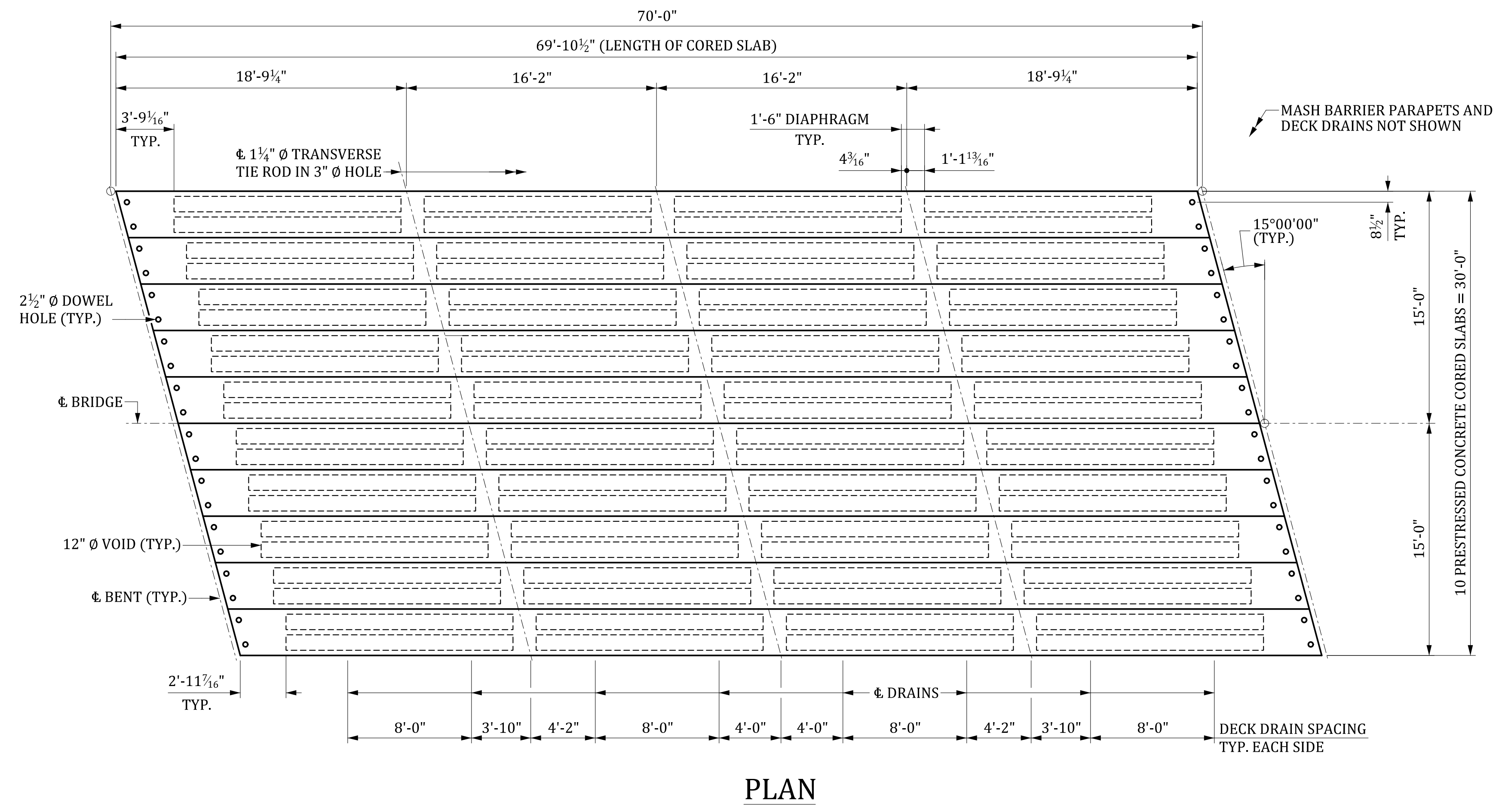


DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-10½"	1'-7"				5'-1"
J0402	130	2'-8"	1'-7"				5'-10"
J0403	4	1'-8½"	2'-8"				7'-1"
J0404	12	2'-8½"	1'-7"				5'-11"
J0405	20	2'-9"	1'-7"				5'-11"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 80	5½"					7'-7"
LA0502	① 6	5¾"					7'-7"

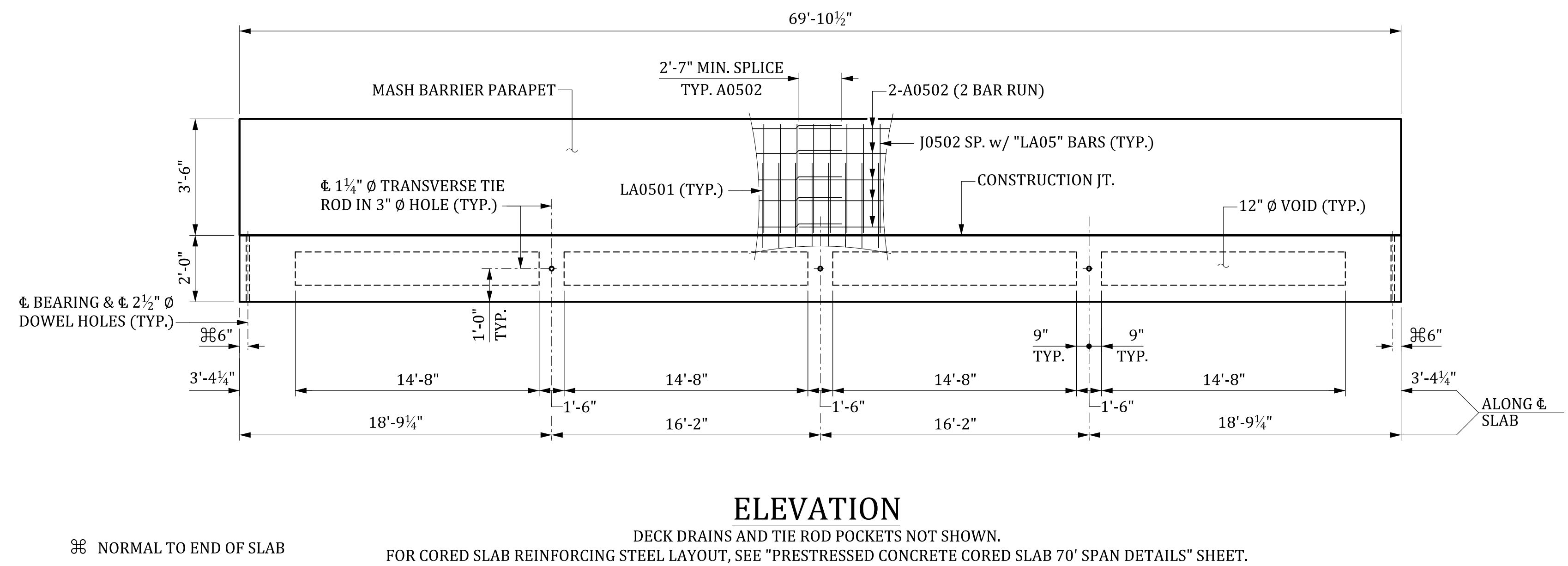
QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	858	1,538
CONCRETE, Fc 8,000	CY	11.9	12.0
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0502	20	36'-1"			36'-1"
A0503	16	5'-0"			5'-0"
J0502	86	5½"	3'-3"		7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	698.8
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	216.5



NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

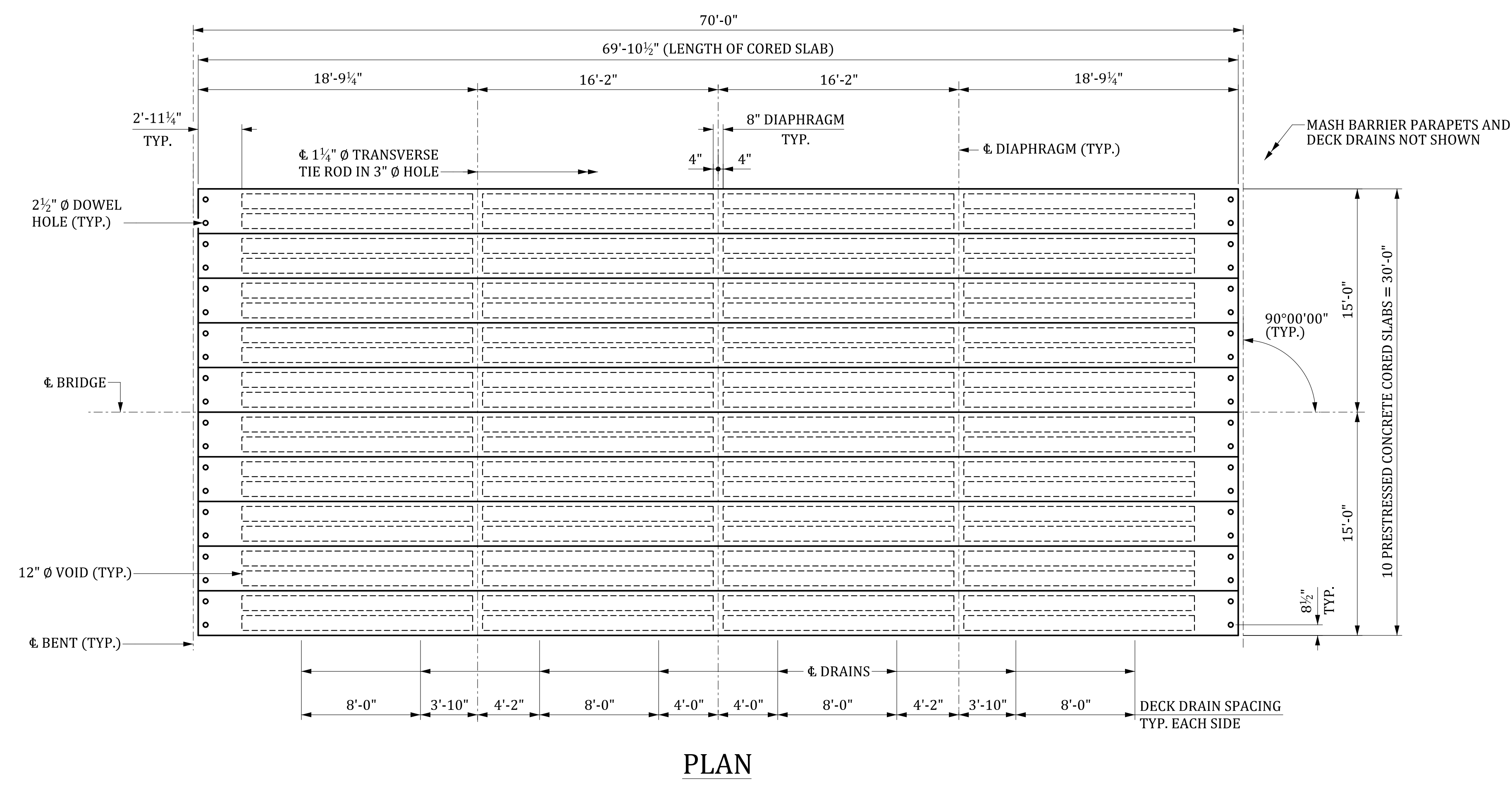
CONSULTANT NAME/LOGO
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
PRESTRESSED CONCRETE CORED SLAB 70' SPAN 27'-10" ROADWAY (-15° SKEW)
COUNTY: ###
ROUTE: ###

MBreeland 6/25/2024 5:22:24 PM 704_ACS_070.dgn

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SJA	BWB	10-23
DES.	BY	CHK.	DATE

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-9½"	1'-7"				5'-0"
J0402	160	2'-8"	1'-7"				5'-10"
J0403	4	1'-8½"	2'-8"				7'-1"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 86	5½"					7'-7"

