

SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

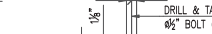
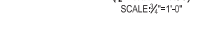
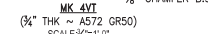
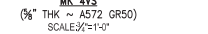
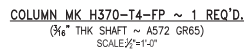
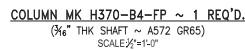
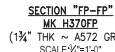
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB


P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/10/2020		DRAWN BY JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWN	
GALVANIZED STEEL POLES		DATE 11/09/20		DRAWING NUMBER	
STEEL ERECTION		(CIR 15/STR 1)		SX-8901-4SE	
				RO	

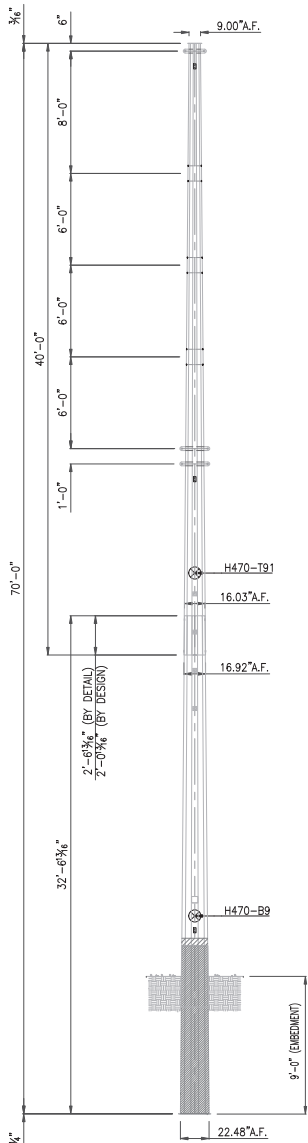
ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



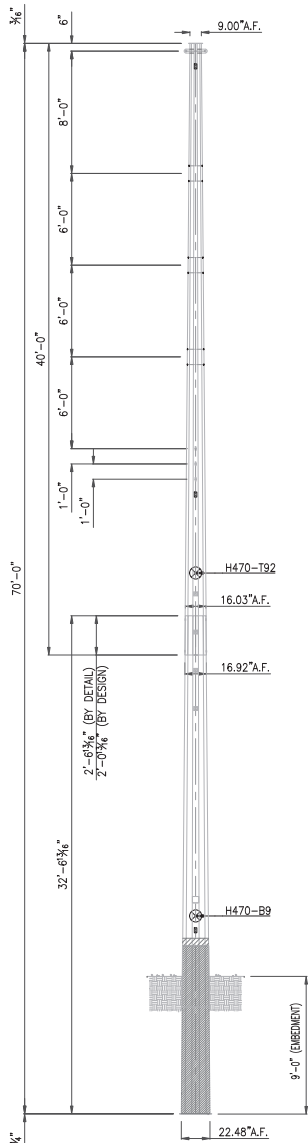
NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-
2. All welds should comply with AWS D1.1 (Latest edition)

ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISH-
IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D.
HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY
FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

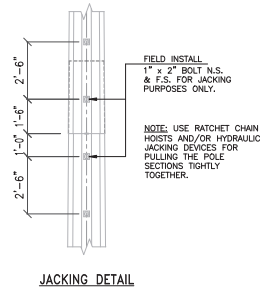
NOTES:		NO.	REVISIONS	DATE	BY
ALL HOLES 1 1/8" UNLESS NOTED BOLTS 5/8" UNLESS NOTED					
ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED					
EDGE DISTANCE 1" UNLESS NOTED ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE					
EACH PIECE OF STEEL TO HAVE 2 MARK STAMPED IN METAL WITH 5/8" HIGH CHARACTERS		RO	REVISED FOR FINAL ISSUE	11/10/20	BNR
		RB	REVISED PER CUSTOMER COMMENTS	10/06/2020	10/07/20 JMB
					
P.O. BOX 40 PELHAM, ALABAMA 35124		PHONE (205)---663-8711 FAX (205)---663-8718			
SCALE				DRAWN BY JMB	
AS NOTED				DATE 08/10/20	
GREENVILLE UTILITIES COMMISSION				CHK'D BY JWN	
VALUED STEEL POLES				DATE 11/09/20	
STEEL DETAILS		(CIR 15/STR 1)		DRAWING NUMBER SX-8901-4A	
				R0	



H4(S-04.9) 70FT POLE ~ 2 REQ'D.
CIRCUIT 15 - STR #2 & 3
SCALE 1/2"=1'-0"



H4(S-04.9) 70FT POLE ~ 1 REQ'D.
CIRCUIT 15 - STR #4
SCALE 1/2"=1'-0"



SLIP-JIT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

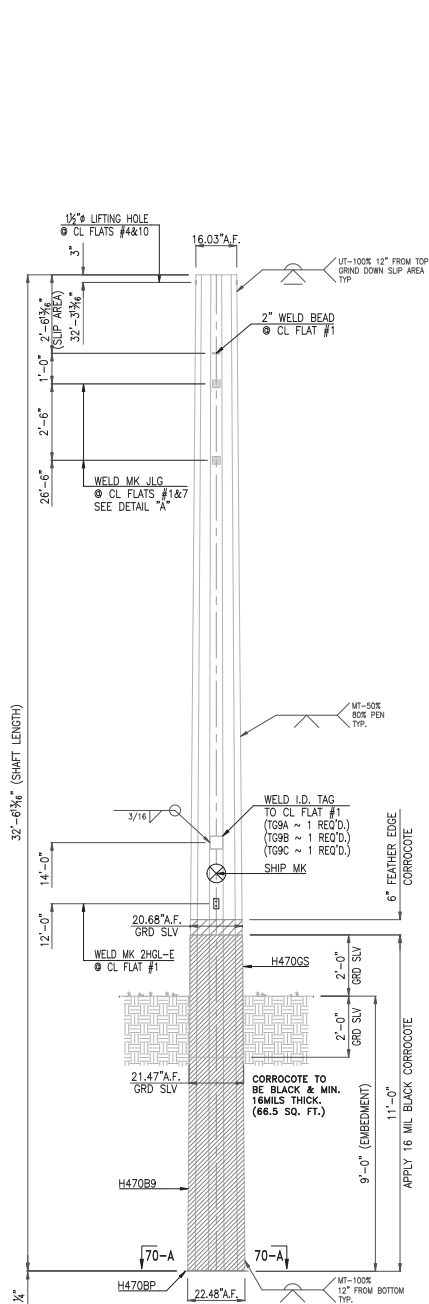
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

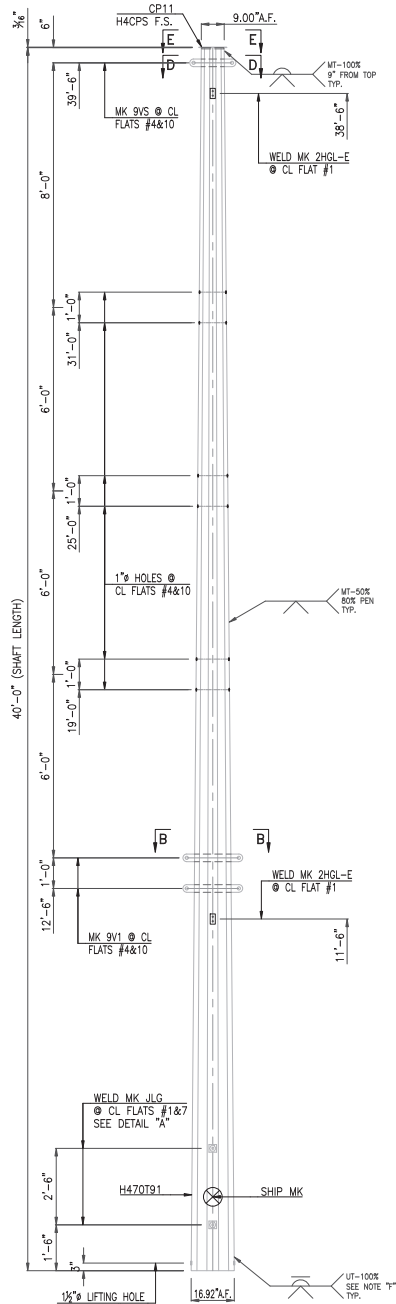
NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
RB	REVISED PER CUSTOMER COMMENTS	10/06/2020	10/07/2020 JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/15/2020		DRAWN BY JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWN	
GALVANIZED STEEL POLES		DATE 11/09/20		DRAWING NUMBER	
STEEL ERECTION (CIR 15/STR 2, 3 & 4)		SX-8901-9SE		RO	

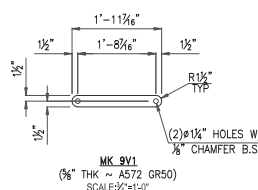
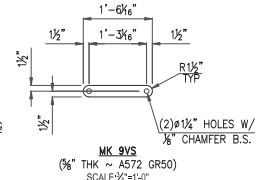
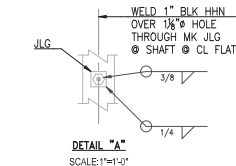
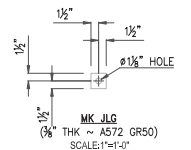
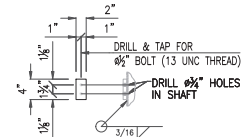
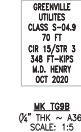
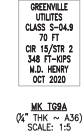
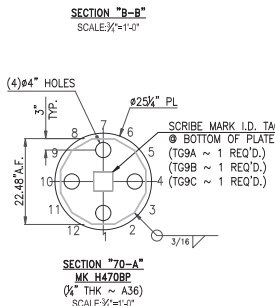
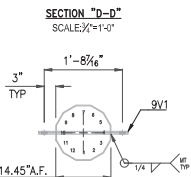
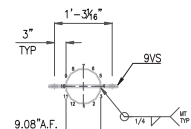
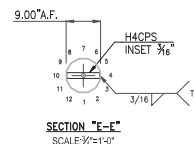
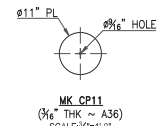
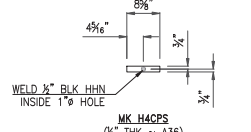
ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER. M.D. HENRY CO., INC. IS NOT RESPONSIBLE FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.



COLUMN MK H470-B9 ~ 3 REQ'D.
(3/8\"/>

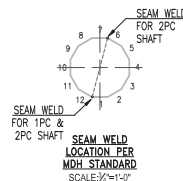


COLUMN MK H470-T91 ~ 2 REQ'D.
(3/8\"/>



WELD NOTE:

F. THE FEMALE SECTION LONGITUDINAL SEAM WELDS IN THE SLIP AREA SHOULD BE COMPLETE-PENETRATION WELDS FOR AT LEAST A LENGTH EQUAL TO THE MAXIMUM SLIP DIMENSION. UT ALL SLIP FIT AREAS PRIOR TO FITTING ANY ADDITIONAL ITEMS TO THE FLATS ADJACENT TO THE SEAMS OF THE SHAFT.



QA INSPECTION

Layout	INITIALS	DATE
Welding		
Pre-Galvanizing		
Post-Galvanizing		
Assembly		

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition)
ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.

NOTES:		NO.	REVISIONS	DATE	BY
1. ALL HOLES 11/16" UNLESS NOTED					
BOLTS 3/4" UNLESS NOTED					
2. ALL STEEL TO BE A36, HOT DIP GALVANIZED					
AFTER FABRICATION, UNLESS NOTED					
3. EDGE DISTANCE 1" UNLESS NOTED					
4. ALL STEEL TO BE STRAIGHT					
ABOUT CENTERLINE					
5. EACH PIECE OF STEEL TO HAVE		RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
ITS MARK STAMPED INTO METAL		RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB
WITH 3/8" HIGH CHARACTERS					
P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/15/2020		DRAWN BY JMB	
AS NOTED		DATE 09/15/2020		CHK'D BY JWN	
GREENVILLE UTILITIES COMMISSION		DATE 11/09/20		RO	
GALVANIZED STEEL POLES		DRAWING NUMBER SX-8901-9A		11/09/20	
STEEL DETAILS (CIR 15/STR 2, 3 & 4)					

1. Procedure

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

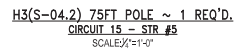
With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

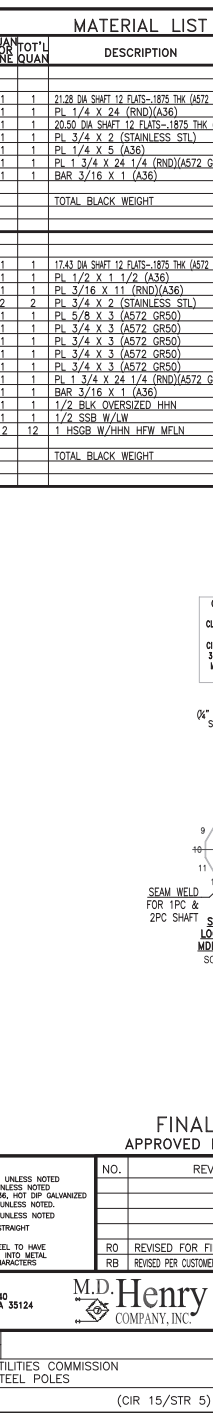
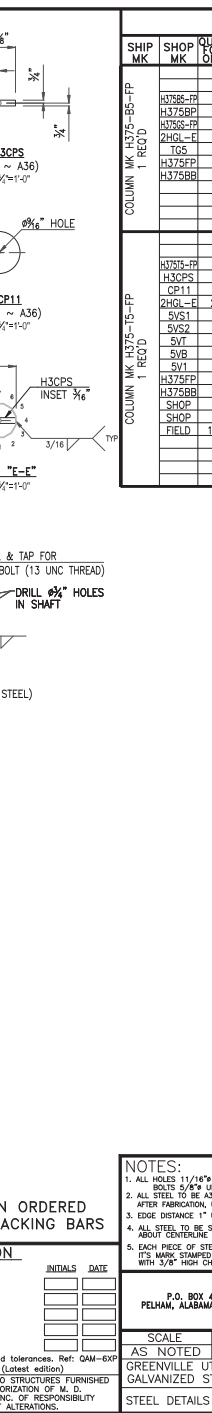
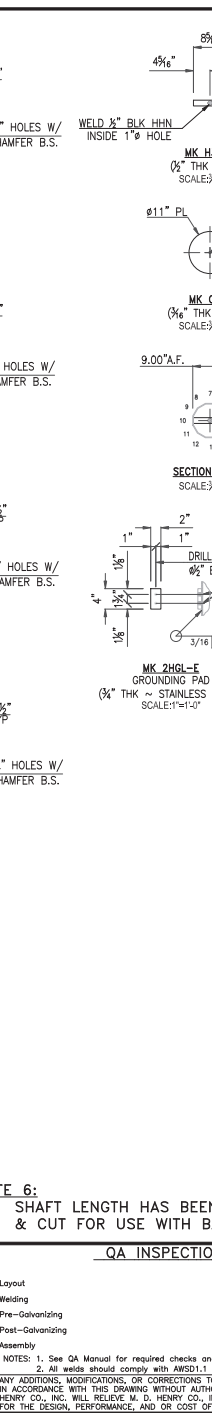
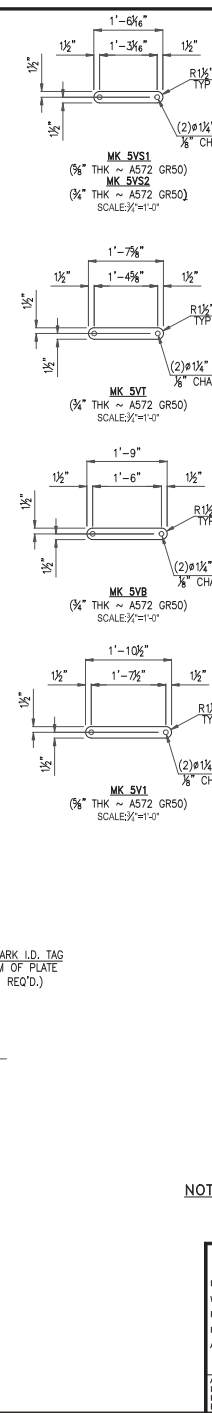
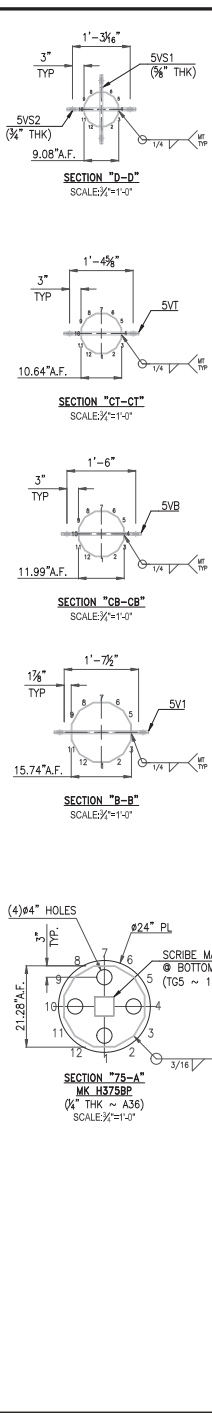
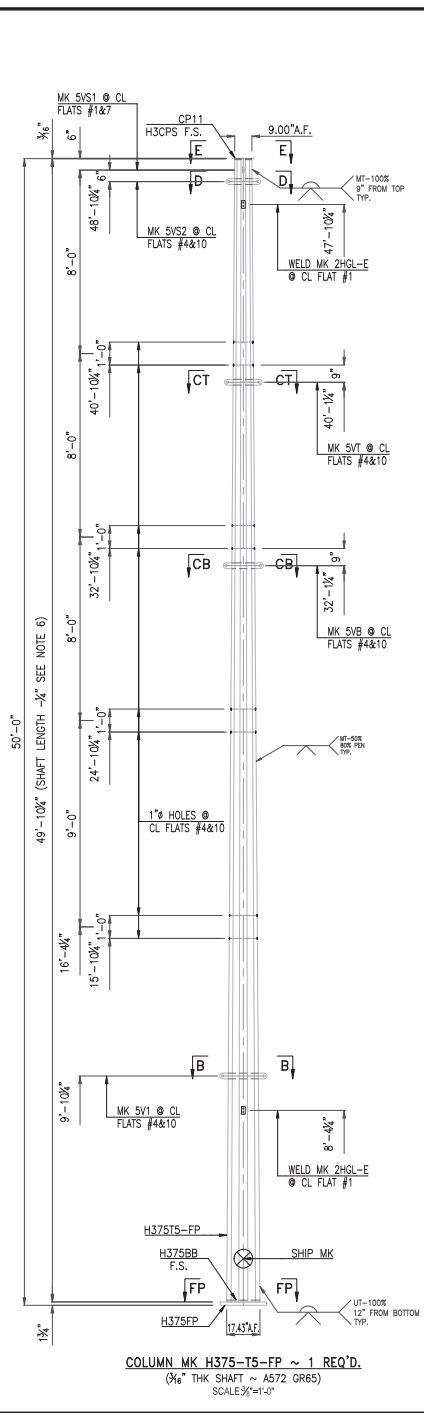
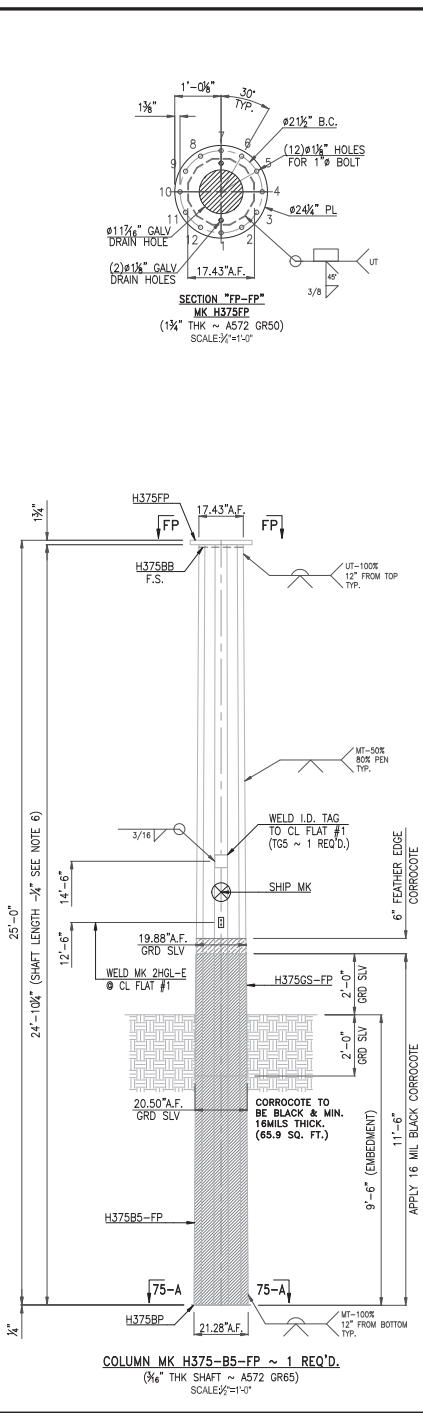
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.



ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/10/20	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		 M.D. Henry COMPANY, INC.		PHONE (205)-663-6711 FAX (205)-663-5718	
SCALE		DRAWN BY JMB DATE 09/10/2020 CHECKED BY DATE			
AS NOTED					
GREENVILLE UTILITIES COMMISSION STALWELL STEEL POLES					
STEEL ERECTION		(CIR 15/STR 5)		DRAWING NUMBER SX-8901-5SE	
				RO	



MATERIAL LIST									
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
COLUMN MK H375-B5-FP									
H375B5-FP	1	1	1	21.28 DIA SHFT 12 FLTS-1875 THK (A572 GR65)	24	10	956.04		
H375BP	1	1	1	PL 1/4 X 24 (RND)(A36)	2	0	28.51		
H375BR	1	1	1	20.50 DIA SHFT 12 FLTS-1875 THK (A36)	4	0	163.07		
H375FP	1	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4	1.70		
H375GS	1	1	1	PL 1/4 X 5 (A36)	0	7	2.48		
H375FP	1	1	1	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	0 1/4	178.21		
H375BR	1	1	1	BAR 3/16 X 1 (A36)	4	5 5/8	2.85		
				TOTAL BLACK WEIGHT			1332.86		
COLUMN MK H375-T5-FP									
H375T5-FP	1	1	1	17.43 DIA SHFT 12 FLTS-1875 THK (A572 GR65)	49	10	1332.04		
H375BP	1	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83		
CP11	1	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05		
H375FP	2	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40		
H375BP	1	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	9.60		
H375GS	1	1	1	PL 3/4 X 3 (A572 GR50)	1	6 1/16	11.52		
H375FP	1	1	1	PL 3/4 X 3 (A572 GR50)	1	7 5/8	12.52		
H375BP	1	1	1	PL 3/4 X 3 (A572 GR50)	1	9	13.40		
H375FP	1	1	1	PL 3/4 X 3 (A572 GR50)	1	10 1/2	14.36		
H375FP	1	1	1	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	0 1/4	178.21		
H375BR	1	1	1	BAR 3/16 X 1 (A36)	4	5 5/8	2.85		
SHOP	1	1	1	1/2 BULK OVERSIZED HHN	0	0	0.00		
SHOP	1	1	1	1/2 SSB W/LW	0	1 1/2	0.00		
FIELD	12	12	12	1 HSGR W/HHN HFW MFLN	0	5 1/4	0.00		
				TOTAL BLACK WEIGHT			1584.78		

NOTE 6:
SHAFT LENGTH HAS BEEN ORDERED & CUT FOR USE WITH BACKING BARS

QA INSPECTION

INITIALS	DATE
Layout	
Welding	
Pre-Galvanizing	
Post-Galvanizing	
Assembly	

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition)
3. Any additions, modifications, or corrections to structures furnished in accordance with this drawing without authorization of M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.

FINAL DRAWING
APPROVED FOR CONSTRUCTION

NOTES:

- ALL HOLES 11/16" UNLESS NOTED
- ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
- EDGE DISTANCE 1" UNLESS NOTED
- ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE
- EACH PIECE OF STEEL TO HAVE 178 MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

NO.	REVISIONS	DATE	BY

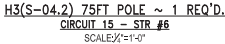
RO REVISOR FOR FINAL ISSUE 11/9/20 BNR
RB REVISED PER CUSTOMER COMMENTS 10/06/2020 10/07/2020 JMB

M.D. Henry COMPANY, INC.
P.O. BOX 40
PELHAM, ALABAMA 35124
PHONE (205)-663-8711
FAX (205)-663-8718

SCALE
AS NOTED

DRAWN BY JMB
DATE 09/10/2020
CHK'D BY JWN
DATE 11/09/20

STEEL DETAILS (CIR 15/STR 5) **DRIVING NUMBER** SX-8901-SA **RO**



1. Procedure

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

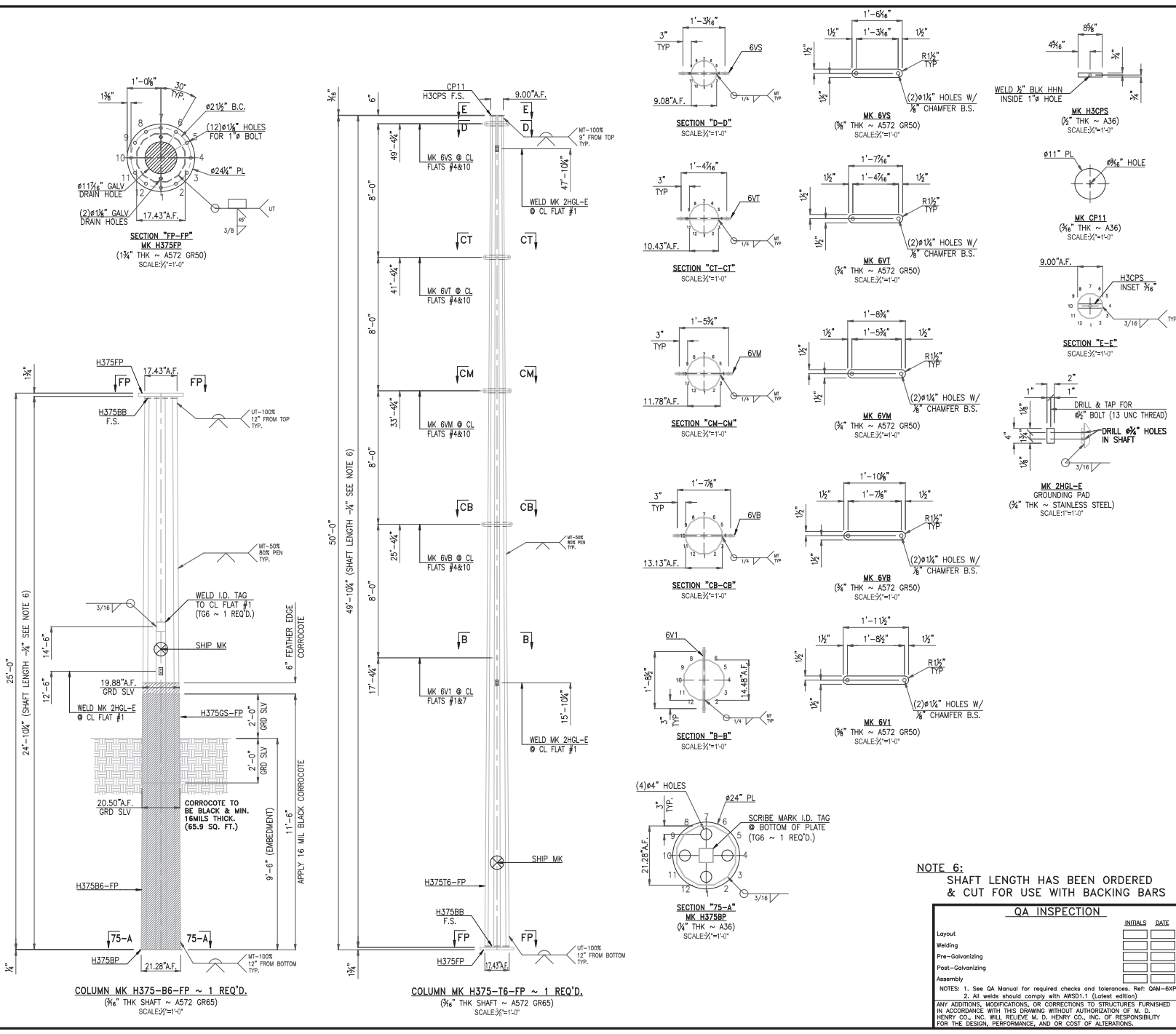
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.



M.D. Henry
COMPANY, INC.

SCALE		DRAWN BY JW
AS NOTED		DATE 09/11/20
GREENVILLE UTILITIES COMMISSION		CHK'D BY JW
GALVANIZED STEEL POLES		DATE 11/09/20

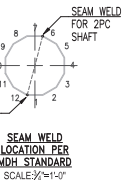
ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MATERIAL LIST									
SHIP MK	SHOP MK	QUANTITY	TOTAL QUANTITY	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
COLUMN MK H375-B6-FP									
H375B-FP	1	1	21.28 DIA SHFT 12 FLTS-1875 THK (A572 GR65)	24	10		956.04		
H375BP	1	1	PL 1/4 X 24 (RND)(A36)	2	0		28.51		
H375FP	1	1	20.50 DIA SHFT 12 FLTS-1875 THK (A36)	4	0		163.07		
2HGL-E	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4		1.70		
TG6	1	1	PL 1/4 X 5 (A36)	0	7		2.48		
H375FP	1	1	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	0 1/4		178.21		
H375BP	1	1	BAR 3/16 X 1 (A36)	4	5 5/8		2.85		
TOTAL BLACK WEIGHT							1332.86		
COLUMN MK H375-T6-FP									
H375B-FP	1	1	17.43 DIA SHFT 12 FLTS-1875 THK (A572 GR65)	49	10		1332.04		
H375BP	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8		1.83		
CP11	1	1	PL 3/16 X 11 (RND)(A36)	0	11		5.05		
2HGL-E	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4		3.40		
6VS	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16		11.52		
6VT	1	1	PL 3/4 X 3 (A572 GR50)	1	7 7/16		12.40		
6VM	1	1	PL 3/4 X 3 (A572 GR50)	1	8 3/4		13.24		
6VB	1	1	PL 3/4 X 3 (A572 GR50)	1	10 1/8		14.12		
6V1	1	1	PL 5/8 X 3 (A572 GR50)	1	11 1/2		12.49		
H375FP	1	1	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	0 1/4		180.41		
H375BP	1	1	BAR 3/16 X 1 (A36)	4	5 5/8		2.85		
SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0		0.00		
SHOP	1	1	1/2 SSB W/LW	0	1 1/2		0.00		
FIELD	12	12	1 HSGR W/HHN HFW MFLN	0	5 1/4		0.00		
TOTAL BLACK WEIGHT							1589.35		

GREENVILLE UTILITIES CLASS 5-042 73 FT CIR 15/STR 6 314 FT-KIPS M.D. HENRY OCT 2020

MK TG6 (3/4" THK ~ A36) SCALE: 1"=1'-0"



NOTE 6:
SHAFT LENGTH HAS BEEN ORDERED & CUT FOR USE WITH BACKING BARS

QA INSPECTION		INITIALS	DATE
Layout			
Welding			
Pre-Galvanizing			
Post-Galvanizing			
Assembly			

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition)
3. In accordance with this drawing without authorization of M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NOTES:

- ALL HOLES 11/16" UNLESS NOTED
- ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
- EDGE DISTANCE 1" UNLESS NOTED
- ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE
- EACH PIECE OF STEEL TO HAVE 178 MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

NO.	REVISIONS	DATE	BY

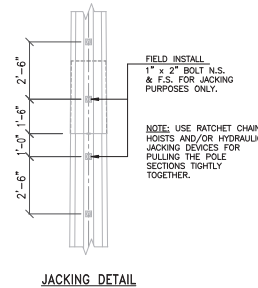
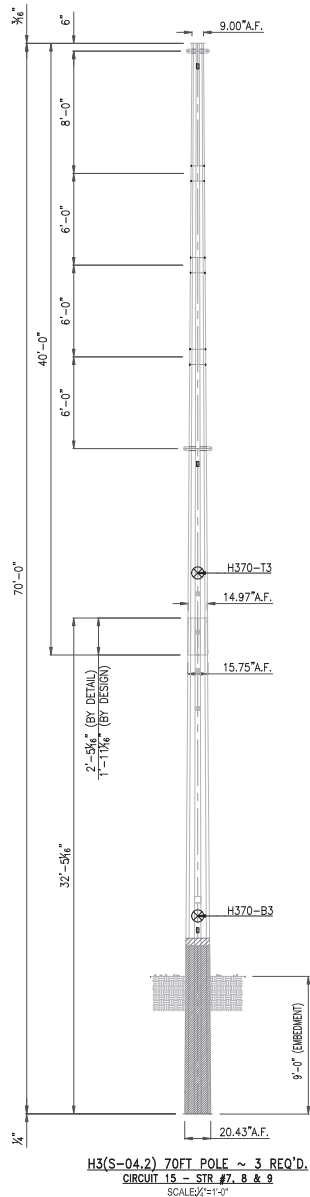
RO REVISOR FOR FINAL ISSUE 11/09/20 BNR
RB REVISED PER CUSTOMER COMMENTS (10/06/2020) 10/07/2020 JMB

M.D. Henry COMPANY, INC.
P.O. BOX 40
PELHAM, ALABAMA 35124
PHONE (205)-663-8711
FAX (205)-663-8718

SCALE:
AS NOTED

DRAWN BY: JMB
CHK'D BY: JWN
DATE: 11/09/20

STEEL DETAILS (CIR 15/STR 6) **SK-8901-6A** **RO**



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

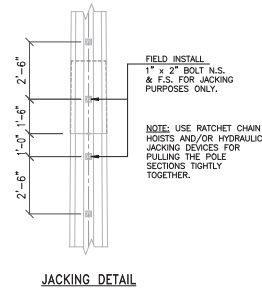
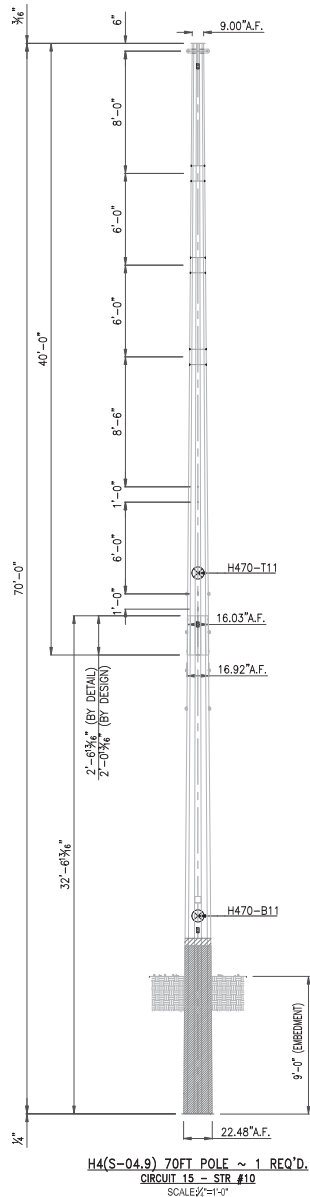
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
RB	REVISED PER CUSTOMER COMMENTS	10/06/2020	10/07/2020 JMB

P.O. BOX 40 PELHAM, ALABAMA 35124				PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/09/2020		DRAWN BY JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWIN	
GALVANIZED STEEL POLES		DATE 11/09/20		DRAWING NUMBER	
STEEL ERECTION (CIR 15/STR 7, 8 & 9)		SX-8901-3SE		RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



SLIP-FIT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

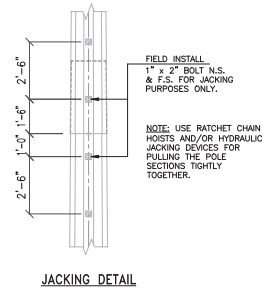
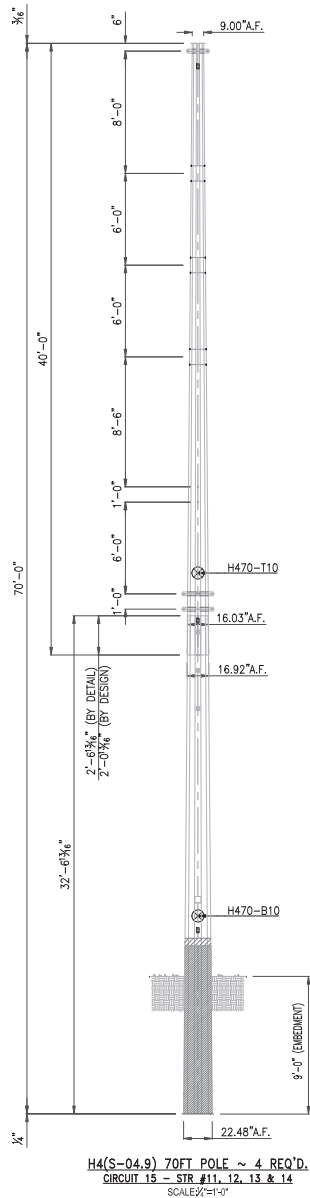
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/26/2020	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/16/2020		DRAWN BY JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWN	
GALVANIZED STEEL POLES		DATE 11/09/20		DRAWING NUMBER	
STEEL ERECTION		(CIR 15/STR 10)		SX-8901-11SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED
IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D.
HENRY CO., INC. WILL RELIEVE M.D. HENRY CO., INC. OF RESPONSIBILITY
FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

