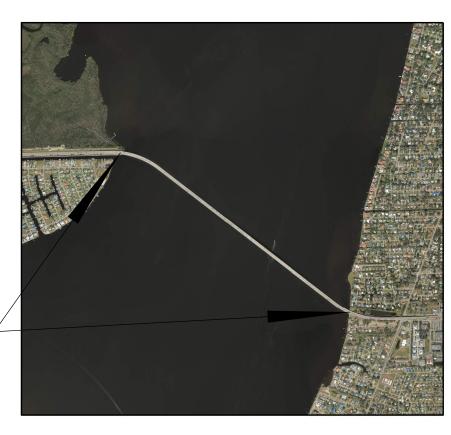
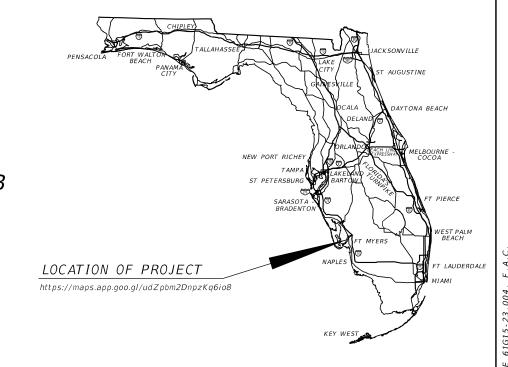
LEE COUNTY DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE (No. 124096) BRIDGE REPAIRS

LEE COUNTY PROJECT NO. CN200224JJB

STRUCTURE PLANS







GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES

LOCATION OF PROJECT BRIDGE NO. 124096

GOVERNING DESIGN STANDARDS:

INDEX OF STRUCTURE PLANS

KEY SHEET SIGNATURE SHEET GENERAL NOTES

BX1-1 THRU BX1-156 EXISTING STRUCTURES PLANS

SHEET DESCRIPTION

TRAFFIC CONTROL PLAN NOTES

REPAIR TYPE 1 DETAILS

REPAIR TYPE 2 DETAILS · REPAIR TYPE 3 DETAILS

REPAIR TYPE 4 DETAILS

REPAIR TYPE 5 DETAILS

REPAIR TYPE 6 DETAILS

EXISTING LIGHTING PLANS

STANDARD PLANS FOR BRIDGE CONSTRUCTION

BAR BENDING DETAILS (STEEL)

CABLE INSTALLATION DETAILS

MULTILANE ROADWAY, LANE CLOSURES

MULTILANE ROADWAY, TEMPORARY DIVERSIONS

PLAN AND ELEVATION WITH OVERVIEW OF REPAIRS

TRAFFIC CONTROL PLAN / CONSTRUCTION PHASING

SHEET NO.

8 - 9

10 - 12

13

14

15

LX-1 THRU LX-8

102-600

102-613

102-620

415-001

676-010

Florida Department of Transportation, FY 2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

REVISIONS:

Structure Sheets 1, 2, 3, 4, 10, 11, and 12 (Revised 10-25-2024) (NIC)

Revised Sheet Nos. 5, 8, 13, and 14 \ (Revised 2-7-25)

Revised Sheet Nos. 3 and 14 (Revised 2-12-25)

	KEY	SHEET	REVISIONS
D	ATE	DE	SCRIPTION
10-2	25-24		d Sheet No. 10, and 12. (NIC)

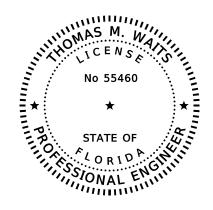
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L SUBMITTAL	LEE COUNTY	FISCAL	SHEET
	PROJECT NO.	YEAR	NO.
TOBER 2024	CN200224JJB	24	1

STRUCTURE PLANS **ENGINEER OF RECORD:**

THOMAS M. WAITS, P.E. P.E. LICENSE NUMBER 55460 HIGHSPANS ENGINEERING, INC. 2121 MCGREGOR BLVD. SUITE 200 FORT MYERS, FL 33901 REGISTRY NO. 27559

LEE COUNTY PROJECT MANAGER: AVELINO CANCEL, P.E.



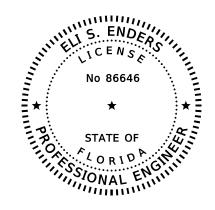
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEE	T NO.	SHEET DESCRIPTION
	1	KEY SHEET
2	2	SIGNATURE SHEET
_3	3	GENERAL NOTES
4	4	PLAN AND ELEVATION WITH OVERVIEW OF REPAIRS
-	7	REPAIR TYPE 1 DETAILS
8 -	- 9	REPAIR TYPE 2 DETAILS
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$/1$ $\{-1$	2	REPAIR TYPE 3 DETAILS (3 OF 3)
1	3	REPAIR TYPE 4 DETAILS
1	4	REPAIR TYPE 5 DETAILS
1	5	REPAIR TYPE 6 DETAILS



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SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
5	TRAFFIC CONTROL PLAN NOTES
6	TRAFFIC CONTROL PLAN / CONSTRUCTION PHASING
$\sim\sim\sim$	· · · · · · · · · · · · · · · · · · ·
\bigwedge $\frac{10}{}$	REPAIR TYPE 3 DETAILS (1 OF 3)
$\frac{1}{1}$ $\left(\frac{1}{1} \right)$	REPAIR TYPE 3 DETAILS (2 OF 3)

		REVIS	SIONS				DRAWN BY: JAH 4/24		LEE COU	NTY		REF. DWG. NO.
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		1/1				HIGHSPANS ENGINEERING, INC.	DESIGNED BY:	ROAD NO.	COUNTY	COUNTY PROJECT NO.	PROJECT NAME:	
						2121 MCGREGOR BOULEVARD	JAH 4/24					SHEET NO.
						SUITE 200	CHECKED BY:		LEE	CN200224JJB	MIDPOINT BRIDGE REPAIRS	2
						FORT MYERS, FL 33901	TMW 4/24					2

- 2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS. 9TH EDITION AND ALL SUBSEQUENT INTERIMS.
- 3. FDOT DESIGN MANUAL DATED JANUARY, 2024 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.
- B. GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS

 1. FLORIDA DEPARTMENT OF TRANSPORTATION, FY2024-25 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND FY2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.
- C. VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

D. ENVIRONMENT

BRIDGE NUMBER	SUPERSTRUCTURE	SUBSTRUCTURE
124096	SLIGHTLY	EXTREMELY

* BASED ON 1993 VECP DESIGN PLANS

E. DESIGN METHODOLOGY

LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE, AND FATIGUE LIMIT STATES.

LIVE LOADS: HL-93 WITH DYNAMIC LOAD ALLOWANCE

2. DEAD LOADS:

REINFORCED CONCRETE: 150 PCF

G. STRUCTURE MATERIALS

1. REINFORCING STEEL: GRADE 60 CARBON STEEL PER SPECIFICATIONS SECTION 931

2. CONCRETE: CONCRETE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 346 AND 347, AS APPLICABLE.

CONCRETE CLASS	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION OF CONCRETE IN STRUCTURE
II	3,400	LOAD CENTER FOUNDATION, CONCRETE TRAFFIC RAILING REPAIR
IV	5,500	C.I.P. SUBSTRUCTURE
NS	2,500	WALL FOUNDATION REPAIR

H. REPAIR MATERIALS

FOR REPAIR PRODUCTS DESIGNATED AS APL, SEE THE FDOT APPROVED PRODUCTS LIST FOR ALL PRODUCTS THAT HAVE BEEN APPROVED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION

1 FPOXY COMPOUND

EPOXY TYPE	FDOT STANDARD SPECIFICATIONS SECTION	LOCATION OF EPOXY REPAIR IN STRUCTURE		
E	411, 926	CRACK INJECTION		
AB	926	BONDING CONCRETE		
F-1	926	SPALL REPAIR		

2. ASPHALT PAVEMENT: FDOT STANDARD SPECIFICATIONS SECTION 330, AND 337,

3. PENETRANT SEALER: FDOT STANDARD SPECIFICATIONS SECTION 413.

4. APPROACH REPAIR CONCRETE: FDOT STANDARD SPECIFICATIONS SECTION 930. MUST BE FOR HORIZONTAL SURFACES AND RAPID HARDENING PER 930-4.2.1 AND LISTED ON THE APL.

I. CONCRETE FINISH COATING

CONCRETE REPAIRS ARE TO BE TEXTURED AND PAINTED TO MATCH EXISTING CONDITIONS. REPAIR CONCRETE IS TO BE FINISHED FLUSH WITH EXISTING CONCRETE, AND ANY EDGES OR CORNERS SHALL RECEIVE A 3/4" CHAMFER.

ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

- 1. THE CONTRACTOR SHALL CALL IN LOCATES AND TAKE CARE TO PREVENT DAMAGING BURIED UTILITIES DURING BEDDING STONE INSTALLATION.
- 2. ALL UTILITIES INDICATED ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION. THE CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO THE START OF WORK.

GENERAL NOTES (CONT.)

L. TRAFFIC CONTROL PLANS SEE TRAFFIC CONTROL PLAN SHEETS

M. PHASING OF WORK

1. REPAIR ITEMS 3 AND 6 REQUIRE PHASING TO MAINTAIN TRAFFIC ON THE BRIDGE. SEE TRAFFIC CONTROL PLAN FOR REQUIRED PHASING.

N. DEMOLITION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSAL OF ALL CONSTRUCTION DEBRIS ASSOCIATED WITH ALL REPAIR ITEMS IN ACCORDANCE WITH LEE COUNTY REQUIREMENTS.

O. CONTROL OF DEMOLITION DEBRIS

SEVERAL WORK ITEMS REQUIRE CLEANING WHICH GENERATE DEBRIS WHICH NEEDS TO BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. ABSOLUTELY NO DEBRIS (SOLID OR LIQUID) SHALL BE ALLOWED TO FALL OUTSIDE OF CONTAINMENT. ISOLATE THE WORK AREAS WITH CONTAINMENT DEVICES, CANVASSES, TARPAULINS OR SCREENS DURING ALL CONCRETE REMOVAL AND SURFACE PREPARATION OPERATIONS.

P. SODDING

SOD QUANTITY INCLUDES ONLY THOSE AREAS INTENDED TO BE DISTURBED BY PROPOSED IMPROVEMENTS. OTHER DISTURBED AREAS NOT INTENDED TO BE DISTURBED, INCLUDING BUT NOT LIMITED TO STAGING AREAS, STOCKPILE AREAS, ETC., SHALL BE SODDED AT NO ADDITIONAL COST.

2. SOD TO BE SET TO NO MORE THAN 1/2" BELOW FINISHED GRADE AND SHALL MATCH EXISTING SOD TYPE. ALL PROPOSED GRADES ARE FINISHED AND SODDED GRADES.

Q. CONSTRUCTION

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH LEE COUNTY DOT AS NECESSARY DURING CONSTRUCTION.

2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR CONSTRUCTION. WORK SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS ARE OBTAINED.

3. THE CONTRACTOR MUST COORDINATE WITH THE LEE COUNTY TRAFFIC DIVISION BEFORE STARTING ANY WORK ON THE LOAD CENTER.

R. PAY ITEM NOTES

1. THE COST OF MAINTENANCE OF TRAFFIC SHALL INCLUDE ALL ITEMS REQUIRED TO SAFELY MAINTAIN TRAFFIC THROUGHOUT THE WORK ZONE, INCLUDING ALL TEMPORARY PAVEMENT MARKINGS, TEMPORARY TRAFFIC SIGNALS, SHIELDING OF DROP OFF HAZARDS, AND CHANNELIZING DEVICES.

2. THE COST OF DEBRIS CONTAINMENT SYSTEM SHALL INCLUDE ALL ITEMS REQUIRED TO ISOLATE THE WORK AREAS WITH CONTAINMENT DEVICES TO PREVENT ALL FALLING AND AIRBORNE DEBRIS FROM FALLING OUTSIDE OF CONTAINMENT. INCLUDES SUBMITTING A CONTAINMENT SYSTEM PLAN AND DRAWINGS TO THE ENGINEER FOR

3. THE COST OF EXPANSION JOINT REPLACEMENT INCLUDES THE FOLLOWING: a. ANY WORK TO REPLACE ANY REJECTED JOINTS.

b. ANY REPAIRS TO THE GALVANIZING ON METALLIC JOINT COMPONENTS.

C. ANY ADDITIONAL WORK OR MATERIALS REQUIRED FOR NON-STANDARDIZED OR SPECIAL CONSTRUCTION OR INSTALLATION TECHNIQUES.

d. ALL COSTS ASSOCIATED WITH THE MANUFACTURER'S INSTALLATION TECHNICIAN.

e. ALL WORK RELATED TO PERFORMANCE OF THE WATERTIGHT INTEGRITY TEST AND ANY NECESSARY REPAIRS AND

4. THE LOAD CENTER FURNISH AND INSTALL PAY ITEM SHALL INCLUDE LABOR AND MATERIALS REQUIRED TO INSTALL REPLACEMENT LOAD CENTER. ASSOCIATED SELECT BEDDING MATERIAL, CONCRETE, REINFORCING, AND HARDWARE ARE INCIDENTAL TO THIS PAY ITEM.

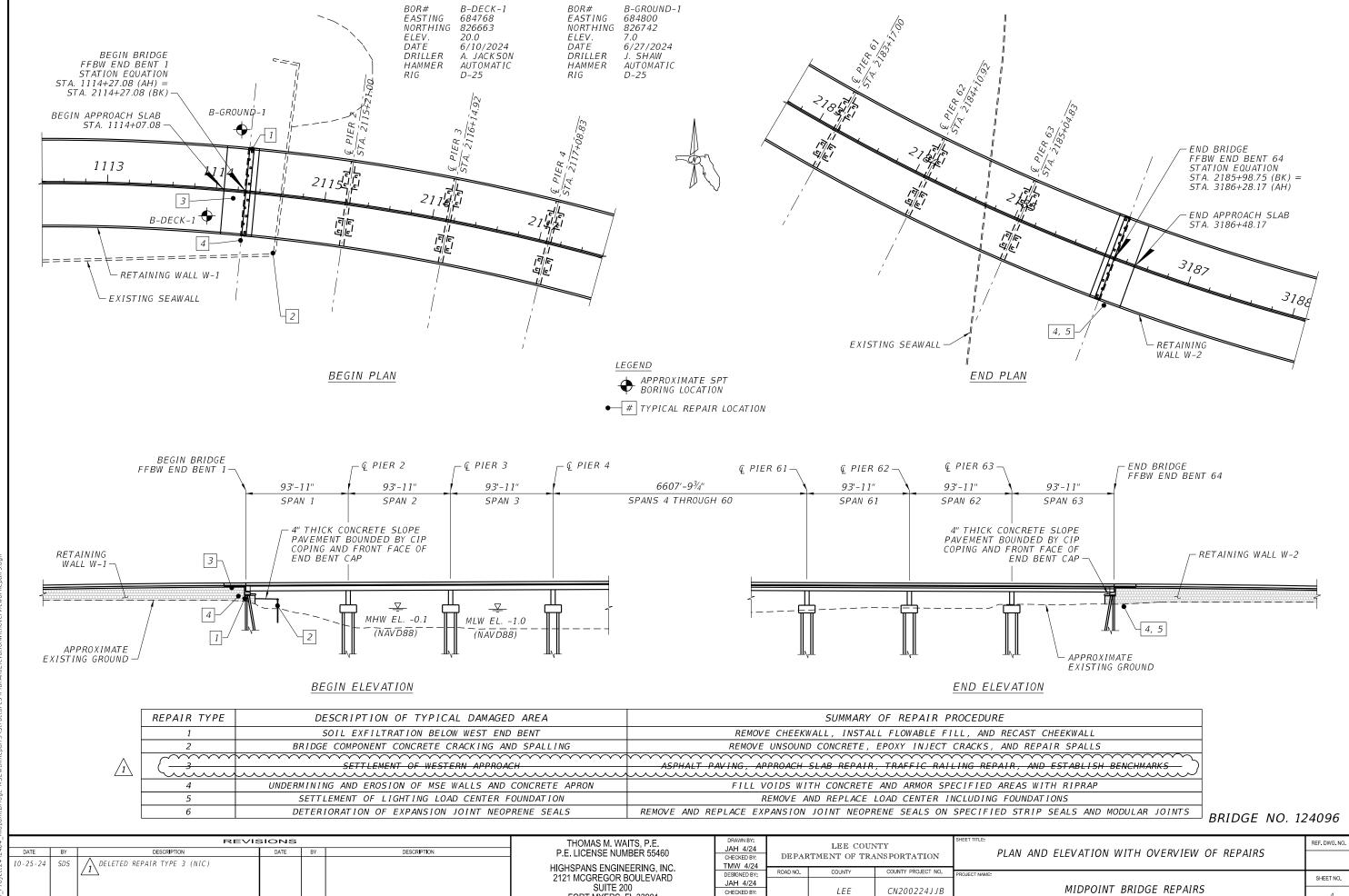
1. CONTRACTOR SHALL HAVE SURVEY BENCHMARKS ESTABLISHED AT THE MSE WALLS BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA. BENCHMARKS SHALL BE ESTABLISHED ALONG THE WALL AT THE EXISTING GROUND SURFACE AND AT THE TOP OF THE MSE WALL COPING/BARRIER. BENCHMARK INFORMATION AND ELEVATIONS SHALL BE SUBMITTED TO LEE COUNTY FOR RECORDS

2. IT IS RECOMMENDED THAT LEE COUNTY MONITOR FOR SETTLEMENT AT THE SURVEY BENCHMARKS AFTER EVERY HURRICANE AT THE SITE OF CATEGORY 3 OR HIGHER.

3. SURVEY FROM 6/4/2024 IS INCLUDED IN THE BID PACKAGE FOR INFORMATION PURPOSES ONLY. ELEVATIONS MA HAVE BEEN ALTERED SINCE SURVEY. THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND SHALL WORK THE VERIFIED ELEVATIONS WITH MILLING AND SURFACING PLAN AND APPROACH SLAB REMOVAL PLAN SPECIFIED HEREIN FOR REPAIR TYPE 3.

ALL ITEMS CROSSED OUT IN THIS REVISED PLAN SET ARE NOT TO BE INCLUDED IN THIS CONTRACT AND SHALL BE COMPLETED AT A LATER DATE BY OTHERS. OUT OF CONTRACT NOTES AND REPAIR ITEMS SHALL HEREIN BE NOTED AS "NIC" WHICH SHALL STAND FOR "NOT IN THE CONTRACT".

2													
04_		REVIS	SIONS			THOMAS M. WAITS, P.E.	DRAWN BY: JAH 4/24		LEE COU	NTY	SHEET TITLE:		REF. DWG. NO.
174/54	DATE BY 10-25-24 SDS	DESCRIPTION DELETED NOTE S, ADDED NOTE T (NIC)	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 55460 HIGHSPANS ENGINEERING, INC.	CHECKED BY: TMW 4/24		TMENT OF TR	ANSPORTATION		GENERAL NOTES	
rojeci		^1				2121 MCGREGOR BOULEVARD	DESIGNED BY: JAH 4/24	ROAD NO.	COUNTY	COUNTY PROJECT NO.	PROJECT NAME:		SHEET NO.
H:_P	2-12-25 SDS	ADDED NOTE				SUITE 200 FORT MYERS, FL 33901	CHECKED BY: TMW 4/24		LEE	CN200224JJB		MIDPOINT BRIDGE REPAIRS	3

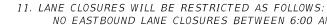


FORT MYERS, FL 33901

4

TRAFFIC CONTROL PLAN NOTES

- 1. THIS TCP IS PROVIDED AS CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PROFESSIONAL TRAFFIC ENGINEER LICENSED IN THE STATE OF FLORIDA AND FDOT ADVANCED TEMPORARY TRAFFIC CONTROL CERTIFIED TO DEVELOP A TCP SPECIFIC TO THE CONTRACTOR'S WORK SCHEDULE. SUBMIT THE SIGNED AND SEALED TCP TO THE EOR AND LEE COUNTY PRIOR TO COMMENCEMENT OF WORK.
- 2. REPAIR ITEMS 3 AND 6 REQUIRE PHASING TO MAINTAIN TRAFFIC ON THE BRIDGE. SEE TRAFFIC CONTROL PLAN FOR REQUIRED PHASING.
- WORK ZONE REGULATORY SPEED LIMIT DURING CONSTRUCTION IS 45 MPH.
- 4. ALL LANE CLOSURES MUST BE REPORTED A MINIMUM OF 14 DAYS IN ADVANCE TO LEE COUNTY DEPARTMENT OF TRANSPORTATION, NEARBY LOCAL EMERGENCY AGENCIES, THE LOCAL OPERATIONS CENTER, AND THE LOCAL INFORMATION OFFICER, IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 102.
- 5. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH FDOT INDEX 102-600 AND MOT INDEX SERIES.
- 6. UTILIZE TEMPORARY REMOVABLE TAPE MARKINGS FOR ALL TEMPORARY PAVEMENT MARKINGS INSTALLED ON BRIDGE SURFACE. COST INCLUDED AS PART OF MOT, LS PAY ITEM.
- 7. UTILIZE DEVICE SPACING PER FDOT INDICES 102-600 FOR ALL CHANNELIZING DEVICES.
- 8. RELOCATE AND/OR COVER ANY SIGNS DURING CONSTRUCTION THAT CONFLICT WITH THE ACTIVE TRAFFIC CONTROL PLAN.
- 9. THE CONTRACTOR SHALL MAINTAIN THE EXISTING BRIDGE DECK TO AVOID DROP-OFFS DURING JOINT REPLACEMENT. ALL DROP-OFFS SHALL BE ELIMINATED PRIOR TO THE CONTRACTOR OPENING LANES TO TRAFFIC. IF THE JOINT WILL REMAIN OPEN OUTSIDE OF WORKING HOURS THIS SHALL BE DONE UTILIZING A PINNED MIN. 1/2" THK. STEEL PLATE AND SHALL NOT EXTEND 1" OR MORE ABOVE THE TRAVEL LANE HAVING AN UNEVEN SURFACE GREATER THAN 1/4" AND TRANSVERSE JOINTS SHALL NOT EXCEED 1" DIFFERENCE IN ELEVATION. STEEL PLATE SHALL NOT BE UTILIZED IN ACTIVE LANES. ANY TEMPORARY APRONS CONSTRUCTED WILL BE INCLUDED IN THE COST FOR MOT, LS.
- 10. NO DAYTIME LANE CLOSURES ALLOWED BETWEEN NOVEMBER 23 AND MARCH 31, UNLESS OTHERWISE APPROVED BY LEE COUNTY DOT.



NO EASTBOUND LANE CLOSURES BETWEEN 6:00 AM AND 10:00 AM NO WESTBOUND LANE CLOSURES BETWEEN 3:00 PM AND 7:00 PM

TRAFFIC CONTROL PHASING NOTES

- 1. MAINTAIN EXISTING TRAFFIC PATTERN ALONG VETERANS MEMORIAL PARKWAY. INSTALL ADVANCED WARNING SIGNS PER FDOT INDICES 102-600.
- 2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER PHASE II TCP. UTILIZE FDOT INDICES 102-613, AND 102-620.

PHASE II

- 1. SHIFT TRAFFIC TO NEW TRAFFIC PATTERN PER PHASE II TCP.
- 2. PERFORM FIRST PHASE OF REPAIRS PER PHASE II TCP AND STRUCTURES PLANS. INSTALL NECESSARY TRAFFIC CONTROL DEVICES.
- 3. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER PHASE III TCP. UTILIZE FDOT INDICES 102-613, AND 102-620.

PHASE III

- 1. SHIFT TRAFFIC TO NEW TRAFFIC PATTERN PER PHASE III TCP.
- 2. PERFORM SECOND PHASE OF REPAIRS PER PHASE III TCP AND STRUCTURES PLANS. INSTALL NECESSARY TRAFFIC CONTROL DEVICES. UTILIZE FDOT INDICES 102-613, AND

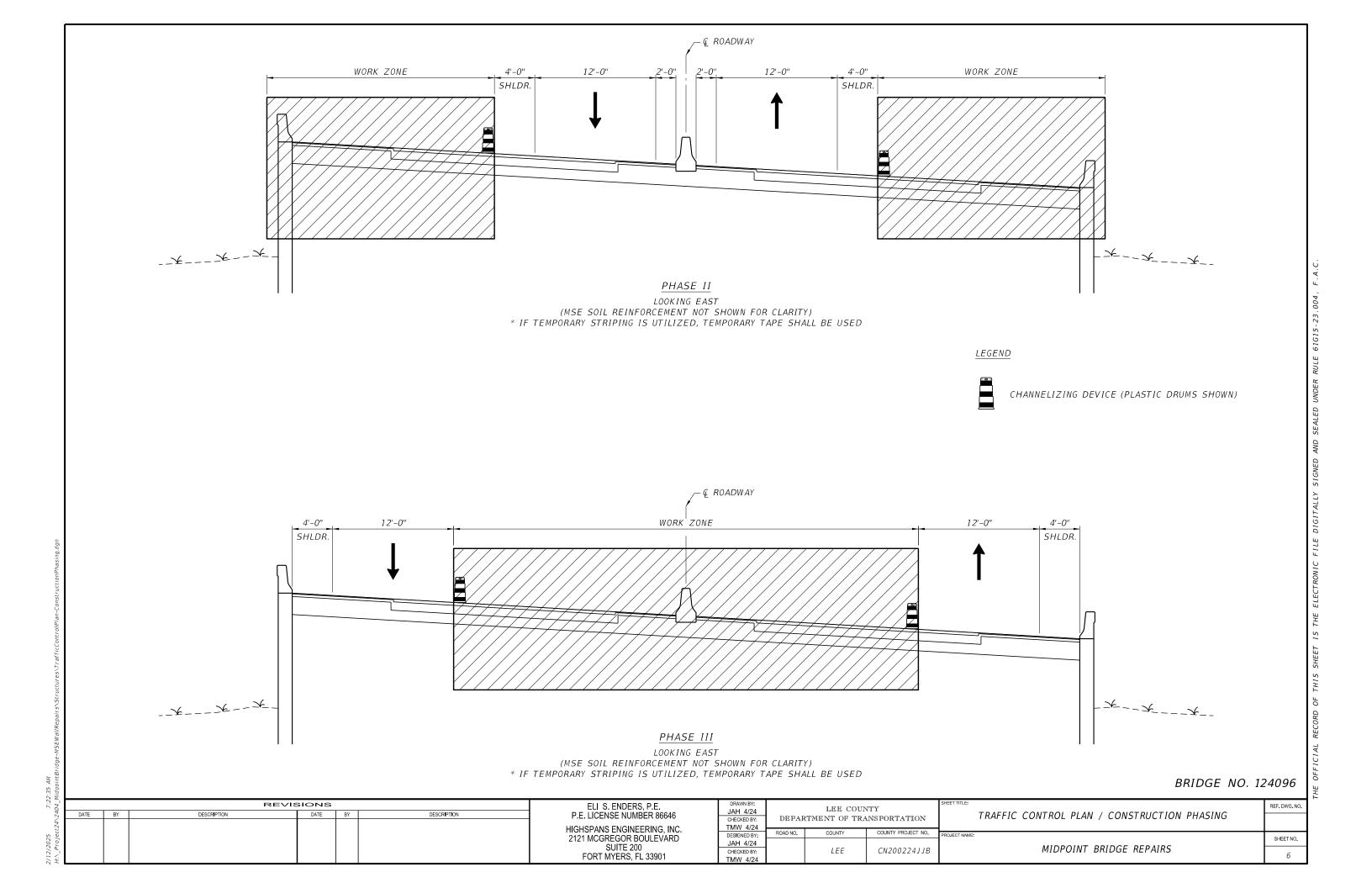
PHASE IV

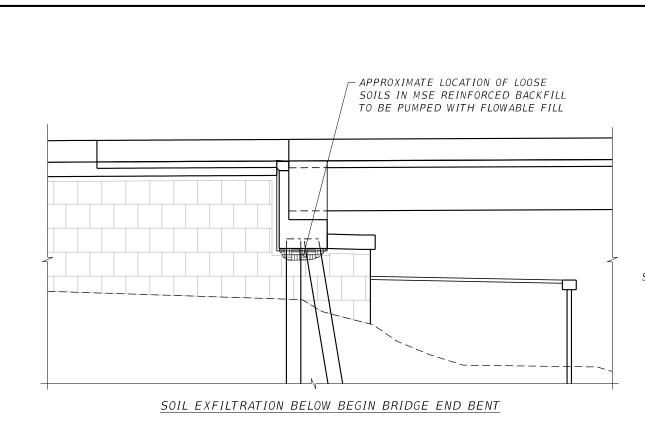
- 1. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO FINAL
- 2. CONSTRUCT FINAL FRICTION COURSE LAYER AND INSTALL FINAL PAVEMENT MARKINGS AND SIGNS PER PHASE III TCP. UTILIZE FDOT INDICES 102-613, AND 102-620.

PCMS DETAIL

14 DAYS PRIOR TO LANE CLOSURE AND DURING LANE CLOSURES								
DISPLAY 1	DISPLAY 2							
LANE CLOSURES AHEAD	(BEGIN DATE) TO (END DATE)							

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	2-7-25	SDS	ADDED NOTE				HIGHSPANS ENGINEERING, INC.	TMW 4/24					
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: L				1			FORT WITERS, FL 33901	TMW 4/24					





SETTLEMENT INDUCED GAP BELOW
AND NEXT TO CHEEKWALL CAST
A 6" CHEEKWALL EXTENSION.

DAMAGED MSE PANEL EDGES.
CAST A 6" CHEEKWALL EXTENSION.

CHEEKWALL REPAIR DETAIL (TYP.)
(SUPERSTRUCTURE NOT SHOWN FOR CLARITY)

EXIST. BACKWALL EXIST. CHEEKWALL TYPE AB EPOXY. SEE NOTE 3.-TYPE D-2 FILTER FABRIC — REMOVE BOTTOM CHEEKWALL TO INSTALL A LAYER OF PETROTAC 4591 PAVING STRIP EXPOSE EXISTING REINFORCEMENT WITHIN THE END BENT. RECAST MEMBRANE BETWEEN EXISTING MSE WALL PANEL EXTENSION 6" BELOW THE TOP OF AND NEW CHEEKWALL EXTENSION. SEE NOTE 5. EXPOSED MSE PANELS (TYP.) -7-#4 BARS #4 BARS @ 6" O.C. MSE PANEL SETTLED BELOW EXISTING CHEEKWALL COPING -SECTION A-A

CHEEKWALL EXTENSION

REPAIR TYPE 1 QUANTITIES BEGIN BRIDGE VOID REPAIR								
LOCATION	UNIT	TOTAL QUANTITY OF REPAIR						
NORTH CHEEKWALL EXTENSION	CONCRETE CLASS IV	CF	4					
NORTH CHEEKWALL EXTENSION	REINF. STEEL	LB	19					
SOUTH CHEEKWALL EXTENSION	CONCRETE CLASS IV	CF	4					
300TH CHEEKWALL EXTENSION	REINF. STEEL	LB	19					
END BENT VOID	FLOWABLE FILL	CY	7.5					

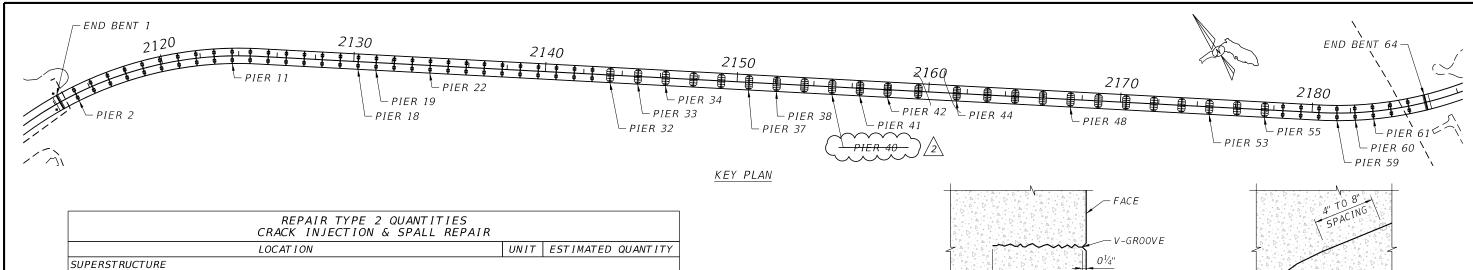
VOID REPAIR NOTES:

- 1. ALL LOCATIONS AND QUANTILES OF FLOWABLE FILL ARE APPROXIMATE. THE CONTRACTOR SHALL RECORD THE QUANTITY OF FLOWABLE FILL PUMPED OR INJECTED INTO THE VOID BENEATH THE BEGIN BRIDGE END BENT.
- 2. PLACE FLOWABLE FILL ACCORDING TO FDOT SPECIFICATIONS SECTION 121 AND MANUFACTURER'S RECOMMENDATIONS.
- 3. THE CONTRACTOR SHALL ENSURE THAT THE MATERIAL IS BEING PUMPED IN SUCH A MANNER THAT THE FLOWABLE FILL MATERIAL IS EVENLY DISTRIBUTED UNDERNEATH THE END BENT.

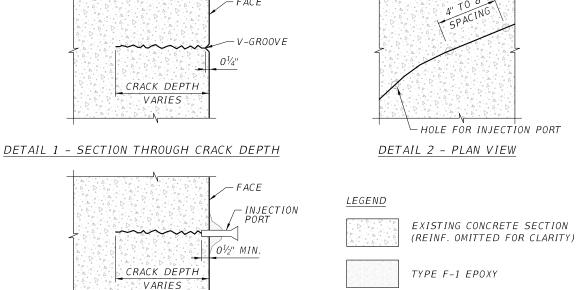
CHEEKWALL EXTENSION NOTES:

- 1. REMOVE THE BOTTOM OF CHEEKWALL TO EXPOSE EXISTING REINFORCEMENT WITHIN THE END BEND FOR TIE-IN TO NEW CHEEKWALL EXTENSION REINFORCEMENT.
- 2. CLEAN EXISTING REINFORCEMENT AND REMOVE ALL SURFACE RUST BY POWER TOOL CLEANING, IF APPLICABLE.
- 3. RECAST CHEEKWALL EXTENSION 6" BELOW THE TOP OF EXPOSED MSE PANELS. THE CHEEKWALL THICKNESS, WIDTH, AND SURFACE FINISH SHALL MATCH EXISTING. APPLY TYPE AB EPOXY BONDING AGENT WITH CORROSION INHIBITORS LISTED ON THE FDOT'S APL TO EXPOSED CONCRETE SURFACES FOR BONDING TO FRESH CONCRETE. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR SURFACE PREPARATION, USE, AND INSTALLATION.
- 4. CONTRACTOR SHALL PLACE A LAYER OF APPROVED TYPE D-2 FILTER FABRIC MATERIAL BEHIND THE CHEEKWALL EXTENDING BELOW THE TOP MSE PANELS.
- 5. THE CONTRACTOR SHALL PLACE A LAYER OF PETROTAC 4591 PAVING STRIP MEMBRANE OR APPROVED EQUAL BETWEEN THE EXISTING MSE WALL PANEL AND NEW CHEEKWALL EXTENSION PRIOR TO CASTING. SUBMIT PRODUCT TO EOR FOR APPROVAL.

04_			REVIS	SIONS			THOMAS M. WAITS, P.E.	DRAWN BY:		LEE COU	VTY		REF. DWG. NO.
24	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 55460	JAH 4/24 CHECKED BY:	DEDAE		ANSPORTATION	REPAIR TYPE 1 DETAILS	
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DETAIL 3 - SECTION THROUGH CRACK DEPTH

CRACK REPAIR DETAILS

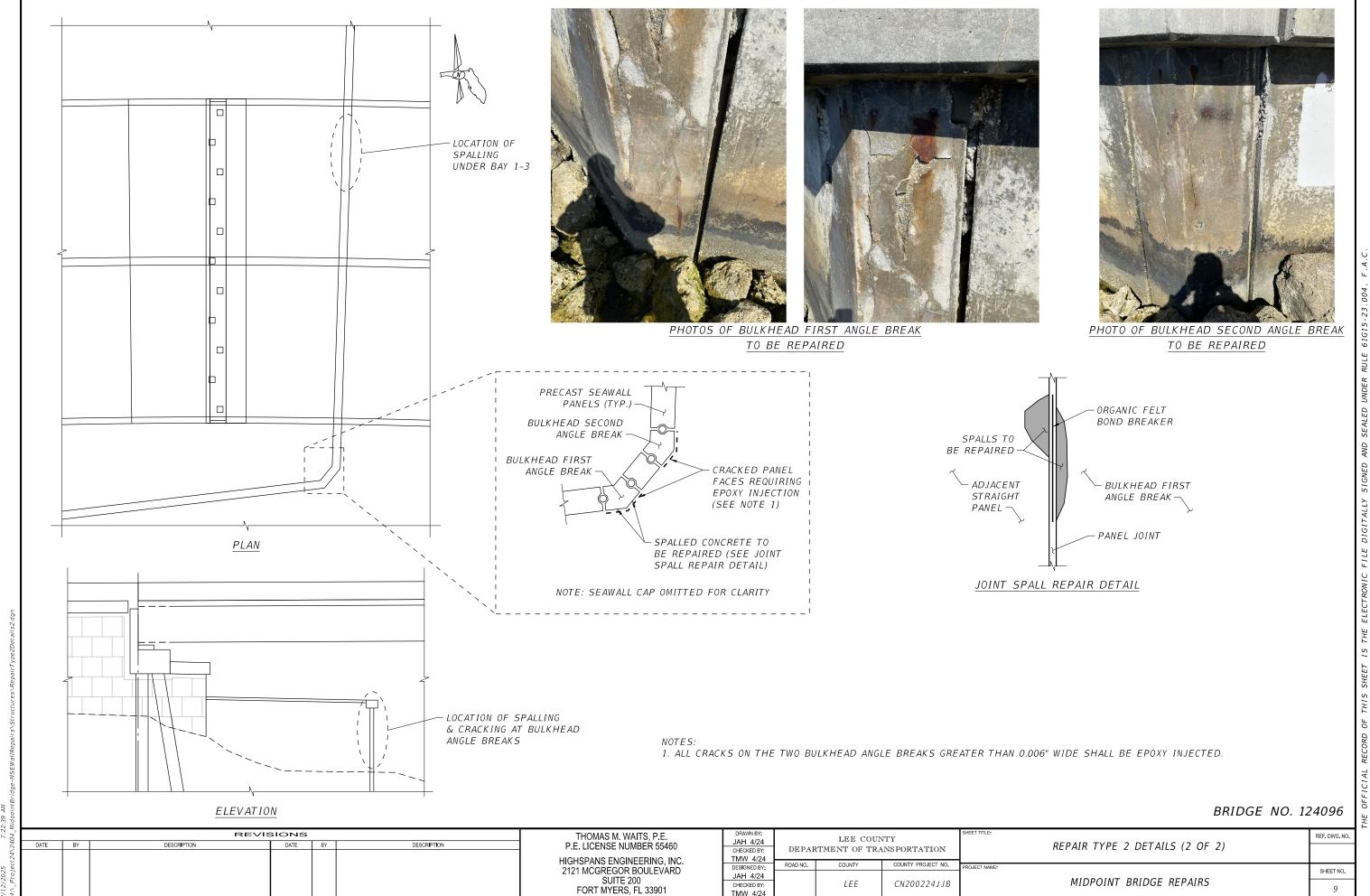
CRACK INJECTION NOTES.

- 1. PRIOR TO CRACK INJECTION, THE CONTRACTOR SHALL REVIEW THE LATEST BRIDGE INSPECTION REPORTS TO VERIFY THE LOCATIONS OF CRACKS AND SPALLS TO BE REPAIRED.
- 2. "V" GROOVE THE CONCRETE SURFACE ALONG FULL LENGTH OF THE CRACKS APPROXIMATELY 1/4" DEPTH AS SHOWN IN DETAIL 1.
- 3. CLEAN CONCRETE SURFACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO PLACING EPOXY COMPOUND.
- 4. DRILL HOLES FOR INJECTION PORTS TO A DEPTH SHOWN IN DETAIL 3.
- SURFACE OF CRACK WITH EPOXY COMPOUND PER FDOT STANDARD SPECIFICATIONS, SECTION 411. EXTEND ABOVE CONCRETE SURFACE A MINIMUM OF 1/16" AND EXTEND A MINIMUM OF 1" TO EITHER SIDE OF CRACK. ALLOW A MINIMUM OF SIX HOURS CURING BEFORE INITIATING INJECTION PROCESS.
- 6. INSTALL INJECTION PORTS AND INJECT THE EPOXY COMPOUND PER FDOT STANDARD SPECIFICATIONS, SECTION 411. ALLOW MINIMUM OF SIX HOURS CURING TIME.
- 7. CUT THE PORTS AFTER CURING.

SPALL REPAIR NOTES:

- 1. PREPARE REPAIR AREA BY REMOVING ANY LOOSE CONCRETE, DELAMINATED PATCHES, AND MARINE GROWTH FROM THE CONCRETE SURFACE TO EXPOSE FULL EXTENT OF CRACKS OR SPALLS.
- 2. THE DEPTH OF CONCRETE REMOVAL SHALL BE LIMITED TO 4". IF LOOSE CONCRETE IS ENCOUNTERED BEYOND THIS LIMIT, THE DEMOLITION SHALL BE STOPPED AND THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING FURTHER.
- 3. IF CONCRETE REMOVAL EXPOSES A LAP SPLICE IN THE REINFORCEMENT, THE DEMOLITION SHALL BE STOPPED AND THE ENGINEER NOTIFIED BEFORE PROCEEDING FURTHER.
- 4. CLEAN ALL CORROSION FROM ANY EXPOSED REINFORCEMENT USING POWER TOOLS.
- 5. AFTER CONCRETE REMOVAL, EVALUATE ANY EXPOSED REINFORCEMENT AND NOTIFY ENGINEER IF STEEL SECTION LOSS DUE TO CORROSION IN ANY ONE BAR EXCEEDS 50% OF THE ORIGINAL BAR DIAMETER.
- 6. APPLY TYPE AB EPOXY BONDING AGENT WITH CORROSION INHIBITORS LISTED ON THE FDOT'S APL TO EXISTING CONCRETE FACES FOR BONDING TO FRESH CONCRETE. FOLLOW MANUFACTURE'S SPECIFICATIONS FOR SURFACE PREPARATION, USE, AND INSTALLATION.
- 7. USE A TROWEL OR OTHER SLENDER TOOL TO APPLY TYPE F-1 EPOXY MORTAR LISTED ON THE FDOT'S APL SUITABLE FOR WET APPLICATION, AND FINISH FLUSH WITH THE SURROUNDING SURFACES. SUBMIT PRODUCT TO ENGINEER FOR APPROVAL.
- 8. CONTRACTOR SHALL ENSURE THAT A COLLECTION SYSTEM IS IN PLACE TO PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE WATER DURING THE DEMOLITION AND RE-CASTING PHASES OF WORK.
- 9. FOR CRACKS WITH NO LOOSE OR SPALLED CONCRETE, FOLLOW CRACK INJECTION REPAIR PROCEDURES

'		REV	SIONS			THOMAS M. WAITS, P.E.	DRAWN BY:		LEE COUN	JTY		REF. DWG. NO.
DA	E BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 55460	JAH 4/24 CHECKED BY:	DEPARTMENT OF TRANSPORTATION			REPAIR TYPE 2 DETAILS (1 OF 2)	
2-7-	?5 SDS	DELETED REPAIR ITEMS				HIGHSPANS ENGINEERING, INC.	TMW 4/24	D131 711	CIMBINI OF TICE	MADI ORTHITON		
		/2				2121 MCGREGOR BOULEVARD	DESIGNED BY:	ROAD NO.	COUNTY	COUNTY PROJECT NO.	PROJECT NAME:	SHEET NO.
' 						CHITE 200	JAH 4/24				AMERICAN PRINCE PERMING	SHEET NO.
1						SUITE 200	CHECKED BY:		LEE	CN200224JJB	MIDPOINT BRIDGE REPAIRS	g
						FORT MYERS, FL 33901	TMW 4/24					O

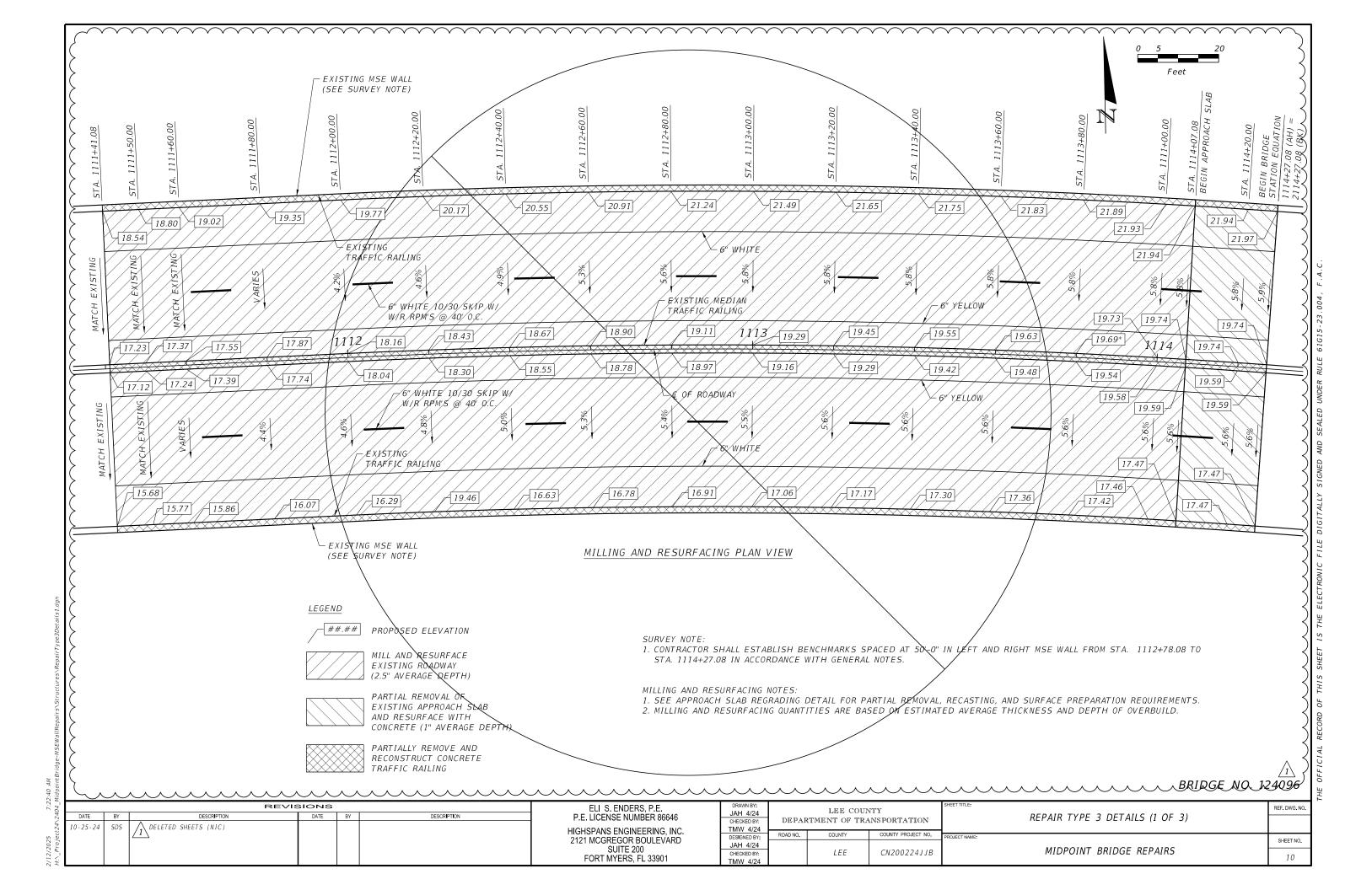


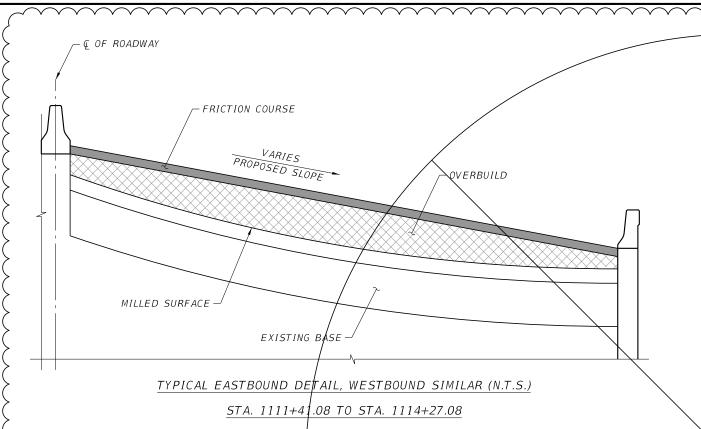
CN200224JJB

LEE

MIDPOINT BRIDGE REPAIRS

9





VERBUILD TYPE SP-12.5 STRUCTURAL THICKNESS VARIES, FRICTION COURSE FC-9.5 (1 ½) (PG 76-22)

MILLINGMILL EXISTING ASPHALT PAVEMENT FOR DEPTH $(2\frac{1}{2}")$

REPAIR TYPE 3 QUANTITIES MILL AND RESURFACE WEST APPROACH PROCEDURE UNIT QUANT ITY REMOVAL OF EXISTING CONCRETE (FOR APPROACH SLAB) SY 168 MILLING EXISTING ASPHALT PAVEMENT, \2 1/2" AVG DEPTH SY 2815 * SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC E, SP-12.5 TN 613.0 ** ASPHALT CONCRETE FRICTION COURSE, TRAFFIC &, FC-9.5, PG 76-22 TN224.3 *** CONCRETE CLASS II (BRIDGE DECK), APPROACH SLABS 3.3 CONCRETE TRAFFIC RAILING- BRIDGE, REPAIR EXISTING (PARTIAL REMOVAL AND RECONSTRUCTION) LF 858 RAISED PAVEMENT MARKER, TYPE B EΑ 16 THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6" 0.108 THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP GM 0.108 THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 0.108 ESTABLISH SURVEY BENCHMARK 16

* INCLUDES 400 SY CONTINGENCY THAT SHALL BE USED ONLY WHEN DIRECTED BY LEE COUNTY

** INCLUDES 50 TN CONTINGENCY THAT SHALL BE USED ONLY WHEN DIRECTED BY LEE COUNTY

*** INCLUDES 25 TN CONTINGENCY THAT SHALL BE USED ONLY WHEN DIRECTED BY LEE COUNTY

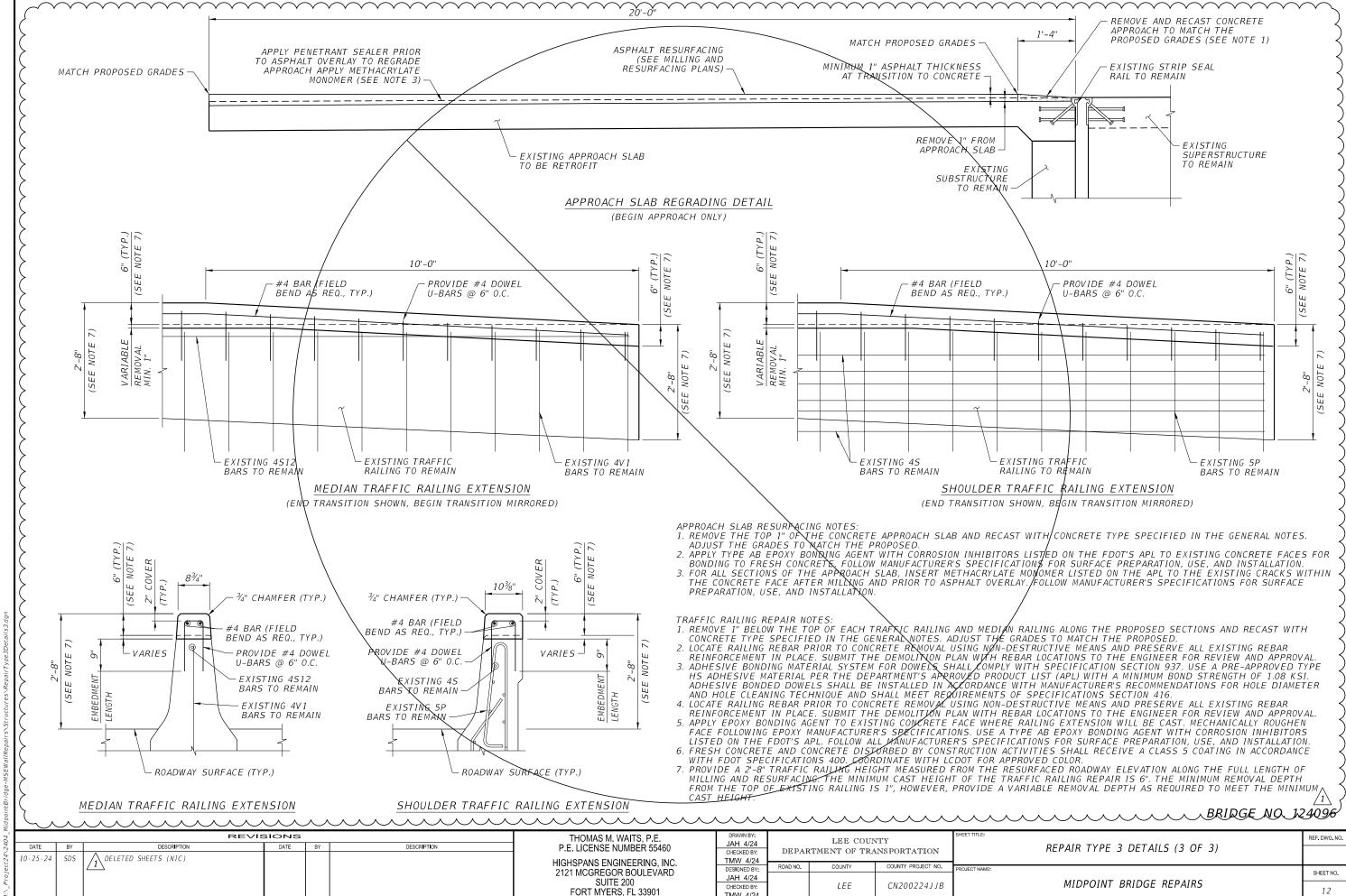
	ΜI	DPOINT WESTBO	OUND (LEFT RO)	ADWAY) OVERBU	ILD DETAILS	
LOCA	TION	EXIST.	PROPOSED	MAX. DEPTH OF	WIDTH OF	AREA OF OVERBUILD
STATION	LANE	SLOPE (%)	SLOPE (%)	OVERBUILD (IN.)	OVERBUILD (FT.)	(SQ. FT.)
1111+41.08	WESTBOUND	(+) 3.5	EXIST.	1.0	38	3.2
1111+50.00	WESTBOUND	(+) 3.8	EXIST.	1.0	38	3.2
1111+60.00	WESTBOUND	(+) 3.9	EXLST.	1.0	38	3.2
1111+80.00	WESTBOUND	(+) 3.9	VARIES (+3.9)	2.1	38	4.4
1112+00.00	WESTBOUND	(+) 4.5	(+) 4.2	2.8	38	7.4
1112+20.00	WESTBOUND	(+) 4.9	(+) 4.6	3.1	38	8.7
1112+40.00	WESTBOUND	(+) 5.5	(+) 4.9	3.9	38	9.5
1112+60.00	WESTBOUND	(+) 5.8	(+) 5.3	5.0	38	12.2
1112+80.00	WESTBOUND	(+) 5.5	(+) 5.6	5.5	38	15.4
1113+00.00	WESTBOUND	(+) 5.8	(+) 5.8	5.9	38	16.5
1113+20.00	WESTBOUND	(+) 5.8	(+) 5.8	6.3	38	18.5
1113+40.00	WESTBOUND	(+) 5.9	(+) 5.8	5.8	38	16.2
1113+60.00	WESTBOUND	(+) 5.6	(+) 5.8	5.0	38	14.6
1113+80.00	WESTBOUND	(+) 5.7	(+) 5.8	\4.7	38	13.6
1114+00.00	WESTBOUND	(+) 5.4	(+) 5.8	4.6	38	12.7
1114+07.08	WESTBOUND	(+) 6.0	(+) 5.8	4.3	38	12.3
1114+20.00	WESTBOUND	(+) 5.9	(+) 5.8	2\7	38	7.5
1114+27.08	WESTBOUND	(+) 5.9	(+) 5.9	1.\0	38	3.3

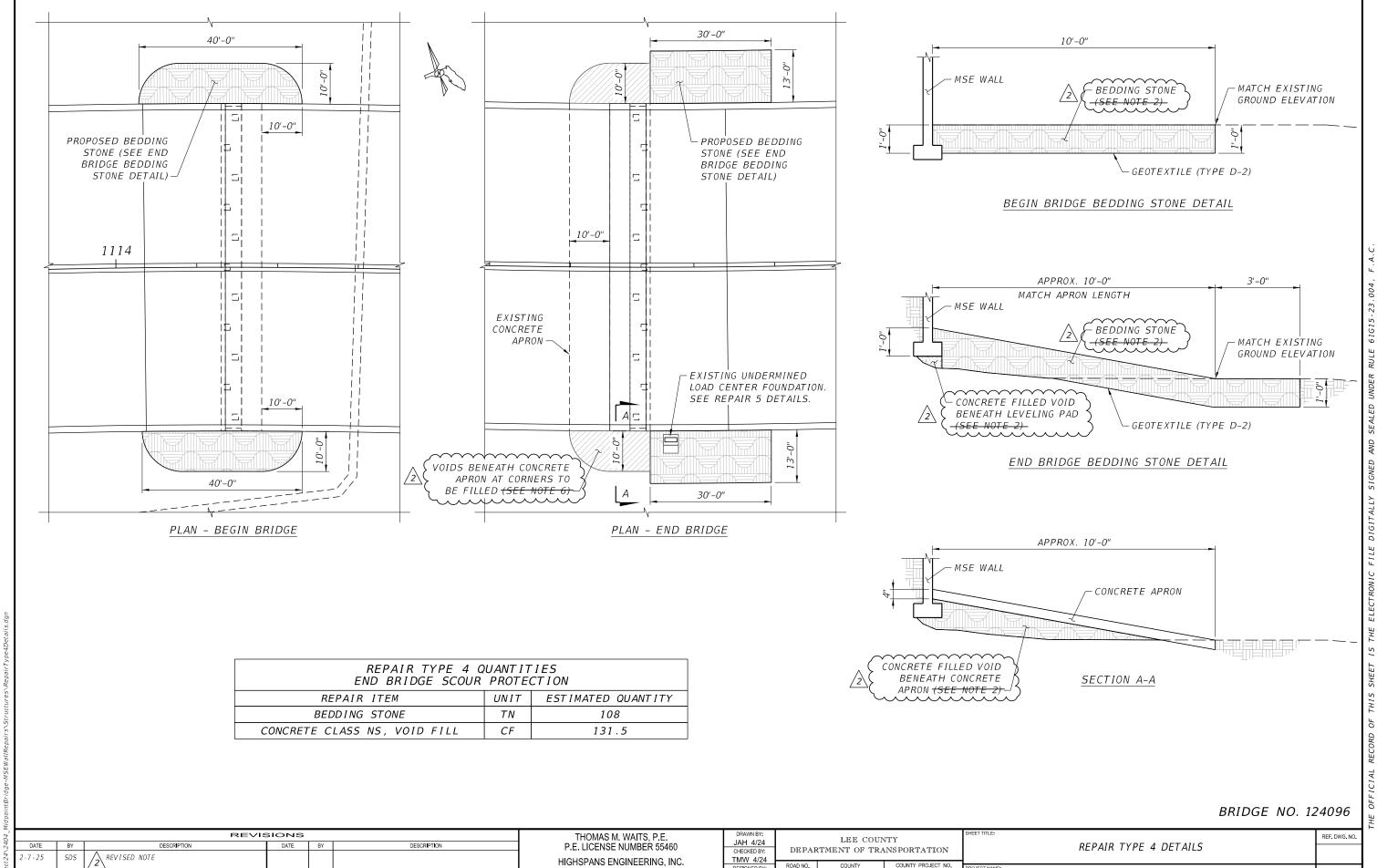
TABLE NOTE: WORK OVERBUILD DETAILS TABLES WITH APPROACH SLAB PARTIAL REMOVAL AND REGRADING PLANS.

	MIL	DPOINT EASTBO	UND (RIGHT RO	ADWAY) OVERBU	IILD DETAILS	
	TION	EXIST.	PROPOSED	MAX. DEPTH OF	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD
STATION	LANE	SLOPE (%)	SLOPE (%)	OVERBUILD (IN.)	OVERBUILD (FI.)	, ,
1111+41.08	EASTROUND	(-) 3.8	EXIST.	1/. 0	38	3.2
1111+50.00	EASTBOUND	(-) 3.9	EXIST.	1.0	38	3.2
1111+60.00	EASTBOUND	(-) 4.0	VARIES (-4.4)	/1 . 0	38	3.1
1111+80.00	EASTBOUND	(-) 4.1	(-) 4.6	1.8	38	2.3
1112+00.00	EASTBOUND	(-) 4.4	(-) 4.8	2.9	38	6.6
1112+20.00	EASTBOUND	(-) 4.8	(-) 5.1	3.2	38	9.4
1112+40.00	EASTBOUND	5.3	(-) 5.3	4.0	38	10.6
1112+60.00	EASTBOUND	(-) 5.3	(-) 5.4	3.8	38	11.9
1112+80.00	EASTBOUND	(-) 5.2	(-) 5.5	5.2	38	14.3
1113+00.00	EASTBOUND	(-) 5.1	(-) 5.6	6.2	38	17.6
1113+20.00	EASTBOUND	(-) 5.4	(-) 5.6	6.9	38	20.4
1113+40.00	EASTBOUND	(-) 5.7	(-) 5.6	7.6	38	21.7
1113+60.00	EASTBOUND	(-) 5.9	(-) 5/.6	6.8	38	20.1
1113+80.00	EASTBOUND	(-) 5.9	5.6	5.5	38	16.1
1114+00.00	EASTBOUND	(-) 6.0	√ -) 5.6	4.8	38	13.9
1114+07.08	EASTBOUND	(-) 5.9	(-) 5.6	5.1	38	14.2
1114+20.00	EASTBOUND	(-) 5.7	(-) 5.6	2.9	38	8.3
1114+27.08	EASTBOUND	(-) 5.6	(-) 5.6	1.0	38	3.2

TABLE NOTE: WORK OVERBUILD DETAILS TABLES WITH APPROACH SLAB PARTIAL REMOVAL AND REGRADING PLANS.

		RE		ELI S. ENDERS, P.E.	DRAWN BY:		LEE COU	VTY	SHEET TITLE:	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 86646	JAH 4/24	CHECKED BY: DEPARTMENT OF TRANSPORTATION			REPAIR TYPE 3 DETAILS (2 OF 3)	
10-25	24 SDS	DELETED SHEETS (NIC)				HIGHSPANS ENGINEERING, INC.	TMW 4/24					
.						2121 MCGREGOR BOULEVARD	DESIGNED BY:	ROAD NO.	COUNTY	COUNTY PROJECT NO.	PROJECT NAME:	SHEET NO.
						SUITE 200	JAH 4/24				MADDOWE BRIDGE BERAIDS	GILLET NO.
1							CHECKED BY:		LEE	CN200224JJB	MIDPOINT BRIDGE REPAIRS	1 1
						FORT MYERS, FL 33901	TMW 4/24					11





2121 MCGREGOR BOULEVARD

SUITE 200

FORT MYERS, FL 33901

COUNTY PROJECT NO.

CN200224JJB

SHEET NO.

13

MIDPOINT BRIDGE REPAIRS

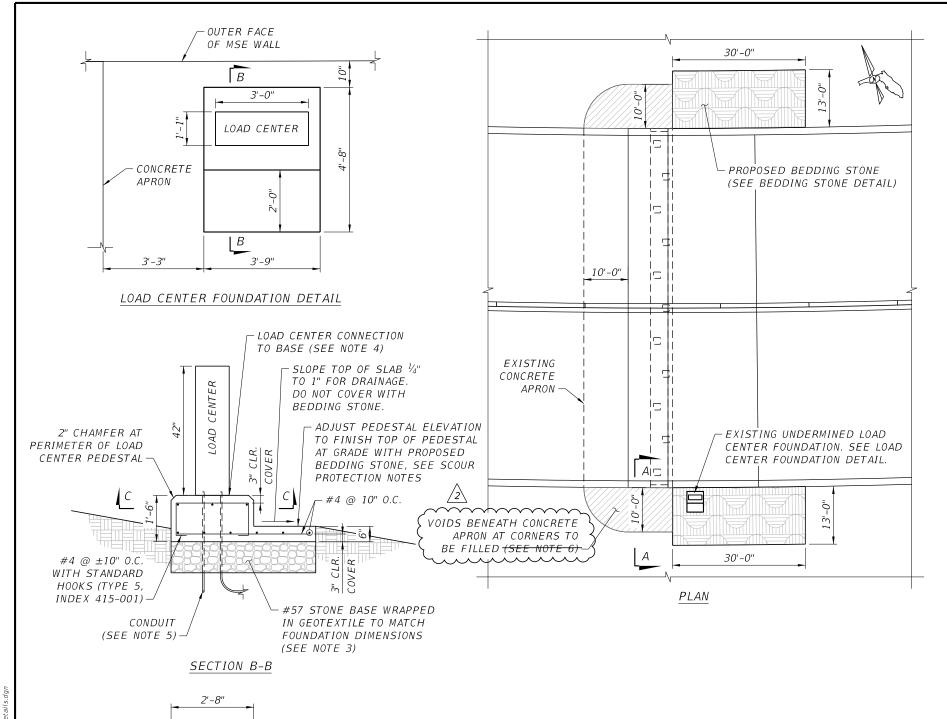
ROAD NO.

DESIGNED BY:

COUNTY

LEE





CABINET (1'-1"x3'-0")

SECTION C-C

#4 BARS

COVER (TYP.)

2" CLR.

#4 @ ±10" O.C.

WITH STANDARD

HOOKS (TYPE 5,

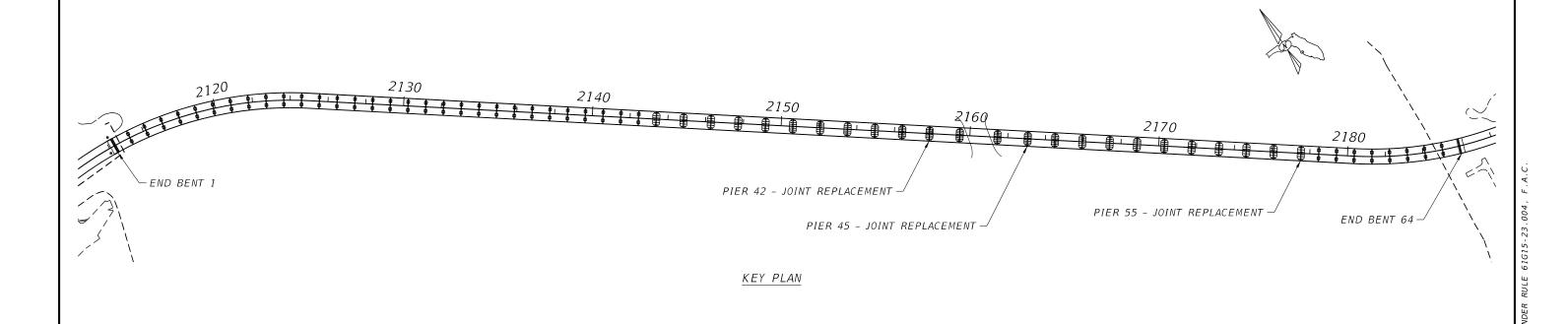
INDEX 415-001)

REPAIR TYPE 5 QUANTITIES LOAD CENTER FOUNDATION REPLACEMENT

LOCATION ESTIMATED QUANTITY UNITSELECT BEDDING MATERIAL CF18 CONCRETE CLASS II CF 19 REINFORCING STEEL LB 52

- 1. EXISTING LOAD CENTER FOUNDATION SHALL BE REMOVED, REPLACED, AND RESTORED TO SERVICE PRIOR TO PLACEMENT OF BEDDING STONE SLOPE PROTECTION.
- 2. THE EXISTING LOAD CENTER ELECTRICAL COMPONENTS SHALL BE DISCONNECTED BY A LICENSED ELECTRICIAN. PROTECT ALL EXISTING CONDUIT DURING REMOVAL OF LOAD CENTER FOUNDATION AND TEMPORARILY CAP ALL EXPOSED CONDUIT WITH A WEATHERPROOF FITTING. DOCUMENT QUANTITY AND SIZE OF EXISTING CONDUIT.
- 3. COMPACT THE SOIL BENEATH LOAD CENTER FOUNDATION EXCAVATION WITH SUITABLE EQUIPMENT TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY FM 1-T180, FOR A MINIMUM DEPTH OF 1'-0" BELOW THE BOTTOM OF EXCAVATION BEFORE BACKFILLING BEGINS. PROVIDE CLEAN COMPACTED #57 CRUSHED LIMESTONE IN A 1'-0" LIFT WRAPPED IN A LAYER OF APPROVED TYPE D-2 GEOTEXTILE TO MATCH THE DIMENSIONS OF THE LOAD CENTER FOUNDATION.
- 4. INSTALL LOAD CENTER IN ACCORDANCE WITH FDOT SPECIFICATION 715. USE ANCHOR BOLTS TO FASTEN LOAD CENTER TO THE CONCRETE BASE TO MATCH EXISTING. SEAL THE JOINT BETWEEN THE BOTTOM OF THE LOAD CENTER AND THE CONCRETE BASE (INSIDE AND OUTSIDE OF CABINET) WITH A CLEAR SILICONE RUBBER SEALANT.
- 5. THE PROPOSED LOAD CENTER FOUNDATION SHALL HAVE THE SAME NUMBER AND SIZE CONDUIT INSTALLED AS WELL AS TWO ADDITIONAL 2" PVC CONDUIT PER FDOT INDEX 676-010. CONDUITS REQUIRED TO RESTORE SERVICE SHALL BE CONNECTED TO EXISTING LINES BY A LICENSED ELECTRICIAN AND SHALL BE A MINIMUM OF 1'-6" BENEATH EXISTING GROUND SURFACE. UNUSED CONDUITS SHALL BE CAPPED WITH A WEATHERPROOF FITTING. PROVIDE GROUNDING ROD AS REQUIRED.
- 6. THE CONTRACTOR MUST COORDINATE WITH THE LEE COUNTY TRAFFIC DIVISION BEFORE STARTING ANY WORK ON THE LOAD CENTER.

04		RE\	ISIONS			THOMAS M. WAITS, P.E.	DRAWN BY:		LEE COU			REF. DWG. NO.
Z DAT	E BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 55460	JAH 4/24 CHECKED BY:	DEPAI		ANSPORTATION	REPAIR TYPE 5 DETAILS	
2-7-2	?5 SDS	REVISED NOTE				HIGHSPANS ENGINEERING, INC.	TMW 4/24					
jec		<u>/2</u> \				2121 MCGREGOR BOULEVARD	DESIGNED BY:	ROAD NO.	COUNTY	COUNTY PROJECT NO.	PROJECT NAME:	SHEET NO.
2-12-	25 SDS	ADDED NOTE				SUITE 200	JAH 4/24		, , , ,	CHARRATALIA	MIDPOINT BRIDGE REPAIRS	
217		/2					CHECKED BY:		LEE	CN200224JJB	MIDFOINT BRIDGE REFAIRS	14
. . .		/2\				FORT MYERS, FL 33901	TMW 4/24			CNZOOZZ433B	THE POINT BRIDGE HET THE	



	REPAIR TYPE 6 QUANTITIES EXPANSION JOINT REPAIRS												
LOCATION UNIT ESTIMATED QUANTITY													
PIER 42	MODULAR JOINT NEOPRENE SEAL	LF	81										
PIER 45	MODULAR JOINT NEOPRENE SEAL	LF	81										
PIER 55	STRIP SEAL JOINT NEOPRENE SEAL	LF	81										

- 1. REPLACEMENT OF BRIDGE EXPANSION JOINT NEOPRENE SEALS TO BE COMPLETED IN PHASES FOLLOWING THE TRAFFIC CONTROL PLAN.
- 2. PIER 55 EXPANSION JOINT STRIP SEAL FRAME RAILS ARE IDENTIFIED AS D.S. BROWN STEELFLEX SSCM2. PIERS 42 AND 45 EXPANSION JOINTS ARE IDENTIFIED AS D.S. BROWN MODULAR "D" SYSTEM. SEE EXISTING STRUCTURES PLANS SHEETS C-104A AND C-105A FOR ADDITIONAL EXPANSION JOINT INFORMATION AND DATA TABLES.
- 3. STRIP SEALS IDENTIFIED SHALL BE REPLACED IN KIND. EVALUATE THE EXISTING JOINTS TO VERIFY THE RAIL TYPE MATCHES THE PROPOSED PRODUCT. CONTRACTOR SHALL SUBMIT PROPOSED ELASTOMERIC STRIP SEAL PRODUCT, STRIP SEAL REMOVAL, AND INSTALLATION PROCEDURES TO ENGINEER FOR APPROVAL.
- 4. CONTRACTOR MUST COORDINATE WITH D.S. BROWN FOR STRIP SEAL REMOVAL AND INSTALLATION. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS AND PERFORM ALL WORK IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 458.
- 5. PORTIONS OF STRIP SEALS TO BE USED FOR PHASED CONSTRUCTION ARE TO BE TEMPORARILY COILED AND STORED NEAR THE EDGE OF PREVIOUS PHASE INSTALLATION. STRIP SEALS CANNOT BE CUT AT THE BOUNDARY BETWEEN

4		REVI	REVISIONS			THOMAS M. WAITS, P.E.	I DD COIDING			JTY	SHEET TITLE:		
DAT	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 55460	JAH 4/24 CHECKED BY:	DEPARTMENT OF TRANSPORTATION			REPAIR TYPE 6 DETAILS		
7						HIGHSPANS ENGINEERING, INC.	TMW 4/24	2234 141				1	
) ec						2121 MCGREGOR BOULEVARD	DESIGNED BY:	ROAD NO.	COUNTY	COUNTY PROJECT NO.	PROJECT NAME:	SHEET NO.	
0						SUITE 200	JAH 4/24				MIDPOINT BRIDGE REPAIRS	OFFICE TWO.	
						FORT MYERS, FL 33901	CHECKED BY:		LEE	CN200224JJB	MIDPOINT BRIDGE REPAIRS	15	
:						TORT WILLO, I E 0000 I	TMW 4/24						

PLAN OF PROPOSED

COUNTY ROAD NO. 884

THIS CONTRACT PLAN SET INCLUDES

STRUCTURE PLANS

SIGNING AND PAVENENT MARKING PLANS

LIGHTING PLANS

LEE COUNTY CONTRACT NO. C861114

PROJECT NO. 5896

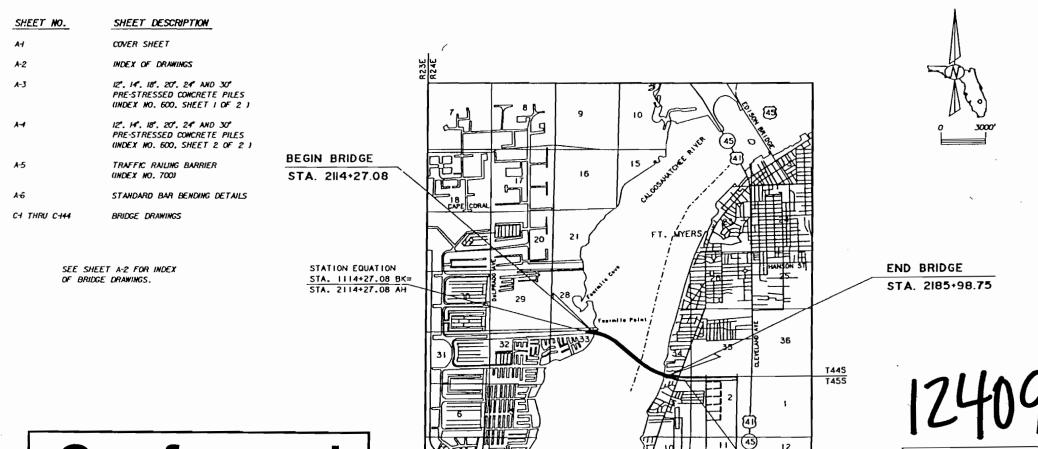
BID PACKAGE 2

MIDPOINT CORRIDOR PROJECT

MIDPOINT CORRIDOR OVER CALOOSAHATCHEE RIVER

INDEX OF STRUCTURE PLANS

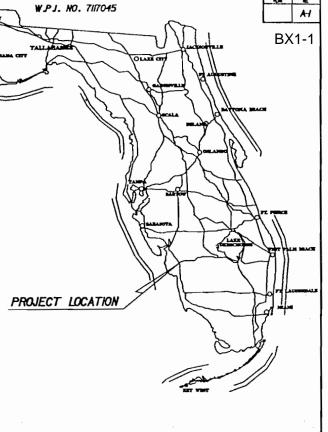
BRIDGE PLANS



Conformed

REVISIONS										
DATE BY DESCRIPTION										
	1									
	1									

STATION EQUATION STA. 2185+98.75 BK=



ENGINEER OF RECORD

TAMPA, FLORIDA CONSULTING ENGINEERS P.O. BOX 31646 TAMPA, FLORIDA 33631-3416

THIS SEAL APPLIES TO THESE PROJECT DRAWINGS AS THEY EXISTED ON ______ AND DOES NOT APPLY TO OR CERTIFY THE ACCURACY OF REVISIONS MADE BY OTHERS AFTER THAT DATE.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA. DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 1991 AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

STRUCTURE PLANS APPROVED BY:	
DATE:	
0 5 410	

BX1-2

PLAN OF PROPOSED COUNTY ROAD NO. 884

LEE COUNTY CONTRACT NO. C861114

PROJECT NO. 5896

BID PACKAGE 2

MIDPOINT CORRIDOR PROJECT

MIDPOINT CORRIDOR QUER CALOOSAHATCHEE RIVER

VECP PRIDGE PLANS

PROJECT LOCATION

124096

FINLEY MCNARY/JANSSEN SPAANS

2825 East 56th Street Indianapolis, Indiana 46220

CW.N. 5/96

BEGIN BRIDGE STA. 2114+27.08

> STATION EQUATION STA. 1114+27.08 BK=

> > FINLEY MCNARY/JANSSEN SPAANS

STATION EQUATION

STA. 2185+98.75 BK=

END BRIDGE

STA. 2185+98.75

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

WIDPOINT BRIDGE COVER SHEET

INDEX OF DRAWINGS

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	(FDOT INDEX NO. 600, SHEET 1 OF 2)	C-46A	PEDESTAL ELEVATIONS (4)	C-98A	MAIN SPAN UNIT ERECTION SEQUENCE
A ~ 4	12". 14". 18". 20". 24". AND 30" PRE-STRESSED CONCRETE PILES	C-47	FOOTING DETAILS - PIERS 32 AND 55	C-99A	HIGH EEVEL APPROACH UNIT CAMBER DIAGRAMS
	(FOUT INDEX NO. 600, SHEET 2 OF 2)	C48	FOOTING DETAILS - PIERS 33 THRU 36 AND 51 THRU 54	C-100A	MAIN SPAN UNIT CAMBER DIAGRAM
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C-1A	GENERAL NOTES (1)	C-51	FINISH GRADE ELEVATIONS (1)	C-103A	BEARING DETAILS (3)
C-2A	GENERAL NOTES (2)	· C~52	FINISH GRADE ELEVATIONS (2)	C-104A	EXPANSION JOINT DETAILS (1)
C-3A	CENERAL NOTES (3)	C-53A	FINISH GRADE ELEVATIONS (3)	C-105A	EXPANSION JOINT DETAILS (2)
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C-22	FOUNDATION LAYOUT (1)	C-72A	SUPERSTRUCTURE SECTIONS - SPANS 42 THRU 44 .	C-124A	REINFORCING BAR LIST (9)
C-23	FOUNDATION LAYOUT (2)	C-73A	MISCELLANEOUS SUPERSTRUCTURE DETAILS (1) - SPANS 32 THRU 41 AND 45 THRU 54	C-125A	REINFORCING BAR LIST (10)
C-24	FOUNDATION LAYOUT (3)	C-73A2	MISCELLANEOUS SUPERSTRUCTURE DETAILS (2) - SPANS 42 THRU 44	C-126A	REINFORCING BAR LIST (11)
C-25	FOUNDATION LAYOUT (4)	C-74A	MISCELLANEOUS SUPERSTRUCTURE DETAILS (3) - SPANS 32 THRU 54	C-127A	REINFORCING BAR LIST (12)
C-26	FOUNDATION LAYOUT (5)	C-74AZ	SUPERSTRUCTURE ESTIMATED QUANTITIES	C-128A	REINFORCING BAR LIST (13)
C-27	FOUNDATION LAYOUT (6)	C-75	FRAMING PLAN (1)	C-129A	REINFORCING BAR LIST (14)
C~28	FOUNDATION LAYOUT (7)		FRANING PLAN (2)	C-130A	REINFORCING BAR LIST (15)
C-29	END BENT 1		FRAMING PLAN (3)	C-131A	REINFORCING BAR LIST (16)
C-30	ENO BENT 64		FRAMING PLAN (4)	C-132A	REINFORCING BAR LIST (17)
C-31	END BENT DETAILS		FRAMING PLAN (5)		REINFORCING BAR LIST (18)
C-32	PIERS 2 THRU 16 AND 56 THRU 63		FRAMING PLAN (6)		REINFORCING BAR LIST (19)
C-33	PIERS 17 THRU 31		FRAMING PLAN (7)	C-135A	REINFORCING BAR LIST (20)
C-34	PIER OETAILS - PIERS 2 THRU 31 AND 56 THRU 63		AASHTO TYPE IV BEAMS - TYPICAL BEAM & STRAND PATTERN	C-136A	REINFORCING BAR LIST (21)
C-35A	PIERS 32 AND 55		TYPICAL NOTES & DETAILS FOR AASHTO TYPE IV PRESTRESSED BEAMS		REINFORCING BAR LIST (22)
C-36A	PIER DETAILS - PIERS 32 AND 55		PRESTRESSED BEAMS AASHTO TYPE IV TABLE OF BEAM VARIABLES (1)		REINFORCING BAR LIST (23)
C-37A	PIERS 33.34.36.37.39.40.41.46.47.48.50.51.53 AND 54		PRESTRESSED BEAMS AASHTO TYPE IV TABLE OF BEAM VARIABLES (2)		REINFORCING BAR LIST (24)
C-37A2	PIERS 35.38.49 AND 52		PRESTRESSED BEAMS AASHTO TYPE IV TABLE OF BEAM VARIABLES (3)		REINFORCING BAR LIST (25)
C-38A	PIER DETAILS - PIERS 33 THRU 41 AND 46 THRU 54		PRESTRESSED BEAMS AASHTO TYPE IV TABLE DF BEAM VARIABLES (4)		REINFORCING BAR LIST (26)
C-39A	PIERS 42 AND 45		HIGH LEVEL APPROACH UNIT 72" FBT - END SPAN	C-142	REINFORCING BAR LIST (27)
C-4DA	PIERS 43 AND 44		HIGH LEVEL APPROACH UNIT 72" FBT - INTERIOR SPAN	C-143A	REINFORCING BAR LIST (28)
C-41A	PIER OETAILS - PIERS 42 THRU 45		HIGH LEVEL APPROACH UNIT 72" FBT - BEAM DETAILS	C-144A	REINFORCING BAR LIST (29)
C-42A	SHEAR KEY AND PEDESTAL DETAILS - PIERS 33 THRU 41 AND 46 THRU 54	C-91A	MAIN SPAN UNIT - END SEGMENT		

C-92A MAIN SPAN UNIT - HAUNCH SEGMENT



FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNory Engineers, Inc 1391 Timberlane Road Suite 200 Tallahossee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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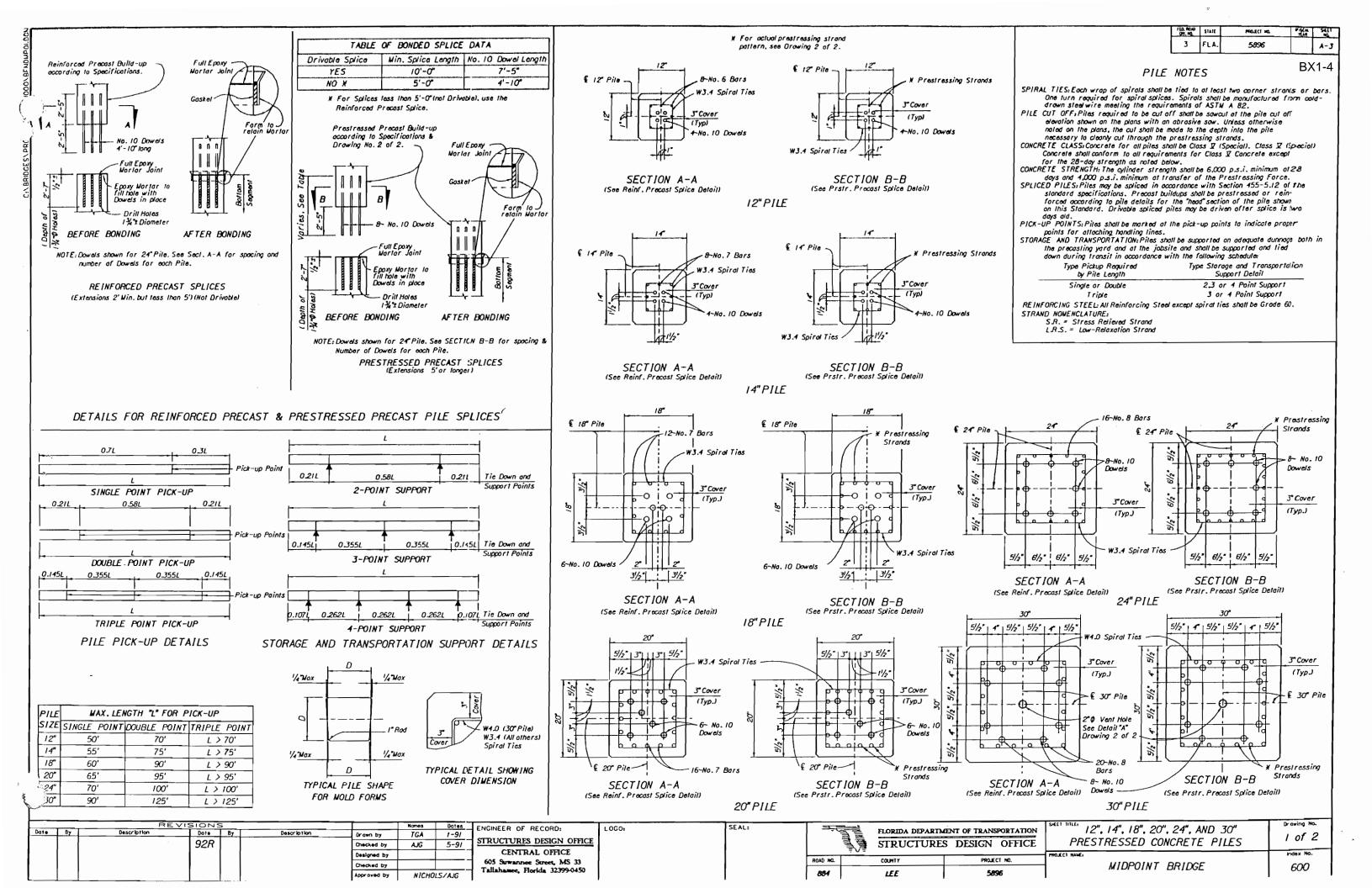
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	87	DESCRIPTION	DATE	87		DR. BY	1172	5/96
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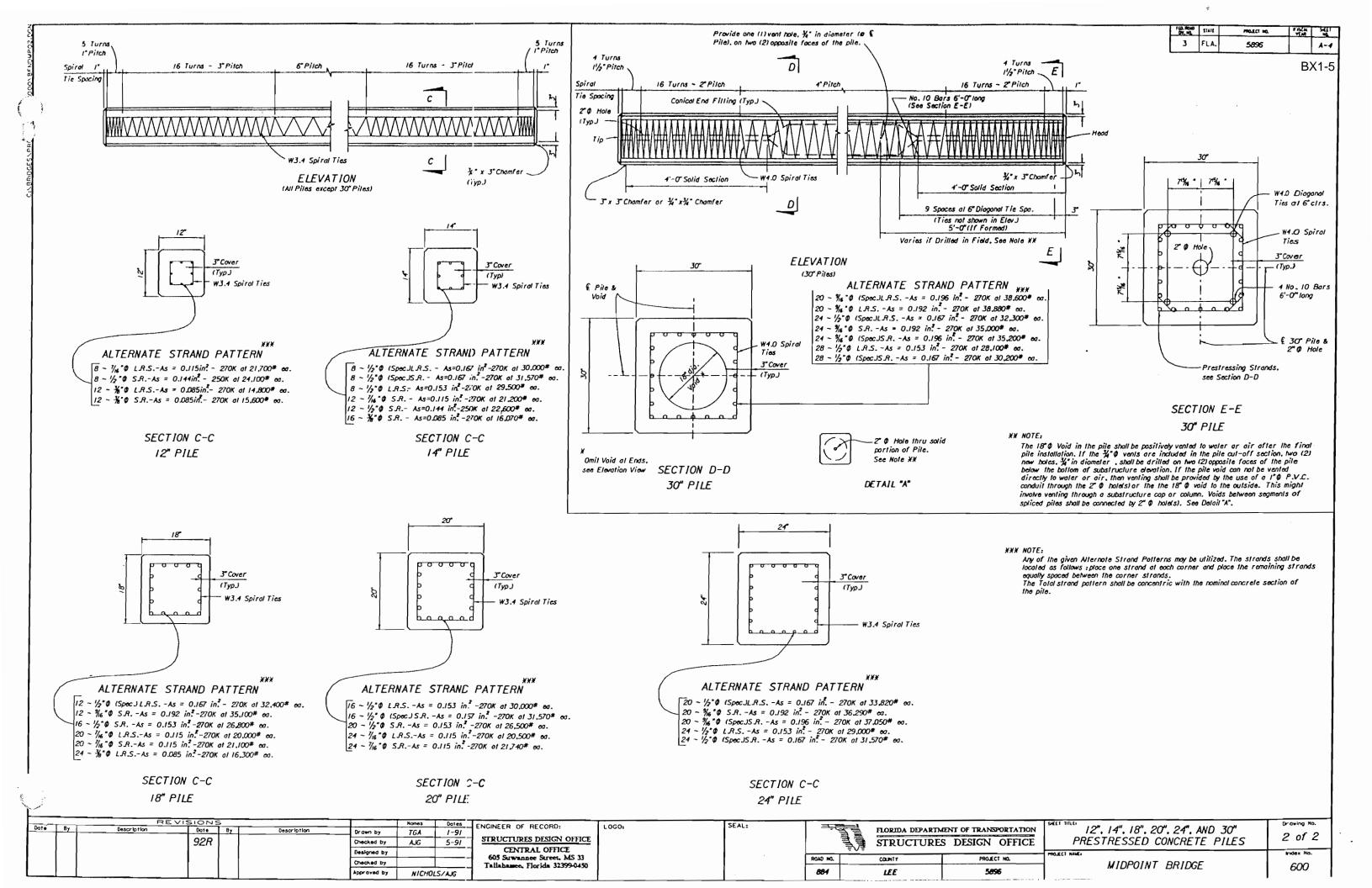
C-42A2 SHEAR KEY AND PEDESTAL DETAILS - PIERS 42 THRU 45

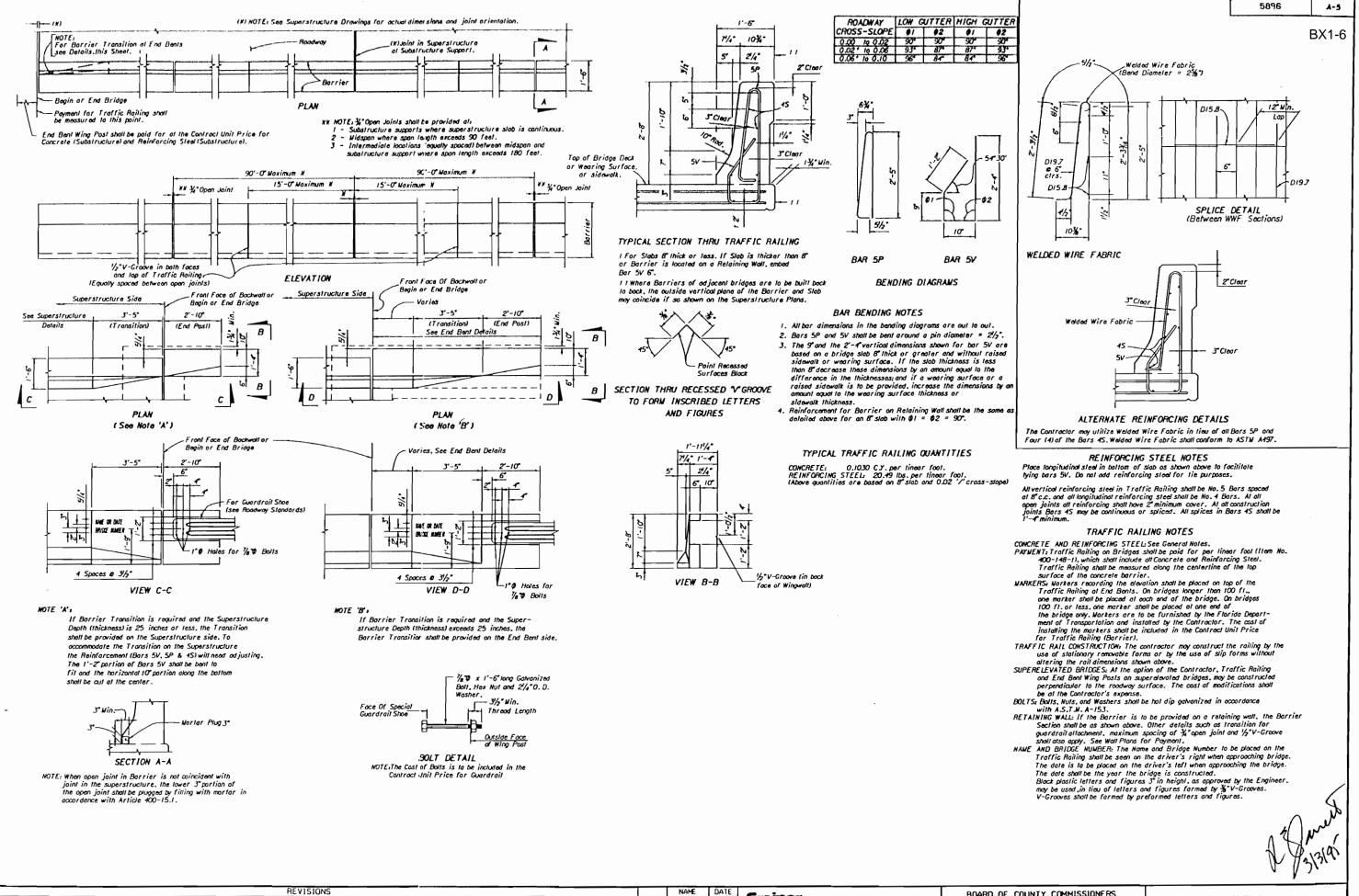
FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE INDEX OF DRAWINGS







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DESCRIPTION

DATE BY

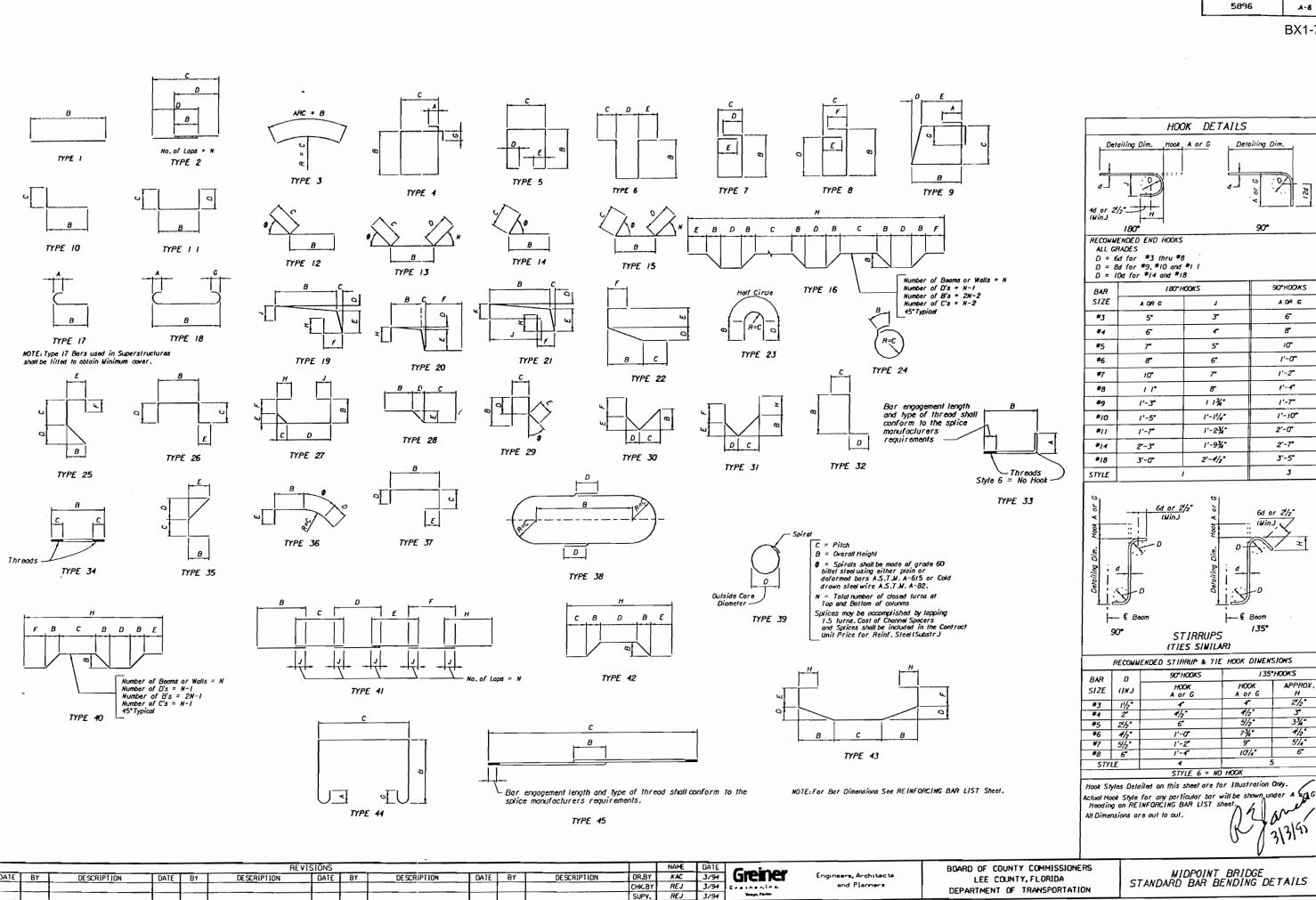
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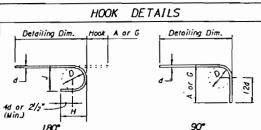
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SHEET NO.



PROJECT NO. SHEET NO. A-6 BX1-7



BAR	180	HOOKS	90°H00KS
SIZE	A OR G	J	A OP G
#3		3*	6
#4	. 6"	4	8"
# 5	7°	5*	10
*6	8"	6".	1'-0"
#7	10	7"	1'-2"
* 8	1 1*	8"	1'-4
#9	1'-3"	1 1光*	1'-7"
*10	1'-5"	1'-1'/4"	1'-10"
#//	1'-7"	1'-27/4"	2'-0"
14	2-3	1'-9¾	2'-7"
*18	3'-0"	2'-4/2"	3'-5 "
$\overline{}$			

2. BOAT TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

XXDESIGN SPECIFICATIONS +

I, DESIGNED IN ACCORDANCE WITH THE 1992 EDITION OF THE MASHTO

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

2. DESIGN IS ALSO IN ACCORDANCE WITH THE FOOT STRUCTURES DESIGN CUIDELINES' THROUGH REVISION "H", AND DETAILED IN ACCORDANCE WITH FOOT "STRUCTURES DETAILING MANUAL", DATED NOV. 2, 1992.

3. DESIGNED IN ACCORDANCE WITH THE 1991 AASHTO QUIDE SPECIFICATION AND COMMENTARY FOR VESSEL COLLISION DESIGN OF HIGHWAY BRIDGES.

4. SHRINKAGE COEFFICIENT AND CREEP FACTORS ARE IN ACCORDANCE WITH THE CEB/FIP 1978 CUIDELINES.

WE EXCEPT AS DIRECTED OTHERWISE BY LEE CO.

DESIGN METHOD I

I. ALL MAJOR COMPONENTS ARE DESIGNED FOR LOAD FACTOR DESIGN, EXCEPT FOR PRESTRESSED BEANS. BEARINGS AND PILES, WHICH ARE DESIGNED BY SERVICE LOAD DESIGN. PRESTRESSED BEAMS ARE ALSO CHECKED FOR ULTIMATE CAPACITY.

I. HS20-44 IMODIFIED FOR MILITARY LOADING AS REQUIRED) AND FLORIDA LEGAL LOADS SU2. SU3. SU4. C3. C4. AND C5.

2. PRESTRESSED BEAMS DESIGNED FOR AN ADDITIONAL 5% LIVE LOAD.

3. DESIGN TEMPERATURES FOR THERMAL LOADS

		RISE FALL M MEAN FROM M	COEFFICENT OF THERMAL EXPANSION
FOR STRUCTURAL DESIGN FOR BEARINGS & D.J.S.		50° F 40° F 25° F 25° F	 5Ω Χ Ю ⁶ /F 5Ω Χ Ю ⁶ /F
DISTRIBUTION VALUES: LIVE LOADS (LANE/BEAM)	TYPE BEAMS I & 9 B4	N BEAMS 2 THRU 8	 P FBT BEAMS 2 THRU B B4

TRAFFIC RAILING BARRIER (PLF) MEDIAN BARRIER (PLF)

S - BEAM SPACING N - NUMBER OF BEAMS

5. LIVE LOAD IMPACT FACTORS: WAIN SPAN UNIT:

SIDE SPAN (POSITIVE MOMENT) I - 18X

CENTER SPAN IPOSITIVE MOMENT) I - 15% CENTER SPAN INEGATIVE MOMENTI I - 16X

APPROACH SPAN UNITS:

POSITIVE MOMENT I - 19X (SPAN: 144'-9') AND I - 23X (SPAN: 93'-11')

6. CONSTRUCTION LIVE LOAD OF 10 PSF FOR ALL STAGES DURING ERECTION AND CONSTRUCTION. PROPOSED CONSTRUCTION LOADS, IF GREATER. SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND NO BEAMS SHALL BE

209

MANUFACTURED UNTIL SUCH PROPOSED CONSTRUCTION LOADS HAVE BEEN APPROVED. 7. LONGITUDINAL FORCES DUE TO TRAFFIC EQUAL 5 PERCENT OF THE LIVE

LOAD IN 3 LANES CARRYING TRAFFIC HEADED IN THE SAME DIRECTION.

B.CENTRIFUGAL FORCE FOR 50 M.P.H. IN 6 TRAFFIC LANES.

9. EARTHOUAKE - SEISMIC PERFORMANCE CATEGORY A.

10.WIND LOADS ARE COMPUTED IN ACCORDANCE WITH AASHTO ARTICLE 3.15 FOR A 100 MPH WIND WIND PRESSURES ARE MODIFIED AS PER SECTION 4.3 OF THE FDOT "STRUCTURES DESIGN GUIDELINES".

SHIP IMPACT CRITERIA I

I. PIERS 43 AND 44 IN THE WATERWAY ARE DESIGNED FOR THE MOST CRITICAL LOADING (A OR B).

A. AN EQUIVALENT STATIC 2734 KIP LOAD APPLIED PARALLEL TO THE CENTERLINE OF THE PIER

B. AN EQUIVALENT STATIC 1367 KIP LOAD APPLIED PERPENDICULAR TO THE CENTERLINE OF THE PIER.

THE EQUIVALENT STATIC LOADS ARE APPLIED AT ELEVATION 4J AT THE FOOTING CENTER. THE MOST CRITICAL LOADING IS COMBINED WITH DEAD LOAD, BUDYANCY, AND STREAM FLOW EVALUATED AT FULL ULTIMATE CAPACITY WITH A LOAD FACTOR EDUAL TO ONE MIDI.

2. REMAINING PIERS ARE DESIGNED FOR AN EQUIVALENT STATIC LOAD APPLIED IN THE SAME WANNER AS ABOVE WITH MAGNITUDES CALCULATED BASED ON THE DISTANCE FROM THE SHIP CHANNEL AND GROUPED AS FOLLOWS:

REVISIONS

DATE

DESCRIPTION

DESCRIPTION

<u> PIE</u> R	LOAD PARALLEL TO & PIER	LOAD PERPENDICULAR TO & PIER
32 THRU 36 & 51 THRU 55	2000 KIPS	1000 KIPS
37 THRU 40 & 47 THRU 50	2300 KIPS	1150 KIPS
11, 42, 45 & 46	2600 KIPS	1300 KIPS

DATE BY

ENVIRONMENT :

1. SUPERSTRUCTURE: (SUGHTLY AGGRESSNE)

2. SUBSTRUCTURE: (EXTREMELY AGGRESSIVE)

DESCRIPTION

3. LOCATION: COASTAL

FUTURE WEARING SURFACE :

I. DESIGNED FOR IS POUNDS PER SQUARE FOOT FUTURE WEARING SURFACE.

STAY - IN - PLACE - FORMS >

I. STEEL STAYIN-PLACE FORMS WILL NOT BE PERMITTED ON THIS BRIDGE.

CONCRETE :

I, CONCRETE,

CLASS	MAX, ALLOWABLE SERVICE	MINIMUM 28 DAY	DESIGN UNIT WEIGHT	DESIGN MODULUS	LOCATION
OF	COMPRESSIVE STRESS	COMPRESSIVE STRENGTH	INCL. REINFORCING	OF ELASTICITY	or
CONCRETE	IPSII	IP\$I)	IPCF)	(KSI)	CONCRETE
	1200	3000	150	2800	SEAL
N	1360	5500 ×	150	3000	CJ.P. SUBSTRUCTURE
//	1360	4500 X	150	2825	BRIDGE DECK
//	1360	3400	150	2825	TRAFFIC RAILING BARRIER
V ISPECIAL	2400	6000	150	4000	PRESTRESSED PILES
N	2200	5500	150	5900	SIMPLE SPAN - PRESTRESSED BEAMS
V (SPECIAL)	2400	6000	150	4000	SIMPLE SPAN - PRESTRESSED BEAMS
<i>v</i>	2600	6500	150	4200	POST-TENSIONED - PRESTRESSED BEAMS, CLOSURE POURS
K DECKH I	C 04550 OH 6' \$400 B	c,			AND INTERMEDIATE DIAPHRAGMS

CLASS V ISPECIAL CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF CLASS V CONCRETE EXCEPT FOR THE WINIMUM 28-DAY COMPRESSIVE STRENGTH.

2. CONCRETE SHALL CONFORM TO SECTION 346 OF THE SUPPLEMENTAL SPECIFICATIONS. 3. THE GRADE OF COARSE ACGREGATE FOR ALL BEAMS SHALL BE GRADE NO. 67.

FOR THE MAIN SPAN UNIT BEAMS, 100 PERCENT OF THE GRADE NO. 67 COARSE AGGREGATE SHALL PASS THE Xº SIEVE.

1. PROVIDE X CHANFERS ON ALL EXPOSED EDGES. UNLESS NOTED OTHERWISE.

5. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.

6. SUBSTRUCTURE CORROSKOW INHIBITING ICII CONCRETE SHALL BE CLASS N WITH ADDITIVES AS DESCRIBED IN THE SPECIAL PROVISIONS AND AS SHOWN HEREIN. LEE CO. MAY DIRECT ADDITIONAL CI CONCRETE BE PLACED OR DIRECT THAT ANY OR ALL SPECIFIED CI CONCRETE NOT BE USED.

REINFORCING STEEL :

I. REINFORCING STEEL SHALL BE ASTM AGIS. GRADE 60. ALLOWABLE TENSILE STRESS FOR GRADE 60 - FS - 24,000 P.S.J.

2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BARS EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.

3. REINFORCING STEEL DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.

4. COVER ON REINFORCING STEEL AS FOLLOWS. UNLESS MOTED OTHERWISE:
PRESTRESS GIRDERS PA' EXCEPT TOP SURFACE OF TOP FLAMGE
PRESTRESS GIRDERS A' TOP OF TOP FLAMGE

SUPERSTRUCTURE CJP. 2

SUBSTRUCTURE CJP. 3 EXTERNAL SURFACES FORMED

SUBSTRUCTURE CJP 4 EXTERNAL SURFACES CAST AGAINST EARTH AND IN WATER CONCRETE COVERS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER".

SUPERSTRUCTURES :

I. PLACE ALL INTERMEDIATE DIAPHRAGMS AT LEAST 48 HOURS BEFORE PLACING SLABS (UNO). 2. SLABS WILL BE SCREEDED LONGITUDINALLY BETWEEN BULKHEADS, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER.

3. BRIDGE FLOOR GROOVING SHALL BE IN ACCORDANCE WITH SECTION 400.15.2 OF THE CONSTRUCTION SPECIFICATIONS.

SUBSTRUCTURES .

DATE BY

I. DO NOT PLACE THE BACKFILL ABOVE THE END BENT CAP BEHIND THE END BENT BACKWALL UNTIL THE BEAMS HAVE BEEN SET IN PLACE. 2. SEAL CONCRETE SHALL BE INSTALLED AT THE PIERS AND IN ACCORDANCE TO STANDARD

SPECIFICATION 400-8 AND SUPPLEMENTAL SPECIFICATION SECTION 455-3.2.4. THE COST FOR USE OF COFFERDAMS OR FOUNDATION ENCLOSURES, AND DEWATERING FOR THE PIERS SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE FOR SEAL CONCRETE. PAYMENT WILL BE FOR THE ACTUAL AMOUNT OF SEAL CONCRETE USED.

SPECIAL CONSTRUCTION NOTES

I. SHALLOW WATER EXISTS NEAR THE SHORELINE OF THE RIVER. AND DREDGING. USE OF BARGES, OR USE OF A TEMPORARY TRESTLE MAY BE REQUIRED FOR BRIDGE CONSTRUCTION, OBTAINING ANY REQUIRED PERMITS IS THE RESPONSIBILITY
OF THE CONTRACTOR AS ARE ANY CONDITIONS OF THE PERMITS, INCLUDING MITIGATION. THE COST OF PERMITTING, USE OF BARGES, OR USE OF TEMPORARY TRESTLE AND ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACTOR'S BID FOR CONSTRUCTION. AND NO ADDITIONAL COMPENSATION WILL BE ALLOW FOR ANY ITEMS HEREIN MENTIONED.

2. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR CONSTRUCTING BID PACKAGE NO. I SO AS NOT TO DELAY HIM FROM CONSTRUCTING THOSE ITEMS SHOWN OF THE MITIGATION PLANS IN BID PACKAGE NO. I.

3. THE CONTRACTOR FOR BID PACKAGE 2 IS TO WORK DIUGENTLY WITH THE CONTRACTOR FOR BID PACKAGE I IN SCHEDULING HIS ACTIVITIES WITH THE END BENT AND SPAN ONE WHEREIN THE EMBANKMENT FOR THE END BENT, SEAWALL AND MITIGATION IS TO BE COMPLETED PRIOR TO THE INSTALLATION OF THE SLOPE PAVEMENT AND SETTING OF THE BEAMS. THE CONTRACTOR IS TO ATTEND WEEKLY WEETINGS. OR AS DESIGNATED. TO CORRELATE THESE EVENTS.

4. THE CONTRACTOR FOR BID PACKAGE 2 IS TO WORK DILIGENTLY WITH THE CONTRACTOR FOR BID PACKAGE 3 IN SCHEDULING HIS ACTIVITIES WITH THE END BENT AND SPANS 62 AND 63 WHEREIN THE EMBANKMENT FOR END BENT, SEAWALL AND CLEARING AND GRUBBING IS TO BE COMPLETED PRIOR TO THE INSTALLATION OF THE SLOPE PAVEMENT AND SETTING OF THE BEAMS THE CONTRACTOR IS TO ATTEND WEEKLY MEETINGS. OR AS DESIGNATED, TO CORRELATE THESE EVENTS.

5. THE CONTRACTOR IS TO COOPERATE WITH THE CONTRACTORS FOR PACKAGE I AND 3 TO MAINTAIN THE STAGING SITE AND ACCESS.

6. NO JETTING WILL BE ALLOWED FOR THE TEST PILE OR PERMANENT PILE INSTALLATION DUE TO ENVIRONMENTAL CONCERNS.

DESCRIPTION

7. THE CONTRACTOR WILL BE PROVIDED ACCESS TO END BENT "I TO DRIVE ONTO THE BRIDGE DECK VIA THE MISE WALL FILL AREA WITHIN 180 DAYS OF THE OFFICIAL MOTICE TO PROCEED.

REARINGS .

I. FOR NOTES ON BEARING REPLACEMENT, SEE SHEET C-73.

DESIGN LOAD FOR PILES 1

1. 24 SOUARE PRESTRESSED CONCRETE PILES SHALL BE USED FOR PIERS AND IN PRESTRESSED CONCRETE PILES FOR END BENTS.

2. FOR NOTES REGARDING INSTALLATION AND DESIGN LOADS FOR PILES, SEE INDIVIDUAL FOUNDATION LAYOUT DRAWINGS OF EACH STRUCTURE.

BID ITEM NOTES :

I. FOR "SUMMARY OF BRIDGE PAY ITEMS" SEE SHEET C-4.

2. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS.

3. ALL BEARINGS SHALL BE FURNISHED BY THE CONTRACTOR.

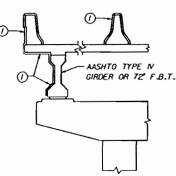
BID ITEM NO. 400-14T INCLUDES QUANTITIES FOR STANDARD (AND NON-STANDARD) PADS.

4. BID ITEM NO. 400-7 INCLUDES APPROACH SLAB GROOVING.

5. DETAILS OF APPROACH SLABS AND THEIR PAYMENT ARE INCLUDED UNDER THE ROADWAY PLANS.

ALTERNATE DESIGN USING PRECAST PIERS

CONTRACTOR DESIRING TO SUBMIT AN ALTERNATE DESIGN USING PRECAST CONCRETE PIERS SHALL PAY FOR ALL COSTS ASSOCIATED WITH THE REDESIGN INCLUDING REVIEW BY THE OWNERS ENGINEER. ALL DOCUMENTS SHALL BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER.



(1) CLASS 5 APPUED FINISH COATING

SURFACE FINISH:

1. FINISH IN ACCORDANCE WITH ARTICLE 400-15-2 OF THE CONSTRUCTION SPECIFICATIONS UNLESS NOTED OTHERWISE.

2. IN ADDITION TO SUPERSTRUCTURE SURFACES SHOWN IN DETAIL, EXPOSED VERTICAL SURFACES OF END BENT CHEEKWALL AND CAP SHALL RECENE A CLASS 5 APPLIED FINISH COATING!

PIER

TYPICAL SURFACE FINISH DETAILS

PROJECT NO.

5896

SHEET NO

C-₹

BX1-8

MIDPOINT BRIDGE GENERAL NOTES (1)

PLOTTED: OBMAY95-10.19.50

DATE BY

DR.BY MOD 7/93 CHK.BY REJ 7/93 SUPY. REJ 7/93

Greiner Greiner, Inc.

Engineers, Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

NUMBER OF SPECIFICATIONS I

- F. DESIGNED IN ACCOMDANCE WITH THE 1902 EDITION OF THE AASHTO
- STANDARD SPECIFICATIONS FOR HIGHNAY BRIDGES
- 2. DESIGN IS ALSO IN ACCOMMANCE WITH THE LOOK STRUCTURES DESIGN QUIDELINES THROUGH REVISION TO, AND DETAILED IN ACCORDANCE WITH FOOT "STRUCTURES DETAILING MANUAL", DATED HOV. 2, 1992.
- 3. DESIGNED IN ACCOMDANCE WITH THE 1991 AASHTO GUIDE SPECIFICATION AND COMMENTARY FOR VESSEL COLLISION DESIGN OF HIGHWAY UNIDGES.
- 4. SIMINKAGE COLLECTION AND CHEEP FACTORS ARE IN ACCORDANCE WITH THE CEBIT IP 1978 GUIDELINES.

XX EXCLPT AS DIRECTED OFFERWEST IN UT CO.

DESIGN METHOD I

I. ALL MAJOH CONTONENTS ARE DESIGNED FOR LOAD FACTOR DESIGN, EXCEPT FOR PHESTRESSED DEAKS, DEAKINGS AND PHES, WHICH AND DESIGNED BY SERVICE LOAD DESIGN, PRESTRESSED DEAKS ARE ALSO CHECKED FOR ULTIMATE CAPACITY.

LOADINGS (

- 1. HS20-44 (MODIFILO FOR WILLTANY LOADING AS REQUIREDIAND FLORIDA LEGAL LOADS SUZ, SUJ, SU4, CJ, C4, AND C5.
- 2, PRESTRESSED BEAMS DESIGNED FOR AN ADDITIONAL 5% LIVE LOAD.
- J. DESIGN TEMPERATURES FOR THERMAL IDADS:

	NI AN	RISE FROM MEAN	FALL FROM MEAN	HANGE	COEFFICIENT OF THERMAL EXPANSION
FOR STRUCTURAL DESIGN	707	30"1"	40"	70"/	50 x 10 -6/1-
FOR BEARINGS & D.J.S.	TOTE	257	25°F	50-1	50 x 10 6/1-
4. DISTRIBUTION VALUES:		TYPE IV BEAUS		MODIFIED	TYPE VI BEAUS
LIME LOADS	Incaus i	L Q REAUS 9	THINK R DEA	US I L A	REAUS 2 THIN !

S. LIVE LOAD IMPACT FACTORS: MAIN SPAN UNIT:

MEDIAN BARRIER IPLES

(LANE/BEAU)

TRAFFIC RAILING

BARHIER (PLF)

SIDE SPAN IPOSITIVE MOMENTI I . 18X

CENTER SPAN IPOSITIVE MONENT) 1 = 15%

CENTER SPAN INEGATIVE MOMENT) | = 16%

APPROACH SPAN UNITS:

- POSITIVE MOMENT 1 * 19% (SPAN: 144"-9") AND 1 * 23% ISPAN: 93"-11")
- 6. CONSTRUCTION LIVE LOAD OF 10 PSF FOR ALL STAGES DURING ERECTION AND CONSTRUCTION. PROPOSED CONSTRUCTION LOADS, IF GREATER, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND NO BEANS SHALL BE MANUFACTURED UNTIL SUCH PROPOSED CONSTRUCTION LOADS HAVE BEEN APPROVED.
- T. LONGITUDINAL FORCES DUE TO TRAFFIC EQUAL 5 PERCENT OF THE LIVE
- LOAD IN 3 LANES CARRYING TRAFFIC HEADED IN THE SAME DIRECTION.
- 8. CENTRIFUCAL FORCE FOR 50 M.P.H. IN 6 TRAFFIC LANES.
- 9. EARTHOUAKE SEISHIC PERFORMANCE CATEGORY A. DESIGN IN ACCORDANCE WITH SEISHIC CATEGORY B PROCEDURES.
- IO.WIND LOADS ARE COMPUTED IN ACCORDANCE WITH AASHTD ARTICLE 3.15 FOR A 100 MPH WIND WIND PRESSURES ARE MODIFIED AS PER SECTION 4.3 OF THE FOOT "STRUCTURES DESIGN GUIDELINES SHIP IMPACT CRITERIA :
- I. PIERS 43 AND 44 IN THE WATERWAY ARE DESIGNED FOR THE MOST
 - CRITICAL LOADING (A OR B):
 - A. AN EQUIVALENT STATIC 2734 KIP LOAD APPLIED PARALLEL TO THE CENTERLINE

 - B. AN EQUIVALENT STATIC 1367 KIP LOAD APPLIED PERPENDICULAR TO THE CENTERLINE OF THE PIER

THE EQUIVALENT STATIC LOADS ARE APPLIED AT ELEVATION +1.1 AT THE FOOTING CENTER. THE MOST CRITICAL LOADING IS COMBINED WITH DEAD LOAD, BUOYANCY, AND STREAM FLOW EVALUATED AT FULL ULTIMATE CAPACITY WITH A LOAD FACTOR EQUAL TO ONE IT = 1.0).

2. REMAINING PIERS ARE DESIGNED FOR AN EQUIVALENT STATIC LOAD APPLIED IN THE SAME MANNER AS ABOVE WITH MAGNITUDES CALCULATED BASED ON THE DISTANCE FROM THE SHIP CHANNEL AND GROUPED AS FOLLOWS:

PIER	LOAD PARALLEL TO (PIER	LOAD PERPENDICULAR TO (PIER	
32 THRU 36 & 51 THRU 55	2000 KIPS	1000 KIPS	
37 THRU 40 & 47 THRU 50	2300 KIPS	1150 KIPS	
11, 12, 15 & 46	2600 KIPS	1300 KIPS	

ENVIRONMENT :

- I. SUPERSTRUCTURE: ISLIGHTLY ACGRESSIVE)
- 2. SUBSTRUCTURE: (EXTREMELY ACGRESSIVE)
- J. LOCATION: COASTAL

...... TO COUNTY FER SQUARE FOOT FUTURE WE ARING SURFACE

STAY - IN - PLACE - FORMS I

I. STEEL STAY IN PLACE LOUNS WILL NOT BE PERMITTED ON THIS BRIDGE

CONCRETE

1. CONCRETE

CLASS OF	NAX. ALLOWABLE SERVICE COMPRESSIVE STRESS	MINIMUM 28 DAY COMPRESSIVE STHENGTH	DESIGN UNIT WEIGHT INCL. REINFORCING	DESIGN MODULUS OF ELASTICITY	IDCAT ION OF
CONCHE LE	(PSI)	(PSI)	(PCF)	(KSI)	CONCRETE
111	1200	3000	/50	2900	SEAL
IV	1360	3500 #	150	3000	C.I.P. SUBSTRUCTURE
11	1360	4500	150	3500	BRIDGE DECK
11	1360	3400	150	2025	TRATFIC RAILING BARRIER
V (SPECIAL)	24(X)	E(XX)	150	4000	PRESTRESSED PILES
IV	2700	5500	150	3900	SIMPLE SPAN - PRESTRESSED BEAMS CAASHTO TYPE ID
V (SPECIAL)	24X)	6000	150	4000	STAPLE SPAN - PRESTRESSED DEANS CAASILTO TYPE DD
V	Froo	6500	150	4200	STAPLE SPAN - PRESTRESSED REAMS IMODIFIED TYPE XD
R DESIGN IS	S HASED ON FE - 3400 PSI.				POST-TENSIONED - PRESTRESSED DEANS, CLOSURE POURS
CLASS V ISI	TELATICONCILETA SHALL CONF	OUR TO ALL PROUDENESSE OF			AND INTERMEDIATE DIAPHRAGES

- CLASS V CONCRETE EXCEPT FOR THE MINIMUM 28-DAY COMPRESSIVE STRENGTH E. CONCRETE SHALL CONFORM TO SECTION 346 OF THE SUPPLEMENTAL SPECIFICATIONS.
- 3. THE GRADE OF COARSE ACCREGATE FOR ALL BEAMS SHALL BE GRADE NO. 67. FOR THE WAIN SPAN UNIT BEANS, 100 PERCENT OF THE GRADE NO. 67 COARSE ACCREGATE SHALL PASS THE X'SIEVE.
- 4. PROVIDE X*CHAUFERS ON ALL EXPOSED EDGES, UNLESS MOTED OTHERWISE.
- 5. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICALLD ON PLANS, ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL HEOUIRE WRITTEN APPROVAL OF THE ENGINEER.
- 6. SUBSTRUCTURE CORROSION INHIBITING ICH CONCRETE SHALL BE CLASS IV WITH ADDITIVES AS DESCRIBED IN THE SPECIAL PROVISIONS AND AS SHOWN HEREIN. LEE CO. MAY DIRECT ADDITIONAL CI CONCRETE BE PLACED OR DIRECT THAT ANY OR ALL SPECIFIED OF CONCRETE NOT HE USED.

REINFORCING STEEL .

104.5

60.4

- 1. REINFORCING STEEL SHALL HE ASTN AGIS. GRADE 60.
- 2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BARS EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE
- 3. REINFORCING STEEL DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.
- 4. COVER ON REINFORCING STEEL AS FOLLOWS. UNLESS MOTED OTHERWISE, PRESTRESS GIRDERS IN EXCEPT TOP SURFACE OF TOP FLANGE

PRESTRESS GIRDERS "TOP OF TOP FLANGE

SUPERSTRUCTURE C.I.P.Z

SUBSTRUCTURE C.I.P. S'EXTERNAL SURFACES FORMED SUBSTRUCTURE C.I.P CEXTERNAL SURFACES CAST AGAINST EARTH AND IN WATER

CONCRETE COVERS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS

SUPERSTRUCTURES :

- I. PLACE ALL INTERNEDIATE DIAPHRAGNS AT LEAST 48 HOURS BEFORE PLACING SLABS (UNO). 2. SLABS WILL BE SCREEDED LONGITUDINALLY BETWEEN BULKNEADS, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER.
- 3. BRIDGE FLOOR GROOVING SHALL BE IN ACCORDANCE WITH SECTION 400.15.2 OF THE CONSTRUCTION SPECIFICATIONS.

SUBSTRUCTURES :

- I. DO NOT PLACE THE BACKFILL ABOVE THE END BENT CAP BEHIND THE END BENT BACKWALL UNTIL THE BEAMS HAVE BEEN SET IN PLACE,
- 2. SEAL CONCRETE SHALL BE INSTALLED AT THE PIERS AND IN ACCORDANCE TO STANDARD SPECIFICATION 400-8 AND SUPPLEMENTAL SPECIFICATION SECTION 455-3.2.4. THE COST FOR USE OF COFFERDANS OR FOUNDATION ENCLOSURES, AND DEWATERING FOR THE PIERS SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE FOR SEAL CONCRETE.
 PAYMENT WILL BE FOR THE ACTUAL AMOUNT OF SEAL CONCRETE USED.

SPECIAL CONSTRUCTION NOTES

- I. SHALLOW WATER EXISTS NEAR THE SHORELINE OF THE RIVER, AND DREDGING, USE OF BARGES, OR USE OF A TEMPORARY TRESTLE WAY BE REQUIRED FOR BRIDGE CONSTRUCTION. OBTAINING ANY REQUIRED PERMITS IS THE RESPONSIBILITY OF THE CONTRACTOR AS ARE ANY CONDITIONS OF THE PERMITS, INCLUDING MITIGATION. THE COST OF PERMITTING, USE OF BARGES, OR USE OF TEMPORARY TRESTLE AND ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACTOR'S BID FOR CONSTRUCTION. AND NO ADDITIONAL COMPENSATION WILL BE ALLOW FOR ANY ITEMS HEREIN MENTIONED.
- 2. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR CONSTRUCTING BID PACKAGE NO. I SO AS NOT TO DELAY HIM FROM CONSTRUCTING THOSE ITEMS SHOWN OF THE MITIGATION PLANS IN BID PACKAGE NO. 1.
- 3. THE CONTRACTOR FOR BIO PACKAGE 2 IS TO WORK DILIGENTLY WITH THE CONTRACTOR FOR BIO PACKAGE I IN SCHEDULING HIS ACTIVITIES WITH THE END BENT AND SPAN ONE WHERE THE EMBANKMENT FOR THE END BENT, SEAMALL AND MITIGATION IS TO BE COMPLETED PRIOR TO THE INSTALLATION OF THE SLOPE PAVEMENT AND SETTING OF THE BEAMS, THE CONTRACTOR IS TO ATTENO WEEKLY WEETINGS. OR AS DESIGNATED. TO CORRELATE THESE EVENTS.
- 1. THE CONTRACTOR FOR BID PACKAGE 2 IS TO WORK DILICENTLY WITH THE CONTRACTOR FOR BID PACKAGE 3 IN SCHEDULING HIS ACTIVITIES WITH THE END BENT AND SPANS 62 AND 63 WHEREIN THE ENBANKMENT FOR END BENT. SEAMALL AND CLEARING AND GRUBBING IS TO BE COMPLETED PRIOR TO THE INSTALLATION OF THE SLOPE PAVEMENT AND SETTING OF THE REAM THE CONTRACTOR IS TO ATTEND WEEKLY WEETINGS. OR AS DESIGNATED. TO CORRELATE THESE EVENTS.
- 5. THE CONTRACTOR IS TO COOPERATE WITH THE CONTRACTORS FOR PACKAGE I AND 3 TO MAINTAIN THE STAGING SITE AND ACCESS.
- 6. NO JETTING WILL BE ALLOWED FOR THE TEST PILE OR PERMANENT PILE INSTALLATION DUE TO ENVIRONMENTAL CONCERNS.
- 7. THE CONTRACTOR WILL BE PROVIDED ACCESS TO END BENT #1 TO ORIVE ONTO THE BRIDGE VIA THE WSE WALL FILL AREA WITHIN 180 DAYS OF THE OFFICIAL MOTICE TO PROCEED.

1. FOR MOTES ON BEARING REPLACEMENT, SEE SHEET C-73A & C-73A2.

DESIGN LOAD FOR PILES :

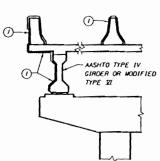
- 1. 24 SOUARE PRESTRESSED CONCRETE PILES SHALL BE USED FOR PIERS AND IN PRESTRESSED CONCRETE PILES FOR END BENTS.
- 2. FOR NOTES REGARDING INSTALLATION AND DESIGN LOADS FOR PILES, SEE INDIVIDUAL FOUNDATION LAYOUT DRAWINGS OF EACH STRUCTURE.

BID ITEM MOTES :

- I. FOR "SUMMARY OF BRIDGE PAY ITEMS" SEE SHEET C-4A.
- 2. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS.
- 3. ALL BEARINGS SHALL BE FURNISHED BY THE CONTRACTOR.
- BID ITEM NO. 400-147 INCLUDES DUANTITIES FOR STANDARD IAND NON-STANDARDI PADS. 4. BID ITEM NO. 400-7 INCLUDES APPROACH SLAB GROOVING.
- S. DETAILS OF APPROACH SLABS AND THEIR PAYMENT ARE INCLUDED UNDER THE ROADWAY PLANS.

ALTERNATE DESIGN USING PRECAST PIERS:

CONTRACTOR DESIRING TO SUBNIT AN ALTERNATE DESIGN USING PRECAST CONCRETE PIERS SHALL PAY FOR ALL COSTS ASSOCIATED WITH THE REDESIGN INCLUDING REVIEW BY THE OWNERS ENGINEER ALL DOCUMENTS SHALL BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER.



() CLASS 5 APPLIED

SURFACE FINISH

5896

C-14

BX1-9

- I.FINISH IN ACCORDANCE WITH ARTICLE 400-15.2 OF THE CONSTRUCTION SPECIFICATIONS UNLESS
- 2. IN ADDITION TO SUPERSTRUCTURE SURFACES SHOWN IN DETAIL. EXPOSED VERTICAL SURFACES OF END BENT CHEEKWALL AND CAP SHALL RECEIVE A CLASS 5 APPLIED FINISH COATING."

TYPICAL SURFACE FINISH DETAILS



FINLEY MCNARY/JANSSEN SPAANS

Joint Venture

Finley McNary Engineers Inc 1391 Timberlone Road Suite 200 Tollahassee, Florida 32312-1721

Jonssen & Spoons Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

WIDPOINT BRIDGE GENERAL NOTES (I)

REVISIONS DATE DESCRIPTION DESCRIPTION BY DESCRIPTION JLS. 1/96 DK. BY CW.N. 1/96

FINLEY MCNARY/JANSSEN SPAANS

BX1-10

GENERAL .

1. TYPE IN GINDERS CONFORM TO AASHTO STANDARD GIRDERS OF SINILAR DESIGNATION. EXAMPLE: TYPE IV (30-OLDENOTES GINDER WITH 30 STRAIGHT LOW-RELAXATION STRANDS AND O DEPRESSED LON-RELAXATION STRANDS, SEE SHEETS C-82 THIRD C 81 FOR DETAILS

PRESTRESSED CONCRETE ALLOWABLE STRESSES

TEMPORARY STRESSES DEFORE LOSSES DUE TO CREEP AND SHITINKAGE AT THE TIME OF PHESTRESS TRANSFER.

COMPRESSION

LENSION

12 VE'ET TOP OF BEAM POUTER ISX OF DESIGN SPAN OF STRAIGHT STRAND GINDERS)

6 V'ci - ALL OTHER LOCATIONS 1ENSION

STRESSES AFTER LOSSES HAVE OCCURRED.

COMPRESSION COMPRESSION (AT END OF GIROLES)

N FOR CONTINUOUS GIRDERS OVER PIERS

PRESTRESSING STEEL

LOW RELEXACTION STRANDS-ASTM A416 . 1/2" (PHETENSIONING - AASHTO TYPE ID)

· O ECTIPRETENSIONING - MODIFIED TYPE VD

■ 0.60° IPOST - TENSIONING) # 270 XSI

ULTIMATE STRENGTH

0.80 F's - 216 KS1 IPOST - TENSIONING) MAXIMUM STRESS & JACKING

0.75 F's = 203 KSI IPRETENSIONING 070 F's = 189 KSI IANCHORAGEI AFTER ANCHORING

DESIGN MODULUS OF ELASTICITY

0.74 F's = 200 KSI IALONG TENDONI 28 DOO KSI - PRESTRESSING 26,500 KSI - POST-TENSIONING

0.375 INCH FRICTION COEFFICIENT 0.25

HORTAR LEAKAGE :

WOBBLE COEFFICIENT

MMY MORTAR LEAKAGE THAT OCCURS AND STAINS RESULTING FROM LEAKAGE SHALL BE REMOVED SO THAT BEAMS HAVE A UNIFORM APPEARANCE.

AT THE OPTION OF THE CONTRACTOR, OTHER TYPES, SIZES AND/OR CONFIGURATIONS OF STRANDS MAY BE USED IN LIEU OF THE STRANDING SHOWN IN THESE PLANS, CHECKED CALCULATIONS SHALL BE SUBMITTED SHOWING THE SUBSTITUTION MEETS THE FOLLOWING REQUIREMENTS:

0.0015

- 1. THE STRANDS WEET ALL THE REQUIREMENTS OF ASTW-A416 FOR THE GRADE OF
- 2. THE NET COMPRESSIVE STRESS IN THE CONCRETE DUE TO PRESTRESSING ACTING ALONE, AFTER ALL LOSSES, IS AT LEAST AS LARGE AS THAT PROVIDED BY THE STRANDING SHOWN ON THESE SHEETS.
- 3. THE ULTIMATE STRENGTH OF THE SUPERSTRUCTURE WITH THE PROPOSED STRANDING IS AT LEAST EQUAL TO THE ULTIMATE STRENGTH OF THE ORIGINAL DESIGN.
- 4. THE PROPOSED STRANDING COMPLIES IN ALL RESPECTS WITH THE FOOT
- "STRUCTURES DESIGN GUIDELINES".

FINISH :

- 1. THE TOP SURFACE OF THE BEAM SHALL BE CLEAN, ROUGH FLOATED, AND THEN SCRUBBED TRANSVERSELY WITH A COARSE WIRE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE OF ALL BUPLITUDE OF APPROXIMATELY ("FOR BONDING.
 Z. THE SIDES AND BOTTOM SURFACE OF ALL BEAMS LEXCEPY THE EXTERIOR SIDE OF THE
- BEAMS WHERE A CLASS 5 FINISH WILL BE APPLIEDISHALL RECEIVE A CLASS 3 SURFACE

SUBMITTALS :

1. THE SPECIFICATIONS STIPULATE THE CONDITIONS FOR WHICH ONLY A CONSTRUCTION SUBMITTAL IS REQUIRED. IF EACH AND EVERY CONDITION CAN NOT BE MET, THEN A FORMAL SHOP DRAWING SUBMITTAL IS REQUIRED.

STRAND DETENSIONING :

STRAND DETENSIONING SHALL BE BASED UPON THE FOLLOWING PRIORITY,

- FROM FIRST TO LAST: 1. TOP DORMANT STRANDS IBARS NO
- 2. FULLY BONDED STRANDS
- 3. PARTIALLY DEBONDED STRANDS

FORMS AND PALLETS :

DATE

ALL BEAMS SHALL BE CAST ON CONCRETE BASED PALLETS AND IN WETAL FORMS. THE SIDES AND BOTTOM OF THE BOTTOM FLANGE OF THE HAUNCH SEGMENT OF THE MAIN SPAN UNIT WAY BE FORMED WITH WOOD FORMS WITH A HIGH DENSITY FORM LINER.

DESCRIPTION

REVISIONS

DATE

DESCRIPTION

HANDLING +

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ALL BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES. ALL BEAMS SHALL BE PICKED UP FROM POINTS LOCATED A MAXIMUM DISTANCE OF 3 FT. FROM THE ENDS OF THE BEAMS, EXCEPT FOR THE OF THE MAIN SPAN UNIT, WHOSE PICKUP POINTS

ARE SHOWN ON SHEET NO. C-95A.

STORAGE AND TRANSPORTATION .

ALL BEAMS SHALL BE STORED ON ADEQUATE DUNNAGE AND SUPPORTED DURING TRANSIT WITHIN 18"FROM ENDS OF BEAMS. EXCEPT FOR THE WAIN SPAN UNIT, WHICH SHALL BE STORED AND

1. ALL BEAMS SHALL BE A MINIMUM OF 28 DAYS STRENGTH AT TIME OF ERECTION.

2. THE CONTRACTOR SHALL SATISFACTORILY SECURE, ON DRACE ALL BEARS PHILOR TO THE PLACEMENT OF THE DECK AND/OR DIAPHRAGMS.

STRAND EXTENSION :

ALL STRANDS SHALL EXTEND ZI/T BEYOND ENDS OF BEAMS.

CONCRETE :

REFER TO TABLE OF BEAM VARIABLES ON SHEETS C-84 THIS C-RT FOR THE CLASS OF CONCRETE, 28-DAY STRENGTH IT'ELAND CYLINDER STRENGTH AT TRANSFER OF THE TENSIONING LOAD IF CLIFOR THE BEAMS IN SPANS I THRU 31

FOR THE NAIN SPAN UNIT AND HIGH LEVEL APPROACH UNIT BEAMS THE CONCRETE IS AS FOLLOWS

CLASS V

28-DAY STRENGTH IF & - 6.500 PSI RELEASE STRENGTH IF cit . 5,000 PSI

CURING 1

IN ADDITION TO THE CURING DESCRIBED IN STANDARD SPECIFICATION 450-8.6.3. THE TOPS OF THE BEAMS SHALL BE COVERED WITH CURING TARPS FOR 10 DAYS.
AS SPECIFIED IN SPECIAL PROVISIONS SECTION 45DA MEMBRANE CURING COMPOUND WILL NOT BE PERMITTED.

REINFORCING STEEL :

ALL REINFORCING STEEL SHALL BE A.S.T.M. A-615 GRADE 60.

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FINLEY MCNARY/JANSSEN SPAANS

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THE COST OF ALL CONCRETE, REINFORCING STEEL, SPLICER INSERTS, PRE-TENSIONED STRANDS POST-TENSIONING MATERIALS EMBEDGED IN THE BEAM CONCRETE. BEARING PLATE ASSEMBLIES AND INCIDENTAL ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE AS FOLLOWS: LOW LEVEL APPROACHES - PRESTRESSED BEAMS (TYPE IV) IBID ITEM NO. 450-1-31 HIGH LEVEL APPROACHES - PRESTRESSED BEAMS (SPECIALIBID ITEM NO. 450-1-7) NAIN SPAN UNIT - PRESTRESSED BEAMS (SPECIAL - SEGMENTAL) (BID ITEM NO. 450-1-11 THE COST OF THE TEMPORARY SUPPORTS, STRONG BACKS AND TEMPORARY BRACING NEEDED FOR CONSTRUCTION OF THE WAIN SPAN UNIT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRESTRESSED BEAMS ISPECIAL-SEGMENTALIBID ITEM NO. 450-1-11).

DECK FORMS

THE CONTRACTOR WILL BE PERMITTED TO SUSPEND DECK FORMS FROM BOLTS THROUGH HOLES IN THE TOP FLANCE OF THE BEAMS, THESE HOLES SHALL BE LOCATED AT LEAST ONE FOOT FROM THE EDGE OF THE FLANGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPACING BOLTS SUCH THAT THERE WILL BE NO STRUCTURAL DAMAGE TO THE BEAMS, THE BOLT HOLES SHALL BE SHOWN ON THE GIRDER SHOP DRAWINGS.

LIST OF FREQUENTLY USED ABBREVIATIONS

AVERAGE DAILY TRAFFIC ALLOWABLE STRESS DESIGN ASD BASELINE INC BEARING CAST-IN-PLACE CLR -- CLEAR - CONSTRUCTION JOINT CJ - DECX JOINT SEAL EB - END BENT - EACH FACE FOR - FOGE OF PAVEMENT ES - EACH SIDE - EACH WAY - FIELD BEND FF - FAR FACE FFAS -- FRONT FACE OF APPROACH SLAB - FRONT FACE OF BACKWALL
- FRONT FACE OF RETAINING WALL FFRW - FACTOR OF SAFETY COR -- GIRDER - INSIDE FACE - LOW WEMBER ELEVATION - LENGTH OF VERTICAL CURVE - MINIMUM HORIZONTAL CLEARANCE - MINIMUM VERTICAL CLEARANCE - WEAR FACE - NOT IN CONTRACT - OUTSIDE FACE - OWNER FURNISHED MATERIAL - PROFILE GRADE - PROFILE GRADE LINE - POINT OF ACTUAL MINIMUM VERTICAL CLEARANCE - ROADWAY SBL - SLOPE BREAK LINE - SHOULDER - STAY-IN-PLACE TC - TANGENT TO CURVE AT INTERSECTION POINT TS - TANGENT TO SPIRAL AT INTERSECTION POINT - TYPICAL UNO - UNLESS NOTED OTHERWISE - WORK LINE

FINLEY MCNARY/JANSSEN SPAANS

REFERENCED TO
DIRECTION OF STATIONING

Joint Venture

- WORK POINT

- BACK 7

RIGHT

CORROSION INHIBITING

- LEFT

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721

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BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE GENERAL NOTES (2)

BX1-11

DUCTS :

POST-TENSIONING DUCTS SHALL BE GALVANIZED WETAL CORRUGATED SEMI-RIGED CONDUIT WITH 24 GAGE WALL THICKNESS AND WEET THE FOLLOWING REQUIREMENTS:

- 1. THE DUCTS SHALL BE TIED TO BARS AT A MAXIMUM INTERVAL OF 2 FEET TO PREVENT DISPLACEMENT OF THE DUCTS DURING CONCRETE CASTING.
- 2. DUCTS SHALL HAVE GROUTING VENTS AT EACH INTERIOR SUPPORT.
- 3. AFTER INSTALLATION, THE ENDS OF THE DUCTS SHALL BE SEALED AT ALL TIMES TO PREVENT ENTRY OF WATER AND DEBRIS.
- 4. THE DUCT PLACEMENT TOLERANCE SHALL BE * 1/4 "IN THE HORIZONTAL DIRECTION AND * 1/4" IN THE VERTICAL DIRECTION.
- 5. A 3 FOOT LONG * TRANSITION PIECE FABRICATED FROM SHEET METAL OR OTHER APPROVED MATERIAL SHALL CONNECT EACH POST-TENSIONING ANCHORAGE TO THE ADJACENT DUCT. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING COMPLETE DETAILS OF THESE TRANSITIONS TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL NOT SET THE BEAM SIDE FORMS IN PLACE UNTIL THE ENGINEER HAS VISUALLY INSPECTED AND APPROVED THE DUCT PROFILE AND REINFORCING CAGE.
- 7. BEFORE THE BEAMS ARE TRANSPORTED TO THE JOB SITE, THE CONTRACTOR
 SHALL DEMONSTRATE THAT THE DUCTS ARE NOT BLOCKED BY PASSING
 THROUGH THEM A TORPEDO AS SPECIFIED IN B460-B.2. THE POST-TENSIONING
 ANCHORAGE TRUMPET SHALL BE OF SUFFICIENT SIZE TO ALLOW PASSAGE OF THIS TORPEDO.
- 8. THE DUCT SPLICE SHALL BE DESIGNED TO FIT BETWEEN THE BEAM STIRRUPS AT A 6 SPACING AND SHALL NOT INFRINGE ON THE I 3/4 "COVER. STIRRUP SPACING WAY BE ADJUSTED UP TO 4", PROVIDED THE TOTAL NUMBER OF STIRRUPS WITHIN 3 FEET ON EITHER SIDE OF THE SPLICE IS THE SAME AS REQUIRED BY THE PLANS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED DESIGN OF THE DUCT. A SUGGESTED CONCEPTUAL DESIGN OF THE DUCT SPLICE IS GIVEN ON SHEET C-95A. BUT THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE DETAILED DESIGN OF THE DUCT SPLICE. THE DUCT AND DUCT SPLICE SHALL BE DESIGNED TO WEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS B460 AND THE DUCT CRUSHING TEST AND THE DUCT SPLICE TEST DESCRIBED BELOW:

DUCT CRUSHING TEST :

CAST THE 6'X I'X I'CONCRETE SPECIMEN WITH A SECTION OF DUCT AS SHOWN AT RIGHT. USE CONCRETE COMPARABLE TO THAT TO BE USED IN THE BEAM ISTRENGTH AND SLUMP) AND VIBRATE INTERNALLY. AFTER THE CONCRETE HAS SET UP, MEASURE THE INSIDE OF THE DUCT WITH CALIPERS AND CALCULATE THE INSIDE AREA OF THE DUCT EXCLUDING ANY CORRUGATIONS. AFTER CASTING THE CONCRETE, THE INSIDE OF THE DUCT SHALL NOT BE CONCAVE, AND THE INSIDE AREA SHALL BE AT LEAST 6.25 SOUARE INCHES.

DUCT SPLICE TEST :

CAST A SPECIMEN SIMILAR TO THAT REQUIRED FOR THE DUCT CRUSHING TEST. EXCEPT SPLICE THE DUCT WITHIN THE SPECIMEN. AS SHOWN AT RIGHT. AFTER CASTING THE CONCRETE. THE INSIDE AREA OF THE DUCT SHALL BE AT LEAST 6.25 SQUARE INCHES AND ABSOLUTELY NO CONCRETE WORTAR MAY LEAK THROUGH THE SPLICE.

UPON COMPLETION OF THE DUCT CRUSHING AND DUCT SPLICE TESTS. THE CONTRACTOR SHALL SUBMIT SHOP ORAWINGS OF THE DUCT AND DUCT SPLICE TO THE ENGINEER FOR APPROVAL THESE SHOP DRAWINGS SHALL SHOW COMPLETE DIMENSIONS OF THE DUCT AND DUCT SPLICES. A THOROUGH SEQUENCE OF INSTALLATION OF THE DUCT SPLICE, COMPLETE TEST RESULTS AND A 6'LDNG SAMPLE OF THE DUCT WITH A SPLICE IN THE MIDDLE. THE DUCT SHALL NOT BE SHIPPED TO THE PRECASTER UNTIL THIS SUBMITTAL IS APPROVED BY THE ENGINEER.

POST-TENSIONING PERSONNEL:

THE PERSON IN FULL-TIME RESPONSIBLE CHARGE OF THE POST-TENSIONING OPERATION
SHALL HAVE A MINIMUM OF THREE YEARS OF FULL-TIME EXPERIENCE IN POST-TENSIONING.
DOCUMENTATION OF THIS EXPERIENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVA CL

SHOP DRAWINGS :

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING COMPLETE DETAILS OF THE POST-TENSIONING SYSTEM TO THE ENGINEER FOR APPROVAL THE CONTRACTOR SHALL SUBMIT TENDON STRESSING DETAILS FOR APPROVAL BY THE ENGINEER. THESE DETAILS SHALL INDICATE JACKING FORCES, THE SEQUENCE OF STRESSING, CALCULATED EXTENSIONS AT EACH JACK, FRICTION COEFFICIENT AND ANCHOR SET LOSS.

JACKING FORCE :

ALL TENDONS SHALL BE STRESSED FROM BOTH ENDS.
THE JACKING FORCE REQUIRED AT BOTH ENDS OF EACH TENDON BEFORE
ANCHOR SET IS 46.9 KIPS PER STRAND.

PROCEDURES TO AVOID BLOCKED DUCTS :

THE CONTRACTOR SHALL PERFORM THE FOLLOWING PROCEDURES TO AVOID BLOCKED POST-TENSIONING DUCTS:

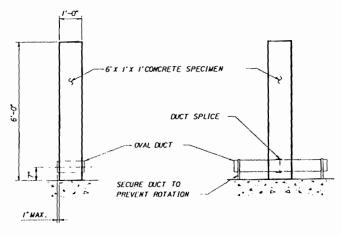
- I. BEFORE TRANSPORTING BEAM TO JOB SITE: SEE DUCT NOTE NO.7.
- 2. AFTER CLOSURE POURS: OURING OR IMMEDIATELY AFTER EVERY CLOSURE POUR IS CAST, THE CONTRACTOR SHALL DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER THAT THE DUCTS ARE NOT BLOCKED BY PASSING THROUGH EACH DUCT AN OVAL TORPEDO AS DESCRIBED IN DUCT NOTE NO.7. THE CONTRACTOR SHALL COMPLETE THIS DEMONSTRATION BEFORE THE CLOSURE POUR CONCRETE HAS TAKEN ITS INITIAL SET. THE CONTRACTOR WAY PROPOSE AN ALTERNATE METHOD FOR APPROVAL BY THE ENGINEER.
- 3. AFTER GROUTING TENDONS: DURING OR IMMEDIATELY AFTER GROUTING THE TENDONS FOR THE FIRST STAGE POST-TENSIONING, THE CONTRACTOR SHALL FLUSH THE REMAINING DUCTS WITH POTABLE WATER TO REMOVE ANY GROUT THAT MAY HAVE LEAKED INTO THE EMPTY DUCTS. DURING OR IMMEDIATELY AFTER THIS FLUSHING OPERATION. THE CONTRACTOR SHALL DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER THAT THE EMPTY DUCTS ARE NOT BLOCKED BY PASSING THROUGH THEM AN OVAL TORPEDO AS DESCRIBED IN DUCT NOTE NO. 7. THE CONTRACTOR SHALL COMPLETE THE FLUSHING OPERATION AND THE DEMONSTRATION BEFORE THE GROUT HAS TAKEN ITS INITIAL SET.

PAYMENT

BASIS OF PAYMENT FOR POST-TENSIONING TENDONS SHALL BE AS DEFINED IN SPECIAL PROVISIONS B460-14.1. THE COST OF THE DUCT CRUSHING TEST AND DUCT SPLICE TEST SHALL ALSO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR POST-TENSIONING TENDONS.

ALTERNATE DESIGN :

ALTERNATE PRESTRESSING AND POST-TENSIONING CONFIGURATIONS ARE ALLOWED BUT WILL BE CONSIDERED A REDESION. SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED BY THE SPECIALTY ENGINEER FOR APPROVAL, ALL REVIEW COST OF REDESIGN BY THE ENGINEER OF RECORD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



DUCT CRUSHING TEST

DUCT SPLICE TEST

DETAILS OF DUCT TESTS

AADRO Whay 96

FINLEY MCNARY/JANSSEN SPAANS

Joint Venture

Finley McNary Engineers, Inc. 1391 Timosriane Road Suite 200 Talanasses, Flyrida 32312-1721 Johanen N. Spoons Engineers, Inc. 2825: East 36th Street Indianapaks, Indiana 48270

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION MIDPOINT BRIDGE GENERAL NOTES (3)

DESCRIPTION UN!T QUANTITY IILH MO. CY 400-2-4 CONCRETE CLASS II (SUPERSTRUCTURE) 16626.40 400-3-20 CONCRETE CLASS III (SEAL) CY 3887.14 400-4-5 CONCRETE CLASS IV (SUBSTRUCTURE) CY 6864.10 CONCRETE CLASS IV (MASS) (SUBSTRUCTURE) 400-4-25 CY 17760.64 400-7-0 BRIDGE FLOOR GROOVING SY XX 60899 # 400-8-4 CONCRETE CLASS V (SUPERSTRUCTURE) (CLOSURE POURS/DIAPHRAGMS) CY 101.20 COMPOSITE NEOPRENE PADS 369.30 400-148-1 TRAFFIC RAILING (F&I) (BARRIER) UF 14343.3 # REINFORCING STEEL (SUPERSTRUCTURE) 415-1-4 LB 3390601 415-1-5 REINFORCING STEEL (SUBSTRUCTURE) 4020189

450-1-3 PRESTRESSED BEAMS (TYPE IV)

PRESTRESS BEAMS ISPECIAL

PILING FURNISHED (PRESTRESSED CONCRETE)(14 SO.)

455-3-2 PILING FURNISHED (PRESTRESS CONCRETE) (18"50")

455-3-4 PILING FURNISHED (PRESTRESS CONCRETE) (24" SO#)

455-4-2 PILING DRIVEN (PRESTRESSED CONCRETE)(18" SOJ

455-4-4 PILING DRIVEN (PRESTRESS CONCRETE) (24'50)

455-17-2 PILE SPLICES (18")

455-137-0 TEST LOAD (DYNAMIC)

455-17-4 PILE SPLICES (247)#

455-140-12 TEST PILES FURNISHED (18" SO#)

455-140-14 TEST PILES FURNISHED (24° SO#)

POLYETHYLENE SHEETING

EXPANSION JOINT SEAL ISTRIP ELASTI #

460-111-1 POST TENSIONING TENDONS (LONG SUPERSTRUCTURE STRAND) #

EXPANSION JOINT SEAL (MODULAR)

TREATED TIMBER STRUCTURAL

CONCRETE BARRIER WALL IMEDIANI

ACCESS LADOER AND PLATFORMS (STEEL) "

NOTE: " IDENTIFIES ITEMS NORMALLY REQUIRING SHOP DRAWINGS - CONTRACTOR SHALL DETERMINE OTHER ITEMS

BRIDGE DRAINAGE SYSTEM

NAVIGATION LIGHTS .

XX INCLUDES 331 JB SY OF APPROACH SLABS.

REQUIRING SHOP DRAWING.

455-141-12 TEST PILES DRIVEN (18"SO)

455-141-14 TEST PILES DRIVEN (24'SO)

PILING DRIVEN (PRESTRESSED CONCRETE) 114 SOJ

450-1-11 PRESTRESS BEAMS ISPECIAL-SEGMENTAL

450-1-7

455-3-1

459-71

460-7-5

506 - 1

510-1-A

BATE

THE OWNER ELECTS TO USE THIS ALTERNATE. THE SUBSTRUCTURE CONCRETE QUANTITIES IDE/AS=0

ITEM MO.

DESCRIPTION

UNIT

QUANTITY

400-4-5

CONCRETE CLASS IV (SUBSTRUCTURE)

CY 2458.34

400-4-5A

CONCRETE CLASS IV CORROSION INHIBITING (SUBSTRUCTURE)

CY 4405.76

980.ECT NO. SHEET NO.
5896 C-4A

BX1-12

MDA	20
6 MAY	90

FINLEY MCNARY/JANSSEN SPAANS

o Joint Venture

Finley McNary Engineers, Inc 1391 Fimbertone Road Suite 200 Tallahassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapalie, Indiana 46220

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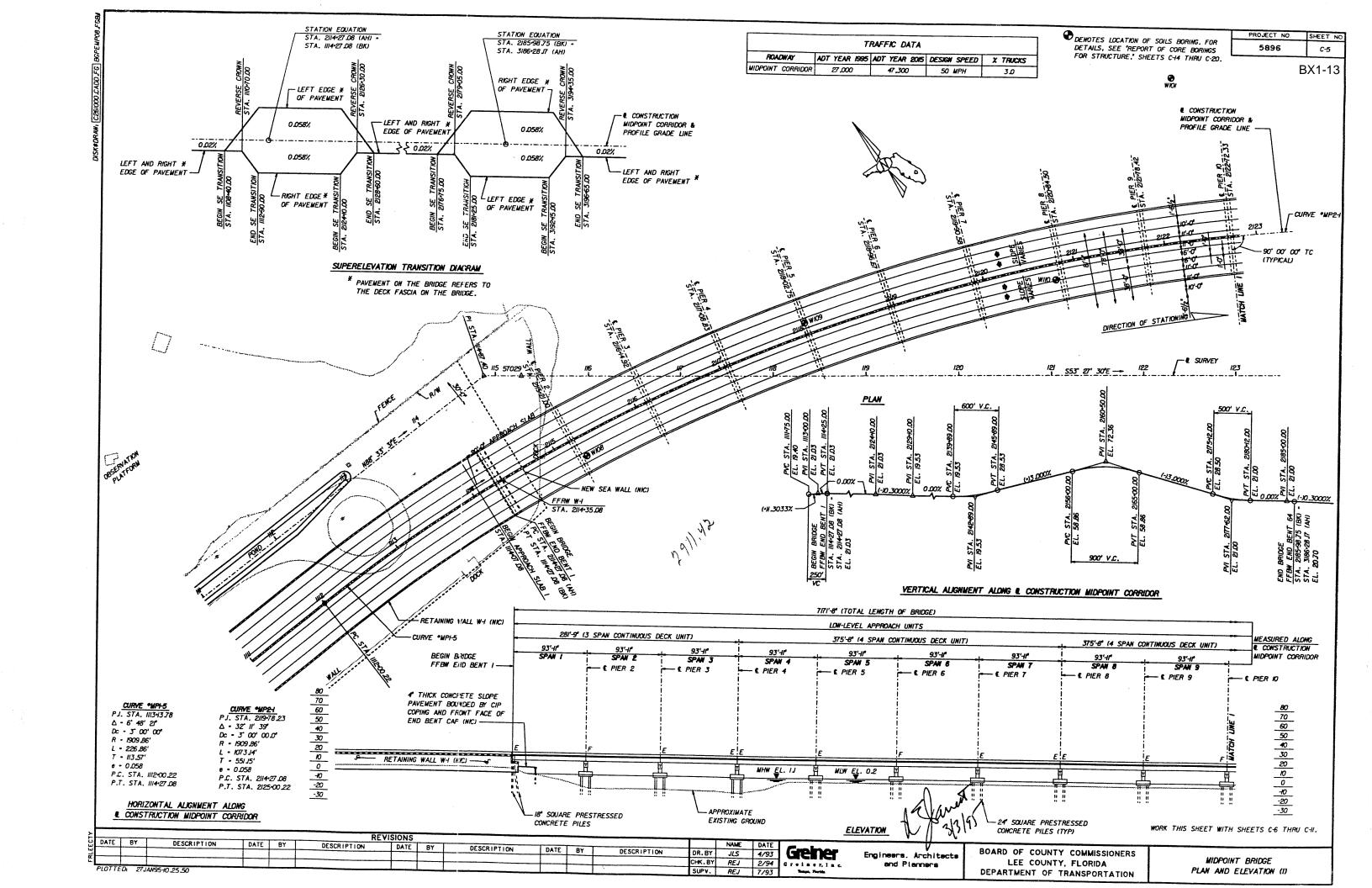
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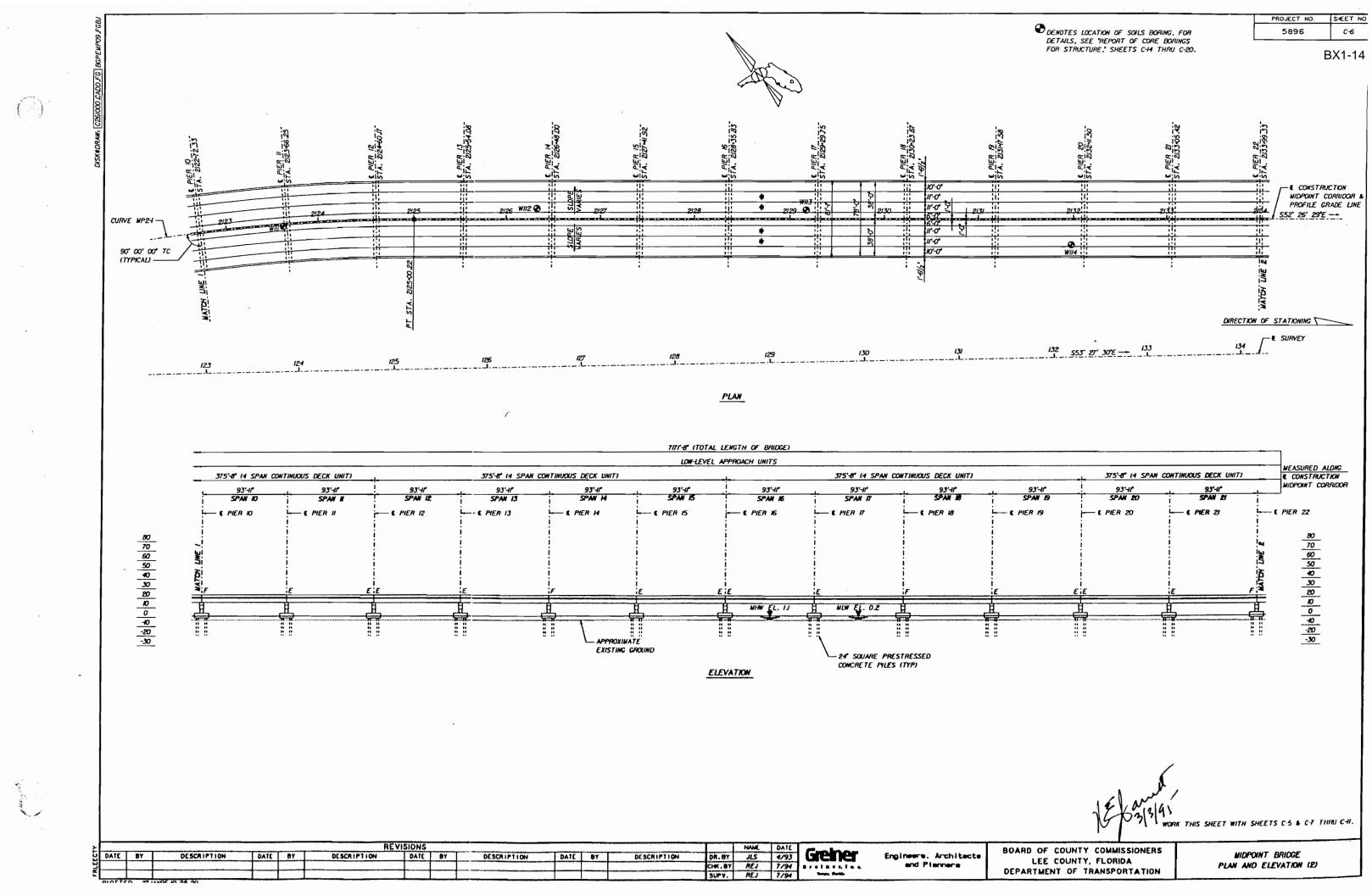
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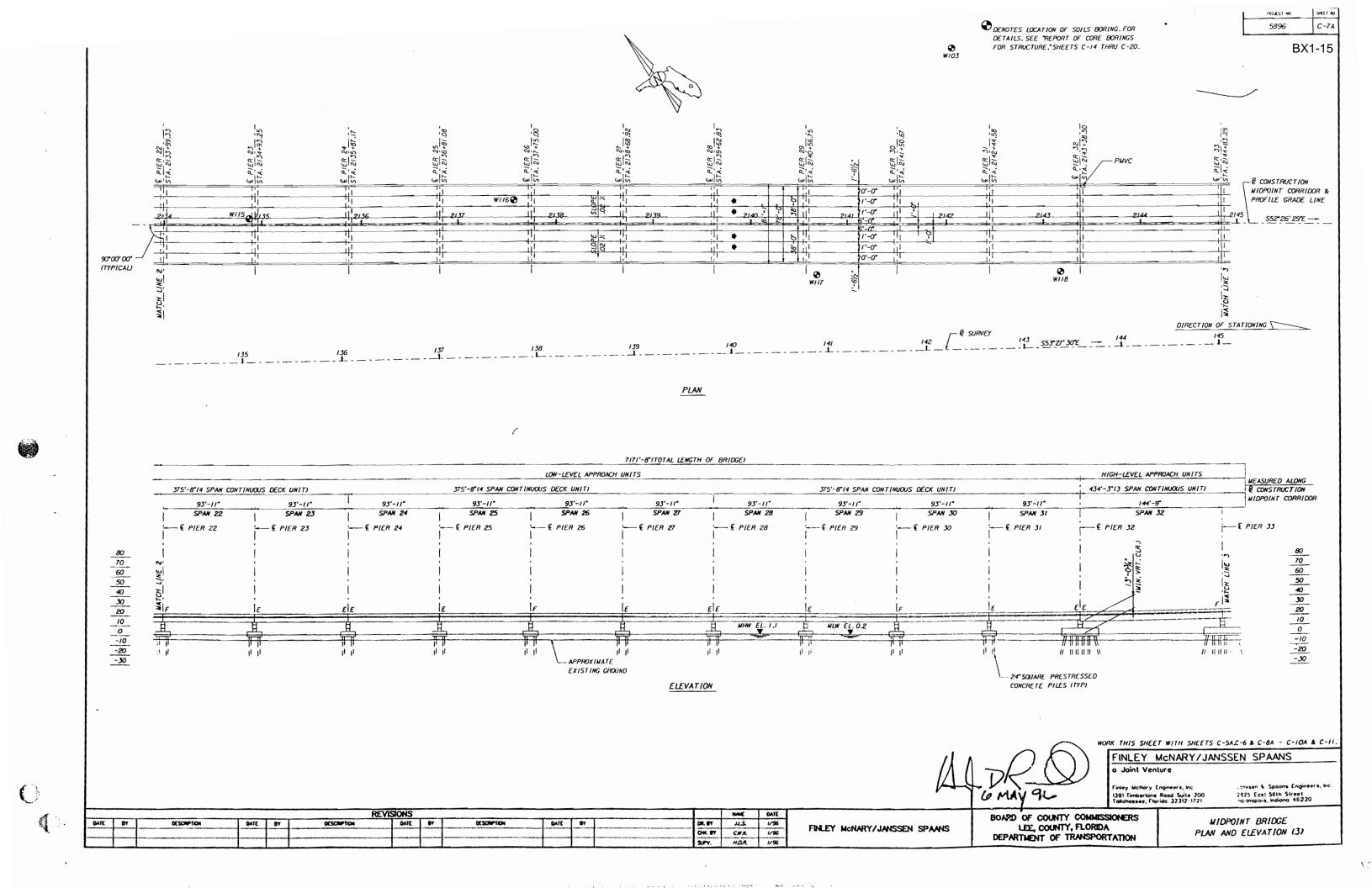
FINLEY MONARY/JANSSEN SPAANS

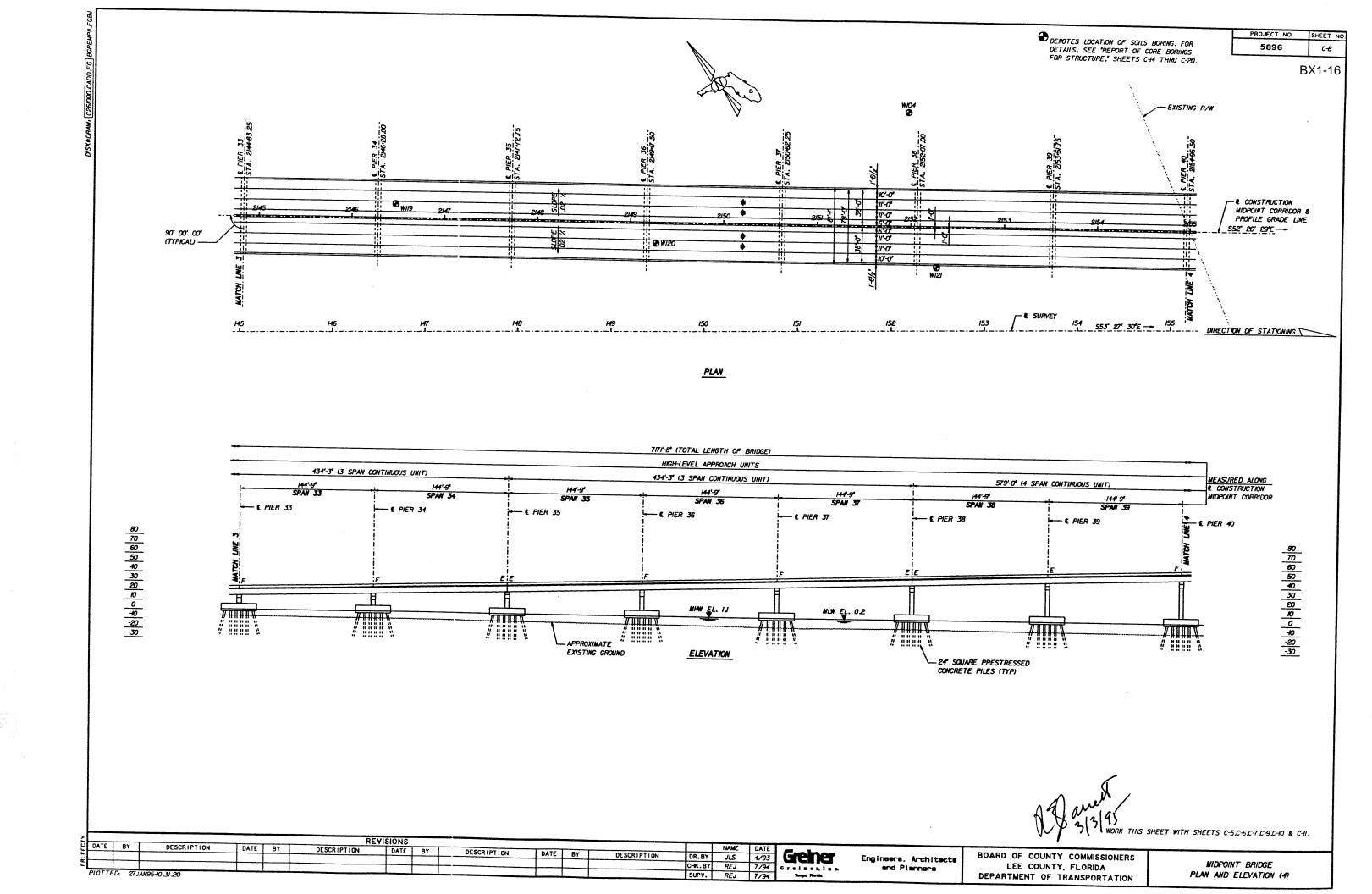
BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

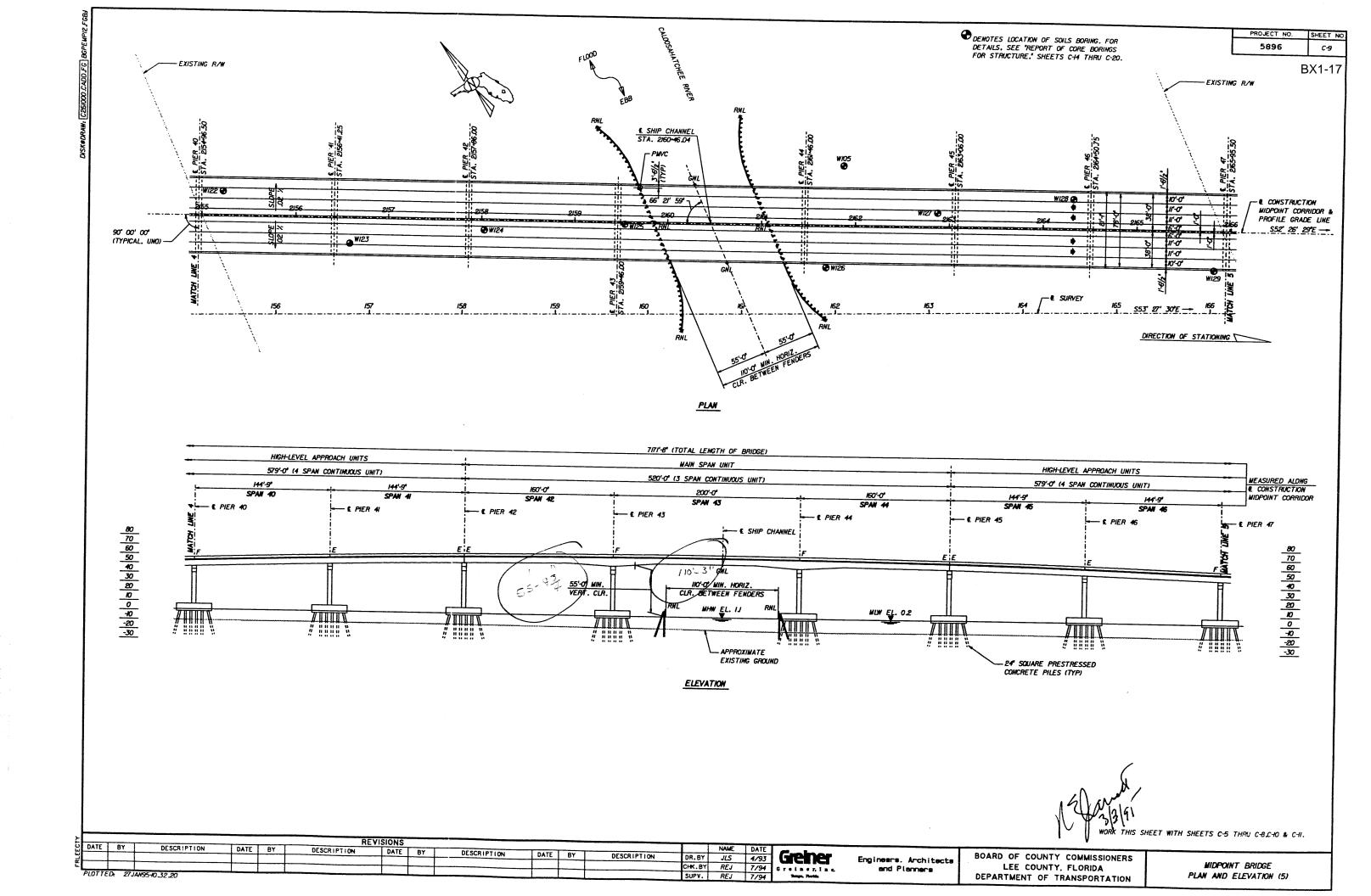
MIDPOINT BRIDGE SUMMARY OF ESTIMATED OUANTITIES

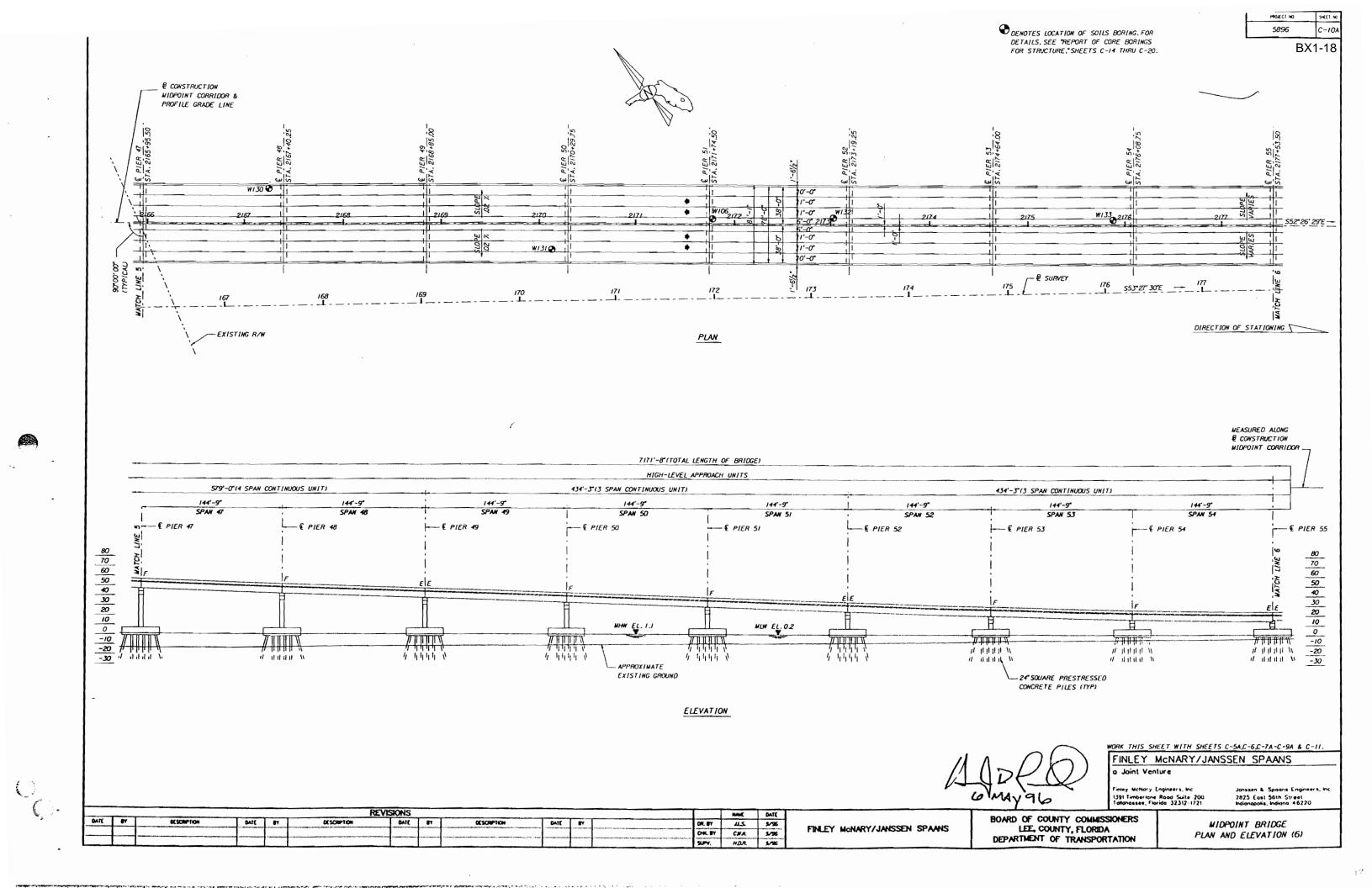


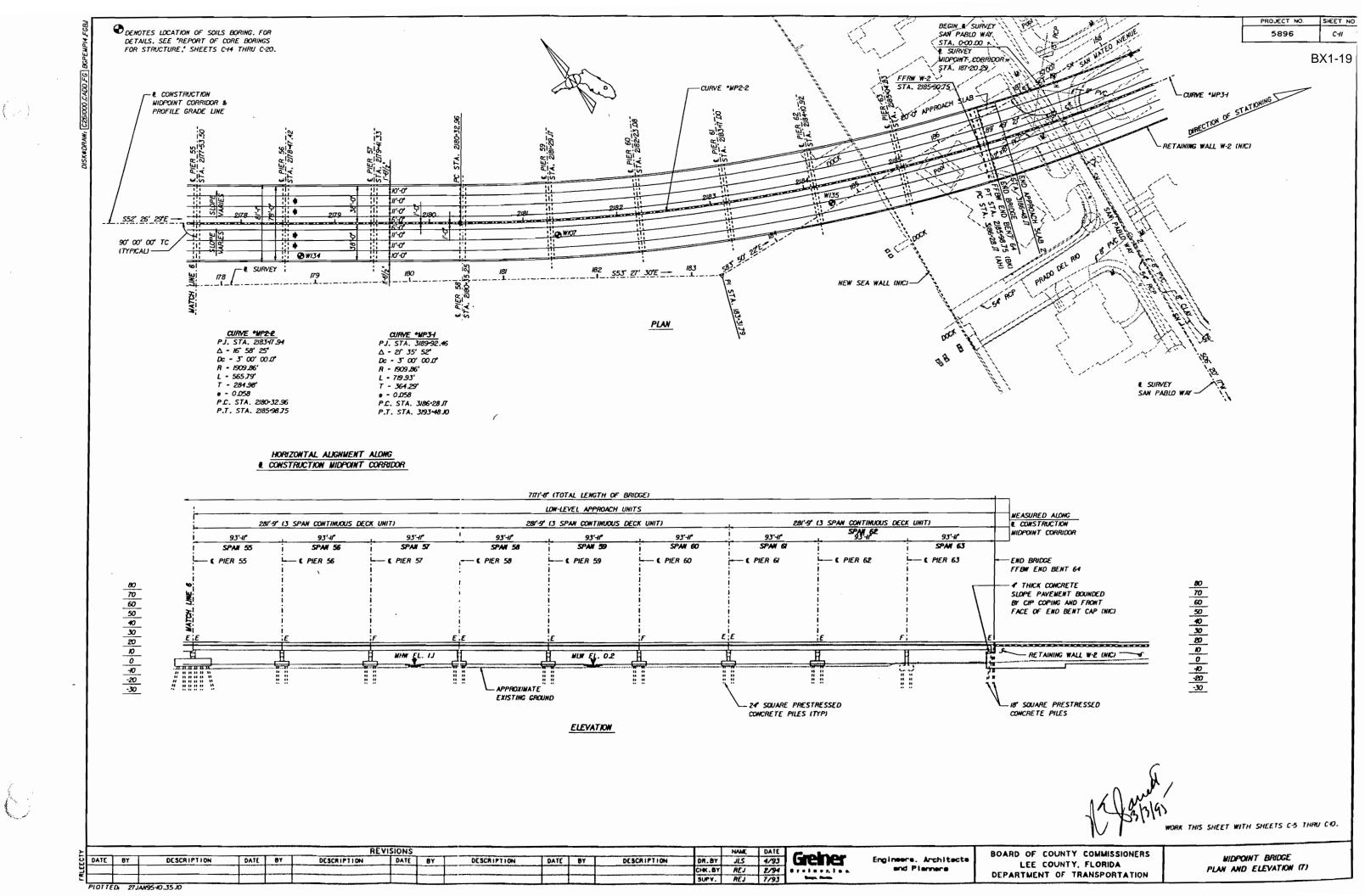


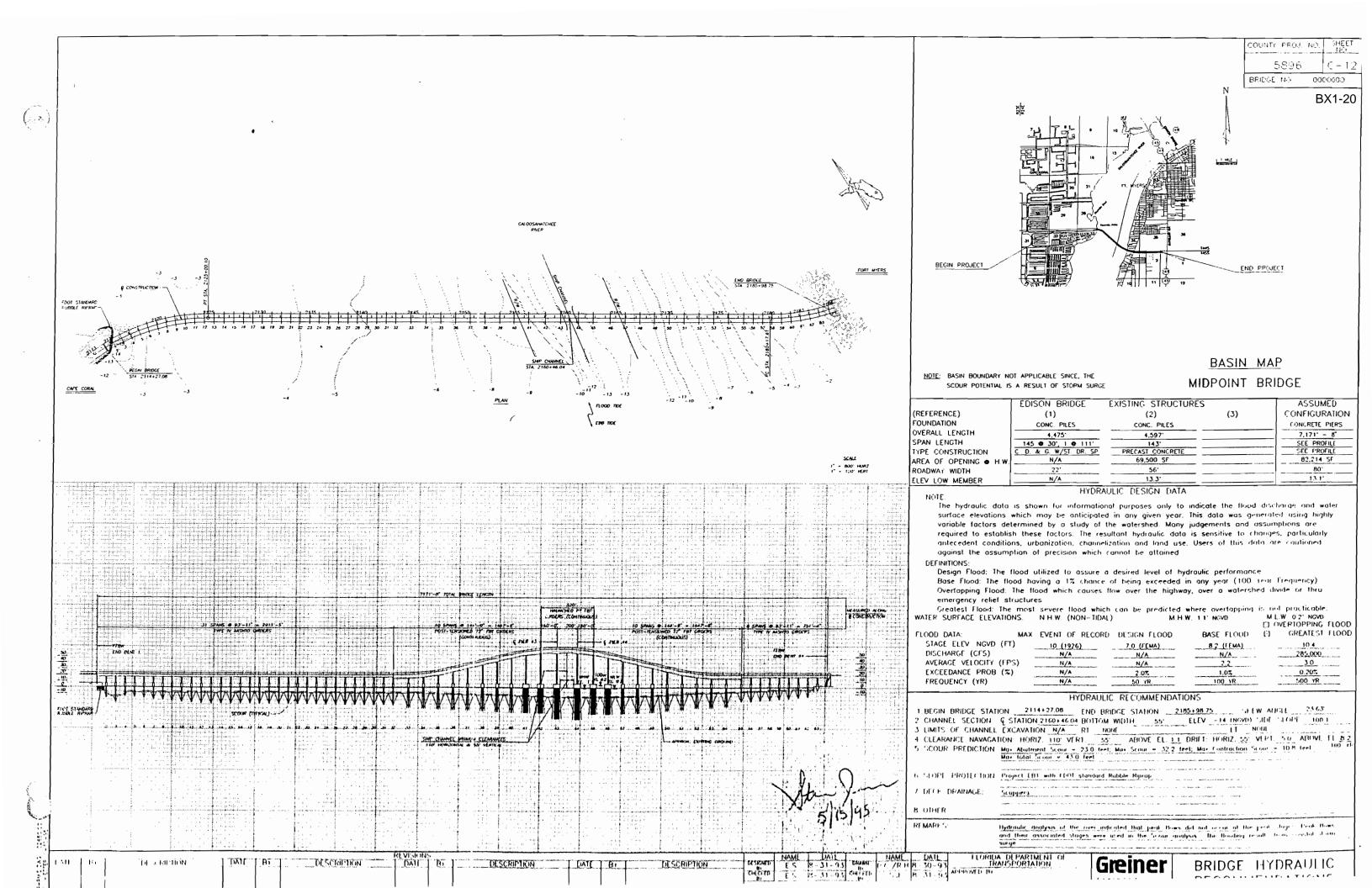


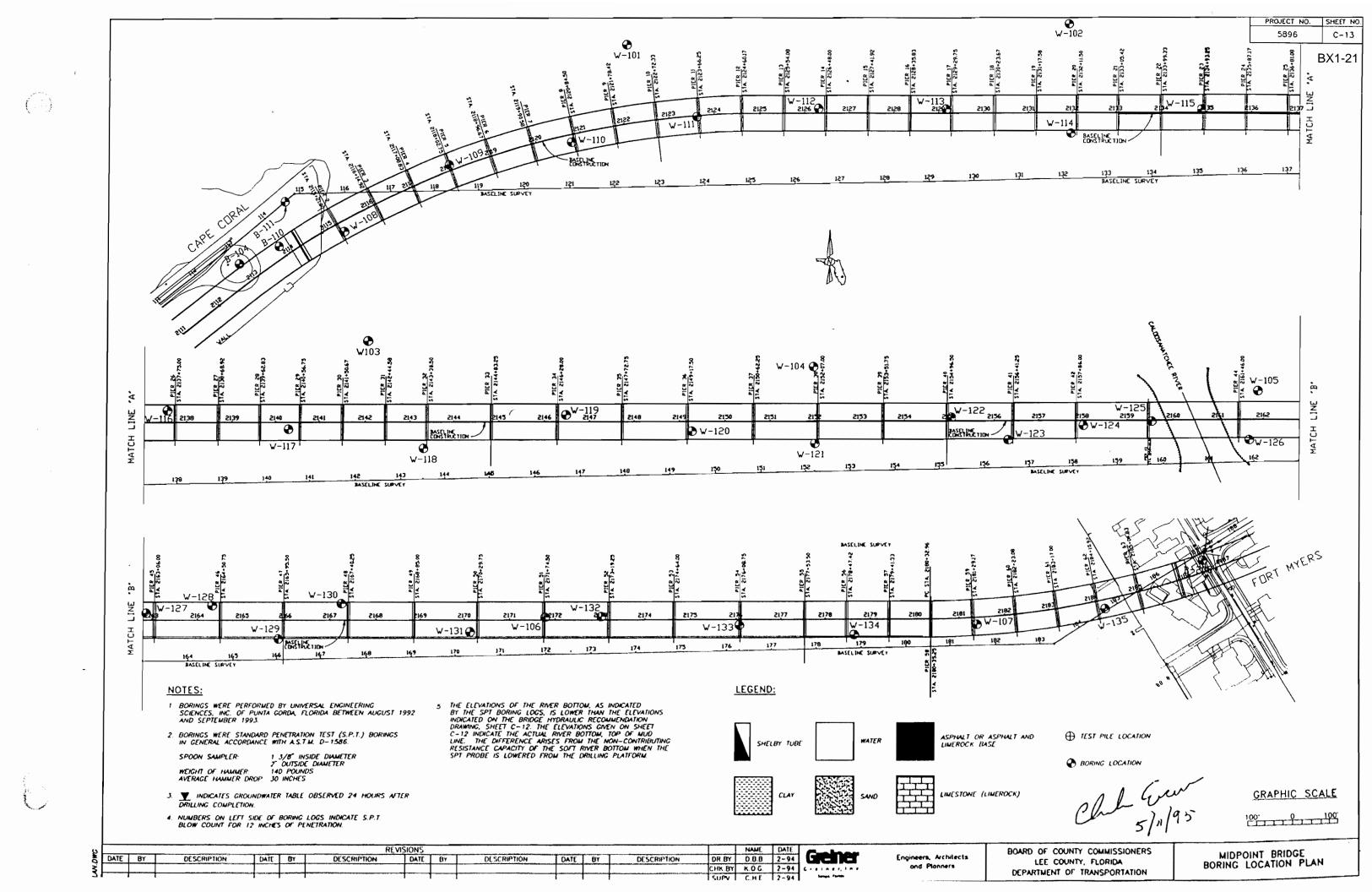












PROJECT NO. SHEET NO. 5896 C-14

BX1-22

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

N 826. E 604.		N 826,700 E 884,775	N 828. E 684.		N 826,62 E 683,17		N 828,50 E 683,42		N 826. E 685,	
24 - 3-14	GRAY FINE SAND WITH SHELL FRAGMENTS	13 20 TAM, FINE SAND WITH 32 30 WITH LAYER OF CLAY TOTAL TIME SAND WITH	AT 4 FEET		V		T	y		
15-15-16	DAIN BROWN FINE SHID WITH SET MO ORGANE JORN, SETY, FINE SHID WITH CONENTED SAND WID SHELL	SOUND FROM PEATY, SHELL FRAGMONTS	THE SWO	MATER	25 - (7)(2)	min sau noces	9-7-7	NATER GREDISH-CRAY, SLTY, FINE SAND, WITH SHELL FRAGMENTS	2 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	GRAY AND BROWN, FINE SAND WITH S GRAY AND BROWN, CLAYEY, FINE SAN
5 - 8	mount	,	1- >:\\ 1- \	CREDISH-CRAY, FINE SAND WITH SLT AND SHELL FINGMENTS	15 8 7 Y	SHELL FRAGMENTS CRAY, SILTY, FINE SAND WITH PHOSPHATE	10 4	GRAY, SETY, FINE SAND WITH CLAY AND PHOSPHATE FRAGMENTS	0; 1,2	
7-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	CRIX, SUTX, DINE SIMO, MITH SHELL.	CAN', SLTY, THE SW				AND SHELL PRAGMENTS GRAY AND BROWN, PINE SAND WITH SILT AND CENERATED SAND	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		2-4-3-3	LIGHT GRAY, SILTY, FINE SAND MITH CLAY AND SHELL FRACMENTS
2-	GREDNISH-GRAY, SULTY, THE SAND WITH CLAY	7 - UGH BROWN TO GRE) - 100 mg/m	CRAY, SETY, FINE SAND WITH CLAY, COMENTED SAND AND SHELL FRACMENTS	7-153	SRT AND CEMENTED SAND GRAY AND BROWN TO GREENISH—GRAY, SRTY, THE SAND WITH CLAY	2-130	CHAY NO CHEENISH-CHAY, SLIY, FINE SAND WITH CLAY AND SPELL FRACMENTS	- 100 mg/s	LIGHT BROWN, CLAYEY, FINE SAND
, 17 (5) 7-	CREDIESH-CRAY, CLAYEY, FINE SAND	CRETHISH-CRAY CLAY	J 24	CREDIFSH-GRAY, CLAYEY, FINE SAMO	1-			GREENISH-GRAY, CLAYEY, FINE SAMO	7-	
<u>, ,-</u> }=	CHECKSH CONF CAN WITH	S - CARDING-CAN, CLAN WITH SHELL FRACHONT				GREINISH-GRAY, CLAYEY, FINE SANO	6-		6-	CREENISH-CRAY CLAYEY, FINE SAND, WITH SHELL FRAGMENTS
o		10 - 27 - 27 - 27 - 27 - 28 - 27 - 28 - 27 - 28 - 28	6-000 6-000	GREENISH-GRAY, SANOY, CLAY		CREENISH-GRAY, SAMOY, CLAY		GREENISH-GRAY, SANDY CLAY GREENISH-GRAY, CLAYEY, FINE SAND	o-	CREENISH-GRAY, CLAYEY, FINE SAND WITH CLAY, CENEVITED SAND, PHOSPHA AND SHELL FRACMENTS
22-	GHEDISH-GRAY, SLTY, FINE SAMO WITH PHOSPHATE AND SHELL	40 - GREDISH-GRAY, CLAY		GREENISH-CRAY, SATY, FINE SAND BITH CLAY AND PHOSPHATE FRACMENTS		GREEN'SH-GRAY, SILTY, FINE SAND WITH CLAY AND PHOSPHATE FRACULOUTS	20	CREENISH-CRAY, SILTY, FINE SAND WITH CEMENTED SAND AND PHOSPHATE PRACMENTS	30-	- UCHT CRIY, SILTY, FINE SAND WITH CILY, COLUMNO SHELL FRIGHTS
18 - 22	FRACMENTS	34 - STATE SAID WITH SHELL FRACHOUTS	41-23	GREDNISH-CRAY, FINE SAND WITH CEMENTED SAND AND SHELL FRACMONTS	л- л-	CREENISH-CRAY, SILTY, FINE SAND WITH COMPITED SAND AND SHELL FRACMENTS	45-		y2-	
15 -	Моск	52 - CONTROLL FRACMENTS 52 - CONTROLL FRACMENTS 52 - CONTROLL FRACMENTS		CREDISH-CRUY, THE SUID WITH SAT AND CEMBITED SAND	140	-	163	CREENISH—CRAY, FINE SAND WITH SLT. PHOSPHATE, AND SHELL FRACMENTS	85-	LIGHT GRAY TO GREENISH-GRAY, FINE
56 - S.	CRIY, FINE SAND	GRAY TO GREENISH-GR	IK ONE SAND	GREDNISH-GRAY, SILTY, FINE SAND	130-	CREENISH-CRAY, SILTY, FINE SAND WITH PHOSPHATE FRACMENTS	135-		ω –	SUID WITH CLAY
48 -		52	8	CREENISH-CRAY, SILTY, FIME SAND WITH PHOSPHATE FRACMENTS	15.004	GREENISH-GRAY, SILTY, FINE SAND WITH PHOSPHITE AND SHELL FRAGNEVIS	100 A 100	CREENISH-GRÀY, SILTY, PINÉ SANO MTH CEMONTED SANO SHELL PRAGMENTS	43-	GREENISH-GRUY, SLETY, FINE SAND WITH PHOSPHUTE, COLUMNIED SAND AN
			s- 193	GREDNISH-GRAY, SETY, FINE SAND WITH CENEDITED SAND AND PROSPHIE FRAGBRITS	30 - Tie C		80	CREENISH-CRAY, SILTY, TIME SAND WITH SHELL FRAGMENTS	51 132	1 FRACMENTS
<u> </u>			100 1.50					Chiling 19:	w	GRAPHIC

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DR.BY 1.2. 2-94
CHK.BY K.O.G. 2-94
SUPV. C.H.E 2-94

Engineers, Architects and Planners BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REPORT OF CORE BORINGS (1)

PROJECT NO. SHEET NO. 5896 C-15

BX1-23

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

BORING W-111 N 826,375 E 685,675

BORNG W-112 N 826,225 E 685,900

BORNG W-113 N 826,050 E 606,125

BORNG W-102 N 826,100 E 686,500

BORING W-114 M 825,835 E 686,315

BORING W-115 M 825,700 E 686,575

		MATER	1	IMATER:	l	MATER	- 1	WATER	- 1	WATER			· ·
	17:33	DARK GRAY, SELTY, FINE SAND INTH		· · · · · · · · · · · · · · · · · · ·						0.00 000 to N 0.00 to 0.00			WATER
	0-1::::	SHELL FRACMENTS	35.7	WITH SHELL PRIGHENTS		SHOUL THYCHOUTS	0-177	SHELL FRAGMENTS	0-	SHELL PRICHENTS			DARK GRAY, SETY, FINE SAND WITH
0		CREENISH CRAY, CLAYEY, TIME SAND	36.27	HOTH AND BROWN, CLAYEY, FINE SAND	S	CORY AND BROWN, SAMOY CLAY	, — ,	GEORAY, CLAYEY, THE SAND		CAN THE SHIP HITH SET CONDITION	17-		SHELL PRICHERTS
7	4-12	GRAY, SETY, FINE SAND WITH CEMONTED 4-2		SETY, THE SHO WITH CLAY AND	>	CREDISH-GRAY, SLTY, FINE SWO WITH ORGUNGS AND SHELL FRAGUENTS	70-1.	CRAY, SETY, THE SAND WITH 5-	7-2-3	SHO NO SHELL PRICHEMIS	A 0-	45.V	LOARK GRAY, FINE SAND WITH SET,
•		SUID AND SHELL PRICHERITS	- ₩%	COMONIED SAND	1	GRAY, SELTY, FINE SAND INTH CLAY	8-10	1 CLINENTED SAND AND PROSPRIATE	1.357	위	7-	1000	COMOVIED SAMO, AMO SHELL PRÁCHON
4	0-100	1	T.".	1	ļ	GRAY, SILTY, TIME SAND		20-	15- 35	GREDHISH-GRAY, SILTY, FINE SAND	18	J."∵	DARK CRAY, FINE SAND WITH SET AND
0 1	10 Tables	l	200			WITH CLAY AND SHELL PRAGMENTS	. 750		7-1	PRICHOITS	7-14-	13.5	SHELL TRACHENTS
,,		GRAY, SELTY, FINE SAND INTIN CLAY		GREENISH-CRAY TO CRAY, SLTY, FINE			100		32-	53			1
		AND SHELL PRACMENTS		SAND INTH CLAY			2.3	GRAY, SILTY, FIME SAND WITH CLAY	- 1	~			식
	125,377	2	7.3.3	, ~	33.3		770		7-7	GREENISH-GRAY, SILTY, TIME SAND	2	17.	GRAY, FINE SAND WITH CLAY
o			-				بنديه	1		WITH CLAY	2-	نبيب	A
	1		17.00	-	7.55		- 1.7.	CREDISH-GRAY, CLAYEY, THE SWO	7	1		100	<u> </u>
	. (32.33)	GRAY TO GREENISH-GRAY, SILTY	1500]	15. 1	DARK GRAY, CLAYEY, FINE SAND	نينينا	WITH SHELL FRAGMENTS		됨	_ /	13. 33	/ 1
	1	THE SAND WITH CLAY	T:	J		Dan Gor, Cores, the son	/	1	7	3]	2-	1:-3:	.]
0	. (20)	_	10.0	_	10					4		100	
	10.75		75.77		7.		7 1		4			7.7	1
		_	1.5	CRAY AND BROWN TO CREDUSH-CRAY.				GREDHISH-GRAY CLAY WITH TIME SAMO	1.4	3	6	1.4.	GREENISH-GRAY, CLAYEY, TIME SAND
•	17.20	CREENISH-CRAY, CLAYEY, FINE SAND	1	CLIMEY, TIME SAND			٠- السنام	j	3-1	্র	•	1	4
0	. 1450	_	÷.\					7	- L	CREENISH-CRAY, CLAYEY, FINE SAND	,	(24.5°	<u>4</u>
			1			7	•		4 (10)	<u> </u>		2.35	
			1.00		تتبيي						,	r: -: (1	á
•	1 □ □ □ □ □	7	7. 4	4-	##		'-FEE	GREENISH-GRAY, SILTY, CLAY	<i>"</i> —	 F.	4-1		d
,	ينييا		V ()			CREDNISH-CRAY, SANOY CLAY				:d	4_		GREENISH-GRAY, SANDY CLAY
	- 		13.3				**		 				CARECUSA-DIGIT. SANDT CON
		GREENISH-GRAY, SANDY CLAY	X	·					2	3	, , , , , , , , , , , , , , , , , , ,		4
•	5	9 -	1.2.	12-	****	GREENISH-CRAY, SANOY CLAY WITH CEMENTED	J	i	10	GREENISH-GRAY, SANDY CLAY	4-4	1.37	GREENISH-GRAY, CLAYEY, FINE SAND
,			-			SAND AND SHELL FRACMENTS	17.5	CREEDIFSH-GRAY, CLAYEY, TIME SAND		T- WITH SHELL FRAGMENTS STARTING T- AT 69 FEET	,	1	1
N			1540		****	GREDNISH-CRAY, SATY, FINE SAND	7 19 7	WITH PHOSPHATE AND SHELL FRAGMONTS	19		12	-	1
*		CREENISH-CANY, SLTY, FINE SAND WITH CEMENTED SAND, PHOSPHATE, AND SHELL FRACMENTS 50-		CREDNISH-CRAY, SLTY, FINE SAND MITH CLAY AND PHOSPHATE AND SHELL FRAGMENTS		WITH CLAY AND SHELL FRACMENTS	53	1		<u> </u>	, , , , , , , , , , , , , , , , , , ,		:
х	°नश्ला	TRACMENTS 50-	15.5	54-	5-5-	CRAY, SETY, FINE SAND WITH	9- 333	GREDNISH-GRAY, SILTY, FINE SAND 10 WITH PHOSPHATE AND SHELL FRAGMENTS	∞-[:::::	ii	100+-	3.50	GREENISH-GRAY, SILTY, FINE SAND WITH CLAY, CEMENTED SAND, AND
2	3		2	ļ.	1.5	CEMENTED SAME AND PHOSPHATE FRACMENTS	-	WITH PROSPRING AND SPECIE PROGREMIS	3,-4	GREENISH-GRAY, TIME SAND WITH SILT	, , , , , , , , , , , , , , , , , , ,	37.00	SHELL FRACHENTS
	1	GREENISH-GRAY, SELTY, FINE SAND	2.2		1		** ***	GREENISH-CRAY, SATY, FINE SAND	10	3	+00+	100 V	<u> </u>
		INTH CEMENTED SAND AND	4.	GRAY, SILTY, FINE SAND WITH	3.1			WITH COMENTED SAND AND SHELL	7, 5,	şi —	F	7	4
87	7-16/3	SHELL TRACMENTS 75-	·: `:	CRAY, SILTY, FINE SAND WITH PHOSPHATE FRACMENTS AND 125— CEMENTED SAND	·** \		v-[∷.:	FRACIONIS 10	ν -[-:-`\	심	137-	r 2 3	J
,		57-		CEMENTED SAND	* * * *	CREDISH-CRAY, SILTY, TIME SAMD			بمنب		t	***	-
+100	• • • • • • • • • • • • • • • • • • • •						*		•	}		7	
	12.55	CREENISH-CRAY, SLIY, FINE SAND	7.55	Li Li	لتئننا				12.45.	1	F	32.45	
148	'HXXII	MTH SHELL FRACMENTS STARTING 70-	N. S.	% – [,	33.1	10	01-		7-1	CRAY, SILTY, THE SIND	120-		1
o	33.4	AT 98 FEET	3.3	i i		GREENISH-GRAY, FINE SAND WITH SILT		CREENISH-GRAY, FINE SAND WITH CLAY	10.00	<u> </u>	ŀ	27.7	- 1
	<u>' </u>	70	1				6-		4-1-2-		-100	1	
	P .:	WITH PHOSPHATE FRAGMENTS STARTING AT 103.5 FEET	1.3	[3			•		2		A	GREENISH-GRAY, FINE SAND WITH SILT
99	"一 次"。	73-	13.7	CREDNISH-CRAY, FINE SAND INTH SUT		10	ν-[9	رين المالية (المالية المالية المالية المالية المالي	GREENISH-GRAY, FINE SAND WITH SILT,	100-[1
9			100	AND PHOSPHATE FRACMENTS						PHOSPHATE AND SHELL FRAGMENTS	ľ		-
	10.55		7:17:	—————————————————————————————————————			<u>ا ترتن</u>		4-			لنتهيب	
	(2.2)			ť	r.				بتبييا	•	Į.		ĺ
124		CREENISH-GRAY, FINE SAND WITH SUT		88 — [·]		GREENISH-GRAY, SILTY, FINE SAND INTH PHOSPHATE AND SHELL FRACINEVIS	6 —{::::::::::::::::::::::::::::::::::::	CREENISH-CRAY, SULTY, FINE SAND	9-		வ−[்	(3.33)	1
9	223-77	AND PHOSPHATE FRACMENTS	****	[;		The second second second second	(3:21	WITH CEMENTED SAND AND SHELL FRAGMENTS	24.7	LICHT CRAY, SILTY, FINE SAND INTH CEMENTED SAND AND PHOSPHATE	<u> </u>	****	-
	- Friend	50-	77.7		::: 		0 E.Y.				- 30 - F	-::::	
				CRAY, THE SAID WITH SET AND	:::1		27.30			1	·		CRAY, SILTY, FINE SAND WITH CEMENTED SAND, PHOSPHATE,
85	لننتث	37-	<u> </u>	CEMENTED SAMO 73_E	21.	10	لتتستناءه	3	, 1:55	3	34-	1	AND SHELL FRAGMENTS
,											F	N	1
											تا م	اسند	

REVISIONS DATE BY DR.BY 1.Z. 2-94
CHK.BY K.O.G. 2-94
SUPV. C.H.E 2-94 DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DATE BY DATE BY

Engineers, Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REPORT OF CORE BORINGS (2)

PROJECT NO. SHEET NO.
5896 C-16

BX1-24

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

BORING W-116 N 825,550 E 686,800

BORFIG W-117 N 825,350 E 687,000

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DESCRIPTION

BORING W-103 N 825,400 E 687,250

BORING W-118 N 825,140 E 687,220 BORING W-119 N 825,000 E 687,500 BORING W-120 N 824,800 E 887,700

	0	INATES*		MATER*	,	MATER .		MATER		MATER		WATER
52-		DANK CRAY, SLIY, FINE SAND WITH CONENTED SAND AND SHELL FRACMONTS			9-3	DATH GRAY AND BROWN, SETY, FINE SAND WITH SHELL FRAGMENTS		DARK GRAY, SAMOY SET INTH SHELL FRACMONTS		207 SBY SHIT AND SWO WITH		
9-		FRACMENTS 7_4		DARK GRAY, SETY, FINE SAMO WITH CEMOVIED SAMO AND SHELL FRACMENTS	15 10 - 20 - 20 - 20 - 20 - 20	GRAY, SETY, THE SAID WITH CLAY AND SHELL FRAGMENTS	10 13	HITH SHELL PRINCHENTS 12-	3-	ICLAY AND SHELL FRAGMENTS		DARK BROWN, SETT, FINE SAND
, 10		CREENISH-CRAY, SLTY, FINE SAND WITH PHOSPHATE AND SHELL PRAGMENTS		DARK GRAY, SETY, FINE SAND WITH SHELL FRACMENTS		CRUY, COMENTED SWO	10 9-	-		9-3-		, WITH SHELL MOCHENIS
-		<i></i>	(1)		4		1-1-1	? GRAY, SETY, FINE SHIP MITH CLAY 3- AND SHELL FRACHENTS	-	GRAY, SETY, PINE SAND WITH J		
•	3	CREDIFSH-CRAY, SILTY, FINE SAND WITH PHOSPHATE FRACMENTS 3		GREENISH-CRAY, SRIT, THE SAND WITH CLAY	,	GRAY AND BROWN, SILTY, FINE SAND		- I-		THOSTAIR MU SALL PROMERTS		GRAY TO GREENISH-GRAY, SLTY, FINE SAND WITH CLAY
					, <u>, , , , , , , , , , , , , , , , , , </u>	1						
	,	,		GREENISH-GRAY, CLAYEY, FINE SAND	17.3		7		3	CHEDNISH-GRAY, CLAYEY, THE SAND 13-		
,	·	GREENISH-GRAY, CLAYEY, FINE SAND	-						10	GREDNISH-GRAY, SILTY, FINE SAND		GREENISH-GRAY, SANDY CLAY
:	7-123	3		}	1-13	UCHT CREENISH-CRUY, CLUYEY, TIME	3 -	CREDNISH-GRAY, CLAYEY, FINE SAND	0-	GREDNSH-GUY, SLTY, FINE SAND SHE CUY, COMDITED SAND AND SHEL FRACMENTS 2-		
				CHEENISH-GRAY, SANDY, CLAY	- //		• 50	<u> </u>	-	GREDISH-GRAY, CLAYEY, THE SAND		
•	,	•		CRETINSH-CRUY, CLUYEY, THE SHID	4-133		9-		3-	4-		GREENISH-GRAY, CLAYEY, FINE SAND
		CREENISH-CRAY, SANDY CLAY 13		GREENISH-GRAY, SANDY CLAY	•		28-	GREDWISH-GRAY, SILTY, FINE SAND WITH CLAY, COMENTED SAND, AND PHOSPHATE FRACHENTS	-		35.2	
14	- 337	CREENISH-GRAY, CLAYEY, FINE SAND 10			6-E	GREDNISH-GRAY, CLAY WITH FINE	25	4	,,	GREENISH-GRAY, CLAYEY, FINE SAND WITH	,	
				GREENISH-GRAY, CLAYEY, THE SAMO	,			<u></u>		PHOSPHATE FRAGMENTS		
92		CREENISH-CRAY, SILTY, FINE SAND 100	1	LIGHT CRAY, SILTY, FINE SAND WITH CEMENTED SAND AND PHOSPHATE FRACMENTS	101-	CEMENTED SAND WITH SET	123 - 555	GREDISH-CRAY, SILTY, FINE SAND WITH PHOSPHATE FRACMENTS	x x	CREDISH-CRAY, SANDY CLAY W/ PHOSPHATE 100- FRACABORTS CREDISH-CRAY, FINE SAND WITH 100-	7	CREENISH—CRAY, SETY TIME SAND WITH SHELL TRACMENTS
	13.75	WITH CEMENTED SAND, PHOSPHUTE, AND SHELL FRAGMENTS	<u> </u>	7700077						SET AND SHELL FRAGMENTS	X.A.	
								CREENISH-GRAY, SUTY, TIME SAND		GREDISH-GRIY, FINE SAND		
77		65-			102	GREENISH-GRAY, SILTY, TIME SAND WITH SHELL FINGUISHTS	94-	S WITH SHELL FRAGMENTS	5 – (*	65-		
a		CREENISH-CRAY, SILTY, FINE SUID INTH PHOSPHATE AND FRACMENTS		CREENISH-CRAY, SILTY, TIME SAND	**************************************				<u> </u>	70		CREENISH-CRAY, FINE SAND WITH SALT
90	' ````	WITH PHOSPHATE AND FRACMENTS 44			100-		74-	GREENISH GRAY, TIME SAMO WITH SILT	7 - 1	75-		
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			70		_~ <u> </u>		•			
87	-[3]	GREENISH-GRAY, SILTY, FINE SAND WITH PHOSPHATE FINACMENTS 78-			81-	GREENISH-GRAY, THE SAND WITH SILT AND PHOSPHATE PRACMENTS	64-	CREENISH-CRAY, TIME SAMD WITH SRT	9-	GREDUSH-CRUY, SUTY, FIME SAND 72-		
	7.5	109			* S			AND PROSPINITE FRAGMENTS		MITH PHOSPHATE FRAGMENTS		GREENISH-GRAY, SILTY, FINE SAVO
52		CREENISH-CRIV, SILTY, TIME SAMO 55-		SILTY, FINE SAND WITH PHOSPHATE PRACMENTS	78-	GREENISH-GRAY, SILTY, FINE SAND WITH CLAY	58-]		75 —		GREENISH-GRAY, SILTY, TIME SAND WITH CLAY
	12. F	CREENISH—CRAY, SETY, FINE SAND 55- WITH CEMENTED SAND AND PHOSPHATE FRAGMENTS 34-	1127	<u> </u>	27-3				5 C		****	
14		•		GRAY TO GREENISH-CRAY, FINE SAND WITH SUT, CEMENTED SAND AND		CEMENTED SAND		CRAY, SILTY, FINE SAND WITH CEMENTED SAND, PHOSPHATE AND SHELL FRACMENTS		LIGHT GRAY, FINE SAND WITH SET. CEMENTED SAND, PHOSPHATE, AND SHELL FRACALENTS		CREDNISH-CRAY, FINE SAND WITH SAT, CENTENTED SAND, PHOSPHATE, AND SHELL FRACMENTS
36		32-	N. 7.	SHELL FRAGMENTS	25		36	SHELL FRAGMENTS	3-	31		SALL PRODUIS

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CHK.BY K.O.G. 2-94
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DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE
REPORT OF CORE BORINGS (3)

5896 C-17

BX1-25

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

BORING W-104 N 824,750 BORING W-122 H 824,500 E 688,175 DORNG W-121 N 824,620 N 824,360 N 824,275 € 687,910 £ 688,260 E 688,400 MATER MATER **MITT** MITER WITH SHOLL PRACHONIS DARK BROWN, SLLY, FINE SAND WITH SHELL FRACMENTS DANK GRAY, SET WITH THE SAMO
ADARK GRAY, SETY, THE SAMO
WITH CLAY AND SHELL FRAGMENTS
GRAY AND BROWN, THE SAMO WITH SET , 8-DARK BROWN, SILTY, FINE SAND DARK GRAY SET W/ SHELL FRACHENTS 9-10-CREDIESH-CRAY, FINE SIND WITH SILT AND SHELL FRACMONTS GRAY AND BROWN, FINE SAND WITH SLT, CEMENTED SAND AND SHELL FRAGMENTS CRAY, FINE SAND INTH SILT AND SHELL FRACMENTS 2-CREENISH-CRAY, SETY, I'ME SAND WITH CLAY CREENISH-GAAY, FINE SAND WITH SLT AND SHELL FRAGMENTS DRAY TO DREEDHISH CRAY, SILTY, FINE SAND GREENISH-GRAY, SILTY, FINE SAND WITH CLAY CRAY TO GREENISH GRAY, SETY, TIME SAND MIN CLAY CREENISH-CRAY, SILTY, FINE SAND WITH CLAY GRAY, SILTY, FINE SAND INTH CLAY (NGVD) CREENISH-CRAY, SAMOY CLAY CRAY, CLAYEY, FINE SAND GREENISH-GRAY, CLAYEY, FINE SAND PREENISH-GRAY, SANDY CLAY CREENISH-CRAY, CLAYEY, FINE SAND GREENISH-GRAY, CLAYEY, FINE SAND WITH SHELL FRAGMENTS CREENISH-GRAY, CLAYEY, FINE SAND WITH SHELL FRAGMENTS GREENISH-GRAY, SANDY CLAY ≷ CREENISH-CRAY, CLAY WITH FINE SAND CREENISH-CRAY, SANDY CLAY GREENISH-GRAY, SANDY CLAY WITH PHOSPHATE AND SHELL FRAGMENTS CREDNISH—GRAY, CLAYEY, FINE SAND WITH CEMENTED SAND AND SHELL FRACMENTS ELEVATION CREEDISH-CRAY, SILTY, FINE SAND WITH CLAY, COMENTED SWID AND SHELL FRACMONTS CREENISH-CRAY, SUTY, FINE SAND WITH CLAY, CEMENTED SAND AND SHOLL FRAGMENTS CRAY, SILTY, FINE SAND WITH CEMENTED SAND AND SHELL FRAGMENTS GREENISH-GRAY, SILTY, FINE SAND WITH SHELL FRACHENTS CREENISH-CRAY, SETY, THE SAND WITH CEMENTED SAND AND SHELL FRAGMENTS CREDNISH-CRAY, FINE SAND WITH CLAY, PHOSPHATE AND SHELL FRAGMENTS 70-GREENISH-GRAY, SILTY, FINE SAND WITH CEMENTED SAND, PHOSPHATE, AND SHELL FRAGMENTS CREENISH—CRAY, SRITY FINE SAND WITH CEMENTED SAND AND SHELL FRAGMENTS CREDWSH-GRAY, FINE SAND INTH SILT GREENISH-GRAY, FINE SAND WITH SILT CREENISH-CRAY, FINE SAND WITH SILT GREENISH-GRAY, FINE SAND INTH SILT PHOSPHATE, AND SHELL FRACMENTS CREENISH-CRAY, FINE SAND, SILT AND CEMENTED SAND CREENISH-CRAY, FINE SAND WITH SLT AND PHOSPHATE FRACMENTS CREENISH-CRAY, SETY, FINE SAMO WITH CLAY CREENISH-GRAY, FINE SAND WITH SILT CREENISH-CRAY, FINE SAND WITH CEMENTED SAND GRAY AND BROWN, FINE SAND WITH SILT AND CEMENTED SAND CREENSH-GRAY, FINE SAND WITH SILT AND SHELL FRACMENTS GREENISH-GRAY, SILTY, FINE SAND GREENISH-GRAY, SILTY, FINE SAMD WITH PHOSPHATE FRACMENTS CREENISH-GRAY, CLAYEY, FINE SAND WITH CEMENTED SAND AND SHELL PRACMENTS CRAY, SILTY, FINE SAND WITH CEMENTED SAND AND SHELL FRAGMENTS CREENISH-CRAY, FINE SUND WITH SILT AND CEMENTED SAND -GRAY, CEMENTED SAND WITH SILT AND PHOSPHATE FRACMENTS CREENISH-CRUY, SULTY, FINE SAND WITH CENENTED SAND, AND SHELL FRAGMENTS -120 GRAY, SILTY, FINE SAND WITH CEMENTED SAND, SHELL AND PHOSPHATE FRAGMENTS 55 -GREENISH-GRAY, SILTY, FINE SAND WITH CEMENTED SAND AND SHELL FRAGMENTS

LOG-30.DWG

REVISIONS

DATE BY

DESCRIP TON

DATE BY

DESCRIPTION

DESCRIPTION

DATE BY

DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

CRAY, SETY, SAND WITH SHELL AND PHOSPHATE FRAGMENTS

MIDPOINT BRIDGE REPORT OF CORE BORINGS (4)

GRAPHIC SCALE

PROJECT NO. SHEET NO. C-18

BX1-26

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

	N 821, E 608,		N 824,02: E 688,870		N 824.1 E 688.7		N 824,0 E 666,6		N 823,1 E 408,1	
0		1	- X		<u> </u>	1	Y	1		7
-10		MATERY		MATER		MATEN		MATCR		RATER -10
			0-	VDTY DARK BROWN SILT WITH SHELL FRACHENTS	9=	DARK BROWN, SANDY, SET				
-20	0-	DANK CHAY TO CREENISH-CHAY, SANDY	3 7 7	FRACMENTS -GRAY, FILE SAMO WITH SILT -GRAY SETY DIME SAMO WITH COMPUTED		GRAY AND BROWN, SILTY, FINE SAND BITH SHELL FRAGMENTS.			0-	DANK BROWN SET W/ SHELL FRAGMENTS —20 TOURK CRUT, SETT, THE SAND WITH SHELL FRAGMENTS
	3 3 - 2 A	CREEDISH-CRAY, FINE SAND WITH SILT.	6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	GRAY, SETY, THE SAND WITH COMMITTED SAND AND SHELL TRACMONTS GRAY, SETY, THE SAND WITH SHELL	10 -	GRAY AND BROWN, SETY, FINE SAND WITH CEMOVIED SAND AND SHELL FRACMENTS	0	DARK BROWN SILT WITH SHELL FRACMENTS	0 4	DARK BROWN, CLAYEY, FINE SAND WITH DRIGANIC AND SHELL FRAGMENTS
-30	35 35 23	PHOSPHATE AND SHELL PRAGMENTS		CRAY OF WITH CONDUCTOR CAMO	2-100	GRAY AND BROWN, SETY, FINE SAND WITH 8 SHELL FRAGMENTS	3-(;)		1	-30
-40) - (1)	CREDUSH-CRUY, SETY, THE SAND WITH CLAY	. 👼	CRAY SET WITH COMONTED SAND CREENISH-DOOR, SETT, FIRE SAND	4			GREENISH-GRAY, SLITY, FINE SAND WITH CLUMENTED SAND	4	GRAY AND BROWN, SILTY, PINE SAND MITH CLAY -40
	ينين پين	<u> </u>	1	GREENISH-GRAY, CLAYEY, FINE SAND	2-	GREENISH-GRAY, CLAYEY, FINE SAND	7-		12-	
-50		- GREENISH-GRAY, SANDY CLAY	_,	CREENISH-GRAY, SANDY CLAY		CHEROTHOUS, CONT. 1702 STO		CREENISH-CRAY, CLAYEY, FINE SAND		CHEENISH-CHAY, CLAYEY, THE SAND
-80_	2-EX		,		, , , , , , , , , , , , , , , , , , ,		10-		10-1-1	GREENISH-GRAY, SUMOY CLAY -60
	بني. بني.	CREENSH-GRUY, SLITY, FINE SAME	28 - Jan 19	DALING - DAT, CLARY, THE SHO	105-	CREINISH-CRAY, CLAYEY, FIME SAND MITH CEMENTED SAND AND SHELL FRACMENTS	ارک ا	GREENISH-CRAY, SILTY, FINE SAND WITH CEMENTED SAND AND PHOSPHATE	20-	GREENISH-GRAY, CLAYEY, FINE SAND GREENISH-GRAY, SRTY, FINE SAND MITH CEMENIED SAND AND PHOSPHATE
-70	28 PA	MITH CLAY, PHOSPHATE AND SHELL PRAGMENTS	40-12-0	CRAY, SILTY, FINE SAND WITH COMENTED	104 - 104			FRACMENTS		FRAGMENTS -70
-	130 - 300 300 300 300 300 300		24 -	SANO ANO SHELL FRAGMENTS	105	GREENISH-GRAY, FINE SAMO WITH SLT	100-	GRAY, FINE SAND WITH SILT	130-	-80
	85-		06 -	GREENISH-GRAY, FINE SAND WITH SILT	73-V-0-1		74-		77-	CRAY TO CREDIESH CRAY, FINE SAND WITH SET AND PHOSPHATE FRAGMENTS
-90	80-				78 - 10 10 10 10 10 10 10 10 10 10 10 10 10			CRAY, FINE SAMO WITH SET, PHOSPHATE AND SHELL FRAGMENTS	74-	
-100	70-	GRAY TO CREENISH-GRAY, FINE SAND WITH SET	77-	CRAY, SRIY, FINE SAND WITH PHOSPHATE FRAGMENTS	77-	GREENISH-GRAY, SILTY, FIME SAND	84-	CREENISH-CRUY, SUTY, FINE SAND	81-	CREENISH-CRAY, PINE SAND -100
	50 -		64-		85-		1000	MIN CEMENTED SAND, PROSPRAIL AND SHELL FRACMENTS	20 - S	CREATER SAND AND PHOSPHATE FRAGMENTS
110	88 = 0.000 0.000 0.000	CREINISH-CRUY, SILTY, FINE SAND WITH PHOSPHATE AND SHELL			- n	CREENISH-CRUY, SILTY, FINE SAND		CREENISH-CRAY, FINE SAID WITH SILT AND PHOSPHITE TRACMENTS	85 (T)	CREENISH-CRAY, FINE SAND WITH SET AND PHOSPHATE FRACMENTS -110
120	48	PRICHENTS	65-1	CREENISH-CRAY, SILTY, FINE SAND WITH CENEVITED SAND AND PHOSPHATE TRACMENTS	77-	WITH CEMENTED SAND	43-	GREENISH-GRAY, SLITY, FIME SAND WITH CEMENTED SAND AND PHOSPHATE FRAGMENTS	40-	-120
	35 - N 19 7	GREENISH-GRAY, SILTY, FINE SAND WITH CEMENTE SAND, PHOSPHATE AND SHELL FRAGMENTS	D 30		55-	GREENISH-GRAY, FINE SAND WITH SLT AND CEMENTED SAND	26		34-17	LIGHT GRAY TO GREENISH-GRAY, SILTY, THE SAND WITH COMENTED SAND AND
130	20 - (3) (4) (3) (3) (3) (4) (4) (4)		2.37	GREENISH-GRAY, FINE SAND WITH SLT AND CIMENTED SAND	ار می است. مارکیتی: مارکیتی: مارکیتی:		25.3	GREENISH-GRAY, SILTY, FINE SAND WITH CEMENTED SAND, SHELL AND PHOSPHATE FRACMENTS	120.00	A A G GRAPHIC
	1263	GREENISH-CRUY, CLUYEY, FIME SAND WITH CEMENTED SAND	لتستثل هن		45		40-		17- 27-	Children 10 10 10 10 10 10 10 10 10 10 10 10 10
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PROJECT NO. SHEET NO 5896 C-19

BX1-27

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

	BORING 19-129 N 823.925 E 689.900	BORING IF-130 N 823,750 E 689,160	BORNE W-131 N 823,325 E 889,330	80MMC W-106 N 823,450 E 689,500	BORNAC III-132 N. 823.375 E. 689.600	
0	<u> </u>	V			₩ RATER	. 0
	нател	MA TOP	HATER DARK BROWN SAT WITH SHELL FR	PAGMENTS HATER	DURK GRAY, SKTY, FINE SAND WITH	-10
	DUEY CHUY SAT	DUNK BROWN SET TO STATE OF THE SAND TO STATE OF THE SAND	GREENSH-GRAY, SLIT, FINE SAME B - SAME WITH SHELL FRAGMENTS	DUNK CRAY, SETY, FINE SAME SHELL PROCEEDITS GRAY, SETY, FINE SAME SHELL PROCEEDITS GRAY, SETY, FINE SAME MO CENENTED SAME	WITH 10 YELLOWSH-BROWN SLTY, FINE SAND	
	DAIN GRAY, SETY, FINE SAND DAIN SHELL FRACHENTS GREENISH-GRAY, FINE SAND WITH CLAY	GRAY TO CREENISH-CRAY, SETY,	GREENISH-GRAY , SETT, FINE SAN WITH CLAY AND SHELL TRACMENTS	NO JOSÉ	GREENISH-GRAY, SETY, FINE SAND WITH CLAY AND PHOSPHATE FRACHENTS	
_30	CREENISH-CRAY, FINE SAND WITH CLAY MO COMENTED SAND CREENISH-CRAY, SLTY, FINE SAND	CREENSH-CRAY, CLAYEY, THE SAN		"	GRIT TO GREENISH-GRIT, CLAYEY PINE SINO	
-40	THE CAPENISH CRAY, SMOY CLAY	CRETHISH-CRAY, SETY, FINE SAND	GREENISH-GRAY, CLAYEY, FINE SA	B-	GREENISH-GRAY, SETY, FINE SAND	
-50	CHEDWISH-CRAY, CLAYEY, THE SAND	J = 100 000 000 000 000 000 000 000 000 0	J-	5-	GREENISH-CRAY, SAMOY CLAY	-50
-60	SELTY, FINE SAMO WITH CLAY GREENISH-GRAY, SANDY CLAY 30-2-7-7	GREENISH-GRAY, CLAYEY, TIME SAN GREENISH-GRAY, CLAYEY, TIME SAN SONO AND PHOSPHATE PRAGMENTS	O WITH CEMENTED	CREENISH-GRAY, CLAY WITH I	GREENISH-CRUY, CLAYEY, FINE SAND	-60
-70	GREENISH-CRAY, CLAYEY, PINE SAND WITH PHOSPHATE AND SHELL FRAGMENTS	GPAY, SETY, THE SAND WITH CLAY	100 STEP GREENISH-CRAY, CLAYEY, FINE SAN WITH SHELL FRACMON'S	SS GREENISH-GRAY, CLAYEY, FINE MITH CEMENTED SAND	SUND CREENISH-CANY SETT FINE SUND HITH CEMENTED SWED JUND PHOSPHATE FRAGUENTS	-70
-80	THE SAMO WETH SET	GRETHISH-CRAY, THE SAND WITH S	ECC-4-1	WD 27-12-3	93 GREENISH-CRUY, FINE SAND WITH SET	-80
-90	THE SAMO WITH PHOSPHATE PRAGMENTS	GREENSH-GRAY, FINE SAMO WITH S PHOSPHALE FRACMENTS	DET AND GREENISH-CRAY, THE SMO WITH	GRENISH-GRAY TO GRAY AND SETY, PINE SAND	BROWN 29	-90
-100	GREENSH-GRAY, FINE SAND WITH PHOSPI	OF CREDISH-CRIT, FRE SHIP WITH S CONDITION SHIP, PROSPILITE AND	OREENISH-CRAY, FINE SAND WITH	Set. (3)	GREENISH-CALY, FINE SAND WITH SET AND PHOSPHATE FRACMENTS	-100
-110	MO SHELL PRACHESTS	80 - STEEL FRACMENTS	GRAY, SETY, PINE SAND MITH CONDUITD SAND & PHOSPHATE	131- CRETHISH-CRAY, FINE SAND W	ORETHISH-CRUY, SILTY, FINE SAND WITH COMENTED SAND, PHOSPHATE AND SHELL FRACMENTS	-110
-120	ツー (京都) (マーマン) (マーマ	GREENISH GRAY, FINE SAND WITH S PHOSPHAIE AND SHELL FRAGMENTS		DARK GRAY TO GRAY SILTY, FI	30 SALL PRODUCTS	
-130	GREENISH-GRAY, SETY, TIME SUND	GREENISH-CRAY, SELTY, FINE SAND MITH COMMITED SAND AND SHELL FRACILENTS	GRAY, FINE SAND WITH CEMENTED SAND, PHOSPHATE AND SHELL FRAN	CMENTS 36	التعالم ور	-130
	المختدا ور	41 121-47			Chih Eum 5/11/95	GRAPHIC 10.