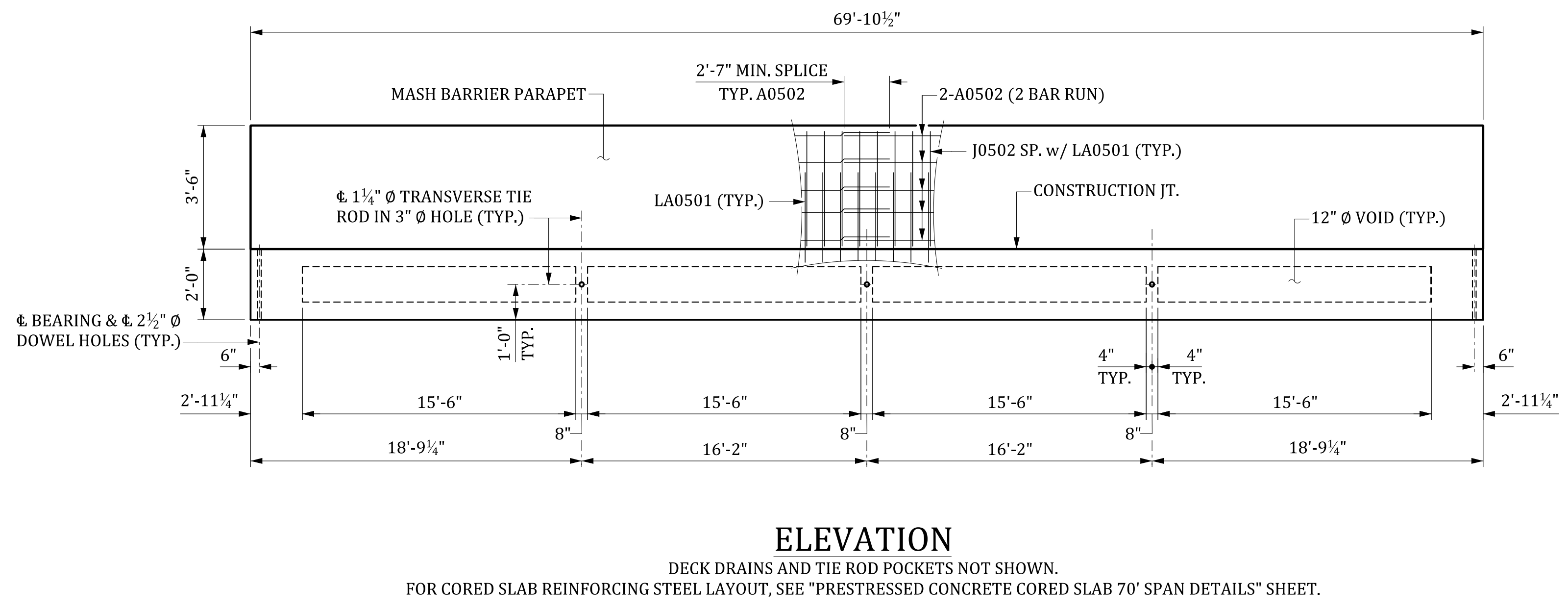
QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	848	1,528
CONCRETE, f'c 8,000	CY	11.7	11.8
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0502	20	36'-1"					36'-1"
A0503	16	5'-0"					5'-0"
J0502	86	5½"	3'-3"				7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	698.8
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	216.5



NOTE:
 FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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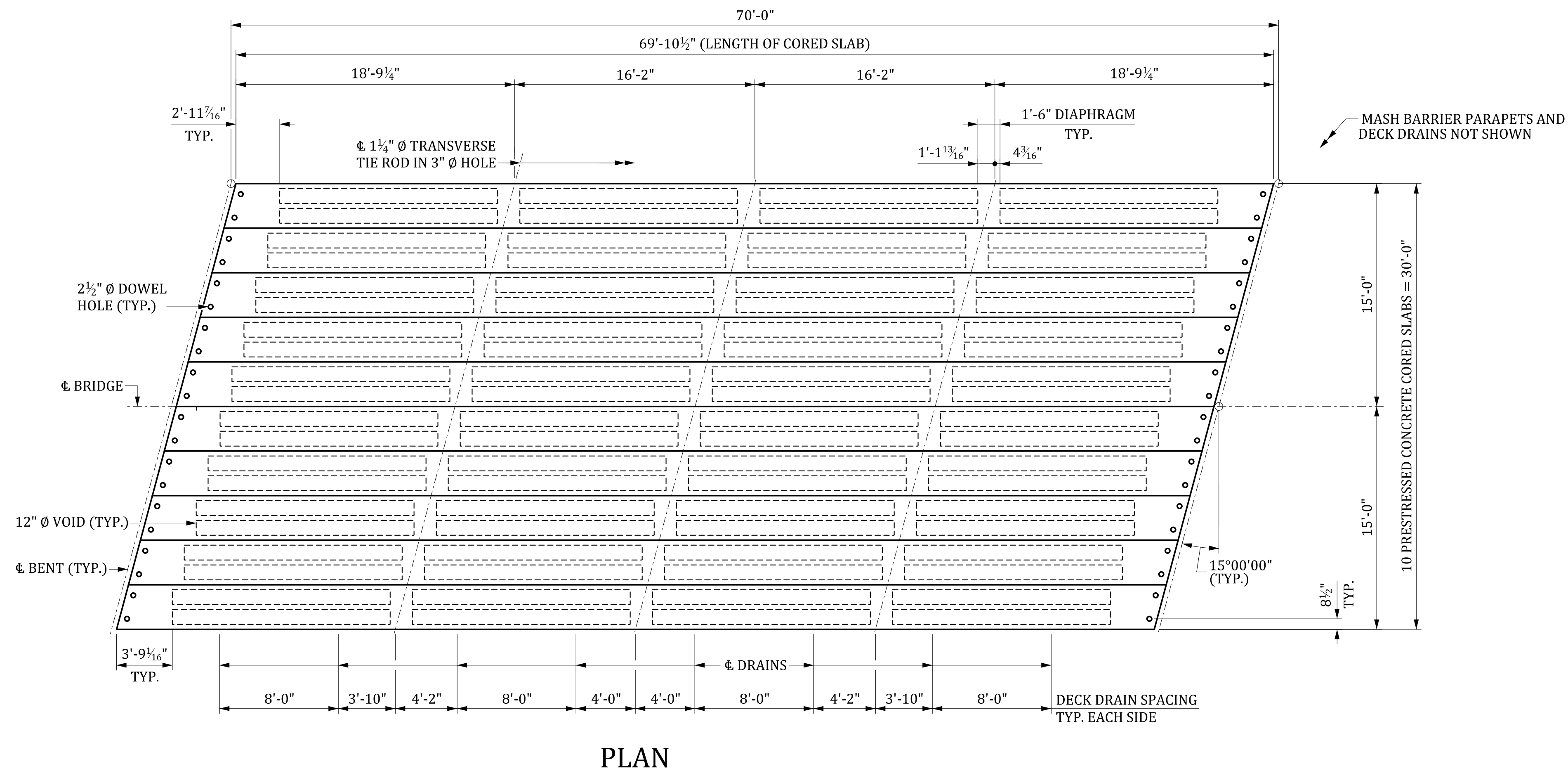
CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 70' SPAN 27'-10" ROADWAY (0° SKEW)	
COUNTY: ###	ROUTE: ###

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SJA	BWB	10-23
DES.	BY	CHK.	DATE

MBreeland 6/25/2024 5:22:26 PM 704_ACS_070.dgn

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-10 1/2"	1'-7"				5'-1"
J0402	130	2'-8"	1'-7"				5'-10"
J0403	4	1'-8 1/2"	2'-8"				7'-1"
J0404	12	2'-8 1/2"	1'-7"				5'-11"
J0405	20	2'-9"	1'-7"				5'-11"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 80	5 1/2"					7'-7"
LA0502	① 6	5 3/4"					7'-7"

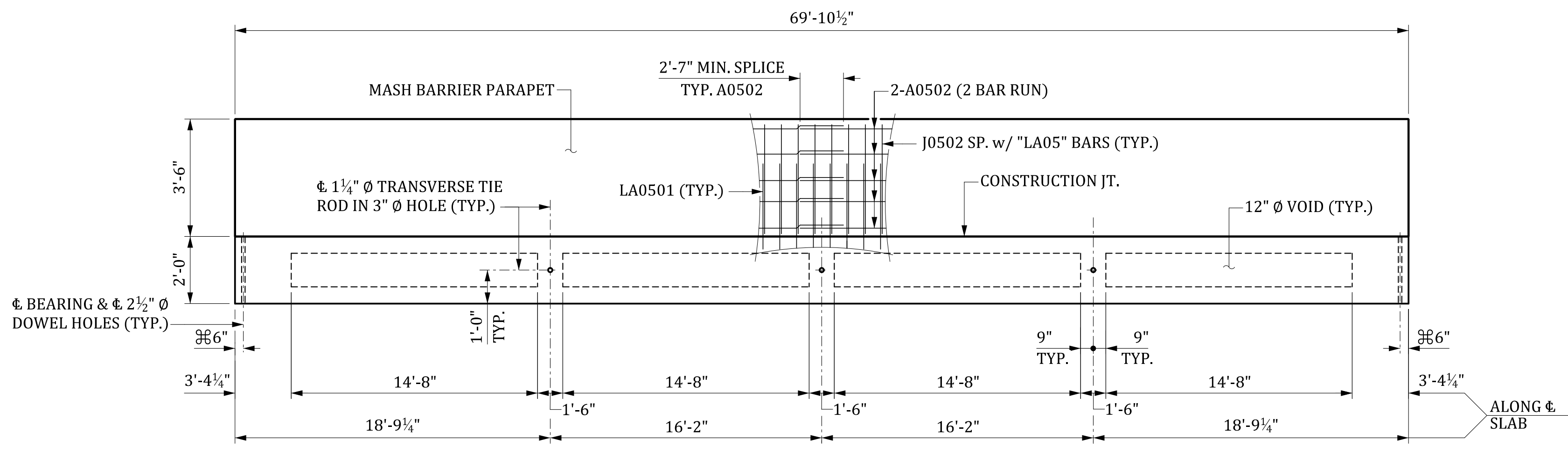
QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	858	1,538
CONCRETE, Fc 8,000	CY	11.9	12.0
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0502	20	36'-1"			36'-1"
A0503	16	5'-0"			5'-0"
J0502	86	5 1/2"	3'-3"		7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	698.8
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	216.5



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

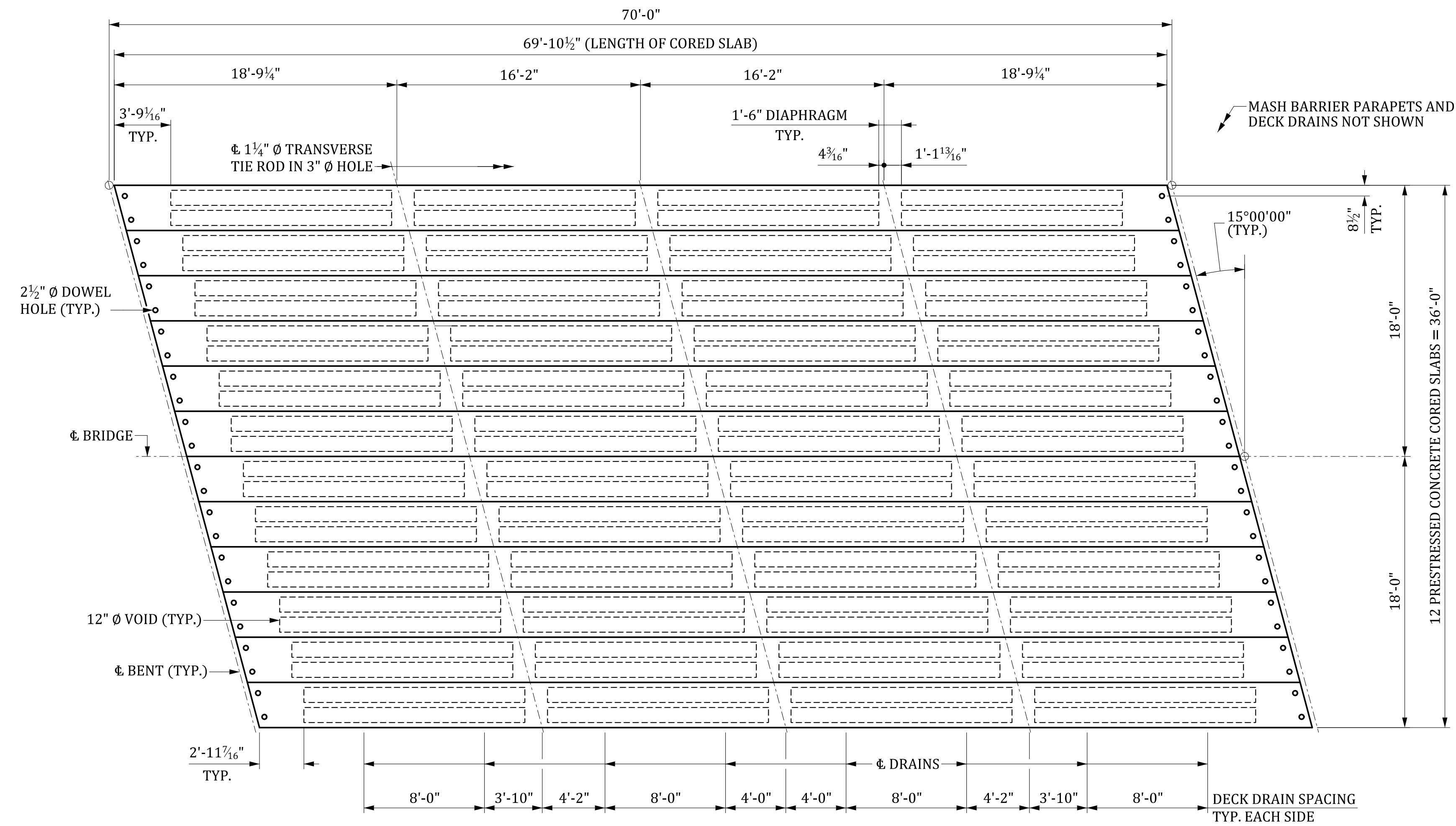
THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 70' SPAN 27'-10" ROADWAY (+15° SKEW)	
COUNTY: ###	ROUTE: ###