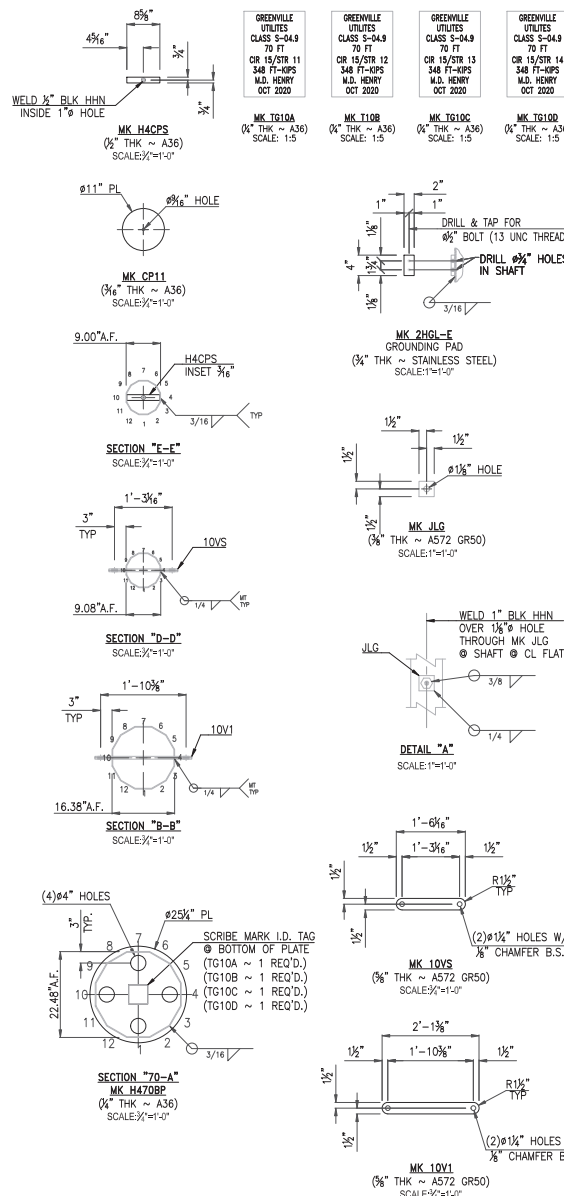
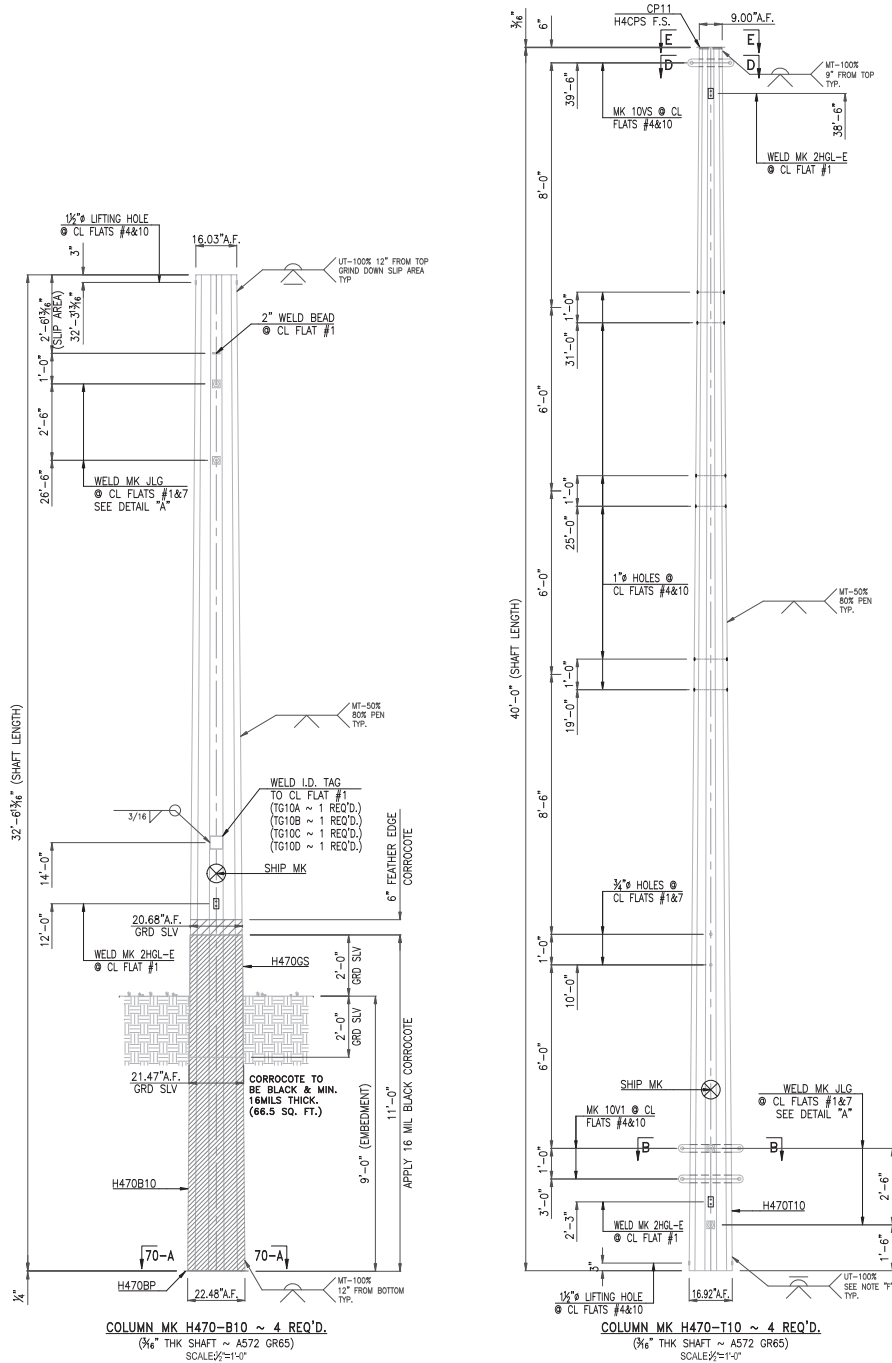
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

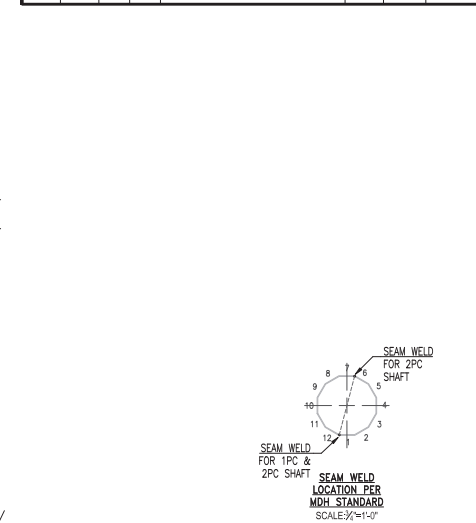
NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/16/2020		DRAWN BY JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWN	
GALVANIZED STEEL POLES		DATE 11/09/20		DRAWING NUMBER	
STEEL ERECTION		(CIR 15/STR 11, 12, 13 & 14)		SX-8901-10SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED
IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D.
HENRY CO., INC. WILL RELIEVE M.D. HENRY CO., INC. OF RESPONSIBILITY
FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.



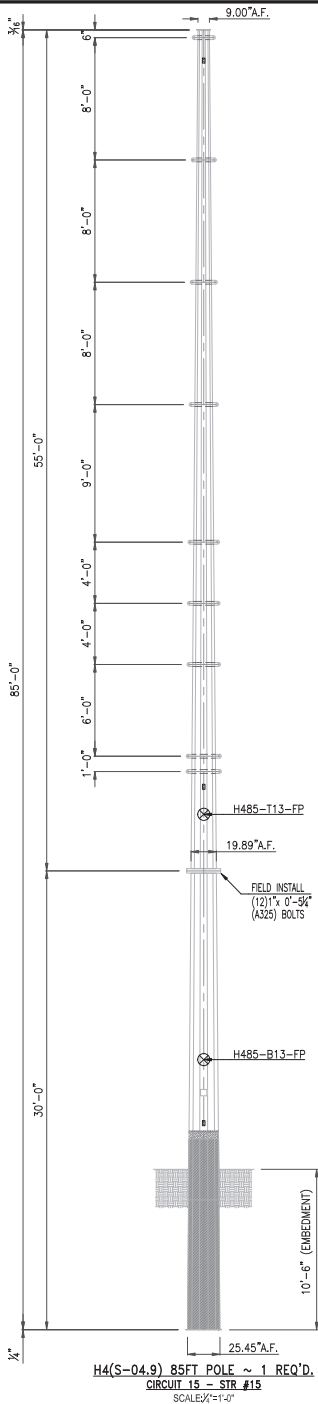
MATERIAL LIST									
SHIP MK	SHOP MK	QUAN FOR ONE	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
H470B10	1	4	22.48 DIA SHFT 12 FLTS-1875 THK (A572 GR65)	32	6	13/16	5096.64		
H470BP	1	4	PL 1/4 X 25 1/4 (RND)(A36)	2	1	1/4	127.74		
H470GS	1	4	21.47 DIA SHFT 12 FLTS-1875 THK (A36)	4	0		685.03		
ZHGL-E	1	4	PL 3/4 X 2 (STAINLESS STL)	0	4		6.81		
TG10	1	4	PL 1/4 X 5 (A36)	0	7		9.92		
JLG	4	16	PL 3/8 X 3 (A572 GR50)	0	3		15.31		
SHOP	4	16	1 BLK OVERSIZED HHN	0	0		0.00		
TOTAL BLACK WEIGHT							5941.45		
H470T10	1	4	16.92 DIA SHFT 12 FLTS-1875 THK (A572 GR65)	40	0		4193.02		
H470PS	1	4	PL 1/2 X 1 1/2 (A36)	0	8	5/8	7.34		
CP11	1	4	PL 3/16 X 11 (RND)(A36)	0	11		20.21		
ZHGL-E	2	8	PL 3/4 X 2 (STAINLESS STL)	0	4		13.61		
JLG	4	16	PL 3/8 X 3 (A572 GR50)	0	3		15.31		
IOVS	1	4	PL 5/8 X 3 (A572 GR50)	1	6	1/16	38.43		
IOV1	2	8	PL 5/8 X 3 (A572 GR50)	2	1	3/8	107.83		
SHOP	1	4	1/2 BLK OVERSIZED HHN	0	0		0.00		
SHOP	1	4	1/2 SSB W/LW	0	1	1/2	0.00		
SHOP	4	16	1 BLK OVERSIZED HHN	0	0		0.00		
FIELD	4	16	1 HSG	0	2		0.00		
TOTAL BLACK WEIGHT							4395.88		



WELD NOTE:
F. THE FEMALE SECTION LONGITUDINAL SEAM WELDS IN THE SLIP AREA SHOULD BE COMPLETE-PENETRATION WELDS FOR AT LEAST A LENGTH EQUAL TO THE MAXIMUM SLIP DIMENSION. UT ALL SLIP FIT AREAS PRIOR TO FITTING ANY ADDITIONAL ITEMS TO THE FLATS ADJACENT TO THE SEAMS OF THE SHAFT.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NOTES:		NO.	REVISIONS	DATE	BY
1. ALL HOLES 11/16" UNLESS NOTED					
2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.					
3. EDGE DISTANCE 1" UNLESS NOTED					
4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE					
5. EACH PIECE OF STEEL TO HAVE 17% MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS		RO	REVISED FOR FINAL ISSUE	11/20/20	BNF
		RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB
P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)---663-8711 FAX (205)---663-8718	
SCALE				DRAWN BY JMB	
AS NOTED				DATE 09/16/2020	
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES				CHK'D BY JWN	
				DATE 11/20/20	
STEEL DETAILS (OR 15/STR 11, 12, 13 & 14)		SX-8901-10A		DRAWING NUMBER	



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

**FINAL DRAWING
APPROVED FOR CONSTRUCTION**

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/06/2020	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40
PELHAM, ALABAMA 35124

M.D. Henry
COMPANY, INC.

PHONE (205)-663-8711
FAX (205)-663-8718

SCALE

AS NOTED

GREENVILLE UTILITIES COMMISSION
GALVANIZED STEEL POLES

DRAWN BY JMB
DATE 09/17/2020
CHK'D BY JWN
DATE 11/09/20

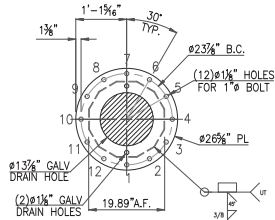
DRAWING NUMBER
SX-8901-13SE

STEEL ERECTION (CIR 15/STR 15) RO

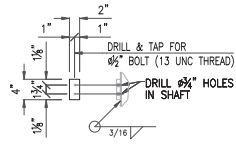
ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

GREENVILLE
UTILITIES
CLASS S-04.8
85 FT
OR 15/STR 15
440 FT-KIPS
M.D. HENRY
OCT 2020

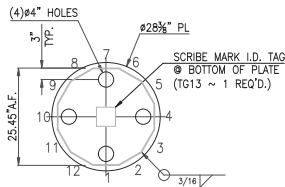
MK_TG13
(1/4" THK ~ A36)
SCALE: 1:5



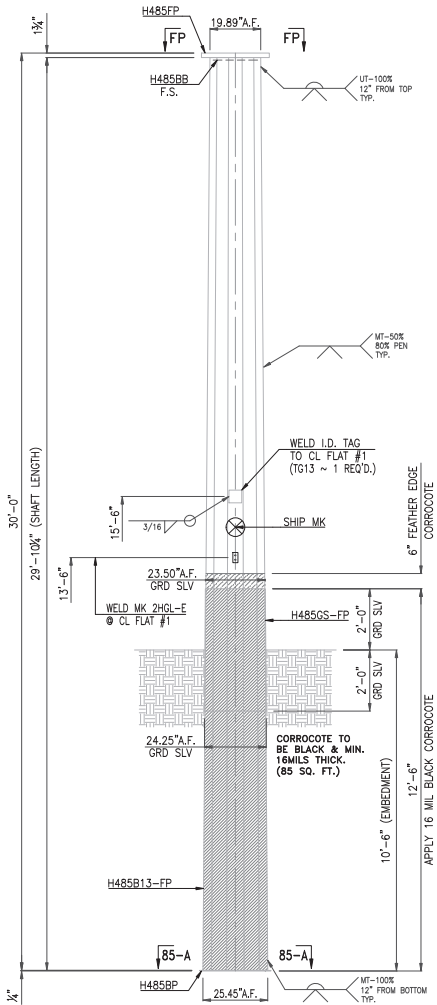
SECTION "FP-FP"
MK H485FP
(1 3/4" THK ~ A572 GR50)
SCALE: 3/4"=1'-0"



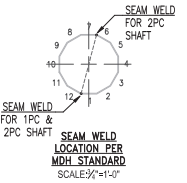
MK 2HGL-E
GROUNDING PAD
(3/4" THK ~ STAINLESS STEEL)
SCALE: 1"=1'-0"



SECTION "B5-A"
MK H485BP
(1/4" THK ~ A36)
SCALE: 3/4"=1'-0"



COLUMN MK H485-B13-FP ~ 1 REQ'D.
(3/16" THK SHAFT ~ A572 GR65)
SCALE: 1/4"=1'-0"



FINAL DRAWING
APPROVED FOR CONSTRUCTION

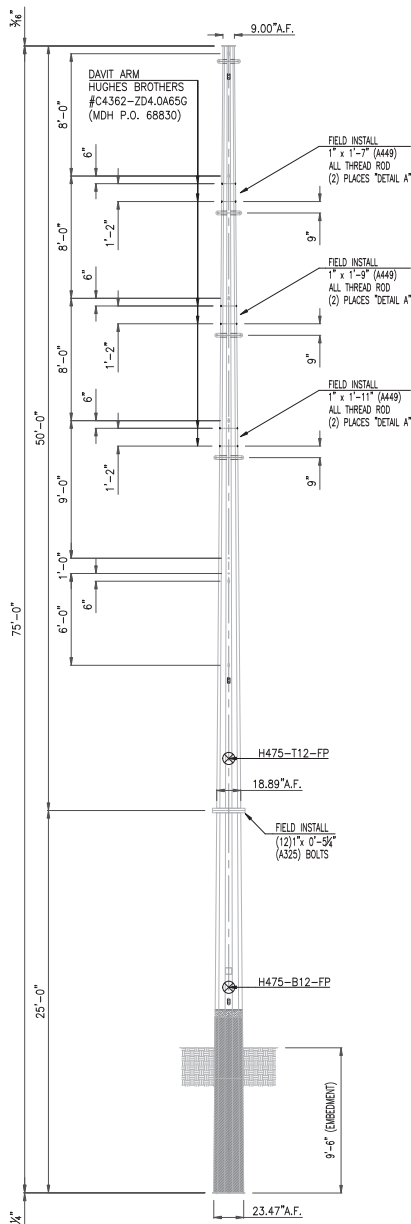
NOTES:

1. ALL HOLES 1 1/16" UNLESS NOTED
2. BOLTS 5/8" UNLESS NOTED
3. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
4. EDGE DISTANCE 1" UNLESS NOTED
5. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE
6. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

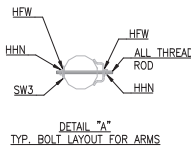
NO.	REVISIONS	DATE	BY

QA INSPECTION	
Layout	INITIALS DATE
Welding	
Pre-Galvanizing	
Post-Galvanizing	
Assembly	
NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP 2. All welds should comply with AWS D1.1 (Latest edition). ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.	

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		AS NOTED		DRAWN BY JMB	
GREENVILLE UTILITIES COMMISSION		DATE 09/17/2020		CHK'D BY JWN	
GALVANIZED STEEL POLES		DATE 11/09/20		DRAWING NUMBER	
STEEL DETAILS		(CIR 15/STR 15)		SX-8901-13A	
				RO	



H4(S-04.9) 75FT POLE ~ 1 REQ'D.
CIRCUIT 15 - STR #16
SCALE: 1/2"=1'-0"



SLIP-FIT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft down to indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

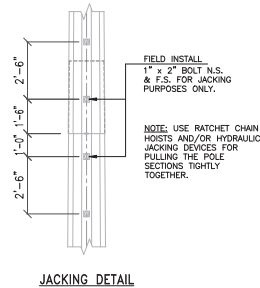
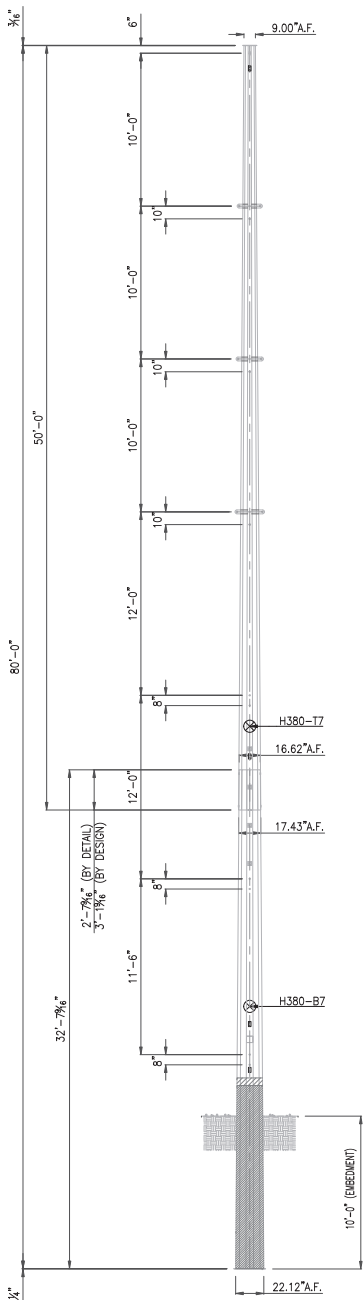
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING
APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/06/2020	BNR
RB	REVISED PER CUSTOMER COMMENTS	10/06/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/18/2020		DRAWN BY: JMB	
AS NOTED		CHK'D BY: JWIN		DATE: 11/09/20	
GREENVILLE UTILITIES COMMISSION		DRAWING NUMBER			
GALVANIZED STEEL POLES		STEEL ERECTION		(CIR 15/STR 16)	
		SX-8901-12SE		RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