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SUPV. C.H.E 2-94

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MIDPOINT BRIDGE REPORT OF CORE BORINGS (6)

BX1-28

FOR NOTES, LEGEND AND LOCATION, SEE BORING LOCATION PLAN.

									 ८ हर	ASPHALT GRAY AND BROWNL FINE SAND WITH	
0	▼	MATER .		WATER	, T	MATER .		MATER*	- 4-	BROWN THE SAME WITH SHELL TH	<u> </u>
_	,- (1)21	DATH GRAY AND BROWN FINE SAND	2_2	DARK CRAY, SETY, FINE SAND	8=		7 10-	DURK CHAY, SETY, TIME SAND	17		
-10		WITH SUT AND SHELL PRAGMONTS	10 0 >	CRAY AND BROWN, FINE SAND INTH	19 1 100	7	10 10 ->->	CRAY AND BROWN, FINE SAND WITH SILF	//- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	GRAY, THE SAND	-10
14-	_5-	뒤	4-	SHELL PRACMENTS	" TE	CRUY AND BROWN, TIME SAND WITH	10-	CREENISH-CRAY, SILTY, FINE SAND INTH CEMENTED SAND AND SHELL FRAGMENTS	10-	GRAY, THE SAMO INTH SET	
-20		CHIT AND BROWN, THE SAND	·	CRAY AND BROWN, THE SAND WITH SLT, SHELL AND PHOSPHATE PRAGMENTS			#—————————————————————————————————————		11-375 -11-375) e t >-	-20
	7-2-3		3-		, <u>j</u>		155%		200	SAND AND ROCK FRAGMENTS	ENIED.
-30		CRAY, SILTY, THE SAND WITH SHELL TRACMENTS	,	DON'T CHAY, SILTY, FINE SAND		GRAY SILT INTH FINE SAMO AND SHELL FRAGMENTS	, , , , ,		10. 17.	CRAY, TIME SAND WITH SET	-30
	70.3			UCHT GRAY, SETY, FINE SAND WITH CLIY	7			CREDNISH-CRAY, SILTY, FINE SAND		<u> </u>	
	2-1-1-1	GRAY, SILTY, FINE SAND INTH CLAY	2-		2-		2-	- WITH CLAY	6-1	GREDNISH-GRAY, FINE SAND	
-+0	- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			CREENISH-GRAY, CLAYEY, FINE SAND		GREDWSH-GRAY, CLAYEY, FINE SAND			1-30		
	6-		2-		0-		7	CREDWISH-CRAY, CLAYEY, FINE SAND		3	
-50	→ 🚟				- 1		, ,			선 대	
	·-	OREENISH-GRAY, SANDY CLAY	2-		5-		J- (200	CREENISH-CRAY, SANDY CLAY	3	A A	
-60	,		<u>, 1700</u>	CREENSS:-CRAY, SANDY CLAY	_,	CREENISH-CRAY, CLAY WITH FINE SAND	2-11/				
	6-		,_ E		, S		9 —1230	GREENISH-GRAY, CLAYEY, FINE SAND	8	GREENISH-GRAY, SANDY CLAY	
-70_			. 30.3		7				3-E	혉	·70_
	13.45 27.7	MITH CEMENTED SAND AND SHELL FRACMENTS	96 - 12 5	CREENSH-CRAY, SILTY, FINE SAND WITH CLAY, CEMENTED SAND, AND		CREENISH-GRAY, CLAY WITH FINE SAND AND SHELL FRAGMENTS	<i>"</i>	CREENISH-GRAY, SANDY CLAY		<u> </u>	
	32-			SHELL PRINCHIDITS	36 30		50-	UGHT GRAY, SILTY, PINE SAND WITH CEMENTED SAND AND PHOSPHATE FRAGMENTS	15-	× ×	
	2		* 5			GREENISH-GRAY SILTY FINE SAND WITH CEMENTED SAND AND SHELL FRAGMENTS		·	28 - ()	CRAY, SETY, FINE SAND WITH CLAY, ROCK FRAGMENTS AND CEMENTED SAND	-80
1	31- 17-18. 18-18-18-18-18-18-18-18-18-18-18-18-18-1	GREENISH-GRAY, FINE SAND WITH SILT	100	CHAY, THE SAND WITH SET	50-		98-		35-	(i	
-90			101-				86-		40-	-	-90
,	$\infty - \frac{1}{2} $		100-	CREDNSH-GRAY, FINE SAND WITH	65-		88-	WONT GRAY TO GREENISH-GRAY, FINE SAND WITH SET	55		
-100			- × 3	GREDNISH-GRAY, FINE SAND WITH SILT, CEDIENTED SAND, AND SHELL PLAGMENTS	., E	GREDWSH-GRAY, FINE SAND WITH SILT		SAND WITH SILT	60-		-100
	n-	CRETNICH-CRAY SETY PINE SUM	40 - 333	GREDNSH-GRAY, SETY, FINE SAND	93	WITHOUT RECOVERY AT 106"	56 – 3° °		65-	GRAY, FINE SAND WITH PHOSPHATE FRACMENTS	
-110	œ	CREDIISH-CRAY, SILTY, FINE SAND WITH CEMENTED SAND AND PHOSPHATE FRACIDITS	_, 🔠	WITH PHYSPHATE AND SHELL FRAGMENTS	773		(A) (1)		52-	<u> </u>	-110
	∞ – ∵`\`		49-375						92	3	
120		NO RECOVERY AT 120 FEET	20-1-27		100-		73-				-120
			60		35 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	COMENTED SAME SAME WITH	12.3	LIGHT CRAY, SATY TIME SAND WITH			-120
130	∞ <u> </u>		80 11771		انتشنا ور		30 - F-77-7	UGHT GRAY, SILTY, TIME SAMD WITH CEMENTED SAMD			
										Chih Gum-	GRAPHIC S

DR.BY I.Z. 2-94
CHK.BY K.O.G. 2-94
SUPV. C.H.E 2-94 DATE BY

Engineers, Architects and Planners

LEE COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REPORT OF CORE BORINGS (7)

PROJECT NO. SHEET NO.
5896 C-2/

BX1-29

MOTES

- 1. ALL PILES TO BE PRESTRESSED CONCRETE NO SQUARE AT ENDBENTS AND 24 SQUARE AT PIERS. SEE SHEETS A-3 AND A-4. FOR MILE DETAILS.
- 2. PILES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 455 OF THE PROJECT'S SUPPLEMENTAL SPECIFICATIONS.
- J. LEGEND:

□ DENOTES PLUNB PILE

◆□ DENOTES BATTERED PILE IN DIRECTION SHOWN.

BATTER FOR PROPOSED PILES,

END BENTS- 2" PER FOOT

PIER - 3" PER FOOT

- 4. PILE SPACINGS SHOWN ARE ALONG FEBN AT BOTTOM OF END BENT CAP AND ALONG & OF PIER AT BOTTOM OF FOOTING CAP.
- 5. FOR BORING LOCATIONS AND REPORT OF CORE BORINGS. SEE SHEETS C-13 THRU C-20.
- 6. A DYNAMIC LOAD TEST SHALL BE PERFORMED ON ALL TEST PILES AS PER SECTION 455-3 J4 OF SUPPLEMENTAL SPECIFICATION 455. DYNAMIC LOAD TEST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BID ITEM 455-137 (DYNAMIC TEST LOAD).
- 7. THE DRIVING CRITERIA FOR PRODUCTION PILES SHALL BE DETERMINED BY WAVE EQUATION ANALYSIS USING THE RESULTS OF THE DYNAMIC LOAD TESTS (PDA). THE REQUIRED DRIVING RESISTANCE (RDR) SHALL BE COMPUTED AS FOLLOWS:

PIERS (RDR) - (DESIGN LOAD) X F.S. * TOTAL SCOUR RESISTANCE ENDBENTS (RDR) - (DESIGN LOAD) X F.S. * DOWN DRAG

WHERE F.S. IS THE FACTOR OF SAFETY DEFINED IN SPECIFICATION 455-3 J2 2

- 8. PRODUCTION PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS AND BEYOND UNTIL THE DRIVING CRITERIA FOR THE DESIGN LOAD HAS BEEN MET.
- 9. FOR LOADING CASE WITH SHIP IMPACT (I.D. XSI + I.D. DL), PIERS 32 THRU 56 WERE CHECKED FOR ULTIMATE STRENGTH BASED ON THE FOLLOWING ULTIMATE CAPACITIES UNDER 50% OF 100 YR EVENT SCOUR CONDITIONS:

COMPRESSION: 331 TONS
UPLIFT: 125 TONS (INCLUDES WEIGHT OF PILE)

- 10. FOR PILE CUT-OFF ELEVATIONS. SEE INDIVIDUAL END BENT & FOOTING SHEETS.
- II. FOR FENDER SYSTEM PILE REQUIREMENTS. SEE SHEETS CIII & CII2.
- 12. FOR CURVE DATA, SEE SHEET C-5.
- 13. THE PORTION OF THE PILES EXPOSED ABOVE EXISTING GROUND FOR THE END BENTS SHALL BE WRAPPED WITH TWO SHEETS OF POLYETHYLENE PLASTIC FILM IN ACCORDANCE WITH SECTION 459 OF THE SPECIAL PROVISIONS.
- 14. NO JETTING WILL BE ALLOWED FOR THE TEST PILE OR PERMANENT PILE INSTALLATION DUE TO ENVIRONMENTAL CONCERNS.
- 15. PILING DRIVING WORK AT END BENT I AND 64 SHALL BE COORDINATED WITH THE PROPRIETARY RETAINING WALL CONSTRUCTION OF BID PACKAGES I AND 3. THE TEMPORARY PROPRIETARY RETAINING WALL SHALL BE IN PLACE FOR THE RECUIRED PRE-LOADING PERIOD (AS DIRECTED BY THE ENGINEER).

	PILES	PILE	DESIGN LOAD	SCOUR ELEVATION	TOTAL SCOUR (100 YR)	DOWNDRAG	MIN. TIP	TEST	TEST P
LOCATION	MOS.	SIZE	(TONS)	OOO YAU	RESISTANCE (TOWS)	(TONS)	ELEVATION		LENGTH
ENDBENT I	1 - 11	18"	100	- 26,0	NA	50	- 80.0	1	105
PIER 2				- 26.0				7	
PIER 3				· 32.0				•	
PIER 4		ŀ		- 28.0				2	
PIER 5	ļ			- 210				-	
PIER 6				- 23.0				7	
PIER 1				· 24.0	4.0				
PIER 8	ļ			- 25.0				. 2	
PIER 9				- 26.0					
PIER 10				- 27.0				7	
PIER II				· 28.0				-	
PIER 12				· 29.0				2	
PIER 13					i				
PIER 14								7	
PIER 15								-	
PIER 16	1 - 8		200	*0.0				2	
PIER IT				- 30.0					
PIER IB						ĺ		7	
PIER 19 PIER 20									
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PIER 26				Į.			ł	7	
PIER 27] }				ŀ		
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PIER 29	J						ł	-:	
PIER 30				- סננ			ŀ	7	
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PIER 32		1					t		
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	1 - 32	ł					1	22	
PIER 35			Ī	- 40.0		J	- 1		
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PIER 37		- 1	ſ	- 43.0	1	l	ſ		
PIER 38			1	- 43.0		ł		~	
PIER 39	1 - 38		Ī		8.0			26	
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PIER 4		- 1					Γ		
PIER 42	[- 1	Γ	- 4 6.0					
PIER 43	1 - 44	ł	<i>1</i> 65	- 55 <i>.</i> 0	Q.OI	1		30	
PIER 44	,		ر س	- 56.0	1010	- 1	[~ [
PIER 45						- 1	1		
PIER 46				- 49.0					
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PIER 49	. 50	ļ		- 4 6.0	8.0			~	
PIER 50				- 45.0					
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PIER 52			L	- 40.0					
	1 - 32		_	- 40.0			ĺ	22	
PIER 54			L	- 38.0					
PIER 55		-		- 32.0	6.0				
PIER 56	1		_	- 30.0					
PIER 57				- 29.0				2	
PIER 58				- 28.0			L	-	
PIER 59	1 - 8		200	- 27 0				7	
PIER 60		- 1		- 25.0	1.0			-	
PIER 61				- 25.0				2	
PIER 62				- 23.0				-	
PIER 63				- 20.0				7	
DBENT 64		18"	100	-	NA	50	- 80.0	4	105

16 Jane 8

≿						REVI	SIONS							NAME	DATE
	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	OR.BY	BOW	6/93
ű													CHK.BY	MCM	6/93
-													SUPY.	REJ	6/93
	PLOTTE	D: 081	(AY95- 09.5 7.20												

Greiner

Engineers. Architects
and Planners

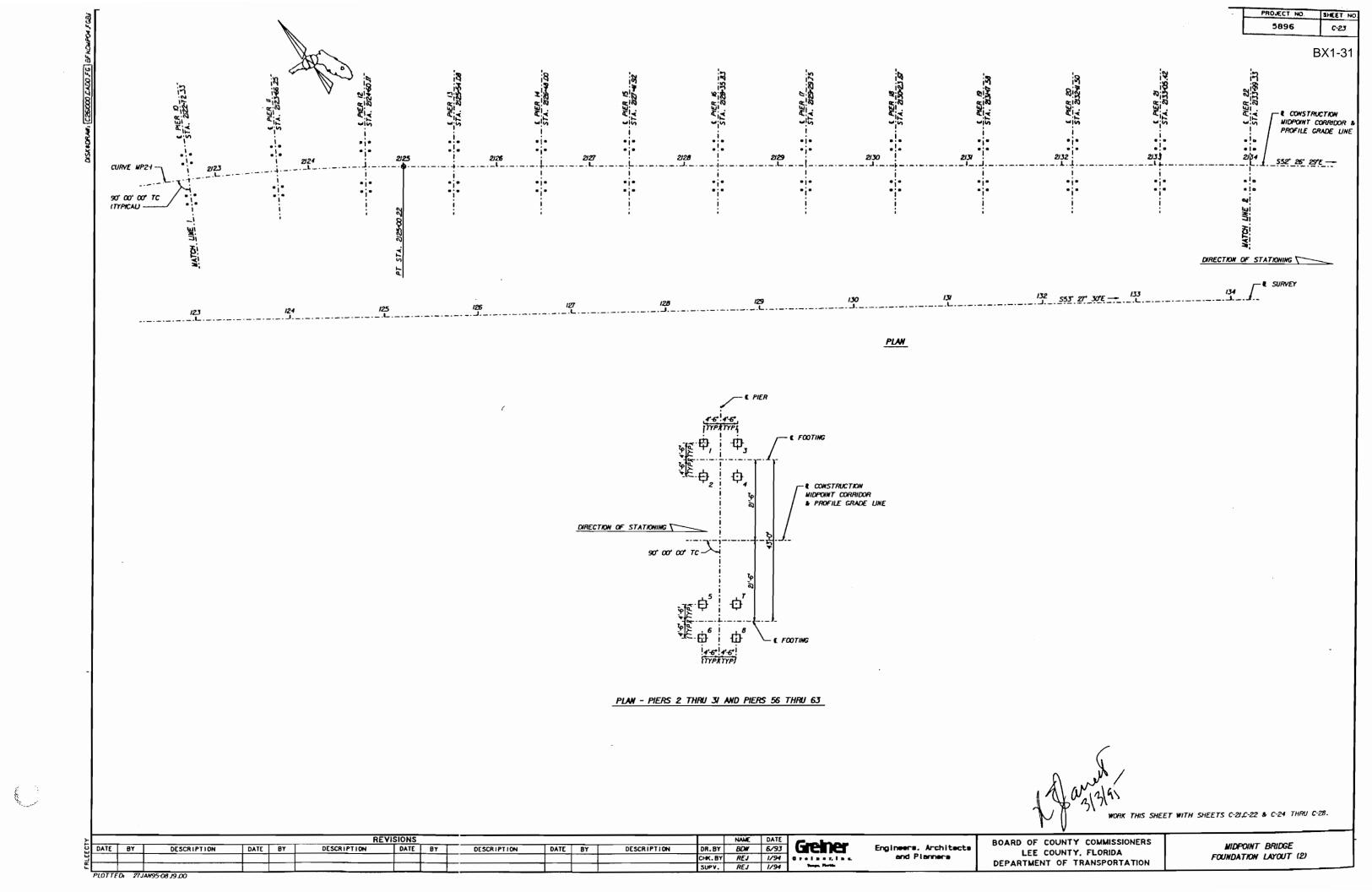
BOARD OF COUNTY COMMISSIONERS

LEE COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FOUNDATION LAYOUT NOTES

PROJECT NO SHEET NO 5896 C-22 BX1-30 R CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE -CURVE MP2--90° 00° 00° TC (TYPICAL) __ & SURVEY PLAN & BATTERED PILES & PLUMB PILES Trestre € FOOTING - & CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE DIRECTION OF STATIONING BEGIN BRIDGE FFBW END BENT I STA. 2114-27.08 - & CONSTRUCTION MIDPOINT CORRIDOR
AND PROFILE GRADE LINE ser our our re 90° 00° 00° TC -Ф, - € FOOTING PLAN - PIERS/2 THRU 31 AND PIERS 56 THRU 63 WORK THIS SHEET WITH SHEETS C-21 & C-23 THRU C-28. PLAN - END BENT I REVISIONS DATE BY DR. BY BDV 6/93 Greiner
CHK. BY REJ 1/94
SUPV. REJ 1/94 DATE BY BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DESCRIPTION DATE BY DESCRIPTION DESCRIPTION MIDPOINT BRIDGE FOUNDATION LAYOUT (I) DATE BY DESCRIPTION Engineers. Architects and Planners DEPARTMENT OF TRANSPORTATION

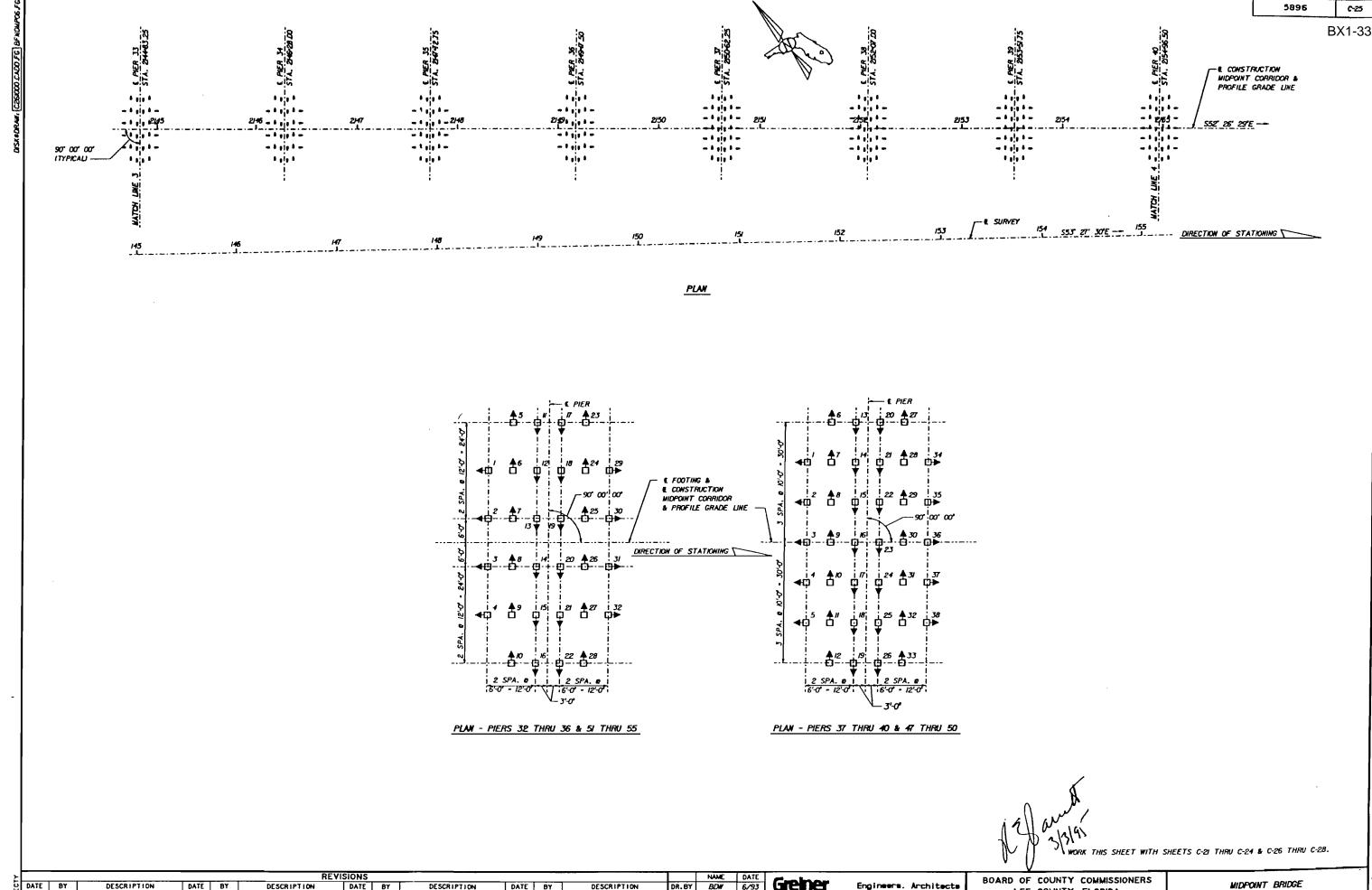


PROJECT NO SHEET NO 5896 C-24 BX1-32 STA. 213-99 33 STA. 23493.25 HATCH UNE 3 - STA. 244483.25 - & CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE • , į, • 2136 - 4 1/4 4 -2137 2139 2110 2/43 - 1 1/4 1 -\$52' 26' 29'E ---- 4 1/1 4 -90' 00' 00' 4 7 7 DIRECTION OF STATIONING PLAN ф₂ r-1. CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE **€** CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE DIRECTION OF STATIONING 90° 00' 00' TC -DIRECTION OF STATIONING φ, PLAN - PIERS 2 THRU 31 AND PIERS 56 THRU 63 PLAN - PIERS 32 THRU 36 & 51 THRU 55 THIS SHEET WITH SHEETS C-21,C-22,C-23 & C-25 THRU C-28. REVISIONS DR.BY BDW 6/93 CHK.BY REJ 1/94 SUPV. REJ 1/94 Greiner BOARD OF COUNTY COMMISSIONERS MIDPOINT BRIDGE DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION Engineers. Architects LEE COUNTY, FLORIDA

and Planners

DEPARTMENT OF TRANSPORTATION

FOUNDATION LAYOUT (3)

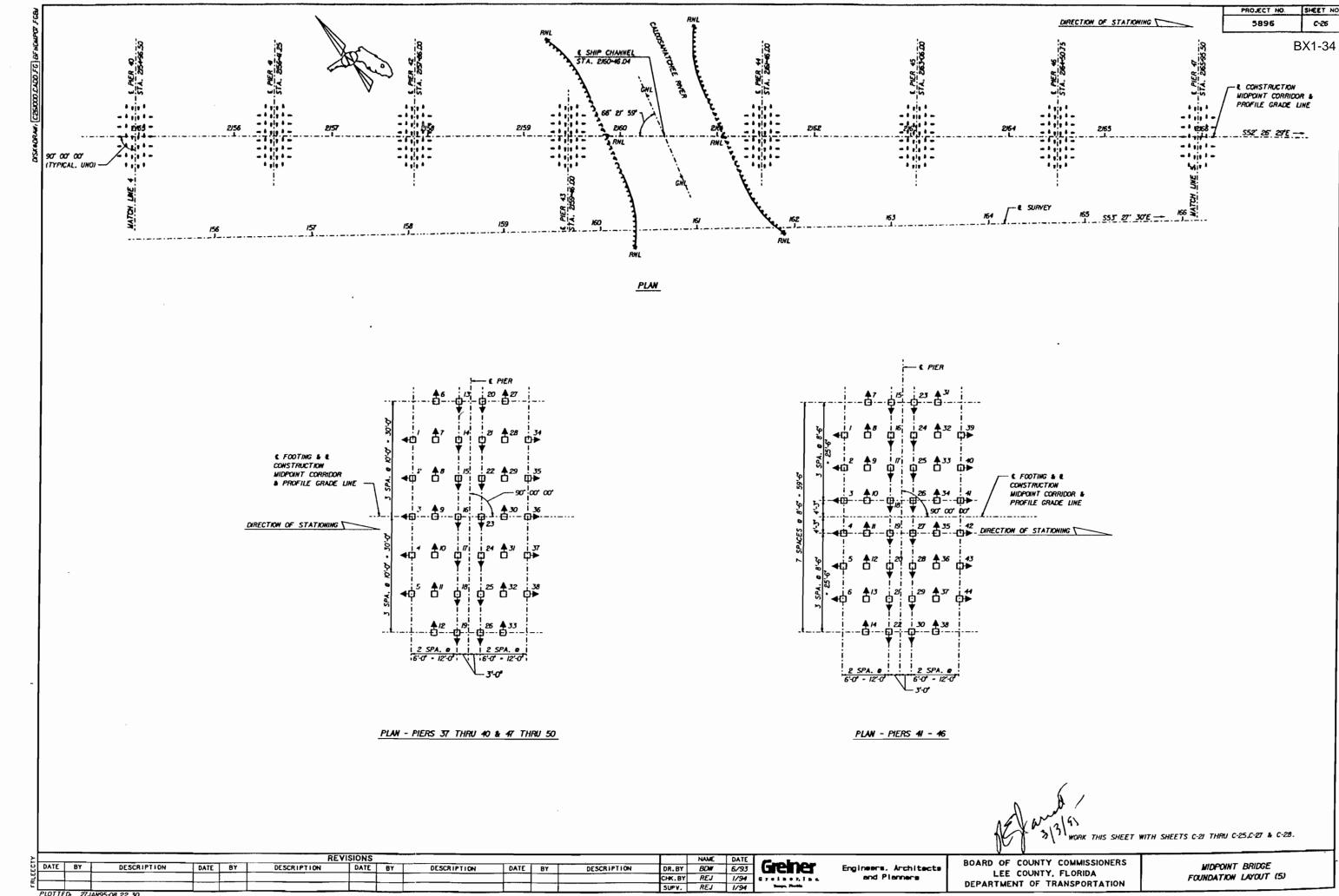


PROJECT NO.

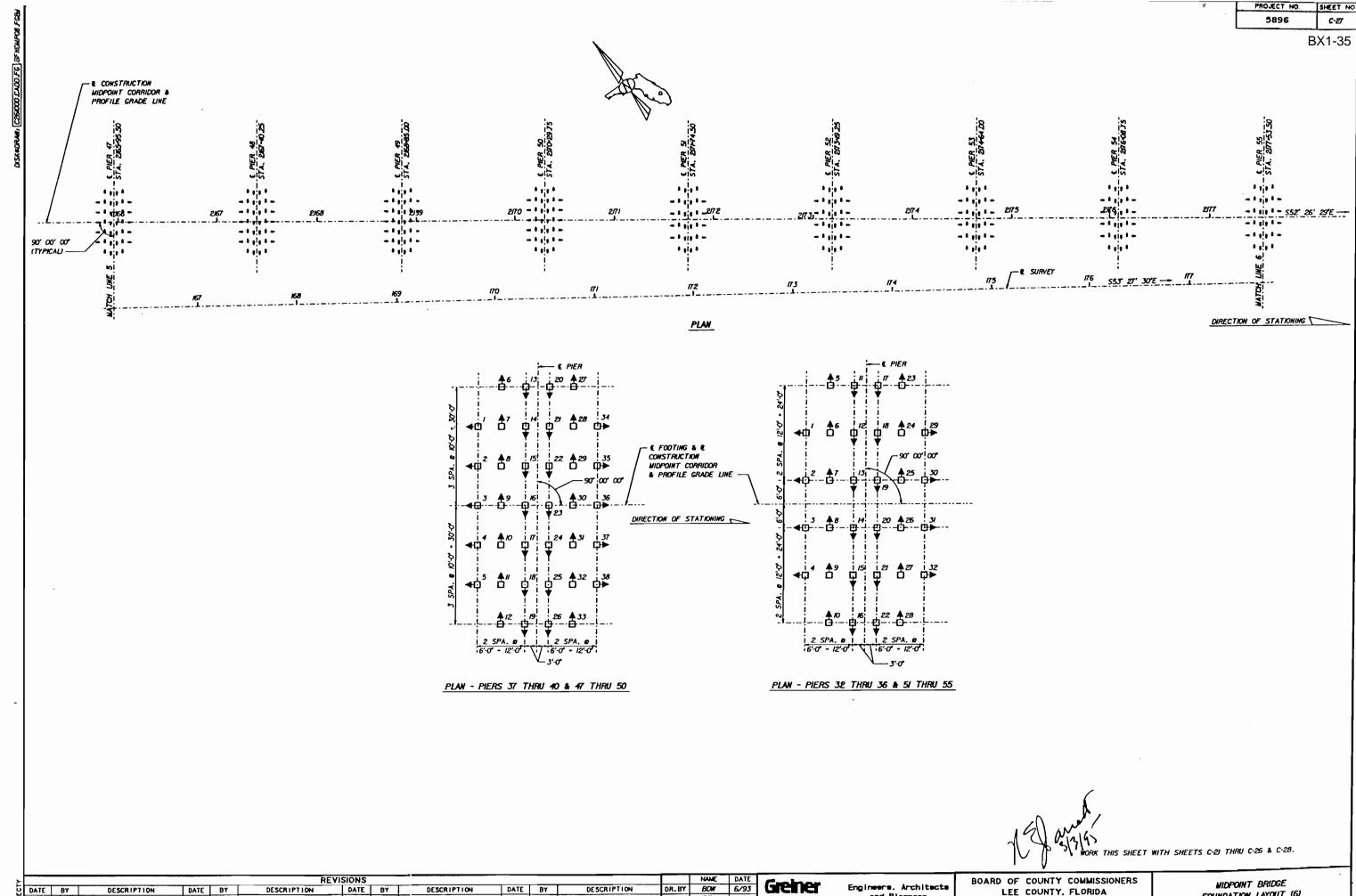
SHEET NO

REVISIONS
TE BY DESCRIPTION DATE BY DESCRIPTIO

PIOTTED: 27JAN95-08.20.40

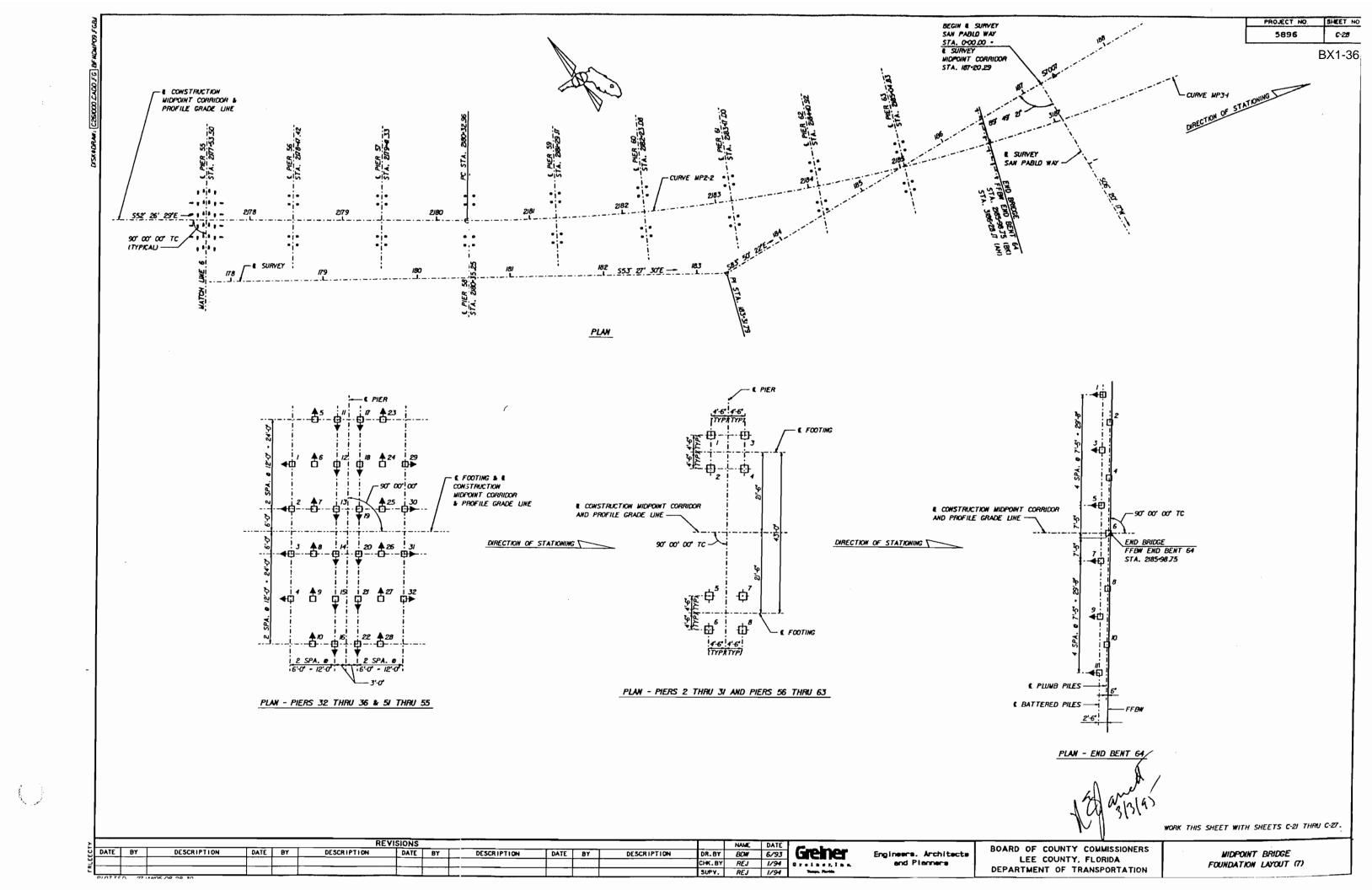


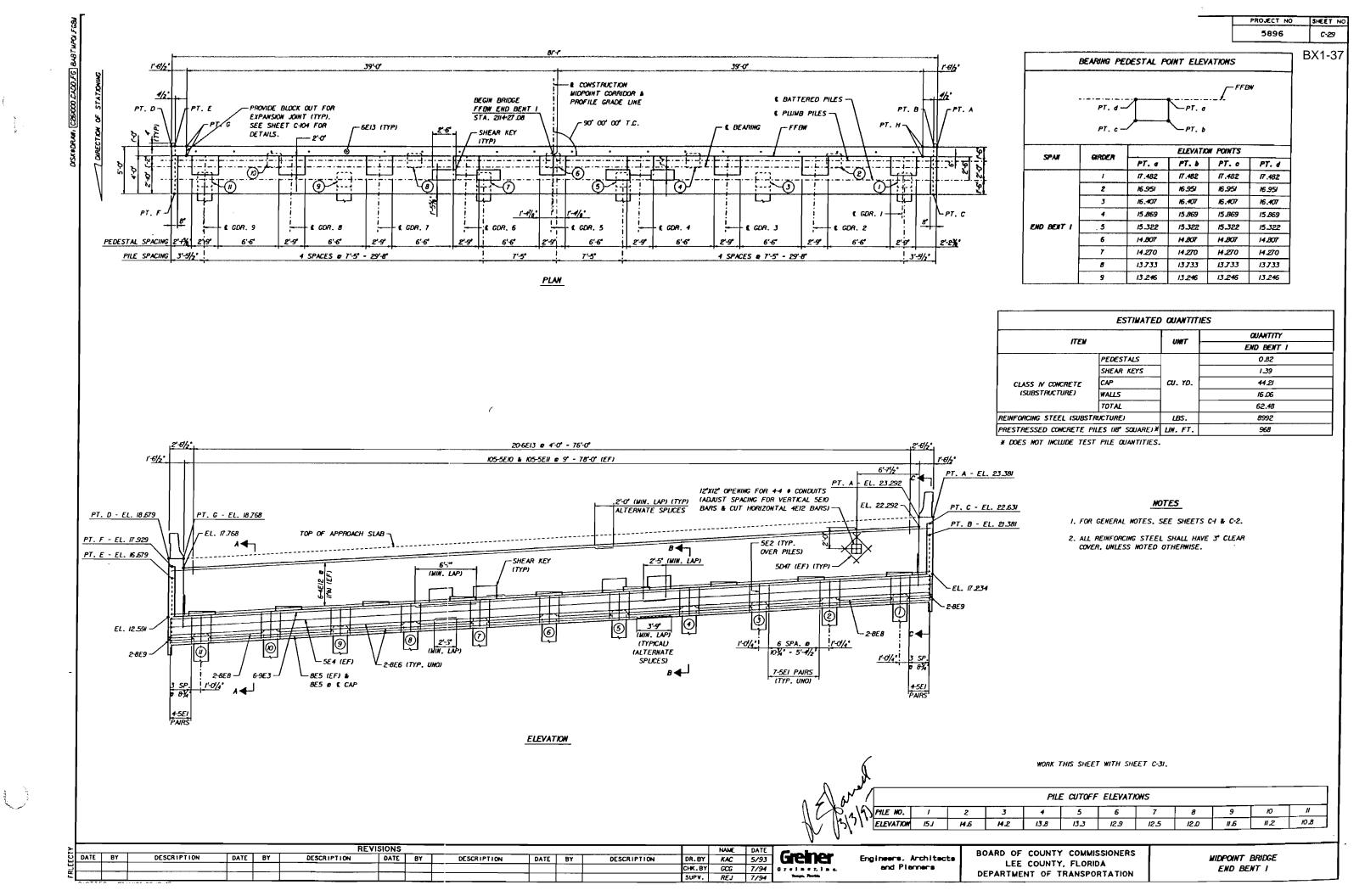
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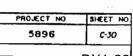


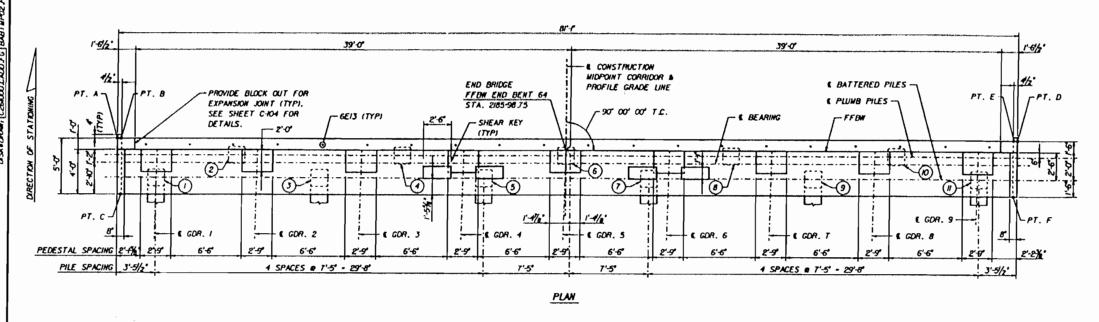
DESCRIPTION DR.BY BOW 6/93
CINC.BY REJ 1/94
SUPV. REJ 1/94
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SUPV. REJ 1/94

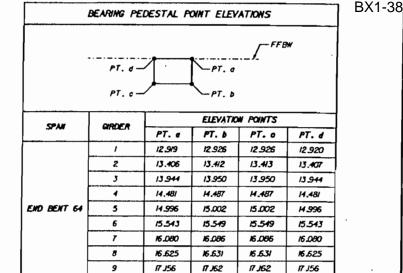
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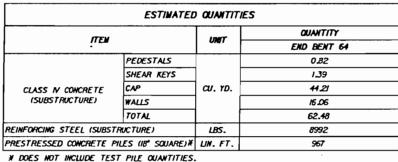


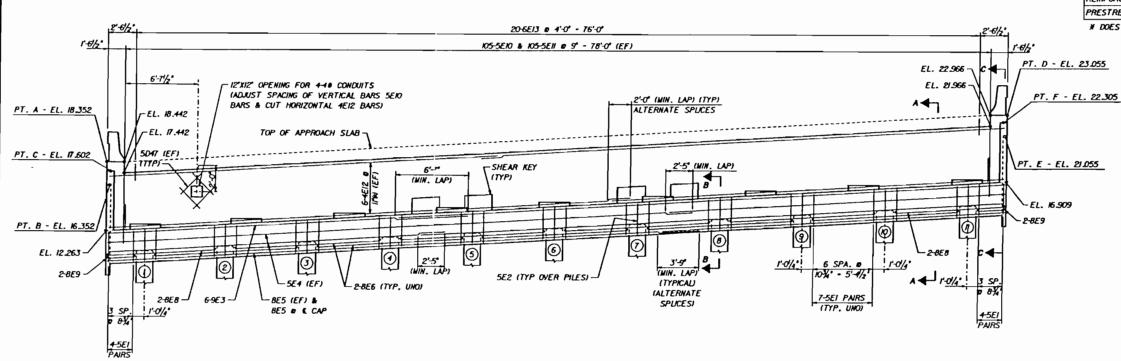












ELEVATION

MOTES

- I. FOR GENERAL MOTES. SEE SHEETS C-1 & C-2.
- 2. ALL REINFORCING STEEL SHALL HAVE 3 CLEAR COVER, UNLESS NOTED OTHERWISE.

WORK THIS SHEET WITH SHEET C-31. PILE CUTOFF ELEVATIONS PILE NO. 5 6 Ю 14.3 ELEVATION 10.4 ns. 11.3 13.9 *11 J* 12.2 12.5 13.0 13.5

ដ	DATE	8Y	DESCRIPT
3			
£			

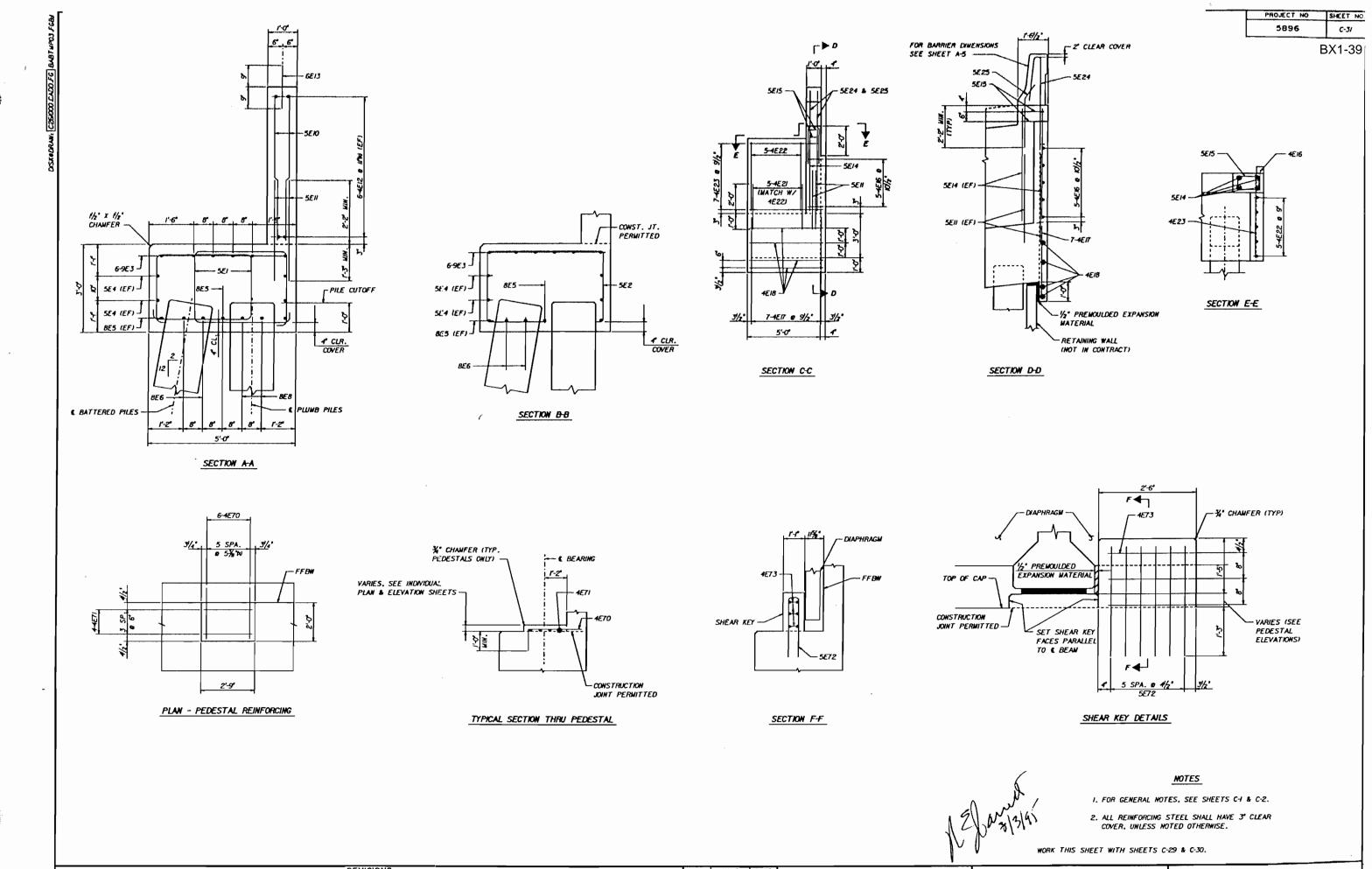
REVISIONS DATE BY DESCRIPTION DR.BY KAC 5/93 CHK.BY GCG 7/94 DESCRIPTION DATE BY DATE BY DESCRIPTION SUPV. REJ 7/94

Greiner

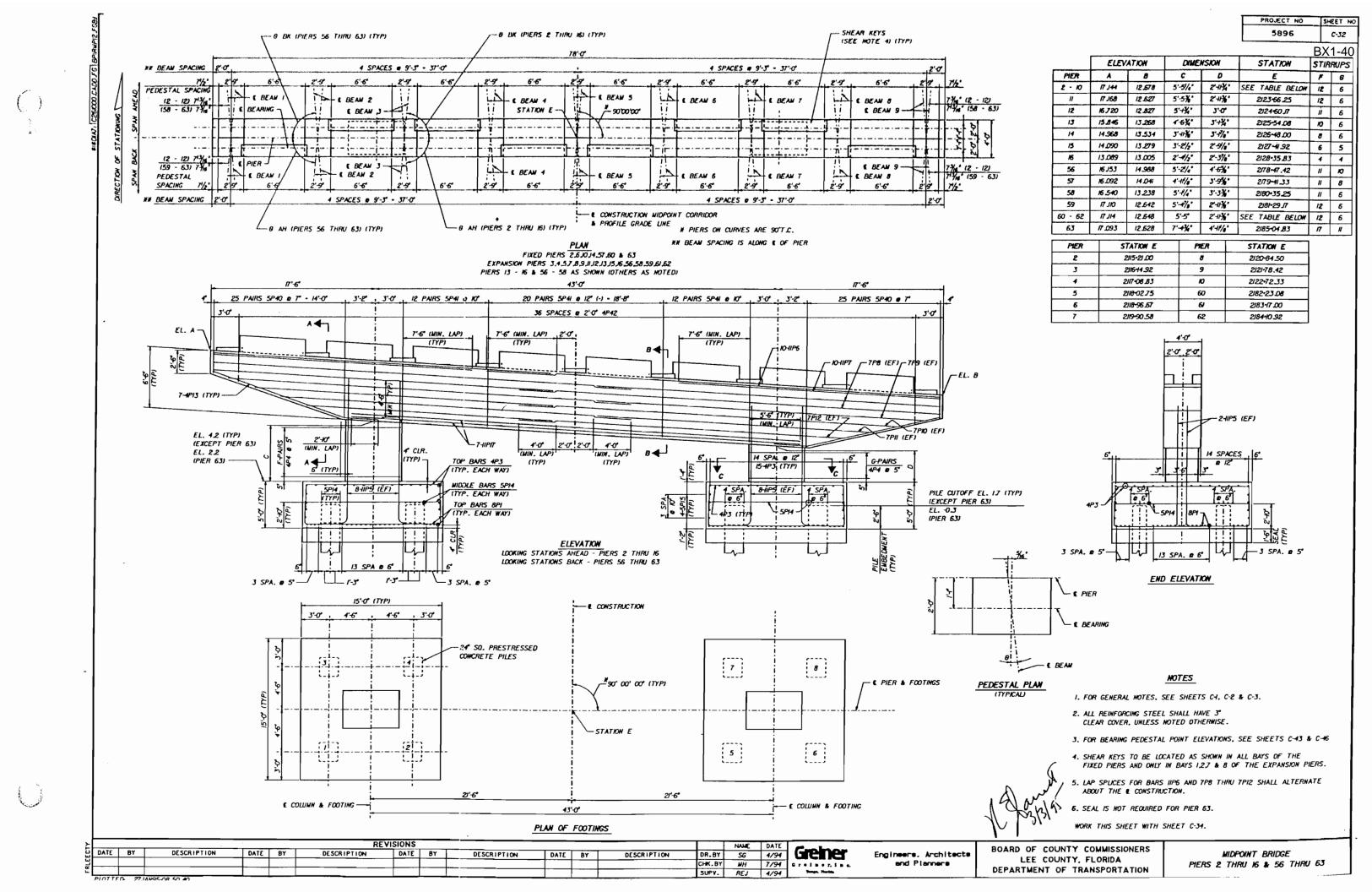
Engineers, Architects and Planners

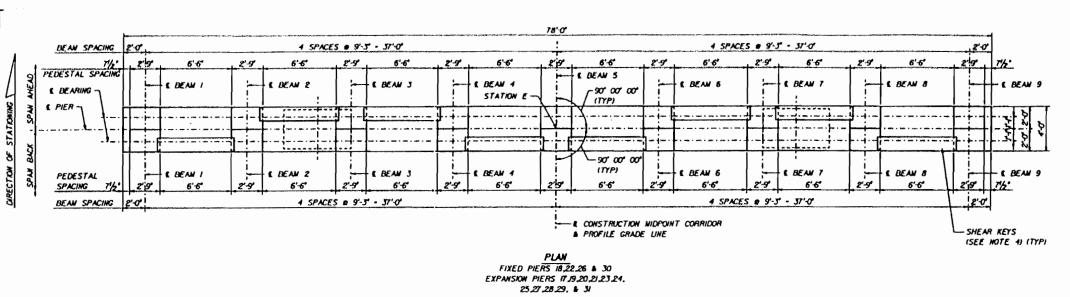
BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

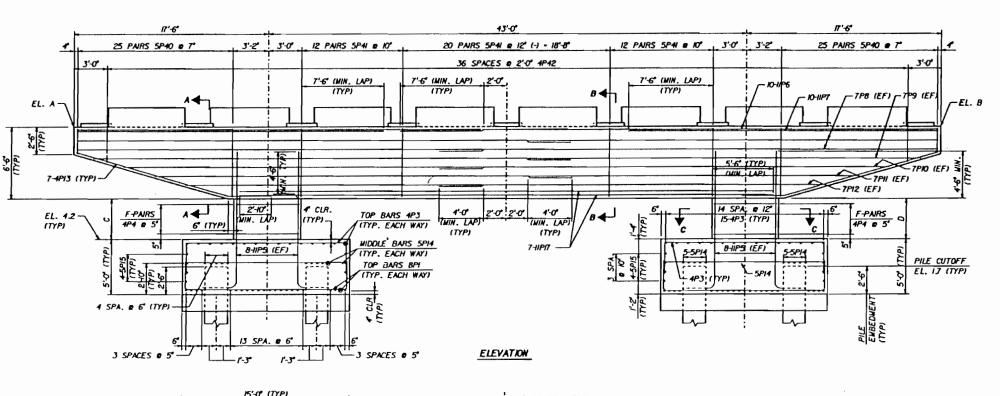
MIDPOINT BRIDGE END BENT 64

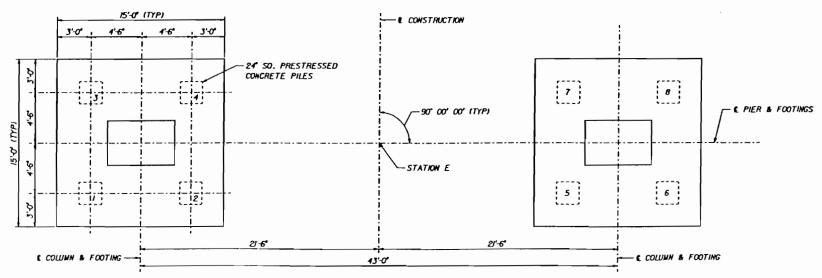


REVISIONS BOARD OF COUNTY COMMISSIONERS Greiner MIDPOINT BRIDGE DR.BY KAC 6/93 CHK.BY GCG 6/93 DATE BY Engineers, Architects DESCRIPTION DESCRIPTION DESCRIPTION DATE BY DATE BY DATE BY LEE COUNTY, FLORIDA END BENT DETAILS G 7 0 1 2 0 7, 1 2 4. and Planners DEPARTMENT OF TRANSPORTATION SUPV. REJ 6/93









DESCRIPTION

DR. BY

CHK.BY

PLAN OF FOOTINGS

DATE BY

DESCRIPTION

REVISIONS

DATE BY

DESCRIPTION

DESCRIPTION

DATE BY

PLOTTED: 27.JAN95-08.24.20

DATE BY

Engineers, Architects and Planners

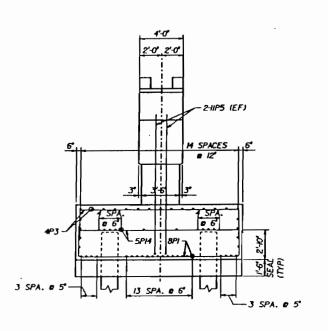
BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION MIDPOINT BRIDGE PIERS IT THRU 31

	ELEV	ATION	DIME	NSION	STATION	STIRRUPS
MER	A	В	С	D	Ε	F
17	12712	12.792	2'-0%'	2-0//8'	229-29.75	4
18 - 27	12.822	12.822	2'4/2"	2.4/2"	SEE TABLE BELOW	4
28	12 376	12.376	2'-0%	2-0%	2/39-62 B3	4
29	12.882	12,882	2-2/4	2-2/4	2140+56.75	5
30	13.409	13.409	2.4/2.	2-8/3"	214+50.67	6
3/	14.379	14_379	3'-6/6"	3'-8/4"	2/42~44.58	8

PROJECT NO.

C-33

PIER	STATION E	PIER	STATION E
18	2/30-23.67	23	2/34-93-25
19	2/3/47 .58	24	2/35-87 17
20	2/32-//-50	25	2/36-8/.08
21	2/33-05.42	26	2/37-75.00
22	2/33-99-33	27	2/38-68.92



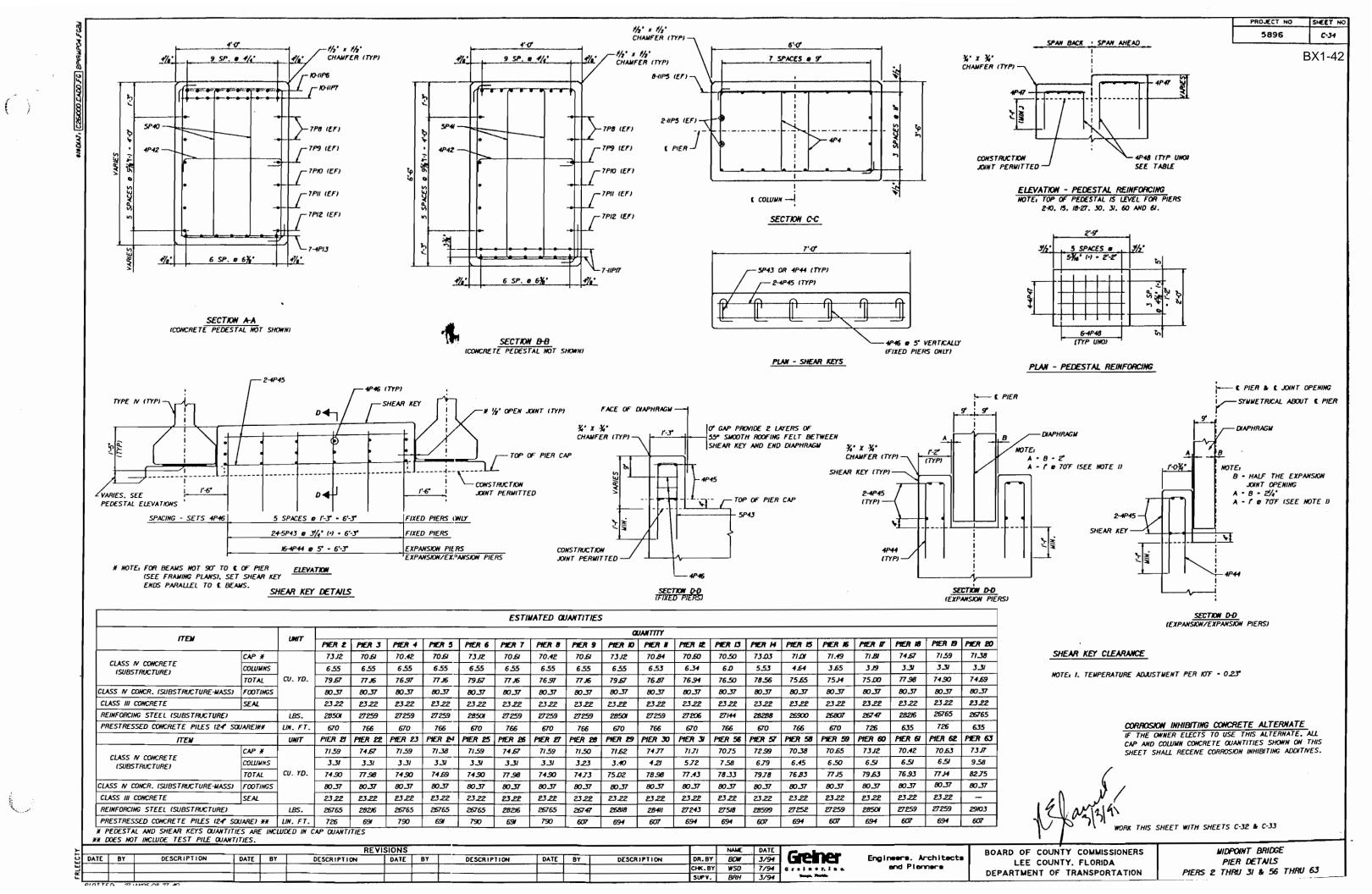
END ELEVATION

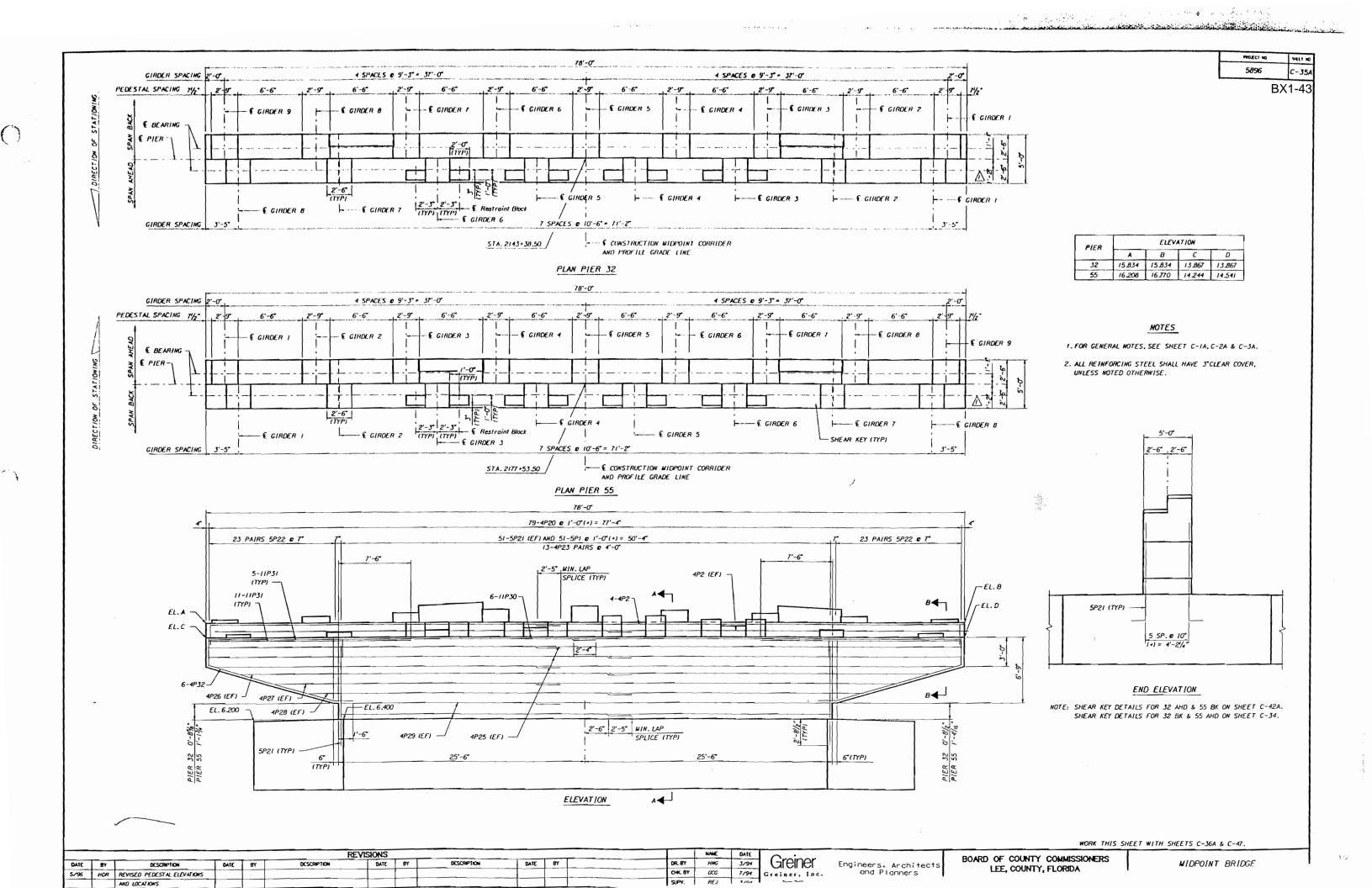
MOTES

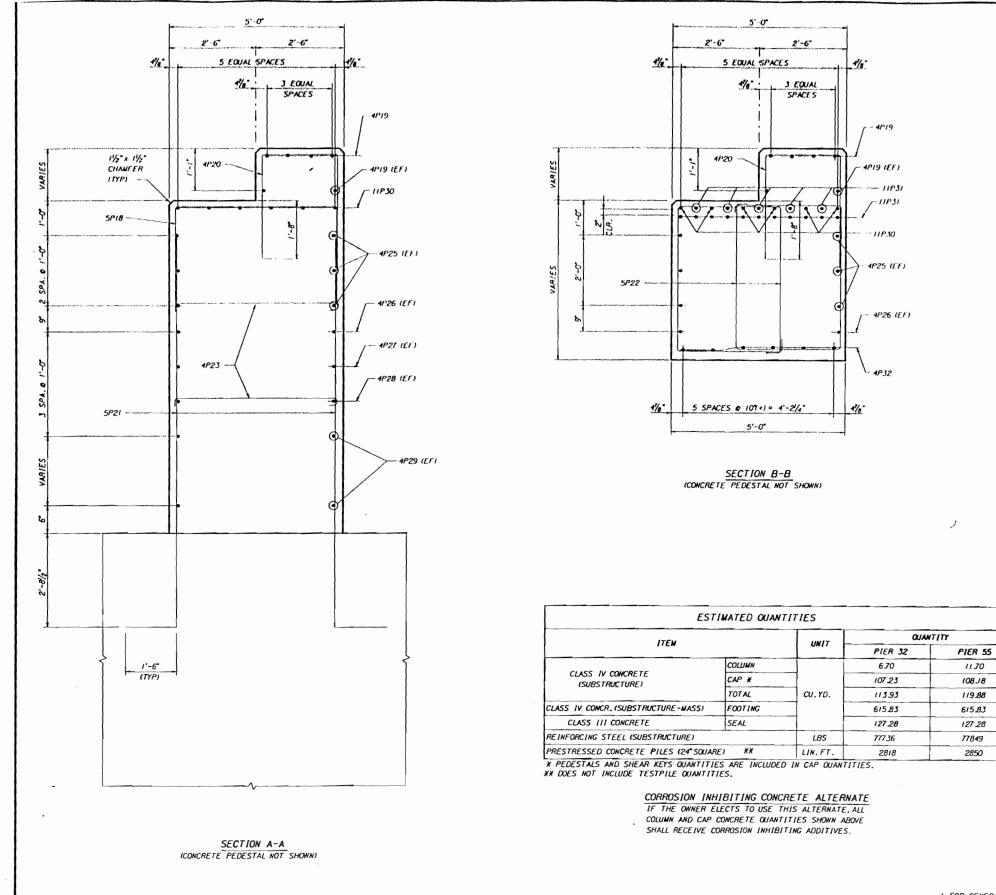
- I. FOR GENERAL MOTES. SEE SHEETS C4. C-2 & C-3.
- 2. ALL REINFORCING STEEL SHALL HAVE 3° CLEAR COVER, UNLESS NOTED OTHERWISE.

WORK THIS SHEET WITH SHEET C-34

- 3. FOR BEARING PEDESTAL POINT ELEVATIONS, SEE SHEETS C-43 & C-44.
- 4. SHEAR KEYS TO BE LOCATED AS SHOWN IN ALL BAYS OF THE FIXED PIERS AND ONLY IN BAYS 1.2.7 & 8 OF THE EXPANSION PIERS.
- 5. LAP SPLICES FOR BARS 11P6 AND 7P8 THRU 7P12 SHALL ALTERNATE ABOUT THE € CONSTRUCTION.







SYMMETRICAL ABOUT & PILR

SYMMETRICAL ABOUT & PILR

6-4P48

(TYP UNO)

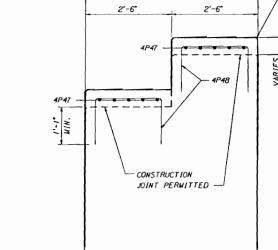
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PLAN - PEDESTAL REINFORCING

SYMMETRICAL ABOUT & PIER 50 5 5 SPACE 0 31/2"

5 SPACE 0

PLAN - PEDESTAL REINFORCING
(PIER 32 AND AND PIER 55 BK)



ELEVATON - PEDESTAL REINFORCING

NOTES

- 1. FOR GENERAL NOTES, SEE SHEET C-1A, C-2A & C-3A.
- 2. ALL REINFORCING STEEL SHALL HAVE 3"CLEAR COVER, UNLESS NOTED OTHERWISE.

WORK THIS SHEET WITH SHEETS C-35A, C-42A & C-47.

-¾*x ¾* CHAMFER (TYP)

Engineers, Architects and Planners

and the second of the second

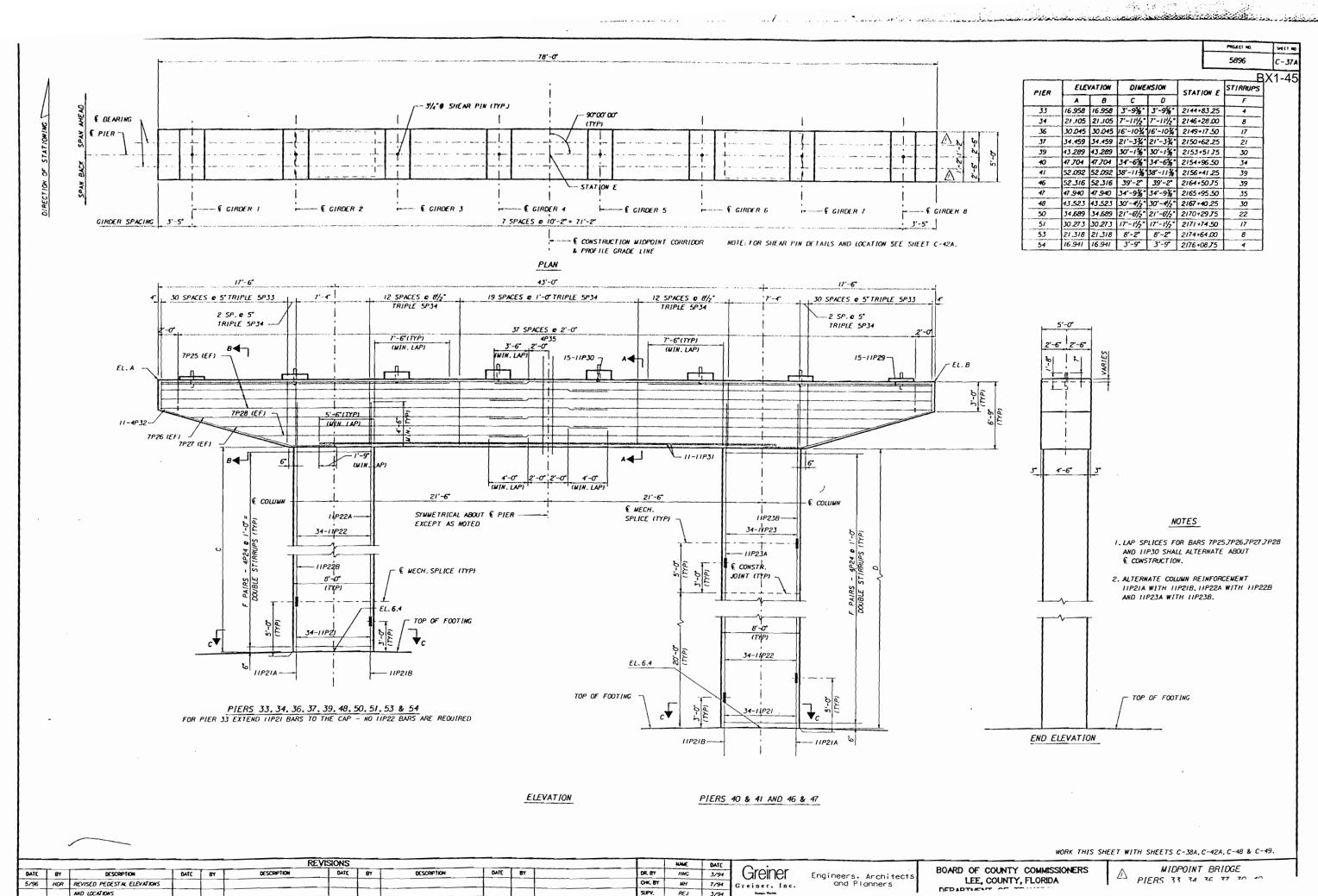
BOARD OF COUNTY COMMISSIONERS
LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSCORP

MIDPOINT BRIDGE

5896

C-36A

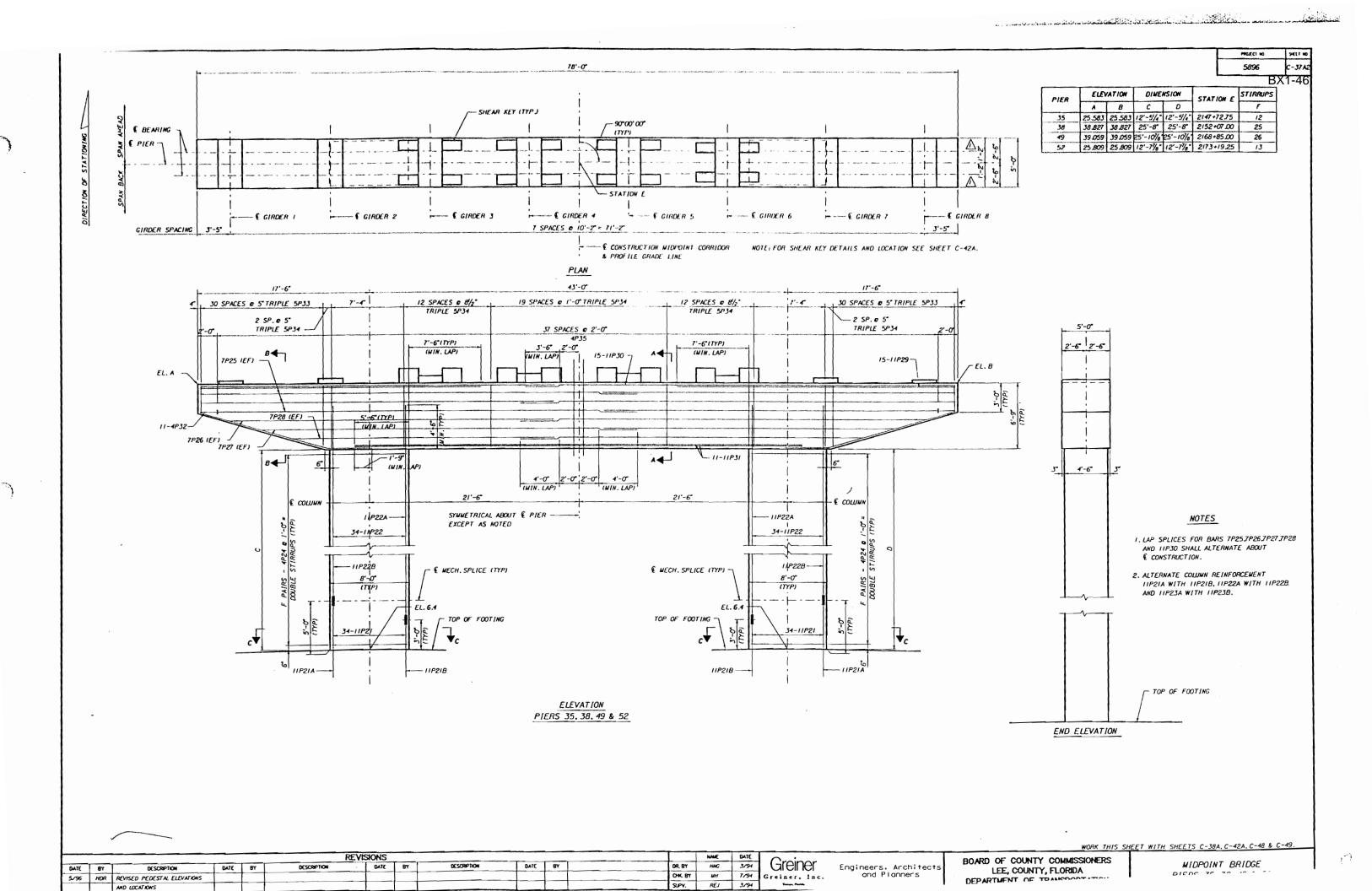
BX1-44

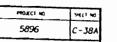


REJ 3/94

AND LOCATIONS

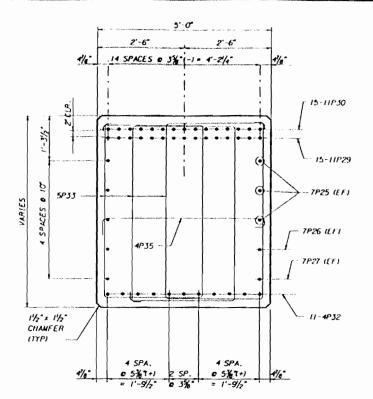
16-





and the second of the second o

BX1-47



11/5" x 11/5" CHANFER (TYP) SPACES 0 7/7. 1/2 11 SPACES 0 7%(+) = 7'-3" IIP2I (EF)

NOTES

SECTION C-C

- 1. FOR GENERAL NOTES. SEE SHEET C-IA THRU C-3A.
 2. ALL REINFORCING STEEL SHALL HAVE 3
- CLEAR COVER, UNLESS NOTED OTHERWISE.
- 3. BEARING PEDESTAL POINT ELEVATIONS HAVE BEEN ADJUSTED TO PROVIDE A BEARING SURFACE PARALLEL TO THE BOTTOM OF THE BEAM AFTER SLAB PLACEMENT. THE ADJUSTMENTS IN ELEVATION HAVE BEEN BASED ON THE VALUES SHOWN IN THE "BUILDUP AND DEFLECTION DATA TABLE ON SHEETS C-44A & C-45A.
- 4. WECHANICAL COUPLERS SHALL BE CAPABLE OF
- DEVELOPING 125% Fy OF BARS.
- 5. COST OF ALL LABOR AND MATERIALS REQUIRED TO FURNISH AND INSTALL MECHANICAL COUPLERS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REINFORCING STEEL (SUBSTRUCTURE), ITEM NO. 415-1-5.
- 6. LAP SPLICES MAY BE USED IN LIEU OF MECHANICAL COUPLERS. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING CLASS "C"SPLICES FOR #11 COLUMN BARS.
- 7. IF THE OWNER ELECTS TO USE THE CORROSION INHIBITING CONCRETE ALTERNATE, CAP AND COLUMN CONCRETE QUANTITIES SHALL BE ADJUSTED AS SHOWN IN THE TABLE. COLUMN CORROSION INHIBITING CONCRETE IS TO BE PLACED FROM THE FOOTING TO THE FIRST CONSTRUCTION JOINT.

7P27 (EF) 7P28 (EF) L 11-11P31

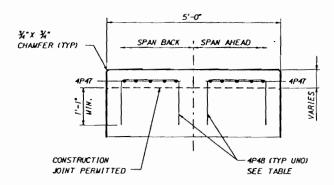
15-11P30

- 7P25 (EF)

7P26 (EF)

SECTION A-A (CONCRETE PEDESTAL NOT SHOWN)

0 5 / 7+1



14 SPACES 0 3%"(-) = 4'-2/4"

4P35

e 5//2*+)

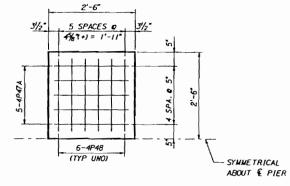
5P34

11/5" x 11/2"

CHAMFER

ELEVATION - PEDESTAL REINFORCING

SECTION B-B



PLAN - PEDESTAL REINFORCING

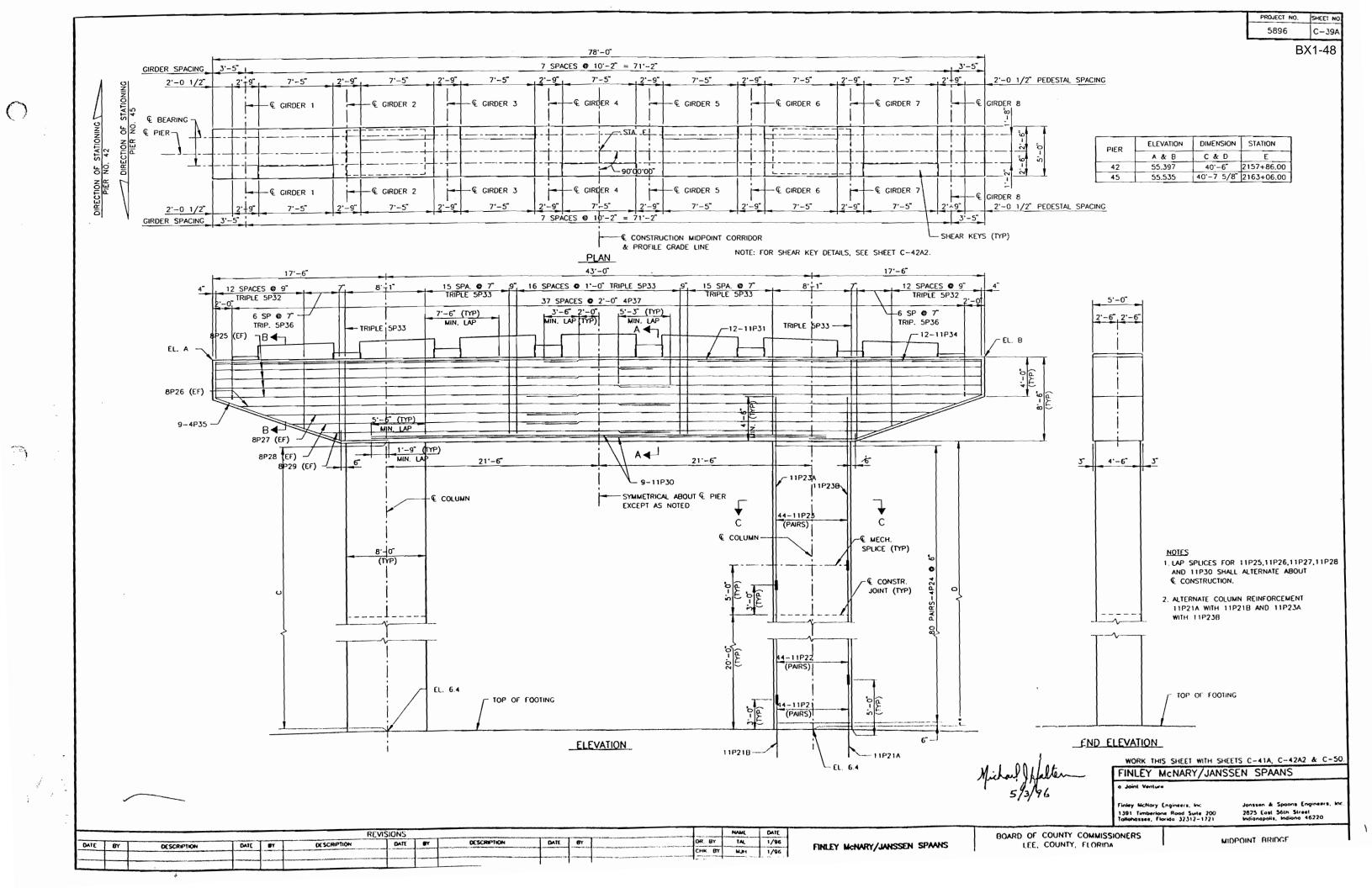
								ES	TIMATED C											
1754									ISEE NO	<i>''</i>	QUA	NTITY								
CLASS IV CONCRETE (SUBSTRUCTURE) ASS IV CONC, (SUBSTRUCTURE-MASS) FOOTING FOOTING		UNIT	PIER 33	PIER 34	PIER 35	PIER 36	PIER 37	PIER 38	PIER 39	PIER 40	PIER 41	PIER 46	PIER 47	PIER 48	PIER 49	PIER 50	PIER 51	PIER 52	PIER 53	PIER 54
	CAP *	\triangle	91.00	91.19	92.76	90.99	90.99	92.76	90.99	91.04	91.20	9(.17	91.06	90.99	92.76	90.99	90.99	92.76	91.21	9171
	COLUMNS	\triangle	10.15	21.21	33./5	45.05	56.82	68.47	80.37	92.14	103.85	104.44	92.77	80.99	69.09	57.44	45.66	33.76	21 78	10.11
	TOTAL	cu.ro.∧	101.16	112.40	125.92	136.04	147.81	161 24	171.36	183.18	195.04	195.62	183.83	171.98	161.85	148.42	136.65	126.52	112.99	101.82
CLASS IV CONC. (SUBSTRUCTURE-MASS)	FOOT INGS		615.83	615.B3	615.83	615.B3	612.16	612.16	612.16	612.16	608.50	608.50	612.16	612.16	612.16	612.16	615.83	615.83	615.83	615.83
CLASS III CONCRETE	SEAL		127.28	127.28	127.28	127.28	125.94	125.94	125.94	125.94	124.51	124.51	125.94	125.94	125.94	125.94	127.28	127.28	127.28	127.28
REINFORCING STEEL (SUBSTRUCTURE)		LBS.	97857	98788	101290	102948	111126	113557	114974	116977	153496	155586	117147	115322	113911	111530	102783	101430	98937	97433
PRESTRESSED CONCRETE PILES 124" SOUA	FORCING STEEL (SUBSTRUCTURE) STRESSED CONCRETE PILES (24" SQUARE) **	LIN.FT.	2818	2818	2818	2818	3364	3364	3364	3364	3954	3909	3364	3364	3364	3364	2818	2914	2914	2914

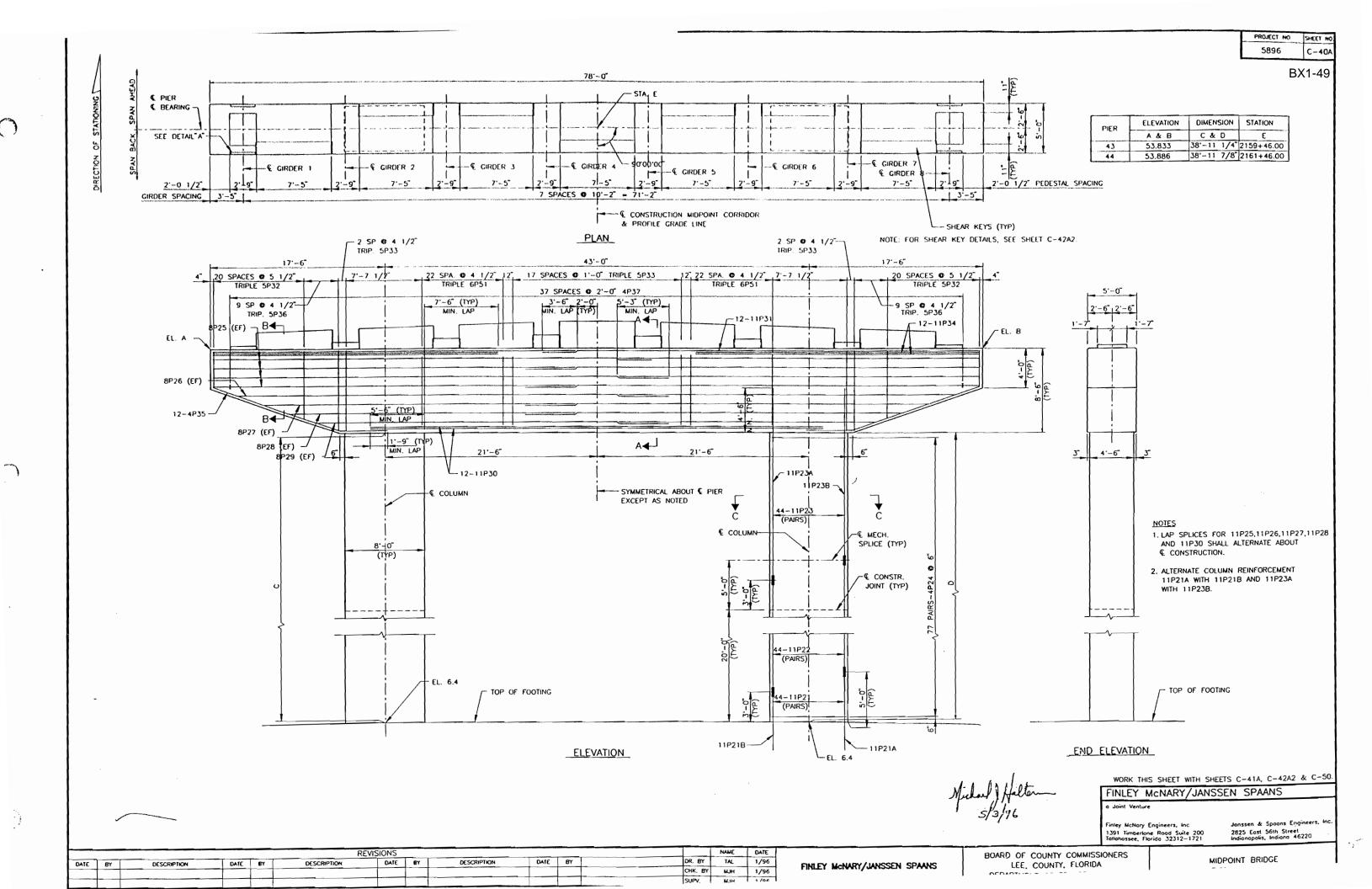
* PEDESTALS AND SHEAR KEYS QUANTITIES ARE INCLUDED IN CAP QUANTITIES.

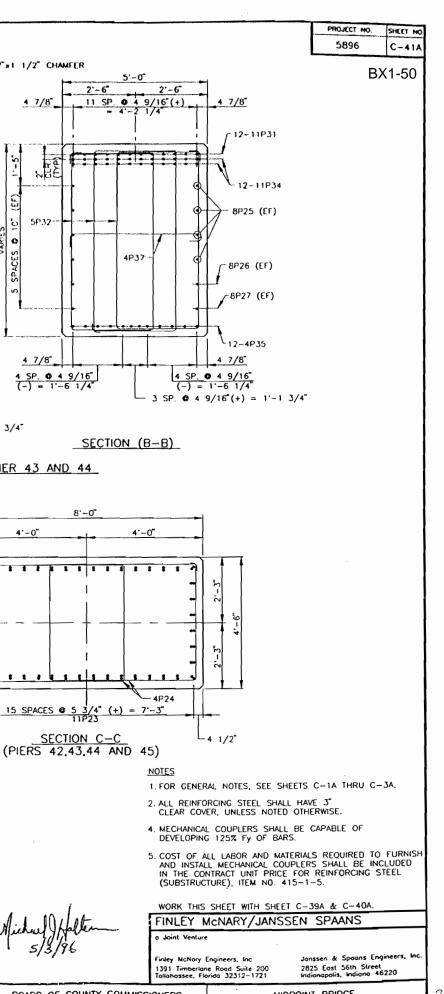
** DOES NOT INCLUDE TEST PILE QUANTITIES.

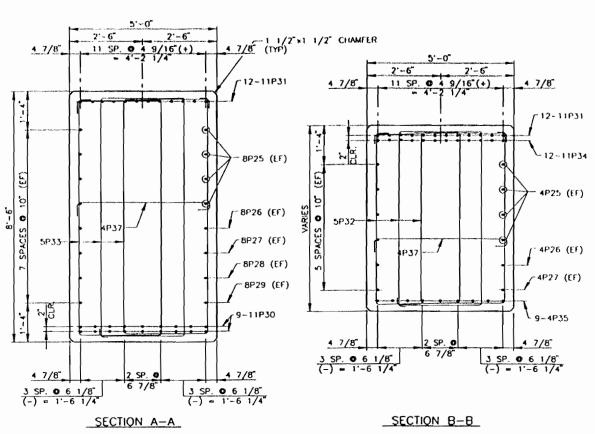
						ESTI				NCRETE AL		WANTITIES								
ITEU		UNIT									QUA	אווזץ								
ITEM		וואט	PIER 33	PIER 34	PIER 35	PIER 36	PIER 37	PIER 38	PIER 39	PIER 40	PIER 41	PIER 46	PIER 47	PIER 48	PIER 49	PIER 50	PIER 51	PIER 52	PIER 53	PIER 54
CLASS IV CONCRETE WITH CORROSION	CAP	CU. YD.	91.00																	9171
INHIBITING ADDITIVES (SUBSTRUCTURE)	COLUMNS	₾. 10.	10.15	21.21	33.15	45.05	56.82	68.47	80.37	53.34	53.34	53.34	53,34	80.99	69.09	57.44	45.66	33.76	21.78	10.11

											 						work this sh	EET WITH SHEET C-37A, C-37A2 & C-42A.
					RE	<u>EVISIONS</u>						HAVE	DATE	[]	O		BOARD OF COUNTY COMMESCIONERS	MIDPOINT BRIDGE
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DR. BY	HNG	3/94	77 (Greiner	Engineers, Architects	BOARD OF COUNTY COMMISSIONERS	
5/96	HDR	REVISED PEDESTAL ELEVATIONS								T	CHK, BY	шн	7/94	- G	einer. Inc.	and Planners	LEE, COUNTY, FLORIDA	PIER DETAILS
	1	AND LOCATIONS		_					T		SIEV	DE I	1.004		Transport		DEPARTMENT OF TRANSPORTATION	0100 77 -

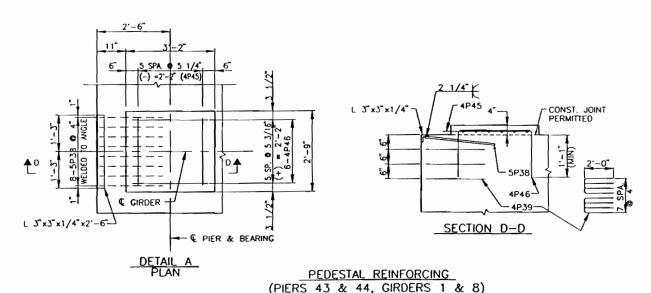








CAP SECTION PIER 42 AND 45



ESTIMATED QUANTITIES (SEE NOTE 7 ON SHEET C-38A) YTITHAUD UNIT ITEM PIER 42 PIER 43 PIER 44 PIER 45 118.03 | 121.17 | 121.17 | 118.03 CAP • CLASS IV CONCRETE (SUBSTRUCTURE) 108.00 103.84 103.98 108.37 COLUMNS 226.03 225.01 225.15 226.40 TOTAL CU. YD. 608.50 608.50 608.50 608.50 CLASS IV CONCR. (SUBSTRUCTURE-MASS) FOOTINGS 124.61 124.61 124.61 124.61 CLASS III CONCRETE LBS. 188324 200035 200035 188324 REINFORCING STEEL (SUBSTRUCTURE) PRESTRESSED CONCRETE PILES (24" SQUARE) •• LIN. FT. 3909 3909

• PEDESTALS AND SHEAR KEYS QUANTITIES ARE INCLUDED IN CAP QUANTITIES.
• DOES NOT INCLUDE TEST PILE QUANTITIES. 3909

CORROSION INHIBITING CONCRETE ALTERNATE QUANTITIES (SEE NOTE 7 ON SHEET C-38A, DEDUCT QUANTITIES FROM THE ABOVE) QUANTITY ITEM PIER 42 PIER 43 PIER 44 PIER 45 CLASS IV CONCRETE WITH CORROSION INHIBITING ADDITIVES COLUMNS CU. YO. 53.34 53.34 53.34 53.34 (SUBSTRUCTURE)

REVISIONS NAME DATE DESCRIPTION OR. BY TAL 1/96 DESCRIPTION DATE DATE BY DESCRIPTION DATE BY DATE BY MJH 1/96

FINLEY MCNARY/JANSSEN SPAANS

11 SP. 0 4 9/16 (+)

4P37-

SECTION (A-A)

5'-0"

10 SPA. 0 5" = 4'-2"

PLAN

CONSTRUCTION JOINT

PEDESTAL REINFORCING

(PIERS 43 & 44, GIRDERS 2 THRU 7)

PERMITTED

ELEVATION

5P33

4 7/8

8 +

4 SP. 0 4 9/16" (-) = 1'-6 1/4"

4 7/8" (TYP) CHAMFER

12~11P31

8P25 (EF)

"8P26 (EF)

78P27 (EF)

8P28 (EF)

BP29 (EF)

CAP SECTION PIER 43 AND 44

4'-0"

12-11P30

4 7/8"

 $3 \text{ SP. } \bullet 4 9/16^{-}(+) = 1'-1 3/4^{-}$

1 1/2" x 1 1/2" CHAMFER

4 SP. **0** 4 9/16" (-) = 1'-6 1/4"

4 7/8

4 7/8"

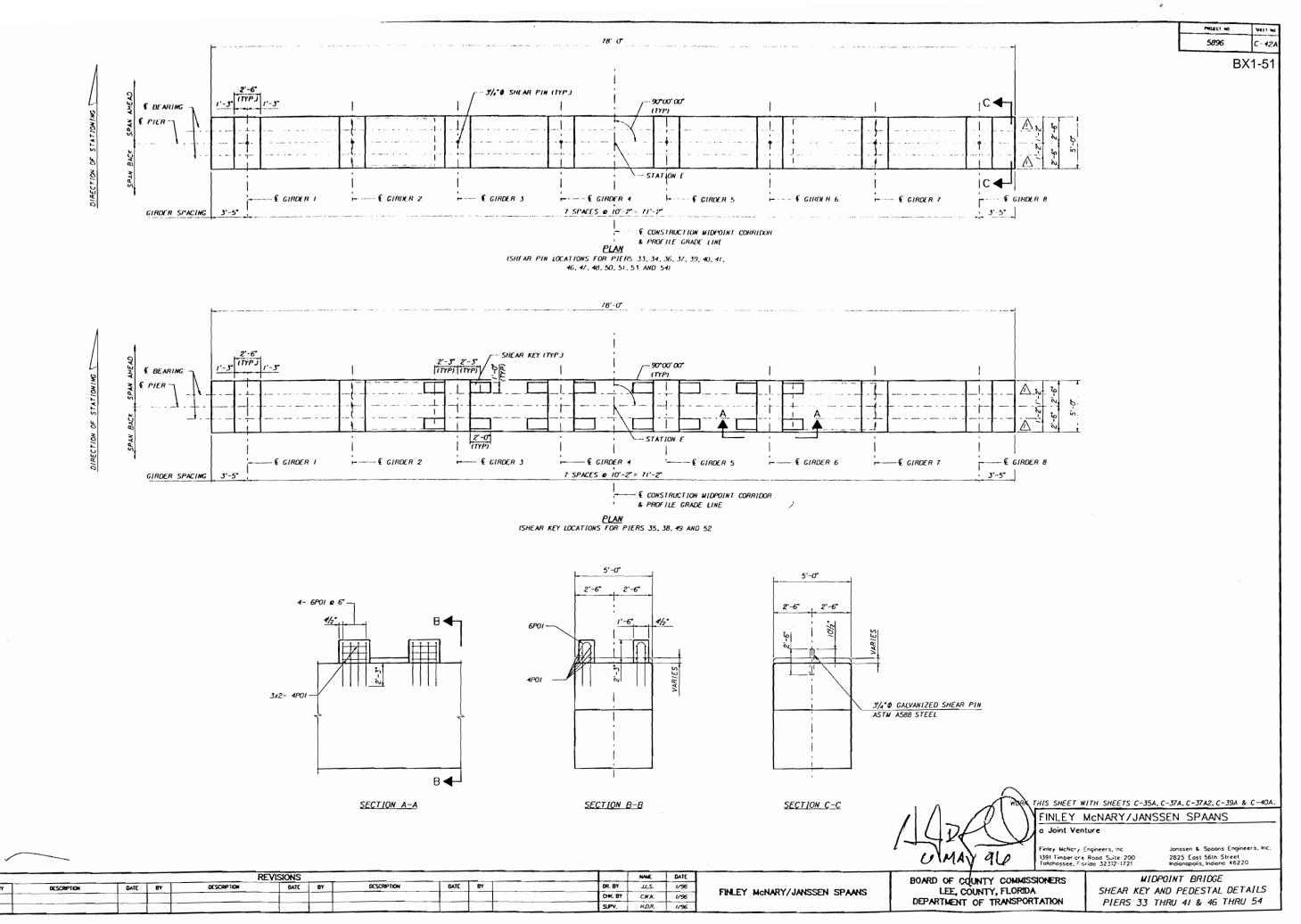
8.-0.