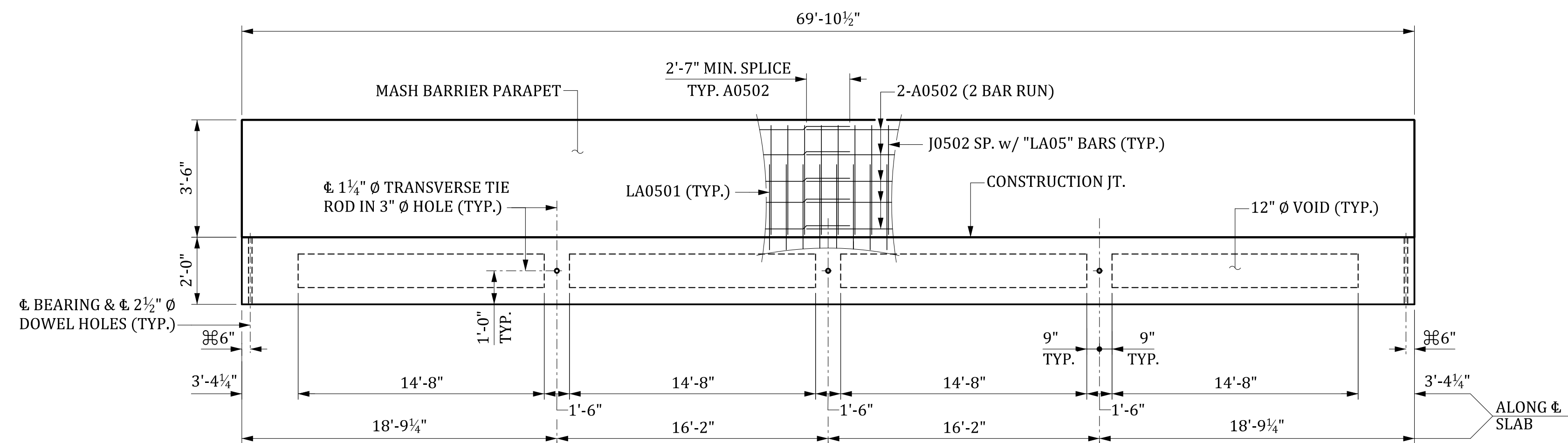
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SJA	BWB	10-23
DES.			

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

⊘ NORMAL TO END OF SLAB

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"	---	---	---	---	35'-10"
J0401	8	1'-10 1/2"	1'-7"	---	---	---	5'-1"
J0402	130	2'-8"	1'-7"	---	---	---	5'-10"
J0403	4	1'-8 1/2"	2'-8"	---	---	---	7'-1"
J0404	12	2'-8 1/2"	1'-7"	---	---	---	5'-11"
J0405	20	2'-9"	1'-7"	---	---	---	5'-11"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 80	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	858	1,538
CONCRETE, Fc 8,000	CY	11.9	12.0
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0502	20	36'-1"	---	---	---	36'-1"
A0503	16	5'-0"	---	---	---	5'-0"
J0502	86	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	838.5
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	263.2

NOTE:

FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
70' SPAN
33'-10" ROADWAY (-15° SKEW)

COUNTY: #####

ROUTE: #####

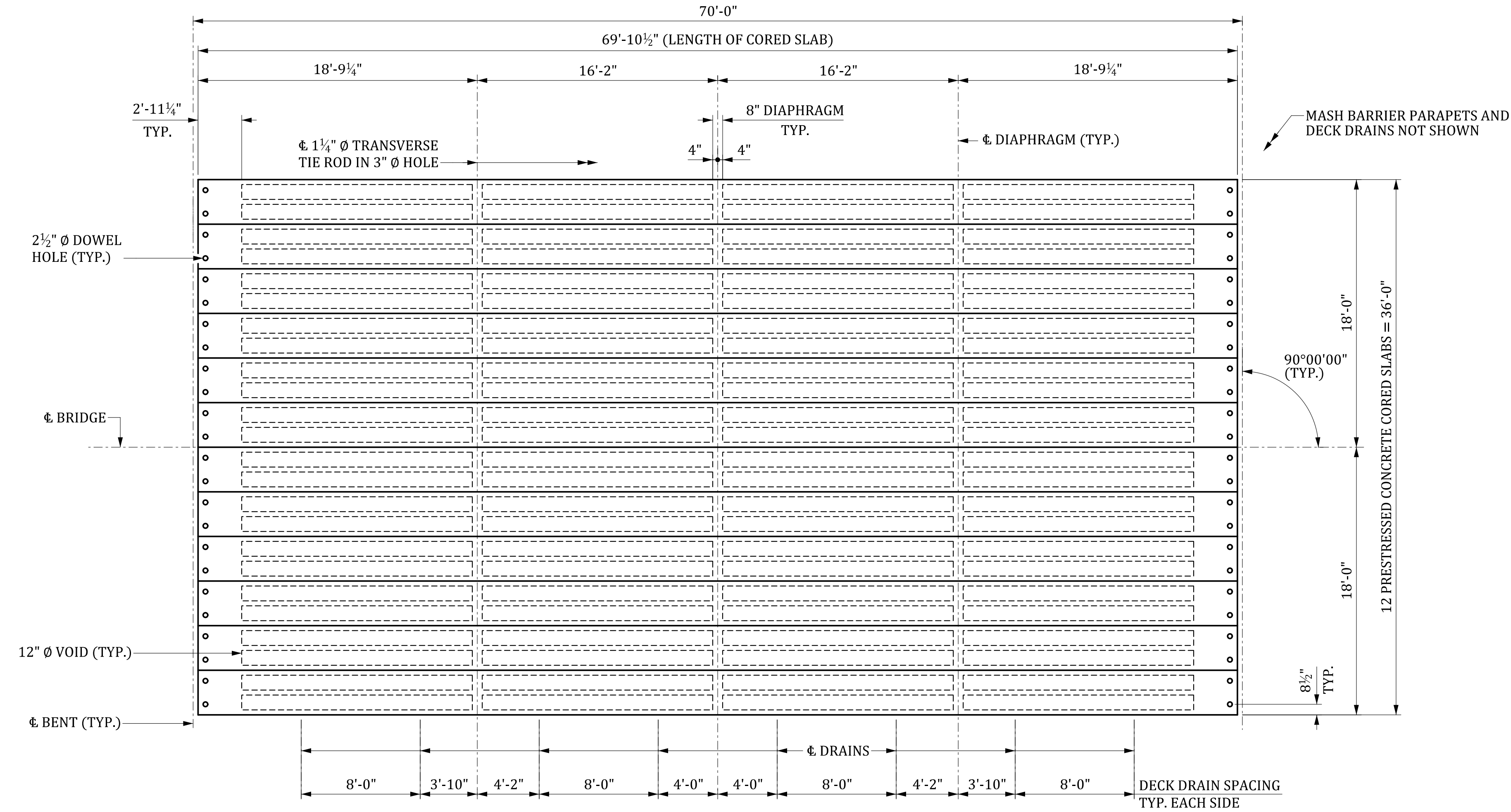
DRAWING NUMBER: 704-ACS.S070.R34.SK-15

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SJA	BWB	10-23
DES.	BY	CHK.	DATE

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DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-9 1/2"	1'-7"				5'-0"
J0402	160	2'-8"	1'-7"				5'-10"
J0403	4	1'-8 1/2"	2'-8"				7'-1"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 86	5 1/2"					7'-7"

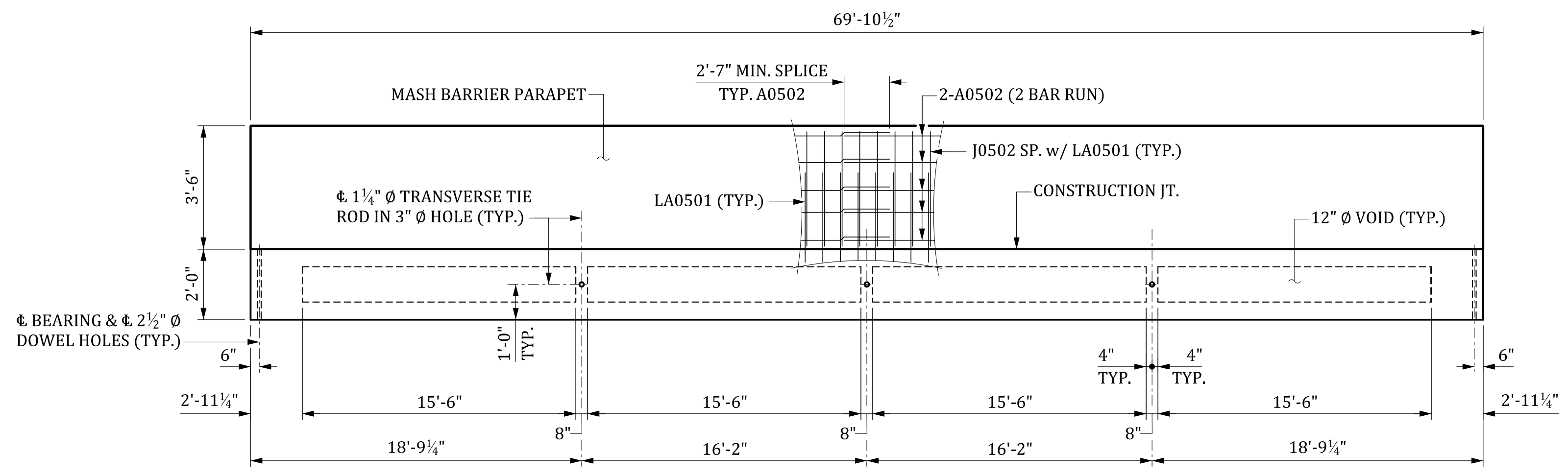
QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	848	1,528
CONCRETE, f'c 8,000	CY	11.7	11.8
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0502	20	36'-1"					36'-1"
A0503	16	5'-0"					5'-0"
J0502	86	5 1/2"	3'-3"				7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	838.5
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	263.2



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

NOTE:
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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**PRESTRESSED CONCRETE CORED SLAB
70' SPAN
33'-10" ROADWAY (0° SKEW)**

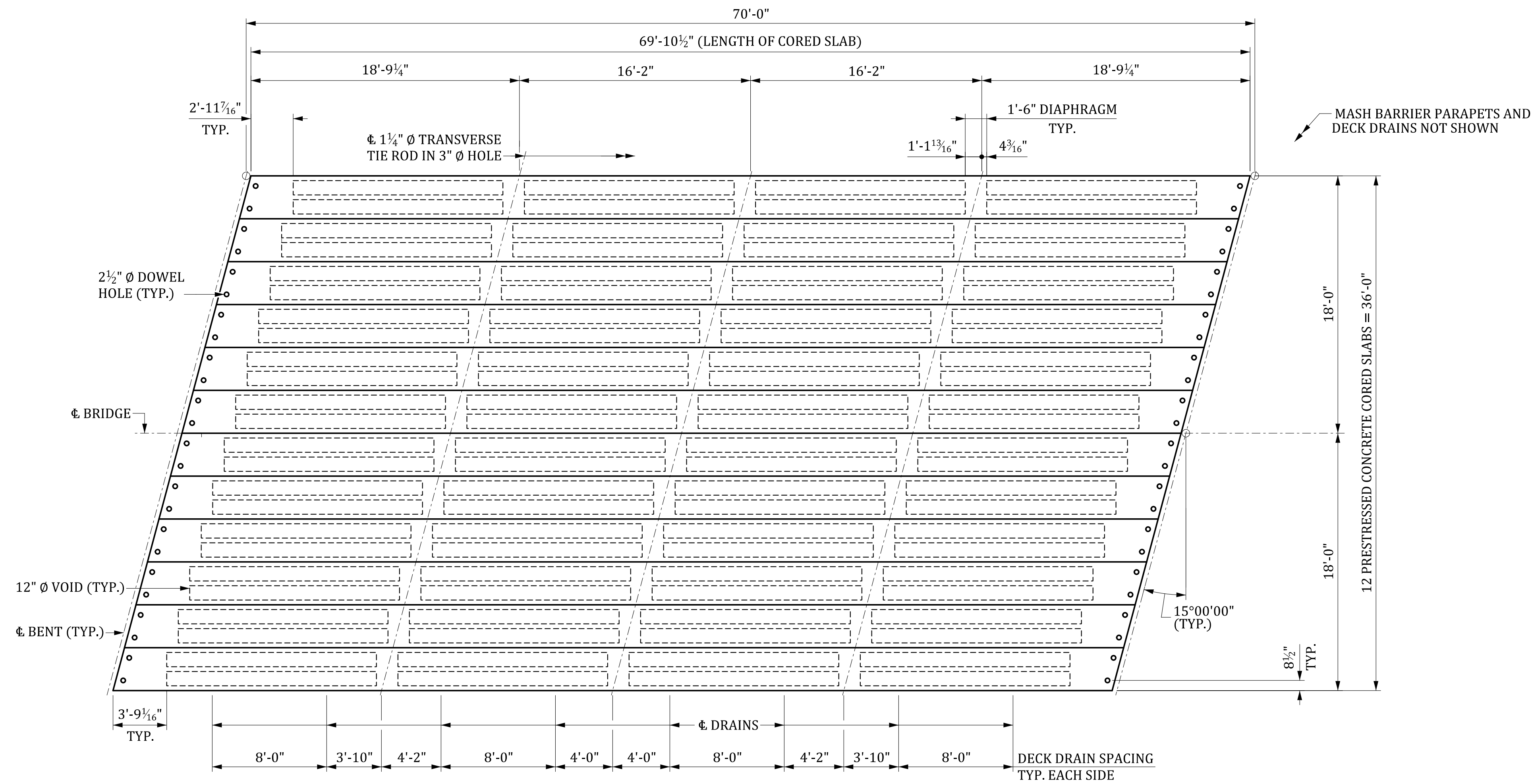
COUNTY: #### ROUTE: ####

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REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SJA	BWB	10-23
DES.	BY	CHK.	DATE