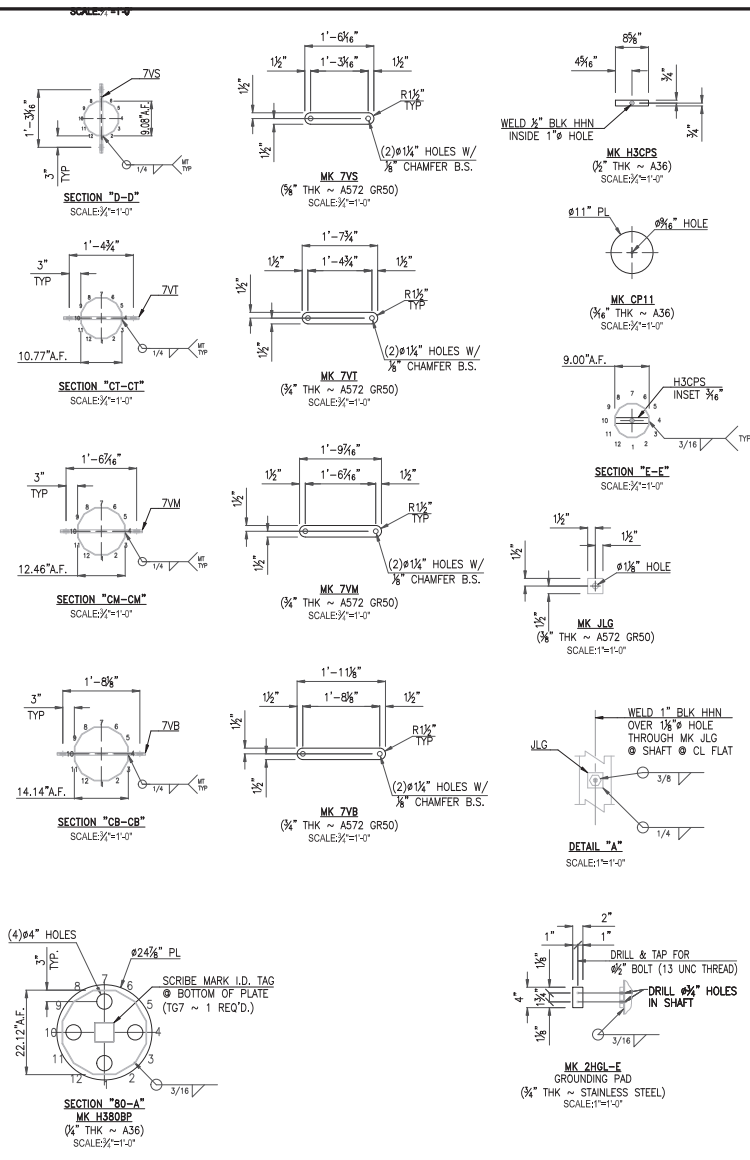
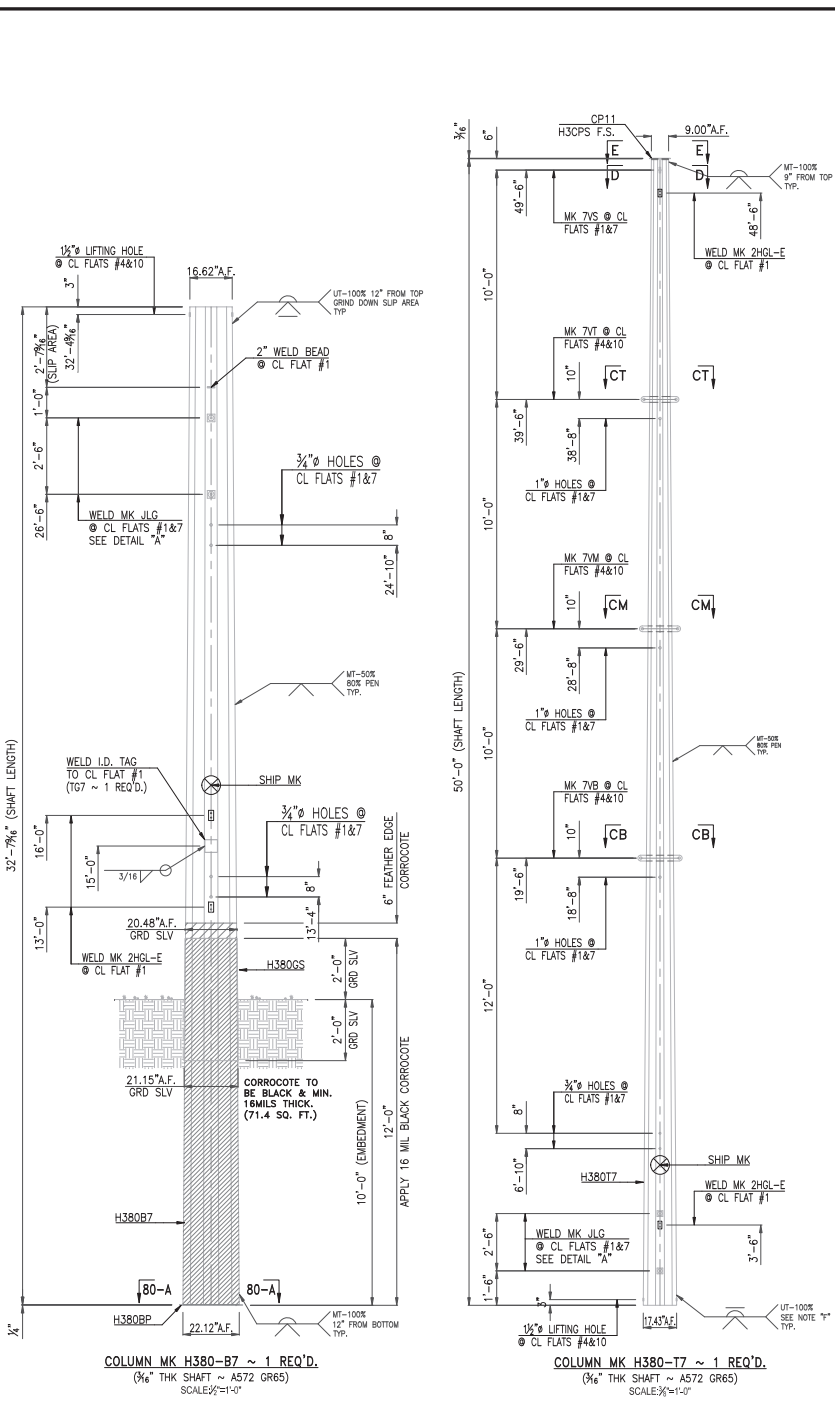
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/14/2020		DRAWN BY JMB	
AS NOTED		CHK'D BY JWN		DATE 11/09/20	
GREENVILLE UTILITIES COMMISSION		STEEL ERECTION		(CIR 15/STR 17)	
GALVANIZED STEEL POLES		DRAWING NUMBER		SX-8901-7SE	
				RO	

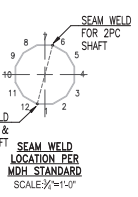
ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MATERIAL LIST									
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
COLUMN MK H380-B7 REQ'D	H380B7	1	1	22.12 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	32	7 9/16	1284.31		
	H380BP	1	1	PL 1/4 X 24 7/8 (RND)(A36)	2	0 7/8	30.89		
	H380GS	1	1	21.15 DIA SHFT 12 FLATS-1875 THK (A36)	4	0	169.29		
	2HGL-E	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4	1.70		
	TGT	1	1	PL 1/4 X 5 (A36)	0	7	2.48		
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0	3	3.83		
	SHOP	4	4	1 BLK OVERSIZED HHN	0	0	0.00		
				TOTAL BLACK WEIGHT			1492.50		
COLUMN MK H380-T7 1 REQ'D	H380T7	1	1	17.43 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	50	0	1336.49		
	H380PS	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83		
	CP11	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05		
	2HGL-E	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40		
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0	3	3.83		
	7VS	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	9.60		
	7VT	1	1	PL 3/4 X 3 (A572 GR50)	1	7 3/4	12.60		
	7VM	1	1	PL 3/4 X 3 (A572 GR50)	1	9 7/16	13.68		
	7VB	1	1	PL 3/4 X 3 (A572 GR50)	1	11 1/8	14.75		
	SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00		
	SHOP	4	4	1 BLK OVERSIZED HHN	0	0	0.00		
	FIELD	4	4	1 HSG	0	1 1/2	0.00		
				TOTAL BLACK WEIGHT			1401.23		

GREENVILLE UTILITIES CLASS 5-042 80' CIR 15/STR 17 340 FT-KIPS M.D. HENRY OCT 2020

MK TGT ($\frac{3}{8}$ " THK ~ A36) SCALE: 1"=1'-0"



WELD NOTE:
F. THE FEMALE SECTION LONGITUDINAL SEAM WELDS IN THE SLIP AREA SHOULD BE COMPLETE-PENETRATION WELDS FOR AT LEAST A LENGTH EQUAL TO THE MAXIMUM SLIP DIMENSION. UT ALL SLIP FIT AREAS PRIOR TO FITTING ANY ADDITIONAL ITEMS TO THE FLATS ADJACENT TO THE SEAMS OF THE SHAFT.

QA INSPECTION

Layout	INITIALS	DATE
Welding		
Pre-Galvanizing		
Post-Galvanizing		
Assembly		

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition).
3. In accordance with this drawing without authorization of M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NOTES:
1. ALL HOLES 11/16" UNLESS NOTED
2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
3. EDGE DISTANCE 1" UNLESS NOTED
4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE
5. EACH PIECE OF STEEL TO HAVE 17% MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

NO.	REVISIONS	DATE	BY

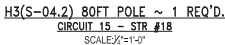
RO REVISOR FOR FINAL ISSUE 11/09/20 BNR
RB REVISOR PER CUSTOMER COMMENTS 10/06/2020 10/07/2020 JMB

M.D. Henry COMPANY, INC.
P.O. BOX 40 PELHAM, ALABAMA 35124
PHONE (205)-663-8711 FAX (205)-663-8718

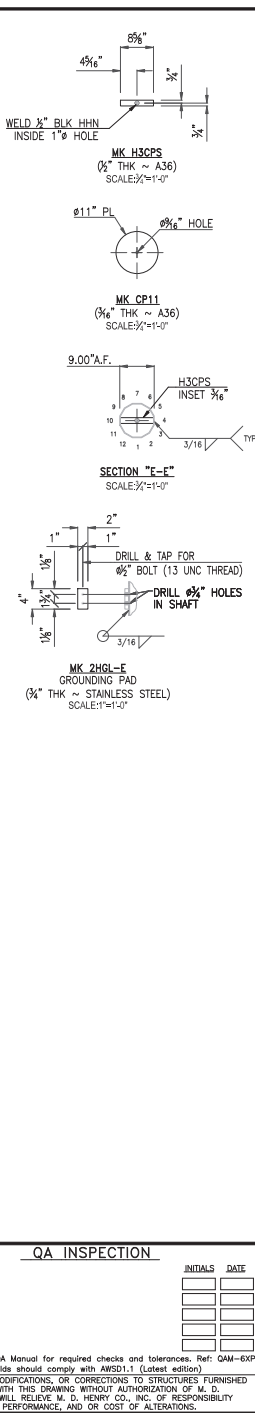
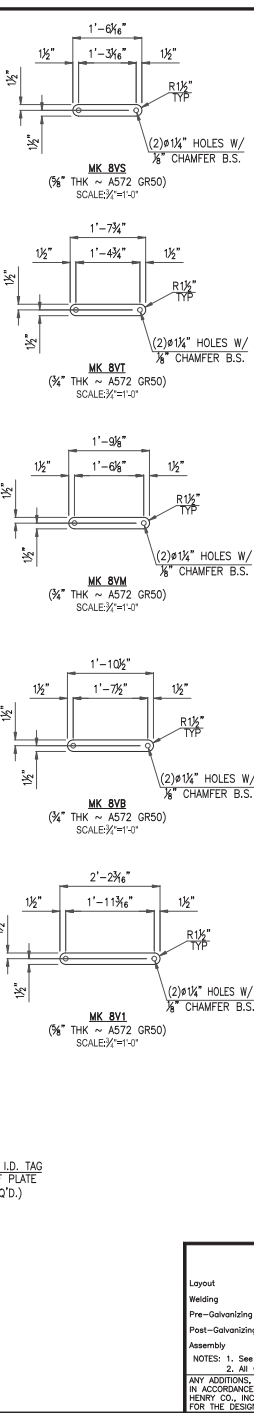
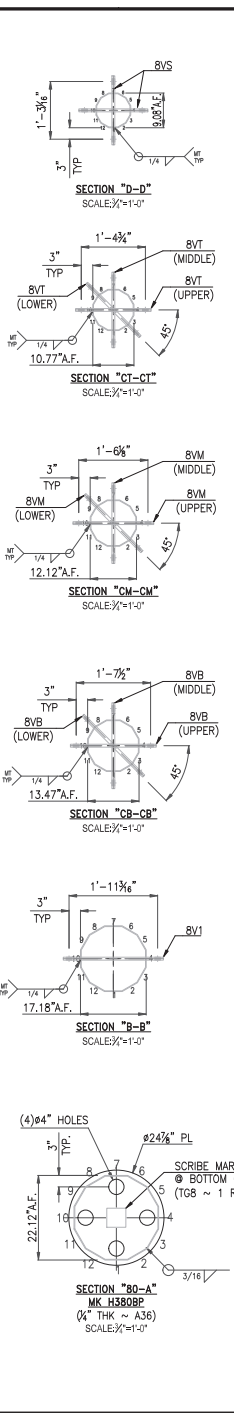
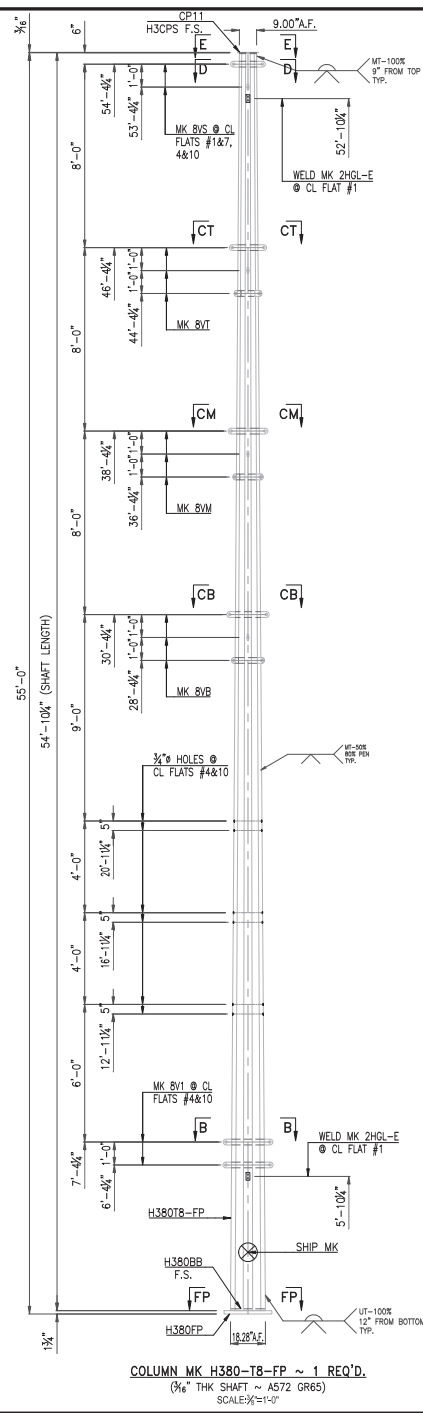
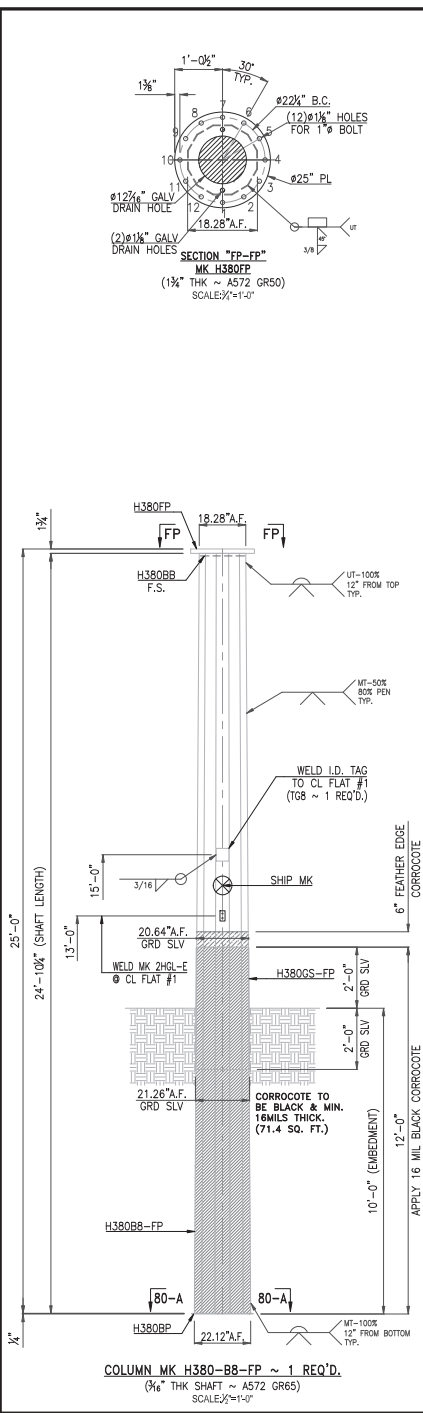
SCALE:
AS NOTED
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES

DRAWN BY: JMB
DATE: 09/14/2020
CHK'D BY: JWN
DATE: 11/09/20

STEEL DETAILS (CIR 15/STR 17) **DRIVING NUMBER** SX-8901-7A **RO**



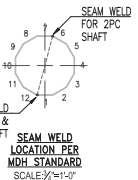
ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MATERIAL LIST									
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
COLUMN MK H380-B8-FP									
H380BP	1	1	1	22.12 DIA SHFT 12 FLTS-1875 THK (A572 GR50)	24	10 1/4	999.10		
H380BP	1	1	1	PL 1/4 X 24 7/8 (RND)(A36)	2	0 7/8	30.89		
H380BP	1	1	1	21.26 DIA SHFT 12 FLTS-1875 THK (A36)	4	0	169.29		
H380BP	1	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4	1.70		
H380BP	1	1	1	PL 1/4 X 5 (A36)	0	7	2.48		
H380BP	1	1	1	PL 1 3/4 X 25 (RND)(A572 GR50)	2	1	183.30		
H380BP	1	1	1	BAR 3/16 X 1 (A36)	4	8 3/8	3.00		
TOTAL BLACK WEIGHT							1389.76		
COLUMN MK H380-T8-FP									
H380BP	1	1	1	18.28 DIA SHFT 12 FLTS-1875 THK (A572 GR50)	54	10 1/4	1514.02		
H380BP	1	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83		
CP11	1	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05		
H380BP	1	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40		
H380BP	1	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	19.21		
H380BP	1	1	1	PL 3/4 X 3 (A572 GR50)	1	7 3/4	37.80		
H380BP	1	1	1	PL 3/4 X 3 (A572 GR50)	1	9 1/8	40.43		
H380BP	1	1	1	PL 3/4 X 3 (A572 GR50)	1	10 1/2	43.07		
H380BP	1	1	1	PL 5/8 X 3 (A572 GR50)	2	2 3/16	27.85		
H380BP	1	1	1	PL 1 3/4 X 25 (RND)(A572 GR50)	2	1	245.59		
H380BP	1	1	1	BAR 3/16 X 1 (A36)	4	8 3/8	3.00		
H380BP	1	1	1	1/2 BULK OVERSIZED HHN	0	0	0.00		
H380BP	1	1	1	1/2 SSB W/LW	0	1 1/2	0.00		
H380BP	1	1	1	1 HSGH W/HHN HFW MFLN	0	5 1/4	0.00		
TOTAL BLACK WEIGHT							1939.25		

GREENVILLE UTILITIES CLASS 5-42 80 FT CIR 15/STR 18 340 FT-KIPS M.D. HENRY OCT 2020

MK TGB (1/8" THK ~ A36) SCALE: 1/8"=1'-0"

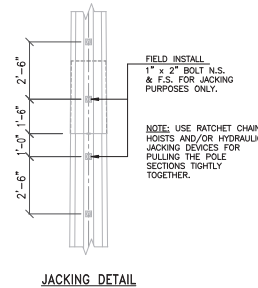
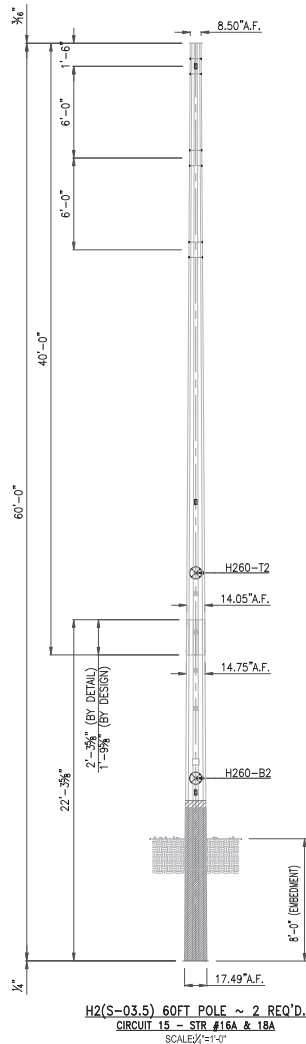


FINAL DRAWING APPROVED FOR CONSTRUCTION

NOTES:				REVISIONS			
1. ALL HOLES 11/16" UNLESS NOTED	2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.	3. EDGE DISTANCE 1" UNLESS NOTED	4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE	NO.	REVISIONS	DATE	BY
5. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS							
REVISOR FOR FINAL ISSUE							
REVISED PER CUSTOMER COMMENTS (10/06/2020)							
DATE: 09/14/2020							
CHK'D BY: JMB							
DATE: 11/09/20							
DRAWING NUMBER: SX-8901-BA							
STEEL DETAILS							

QA INSPECTION		INITIALS	DATE
Layout			
Welding			
Pre-Galvanizing			
Post-Galvanizing			
Assembly			
NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP			
2. All welds should comply with AWS D1.1 (Latest edition)			
ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.			