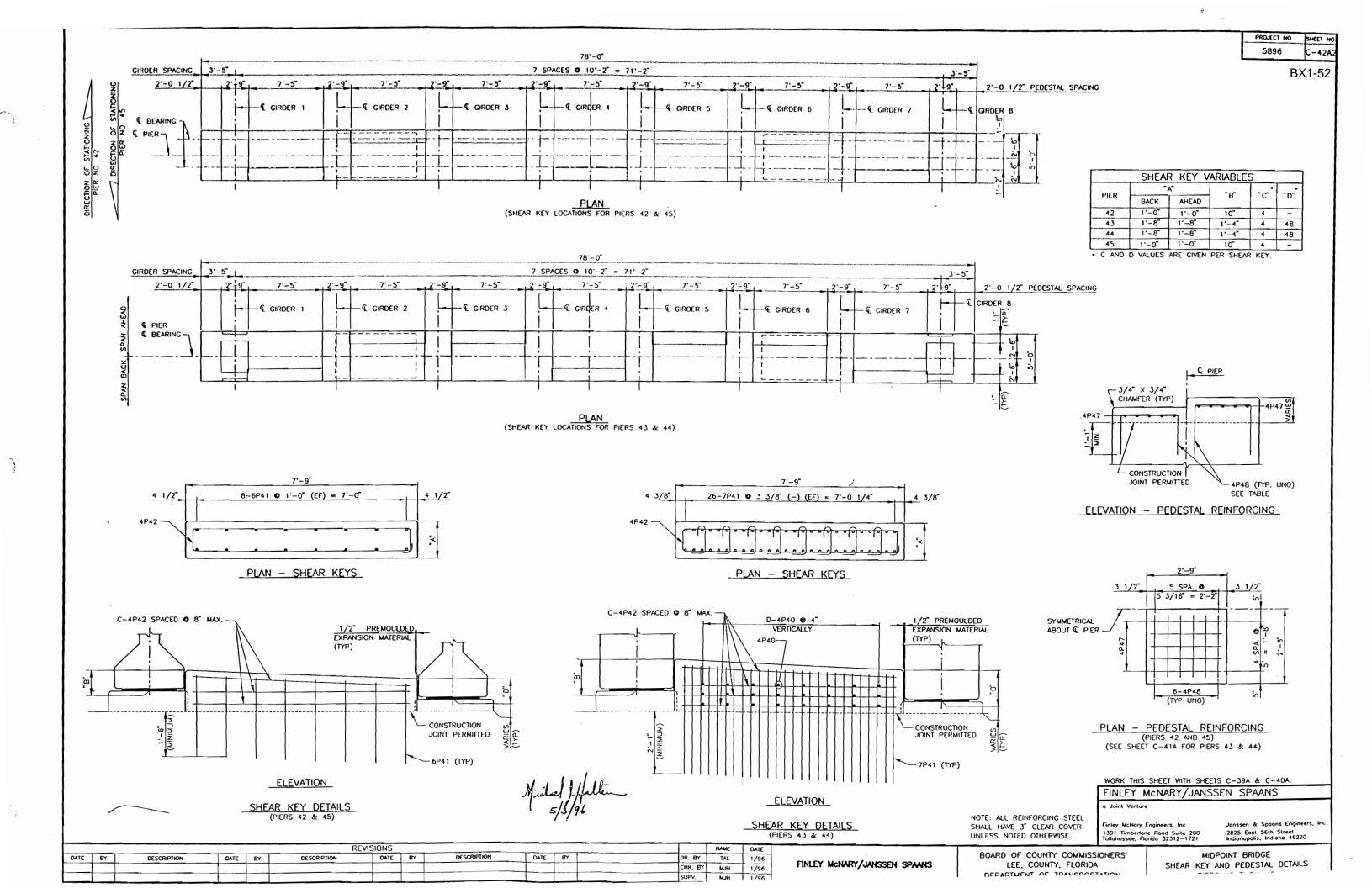
SECTION C-C

2.-6

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA

MIDPOINT BRIDGE PIER DETAILS





BEAR	RUNG PEDESTAL POINT ELEVATIONS
W M. SPW	PT. a PT. a PT. a PT. a PT. b PT. b
•,,	

		avence.	[ELEVATIO	W POINTS	
	SPAN	GIRDER	PT. a	PT. b	PT. o	PT. d
		1	17.482	17.482	17.482	17,482
- 1		2	18.951	16.951	18.951	16,951
- 1		J	18.407	16.407	16.407	16.407
- {		4	15.869	15.869	15.869	15.869
	SPAN	5	15.322	15.322	15.322	15.322
- 1	BACK	6	14.807	14.807	14.807	14.807
_ [7	14.270	14.270	14.270	14.270
2		8	13.733	13.733	13.733	13.733
3		9	13.246	13.246	13.246	13,246
~		,	17.482	17.482	17.482	17.482
PERS		2	16.951	16.951	16.951	16.951
2		3	18.407	15, 407	16.407	15.407
- 1	SPAN	4	15.869	15.869	15.869	15.869
ł	AHEAD	5	15.322	15.322	15.322	15.322
H		6	14.807	14.807	14.807	14.807
		7	14.270	14,270	14.270	14,270
H		8	13.733	13.733	13.733	13.733
-		9	13.246	13.246	13.248	13.248
		,	17.482	17.482	17.482	17.482
- 1		2	16.951	18.951	16.951	16.951
- 1		3	15.407	16.407	16.407	15,407
J		4	15.869	15.869	15.869	15.889
- 1	SPAN BACK	5	15.322	15.322	15.322	15.322
		6	14.807	14.807	14.807	14.807
- (7	14.270	14.270	14.270	14.270
- 1		8	13.733	13.733	13.733	13.733
=		9	13.246	13.246	13.248	13, 248
5		,	17.688	17.678	17.678	17.688
~		2	17.122	17.114	17.114	17.122
- {		3	16.543	16.536	16.536	16.542
- 1	CO.11	4	15.970	15.966	15.965	15.970
-	SPAN AHEAD	5	15.388	15.385	15.383	15.388
		6	14.838	14.837	14.837	14.838
- 1		7	14.266	14, 286	14.288	14.265
		8	13.694	13.696	13.696	13.694
- [9	13.172	13.176	13, 176	13.172
\dashv		1	17.224	17.234	17.233	17.224
		2	16.739	18.747	16.746	16.738
		3	16.239	16.245	16.245	16.239
-	COAP	1	15.747	15.752	15.751	15.747
	SPAN BACK	5	15.245	15.248	15.248	15,245
		6	14.775	14.777	14.777	14.775
		7	14.283	14.283	14.283	14, 283
		8	13.791	13.789	13.769	13.791
ą		9	13.349	13.345	13.345	13.349
HER		1	17.051	17.032	17.032	17.050
•		2	16.606	16.590	16.590	16.605
		3	16.148	16.136	16.135	16.147
					15.674	15.683
	SPAN AHEAD	1	15.683	15.675		
	ALCAU	5	15.204	15.198	15.198	15.204
		- 6	14.769	14.767	14.767	14,769
		7	14.313	14.314	14.314	14.3/3
		8	13.857	13.860	13.861	13.857

		20050		ELEVATIO	N POINTS	
	SPAN	GROER	PT. a	PT. b	PT. o	PT. d
		,	16,182	16.200	16.200	15. 182
- [2	15.887	15.902	15.902	15.867
ł		3	15.579	15.591	15.391	15.579
ı		4	15, 265	15.274	15.274	15.265
-	SPAN BACK	5	14.938	14.941	14.941	14.936
١	DALA	6	14,651	14.654	14.654	14.651
		7	14.545	14.344	14,344	14.345
ł		8	14.039	14.035	14.035	14.039
2		9	13.727	13.719	13.719	13.727
5		1	16.176	18, 159	16.159	16,178
٦		2	15.886	15.670	15.870	15.866
ĺ		3	15.579	15.567	13.587	15.579
- 1	SPAN	4	15.273	15.264	15.284	15.273
ı	AHEAD	5	14.944	14.939	14.939	14.944
J		6	14.875	14.672	14.672	14.675
		7	14.383	14.382	14.382	14, 383
- 1		8	14.091	14.093	14.093	14.091
		9	13.785	13.790	13.790	13.785
+		,	15.309	15.327	15.327	15.309
-		2	15.167	15.182	15.182	15.167
J	1	3	15.011	15.023	15.023	15.011
- 1	COAN	4	14.855	14.864	14.864	14.855
	SPAN BACK	5	14.676	14.682	14.882	14.676
ĺ		6	14.525	14.528	14.528	14.525
-		7	14.355	14.355	14.355	14.355
-		8	14.184	14, 182	14.182	14, 184
ŧ		9	13.999	13.995	13.995	13.999
5		1	15.308	15.290	15.290	15.308
٤١		2	15.167	15.151	15.151	15.167
ł		3	15.011	14.998	14.998	15.011
1		4	14.855	14.845	14.846	14.855
-]	SPAN AHEAD		14.676	14.670	14.670	14.676
J		5	14.511	14.505	14.505	14.511
-		6		14.320	14.320	14. 326
-[7	14.326		14.135	14, 141
1			14, 141	14.135	13.936	13.942
4		9	13.942	13.936		
1			14, 456	14,454	14.454	14.436
1			14, 445	14.450	14.450	14.445
1			14.440	14.452	14.452	14.440
-	SPAN	1	14.435	14.444	14.444	14.435
1	BACK	5	14.408	14.414	14.414	14, 408
		6	14.229	14.235	14.235	14.229
			14.044	14.050	14.050	14.044
١			13.859	13.865	13.865	13.859
- 1		9	13.660	13.666	13.666	13.660
5			14.435	14.417	14.417	14, 436
1			14,445	14. 429	14.429	14.445
1			14.440	14.427	14.427	14, 440
	SPAN	1	14.435	14, 426	14,426	14. 435
1	AHEAD	5	14.408	14.402	14.402	14.408
-		6	14.229	14.223	14.223	14. 229
	[7	14.044	14.038	14.038	14.044
- 1	ĺ	8	13.859	13.853	13.853	13.859
- 1	I					

	SPAN	GROER		ELEVATIO	N POINTS			
	SF / VI	UM (LAL)1	PT. a	PT. b	PT. a	PT. d		
7		1	13.537	13.556	13.556	13.537		
		2	13.597	13.713	13.713	13.697		
- (3	13.844	13.858	13.856	13.844		
1		4	13.990	13.999	13.999	13.990		
	SPAN BACK	5	14,114	14.120	14.120	14,114		
	Deca	6	13.947	13.953	13.953	13.947		
1		7	13,762	13.768	13.768	13.762		
		8	13.577	13.583	13.583	13.577		
8		9	13.378	13.384	13.384	13.378		
5		,	13.430	13.422	13.422	13.430		
`		2	13.610	13.602	13.602	13.610		
-		3	13.775	13.769	13.769	13.775		
	SPAN	4	13.941	13.935	13.935	13.941		
-	AHEAD	5	14.084	14.079	14.079	14.064		
		6	13.918	13.913	13.913	13.918		
- 1		7	13.733	13.728	13.728	13.733		
- 1		8	13.548	13.543	13.543	13.548		
		9	13.349	13.344	13.344	13.349		
+		,	13.048	13.057	13.057	13.048		
		2	13.267	13.274	13.274	13.287		
		3	13.471	13.478	13.478	13,471		
	SPAN	4	13.678	13.681	13.581	13.678		
	BACK	5	13.856	13.863	13.863	13.858		
- 1		6	13.695	13.700	13.700	13.695		
1		7	13.510	13.515	13.515	13.510		
		8	13.325	13.330	15.330	13.325		
<u> </u>		9	13.126	13. (3)	13.131	13, 126		
5		,	13.156	13.156	13.156	13. 156		
1		2	13.355	13.355	13.355	13.355		
1		3	13.540	13.540	13.540	13.540		
-	SPAN	1	13.725	13.725	13.725	13.725		
-	AHEAD	5	13.888	13.888	13.888	13,688		
1		6	13.725	13.725	13.725	13.725		
- (7	13.540	13.540	13.540	13.540		
		8	13.355	13.355	13.355	13.355		
_		9	13, 155	13.156	13.158	13.156		
		1	13.158	13.156	13.158	13.156		
		2	13.355	13.355	13.355	13.355		
		3	13.540	13.540	13.540	13.540		
	SPAN	1	13.725	13.725	13.725	13.725		
	BACK	5	13.888	13.888	13.888	13.888		
1		6	13.725	13.725	13.725	13.725		
		7	13.540	13.540	13.540	13,540		
		8	13.355	13.355	13.355	13.355		
2		9	13.156	13, 156	13.158	13.156		
P		1	13.158	13.156	13.156	13.156		
MENO M		2	13.355	13.355	13.355	13.355		
Ĕ		3	13.540	13.540	13.540	13.540		
	SPAN	1	13.725	13.725	13.725	13.725		
	AHEAD	5	13.888	13.888	13.888	13.888		
ĺ		6	13.725	13.725	13.725	13.725		
- 1				7	13.540	13.540	13.540	13.540
		8	13.355	13.355	13.355	13.355		

	SPAN	SPAN	CIRDER		ELEVATIO	N POINTS	
	3F##	WALL	PT. a	PT. b	PT. o	PT. d	
		1	13.156	13.156	13.156	13.156	
		2	13.355	13.355	13.355	13.355	
		3	13.540	13.540	13.540	13.540	
		4	13.725	13.725	13.725	13.725	
	SPAN	5	13.888	13.688	13.888	13.688	
	BACK	6	13.725	13.725	13,725	13.725	
		7	13.540	13.540	13.540	13.540	
		8	13.355	13.355	13.355	13.355	
83		9	13.156	13.156	13.156	13.156	
Ş		,	13.109	13.112	13.112	13.109	
₹		2	13.308	13.311	13.311	13.308	
		3	13.493	13.496	13.496	13.493	
			13.878	13.681	13.681	13.678	
	SPAN AHEAD			13.843	13.843	13.841	
	7.50	5	13.841		13.681	13.678	
		- 6		13.681		13.493	
		7	13.493	13.496	13.496		
		8	13.308	13.311	13.311	13.306	
		9	13.109	13.112	13.112	13.109	
			13.224	13.222	13.222	13.224	
		2	13.423	13.421	13.421	13.423	
		3	13.508	13.606	13.606	13.608	
	SPAN	4	13.793	13.791	13.791	13.793	
	BACK	5	13.958	13.953	13.953	13.958	
		6	13.793	13.791	13.791	13.793	
		7	13.608	13.806	13.606	13.508	
_		8	13.423	13.421	13,421	13.423	
8		9	13.224	13.222	13.222	13.224	
PER			13.215	13.227	13.227	13.215	
		2	13,414	13.426	13.426	13.414	
		3	13.599	13.611	13.611	13.599	
	SPAN	4	13.784	13.796	13.796	13.784	
	AHEAD	5	13.947	13,959	13.959	13.947	
		6	13.784	13.798	13.796	13.784	
		7	13.599	13.611	13.811	13.599	
		8	13.414	13.428	13.426	13.414	
		9	13.215	13.227	13.227	13.215	
		1	13.754	13.743	13.743	13.754	
		2	13.953	13.942	13.942	13.953	
		3	14, 138	14.127	14.127	14.138	
	SPAN	1	14.323	14.312	14.312	14.323	
	BACK	5	14, 486	14.474	14.474	14,485	
		6	14.323	14.312	14.312	14.323	
		7	14.138	14.127	14,127	14,138	
		8	13.953	13.942	13.942	13.953	
8		9	13.754	13.743	13,743	13.754	
Ž		1	13.754	13.775	13.775	13.754	
٩		2	13.953	13.974	13,974	13.953	
		3	14.138	14.159	14,159	14,138	
	SPAN	1	14,323	14,344	14.344	14.323	
	MEAD	5	14.486	14.506	14.506	14.485	
ķ	"/	6	14.323	14.344	14.344	14.323	
ار	(7	14.138	14.159	14.159	14.138	
5	1,	8	13.953	13.974	13.974	13.953	
						13.754	

DATE BY

REVISIONS
DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY

DR. BY SG 3/94
CHK. BY CFC 3/94
5UPV. REJ 3/94

Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE PEDESTAL ELEVATIONS (1)

96 С-44A

BX1-54

			-	ELEVAT (OF	POINTS	
	SPAR	GIRDER	PT. 0	PT. 8	PT.e	PT.d
		,	21.438	21.438	21.438	21.438
		Z	21.641	21.641	21.641	21.641
1		3	21.845	21.845	21.845	21.845
		4	22.048	22.048	22.048	22.048
	SPAN BACK	5	22.048	22.048	22.048	22.048
		6	21.845	21.845	21.845	21.845
		7	21.641	21.641	21.641	21.641
		8	21.438	21.438	21.438	21.438
7						
PIER		' .	21.630	21.630	21.630	21.630
Í		2	21.833	21.833	21.833	21.833
ı		3	22.037	22.037	22.037	22.037
	SPAN	4	22.240	22.240	22.240	22.240
	AHEAO	5	22.240	22.240	22.240	22.240
- 1		6	22.037	22.037	22.037	22.037
		7	21.833	21.833	21.833	21.633
		8	21.630	21.630	21.630	21.630
		,	25.916	25.916	25.916	25.916
		2	26.120	26.120	26.120	26.120
J		3	26.323	26.323	26.323	26.323
	SPAN	1	26.526	26.526	26.526	26.526
- 1	BACK	5	26.526	26.526	26.526	26.526
		6	26.323	26.323	26.323	26.323
		7	26.120	26.120	26.120	26.120
~		8	25.916	25.916	25.916	25.916
35						
PIER			25.998	25.998	25.998	25.998
		2	26.201	26.201	26.201	26.201
Ì		3	26.404	26.404	26.404	26.404
- [SPAN	1	26.608	26.608	26.608	26.608
- {	AHEAD	5	26.608	26.608	26.608	26.608
		6	26.404	26.404	26.404	26.404
		· · ·	26.201	26.201	26.201	26.201
		- 8	25-998	25.998	25.998	25.998
-			30 730	30 379	10 120	30 329
		2	30.378	30.378	30.378	30.378
1		3	30.785	30.581	30.581	30.785
		- 4	30.785	30.785	30.785	30.785
	SPAN BACK	5	30.988	30.988	30.988	30.988
	-	6	30.785	30.785	30.785	30.785
		7				
- 1		8	30.581	30.581	30.581	30.581
×			30.316	30.310	30.318	30-316
PIER		,	30.460	30.460	30.460	30.460
٦		2	30.663	30.663	30.663	30.663
j		3	30.866	30.866	30.866	30.866
	****	4	31.070	31.070	31.070	31.076
	SPAN AHEAD	5	31.070	31.070	31.070	31.070
- 1		6	30.866	30.866	30-866	30.866
1		7	30.663	30.663	30.663	30.663
		8	30.460	30.460	30.460	30.460
			30.400	30.400	30.400	30.100
- 1		1	1			

	SPAN	GIRDER	To the state of th	ELEVATIO	NOINTS	
			PT.e	PT.b	PT.c	PT.d
1		1	34,793	34.793	34.793	34,793
1		2	34.996	34.996	34.996	34.996
ı		3	35.199	35, 199	35.199	35.199
- [SPAN		35.403	35.403	35.403	35.403
1	BACK	3	35.403	35.403	35.403	35.403
1		6	35.199	35, 199	35.199	35.199
1		7	34.996	34,996	34.996	14,996
		8	34,793	34.793	34, 793	34.793
֭֭֭֡֜֝֜֜֜֜֜֜֜֜֜֜֡֡֡֜֜֜֡֡֡֡֡֜֜֡֡						
			34.874	34.874	34.874	34.874
1		2	35.078	35.078	35.0/8	35.078
1		3	35.281	35.281	35.281	35.281
1	SPAN	-	35.484	35.484	35.484	35.484
j	MEND	5	35.484	35.484	35.484	35.484
١		6	35.281	35.281	35.281	35.781
-		7	35.078	35.078	35.078	35.07B
		8	34.874	34.674	34.874	34.874
+		+	1			
1			39.161	39.161	39.161	39.161
1		2	39.364	39.364	39.364	39.364
1		3	39.567	39.567	39.567	39.567
1	SPAN BACK	4	39.771	39.771	39.771	39.771
1	BALK.	5	39.771	39.771	39.771	39.771
1		6	39.567	39.567	39.567	39.567
1		7	39.364	39.364	39.364	39.364
R		8	39.161	39.161	39.161	39.161
5		+	39.242	39.242	39.242	39.242
١,		2	39.446	39.446	39.446	39.446
1		3	39.649	39.649	39.649	39.649
1		1	39.852	39.852	39.852	39.852
1	SPAN AHEAD	5	39.852	39.852	39.852	39.852
1		6	39.649	39.649	39.649	39.649
ĺ		7	39.446	39.446	39.446	39,446
ĺ		8	39.242	39.242	39.242	39.242
1			1	3312.12	-	337.6
+			43.622	43.622	43.622	43.622
1		2	43.826	43.826	43.826	43.826
		3	44.029	44.029	44.029	44.029
1	SPAN	•	44.232	44.232	44.232	44.232
1	BACK	5	44.232	44.232	44.232	44.232
1		6	44.029	44.029	44.029	44.029
1		7	43.826	43.826	43.826	43.826
1		8	43.622	43.622	43.622	43.622
:			† —			
		,	43.704	43.704	43.704	43.704
-		2	43.907	43.907	43.907	43.907
		3	44.111	44.111	44.111	44.111
	SPAN	4	44.314	44.314	44.314	44.314
	AHEAD	5	44.314	44.314	44.314	44.314
		6	44.111	44.111	44.111	44.111
		7	43.907	43.907	43.907	43.907
		8	43.704	43.704	43.704	43.704
						

	SPAN	GIRDER		ELEVATION	W POINTS		
	3F.W.	Uncen	PT. e	PT. D	PT.c	PT.d	
7		1	48.037	48.037	48.037	48.037	
- }		2	48.241	48.241	48.241	48.241	
		3	48,444	48.444	48.444	48.444	
- [1	48.647	48.647	48.647	48.647	
-	SPAN BACK	5	48.647	48.647	48.647	48.647	
1	BC.	6	48,444	48.444	48.444	48.444	
- }		7	48.241	48.241	48.241	48.241	
1		8	48.037	48.037	48.037	48.037	
8		and the same of	***************************************	and the best of th			
5		1	48,146	48.146	48.146	48.146	
`		2	48.350	48.350	48.350	48.350	
		3	48.553	48.553	48.553	48.553	
1	SPAN	4	48.756	48.756	48.756	48.756	
1	AHEAD	5	48.756	46.756	48.756	48.756	
- {		6	48.553	48.553	48.553	48.553	
ı		7	48.350	48.350	46.350	48.350	
J		8	48.146	48.146	48.146	48.146	
_		,	52.425	52 . 425	52.425	52.425	
- }		2	52.628	52.628	52.628	52.678	
		3	52.832	52.832	52-832	52.832	
- 1	SPAN	4	53.035	53.035	53.035	53.035	
- 1	BACK	5	53.035	53.035	53.035	53.035	
-		6	52.832	52.832	52.832	52 . 837	
ļ		7	52.628	52.628	52-628	52.628	
- 1		8	52.425	52.425	52.425	52.425	
=							
PIER		,	52.620	52.620	52.620	52.620	
`		2	52.823	52.823	52.823	52-823	
1		3	53.027	53.027	53.027	53.027	
	SPAN	1	53.230	53.230	53.230	53.230	
-	AHEAD	5	53.230	53.230	53.230	53.230	
- 1		6	53.027	53.027	53.027	53.027	
- {		7	52.823	52.823	52.823	52.823	
- 1		8	52.620	52.620	52.620	52.620	
		,	55-814	55.814	55.814	55.814	
		2	56.018	56.018	56.018	56.018	
		3	56.221	56.221	56.221	56.221	
	SPAN	4	56.425	56.425	56.425	56.425	
	BACK	5	56.425	56 - 425	56.425	56.425	
		6	56.221	56.221	56.221	56.221	
		7	56.018	56-018	56.018	56.018	
		8	55-814	55-814	55.814	55.814	
PIER 42							
150			55.790	55.790	55.790	55.790	
		2	55-994	55.994	55.994	55.994	
		3	56.197	56-197	56.197	56.197	
	SPAN	4	56.400	56.400	56.400	56.400	
	AHEAD	5	56.400	56.400	56.400	56.400	
		6	56.197	56.197	56.197	56.197	
		7	55.994	55.994	55.994	55.994	
- 1		8	55.790	55.790	55.790	55.790	

HATRO

FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahossee, Florida 32312-1721 Jonssen & Spoons Engineers, Inc. 2825 East 56th Street Indianopolis, Indiana 46220

					REVIS	SNOK						NME	DATE
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	87	DR. BY	JLS.	1/96
			~								OK. BY	CW.N.	1/96
											SUPY.	H.D.R.	1/96

ELEVATION POINTS

PT.C

14.740

14.939

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PT. d

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BEARING PEDESTAL POINT ELEVATIONS

PT.d -

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE PEDESTAL ELEVATIONS (2)

_		GIROER		ELEVATION	POINTS	
	SPAK	UNCEN	PT.a	PT.b	PT.C	PT.d
		1	54.166	54.166	54.166	54.166
1		2	54.369	54.369	54.369	54.369
ĺ		3	54.573	54.573	54,573	54.573
2	SPAN	4	54.776	54.776	54.776	54.776
PIER	BACK AND	5	54.776	54.776	54.776	54.776
۵	AHEAD	6	54.573	54.573	54.573	54.573
- 1		7	54.369	54.369	54.369	54.369
-		8	54.166	54.166	54.166	54.166
ı		1	54.219	54.219	54.219	54.219
- 1		2	54.422	54.422	54.422	54.422
- 1		3	54.626	54.626	54.626	54.626
#	SPAN BACK	4	54.829	54.829	54.829	54.829
PIER	AND	5	54.829	54.829	54.829	54.829
١,	AHEAO	6	54.626	54.626	54.626	54.626
1		7	54.422	54.422	54.422	54.422
- 1		8	54.219	54.219	54.219	54.219
1			3.02.5	311613		
		, ,	55.928	55.928	55.928	55.928
Ì		2	56.131	56.131	56.131	56.131
		3	56.334	56.334	56.334	56.334
- {		1	56-538	56.538	56-538	56.538
ĺ	SPAN BACK	5	56.538	56.538	56.538	56.538
1		6	56-334	56.334	56.334	56.334
- [56.131	56.131	56.131	56.131
- }		8	55.928	55.928	55.928	55.928
ŧ			33.320	33.320	331320	-
P/ER		 	55.952	55.952	55.952	55.952
٩		2	56.156	56.156	56.156	56.156
ł		3	56.359	56.359	56.359	56.359
- }	SPAN	4	56.562	56.562	56.562	56.562
- }	MEAD	5	56.562	56.562	56.562	56.562
- {		6	56.359	56.359	56.359	56.359
- 1		7	56.156	56.156	56.156	56.156
		8	55.952	55.952	55.952	55.952
- [-		
		BEARING PED	ESTAL POL	NT ELEVAT	IONS	
				PT.c		
	¥6 ×	PT.D			_	
	SPAN	PT.0 -		PT.d	~€ PIER	
	+	PT. d		L PT.0		
	₹	L				
	NY S	PT.c		PT.D		
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	~ 1					
	SP.W BK	PT.D		PT.c	6	
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	+					
	SPAN AH	PT. 0		PT.d		
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	કે					

			ELEVATION POINTS							
	SPAN	GIROER	PT.a	PT.D	PT.C	PT.d				
T			52.833	52.833	52-833	52.833				
1	SPAN BACK	2	53.036	53.036	53.036	53.036				
- 1		3	53.240	53.240	53.240	53.240				
		4	53.443	53.443	53.443	53.443				
1		5	53.443	53.443	53.443	53.443				
1		6	53.240	53.240	53.240	53.240				
-		7	53.036	53.036	53.036	53.036				
1		8	52.833	52.833	52.833	52.833				
¥										
43		1	52.649	52.649	52.649	52.649				
1		2	52.853	52.853	52.853	52.853				
		3	53.056	53.056	53.056	53.056				
1	SPAN	4	53.259	53.259	53.259	53.259				
-	AHEAD	5	53-259	53.259	53.259	53.259				
1		6	53.056	53.056	53.056	53.056				
1		7	52-853	52.853	52.853	52.853				
		8	52.649	52.649	52.649	52.649				
-										
		1	48.393	48.393	48.393	48.393				
		2	48.596	48-596	48.596	48.596				
	SPAN BACK	3	48.799	48-799	48.799	48.799				
1		4	49.003	49.003	49.003	49.003				
		5	49.003	49-003	49.003	49-003				
		6	48.799	48.799	48.799	48.799				
-		7	48.596	48.596	48.596	48.596				
1		8	48.393	48.393	48.393	48.393				
•										
PIER		1	48-273	48.273	48.273	48.273				
`		2	48.477	48.477	48.477	48.477				
1		3	48.680	48.680	48.680	48.680				
	SPAK	1	48.883	48.883	48.883	48.883				
	AHEAD	5	48.883	48.883	48.883	48.883				
- (6	48-680	48.680	48.680	48-680				
1		7	48.477	48.477	48.477	48.477				
1		8	48.273	48.273	48.273	48.273				
T		1	43.938	43.938	43.938	43.938				
		2	44.142	44.142	44.142	44.142				
		3	44.345	44.345	44.345	44.345				
	SPAK	4	44.548	44.548	44-548	44.548				
	BACK	5	44.548	44.548	44.548	44.548				
		6	44.345	44.345	44.345	44.345				
		7	44.142	44.142	44.142	44.142				
		8	43.938	43.938	43.938	43.938				
\$										
PIEN		1	43.857	43.857	43.857	43.857				
		2	44.060	44.060	44.060	44.060				
		3	44.263	44.263	44.263	44.263				
	SPAK	1	44.467	44.467	44.467	44.467				
	HEAD	5	44.467	44.467	44.467	44.467				
		6	44.263	44.263	44.263	44.263				
		-	44 050	44.060	44.060	44.060				
		7	44.060	44.000	44.000	44.000				

	SPAK	GIROER	ELEVATION POINTS					
			PT.a	PT. D	PT.C	PT.d		
			39.474	39.474	39.474	39.47		
		2	39.678	39.678	39.678	39-678		
		3	39.881	39.881	39.881	39-881		
		4	40.084	40.084	40.084	40.084		
	SPAK BACK	5	40-084	40.084	40.084	40.084		
	BACK	6	39.881	39.881	39.881	39.881		
- 1		7	39.678	39.678	39.678	39.678		
		8	39.474	39.474	39.474	39.474		
\$			1	1	1			
8314			39.393	39.393	39.393	39.393		
4		2	39.596	39.596	39.596	39.596		
		3	39.799	39.799	39.799	39.799		
	5044		40.003	40.003	40.003	40-003		
	SPAK AHEAD	5						
		6	40.003	49.003	40.003	40.003		
		7	39.799	39.799	39.799	39.799		
			39.596	39.596	39.596	39.596		
-		8	39.393	39.393	39.393	39.393		
-			1 30					
			35.104	35.104	35.104	35.104		
-	SPAN BACK	2	35.308	35.308	35.308	35.308		
		3	35.511	35.511	35.511	35.511		
			35.714	35.714	35.714	35.714		
		5	35.714	35.714	35.714	35.714		
		6	35.511	35.511	35.511	35.511		
		7	35.308	35.308	35-308	35-308		
		8	35.104	35.104	35.104	35-104		
8								
4314		1	35.023	35.023	35.023	35.023		
		2	35-226	35.226	35.226	35.226		
		3	35.429	35.429	35.429	35.429		
	SPAK	4	35.633	35.633	35.633	35.633		
	AHEAD	5	35.633	35.633	35.633	35.633		
		6	35.429	35.429	35.429	35.429		
		7	35.226	35.226	35,226	35.226		
		8	35.023	35.023	35.023	35.023		
	ł							
+		1	30.687	30.687	30.687	30-687		
		2	30.891	30.891	30.891	30.891		
		5	31.094	31.094	31.094	31.094		
1	50,0	4	31.297	31.297	31.297	31.297		
	SPAK BACK	5	31.297	31.297	31.297			
		- 6	31.094	31.094	31.094	31.297		
1		7			-			
		8	30.891	30.891	30.891	30.891		
2			30.687	30.687	30.687	30.687		
			70.505	70.505		70		
PIER	-		30.606	30.606	30.606	30.606		
			30.809	30.809	30.809	30.809		
		3	31.013	31.013	31.013	31-013		
	SPAK		31.216	31.216	31.216	31.216		
1	AHEAD	5	31.216	31.216	31.216	31.216		
		6	31.013	31.013	31.013	31.013		
- 1	ĺ	7	30.809	30.809	30-809	30.809		
				30.506				

ĺ	SPAN	GIRDER		ELEVATIO	POINTS	
		Umach	PT.a	PT.D	PT.c	PT.d
		1	26.224	26.224	26.224	26.22
		2	26.427	26.427	26.427	26.42
	SPAN	3	26.630	26.630	26.630	26.63
		1	26-834	26.834	26.834	26.83
- 1	SPAN BACK	5	26.834	26.834	26.834	26-83
	вих	6	26.630	26.630	26.630	26.63
		7	26.427	26.427	26.427	26.42
		8	26.224	26.224	26.224	26.22
3						
PIER		1	26.142	26.142	26.142	26.14
		2	26.345	26.345	26.345	26.34
			26.549	26.549	26.549	26.54
	SPAN	1	26.752	26.752	26.752	26.75
	MEAD	5	26.752	26.752	26.752	26.75
		6	26.549	26.549	26.549	26.54
		7	26.345	26.345	26.345	26.34
		8	26.142	26.142	26.142	26.14
			21.654	21.854	21.854	21-85
		2	22.057	22.057	22.057	22-05
1		3	22.260	22.260	22.260	22.26
	SPAN	1	22.464	22.464	22.464	22.46
	BACK	5	22.464	22.464	22.464	22.46
		6	22.260	22.260	22.260	22.26
		7	22.057	22.057	22.057	22.05
ล		8	21.854	21.854	21.854	21.85
PIER S		,	21.651	21.651	21.651	21.65
٥		2	21.855	21.855	21.855	21.85
- {	SPAN	3	22.058	22.058	22.058	22.05
-		4	22-261	22.261	22.261	22.26
	AHEAD	5	22.261	22.261	22.261	22.26
- [6	22.058	22.058	22-058	22.05
- {		7	21.855	21.855	21.855	21.85
1		8	21.651	21.651	21.651	21.65
+			17.595	17.595	17.595	17.59
		2	17.798	17.798	17.798	17.79
	ĺ	3	18.001	18.001	18.001	18.00
	SPAN	4	18.205	18.205	18.205	18.20
-	BACK	5	18.205	18.205	18.205	18.20
		6	18.001	18.001	18.001	18.00
	j	7	17.798	17.798	17.798	17.79
		8	17.595	17.595	17.595	17.59
2						
PIER		1	17.489	17.489	17.489	17.48
-		2	17.693	17.693	17.693	17.69
		3	17.896	17.896	17.896	17.89
	SPAN	4	18.099	18.099	18.099	18.09
	AHEAO	5	18-057	18.057	18.057	18.05
		6	17.796	17.796	17.796	17.79
		7	17.535	17.535	17.535	17.53
- 1						

PROJECT NO.	SHEET NO
5896	C-45A
. В	X1-55

ALDRO 6 MAY 915

FINLEY MCNARY/JANSSEN SPAANS

Joint Venture

finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312 1721 Janssen & Spaans Engineers, Inc 2825 East 56th Street Indianopalis, Indiano 46220

					REVI	SIONS						NALE	DATE
DATE	BY	OCSCRPTION	DATE	BY	DESCRIPTION	DATE	8Y	DESCRIPTION	DATE	BY	DR. BY	11.5	1/96
											DK. BY	CW.H.	1/96
	-										SUPV.	HDR	1/96

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS
LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE PEDESTAL ELEVATIONS (3)

PROJECT NO	MIL M
5896	C-46A

	CLEVAT 10	POINTS	
PT. 6	Pr.s	PT.e	PT, d
14.577	14.577	14.571	14.577
14.781	14.761	14.781	14.781
14.984	14.984	14.984	14.984
15.187	15.187	15.187	15.187
15.246	15,246	15.246	15.246
15.122	15.122	15.122	15.122
14.998	14.998	14.998	14.998
14.874	14.874	14.874	14.874
16.598	16.566	16.566	16 508
16.797	16.765	16.765	16.598
16.982	16.950	16.950	16.982
17.167	17.135	17.135	17.167
17.330	17.298	17.298	17.330
17.305	17.277	17.277	17.305
17.246	17.222	17.222	17.246
17.187	17.168	17.168	17.187
17.115	17.099	17.099	17.115
15.372	15.397	15.397	15.372
15.571	15.596	15.596	15.571
15.756	15.781	15.781	15.756
15.941	15.966	15.966	15.941
16.104	16.129	16.129	16.104
16.227	16.249	16.249	16.227
16.319	16.338	16.338	16.319
16.412	16.427	16.427	16.412
16.490	16.503	16.503	16.490
15.488	15.469	15.469	15.488
15.658	15.640	15.640	15.658
15.814	15.798	15.798	15.814
15.970	15.955	15.955	15.970
16.104	16.090	16.090	16.104
16.320	16.312	16.312	16.320
16.412	16.408	16.408	16.412
16.491	16.489	16.489	16.491
14.588	14.607	14.607	14.588
14.816	14.834	14.834	14.816
15.030	15.047	15.047	15.030
15-244	15.260	15.260	15.244
15.436	15.450	15.450	15.436
15.702	15.713	15.713	15.702
15.945	15.953	15.953	15.945
16.188	16.193	16.193	16.188
16.417	16.419	16.419	16.417
14.480	14.464	14.464	14.480
14.737	14.724	14.724	14.737
14.980	14.970	14.970	14.980
15.223	15.217	15-217	15.223
15.444	15.441	15.441	15.444
15.709	15.709	15.709	15.709
15.952	15.955	15.955	16.196
16.425	16.202	16.202	16.425
	NT ELEVAT		. 3. 12
	_PT.c		
	_PT.d	_€ PI	ER
}	K	Ł	
1	V-PT.0		

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BEARING PEDESTAL POINT ELEVATIONS

٣~	*****	J	ELEVATION POINTS						
	SPAN	GIROER	PT.e	P7.6	PT.e	PT.d			
		1	13.716	13.733	13.733	13.717			
		2	14.124	14.137	14.137	14.124			
	SPAN	J	14.517	14.527	14,527	14.517			
		4	14.910	14.917	14.917	14.910			
		5	15.281	15.284	15.284	15.281			
	BACK	6	15.696	15.696	15.696	15.696			
		7	16.089	16.086	16.086	16.089			
		8	16.482	16,476	16.476	16.482			
38		9	16.862	16.852	16.852	16.862			
PIEA			13.793	13.780	13.781	13.793			
4,		2	14,140	14.130	14.131	14.140			
	l	<u> </u>	14.537	14.531	14.531	-			
	}					14.537			
	SPAN		14.935	14.931	14.931	14.935			
	, A.L.	5	15.310	15.309	15.309	15.310			
		6	15.716	15.719	15.719	15.716			
		7	16,114	16.120	16.119	16.114			
		8	16.519	16.527	16.527	16.518			
		9	16.909	. 16.921	16.921	16.909			
		1	13.206	13.219	13.220	13.207			
		2	13.697	13.706	13.707	13.697			
	SPAN BACK	3	14.237	14.244	14.244	14.238			
		4	14.778	14.782	14.782	14.778			
		5	15.297	15.297	15.297	15.297			
		6	15-847	15.844	15.844	15-847			
		7	16.388	16.382	16.382	16.388			
		8	16.936	16.927	16.927	16.935			
33		9	17.470	17.458	17.458	17.469			
P1EA	SCAN	1	13.216	13.216	13.216	13.216			
_		2	13.703	13.703	13.703	13.703			
		3	14.240	14.240	14.240	14.240			
		4	14.777	14.777	14.777	14.777			
	MEAD	5	15.292	15.292	15.292	15.292			
		6	15.839	15.839	15.839	15.839			
		7	16.377	16.377	16.377	16.377			
		8	16.921	16.921	16.921	16.921			
		9	17.452	17.452	17.452	17-452			
		,	13.216	13.216	13.216	13.216			
		2	13.703	13.703	13.703	13.703			
		3	14.240	14.240	14.240	14.240			
	SPAN	4	14.777	14.777	14.777	14.777			
	BACK	5	15.292	15.292	15-292	15.292			
		6	15.839	15.839	15.839	15.839			
		7	16.377	16.377	16.377	16.377			
ò		8	16.921	16.921	16.921	16.921			
Ĭ		9	17-452	17.452	17.452	17.452			
8		, –	13.216	13.216	13.216	13.216			
PIERS BO THRU		2	13.703						
PIE				13.703	13.703	13.703			
-		3	14.240	14.240	14.240	14.240			
	SPAN AHEAD		14.777	14.777	14.777	14.777			
	7.70	5	15-292	15.292	15.292	15.292			
		- 6	15.839	15.839	15.839	15-839			
		7	16.377	16.377	16.377	16.377			
		8	16.921	16.921	16.921	16.921			
		9	17.452	17.452	17.452	17.452			

	SPAN	GINOCH	ELEVATION POINTS					
			PT.0	PT.0	PT.c	PT. d		
		,	13.216	13.216	13.216	13.216		
- 1		,	13.703	13.703	13.703	13.703		
- 1		3	14.240	14,240	14.240	14.240		
		4	14,777	14,777	14.777	14.777		
- 1	SPAN BACK	3	15.292	15.292	15.292	15.292		
-		6	15.839	15.839	15.839	15.839		
- 1		1	16.377	16.377	16.377	16.377		
-		8	16.921	16.921	16.921	16.921		
3		9	17,452	17.452	17.452	17.452		
5		,	13.223	13.223	13.223	13.223		
1		2	13.710	13.710	13.710	13.710		
-		J	14.247	14.247	14.247	14.247		
-	SPAN	4	14.785	14.784	14.784	14.785		
1	AMEAD	5	15.300	15.299	15.299	15.300		
1		6	15.847	15.846	15.846	15.847		
		,	16.384	16.384	16.384	16.384		
- [8	16.929	16.928	16.928	16.929		
		9	17.459	17.459	17.459	17.459		
	SPAN BACK	,	13.209	13.209	13,209	13.209		
		2	13.696	13.696	13.696	13.696		
		3	14.233	14.233	14.233	14.233		
1		1	14.770	14.770	14.770	14.770		
1		5	15.285	15.286	15.286	15.285		
		6	15.832	15.832	15.832	15.832		
		7	16.369	16.370	16.370	16.369		
		8	16.914	16.914	16.914	16.914		
3		9	17.445	17.445	17.445	17.445		
			13.201	13.195	13.195	13.201		
		2	13.688	13.682	13.682	13.688		
		3	14.225	14.219	14.219	14-225		
1	SPAN	1	14.763	14.757	14.757	14.763		
	AHEAD	5	15.278	15.272	15.272	15.278		
		6	15.825	15.819	15.819	15-825		
		7	16.362	16.356	16.356	16.362		
		8	16.907	16.901	16.901	16.907		
		9	17.437	17.432	17.432	17.438		

FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tollahassee, Florida 32312-1721

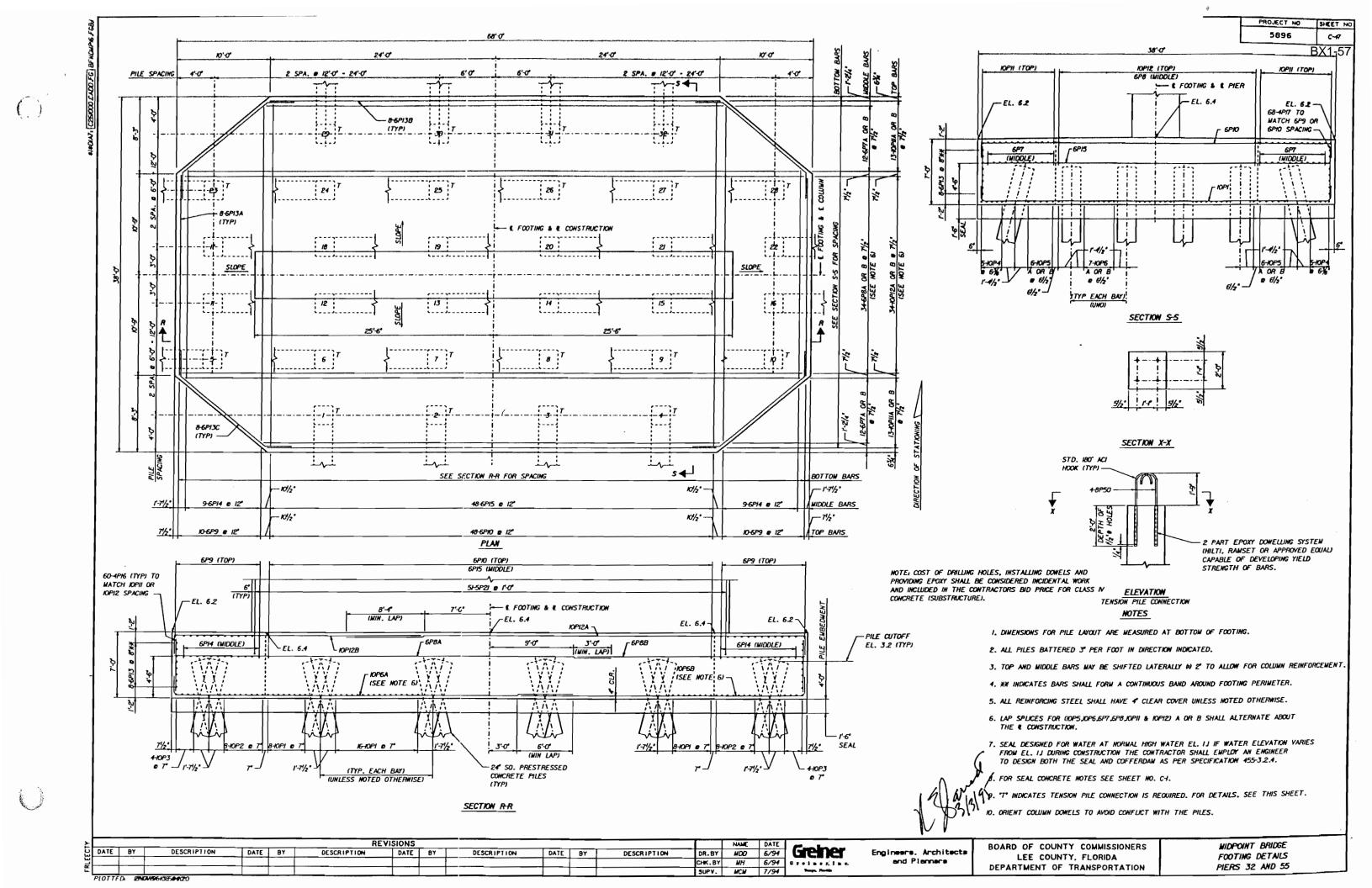
Jonssen & Spoons Engineers, Inc. 2825 Eost 56th Street Indianopolis, Indiana 45220

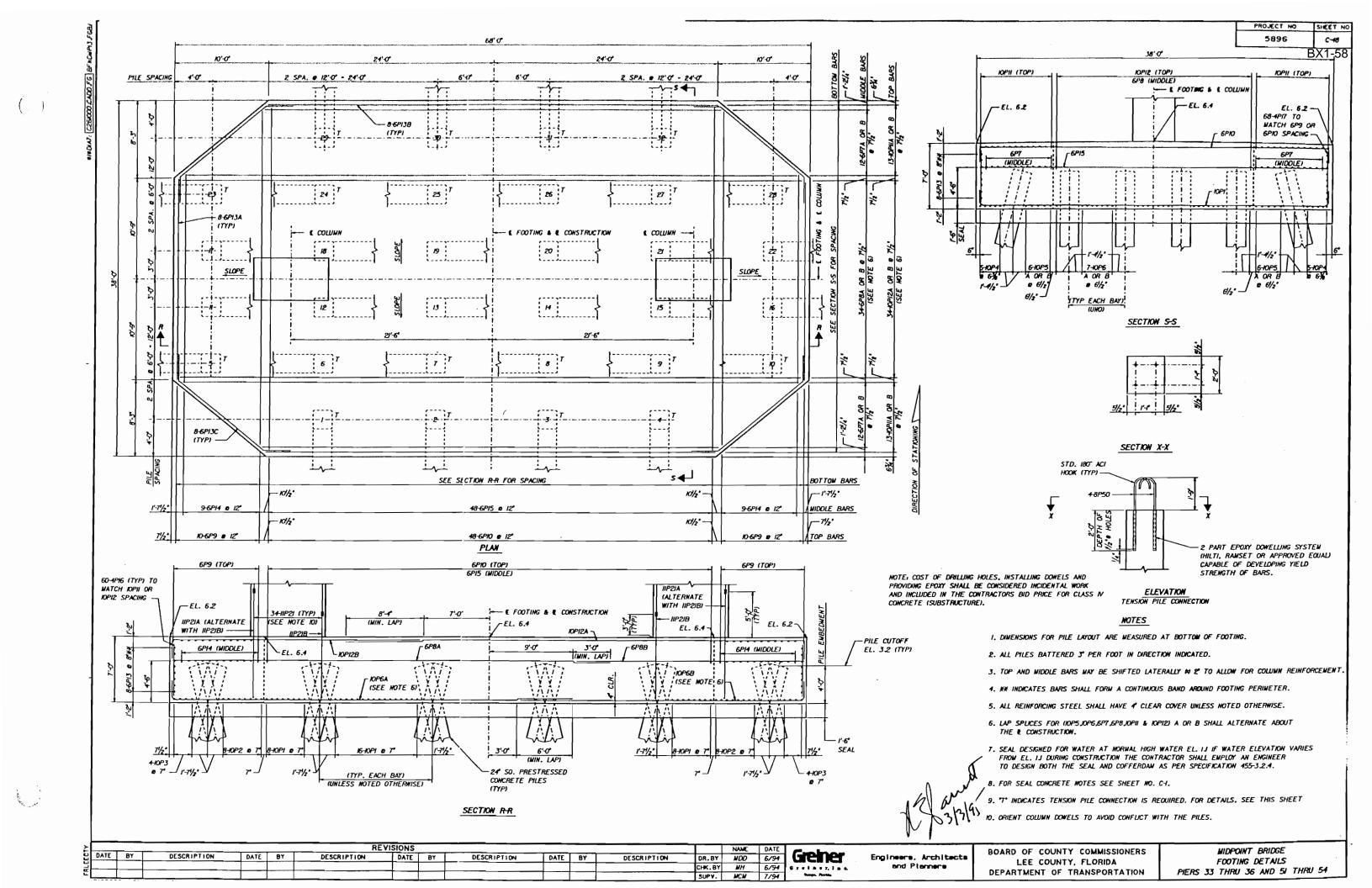
REVISIONS NAE DESCRIPTION DATE BY DATE DATE BY DESCRIPTION DATE BY OR. BY 11.5. \$/96 DESCRIPTION CH. 8Y CWN. 5/96

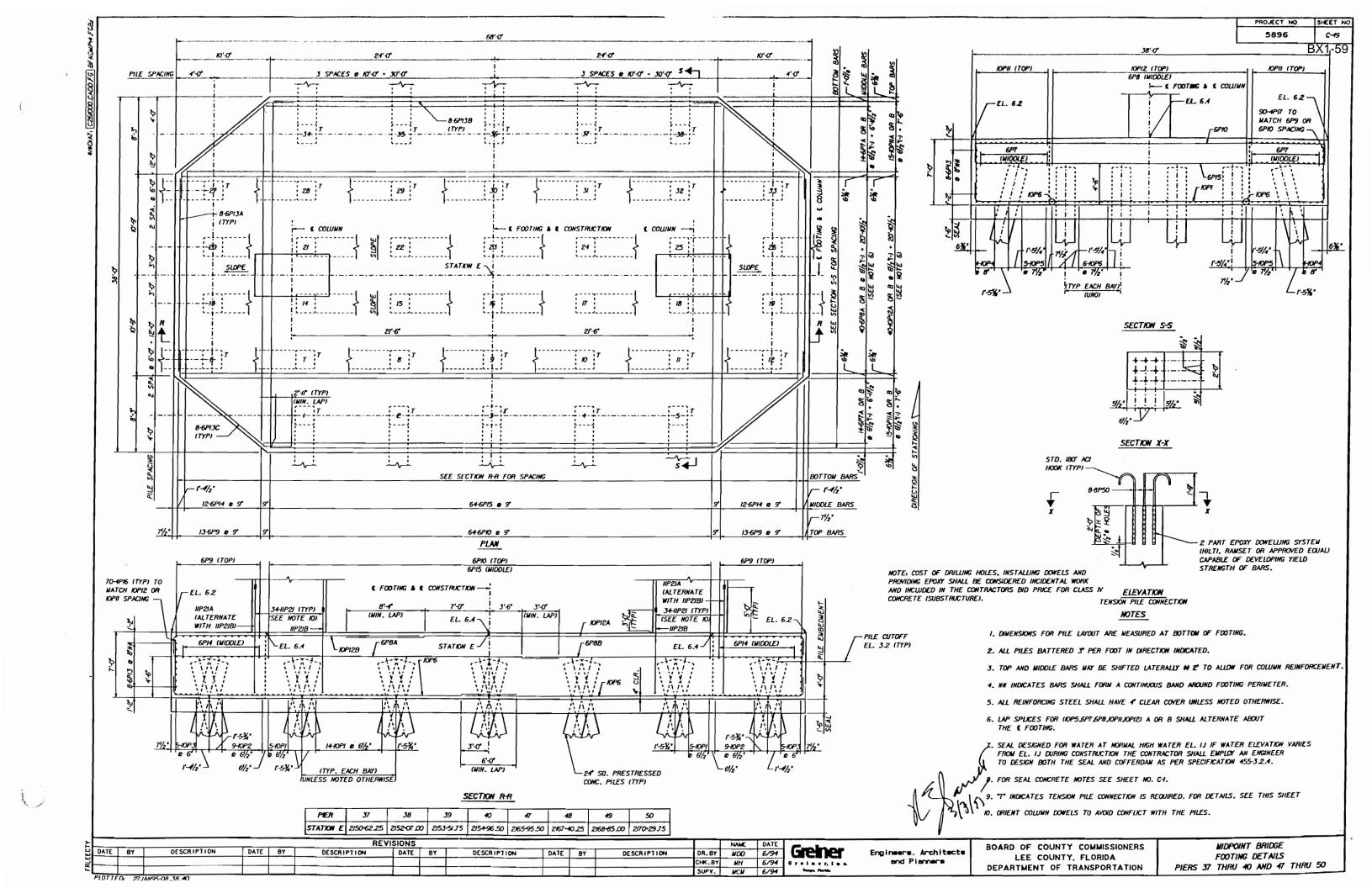
FINLEY MONARY/JANSSEN SPAANS

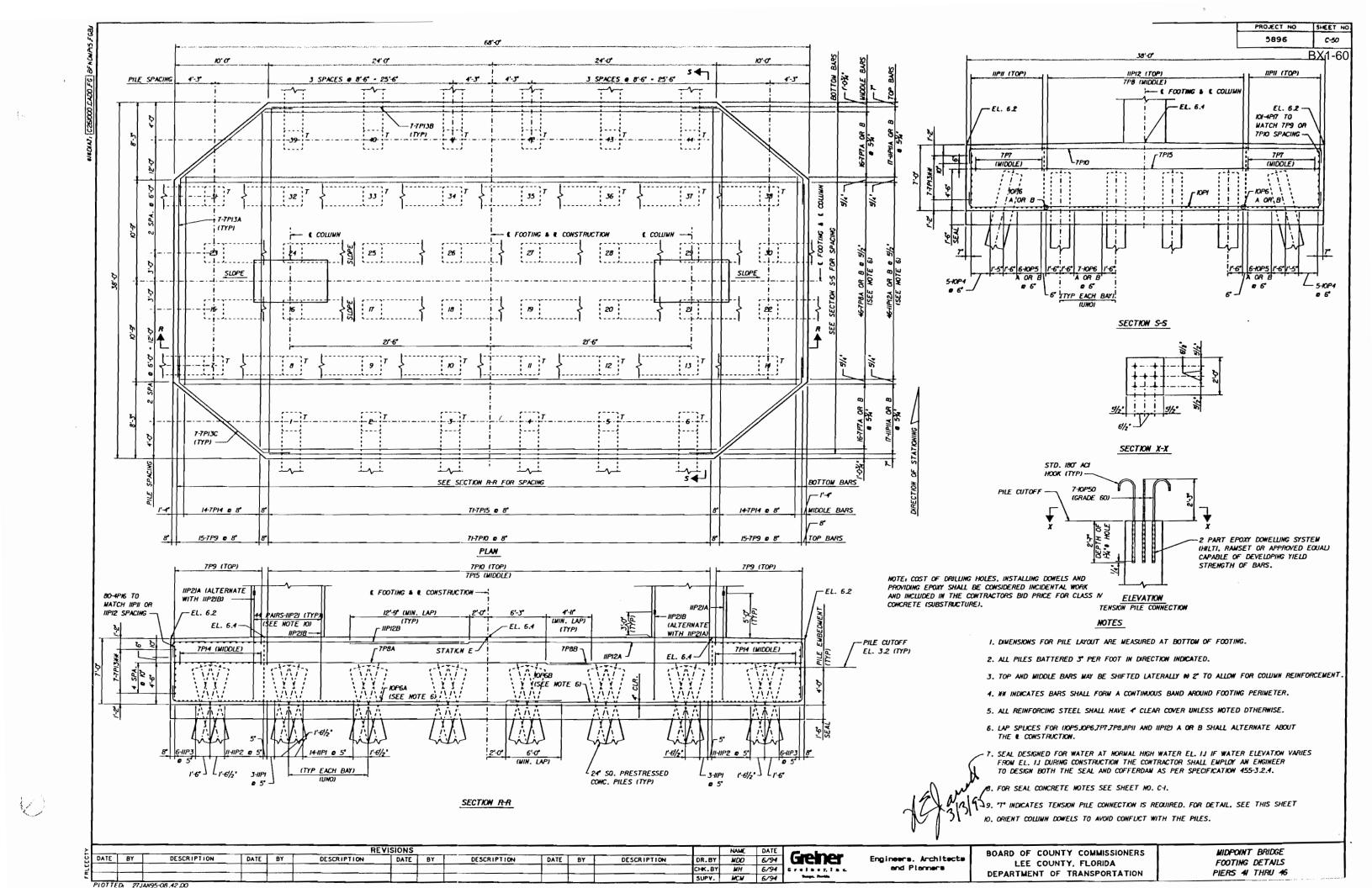
BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

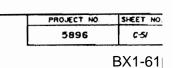
MIDPOINT BRIDGE PEDESTAL ELEVATIONS (4)

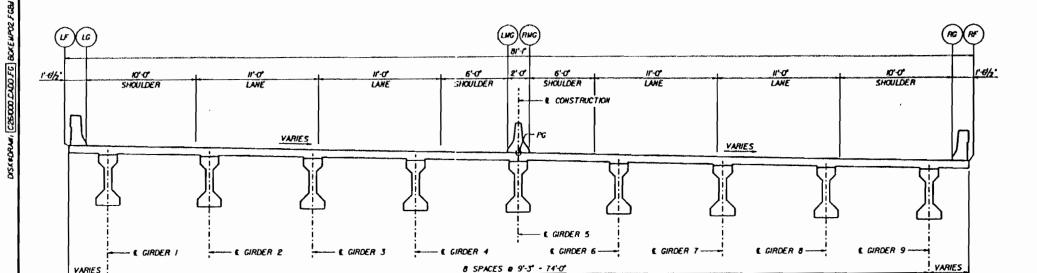












MOTES

UF - DEMOTES LEFT FASCIA LG - DEMOTES LEFT GUTTER LMG - DEMOTES LEFT MEDIAN GUTTER PG - DENOTES PROFILE GRADE

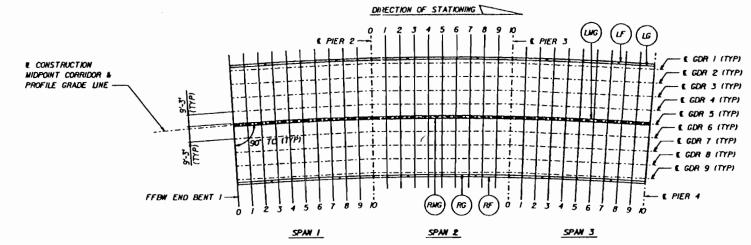
RG - DENOTES RIGHT GUTTER - DENOTES RIGHT FASCIA RING - DENOTES RIGHT MEDIAN GUTTER

INCR. DIST. THE DISTANCE ALONG FASCIA LINES, GUTTER LINES, PROFILE GRADE UNE AND GIRDER CENTERUNES BETWEEN POINTS.

POINTS: POINT 'O' IS LOCATED AT FFBM OR & OF PIER AT THE BEGINNING
OF THE SPAN AND THE LAST POINT IS AT THE FFBM OR & OF PIER AT THE END OF THE SPAN.

ELEVATIONS, ELEVATIONS GIVEN ARE TOP OF SLAB ELEVATIONS AT FASCIA UNES, CUTTER LINES. PROFILE GRADE LINE AND OVER GIRDER CENTERLINES.

TYPICAL SECTION THRU SLAB



VARIES

€ CONSTRUCTION MIDPOINT CORRIDOR &

PROFILE GRADE LINE

PLAN - UNIT A UNIT A - SPANS I THRU 3

UNIT B - SPANS 4 THRU 7 UNIT C - SPANS B THRU II

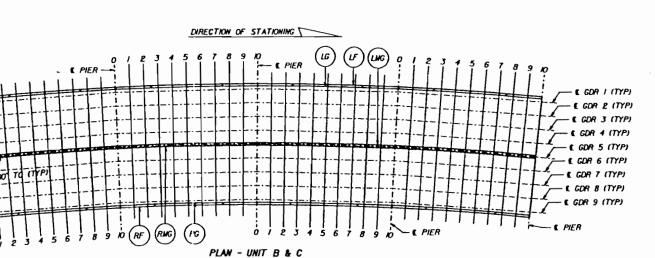


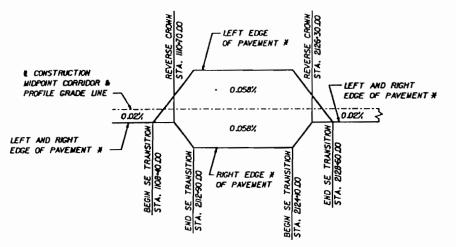
	TABLE OF SUBSTRUCTURE STATIONS											
ELEWENT	FFON END BENT I	E PIER 2	E PIER 3	C PIER 4	£ PIER 5	£ PIER 6	€ PIER 7	£ PIER 8	£ PIER 9	& PIER IO	€ PIER II	€ PIER 12
STATION	2114-27 .08	2115+21_00	211644.92	2117-08.83	2118-02.75	2118-96.67	2119-90.58	21:30-84.50	2121-78.42	2122-72.33	2/23-66.25	2124-60 .17

] ځ						REVI	SIONS							NAME	DATE	•
딦	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DR. BY	MDD	4/93	. (
3													CHK. BY	MCM	4/93	6
٣[SUPY. REJ 7/93														
-	PIOTTE	Th 271	AN95-09-52.00													

Greiner Greiner, Inc. Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (I)



SUPERELEVATION TRANSITION DIAGRAM

* PAVEMENT ON THE BRIDGE REFERS TO THE DECK FASCIA ON THE BRIDGE.

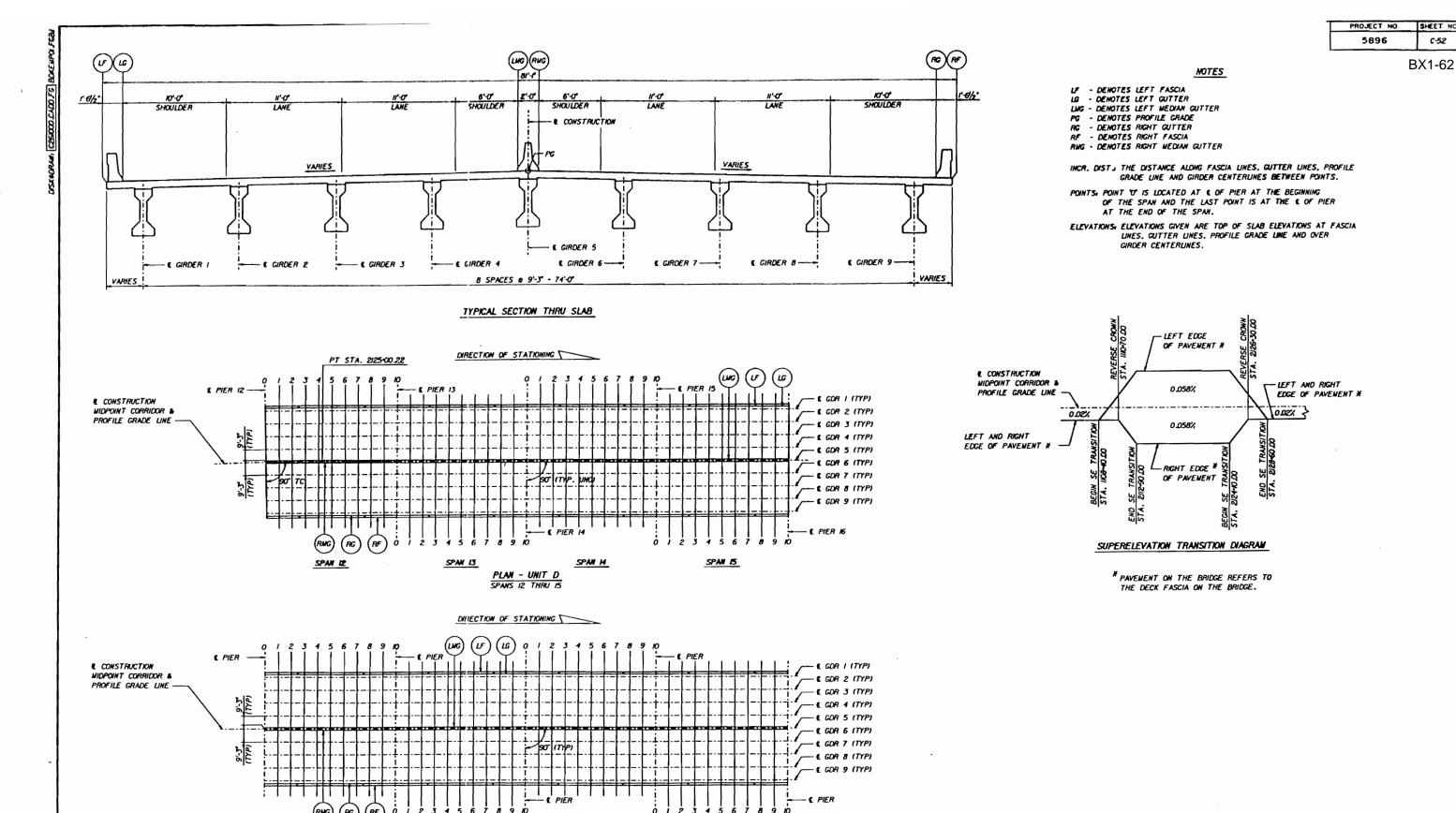


TABLE OF SUBSTRUCTURE STATIONS ELEMENT & PIER 12 & PIER 13 & PIER 14 & PIER 15 & PIER 16 & PIER 16 & PIER 18 & PIER 18 & PIER 19 & PIER 20 & PIER 20 & PIER 22 & PIER 23 & PIER 25 & PIER 26 & PIER 28 & PIER 2 STATION 2124-60.17 2125-54.08 2126-48.00 2127-49.92 2128-35.83 2129-29.75 2130-23.67 2131-75.80 2131-75.80 2131-75.00 2138-68.92 2139-62.83 2140-56.75 2141-50.67 2142-44.58 2143-38.50

DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DR.BY MDD 4/93 DATE BY DATE BY CHK.BY MCM 4/93 Stelmer, Inc. SUPV. REJ 7/93

PLAN - UNIT E, F, G OR H UNIT E - SPANS 16 THRU 19 UNIT F - SPANS 20 THRU 23 UNIT G - SPANS 24 THRU 27 UNIT H - SPANS 28 THRU 31

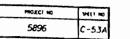
Greiner

Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (2)





- DENOTES LEFT FASCIA LG - DENOTES LEFT GUTTER

LMG - DENOTES LEFT MEDIAN GUTTER

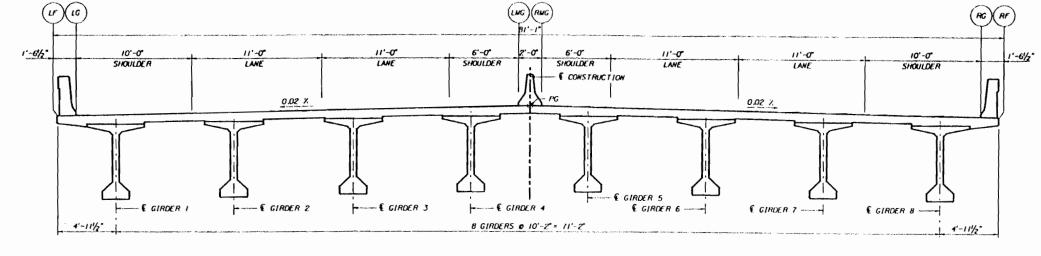
PG - DENOTES PROFILE GRADE RG - DENOTES RIGHT GUTTER RF - DENOTES RIGHT FASCIA

RMG - DENOTES RIGHT MEDIAN GUTTER

INCR. DIST. THE DISTANCE ALONG FASCIA LINES, GUTTER LINES, PROFILE GRADE LINE AND GIRDER CENTERLINES BETWEEN POINTS.

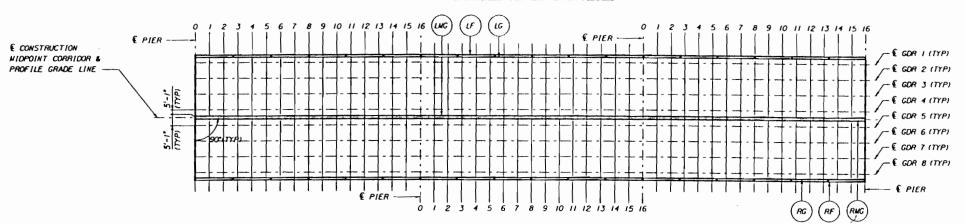
POINTS: POINT "O" IS LOCATED AT & OF PIER AT THE BEGINNING OF THE SPAN AND THE LAST POINT IS AT THE & OF PIER AT THE END OF THE SPAN.

ELEVATIONS: ELEVATIONS GIVEN ARE TOP OF SLAB ELEVATIONS AT FASCIA LINES, GUTTER LINES, PROFILE GRADE LINE AND OVER GIRDER CENTERLINES.



TYPICAL SECTION THRU SLAB MOD. TYPE YI SHOWN

DIRECTION OF STATIONING



I ABLE () -	SUBSTR	UCTURE	STATIO	NS
					_

ELEMENT	€ PIER 32	€ PIER 33	€ PIER 34	€ PIER 35	€ PIER 36	€ PIER 37	€ PIER 38
STATION	2143+38.50	2144+83.25	2146+28.00	2147+7235	2149+17.50	2150+62.25	2152+07.00
ELEMENT	€ PIER 49	€ PIER 50	€ PIER 51	€ PIER 52	€ PIER 53	€ PIER 54	€ PIER 55
STATION	2168+85.00	2170+29.75	2171+74.50	2173+19.25	2174+64.00	2176+08.75	2177+53.50

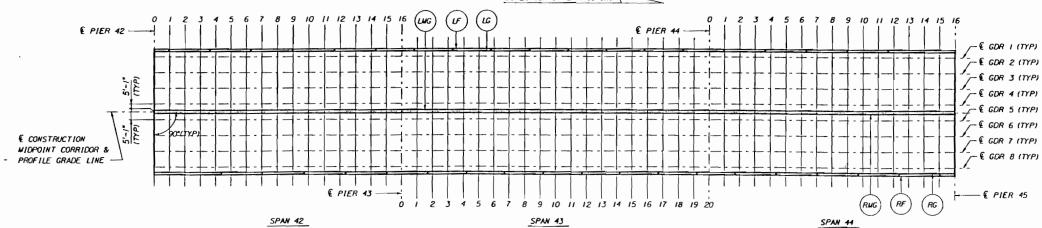
PLAN - UNITS 1. J. N & P

UNIT I - SPANS 32 THRU 34 UNIT J - SPANS 35 THRU 37

UNIT N - SPANS 49 THRU 51

UNIT P - SPANS 52 THRU 54

DIRECTION OF STATIONING



ELEMENT & PIER 42 & PIER 43 & PIER 44 & PIER 45 STATION 2157+86.00 2159+46.00 2161+46.00 2163+06.00

TABLE OF SUBSTRUCTURE STATIONS

PLAN - UNIT L SPANS 42 THRU 44

FINLEY MCNARY/JANSSEN SPAANS

Joint Venture

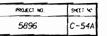
Finley McNary Engineers, Inc 1391 Timberione Road Suite 200 Tallanassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 Eost 56th Street Indianapolis, Indiana 46220

NAME DATE DESCRIPTION DESCRIPTION JLS DATE DR. 8Y 1/96 DATE DESCRIPTION 81 DATE CHK. BY CWN. 1/96 SUPV. HDR.

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (3)



NOTES

LF - DENOTES LEFT FASCIA LG - DENOTES LEFT GUTTER

LMG - DENOTES LEFT MEDIAN GUTTER PG - DENOTES PROFILE GRADE

RG - DENOTES RIGHT GUTTER RF - DENOTES RIGHT FASCIA RMG - DENOTES RIGHT MEDIAN GUTTER

INCR. DIST: THE DISTANCE ALONG FASCIA LINES, GUTTER LINES, PROFILE GRADE LINE AND GIRDER CENTERLINES BETWEEN POINTS.

POINTS: POINT "O" IS LOCATED AT & OF PIER AT THE BEGINNING OF THE SPAN AND THE LAST POINT IS AT THE € OF PIER AT THE END OF THE SPAN.

ELEVATIONS: ELEVATIONS GIVEN ARE TOP OF SLAB ELEVATIONS AT FASCIA LINES. GUTTER LINES. PROFILE GRADE LINE AND OVER GIRDER CENTERLINES.

TABLE OF SUBSTRUCTURE STATIONS ELEMENT & PIER 38 & PIER 39 & PIER 40 & PIER 41 & PIER 42 STATION 2152+07.00 2153+51 75 2154+96.50 2156+41 25 2157+86.00

TABLE OF SUBSTRUCTURE STATIONS

ELEMENT & PIER 45 & PIER 46 & PIER 47 & PIER 48 & PIER 49 STATION 2163+06.00 2164+50.75 2165+95.50 2167+40.25 2168+85.00

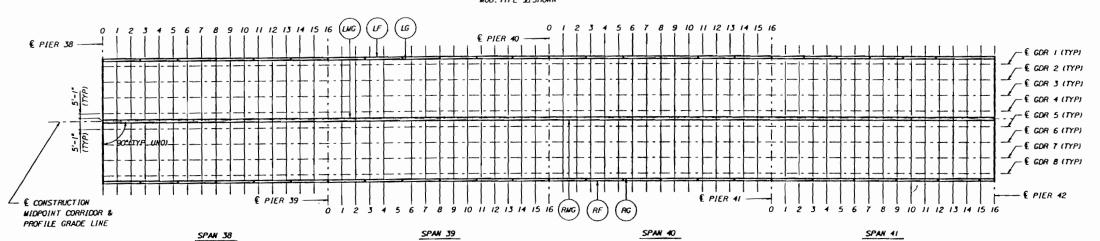
FINLEY MCNARY/JANSSEN SPAANS Joint Venture

1391 Timberlane Rodd Suite 200 Latationnes, Florida 32312 1721

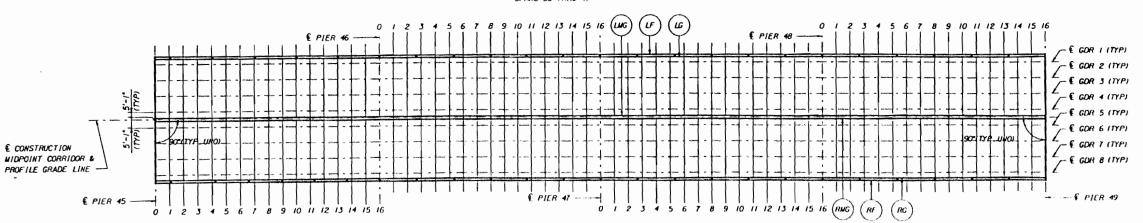
Jonssen & Spaans Engineers, Inc. 2025 East 56th Street Indianapolis, Indiana 46220

11'-0" 11'-O* 10'-0" II'-O' 10'-0" 1'-61/2" LANE SHOULDER SHOULDER LANE LANE SHOULDER SHOULDER - € CONSTRUCTION 0.02 % 0.02 % € GIRDER 5 -- € GIRDER 4 € GIRDER 6 ----€ GIRDER 7 ----€ GIRDER 8 ----- € GIRDER 3 -€ GIRDER I - — € GIRDER 2 8 GIRDERS 0 10'-2" = 71'-2" 4'-111/2" 4'-111/2"

TYPICAL SECTION THRU SLAB MOD. TYPE XISHOWN



PLAN - UNIT K SPANS 38 THRU 41



SPAN 45

PLAN - UNIT M SPANS 45 THRU 48 SPAN 47

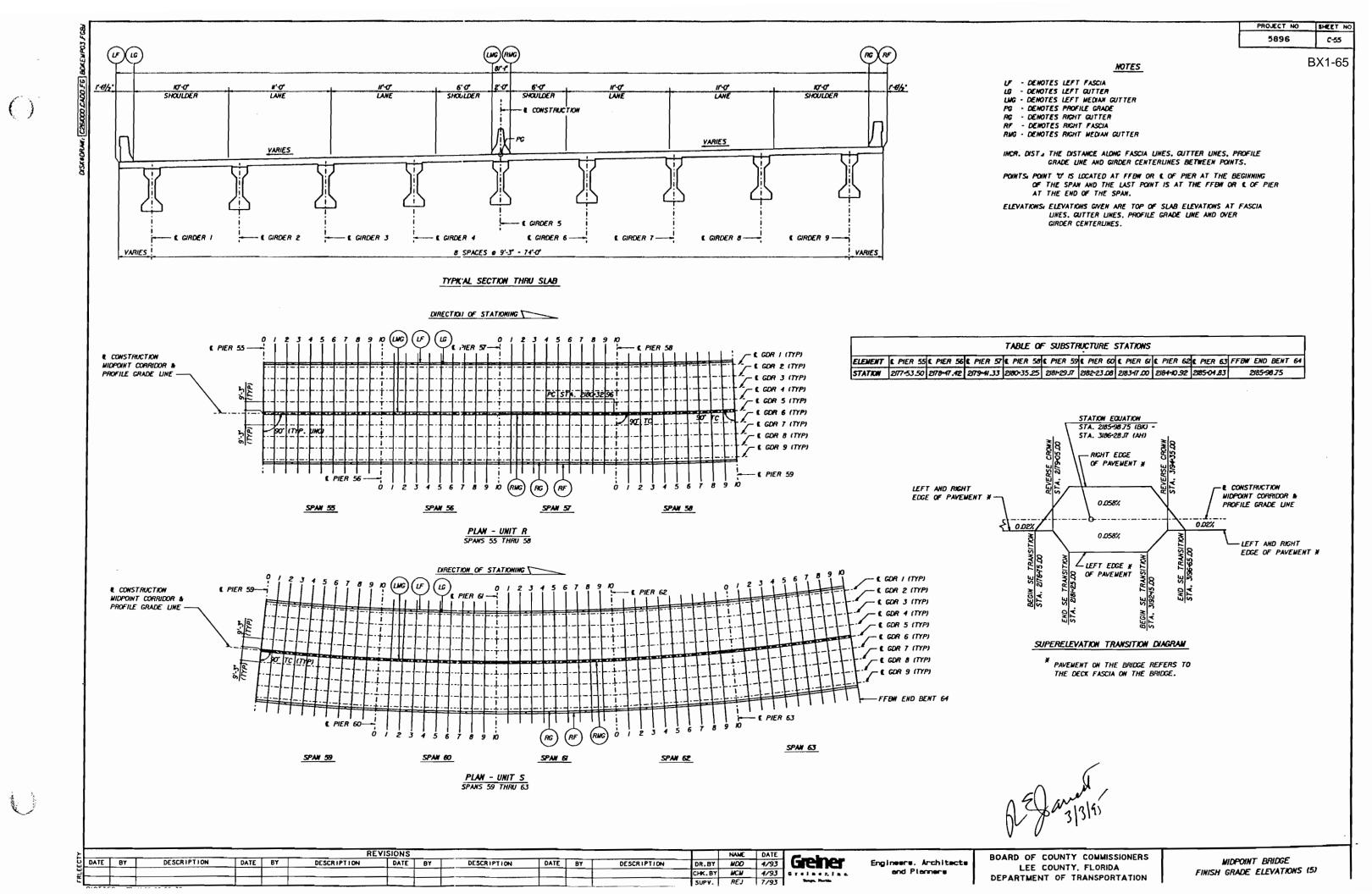
-					REVIS	SHORE							MME	DATE
DATE	87	OCSCRPTION	DATE	87	OCSCRETOR	DATE	87	OSCIPTON	JIAO	6 7	granter of the hydrogen and the second contract the second contrac	OR, 8Y	11.5	1/96
					And the second s		market disease.	e a value sea. Papatipuda, deserg, producto visigo monde promony distante est at this home units. Produced	-	· whether (specific)	The state of the s	DIC BY	CWA.	1/96
			,		[1 .					4.50

FINLEY MONARY/JANSSEN SPAANS

SPAN 48

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (4)



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GOR 2 9.527 2: GOR 3 9.482 2: GOR 4 9.436 2: GOR 5 9.391 2: GOR 6 9.345 26: GOR 7 9.300 11: GOR 9 9.204 11: GOR 9 9.204 11: GOR 9 9.200 11: LF 9.591 2: LG 9.583 2: LMG 9.397 2: RMG 9.397	3.178 23.164 23.164 23.147 23.143 23.142 23.143 23.147 23.134 23.289 22.697 22.818 22.818 22.807 22.808 22.807 22.818 22.818 22.807 22.808 22.807 22.818 22.818 22.818 22.808 22.091 22.075 22.088 22.091 22.075 22.088 23.089 23.091 23.089 21.032 21.535 21.534 21.535 21.534 21.535 21.534 21.535 21.534 21.535 21.534 21.535 21.534 21.535 21.534 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21.535 21	23.184 23.176 22.827 22.839 22.091 22.103 21.554 21.568 21.018 21.030 20.482 20.493 19.945 19.957 19.409 19.420 18.872 18.884 9 10 23.381 23.381 23.292 23.292 21.088 21.088 21.030 21.030 20.972 20.972 18.788 18.768	GOR I 9.3 GOR 2 9.9 GOR 3 9.4 GOR 4 9.4 GOR 5 9.3 GOR 8 9.3 GOR 7 9.3 GOR 8 9.2 GOR 9 9.2 SPAN 5 INC DIS LF 9.5 LG 9.5 LMG 9.3 RMG 9.3 RMG 9.3	17. 0 1 2 3 4 5 173 25.176 25.184 25.134 25.147 25.143 25.142 27 22.859 22.827 22.818 22.811 22.807 22.606 82 22.103 22.091 22.081 22.075 22.071 22.069 38 21.567 21.554 21.545 21.538 21.534 21.535 91 21.030 21.018 21.009 21.002 20.998 20.997 45 20.493 20.482 20.472 20.488 20.482 20.480 91 81.884 18.872 18.863 18.856 18.852 18.851	6 7 8 9 10 22.143 23.147 23.154 23.164 23.176 22.807 22.611 22.818 22.627 22.639 22.071 22.075 22.081 22.091 22.103 21.534 21.538 21.345 21.554 21.366 20.998 21.002 21.009 21.018 21.030 20.462 20.468 20.472 20.482 20.493 19.929 19.999 19.998 19.945 19.957 19.389 19.393 19.399 19.409 19.420 18.852 18.856 18.885 18.872 18.884 POINTS 6 7 8 9 10 23.381 23.381 23.381 23.381 23.381 23.292 23.292 23.292 25.292 25.292 21.088 21.088 21.088 21.088 21.088 21.030 21.030 21.030 21.030 21.050 20.972 20.972 20.972 20.972 18.768 18.768 18.768 18.768 18.768	5896 C-56 BX1-66
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DATE BY DESCRI	PTION DATE BY DESCRIPTION DATE BY	DESCRIPTION DATE BY DESCRIPTION		97 Greiner Engineers. Architects and Planners	BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION	MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (6)

a [T PROJE	CT NO. SHEET NO.
S SPAN 9 INCR. FINISHED GRADE ELEVATIONS AT POINTS		996 0-57
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GDR 2 9.527 22.639 22.627 22.618 22.611 22.607 22.608 22.607 22.611 22.618 22.627 22.840 GDR 3 9.482 22.105 22.091 22.081 22.075 22.071 22.089 22.071 22.075 22.081 22.091 22.103	GDR 2 9.592 21.517 21.445 21.570 21.297 21.224 21.151 21.077 21.004 20.931 20.858 20.784 GDR 3 9.592 21.210 21.152 21.094 21.038 20.978 20.919 20.861 20.803 20.745 20.868 20.828	
GDR 4 9.436 21.587 21.554 21.545 21.538 21.534 21.533 21.534 21.538 21.54 21.558 21.554 21.567 GDR 5 9.391 21.030 21.018 21.009 21.002 20.998 20.997 20.998 21.002 21.009 21.018 21.030	GDR 4 9.392 20.904 20.861 20.818 20.775 20.731 20.888 20.845 20.802 20.539 20.515 20.472 GDR 5 9.392 20.598 20.570 20.541 20.513 20.485 20.485 20.49 20.401 20.372 20.344 20.318	
GDR 6 9.345 20.495 20.482 20.472 20.486 20.482 20.480 20.482 20.486 20.472 20.482 20.493	GOR 8 9.392 20.291 20.278 20.265 20.252 20.239 20.236 20.212 20.199 20.186 20.139 20.131	
COR 7 9.300 19.957 19.945 19.935 19.929 19.925 19.924 19.925 19.929 19.936 19.945 19.957 COR 8 9.254 19.420 19.409 19.399 19.393 19.369 19.385 19.389 19.395 19.399 19.409 19.409 COR 9 9.209 18.884 18.872 18.885 18.852 18.851 18.852 18.856 18.853 18.872 18.884	GOR 8 9.392 19.679 19.696 19.713 19.729 19.748 19.763 19.780 19.797 19.814 19.789 19.761	
SPAN 9 INCR. FINISHED GRADE ELEVATIONS AT POINTS	GOR 9 9.592 19.375 19.404 19.436 19.458 19.500 19.532 19.564 19.595 19.627 19.604 19.578 SPAN 13 INCR. FINISHED GRADE ELEVATIONS AT POINTS	
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CDR 3 9.482 22.103 22.091 22.081 22.075 22.071 22.069 22.071 22.075 22.081 22.091 22.103 GDR 4 9.436 21.567 21.554 21.545 21.538 21.534 21.533 21.534 21.538 21.545 21.554 21.567	GDR 3 9.392 20.828 20.570 20.511 20.453 20.395 20.336 20.278 20.219 20.181 20.103 20.044 GDR 4 9.392 20.472 20.429 20.385 20.342 20.299 20.256 20.212 20.169 20.126 20.082 20.039	·
CDR 5 9.391 21.030 21.018 21.002 21.002 20.998 20.997 20.998 21.002 21.009 21.018 21.030 GDR 6 9.345 20.493 20.482 20.472 20.466 20.462 20.460 20.462 20.468 20.472 20.462 20.494	GDR 5 9.392 20.316 20.288 20.280 20.231 20.203 20.175 20.147 20.119 20.091 20.082 20.034 GDR 8 9.392 20.131 20.103 20.075 20.046 20.018 19.990 19.952 19.934 19.906 19.877 19.849	
CDR 7 9.300 19.957 19.945 19.938 19.929 19.925 19.924 19.925 19.929 19.938 19.945 19.957 GDR 8 9.254 19.420 19.409 19.399 19.393 19.389 19.388 19.389 19.393 19.399 19.409 19.420	GDR 7 9.392 19.945 19.918 19.890 19.881 19.833 19.805 19.777 19.749 19.721 19.892 19.884 GDR 8 9.392 19.781 19.735 19.705 19.878 19.848 19.820 19.592 19.584 19.538 19.507 19.479	
COR 9 9.209 18.884 18.872 18.883 18.858 18.852 18.851 18.852 18.856 18.863 18.863 18.872 18.884 SPAN 10 INCR. FINISHED GRADE ELEVATIONS AT POINTS	GDR 9 9.392 19.576 19.548 19.520 19.491 19.483 19.435 19.407 19.379 19.351 19.322 19.294 SPAN 14 INCR. FINISHED GRADE ELEVATIONS AT POINTS	
DIST. 0 2 3 4 5 8 7 8 9 10 LF 9.591 23.381 23.381 23.381 23.381 23.381 23.381 23.381 23.381 23.381	DIST. 0 1 2 3 4 5 6 7 8 9 10 LF 9.392 21.000 20.906 20.811 20.717 20.622 20.528 20.434 20.339 20.245 20.150 20.058	1
LG 9.583 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292 23.292	LG 9.592 20.974 20.882 20.790 20.898 20.806 20.515 20.423 20.331 20.239 20.147 20.055	
PG 9.392 21.030 21.030 21.030 21.030 21.030 21.030 21.030 21.030 21.030 21.030 21.030 21.030 8MG 9.387 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.972 20.9	PG 9.392 20.318 20.288 20.280 20.231 20.203 20.175 20.147 20.119 20.091 20.082 20.034	
RG 9.200 18.768 18.768 18.768 18.768 18.768 18.768 18.768 18.768 18.768 18.768 18.768 18.768 18.768 RF 9.192 18.679 18.679 18.679 18.679 18.679 18.679 18.679 18.679 18.679 18.679 18.679 18.679	RMG 9.392 20.296 20.268 20.240 20.211 20.163 20.155 20.127 20.099 20.071 20.042 20.014 RG 9.392 19.556 19.508 19.480 19.451 19.423 19.395 19.387 19.339 19.311 19.282 19.254 RF 9.392 19.505 19.477 19.449 19.421 19.392 19.364 19.336 19.308 19.280 19.252 19.223	- 1
2.132 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9 10.0/9	RV 9.392 19.303 19.477 19.449 19.421 19.392 19.304 19.300 19.200 19.201 19.222	
SPAN II INCR. FINISHED GRADE ELEVATIONS AT POINTS	SPAN 15 INCR. FINISHED GRADE ELEVATIONS AT POINTS	į
OIST. 0 2 3 4 5 6 7 6 9 10 GDR 9.573 23.176 23.154 23.154 23.147 23.143 23.112 23.028 22.943 22.861 22.762 22.705	DIST. 0 I 2 3 4 5 6 7 8 9 ID GDR I 9.392 20.054 19.887 19.877 19.788 19.700 19.811 19.522 19.434 19.345 19.257 19.188	
GDR 2 9.527 22.639 22.627 22.618 22.611 22.607 22.581 22.510 22.441 22.375 22.311 22.249 GDR 3 9.482 22.103 22.091 22.081 22.075 22.071 22.050 21.994 21.889 21.840 21.792	GDR 2 9.392 20.049 19.976 19.902 19.629 19.755 19.682 19.606 19.535 19.461 19.388 19.314 GDR 3 9.392 20.044 19.986 19.927 19.609 19.611 19.752 19.694 19.635 19.577 19.519 19.460	
GDR 4 9.436 21.567 21.554 21.545 21.538 21.534 21.518 21.477 21.439 21.403 21.368 21.336 GDR 5 9.391 21.030 21.018 21.009 21.002 20.998 20.987 20.961 20.938 20.918 20.897 20.879	GDR 4 9.392 20.039 19.998 19.953 19.909 19.866 19.823 19.780 19.738 19.893 19.850 19.806 GDR 5 9.392 20.034 20.008 19.978 19.950 19.922 19.893 19.885 19.837 19.809 19.781 19.753	
GDR 6 9.345 20.494 20.492 20.472 20.486 20.452 20.456 20.457 20.437 20.430 20.426 20.423 GDR 7 9.300 19.957 19.945 19.936 19.929 19.925 19.925 19.925 19.935 19.944 19.954 19.954 19.967 GDR 8 9.254 19.420 19.409 19.309 19.308 19.308 19.304 19.434 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 19.458 1	GDR 8 9.392 19.849 19.621 19.793 19.765 19.737 19.708 19.680 19.652 19.624 19.596 19.568 GDR 7 9.392 19.664 19.636 19.608 19.580 19.552 19.523 19.495 19.407 19.439 19.411 19.363	
GDR 9 9.209 18.884 18.872 18.863 18.856 18.852 18.862 18.896 18.933 18.971 19.012 19.054	GDR 8 9.392 19.479 19.451 19.423 19.395 19.367 19.338 19.310 19.282 19.254 19.226 19.198 GDR 9 9.392 19.294 19.286 19.238 19.210 19.182 19.153 19.125 19.097 19.089 19.041 19.013	1
01ST. 0 1 2 3 4 5 6 7 6 9 10	SPAN 15 INCR. FINISHED GRADE ELEVATIONS AT POINTS DIST. 0 1 2 3 4 5 6 7 6 9 10	
LG 9.583 23.292 23.292 23.292 23.292 23.292 23.281 23.189 23.078 22.985 22.895 22.804	LF 9.392 20.056 19.962 19.887 19.773 19.678 19.584 19.490 19.395 19.301 19.208 19.112 LG 9.392 20.055 19.963 19.871 19.780 19.688 19.598 19.504 19.412 19.320 19.228 19.138	1
PG 9.392 21.030 21.030 21.030 21.030 21.030 20.020 20.992 20.984 20.938 20.908 20.879	LMG 9.392 20.035 20.005 19.975 19.945 19.948 19.888 19.858 19.828 19.796 19.797 19.737 PG 9.392 20.034 20.008 19.978 19.950 19.922 19.893 19.885 19.837 19.809 19.781 19.753	
RG 9.200 18.768 18.768 18.768 18.768 18.768 18.768 18.850 18.850 18.865 18.920 18.955	RMG 9.392 20.014 19.986 19.958 19.930 19.902 19.873 19.845 19.817 19.789 19.781 19.733 RG 9.392 19.254 19.228 19.198 19.170 19.142 19.113 19.085 19.057 19.029 19.001 18.973	
RF 9.192 18.679 18.679 18.679 18.679 18.679 18.691 18.729 16.767 18.804 18.842 18.879	RF 9.392 19.223 19.195 19.187 19.139 19.111 19.083 19.054 19.026 18.998 18.970 18.942	
SPAN 12 INCR. FINISHEO GRADE ELEVATIONS AT POINTS	SPAN 18 INCR. FINISHEO GRADE ELEVATIONS AT POINTS	
DIST. 0 1 2 3 4 5 6 7 6 9 10 GDR I 9.469 22.705 22.611 22.520 22.432 22.345 22.259 22.172 22.085 21.998 21.910 21.823	DIST. 0 1 2 3 4 5 6 7 6 9 10 CDR 1 9.392 19.168 19.079 18.991 18.928 18.900 18.872 18.843 18.815 18.790 18.790 18.790	
GDR 2 9.450 22.249 22.170 22.093 22.019 21.947 21.876 21.804 21.733 21.881 21.589 21.517 GDR 3 9.430 21.728 21.568 21.607 21.550 21.494 21.437 21.381 21.324 21.267 21.210	CDR 2 9.392 19.314 19.241 19.167 19.113 19.085 19.087 19.028 19.000 18.975 18.975 18.975 CDR 3 9.392 19.450 19.402 19.343 19.298 19.270 19.242 19.213 19.185 19.180 19.160 19.160	
GDR 4 9.411 21.335 21.286 21.240 21.195 21.153 21.112 21.070 21.029 20.986 20.946 20.904 GDR 5 9.391 20.879 20.845 20.813 20.784 20.756 20.730 20.704 20.577 20.851 20.624 20.598	GDR 4 9.392 19.606 19.563 19.520 19.483 19.455 19.427 19.398 19.370 19.345 19.345 19.345 GDR 5 9.392 19.753 19.724 19.696 19.668 19.640 19.612 19.583 19.555 19.530 19.530 19.530	
GDR 6 9.372 20.423 20.404 20.387 20.372 20.380 20.349 20.337 20.328 20.315 20.303 20.291 GDR 7 9.353 19.967 19.962 19.961 19.961 19.964 19.967 19.971 19.975 19.976 19.982 19.985	GDR 8 9.392 19.568 19.539 19.511 19.483 19.455 19.427 19.398 19.370 19.345 19.345 19.345 GDR 7 9.392 19.583 19.354 19.326 19.298 19.270 19.242 19.213 19.185 19.180 19.180 19.160	İ
GDR 8 9.333 19.510 19.521 19.534 19.550 19.568 19.587 19.605 19.624 19.642 19.661 19.679 GDR 9 9.314 19.054 19.080 19.109 19.139 19.172 19.206 19.240 19.273 19.306 19.340 19.373	GDR 8 9.392 19.196 19.159 19.141 19.113 19.085 19.087 19.028 19.000 18.975 18.975 18.975 GDR 9 9.392 19.013 18.984 18.956 18.928 18.900 18.872 18.843 18.815 18.790 18.790 18.790	
SPAN 12 INCR. FINISHED GRADE ELEVATIONS AT POINTS DIST. D 1 2 3 4 5 6 7 8 9 10	SPAN 16 INCR. FINISHEO GRADE ELEVATIONS AT POINTS DIST. 0 1 2 3 4 5 6 7 8 9 10	
LF 9.477 22.880 22.787 22.694 22.601 22.508 22.414 22.319 22.225 22.13C 22.035 21.940 LG 9.473 22.804 22.713 22.523 22.532 22.442 22.350 22.258 22.166 22.074 21.981 21.889	LF 9.392 19.112 19.018 18.923 18.857 18.829 18.801 18.773 18.744 18.719 18.719 18.719 (
LMG 9.394 20.929 20.899 20.859 20.839 20.810 20.780 20.750 20.720 20.690 20.661 20.631 PG 9.392 20.879 20.851 20.823 20.795 20.767 20.739 20.710 20.682 20.654 20.828 20.598	LMG 9.392 19.737 19.677 19.678 19.688 19.680 19.592 19.583 19.535 19.510 19.510 19.510 PG 9.392 19.753 19.754 19.696 19.688 19.880 19.612 19.583 19.555 19.530 19.530 19.530	
RMG 9.390 20.830 20.804 20.777 20.750 20.724 20.697 20.671 20.644 20.618 20.591 20.565 RG 9.310 18.935 18.991 19.026 19.062 19.097 19.132 19.167 19.202 19.237 19.272 19.306	RMG 9.392 19.733 19.704 19.676 19.648 19.620 19.592 19.563 19.535 19.510 19.510 19.510 () () () () () () () () () (1
RF 9.307 18.879 18.917 18.956 18.994 19.032 19.069 19.106 19.144 19.181 19.218 19.255	RF 9.392 18.942 18.913 18.885 18.857 18.829 18.801 18.773 18.744 18.719 18.719 18.719	
REVISIONS	NAME DATE BOARD OF COUNTY COMMISSIONERS	~
DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY	DESCRIPTION DR.BY MOD 5/93 Engineers. Architects CHK.BY REJ 8/93 G. F. S. B. F. J. B. C. J.	
PIOTTED WILLIAMS ON SC 50	SUPV. REJ 7/93 Nega Multa	

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Leg-		PROJECT NO. SHEET NO. 5896 C-58
SPAN 17 INCR. FINISHED GRADE ELEVATIONS AT POINTS	SPAN 21 INCR. FINISHED GRADE ELEVATIONS AT POINTS DIST. 0 1 2 3 4 5 6 7 8 9 10	3636 (36
OIST. 0 1 2 3 4 5 6 7 8 9 10 GDR 1 9.392 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790	01ST. 0 1 2 3 4 5 6 7 8 9 10 GDR 1 9.392 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790	BX1-68
GOR 2 9.392 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 [5]	GDR 2 9.392 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 GDR 3 9.392 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160	
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RF 9.392 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719	RF 9.392 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719	
SPAN 19 INCR. FINISHED GRADE ELEVATIONS AT POINTS	SPAN 23 INCR. FINISHED GRADE ELEVATIONS AT POINTS	
DIST. 0 1 2 3 4 5 6 7 8 9 10 GDR 1 9.392 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790	DIST. 0 1 2 3 4 5 6 7 8 9 10 GDR 1 9,392 18,790 18,790 18,790 18,790 18,790 18,790 18,790 18,790 18,790	1
GDR 2 9.392 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975	GDR 2 9.392 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975	
GDR 3 9.392 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 GDR 4 9.392 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345	GDR 5 9.392 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 GDR 4 9.392 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345	
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GDR 8 9.392 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 GDR 7 9.392 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160	GDR 8 9.392 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 19.345 GDR 7 9.392 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160 19.160	
GDR 8 9.392 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975	GDR 8 9.392 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975 18.975	
GDR 9 9.392 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 SPAN 19 INCR. FINISHED GRADE ELEVATIONS AT POINTS	GDR 9 9.592 18,790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 18.790 SPAN 23 INCR. FINISHED GRADE ELEVATIONS AT POINTS	
DIST. 0 1 2 3 4 5 6 7 8 9 10 LF 9.392 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719	DIST. 0 1 2 5 4 5 6 7 8 9 10 LF 9.392 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719 18.719	
LG 9.392 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750	LG 9.392 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750 18.750	
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REVISIONS	FINLEY MCNARY/JANSSEN SPAANS a Joint Venture Finley McNary Engineers, Inc. 1391 Timberlone Road Suite 200 1391 Timberlone

OR. BY J.L.S. 1/96 CH. BY C.W.M. 1/96 SUPV. H.D.R. 1/96

REVISIONS DATE BY

DESCRIPTION

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DESCRIPTION

DATE BY

DESCRIPTION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (9)

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

	PROJECT NO 9411 NO 5896 C-60A
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57.592 57.316 57.040 56.764 56.488 9.047 GDR 6 CDR 7 CDR 8 SPAN 47 60.627 60.378 60.124 59.864 59.599 59.328 59.045 58.769 58.493 58.217 57.941 57.665 57.389 57.113 56.837 56.561 56.265 60.424 60.175 59.921 59.661 59.396 59.125 58.842 58.566 58.290 58.014 57.738 57.462 57.186 56.910 56.634 56.358 56.082 9.047 63.305 63.480 63.649 63.811 63.956 64.115 64.756 64.391 64.519 64.640 64.755 64.863 64.944 65.058 65.145 65.226 65.300
FINISH GRADE ELEVATIONS AT POINTS

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FINISH GRADE ELEVATIONS AT POINTS 9.047 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 63.206 63.381 63.550 63.712 63.867 64.015 64.151 64.792 64.420 64.541 64.656 64.763 64.864 64.999 65.046 65.127 65.200 63.286 63.417 65.581 63.743 63.888 64.046 64.188 64.323 64.491 64.572 64.687 64.794 64.895 64.896 65.127 65.200 63.996 64.172 64.314 64.603 64.586 64.868 65.203 65.210 65.312 65.312 65.417 65.591 65.817 65.818 64.818 64.818 64.818 65.818 65.818 65.118 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 65.318 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64.046 64.188 64.373 64.451 64.572 64.687 64.794 64.895 64.989 65.077 65.157 65.231 63.381 63.550 63.717 63.867 64.015 64.157 64.297 64.420 64.541 64.656 64.763 64.864 64.959 65.046 65.127 65.200 60.121 59.872 59.618 59.359 59.093 58.823 58.539 58.763 57.987 57.711 57.435 57.159 56.883 56.607 56.331 56.055 CINISH GRADE ELEVATIONS AT POINTS 0 1 7 3 4 5 6 7 8 9 10 11 17 13 14 15 16 17 18 19 20 65.300 65.31 65.410 65.57 65.646 65.657 65.643 65.657 65.594 65.595 65.518 65.470 65.415 65.353 0157. 65.503 65.570 65.630 65.684 65.731 65.770 65.804 65.830 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 65.850 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0 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

65.200 65.268 65.328 65.338 65.381 65.428 65.468 65.501 65.528 65.547 65.550 65.550 65.550 65.550 65.550 65.550 65.550 65.540 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 65.400 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66 FINISH GRADE ELEVATIONS AT POINTS FINISH GRADE ELEVATIONS AT POINTS THIS CRADE ELEVATIONS AT POINTS

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65.566 65.488 65.412 65.330 65.241 65.146 65.043 64.934 64.818 64.695 64.566 64.430 64.287 64.137 63.980 63.817 63.646

65.760 65.691 65.616 65.534 65.445 65.349 65.247 65.138 65.022 64.999 64.769 64.633 64.490 64.340 64.183 64.020 63.850

65.963 65.894 65.819 65.737 65.648 65.552 65.450 65.341 65.225 65.102 64.973 64.836 64.693 64.543 64.387 64.223 64.053

65.963 65.894 65.819 65.737 65.648 65.552 65.450 65.341 65.225 65.102 64.973 64.836 64.693 64.543 64.543 64.220 66.053 1210 55.878 55.602 55.326 55.050 54.774 54.498 54.222 53.946 53.670 53.394 53.118 52.842 52.566 52.290 52.014 51.738 51.462 9.047 56.082 55.806 55.530 55.254 54.978 54.701 54.425 54.149 53.873 53.597 53.321 53.045 52.769 52.493 52.217 51.941 51.665 56.285 56.009 55.733 55.457 55.181 54.905 54.629 54.353 54.077 53.801 53.525 53.249 52.973 52.697 52.421 52.145 51.869 56.488 56.212 55.936 55.660 55.384 55.108 54.832 54.556 54.280 54.004 53.728 53.452 53.176 52.900 52.624 52.348 52.072 56.488 56.212 55.936 55.650 55.384 55.108 54.832 54.556 54.280 54.004 53.728 53.452 53.176 52.900 52.624 52.348 52.072 56.285 56.009 55.733 55.457 55.181 54.905 54.629 54.833 54.077 53.801 53.525 53.249 52.973 52.697 52.421 52.145 51.869 56.082 55.806 55.530 55.254 54.978 54.701 54.425 54.149 53.873 53.595 53.249 53.045 52.693 52.493 52.277 51.941 51.665 9.047 55.750 65.691 65.616 65.534 65.445 65.349 65.247 65.138 65.022 64.899 64.769 64.633 64.490 64.340 64.183 64.020 63.850 65.556 65.488 65.412 65.330 65.241 65.146 65.043 64.934 64.818 64.695 64.566 64.430 64.287 64.137 63.980 63.817 63.646 9.047 9.047 65.353 65.284 65.209 65.127 65.038 64.942 64.840 64.731 64.615 64.492 64.363 64.226 64.083 63.933 63.777 63.613 63.443
FINISH GRADE ELEVATIONS AT POINTS 9.047 INCR. 55.878 55.602 55.326 55.050 54.774 54.498 54.222 53.946 53.670 53.394 53.118 52.842 52.566 52.290 52.014 51.738 51.462 FINISH GRADE ELEVATIONS AT POINTS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 65.254 65.185 65.110 65.028 64.939 64.843 64.741 64.632 64.516 64.393 64.263 64.127 63.984 63.834 63.678 63.514 63.344 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 55.779 55.503 55.227 54.951 54.675 54.399 54.123 53.847 53.571 53.295 53.019 52.743 52.467 52.191 51.915 51.639 51.363 55.810 55.534 55.258 54.982 54.706 54.430 54.154 53.878 53.602 53.162 53.050 52.774 52.498 52.222 51.946 51.670 51.394 56.570 56.294 56.018 55.742 55.466 55.190 54.914 54.638 54.362 54.066 53.810 53.534 53.258 52.982 52.706 52.430 52.154 56.590 56.314 56.038 55.762 55.486 55.210 54.934 54.658 54.382 54.106 53.830 53.554 53.278 53.002 52.726 52.450 52.174 65.285 65.216 65.141 65.059 64.970 64.874 64.772 64.663 64.547 64.424 64.294 64.158 64.015 63.865 63.708 63.545 63.375 66.045 65.976 65.976 65.976 65.976 65.976 65.976 65.978 65.819 65.730 65.634 65.532 65.430 65.307 65.184 65.054 64.918 64.775 64.625 64.468 64.305 64.135 66.265 65.396 65.921 65.839 65.750 65.654 65.552 65.43 65.327 65.204 65.014 64.938 64.795 64.665 64.688 64.325 64.155 66.265 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65.376 65. 9.047 9.047 56.570 56.594 56.018 55.742 55.466 55.190 54.914 54.638 54.362 54.086 53.810 53.534 53.258 52.982 52.706 52.430 52.154 55.810 55.534 55.258 54.982 54.706 54.430 54.154 53.878 53.602 53.326 53.050 52.774 52.498 52.222 51.946 51.670 51.394 55.779 55.503 55.227 54.951 54.675 54.399 54.123 53.847 53.571 53.295 53.019 52.743 52.467 52.191 51.915 51.639 51.363 INLEY McNARY/JANSSEN SPAANS Joint Venture Finley McNary Engineers, Inc Jonssen & Spagns Engineers, Inc 2825 East 56th Street Indianapolis, Indiana 46220 1391 Timberlane Road Suite 200 Tallahassee, Florica 32312-1721

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REVISIONS

DESCRIPTION

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MIDPOINT BRIDGE

FINISH GRADE ELEVATIONS (11)

BOARD OF COUNTY COMMISSIONERS

LEE, COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

PROJECT NO. 5896 BX1-72 FINISH GRADE ELEVATIONS AT POINTS FINISH GRADE ELEVATIONS AT POINTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

51.462 51.186 50.910 50.634 50.358 50.082 49.806 49.530 49.254 48.978 48.702 48.426 48.150 47.874 47.598 47.322 47.046

51.665 51.389 51.113 50.837 50.561 50.285 50.009 49.733 49.457 49.181 48.905 48.629 48.353 48.077 47.801 47.592 47.249

51.669 51.590 51.500 51.244 50.968 50.692 50.416 50.140 49.864 49.588 49.312 49.036 48.760 48.484 48.208 47.904 47.782 47.452

52.072 51.796 51.520 51.244 50.968 50.692 50.416 50.140 49.864 49.588 49.312 49.036 48.760 48.484 48.208 47.912 47.656

52.072 51.796 51.500 51.244 50.968 50.692 50.416 50.140 49.864 49.588 49.312 49.036 48.760 48.484 48.208 47.912 47.656

51.869 51.593 51.317 51.041 50.765 50.488 50.692 50.416 50.140 49.864 49.588 49.312 49.036 48.760 48.840 48.004 47.728 47.452

51.869 51.593 51.317 51.041 50.765 50.488 50.212 49.936 49.660 49.584 49.108 49.312 49.036 48.760 48.840 48.004 47.728 47.452

51.665 51.389 51.113 50.837 50.561 50.285 50.009 49.733 49.457 49.181 48.905 48.629 48.353 48.077 47.801 47.525 47.249

51.462 51.186 50.910 50.634 50.634 50.062 49.806 49.530 49.254 48.978 48.702 48.426 48.150 47.874 47.598 47.322 47.046 SPAN 52 INCR FINISH GRADE ELEVATIONS AT POINTS 01ST. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 33.797 33.521 33.245 32.969 32.693 32.417 32.141 31.864 31.588 31.312 31.036 30.760 30.484 30.208 29.932 29.656 29.380 9.047 34.000 33.724 33.448 33.172 32.896 32.620 32.344 32.068 31.792 31.516 31.240 30.964 30.688 34.203 33.927 33.651 33.375 33.099 32.823 32.547 32.271 31.995 31.719 31.443 31.167 30.891 30.615 30.339 30.063 29.787 COR 4 COR 5 COR 6 COR 7 COR 8 34.407 34.131 33.855 33.579 33.303 33.027 32.751 32.474 32.198 31.922 31.646 31.370 31.094 30.818 30.542 30.266 29.990 34.407 34.131 33.855 33.579 33.303 33.027 32.751 32.474 32.198 31.922 31.646 31.370 31.094 30.818 30.542 30.266 29.990 34.407 34.131 33.855 33.579 33.303 33.027 32.751 32.474 32.198 31.922 31.646 31.370 31.094 30.818 30.542 30.266 29.990 34.203 33.927 33.651 33.375 33.099 32.823 32.547 32.271 31.995 31.719 31.443 31.167 30.891 30.615 30.339 30.663 29.787 34.000 33.724 33.448 33.172 32.896 32.620 32.344 32.068 31.792 31.516 31.240 30.644 30.688 30.412 30.136 29.860 29.584 33.791 33.521 33.245 32.969 32.693 32.417 32.141 31.864 31.588 31.312 31.036 30.760 30.484 30.208 29.932 29.656 29.380 9.047 9.047 9.041 9.047 51.462 51.186 50.910 50.634 50.585 50.082 49.806 49.530 49.254 48.978 48.702 48.426 48.150 47.874 47.598 47.322 47.046

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

51.363 51.087 50.811 50.535 50.259 49.983 49.707 49.431 49.155 48.879 48.603 48.327 48.051 47.774 47.98 47.222 46.946

51.346 51.878 51.602 51.326 50.505 50.773 50.497 50.221 49.945 49.669 49.393 49.117 48.841 48.565 48.299 48.033 47.373

52.154 51.878 51.602 51.346 51.070 50.773 50.497 50.221 49.945 49.669 49.393 49.117 48.841 48.565 48.299 48.033 47.737

52.154 51.878 51.602 51.326 51.050 50.773 50.497 50.221 49.945 49.669 49.393 49.117 48.841 48.565 48.299 48.033 47.737

52.154 51.878 51.602 51.326 51.050 50.773 50.497 50.221 49.945 49.669 49.393 49.117 48.841 48.565 48.299 48.033 47.737

52.154 51.878 51.602 51.326 51.050 50.773 50.497 50.221 49.945 49.669 49.393 49.117 48.841 48.565 48.299 48.033 47.757

52.154 51.878 51.602 51.326 51.050 50.773 50.497 50.221 49.945 49.669 49.393 49.117 48.841 48.565 48.299 48.033 47.573

52.154 51.878 51.682 50.566 50.290 50.073 49.431 49.155 48.909 48.633 48.357 48.081 47.805 47.529 47.253 46.977

52.154 51.878 51.602 50.878 50.291 49.983 49.107 49.431 49.155 48.809 48.633 48.357 48.081 47.805 47.529 47.253 46.977 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 33.697 33.421 33.145 32.869 32.593 32.317 32.041 31.765 31.489 31.213 30.937 30.661 30.385 30.109 29.833 29.557 29.281 33.728 33.452 33.176 32.900 32.624 32.348 32.072 31.796 31.520 31.244 30.986 30.692 30.416 30.100 29.864 29.588 29.312 34.488 34.212 33.985 33.680 33.484 33.108 32.832 32.556 32.280 32.080 31.728 31.452 31.165 30.902 30.644 30.368 30.992 30.645 30.992 34.488 34.212 33.936 33.660 33.384 33.108 32.832 32.556 32.280 32.004 31.728 31.452 31.176 30.900 30.624 30.348 30.072 33.728 33.452 33.176 32.900 32.624 32.348 32.072 31.796 31.520 31.244 30.968 30.692 30.416 30.140 29.864 29.586 29.312 33.697 33.421 33.145 32.869 32.593 32.317 32.041 31.765 31.489 31.213 30.937 30.661 30.385 30.109 29.833 29.557 29.281 FINISH GRADE ELEVATIONS AT POINTS