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-10 1/2"	1'-7"				5'-1"
J0402	130	2'-8"	1'-7"				5'-10"
J0403	4	1'-8 1/2"	2'-8"				7'-1"
J0404	12	2'-8 1/2"	1'-7"				5'-11"
J0405	20	2'-9"	1'-7"				5'-11"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 80	5 1/2"					7'-7"
LA0502	① 6	5 3/4"					7'-7"

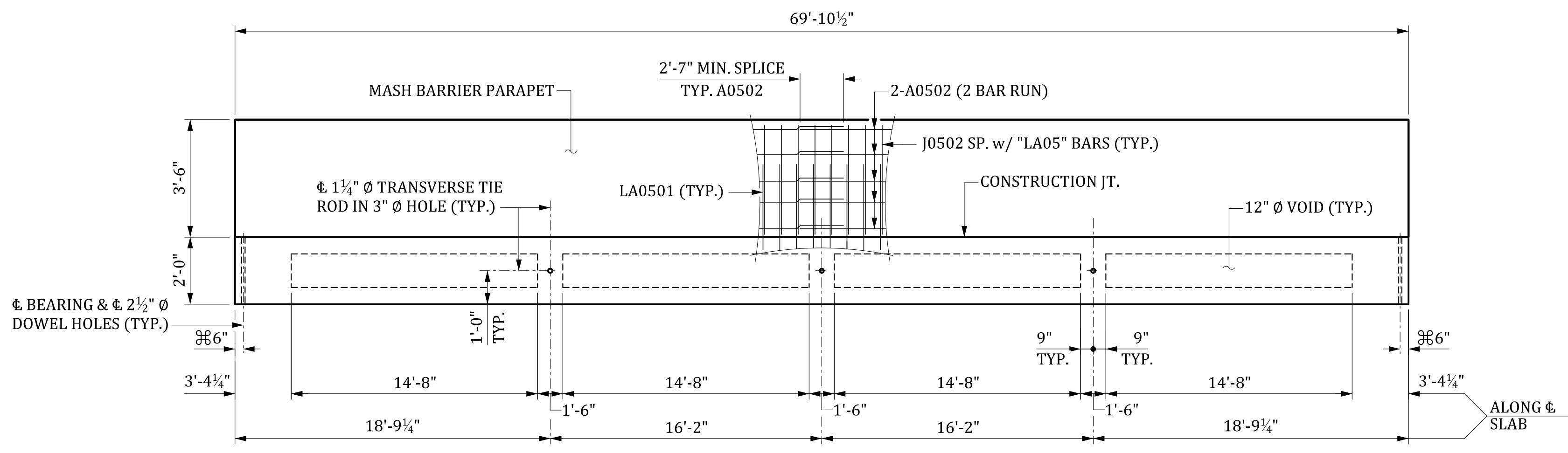
QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	858	1,538
CONCRETE, Fc 8,000	CY	11.9	12.0
0.6" ϕ L.R. STRANDS	LF	1,887	1,887

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0502	20	36'-1"			36'-1"
A0503	16	5'-0"			5'-0"
J0502	86	5 1/2"	3'-3"		7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	838.5
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	263.2



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
70' SPAN
33'-10" ROADWAY (+15° SKEW)

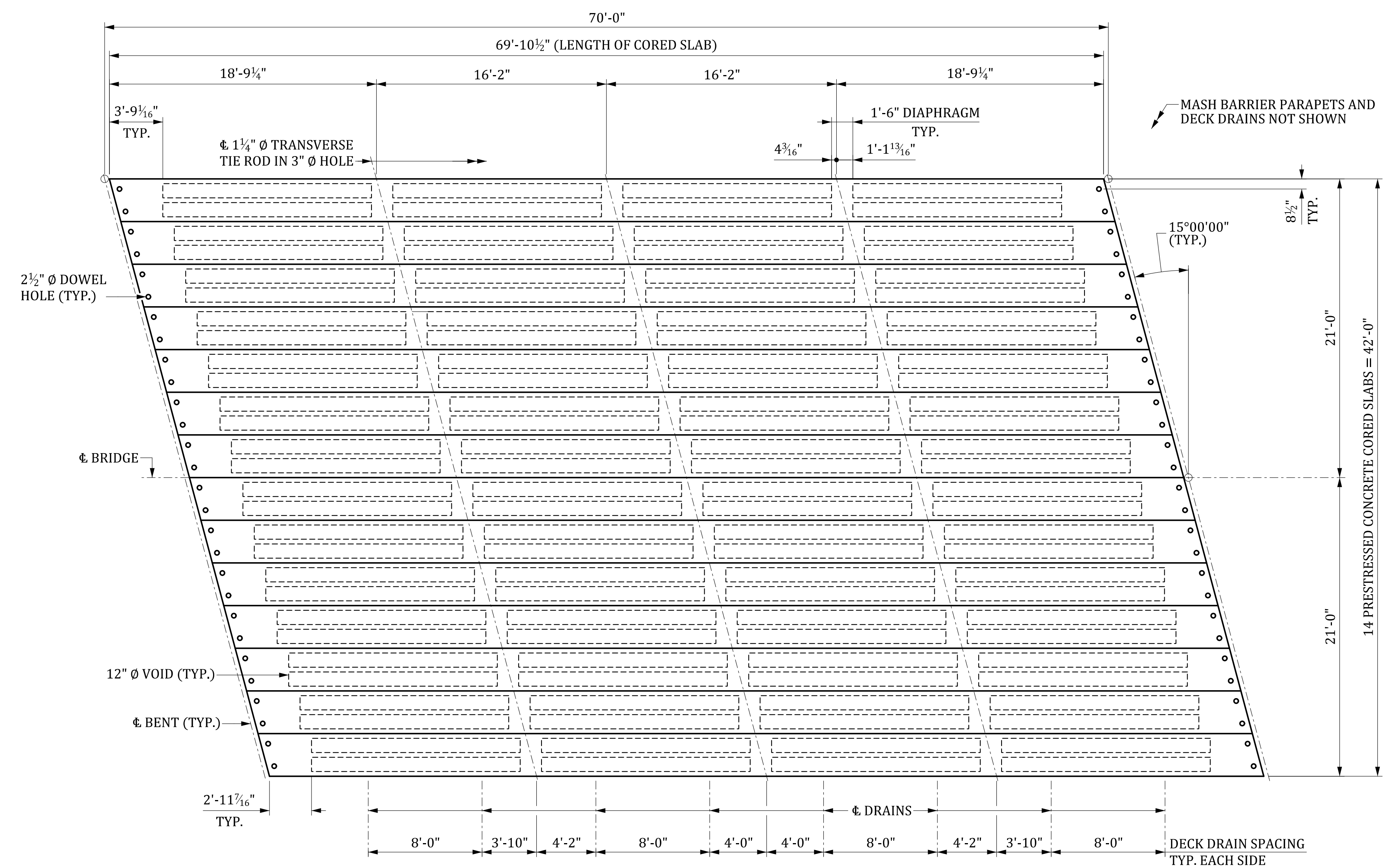
COUNTY: #### ROUTE: ####

MBreeland 6/25/2024 5:22:27 PM 704_ACS_070.dgn

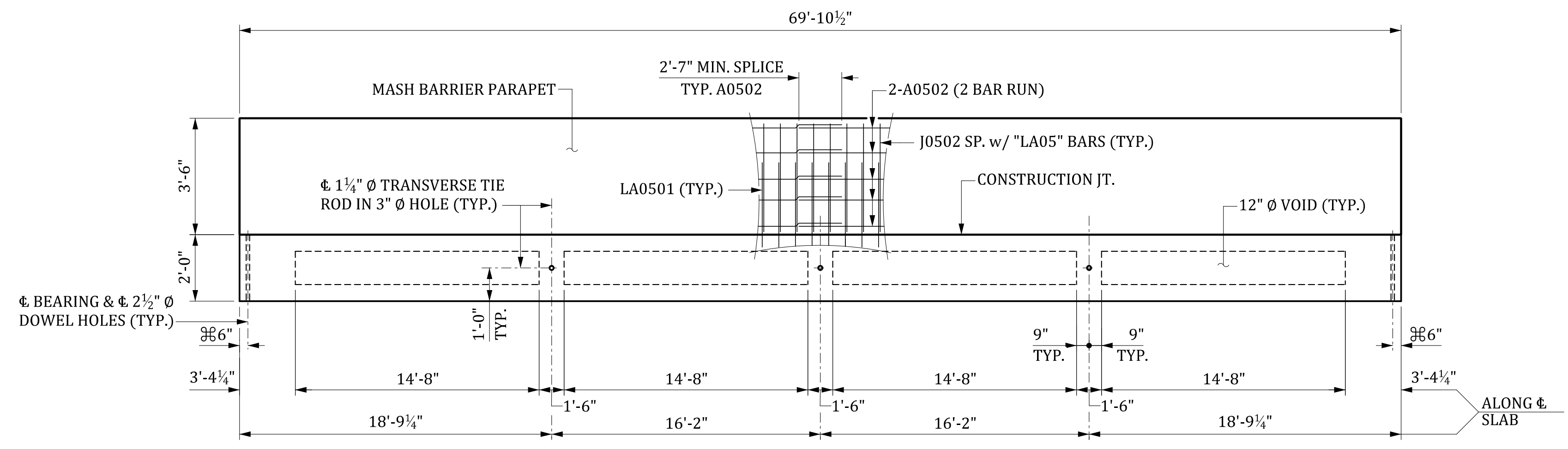
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-10 1/2"	1'-7"				5'-1"
J0402	130	2'-8"	1'-7"				5'-10"
J0403	4	1'-8 1/2"	2'-8"				7'-1"
J0404	12	2'-8 1/2"	1'-7"				5'-11"
J0405	20	2'-9"	1'-7"				5'-11"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 80	5 1/2"					7'-7"
LA0502	① 6	5 3/4"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	858	1,538
CONCRETE, Fc 8,000	CY	11.9	12.0
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0502	20	36'-1"			36'-1"
A0503	16	5'-0"			5'-0"
J0502	86	5 1/2"	3'-3"		7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	978.3
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	309.8

NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
70' SPAN
39'-10" ROADWAY (-15° SKEW)

