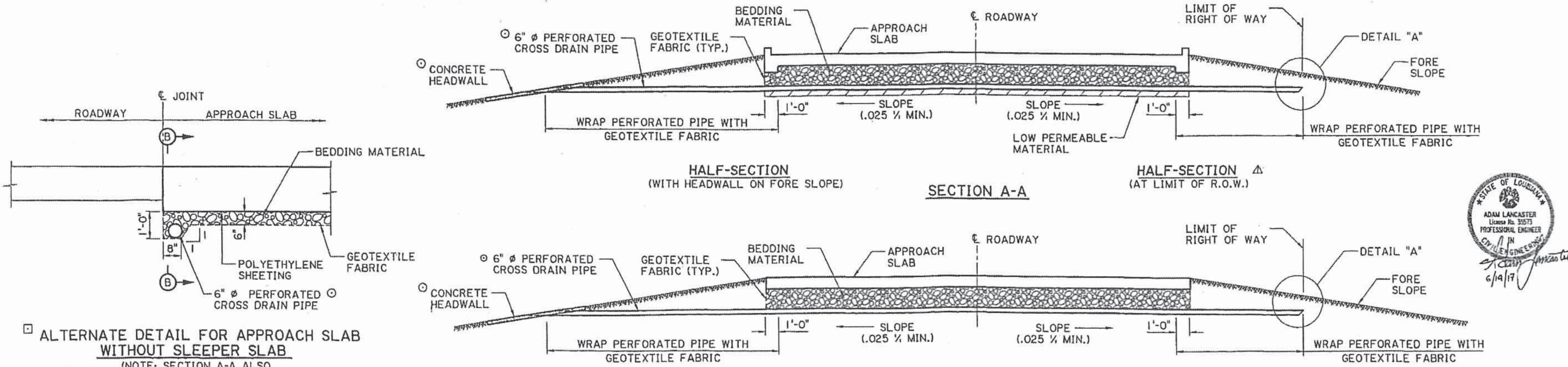
ALTERNATE DETAIL FOR P.C.C.P. ROADWAY



CONCRETE HEADWALL

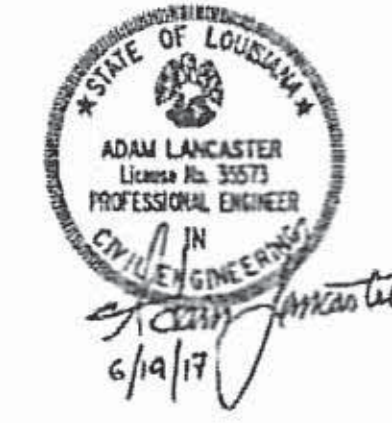


END TREATMENT FOR 6" PERFORATED CROSS DRAIN PIPES