P.O. BOX 40
PELHAM, ALABAMA 35124
SCALE: AS NOTED
GREENVILLE UTILITIES COMMISSION
GALVANIZED STEEL POLES
PHONE (205)-663-8711
FAX (205)-663-8718
DRAWN BY: JMB
CHK'D BY: JMB
DATE: 11/09/20
DRAWING NUMBER: SX-8901-BA
STEEL DETAILS (CIR 15/STR 18)



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

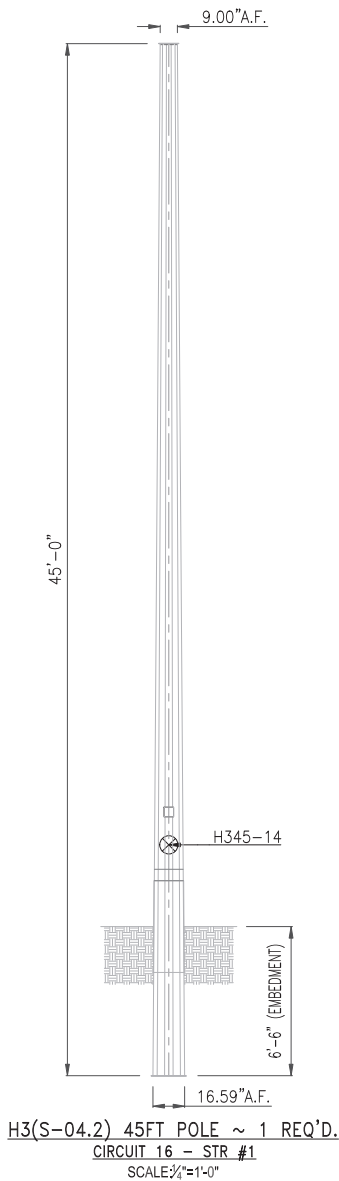
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/09/20	BNR
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/02/2020		DRAWN BY: JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWIN	
GALVANIZED STEEL POLES		DATE: 11/09/20		DRAWING NUMBER	
STEEL ERECTION (CIR 15/STR 16A & 18A)		SX-8901-2SE		RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

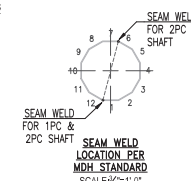
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/12/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/16/2020		DRAWN BY: JLS	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN	
GALVANIZED STEEL POLES		DATE: 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 16 / STR 1)		SX-8901-14SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



<h2 style="margin: 0;">FINAL DRAWING</h2> <h3 style="margin: 0;">APPROVED FOR CONSTRUCTION</h3>			
NOTES:	NO.	REVISIONS	DATE BY
1. ALL HOLES 1/16" UNLESS NOTED			
2. BOLTS 5/8" UNLESS NOTED			
3. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.			
4. EDGE DISTANCE: 1" UNLESS NOTED.			
5. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE			
6. EACH PIECE OF STEEL TO HAVE ITS NAME STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS	RO	REVISED FOR FINAL ISSUE	11/12/2020 JMB
	RB	REVISED FOR CUSTOMER COMMENTS	10/06/2020 10/12/2020 JMB

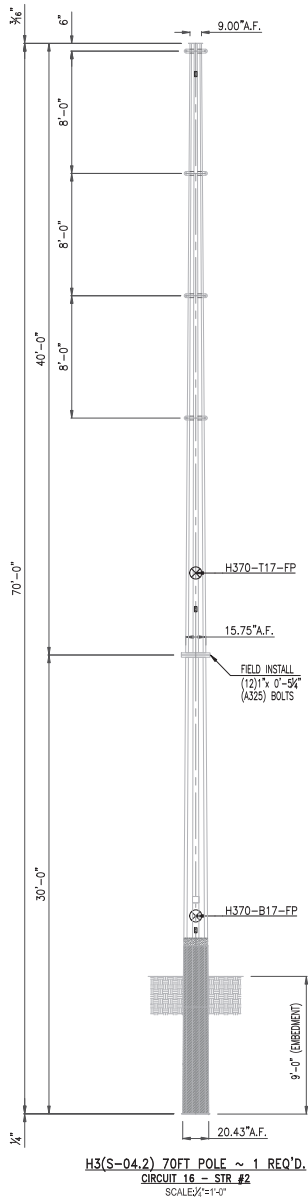
P.O. BOX 40
PELHAM, ALABAMA 35124

PHONE (205)-663-8711
FAX (205)-663-8718

M.D. Henry
COMPANY, INC.

SCALE	DRAWN BY: JLS
AS NOTED	DATE: 08/16/2020
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES	CHK'D BY: JWN
	DATE: 11/12/2020

DRAWING NUMBER:	R0
(CIR 16 / STR 1)	SX-8901-14A



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

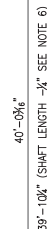
NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/12/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/09/2020		DRAWN BY: JLS	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN	
GALVANIZED STEEL POLES		DATE: 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 16/STR 2)		SX-8901-17SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE RESPONSIBILITY OF THE USER. M.D. HENRY CO., INC. WILL NOT BE RESPONSIBLE FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



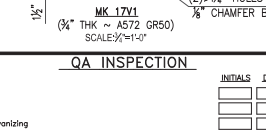
COLUMN MK H370-B17-FP ~ 1 REQ'D.
($\frac{3}{16}$ " THK SHAFT ~ A572 GR65)



COLUMN MK H370-T17-FP ~ 1 REQ'D.
(3/8" THK SHAFT ~ A572 GR65)
SCALE 3/4"=1'-0"



MK TG17
 (1/4" THK ~ A36)
 SCALE: 1:5



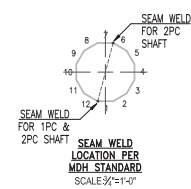
QA INSPECTION

Layout	<input type="checkbox"/>	<input type="checkbox"/>
Welding	<input type="checkbox"/>	<input type="checkbox"/>
Pre-Galvanizing	<input type="checkbox"/>	<input type="checkbox"/>
Post-Galvanizing	<input type="checkbox"/>	<input type="checkbox"/>
Assembly	<input type="checkbox"/>	<input type="checkbox"/>

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6X
2. All welds should comply with AWS D1.1 (Latest edition)


ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

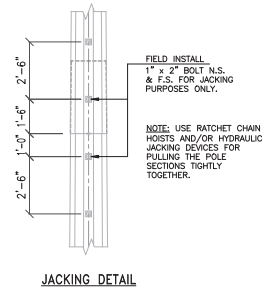
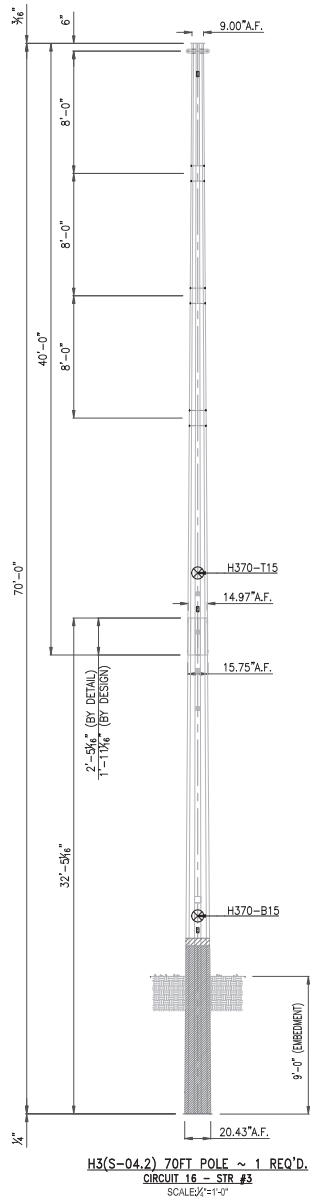
MATERIAL LIST									
SHIP	SHOP	QUAN	TOTL	DESCRIPTION	LENGTH		TOTAL	BLK. WT.	
WK		FOR ONE	QUAN		FT.	IN.			
COLUMIAN MK 13700-B17-1P 1 REQ'D	H370B1-1P	1	1	20.43 DIA SHAFT 12 FLATS-1875 THK (A572 GR65)	29	10	1071.92		
	H370B8-1P	1	1	PL 1/4 X 23 1/8 (RND)(A36)	1	11 1/8	26.21		
	H370G5-1P	1	1	PL 7/8 DIA SHAFT 12 FLATS-1875 THK (A36)	4	0	156.83		
	2HG6-E	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4	1.70		
	1T017	1	1	PL 1/4 X 3.5 (A36)	0	7	2.48		
	H370DF	1	1	PL 1 3/4 X 22 1/2 (A572 GR50)	1	10 1/2	160.26		
	H370B8	1	1	BAR 3/16 X 1 (A36)	4	0 1/4	2.57		
				TOTAL BLACK WEIGHT			1421.97		
COLUMIAN MK 13700-117-1P 1 REQ'D	H370117-1P	1	1	15.75 DIA SHAFT 12 FLATS-1875 THK (A572 GR65)	39	10	996.12		
	H37C35	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83		
	CP111	1	1	PL 3/16 X 1 (RND)(A36)	0	11	5.05		
	2HG3-E	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40		
	17V5	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	9.60		
	17V3	1	1	PL 3/4 X 3 (A572 GR50)	1	7 7/16	12.40		
	17V2	1	1	PL 3/4 X 3 (A572 GR50)	1	8 13/16	13.28		
	17V1	1	1	PL 3/4 X 3 (A572 GR50)	1	10 1/8	14.12		
	H370DF	1	1	PL 1 3/4 X 22 1/2 (A572 GR50)	1	10 1/2	160.26		
	H370B8	1	1	BAR 3/16 X 1 (A36)	4	0 1/4	2.57		
SHOP	SHOP			1/2 BLK OVERSIZED HHN	0	0	0.00		
	SHOP			1/2 SSB W/W	0	1 1/2	0.00		
	FIELD	12	12	1 H50B W/HHN HFW MFLN	0	5 1/4	0.00		
			TOTAL BLACK WEIGHT			1218.63			



NOTE 6:
SHAFT LENGTH HAS BEEN ORDERED
& CUT FOR USE WITH BACKING BARS

FINAL DRAWING
APPROVED FOR CONSTRUCTION

ALL NOTES: 1. ALL NOTES: 11/16" UNLESS NOTED BOLTS 5/8" UNLESS NOTED 2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED. 3. EDGE DISTANCE 1" UNLESS NOTED 4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE 5. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 5/8" HIGH CHARACTERS	NO.	REVISIONS	DATE	BY
	RO	REVISED FOR FINAL ISSUE	11/20/2010	JMB
	RB	REVISED PER CUSTOMER COMMENTS (10/06/2010)	10/20/2010	JMB
P.O. BOX 40 PELHAM, ALABAMA 35124			PHONE (205)-663-6711 FAX (205)-663-5718	
SCALE			DRAIN BY JLS	
AS NOTED			DATE 09/09/2010	
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES			CHK'D BY JWIN DATE 11/12/2010	
PROJECT DETAILS	(CIR 16/STR 2)	DRAWING NUMBER SX-8901-17A	RO	



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

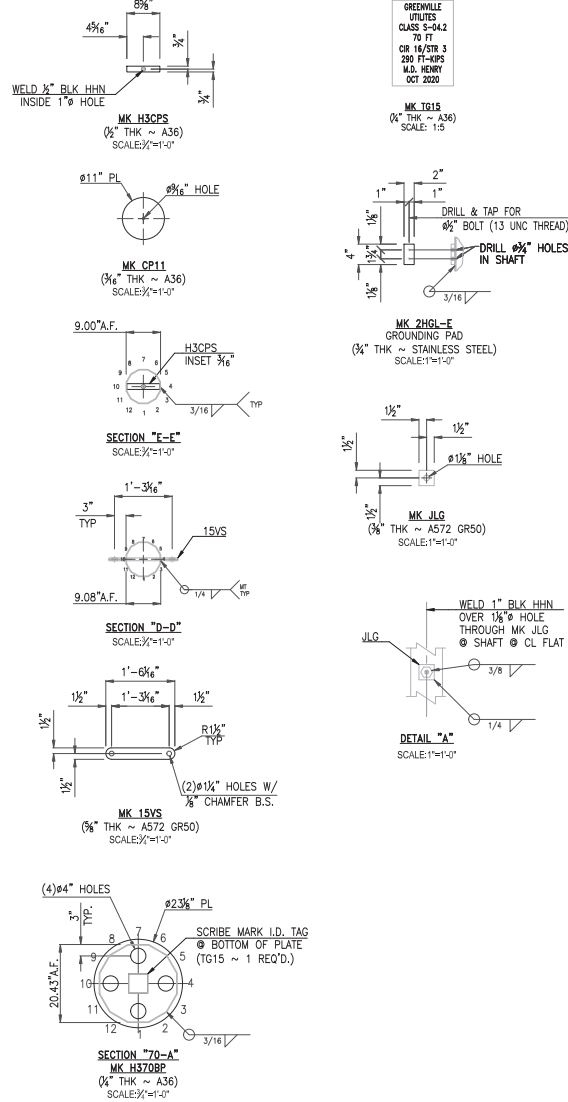
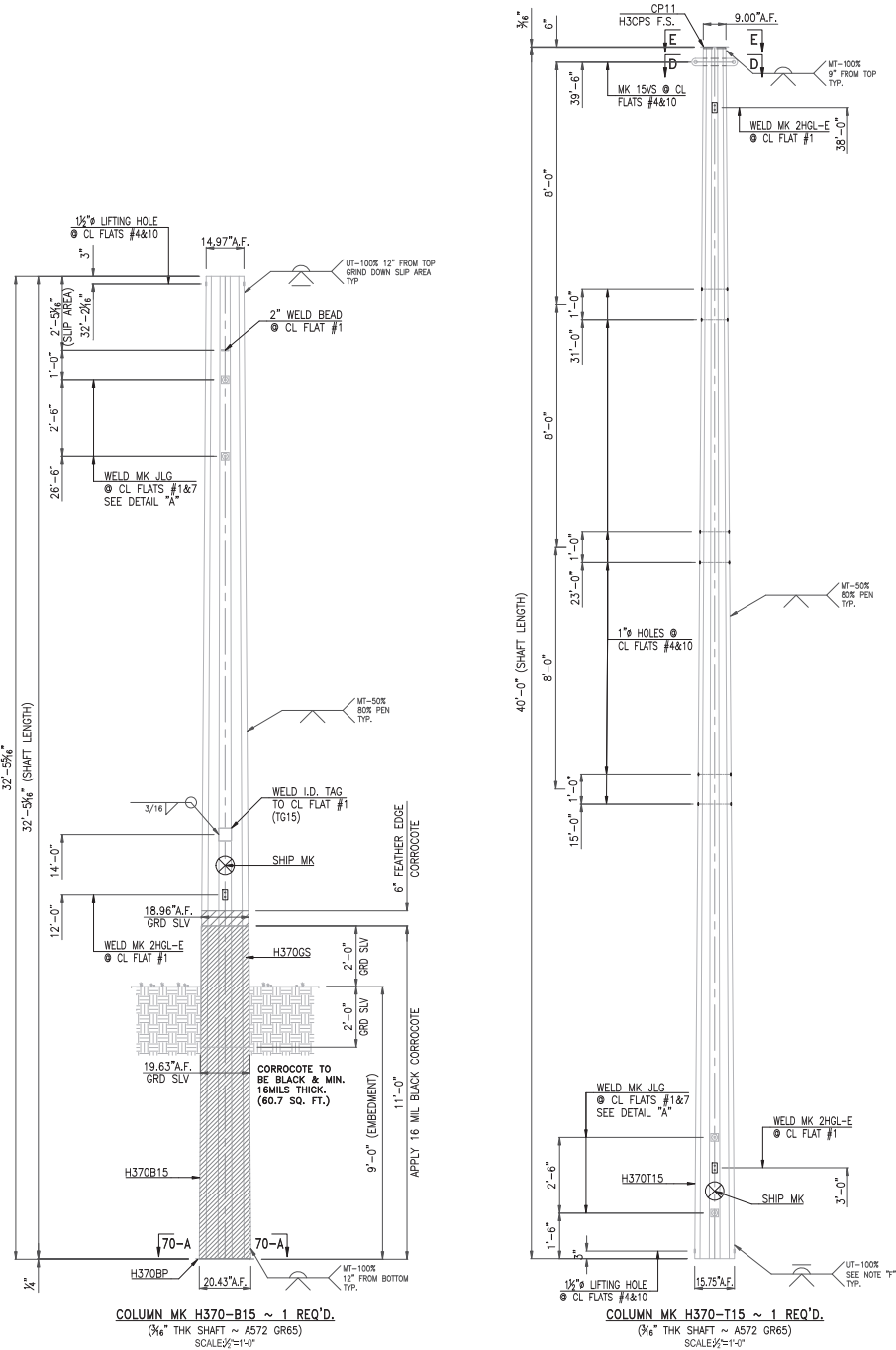
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/12/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124				PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/09/2020		DRAWN BY JLS	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWN	
GALVANIZED STEEL POLES		DATE 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 16/STR 3)		SX-8901-15SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MATERIAL LIST					
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT. IN. TOTAL BLK. WT.
COLUMN MK H370-B15 REQ'D	H370B15	1	1	20.43 DIA SHAFT 12 FLATS-1875 THK (A572 GR65)	32 5 1/16 1164.92
	H370BP	1	1	PL 1/4 X 23 1/8 (RND)(A36)	1 11 1/8 26.21
	H370GS	1	1	18.63 DIA SHAFT 12 FLATS-1875 THK (A36)	4 0 156.83
	2HGL-E	1	1	PL 3/4 X 2 (STAINLESS STL)	0 4 1.70
	TG15	1	1	PL 1/4 X 5 (A36)	0 7 2.48
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0 3 3.83
	SHOP	4	4	1 BLK OVERSIZED HHN	0 0 0.00
				TOTAL BLACK WEIGHT	1355.92
COLUMN MK H370-T15 REQ'D	H370T15	1	1	15.75 DIA SHAFT 12 FLATS-1875 THK (A572 GR65)	40 0 1000.29
	H370PS	1	1	PL 1/2 X 1 1/2 (A36)	0 8 5/8 1.83
	CP11	1	1	PL 3/16 X 11 (RND)(A36)	0 11 5.05
	2HGL-E	2	2	PL 3/4 X 2 (STAINLESS STL)	0 4 3.40
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0 3 3.83
	3VS	1	1	PL 5/8 X 3 (A572 GR50)	1 6 1/16 9.60
	SHOP	1	1	1/2 BLK OVERSIZED HHN	0 0 0.00
	SHOP	1	1	1/2 SSB W/LW	0 1 1/2 0.00
	SHOP	4	4	1 BLK OVERSIZED HHN	0 0 0.00
	FIELD	4	4	1 HSG	0 2 0.00
				TOTAL BLACK WEIGHT	1024.00

FINAL DRAWING
APPROVED FOR CONSTRUCTION

NOTES:
1. ALL HOLES 11/16" UNLESS NOTED
2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
3. EDGE DISTANCE 1" UNLESS NOTED
4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE
5. EACH PIECE OF STEEL TO HAVE 178 MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

NO. **REVISIONS** **DATE** **BY**

REVISOR FOR FINAL ISSUE 11/12/2020 JMB
REVISED PER CUSTOMER COMMENTS (10/06/2020) (10/12/2020) JMB

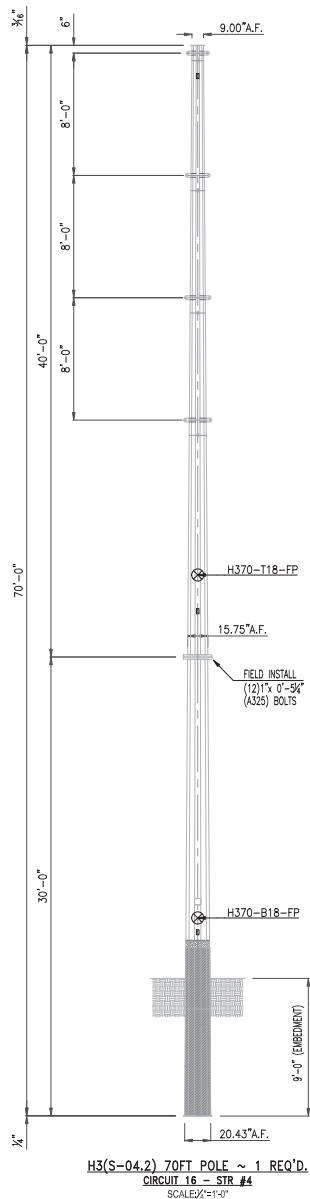
P.O. BOX 40
PELHAM, ALABAMA 35124

M.D. Henry
COMPANY, INC.