1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

7 47.046 46.770 46.494 46.218 45.942 45.666 45.389 45.113 44.837 44.561 44.285 44.009 43.733 43.457 43.181 42.905 42.639

7 47.429 46.973 46.697 46.421 46.145 45.869 45.593 45.317 45.041 44.765 44.489 44.213 43.937 43.661 43.385 43.109 42.633

7 47.452 47.176 46.900 46.624 46.348 46.072 45.796 45.520 45.244 44.968 44.692 44.416 44.140 43.864 43.588 43.312 43.036

7 47.656 47.380 47.104 46.828 46.552 46.276 45.999 45.723 45.447 45.171 44.895 44.619 44.343 44.067 43.791 43.515 43.239

1 47.452 47.176 46.900 46.624 46.348 46.072 45.796 45.520 45.244 44.968 44.692 44.416 44.140 43.864 43.588 43.312 43.036

1 47.249 46.973 46.97 46.421 46.828 46.552 46.276 45.999 45.723 45.447 45.171 44.895 44.619 44.343 44.067 43.791 43.515 43.239

1 47.452 47.176 46.900 46.624 46.348 46.072 45.796 45.520 45.244 44.968 44.692 44.416 44.140 43.864 43.588 43.312 43.036

1 47.249 46.973 46.697 46.421 46.145 45.869 45.593 45.593 45.317 45.041 44.765 44.489 44.213 43.937 43.661 43.385 43.109 42.833

47.046 46.770 46.494 46.218 45.942 45.666 45.389 45.131 44.361 44.561 44.285 44.009 43.733 43.457 43.181 42.905 42.679

FINISH GRADE ELEVATIONS AT POINTS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 13 14 15 16

1 46.94 46.71 46.870 46.494 46.218 45.666 45.389 45.113 44.831 44.851 44.698 44.294 44.109 43.733 43.457 43.181 42.905 42.679

FINISH GRADE ELEVATIONS AT POINTS SPAN 53 INCR FINISH GRADE ELEVATIONS AT POINTS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
29.380 29.104 28.828 28.552 28.276 28.000 27.726 27.456 27.191 26.913 26.676 26.629 26.384 26.144 25.909 25.475 25.250
29.584 29.308 29.032 28.556 28.480 28.204 27.929 27.659 27.394 27.134 26.819 26.667 26.629 26.384 26.144 25.909 25.475 25.455
29.787 29.511 29.235 28.959 28.683 28.407 28.133 27.863 27.597 27.337 27.092 26.832 26.567 26.347 26.112 25.882 25.657
29.990 29.714 29.438 29.162 28.886 28.610 28.336 28.066 27.801 27.541 27.286 27.036 26.790 26.550 26.315 26.085 25.860
29.990 29.714 29.438 29.162 28.886 28.610 28.336 28.066 27.801 27.541 27.286 27.036 26.790 26.550 26.315 26.085 25.860
29.990 29.714 29.438 29.162 28.886 28.610 28.336 28.066 27.801 27.541 27.286 27.036 26.790 26.550 26.315 26.085 25.860
29.900 29.714 29.438 29.162 28.886 28.610 28.336 28.066 27.801 27.541 27.286 27.036 26.790 26.550 26.315 26.085 25.860
29.90 29.714 29.438 29.162 28.886 28.610 28.336 28.066 27.801 27.541 27.286 27.036 26.790 26.550 26.315 26.085 25.860
29.90 29.714 29.438 29.162 28.886 28.610 28.336 28.066 27.801 27.541 27.286 27.036 26.790 25.550 26.315 26.085 25.860
29.90 29.714 29.438 29.162 28.866 28.610 28.336 28.066 27.801 27.591 27.337 27.092 26.832 26.567 26.347 26.112 25.882 25.657
29.581 29.308 29.032 28.756 28.480 28.200 27.726 27.456 27.191 26.931 26.931 26.616 26.426 26.180 25.940 25.679 25.475 25.250

FINISH GRADE ELEVATIONS AF POINTS

0 1 2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16
29.281 29.005 28.729 28.463 28.171 27.901 27.658 27.388 27.122 26.862 26.607 26.357 26.112 25.812 25.637 25.407 25.182 29.312 29.035 28.760 29.244 28.988 28.692 28.418 28.148 27.882 27.622 27.367 27.117 26.812 25.652 26.617 25.942 29.312 29.036 28.760 28.484 28.208 27.932 28.418 28.148 27.802 27.622 27.367 27.117 26.812 25.652 26.417 26.187 25.942 29.312 29.036 28.760 28.484 28.208 27.932 27.658 27.388 27.122 26.862 26.607 26.357 26.112 25.872 25.657 25.407 25.182 29.312 29.036 28.760 28.484 28.208 27.932 28.418 28.148 27.802 27.622 27.367 27.117 26.812 25.652 26.617 25.617 25.942 29.312 29.0 9.047 DIST. 9.047 9.047 9.047 9.047 9.047 FINISH GRADE ELEVATIONS AT POINTS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

46.946 46.670 46.394 46.118 45.842 45.566 45.290 45.014 44.738 44.462 44.186 43.910 43.634 43.358 43.082 42.806 42.530

46.917 46.701 46.425 46.149 45.873 45.597 45.321 45.045 44.738 44.493 44.217 43.941 43.665 43.389 43.113 42.837 42.561

47.737 47.461 47.185 46.999 46.633 46.357 46.081 45.805 45.529 45.253 44.937 44.701 44.425 44.149 43.873 43.597 43.321

47.737 47.461 47.85 46.99 46.653 46.357 46.081 45.805 45.829 45.253 44.937 44.701 44.425 44.149 43.873 43.597 43.321

47.737 47.461 47.86 47.185 46.999 46.653 46.357 46.081 45.805 45.529 45.253 44.977 44.701 44.425 44.149 43.873 43.597 43.321

47.737 47.461 47.185 46.999 46.653 46.357 46.081 45.805 45.529 45.253 44.977 44.701 44.425 44.149 43.873 43.597 43.321

46.977 46.701 46.425 46.149 45.873 45.597 45.321 45.045 44.769 44.493 44.701 44.425 44.149 43.873 43.597 43.321

46.977 46.701 46.425 46.149 45.873 45.597 45.321 45.045 44.769 44.493 44.701 44.425 44.149 43.873 43.597 43.241

46.974 46.701 46.425 46.149 45.873 45.597 45.321 45.045 44.769 44.493 44.701 44.425 44.149 43.873 43.597 43.321

46.974 46.701 46.425 46.149 45.873 45.597 45.321 45.045 44.769 44.493 44.701 44.425 44.149 43.873 43.597 43.321 9.047 FINISH GRADE ELEVATIONS AT POINTS SPAN 54 INCR. FINISH GRADE ELEVATIONS AT POINTS SPAN 50 INCR. FINISH GRADE ELEVATIONS AT POINTS

0 1 2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16

42.629 42.353 42.077 41.801 41.525 41.249 40.973 40.697 40.421 40.145 39.869 39.593 39.317 39.041 38.765 38.489 38.213

42.833 42.557 42.281 42.005 41.729 41.453 41.176 40.900 40.628 40.552 40.276 40.000 39.724 39.446 39.172 38.866 38.692 38.416

43.036 42.760 42.464 42.208 41.932 41.656 41.380 41.004 40.828 40.552 40.276 40.000 39.724 39.446 39.172 38.865 38.652

43.239 42.963 42.687 42.411 42.135 41.859 41.583 41.307 41.031 40.755 40.479 40.203 39.927 39.651 39.375 39.099 38.823

43.036 42.760 42.484 42.208 41.932 41.656 41.380 41.104 40.828 40.552 40.276 40.203 39.927 39.651 39.375 39.099 38.823

43.036 42.760 42.484 42.208 41.932 41.656 41.380 41.104 40.828 40.552 40.276 40.000 39.724 39.446 39.172 38.865 38.652

42.833 42.557 42.281 42.005 41.729 41.453 41.176 40.900 40.624 40.348 40.072 39.796 39.520 39.244 39.968 38.692 38.642 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
25.250 25.030 24.815 24.605 24.400 24.199 74.004 23.814 23.629 23.449 23.274 23.104 22.938 22.778 22.623 22.473 22.328
25.453 25.233 25.018 24.808 24.603 24.403 24.208 24.018 23.822 23.652 23.477 23.307 23.142 22.981 22.826 22.676 22.531
25.657 25.437 25.222 25.011 24.806 24.606 24.411 24.221 24.036 23.856 23.680 23.510 23.345 23.185 23.030 22.879 22.734
25.860 25.640 25.425 25.215 25.010 24.809 24.614 24.221 24.036 23.856 23.680 23.510 23.345 23.185 23.030 22.879 22.734
25.860 25.640 25.425 25.215 25.010 24.809 24.614 24.424 24.239 24.059 23.884 23.714 23.588 23.233 23.085 23.233 23.083 22.938
25.860 25.640 25.425 25.215 25.010 24.809 24.614 24.424 24.239 24.059 23.884 23.714 23.586 23.433 23.286 23.233 23.003 22.938
25.860 25.640 25.425 25.215 25.010 24.809 24.614 24.424 24.242 24.032 23.055 23.743 23.586 23.433 23.286 23.144 23.007
25.657 25.437 25.222 25.011 24.806 24.606 24.411 24.221 24.052 23.896 23.744 23.598 23.457 23.321 23.189 23.063 22.938
25.453 25.233 25.018 24.808 24.603 24.403 24.208 24.018 23.859 23.719 23.584 23.328 23.200 23.095 22.992 22.817
25.250 25.030 24.815 24.605 24.400 24.199 24.004 23.814 23.667 23.543 23.423 23.309 23.200 23.095 22.996 22.907 22.812

FINISH CRAOE ELEVALIONS AT POINTS

0 1. 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 OIST. 9.047 GDR 2 GDR 3 GDR 4 GDR 5 GDR 6 GDR 7 9.047 42.629 42.353 42.077 41.801 41.525 41.249 40.973 40.697 40.421 40.145 39.869 39.593 39.317 39.041 38.765 38.489 38.213
FINISH GRADE ELEVATIONS AT POINTS COR E 9.041 FINISH GRADE ELEVATIONS AT POINTS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

42.530 42.254 41.978 41.702 41.426 41.150 40.874 40.598 40.322 40.046 39.770 39.494 39.218 38.942 38.666 38.390 38.114

42.561 42.285 42.09 41.733 41.457 41.181 40.905 40.629 40.353 40.017 39.801 39.525 39.249 38.973 38.697 38.421 38.145

43.321 43.045 42.769 42.493 42.217 41.941 41.665 41.389 41.113 40.837 40.561 40.285 40.009 39.733 39.457 39.181 38.905

43.321 43.045 42.769 42.493 42.217 41.941 41.665 41.389 41.113 40.837 40.561 40.285 40.009 39.733 39.457 39.181 38.905

43.321 43.045 42.769 42.493 42.217 41.941 41.665 41.389 41.113 40.837 40.561 40.285 40.009 39.733 39.457 39.181 38.905

42.561 42.285 42.009 41.733 41.457 41.181 40.905 40.629 40.535 40.077 39.801 39.525 39.247 39.261 38.421 38.455

42.561 42.285 42.009 41.733 41.457 41.181 40.905 40.629 40.535 40.077 39.801 39.525 39.249 38.666 38.390 38.114 0 1, 2 3, 4 50 5 6 7 8 9 9 10 11 12 13 14 15 16 25.162 24.506 24.500 24.100 23.905 23.115 23.501 23.500 23.155 23.500 23.155 23.500 23.155 23.500 23.155 23.500 23.155 23.500 23.155 23.500 23.155 23.004 22.839 22.679 22.524 22.374 22.228 25.162 24.962 24.747 24.536 24.331 24.131 24.936 23.146 23.061 23.061 23.055 23.055 22.870 22.110 22.555 22.604 22.529 25.922 25.507 25.256 25.091 24.891 24.696 24.506 24.321 24.141 23.965 23.795 23.600 23.470 23.315 23.164 23.099 25.962 25.142 25.577 25.316 25.111 24.911 24.716 24.526 24.341 24.161 23.985 23.815 23.650 23.490 23.355 23.184 25.039 25.947 25.722 25.507 25.296 25.091 24.891 24.696 24.506 24.322 24.143 23.970 23.801 23.637 23.479 23.325 23.176 23.033 25.182 24.967 24.747 24.536 24.331 24.131 23.936 23.746 73.602 23.483 23.369 23.260 23.156 23.057 27.963 22.874 22.790 9.047 42.530 42.254 41.978 41.702 41.426 41.150 40.874 40.598 40.322 40.046 39.770 39.494 39.218 38.942 38.666 38.390 38.114 25.151 24.931 24.716 24.506 24.300 24.100 23.905 23.715 23.573 23.456 23.345 23.238 23.137 23.040 22.949 22.862 22.781 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
38.141 37.937 37.661 37.385 37.193 36.833 36.557 36.281 36.005 35.729 35.453 35.177 34.901 34.625 34.349 34.073 33.727
38.416 38.140 37.864 37.588 37.312 37.036 36.760 36.484 36.208 35.932 35.656 35.380 35.104 34.828 34.552 34.276 34.000
38.620 38.344 38.068 37.732 37.516 37.240 36.964 36.681 36.411 36.135 35.859 35.380 35.104 34.828 34.552 34.276 34.000
38.823 38.547 38.271 37.995 37.719 37.443 37.167 36.891 36.615 36.615 36.519 36.063 35.781 35.511 35.235 34.683 34.407
38.620 38.344 38.068 37.732 37.516 37.240 36.964 36.687 36.615 36.319 36.063 35.781 35.511 35.235 34.959 34.683 34.407
38.620 38.344 38.068 37.732 37.516 37.240 36.964 36.687 36.615 36.319 36.053 35.781 35.511 35.235 34.959 34.683 34.407
38.620 38.344 38.068 37.732 37.516 37.240 36.964 36.687 36.411 36.135 35.859 35.583 35.307 35.031 34.755 34.683 34.407
38.620 38.344 38.068 37.732 37.516 37.240 36.964 36.687 36.411 36.135 35.859 35.583 35.307 35.031 34.755 34.479 34.707
38.630 38.140 37.664 37.588 37.312 37.036 36.760 36.484 36.208 35.932 35.656 35.380 35.104 34.828 34.552 34.276 34.000
38.213 37.937 37.661 37.385 37.109 36.833 36.557 36.281 36.005 35.729 35.455 35.107 34.901 34.625 34.349 34.013 33.797
FINIS CRADE ELEVATIONS AI POINTS

FINISH CRADE ELEVATIONS AI POINTS

FINISH CRADE ELEVATIONS AI POINTS

FINISH CRADE ELEVATIONS AI POINTS FINISH GRADE ELEVATIONS AT POINTS FINISH GRADE ELEVATIONS AT POINTS

0 1 2 3 4 5 6 7 8 9 10

22.299 22.154 22.014 21.879 21.750 21.626 21.507 21.394 21.286 21.184 21.087

22.484 22.339 22.199 22.064 21.935 21.811 21.697 21.519 21.471 21.369 21.272

22.669 22.524 22.334 22.249 22.120 21.996 21.817 21.764 21.656 21.554 21.457

22.854 22.709 22.569 22.434 22.305 27.181 27.062 21.949 21.841 21.739 21.642

23.039 22.894 22.754 22.619 22.430 27.366 27.247 22.134 22.066 21.924 21.827

22.980 27.850 27.275 22.605 22.491 22.387 22.279 22.181 22.086 22.001 21.919

22.921 22.806 27.696 27.696 22.591 22.492 22.399 27.310 22.277 22.149 22.077 22.010 0151. 9.047 9.392 9.392 9.392 9.392 GDR 7 GDR 8 9.392 9.392 22.862 22.762 27.617 27.578 22.494 22.415 22.342 27.274 22.211 22.154 27.102 22.803 27.718 27.638 22.564 22.495 27.431 22.373 22.370 22.273 27.230 27.194 9.047 72.803 72.718 77.838 72.508 72.495 72.431 72.370 72.719 72.370 72.719 72.370 72.719 72.370 72.719 72.370 72.719 72.370 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72.719 72 SPAN 55 INCR. 23.033 22.889 22.751 27.618 22.490 77.368 22.251 27.139 27.033 21.932 21.831 27.790 22.709 22.632 27.561 22.495 22.435 27.500 22.300 27.786 22.247 22.781 22.701 27.627 27.559 22.495 22.431 22.365 22.138 27.296 22.200 72.274 INLEY MCNARY/JANSSEN SPAANS Joint Venture inter McNary Engineers, Inc. Jonssen & Spagna Engineers, Inc 2825 East 56th Street Indianapalis, Indiana 46220 1591 Timberlane Road Suite 201 Fallahussee, Florida 32312-1771

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FINLEY MONARY/JANSSEN SPAANS

REVISIONS

DESCRIPTION

DATE

DATE

OCSCRPTION

BOARD OF COUNTY COMMISSIONERS
LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (12)

1		PROJECT NO. SPEET NO.
	SPAN 56 INCR. OIST. O	SPAN 60 INCR. OIST. 0 1 2 3 4 5 6 7 F 8 9 :0 COR 1 9.209 18.854 18.842 18.833 18.826 18.822 18.821 18.822 18.825 18.833 18.824 18.854 COR 2 9.254 19.390 19.379 19.369 19.363 19.359 19.558 19.359 19.363 19.359 19.363 19.359 19.363 19.369 19.359 19.363 19.369 19.359 19.363 19.369 19.359 19.895 19.897 19.906 19.995 19.897 19.906 19.995 19.899 19.895 19.899 19.895 19.899 F 19.906 19.915 19.927 COR 4 9.345 20.463 20.452 20.442 20.436 20.432 20.430 20.432 20.436 62.422 20.452 20.463 COR 5 9.391 21.000 20.988 20.973 20.972 20.968 20.967 20.968 20.972 F 20.979 20.988 21.000 COR 6 9.436 21.537 21.524 21.515 21.504 21.504 21.503 21.504 21.508 F 21.515 21.524 21.517 COR 7 9.482 22.073 22.061 22.051 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.041 22.045 22.045 22.041 22.045 22.045 22.041 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22.045 22
	SPAN 57 INCR. OIST. O	SPAN 61
	SPAN 58 INCR. DIST. DIST. FINISHED GRADE ELEVATIONS AT POINTS	SPAN 67 INCR. OIS1. 0 1 2 3 4 5 6 7 6 8 9 10 GOR 1 5.709 18.854 18.842 18.833 18.826 18.822 18.821 18.822 18.826 F 18.833 18.840 18.840 19.379 19.379 19.363 19.363 19.359 19.363 19.363 19.369 19.363 19.369 19.363 19.369 19.363 19.369 19.363 19.369 19.363 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.379 19.376 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.369 19.3
	SPAN 59 INCR. FINISHED CRADE ELEVATIONS AT POINTS	SPAN 63
	DE VISTANIS	FINLEY MCNARY/JANSSEN SPAANS a Joint Venture Finley McNery Engineers, Inc. 1391 Tenderkins, Roud Suite 200 Ph25 Cast 56th Street Followinsee, Flyinde 3/312 1721 Indianapolis, indiana 46/20

FINLEY MONARY/JANSSEN SPAANS

HME DATE

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CWM. 1/36

HDR. 1/36

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DESCRIPTION

REVISIONS DATE

DAIL 67

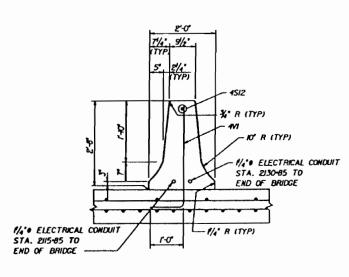
DESCRIPTION

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FINISH GRADE ELEVATIONS (13)

I. FOR GENERAL NOTES, SEE SHEET C-1 & C-2.

- 2. LEGEND:
 (A) EXPANSION JOINT. SEE DETAILS, SHEET C+04.
 - (B) & 1/2' V-GROOVE IN BOTH FACES AND TOP OF BARRIER.
 - C & X' OPEN JOINT IN BARRIER. MOTE, JOINTS & GROOVES SHALL BE PLACED IN WEDIAN BARRIER AT LOCATIONS OPPOSITE THE JOINTS AND GROOVES IN THE TRAFFIC RAILING BARRIERS.
- 3. ALL REINFORCING STEEL SHALL HAVE 2' CLEAR COVER UNLESS NOTED OTHERWISE.
- 4. BAR 5V IS INCLUDED IN THE COST FOR TRAFFIC RAILING BARRIER.
- 5. BARS 4VI AND 4SI2 ARE INCLUDED IN THE COST OF THE MEDIAN BARRIER.
- 6. THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR THE COMPLETION OF THE ELECTRICAL INSTALLATION WITHIN THE LIMITS SHOWN ON THE PLANS, INCLUDING ALL CONDUITS. EXPANSION COUPLINGS, JUNCTION BOXES, PULL BOXES AND MISCELLANEOUS HARDWARE SHALL BE CONSIDERED INCIDENTAL WORK AND INCLUDED IN THE CONTRACTORS BID PRICE FOR CLASS II CONCRETE (SUPERSTRUCTURE).
- 1. TRANSYERSE 5SI BARS (RADIAL) SPACING IS MEASURED ALONG THE LEFT GUTTER LINE.
- 8.452, 454 AND 456 BARS IN THE CANTILEVERED SLABS SHALL BE PLACED PARALLEL TO THE SLAB FASCIAS.
- 9. FOR DRAIN DETAILS, SEE SHEET CHOT.



MEDIAN BARRIER SECTION

QUANTITIES PER	LW. FT.
CONCRETE	0 JI9 CU. YD.
REINFORCING STEEL	3.34 LDS.

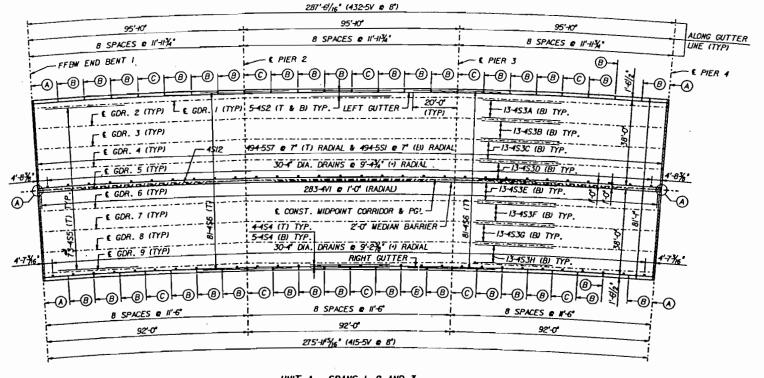
WORK THIS SHEET WITH SHEETS C-69 &

REVISIONS DR. BY JEH DATE BY DATE BY DATE BY DESCRIPTION DESCRIPTION DESCRIPTION DATE BY DESCRIPTION CHK. BY REJ SUPY. REJ 7/93

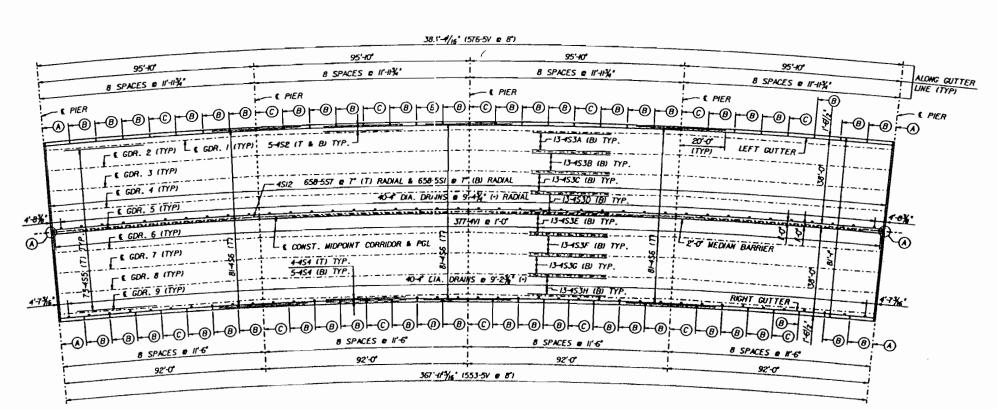
Engineers. Architects end Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE SUPERSTRUCTURE PLANS - SPANS I THRU I



UNIT A - SPANS I, 2 AND 3



UNITS B AND C - SPANS 4 THRU II

BUNIT CUNIT DUNIT E UNIT F	UNIT G UNIT H UNIT I UN	NIT J UNIT K UNIT L	UNIT M UNIT N UNIT P UN A UN S UN T
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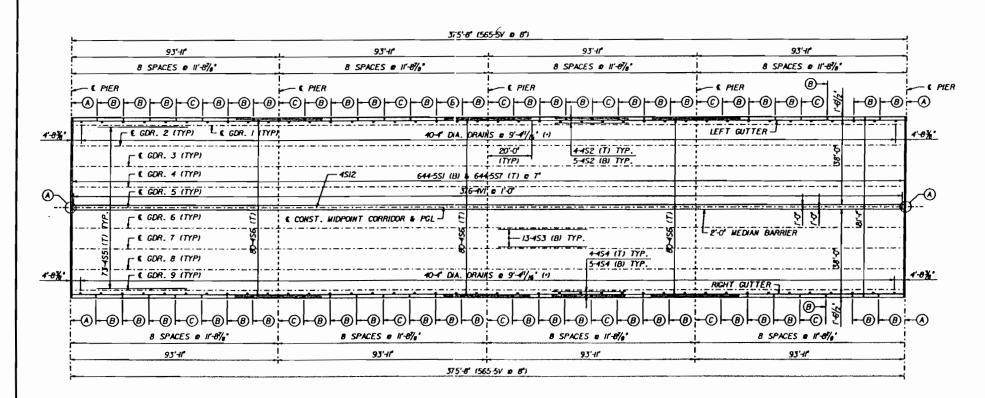
KEY PLAN

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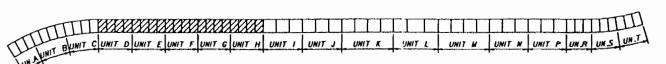
376'-517/16° (565-5V @ 8") 93'H 93'-11" ALONG GUTTER 94'-8'3/16" 93'-11" LINE (TYP) 8 SPACES @ II'-HO/8'(-) 8 SPACES @ II'-8% 8 SPACES @ 11'-8% B SPACES @ II'-8% **B**-- € PIER 16 - € PIER 12 -B+B+-A <u>+@+®+®+®+®+®+®+®+®+®+®+®+®+®+®</u> 20'-0' IFFT QITTER--13-453A (B) TYP. 10-4" DIA. DRAINS @ 9"-4"/16" (L COR. I (TYP) -- 13-453B (B) TYP. r € GDR. 3 (TYP) r € GDR. 4 (TYP) - 4SI2 — 13-4S3C (B) TYP. 646-551 (B) & 646-557 (T) @ 7° 10-4 DIA. DRAINS . 9-4% (-) 22-4" DIA. CRAINS 0.9'-41/16" (+) E C GDR. 5 (TYP) -13-4S3E (B) TYP. 2'-0' MEDIAN BARRIER L & GDR. 6 (TYP) - & GDR. 7 (TYP) L & CONST. MIDPOINT CORRIDOR & PGL -- 13-453F (B) TYP. 4-454 (T) TYP. - € GDR. 8 (TYP) € GDR. 9 (TYP)-- 13-453G (B) TYP. 5-454 (B) TYP. 4'8% 30-1 DIA. DRAINS 0:9'-41/16" (1) 8 SPACES . II'-87/8" 8 SPACES . II'-8% 8 SPACES . If -8% 8 SPA. @ 117% 10 93'-11" 93'-17/6" 93'H" 93'H* 374'+0%6° (553-5V @ 8°1

XI - 4'0%" X2 - 4'-7%"

UNIT D - SPANS 12 THRU 15



UNITS E THRU H - SPANS 16 THRU 31



KEY PLAN

REVISIONS NAME DATE DATE BY DESCRIPTION DATE BY DESCRIPTION DESCRIPTION DATE BY DESCRIPTION DATE BY DR. BY JBIII 4/93 CHK.BY REJ 2/94 SUPY. REJ 7/93

Greiner

Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE SUPERSTRUCTURE PLANS-SPANS 12 THRU 31

MOTES

I. FOR GENERAL NOTES, SEE SHEET CH & C-2.

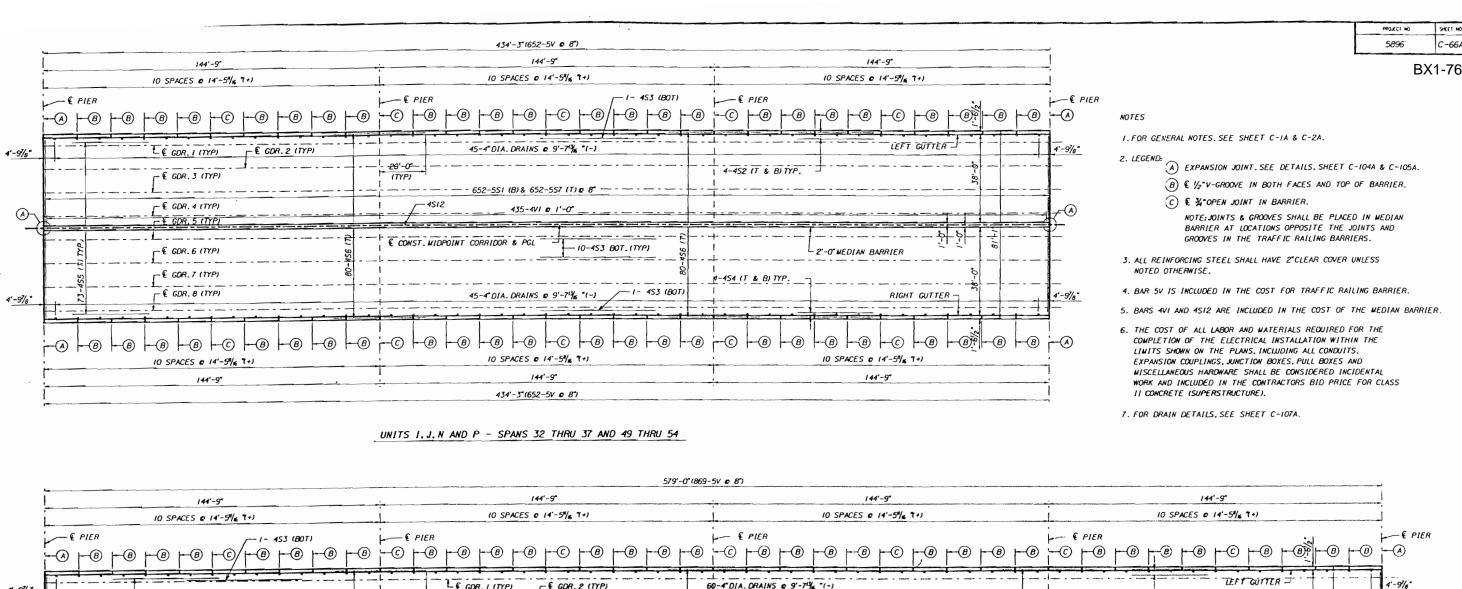
- 2. LEGEND:

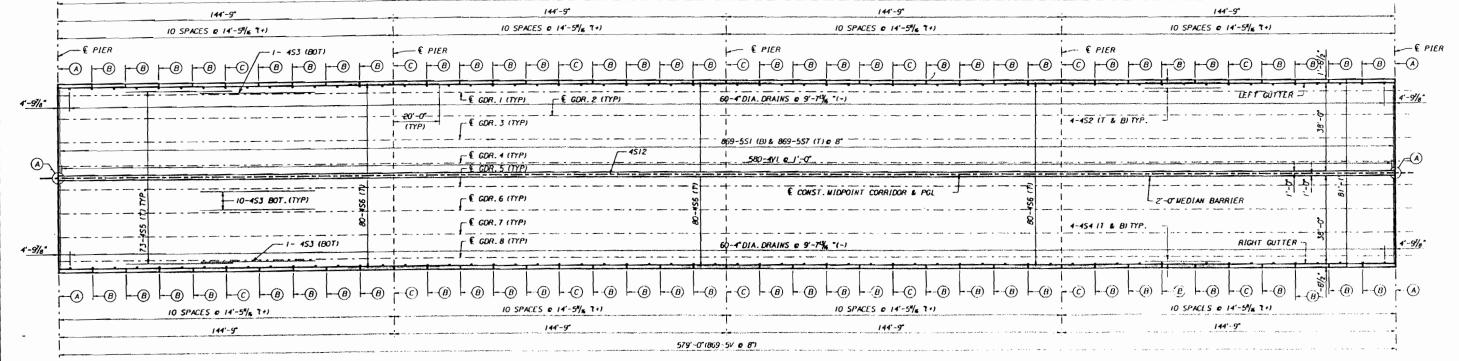
 (A) EXPANSION JOINT. SEE DETAILS, SHEET CHO1.
 - B t 1/2" V-GROOVE IN BOTH FACES AND TOP OF BARRIER.
 - C & %' OPEN JOINT IN BARRIER.

NOTE: JOINTS & GROOVES SHALL BE PLACED IN MEDIAN BARRIER AT LOCATIONS OPPOSITE THE JOINTS AND GROOVES IN THE TRAFFIC RAILING BARRIERS.

- 3. ALL REINFORCING STEEL SHALL HAVE 2' CLEAR COVER UNLESS NOTED OTHERWISE.
- 4. BAR 5V IS INCLUDED IN THE COST FOR TRAFFIC RAILING BARRIER.
- 5. BARS 4VI AND 4SIZ ARE INCLUDED IN THE COST OF THE MEDIAN BARRIER.
- 6. THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR THE COMPLETION OF THE ELECTRICAL INSTALLATION WITHIN THE LIMITS SHOWN ON THE PLANS, INCLUDING ALL CONDUITS, EXPANSION COUPLINGS, JUNCTION BOXES, PULL BOXES AND MISCELLANEOUS HARDWARE SHALL BE CONSIDERED INCIDENTAL WORK AND INCLUDED IN THE CONTRACTORS BID PRICE FOR CLASS II CONCRETE (SUPERSTRUCTURE).
- 7. TRANSVERSE 5SI BARS (RADIAL) SPACING IS MEASURED ALONG THE LEFT GUTTER UNE.
- 8. FOR DRAW DETAILS. SEE SHEET CHOT.

WORK THIS SHEET WITH SHEETS C-69 & C-70.





UNITS K AND M - SPANS 38 THRU 41 AND 45 THRU 48

UNA UNIT BUNIT CUNIT DUNIT E UNIT FUNIT G UNIT H UNIT I UNIT K UNIT L UNIT H UNIT P UNR UNS UNIT

AJDROOMAY 9L

WORK THIS SHEET WITH SHEETS C-TIA & C-TSA.

FINLEY MCNARY/JANSSEN SPAANS

Linley McNary Engineers, Inc. 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721

Junssen & Sprans Engineers, in 2875 Last 56th Street Indianupolis, Indiana 48220

/Janssen

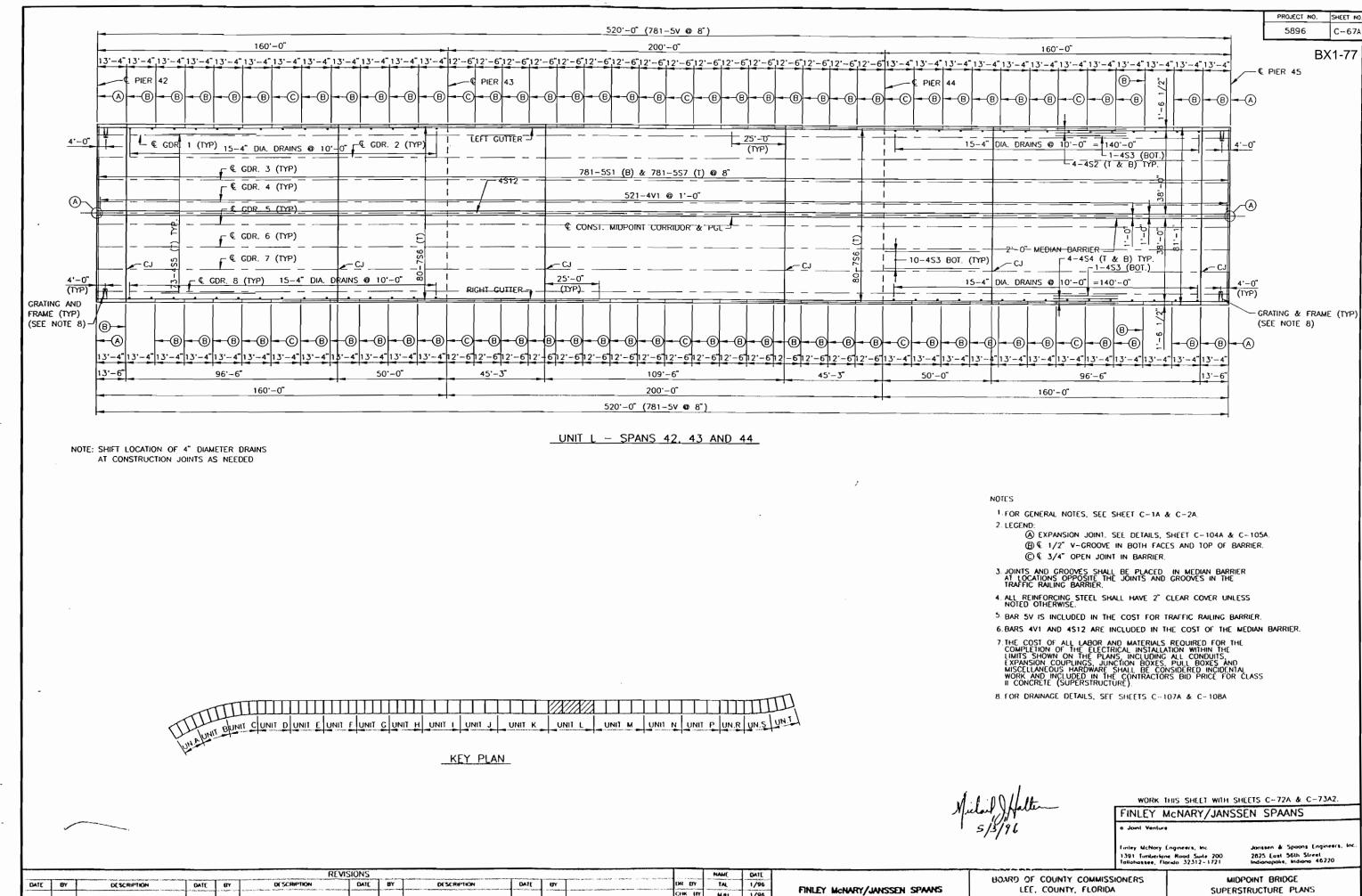
BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION MIDPOINT BRIDGE SUPERSTRUCTURE PLANS-SPANS 32 THRU 41 AND 45 THRU 54

REVISIONS

DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY

DR. BY J.L.S. 1/96
CHK. BY CWW. 1/96
SUPY. H.D.R. 1/96

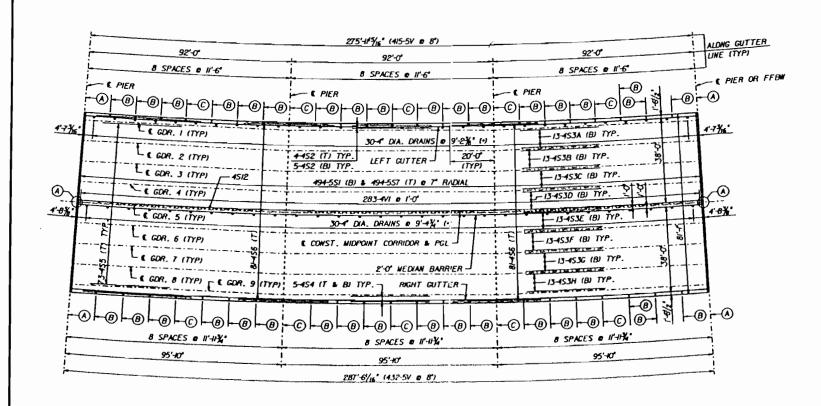
FINLEY MONARY/JANSSEN SPAANS



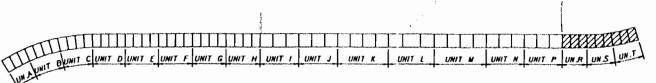
SUPERSTRUCTURE PLANS

DEPARTMENT OF TRANSPORTATION

UNIT R - SPANS 55 THRU 57



UNITS S AND T - SPANS 58 TIPU 63



KEY PLAN

REVISIONS DESCRIPTION DESCRIPTION DATE BY DESCRIPTION DESCRIPTION DATE DATE BY

NAME DATE Greiner JBIII 4/93 REJ 2/94

DR. BY

HK. BY

and Planners

LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION MIDPOINT BRIDGE

PROJECT NO.

5896

SHEET N

C-68

BX1-78

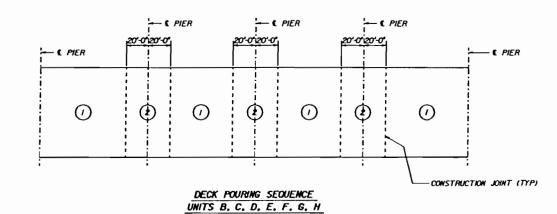
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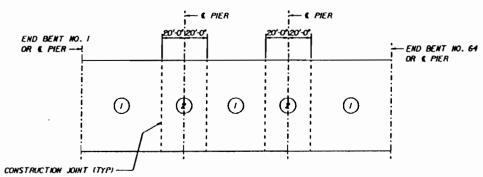
1. FOR GENERAL MOTES, SEE SHEET CH & C-2.

- 2. LEGENDA (A) EXPANSION JOINT. SEE DETAILS. SHEET C+04.
 - (B) & 1/2" V-GROOVE IN BOTH FACES AND TOP OF BARRIER.
 - © € ¾ OPEN JOINT IN BARRIER.

NOTE: JOINTS & GROOVES SHALL BE PLACED IN MEDIAN BARRIER AT LOCATIONS OPPOSITE THE JOINTS AND GROOVES IN THE TRAFFIC RAILING BARRIERS.

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- 7. TRANSVERSE 5SI BARS (RADIAL) SPACING IS WEASURED ALONG THE RIGHT GUTTER LINE.
- 8.452.454 AND 456 BARS IN THE CANTILEVERED SLABS SHALL BE PLACED PARALLEL TO THE SLAB FASCIAS.
- 9. FOR DRAIN DETAILS, SEE SHEET CHOT.





DECK POURING SEQUENCE UNITS A, R, S, T

POURING SEQUENCE NOTES

In POURS WITH THE SAME NUMERICAL DESIGNATION MAY DE POURED SIMULTANEOUSLY.

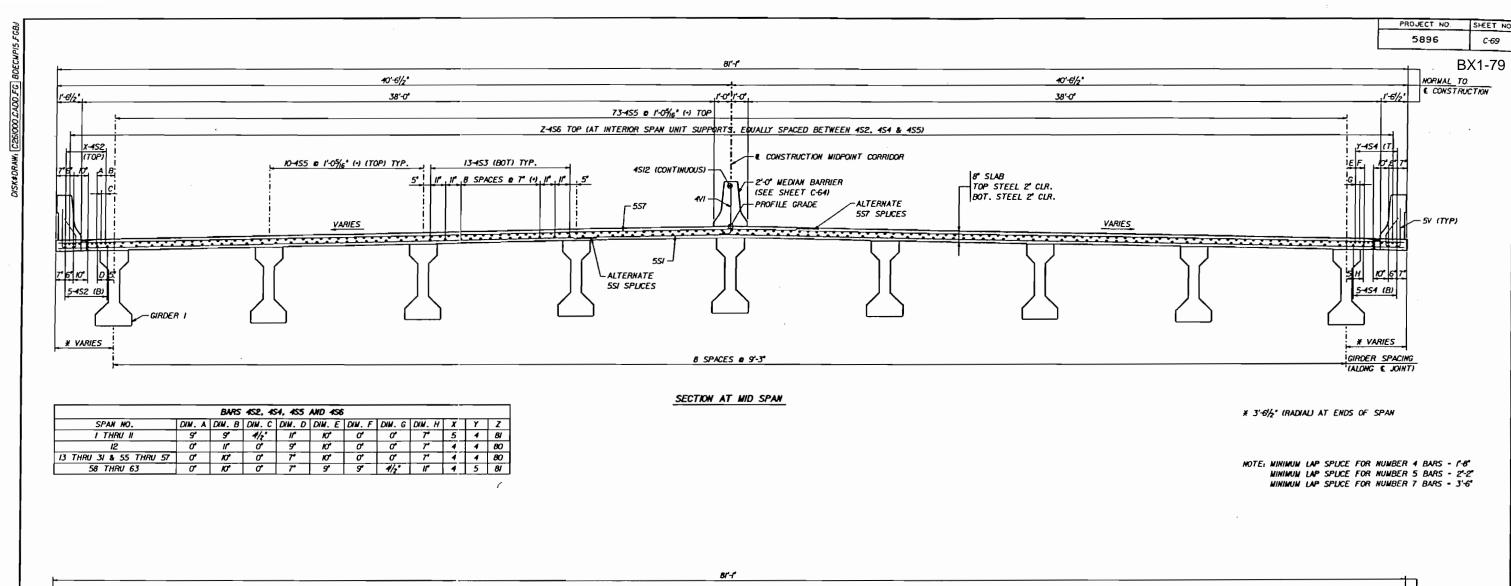
NO POUR SHALL BE MADE ADJACENT TO A PREVIOUS POUR THAT IS NOT A MINIMUM OF TE HOURS OLD.

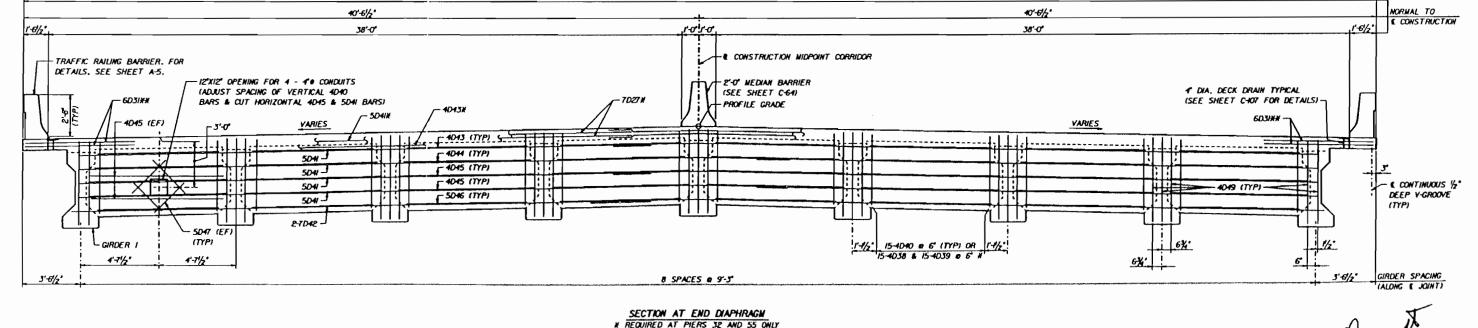
WORK THIS SHEET WITH SHEETS C 69 & C-70,

Engineers, Architects

BOARD OF COUNTY COMMISSIONERS

SUPERSTRUCTURE PLANS SPANS 55 THRU 63

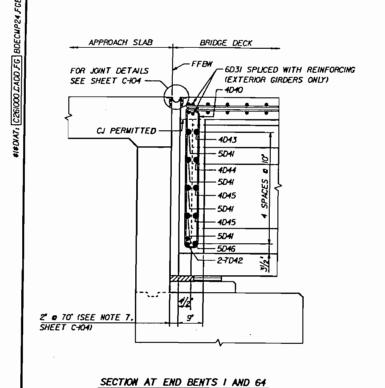


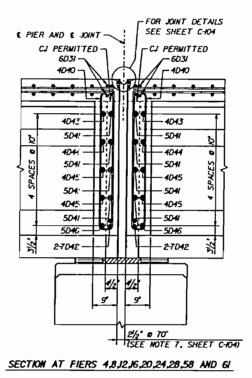


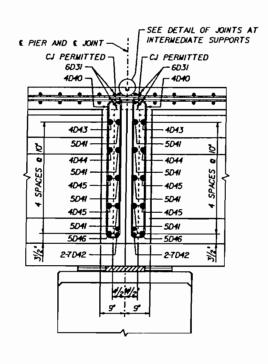
REVISIONS MIDPOINT BRIDGE Greiner BOARD OF COUNTY COMMISSIONERS DR.BY JBIII 5/93 CHK.BY REJ 7/94 SUPV. REJ 7/94 DESCRIPTION DATE BY DESCRIPTION DESCRIPTION DESCRIPTION Engineers. Architects DATE BY DATE BY SUPERSTRUCTURE SECTIONS LEE COUNTY, FLORIDA end Plemners SPANS I THRU 31 AND 55 THRU 63 DEPARTMENT OF TRANSPORTATION

WORK THIS SHEET WITH SHEETS C-64, C-65, C-68, C-70 & C-73.

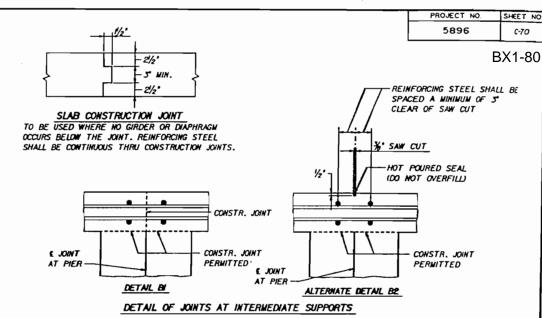
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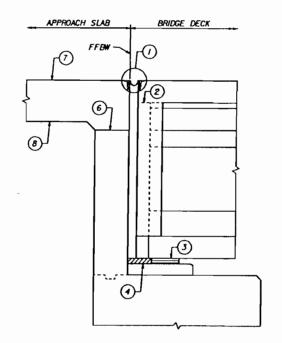
SECTION AT PIERS 2,3,5,6,7,9,10,11,13,14,15,17,18,19, 21,22,23,25,26,27,29,30,31,56,57,59,60,62 AND 63

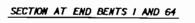


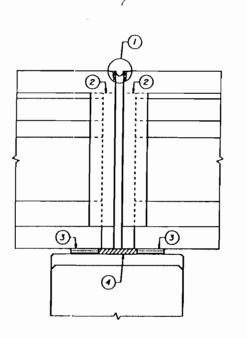
NOTE: DETAIL "BY" SHALL APPLY WHERE A PLACEMENT TERMINATES AT AN INTERNEDIATE SUPPORT. AT THE OPTION OF THE CONTRACTOR, ALTERNATE DETAIL "B2" MAY BE USED, WHEN SLAB PLACEMENTS ARE CONTINUOUS OVER INTERMEDIATE SUPPORTS. THE COST OF CONSTRUCTING ALTERNATE DETAIL 'B2' AT INTERMEDIATE SUPPORTS SHALL BE AT THE CONTRACTOR'S EXPENSE. ON

THAN THE DAY FOLLOWING CONCRETE PLACEMENT.

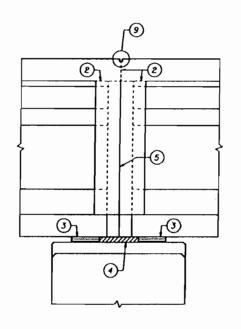
JOINTS WHERE SAW CUTS ARE MADE, THE SAW CUT SHALL BE MADE NO LATER



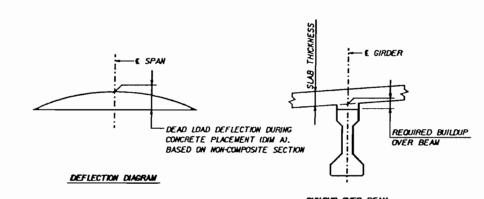


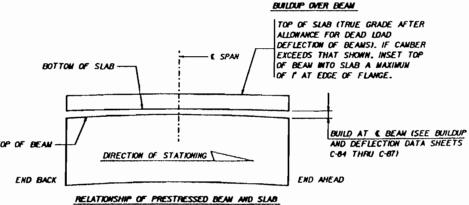


SECTION AT IMERS 4.8.12.16.20.24.28.58 AND 61



SECTION AT PIERS 2,3,5,6,7,9,10,11,13,14,15,17,18,19, 21,22,23,25,26,27,29,30,31,56,57,59,60,62 AND 63





DEFLECTION AND BUILDUP DETAILS

LIST OF STANDARD NOTATIONS

- DECK EXPANSION JOINTS AS REQUIRED. SEE SHEET CHOA.
- CONSTRUCTION JOINT PERMITTED.
- COMPOSITE NEOPRENE BEARING PAD.
- PREMOUILDED EXPANSION JOINT MATERIAL.

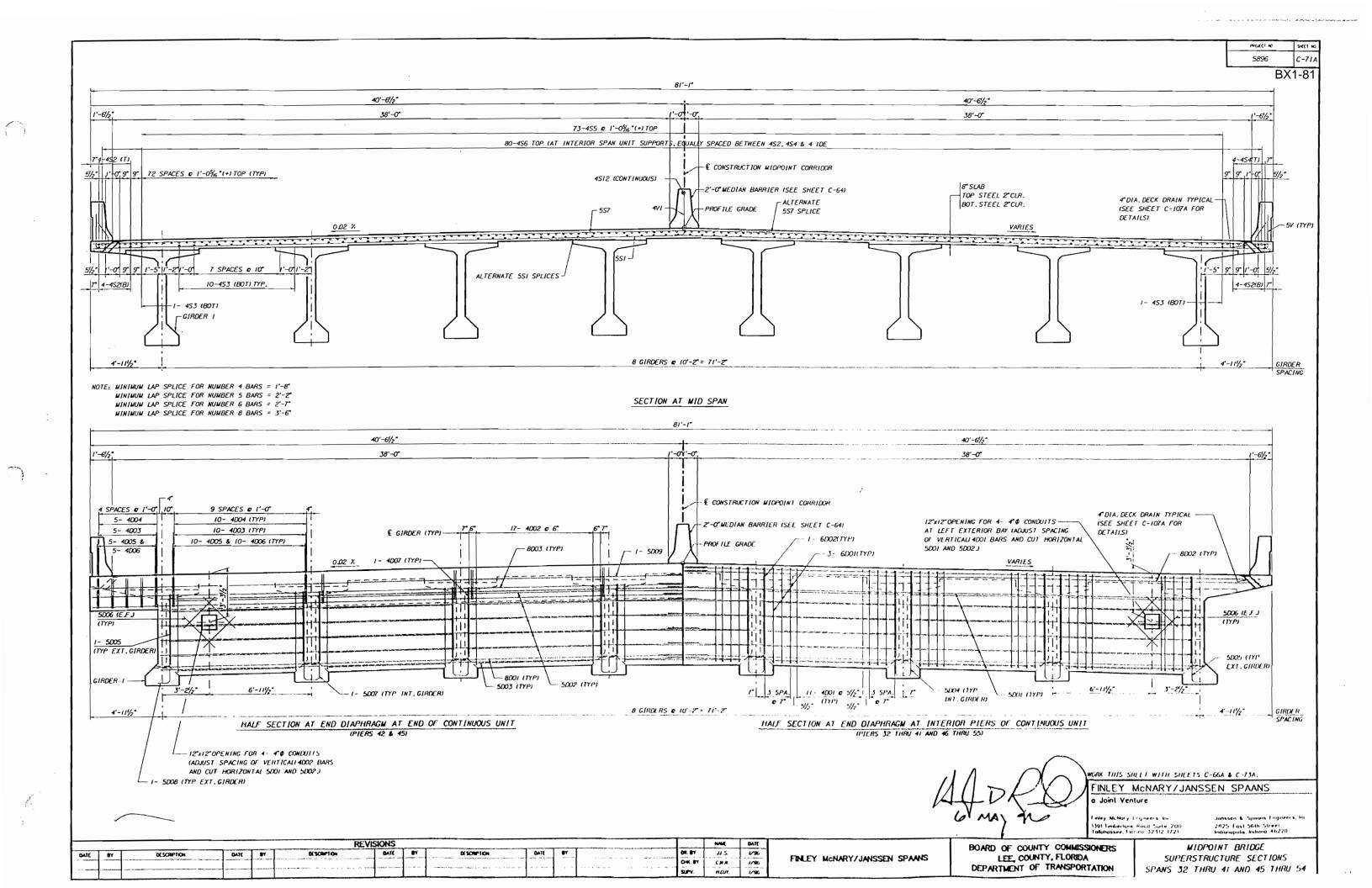
ONE LAYER 55° SMOOTH ROOFING PAPER.

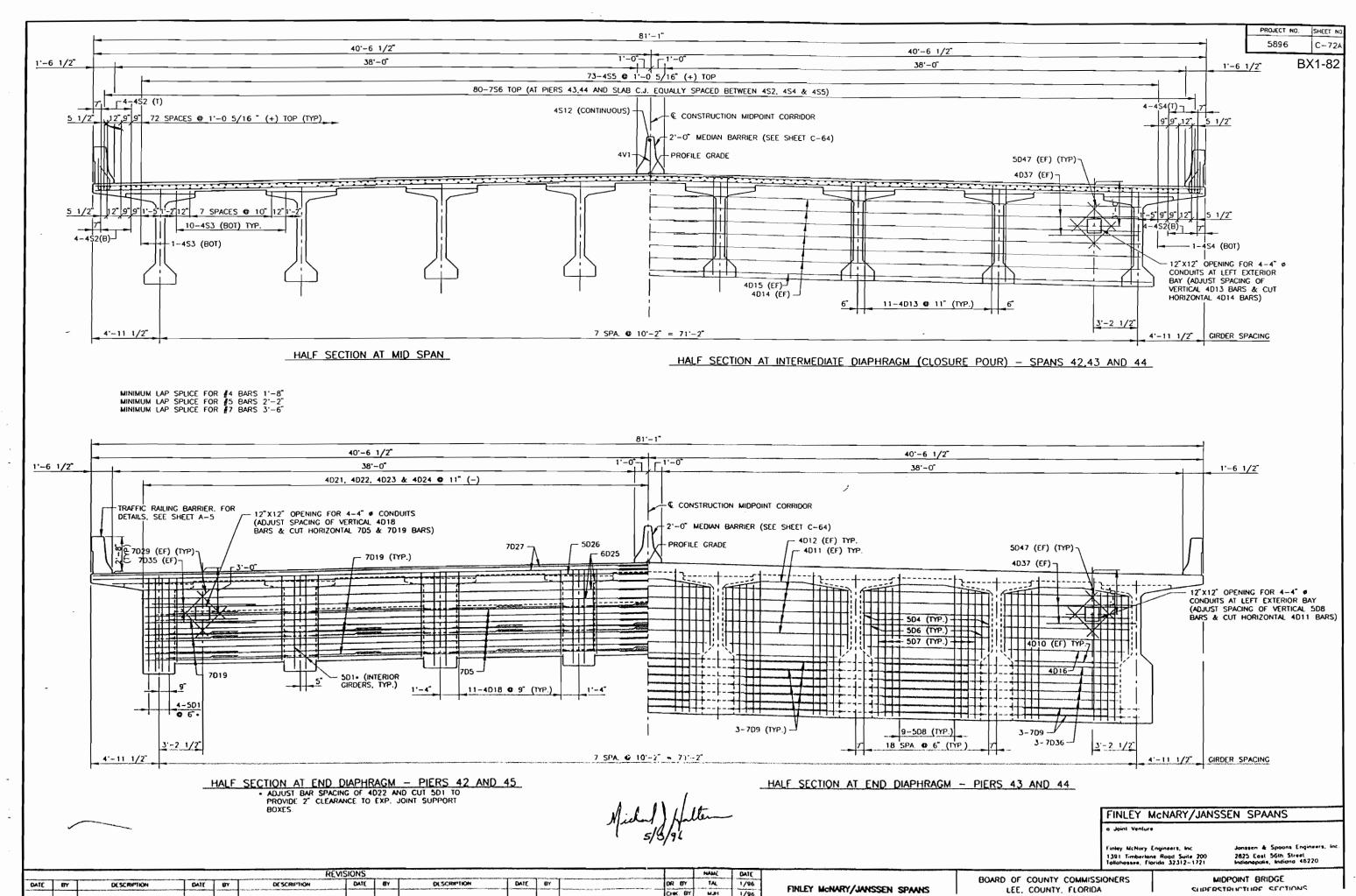
- TWO LAYERS 55° SMOOTH ROOFING PAPER.
- SEE "SURPACE TREATMENT NOTE" ON APPROACH SLAB DRAWINGS.
- APPROACH SLAB.
- SEE DETAIL OF JOINTS AT INTERMEDIATE SUPPORTS.

NOTE: FOR SUPERSTRUCTURE QUANTITIES SEE SHEET C-74A

WORK THIS SHEET WITH C-64, C-65, C-68 & C-69.

Ę	DATE BY	DESCRIPTION	0475 89	The state of the s	ISIONS	manufaturation , accompany of the second	PERSONAL PROPERTY OF THE PROPE	-			NAME		Cooks		BOARD OF COUNTY COMMISSIONERS	MIDPOINT BRIDGE
ä	DAIL 01	DESCRIPTION	DAIL BY	DESCRIPTION	DATE	BY DESCR	PTION DAT	BY	DESCRIP		JOIII		Greiner	Engineers, Architects	LEE COUNTY, FLORIDA	MISCELLANEOUS SUPERSTRUCTURE DETAILS
Ĕ										CHK. E		7/94	******	and Planners	DEPARTMENT OF TRANSPORTATION	SPANS I THRU 31 AND 55 THRU 63

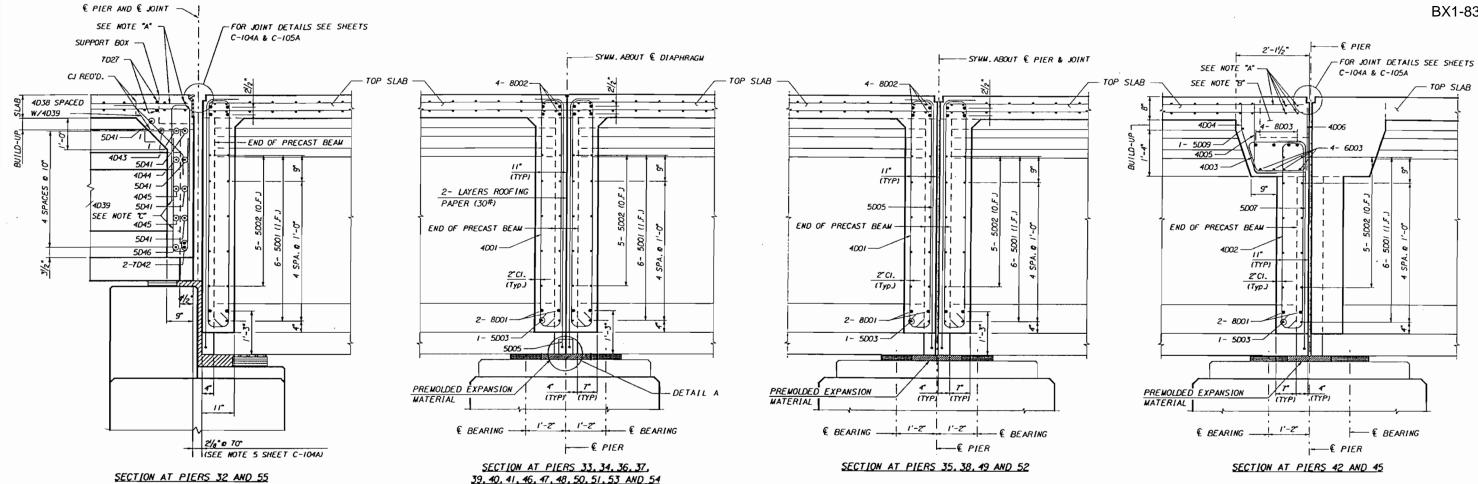


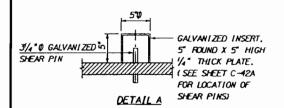


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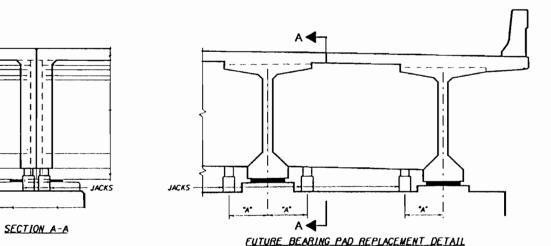
PROJECT NO 5896 C-73A

BX1-83





- MOTE "A": EXTEND TOP AND BOTTOM SLAB REINFORCING BETWEEN EXPANSION JOINT SUPPORT BOXES AND ANCHORAGE ASSEMBLIES. FIELD CUT SLAB REINFORCING AS REQUIRED TO PROVIDE Z'CLEARANCE FROM SUPPORT BOXES OR ANCHORAGE ASSEMBLIES.
- NOTE "B": POUR TOP HALF OF DIAPHRAGM (FINAL DECK POUR) AFTER ALL BEAM POST-TENSIONING IS COMPLETED.
- NOTE "C": ADJUST SPLICE LENGTH TO PROVIDE 2"CLEARANCE FROM SUPPORT BOXES OR ANCHORAGE ASSEMBLIES.



NOTES FOR FUTURE BEARING PAD REPLACEMENT

- I. WHEN REPLACING ANY OR ALL OF THE BEARING PADS, ALL GIRDERS MUST BE LIFTED SIMULTANEOUSLY.
- 2. AT ALL PIERS JACKS SHALL BE PLACED ALONG THE & OF THE DIAPHRAGM AND ADJCENT TO ALL GIRDERS.
- 3. AT END BENTS I AND 64. JACKS SHALL BE PLACED UNDER GIRDERS 1.4.6 AND 9 IN FRONT OF THE PEDESTALS AT 12"FROW EDGE AND ALONG THE & OF THE DIAPHRAGM ADJACENT TO GIRDERS 2,3,5,7 AND 8.
- 4. JACKS SHALL BE CONNECTED THROUGH A MANIFOLD TO PERMIT INDIVIDUAL ADJUSTMENT OF JACK PRESSURES TO PROVIDE EQUAL STROKE IN ALL
- JACKS. JACKING SHALL BE LIMITED TO A 1/4" MAXIMUM LIFT. 5. PROPERLY SIZED SHIM PLATES SHALL BE PROVIDED TO LIMIT ULTIMATE LOAD BEARING STRESS ON CONCRETE ACCORDING TO ARTICLE 8.163
- OF AASHTO STANDARD SPECIFICATIONS. 6. MAXIMUM ANTICIPATED JACK REACTIONS ARE SERVICE LEVEL LOADS.
- 7. JACKS SHALL BE EQUIPPED WITH A LOCKING RING WHICH WILL PREVENT MOVEMENT IN THE EVENT THAT HYDRAULIC PRESSURE IS LOST. ALSO, JACKS SHALL BE LOCKED OFF PRIOR TO REMOVAL OF AMY BEARING PAD.
- 8. THE JACKING EQUIPMENT IS NOT PART OF THE CONTRACT AND DOES NOT NEED TO BE PROVIDED BY THE CONTRACTOR.
- 9. BRIDGE DECK AND DIAPHRAGM MUST BE IN PLACE BEFORE JACKING.
- 10. SEE DETAIL AND TABLE FOR JACK LOCATIONS AND MAXIMUM ANTICIPATED JACK REACTIONS.
- II. DURING PAD REPLACEMENT, TRAFFIC SHALL BE LIMITED TO THE INTERIOR BAYS.

END BENT OR PIER	GIRDER	DISTANCE "A" (MAX MUM)	ANTICIPATED JACKING REACTION (MAX., SERVICE LOADS)
	2.3.5.7 AND B	2'-0"×	85 KIPS
I AND 64	1,4,6 AND 9	σ	ITO KIPS
2 THRU 32 (BK)	2 THRU 8	z x	85 KIPS
AND 55 (AH) THRU 63	I AND 9	2'-0"	IOO KIPS
32 (AH) THRU 42 (BK)	2 THRU 7	2'-5"X	IOB KIPS
AND 45 (AH) THRU 55 (BK)	I AND 8	2'-6"	280 KIPS

K PLACE JACKS AT BOTH SIDES OF GIRDERS

FINLEY MCNARY/JANSSEN SPAANS

inley McNary Engineers, Inc 1391 Timbertone Road Suite 200 Tallohausee, Florido 32312 1/21

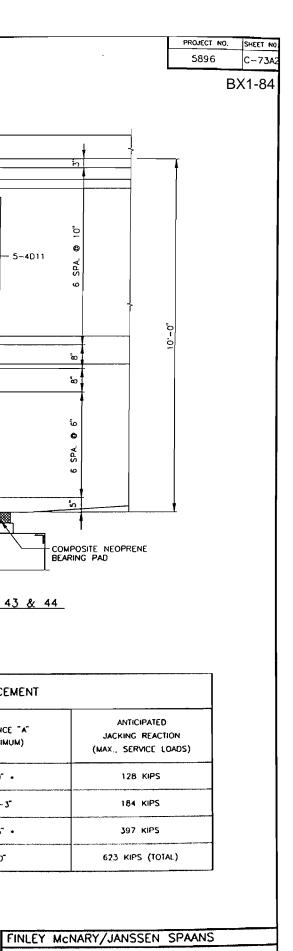
lanssen & Spaons Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

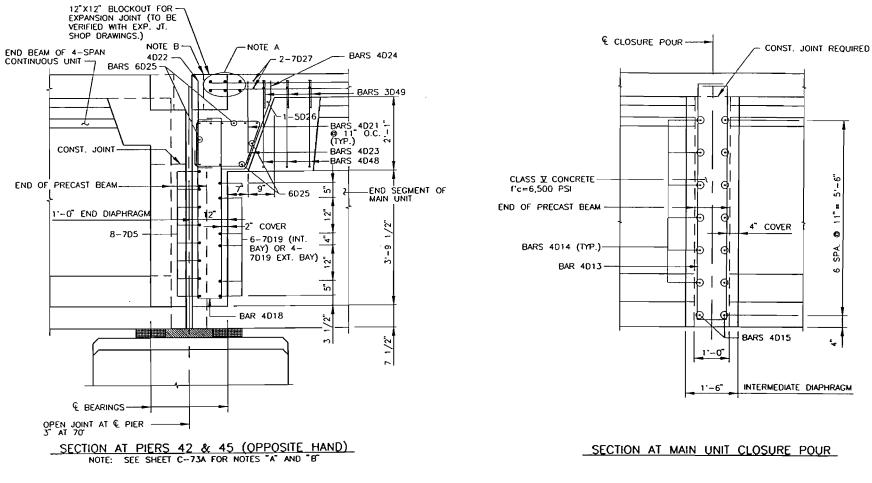
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DATE	87	OCSCRPTION	DATE	87	OCSCRIPTION	DATE	87	DESCRIPTION	DATE	84		OR. 8Y	211	1/36	
					to the section of the	.,						OR. 81	CWN.	3/36	
			April State (March 1994)		- manner canno archivementamente me conservir que incompres partir de la partir dela partir de la partir de la partir de la partir de la partir dela partir de la partir de la partir de la partir de la partir dela partir de la partir dela			The same of the sa		4-20-0440	the productive beautiful to an experience of the control of the co	SUPV.	HDA.	1/96	

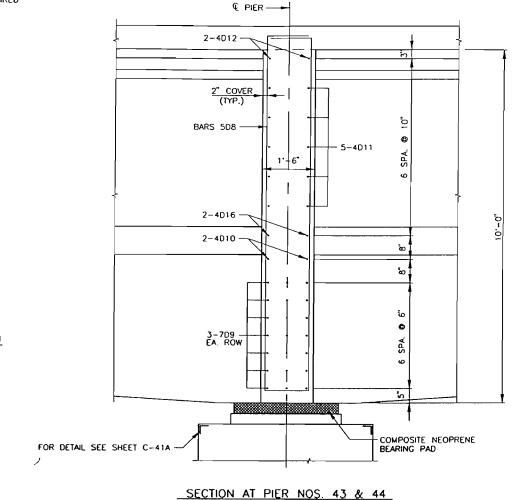
FINLEY MONARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE WISCELLANEOUS SUPERSTRUCTURE DETAILS! SPANS 32 -41 AND 45 - 54







OPEN JOINT AT © PIER

BARS 3D49

BAR 3D49

BAR 3D49

BAR 3D49

BAR 4D48

SECTION 1-1

END OF PRECAST BEAM

END OF PRECAST BEAM

END OF PRECAST BEAM

A 1/2

END OF PRECAST

FUTURE BEARING PAD REPLACEMENT ANTICIPATED END BENT DISTANCE "A" GIRDER JACKING REACTION OR PIER (MAXIMUM) (MAX., SERVICE LOADS) 42 (AH) 2 THRU 7 2'-0" • 128 KIPS AND 45 (BK) 1 AND 8 2.-3. 184 KIPS 2 THRU 7 2'-5" • 397 KIPS 43 AND 44 623 KIPS (TOTAL) 1 AND 8

. PLACE JACKS AT BOTH SIDES OF GIRDERS

NOTE: SEE SHEET 73A FOR NOTES AND CROSS-SECTION

SECTION	ΑТ	DIEBS	12	2,	45	(OPPOSITE	HAND)	
>+(11()N	ΑI	PIFKS	4/	OK.	4.)	TOPPOSITE	TIMINU/	

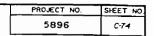
ITE HAND)				Finley McNory	Engineers, Inc ne Road Suite 200	Janssen & Spaans Engine 2825 East 56th Street	
				Tallahousee, fi	orida 32317-1721	Indianapolis, Indiana 4627	,
PEVISIONS	NAME	DATE	<u> </u>	*			

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FINLEY MCNARY/JANSSEN SPAANS

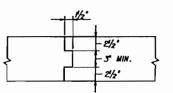
BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA MIDPOINT BRIDGE

SUPERSTRUCTURE DETAILS



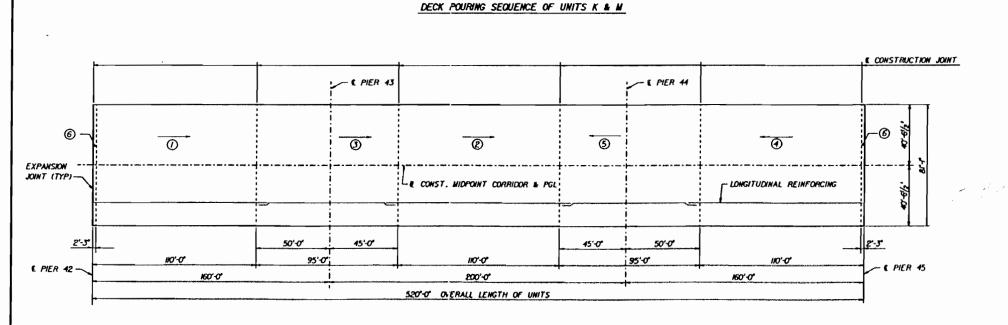
MOTES

- 5. THE CONTRACTOR WAY REVISE THE POURING SEQUENCE PROVIDED A NEW STRUCTURAL ARE CALCULATED AND THESE CALCULATIONS, ALONG WIN DRAWINGS SHOWING THE
- 6. SEE ERECTION SEQUENCE, SHEET C-98 FOR ADDITIONAL POURING SEQUENCE REQUIREMENTS.



SLAB CONSTRUCTION JOINT REINFORCING STEEL SHALL BE CONTINUOUS THRU CONSTRUCTION JOINTS.

- I. CIRCLE NUMBERS INDICATE POURING SEQUENCE.
- 2. THE CONTRACTOR SHALL ADJUST THE SET-TIME OF THE CONCRETE MIX WITH RETARDANTS AS NECESSARY TO ASSURE COMPLETE PLACEMENT OF ALL DECK CONCRETE BETWEEN CONSTRUCTION JOINTS BEFORE INITIAL SET BEGINS IN THE PLASTIC CONCRETE.
- 3. NO UNIT SHALL BE PLACED ADJACENT TO A PREVLOUSLY PLACED UNIT THAT IS NOT A MINIMUM OF 72 HOURS OLD.
- 4. UNITS WITH IDENTICAL LABLES MAY BE PLACED INDIVIDUALLY OR SIMULTANEOUSLY.
- ANALYSIS IS PERFORMED BY THE CONTRACTOR'S ENGINEER AND NEW CAMBER DIAGRAMS REVISED SEQUENCE. ARE SUBMITTED TO AND APPROVED BY THE ENGINEER.
- 7. BRIDGE DECK SHALL BE SCREEDED ALONG THE FULL DECK WIDTH (BI'-T) FACIA TO FACIA ON ALL POURS. LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED.



DECK POURING SEQUENCE OF MAIN SPAN UNIT L

ž						REVI	SIONS							NAME	DATE	_
Ę	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	87	DESCRIPTION	DR. BY	SG	7/94	G
Ĭ,													CHK. BY	MCM	7/94	
-				I	I								SUPV.	REJ	7/94	1

· ③

144'-9"

434'-3" OVERALL LENGTH OF UNITS

DECK POURING SEQUENCE OF UNITS I, J, N, P

3

76'-9'

•

40'-0"

~ (PIEI

(3)

68'-0"

30'-0°

LONGITUDINAL REINFORCING

144'-5'

0

LONGITUDINAL REINFORCING

114'-9"

EXPANSION

JOINT (TYP)-

€ PIER

(B)

2'-3'

EXPANSION

JOINT (TYP)-

C PIER

⑤

40'-0"

0

30°-0°

60'-0°

579'-0' OVERALL LENGTH OF UNITS

70'-0**'**

PIER



2

- & CONST. MIDPOINT CORRIDOR & PGL

114'-9'

€ CONSTRUCTION JOINT

€ PIER

<u>@</u>

-€ CONST. MIDPOINT CORRIDOR & PGL

114'-9"

€ PIER

6

38'-O'

68'-0'i

30'-0°

144'-9"

76'-9°

Engineers. Architects and Planners

E CONSTRUCTION JOINT

- € PIER

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE MISCELLLANEOUS SUPERSTRUCTURE DETAIL SPANS 32 THRU 54 (2)

PROJECT NO.	SHEET NO.
5896	C-74A

							ESTIM	IATED QUANTIT	TIES								
ITEM	,	UNIT		UNIT "A"			UNIT	r <i>181</i>			UNI	T &	_		UNIT		
		OM17	SPAN I	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	SPAN 7	SPAN 8	SPAN 9	SPAN 10	SPAN II	SPAN 12	SPAN 13	. SPAN H	SPAN 15
	SLAB		188 .04	188.04	188.04	188.04	188 .04	188 .04	188.04	188.04	188 .D4	188.04	188.04	188.04	188 .04	188.04	188.04
CLASS II CONCRETE	HAUNCH"	CU. YD.	7.83	7.83	7.83	7.83	7.83	7.83	7.83	7.83	7.83	7.83	6.56	6.56	5.62	5.39	5.37
(SUPERSTRUCTURE)	DIAPHRAGMS		16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	<i>1</i> 6. 3 9	16.39	16.39	16.39	16.39	16.39	16.39
	TOTAL		212.26	212,26	212.26 ·	212.26	212.26	212.26	212.26	2/2.26	212.26	212,26	2/0.99	211.09	210.05	209.82	209.80
PRESTRESSED CONCRETE GIRD	ERS (TYPE IV)	UN. FT.	837 .17	838.57	837 73	837.73	838.67	838.67	837.73	837.73	838.67	838.57	837.73	837 79	838.78	838.78	837.75
REINFORCING STEEL (SUPERSTI	S STEEL (SUPERSTRUCTURE) LBS. 138,937 186,126 186,126											183.332					

								ESTIMATED	QUANTITIES									
ITE	<i>u</i>	UNIT		UNT	*E*			UNI	T **			UNI	T '6'			UNIT	<i>ት</i>	
n e		OM1	SPAN 16	SPAN IT	SPAN 18	SPAN 19	SPAN BO	SPAN 21	SPAN 22	SPAN 23	SPAN 24	SPAN 25	SPAN 26	SPAN 27	SPAN 28	SPAN 29	SPAN 30	SPAN 31
	SLAB		188.04	188.04	188.04	188 .04	188 .04	188 .04	188 .04	188.04	188 .04	188.04	188.04	188 .04	188 .04	188.04	188.04	190.56
CLASS II CONCRETE	HAUNCH	CU. YD.	6.53	5.57	5 <i>6</i> 7	5.67	5.67	5.67	5.67	5.67	5.67	5 <i>.</i> 67	5.67	5.67	6.48	6.62	6.62	6.62
(SUPERSTRUCTURE)	DIAPHRAGNS	co. 10.	16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	16.39	6.39	16.39	H.64
	TOTAL		210.96	210.10	210.10	210.10	210.10	210.10	210.10	210.10	20.10	210.10	210.10	210.10	210.91	211.05	211.05	211.82
PRESTRESSED CONCRETE GIRL	DERS (TYPE IV)	UN. FT.	837.75	838.78	838.78	837.75	837.75	838.78	838.78	837.75	837.75	838.78	838.78	837.75	837.75	838.78	838.78	837 D
REINFORCING STEEL ISUPERST	RUCTURE)	LBS.		18.3	043			183	.O43			183.	.043			184.	<i>D</i> 69	

				ES	ATED QUANTI	TIES					
<i>ITE</i>	•	UNIT		UNIT "R"			UNIT "S"			UNIT "T"	
		OH!!	SPAN 55	SPAN 56	SPAN 57	SPAN 58	SPAN 59	SPAN 60	SPAN GI	SPAN 62	SPAN 63
	SLAB		190.56	188 .04	188.04	188.04	188.04	188.04	188 .04	188.04	188 .04
CLASS II CONCRETE	HAUNCH	cu. rp.	6.53	6.25	7.30	7.43	7.83	7.83	7.83	7.71	7.83
(SUPERSTRUCTURE)	DIAPHRAGIIS		14.64	16.39	16.3 9	16.39	16.39	16.39	16.39	16.39	16.39
	TOTAL		211.73	2/0.68	211.73	211.86	212.26	212.26	212.26	212.14	212.26
PRESTRESSED CONCRETE GIR	DERS (TYPE IV)	UN. FT.	837.D	838.78	837.81	837.73	838.67	837.73	837.73	838.67	837 J7
REINFORCING STEEL (SUPERS)	RUCTURE)	LBS.		139,055			139,098			139,098	

SPANS I THRU 31 AND 55 THRU 63

								ESTIMATE	D QUANTITIES										
	-u	UNIT		UNT 🏲			UNIT "S"			UWN	<u> </u>		1	UNIT "L"			UMT	r 'Y	
		UNIT	SPAN 32	SPAN 33	SPAN 34	SPAN 35	SPAN 36	SPAN 37	SPAN 38	SPAN 39	SPAN 40	SPAII 4I	SPAN 42	SPAN 43	SPAN 44	SPAN 45	SPAN 46	SPAN 47	SPAN 48
	SLAB		302.52	292.22	302.52	302.52	292.22	302.52	302.52	292.LL	292.22	302.52	333.38	404.02	333.38	302.52	292.22	292.22	302.52
CLASS II CONCRETE	HAUNCH	1 [32 <i>5</i> 7	3/ £5	24.45	24.45	24.45	24.45	24.45	24.45	22.62	20.86	33.75	44.82	32.38	20.86	21.85	24.45	24.45
. (SUPERSTRUCTURE)	DIAPHRAGMS	cu. ro.	9.88	-	9.88	9.88	-	9.88	9.88	-	-	9.88	25.64	31.50	25.64	9.88		-	9.88
	TOTAL	1 1	345.27	323 BT	336.85	336.85	3/6.67	336.85	336.85	316.67	314.84	333.26	392 37	480.34	39/.40	J3J 26	344.07	3/6.67	336.85
CLASS V CONCRETE ISUPERSTRUCTUR	E) CLOSURE POUR/DIAPHRAGIIS	1 [12.B5	ಚೂ	12.85	12.85	25.69	12.85	12.85	25.69	25.69	12.85	24.52	49.24	24.62	12.B5	25.69	25.69	12.85
PRESTRESSED CONCRETE GIRDERS IS	PECIAL	UN. FT.	1294.88	1295.06	1295.06	1295.25	1295.06	1295.06	1295.06	1295.25	1295.06	1294.88	-	-	-	1294.88	1295.06	1295.25	1295.06
RESTRESSED CONCRETE GIRDERS (SI	PECIAL-SEGMENTAL)	UN. FT.	-	-	-	•	•	-	-		-			4637.06		-	•	-	-
REINFORCING STEEL (SUPERSTRUCTURE	DRCING STEEL (SUPERSTRUCTURE)		· · · · · · · · · · · · · · · · · · ·	186848	UPERSTRUCTURE) LBS. N6848			186848 248535			27930 246535								

ESTIMATED QUANTITIES									
ITEM		UNIT		יאר דואט		·	UNIT TO		
		UMI	SPAN 49 SPAN 50			SPAN 52	SPAN 53	SPAN 54	
	SLAB		302.52	292.22	302.52	302.52	292.22	302.52	
CLASS II CONCRETE	HAUNCH]	24.45	24.45	24.45	24.45	32,33	37.69	
(SUPERSTRUCTURE)	DIAPHRAGMS	CV. YD.	9.88	-	9.88	9.88	_	9.88	
	TOTAL	1	336.85	3/6.67	336.85	336.85	324.55	350.09	
CLASS V CONCRETE (SUPERSTRUCTURE)	CLOSURE POURS/DIAPHRAGNS	1	12.85	25.69	12.85	12.85	മേമ	12.85	
PRESTRESSED CONCRETE GIRDERS (SPE	UN. FT.	1295.06	1295.06	1295.25	1295.06	1295.06	1294.88		
REINFORCING STEEL (SUPERSTRUCTURE)	LBS.		W6848	A COLUMN TO THE PARTY OF THE PA		186848	A		

SPANS 32 THRU 54

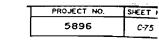
WORK THIS SHEET WITH SHEETS C-64 THRU C-74

	REVISIONS															
- 6						KE VI	SIONS	Charles and a second					1 . 1	NAME	DATE	1
띪	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DR. BY	JBIII	5/93	П
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٦,	D10550									The state of the s	SUPY.	REJ	11/93	Ť		
PLOTTED. 27 JANAS-09-50-30																



Engineers, Architects and Planners BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE SUPERSTRUCTURE ESTIMATED QUANTITIES



Q CONSTRUCTION MIDPOINT CORRIDOR &
PROFILE GRADE LINE -UNIT E

KEY PLAN

& SHIP CHANNEL -

DIRECTION OF STATIONING DIRECTION OF STATIONING C PIER 3--! C PIER 4 **& CONSTRUCTION** FFBW END BENT I € PIER --GIRDER 1 E GIRDER I € GIRDER I MIDPOINT CORRIDOR & E GIRDER I JO BK & GIRDER 2 8 AH PROFILE GRADE LINE -€ GIRDER 2 € GIRDER 2 - C PIER € GIRDER 3 <u>€ GIRDER</u> 3 E GIRDER 3 E GIRDER 3 E GIRDER 2 E GIRDER I € GIRDER 4 £ GIRDER 4 E GIRDER 4 --- C PIER E GIRDER 3 E GIRDER 2 E GIRDER 4 E GIRDER 4 € GIRDER 5 € GIRDER 5 E GIRDER 5 E GIRDER 3 € GIRDER 5 C GIRDER I € GIRDER 6 E GIRDER 6 € GIRDER 6 C GIRDER 5 E GIRDER 2 € GIRDER 6 E GIRDER 4 - € PIER € GIRDER 7 € GIRDER 7 & GIRDER 7 E GIRDER 6 E GIRDER 3 € GIRDER 7 E GIRDER 5 € GIRDER 8 € GIRDER 8 E GIRDER 7 E GIRDER 8 E GIRDER 4 E GIRDER 8 E GIRDER 6 E GIRDER 8 € GIRDER 9 € GIRDER 9 & CONSTRUCTION C GIRDER 7 E GIRDER ! € GIRDER 9 E GIRDER 9 MIDPOINT CORRIDOR & E GIRDER 9 E GIRDER 8 E GIRDER 6 PROFILE GRADE UNE LENGTH "A" (TYP) LENGTH "A" (TYP) E GIRDER T E GIRDER 9 C GIRDER 8 90° 00° 00° TC SPAN 3 SPAN Z SPAN 1 FRAMING PLAN - UNIT A UNIT A - SPANS I THRU 3 FRAMING PLAN - UNIT B OR C UNIT B - SPANS 4 THRU 7 UNIT C - SPANS 8 THRU II - 90" 00' 00" TC

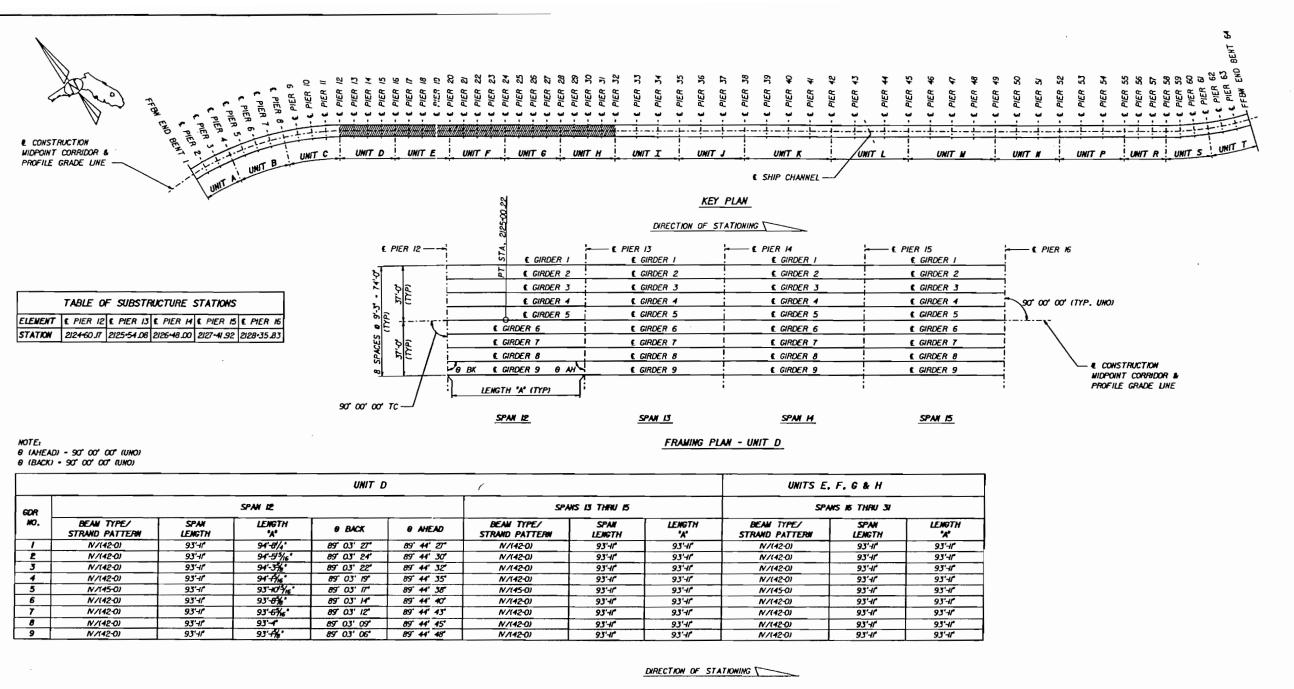
MOTE: 8 (AHEAD) - 90' 00' 00' (UNO) 6 (BACK) - 90' 00' 00' (UNO)

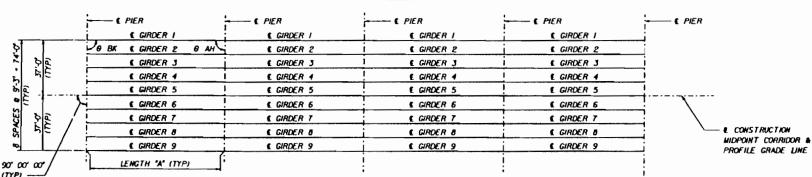
			U	VIT A				U	NITS B&C		
60	, T		SPANS	1, 2, ± 3				SF	ANS 4 THRU II		
·	`` ⊢	BEAN TYPE/ STRAND PATTERN	SPAN LENGTH	LENGTH "A"	e BACK	0 AHEAD	BEAN TYPE/ STRAND PATTERN	SPAN LENGTH	LENGTH "X"	# BACK	O AHEAD
1	,	N/(43-0)	93'-11'	95'-8"/ _K '	88' 35' 29'	88' 35' 29'	N/(43-0)	93'-11"	95'-8"/ ₁₆ "	88" 35" 29"	88' 35' 29'
2	2	N/(43-0)	93'-11'	95'-3/4"	88" 35" 29"	88 35' 29'	N/143-01	93'-11"	95'-3'/4"	88 35' 29'	88 35' 29'
3	,	N/(43-0)	93'41'	94'-51/16"	88" 35" 29"	88" 35" 29"	N/143-01	95'-11'	94-9/16'	88' 35' 29'	88' 35' 29'
4	•	N/(43-0)	93'-IF	94'-4/16"	88" 35" 29"	88" 35' 29"	N/(43-0)	93'-11"	94-4/16	88' 35' 29'	88' 35' 29'
5	5	N/(45-0)	93'-I <i>l</i> "	93'-10%"	88' 35' 29'	88' 35' 29'	N/(45-0)	92.41.	93'-10//8"	88' 35' 29'	BB 35' 29'
6	5	N/(42-0)	93'-I <i>f</i>	93'-5//6"	88' 35' 29'	88' 35' 29'	N/(42-0)	93'-11"	93'-5//6"	88' 35' 29'	88" 35' 29"
7	,	N/(42-0)	93'-11'	93'-0'	88' 35' 29'	88" 35" 29"	N/142-0)	93'-11"	93'-0'	88' 35' 29'	88" 35" 29"
8	,	N/142-0)	93'-11"	92'-6/2'	88' 35' 29'	88' 35' 29'	N/(42-0)	93'-11"	92'-6/2'	88' 35' 29'	88" 35' 29"
9	,	N/(36-0)	93'41'	92 4/16	88 35 29	88' 35' 29'	N/136-0)	93'-II"	92.4/16"	88' 35' 29'	88 35 25

	TABLE OF SUBSTRUCTURE STATIONS											
ELEMENT	FFBM END BENT I	C PIER E	€ PIER 3	C PIER 4	C PIER 5	C PIER 6	& PIER 7	C PIER 8	C PIER 9	E PIER IO	€ PIER II	C PIER IZ
STATION	211 4-27 .08	2115-21.00	21644.92	207-08-83	2118-02 J 5	2118-96.67	219-9C .58	2120-84.50	2121-78.42	2122-72.33	<u>ଅଥාණ</u> ය	2124-60 57

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<u> </u>	DATE	BY	DESCRIPTION	0/	TE	BY	DESCRIPTION	DATI	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DR. BY	MOO	4/93	Greiner	Engineers. Architects	LEE COUNTY, FLORIDA	MIDPOINT BRIDGE
9[I				T			1	Ci	HK.BY	REJ	8/93		and Planners	DEPARTMENT OF TRANSPORTATION	FRAMING PLAN (I)
£ [SUPV.	REJ	7/91	The Auto		DEPARTMENT OF TRANSPORTATION	





FRAMING PLAN - UNIT E, F, G OR H UNIT E - SPANS IS THRU IS

UNIT F - SPANS 80 THRU 23 UNIT G - SPANS 24 THRU ZT

UNIT H - SPANS 28 THRU 31

	TABLE OF SUBSTRUCTURE STATIONS										
ELEMENT	E PIER 16 & PIER 17 & PIER 18 & PIER 19 & PIER 20 & PIER 20 & PIER 22 & PIER 23 & FIER 24 & PIER 25 & PIER 25 & PIER 28 & PIER 28 & PIER 29 & PIER 30 & PIER	ē									
STATION	228-35.83 2129-29.75 2130-23.67 2131-45.8 2132-41.50 2133-05.42 2133-99.33 2134-93.25 2135-67.17 2136-01.08 2137-75.00 2138-68.92 2139-62.83 2140-56.75 2141-50.67 2142-41.58 2143-38.50	ภี									

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PLOTTED: 27 JAN95-06.48 JO

Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FRANING PLAN (2)

PROJECT NO. 5896

C-76 BX1-88

940.ECT NO. 94ET NO.
5896 C-77A

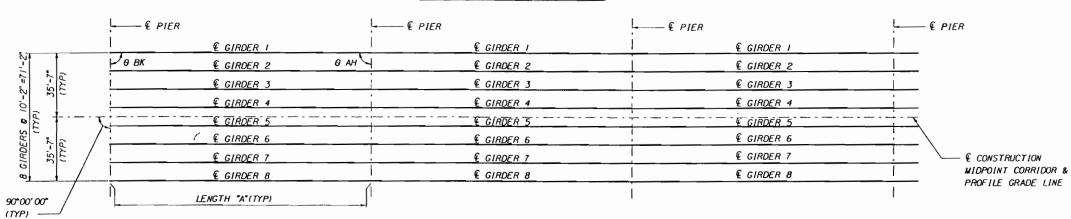
BX1-89

Separation of the property of

€ CONSTRUCTION
MIDPOINT CORRIDOR &
PROFILE GRADE LINE

KEY PLAN

DIRECTION OF STATIONING



NOTE: 8 (AHEAD) = 90°00'00" 8 (BACK) = 90°00'00"

FRAMING PLAN - UNIT I, J, N OR P

UNIT I- SPANS 32 THRU 34

UNIT J - SPANS 35 THRU 37 UNIT N - SPANS 49 THRU 51

UNIT P - SPANS 52 THRU 54

	UNI	TS I& J		UNITS N & P				
GDR	SPA	ANS 32 THRU 37		SPA	NNS 49 THRU 54			
NO.	BEAM TYPE	SPAN LENGTH	LENGTH "A"	BEAM TYPE	SPAN LENGTH	LENGTH "A"		
1	MOD. TYPE XI	144'-9"	144'-9"	MOD. TYPE III	144'-9"	144'-9"		
2	MOD. TYPE XI	144'-9"	144'-9"	MOD. TYPE XI	144'-9"	144'-9"		
3	MOD. TYPE XI	144'-9"	144'-9"	MOD. TYPE XI	144'-9"	144'-9"		
4	MOD. TYPE YI	144'-9"	144'-9"	MOD. TYPE VI	144'-9"	144'-9"		
5	MOD. TYPE II	144'-9"	144'-9"	MOD. TYPE XI	144'9"	144'-9"		
6	MOD. TYPE YI	144'-9"	141'~9"	MOD. IYPE YI	144'-9"	144'-9"		
7	MOD. TYPE YI	144'-9"	144'-9"	MOD. TYPE VI	144'-9"	144'-9"		
8	MOD. TYPE YI	144'-9"	144'-9"	MOD. TYPE YI	144'-9"	144'-9"		

					TABL	E OF SUB	STRUCTUR	RE STATI	ONS	and the second second second second second			Contract of the same of the sa	
ELEMENT	€ PIER 32	€ PIER 33	€ PIER 34	€ PIER 35	€ PIER 36	F PIER 37	€ PIER 38	€ PIER 49	€ PIER 50	€ PIER 51	€ PIER 52	€ PIER 53	€ PIER 54	€ PIER 55
STATION	2143+38.50	2144+83.25	2146+28.00	2147+72.75	2149+17.50	2150+62.25	2152+01.00	2168+85.00	2170+29.75	2171+74.50	2173+19.25	2174+64.00	2176+08.75	2177 +53.50

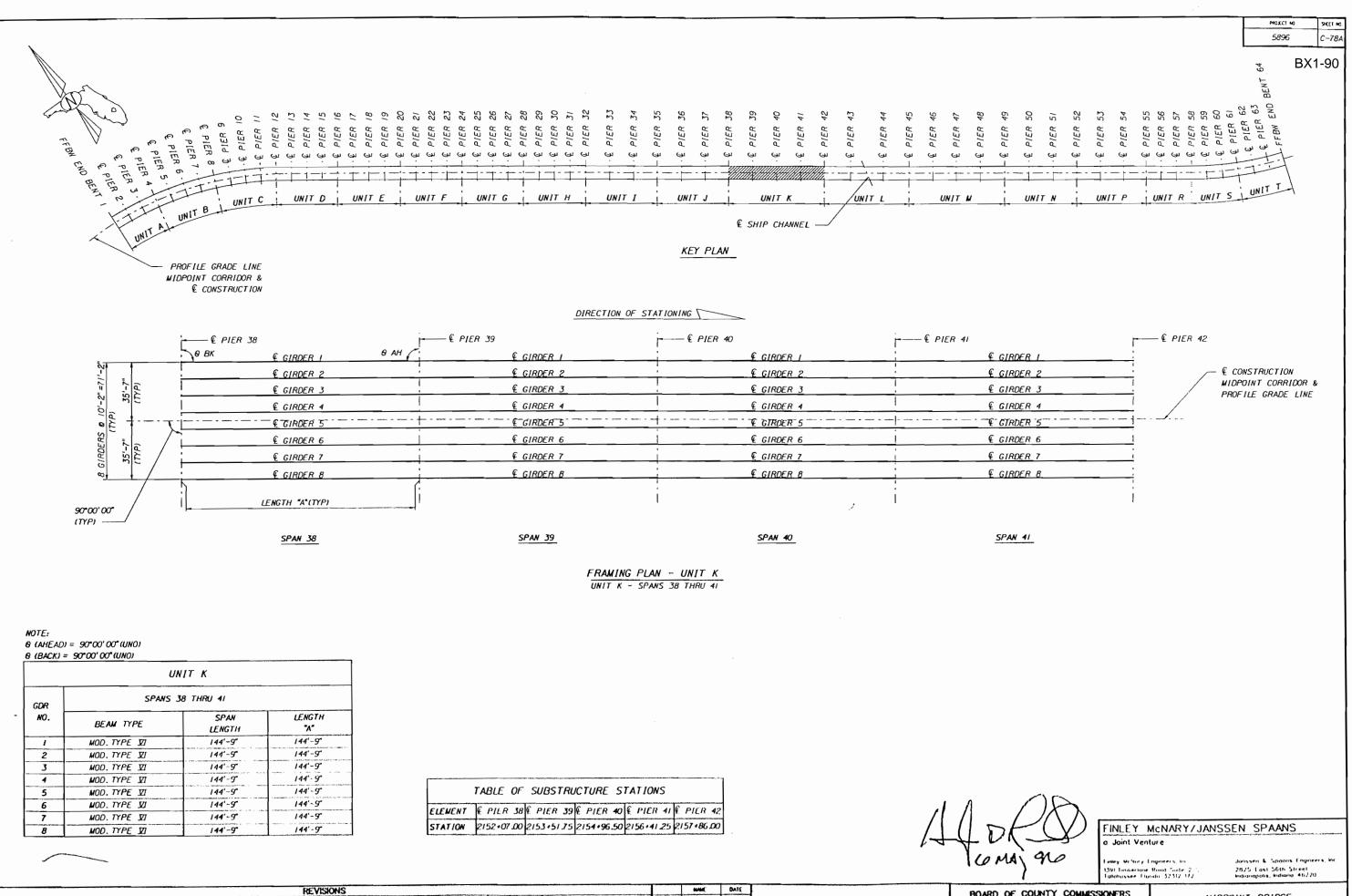
HADRO MAY 916

FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721 Jonssen & Spaans Engineers, Inc. 2825 East Stith Street Indianapolis, Indiana 46220

REVISIONS	HAME DATE	BOARD OF COUNTY COMMISSIONERS WIDPOINT BRIDGE
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FINLEY MCNARY/JANSSEN SPANNS

BOARD OF COUNTY COMMISSIONERS

LEE, COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE
FRAMING PLAN (4)

PROJECT NO 5896 C-79 BX1-91 UNIT R UNIT S UNIT G UNIT I UNIT J UNIT K /UNIT L UNIT N UNIT P UNIT E UNIT F UNIT H UNIT M € SHIP CHANNEL KEY PLAN € CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE 110'-0" 95'-0" 110'-0" 110'-0" 95'-0**"** DROP-IN SEGMENT HAUNCH SEGMENT END SEGMENT HAUNCH SEGMENT END SEGMENT DIRECTION OF STATIONING \ € PIER 44 € PIER 43-**€** PIER **4**5 — € PIER 42 ---€ GIRDER I € GIRDER I € GIRDER I JO BK O AH € GIRDER 2 € GIRDER 2 € GIRDER 2 90°00'00" € GIRDER 3 € GIRDER 3 € GIRDER 3 (TYP)€ GIRDER 4 € GIRDER 4 € GIRDER 4 . _ . _ . _ . 1 . _ . _ . _ _----₹ GIRDER 5 & GIRDER 5 F GIRDER 5 € GIRDER 6 € GIRDER 6 € GIRDER 6 € CONSTRUCTION € GIRDER 7 € GIRDER 7 € GIRDER 7 MIDPOINT CORRIDOR & PROFILE GRADE LINE -€ GIRDER B € GIRDER B & GIRDER 8 LENGTH "A"(TYP) INTERMEDIATE DIAPHRAGM/CLOSURE POUR (TYP) SPAN 43 SPAN 44 SPAN 12 FRAMING PLAN - UNIT L UNIT L - SPANS 42 THRU 44 0 (AHEAD) = 90°00' 00" (UNO) 0 (BACK) = 90°00' 00" (UNO) UNIT L SPAN 43 SPANS 42 & 44 **GDR** SPAN LENGTH NO. LENGTH BEAM TYPE BEAM TYPE "A" LENGTH "A" LENGTH MOD. MOD. TYPE YT 200'-0" 200'-0" 160'-0" MOD. MOD. TYPE XI 160'-0" 160'-0" MOD. MOD. TYPE II 200'-0" 200' -0" MOD. MOD. TYPE YI 160'*~0*" 160'-0" MOD. MOD. TYPE XI 200'-0" 200'~0" 160'-0" MOD. MOD. TYPE II 160'-0" MOD. MOD. TYPE YI 200'-0" 200'-0" 160'-0" MOD. MOD. TYPE YI TABLE OF SUBSTRUCTURE STATIONS 200'-0" MOD. MOD. TYPE YI 200'-0" 160'-0" 160'-0" MOD. MOD. TYPE II 200'-0" 200'-0" MOD. MOD. TYPE Y 160'-0" MOD. MOD. TYPE II 160'-0" ELEMENT & PIER 42 & PIER 43 & PIER 44 & PIER 45 200'-0" 200'-0" MOD. MOD. TYPE YI 160'-0" 160'-0" MOD. MOD. TYPE XI 2157 +86.00 2159+46.00 2161+46.00 2163+06.00 STATION FINLEY MCNARY/JANSSEN SPAANS MOD. MOD. TYPE ST 200'-0" 200'-0" 160'-0" 160'-0" MOD. MOD. TYPE YI Joint Venture

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FINLEY MCNARY/JANSSEN SPAANS

REVISIONS

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BOARD OF COUNTY COMMISSIONERS

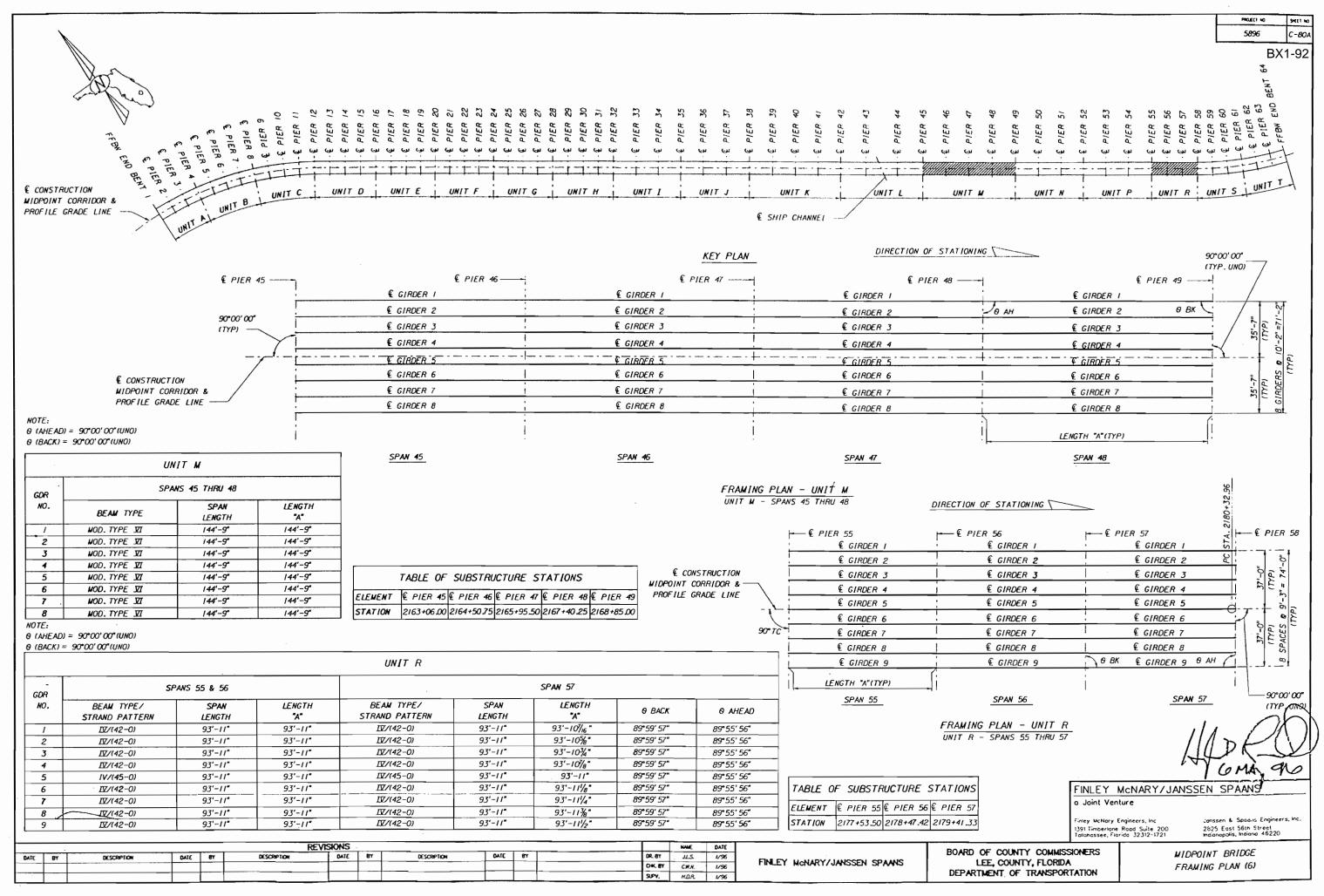
LEE, COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE
FRAMING PLAN (5)

Finkey McNory Engineers, Inc. 1501 Timberlane Road Suite 200 Tollanassee, Floridii 32312:1721

2825 Cast Stith Street Indignapolis, Indiana 46220



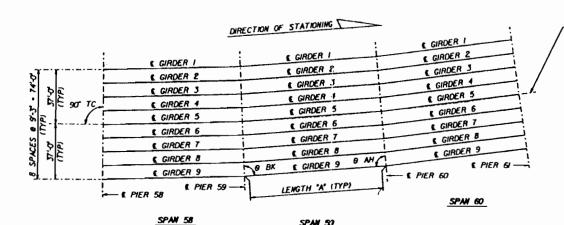


€ CONSTRUCTION MIDPOINT CORRIDOR &
PROFILE GRADE LINE -

UNIT M UNIT P E SHIP CHANNEL -

KEY PLAN

- L CONSTRUCTION WIDPOINT CORRIDOR & PROFILE GRADE UNE



FRAMING PLAN - UNIT S UNIT S - SPANS 58 THRU 60

SPAN 57

GIRDER I GIRDER 2 GIRDER 3 GIRDER 4 GIRDER 5 GIRDER 6 GIRDER 7 GIRDER 7 GIRDER 8 GIRDER 9	GIRDER I GIRDER Z GIRDER S GIRDER 4 GIRDER 5 GIRDER 6 GIRDER 7 GIRDER 7 GIRDER 8	GIRDER 1 GIRDER 3 GIRDER 4 GIRDER 5 GIRDER 6 GIRDER 7 GIRDER 8 GIRDER 9
€ PIER 61	LENGTH "A" (TYP)	SPAN 63
SPAN 61	SPAN 62	
L. R. CONSTRUCTION MIDPOINT CORRIDOR & PROFILE GRADE LINE	FRAMING PLAN - UNIT T	

8 (AHEAD) - 90" 00" 00" (UNO) 8 (BACK) - 90° 00' 00° (UNO)

		U	IIT S		UNIT T						
GDR NO.		SPAIRS S	SB THIFU 60		SPANS & THRU 63						
	BEAM TYPE/ STRAND PATTERN	SPAN LENGTH	LENGTH 'A'	Ø BACK	0 AHEAD	BEAN TYPE/ STRAND PATTERN	SPAN LENGTH	LENGTH "A"	Ø BACK	0 AHEAD	
,	N/136-0)	93'-II'	92'+// s *	88" 35' 29"	88' 35' 29'	N/136-0)	93'-II'	92'4//5"	88" 35' 29"	88' 35' 29'	
2	N/(42-0)	93'H*	92'-6/2"	88" 35' 29"	88° 35' 29°	N/142-0)	93'-11°	92'-6/5"	88" 35' 29"	88' 35' 29'	
3	N/(42-0)	93'-If	93'-0'	88" 35' 29"	88" 35' 29"	N/(42-0)	93'-11"	93'-0"	88° 35' 29'	88" 35' 29"	
4	N/(42-0)	93'-If*	93'-5//6"	88" 35' 29"	88" 35' 29"	N/142-0)	93'H"	93'-5%	88° 35' 29'	88" 35' 29"	
5	N/(45-0)	93'-11"	93'-10"/8"	88" 35' 29"	88" 35' 29'	N/145-0)	93'H"	93'-10//."	88" 35' 29'	88" 35' 29'	
6	N/143-0)	93'-11"	94'-4%6"	88" 35" 29"	88" 35' 29"	N/(43-0)	93'+I"	94'-4%s"	88" 35" 29"	88" 35" 29"	
7	N/(43-0)	93'-11"	94'-9'3/6"	88" 35' 29"	88" 35' 29'	N/143-0)	93'41"	94'-9'1/4"	88" 35' 29'	88" 35" 29"	
8	N/(43-0)	93'-11"	95'-3'/4'	88° 35' 29°	88" 35' 29"	N/(43-0)	93'H"	95'-3/4'	88° 35' 29'	88' 35' 29'	
9	N/(43-0)	93'-11"	95'-8"/ _{/s} "	88' 35' 29'	88' 35' 29'	N/(43-0)	93'-11"	95'-8"/ _{16.} "	88' 35' 29'	88" 35' 29"	

TABLE OF SUBSTRUCTURE STATIONS											
ELEMENT	£ PIER	58	£ PIER S	59	E PIER 60	& PIER 6	1	PIER 62	& PIER 6	5.3	FFBW END BENT 64
STATION	2/80-35.2	25	2181+29 J	7	2182+23.08	218347.00	į	218440.92	2/85+04 B	3	2/85+98 75

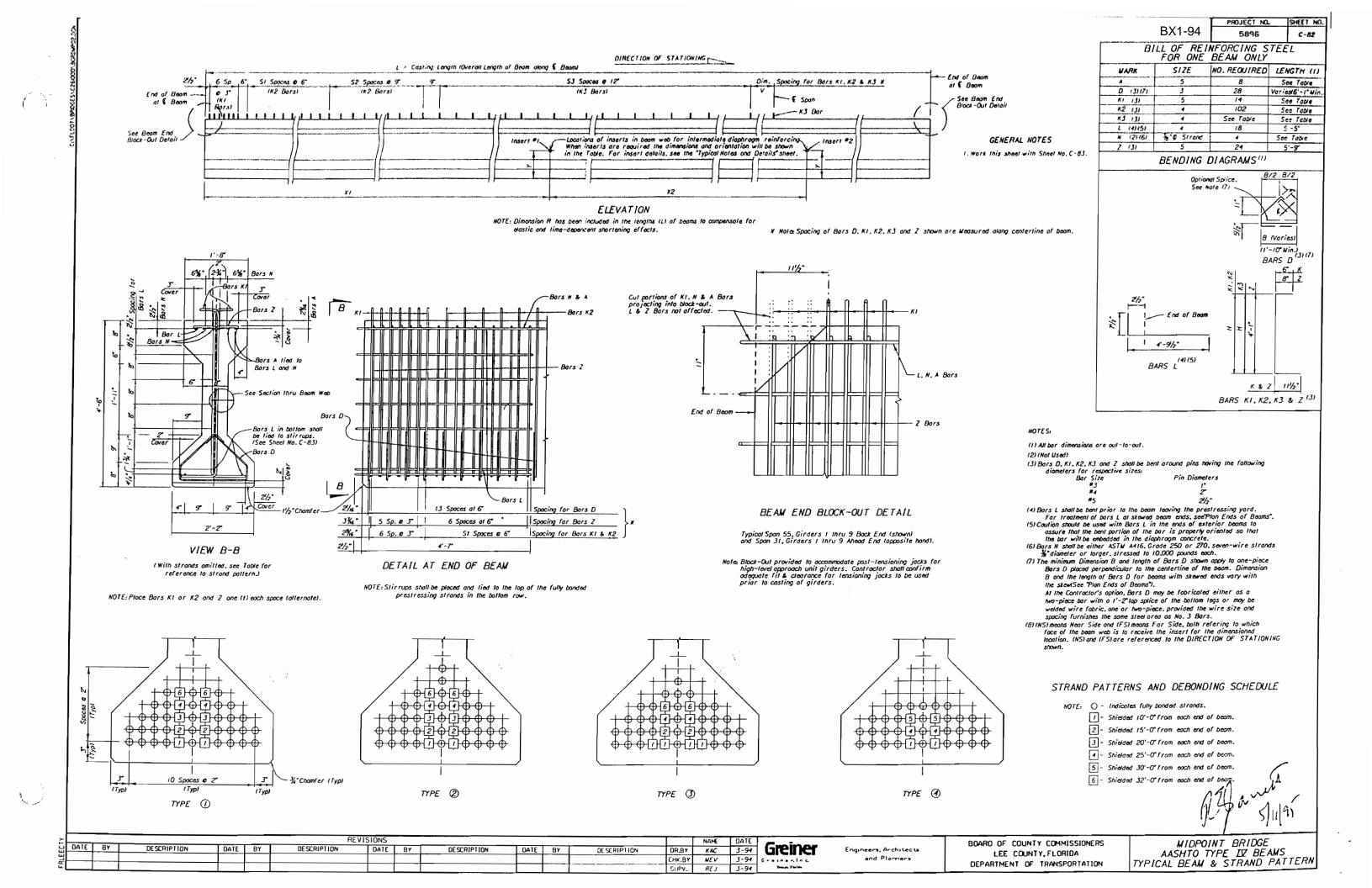
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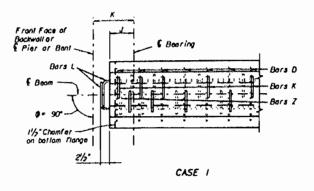
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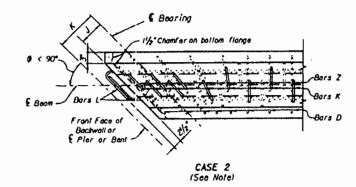
Engineers. Architects and Planners

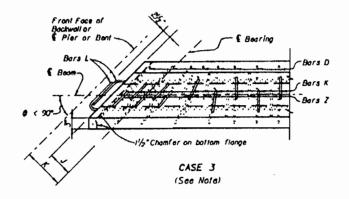
BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE FRANING PLAN (7)







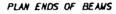


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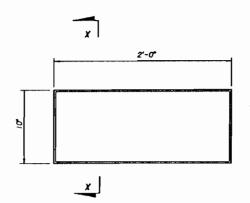
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CONDITION 3

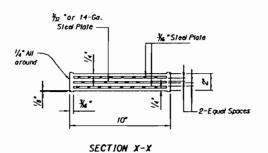
DIW. P



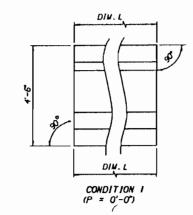
Note: For both Plan Views Case 2 and Case 3, the first Bor I and the first two Bars K shall be placed parallel to the skewed and of the Beam. The remainder of the Bars Z & K shall be placed so as to transition from an axis parallel to the skewed and to an axis perpendicular to the centerline of the boom. Bars D in the bottom flonge shall be ratated along with Bars Z & K. Bar spacing may be adjusted to miss welded studs for bearing plates. See also "End Elevations of Beams", this sheet.