ALTERNATE DETAIL FOR APPROACH SLAB WITHOUT SLEEPER SLAB

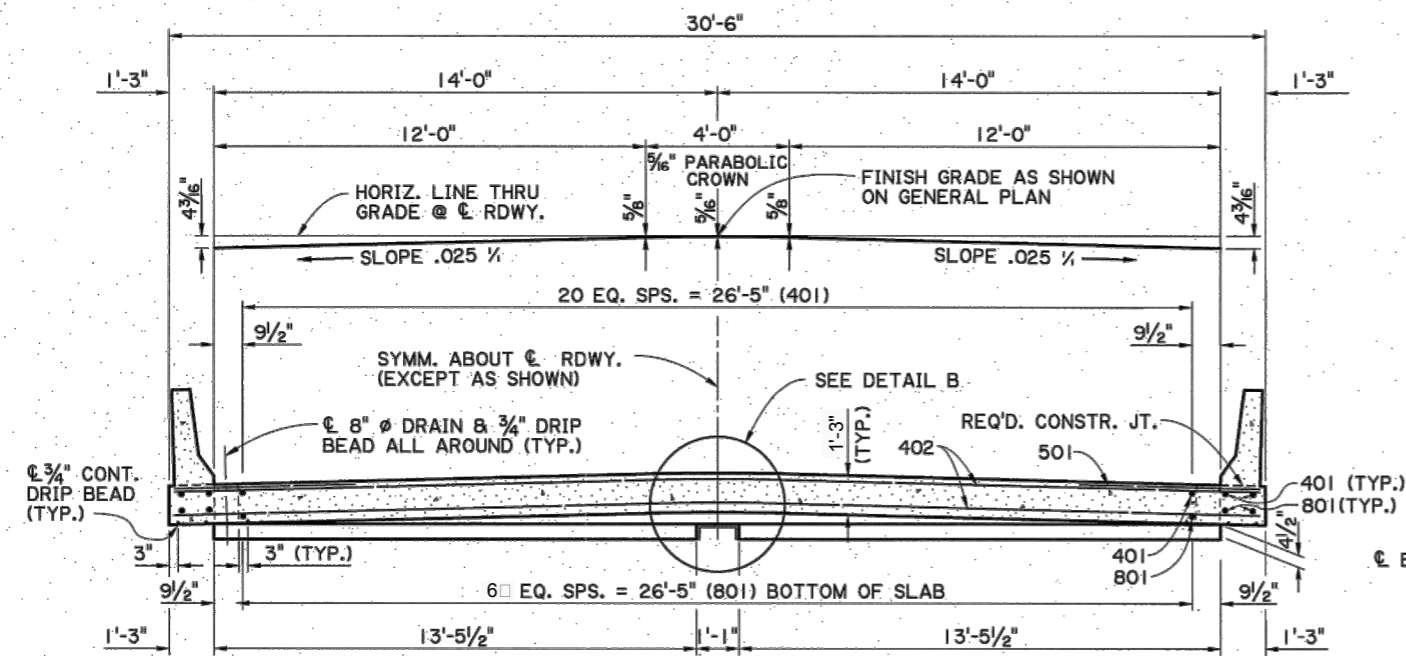
(NOTE: SECTION A-A ALSO APPLIES TO APPROACH SLABS WITHOUT A SLEEPER SLAB AND OFF-SYSTEM BRIDGES)