PHONE (205)-663-8711
FAX (205)-663-8718

SCALE **DRAWN BY JMB**
DATE 09/09/2020
CHK'D BY JWN
DATE 11/12/2020

STEEL DETAILS **(CIR 16/STR 3)** **DRIVING NUMBER** **RO**



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

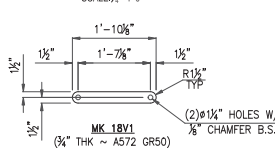
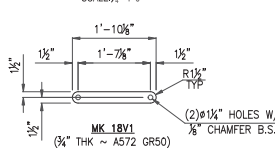
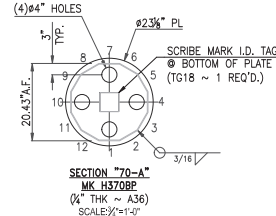
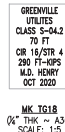
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.


FINAL DRAWING APPROVED FOR CONSTRUCTION

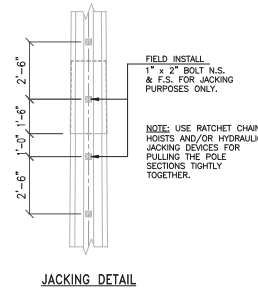
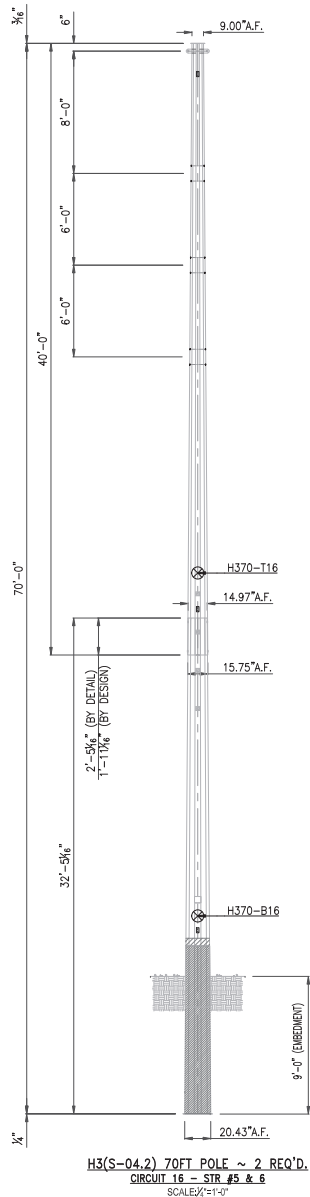
NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/09/2020		DRAWN BY: JLS	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN	
GALVANIZED STEEL POLES		DATE: 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 16/STR 4)		SX-8901-18SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE RESPONSIBILITY OF THE USER. M.D. HENRY CO., INC. WILL NOT BE RESPONSIBLE FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



NOTES: 1. ALL HOLES 1/16" UNLESS NOTED BOLTS 5/8" UNLESS NOTED 2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED 3. EDGE DISTANCE 1" UNLESS NOTED 4. ALL STEEL TO BE STRAIGHT ABOUT CENTRALLINE 5. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS		NO.		REVISIONS		DATE BY	
		RO		REVISED FOR FINAL ISSUE		11/2/2000 JMB	
		RB		REVISED PER CUSTOMER COMMENTS (10/06/2020)		10/27/2020 JMB	
P.O. BOX 40 PELHAM, ALABAMA 35124		 M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718			
SCALE				DRAWN BY JLS			
AS NOTED				DATE 09/09/2020			
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES				CHK'D BY JWIN			
				DATE 11/12/2020			
STEEL DETAILS		(CIR 16/ STR 4)		DRAWING NUMBER SX-8901-18A		RO	



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

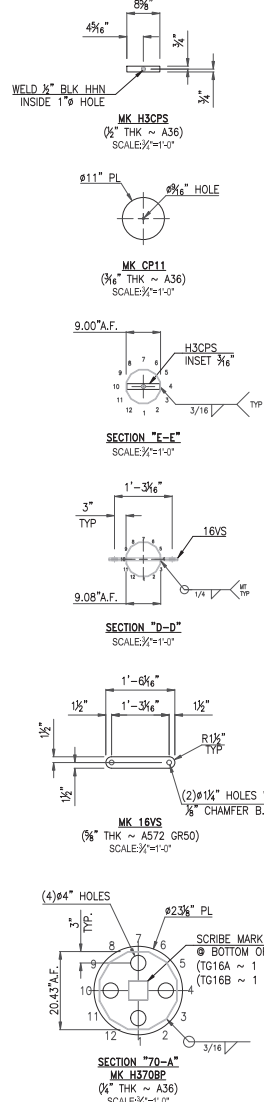
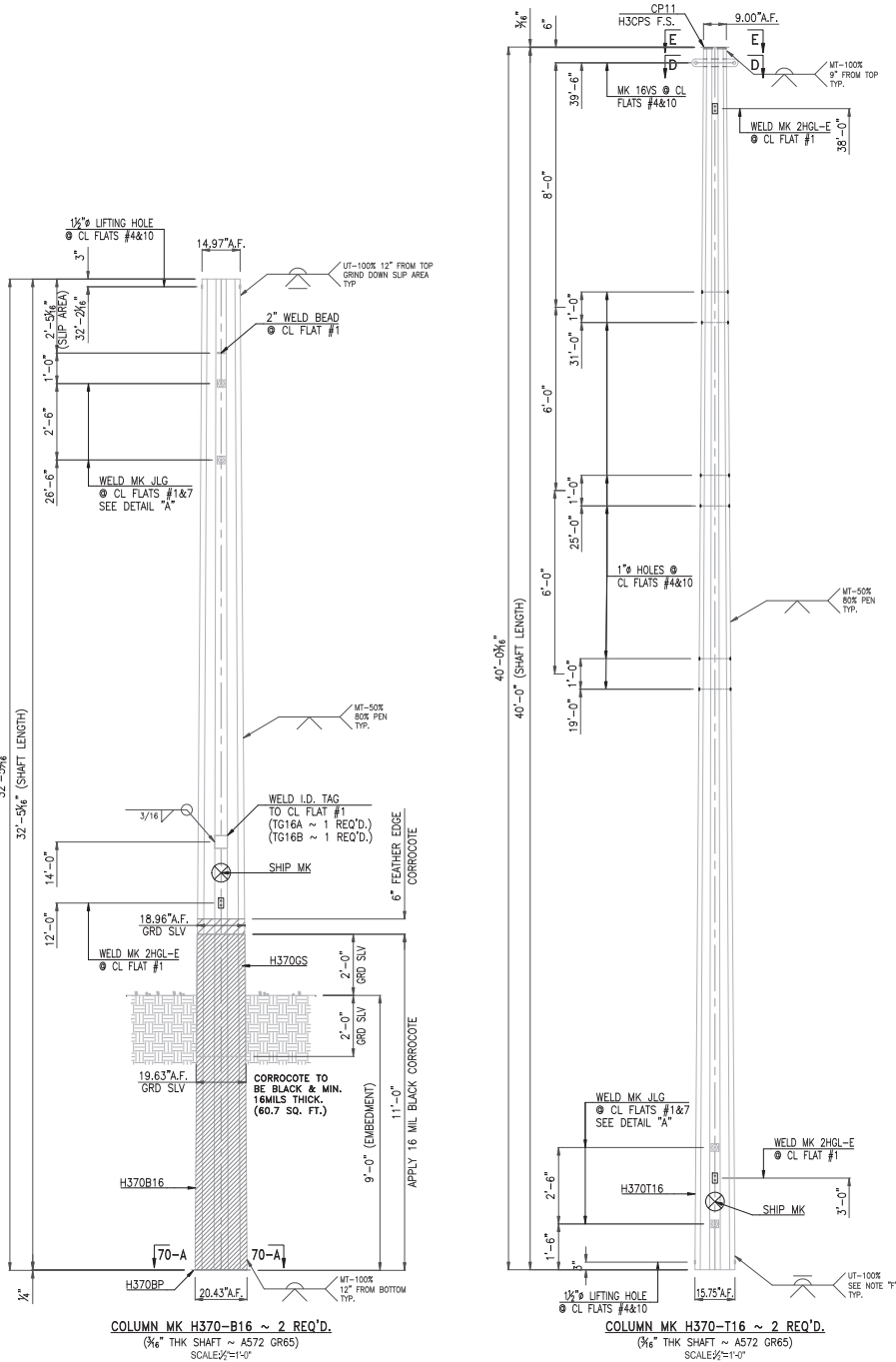
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/12/2020	JMB

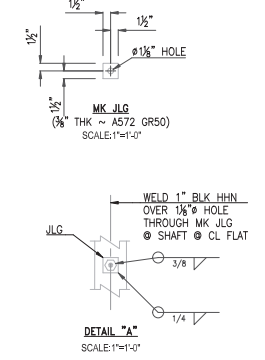
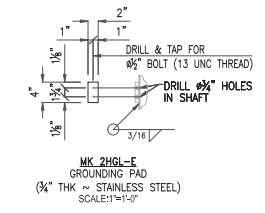
P.O. BOX 40 PELHAM, ALABAMA 35124				PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/09/2020		DRAWN BY: JLS	
AS NOTED		DATE: 09/09/2020		CHK'D BY: JWN	
GREENVILLE UTILITIES COMMISSION		DATE: 11/12/2020		DRAWING NUMBER	
GALVANIZED STEEL POLES		DATE: 11/12/2020		SX-8901-16SE	
STEEL ERECTION		(CIR 16/STR 5 & 6)		RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE AT THE USER'S SOLE RISK OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.



GREENVILLE UTILITIES CLASS S-042 70 FT CIR 16/STR 5 280 FT-KIPS M.D. HENRY OCT 2020

GREENVILLE UTILITIES CLASS S-042 70 FT CIR 16/STR 6 280 FT-KIPS M.D. HENRY OCT 2020



QA INSPECTION

Layout _____ INITIALS _____ DATE _____

Welding _____

Pre-Galvanizing _____

Post-Galvanizing _____

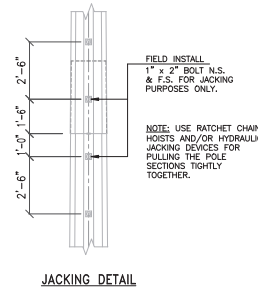
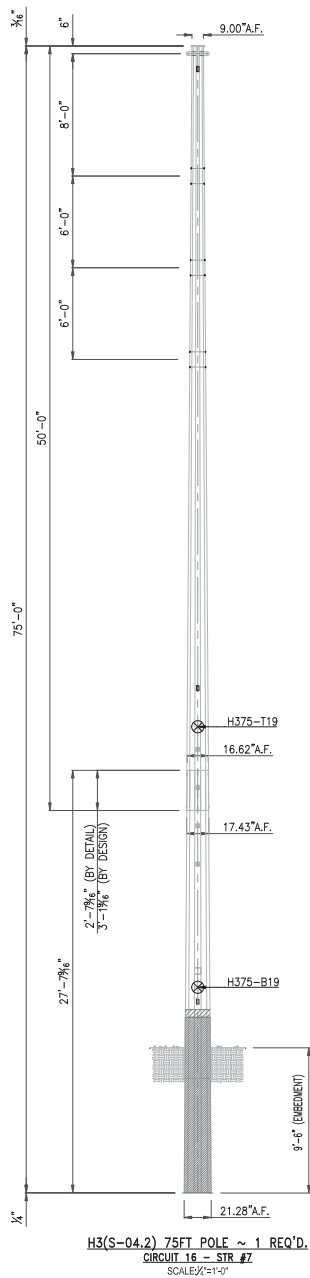
Assembly _____

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition).
3. Any additions, modifications, or corrections to structures furnished in accordance with this drawing without authorization of M. D. Henry Co., Inc. will relieve M. D. Henry Co., Inc. of responsibility for the design, performance, and/or cost of alterations.

MATERIAL LIST									
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
COLUMN MK H370-B16 2 REQ'D	H370B16	1	2	20.43 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	32	5 1/16	2329.85		
	H370BP	1	2	PL 1/4 X 23 1/8 (RND)(A36)	1	11 1/8	52.42		
	H370GS	1	2	18.63 DIA SHFT 12 FLATS-1875 THK (A36)	4	0	313.65		
	2HGL-E	1	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40		
	TG16	1	2	PL 1/4 X 5 (A36)	0	7	4.98		
	JLG	4	8	PL 3/8 X 3 (A572 GR50)	0	3	7.66		
	SHOP	4	8	1 BLK OVERSIZED HHHN	0	0	0.00		
				TOTAL BLACK WEIGHT			2711.94		
COLUMN MK H370-T16 2 REQ'D	H370T16	1	2	16.75 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	40	0	2000.58		
	H370PS	1	2	PL 1/2 X 1 1/2 (A36)	0	8 5/8	3.67		
	CP11	1	2	PL 3/16 X 11 (RND)(A36)	0	11	10.11		
	2HGL-E	2	4	PL 3/4 X 2 (STAINLESS STL)	0	4	6.81		
	JLG	4	8	PL 3/8 X 3 (A572 GR50)	0	3	7.66		
	16VS	1	2	PL 3/4 X 3 (A572 GR50)	1	6 1/16	23.08		
	SHOP	1	2	1/2 BLK OVERSIZED HHHN	0	0	0.00		
	SHOP	1	2	1/2 SSB W/LW	0	1 1/2	0.00		
	SHOP	4	8	1 BLK OVERSIZED HHHN	0	0	0.00		
	FIELD	4	8	1 HSBG	0	2	0.00		
				TOTAL BLACK WEIGHT			2051.88		

FINAL DRAWING
APPROVED FOR CONSTRUCTION

NOTES:			NO. REVISIONS DATE BY		
1. ALL HOLES 11/16" UNLESS NOTED					
2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.					
3. EDGE DISTANCE 1" UNLESS NOTED					
4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE					
5. EACH PIECE OF STEEL TO HAVE 178 MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS					
RO REVISOR FOR FINAL ISSUE			11/12/2020 JMB		
RB REVISOR PER CUSTOMER COMMENTS (10/06/2020)			10/12/2020 JMB		
P.O. BOX 40 PELHAM, ALABAMA 35124			PHONE (205)-663-8711 FAX (205)-663-8718		
SCALE			DRAWN BY JLS		
AS NOTED			DATE 09/09/2020		
GREENVILLE UTILITIES COMMISSION			CHK'D BY JWN		
GALVANIZED STEEL POLES			DATE 11/12/2020		
STEEL DETAILS			DRAWING NUMBER		
(CIR 16/STR 5 & 6)			SX-8901-16A		
			RO		



SLIP-FIT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

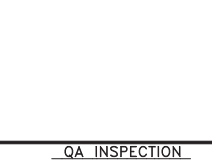
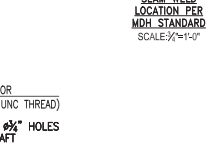
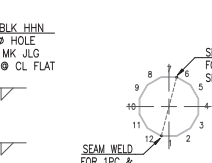
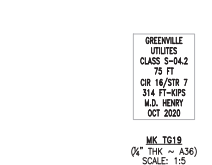
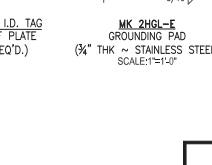
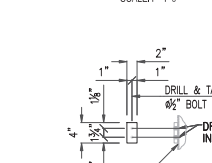
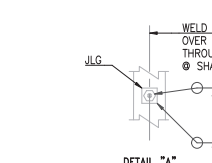
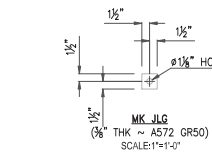
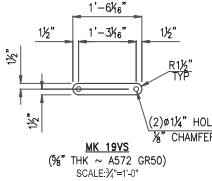
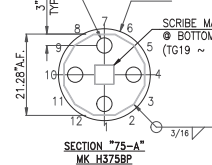
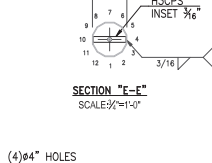
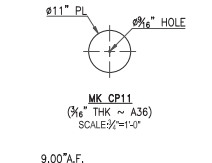
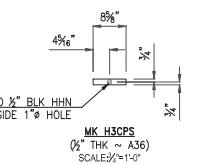
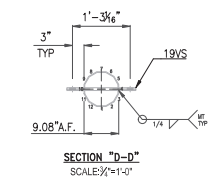
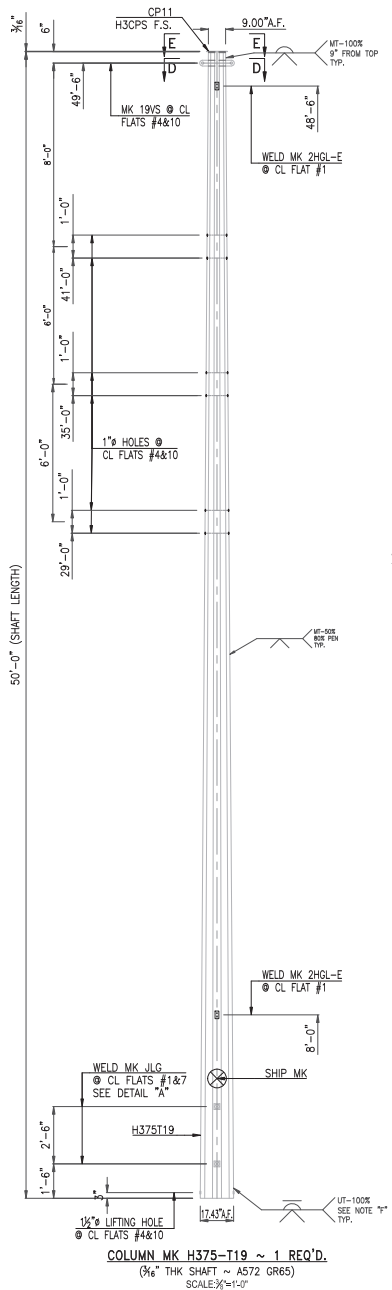
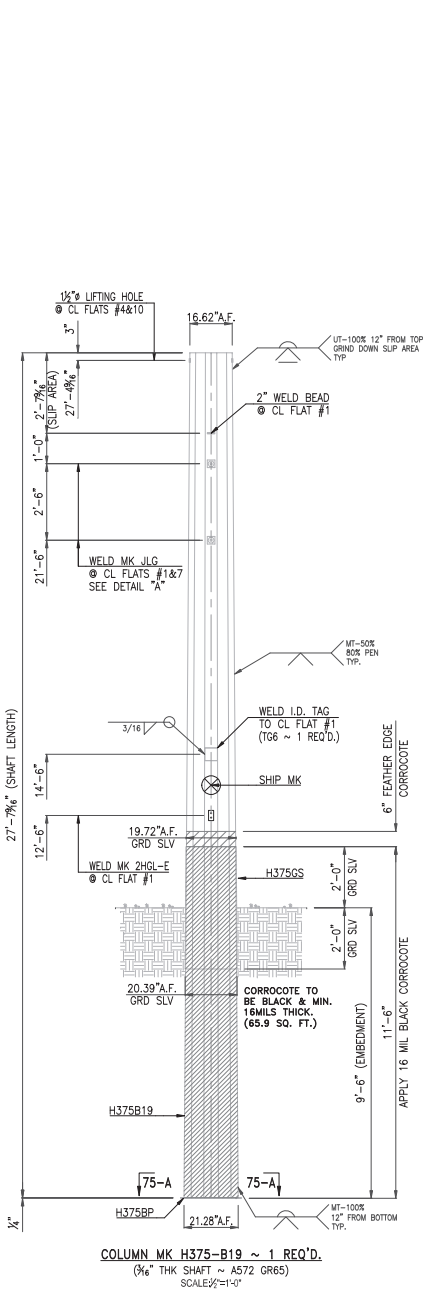
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/24/2020		DRAWN BY: JLS	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN	
GALVANIZED STEEL POLES		DATE: 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 16/STR 7)		SX-8901-19SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL RELIEVE M.D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MATERIAL LIST									
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK.	WT.	
COLUMN MK H375-B19 1 REQ'D	H375B19	1	1	21.28 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	27	7 9/16	1063.71		
	H375BP	1	1	PL 1/4 X 24 (RND)(A36)	2	0	28.51		
	H375GS	1	1	20.39 DIA SHFT 12 FLATS-1875 THK (A36)	0	4	163.07		
	2HGL-E	1	1	PL 3/4 X 2 (STAINLESS STL)	0	4	1.70		
	TG19	1	1	PL 1/4 X 5 (A36)	0	7	2.48		
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0	3	3.83		
	SHOP	4	4	1 BLK OVERSIZED HHN	0	0	0.00		
				TOTAL BLACK WEIGHT			1263.30		
COLUMN MK H375-T19 1 REQ'D	H375T19	1	1	17.43 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	50	0	1336.49		
	H3CPS	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83		
	CP11	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05		
	2HGL-E	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40		
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0	3	3.83		
	19VS	1	1	PL 3/4 X 3 (A572 GR50)	1	6 1/16	11.52		
	SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00		
	SHOP	4	4	1 BLK OVERSIZED HHN	0	0	0.00		
	SHOP	1	1	1/2 SSB W/LW	0	1 1/2	0.00		
	FIELD	4	4	1 HSGB	0	2	0.00		
				TOTAL BLACK WEIGHT			1362.12		