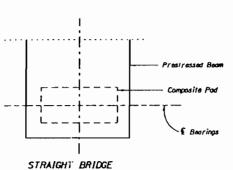


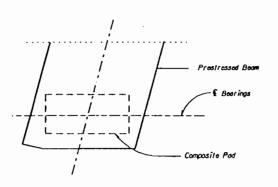
PLAN - COMPOSITE NEOPRENE PADS (720 REQUIRED)



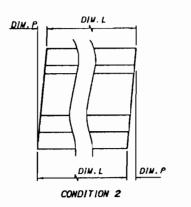
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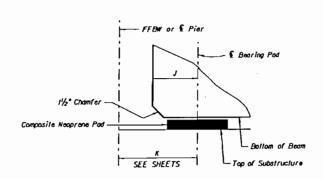




SKEWED BRIDGE

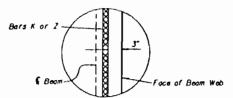


END ELEVATIONS OF BEAMS (Showing Vertical Bevel of Beam End)



DIM. P

SIDE ELEVATION - SECTION OF BEARING ASSEMBLY (Perpendicular to & Bearing)



SECTION THRU BEAM WEB (Showing Cover on Stirrups)

BEAM NOTES

MORTAR LEAKAGE: Any mortar leakage that occurs and stains resulting from leakage shall be removed so that beams have a uniform appearance.

STRANDS: At the option of the Controctor, other types, sizes and/or configurations of strands may be used in lieu of the stranding shown on these sheets. Calculations shall be submitted showing the substitution meets the following requirements:

- 1. The stronds meet all the requirements of ASTW-A416 for the grade of strands proposed.
- of strands proposed.

 2. The net compressive stress in the concrete due to prestressing acting alone, after all losses, is at teast as targe as that provided by the stranding shown on those sheets.

 3. The utilimate strength of the structure with the proposed stranding is at least equal to the utilimate strength of the original design.
- 4. The proposed stranding compties in all respects with the Department's Structures Design Guidelines.

FINISH. The lop surface of the beam shall be rough floated and then scrubbed transversely with a coarse wire brush to remove all laitance and to produce a roughened surface for bonding. All beams shall receive a Class 3 surface finish.

SUBMITTALS: The Specifications stipulate the conditions for which Shop Drawings are not required. If each and every condition can not be met, then a formal Shop Drawing submitted is required. Supplemental reinfarcing provided by the Contractor to facilitate fabrication of prestressed beams do not require Shop Drawings.

STRAND DETENSIONING: Strand detensioning shall be based upon the fallowing priority. from first to lasts

- t. Top dormant strands (Bars N)
- 2. Fully bonded strands
- 3. Partially debonded (shielded) strands

FORMS AND PALLETS: All beams shall be cast on concrete based pallets and in

HANDLING: In the handling of beams, they must be maintained in an upright position at all times and must be picked up from points located a maximum distance of 3 fl. from the ends of the beam.

STORAGE AND TRANSPORTATION: Beams shall be stored on odequate dunnage and supported during transit within 18 from ends of beam.

STRAND EXTENSION: All strands shall extend 21/2" beyond ends of beams.

CONCRETE: Refer to Table of Beam Variables for the class of concrete. 28-day strength (f'c) and cylinder strength at transfer of the tensioning lood (f'ci).

REINFORCING STEEL: All reinforcing steel shall be Grade 60.

BEARING PADS: The composite neoprene bearing pads shall be furnished and installed by the Contractor.

BEARING PAD NOTES

Heaprene in all Bearing Pods shall have a Grade 50 duromete hardness.

Steel Plates in composite pods shall conform to AASHTO Specifications M-251.

Variations in pad dimensions will be allowed provided revised pads will meet the current specifications and are approved by the Engineer.

NOTES: Work this sheet with individual beam sheets.

See "TABLE OF BEAM VARIABLES" on individual beam sheets for angle "b"s and dimensions "J", "K", "L" and "P".

For beams with vertically bevalled ends, such as conditions 2 & 3, the first Bar K shall be placed parallel to the end bavel. Adjacent Bars Z and K shall be placed so as to transition from an axis parallel to the end bavel to a vertical axis. The specing of Bars K and Z shown shall apply along the top flange of the beam and the specing along the bottom of the beam shall be adjusted by not more than \(\frac{1}{2} \) inch (1) until the vertical position is attained.

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REINFORCING STEEL VARIABLES BUILDUP AND DEFLECTION DATA

SPAN NO.	BEAN 10.	cow	ICRETE PROPI	×	STND PTRN	VNEW	PLAN	ENO ELEV			OF BEAN . O E DINEN			· ·	DEAN DIMENSION		NO. OF STIPME	SPACES UP BAR		TIRRUP DIM.	W	Α	ĸi,	KE		K3	ra		D THEOR		DEAD LOAD DEFLECTION DURING POUR	BEAM CAMBER
 .	w.	cryss-	REL. (f'ol)	OTHS BO-DAY (I'a)	TYPE	CASE (BK)	CASE (AH)	COMO	ANGLE 0	DOM P	DIN J (BK)	DIN J (AH	ром ка	א שום ט	DIN L DI	W R	57	SZ	53	DIN V	LENOTH	LENGTH	H	LENOTH	н	LENGTH	MO. RECOD.	BEGIN SPAN	C SPAN	END SPAN	(DIN. A)	
		vs	4600	6000		2	J	1	88' 35' 29'	0	71/2°	0/2	1-2	11	91'10'	Tourse or the last	44	6	17	11/2					1.9/4		37	<i>+</i> %,	% :	4%	7/9	1/5
	2	VS N	4600 4600	5500		2	3	++	88' 35' 29' 88' 35' 29'	0	71/2"	8/2.	1.5	14	91'-1/3'		#	6	77	8 X .	91.9/2	15'-0"	1'10	6'-1'	1-9/4	6'-3"	37 36	- 1 /4.	7)6 3/a	+%.	- 13°	5
	1	N	4600	5500	- ;-	2	3	17	88' 35' 29'	0	1//2*	8/2	1.2	14	93'-5%	7	44	6	77	3	93'+0X	15'-0"	1'10'	6'-4'	4.4/4	6'-5'	36	+X*	%a*	+×,	1/16	14/15
'	5	VS	4800	6000	2	2	3	+;	88' 35' 29' 88' 35' 29'	0	71/2"	8/2	1-2	1.0	93'-0/4'	-	11	6	16 16	1.0%	95'-5/4	15°0°	1'10	6'-1'	1-9/4	6'-3'	35 35	"	<u>%</u>	- 33. -	1/16'	17%
	7	N	4500 4500	5500 5500	3	2	3	+ ;	88" 35" 25"	0	1/2	8/2	1.2	14	92'-1/4'		#	6	16	1/2	92 6/4	15'-0'	1'-10'	6'-1'	1.9/4	6'-3"	34	1/4	1/2	17:	17%	+1/4"
	8	N	1500	5500	3	2	3	1	88" 35" 29"	0	11/2*	8/3	1'-2"	14	91.174	7	44	6	16	4%	92°0%	15'0"	4'10'	6'-1'	1.9/4		34	4/4	%e*	31/16	HX.*	4%°
	9	vs vs	4600	5500 6000	1 1	2 2	3	 	88' 35' 29' 88' 35' 29'	0	11/2*	8/2	1-2	1.0	91'-2/2'		#	6	15	10%	95'-5'	15'-0"	1-9/5	6'-5'	19/1	6'-3'	33	31/14°	776	4%°	778 P/18*	4/8
	2	vs	4600	6000	\dot{i}	2	3	1	88' 35' 29'	0	8/2	8/2	1.1	1'-1"	94' 6/2'		41	6	17	9%.	24'11/2	15'-0"	1'10'	6'-4'	4-9/4	6'-5"	57	1/4	7,0	1/4	1/3:	1//8
1	3	N	4600 4600	5500 5500	1	2	3	+ ;-	88' 35' 29' 88' 35' 29'	0	8/2	8/3	1.4	1'-1'	91'4/4'		#	6	T T	-7/s-	91.07	15'-0"	1'10'	6'-4'	4-9/4	6'-3"	.36 .36	+X	%e* ₩e*	+%.	1/2	5 45/16°
2. 5. 6. 9.	5	vs	4800	6000	2	2	3	+ +	88 35 25	0	8/2	8/2	1-1	1.1	93.5/4		#	6	16	1.1%	93' 7/4	15'0'	1'10'	6'-1	1-9/4	6'-3"	35	1);	3/6.	1/3.	1/16	5
# 10	6	N	4500	5500	3	2	J	1	88' 35' 29'	0	8//2	8//2	1'-1'	14	92'8%')		#	6	16	10//	93'+%1	15'-0'	1'10'	6'-4'	1.9/1	6'-3"	35 35	4/4	1/18**	1/4	1/16,	校.
	8	N	4500 4500	5500 5500	3	2	3	+;-	88' 35' 29' 88' 35' 29'	0	81/2"	8/2	1-1	14	31.3%	~~	11	6	16 16	5%	92-2%	15'0'	1'10'	6'-1	1.9/4	6'-5"	34	1/4:	776	1/2:	1%	4% 3%
	9	N	4300	5500 🔪	4	2	3	1	88" 35" 29"	0	8/2"	8/2"	14	1'-1'	9'-4/2'		44	6	15	1-2X	91.9/2	15'-0'	1'-9/3'	6'-3"	1.9/9	6'-5"	33	31/16	% :	31/16	- 1 %•	31/10
	2	vs vs	4600	6000 6000	- '- 	2	3	1	88' 35' 29' 88' 35' 29'	0	11/4.	8/2	1.1	14	94'-10'4'		11	6	77	9/4	91'+0/4	15'-0'	1'10'	6'-4'	4-9/4	6'-3'	37 37	4/4"	7/6 3/6	4%.	1/2°	4/6
	3	N	4600	5500	i	2	,	1	88" 35" 29"	0	71/4"	8/2"	1-1	14	94'-0'	·	44	6	17	6/2	94'-5"	15'-0"	1'-10"		4-9/4	6'-5"	36	+X*	% *	13.	1/3°	5
1. 8	5	N VS	4600 4800	5500 6000	2	2	3	 	88° 35' 29' 88° 35' 29'	0	T'/4°	8/2	14	14	93'-6//2' }		#	6	17	3/4	92'-6'	15'-0'	1'10'	6'-4'	4.9/4	6'-3"	36 35	**···	7/4°	 *** -	1/16	45/16°
7. 8	6	N	4500	5500	3	2	3	+;-	88" 35" 29"	0	71/4"	8/2	1-1	14	92'-7//2'		#	6		10/4°	93'0/2	15'-0"	4'+0'	6'-4'	4-9/4	6'-3"	J5	1/4	1/16	1/4.	1/16	44.0
	7	N	4500	5500	3	2	3	<u>'</u>	88" 35" 29"	0	71/4"	8/2	1-4	14	92'-2"	X	44 44	6	16	11/2"	92'-1'2"	15°0°	4'+0'	6'-4'	4-9/4	6'-J" 6'-J"	34 34	1/3	%e*	1/4	1X.	4%.
	8 9	N	4500 4300	5500 5500	3	2	3	1	88° 35° 29° 88° 35° 29°	0	71/4° 71/4	8/2*	1.4	1-4	91'-51/2" 3	X	44	6	16 15	+½° 1'-2/0°	91.8/4	15'-0'	4.9/2	6'-3"	1'-9/4'	6'-3'	33	31/m2°	3/16.	3"/16°	1%.	¥%°
	1	VS.	4600	6000	1	2	3	1	88' 35' 29'	0	8/2	71/9"	14	11-19	34'+0%'	~	44	6	77	11/4	95'-J - /4	15'-0'	1'-10'	6'-4'	1'-9/4"	6'-5'	37	4%	%6*	4%6"	P/16°	4/8
	3	VS N	4600	5500	 ' 	2 2	3	+ +	88° 35' 29° 88° 35' 29°	0	8/2*	T'/4°	1.7	1'-1'	94'-5/4")		11 11	6	7	6/2°	94'-5"	15'-0'	1'+0'	6'-1'	1-5/4° 1-5/4°	6'-3'	37 36	+X*	7/6°	+%*	1/2"	5
1	4	N	4600	5500		2	J	1	88° 35° 29°	0	8/2"	71/4°	14	1-6	93'-6//2'	Ž.	44	6	77	-7	93'-11/2	15'-0'		6'-4'	4.9/4	6'-3"	36	+%	%**	+%	1/16	11/16
3. 7	5 6	vs N	4800 4500	5500	2	<u>2</u>	3	+	88° 35' 29' 88° 35' 29'	0	8/2	71/4"	1-6	1'-1'	93'-1' }		11	6	16 16	11-1	93'-6%	15'-0'	4'+0"	6'-4'	4-9/4	6'-3"	J5 J5		%e	1/2	1/16.	5 +¥°
	7	~	4500	5500	3	2	3	 	88° 35' 29'	o	8/2.	1/2	1.1	1'-1'	92' 2'		44	6	16	1/2	92-7	15'-0"	1'-10'	6'-4'	1.9/1	6'-5"	34	1/3	- X	1/4	HX*	+¾°
	9	~	4500 4300	5500 5500	3	2	3	1	88° 35° 29°	0	8/2"	11/4	1'-1"	1'-1'	91'-5'/2'		44 44	6	16 I	+¾• !-2/-	92 1/21	15'-0'		6'-3'	1'-9/4	6'-3"	34	4/4°	%e*	4/4°	- H.	34/16°
	- j	VS	4600	6000	7	2	3	3	88' 35' 29'	1/4"	8/2	7/4	14	r-r	94'-10%			6	77	11/0	95'-JX	15'-O'	4'-9/2'	6'-J	1.9/4	6'-5'	37	1//8*	%€	1/2	P/16°	4/8
	2	vs v	4600 4600	5500	' ,	2 2	3	3	88' 35' 29' 88' 35' 29'	1/4°	8/2	71/4"	1'-1'	1'-1'			11	6	77	9/0		15'-0"	4-9/2	6'-3 6'-3	1-9/1° 1-9/1°	6'-3" 6'-3"	37 36	2%	%s*	2%	1/2	4// ₆ *
	4	N	4600	5500	<i>i</i>	2	3	3	88° 35' 29'	1/0"	8//2"	71/4"	1'-1"	ľ-ť	93'-6/2'		44	6	17	J-X.	93'11/2"	15'-0°	1'-9/2'	6'-3	4'9/4"	6'-3"	36	3/,	%s*	3/16*	1/16	44/16
"	5	VS N	4800 4500	6000 5500	2	2	3	3	88' 35' 29' 88' 35' 29'	1/15	8/2"	7/4'	1'-1'	1'-1'	93'-1' 7		44 44	6		1'-1'		15'-0'		6'-3 6'-3	1'-9/4' 1'-9/4'	6'-3"	35 35	31/n°	%s	3%°	1/16" 1/16"	5 +¥°
	7	<i>N</i>	4500	5500	3	2	3	1	88' 35' 23'	0	8/2*	71/4	1'-1'	1-1				6		71/2"		15'-0'	4'-10/4"	6'-1'	1'9/4'	6'-3"	34	47/6"	%s*	4%6"	13	+%*
	8	N	4500	5500	3	2	3	2	88° 35' 29' 88° 35' 29'	1/16"	8/2	71/4"	1'-1'	1'-1'	91'-51/2"			6 6		+1/4				6'-4'	1'-5'/1' 1'-5'/1	6'-3' 6'-3'	34	+X'	%s*	4/15	136.	4%°
—	9	N	4300 4500	5500 5500	3	2 2	3	3	89' 3' 27' 89' 44' 27'	1/2.	71/4"	8/2	17	14	95'+0//4' 7			6		5%		15'-0'		6'-3"	4'-9"	6'-3'	36	3//0	1/16*	31/16	1/2°	44/6"
	2	VS	4500	6000	3	2	3	3	89' 3' 24' 89' 44' 30'	1/16	71/4°	8//2"	1'-1'	1'-1'	93'-8'		-	6	77	1/2				6'-3"	1-9°	6'-3' 6'-3'	36 36	3½°	//s*	3%°	1/2°	41/16°
	3	VS N	4500 4500	5500	3	2 2	3	3	89° 3' 22' 89° 44' 33' 89° 3' 19' 89° 44' 35'	₩ ₆ *	7½° 7¼°	8/2"	1'-1"	1.4			-	6				15'-0'			1'-9'	6'-3'	35	314/16	1/16*	31/16°	1/16*	4 1/16"
12	5	VS	4800	6000	2	2	3	3	89" 3" 17" 89" 44" 38"	%s*	71/4°	8/2	1'-1"	1'-1'	93'-1'	, ,	11	6	16	14		15'-0'				6'-3'	35	4/s* 3/s*	//s	315/16" 311/16"	1/16"	5 4¾6°
	6 7	N '	4500 4500	5500 5500	3	<u>2</u> 2	3	3	89° 3' 14" 89° 44' 40" 89° 3' 12" 89° 44' 43"	1/18	7'/4° 7'/4°	8/2"	1'-1'	1'-1'				6				15'-0'			1'-9'		35 35	3//8*	1/16"	3"/16"	1/16	+%*
	8	N	4500	5500	3	2	3	2	89" 3" 9" 89" 44" 45"	1/16"	71/4"	8//2"	1'-1	14	92'-6"	6 4	44	6	16	9/2'	92'-11'	15'-0"	4'-5/2"	6'-3'	4'-9"	6'-3'	35	3//2	//rs*	31/16"	1//16"	+%.
	9	N	4500 4500	5500 5500	3	2	<u> </u>	2	89° 3' 6° 89° 44' 48° 90° 00' 00°	1/2"	7'/4" 8'/2"	8/2*	1'-1'	1'-4"	92'-3'4' X			6				15'-0'					35 35	315/16" 35%"	1/4"	3%,	1/15'	43/16"
	2	N	1500	5500	3	1	,	3	90' 00' 00'	1/16	8/2	8//2*	1'1"	1'-1'	93'-2%' }	,	44	6	16 1	1'+7%	93'-7%	15'-0 '	4'-5'	6'-3"	4'-9"	6'-3"	35	3%6"	1/4*	3/16	1/16"	47/16
	3	N	4500	5500	3		,	3	90, 00, 00,	7/6	8//2*	8/2	1'-1'	1'-1'	93'-2% X			6	16 I	1'-1%' 1	93'-7*	15'-0'	4'-9'	6'-3'	1'-9'	6'-3'	35 35	3%6°	1/4°	3/16"	1/16"	43/16"
13	5	N VS	4800	5500 6000	3 2	1	,	3	80, 00, 00,	1/4° 1/6°	8/2°	8/2	1'-1'	1'-1"				6	16 1	1'-1% 9	93'-7%	15'-0°	1'-5/4"	6'-5"	4'-9"	6'-J'	35	313/16	1/4°	3"/16"	1/16"	5
	6	N	4500	5500	3	1	' !	3	90' 00' 00'	1/16"	8/2"	8//2"	1'-4	1'p"				6				15'-0' 15'-0'					35 35	3½°	1/4.	3/4	1/16°	1/16
	7 8	N N	4500 4500	5500 5500	3	1	1	2	80, 00, 00, 80, 00, 00,	//s*	8/2° 8/2° 6/2°	8/2	1'-1'	1'-1"	93'-2%' %			6	16 I	1-17/4 9	93'-7 1/4	15'-0"	4'-5"	6'-3"	4'-9"	6'-3"	35	31/16"	1/4"	246	1/16"	44/16"
	9	N	4500	5500	3	1	1	2	90° 00' 00°	1/6"	8//2*	8/2"	1'1"	<i>l'</i> → r *	93'-2%' X	i' _4	11	6	16 1	14%	93'-7%	15'-0"	4'-9"	6'-3"	4'-9'	6'-5"	J5	31/16"	1/4° 1/15°	2/16		47/6"
	2	N N	4500 4500	5500	3	1	'	3	90, 00, 00, 30, 00, 00,	1/2"	8/2°	8/2	1'-1"	1'-1" 1'-1"	93'-2%' %			6	16 1	14%	93'7%		4'-9	6'-3"	1'8%	6'-3"	35 35	3/16	1/16*	31/16"	1/16"	4416
	3	N	4500	5500	3	1	1	3	90" 00" 00"	7/6°	8/2*	8//2	<i>i'-i</i> '	1'-1"	93'-2%' *	, 4	11	6	16 I	1-1%	93'-7 X	15'-0'	1'-9	6'-3"	1'-8%	6'-3"	35	3/16*	1/16*	3/4	1/16°	43/16
14	4 5	N VS	4500 4800	5500 6000	3	1	1	3	30, 00, 00,	1/4°	8/2°	8/2		1'→* 1'→*				6	16 I	'+% 9	93'-7%	15'-0'	1'-9	6-5	4 -8 X	6'-3"	35 35	31/16"	1/16"	31/2"	1/16"	43/16"
"	6	~	4500	5500	3		'	3	90" 00" 00"	7/6°	8//2"	8//2	1'-1'	1'-40	93'-2%' %	' 4	14	6	16 I	"+%" S	93'-7%	15'-0"	4'-9	6-3	4'84'	6'-3"	35	3//6*	1/15	3/16"	1/16	47/6
	7 8	~	4500 4500	5500	3	1	1	3	90, 00, 00, 20, 00, 00,	¥6°	8/2° 8/2°	8/2*]'f']'f'	1'r	93'-2%			6	16 I	'-f%' = [9	93'-7%'	15'-0" 15'-0"	1'-9	6'-3" -	4'-8-4'	6'-3'	35 35	3//6"	¾6°	3//6"	17/16*	14/16
	9	N	4500 4500	5500 5500	3	1	'	3	30, 00, 00,	716	8/2	8/2	1'-1'		93'-2%' %			6	16 1	- / % 9	93'-7-	15'-0'	4'-9/4'	6'-3 '	1'84'	6'-3"	35		y ₁₆ .	3%,	1/16	17/16

* CLASS VS - V ISPECIAL

WORK THIS SHEET WITH SHEETS C-82 & C-83.

DR. BY HMG 1/94
CHK. BY CFC 1/94

CHK. BY CFC 1/94 REVISIONS DESCRIPTION DESCRIPTION DESCRIPTION DATE BY DATE BY DESCRIPTION DATE BY

TABLE OF BEAM VARIABLES

BOARD OF COUNTY COMMISSIONERS Engineers, Architects LEE COUNTY, FLORIDA and Planners

MIDPOINT BRIDGE

PRESTRESSED BEAMS AASHTO TYPE N
TABLE OF BEAM VARIABLES (I)

PROJECT NO SHEET N

BX1-97

1										TABLE OF	F BEA	W VARA	BLES										REINF	FORICING :	STEEL V	WIABLE S	s	BUILD	UP AND	DEFLECT	ON DATA	
SPA	w p.c		CONC	CRETE PRO		STND	PLAN	PLN	END				F BEAN AN	_		BE		MO.	OF SPACE	S FOR S	TIRRUP	-	A	KI, K	2	KJ		REQUIRE	D THEOR	ETICAL.	DEFLECTION	BEAN
NO			2225	STREI REL. (f'ol)	BO-DAY (FO)	PTRN	CASE (BK)	CASE (AH)	ELEV	ANGLE 0	NN B	ACCUPATION OF THE PARTY OF THE	E DINENSK	ONS HI) DIN K (BK	TOU F (AL	DIMEN.	SXONS DIN		IRAUP BA		DIN.	LENGTH	LENGTH	ни	NOTH H	LENGT	M NO.		OVER (DURING POUR	CAMBER
-		,	N	4500	5500	3	1	1	3	80, 00, 00,	1/2.	8/2	7/4	1-7	14	95'4	X:	7 4	52	-	1.5	93'6	15'0	1'-10/4'	6'-5' 1'-9	6.3	" REGIO	37/16	1/16	37/6"	IDIN. N	17/6"
		2	N	4500	5500	3	i	'	3	30, 00, 00,	/15	8/2	11/4	1.4	14	93'4	TX.	' 44	6	16	14	95'6'	15'-0"	4'+0/4'	6'-5" 4'-9"	6'-5"	35	31/4.	1/16	3%.	1/16	17/16
1	-	3	~	1500 1500	5500	3		 /	1 3	30, 00, 00, 30, 00, 00,	7	8/2	7/4:	1-1	1.4	93'-4		44	6		11-10	93' 6'	15'-0°		5'-5' 1'-9' 5'-5' 1'-9'		35	3/4	1/10	3%.	<u> </u>	17/10
15	THE PERSON NAMED IN		VS	4800	6000	2		 	13	80, 00, 00,	¥/6*	8/2	7/4	17	14	95'-	+3.	++	6	_	17	93'6'	15'-0"		5'.5' 4'.9'	4' 6'-5'	35	3/2	1/16	31/16	1/16	5'
1		*	N	4500	5500	3	,	,	3	30, 00, 00.	Xe.	8/2	7/4	1'-1'	14	93'-	18.	44	6		14	93'6	15'-0"		5'-5" 1'-9"		35	3/16	¥6°	3//16	1/10	17/16
		·	N	4500 4500	5500 5500	3	',		3	80, 00, 00,	X	8/2	7/4	14	14	93'-4"	↓ .	44	6		11-1	93'-6"	15'-0"		5'-3" 1'-9"		35	3//6.	₩:	3//6	//si	17/4
			"	1500	5500	3	·	 	13	30, 00, 00,	-716_	8/2	71/2	14	14	95'-7	1	44	6		1'-10	37.6	15'-0"		5'-5' 4'-9' 5'-5' 4'-9'	6'-5'	35	37/16	76	3%	7/16	47/4
			N	4500	5500	3	1	,	3	90, 00, 00,	1/4	7/4	8/2	1.4	14	95'4'	**	14	6		1'-1	93'6'	15'-0"		5'-4' 1'-8		J5	1/2	7/6	1/2	1/10	44/6
1	1		N	4500	5500	3		1	3	90' 00' 00'	×6.	7/4"	8/2	1'40	1.0	95'-	X.	- 44	6		14	93'6'	15'-0"		5'-1 1'-0		35	1/15	₩6*	4/3	1/16	44/16
	1		N	1500 1500	5500 5500	3	1	 ', 	1 5	90'00'00	-76-	71/4"	6/3	1.4	1.0	93'-1"	1-2-	11	6		1'-P 1'-P	37.4.	15'-0'		5'-1 1'-8		J5 J5	1/4'	7/6°	1/4'	1/16	47/16
16	5	5	VS	4800	6000	2	i	1	3	90, 00, 00,	1/0	7/4	8/2	14	1.4	93'-7"	*	14	6		1'10	93'6	15'-0		5'4 1'8	6.2	35	+	¥/6.	4/16	1/16	5.
1	6	_	N	4500	5500	3	1	1	3	90' 00' 00'	1/9	71/4	8/2	1'-1'	1.40	93'-	8.	11	6		1'-1"	93'-6"	15'- 0 "		54 40	1	35	314/16	×6.	311/16"	1/16"	44/15
١.	8		N	4500 4500	5500 5500	3		 ',	1 3	90' 00' 00'	//	71/4"	8/2	1.4	14	93'-1"	<u> </u>	11	6		<u> </u>	93'-6"	15'-0'		5'4 1'8		35	3/4/4	₩. ×.	3/1/16"	1/16	1/16
L.	9		N	4500	5500	3		, , , , , , , , , , , , , , , , , , , 	3	90' 00' 00'	//-	7/4	8/2'	14	14	93'4'	1 ×.	44	6		14	33,4	15'-0'		5'4 1'8	4' 6'-5'	35	3/3/4	y/c*	315/16	1/16*	17/16
	1		N	4500	5500	3	1	,	1	90' 00' 00	0	8/2	8/2	14	1'-1'	93'-2%	X.	11	6	16 /	- (93'7%	15'-O'	1'-9/4'	5'-5' 4'-8	6. 2.	35	3%,	¥€.	3%,	1/14.	44/15
	2	_	N	4500 4500	5500 5500	3	1	',	1.	90° 00° 00°	0	8/2	8/2	1'-1"	1.4	93,-5%,	*·	11	6	16 /		93'7%	15'-0'		5'-3' 4'-0'	6'-5'	35	3//6*	¥6'	3//6	1/16	44/6
/7. A	ļ		N	4500	5500	3		+ ',	+ '	30, 00, 00,	0	8/2	81/2	1.0	1.4	93,-5%,	1 y	11	6	16 1 16 1		93'7%	15'-0' 15'-0'		5'-5" 4'- 0) 5'-5" 4'- 0)	6' 6'-5'	J5 J5	31/16"	₩s*	31/16*	1/16"	4716
27, 2	2. 5	5	vs	4800	6000	2	<u> </u>	,	ī	90, 00, 00,	0	8/3.	81/2	1'-1'	1.7	93'-2%'	X.	111	6	16 1	1%.		15'-0"		7-5' 4'8)		35	31/16	₩ ₆ *	31/16"	1/16	5*
25 &	26 6		N	4500 4500	5500	3			1	90, 00, 00.	0	8/2	81/2'	1'-1"	1'-1'	93'-2%	*.	111	6	16 1			15'-0°		1-5 4'-0	·-	35	37/16	₩s*	3//16*	1/16	47/16
1			$\frac{N}{N}$	4500 4500	5500 5500	3		' ,	 ', 	90'00'00'	0_	8/2"	8/2	1.5	1.4	93'-2%	*	11	6	16 I	- 55	93' -7 % 93'-7 %	15'-0'		7-3' 4'-8'		35 35	3//6"	7/6°	31/16	1/16	47/6
	9		N	4500	5500	3	1	1	1	90' 00' 00	0	8/2'	8/2	1.1	1-1	93,-5%,	1 3.	11	6	16 /	-7	93'7%			5-5 1-8	·	35	3%.	¥6°	3%	P/16°	47/6
	1		N	4500	5500	3	1	1	ī	90'00'00	0	8/2	71/4"	14	14	93'-1"	X.	11	6	16	1-1	93'-6'			'-5" 4'-8)		J5	3%.	Y16*	3%	17/16	44/15
1	2	_	N N	4500 4500	5500 5500	3		- ',	 ', -	90, 00, 00	0	8/2	71/4"	1'-1'	140	93'-1"	% .	11	6 -		1'-10	93'6'	15'-0"		7-5 4-8		35	3//16	%s*	3//6	1//15	47/6
	4	_	"	4500	5500	3	'	' ,	' ,	90' 00' 00'	0	8/2"	71/4	14	1.5	93'-1"	*·	11	6		1'-P	93'6' 93'6'	15'-0"		7-3' 4'-8)		35 35	31/16	-Xe*	31/16"	1/16	44/15
19, 2			vs	4800	6000	2	1	1	1	90" 00" 00	0	8/2	71/4"	1'-1'	1.1	93'-1"	**	11	6		1.1		15'-0"		-5 4·0)		35	3"/16"	₹6'	311/16"	F/16*	5'
1	6	_	N N	4500	5500	3		1	1	90" 00" 00"	0	8/2*	71/4"	14	1.4	93'-1"	¥.	11	6		1'-10		15'-0"		'-3' 4'-0)		35	3//16	<u></u> X€.	3//16"	1/16	44%
1	8	_	" "	4500 4500	5500 5500	3		''	'	90, 00, 00	0	8/2"	71/4"	1'-1'	1.0	93'-1"	<u>**</u>	44	6		1'-P		15'-0"		'-5' 4'-8\ '-5' 1'-8\	·	35	3//6"	₩ ₆ *	3//6"	P/16°	44/16"
	9		N	4500	5500	3	1	i	<i>i</i>	90, 00, 00	0	8/2*	71/4"	1.4	1.4	93'-1'	*	111	6		<u>r-r</u>				-5 1-0)		35	3%.	₹6.	3%	1/16'	47/15
	1		N	4500	5500	3	1	1	1	90' 00' 00	0	7/4"	8/2"	ľď	14	93'-1"	X.	11	6	16	1'-10				'-5' 4'-8'x		35	3%	7/6"	3%	1/15	4415
1	2		<u> </u>	4500 4500	5500 5500	3	-;	- ', - 	- ,-	90' 00' 00'	0	T'/4°	81/2*	14	1.4	93'-1"	*.	11	6		1'-P		15'-0'		'-3' 4'-8\x'		35 35	3//16°	%s*	3/16	17/16	47/6"
20	1	_	N	4500	5500	3	',	, , , , , , , , , , , , , , , , , , , 	,	90 00 00	0	7/4	8/2	14	14	93'-1"	X.	++	6	_	r-r		15'-0'		'-5' 4'+8'X		35	3//16°	7/6	3///6	1/16	47/6
	5	_	vs	4800	6000	2	1	1	1	90' 00' 00'	0	71/4"	8//2"	1-1	1-1	93'-1"	*.	44	6		1-10			4'-9/4' 6	'-5' 4'-8\	6'-3'	35	3"/16"	¥16°	311/16°	17/16	5*
24	7	$\overline{}$	<u> </u>	4500 4500	5500	3	- ', -	',		90, 00, 00,	0	71/4"	8/2'	1'-f	1'-1"	93'-1"	₩.	11	6		r-p		15'-0'		'-3' 4'-8\\ '-3' 4'-8\\		35	3//16*	⅓ 6.	37/16*	1/16	47/6
1	8	_	<u>~</u>	4500	5500	3	' ,	', 		90' 00' 00	0	T'/4°	8/2	1-1	1'-1"	93'-f'	78	11	6		1-p		15'-0" 15'-0"		'-3' 1'-8\ '-5' 1'-8\		35 35	31/16	₹6°	3/16	17/16"	47/6"
	9	_	N	4500	5500	3		1	1	90' 00' 00'	0	71/4"	8/2	1-1	1'-1"	93'-1"	₹.	44	6		-4-	_		4'-9/4' 6	'-3' 4'-8%		35	3%	¥16'	3%		44/15
	2	\rightarrow	$\frac{v}{v}$	4500 4500	5500 5500	3	_ ', _	1	3	90' 00' 00'	//s:	71/4	8/2'	1.4	14	93'-1"	¥.	11	6		4				'-f 1'-8%		35	+%5*	₹/s'	+%6*	17/16*	47/6
	3	_	v	4500	5500	3	'	- ',	3	90, 00, 00	1/16.	71/4°	8/2	1-1	1.4	93'-f'	*.	11	6		7-70				' 1 1'8\'		35	7	7/6 Ye*	7	P/16°	47/16"
1	4	/	V	4500	5500	3	,	1	3	90' 00' 00'	1/K*	7/4	8/2	1.1	1.4	93'-1"	**		6						4 4'8%		35	7	₩6*	1	17/16"	47/6
28	5			4800	6000	2	/	/]	3	90, 00, 00,		71/4"	8//2*	1-1	14	93'-1"	*		6						4 1'8			4/4	1/16"	4/4.	1/16	5*
	7			4500 4500	5500 5500	3		- ',	3	90' 00' 00	1/16	T'/4°	8/2	14	1-1"	93' -1 "	*.	44	6						'-f 1'-8% '-f 1'-8%			1	₹6°	7	17/16	47/16
	8		V	4500	5500	3	<i>'</i>	,	3	90' 00' 00'	1/16"	7/4"	8/2"	1.7	14	93'-1"	₹.	14	6		7-	93'-6'	15'-0'	1'94' 6	4 1'8X	6'-3"	35	~	₩.	4	17/16"	44/16
	9			4500	5500	3		,	3	90" 00" 00	1/16	71/4"	8/2"	14	14	95'-₽	*	44	6	16 1	4	93'-6"	15'-0'	4'-9%' 6	4 184	6'-3"	35	4%5	¥6°	4%5°	1/16	4-4/16"
	2			4500 4500	5500 5500	3	', 		3		%5°	8/2*	81/2"	1'-1'	מ-ניו מ-ניו	93'-2 % *	¾ ,	44	6						1 1 0 %			4/4'	¾6' ₹6'	4/4"		47/16
	3		-	4500		3	', 		3		7/6°	8/2	81/2"	14	1'-P	93'-2 % *	*		6						1 1 8%			4/6	7/6	4/8	1/16	47/6
	1	٨	v	4500	5500	3	1	1	3	90' 00' 00'	₹6.	8/2	8/2'	ľ-f	1'-1'	93'-2%	*	44	6	16 1'-	F% 9	73'7 %	15'-0'	1'-9%' 6	1 1'84	6'-3"	35	4/6	1/15	4/8	1/16"	4416
29	6			4800 4500	6000	2	1	/	3	90'00'00'	%. ₹	8/2	81/2"	1-1		93'-2%			6	16 1'-	1% 9	3'-7-%	15'-0'	1.94' 6	4 4.0%	6'-3"	35	+%*	%s'	+%*	1/15	5*
	7			4500		3	-/-	',	3	90, 00, 00	%°° .	8/2*	8/2"	14		93'-2 % *			6						1 1'8% 1 1'8%			4/6'	¥€.	4/6"		44/16
	8	^		4500		3	, 	'	3		7/6 →	8/2*	81/2°	14	14	93'-2%	*.	44	6						1 1'-8%			4/6	7/6'	4/8*	1/15	4416
	9			4500		3	1	1		90, 00, 00,	%°	8//2*	8/2"	I'-f'	14	93'-2%	₩.	44	6	<i>1</i> 6 <i>1</i> ′-	% 5	35'-7-16	15'-0" 4	1'-974' 6'	1 1'8%	6'-3"	35	4/4°	%₅ *	4/4°	1/16	44/16
	2	_		4500 4500		3	', -	- ',	3		%°°	8/2	8/2	1'-1'	14	93'-2%'			6						1 1.8%			4/4'	₹6°	4/4"		44/6
	3			1500		3	', 	-;-			%5°	8/2	8/z*	14	1'-1"	93'-2 % *		44	6						1 1'8 1/4 1 1'8 1/4			4/6	¾6°	4/8"		4716
	4	^	/	4500	5500	3	,	, -		90' 00' 00'	%6'	8/2'	8/2"	1-7		93'-2%			6	16 1'-	% 9	3'7%	15'-0" 4	1'-9%' 6'	1 1'8%	' 6'-3'	35	4/6	₹6'	4/8°	17/15	47/16
30	5			4800		2	/	'	3		9/16"	8/2"	81/2"	1-1	1'-1'	93'-2\%	*	44	6	16 1'-	% 9	3'-7%	15'-0' 4	r-9% 6'	1 1'8%	6'-3"	35		₹6'	4%*	17/16	5*
	7			4500 4500		3	', 	',			%6°	8/2"	8/2	1'-1"		93'-2%'	¾ ,		6						1 4'8% 1 4'8%			4/6	¾€,	4/8"	1/16'	44/16.
	8	_		4500		3	', 	', 			716	8/2"	8/2'	1'-1'		93'-2 % *		44	6						1 1'-8%			4/0	7/6	4/8		4716
	9	_	-	4500		3	1				9/16	8/2*	81/2*	1'-1'	1'-1"	93'-2%	*								1 4'8%				%6°	4/4	17/16"	47/16

WORK THIS SHEET WITH SHEETS C-82 & C-83.

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≱						REV	ISIONS							NAME	DATE
ü	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DR. BY	HNG	1/94
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Engineers. Architects and Planners BOARD OF COUNTY COMMISSIONERS
LEE COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

NIDPOINT BRIDGE PRESTRESSED BEANS AASHTO TYPE N TABLE OF BEAN VARIABLES (2)

PROJECT NO SHEET NO 5896 *C-8*6

BX1-98

	rke, ar verderline somes om		August and Marie and August and A	- Annual State of the Control of the		alema unumaner bener here te			TABLE OF BEAN VAR	ABLES	5			***************************************	J-10-10-10-10-10-10-10-10-10-10-10-10-10-						R	EINFORG	ING ST	EEL V	NIABL	ES		BUILD	UP AND	DEFLECT	DN DATA	
SPAN	BEAN		COMCRETE PAC	PERTIES	STND	PLAN	PLAN	END			END OF	BEAN AN	о отнечения и полицен вы D		BEA		MO. 0	of space	S FOR	STIRAUP		A	ĸ,	KE		KJ			D THEORE		DEFLECTION	
MO.	io.	CLASS	Company of the second	NGTHS 120-DAY (FW	PTRN		CASE (AH	ELEV	NIGLE 0	NW P	DEARING (NYS H) DIN K (B)	DIN K (AH	DINENS	-	_	RAPUP BA	AS K	DIM V	LENOTH	LENOTH	н	LENGTH	H	ЦЕНОТН	NO. RED'D.	BUILDUI BEGIN SPAN	COVER &		DURING POUR	CAMBER
	,	N	1500	5500	3	/	1	J	90' 00' 00'	737 .	8/2	11/9	1.4	11	93'4	X	+4	6	16	1.0/2	93'-5'	15'-0'	4'9X'	6.4	1.0%	6'.5"	35	1/4	%s*	1/4	1//16*	14/16
1	2	N N	4500	5500 5500	J	<u></u>	 ;	<u> </u>	30, 00, 00, 30, 00, 00,	1/2	8/2	11/2	1.7	1.7	93'4'	 	44	6	16	1.0/2	93'-5'	15'-0'	1.3%	6'4"	1'8X'	6'-3"	35 35	13:	1 76	-%-	1/16	17/16' 17/16'
	1	N	4500	5500	3			3	90, 00, 00,	1%:	8/2	11/4	1'-1"	1.1	93.4	X.	11	6	16	10/2	93'-5"	15'-0"	4'-9X'	6' -1 '	1'84	6'-3"	35	1/2	<i>X</i> ₆ .	1/9	1/14	4/15
J	5	VS N	1500	5500	2	 ',		3	30, 00, 00,	13/10	8/2	11/4	1.6	1'1	93'4'	*	#	6	16	1.0/2	93'-5'	15'-0'	1.9%	6'-1'	1'8X'	6'-3"	35 35	1/4	- %e* -	- *	1/16	5°
	7	N	4500	5500	3			3	30, 00, 00,	13/10	8/2	1/4	1'-1"	11	93'-	X.	44	6	16	1-0/2	95'-5"	15'-0"	1'9%	6'4'	1'8%.	6'-3"	35	1/4	Y/6"	1/4	il.	1/16
	8	N	4500 4500	5500 5500	3	;		<u>J</u>	30, 00, 00, 30, 00, 00,	13/16	8/2	71/4"	1.4	14	93'4	<u>*</u>	11	6	16	1.0/2	93'-5"	15'-0"	1.9%	6' -1 '	1'8X	6'-3"	35 35	1/2:	%s*	1/4:	1/16	47/16.
	7	N	4500	5500	3	',	', -	2	30, 00, 00,	19/10	11/4	8/2	11	1.4	93'-6	<u> </u>	44	6	16	10/2	93'-5'	15'-0'	4'-10'	6'-1'	1.0%	6'-5"	35	+%'	₩°	+%.	1/16	17/15
1	2.	N	4500	5500	J			2	90, 00, 00,	17/16	7/4	8/2	1'-f'	1'4	93' 4' 93' 4'	¥:	++	6	16	1-0/2	93'-5'	15'-0'	1'-10'	64	1'8X'	6'-3"	35 35	- <i>11</i> ;	Xe. Xe.	4/4	1/16	17/16
	1	N N	1500	5500 5500	3			2	30, 00, 00, 30, 00, 00,	11/16	11/4:	8/2	17	14	93.4	₹.	44	6	16	1.0/2	93.5	15'-0"	4'10'	6'4'	104	6'-3"	35	4/4	¾°.	1/4	1/16.	44/15
55	5	VS	4800	6000	2	/	'	2	90, 00, 00,	%·	71/4	8/2	1'-1'	1'-1'	93'4'	¥:	44	6	16	1'-0/2	93'-5'	15'-0'	1'-10'	6'-1'	1.0%		35 35	4/3	₩ ₆ *	4/2	1/16	5*
	7	N	1500	5500	3			2	30, 00, 00,	1/2	71/4	8/2	14	14	93'-1'	12-	11	6	16	1-0/2	93'-5"	15'-0'	1'-10"	6'-1'	1' 0 X		35	1/2.	0	77.	1/16	17/16"
	8	N	4500	5500	3	1	,	2	90' 00' 00'	//z //15	1/4	8/2	1.4	14	93'-1	¥.	+4	6	16	1.0/2	93'-5"	15'-0"	4'-10'	6'4	4'-8X		35	4/6	0	1/6	1/16	1/16
-	9	N N	4500 4500	5500 5500	J J	1	' '	2	30, 00, 00, 30, 00, 00,	1/2	8/2	8/2	1'-1"	1'-1'	93'-2%*	₩ .	11	6	16	1-0/2	93'-5"	15'-0'	1'-10"		1'-8X'	6'-3"	35 35	4/4°	₩.	3/4	1/16	47/16
	2	N	4500	5500	3	- ;	<i>i</i>	2	90° 00° 00°	1/2.	81/2"	8/2	1'-1'	1'-1'	93'-2%	×.	44	6	16	1.1%	93'-7%	15'-0'	1'-9'	6'-3"	4'-8X'	6'-3"	35	37/16	***	3/4	1/16"	14/16
	3	N	4500 4500	5500	J		<u>'</u>	2	90° 00° 00°	%.	8//2	8/2	1.4	11	93'-2%'	¥.	44	6	16 16	1.4%	93'-7 % 93'-7 %		4'-10"		1'-8 4'	6'-3"	35 35	37/16	₩. ,	3%	1/16	1/15
56	5	VS	4800	5500 6000	2	- '	'	2	30 00' 00'	¥.	8/2	8/2	14	17	33,-5%,	*	44	6	16	1-1%	95'-7%		1.10		1.0%		35	4/2	¥6°	4/16	1/16	5*
1	6	N	4500	5500	3		1	2	90' 00' 00'	7/16"	8/2	8/2	1'-1"	1'-1'	93'-2%	¥.	44	6	16		93'-7 % ' 93'-7 %		4'-10"		1.8%	6'-3"	35 35	4/6:	//s*	4/16'	1/16*	4-1/16"
	8	N N	4500 4500	5500 5500	3 3	', '	 ', 	2	80, 00, 00, 80, 00, 00,	7/6	8/2	8/2	1'-1'	14	93'-2%'	**	44	6	16	1.4%	93'-7%		1.10		1'-8%		35	4/0	7/6 7/6	4/15	17/16	47/15"
	9	N	4500	5500	3	,	1	2	90, 00, 00,	1/15	8/2	8//2	1'-1'	1'-1'	93'-2%	*	44	6	16	14%	- 4	15'-0"	4'-10'		10%		35	4%	₹6*	4/16'	1/16"	47/16
1	2	N	4500 4500	5500 5500	3	3	2	2	89° 59′ 57′ 89° 55′ 56° 89° 55′ 56°	/K	8/2	71/4	14	14	93'-0%	*·	#	6	16	1.0%	93'-5/ ₂ 95'-5-7	15'-0°	1'-10"	64	4.5	6'-3"	35 35	+%*.	*	1716 - 1X6"	1/16	47/6
]	3	N N	4500	5500	3	3	2	2	89' 59' 57' 89' 55' 56'	1/4	8/2	71/4	1'-1"	1'-1'	93'-0%'	X.	44	6	16	1-0/4	93'-5%	15'-O'	4'-10"	6'-1'	4'-9'	6'-3"	35	+%6*	*	+%	1/16	47/16"
67	5	N VS	4800	5500 6000	2	3	2	2	89° 59′ 57′ 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 89° 55′ 56° 80° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5	//s*	8/2	71/4"	1'4	1'-1"	93'-f'	**·	44	6	16 16	1'-1'	93'-6"	15'-0'	1'-10'	64	4'-5'	6'-3"	35 35	+%g*	* * ·	4%	1/16	4½6°
] "	6	N	4500	5500	3	3	2	1	89° 59′ 57′ 89′ 55′ 56°	0	8/2"	71/4"	1'-1"	14	93'-1/4'	₹.	44	6	16		93'-6/4	15'-0"	4'-10"	64	1'-9'	6'-3"	35	4%6	*.	4¾°	1/15	4/15
	7	N	4500	5500	3	3	2	3	89° 59′ 57° 89′ 55′ /56°	1/16	8/2	71/4"	1'-1'	14	93'+//4"	*.	44	6	16 16		93'-6/4 93'-6/5	15'-0' 15'-0'	4'-10'	6'A'	1'-9'		35 35	+%6*	*,	+%·	1/16"	44/16"
ļ	9	N N	4500 4500	5500 5500	3	3	2	3	89' 59' 57' 89' 55' 56' 89' 55' 56'	7/4	8/2	71/4"	14	14	33.4%	¾ .	44	6	16			15'-0"	4'-10'	64	4-9		35	4%.	₹.	4/2"	1/16'	44/16
	1	N	4300	5500	1	3	2	2	<i>88</i> ° 35′ <i>29</i> °	1/16	71/4"	8/2	1.4	1'-1'	91-3/4	X	41	6	15		91'-8/4"		4'-9/4"		1'-9/4'		33	3%	1/2.	374.	1%·	3/3/16"
	3	N	4500 4500	5500 5500	3	3	2	2	88' 35' 29' 88' 35' 29'	//s.	71/4	8/2	1'-1'	1'-1"	91'-81/2"	*.	44	6	16 16	7%	92'-1/2"	15'-0°	4'-10"	6'4' 6'4'	1'-9/4'		34	4/8°	1/2	4/4"	1%.	4%·
ĺ	1	N	4500	5500	3	3	2	2	88' 35' 29'	1/15	71/4"	8/2	1.1	1'4	92'-71/2"	ж.	44	6	16	-74	93'-0/2"	15'-O*	4'-10"	6'4	1-9/4	6'-3 "	35	4/16	1/2.	4/4	1/16	4¾°
58	<u>5</u>	VS N	4800 4600	5500	2	3	2	3	88° 35' 29' 88° 35' 29'	0 //x°	71/4"	8/2	1'-1'	14	93'- 6 /2"	*.	44	6	16 17	37/4	93'-6'	15'-0' 15'-0'	1'-10' 1'-10'		1'-9/4 1'-9/4		35 36	4/15	%·	4/16	1/16"	43/16
	7	N	4600	5500	,	3	2	3	88° 35' 29'	Yıs."	71/4"	8/2	1'-1"	1'-1"	94'-0'	X	44	6	17	6/2	94'-5"	15'-O'	4'-10'	6'-1'	4'-9/4"	6'-3"	36	4/16	1/2"	4/4"	1/2'	5*
	8	vs vs	#600 #600	6000 6000	1	3	2	3	88° 35' 29'	<i>'</i> '.	71/4"	8/2"	1'-1'	1'-1"	94'-5/4"	*.	44	6	77	- / -	94'+0/ ₄ 95'-3 ' 4'	15'-0'	1'-10'		4'-9/4		<i>37</i>	315/16°	1/2.	4/16"	1/2"	4/8*
<u> </u>	1	N	1300	5500	4	3	2	1	88 35 29 88 35 29	% 6°	8/2	8/2'	1'-1"	1'-1"	91-4/2"	₹.	44	6	15		91'-9/2"		4.9/2'	6'-3"	1'-9/4'	-	33	31/16'	%6°	3"/16"	1%'	315/16"
	2	N/	4500 4500	5500 5500	3	3	2	1	88' 35' 29'	0	8//2*	8/2	1'-1"	1'-1'	919%	*	44	6	16			15'-0'	1'-10' 1'-10'	6'-4'	1'-9/4' 1'-9/4'		34	4/4	%s*	4/4'	1%,	+%,
1	4	N	4500	5500	3	3	2	 ', 	88° 35' 29°	0	8/2"	8/2"	1'-1'	1'-1"	92'-3'/4" 92'-8'/4"	X.	44	6	16 16	, ,	92'-8/4 ' 93'+ %			6'-4'			35	4/4	1/6	4/4°	P/16"	+1/4*
59	5	vs	4800	6000	٤	3	2	1	88° 35' 29°	0	8/2	8/2	1'-1"	1'-1"	93'-2/4"	*	44	6	16	1'+%*	93'-7'/4"	15'-0"		6'4'			35	4/2	%6	4/2°	1/16	5' 45/16'
	7	N	4600 4600	5500 5500	1	3 3	2	1	88' 35' 29' 88' 35' 29'	0	8/2"	8/2"	1.4	1'-1'	93'7%		44	6	17	71/4"	94'-0% 94'- 6 /4'	15'-0"	4-10	64	1-9/4	6'-3"	36 36	+%'	%6°	+%*	1/2'	5°
	8	vs	4600	6000	1	3	2	1	88° 35' 29°	0	8/2	8/2"	1-1	1'-1"	94'-6/2"	*.	44	6	77	9%	94'11/2"	15'-O'	4'-10"	64	1-9/4	6'-3"	37	4/4	%*	4/4"	1/2	4/5
	9	VS	4600	5500	1	3	2	1	88' 35' 29' 88' 35' 29'	0	8/2*	8/2*	1.4	1'-1"	95'-0' 91'-3/4'		44	6		1'-0/2"	95'-5"	15'-0'		6'-4'			<i>37</i>	4/16°	3/16°	4%6°	17/16"	315/15
	2	N	4300 4500	5500	3	3	2	+	88 35 25 88 35' 29'	0	8/2	71/4"	1'-1"	1'-1"	91-3/4		44	6	<i>1</i> 5	+%*	92'4/2"	15'-O'	4'-10'	64	1-9/4	6'-3*	34	4/4"	%5"	4/4"	1%	+%
	3	N	4500	5500	3	3	2	/	88" 35' 29'	0	8/2	71/4	í-f	1'-1'	92'-2"	₩.	44	6	16	71/2"				6'-1'			34	4/4"	%°°	4/4	17/15'	+%*
60	5	VS VS	4500 4800	5500 6000	3 2	3	2	'	88' 35' 29' 88' 35' 29'	0	8/2	71/4"	1'-1"	1'-1"	92'-7\/2° 93'-1'	¾. ¾.	44	6 6	16 16	11-1"	93'-0/ ₂ "			64			35 35	4/2'	716	4/2	1/16	5*
	6	N	4600	5500	1	3	2	1	88° 35' 29°	0	8/2	71/4	I'-f"	1'-1"	93'-6/2"	₩.	44	6	77	3%	93'-11/2"	<i>15'-0</i> '	1'-10°	64	1-9/4	6'-3"	36	4%'	9/16°	+%*		44/16"
	8	N VS	4600 4600	5500 6000	1	3	2	,	88' 35' 29' 88' 35' 29'	0	8/2	71/4	1'-1' 1'-1'	1'-1°	94'-0' 94'-5/4"	¾.	44	6	<i>I7</i>		94'-5'			6'-4'			<i>36</i>	+%'	%6"	4%	1/2'	5°
	9	VS	4600	6000	'	3	2	,	88° 35° 29°	0	8/2"	71/4"	14	14	94'-5/4		44	6	77	117/8"				6.4			37	47/6"	9/16*	4/16	P/16*	4/8*
				•	•																											

WORK THIS SHEET WITH SHEETS C-82 & C-83.

REVISIONS DR. BY HNG 1/94
CHX. BY CFC 1/94
SUPV. REJ 1/94
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Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

NIDPOINT BRIDGE
PRESTRESSED BEAMS AASHTO TYPE N
TABLE OF BEAM VARIABLES (3)

PLOTTED: 27.JAN95-10.47.20

PROJECT NO. SHEET NO 96 C-87

BX1-99

				589
FLECT	ON DATA	·····]	
ICAL EAN ID SPAN	DEAD LOAD DEFLECTION DURING POUR (DIM. A)	BEAN CANBER		
3//n°	AN'	J'46"		
4/4	13.	校.		
1/2	1/16	4½°		
4%,	1/16	4*/ ₁₆ *		
4/3	1/2'	4/4		
3%a*	13.	3/3/10		•
+%s	136	+2.		
7/0	1/16	774		

									TABLE (OF BEA	W VA	RIABLES											REINF	ORCING	STEE	L VAR	ABLES		ВИЦДИ	P AND	DEFLECT	ION DATA	
SPA			WCRETE PRO	PERTIES MOTHS	STND	PLAN VIEW	PLAN	ENO ELEV				OF BEAM				BEA			SPACE		STIRRUP DIN.	-	A	Æ,	K2		K3		REQUIRED BUILDUP		ETICAL	DEAD LOAD DEFLECTION DURING POUR	BEAN
MO.	Ю.	CLASS	And in case of the Local District Control Dist			CASE (BK)			ANGLE 0					K (AK)	DIN K (AH)		DIN A		SE	3 7	DIN V	LENGTH	HTBICEL	H	LENGTH	н	LENGTH	MO. RETO'D	BEGW SPAN		FIN SPAN	IDINI. A	CAMBER
	17	N	4300	5500	4	3	2	1	88 35 29	0	7/2		%·	1.7	14	91.3%	- X-	44	6	/5		Q'-#/2	15'-0'	1.9/2	6'-3'	4.9/4	6.3	33	7//	1	31/16°	AK.	33/16
	2	N	4500	5500	3	3	2	1	88' 35' 29'	T o	7/2	. 8	%	11	14	9/-0/2	V-	44	6	16	42	92 1/2	15'-0"	1'10'	6'-1		6'-3"	34	1/2		1/2	13.	+2
	3	N	4500	5500	3	J	2	7	88' 35' 25'	0	71/2	0	3'	74	14	92 2	X.	44	6	16	17/	92'-7"	15'-0'	4'10'	6'-1	Commence for the con-	6-5	34	4/20	7/a*	4/4	13.	4%.
1	4	N	4500	5500	3	3	2	1	88' 35' 25'	0	7%	. 0	3'	14	14	98.7%	*	44	5	16	10/2	93'-0%	15'-0"	4'-10'	6'-1		6'-3"	35	1/2	%a*	4/0	1/16	4%
6/	5	VS	4800	6000	2	3	2	1	88' 35' 29"	0	7%	. 8	8,	14	i'+i	95'4	*	44	6	16	11	93'6	15'-0'	4'+0"	64	4-9/1	6'-5"	35	1/2"	Xa.	1/2	1/16	5°
	6	N	4600	5500	7	3	2	1	85' 35' 25'	0	7%	, 8	%·	1-1	14	93'-6/2"	*	44	6	17	3%	93'-11/2	15'-0"	4'10"	6'-1	4.9/4	6-5	36	+%.	1/4°	+%*	1/16	1/10
1	7	N	4600	5500	1	3	٤	1	88' 35' 29'	0	7/	, 0	<i>k</i> '	14	1-10	94'-0'	*	44	6	17	6/2"	94'-5"	15'-0'	4'+0'	6'-4"	4-9/4	6'-5"	.36	+%.	%°	+%*	1/2.	5°
	8	V5	4600	6000	1	3	2	1	88" 35" 29"	0	7/	8	/2'	14	14	94'-5/4"	*	44	6	n	9/0'	94-10/4	15'-0"	4'-10'	6'-1	1-9/4	6'-5"	37	4/9	1/18	4/4	1/2'	4//5
	9	VS	4600	6000	1	J	2	1	88" 35" 29"	0	7/4	* 8	4.	14	1-1	94.40%	*.	44	6	17	11//0"	95'-3%	15'-0°	4'-10"	6'-4	4-5/4	6'-3"	37	4/14"	%e*	4/15"	F//rg*	1/2
		N	4300	5500	4	3	2	1	88' 35' 29'	0	8/	. 8	/2°	14	14	91.4/2	*	44	6	/5	1-24	91.4/2	15'-0"	4'-9/2"	5'-5	4-9/4	6'-5"	73	3%	%e*	5%s°	1%	313/100
	2	N	4500	5500	3	3	2	1	88" 35" 29"	0	8/2	. 8		1'-1"	1'-1"	9/-9%,	X.	44	6	16	5%	92-2%	15'-0"	1'-9%'	6'-₽	4-9/4	6'-3"	34	+%*	%s*	4%5	1%"	4%.
		N	4500	5500	3	3	2	1	88 35' 29'	0	8/2	. 8		14	14	92'-3/4"	*.	44	6	16	8/6	92'-8/4	15'-0°	4.3%	6'-1'	4-9/4	6'-3'	35	4%,	%g*	4/16"	136	+%.
	4	N	4500	5500	3	3	2	1	88 35 29	0	8/2	. 8		1.40	1'-1"	92'-8%"	*	44	6	16	10//2	93'+%	15°-0°	1'-9%'	6'-4"	4-9/4	6'-3"	35	4/6	%s*	4/9"	1/16"	+%
62	5	VS	4800	6000	2	3	2	/	88" 35' 29"	0	8/2			14	14	932/4	**	44	6	16	1'-1%	93'-7'/4"			6'-4"	4-9/4	6'-3"	35	+%'	%s*	4%*	11/16'	5°
	6	N	4600	5500		3	2	/	88' 35' 29'	0	8/2		4	14	14	93'-7%"	X.	44	6	- 77	4%	94'-0%		4-9%	6'-1	19/4	6'-5"	36	4/4'	7/6	4/4	1/16"	13/16
J	7	N	4600	5500		3	٤	/	88" 35" 29"	0	8/2			14	11	94'4/4"	*	44	6		7/9	91'-6/4		4'-9%	6'-1	1-5/4	6'-3"	36	4/4"	%e*	4/4"	1/2"	5
	8	VS	4600	6000		3	2		88" 35" 29"	0	8/2			1.4	1'-1"	94'-6/2"	*.	44	6	77	9%	94-11/2	15'-0"	4-9%	5'-1	1-9/4	6'-3'	37	4%9"	%e*	4//48"	1/2	4%
	9	VS	4600	6000	-/- 	3	2	<u>'</u>	88' 35' 29'	0	8/2			1.40	14	95'-0'	<u> X</u>	44	6		1.0%	95'-5"	15'-0"		6'-4	4-9/4	6-5	37	4/9	7/18	4/4	1/16"	1//
	<u> </u>	N	4300	5500	1	3	2	2	88' 35' 29'	LX.	8/2	- 7		14	1'-2"	91-2/2"	_ *_	44	6	/5	1'+%'	917/2"	15'-0'		6'-3"		6'-3"	33	3"/ _M "	7/6	31/16	1-76	3/5/16"
	2	N	4500	5500	3	3	2	2	88" 35' 29"	<u>*</u> /6	8/3	,		14	1-2"	91.7%	<u> X.</u>	- 44	- 6	16	4%	32'-0X					6'-3"	34	4/9	%s*	4/4	/ %	4%
	3	N	4500	5500	- 3	3	2	2	88' 35' 29'	%s*	8/2	* r/		1-1	1-2	92 1/4	<u> X.</u>	44	6	<u> 16</u>	71/0	92'6/4					6'-3"	34	4/4	7/6	4/4	13.	4%
١.,	1	N	4500	5500	3	3	2	2	88' 35' 29'	7/6	8/2	' 7		14	1-2	92' 6 %'	<u> </u>	44	6	16	9/4	92'11%					6'-3"	35	4/4	7/6	4/4	1/16'	+%.
63	5	vs	4800	6000	2	3	2	2	88' 35' 29'	- % <u>-</u>	8/2	· 7/		14	1-2'	93'0/4'	<u>*</u>	44	- 6	/6	1'-0%	33' <i>-9/</i> 4	20.000				6-3	35	4/3	7/6	4/2	17/15	5'
1	6	N	4600	5500		3	2	2	88' 35' 29'	<i>?/</i> 6		: 7		14	1'-2'	93'-5%'		44	- 6		37,	93'-10K			6'-1		6'-3"	36	4%	%s*	+%	1/16'	44/16"
		105	4600	5500	-: -	3	2	2	88' 35' 29'	76	8/2	· 7/		1-10	1-20	93'41/4"	<u>*</u>	44	- 6		6%	94-4/4						36	-₩ '	7/6	+%	<i>'</i> /3'	5'
	8	VS	4600 4600	6000	', +	2	2	2	88' 35' 29'	7%	8/3	- 6		<i>r-e</i>	1-2"	94.4/3"	_ * _	44	5		0%	91-9/2					6-5	37	1/2	7/6	4/4	1/3.	4//9
L	9	vs	7000	6000			Z		88' 35' 29'	* <u> </u>	8/2	17/	5	i-f	1-2"	94'+10"	为 "	44	- 6	17	11/2	95'-3"	15'-0°	4'-10"	64	4-5/4"	6-3"	37	4%6"	716"	4%6*	Phs"	4/8*

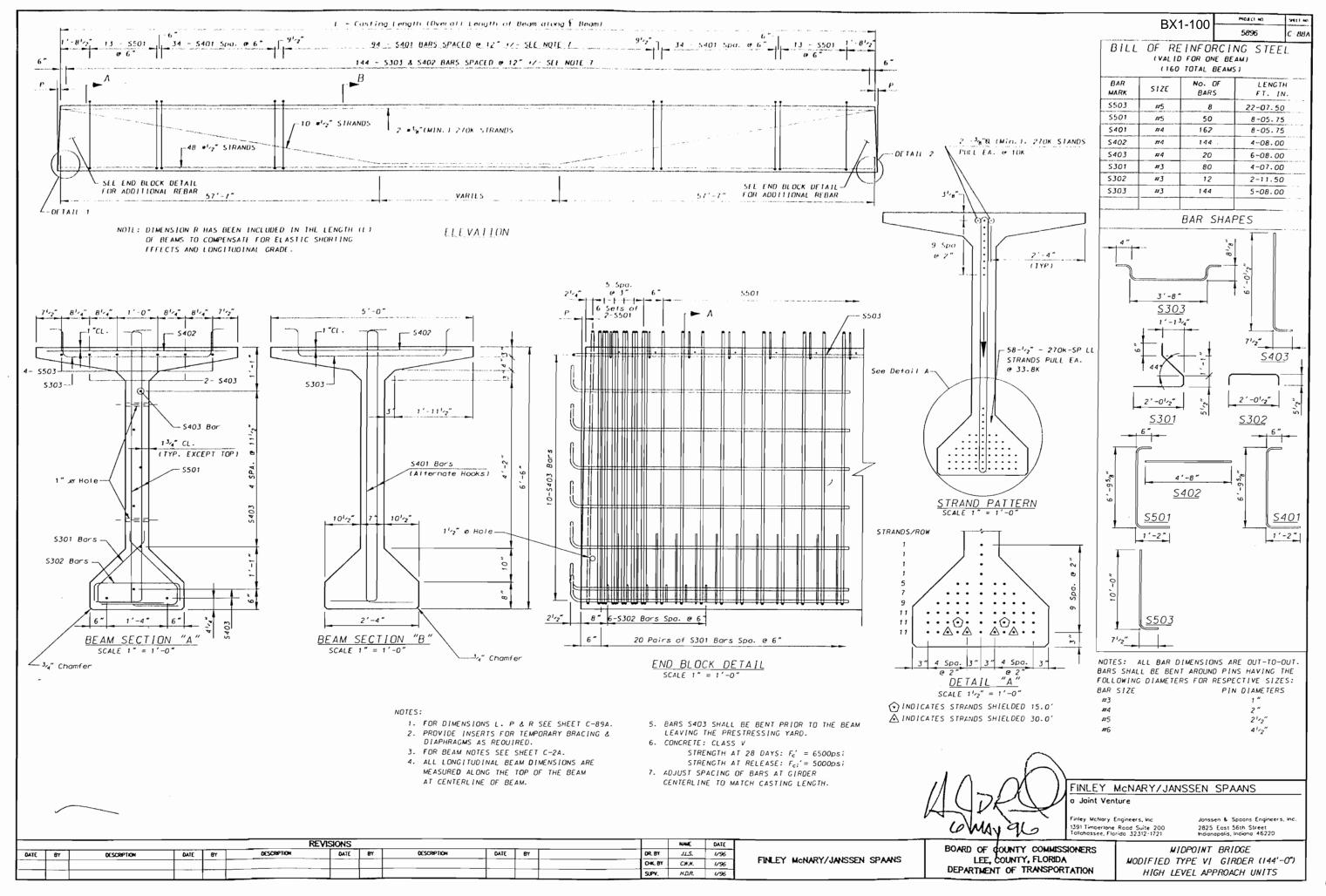
WORK THIS SHEET WITH SHEETS C-82 & C-83.

REVISIONS DR. BY HMG 1/94
CHK. BY CFC 1/94
SUPV. REJ 1/94
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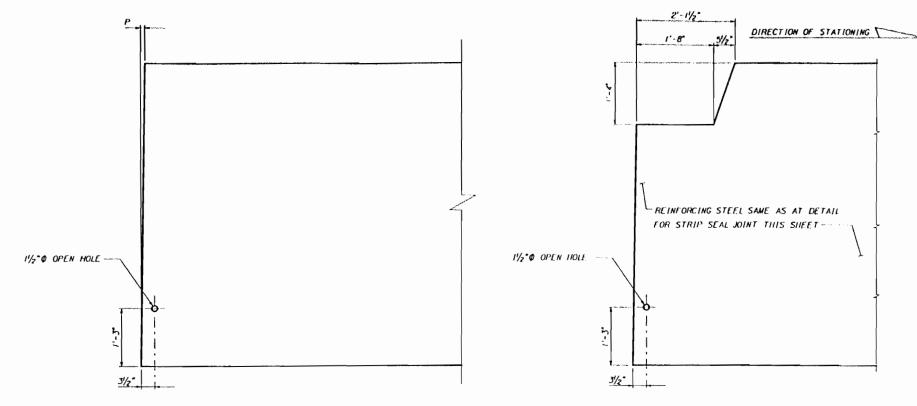
BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

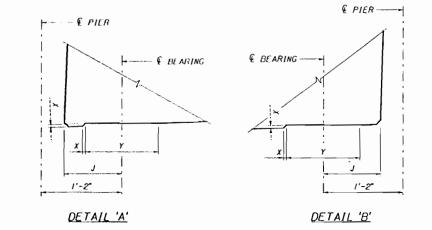
MIDPOINT BRIDGE PRESTRESSED BEAMS AASHTO TYPE N TABLE OF BEAM VARIABLES (4)



молет но эчет но 5896 С-89A

BX1-101





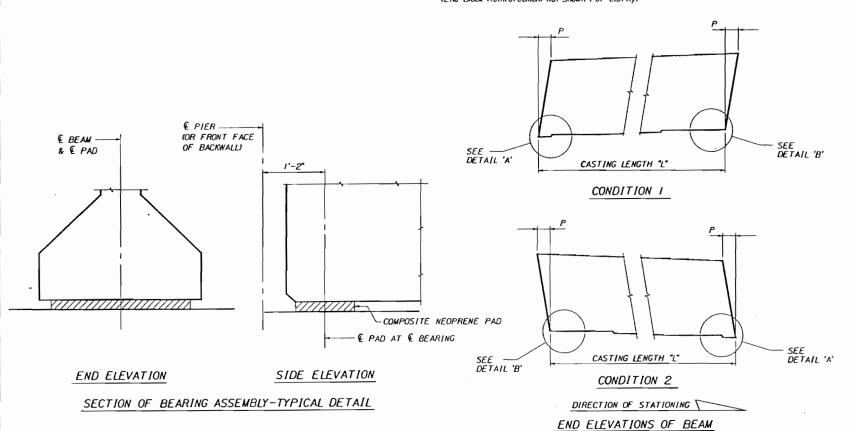
AT PIERS 33 THRU 41 AND 46 THRU 54

AT PIER 45 (42 Opposite Hand)

DETAILS AT END OF BEAM

(End Block Reinforcement Not Shown For Clarity)

(SHOWING VERTICAL BEVEL OF BEAM END)



			MODII	TLU	TYPE V	1 GIM					
SPAN NO.	END	S	TART E	ND (LEF	T)	F	INISH EN	ID (R]GE	HT)		CASTING
SPAR NO.	CONDITION	~	7P*	"x"	γ.	~y~	*P*	"X"	γ-	"R"	LENGTH
32	1	9/2"	2/4"	 %⁼	1'-0%"	10"	11/8"	0	1'-0%"	1%"	144'-17/8"
33	1	10"	21/4"	1/2"	1'-0%"	10"	1%"	1/4"	1'-0%"	14/16 "	144'-27/4"
34	1	10"	3"	1/2"	1'-0%"	9/2"	17/8*	1/4"	1'-0%"	113/16 "	144'-23/8"
35	1	9/2"	3"	1/2"	1'-0%"	10"	11/8"	1/4"	1'-0%"	113/16 "	144'-27/8"
36	1	10"	3"	1/2"	1'-0%"	10"	17/8"	1/4"	1'-0%"	14/6 -	144'-27/8"
37	1	10"	3*	1/2"	1'-0%"	9/2"	17/8"	1/4"	1'-0%"	113/16	144'-27/8"
38	1	9/2"	3"	1/2"	1'-05/8"	10"	17/8"	1/4"	1'-0%"	113/16 -	144'-2%
39	1	10"	3*	1/2"	1'-0%"	10"	11//8"	1/4"	1'-0%"	117/16	144'-27/8"
40	1.	10"	27/8"	1/2"	1'-0%"	10"	13%"	1/4"	1'-0%"	113/16	144'-27/4"
41	1	10"	2 %	% *	1'-0%"	9/2"	11/4"	1/4"	1'-0%*	11/16 "	144'-2"
45	2	9/2*	11/8"	1/4"	1'-0%"	10"	2/4"	% *	1'-0%"	17/16"	144'-2"
46	2	10"	1%"	1/4"	1'-0%"	10"	27/8"	1/2"	1'-0%"	134"	144'-23/4"
47	2	10"	17/8"	1/4"	1'-0%"	10"	3"	1/2"	1'-0%"	113/16 "	144'-27/8"
48	2	10"	17/8"	1/4"	1'-0%"	9/2"	3"	1/2"	1'-0%*	113/6 "	144'-2\%
49	2	9/2"	17/8"	1/4"	1'-0%"	10"	3"	1/2"	1'-0%"	113/16 "	144'-27/8"
50	2	10"	17/8"	1/4"	1'-0%"	10"	3*	1/2"	1'-05%"	117/16	144'-21/8"
51	2	10"	17/8"	1/4"	1'-0%"	9/2"	3*	1/2"	1'-0%"	113/16 "	144'-278"
52	2	9/2"	17/8"	1/4"	1'-0%"	10	3"	1/2"	1'-0%"	113/6 "	144'-27/8"
53	2	10"	15%"	1/4"	1'-0%"	10"	23/4"	1/2"	1'-0%"	1"/16"	144'-23/4"
54	2	10"	/"	0	1'-0%"	9/2"	2/8"	¾ *	1'-0%"	15/16"	144'-17/8"

WIND OF

FINLEY McNARY/JANSSEN SPAANS

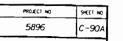
Joint Venture

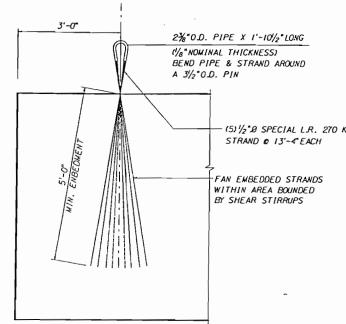
Finley McNory Engineers, Inc 1391 Timberlane Rood Suite 200 Tallahassee, Florida 32312-1721 Jonssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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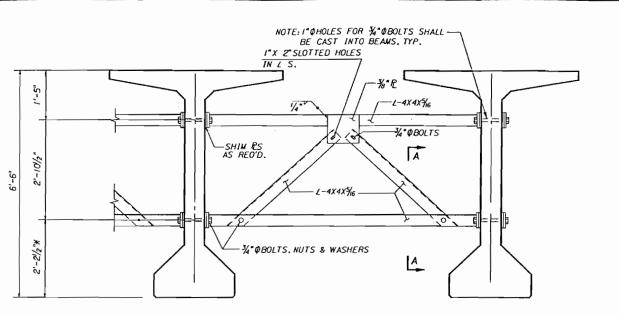
MIDPOINT BRIDGE MODIFIED TYPE ∑T GIRDER DETAILS (I)





(5) 1/2 "A SPECIAL L.R. 270 K

DETAIL 'A'



6x6x5/6 ₽ VIEW A-A

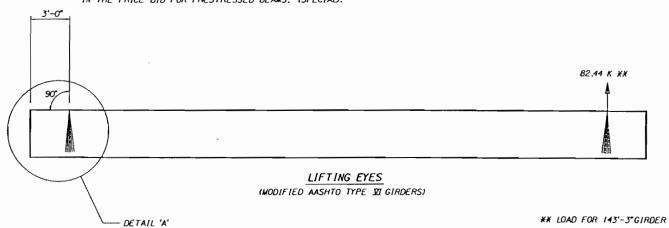
LONG-SLOTTED HOLE-

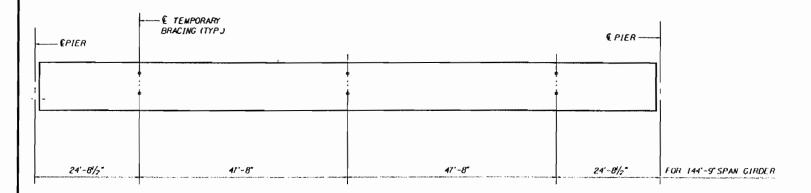
*ADJUST THIS DIMENSION ON A BEAM BASIS TO AVOID INTERFERENCE WITH DRAPED STRANDS.

AT TYPICAL SECTION

SECTION SHOWING TEMPORARY BRACING (TYPICAL FOR APPROACH UNITS)

NOTE: PAYMENT FOR TEMPORARY BRACINGS TO BE INCLUDED IN THE PRICE BID FOR PRESTRESSED BEAMS. (SPECIAL).





ELEVATION (APPROACH SPAN BEAMS)

6 MAS

INLEY MCNARY/JANSSEN SPAANS

o Joint Venture

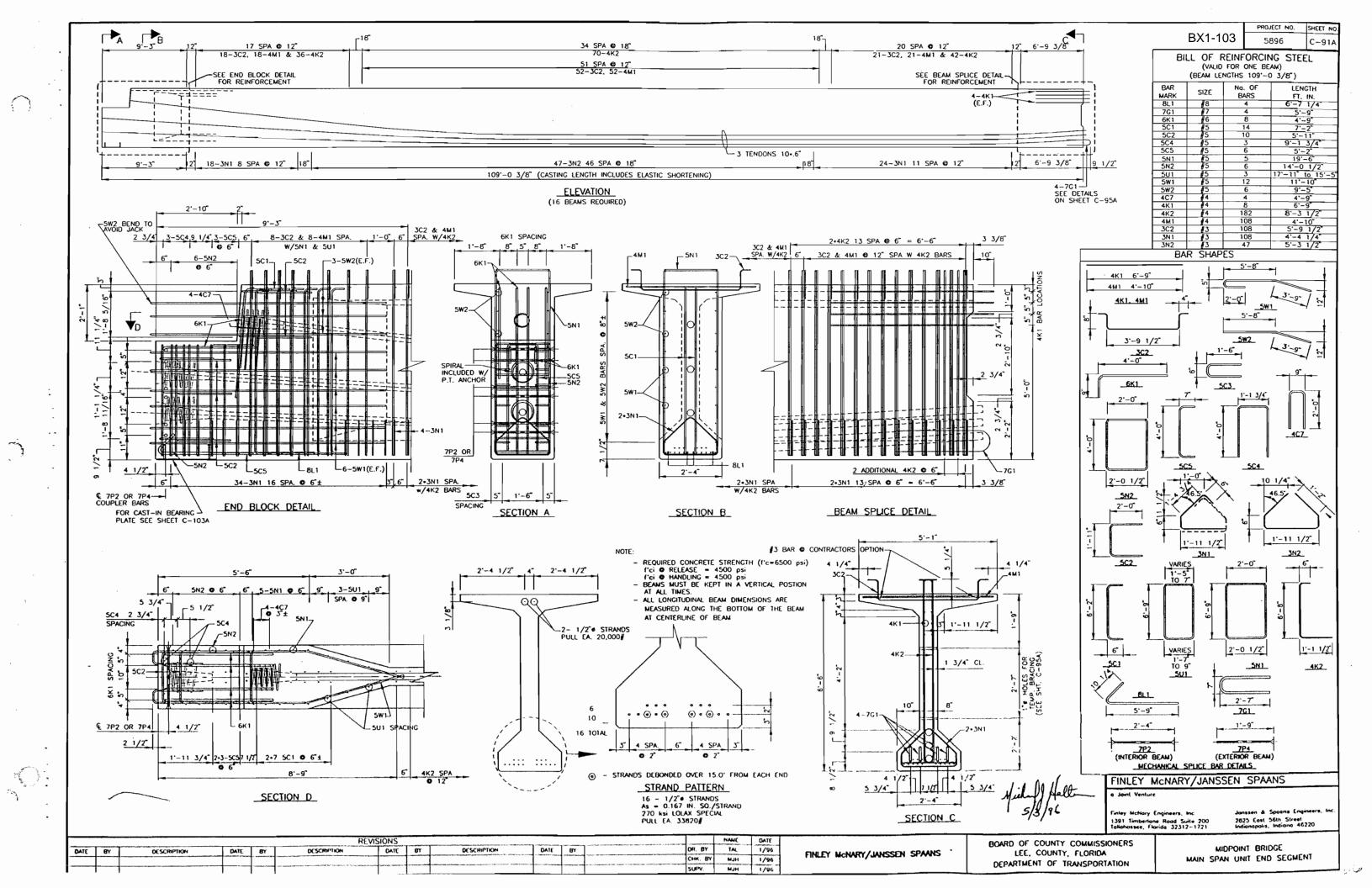
Finley McNory (ngineers, Irc 1391 Limbertone Road Suite 200 Tellahussee, Florida 37317 - 721 Johann & Spoons Engineers, Inc. 2825 East 56th Street Indignapolis, Indiana 46220

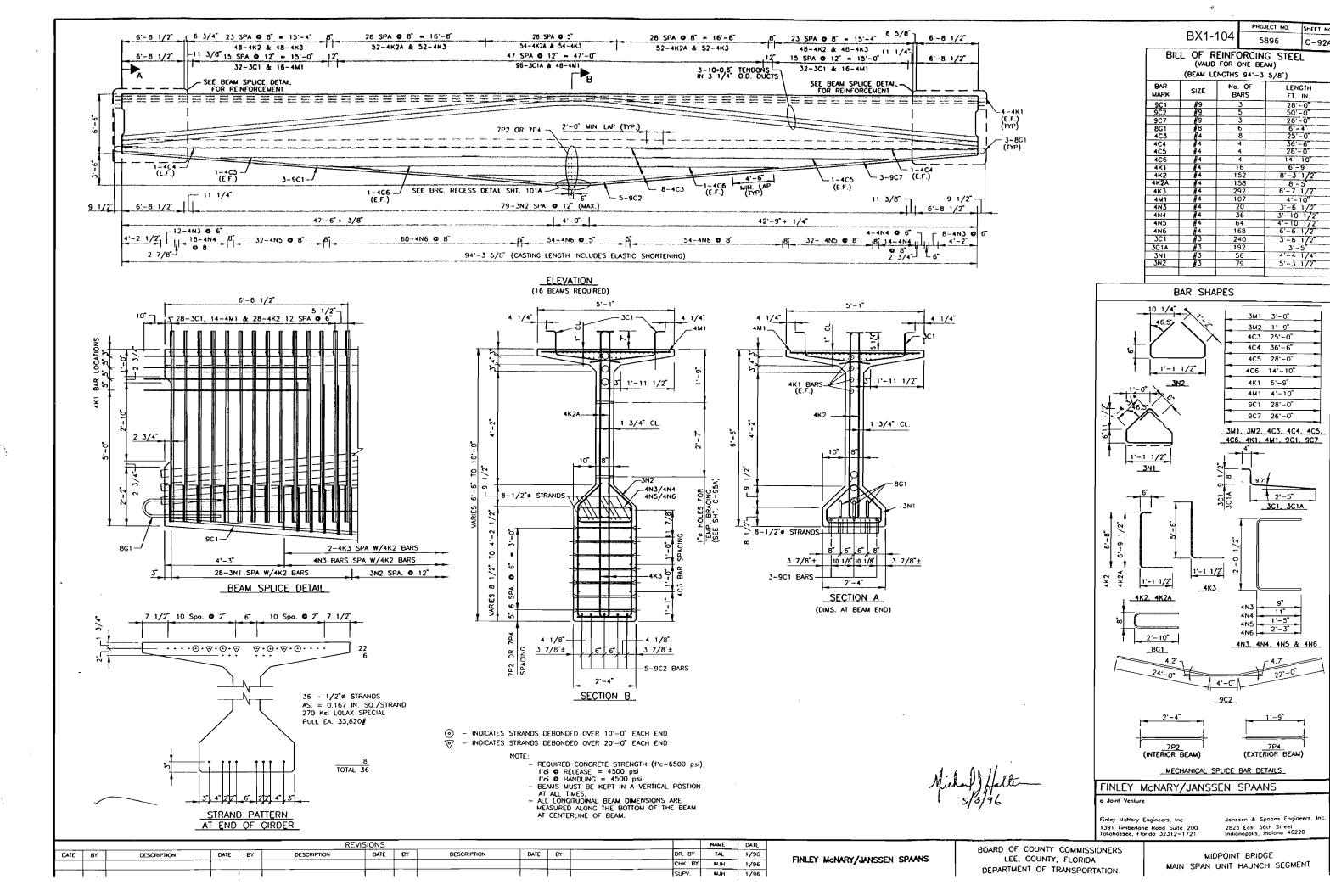
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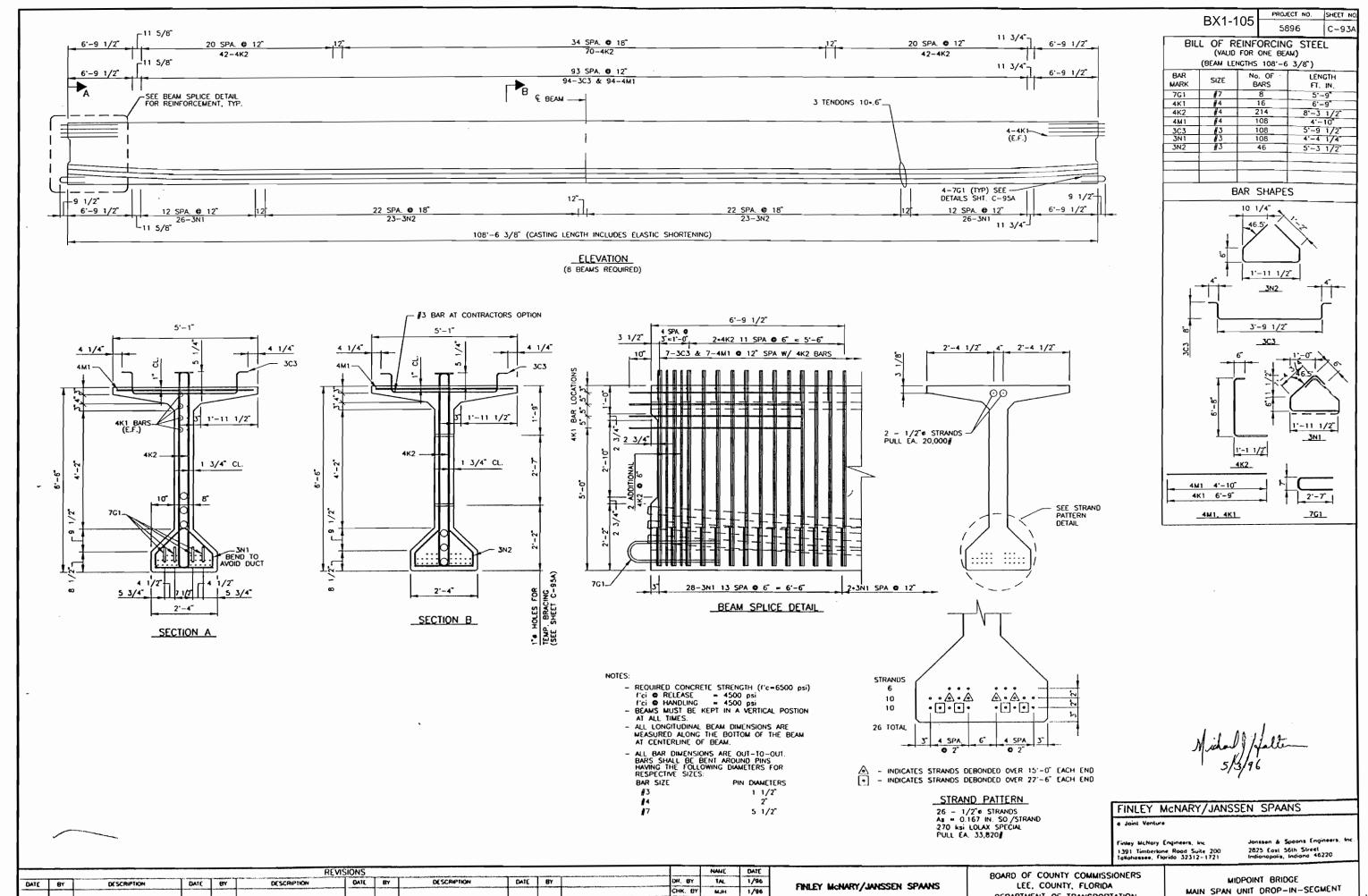
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MIDPOINT BRIDGE MODIFIED TYPE IT GIRDER DETAILS (2)





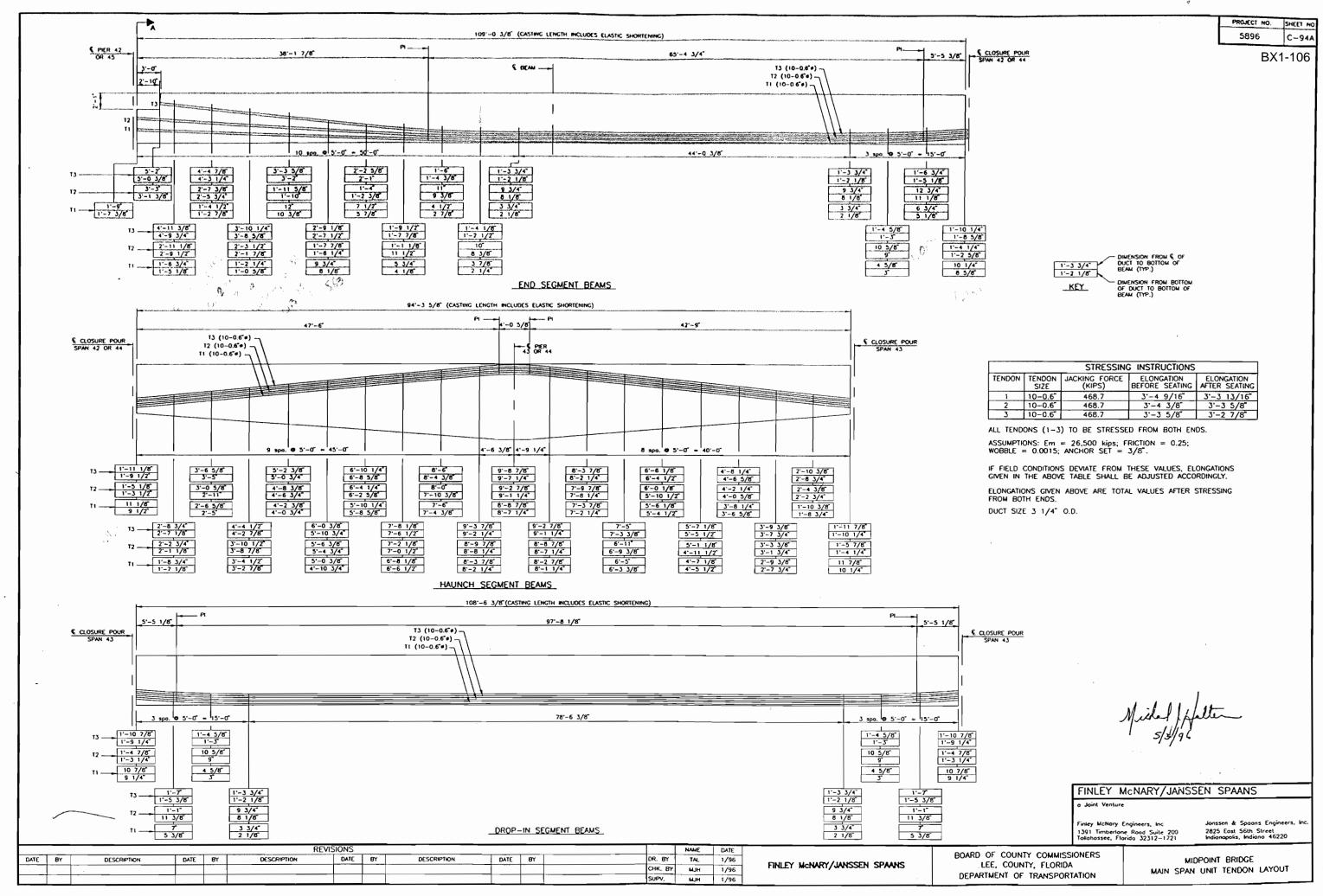
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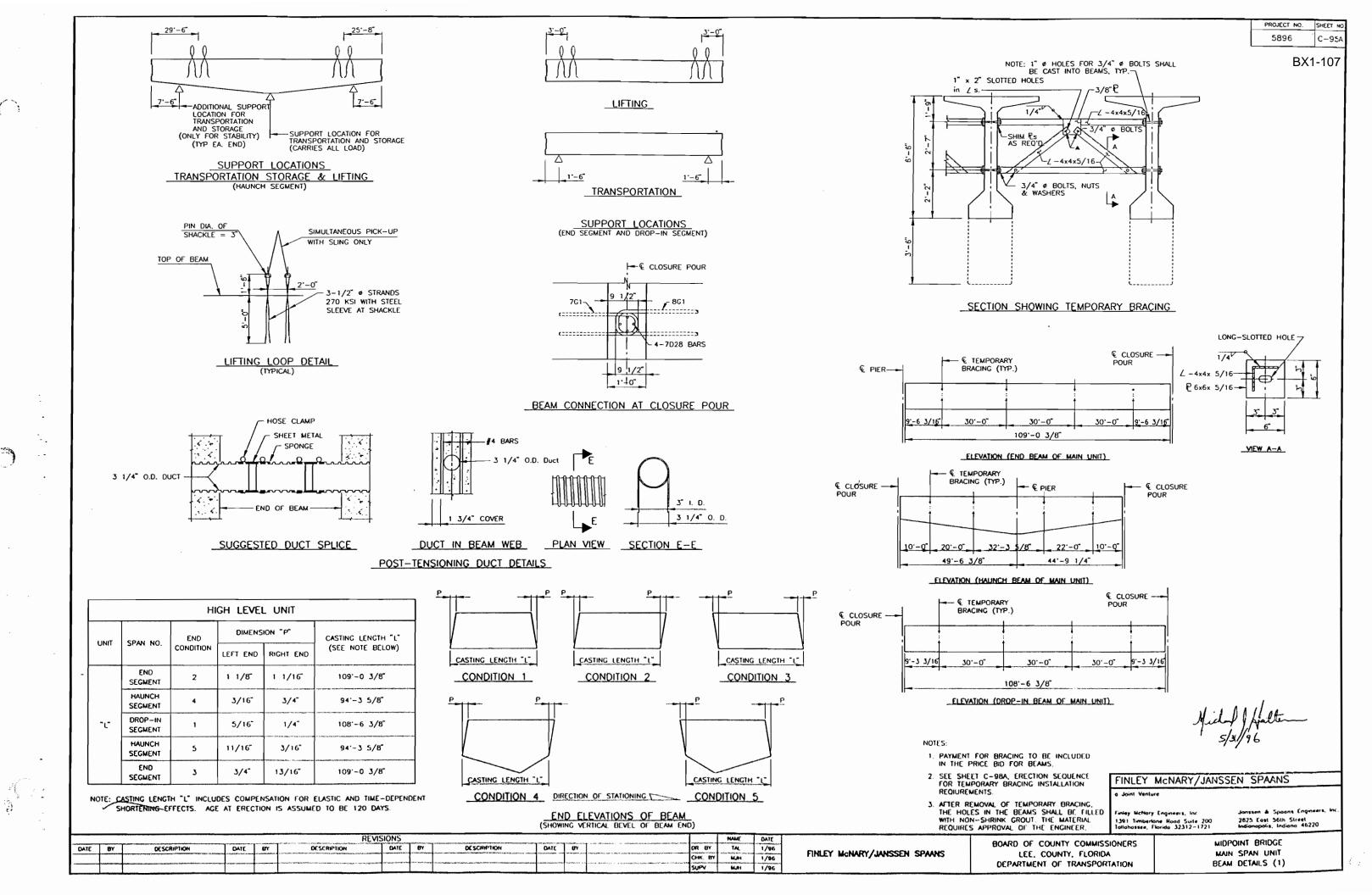


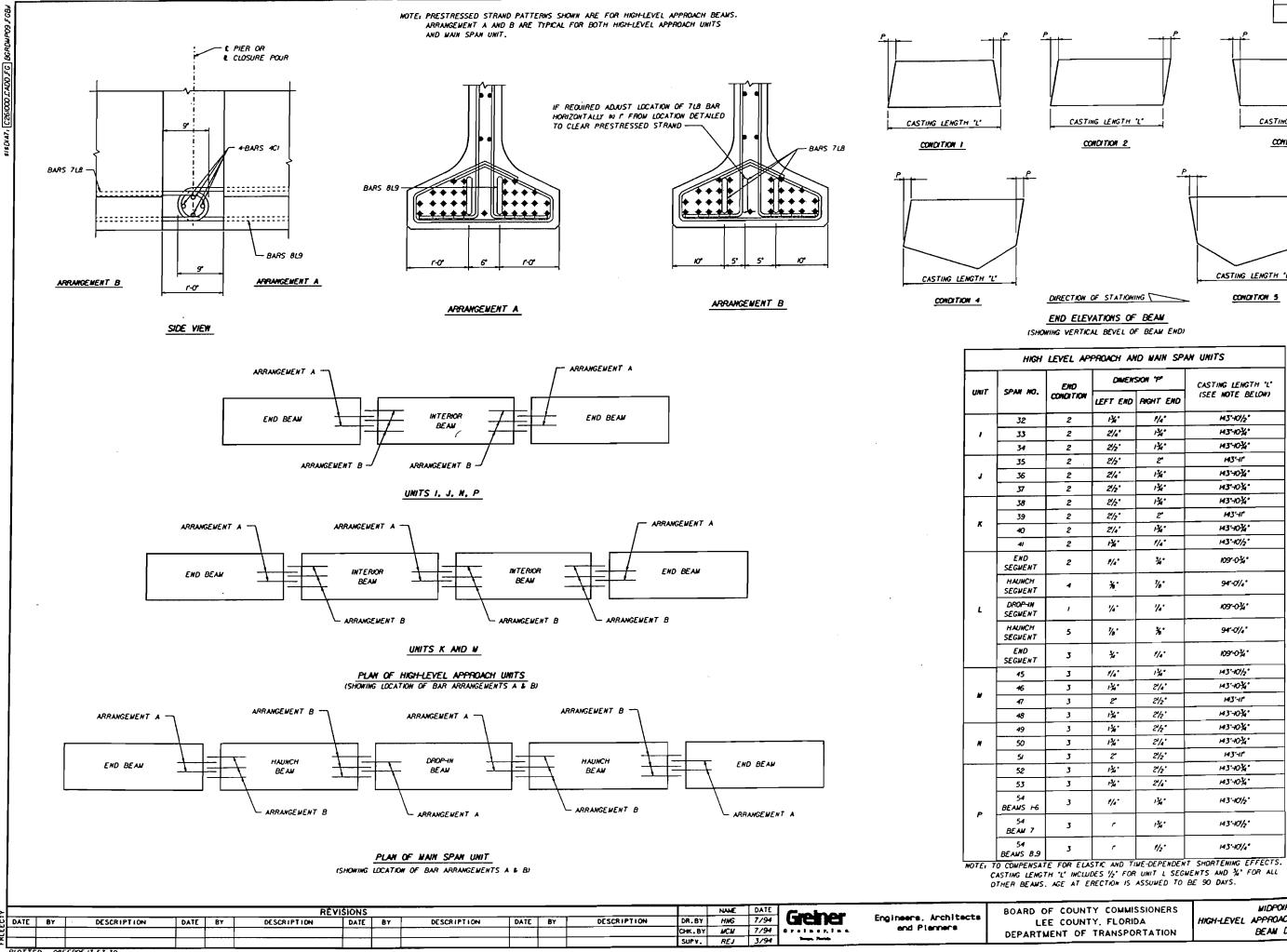
MJH 1/96

DEPARTMENT OF TRANSPORTATION

MAIN SPAN UNIT DROP-IN-SEGMENT







5896

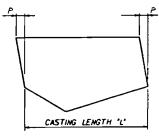
PROJECT NO SHEET NO.