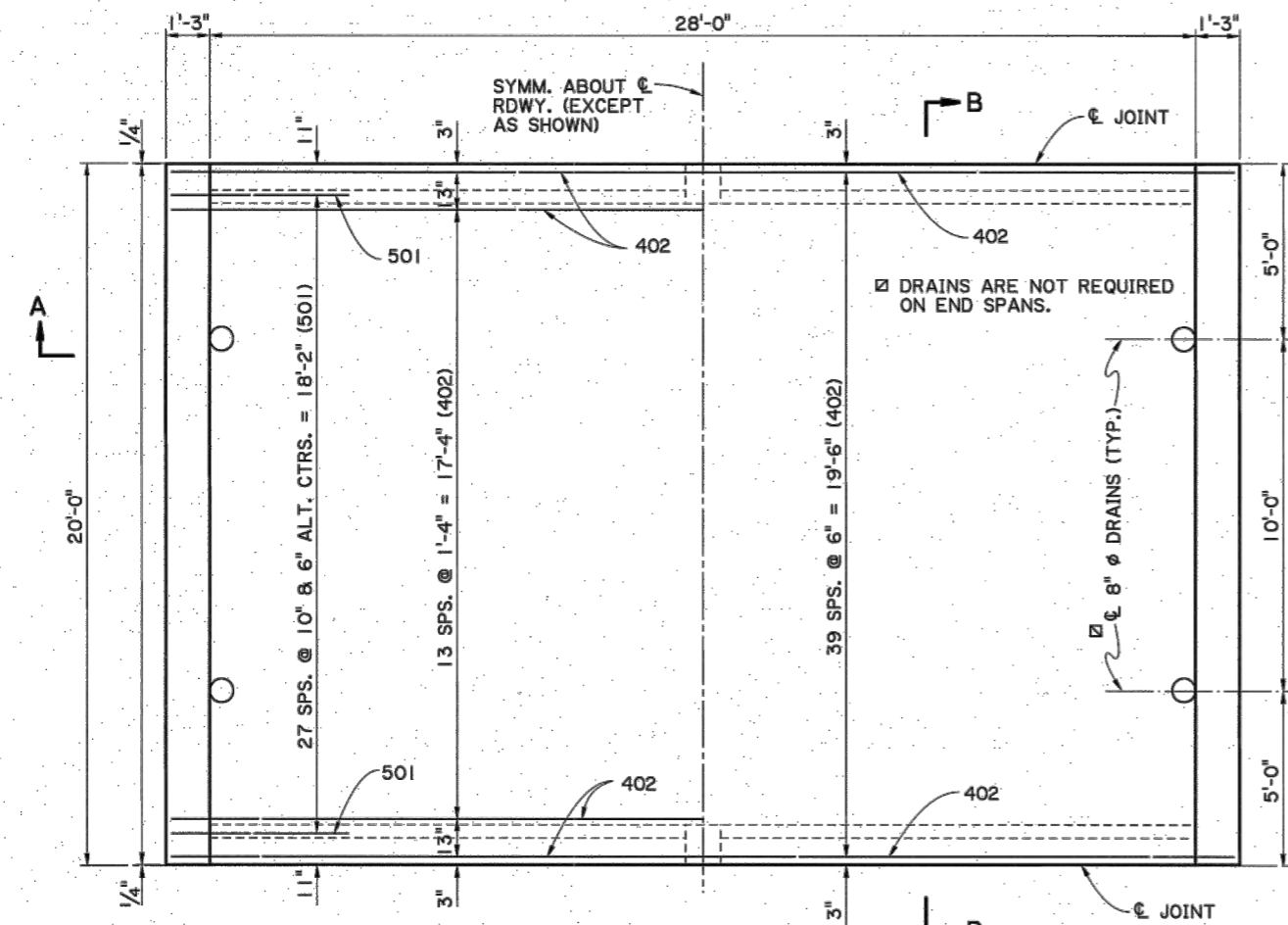
SHEET NUMBER	341
DESIGNED	A.L. LANCASTER
CHECKED	X. WANG
DETAILS	A. KUYORO
CHECKED	A.L. LANCASTER
REVIEWED	Z.Z. FU
SERIES #	1 OF 1
DATE	3-18-20
REVISION OR CHANGE ORDER DESCRIPTION	NEW SHEET
NO.	AB
BY	AB
DATE	3-18-20
NO.	AB
BY	AB
DATE	3-18-20
NO.	AB
BY	AB
DATE	3-18-20
NO.	AB
BY	AB
DATE	3-18-20

DRAINAGE DETAILS FOR
 CONCRETE APPROACH SLABS
 SLAB SPANS AND QUAD BEAM BRIDGES
 BD.2.10.1.0.07 - APPROACH SLAB COMMON
 BRIDGE AND STRUCTURAL DESIGN

(ALL DETAILS ON THIS SHEET ARE N.T.S.)

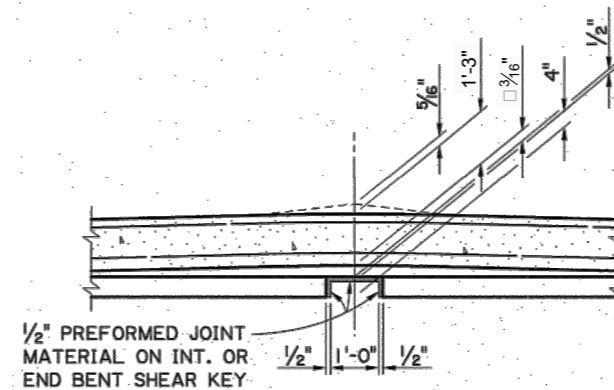


SECTION A-A
SCALE 3/8" = 1'-0"