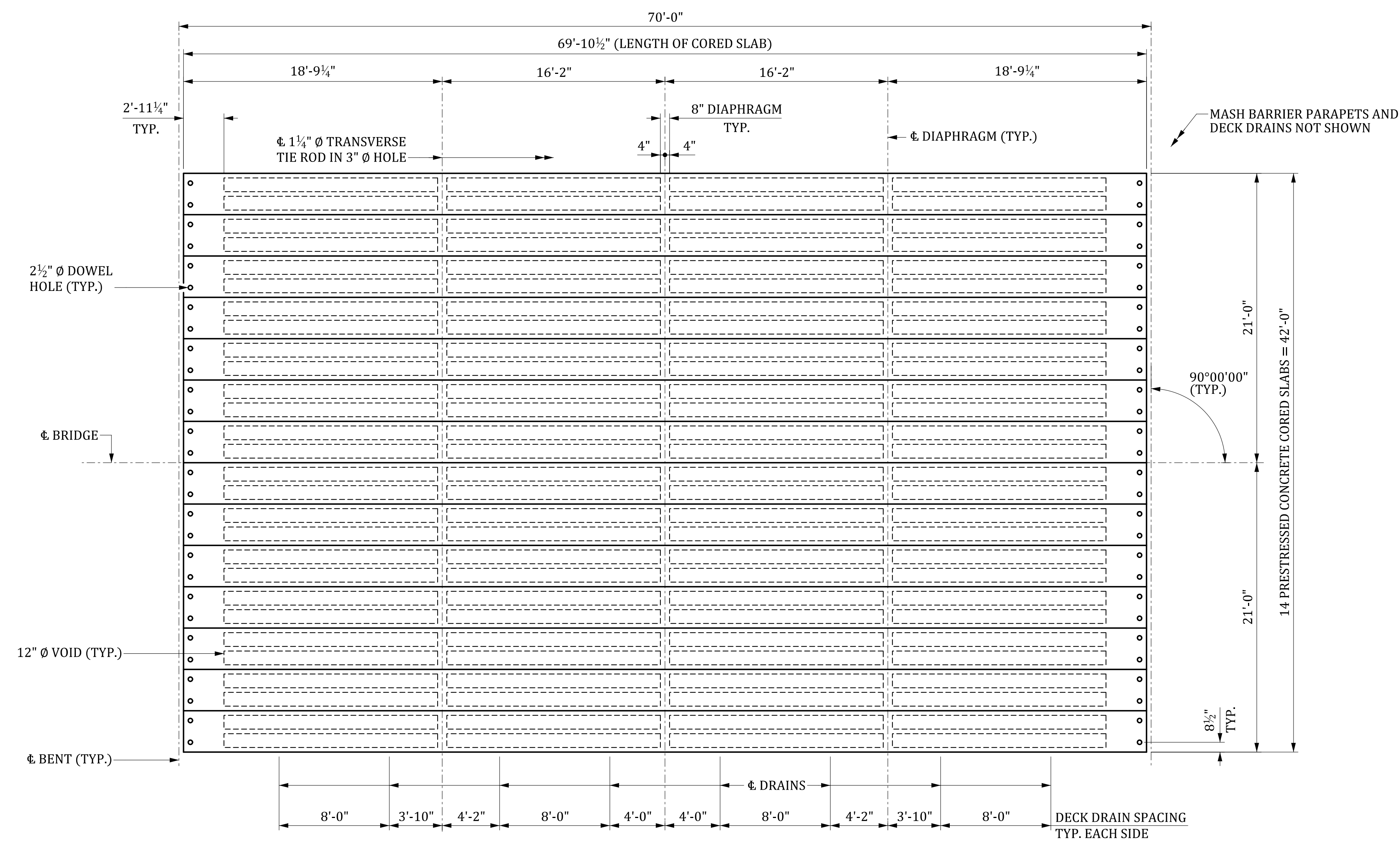
COUNTY: ###-### ROUTE: ###-###

MBReeland 6/25/2024 5:22:32 PM 704_ACS_070.dgn

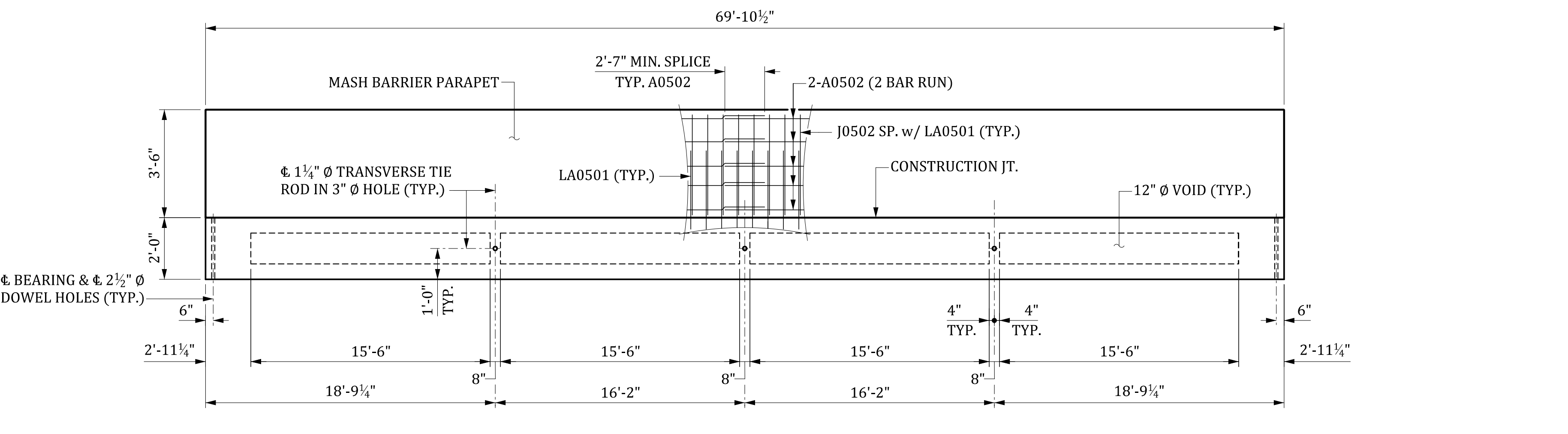
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"					35'-10"
J0401	8	1'-9 1/2"	1'-7"				5'-0"
J0402	160	2'-8"	1'-7"				5'-10"
J0403	4	1'-8 1/2"	2'-8"				7'-1"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 86	5 1/2"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	848	1,528
CONCRETE, f'c 8,000	CY	11.7	11.8
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0502	20	36'-1"					36'-1"
A0503	16	5'-0"					5'-0"
J0502	86	5 1/2"	3'-3"				7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	978.3
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	309.8

NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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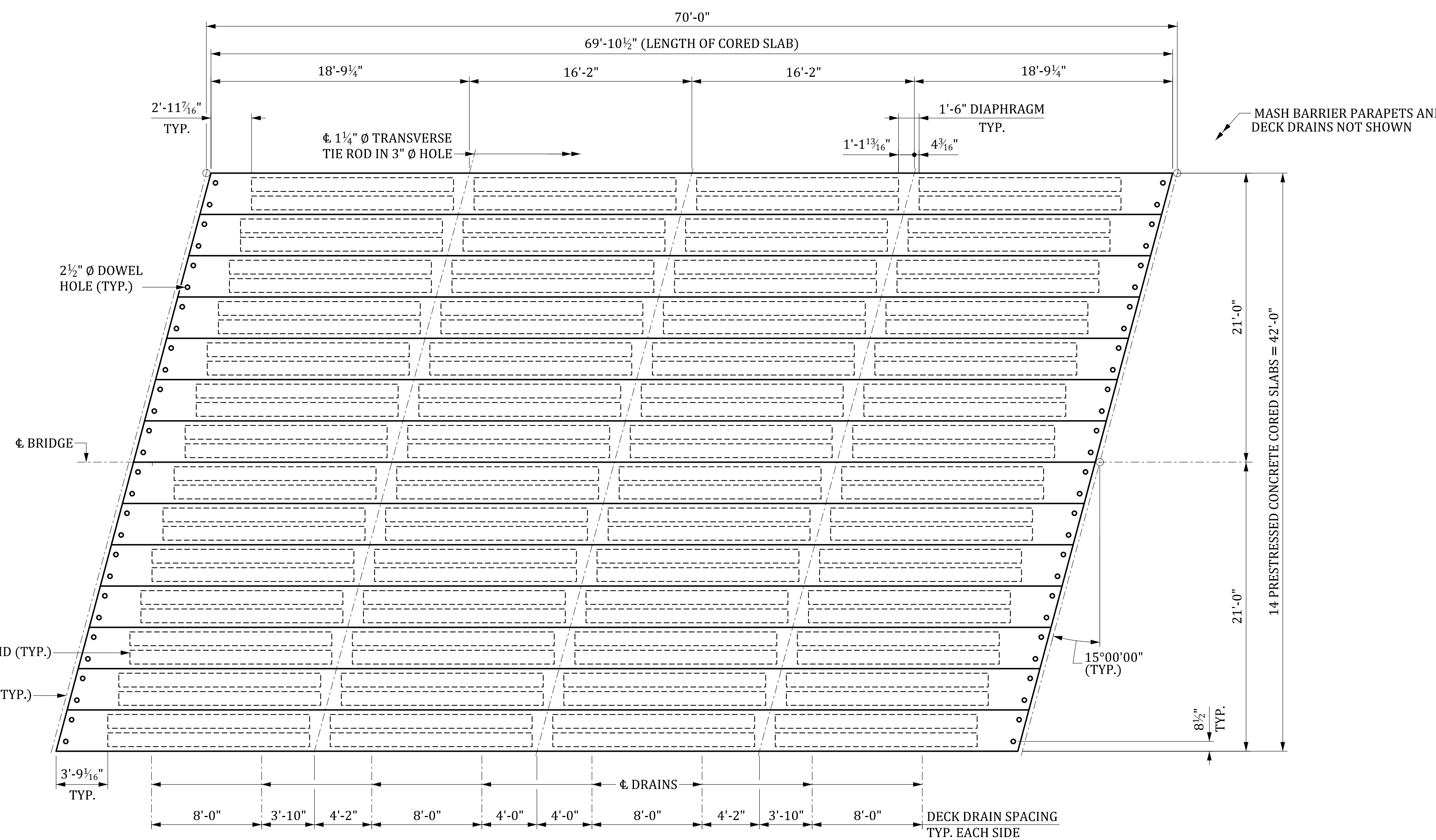
CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 70' SPAN 39'-10" ROADWAY (0° SKEW)	
COUNTY: ####	ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

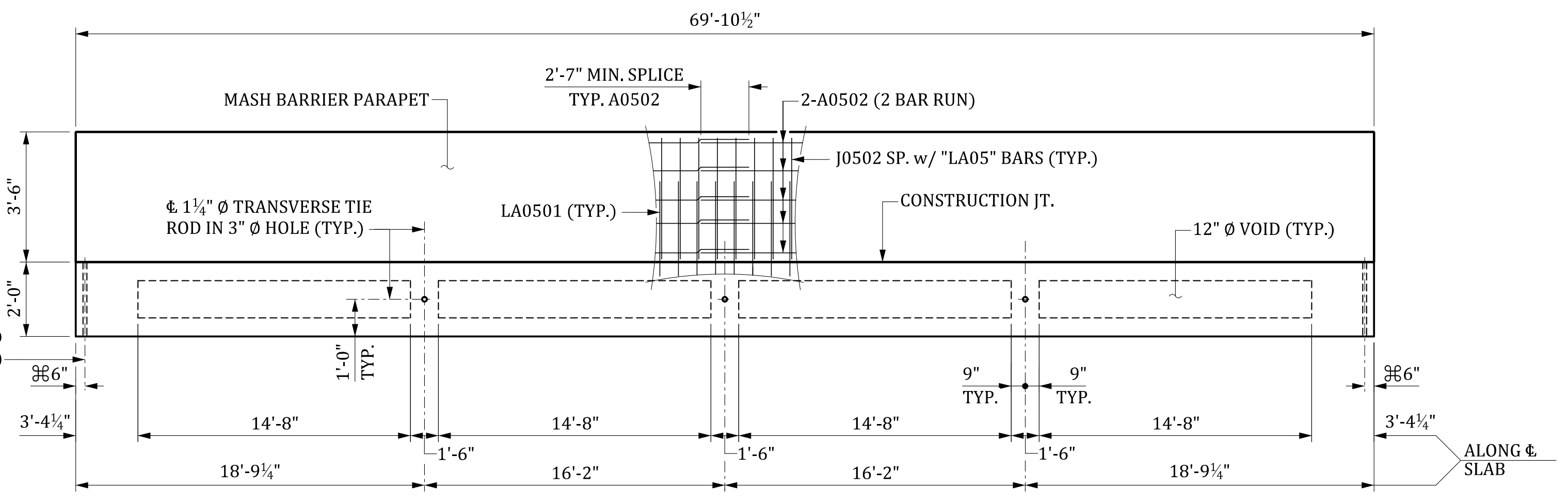
REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SJA	BWB	10-23
DES.	BY	CHK.	DATE

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DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 70' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	4	35'-10"	---	---	---	---	35'-10"
J0401	8	1'-10 1/2"	1'-7"	---	---	---	5'-1"
J0402	130	2'-8"	1'-7"	---	---	---	5'-10"
J0403	4	1'-8 1/2"	2'-8"	---	---	---	7'-1"
J0404	12	2'-8 1/2"	1'-7"	---	---	---	5'-11"
J0405	20	2'-9"	1'-7"	---	---	---	5'-11"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 80	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	858	1,538
CONCRETE, Fc 8,000	CY	11.9	12.0
0.6" Ø L.R. STRANDS	LF	1,887	1,887