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BX,1-108

CONDITION 3

CASTING LENGTH "L"



CONDITION 5

	HIGH	LEVEL AP	PROACH AN	ID WAIN SPA	N UNITS
	SPAN NO.	ENO	DIMEN	SKON TP	CASTING LENGTH "L"
UNIT	SPAN NO.	CONDITION	LEFT END	RIGHT END	(SEE NOTE BELOW)
	32	2	1%.	1/4"	H3'-10/2"
,	33	2	2/4"	14.	H3'-10¾'
	34	2	2/2'	1%*	H310¾°
	35	2 .	2/2'	2"	H3'-I'
J	36	2	2/4'	1%.	H3.40¾°
	- 37	2	2/2'	1%.	H310 ¹ / ₄ .
	38	2	2/2*	1%.	H3'-10 ¹ / ₄ '
	39	2	2/2°	2"	H3'H1'
K	40	2	2/4'	13%	H3'-10¾'
	41	2	1%	1/4°	143'-10/2"
	END SEGMENT	2	1/4"	7.	109.0%
	HAUNCH SEGNENT	4	*.	7∕8°	94'-0/4"
L	DROP-IN SEGMENT	,	1/4 *	% :	109-0%
	HAUNCH SEGWENT	5	<i>¾</i> °	**	94-0/4°
	END SEGWENT	3	7.	1/4"	103.0%
	45	3	1/4	1光·	H3'-10/2°
	46	3	1%	2/4'	H3'+0 ¾ °
₩	47	3	2"	2/2*	H3'H1"
	48	3	1%.	21/2'	<i>1</i> 43′-10 ¹ %°
	49	3	1%.	2/2°	H3'-Ю¾°
H	50	3	1%.	2/4'	43'+0 ' %°
	5/	3	2	21/2*	H3'H1
	52	3	1%.	2/2*	H3Ю¥.
	53	3	1%.	2/4	H3:+O¾*
_	54 BEANS HG	3	1/6"	/%	143'-10/2"
P	54 BEAM 7	3	,	1%.	143'-10/2"
	54 BEANS 8.9	3	r	1/2*	143'-10/4" T SHORTENING EFFECTS

MIDPOINT BRIDGE HIGH-LEVEL APPROACH AND WAIN SPAN UNIT BEAN DETAILS (2)

PLOTTED ORFERSS-13.53.30

SHEET NO PROJECT NO 5896 BX1-109 BILL OF REINFORCING STEEL (PER BEAM) BENDING DIAGRAMS (I) MAIN SPAN UNITS (MSU) HIGH-LEVEL APPROACH UNITS (HLAU) MARK MARK NO. REQUIRED LENGTH NO. REQUIRED LENGTH SIZE DES SZE DES END SPAN (108 REQUIRED) END SEGMENT (18 REQUIRED) 6 - 2 D5 5 - 0 *D*5 4 7 - 9 426 (SEE MOTE I) 7 - 9 KI 196 KI K7 K7 H - 5 (SEE NOTE 2) 14 - 11 4 K8 H - 5 (SEE NOTE 2) 5 K8 13 14 - 11 VARIES 13 - 10 TO 14 - 6 4 K9 YARIES 13-4TOH-OISEE NOTE 2 4 K9 KIO 7 - 9 2'-2/2' 2-2/2 2-2/2 19 - 3 LG 151 - 0 15 406. 407 **40** 402. 404 405 403 116 - 2 19 LG 6 - 1 8 19 6 - 1 **IJ**I IIR 3 - 0 2 W2 2 - 0 4 WI. 111 3 - 0 5 - 2 4 ¥2 2 - 0 N2 7 - 0 52 5 - 2 4KI. 5KIO 4KII N3 2 - 6 N2 7 - 0 N3 4 2 - 6 N4 5 - 9 5 - 9 4K2 5 - 0 N5 4 N4 12 56 3 - 11 4 **N**5 5 - 0 5K3 5/ 20 - 2 4 ₩6 56 3 - 11 P2 4* 2 - 6 4 5/ 20 - 2 P4 P2 7 - H 176 (SEE NOTE I) P4 1 - 9 # GIRDERS 2 THRU B ONLY * CIRDER 2 THRU B ONLY ** GIRDERS I & 9 ONLY ** GIRDERS I & 9 ONLY 14-10 4-0 INTERIOR SPAN (72 REQUIRED) HAUNCH SEGMENT (18 REQUIRED) 1-8/2 VARIES 10/2 VARIES 7 - 2 TO 11 - 10 <u>4U</u> 7 - 9 03 # - KO 4K6 4K7. 5K8 4K9 VARIES 7 - 2 TO 11 - 10 L5 3 - 1 D4 28 151 - 0 VARIES 6 - 2 TO 7 - 3 L6 4 D6 Ю 28'-7° 8L3 VARIES 6 - 2 TO 7 - 5 LB 5 - 5 4 D7 n 56'-0" 4LIO 8 19 6 - 1 KI 7 - 9 NI. 3 - 0 K2 2 SETS OF 20 VARIES 7 - 9 TO 8 - 4 5K4 5K5 108'-8" NSU 24'-0" 4LH W2 52 2 - 0 K3 2 SETS OF 75 VARIES 8 - 5 TO 10 - 11 HLAU 8L3, 4U0, 4UI 143'-6" K4 5 **K**5 2 SETS OF 65 VARIES 10 - 11 TO 8 - 6 MIN. LAP * SEE SHEET C-96 VARIES 8 - 5 TO 7 - 8 X6 2 SETS OF 20 4 4L6 NOTE: EACH BAR 4L6 MAY BE REPLACED BY ONE ASTM A-416 6 LZ 89 - 7 44-5 GRADE 250 OR 270 SEVEN WIRE STRAND % . OR IJ 28 - 7 LARGER. STRESSED TO 10.000 LB. EACH. L4 12 - 3 87'-0° 42-3 4N4 1-8/2" 15 NO. LAP SPUCES - I LB NOTE I. FOR SPAN 54 GIRDERS I THRU 9. <u>8L4</u> 56 - 0 LIO 2'-5' 4L5 SUBSTITUTE 176-4KII FOR 7.718 Ш 24 - 0 B 8L9 ш 70 3 - 0 3'-0" 4L5 2. FOR SPAN 54 GIRDERS I THRU 9. SEE MSU 2 - 0 5'-O" BILL OF REINFORCING STEEL FOR "LENGTH" 2 - IO OF BARS 4K7. 5K8. 4K9. P2 2/¥ 2 - 6 P4 6** 1 - 9 I CLOSED TURN AT EACH END PLUS * GIRDERS 2 THRU 8 ONLY (M HAUNCH SEGMENTS REC'D) 5 FULL TURNS AT ** GIRDERS I AND 9 ONLY (4 HAUNCH SEGWENTS REO'D.) 7LB. 8L9 3º PITCH *3W3* REINFORCING STEEL NOTES <u>45/</u> DROP-IN-SEGMENT (9 REQUIRED) 5N/ 443 MOTES I. ALL BAR DIMENSIONS ARE OUT TO OUT. 4**42.** 442 6 - 2 D5 5 - 0 70 I. ALL WECHANICAL SPUCERS SHALL BE A POSITIVE LOCKING TAPER THREAD 2. BARS SHALL BE BENT AROUND PINS HAVING THE FOLLOWING KI 280 7 - 9 TYPE. WITH A MINIMUM TENSILE STRENGTH OF 125 PERCENT OF SPECIFIED DIAMETERS FOR THE RESPECTIVE SIZES: KID 7 - 9 YIELD OF REINFORCEMENT STEEL CONFORMING TO ASTM A-615 GRADE 60. L5 3 - 1 PIN DIAMETER 2.5 BAR SIZE 2. REBAR ENDS SHALL BE WACHINED USING THE WANUFACTURERS BAR 116 - 2 L6 1-50 THREADER TO ENSURE PROPER THREADING. THE BARS SHALL BE 8 19 6 - 1 TIGHTENED TO THE MANUFACTURERS RECOMMENDED WRENCH SETTING. 34. Ю9 Wi 4/2° 5/4° 7P4 7*P2* NOTE: EACH BAR 4L6 WAY BE REPLACED BY ONE ASTW A-416 3. DETAILS SHOWING SPLICERS, AND THEIR LOCATIONS SHALL BE SHOWN ON THE GRADE 250 OR 270 SEVEN WIRE STRANG % . OR SHOP DRAWINGS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO LARGER. STRESSED TO 10,000 LB. EACH CASTING THE BEAM. WORK THIS SHEET WITH SHEETS CARTHRU C-94 W

-11-95 MIDPOINT BRIDGE APPROACH AND MAIN SPAN UNIT HIGH-LEVE L SPECIAL REBAR UST

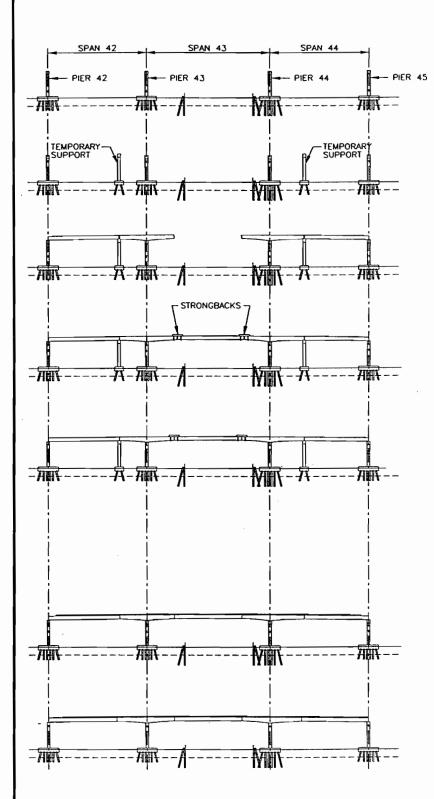
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C-97

PROJECT NO. SHEET NO 5896 C-98A

BX1-110



ERECTION SEQUENCE FOR MAIN SPAN UNIT

STEP 1 CONSTRUCT PIERS 42 THRU 45 AND FENDER SYSTEM PILES

STEP 2 ERECT TEMPORARY SUPPORTS IN SPANS 42 AND 44.

ERECT HAUNCH SEGMENT BEAMS AND SECURE TO TEMPORARY SUPPORTS. BEAM CONNECTIONS TO TEMPORARY SUPPORT SHALL BE CAPABLE OF TRANSMITTING REACTIONS SHOWN IN STEP 4. INSTALL TEMPORARY BRACING BETWEEN BEAMS AS ADJACENT BEAMS ARE ERECTED. ERECT END SEGMENT BEAMS. SECURE END SEGMENT BEAMS TO TEMPORARY SUPPORTS AND PIERS 42 AND 45 TO TRANSMIT TRANSVERSE WIND FORCES ASSUMING BEARINGS AT PIERS 42 AND 45 PROVIDE NO TRANSVERSE SUPPORT. WHEN ERECTING FIRST SEGMENT (HAUNCH OR END). SEGMENT SHALL BE SECURED TRANSVERSELY TO ENSURE STABILITY UNTIL ADJACENT BEAM IS ERECTED AND TEMPORARY BRACING PLACED. STEP 3 (DAY 120) REACTIONS ON TEMPORARY SUPPORTS, PER BEAM: (EXCLUDING CONSTRUCTION LOADS)
HAUNCH SEGMENT = 9 KIPS (DOWNWARD)
END. SEGMENT = 68 KIPS (DOWNWARD) REACTIONS SHOWN SHALL BE ADJUSTED FOR ANY CONSTRUCTION LOADS PROPOSED BY THE

STEP 4 ATTACH STEEL STRONG-BACKS TO EACH END OF DROP-IN SEGMENT BEAMS. ERECT DROP-IN SEGMENT BEAMS AND CONNECT STRONG-BACKS TO HAUNCH SEGMENT BEAMS. INSTALL TEMPORARY BRACING BETWEEN BEAMS AS BEAMS ARE ERECTED.

REACTIONS ON TEMPORARY SUPPORTS, PER BEAM: (EXCLUDING CONSTRUCTION LOADS)
HAUNCH SEGMENT = 58 KIPS (UPWARD)
END SEGMENT = 68 KIPS (DOWNWARD)

REACTION ON STRONG-BACK PER BEAM: (EXCLUDING CONSTRUCTION LOADS)
DROP-IN SEGMENT = 67 KIPS (EXCLUDING CONSTRUCTION LOADS)
REACTIONS SHOWN SHALL BE ADJUSTED FOR ANY CONSTRUCTION LOADS PROPOSED BY THE CONTRACTOR, INCLUDING THE WEIGHT OF STRONG-BACKS.

STEP 5 (DAY 150) CAST CLOSURE POURS (WITH INTERMEDIATE DIAPHRAGMS) IN SPANS 42 AND 44 FIRST, AND THEN CAST CLOSURE POURS (WITH INTERMEDIATE DIAPHRAGMS) IN SPAN 43. CAST DIAPHRAGMS AT PIER 43 AND 44 AND LOWER PORTION OF DIAPHRAGMS AT PIERS 42 AND 45. CAST SHEAR KEYS

FIRST STAGE POST-TENSIONING: AFTER CLOSURE POURS IN SPANS 42, 43 AND 44 HAVE ATTAINED DESIGN STRENGTH OF 4500 PSI, STRESS TENDON NO. 1. STRESS BEAM NO. 1 FIRST, THEN PROCEED SEQUENTIALLY TO BEAM 8 LAST (OR VICE VERSA). FOR BEAM NUMBERS SEE SHEET NO. C-53A AFTER TENDON NO. 1 IS STRESSED 30% OF ULTIMATE FORCE, IN GIVEN BEAM. THAT BEAM SHALL BE RELEASED FROM TEMPORARY SUPPORTS IN SPAN 42 AND 44. THEN TENDON IN GIVEN BEAM SHALL BE STRESSED TO FULL ANCHOR FORCE BEFORE PROCEEDING TO NEXT BEAM. AFTER TENDON NO. 1 IS STRESSED IN ALL BEAMS. STRESS TENDON NO. 2 TO FULL ANCHOR FORCE, UTILIZING THE SAME BEAM ORDER AS SPECIFIED ABOVE BEAM ORDER AS SPECIFIED ABOVE.

STEP 7 GROUT TENDONS NO.1 AND NO.2. DO NOT APPLY OR REMOVE LOADS UNTIL THE GROUT HAS REACHED A MINIMUM STRENGTH OF 2500 PSI, COMPLETELY REMOVE TEMPORARY SUPPORTS AND THE TEMPORARY SUPPORT PILING IN SPANS 42 AND 44.

STEP 8 (DAY 180)

REMOVE STEEL STRONG-BACKS. ERECT DECK FORMS IN SPANS 42 THROUGH 44. CAST DECK POURS 1 THRU 5 AS SHOWN ON SHEET NO. C-74A. REMOVE DECK FORMS AND TEMPORARY BRACING AFTER DECK CONCRETE HAS ATTAINED A STRENGTH OF 2500 PSI. SECOND STAGE POST-TENSIONING: STRESS TENDON NO. 3 UTILIZING THE SAME BEAM ORDER AS SPECIFIED ABOVE, TO FULL ANCHOR FORCE AFTER THE DECK CONCRETE HAS ATTAINED A STRENGTH OF 3400 PSI, THEN GROUT TENDON NO. 3. DO NOT APPLY OR REMOVE LOADS UNTIL THE GROUT HAS REACHED A MINIMUM STRENGTH OF 2500 PSI.

STEP 10 CAST DECK POUR 6, AS SHOWN ON SHEET NO. C~74, FILLING ANCHORAGE BLOCKOUTS AND UPPER PORTIONS OF END DIAPHRAGMS AT PIERS 42 AND 45 WITH CLASS II CONCRETE (BRIDGE DECK). PLACE BARRIERS.

NOTES

1. PRIOR TO POST—TENSIONING OPERATIONS ON MAIN SPAN UNIT, ALL SHEAR KEYS
ON FIXED PIERS (PIERS 43 AND 44) SHALL BE IN PLACE AND SHEAR KEY CONCRETE
SHALL HAVE MINIMUM STRENGTH OF 3400 PSI.

2. IF THE CONTRACTOR CHOOSES TO USE A CONSTRUCTION SEQUENCE OTHER THAN THE ONE
SUGGESTED IN THIS DRAWING, HE SHALL SUBMIT HIS CONSTRUCTION SEQUENCE TO THE
ENGINEER FOR APPROVAL.

3. COST OF ADDITIONAL MATERIAL RESULTING FROM AN UNSPECIFIED CONSTRUCTION SEQUENCE
CHOSEN BY THE CONTRACTOR SHALL BE BORNE BY THE CONTRACTOR.

4. DESIGN AND DETAILING RELATED TO TIME DEPENDANT EFFECTS OF CREEP AND SHRINKAGE, WERE
BASED ON CASTING OF GIRDERS AT DAY O AND COMPLETION OF EACH CONSTRUCTION STAGE AS
SHOWN, IF THE CONTRACTOR VARIES CONSTRUCTION BY (±) 30 DAYS FROM THIS SCHEDULE. THE
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SURVEYING THE TOPS OF BEAMS AND
MAKING ANY NECESSARY ADJUSTMENTS TO THE GIRDER BUILDUP.

5. TREATMENT OF CREEP AND SHRINKAGE IN ACCORDANCE WITH CEB—FIP RECOMMENDATIONS,
1978 EDITION, WITH THE FOLLOWING PARAMETERS:
AVERAGE NOTIONAL THICKNESS = 19 INCHES
EC (28) = 4,200,000 PSI

ed = 0.4

et = 1.75
Es = 0.00028

OF = 1.75
Es = 0.00028
6. THE CONTRACTOR SHALL DESIGN THE TEMPORARY SUPPORTS AND ITS CONNECTIONS, THE DEVICE TO SECURE THE END SEGMENT BEAMS TRANSVERSELY AND THE STRONG-BACKS. THE DESIGNS SHALL BE DONE BY A PROFESSIONAL ENGINEER REGISTERED IN FLORIDA. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL SHOWING THE DETAILS (SHOWING CONNECTIONS) AND BACKUP CALCULATIONS FOR THE AFOREMENTIONED DESIGNS. AND A THOROUGH LIST OF THE ANTICIPATED CONSTRUCTION LOADS DURING EACH STEP OF THE ERECTION SEQUENCE ALL DESIGNS SHALL BE IN ACCORDANCE WITH AASHTO DESIGN REQUIREMENTS WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

I) THE DESIGN LOADINGS FOR TEMPORARY SUPPORTS AND STRONG-BACKS SHALL FOLLOW AASHTO ARTICLE 3.22 WITH A WIND VELOCITY OF 100 MPH.

II) FOUNDATION DESIGN SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF FDOT SUPPLEMENTAL SPECIFICATIONS SECTION 455.

III) BEAM CONNECTIONS TO TEMPORARY SUPPORTS AND STRONG-BACKS SHALL BE DESIGNED AND DETAILED IN SUCH A WAY AS TO PRECLUDE ANY DAMAGE TO THE BEAMS UNDER DESIGN LOADS.

IV) TEMPORARY SUPPORTS SHALL HAVE SUFFICIENT STIFFENESS IN BOTH THE VERTICAL AND HORIZONTAL DIRECTIONS TO PREVENT MOVEMENTS UNDER DESIGN LOADS AT THE SUPPORT FROM EXCEEDING 1/4".

FINLEY McNARY/JANSSEN SPAANS

inley McNary Engineers, Inc

Jonssen & Spoons Engineers. 2825 East 56th Street Indianapolis, Indiana 46220

REVISIONS DR. BY TAL 1/96 DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY DATE BY CHK. BY MJH 1/96

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE MAIN SPAN UNIT ()

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BUILD-UP OVER BEAMS FOR APPROACH SPANS

UNIT SPAN VERTICAL BEAM BUILD-UP BUILD-UP CASE OF PIERS OF SPANS NO.

33/2

4/4

51/2*

6/16

32 19/16 - 11/16 -

34 .0 - 13/6 -

36 0 — 1½ · —

37 0 --- 11/16 · ---

38 0 — 11/16 · C

41 -19/16 - 11/16 -

45 -1% - 1% -

46 1/16° - 1/16° -

47 0 --- 11/16 ---

49 0 --- 11/16 · ---

50 0 --- 11/6 · ---

51 0 — 11/6 · ==

52 0 — 11/6 · C

GIRDERS 1-4 1//8' __ 11/16' ___

GIRDER 6 31/8' ____ 11/16' ____

GIRDER 7 311/16 - 11/16 -

GIRDER 8 4/2" 11/6" ==

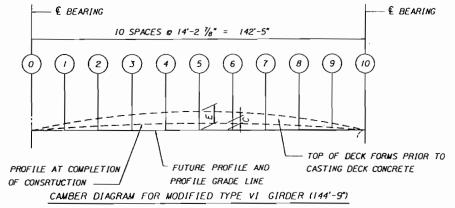
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54 (GIRDERS I-8 BELOWXSEE NOTE 2)

- 11/4 · c==

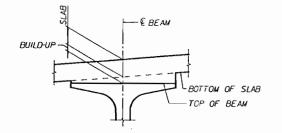
39 O --

- I. IF THE BEAM DEFLECTIONS PRIOR TO THE DECK POUR ARE HIGHER THAN THOSE SHOWN ON THIS SHEET, THE CONTRACTOR MAY INSERT THE TOP OF THE BEAM INTO THE DECK BY A MAXIMUM OF 2 INCHES.
- 2. PRIOR TO CASTING DECK CONCRETE, DECK FORMS SHALL BE SET 8 INCHES BELOW
 DECK ELEVATIONS SHOWN ON THE "FINISH GRADE ELEVATIONS SHEETS" AND ADJUSTED
 UPWARD OR DOWNWARD BY THE AMOUNT SHOWN AS CAMBER ORDINATE E.
 ON THIS SHEET. SCREED RAILS SHALL ALSO BE SET UPWARD OR DOWNWARD BY
 THE AMOUNT SHOWN AS CAMBER ORDINATE E. UPON COMPLETION OF CONSTRUCTION
 THE DECK ELEVATIONS SHOULD BE ABOVE OR BELOW THE ELEVATIONS GIVEN ON THE
 FINISH GRADE ELEVATIONS (SHEETS NO. C-59A THRU C-63A) BY AN AMOUNT OPPOSITE
 TO THAT SHOWN AS ITEM C.
- 3. ITEMS A, B, AND C ARE INTENDED TO ASSIST THE CONTRACTOR AND ENGINEER
 TO TROUBLE-SHOOT ANY DEFLECTION PROBLEMS THAT MAY OCCUR DURING CONSTRUCTION.
 ITEM D IS USED TO CALCULATE BUILD-UP OVER BEAMS.
- 4. THE DEFLECTIONS SHOWN ON THIS SHEET DO NOT INCLUDE THE EFFECTS OF BEARING PAD COMPRESSIVE DEFLECTION AND COLUMN SHORTENING.

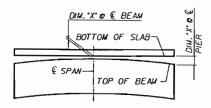


		BE	AM DE	FLECTIO	DN - 14	14'-9"						
ITEM	BEAM DEFLECTION DUE TO	0	(1)	(2)	(3)	(1)	(5)	6	7	8	9	(10)
Α	Deflection prior to deck pours (due to beam camber)	o r	17/8"	31/4"	47/6"	41/4"	446 -	41/4"	47/6"	31/4"	17/8"	o"
8	Deflection due to deck pours & barriers	σ	-13/16 -	-13/4"	-21/8"	-24"	-21/8"	-21/4"	-2 % *	-1%*	-15/16 "	o
С	Deflection due to future creep (after completion of construction)	or	-1/16 -	-1/8"	- } / ₁₆ "	7/6 "	-1/4"	- ⅓ 6 "	-¥ ₁₆ "	-1/8"	-1/16 "	o*
D	Final Deflections = A+B+C	σ	<i>7</i> ⁄8°	1%"	1%-	146	114/6 -	111/16 -	1%	1%"	%°	σ
E	Camber Ordinate = -[B+C]	o*	1-	17/8-	23/16	27/6	31/8"	21%	2% "	17/0"	1-	σ

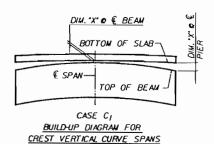
ORDINATES COMPUTED AT 10 EQUAL SPACES BETWEEN € BLARINGS AT BLGIN OR END UNIT POSITIVE ORDINATES INDICATE UPWARD DEFLECTION

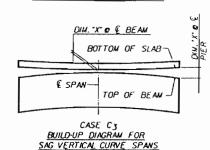


DETAL SHOWING BUILD-UP OVER BEAM



CASE T BUILD-UP DIAGRAM FOR TANGENT SPANS





BUILD - UP DETAILS - APPROACH UNITS

NOTES:

1) CAMBER OF BEAM IS BASED ON AN AGE OF BEAM CONCRETE OF 120 DAYS. 2) SEE C-53A FOR GIRDER POSITIONS.

HTDRO

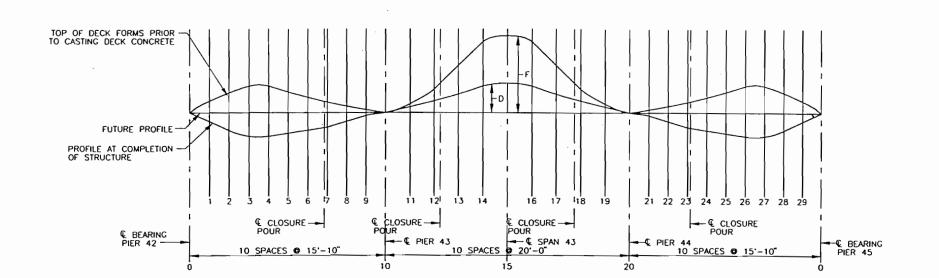
FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc. 1391 Embertone Road Suite 200 Tollohussee, Flurida 32:312-1/21 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 48220

MIDPOINT BRIDGE
HIGH LEVEL APPROACH UNITS
CAMBER DIAGRAM

							REVI	SIONS							MAKE	DATE		BOARD OF COUNTY COMMISSIONERS
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CAMBER NOTES FOR MAIN SPAN UNIT

- 1. IF THE BEAM DEFLECTIONS PRIOR TO THE DECK POUR ARE HIGHER
 THAN THOSE SHOWN ON THIS SHEET, THEN THE CONTRACTOR MAY
 INSET THE TOP OF THE BEAM INTO THE DECK A MAXIMUM OF 1".

 2. PRIOR TO PLACEMENT OF ANY DECK CONCRETE, DECK FORMS SHALL BE SET
 8" BELOW ELEVATIONS GIVEN ON THE "FINISH GRADE ELEVATION SHEETS" AND
 ADJUSTED UPWARD OR DOWNWARD BY THE AMOUNT GIVEN AS CAMBER
 ORDINATE F ON THIS SHEET. SCREED RAILS SHALL ALSO BE SET
 UPWARD OR DOWNWARD BY THE AMOUNT GIVEN AS CAMBER ORDINATE F.
 UPON COMPLETION OF CONSTRUCTION THE DECK ELEVATIONS SHOULD BE
 ABOVE OR BELOW THE ELEVATIONS GIVEN ON THE "FINISH GRADE ELEVATION
 SHEET" BY AN AMOUNT OPPOSITE TO THAT GIVEN FOR ITEM D.

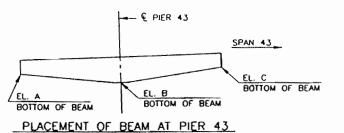
 3. ITEMS A, B, C AND D ARE INTENDED TO ASSIST THE CONTRACTOR
 AND ENGINEER TO TROUBLESHOOT ANY DEFLECTION PROBLEMS THAT MAY
- AND ENGINEER TO TROUBLESHOOT ANY DEFLECTION PROBLEMS THAT MAY OCCUR DURING CONSTRUCTION . ITEM E, IS USED TO CALCULATE BUILD-UP OVER BEAMS, SEE SKETCH THIS SHEET.
- 4. ALL CAMBER ORDINATES ARE GIVEN IN INCHES.
- 5. LEGEND:
 - A DEFLECTION PRIOR TO THE DECK POUR (DUE TO BEAM CAMBER AND FIRST STAGE P.T.)

 B DEFLECTION DUE TO DECK POUR.
 C DEFLECTION DUE TO SECOND STAGE P.T. & BARRIERS)
 D DEFLECTION DUE TO FUTURE CREEP AND FWS (AFTER COMPLETION OF STRUCTURE)

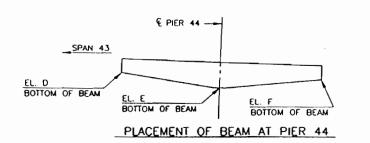
 - OF STRUCTURE)
 E FINAL DEFLECTIONS = A+B+C+D
- F CAMBER ORDINATES = -[B+C+D]6. A NEGATIVE (-) SIGN INDICATES DOWNWARD DEFLECTION.

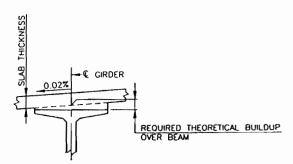
									SPAN	42												SPAN	43											SPAN 44					
BEAN NO.	(SI	ITEM SEE NOTE 5)	€ BRG. PIER 42	1	2	3	4	•	5	6	CLOSUI POUR		7	8	9	€ BRG. PIER 43	11	12	CLOSURE POUR	13	14	15	16	17	Ç CLOSURE POUR	18	19	€ BRG. PIER 44	21	22	23	© CLOSURE POUR	24	25	26	27	28	29	€ BRG. PIER 45
		Α	0	9/16	15/16	1 1/1	6 1 1/	/16 1	5/16	5/8	3/16	1/	716	-5/8	-1	1	-5/8	3/8	5/8	1 3/8	1 15/1	2 1/8	1 15/16	1 3/8	5/8	3/8	-5/8	-1	-1	-5/8	1/16	3/16	5/8	15/16	1 1/16	1 1/16	15/16	9/16	0
Ι.		В	0	-5/8	-1 1/8	3 -1 7/1	6-19	716 -	7/16	-1 3/10	-7/8	3 -1.	3/16	-7/16	-3/16	0	0	-3/16	-1/4	-1/2	-13/10	-7/8	-13/16	-1/2	-1/4	-3/16	0	0	-3/16	-7/16	-13/16	7/8	$-1 \frac{3}{16}$	-1 7/16	-1 9/16	-1 7/16	-1 1/8	-5/8	0
17.10.		С	0	3/16	3/8	1/2	9/1	16	9/16	1/2	3/8	3	/8	3/16	1/16	0	-1/16	-1/16	-1/16	-1/8	-1/8	-1/8	-1/8	-1/8	-1/16	-1/16	-1/16	0	1/16	3/16	3/8	3/8	1/2	9/16	9/16	1/2	3/8	3/16	0
THRU	,	D_	0	3/16	3/8	3/8	7/1	16	7/16	3/8	5/16	5/	/16	3/16	1/16	0	-1/8	-1/4	-5/16	-3/8	-9/16	-5/8	-9/16	-3/8	-5/16	-1/4	-1/8	0	1/16	3/16	5/16	5/16	3/8	7/16	7/16	3/8	3/8	3/16	0
"		Ε	0	5/16	9/16	1/2	17	2	1/2	5/16	0	-1	/16 -	-11/16	-1 1/16	-1	-13/16	-1/8	0	3/8	7/16	3/8	7/16	3/8	0	-1/8	-13/16	-1	-1 1/16	-11/16	-1/16	0	5/16	1/2	1/2	172	9/16	5/16	0
		F	0	1/4	3/8	9/16	9/1	16	7/16	5/16	3/16		/8 L	1/16	1/16	0	3/16	1/2	5/8	1	1 1/2	1 5/8	1 1/2	1	5/8	1/2	3/16	0	1/16	1/16	1/8	3/16	5/16	7/16	9/16	9/16	3/8	1/4	0

CAMBER DIAGRAM FOR MAIN SPAN UNIT



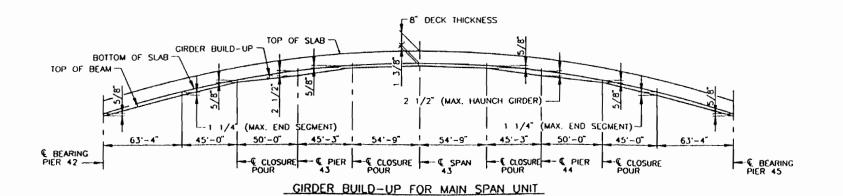
BEAM NO.	EL. A	EL. B	EL. C	EL. D	EL. E	EL. F
1	57.585	54.429	58.454	58.483	54.482	57.664
2	57.788	54.632	58.657	58.687	54,685	57.868
3	57.992	54.836	58.861	58.890	54.889	58.071
4	58.195	55.039	59.064	59.093	55.092	58.274
-5	58.195	55.039	59.064	59.093	55,092	58.274
6	57.992	54.836	58.861	58.890	54.889	58.071
7	57.788	54.632	58.657	58.687	54,685	57.868
8	57.585	54.429	58.454	58.483	54.482	57.664





BUILD-UP OVER BEAM

NOTE: CIRDER BUILD-UP WAS COMPUTED USING THE WEIGHT OF THE BEAM, SLAB, BARRIERS, DIAPHRAGMS AND F.W.S. ALONG WITH THE PRESTRESS AND CREEP AND SHRINKAGE AT DAY 10,000.



FINLEY MCNARY/JANSSEN SPAANS

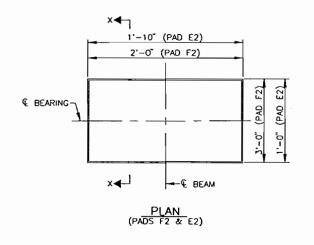
Finley McNary Engineers, Inc 1391 Timbertone Road Suite 200 Tallahassee, Florida 32312—1721

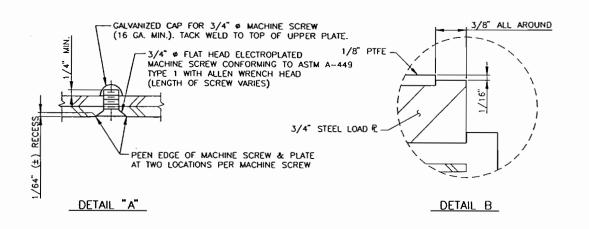
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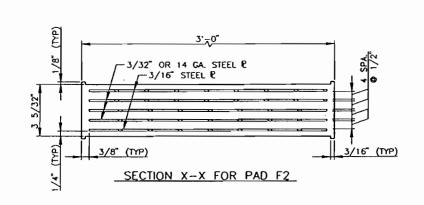
Г	REVISIONS NAME DATE	BOARD OF COUNTY COMMISSIONERS	MIDPOINT BRIDGE
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ı	CHK. BY MAH 1/96 FINLEY MCNARY/JANSSEN SPANS	LEE, COUNTY, FLORIDA	MAIN SPAN UNIT
ŀ	SUPV. MJH 1/06	DEPARTMENT OF TRANSPORTATION	CAMBER DIAGRAM

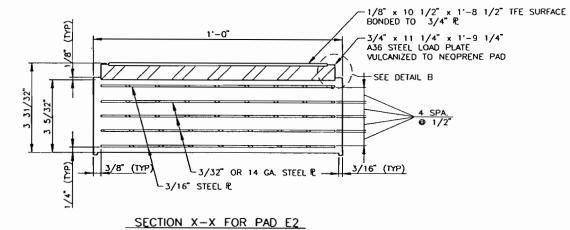
PROJECT NO. SHEET NO. 5896 C-101/

BX1-113



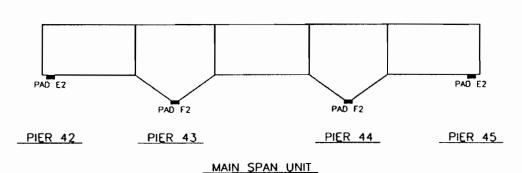


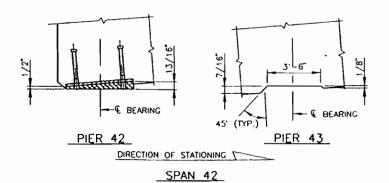




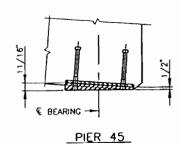
BEARING PAD NOTES

- 1. NEOPRENE SHALL HAVE A GRADE 60 DUROMETER HARDNESS.
- 2. INTERNAL STEEL PLATES IN COMPOSITE PADS SHALL CONFORM TO AASHTO SPECIFICATIONS M-251, AND EXTERNAL STEEL LOAD PLATES SHALL BE ASTM A709, GRADE 36 STEEL.
- 3. THE STEEL LOAD PLATES SHALL BE EITHER HOT DIP GALVANIZED IN ACCORDANCE WITH STANDARD SPECIFICATION 962-7, OR SANDBLASTED AND PAINTED WITH 3 COATS OF INORGANIC ZINC PAINT IN ACCORDANCE WITH STANDARD SPECIFICATION 561 EXCEPT THAT ALL 3 COATS SHALL BE APPLIED BEFORE THE BEARING IS SHIPPED TO THE JOB SITE. THE STEEL LOAD PLATE SHALL BE VULCANIZED THE SAME TIME AS THE REMAINDER OF THE TYPE E2 PAD.
- 4. PAYMENT: THE COMPOSITE NEOPRENE BEARING PADS SHALL BE FURNISHED BY THE CONTRACTOR. THE COST OF TESTING, FURNISHING AND INSTALLING THE COMPOSITE NEOPRENE BEARING PADS (INCLUDING LOAD € AND TFE) SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR COMPOSITE NEOPRENE BEARING PADS. SUCH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL WORK AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- NEOPRENE BEARING PADS FOR SPANS 1 THRU 31 AND 55 THRU 63 ARE SHOWN ON SHEET C-83.
- 6. FOR SPANS 32 THRU 41 AND 45 THRU 54 SEE SHEET C-102A.
- 7. FABRICATION OF TYPE E2 BEARING ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF TECHNICAL SPECIAL PROVISIONS SECTION 932A.





€ BEARING -PIER 44



DIRECTION OF STATIONING

SPAN 44

SECTION SHOWING BEARING PLATE AND RECESS SLOPES

IP PLATES ARE PARACLEL TO THE BUTTOM OF	
IE BEAMS AT ALL LOCATIONS.	
	WORK THE CHEET WITH CHEETS C-1024 & C+103A

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Finley McNory Engineers, Inc	Janssen & Spaans Engineers, Inc
1391 Timberlane Road Suite 200	2825 East 56th Street
Tallahassee, Florida 32312-1721	Indianopolis, Indiana 46220

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NEOPRENE BEARING PAD ROFES.

NEOPRENE Neoprene in all pads shall have a grade 60 duromater hardness and a shear modulus of 141 psi + 5%.

PAYMENT: The composite nooprene bearing pads shall be

furnished by the Contractor. The cost of furnishing and installing the composite neoprene pads shall be included in the contract unit price for Composite Neoprene Pads.

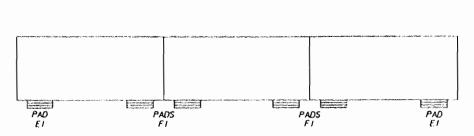
in accordance with ASTM D4014. See Special

TESTING: The Engineer shall test the neoprene bearing pads

STEEL PLATES: Internal steel plates shall conform to AASHTO Specifications W-251.

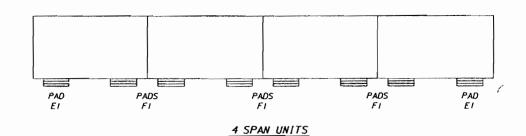
provisions for deloits.

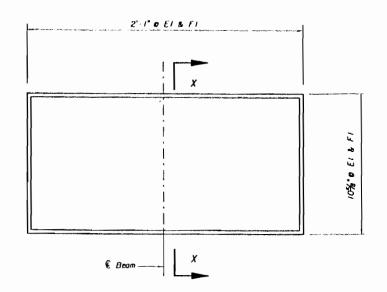
BX1-114



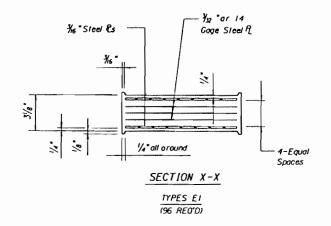
STATIONING ___

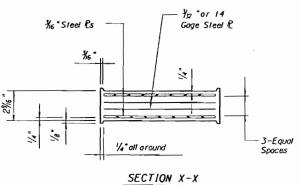
3 SPAN UNITS





PLAN OF BEARING PADS TYPE EI & FI





TYPES FI (224 REO'D)

DO MAI 96

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Finley McNary Engineers, Inc 1391 Timberlane Raad Suite 200 Tallahassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 45220

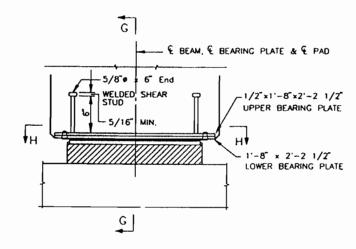
FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE BEARING DETAILS (2)

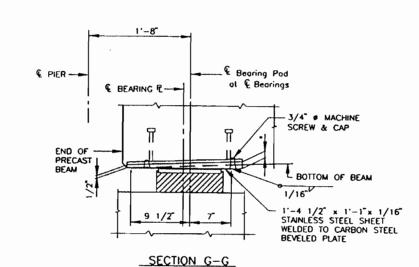
5896 C-103/

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END ELEVATION - SECTION OF BEARING ASSEMBLY FOR PADS E2

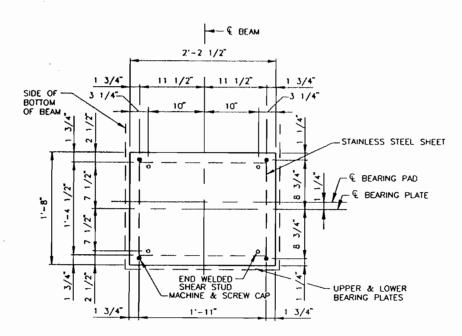
(PERPENDICULAR TO € BEAM)



SIDE ELEVATION - SECTION OF BEARING ASSEMBLY FOR PADS E2

(PERPENDICULAR TO & BEARING)

(16 TOTAL REQUIRED)



SECTION H--H
BEARING PLATE DETAIL FOR PADS E2

NOTES:

- BEARING PLATES SHALL CONFORM TO ASTM A709 GR.36, AND SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH STANDARD SPECIFICATION 962-7.
- STAINLESS STEEL SHEET SHALL BE ASTM A-240 TYPE 316, AND POLISHED TO A SURFACE FINISH OF LESS THAN 10 MICRO-INCHES RMS ON THE SIDE OF THE CONTACT WITH THE TFE. MINIMUM BRINELL HARDNESS 125.
- 3. THE SURFACE OF THE BEARING PLATE TO WHICH THE STAINLESS STEEL SHEET IS TO BE ATTACHED SHALL BE NEAR WHITE BLAST CLEANED IN ACCORDANCE WITH SSPC-SP10. THE BACK OF THE STEEL SHEET THAT IS TO BE IN CONTACT WITH THE STEEL PLATE SHALL BE ABRADED USING EMERY CLOTH. THE STAINLESS STEEL SHEET SHALL BE POSITIONED ON THE STEEL PLATE, CLAMPED AND BONDED FIRMLY IN PLACE USING QUICK-SET EPOXY APPLIED IN THE CENTER PORTION ONLY. THE STAINLESS STEEL SHEET SHALL BE APPLIED TO THE BLAST CLEANED SURFACE OF THE STEEL PLATE AS SOON AS POSSIBLE AFTER BLASTING AND BEFORE ANY VISABLE OXIDATION OF THE BLAST CLEANED SURFACE OCCURS. THE EPOXY SHALL CONFORM TO FEDERAL SPECIFICATION MMM-A-134 TYPE 1. THE STAINLESS STEEL SHEET SHALL BE WELDED TO THE STEEL BEARING PLATE CONTINUOUSLY AROUND ITS PERIMETER USING A TUNGSTEN INSERT CAS, WIRE-FED WELDER WITH FILLER METAL MATCHING THE COMPOSITION OF AN E309L ELECTRODE. THE WELDING SHALL BE DONE IN A CONTROLLED MANNER USING MULTIPLE PASSES OR STITCH WELDING TECHNIQUES TO CONTROL HEAT BUILD-UP.

- F

 FOR DIMENSIONS OF LOWER BEARING PLATE, SEE SECTION SHOWING BEARING PLATE SLOPES SHEET 101A.

WORK THIS SHEET WITH SHEETS C-101A & C-102A.

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a Joint Venture

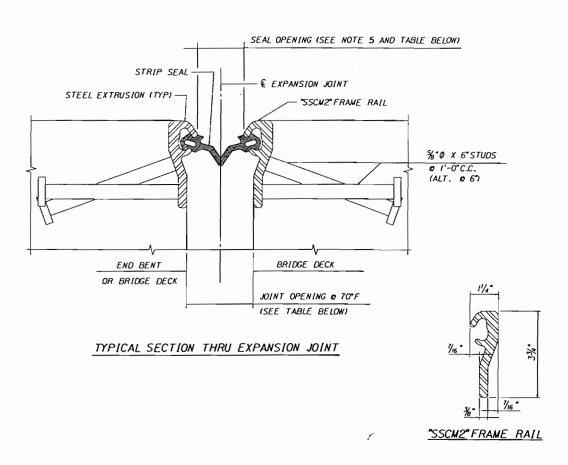
Finley McNory Engineers, Inc 1391 Timberlane Rood Suite 200 Tallahassee, Florida 32312–1721 Jonssen & Spoons Engineers, In 2825 East 56th Street Indianapolis, Indiana 46220

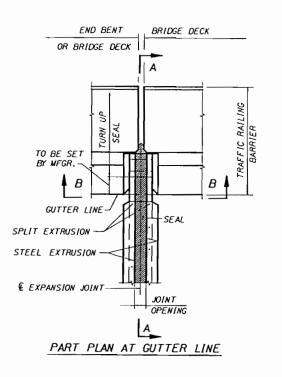
MIDPOINT BRIDGE BEARING DETAILS (3)

						RF	EVISIONS								· · · · · · · · · · · · · · · · · · ·		Jilanassee, FR
DATE	Br	r	DESCRIPTION	DATE	8Y	DESCRIPTION	DATE	8Y	DESCRIPTION	DATE	BY	 DR. BY	NAME	1/96	-	BOARD OF COUNTY COMMISSIONE	IERS
_	1	\perp										 CHK. BY	MJH	1/96	FINLEY MICHARY/JAMSSEN SPAANS	LEE, COUNTY, FLORIDA	
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5896 C-104

BX1-116

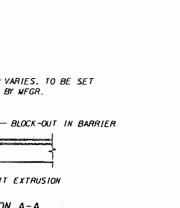




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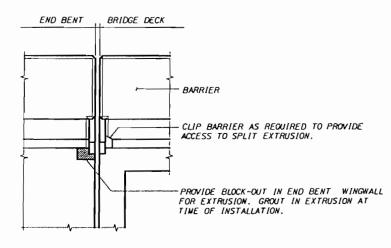
E--- SPLIT EXTRUSION

SECTION A-A



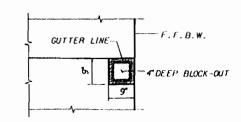
NOTES FOR EXPANSION JOINTS

- I. THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR CONSTRUCTION OF EXPANSION JOINTS IN BRIDGE DECKS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EXPANSION JOINT SEAL (STRIP ELASTOMERIC). ITEM NO. 460-7-4.
- 2. ALL STRUCTURAL STEEL FOR THE EXPANSION ASSEMBLY SHALL BE ASTM A36 OR A588.
- 3. AFTER ALL WELDING OPERATIONS HAVE BEEN COMPLETED, THE ASSEMBLY SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123. THE GALVANIZED ASSEMBLY SHALL BE PROTECTED DURING DECK SCREEDING
- 4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL EXPANSION JOINT MATERIALS INCLUDING SEAL MANUFACTURER. SEAL DESIGNATION AND PROPOSED METHOD OF INSTALLATION. THE SEAL SELECTED SHALL BE A HEAVY DUTY BRIDGE SEAL AND ACCOMMODATE THE JOINT SIZE SHOWN IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 5. FOR TEMPERATURES OTHER THAN 70 F. ADJUST JOINT OPENING ACCORDING TO THE TEMPERATURE ADJUSTMENTS SHOWN IN THE EXPANSION JOINT DATA TABLE. FOR TEMPERATURES ABOVE 70°F DECREASE OPENING. FOR TEMPERATURES BELOW 70 INCREASE OPENING.



SECTION B-B

NOTE: EXTRUSIONS & SEAL NOT SHOWN FOR CLARITY.



PLAN VIEW OF BLOCK-OUT AT END BENT

FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNory Engineers, Inc 1391 Timberione Road Suite 200 Tolluhossee, Florida 32312-1721

Januaren & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

					REVE	SIONS							NAC	DATE
MIE	BY	OCSCRIPTION	DATE	@Y	RESCRIPTION	DATE	87	DESCRIPTION	DATE	87		DR. BY	45.	1/96
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												SUPV.	ADA,	3/%

MIN. REO'D.

MOVEMENT

2/4"

2%

OPENING.

2/8"

2/3

21/8"

2/8

EXPANSION JOINT DATA (SEE NOTE 6)

ADJUST

1/4"

1/4"

MIN. OPG.

NOTE: THE SEAL DATA IS BASED ON A SEAL MOVEMENT RATING OF 21/8".

LOCATION

PIER 32

PIERS

35 & 52

PIERS

38 & 49

PIER 55

OPENING

MAX. OPG.

2//0"

31/16"

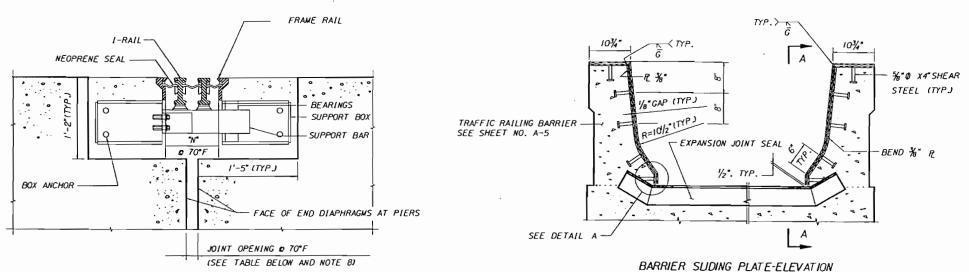
21/16

TOTAL UNITS REQUIRED: 17

FINLEY MONARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE EXPANSION JOINT (1)



TYPICAL SECTION THRU JOINT AT SUPPORT BOX

TEMP. ADJUST

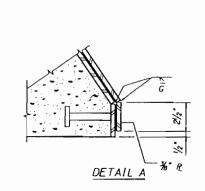
% •

(IN /10F)

TABLE "X"

LOCATION

PIER NOS. 42 & 45



	I'-O"MIN. TYP.	1'-0"	~	9"	Z'Z'I'-O'WIN.
BARRIER -			 		
	∮ <i>B</i>		 		B

VIEW A-A

OPTIONAL SLIP FORMING FOR TRAFFIC

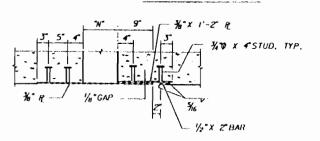
RAILING BARRIER PER SHEET NO. A-32

LIMIT OF REMOVABLE FORM FOR

CAST-IN-PLACE CONCRETE (TYP)

DIRECTION OF TRAFFIC

4.4	EXPANSION	JOINT DATA		
LOCATION	SEAL OPENING	MAX. OPENING	MIN. OPENING	JOINT OPENING
PIERS NOS. 42 & 45	1111/16 -	15%"	11"	5"



SECTION B-B

NOTES

- I) DETAILS OF EXPANSION JOINT SHOWN ARE TYPICAL FOR MODULAR "D" SYSTEM JOINTS AS MANUFACTURED BY THE D.S. BROWN COMPANY. THE MODULAR JOINT PROVIDED SHALL BE A MODULAR "D" SYSTEM. OTHER EQUIVALENT JOINT SYSTEMS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 2) ANY ADJUSTMENT TO THE DECK SLAB. THE GIRDER OR THE BARRIER SLIDING PLATE ASSEMBLY NECESSARY TO ACCOMMODATE THE EXPANSION JOINT SEAL, SHALL BE DESIGNED BY THE FABRICATOR. DESIGN CALCULATIONS AND DETAILS OF ADJUSTMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE COST OF THE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM FOR EXPANSION JOINT SEAL (MODULAR), ITEM NO. 460-7-5.
- 3) ALL BOLTS SHALL BE A-307. STUDS. BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS.
- 4) ALL STEEL SURFACES EXCEPT THOSE OF STAINLESS STEEL OR IN CONTACT WITH THE NEOPRENE SEAL SHALL BE SHOP PAINTED WITH AN INORGANIC ZINC PRIMER, 3 MILS MINIMUM. ACCORDING TO SECTION 971-16 OF THE CONSTRUCTION SPECIFICATION.
- 5) THE NEOPRENE SEALS OF THE EXPANSION JOINT SHALL BE CONTINUOUS.
- 6) EXPANSION JOINT SHALL BE INSTALLED AT A SLOPE PARALLEL TO THE BRIDGE DECK.
- 7) CONTRACTOR SHALL PLACE CONCRETE SIMULTANEOUSLY ON BOTH SIDES OF JOINT.
- 8) TEMPERATURE ADJUSTMENT: FOR JOINT CONSTRUCTION AT TEMPERATURES OTHER THAN 70°F.. ADJUST THE OPENING DIMENSION "N" AND JOINT OPENING ACCORDING TO THE TEMPERATURE ADJUSTMENTS SHOWN IN TABLE "X". FOR TEMPERATURES ABOVE 70°F. DECREASE OPENING, AND FOR TEMPERATURES BELOW 70°F, INCREASE OPENING. THE EXPANSION JOINTS SHALL BE EQUIPPED WITH TEMPERATURE ADJUSTMENT DEVICES TO ALLOW THESE FIELD ADJUSTMENTS.
- 9) IN ORDER TO MINIMIZE JOINT MOVEMENT DUE TO CREEP AND SHRINKAGE. THE CONCRETE OF THE RECESSES FOR THE EXPANSION JOINT SEALS SHALL BE THE FINAL CONSTRUCTION
- 10) ALL WELDED ASSEMBLIES SHALL BE A.S.T.M. A-709 GRADE 36 AND HOT-DIP GALVANIZED, AFTER FABRICATION. IN ACCORDANCE WITH A.S.T.M. A-123.
- 11) THE COST OF FURNISHING AND INSTALLING THE BARRIER AND SLIDING PLATE ASSEMBLIES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC RAILING BARRIER.

FINLEY MCNARY/JANSSEN SPAANS Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahasses, Florida 32312-1721

Januari & Spagna Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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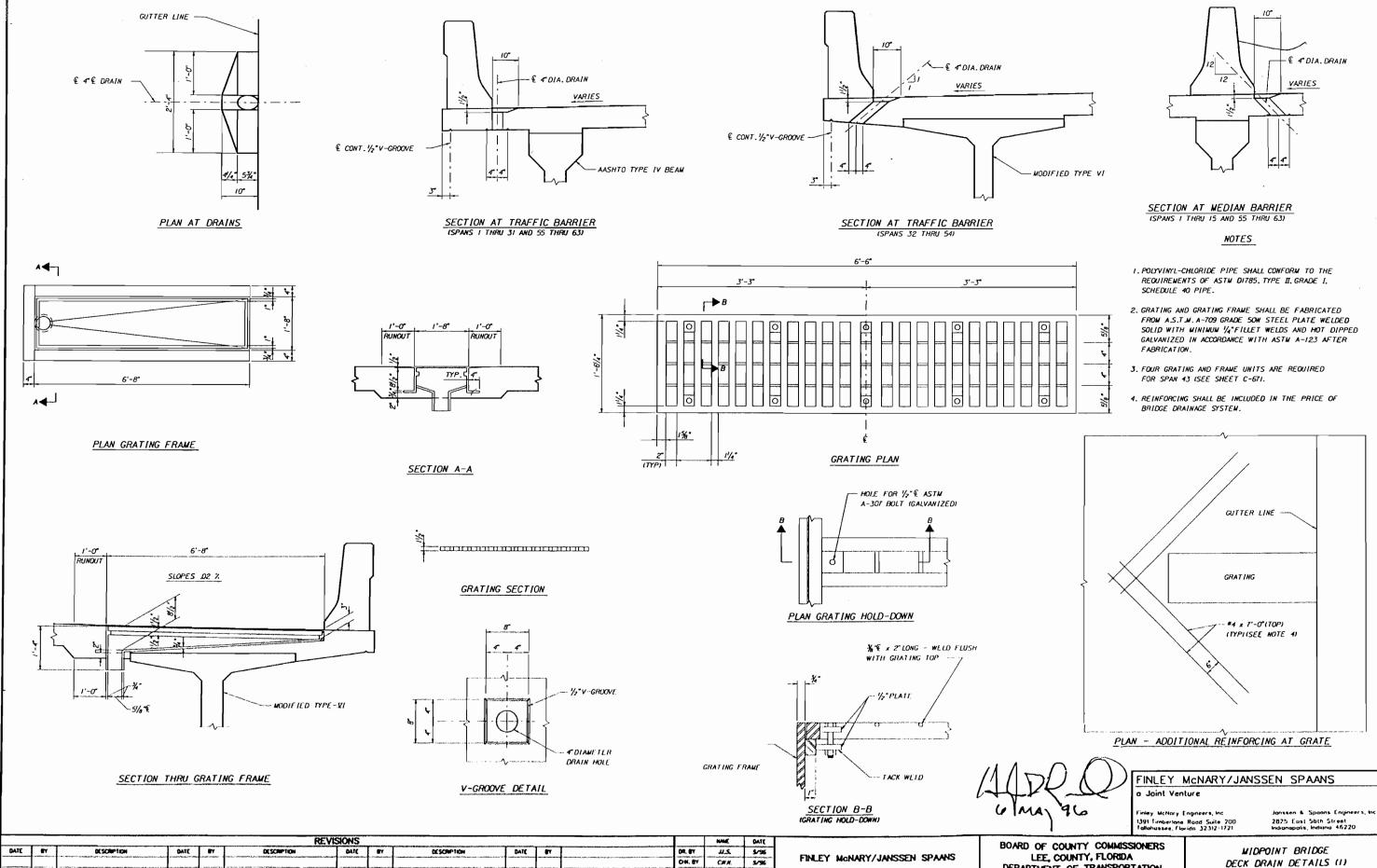
FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

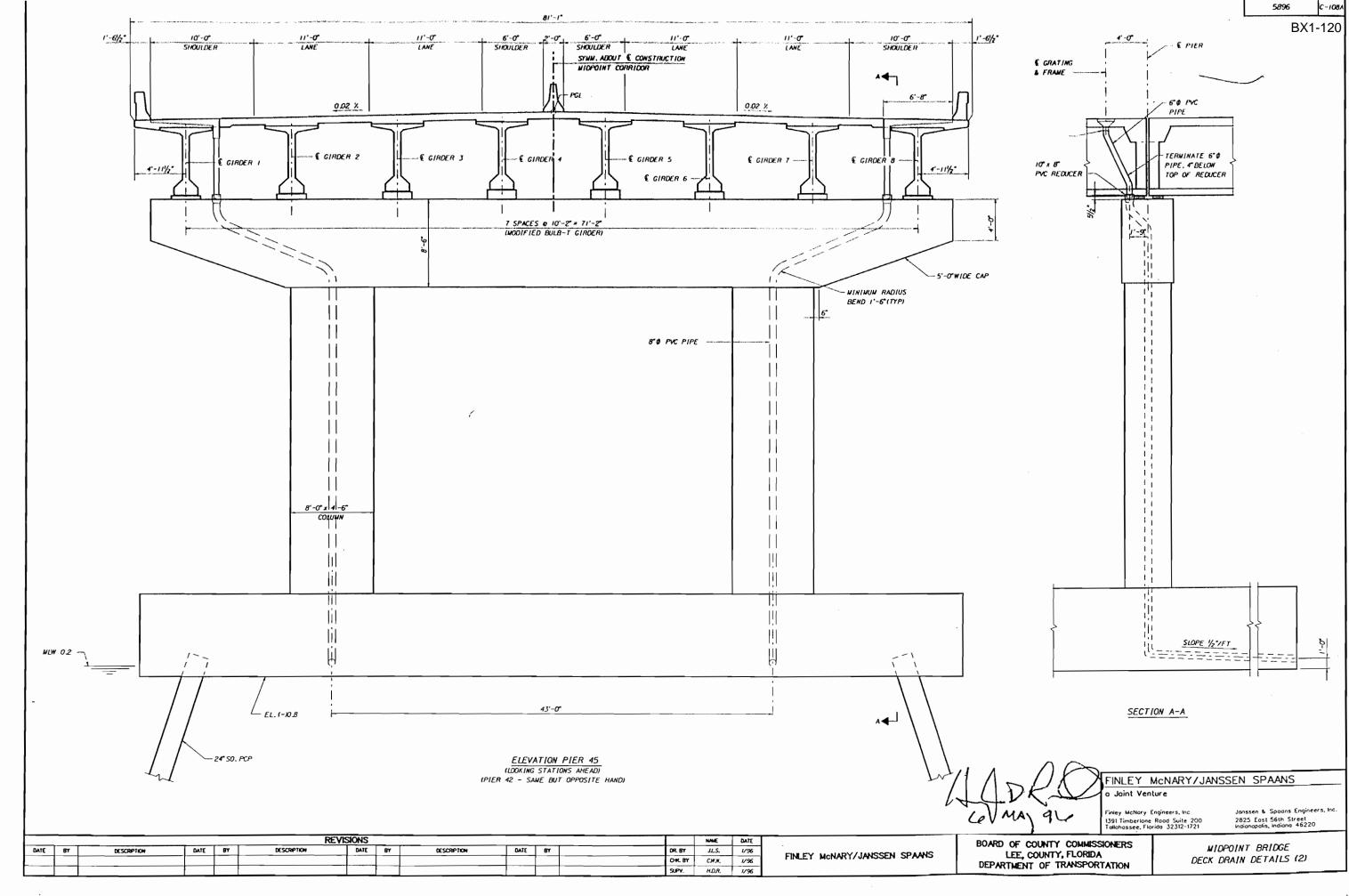
MIDPOINT BRIDGE EXPANSION JOINT (2)

PROJECT NO. SHEET NO 5896 C-106 BX1-118 € CONSTRUCTION MIDPOINT CORRIDOR AND PGL UNIT F UNIT G UNIT H UNIT 1 UNIT J UNIT K UNIT L UNIT M UNIT N UNIT P MOTES LIGHTING PLAN I. ELECTICAL JUNCTION BOXES SHALL BE FURNISHED AND INSTALLED (STATIONS SHOW LOCATION OF LIGHT POLES) 2. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE * 1/4" CONDUIT (TYP) NO. 40 PVC AND ENDS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 630-3.4. 2'-0" 3. ANCHOR BOLTS SHALL RESIST THE LIGHT POLE LOADS. CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS AND SHALL BE SIGNED 100 . 100 € CONST. MIDPOINT AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE CORRIDOR & PGL 6' MIN. TO CJ ITYPI - & CONST. MIDPOINT & LIGHT POLE € LIGHT POLE CORRIDOR & PGL RECESS SEAT FOR 4. THE COST OF ANCHOR BOLTS SHALL BE INCLUDED IN THE BID PRICE FOR LIGHT POLES. LIGHT POLE BASE 1/4" CONDUIT RECESS SEAT FOR RISER (TYP) 5. PAYMENT: THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR THE LIGHT POLE BASE ANCHOR BOLT (TYP) CONSTRUCTION OF THE LIGHT POLE BASES AND ALL CONDUITS.

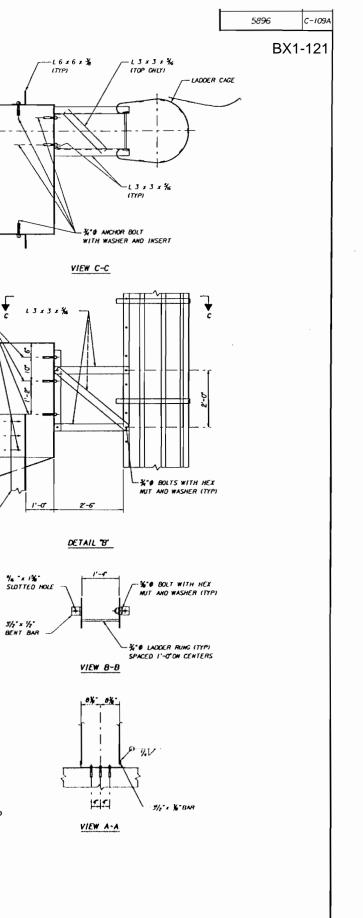
EXPANSION COUPLINGS. AND WISCELLANEOUS HARDWARE REQUIRED FOR CJ PERMITTED (TYPICAL) -COMPLETION OF THE ELECTRICAL INSTALLATION WITHIN THE LIMITS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE 1/4 DIA. CONDUIT FOR THE MEDIAN BARRIER. COVER -1/4" CONDUIT RISER -LANCHOR BOLTS, SEE NOTE NO.3 1/4" DIA. CONDUIT - ANCHOR BOLT (TYP) ANCHOR BOLT SHALL PROJECT INTO THE 8" SLAB WITH 2" CLEAR FROM PLAN ELEVATION SECTION 1/4° (TYP) (BOX & COVER) 1/4" ELECTRICAL CONDUIT FROM STA. 215-85 TO 2" CONDUIT HUB (TYP) END OF BRIDGE. PLUS A PARALLEL 1/4" ELECTRICAL وأوأواو CONDUIT FROM STA. 2130-85 TO END OF BRIDGE. SECTION A-A SECTION B-B JUNCTION BOX - & EXPAN. JOINT MEDIAN BARRIER 1/2" CHAMFER Y' OPENING 1.0 - BARRIER -Z' CONDUIT RISERS (RIGID GALVANIZED STEEL OR PVC ON PHE PROTECTIVE SLEEVE SCHEDULE 40) AT OPEN JOINTS IN BARRIER -- CONDUIT CONDUIT OPEN JOINT DETAIL TRANSVERSE SECTION LONGITUDINAL SECTION INSTALLATION - CONDUIT 1. JUNCTION BOXES ARE TO BE FABRICATED FROM STEEL CONFORMING TO ASTM A-36 AND BE NOT DIPPED GALVANIZED AFTER FABRICATION. ALL SEAMS SHALL BE PROVIDE CONDUIT EXPANSION AND DEFLECTION JOINT CONTINUOUSLY WELDED AND GROUND SMOOTH, A NEOPRENE GASKET SHALL BE FITTING AT ALL EXPANSION JOINTS IN BRIDGE. ATTACHED TO THE BOX TO PROVIDE A WATERTIGHT COVER, THE COVER SCREWS THE SIZE OF THE CONDUIT EXPANSION AND DEFLECTION SHALL BE FULLY GALVANIZED. FITTINGS SHALL MATCH THE EXPANSION JOINT SIZE IN ELEVATION THE BRIDGE. AT " OPEN JOINTS IN THE BARRIER 2. REMOVE EXCESS CONCRETE WHILE GREEN AND HAND FORM CHAMFERS. PROVIDE A PROTECTIVE SLEEVE AS SHOWN IN THE CONDUIT OPEN JOINT DETAIL. 3. JUNCTION BOX COMPLETE AND CONDUIT RISERS ARE INCIDENTAL TO THE CONSTRUCTION AND COST OF THE BARRIER WALL THERE IS TO BE NO SEPARATE COMPENSATION FOR THE BOX, RISERS OR INSTALLATION UNLESS SPECIFICALLY CALLED FOR IN THE PLANS. REVISIONS NAME DATE BOARD OF COUNTY COMMISSIONERS Greiner DESCRIPTION MIDPOINT BRIDGE DATE BY DESCRIPTION DESCRIPTION DESCRIPTION JENN 7/93 DATE BY DR. BY Engineers, Architects DATE BY LEE COUNTY, FLORIDA UGHT POLE MOUNTING DETAILS 5/94 0101005100 and Planners

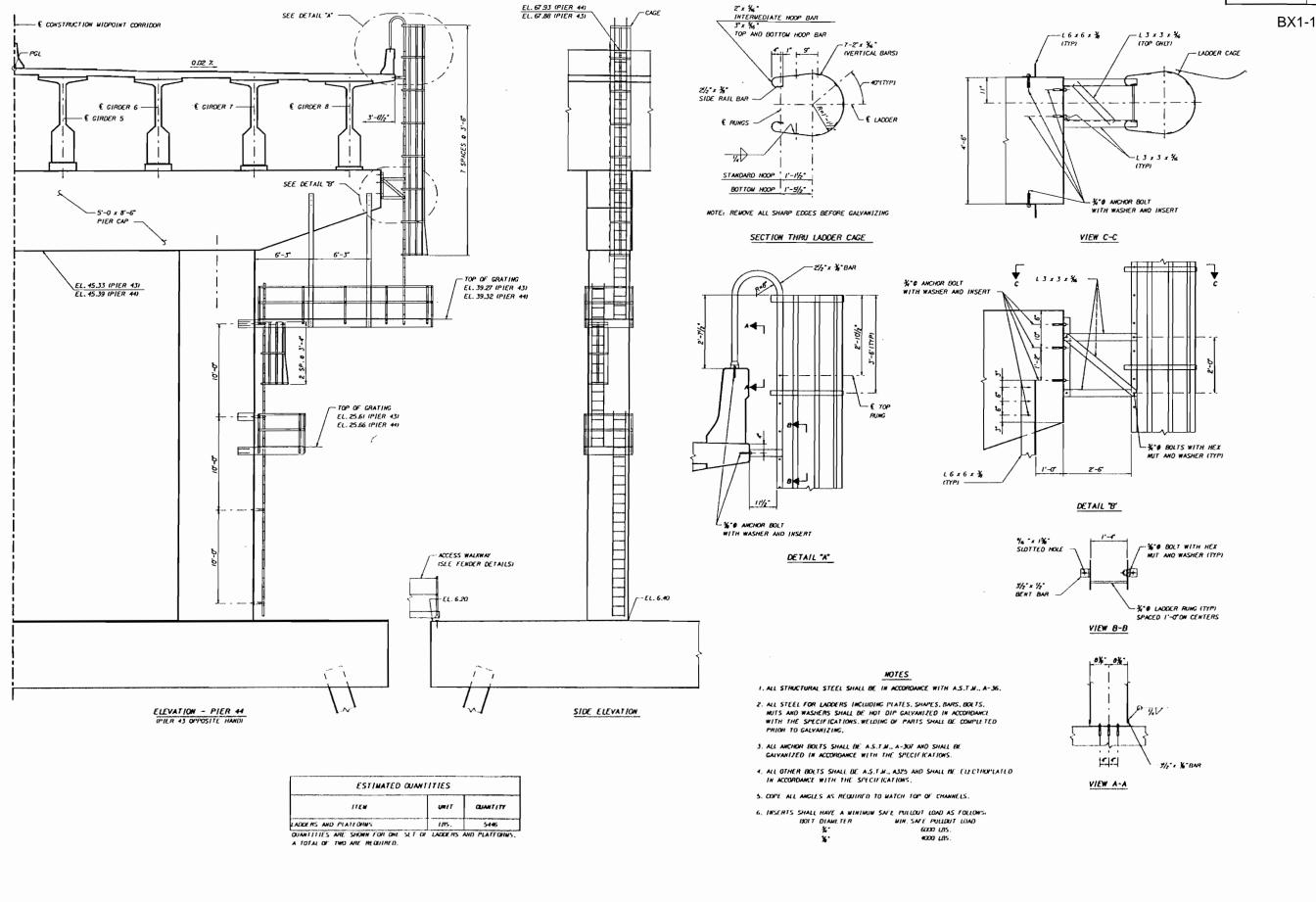


DEPARTMENT OF TRANSPORTATION

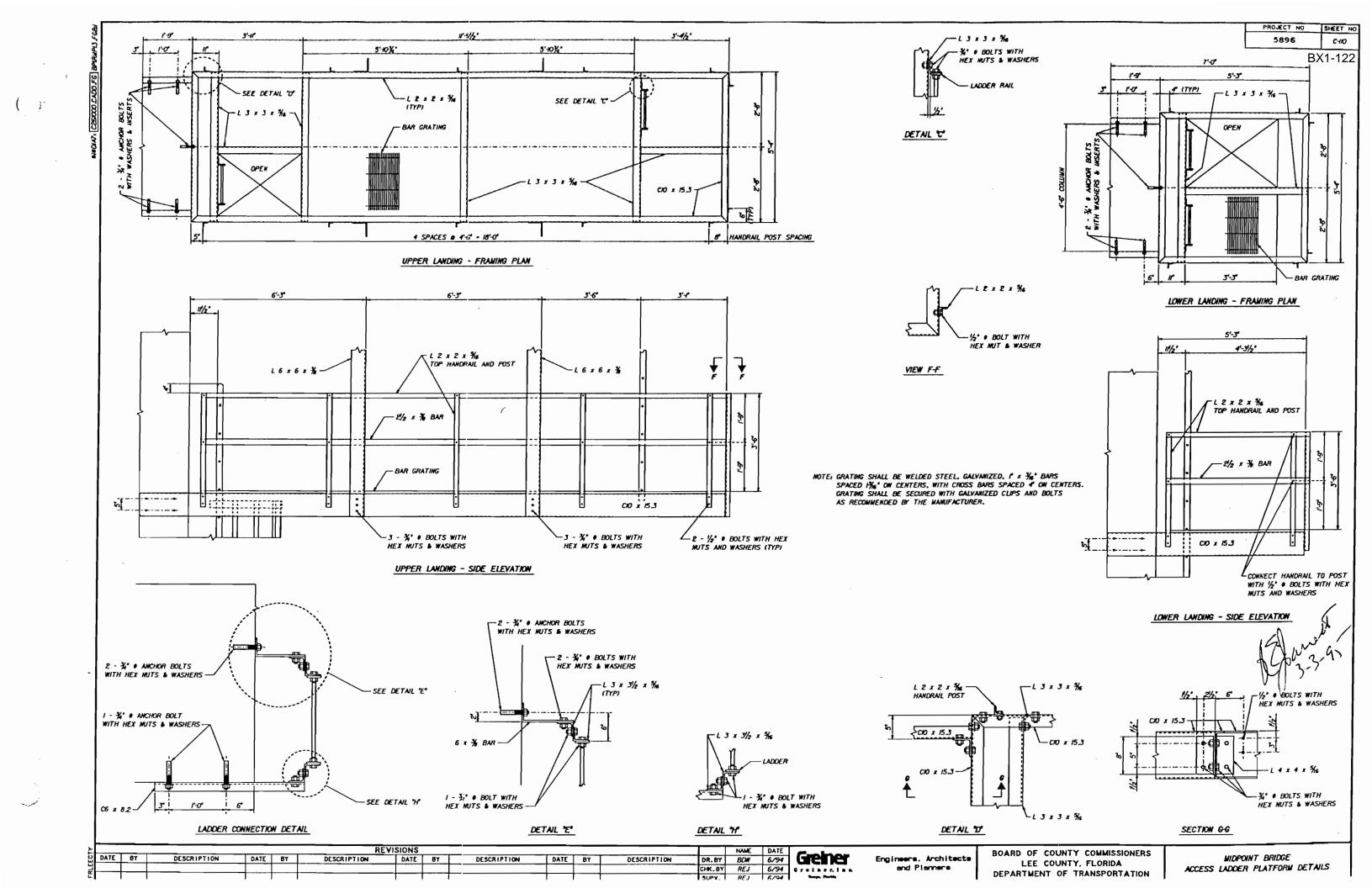


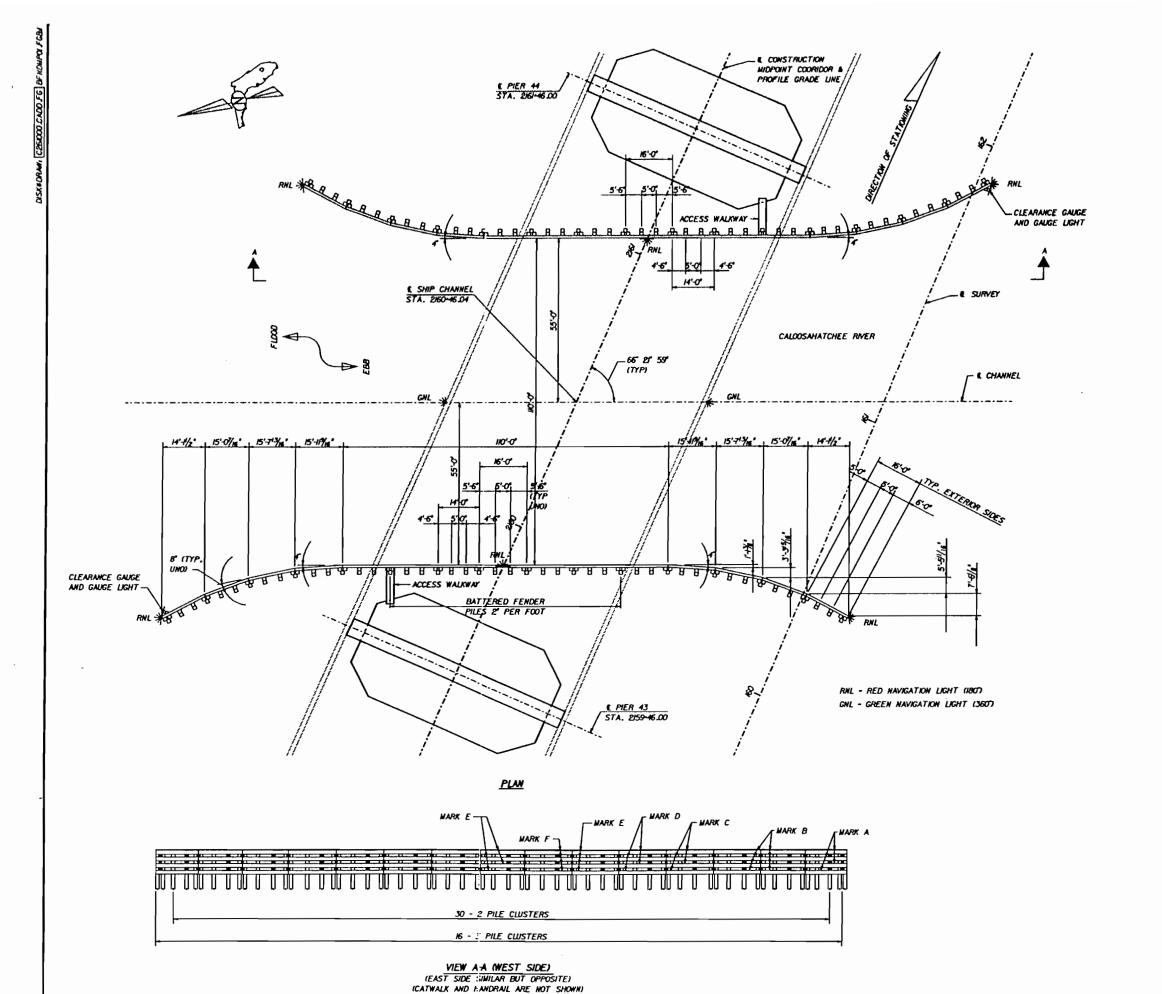
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REVISIONS BOARD OF COUNTY COMMISSIONERS Greiner MIDPOINT BRIDGE OCSCRIPTION DOW 7/94 Engineers. Architects and Planners STAD DESCRIPTION LEE, COUNTY, FLORIDA 1/94 5/96 HDR REVISED PEDESTAL ELEVATIONS GCG ACCESS LADDER DETAILS Greiner, Inc. DEPARTMENT OF TRANSPORTATION AND LOCATIONS





PROJECT NO 5896 C-III

BX1-123

	BILL OF	TREA	TED STRU	CTURAL	L TIMBER (2 FENDERS)
MARK	SIZE	LENGTH	NO. RECUIRED	F.B.N.	CUTTING DIAGRAM
٨	KO" x KO"	16'-0'	16	2,33	6'0
B	IO"xIO"	16'-0"	32	1.266	(N 8'0 A
С	KC* x KC*	16'-0'	16	2,33	14 R.O. Y.S.
D	KC* KC*	16'-C'	16	2733	E-0.9
Ε	IC'xIC'	<i>1</i> 6'-0'	32	4,267	16°0'
F	IC'xIC'	14'-0'	8	933	н'-о'
G	8°×8°	1-2	244	1,518	SEE SHEET CHOZ
н	8°×8°	1'-10"	32	3/3	SEE SHEET CHO2
J	2°x8°	16'-0'	28	597	16'-0'
K	2°x6°	2-2	820	זתנו	2-2
L	2"x8"	H'-0'	2	37	H'-O'
u	IO"xIO"	16'-0'	2	267	MOUNTING TIMBER FOR GAUGE
N	10°x12°	5'-₽	2	107	BEVELED BLOCK FOR MOUNTING GAUGE

ESTINATED QUANTITIES	(2 FENDE	ERS)
ITEM	UNIT	TOTAL
H' SOUARE PRESTRESSED CONCRETE PILES	UN. FT.	12,960
TREATED STRUCTURAL TIMBER	WF.B.W.	20,481
NAVIGATIONAL LIGHTS	LUMP SUM	1

GENERAL NOTES

- I. TREATMENT: ALL STRUCTURAL TIMBER SHALL BE TREATED IN ACCORDANCE WITH SECTION 955 OF FLORIDA DEPARTMENT OF TRANSPORATION SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 1991 EDITION.
- 2. TIMBER: ALL TIMBER TO BE ROUGH CUT.
- 3. PAYMENT: ALL COST FOR CONNECTION HARDWARE ACCESS WALKWAYS. HANDRAILS AND OTHER MISCELLANEOUS MATERIALS, AND ALL LABOR REQUIRED TO CONSTRUCT THE FENDER SYSTEM, SHALL BE INCLUDED IN THE BID PRICE FOR TREATED STRUCTURAL TIMBER.
- 4. FABRICATION: ALL TIMBERS SHALL BE CUT TO DIMENSIONS SHOWN BEFORE TREATMENT.
- 5. PILES: LENGTH OF PILES FURNISHED SHALL BE 60'. THE STRANDS AT THE TOP OF THE PILE SHALL BE BURNED OFF AN INCH INTO THE CONCRETE AND PATCHED WITH EPOXY GROUT. ANY DAMAGE TO THE HEAD OF THE PILES AFTER DRIVING MUST BE REPAIRED WITH EPOXY GROUT.
- 6. HARDWARE: BOLTS AND ANCHORS SHALL BE A.S.T.M. A307. ALL BOLTS, ANCHORS, WASHERS, SPIKES, NUTS AND NAILS TO BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION 962-7. UNLESS NOTED OTHERWISE.
- 7. BATTERED FENDER PILES SHALL BE BATTERED 4 INCHES PER FOOT UNLESS NOTED OTHERWISE.
- 8. NAVIGATION LIGHT SYSTEM INCLUDING CLEARANCE GAUGES AND ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH FDOT AS SHOWN ON SHEETS CHIA & CHIS.

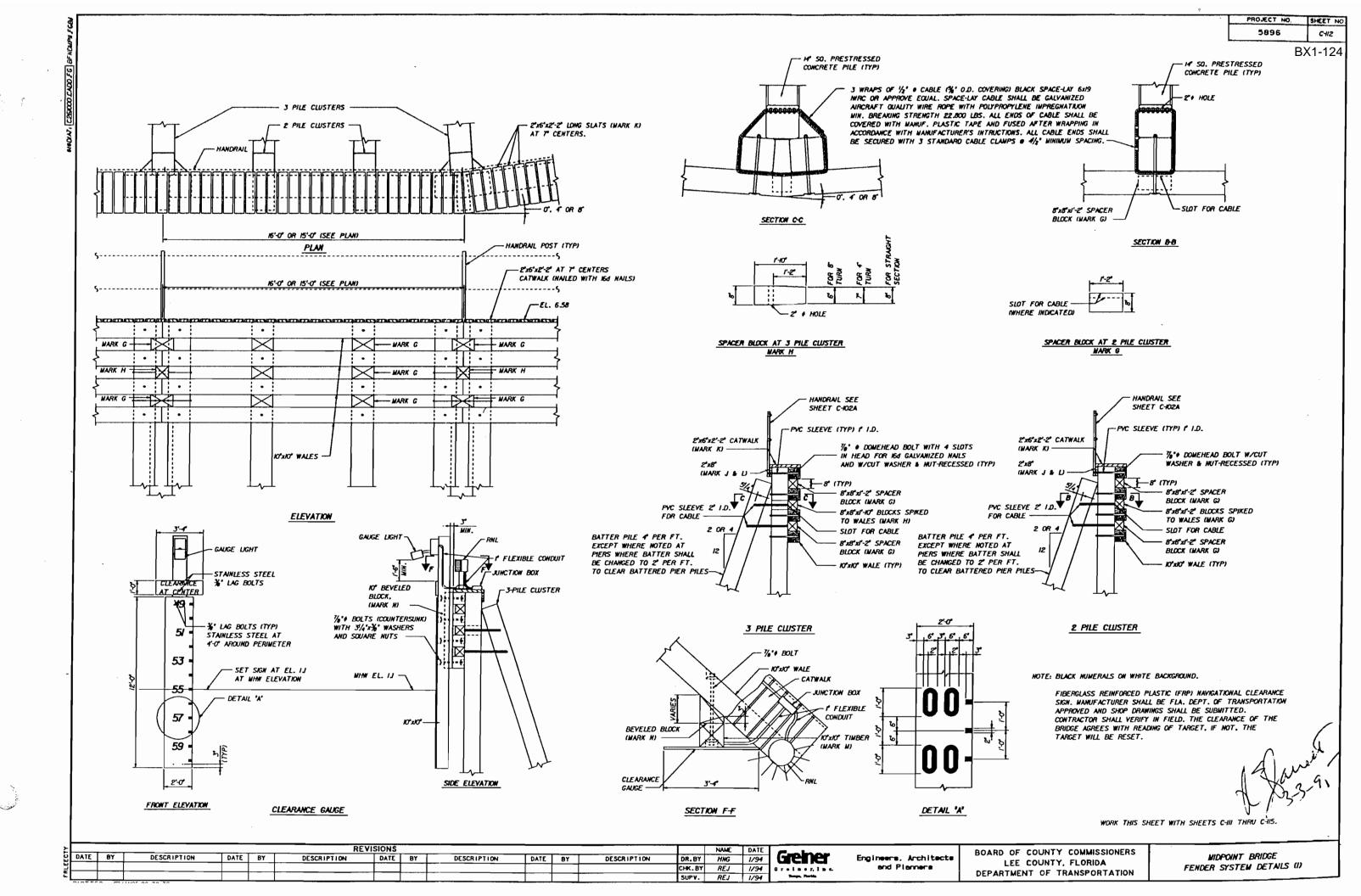
WORK THIS SHEET WITH SHEETS C-112 THRU C-115.

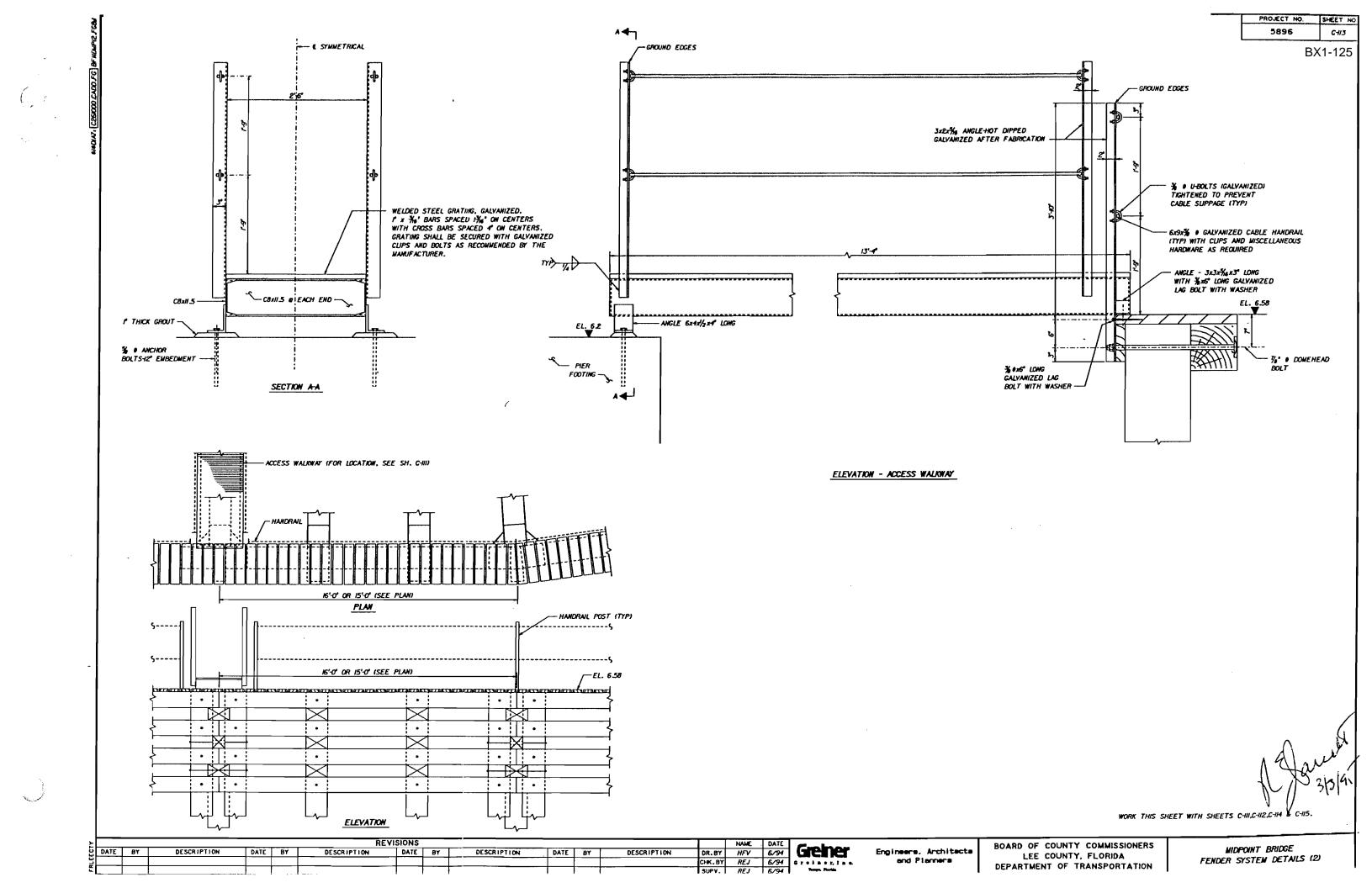
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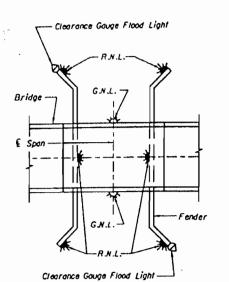
Engineers. Architects and Planners

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

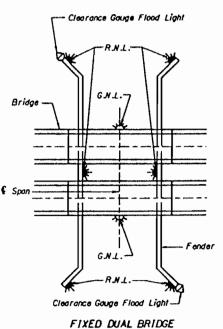
MIDPOINT BRIDGE FENDER SYSTEM











NAVIGATION LIGHT SYSTEM

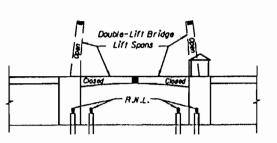
NOTES FOR BASCULE BRIDGES

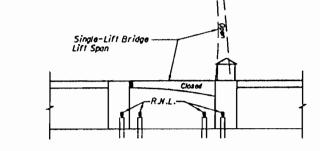
RED NAVIGATION LIGHT: 180°, 120 volt, 60 watt, minimum 155 mm fresnel lens, vandal proof. Luminous intensity for horizontal beam 30 candela (min.). Vertical divergence at 15 CD intensity, 6 maximum. Shall be equipped with a dual lamp and transfer relay option and bulbs rated minimum 32.000 hours extended life @ 110 volts. Lantern shall be mounted on a stainless steel post including fittings with a total height of 24 above fender.

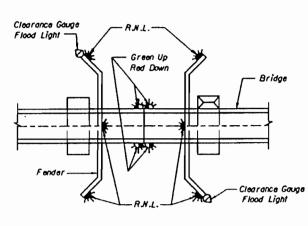
RED/GREEN CHANNEL LIGHT: Red 180°tens, Green 180°tens, 120 volt, 60 watt, minimum 155 mm fresnettens. Luminous intensity for horizontal beam 30 candeta (min.). Vertical divergence at 15 CD intensity, 6° maximum. Shall be equipped with a dual lamp and tronsfer relay option and bulbs rated minimum 32,000 hours extended life of 110 volts. Equip with a pivot mount and retrieval chain so that the base can be mounted outside of bridge barrier and lantern can be serviced by reaching over the barrier from inside. Hanger stem shall be long enough so that lantern does not extend below the bottom of the girder.

CLEARANCE GAUGE LIGHT: Angle of illumination 15° to 30° depending on fixlure contour. Ballost with high power foctor using a 35 watt high pressures sodium lamps. Enclosure to be NEMA 3R cost aluminum housing with epoxy finish enamel. Voltage shall be 110 volts, 60 Hz.

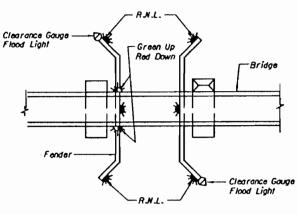
Novigation Light system shall comply with the latest edition of the Code of Federal Regulations, Novigation and Novigable Waters, CFR 33 Part 118, Bridge Lighting and Other Signals.



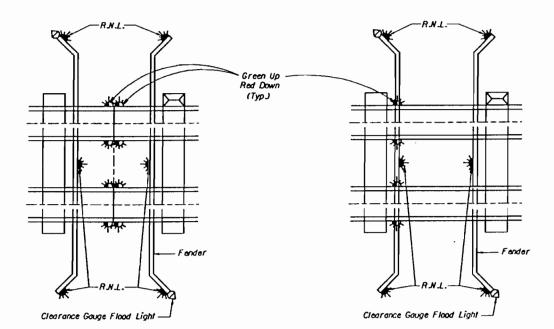




TYPICAL BASCULE BRIDGE NAVIGATION LIGHT SYSTEM DOUBLE LEAF



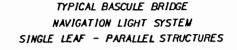
TYPICAL BASCULE BRIDGE
NAVIGATION LIGHT SYSTEM
SINGLE LEAF

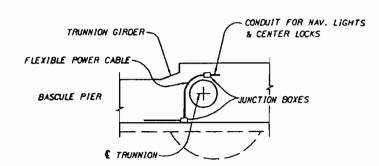


TYPICAL BASCULE BRIDGE

NAVIGATION LIGHT SYSTEM

DOUBLE LEAF - PARALLEL STRUCTURES





BASCULE BRIDGE FLEXIBLE CABLE ARRANGEMENT

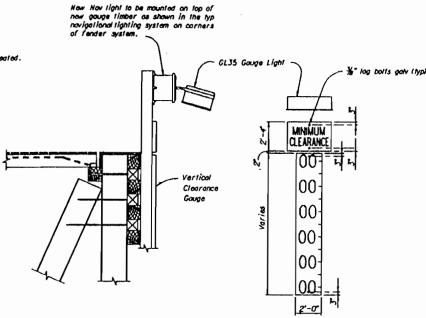
Drawing No.

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Е	Octo By	Description	Date	Ву	Description	on	Drawn by	JSP	10-92	GREINER INC.	1 2000.		1 9			NAVIGATION LIGHT SYSTEM DETAILS	1 of 2
Т	- 1		92				Checked by	AFR.	10-92		Cup in a u		1	STRUCTURE	S DESIGN OFFICE		
1							Designed by	_		P.O. 31646, 7680 WEST	<u>Greiner</u>		7010 mg	CONTY	PROJECT NO.	PROJECT MANEL	index No.
			1				On a street but			COURTNEY CAMPBELL CAUSEWAY			HUAD MG.	COUNTY	PROJECT NO.	WIDPOINT BRIDGE	510
			1				Checked by			TAMPA, PLORIDA 3467-1462			004		5000	MIDFOINT BRIDGE	J 3/0
1	- 1		1				Approved by	AF	R	TANFA, TEORIDA MEN-1441			884	LEE	5896		

5

All Components Required as Shown Below

- 1. 2 No. 12 TINNN & 1 No. 12 ground in 1/2 liquid light flex conduit UV treated.
- 2. I* Sch. 40 PVC conduit. containing service conductors.
- Extend ¾* Type A PVC conduit, 2 ~ No. 12 THWN conductors, 1 ~ No. 12 THWN ground thru embedded ¾* PVC conduit to opposite channel light.
- 6"x 6"x 4" PVC junction box. Connect channel lights to conductors from service point.
- Stainless steel 2" pipe shall extend 9" below lowest point on bridge superstructure.

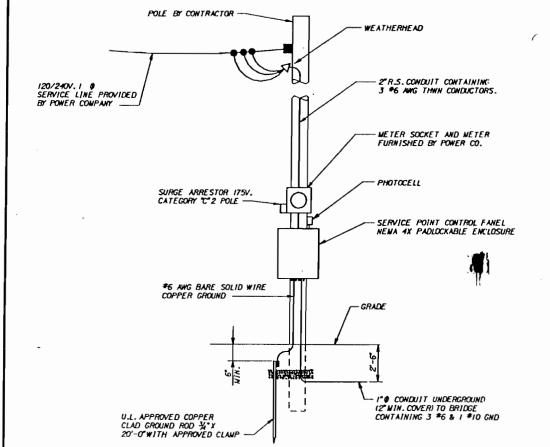


CENTER CHANNEL WARKER NAVIGATION LIGHT FOR FIXED BRIDGES

GAUGE LIGHT

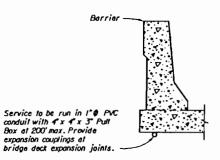
CLEARANCE GAUGE DETAILS

Numbered clearance gauge to be furnished by the Contractor. Contractor shall verify in field that the clearance of the bridge agrees with readings of target. If not, the target will be reset.

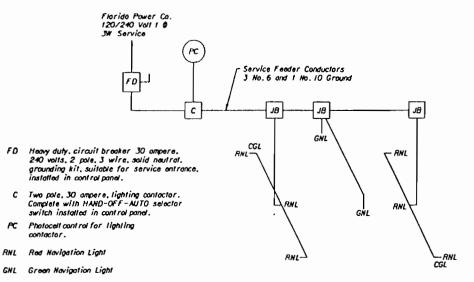


SERVICE POINT DETAIL

SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL CODES. THE HEIGHT OF THE WEATHERHEAD AND METER ARE AS REQUIRED BY POWER COMPANY.



TYPICAL CONDUIT INSTALLATION



TYPICAL LAYOUT OF NAVIGATION LIGHTS FOR FIXED BRIDGES

NOTES FOR FIXED BRIDGES

- 1. Install No. 12 AWG galvanized pullwire in each conduit
- 2. PVC buried in concrete to exit under bridge near novigation tight mount
- 3. All branch wiring to be No. 12 AWG, CU, THWN or equivalent. At no time shall there be more than 120 valls on the fender.
- 4. All conduits to be PVC UV treated unless atherwise noted or not permitted by local code.
- 5. All straps to be PVC coated steel and log screws codmium plated.
- 6. Contractor shall obtain direction from the Engineer before fastening anchors into bridge structure.
- 7. For service feeder wiring runs use 3 No. 5, 1 No. 10 ground. Loads shall be balanced.
- 8. Approved vandal proof fixture must be used

CGL Clearonce Gauge Light

JB Junction Box

RED NAVIGATION LIGHT: 180°, 120 volt, 60 watt, minimum 155 mm fresnel lens, vandal proof. Luminous intensity for horizontal beam 30 condeta (min.). Vertical divergence of 15 CD intensity, 6° maximum. Shall be equipped with a dual lamp and transfer relay option and bulbs rated minimum 32,000 hours extended life a 110 volts. Lantern shall be mounted on a stainless steel past including fittings with a total height of 24° above fender. For bridges without fenders, fixture shall be fabricated and mounted in same manner as GREEN NAVIGATION LIGHT of equal height.

GREEN NAVIGATION LIGHT, 360°, 120 volt, 60 watt, minimum 155 mm freshel lens. Luminous intensity for horizontal beam 30 canded affinity. Vertical divergence at 15 CD intensity, 6° maximum. Shall be equipped with a dual tamp and transfer relay option and bulbs rated minimum 32,000 hours extended life a 110 volts. Equip with a pivot mount and retrieval chain so that the base can be mounted outside of bridge barrier and tantern can be serviced by reaching over the barrier from inside. Hanger stem shall be long enough so that tantern can be seen from either channel direction when the tantern is in the lowered position. Lantern shall be latchable in the down position.

CLEARANCE GAUGE LIGHT: Angle of illumination 15° to 30° depending on fixture contour. Ballast with high power factor using a 35 wall high pressure sodium tamp. Enclosure to be NEMA 4X cost aluminum housing with epoxy finish enomet. Voltage shall be 110 volts, 60 Hz.

Novigation Light system shall comply with the latest edition of the Code of Federal Regulations, Novigation and Novigable Waters, CFR 33 Part 118, Bridge Lighting and Other Signals.

REVISIONS

AND DESCRIPTION DATE BY DATE BY DESCRIPTION DATE BY


Engineers, Architects and Planners BOARD OF COUNTY COMMISSIONERS
LEE COUNTY, FLORIDA
OEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE NAVIGATION LIGHT SYSTEM DETAILS

DATE BY

DESCRIPTION

DATE BY

PROJECT NO. SHEET NO. 5896 C-1/6

BX1-128

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FOR STANDARD BAR BENDING DETAILS, SEE
SHEET A-6. REINFORCING STEEL SHALL BE
ASTM, AGI5, GRADE 60.

REVISIONS

BY DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION DR.BY SG 7/94

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Engineers, Architects

BOARD OF COUNTY COMMISSIONERS
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FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM. AGIS, GRADE 60.

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Greiner

Engineers. Architects

BOARD OF COUNTY COMMISSIONERS LEE COUNTY, FLORIDA

MIDPOINT BRIDGE

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NOTE:
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REVISIONS DATE BY DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DATE BY DATE BY

Engineers, Architects and Planners

MIDPOINT BRIDGE

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NOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTW, AGIS, GRADE 60.

HDRO COMMINGE

FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timbertone Road Suite 200 Tallahassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 55th Street Indianapolis, Indiana 46220

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MOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTW. AGIS, GRADE 60.



FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Raad Suite 200 Tallahassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 55th Street Indianopolis, Indiana 46220

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FINLEY McNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS
LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (6)

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MOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM, A615, GRADE 60.



FINLEY McNARY/JANSSEN SPAANS

o Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Rood Suite 200 Tallahossee, Florida 32312-1721

Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS
LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (7)

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DR. BY

JLS. 1/96

CHK, BY CW.N. 1/96

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FINLEY McNARY/JANSSEN SPAANS

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MIDPOINT BRIDGE

REINFORCING BAR LIST (8)

LEE, COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

C-124A WARK LENGTH NO TTP STY B C O E F N J K
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MIDPOINT BRIDGE

REINFORCING BAR LIST (9)

LEE, COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

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MOTE: FOR STANDARD BAR BENDING DETAILS. SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM, A615, GRADE 60.

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#### FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (10)

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MOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM. AGIS, GRADE 60.

FINLEY MCNARY/JANSSEN SPAANS

o Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Rood Suite 200 Tollahassee, Florida 32312-1721

Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (II)

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FINLEY MCNARY/JANSSEN SPAANS

o Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Flarida 32312-1721 Jonssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiano 46220

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FINLEY MICHARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (12)

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FINLEY MCNARY/JANSSEN SPAANS a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahossee, Florida 32312-1721

Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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DR. 87 J.L.S. 1/96
DR. 87 CW.N. 1/96
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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

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MIDPOINT BRIDGE REINFORCING BAR LIST (13)

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NOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTN. A615, GRADE 60.

FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timbertane Road Suite 200 Tallahassee, Florica 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

REVISIONS NAME DATE DATE BY DESCRIPTION DATE BY DR. BY JLS. 1/96 DESCRIPTION DATE BY DESCRIPTION DATE BY CHK, BY C.W.N. 1/96 HDR. 1/96 SUPV.

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

6 MM

MIDPOINT BRIDGE REINFORCING BAR LIST (14)

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FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM, A615, GRADE 60.

FINLEY MCNARY/JANSSEN SPAANS

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721

Janssen & Spoans Engineers, I 2825 East 56th Street Indianapolis, Indiana 46220

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FINLEY MCNARY/JANSSEN SPAANS

20ARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (15)

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FOR STANDARD BAR BENDING DETAILS. SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM. A615, GRADE 60 AND SHALL BE FPOXY COATED.

FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tollahassee, Florida 32312-1721

Janssen & Spaans Engineers, Inc 2825 East 56th Street Indianapolis, Indiana 45220

				REV	VISIONS						NAME	DATE		BOARD OF COUNTY COMMISSIONERS	
04	E BY	DESCRIPTION	DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	87	DR. BY	TAL	1/96	FINLEY MICHARY/JANSSEN SPAANS	LEE, COUNTY, FLORIDA	MIDPOINT BRIDGE
										CHK. BY	MJH	1/96	FIREE MCIANTI/UNISSEN SPANIS	DEPARTMENT OF TRANSPORTATION	REINFORCING BAR LIST (16)
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27-3

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27-5

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NOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTN. AGIS, GRADE 60.

FINLEY MCNARY/JANSSEN SPAANS

o Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721

Jonssen 1 Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

DR. BY J.L.S. 1/96
OH. BY CW.M. 1/96
SUPV. H.D.R. 1/96 REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (17)

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> FOR STANDARD BAR BENDING DETAILS. SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTN. A615. GRADE 60.

FINLEY McNARY/JANSSEN SPAANS a Joint Venture

Finley McNary Engineers, Inc. 1391 Timberlane Road Suite 200 Tallahassee, Flarida 32312-1721 Jonssen & Spagns Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

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FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Flarida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapolis, Indiana 46220

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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (20)

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NOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTN. A615. GRADE 60.



FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc 1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapalis, Indiana 46220

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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (21)

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1 P35 5 - 8 38 18 1 3 4 - 6 FOR STANDARD BAR BENDING DETAILS. SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTN. A615, GRADE 60. 2 ~ 8 - 1/2 FINLEY McNARY/JANSSEN SPAANS a Jaint Venture Janssen & Spaans Engineers, Inc. Finley McNary Engineers, Inc 6 MAY 46 1391 Timberlane Racd Suite 200 Tallahassee, Flarida 32312-1721 2825 East 56th Street Indianapolis, Indiana 46220

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MIDPOINT BRIDGE

REINFORCING BAR LIST (22)

BOARD OF COUNTY COMMISSIONERS

LEE, COUNTY, FLORIDA

DEPARTMENT OF TRANSPORTATION

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REINFORCING BAR LIST (23)

DEPARTMENT OF TRANSPORTATION

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FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (25)

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FINLEY MCNARY/JANSSEN SPAANS

a Joint Venture

Finley McNary Engineers, Inc. 1391 Timperlane Road Suite 200 Tallahassee, Flarida 32312-1721 Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapalis, Indiana 46220

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

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NOTE:
FOR STANDARD BAR BENDING DETAILS, SEE
SHEET A-6. REINFORCING STEEL SHALL BE
ASTM, A615, GRADE 60.

MIDPOINT BRIDGE

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REVISIONS

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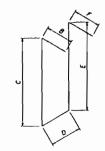
SUPERSTRUCTURE UNIT H (SPANS 28 THRU 3D)

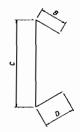
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TYPE 45





TYPE 47



TYPE 48

FOR STANDARD BAR BENDING DETAILS. SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM. A615, GRADE 60.

FINLEY McNARY/JANSSEN SPAANS

Joint Venture

1391 Timberlane Road Suite 200 Tallahassee, Florida 32312-1721

2825 East 56th Street Indianapolis, Indiana 46220

REVISIONS NAME DATE 1/96 DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY DESCRIPTION DATE BY JLS. CHK. BY C.W.N. 1/96 SUPV. H.D.R. 1/96

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SUPERSTRUCTURE UNIT B & C (SPANS 4 THRU 11)(2 REQUIRED)

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SUPERSTRUCTURE UNIT D (SPANS 12 THRU 15)

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FINLEY MCNARY/JANSSEN SPAANS

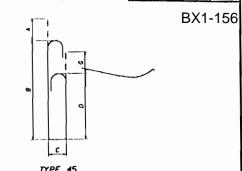
BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCMENT BAR LIST (28)

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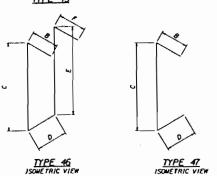
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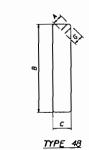
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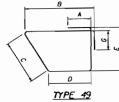
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5896









MOTE: FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-6. REINFORCING STEEL SHALL BE ASTM, AG15, GRADE 60.



FINLEY McNARY/JANSSEN SPAANS

a Joint Venture

Finley McNery Engineers, Inc 1391 Timper one Road Suite 200 Tallahassee, Forida 32312-1721

Janssen & Spaans Engineers, Inc. 2825 East 56th Street Indianapalis, Indiana 46220

					REVIS	SIONS						HAME	DATE
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											SUPV.	HDR.	1/96

FINLEY MCNARY/JANSSEN SPAANS

BOARD OF COUNTY COMMISSIONERS LEE, COUNTY, FLORIDA
DEPARTMENT OF TRANSPORTATION

MIDPOINT BRIDGE REINFORCING BAR LIST (29)

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED

COUNTY ROAD NO. 884

LEE COUNTY CONTRACT NO. C861114

PROJECT NO. 5896 BID PACKAGE 2

LEE COUNTY MIDPOINT CORRIDOR PROJECT

INDEX OF ROADWAY LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-I	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	POLE DATA AND LEGEND
L-4 TO L-7	LIGHTING PLANS
L-8	LIGHTING DETAILS

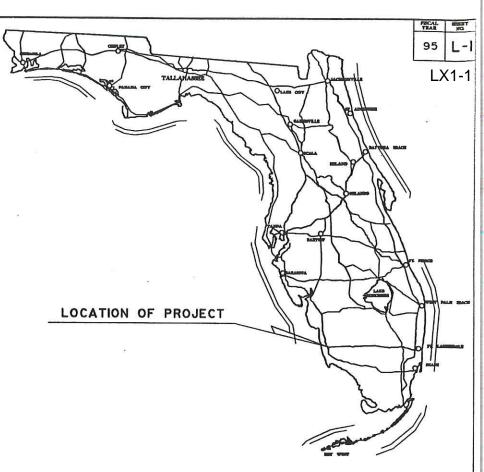
LIGHTING PLANS

A5- Builts

Conformed

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA. DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATED JANUARY, 1994).





PLANS PREPARED

CONSULTING ENGINEERS

TAMPA, FLORIDA

LIGHTING PLANS ENGINEER OF RECORD LUIS RODRIGUEZ, P.E. P.O. BOX 31646 TAMPA, FLORIDA 33631-3416 (813)286-1711

THIS SEAL APPLIES TO THESE PROJECT DRAWINGS AS THEY EXISTED ON JAN. 31, 95 AND DOES NOT APPLY TO OR CERTIFY THE ACCURACY OF REVISIONS MADE BY OTHERS

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CON-SIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS STATE OF FLORIDA. DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 1991 AND SUPPLEMENTS THERETO.

LIGHTING PLANS LUIS RODRIGUEZ, P.E. DATE: ___JAN. -31-95

LEE COUNTY PROJECT MANAGER: MR. PAUL W. WINGARD, P.E.

DATE BY

INCLUDES CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE,
TRENCHING AND BACKFILL AS PER THE PLANS AND STANDARD
INDEXES. INCLUDES COST FOR 2 COATS OF COAL-TAR COATING
FOR RGS CONDUIT INSTALLED UNDER PAVEMENT. THE LINEAR
FT. PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF
RESTORING CUT PAVEMENT, SIDEWALKS, SOD, ETC., TO ITS
ORIGINAL CONDITION.