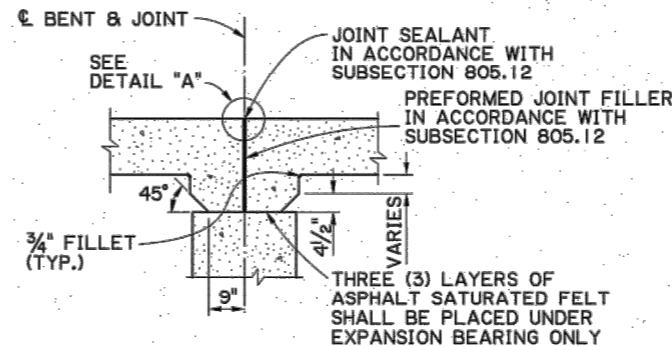


HALF SECTION
SHOWING SPACING OF
TOP TRANS. REINF. STEEL
SCALE 3/8" = 1'-0"

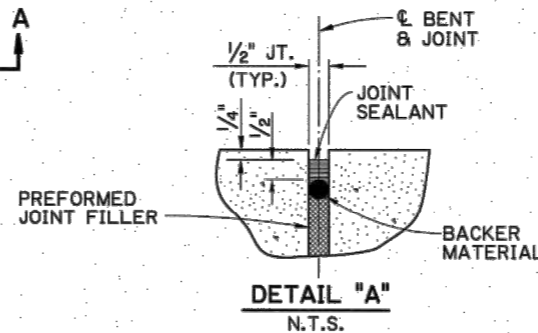
HALF SECTION
SHOWING SPACING OF
BOTTOM TRANS. REINF. STEEL
SCALE 3/8" = 1'-0"



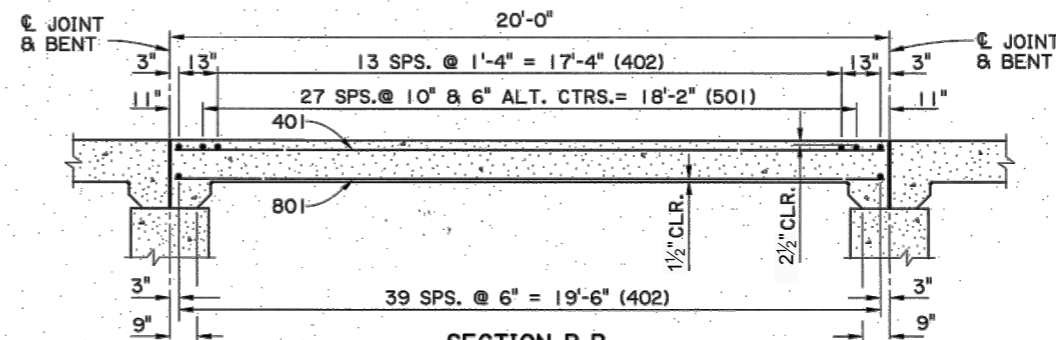
DETAIL B
SCALE: 1/2" = 1'-0"



DETAIL SHOWING TYPICAL JOINT & HAUNCH
SCALE: 1/2" = 1'-0"



DETAIL "A"
N.T.S.



SECTION B-B
SCALE 3/8" = 1'-0"

ESTIMATED QUANTITIES (ONE SPAN)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	69	19'-7"	1351'-3"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1351'-3" = 3608 LBS.				
501	56	5'-0"	280'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 280'-0" = 292 LBS.				
401	25	19'-7"	489'-7"	LONGIT. TOP OF SLAB
402	56	30'-2"	1689'-4"	TRANS. TOP & BOT. OF SLAB
TOTAL NO. 4 BARS = 2178'-11" = 1456 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 5356 LBS.				
CLASS A1 CONCRETE SLAB SPAN = 29.25 CU. YDS.				
CONCRETE RAILING SLOTTED = 40.00 LIN. FT.				