GREENVILLE UTILITIES CLASS 5-042 75 FT CIR 16/STR 7 314 FT-KIPS M.D. HENRY OCT 2020

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

MK T619 (1/4" THK ~ A36) SCALE: 1"=1'-0"

WELD NOTE:
F, THE FEMALE SECTION LONGITUDINAL SEAM WELDS IN THE SLIP AREA SHOULD BE COMPLETE-PENETRATION WELDS FOR AT LEAST A LENGTH EQUAL TO THE MAXIMUM SLIP DIMENSION. UT ALL SLIP FIT AREAS PRIOR TO FITTING ANY ADDITIONAL ITEMS TO THE FLATS ADJACENT TO THE SEAMS OF THE SHAFT.

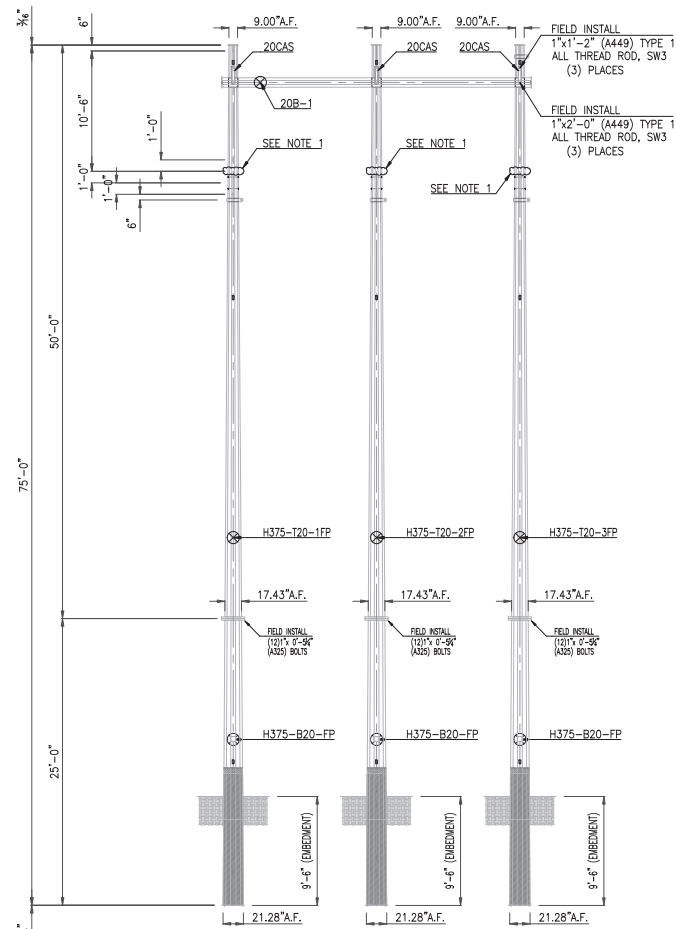
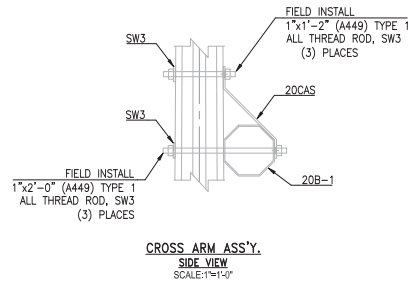
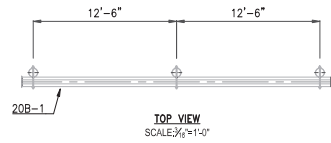
FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY

RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124	M.D. Henry COMPANY, INC.	PHONE (205)-663-8711 FAX (205)-663-8718
SCALE AS NOTED	GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES	DRAWN BY JLS DATE: 09/24/2020 CHK'D BY JWN DATE: 11/12/2020
STEEL DETAILS	(CIR 16/STR 7)	SH-8901-19A

QA INSPECTION		INITIALS	DATE
Layout			
Welding			
Pre-Galvanizing			
Post-Galvanizing			
Assembly			
NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP 2. All welds should comply with AWS D1.1 (Latest edition) 3. All welds should be A36, HOT DIP GALVANIZED 4. IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.			



H3(S-04.2) 75FT POLE ~ 1 REQ'D.
CIRCUIT 16 - STR. #8

NOTE 1. TRANSMISSION POLE EYE PLATE WILL BE FIELD DRILLED AT APPROPRIATE ANGLE FOR EACH CONDUCTOR AND STATIC.

SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

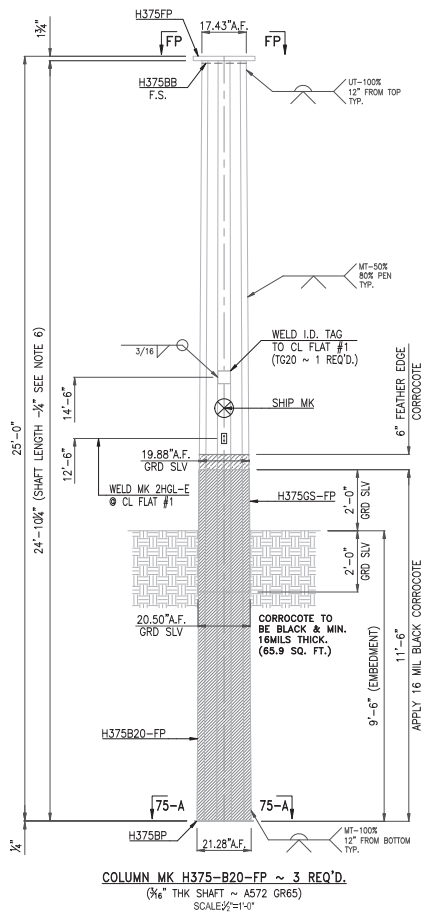
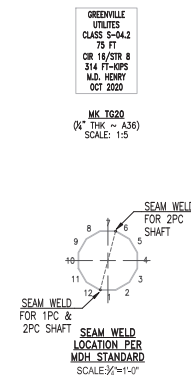
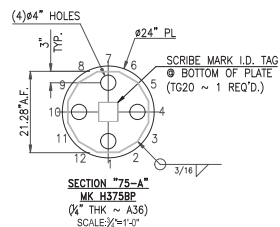
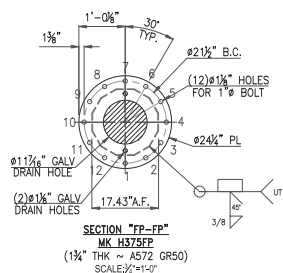
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE	AS NOTED	DATE: 09/24/2020		DRAWN BY: JLS	
GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN		DATE: 11/12/2020	
GALVANIZED STEEL POLES		DRAWING NUMBER		RO	
STEEL ERECTION		(CIR 16/STR 8)		SX-8901-20SE	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.




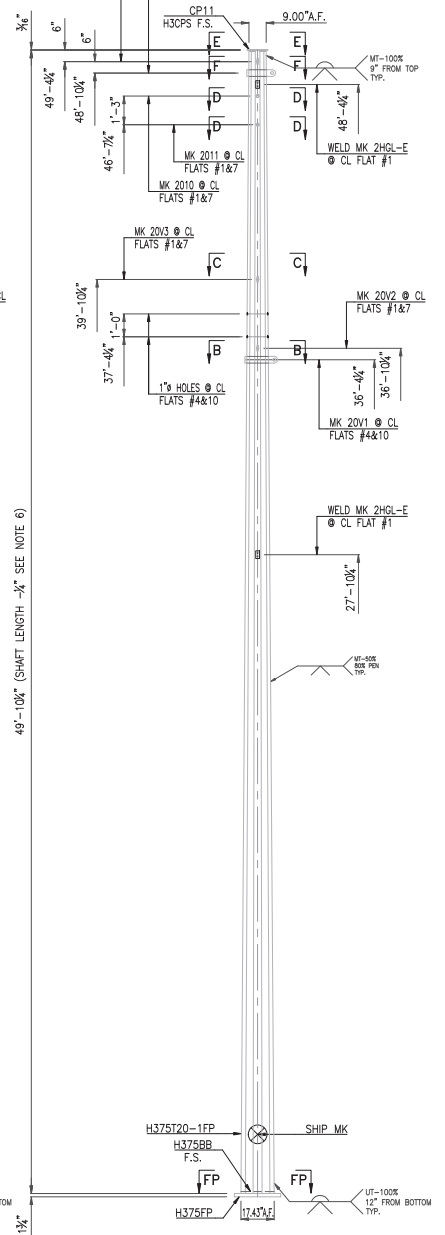
QA INSPECTION		INITIALS	DATE
Layout			
Welding			
Pre-Galvanizing			
Post-Galvanizing			
Assembly			

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6-01

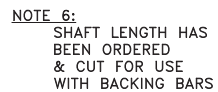
2. All welds should comply with AWS/D1.1. (latest edition)

ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY, JR. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERNATES.

NOTES:		NO.	REVISIONS	DATE	BY
1. ALL HOLES 11/16" UNLESS NOTED BOLTS 5/8" UNLESS NOTED					
2. ALL STEEL TO BE ASK, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED					
3. EDGE DISTANCE 1" UNLESS NOTED					
4. ALL STEEL TO BE STRAIGHT ABOUT CENTRELINE					
5. EACH FACE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS		RO	REVISED FOR FINAL ISSUE	11/12/2000	JME
		RB	REVISED PER CUSTOMER COMMENTS	10/06/2000	JME
P.O. BOX 40 PELHAM, ALABAMA 35124		 M.D. Henry COMPANY, INC.		PHONE (205)-663-6711 FAX (205)-663-6718	
SCALE				DRAWN BY JLS	
AS NOTED				DATE 09/24/2000	
GREENVILLE UTILITIES COMMISSION				CHK'D BY JWN	
GALVANIZED STEEL POLES				DATE 11/12/2000	
STEEL DETAILS		(CIR 16/STR 8)		DRAWING NUMBER SX-8901-20A	



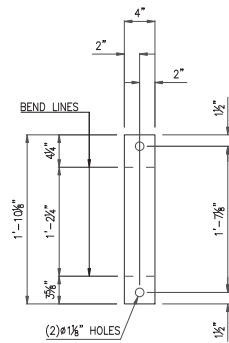
COLUMN MK H375-T20-3FP ~ 1 REQ'D.
(3/8" THK SHAFT ~ A572 GR65)
SCALE: 1/4"=1'-0"



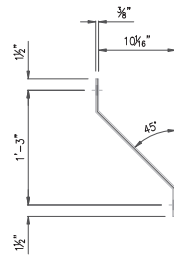
QA INSPECTION		INITIALS	DATE
Layout			
Welding			
Pre-Galvanizing			
Post-Galvanizing			
Assembly			

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QA-M-63
 2. All welds should comply with AWS D1.1 (Latest edition).
 ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.

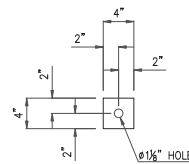
P.O. BOX 40 PELHAM, ALABAMA 35124		 M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE				DRAWN BY JLS	
AS NOTED				DATE 09/24/2020	
GREENVILLE UTILITIES COMMISSION				CHK'D BY JWIN	
GALVANIZED STEEL POLES				DATE 11/12/2020	
STEEL DETAILS		(CIR 16/STR 8)		DRAWING NUMBER SX-8901-20B	
				R0	



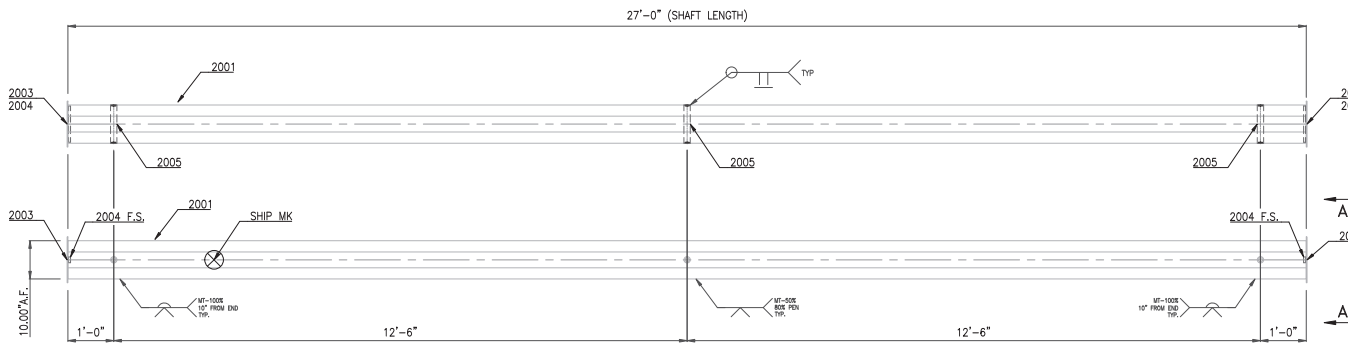
BLANK FOR MK 20CAS
(3/8" THK ~ A572 GR50)
SCALE: 1/2"=1'-0"



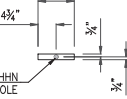
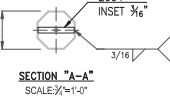
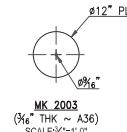
CROSS ARM STRAP MK 20CAS ~ 3 REQ'D.
(3/8" THK ~ A572 GR50)
SCALE: 1/2"=1'-0"



SQUARE WASHER MK SW3 ~ 6 REQ'D.
(3/8" THK ~ A36)
SCALE: 1/2"=1'-0"



BEAM MK 20B-1 ~ 1 REQ'D.
(3/8" THK SHAFT ~ A572 GR65)
SCALE: 3/4"=1'-0"



QA INSPECTION

INITIALS	DATE
Layout	
Welding	
Pre-Galvanizing	
Post-Galvanizing	
Assembly	

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition)
3. ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.

MATERIAL LIST

SHIP MK	SHOP MK	QUAN FOR ONE	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK. WT.
COLUMN MK H375-T20-3FP	H3752-IFP	1	1	1743 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	49	10	1332.04
	H3CPS	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83
	CP11	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05
	2HGL-F	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40
	2010	1	1	PIPE 1 1/4 SCH 40	0	9 3/16	1.74
	2011	1	1	PIPE 1 1/4 SCH 40	0	9 1/2	1.80
	20V5	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	9.60
	20V4	1	1	PL 3/4 X 3 (A572 GR50)	1	2 3/4	9.41
	20V3	1	1	PL 3/4 X 3 (A572 GR50)	1	7 11/16	12.56
	20V2	1	1	PL 3/4 X 3 (A572 GR50)	1	8 3/16	12.88
	20V1	1	1	PL 3/4 X 3 (A572 GR50)	1	4 7/8	10.77
	H375FP	1	1	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	2 1/4	178.21
MK SW3	H3758B	1	1	BAR 3/16 X 1 (A36)	4	5 5/8	2.85
	SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00
	SHOP	1	1	1/2 SSB W/LW	0	1 1/2	0.00
	FIELD	12	12	1 HSGB W/HHN HFW MFLN	0	5 1/4	0.00
				TOTAL BLACK WEIGHT			1582.14
MK SW3	SW3	1	6	PL 3/8 X 4 (A36)	0	4	10.21
				TOTAL BLACK WEIGHT			10.21

MATERIAL LIST

SHIP MK	SHOP MK	QUAN FOR ONE	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK. WT.
COLUMN MK H375-T20-1 REQ'D	2001	1	1	10 DIA SHFT 8 FLATS -25 THK (A572 GR65)	27	0	741.66
	2003	2	2	PL 3/16 X 12 (RND)(A36)	1	0	12.03
	2004	2	2	PL 1/2 X 1 1/2 (A36)	0	9 1/2	4.04
	2005	3	3	PIPE 1 1/4 SCH 40	0	10	5.69
	2010	3	3	1 (A449) ATHD ROD	2	0	0.00
	FIELD	6	6	1 HFW	0	0	0.00
	FIELD	6	6	1 HHN	0	0	0.00
				TOTAL BLACK WEIGHT			763.42
COLUMN MK H375-T20-3 REQ'D	20CAS	1	3	PL 3/8 X 4 (A572 GR50)	1	10 1/8	28.23
	FIELD	1	3	1 (A449) ATHD ROD	1	2	0.00
	FIELD	2	6	1 HHN	0	0	0.00
	FIELD	2	6	1 HFW	0	0	0.00
				TOTAL BLACK WEIGHT			28.23
COLUMN MK H375-T20-1 REQ'D	H3752-IFP	1	1	1743 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	24	10	2838.88
	H3758B	1	3	PL 1/4 X 24 (RND)(A36)	2	0	85.52
	H3758B-IFP	1	3	2050 DIA SHFT 12 FLATS-1875 THK (A36)	4	0	526.60
	2HGL-F	1	3	PL 3/4 X 2 (STAINLESS STL)	0	4	5.10
	TG20	1	3	PL 1/4 X 5 (A36)	0	7	7.44
	H375FP	1	3	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	2 1/4	534.63
	H3758B	1	3	BAR 3/16 X 1 (A36)	4	5 5/8	8.55
				TOTAL BLACK WEIGHT			4006.72
COLUMN MK H375-T20-1FP	H3752-IFP	1	1	1743 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	49	10	1332.04
	H3CPS	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	1.83
	CP11	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05
	2HGL-F	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	3.40
	2010	1	1	PIPE 1 1/4 SCH 40	0	9 3/16	1.74
	2011	1	1	PIPE 1 1/4 SCH 40	0	9 1/2	1.80
	20V5	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	9.60
	20V3	1	1	PL 3/4 X 3 (A572 GR50)	1	7 11/16	12.56
	20V2	1	1	PL 3/4 X 3 (A572 GR50)	1	8 3/16	12.88
	20V1	1	1	PL 3/4 X 3 (A572 GR50)	1	4 7/8	10.77
	H375FP	1	1	PL 1 3/4 X 24 1/4 (RND)(A572 GR50)	2	2 1/4	178.21
	H3758B	1	1	BAR 3/16 X 1 (A36)	4	5 5/8	2.85
COLUMN MK H375-T20-2FP	SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00
	SHOP	1	1	1/2 SSB W/LW	0	1 1/2	0.00
	FIELD	12	12	1 HSGB W/HHN HFW MFLN	0	5 1/4	0.00
				TOTAL BLACK WEIGHT			1563.13