DATE BY

TABULATION OF QUANTITIES

BID											SI	HEET	NUMBEI	RS									TOTAL	THIS	GR.	AND	REFERENC
ITEM NO.	DESCRIPTION	UNIT	I L	L-4 L-5 L-6 L-7 RIG FINAL ORIG FINAL ORIG FINAL ORIG FINAL ORIG FINAL ORIG FINAL ORIG FINAL ORIG FINAL ORIG									SHEET		TOTAL		SHEET										
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620-1-1	GROUNDING ELECTRODE (F & I)	LF	-		-		-		50	50													50	50	50	50	F.13, 6
715-1-113	CONDUCTOR (F. & I) (INSULATED) (NO. 6)	LF	220	220	3780	3510	5050	4800	4860	4250			5%	oF	Tot	-aL	7/	639	L.F				13910	13419	13910	13419	F.13. #6
715-1-114	CONDUCTOR (F & I) (INSULATED) (NO. 4)	LF	450	948	7560	7020	13550	12630	13900	12730			5%	oF	tate	aL.	ئ	1,642	L.F.			**	35460	34482	35460	34482	F.13 126
715-2-115	CONDUIT (F & I UNDERGROUND) (PVC SCHEDULE 40) (1 1/4")	LF	=		-		-		20	20													20	20	20	20	F.13. # 6
715-474-140	LIGHTING POLE COMPLETE (F & I WITH INTERNAL VIBRATION DAMPERS) (DOUBLE ARM WALL MTD.) (ALUM) (40')	EA	1	1	10	10	10	16	8	8													29	29	29	29	FIB #G

715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA	-		-		-		1	1													1	-	1	/	F.13. #6

LUIS RODRIGUEZ, P.E.

PAY ITEM FOOTNOTES

REVISIONS
DATE BY

620-I GROUNDING ELECTRODE

INCLUDES THE COST OF GROUNDING ELECTRODE AND ALL NECESSARY HARDWARE AS PER THE PLANS AND STANDARD INDEXES. INSTALL 50' VERTICAL, 5/8" GND. ROD AT SERVICE POINT.

715-I CONDUCTOR

INCLUDES CONDUCTORS AS PER THE PLANS AND STANDARD INDEXES. PAYMENT SHALL BE MADE BASED ON LINEAR FT. OF SINGLE CONDUCTOR.

715-2 CONDUIT

DESCRIPTION

715-4 LIGHTING POLE

INCLUDES THE POLE, BRACKET ARM, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, FRANGIBLE BASE, FOUNDATION, SURGE PROTECTOR, FUSE HOLDERS WITH FUSES, AND THE NO. 10 COPPER RISERS AS PER THE PLANS AND STANDARD INDEXES.

715-7 LOAD CENTER - SQUARE "D" (ONLY)

DESCRIPTION

INCLUDES THE CONCRETE PEDESTAL, ENCLOSURE, CONTACTOR, TRANSFORMER, BREAKER, SAFETY SWITCH, H.O.A. SWITCH, SURGE ARRESTER, FUSES, PHOTOELECTRIC SWITCH, METER BASE AND ALL EXTERNAL AND INTERNAL CONDUIT AND CONDUCTORS FOR THE SERVICE AS PER THE PLANS AND STANDARDS INDEXES.

715-14 PULL BOXES - QUAZITE, HEAVY DUTY (ONLY)

INCLUDES THE PULL BOX AND COVER AS PER THE PLANS AND STANDARD INDEXES. PULL BOXES SHOWN AT STATION 3187 SHALL BE INSTALLED UNDER BID PACKAGE 3.

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TABULATION OF QUANTITIES

PROJECT NO. CONVENTIONAL LIGHTING DESIGN CRITERIA 5896-2 L-3 AVERAGE INITIAL INTENSITY POLE DATA 1.0 F.C. UNIFORMITY RATIO AVG/MIN 4/I OR LESS LX1-3 POLE MAX/MIN 10/1 OR LESS CKT STATION LUM POLE SETBACK & NOTES | FIN MH OR ARM WIND SPEED M.P.H. PI BI 2115+85 B BRIDGE 8'/8' 250/250 40' MEDIAN EARRIER WALL P2 2118+35 BI CHECKED BOXES P3 BI 2120+85.25 UTILIZED IN P4 ВІ 2123+35 LEGEND P5 BI 2125+85 PLAN PACKAGE SYMBOL DESCRIPTION P6 2128+35.08 P7 **B2** 2130+85 400WATT HIGH PRESSURE SODIUM LUMINAIRE DESIGNED FOR MEDIUM NON CUTOFF, TYPE 3 DISTRIBUTION. INTEGRAL MAGNETIC P8 2133+35 REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 45'. USE GE M-400 A2, CURVE #35-177352 OR EQUAL. **B2** P9 2135+85 **B2** PIO 2138+35 **B2** 250WATT HIGH PRESSURE SODIUM LUMINAIRE DESIGNED FOR MEDIUM, NON CUTOFF, TYPE 3 DISTRIBUTION. INTEGRAL MAGNETIC PII **B2** 2140+85 REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION .MOUNTING HEIGHT 40'. USE GE M-400 A2 WITH CHARCOAL FILTER CURVE #35-177322 OR EQUAL. PIZ 2143+35 PI3 2145+85 **B2** SPECIAL DESIGN POLE WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE DESIGNED FOR MEDIUM, NON CUTOFF, TYPE 3 DISTRIBUTION. P14 2148+35 **B2** INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40'. USE GE M-400 A2, CURVE PI5 **B3** 2150+85 #35-177322 OR EQUAL. (SEE DETAIL ON SHEET NO.). P16 **B3** 2153+35 PIZ **B3** 2155+85 C>-0 EXISTING POLE AND LUMINAIRE TO REMAIN. P18 **B3** 2158+35 C>₩0 EXISTING POLE AND LUMINAIRE TO BE REMOVED. P19 **B3** 2160+85 P20 **B3** 2163+35 HIGH MAST TOWER WITH FOUR 1000 WATT HIGH PRESSURE SODIUM LUMINAIRES WITH INTEGRAL AUTO-REGULATOR TYPE BALLAST WIRED FOR 480 VOLTS. THE LUMINAIRES SHALL PROVIDE A "CUTOFF" LIGHT DISTRIBUTION AS DEFINED BY IES. SHIELDS MAY P21 **B3** 2165+85 BE UTILIZED TO PROVIDE THE CUTOFF VALUES (SEE INDEX 17502.) USE G.E. CURVE #35-176318 OR EQUAL. LUMINAIRES TO P22 **B3** 2168+35 BE G.E. CAT. #HMAOIS5AIGSC5 OR EQUAL. P23 **B3** 2170+85 P24 **B3** 2173+35 PENDANT HUNG UNDERDECK LUMINAIRE, 150 WATT HIGH PRESSURE SODIUM, WITH POLYCARBONATE REFRACTOR, INTEGRAL MAGNETIC P25 2175+85 REGULATOR BALLAST WIRED FOR 480 VOLTS. LUMINAIRE TO BE MOUNTED FLUSH WITH BOTTOM OF BRIDGE BEAM. (USE GE MINIMITE P26 **B3** 2178+35 LUMINAIRE, CURVE #35-176025 OR EQUAL). P27 **B3** 2180+85 P28 **B3** 2183+35 PIER CAP MOUNTED UNDERDECK LUMINAIRE, 150 WATT HIGH PRESSURE SODIUM, WITH POLYCARBONATE REFRACTOR, INTEGRAL MAGNETIC REGULATOR BALLAST WIRED FOR 480 VOLTS. LUMINAIRE TO BE MOUNTED FLUSH WITH BOTTOM OF BRIDGE BEAM. (USE GE MINIMITE P29 **B3** 2185+85 LUMINAIRE, CURVE #35-176025 OR EQUAL). ------ I 1/4"C. SCHEDULE 40 PVC CONDUIT WITH AWG, THWN CONDUCTORS INSIDE (CONDUCTOR SIZE SHOWN ON PLANS) & 1#6 AWG, TW GREEN BOND (COPPER) RUN INSIDE CONDUIT UNLESS OTHERWISE NOTED ON PLANS. (SEE INDEX 17721). I 1/4" SCHEDULE 40 PVC CONDUIT EMBEDDED IN THE BARRIER WALL WITH AWG, THWN CONDUCTORS INSIDE (CONDUCTOR SIZE SHOWN ON PLANS) & 1#6 TW GREEN BOND (COPPER) RUN INSIDE CONDUIT. 2" RIGID GALV. STEEL CONDUIT AT ROADWAY CROSSINGS WITH AWG, THWN CONDUCTORS INSIDE (CONDUCTOR SIZE SHOWN ON PLANS) AND 1#6 AWG, TW GREEN BOND (COPPER) RUN INSIDE CONDUIT. EXTEND CONDUIT BEYOND EDGE OF PROPOSED PAVEMENT TO PULL BOXES. Γþ SERVICE POINT LOAD CENTER (SEE INDEX 17504). PULL BOX (SEE INDEX 17503). PULL BOXES ARE REQUIRED AT BOTH ENDS OF CONDUIT AT ROADWAY CROSSINGS AND AS NECESSARY FOR THE COMPLETION OF THE PROJECT. \boxtimes PULL BOX IN CONCRETE STRUCTURE. SEE BRIDGE PLANS. OVERHEAD LIGHTED SIGN. (SEE INDEX 17505 AND SIGNING DRAWINGS) QHT-3 2) KEY TO LIGHT POLE LABELING NOTES: STATION I. FOR GENERAL NOTES SEE INDEX 17501 "ROADWAY AND TRAFFIC DESIGN 250-00 STANDARDS" BOOKLET DATED JANUARY 1994. ALL INDEX REFERENCES P5 B2 J ABOVE ARE FOUND IN THIS BOOKLET. SERVICE PANEL POLE NO. & CKT. NO. * SEE TOLL PLAZA DRAWINGS FOR STANDBY CIRCUIT. REVISIONS BY LEE COUNTY DEPARTMENT OF DATE BY DESCRIPTION DATE BY DESCRIPTION DESCRIPTION DATE BY DESCRIPTION TRANSPORTATION

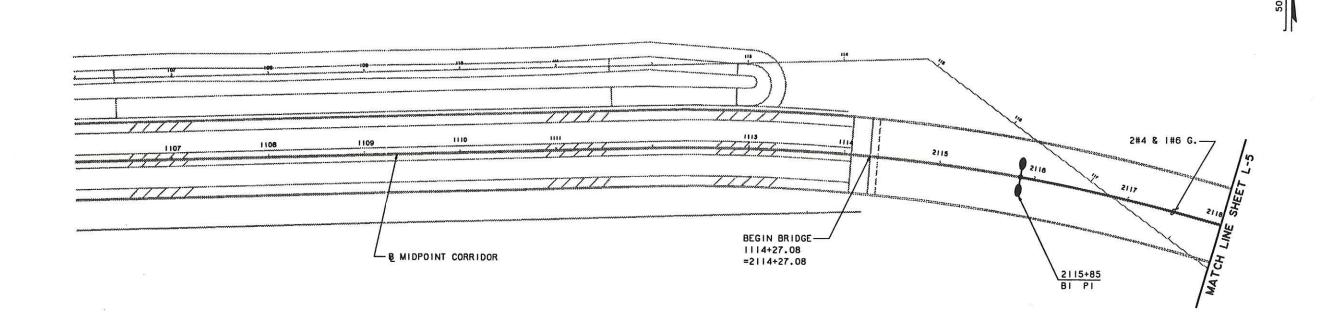
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LUIS RODRIGUEZ, P.E.

POLE DATA AND LEGEND

PROJECT NO. 5896-2 L-4

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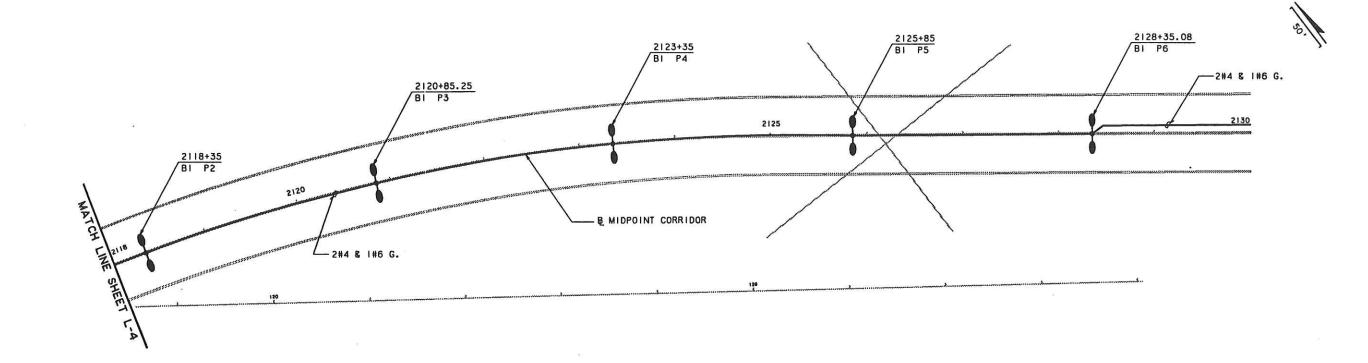
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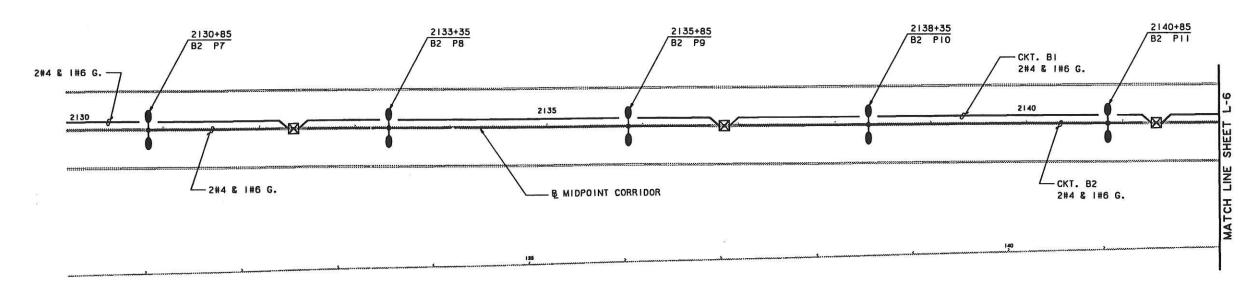
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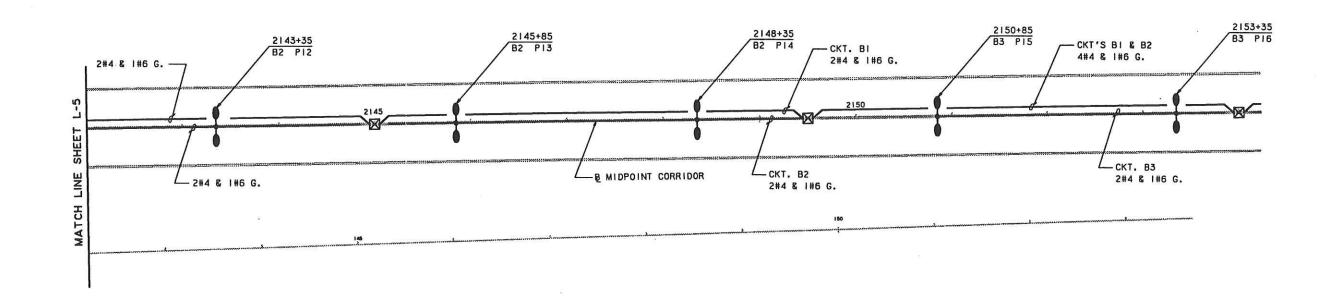
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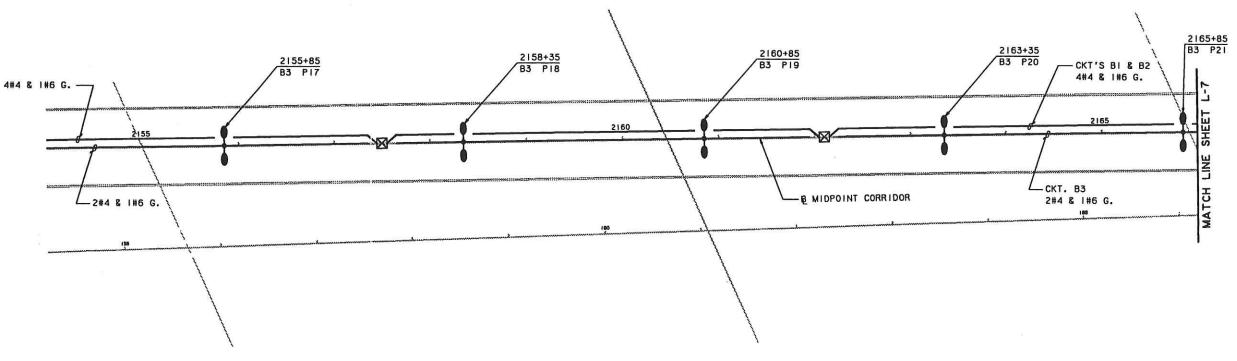
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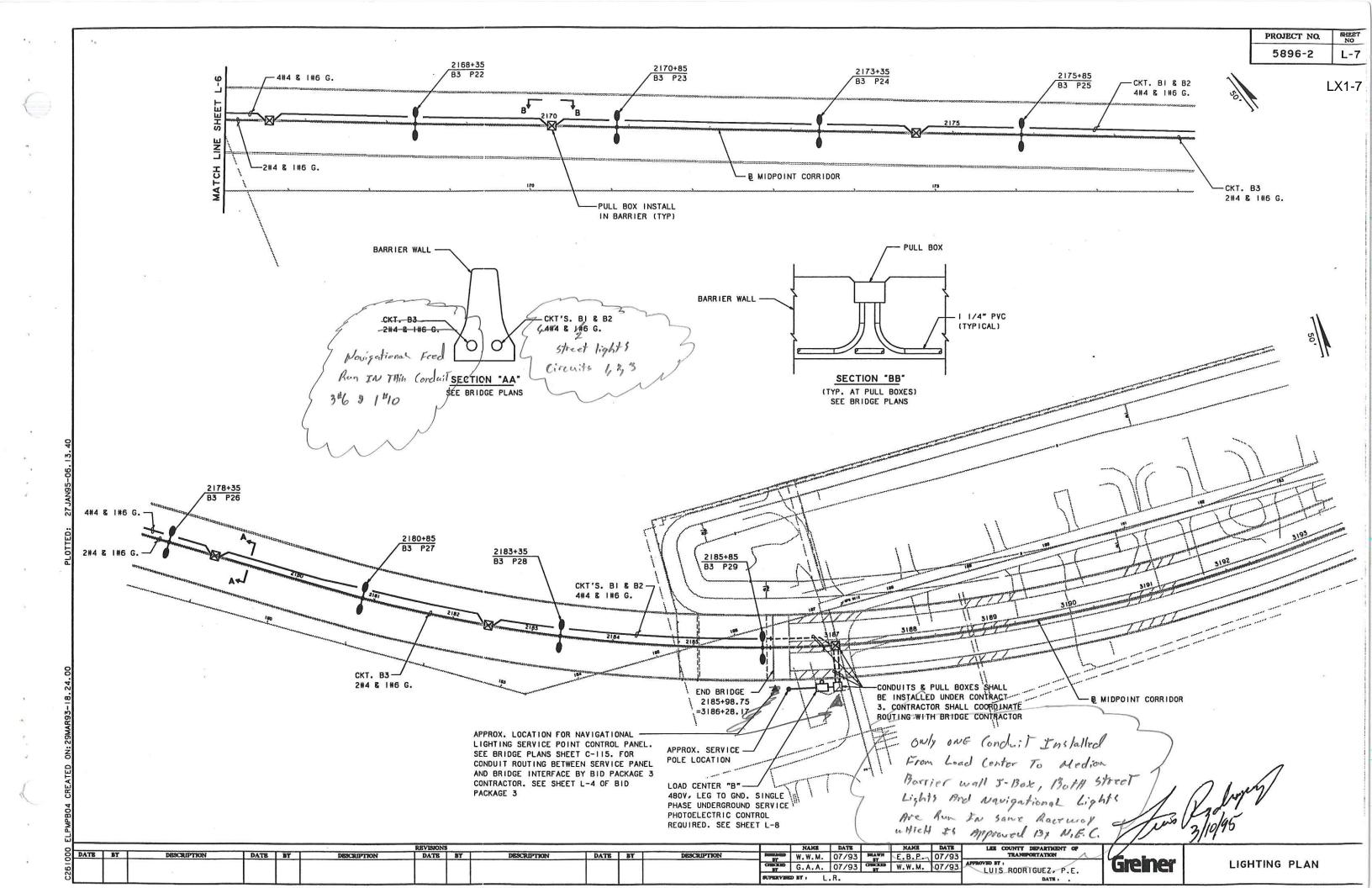
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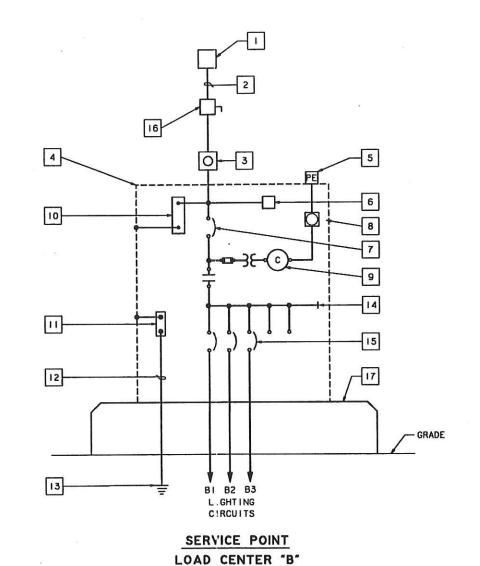
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PROJECT NO. 5896-2

LX1-8



N.T.S.

SERVICE POINT LEGEND

SERVICE POINT CONNECTION PEDESTAL TO POWER CO. 480V. TO GROUND SINGLE PHASE UNDERGROUND SERVICE. COORDINATE WITH FLORIDA POWER AND LIGHT CORP.

UNDERGROUND SERVICE CONDUCTOR, 2#3 THWN CU IN 2" RGS CONDUIT.

POWER COMPANY METER.

SERVICE CABINET NEMA 3R, PEDESTAL MOUNTED.

PHOTOELECTRIC SWITCH - 120V, 2000W. SPST.

SURGE ARRESTER-650V, CATEGORY "C".

MAIN CIRCUIT BREAKER 480V, 2P. (USE ONE POLE ONLY) SEE TABLE BELOW.

H.O.A. SELECTOR SWITCH.

ELECTRICALLY HELD LIGHTING CONTACTOR WITH 480-120V. 2000VA CPT, IA, FUSE.

NEUTRAL BUS CU. - 100A - BONDED.

GROUND BUS - CU.

15

GROUNDING CONDUCTOR #6 AWG.

GROUND ROD-CU. 5/8" DIA. X 50' LONG

DISTRIBUTION BUS-CU. 100A

BRANCH CIRCUIT BREAKERS-BOLT ON, 480V. 2P. (USE ONE POLE ONLY) SEE TABLE BELOW.

LOADBREAK DISCONNECT SWITCH, 100A, 600V, 2P, UNFUSED, LOCKABLE ENCOSURE, NEMA 3R > NoTingtalled (0.17 per Richard Epps)

CONCRETE PEDESTAL, SEE INDEX 17841 FOR TYPICAL ARRANGEMENT.

CONCRETE PEDESTAL. SEE INDEX 17841 FOR TYPICAL ARRANGEMENT.

Service For NAVIGATIONAL Lights IS Run HARU Load center (Raceway) (anduit, Some AS Feed For street Lights

LOAD CENTER	TOTAL	CONTACTOR	MAIN					BR	ANCH	CIRCU	ITS					545		
	CONNECTED	RATING	BKR.		NO. B1			NO. B2		NO. B3			NO. B4			NO. B5		
	(AMPS)	(AMPS)	(AMPS)	LOAD	BKR.	WIRE	LOAD	BKR.	WIRE	LOAD	BKR.	WIRE	LOAD	BKR.	WIRE	LOAD	BKR.	WIRE
В	40.6	100	100A	8.4	40A	NO.4	11.2	40A	NO.4	21.0	40A	NO.4		SPACE			SPACE	

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Greiner

LIGHTING DETAILS

SHEET	TABLE OF CONTENTS								
1	General Notes, TTC Tables								
	Definitions								
	Temporary Traffic Control Devices								
2	Overhead Work								
2	Railroads								
	Sight Distance								
	Above Ground Hazard								
	Clear Zone Widths For Work Zones								
	Superelevation								
	Length Of Lane Closures								
3	Overweight/Oversize Vehicles								
	Lane Widths								
	High-Visibility Safety Apparel								
	Speed Reduction Signing								
	Flagger Control								
4	Survey Work Zones								
	Signs								
5	Work Zone Sign Supports								
6	Commonly Used Warning and Regulatory Signs In Work Zones								
	Manholes/Crosswalks/Joints								
	Truck Mounted Attenuators								
7	Signals								
,	Channelizing Devices								
	Channelizing Devices Consistency								
	Advanced Warning Arrow Boards								
8	Drop-Offs In Work Zones								
9	Business Entrance								
	Temporary Asphalt Separator								
10	Channelizing Devices Notes								
	Temporary Barrier Notes								
11	Pavement Markings								

GENERAL NOTES:

- 1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
- 2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
- 3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1									
CHANNELIZING DEVICE SPACING									
Work		Max.	Spacing (feet,)					
Zone Speed (mph)	Cone Temp Tubular	orarv	Type I Barricades, Type II Barricades, Vertical Panels, or Drum						
' ' '	Taper	Tangent	Taper	Tangent					
≤ 45	25	50	25	50					
≥ 50	25	50	50	100					

I AB	LE 2
TAPER LE	NGTH "L"
Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	L = WS
	idth of offset n feet need in mph

TAB	LE 3
WORK ZONE SIG	GN SPACING "X"
Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways *	1,500
	rs with work zone speed ≤ 55 may be reduced in accordance proved by the Engineer.

TAB	LE 4
BUFFER L	ENGTH "B"
Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
7.0	7.20

	_
SYMBOLS:	
Work Area	
■ Channelizing Device	
[] Work Zone Sign	
Type III Parricade	

Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.

∑ Type III Barricade

Lane Identification and Direction of Traffic

DESCRIPTION:

102-600

1 of 11

Advisory Speed

The maximum recommended travel speed through a curve or a hazardous area.

Travel Way

The portion of the roadway for the movement of vehicles. For traffic control through work zones, travel way may include the temporary use of shoulders and any other permanent or temporary surface intended for use as a lane for the movement of vehicular traffic.

- a. Travel Lane: The designated widths of roadway pavement marked to carry through traffic and to separate it from opposing traffic or traffic occupying other traffic lanes.
- b. Auxiliary Lane: The designated widths of roadway pavement marked to separate speed change, turning, passing and climbing maneuvers from through traffic.

Detour, Lane Shift, and Diversion

A detour is the redirection of traffic onto another roadway to bypass the temporary traffic control zone. A lane shift is the redirection of traffic onto a different section of the permanent pavement. A diversion is the redirection of traffic onto a temporary roadway, usually adjacent to the permanent roadway and within the limits of the right of way.

Aboveground Hazard

An aboveground hazard is any object, material or equipment other than traffic control devices that encroaches upon the travel way or that is located within the clear zone which does not meet the Department's safety criteria, i.e., anything that is greater than 4" in height and is firm and unyielding or doesn't meet breakaway requirements.

TEMPORARY TRAFFIC CONTROL DEVICES:

- 1. All temporary traffic control devices shall be ON the Department's Approved Products List (APL). Ensure the appropriate APL number is permanently marked on the device in a readily visible location.
- 2. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate shall be removed or covered. Do not store temporary traffic control devices on the shoulder, sidewalk, or other roadway facility not affected by the work when work is suspended.
- 3. Arrow Boards, Portable Changeable Message Signs, Radar Speed Display Trailer, Portable Regulatory Signs, and any other trailer mounted device shall be delineated with a channelizing device placed at each corner when in use and shall be moved outside the travel way and clear zone or be shielded by a barrier or crash cushion when not in use.

OVERHEAD WORK:

Work is only allowed over a traffic lane when one of the following options is used:

OPTION 1 (OVERHEAD WORK USING A MODIFIED LANE CLOSURE)

Overhead work using a modified lane closure is allowed if all of the following conditions are met:

- a. Work operation is located in a signalized intersection and limited to signals, signs, lighting and utilities.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- e. Aerial lift equipment is placed directly below the work area to close the lane.
- f. Traffic control devices are placed in advance of the vehicle/equipment closing the lane using a minimum 100 foot taper.
- g. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.

OPTION 2 (OVERHEAD WORK ABOVE AN OPEN TRAFFIC LANE)

Overhead work above a open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within an area bounded by 2 feet outside the edge of travel way and 18 feet high.
- e. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- f. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- g. Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OPTION 3 (OVERHEAD WORK ADJACENT TO AN OPEN TRAFFIC LANE)

Overhead work adjacent to an open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b .Work operations are 1 day or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within 2 foot from the edge of travel way up to 18' height. Above 18' in height, no encroachment by any part of the work activities and equipment over the open traffic lane (except as allowed in Option 2 for work operations of 60 minutes or less).
- e. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- f. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- g. Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OVERHEAD WORK: (Cont.)

OPTION 4 (OVERHEAD WORK MAINTAINING TRAFFIC WITH NO ENCROACHMENT BELOW THE OVERHEAD WORK AREA)

Traffic shall be detoured, shifted, diverted or paced as to not encroach in the area directly below the overhead work operations in accordance with the appropriate index drawing or detailed in the plans. This option applies to, but not limited to, the following construction activities:

- a. Beam, girder, segment, and bent/pier cap placement.
- b. Form and falsework placement and removal.
- c. Concrete placement.
- d. Railing construction located at edge of deck.
- e. Structure demolition.

OPTION 5 (CONDUCTOR/CABLE PULLING ABOVE AN OPEN TRAFFIC LANE)

Overhead cable and/or de-energized conductor installations initial pull to proper tension shall be done in accordance with the appropriate Index or temporary traffic control plan.

Continuous pulling operations of secured cable and/or conductors are allowed over open lane(s) of traffic with no encroachment by any part of the work activities, materials or equipment within the minimal vertical clearance above the travel way. The utility shall take precautions to ensure that pull ropes and conductors/cables at no time fall below the minimum vertical clearance.

On Limited Access facilities, a site specific temporary traffic control plan is required. The temporary traffic control plan shall include:

- a. The temporary traffic control set up for the initial pulling of the pull rope across the roadway.
- b. During pulling operations, advance warning consisting of no less than a Changeable Message Sign upstream of the work area with alternating messages, "Overhead Work Ahead" and "Be Prepared to Stop" followed by a traffic control officer and police vehicle with blue lights flashing during the pulling operation.

RAILROADS:

Railroad crossings affected by a construction project should be evaluated for traffic controls to reduce queuing on the tracks. The evaluation should include as a minimum: traffic volumes, distance from the tracks to the intersections, lane closure or taper locations, signal timing, etc.

SIGHT DISTANCE:

- 1. Tapers: Transition tapers should be obvious to drivers. If restricted sight distance is a problem (e.g., a sharp vertical or horizontal curve), the taper should begin well in advance of the view obstruction. The beginning of tapers should not be hidden behind curves.
- 2. Intersections: Traffic control devices at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely. Construction equipment and materials shall not restrict intersection sight distance.

ABOVEGROUND HAZARD:

- 1. Aboveground hazards (see definitions) are to be considered work areas during working hours and treated with appropriate work zone traffic control procedures. During nonworking hours, all objects, materials and equipment that constitute an aboveground hazard must be stored/placed outside the travel way and clear zone or be shielded by a barrier or crash cushion.
- 2. For aboveground hazards within a work zone the clear zone required should be based on the regulatory speed posted during construction.

10.53.50

TABLE 5 CLEAR ZONE WIDTHS FOR WORK ZONES

WORK ZONE SPEED (MPH)	TRAVEL LANES & MULTILANE RAMPS (feet)	AUXILIARY LANES & SINGLE LANE RAMPS (feet)
60-70	30	18
55	24	14
45-50	18	10
30-40	14	10
ALL SPEEDS CURB & GUTTER	4' BEHIND FACE OF CURB	4' BEHIND FACE OF CURB

NOTE: For temporary conditions where existing curb has been removed but not reconstructed, curb and gutter values may be used.

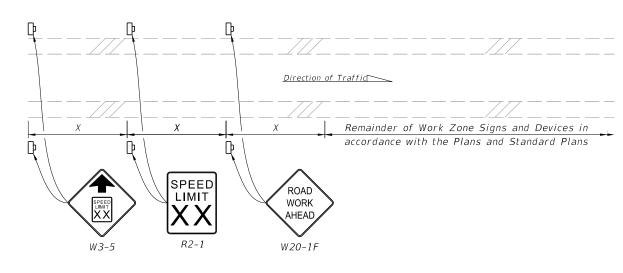
SUPERELEVATION:

Horizontal curves constructed in conjunction with work zone traffic control should have the required superelevation applied to the design radii. Under conditions where normal crown controls curvature, the minimum radii that can be applied are listed in the table below.

TABLE 6		
MINIMUM RADII FOR NORMAL CROWN		
WORK ZONE POSTED SPEED	MINIMUM RADIUS	
MPH	feet	
70	4090	
65	3130	
60	2400	
55	1840	
50	1390	
45	1080	
40	820	
35	610	
30	430	
Superelevate When Smaller		
Radii is Used		

LENGTH OF LANE CLOSURES:

For interstates and state highways with a posted speed of 55MPH or greater, lane closures must not exceed 3 miles (includes taper, buffer, and work zone) in any given direction and must not close two consecutive interchanges.



NOTES:

- 1. X = Work Zone Sign Spacing
- 2. When called for in the Plans, use this detail in accordance with the Plans and Standard Plans. Place the speed reduction signs (W3-5 and R2-1) in advance of the "Road Work Ahead" sign (W20-1F) as shown.
- 3. Do not use this detail in conjunction with the Motorist Awareness System.
- 4. For speed reductions greater than 10 MPH, reduce the speed in 10 MPH increments of 'X' distance. Do not reduce the speed below the minimum statutory speed for the class of facility.
- 5. Place additional "Speed Limit" signs (R2-1) at intervals of no more than one mile for rural conditions and 1.000 feet for urban conditions.
- 6. For undivided roadways, omit the signs shown in the median.
- 7. Remove temporary regulatory speed signs as soon as the conditions requiring the reduced speed no longer exist. Once the work zone regulatory speeds are removed, the regulatory speed existing prior to construction will automatically go back into effect.

= SPEED REDUCTION SIGNING =====

OVERWEIGHT/OVERSIZE VEHICLES:

Restrictions to Lane Widths, Heights or Load Capacity can greatly impact the movement of over dimensioned loads. The Contractor shall notify the Engineer who in turn shall notify the State Permits Office, phone no. (850) 410–5777, at least seven calendar days in advance of implementing a maintenance of traffic plan which will impact the flow of overweight/oversized vehicles. Information provided shall include location, type of restriction (height, width or weight) and restriction time frames. When the roadway is restored to normal service the State Permits Office shall be notified immediately.

LANE WIDTHS:

Lane widths of through roadways should be maintained through work zone travel ways wherever practical. Provide minimum widths for work zone travel lanes as follows: 11' for Interstate with at least one 12' lane provided in each direction, unless formally excepted by the Federal Highway Administration; 11' for all other limited access roadways; and 10' for all other facilities.

HIGH-VISIBILITY SAFETY APPAREL:

All high-visibility safety apparel shall meet the requirements of the International Safety Equipment Association (ISEA) and the American National Standards Institute (ANSI) for "High-Visibility Safety Apparel", and labeled as ANSI/ISEA 107-2004 or newer. The apparel background (outer) material color shall be either fluorescent orange-red or fluorescent yellow-green as defined by the standard. The retroreflective material shall be orange, yellow, white, silver, yellow-green, or a fluorescent version of these colors, and shall be visible at a minimum distance of 1,000 feet. Class 3 apparel may be substituted for Class 2 apparel. Replace apparel that is not visible at 1,000 feet.

WORKERS: All workers within the right-of-way shall wear ANSI/ISEA Class 2 apparel. Workers operating machinery or equipment in which loose clothing could become entangled during operation shall wear fitted high-visibility safety apparel. Workers inside the bucket of a bucket truck are not required to wear high-visibility safety apparel.

UTILITIES: When other industry apparel safety standards require utility workers to wear apparel that is inconsistent with FDOT requirements such as NFPA, OSHA, ANSI, etc., the other standards for apparel may prevail.

FLAGGERS: For daytime activities, Flaggers shall wear ANSI/ISEA Class 2 apparel. For nighttime activities, Flaggers shall wear ANSI/ISEA Class 3 apparel.

The flagger must be clearly visible to approaching traffic for a distance sufficient to permit proper response by the motorist to the flagging instructions, and to permit traffic to reduce speed or to stop as required before entering the work site. Flaggers shall be positioned to maintain maximum color contrast between the Flagger's high-visibility safety apparel and equipment and the work area background.

Hand-Signaling Devices

STOP/SLOW paddles are the primary hand-signaling device. The STOP/SLOW paddle shall have an octagonal shape on a rigid handle. If the STOP/SLOW paddle is placed on a rigid staff, the minimum length of the staff, measured from the bottom of the paddle to the end of the staff that rests on the ground, must not be less than 6 ft. STOP/SLOW paddles shall be at least 24 inches wide with letters at least 6 inches high and should be fabricated from light semirigid material. The background of the STOP face shall be red with white letters and border. The background of the SLOW face shall be orange with black letters and border. When used at night-time, the STOP/SLOW paddle shall be retroreflectorized.

Flag use is limited to immediate emergencies, intersections, and when working on the centerline or shared left turn lanes where two (2) flaggers are required and there is opposing traffic in the adjacent lanes. Flags, when used, shall be a minimum of 24 inches square, made of a good grade of red material, and securely fastened to a staff that is approximately 36 inches in length. When used at nighttime, flags shall be retroreflectorized red.

Flashlight, lantern or other lighted signal that will display a red warning light shall be used at night.

Flagger Stations

Flagger stations shall be located far enough in advance of the work area so that approaching road users will have sufficient distance to stop before entering the work area. When used at nighttime, the flagger station shall be illuminated.

SURVEY WORK ZONES:

The SURVEY CREW AHEAD symbol or legend sign shall be the principal Advance Warning Sign used for Traffic Control Through Survey Work Zones and may replace the ROAD WORK AHEAD sign when lane closures occur, at the discretion of the Party Chief.

When Traffic Control Through Work Zones is being used for survey purposes only, the END ROAD WORK sign as called for on certain 102 Series of Indexes should be omitted.

Survey Between Active Traffic Lanes or Shared Left Turn Lanes

The following provisions apply to Main Roadway Traffic Control Work Zones. These provisions must be adjusted by the Party Chief to fit roadway and traffic conditions when the Survey Work Zone includes intersections.

- (A) A STAY IN YOUR LANE (MOT-1-06) sign shall be added to the Advance Warning Sign sequence as the second most immediate sign from the work area.
- (B) Elevation Surveys-Cones may be used at the discretion of the Party Chief to protect prism holder and flagger(s). Cones, if used, may be placed at up to 50' intervals along the break line throughout the work zone.

SURVEY WORK ZONES: (Cont.)

- (C) Horizontal Control-With traffic flow in the same direction, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' towards the flow of traffic.
- (D) Horizontal Control-With traffic flow in opposite directions, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' in both directions towards the flow of traffic.

SIGNS:

SIGN MATERIALS

Mesh signs and non-retroreflectice vinyl signs may only be used for daylight operations. Non-retroreflectice vinyl signs must meet the requirements of Specifications Section 994.

Retroreflective vinyl signs meeting the requirements of Specification Section 994 may be used for daylight or night operations not to exceed 1 day except as noted in the Indexes.

Rigid or Lightweight sign panels may be used in accordance with the vendor APL drawing for the sign stand to which they are attached.

INTERSECTING ROAD SIGNING

Signing for the control of traffic entering and leaving work zones by way of intersecting crossroads shall be adequate to make drivers aware of work zone conditions. When Work operations exceed 60 minutes, place the ROAD WORK AHEAD sign on the side street entering the work zone.

ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING

Adjoining work zones may not have sufficient spacing for standard placement of signs and other traffic control devices in their advance warning areas or in some cases other areas within their traffic control zones. Where such restraints or conflicts occur or are likely to occur, one of the following methods will be employed to avoid conflicts and prevent conditions that could lead to misunderstanding on the part of the traveling public as to the intended travel way by the traffic control procedure applied:

- (A) For scheduled projects the engineer in responsible charge of project design will resolve anticipated work zone conflicts during the development of the project traffic control plan. This may entail revision of plans on preceding projects and coordination of plans on concurrent projects.
- (B) Unanticipated conflicts arising between adjoining in progress highway construction projects will be resolved by the Resident Engineer for projects under his residency, and, by the District Construction Engineer for in progress projects under adjoining residencies.
- (C) The District Maintenance Engineer will resolve anticipated and occurring conflicts within scheduled maintenance operations.
- (D) The Unit Maintenance Engineer will resolve conflicts that occur within routine maintenance works; between routine maintenance work, unscheduled work and/or permitted work; and, between unit controlled maintenance works and highway construction projects.

SIGNS: (Cont.)

SIGN COVERING AND INTERMITTENT WORK STOPPAGE SIGNING

Existing or temporary traffic control signs that are no longer applicable or are inconsistent with intended travel paths shall be removed or fully covered.

Sign blanks or other available coverings must completely cover the existing sign. Rigid sign coverings shall be the same size as the sign it is covering, and bolted in a manner to prevent movement.

Sign covers are incidental to work operations and are not paid for separately.

SIGNING FOR DETOURS, LANE SHIFTS AND DIVERSIONS

Detours should be signed clearly over their entire length so that motorists can easily determine how to return to the original roadway. The reverse curve (W1-4) warning sign should be used for the advanced warning for a lane shift. A diversion should be signed as a lane shift.

EXTENDED DISTANCE ADVANCE WARNING SIGN

Advance Warning Signs shall be used at extended distance of one-half mile or more when limited sight distance or the nature of the obstruction may require a motorist to bring their vehicle to a stop. Extended distance Advanced Warning Signs may be required on any type roadway, but particularly be considered on multilane divided highways where vehicle speed is generally in the higher range (45 MPH or more).

UTILITY WORK AHEAD SIGN

The UTILITY WORK AHEAD (W21-7) sign may be used as an alternate to the ROAD WORK AHEAD or the ROAD WORK XX FT (W20-1) sign for utility operations on or adjacent to a highway.

LENGTH OF ROAD WORK SIGN

The length of road work sign (G20-1) bearing the legend ROAD WORK NEXT_____ MILES is required for all projects of more than 2 miles in length. The number of miles entered should be rounded up to the nearest mile. The sign shall be located at begin construction points.

GROOVED PAVEMENT AHEAD SIGN

The GROOVED PAVEMENT AHEAD sign is required 500 feet in advance of a milled or grooved surface open to traffic. The W8-15P placard shall be used in conjunction with the GROOVED PAVEMENT AHEAD sign.

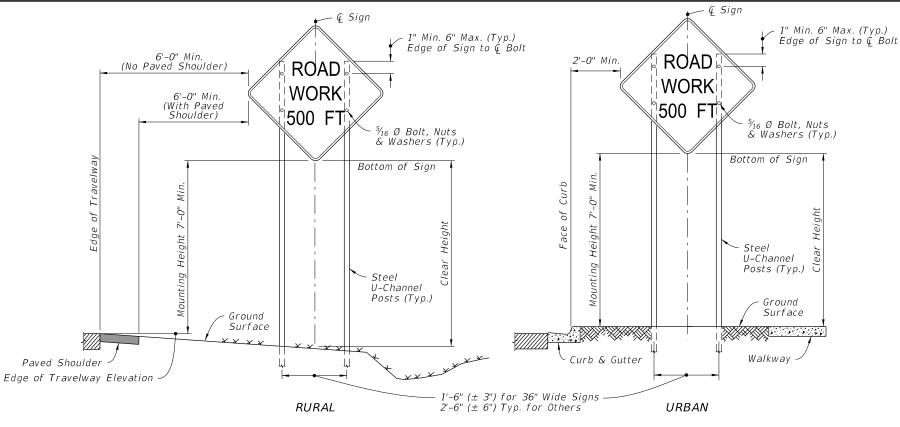
END ROAD WORK SIGN

The END ROAD WORK sign (G20-2) should be installed on all projects, but may be omitted where the work operation is less than 1 day. The sign should be placed approximately 500 feet beyond the end of a construction or maintenance project unless other distance is called for in the plans. When other Construction or Maintenance Operations occur within 1 mile this sign should be omitted and signing coordinated in accordance with Index 102-600, ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING.

NOTES:

- 1. All signs shall be post mounted when work operations exceed one day except for:
- a. Road closure signs mounted in accordance with the vendor drawing for the Type III Barricade shown on the APL
- b. Pedestrian and bicycle advanced warning or pedestrian regulatory signs mounted on sign supports in accordance with the vendor drawing shown on the APL.
- c. Median barrier mounted signs per Index 700-013.
- d. Bridge mounted signs per Index 700-012.
- 2. Unless shielded with barrier or outside of the Clear Zone, signs mounted on temporary supports or barricades, and barricade/sign combination must be crashworthy in accordance with NCHRP 350 requirements and included on the Approved Products List (APL).
- 3. Use only approved systems listed on the Department's Approved Products List (APL).
- 4. Manufacturers seeking approval of U-Channel and steel square tube sign support assemblies for inclusion on the Approved Products List (APL) must submit a APL application, design calculations (for square tube only), and detailed drawings showing the product meets all the requirements of this Index.
- 5. Provide 3 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.43 in³ for 60 ksi steel, a minimum section modulus of 0.37 in³ for 70 ksi steel, or a minimum section modulus of 0.34 in³ for 80 ksi steel.
- 6. Provide 4 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.56 in³ for 60 ksi steel, or a minimum section modulus of 0.47 in³ for 70 ksi or 80 ksi steel.
- 7. U-channel posts shall conform with ASTM A 499, Grade 60, or ASTM A 576, Grade 1080 (with a minimum yield strength of 60 ksi). Square tube posts shall conform with ASTM A 653, Grade 50, or ASTM A 1011, Grade 50.
- 8. Sign attachment bolts, washers, nuts, and spacers shall conform with ASTM A307 or A 36.
- 9. Install 4 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL.
- 10. The contractor may install 3 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL.
- 11. Install all posts plumb.
- 12. The contractor may set posts in preformed holes to the specified depth with suitable backfill tamped securely on all sides, or drive 3 lb/ft sign posts and any size base post in accordance with the manufacturer's detail shown on the APL.

DESCRIPTION:



2 POST SIGN SUPPORT MOUNTING DETAILS (SINGLE POST SIMILAR)

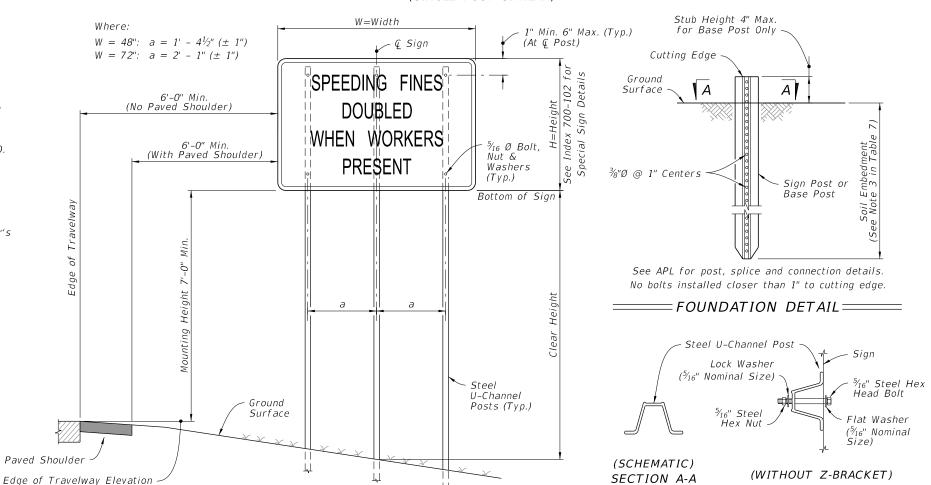


TABLE 7 POST AND FOUNDATION TABLE FOR WORK ZONE SIGNS

SIGN SHAPE	SIGN SIZE (inches)	NUMBER OF STEEL U CHANNEL POSTS
Octagon	30x30	1
	36x36x36	1
Triangle	48x48x48	1
	60x60x60	2
	24x18	1
	24x30	1
	30x24	1
	36 x 18	1
	36x24	1
Postanalo	48 x 18	1
Rectangle	48x24	1
(W x H)	36 x 48	2
	48×30	2
	48x36	2
	54×36	2
	48×60	3
	72x48	3
Square	30x30	1
	36 x 36	2
	48×48	2
Diamond	48x48	2
Circle	36Ø	2

Notes For Table:

- 1. Use 3 lb/ft posts for Clear Height up to 10' and 4 lb/ft posts for Clear Height up to 12'.
- 2. Minimum foundation depth is 4.0' for 3 lb/ft posts and 4.5' for 4 lb/ft posts.
- 3. For both 3 lb/ft and 4 lb/ft base or sign posts installed in rock, a minimum cumulative depth of 2' of rock layer is required.
- 4. The soil plate as shown on the APL vendor drawing is not required for base posts or sign posts installed in existing rock (as defined in Note 3), asphalt roadway, shoulder pavement or soil under sidewalk.
- 5. For diamond warning signs with supplement plaque (up to 5 ft2 in area), use 4 lb/ft posts for up to 10 ft Clear Height (measure to the bottom of diamond warning sign).

WORK ZONE SIGN SUPPORTS

REVISION 11/01/21

FDOT

FY 2024-25 STANDARD PLANS

= 3 POST SIGN SUPPORT MOUNTING DETAILS =

CONTROL THROUGH WORK ZONES

=== SIGN ATTACHMENT DETAIL===

INDEX 102-600

SHEET 5 of 11





END ROAD WORK G20-2

PILOT CAR FOLLOW ME G20-4

B/0







B/0



M4-10L

0/B



0/B







NOT PASS R4-1

WITH CARE R4-2

TRUCKS USE RIGHT LANE R4-5







KEEP LÈFT R4-7AL





B/W











B/0

ROAD CLOSED

W20-3

B/0

B/0



B/0







CLOSED B/W



W1-2R

W1 - 3R

B/0

W1-4R



B/0

W1-6

B/0

RIGHT

SHOULDER CLOSED

W21-5a

B/0













B/0

DETOUR

1/2 MILE

W20-2E





B/0

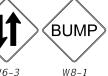


B/0

RIGHT LANE

W20-5R

B/0



B/0

FLAGGER

W20-7A

B/0



B/0

W20-7

B/0

PAVEMENT ENDS

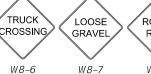
B/0

SOFT SHOULDEF W8-4 W8-3

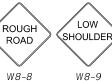


W8-5

B/0



B/0



B/0

BLASTING

ZONE

AHEAD,

W22-1

B/0

B/0

UTILITY

WORK AHEAD

W21-7

B/0







DETOUR

W20-2C

B/0



B/0

DETOUR

1500 FT

W20-2D

B/0





ONE LANÈ

ROAD

W20-4

B/0

W5-2

B/0



LEFT TWO LANE:

CLOSED

AHEAD

W20-5a

B/0

W5-3

B/0



LEFT LANE

W20-5L

B/0



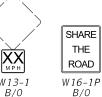




B/0

CENTER LAN

W20-5C





W21-1A

B/0





W21-1

B/0

B/0





SHOULDER

W21-5

B/0



SURVEY

W21-6

B/0





AND CELL PHONE

W22-2

B/0





FND BLASTING ZONE W22-3

B/0

NOTES:

- 1. The size of diamond shaped Temporary Traffic Control (TTC) warning signs shall be a minimum of 48" X 48".
- 2. Fluorescent orange shall be used for all orange colored work zone signs.
- 3. The sign shields, symbols and messages contained on this sheet are provided for ready reference to those signs used in the development of the 102 Series of Indexes and are commonly used in the development of traffic control plans. For additional signs and sign detail information refer to the STANDARD HIGHWAY SIGNS MANUAL as specified in the MUTCD. Special signs for traffic control plans will be as approved by the State Traffic Plans Engineer.

The sign codes shown on this sheet are for the purpose of identifying cell names found in the Traffic Control Cell Library (TCZ.Cel).

The STANDARD HIGHWAY SIGNS MANUAL should be referenced for the official sign codes for use in the development of traffic control plans.

See Index 700-102 for MOT sign details.

COLOR CODES:

Legend and/or Symbol Background

R-Red (Reflectorized) Y-Yellow (Reflectorized) G-Green (Reflectorized) O-Orange (Reflectorized) B-Black (Non-Reflectorized) W-White (Reflectorized)

COMMONLY USED WARNING AND REGULATORY SIGNS IN WORK ZONES

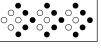
DESCRIPTION: REVISION 11/01/20

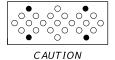


INDEX

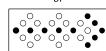
SHEET

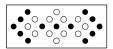












MOVE/MERGE LEFT

MOVE/MERGE RIGHT

MOVE/MERGE RIGHT

Minimum Required Lamps Additional Lamps Allowed

MODES

NOTES:

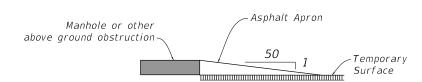
An arrow board in the arrow or chevron mode shall be used only for stationary or moving lane closures on multilane roadways.

For shoulder work, blocking the shoulder, for roadside work near the shoulder, or for temporarily closing one lane on a two-lane, two-way roadway, an arrow board shall be used only in the caution mode.

A single arrow board shall not be used to merge traffic laterally more than one lane. When arrow boards are used to close multiple lanes, a single board shall be used at the merging taper for each closed lane.

When Advance Warning Arrow Boards are used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.

= ADVANCE WARNING ARROW BOARDS ===



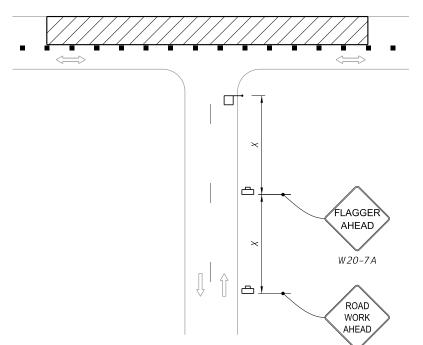
NOTES:

Manholes extending 1" or more above the travel lane and crosswalks having an uneven surface greater than $\frac{1}{4}$ " shall have a temporary asphalt apron constructed as shown above.

All transverse joints that have a difference in elevation of 1" or more shall have a temporary asphalt apron constructed as shown above.

The apron is to be removed prior to constructing the next lift of asphalt. The cost of the temporary asphalt shall be included in the contract unit price for Maintenance of Traffic, LS.

= MANHOLES/CROSSWALKS/JOINTS ======



NOTE:

Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).

= SIDE ROAD INTERSECTING THE WORK ZONE =

SIGNALS:

Existing traffic signal operations that require modification in order to carry out work zone traffic control shall be included in the Plans and be approved by the District Traffic Operations Engineer.

W20-1F

Refer to Specification 102-9 for additional information.

CHANNELIZING DEVICES:

Channelizing devices for work zone traffic control shall be as prescribed in Part VI of the MUTCD, subject to supplemental revisions provided in the contract documents and the 102 Series of Indexes. Lighting Devices must not be used to supplement channelization. Omit tapers and channelizing devices for paved shoulders less than 4' in width.

CHANNELIZING DEVICE CONSISTENCY:

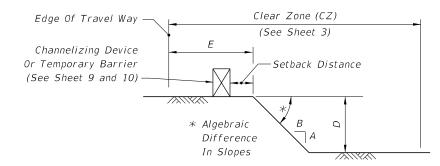
Barricades, vertical panels, cones, tubular markers and drums shall not be intermixed within either the lateral transition or within the tangent alignment.

TRUCK/TRAILER-MOUNTED ATTENUATORS:

Truck/Trailer-mounted attenuators (TMA) can be used for moving operations and short-term stationary operations. For moving operations, see Index 102-607. For short-term, stationary operations, see Part VI of the MUTCD.

102-600

- 3. Drop-offs may be mitigated by placement of slopes with optional base material per Specifications Section 285. Slopes shallower than 1:4 may be required to avoid algebraic difference in slopes greater than 0.25. Include the cost for the placement and removal of the material in Maintenance of Traffic, LS. Use of this treatment in lieu of a temporary barrier is not eligible for CSIP consideration. Conduct daily inspections for deficiencies related to erosion, excessive slopes, rutting or other adverse conditions. Repair any deficiencies immediately.
- 4. For Setback Distance, refer to the Index or Approved Products List (APL) drawing of the selected barrier.
- 5. For Conditions 1 and 3 provided in Table 8, any drop-off condition that is created and restored within the same work period will not be subject to use of temporary barriers; however, channelizing devices will be required.
- 6. When permanent curb heights are \geq 6", no channelizing device will be required. For curb heights < 6", see Table 8.

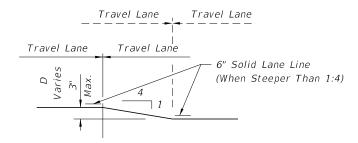


DROP-OFF CONDITION DETAIL

Table 8 Drop-off Protection Requirements				
Condition	E (ft)	D (in.)	Device Required	
1	0-12	> 3	Temporary Barrier	
2	> 12-CZ	> 3 to ≤ 5	Channelizing Device	
3	0-CZ	> 5	Temporary Barrier	
4	Removal of Bridge or Retaining Wall Barrier		Temporary Barrier	
5	Removal of portions of Bridge Deck		Temporary Barrier	

TRAVEL LANE TREATMENT FOR MILLING OR RESURFACING NOTES

- 1. This treatment applies to resurfacing or milling operations between adjacent travel lanes.
- 2. Whenever there is a difference in elevation between adjacent travel lanes, the W8-11 sign with "UNEVEN LANES" is required at intervals of $\frac{1}{2}$ mile maximum.
- 3. If D is $1\frac{1}{2}$ " or less, no treatment is required.
- 4. Treatment allowed only when D is 3" or less.
- 5. If the slope is steeper than 1:4 (not to be steeper than 1:1), the R4-1 and MOT-1-06 signs shall be used as a supplement to the W8-11; this condition should never exceed 3 miles in length.



TRAVEL LANE TREATMENT FOR MILLING OR RESURFACING DETAIL

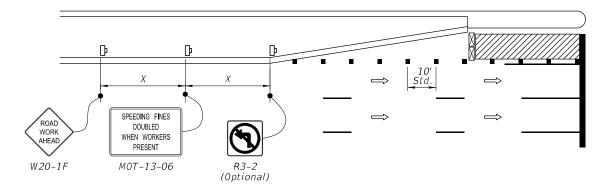
PEDESTRIAN WAY DROP-OFF CONDITION NOTES

- 1. A pedestrian way drop-off is defined as:
- a. a drop in elevation greater than 10" that is closer than 2' from the edge of the pedestrian way
- b. a slope steeper than 1:2 that begins closer than 2' from the edge of the pedestrian way when the total drop-off is greater than 60"
- 2. Protect any drop-off adjacent to a pedestrian way with pedestrian longitudinal channelizing devices, temporary barrier wall, or approved handrail.

DROP-OFFS IN WORK ZONES



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NOTES:

- 1. X = Work Zone Sign Spacing (See Table 3).
- 2. The SPEEDING FINES DOUBLE WHEN WORKERS
 PRESENT sign (MOT-13-06) may be omitted when
 work operation will be in place for 24 hours or less.

= AUXILIARY LANE CLOSURE =

Std. Spacing (See Table 1) BUSINESS ENTRANCE 40'-0" Reduced Spacing Reduced Spacing

NOTES:

- 1. For single business entrances, place one 24" x 36" BUSINESS ENTRANCE sign (MOT-11-06) showing the specific business name for each affected driveway entrance. Logos may be provided by business owners. Standard BUSINESS ENTRANCE sign (MOT-11-06) may be used when approved by the Engineer.
- 2. When several businesses share a common driveway entrance, place one 24" x 36" standard BUSINESS ENTRANCE sign (MOT-11-06) in accordance with Index 700-102 at the common driveway entrance.
- 3. Channelizing devices shall be placed at a reduced spacing on each side of the driveway entrance, but shall not restrict sight distance for the driveway users.
- 4. Business entrance signs are intended to guide motorist to business entrances moved/modified or disturbed during construction projects.

 Business entrance signs are not required where there is minimal disruption to business driveways which is often the case with resurfacing type projects.

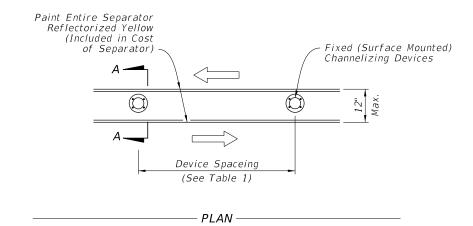
BUSINESS ENTRANCE SIGNS AND CHANNELIZING = DEVICES PLACEMENT AT BUSINESS ENTRANCE

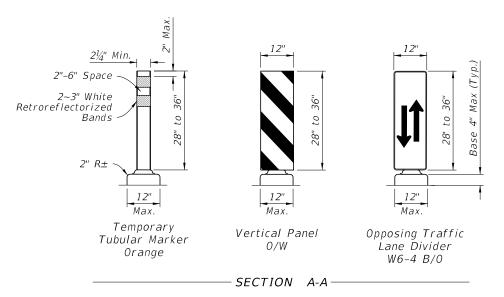
LAST REVISION 11/01/23

DESCRIPTION:



FY 2024-25 STANDARD PLANS





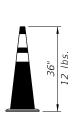
NOTES:

- 1. Temporary lane separators shall be supplemented with any of the following approved fixed (surface mounted) channelizing devices: temporary tubular markers, vertical panels, or opposing traffic lane divider panels. Opposing traffic lane divider panels (W6-4) shall only be used as center lane dividers to separate opposing vehicular traffic on a two-lane, two-way operation. Temporary Tubular Markers, Vertical Panels and Opposing Traffic Lane Divider panels shall not be intermixed within the limits where the temporary lane separator is used. The connection between the channelizing device and the temporary lane separator curb shall hold the channelizing device in a vertical position.
- 2. Reflectorized materials shall have a smooth sealed outer surface which will display the same approximate color day and night. Furnish channelizing devices having retroreflective sheeting meeting the requirements of Section 990.
- 3. 12" openings for drainage shall be constructed in the asphalt and portable temporary lane separator at a maximum spacing of 25' in areas with grades of 1% or less or 50' in areas with grades over 1% as directed by the Engineer.
- 4. Tapered ends shall be used at the beginning and end of each run of the temporary lane separator to form a gradual increase in height from the pavement level to the top of the temporary lane separator.
- 5. The Contractor has the option of using portable temporary lane separators containing fixed channelizing devices in lieu of the temporary asphalt separator and channelizing devices detailed on this sheet. The portable temporary lane separator shall come in portable sections that can be connected to maintain continuous alignment between the separate curb sections. Each temporary lane separator section shall be 36 inches to 48 inches in total length. Portable temporary lane separators shall duplicate the color of the pavement marking. Portable temporary lane separators shall be one of those listed on the Approved Products List.

= FIXED CHANNELIZING DEVICES == (Temporary Lane Separators)

INDEX

SHEET 9 of 11

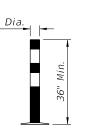


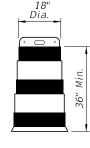
CONES

TEMPORARY

TUBULAR

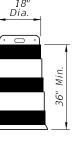
MARKER

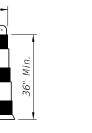


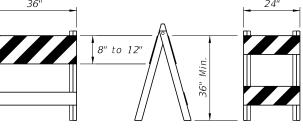


PLASTIC

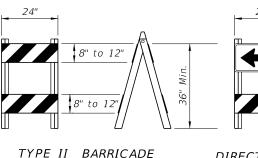
DRUMS

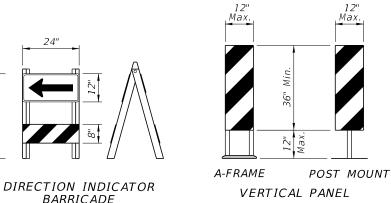


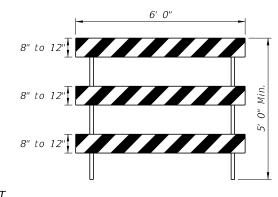




TYPE I BARRICADE





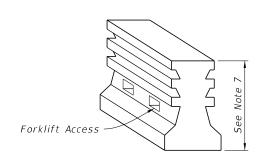


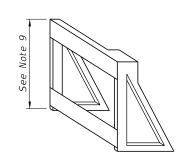
TYPE III BARRICADE

CHANNELIZING DEVICES =

CHANNELIZING DEVICE NOTES:

- 1. The details shown on this sheet are for the following purposes:
- a. For ease of identification and
- b. To provide information that supplements or supersedes that provided by the MUTCD.
- 2. The Type III Barricade shall have a unit length of 6'-0" only. When barricades of greater lengths are required those lengths shall be in multiples of the 6'-0" unit.
- 3. No sign panel should be mounted on any channelizing device unless the channelizing device/sign combination was found to be crashworthy and the sign panel is mounted in accordance with the vendor drawing for the channelizing device shown on the Approved Products List (APL).
- 4. Ballast shall not be placed on top rails or any striped rails or higher than 13" above the driving surface.
- 5. The direction indicator barricade may be used in tapers and transitions where specific directional guidance to drivers is necessary. If used, direction indicator barricades shall be used in series to direct the driver through the transition and into the intended travel lane.
- 6. The splicing of sheeting is not permitted on channelizing devices or MOT signs.
- 7. For rails less than 3'-0" long, 4" stripes shall be used.
- 8. Cones shall:
- a. Be used only in active work zones where workers are present.
- b. Be reflectorized as per the MUTCD with Department-approved reflective collars when used at night.
- 9. For pedestrian longitudinal channelizing devices, the device shall have a minimum of 8" continuous detectable edging above the walkway. A gap not exceeding a height of 2" is allowed to facilitate drainage. The top surface of the device shall be a minimum height of 32" and have a $\frac{1}{8}$ " or less difference in any plane at all connection points between the devices to facilitate hand trailing. The bottom and the top surface of the device shall be in the same vertical plane. If pedestrian drop-off protection is required, the device shall have a footprint or offset of at least 2', otherwise the device must be at least 42" in height above the walkway and be anchored or ballasted to withstand a 200 lb lateral point load at the top of the device.





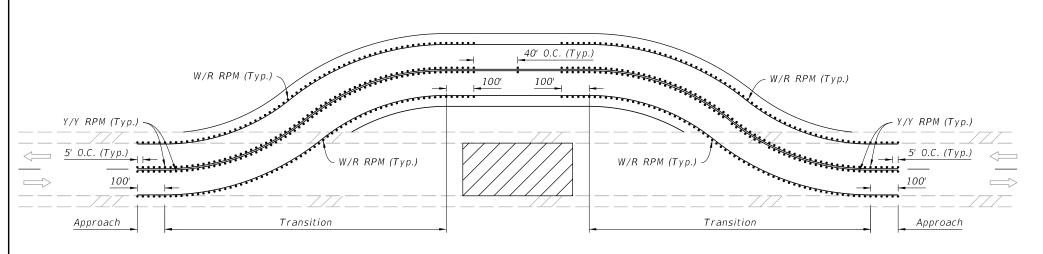
= PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES =

TEMPORARY BARRIER NOTES:

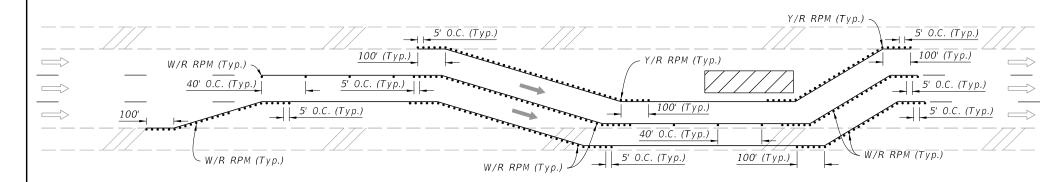
1. Where a barrier is specified, any of the types below may be used in accordance with the applicable Index:

<u>Index</u>	<u>Description</u>	
102-100	Temporary Barrier	
102-120	Low Profile Barrier	
536-001	Guardrail	

2. Trailer Mounted Barriers may be used to provide positive protection for workers within the work areas. APL drawings may be used as a guide to develop project specific Temporary Traffic Control Plans that are signed and sealed by the Contractor's Engineer.



RPM PLACEMENT ON TWO-LANE ROADWAYS



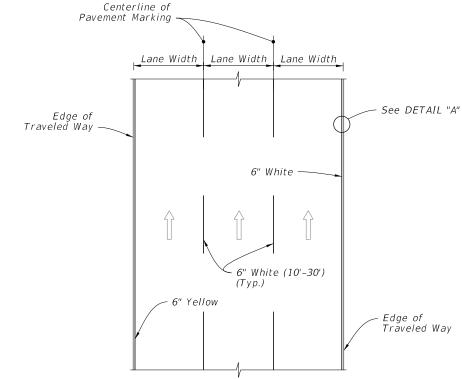
RPM PLACEMENT ON MULTILANE ROADWAYS

(Lane Shift Shown, Other Multilane Typical Applications Similar)

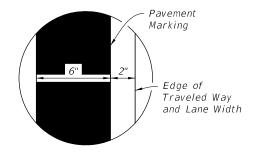
NOTES:

- 1. Install RPMs as a supplement to:
- b. Edge lines in transitions (e.g., merges, diversions, lane shifts)
- c. Edge lines of gore areas
- 2. Extend pavement marking and 5' RPM spacing by 100' in each direction for all transitions regardless of the line type.
- 3. Place RPMs in accordance with this detail and Index 706-001.

RPM PLACEMENT IN WORK ZONES =



PLAN VIEW



DETAIL "A"

PAVEMENT MARKINGS PLACEMENT =

WORK ZONE PAVEMENT MARKINGS

DESCRIPTION: REVISION 11/01/23

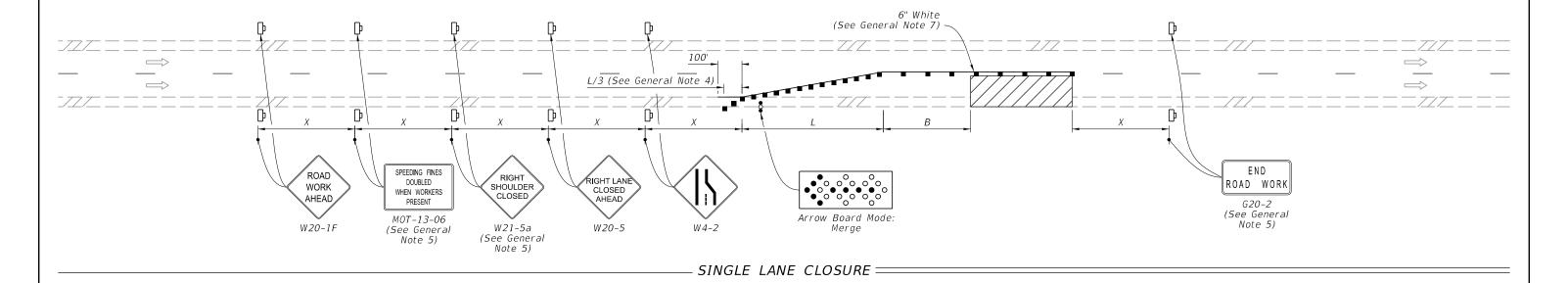
FDOT

FY 2024-25 STANDARD PLANS

CONTROL THROUGH WORK ZONES

INDEX 102-600

SHEET 11 of 11



SYMBOLS:



■ Channelizing Device (See Index 102-600)

Work Zone Sign

Arrow Board

Lane Identification and Direction of Traffic

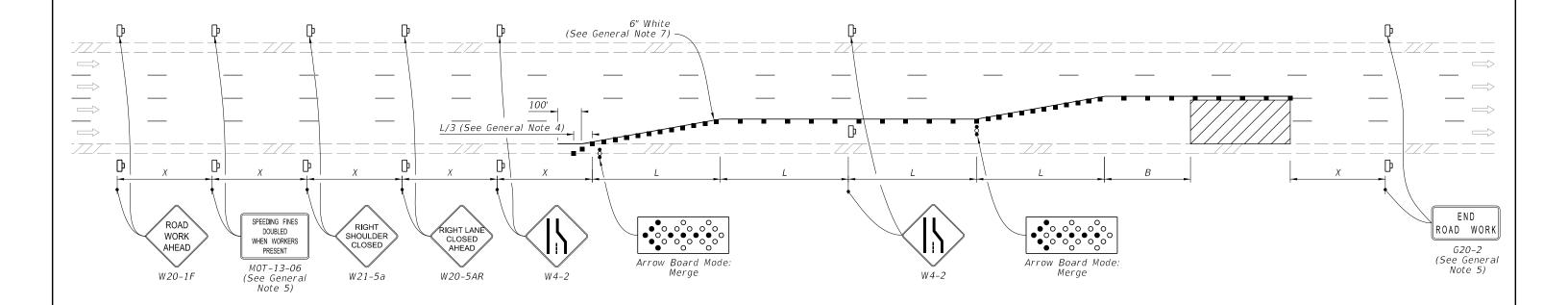
GENERAL NOTE:

- 1. L = Taper Length
- B = Buffer Length
- X = Work Zone Sign Distance

See Index 102-600 for "L", "B", "X", and channelizing device spacing values.

- 2. On undivided highways the median signs as shown are to be omitted.
- 3. On limited access facilities, omit "Right Shoulder Closed" signs (W21-5a) and associated work zone sign spacing distances.
- 4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
- 5. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2) and "Right Shoulder Closed" (W21-5a), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less. For Single Lane Closures, arrow boards and buffer (B) may also be omitted when the work operation will be in place for 60 minutes or less and the speed limit is 45 mph or less.
- 6. Use inverted plan of the illustrations for work on left side of roadways.
- 7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

REVISION 11/01/21



DOUBLE LANE CLOSURE =

SYMBOLS:

DESCRIPTION:



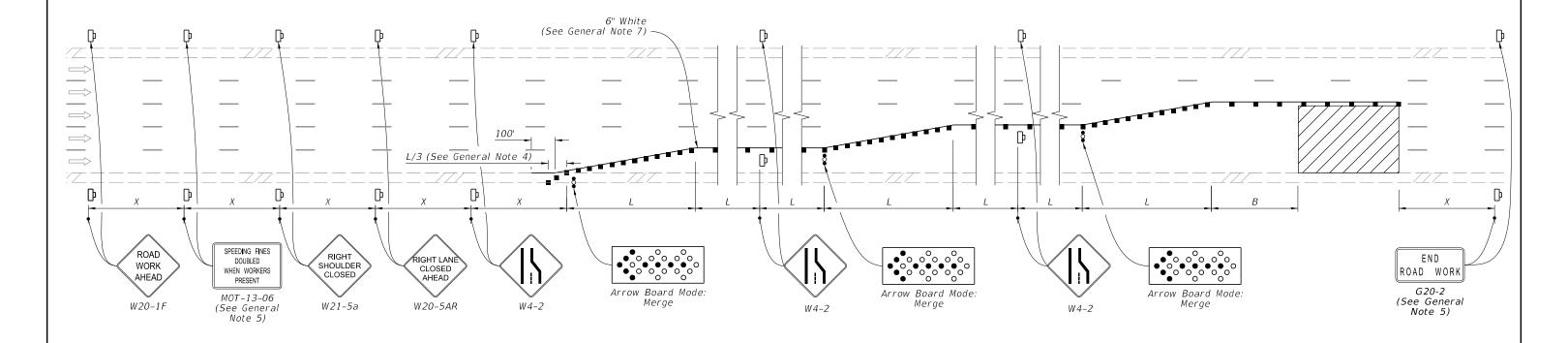
■ Channelizing Device (See Index 102-600)

Work Zone Sign

Arrow Board

Lane Identification and Direction of Traffic

LAST REVISION 11/01/20



= TRIPLE LANE CLOSURE =

SYMBOLS:



DESCRIPTION:

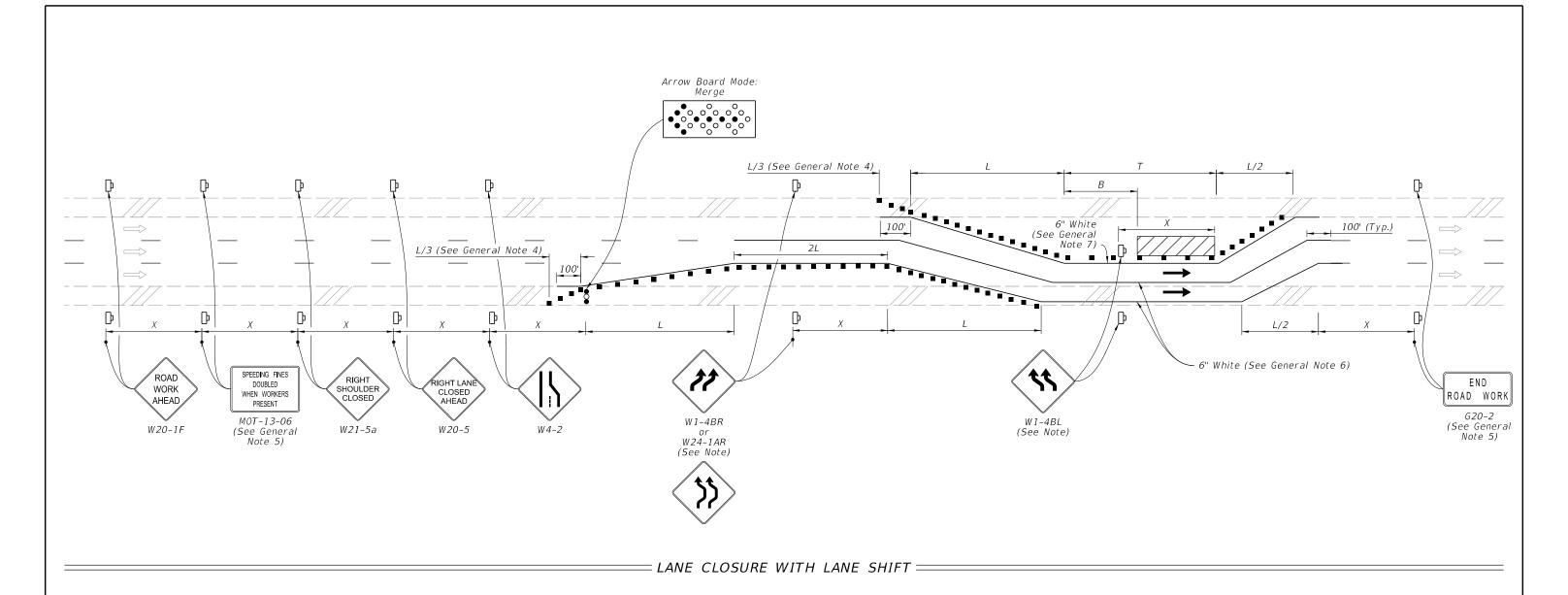
■ Channelizing Device (See Index 102-600)

Work Zone Sign

Arrow Board

Lane Identification and Direction of Traffic

REVISION 11/01/20



If the tangent distance "T" is less than 600', then use "Double Reverse Curve" signs (W24-1A) instead of the first pair of "Reverse Curve" signs (W1-4B) and omit the second pair of "Reverse Curve" signs.

SYMBOLS:

NOTE:

Work Area

■ Channelizing Device (See Index 102-600)

₩ork Zone Sign

Arrow Board

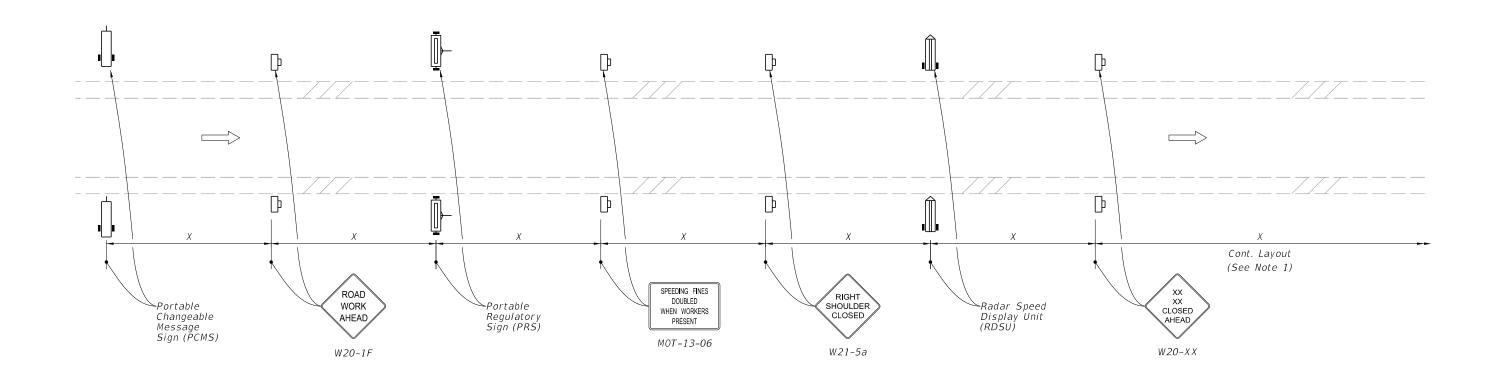
Lane Identification and Direction of Traffic

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LAST REVISION 11/01/20

DESCRIPTION:





MOTORIST AWARENESS SYSTEM

SYMBOLS:

Work Zone Sign

(1) PCMS= Portable Changeable (Variable) Message Sign

1 (2) PRS= Portable Regulatory Sign-Speed Limit When Flashing

(2) RSDU= Radar Speed Display Unit

Lane Identification and Direction of Traffic

NOTES:

- 1. Use the Motorist Awareness System (MAS) for lane closures of at least 5 days (consecutive or not) on multilane divided facilities with a posted speed of 55 mph or greater when workers are present and not protected by a barrier.
- 2. Locate the Motorist MAS devices (i.e., PCMS, PRS, and RDSU) within the advance warning signs as shown. Continue with the remainder of the work zone signs and devices in accordance with the Plans or Standard Plans after the appropriate "Lane Closed Ahead" (W20-XX) sign.
- 3. For a posted speed of 65 mph or greater, display speed with a ten mph reduction. For a posted speed of 60 mph, display a reduced speed of 55 mph. For areas outside of the lane closure, use the posted speed as the work zone speed.
- 4. Omit the PCMS in the median for roadways with three lanes or less in the same direction of traffic.

TYPICAL PCMS DISPLAY:

With speed reduction:

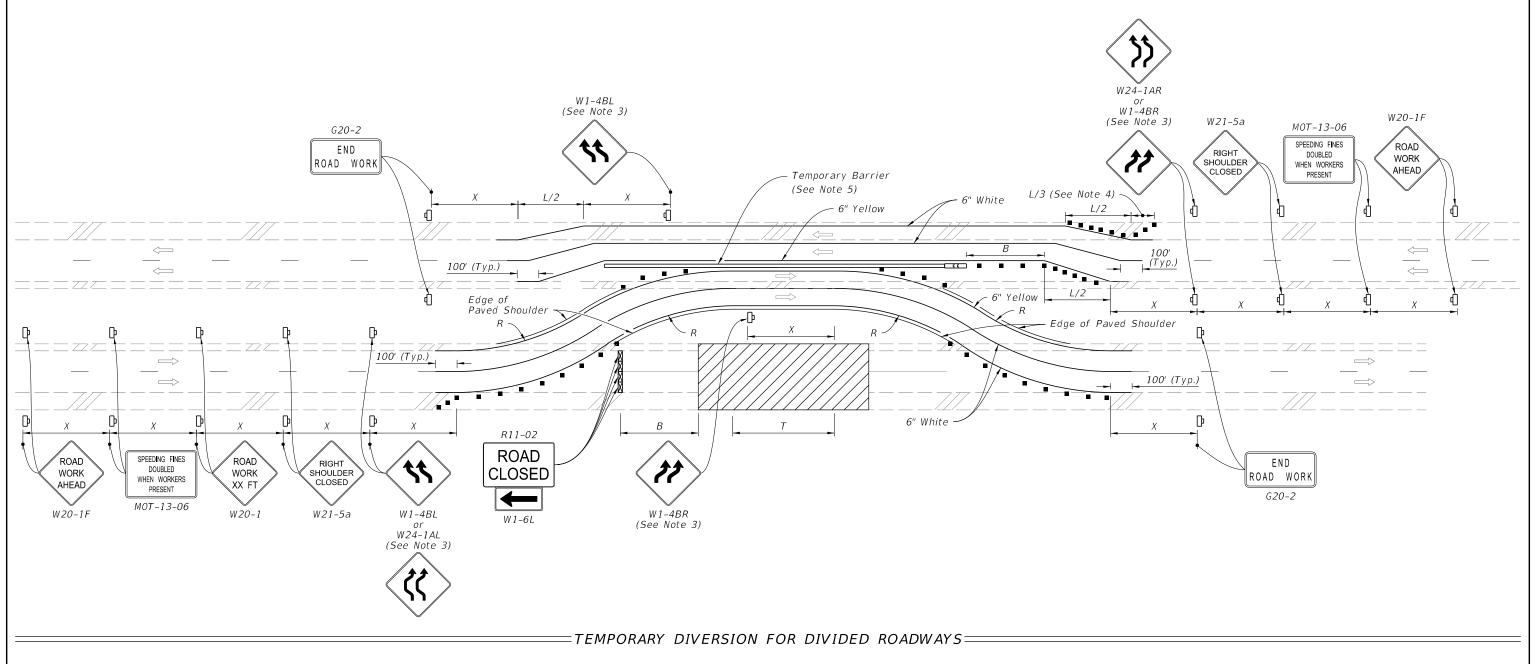
Message 1: WORKERS PRESENT AHEAD Message 2: SPEED REDUCED NEXT XXMI

Without speed reduction:

Message 1: WORKERS PRESENT AHEAD

Message 2: NEXT XX MILES

DESCRIPTION:



SYMBOLS:



■ Channelizing Device (See Index 102-600)

Work Zone Sign

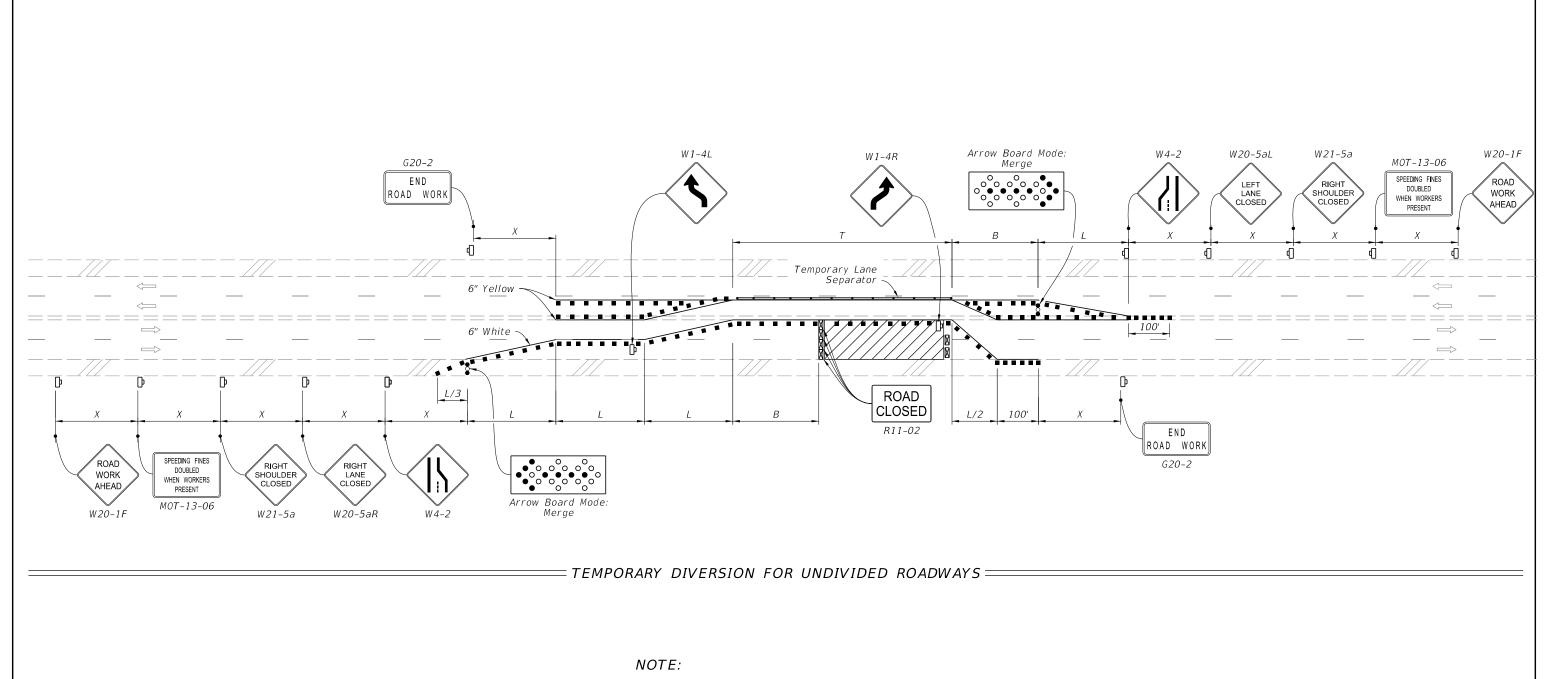
Type III Barricade

Crash Cushion

Lane Identification and Direction of Traffic

NOTES:

- 1. This Index applies to multilane roadways, except with undivided roadways with 6 or more lanes, where the work requires the closure of the lanes in one direction and diversion is provided to convert the opposing traffic lanes to temporary two-way travel.
- 2. L = Taper Length
- B = Buffer Length
- X = Work Zone Sign Distance
- R = Radius of Curve
- See Index 102-600 for "L", "B", "X", channelizing device spacing values. See Plans for "R" values.
- 3. For undivided roadways with a tangent distance "T" less than 600', use "Double Reverse Curve" signs (W24-1A) instead of the first pair of "Reverse Curve" signs (W1-4B) and omit the second pair of "Reverse Curve" signs.
- 4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices shown on the paved shoulder.
- 5. Temporary Lane Separator may be used in lieu of Temporary Barrier for speed limits of 45 mph or less.



Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

SYMBOLS:

Work Area

■ Channelizing Device (See Index 102-600)

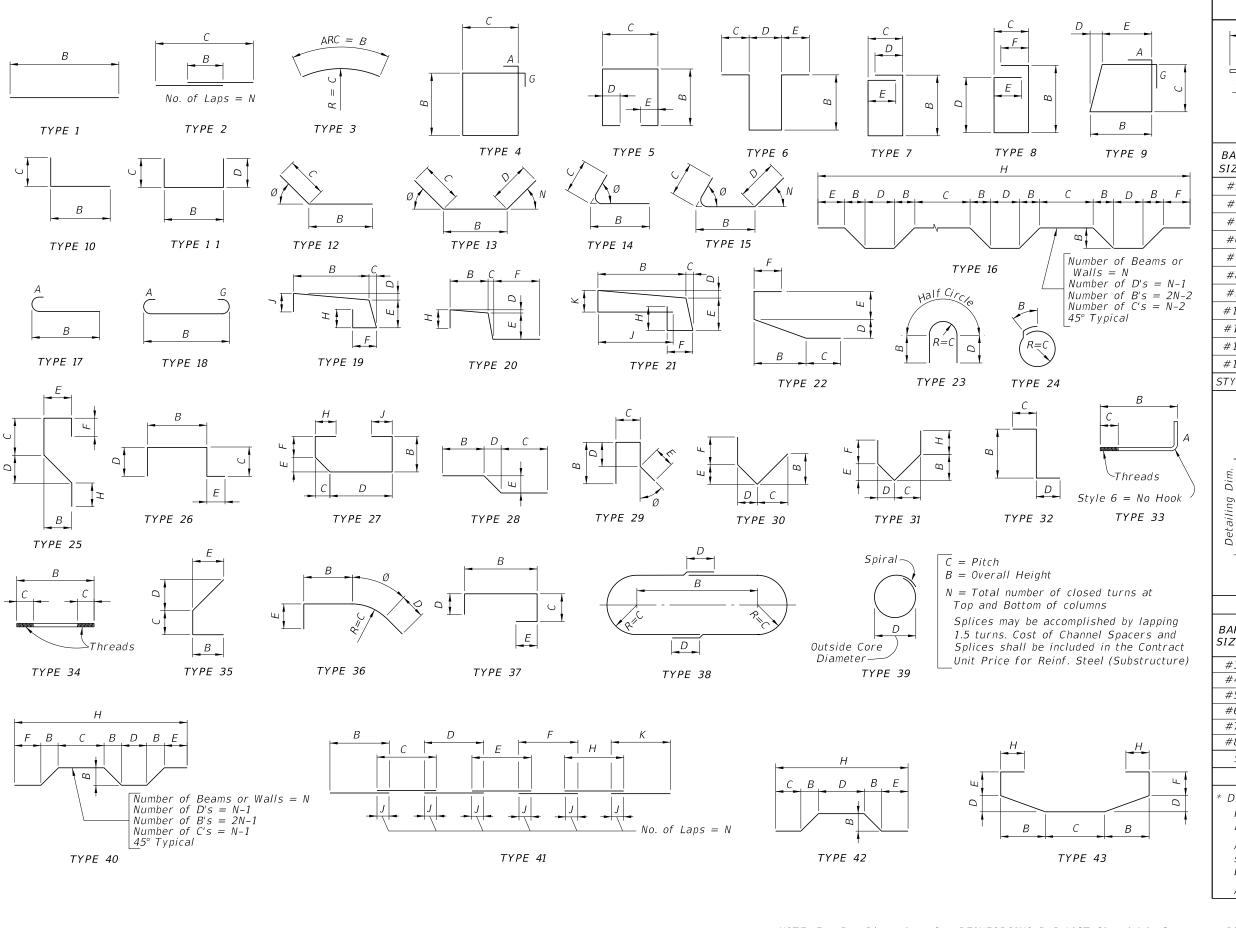
₩ork Zone Sign

Type III Barricade

Crash Cushion

Lane Identification and Direction of Traffic

DESCRIPTION:



HOOK DETAILS Detailing Dim. Detailing Dim. Hook A or G 180° 90° 180° HOOKS D SIZE A OR G J #3 21/4" 5" 3" #4 6" #5 3¾" 7" 5" #6 8" 6" #7 51/4" 10" 7" 11" 8" #8 1'-3" 11¾" #9 1'-11/4" #10 10¾" 1'-5" #11 1'-7" 1'-23/4" 12" #14 181/4" 2'-3" 1'-93/4" #18 2'-41/5" 24" 3'-0" STYLE 0 135° STIRRUPS (TIES SIMILAR) 90° HOOKS BARSIZE A or G

STIRRUP & TIE HOOK DIMENSIONS

135° HOOKS H^* A or G #3 2½" $1\frac{1}{2}$ " 4" #4 2" 41/5" 41/5" 3" 21/2" 51/2" 33/4" #6 4½" 4½" 1'-0" 5¼" 51/4" #7 1'-2" #8 6" 1'-4" 101/5" 6" STYLE 4

STYLE 6 = NO HOOK

Dimension is approximate.

Hook Styles Detailed on this sheet are for Illustration Only.

Actual Hook Style for any particular bar will be shown under A or G Heading on REINFORCING BAR LIST sheet(s) in Structures Plans.

All Dimensions are out-to-out.

NOTE: For Bar Dimensions See REINFORCING BAR LIST Sheet(s) in Structures Plans.

REVISION 11/01/20

DESCRIPTION:



90° HOOKS

6" 8"

10"

1'-0"

1'-2"

1'-4"

1'-7"

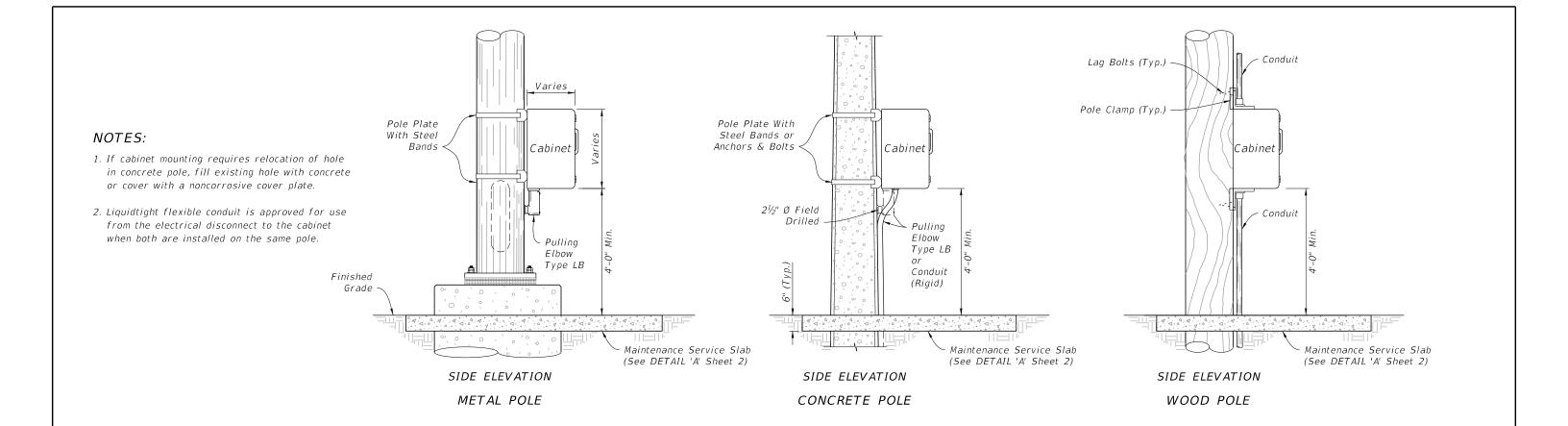
1'-10"

2'-0" 2'-7"

3'-5"

3

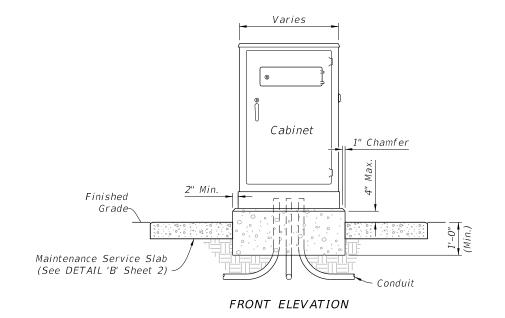
A OR G

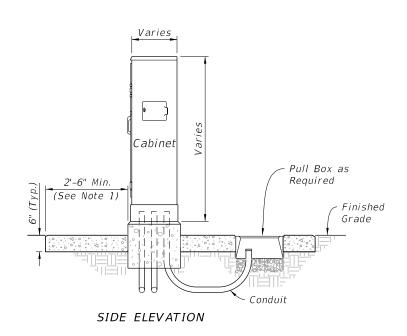


= POLE MOUNTED CONTROLLER CABINET

NOTES:

- 1. Maintenance Service Slab: Use Class NS concrete and slope $\frac{1}{4}$ " to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
- 2. The number, size and orientation of conduit sweep will vary according to site condition or locations. Provide two spare 2" PVC conduits in all bases. Place the exits of the spare conduits in the direction of the center rear of the cabinet base and into a pull box. If obstructions prevent the spare conduit from exiting to the rear, or the rear of the cabinet is located on the R/W line, locate as directed by the Engineer. Cap all spare conduit sweeps with a weatherproof fitting.





NEW CONTROLLER CABINET

GROUND MOUNTED CONTROLLER CABINET =

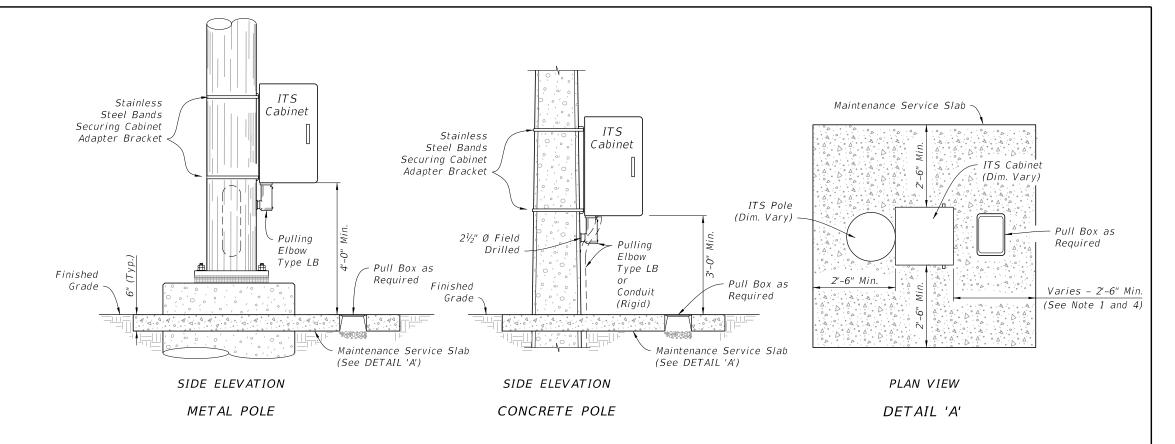
REVISION 11/01/23

DESCRIPTION:



NOTES:

- 1. Maintenance Service Slab: Use Class NS concrete and slope $\frac{1}{4}$ " to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
- 2. If cabinet mounting requires relocation of hole in concrete pole, fill existing hole with concrete or cover with a noncorrosive cover plate.
- 3. Liquidtight flexible conduit is approved for use from the electrical disconnect to the cabinet when both are installed on the same pole.
- 4. Where a pull box is to be placed within the maintenance service slab, the slab width must be extended to provide for the required pull box concrete apron as detailed in Index 635-001.
- 5. Coordinate placement of maintenance service slab with proposed final grade. Grade and compact side slopes around the maintenance service slab to provide a stable and level working area and tie into the proposed

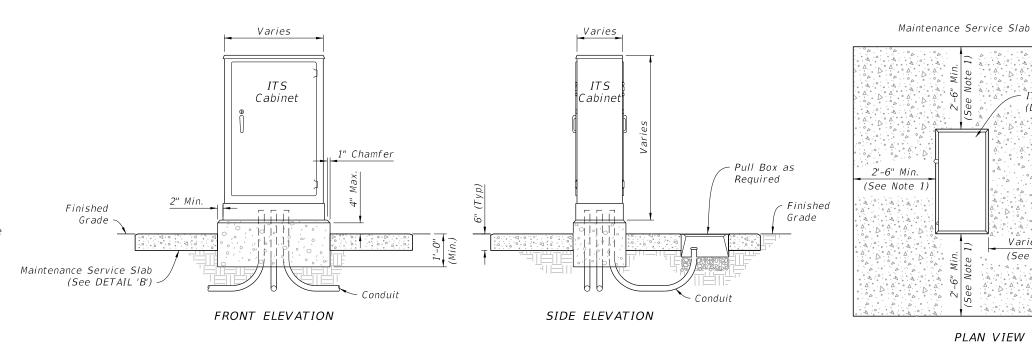


POLE MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET

NOTES:

- 1. Maintenance Service Slab: Use Class NS concrete and slope $\frac{1}{4}$ " to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
- 2. The number, size and orientation of conduit sweep will vary according to site condition or locations. Provide two spare 2" PVC conduits in all bases. Place the exits of the spare conduits in the direction of the center rear of the cabinet base and into a pull box. If obstructions prevent the spare conduit from exiting to the rear, or the rear of the cabinet is located on the R/W line, locate as directed by the Engineer. Cap all spare conduit sweeps with a weatherproof fitting.
- 3. When a pull box is to be placed within the maintenance service slab, the slab width must be extended to provide for the required pull box apron as detailed in Index 635-001.
- 4. Coordinate placement of maintenance service slab with proposed final grade. Grade and compact side slopes around the maintenance service slab to provide a stable and level working area and tie into the proposed embankment.

DESCRIPTION:



GROUND MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET

NEW ITS CABINET

REVISION 11/01/23



ITS Cabinet

Varies - 2'-6" Min.

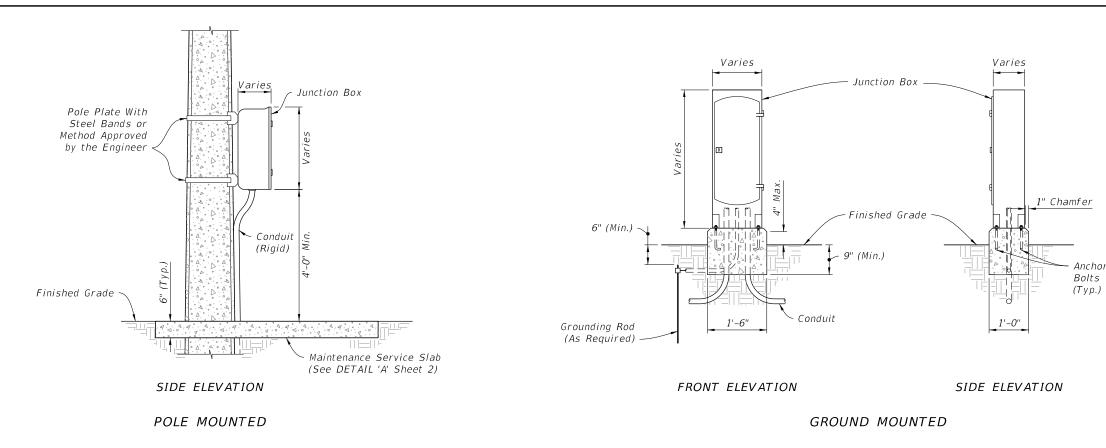
(See Note 1 and 3)

PLAN VIEW

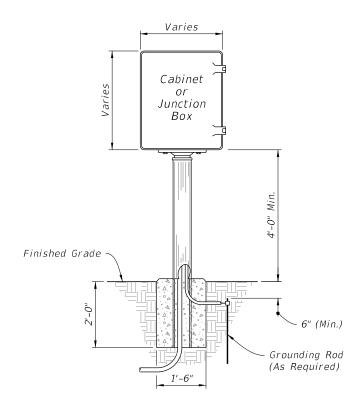
DETAIL 'B'

Pull Box as

Reauired



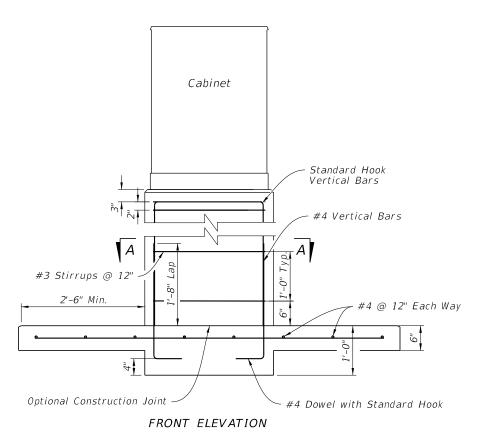
= INTERCONNECT JUNCTION BOX =

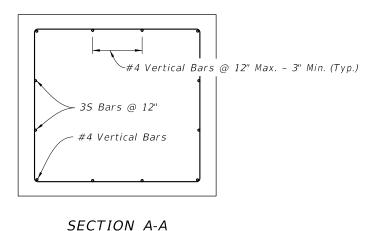


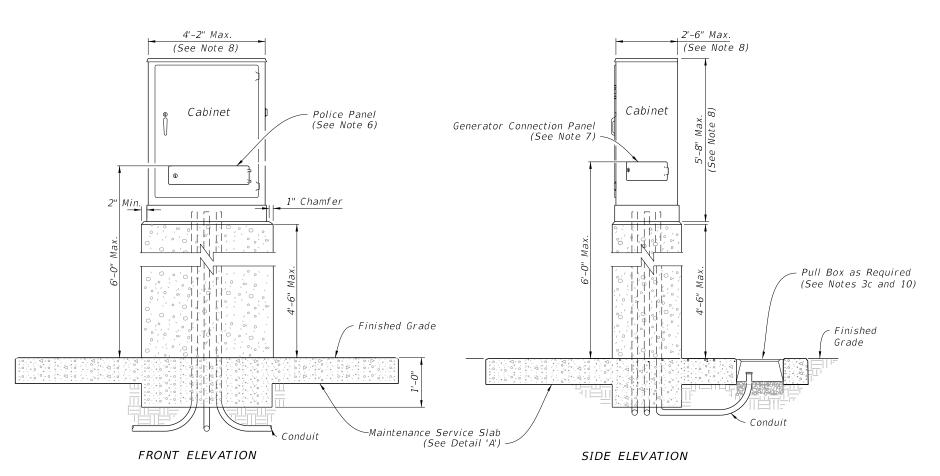
FRONT ELEVATION

PEDESTAL MOUNTED CABINET ==

REVISION 11/01/23 DESCRIPTION:



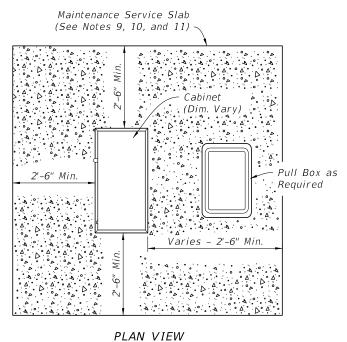




NOTES

- 1. Install cabinet riser as called for in the Plans. Concrete riser shown, for other options, see Specification 676.
- - a. Concrete will be in accordance with Specification 346.
 - b. Concrete will be Class IV.
- 3. Reinforcing:
 - a. Reinforcing will be in accordance with Specification 415.

 - b. All reinforcing steel will have a 2" minimum cover unless noted otherwise.
 c. Adjust reinforcing to facilitate Pull Box. Add equal number of bars to to either side for each bar interrupted by Pull Box.
- 4. Generator connection cables will be extended by the same length as the riser's height.
- 5. Controller cabinet depicted. ITS cabinet similar.
- 6. Locate Police Panel at bottom of cabinet assembly.
- 7. Locate generator connection panel at bottom of cabinet assembly
- 8. Riser dimensions shown are based on maximum cabinet dimensions per the APL
- 9. Slope maintenance slab $\frac{1}{4}$ " to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
- 10. When a pull box is to be placed within the maintenance service slab, the slab width must be extended to provide for the required pull box apron as detailed in Index 635-001.
- 11. Coordinate placement of maintenance service slab with proposed final grade. Grade and compact side slopes around the maintenance service slab to provide a stable and level working area and tie into the proposed embankment.
- 12. The number, size and orientation of conduit sweep will vary according to site condition or location. Provide two spare 2" PVC conduits in all bases. Place the exits of the two spare conduits in the direction of the center rear of the cabinet base and into a pull box. If obstructions prevent the spare conduit from existing to the rear, or the rear of the cabinet is located on the R/W line, locate as directed by the Engineer. Cap all spare conduit sweeps with a weatherproof fitting.



DETAIL 'A'

GROUND MOUNTED CONTROLLER CABINET RISER

REVISION 11/01/23

DESCRIPTION:

FDOT

FY 2024-25 STANDARD PLANS

INDEX 676-010 SHEET