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.68	
HL-93 (OPR)	2.18	
LADV-11 (INV)	1.29	MAGNIFICATION FACTOR = 1.3

SPAN NOTES:

CONSTRUCTION SPECIFICATIONS:
LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION, WITH 2008 & 2009 INTERIMS.

DESIGN LOADS:
THE BRIDGE DECK IS DESIGNED FOR A FUTURE WEARING COURSE OF 25 PSF. THE LIVE LOAD IS HL-93, AND LADV-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

STRUCTURAL CONCRETE:
ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED. ALL BARRIER RAIL SURFACES ARE TO RECEIVE A CLASS 3 SPECIAL SURFACE FINISH.

REINFORCING STEEL:
ALL REINFORCING SHALL BE GRADE 60; DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS, DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS, UNLESS OTHERWISE NOTED. ALL REINFORCING BARS SHALL BE PLACED TO PROVIDE A MINIMUM COVER OF ONE INCH FROM THE SURFACE OF THE DRAIN HOLES TO THE FACE OF THE BARS.

GUARD RAIL:
REFER TO THE GENERAL PLAN FOR GUARD RAIL REQUIREMENTS. PROVIDE HOLES FOR GUARD RAIL CONNECTIONS ACCORDING TO STANDARD PLAN GR 200 ON ALL FOUR BRIDGE RAIL ENDS.





ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

March 30, 2020

Please find the following addendum to the below mentioned BID.

CLARIFICATION

Bid#: 20-6-2

Project Name: I-10 Service Road Bridge Replacements

Bid Due Date: Tuesday, March 31, 2020

GENERAL INFORMATION:

Due to the COVID-19 pandemic, and in an effort to help slow the spread of the virus, bid responses will be received up until the deadline of 2:00pm CST on Tuesday, March 31, 2020. All bid responses received by the deadline will be placed in quarantine for 72 hours to reduce the chance of further spread to St. Tammany Parish Government employees and/or the public. Bids will then be opened on Monday, April 6, 2020 at 10:00am CST. Openings will take place outside at the "Pavilion" of Building B located at 21454 Koop Drive, Mandeville, La. 70471. Any questions regarding this should be directed to the Department of Procurement via email at purchasing@stpgov.org. We will be accepting hand delivered bids tomorrow starting at 8:00am until the 2:00pm deadline. Please call Procurement office at 985-898-2520 and we will meet you at the front entrance of Building B to collect bids and issue a receipt.

CLARIFICATION ON QUESTIONS:

Question 1: Are these bridges considered off system bridges?

Answer 1: They are considered off-system bridges, but the sleeper slab is still required.

Question 2: Can you either give me the existing ADT or let me know if PG67 or PG70 is required in the LEVEL 1 WEARING AND LEVEL 1 BINDER?

Answer 2: PG 67 is allowed in wearing and binder.

Question 3: Does the contractor retain 100% of the RAP generated from the milling?

Answer 3: Yes, they do retain all rap.

Question 4: Can you clarify that this is an off-system bridge and that no sleeper slab is required under the approach slab sheet 341?

Answer 4: A 5' long by 12" deep sleeper slab will be required at each approach slab per sheet number 341. Reinforcing steel shall be #5 bars @ 9" spacing top and bottom each way.

Question 5: Will the contractor be allowed to cross the existing channels with equipment to facilitate construction (i.e. low water crossing)?

Answer 5: Contractor may cross the channel as long as it does not impede with the flow of the channel.

Question 6: Is there a standard available for the yard drain?

Answer 6: See plan sheet 341, LADOTD standard specification section 703, material specification section 1006, and LADOTD Underdrain and Yard Drain Systems approved materials list.

Question 7: The 30" RCPA added to the project in addendum 2 seems to have an incorrect quantity. Adding up the pipe runs on sheets 20-22 comes to a quantity of 1,139 lf. Please advise.

Answer 7: The additional 29 LF of 30" pipe will be used to extend end of the pipe near station 102+50

End of Clarification