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 70' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0502	20	36'-1"	---	---	36'-1"
A0503	16	5'-0"	---	---	5'-0"
J0502	86	5 1/2"	3'-3"	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	140.0
REINFORCING STEEL	LB	1,464
MASH CONCRETE BARRIER PARAPET	LF	70.0

ESTIMATED QUANTITIES - ONE 70' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	280.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	2,928
3'-0" X 2'-0" CORED SLABS	LF	978.3
MASH CONCRETE BARRIER PARAPET	LF	140.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	309.8

NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

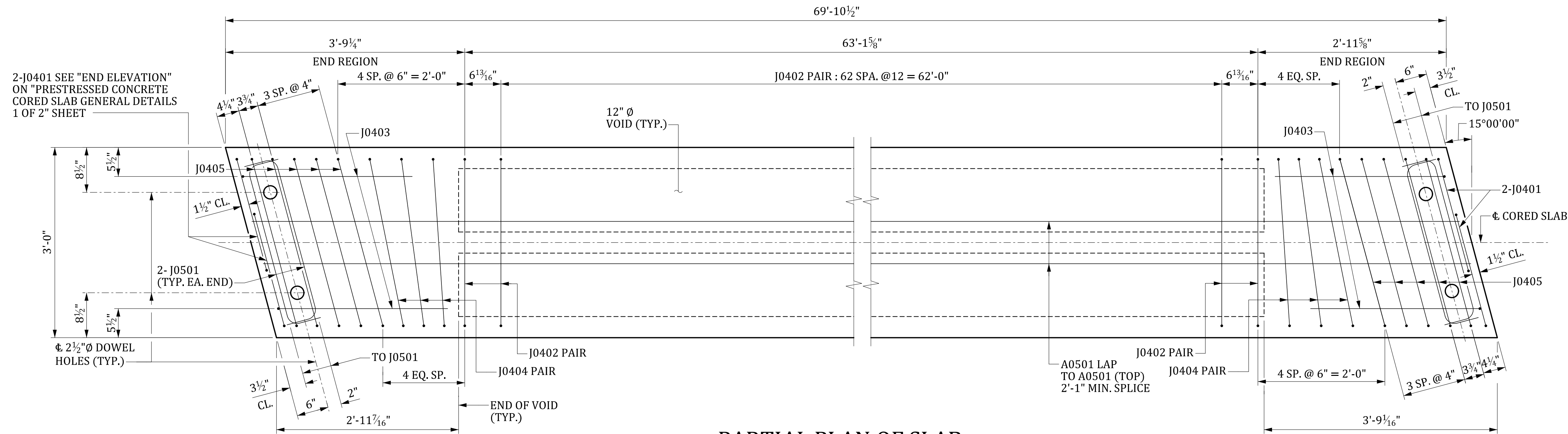
**PRESTRESSED CONCRETE CORED SLAB
70' SPAN
39'-10" ROADWAY (+15° SKEW)**

COUNTY: ###-### ROUTE: ###-###

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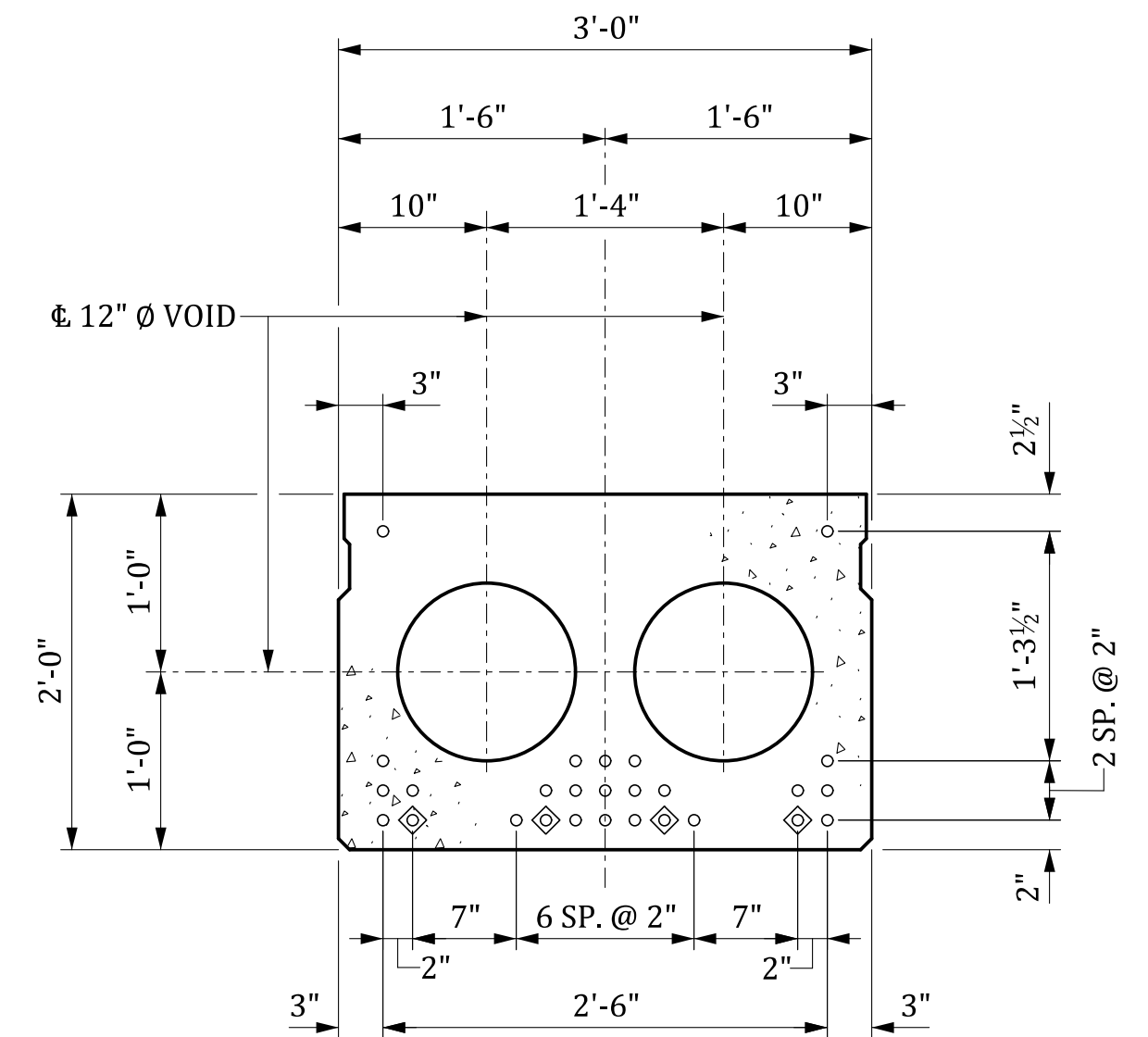
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	SIA	BWB	10-23
DES.	BY	CHK.	DATE



PARTIAL PLAN OF SLAB

STRANDS NOT SHOWN.
 INTERIOR SLAB SHOWN, EXTERIOR SLAB SIMILAR EXCEPT BARRIER REINFORCEMENT, SEE BELOW.

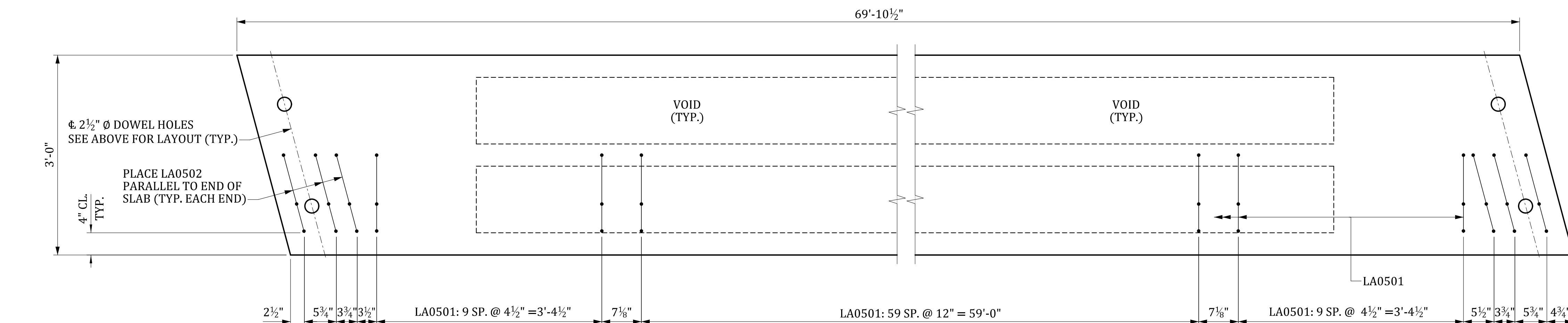


STRAND LAYOUT

INTERIOR SLAB SHOWN - EXTERIOR SLAB SIMILAR EXCEPT SHEAR KEY LOCATION.
 ○ FULLY BONDED STRANDS
 ◇ DEBONDED STRANDS FOR 6'-0" FROM END OF SLAB

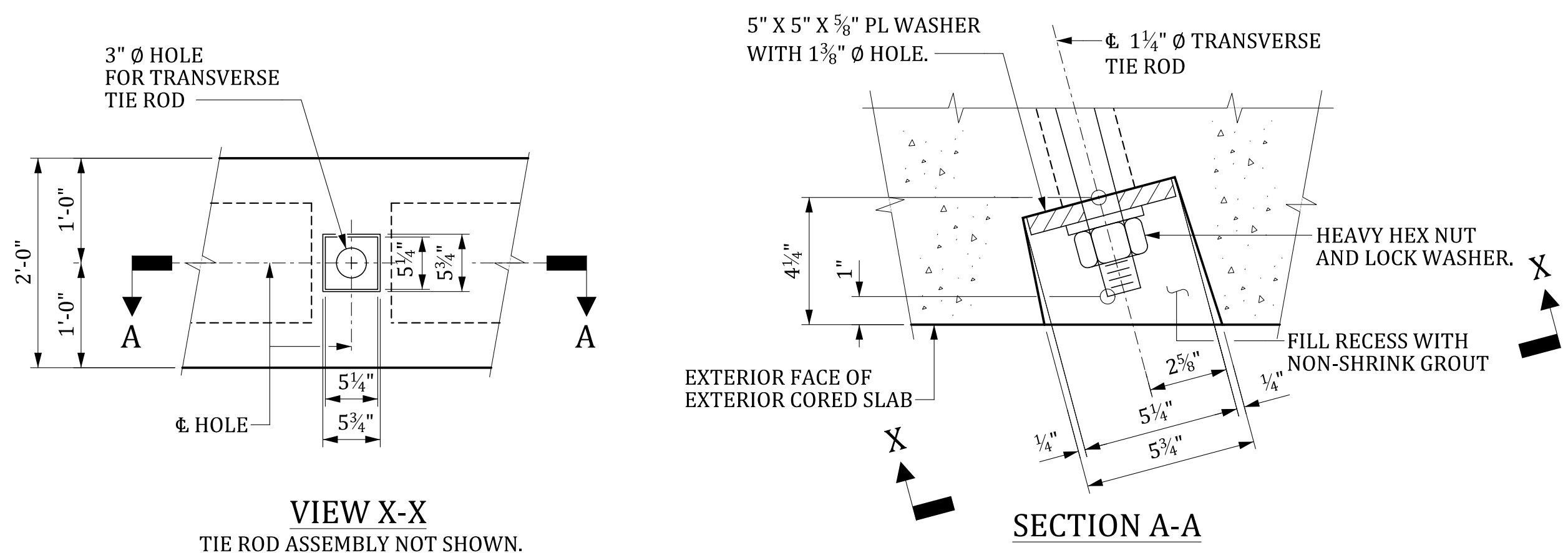
NOTE:
 BOND SHALL BE BROKEN ON STRANDS AS SHOWN FOR THE SPECIFIED LENGTH FROM EACH END OF THE CORED SLAB. SEE NOTES ON "PRESTRESSED CONCRETE CORED SLAB TYPICAL SUPERSTRUCTURE SECTION" SHEET.

DESIGN DATA	
STRANDS:	0.6"Ø LOW RELAXATION GRADE 270
	AREA=0.217 SQ. IN.
	TENSIONING LOAD = 43.9 KIPS
CONCRETE:	f'c = 8.0 KSI
	f'ci = 6.0 KSI



PARTIAL PLAN OF EXTERIOR SLAB

SHOWING PLACEMENT OF LA0501 AND LA0502 BARS FOR MASH BARRIER PARAPET.
 "LA05" BARS MAY BE SHIFTED SLIGHTLY TO AVOID STIRRUPS.



TIE ROD POCKET DETAIL

EXTERIOR FACE OF EXTERIOR SLAB.

NOTE:
 FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN-PLAN" SHEET.
 STIRRUPS AND VERTICAL BARRIER REINFORCEMENT MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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CONSULTANT NAME/LOGO

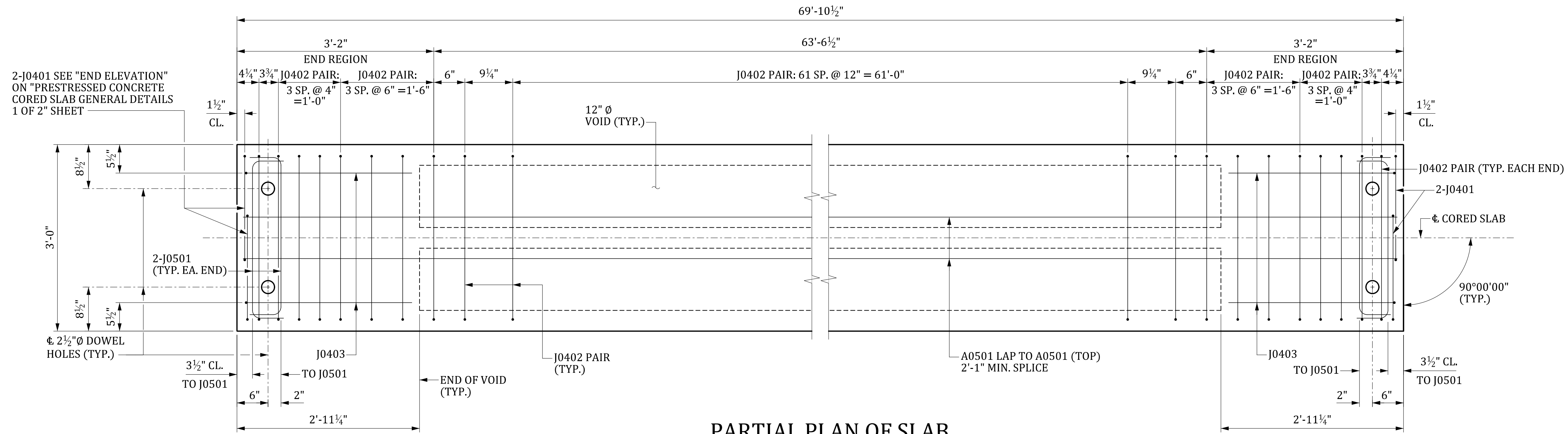
SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
PRESTRESSED CONCRETE CORED SLAB
70' SPAN DETAILS
 (-15° SKEW)

COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

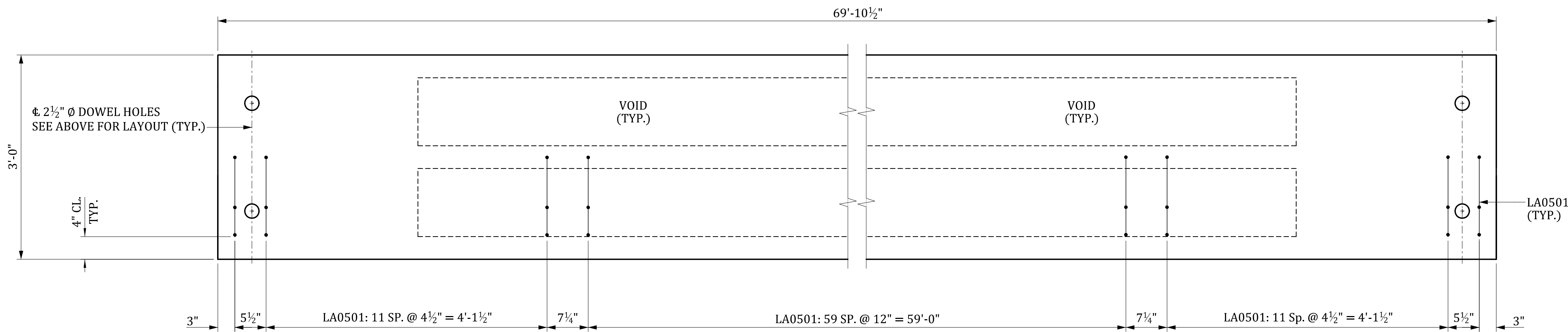
REVIEWED	QUAN.	CTM	GCM	05-23

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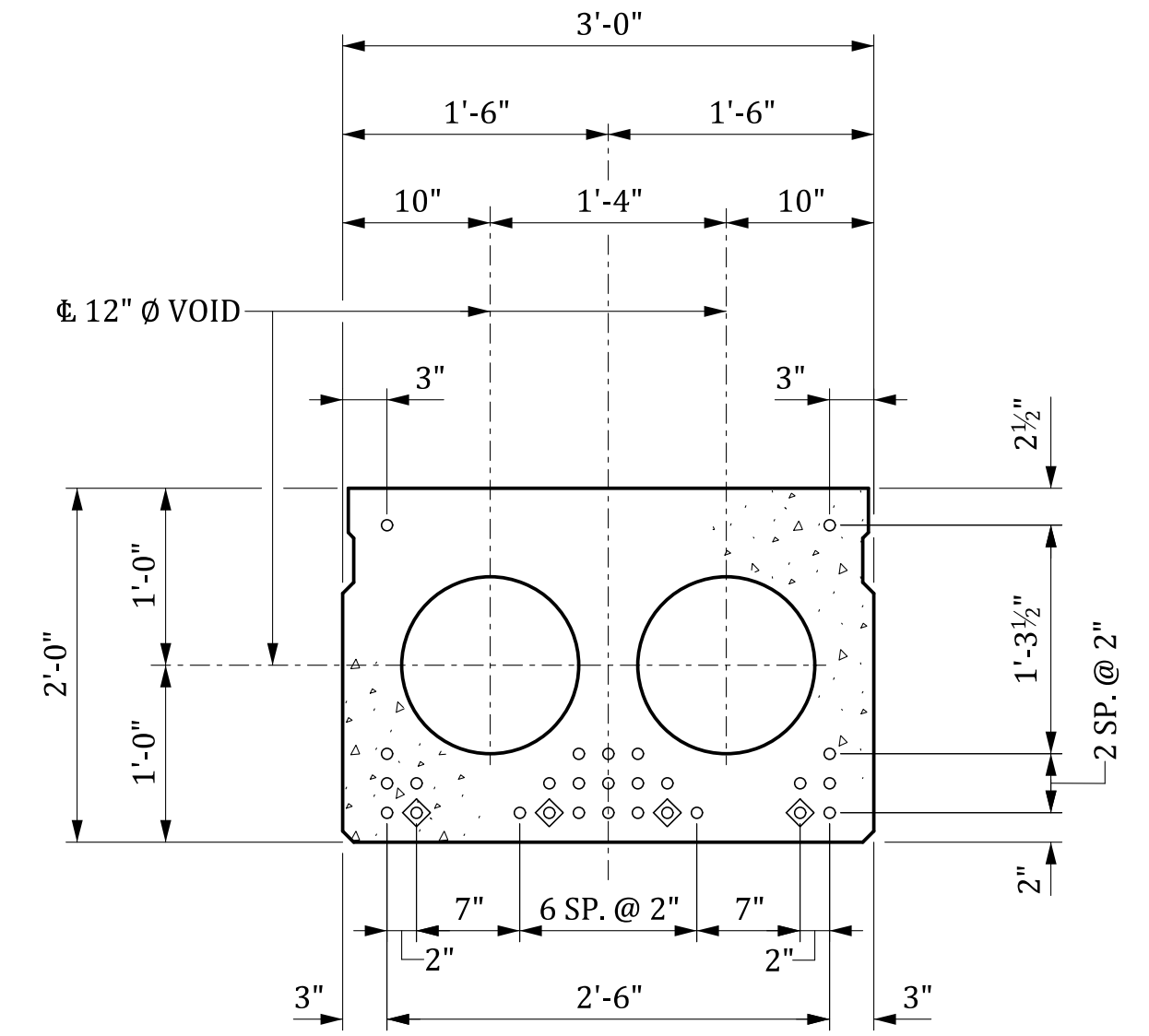
PARTIAL PLAN OF SLAB

STRANDS NOT SHOWN.
INTERIOR SLAB SHOWN, EXTERIOR SLAB SIMILAR EXCEPT BARRIER REINFORCEMENT. SEE BELOW.



PARTIAL PLAN OF EXTERIOR SLAB

SHOWING PLACEMENT OF LA0501 BARS FOR MASH BARRIER PARAPET.
LA0501 BARS MAY BE SHIFTED SLIGHTLY TO AVOID STIRRUPS.



STRAND LAYOUT

INTERIOR SLAB SHOWN - EXTERIOR SLAB
SIMILAR EXCEPT SHEAR KEY LOCATION.

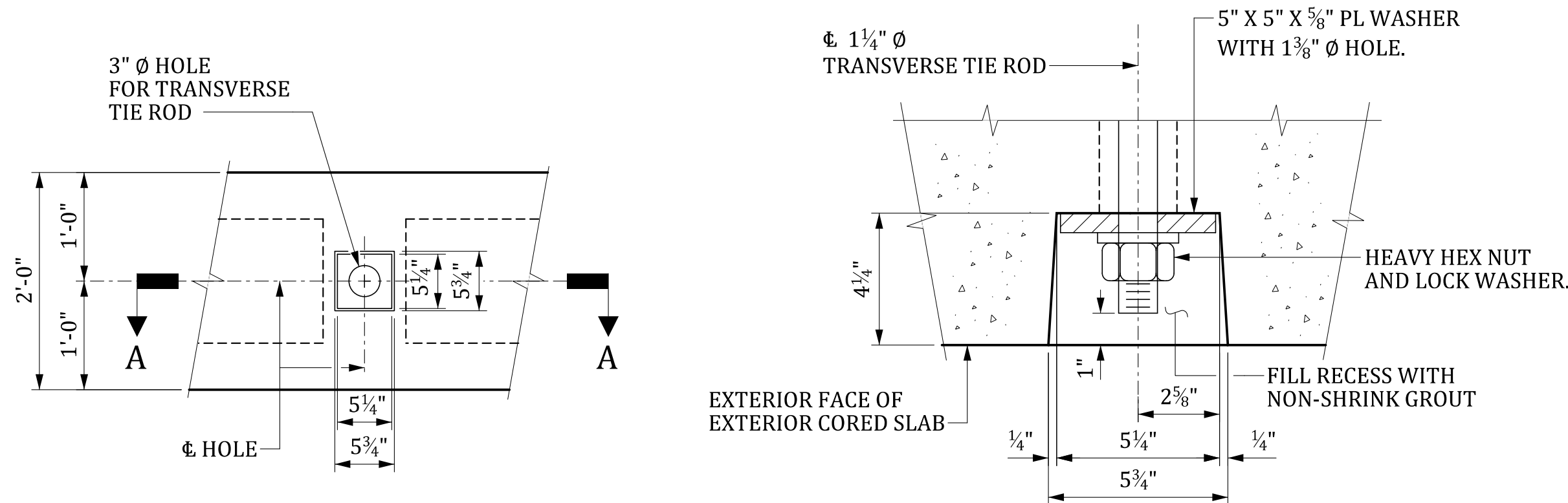
- FULLY BONDED STRANDS
- ◊ DEBONDED STRANDS FOR 6'-0" FROM END OF SLAB

NOTE:
BOND SHALL BE BROKEN ON STRANDS AS SHOWN FOR THE SPECIFIED LENGTH FROM EACH END OF THE CORED SLAB. SEE NOTES ON "PRESTRESSED CONCRETE CORED SLAB TYPICAL SUPERSTRUCTURE SECTION" SHEET.

DESIGN DATA

STRANDS:
0.6" Ø LOW RELAXATION GRADE 270
AREA=0.217 SQ. IN.
TENSIONING LOAD = 43.9 KIPS

CONCRETE:
f'_c = 8.0 KSI
f'_{ci} = 6.0 KSI



ELEVATION

TIE ROD ASSEMBLY NOT SHOWN.

SECTION A-A

EXTERIOR FACE OF EXTERIOR CORED SLAB

TIE ROD POCKET DETAIL

EXTERIOR FACE OF EXTERIOR SLAB.

NOTE:
FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN-PLAN" SHEET.

STIRRUPS AND VERTICAL BARRIER REINFORCEMENT
MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

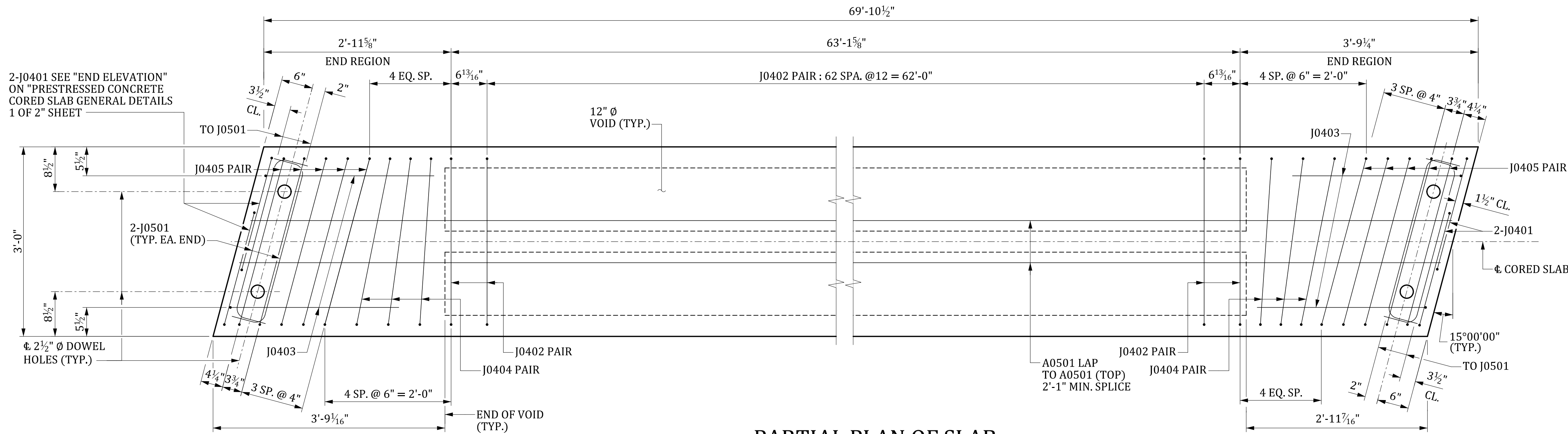
PRESTRESSED CONCRETE CORED SLAB
70' SPAN DETAILS
(0° SKEW)

COUNTY: ###

ROUTE: ###

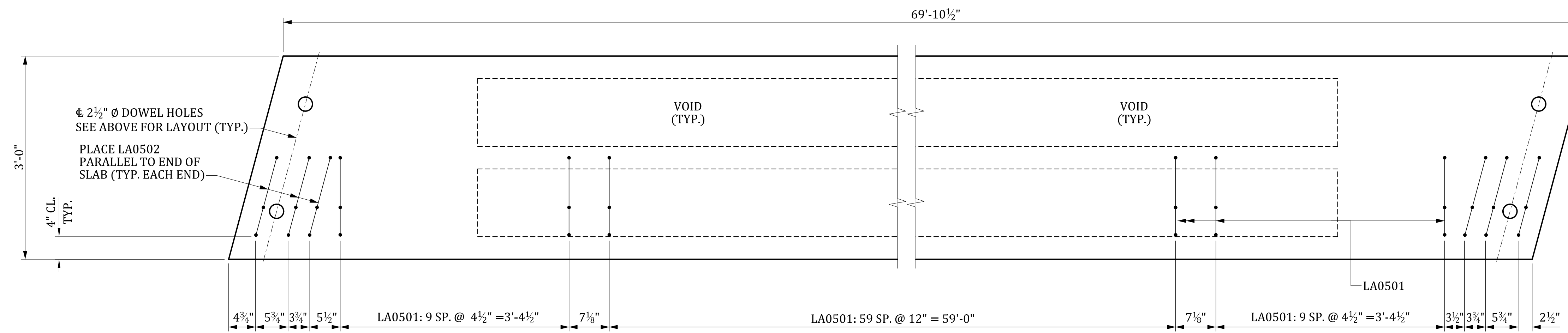
MBreland 6/25/2024 5:22:39 PM 704_ACS_070.dgn			
REV.	BY	CHK.	DATE

REVIEWED	QUAN.	CTM	GCM	05-23
DR.	SIA	MWB	BWB	10-23
DES.	BY	CHK.	DATE	



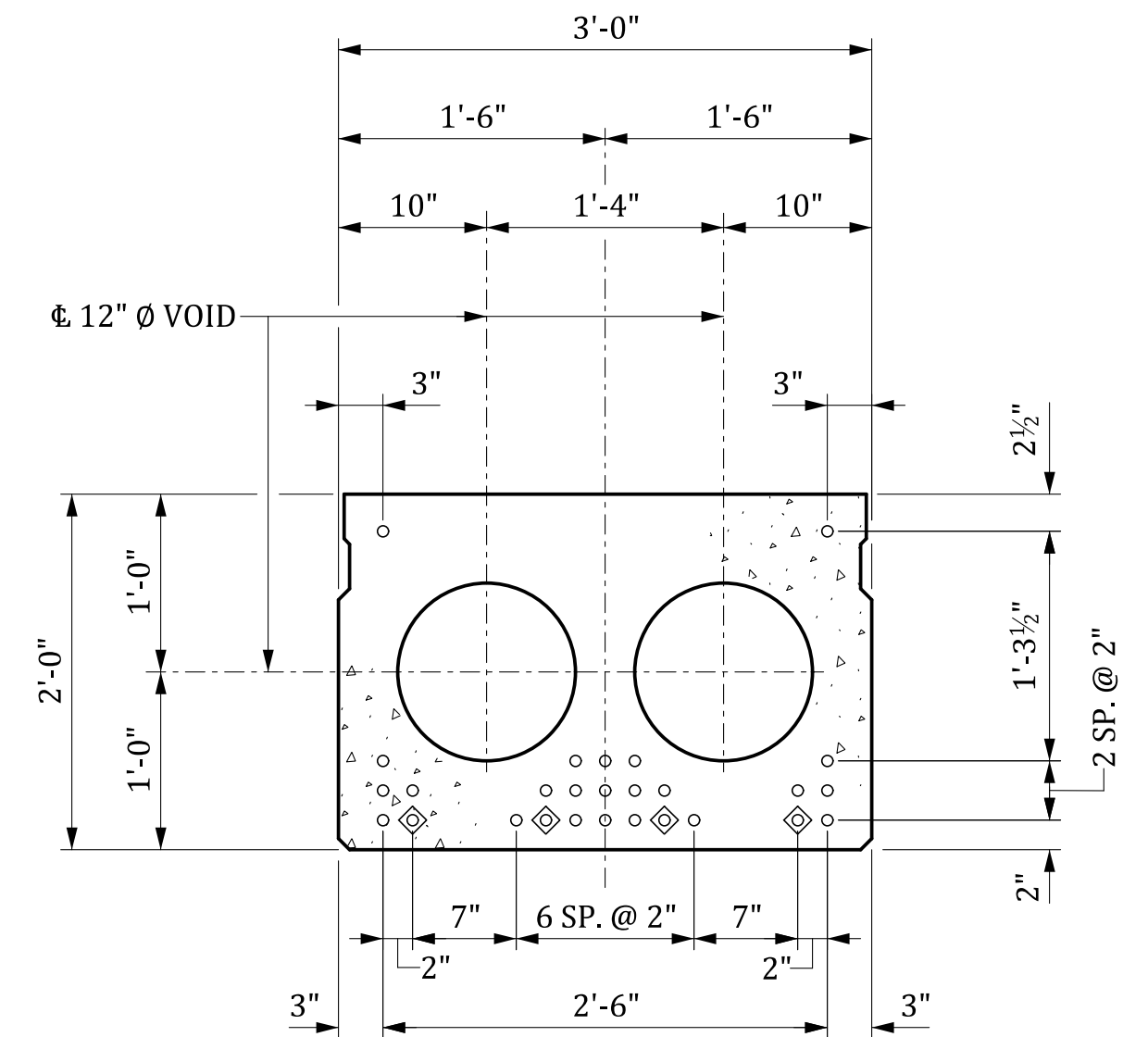
PARTIAL PLAN OF SLAB

STRANDS NOT SHOWN.
INTERIOR SLAB SHOWN, EXTERIOR SLAB SIMILAR EXCEPT BARRIER REINFORCEMENT. SEE BELOW.



PARTIAL PLAN OF EXTERIOR SLAB

SHOWING PLACEMENT OF LA0501 AND LA0502 BARS FOR MASH BARRIER PARAPET.
"LA05" BARS MAY BE SHIFTED SLIGHTLY TO AVOID STIRRUPS.

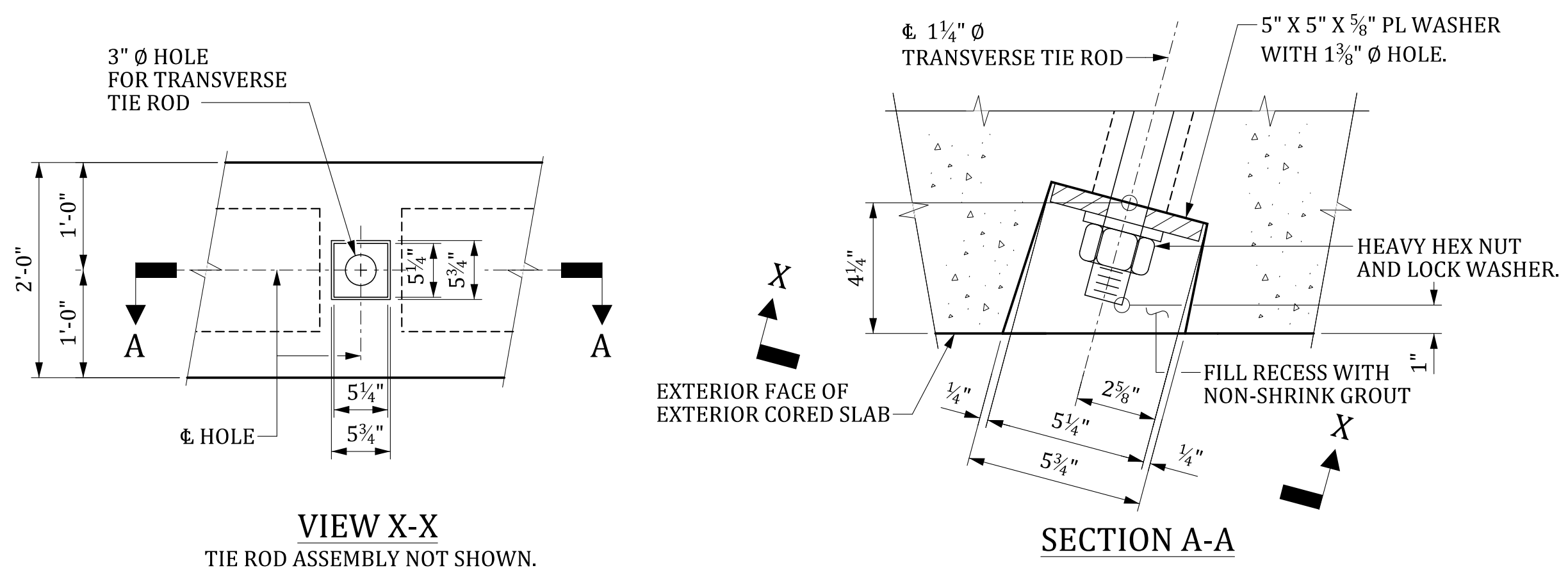


STRAND LAYOUT

27 - 0.6" Ø L.R. STRANDS
INTERIOR SLAB SHOWN - EXTERIOR SLAB SIMILAR EXCEPT SHEAR KEY LOCATION.
○ FULLY BONDED STRANDS
◊ DEBONDED STRANDS FOR 6'-0" FROM END OF SLAB

NOTE:
BOND SHALL BE BROKEN ON STRANDS AS SHOWN FOR THE SPECIFIED LENGTH FROM EACH END OF THE CORED SLAB. SEE NOTES ON "PRESTRESSED CONCRETE CORED SLAB TYPICAL SUPERSTRUCTURE SECTION" SHEET.

DESIGN DATA	
STRANDS:	0.6" Ø LOW RELAXATION GRADE 270
	AREA=0.217 SQ. IN.
	TENSIONING LOAD = 43.9 KIPS
CONCRETE:	
	f'c = 8.0 KSI
	f'ci = 6.0 KSI



TIE ROD POCKET DETAIL

EXTERIOR FACE OF EXTERIOR SLAB.

NOTE:
FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 70' SPAN-PLAN" SHEET.

STIRRUPS AND VERTICAL BARRIER REINFORCEMENT MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 70' SPAN DETAILS (+15° SKEW)	
COUNTY: ####	ROUTE: ####

MBreeland 6/25/2024 5:22:35 PM 704_ACS_070.dgn					
REV.					DESCRIPTION OF REVISION
REV.					
REV.					
REV.					
BY	CHK.	DATE			
REVIEWED	CTM	GCM	05-23		
QUAN.	CTM	MWB	05-23		
DR.	SJA	BWB	10-23		
DES.	BY	CHK.	DATE		