FINAL DRAWING APPROVED FOR CONSTRUCTION

NOTES:

- ALL HOLES 11/16" UNLESS NOTED
- ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
- EDGE DISTANCE 1" UNLESS NOTED
- ALL STEEL TO BE STRAIGHT
- EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

NO.	REVISIONS	DATE	BY

RO REVISOR FOR FINAL ISSUE 11/12/2020 JMB
RB REVISED PER CUSTOMER COMMENTS 10/06/2020 10/07/2020 JMB

P.O. BOX 40
PELHAM, ALABAMA 35124

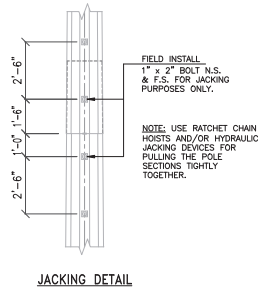
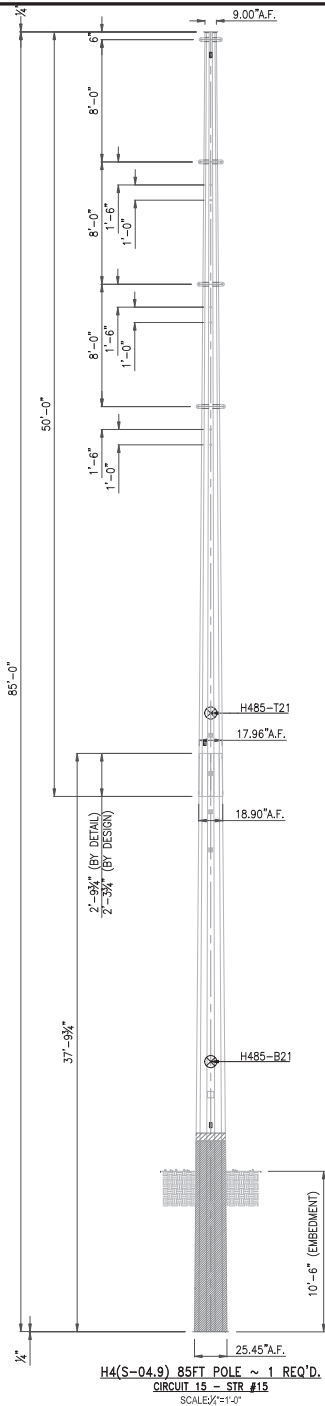
M.D. Henry
COMPANY, INC.

PHONE (205)-663-8711
FAX (205)-663-8718

SCALE
AS NOTED

DRAWN BY JLS
DATE 09/24/2020
CHK'D BY JWN
DATE 11/12/2020

STEEL DETAILS (CIR 16/STR 8) SX-8901-20C RO



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

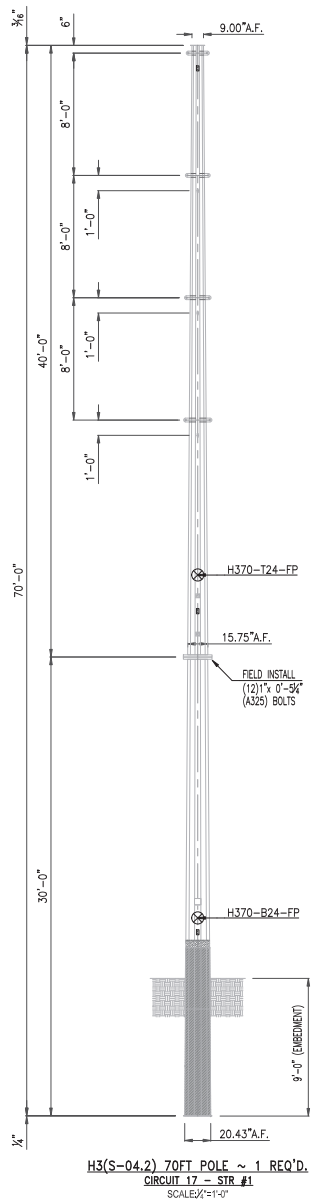
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/07/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124				PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 9/28/20		DRAWN BY JLS	
AS NOTED		DATE 9/28/20		CHK'D BY JWN	
GREENVILLE UTILITIES COMMISSION		DATE 11/12/2020		DRAWING NUMBER	
GALVANIZED STEEL POLES		DATE 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 16/STR 9)		SX-8901-21SE RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

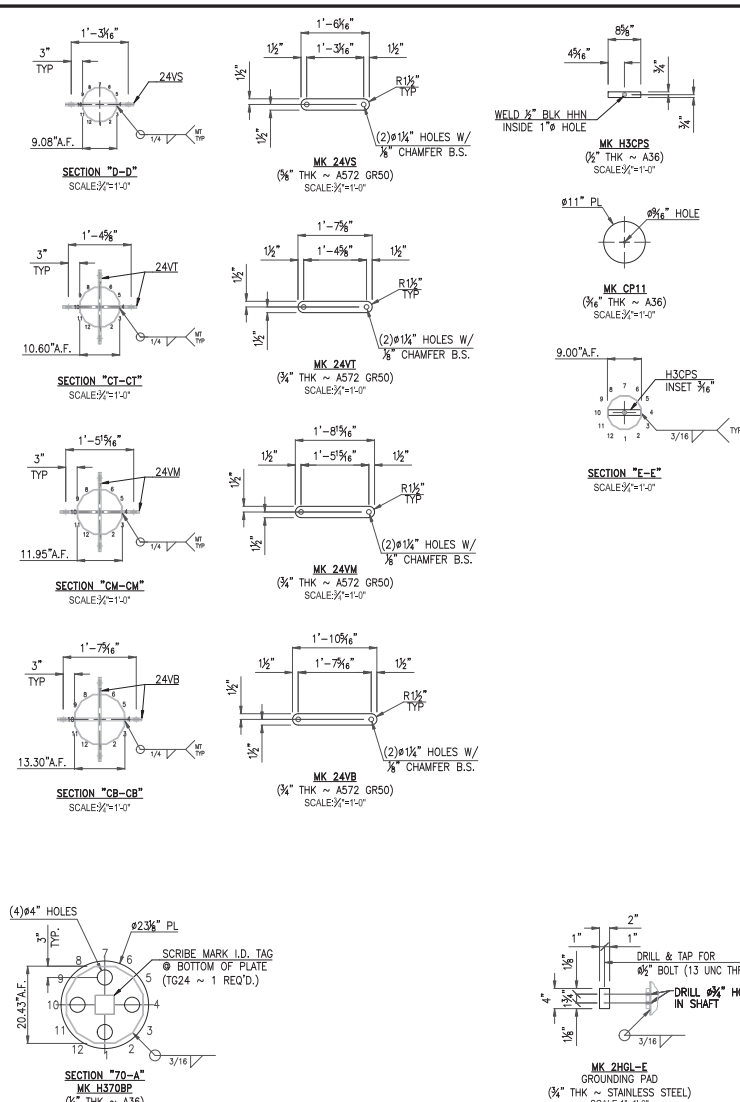
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/21/2020		DRAWN BY: JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN	
GALVANIZED STEEL POLES		DATE: 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 17/STR 1)		SX-8901-24SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



QA INSPECTION		INITIALS	DATE
Layout			
Welding			
Pre-Galvanizing			
Post-Galvanizing			
Assembly			

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6X
 2. All welds should comply with AWS D1.1 (latest edition)
 ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED
 IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D.
 HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY
 FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.

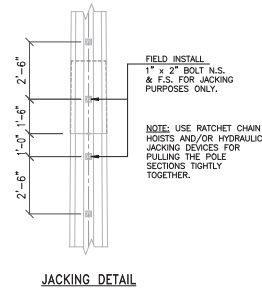
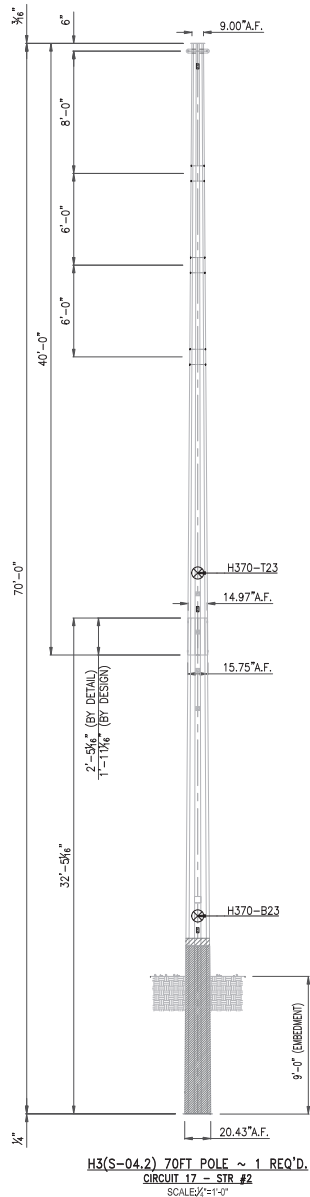
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <h2 style="margin: 0;">FINAL DRAWING</h2> <h3 style="margin: 0;">APPROVED FOR CONSTRUCTION</h3> </div> <div style="width: 60%; text-align: right;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> DATE BY </div> </div> </div>			
NOTES: 1. ALL HOLES 1/8" UNLESS NOTED BOLTS 5/8" UNLESS NOTED 2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED 3. EDGE DISTANCE 1" UNLESS NOTED 4. ALL STEEL TO BE STRAIGHT ABOUT CENTRELNE 5. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">NO.</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">REVISIONS</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">DATE BY</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>
	RO	REVISED FOR FINAL ISSUE	11/20/20 JMB
	RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/4/2020 JMB

P.O. BOX 40
PELHAM, ALABAMA 35124

M.D. Henry
COMPANY, INC.

PHONE (205)---663-6711
FAX (205)---663-6718

SCALE	DRAWN BY JMB
AS NOTED	DATE 09/21/2020
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES	CWD'D BY JMB DATE 11/12/2020
STEEL DETAILS	DRAWING NUMBER SX-8901-04
(CIR 17 STR 1)	RO



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumbed prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

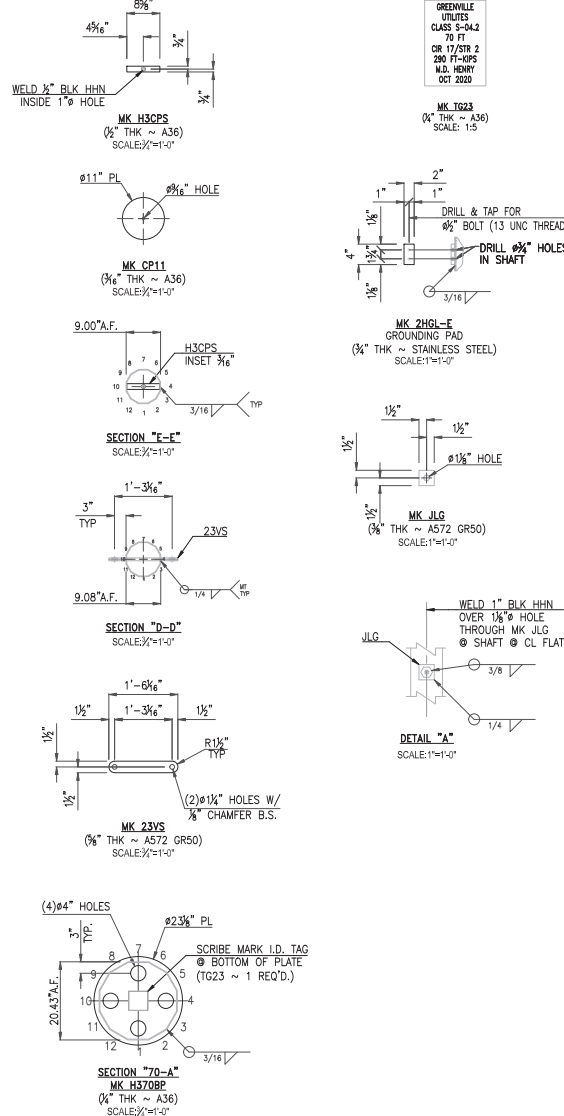
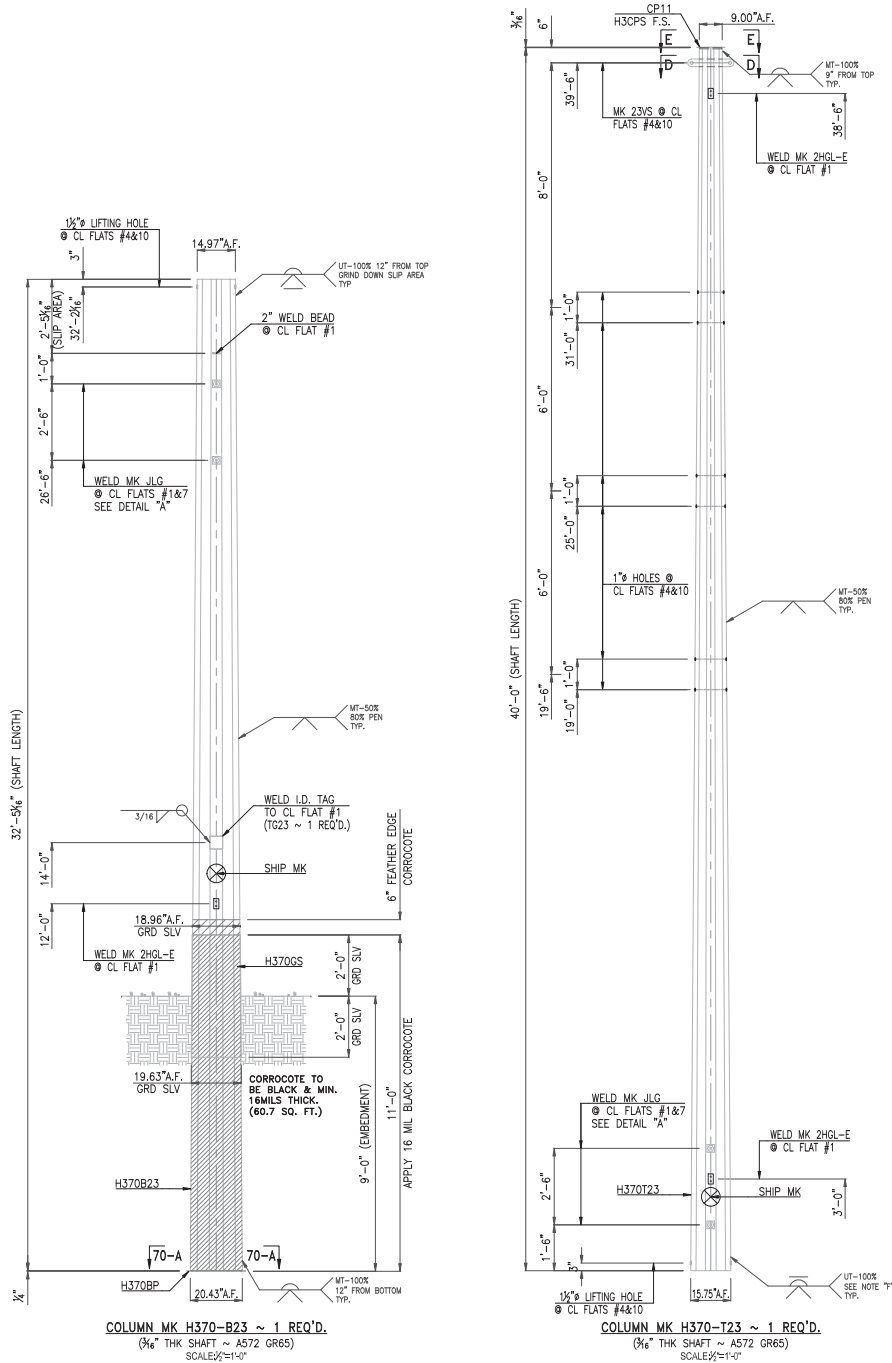
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124				PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/22/2020		DRAWN BY JMB	
AS NOTED		DATE 09/22/2020		CHK'D BY JWN	
GREENVILLE UTILITIES COMMISSION		DATE 11/12/2020		DRAWING NUMBER	
GALVANIZED STEEL POLES		DATE 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 17/STR 2)		SX-8901-23SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL BE THE SOLE RESPONSIBILITY OF THE USER FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MATERIAL LIST					
SHIP MK	SHOP MK	QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT. IN. TOTAL BLK. WT.
COLUMN MK H370-B23 1 REQ'D	H370B23	1	1	20.43 DIA SHAFT 12 FLATS-1875 THK (A572 GR65)	32 5 1/16 1164.92
	H370BP	1	1	PL 1/4 X 23 1/8 (RND)(A36)	1 11 1/8 26.21
	H370GS	1	1	18.63 DIA SHAFT 12 FLATS-1875 THK (A36)	4 0 156.83
	2HGL-E	1	1	PL 3/4 X 2 (STAINLESS STL)	0 4 1.70
	TG23	1	1	PL 1/4 X 5 (A36)	0 7 2.48
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0 3 3.83
	SHOP	4	4	1 BLK OVERSIZED HHN	0 0 0.00
				TOTAL BLACK WEIGHT	1355.92
COLUMN MK H370-T23 1 REQ'D	H370T23	1	1	16.75 DIA SHAFT 12 FLATS-1875 THK (A572 GR65)	40 0 1000.29
	H370PS	1	1	PL 1/2 X 1 1/2 (A36)	0 8 5/8 1.83
	CP11	1	1	PL 3/16 X 11 (RND)(A36)	0 11 5.05
	2HGL-E	2	2	PL 3/4 X 2 (STAINLESS STL)	0 4 3.40
	JLG	4	4	PL 3/8 X 3 (A572 GR50)	0 3 3.83
	23VS	1	1	PL 5/8 X 3 (A572 GR50)	1 6 1/16 9.60
	SHOP	1	1	1/2 BLK OVERSIZED HHN	0 0 0.00
	SHOP	1	1	1/2 SSB W/LW	0 1 1/2 0.00
	SHOP	4	4	1 BLK OVERSIZED HHN	0 0 0.00
	FIELD	4	4	1 HSGB	0 2 0.00
				TOTAL BLACK WEIGHT	1024.00

QA INSPECTION

Layout _____ INITIALS DATE _____

Welding _____

Pre-Galvanizing _____

Post-Galvanizing _____

Assembly _____

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition).
3. In accordance with this drawing without authorization of M. D. Henry Co., Inc. will relieve M. D. Henry Co., Inc. of responsibility for the design, performance, and/or cost of alterations.

FINAL DRAWING
APPROVED FOR CONSTRUCTION

NOTES:

- ALL HOLES 11/16" UNLESS NOTED
- ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.
- EDGE DISTANCE 1" UNLESS NOTED
- ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE
- EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS

NO. REVISIONS DATE BY

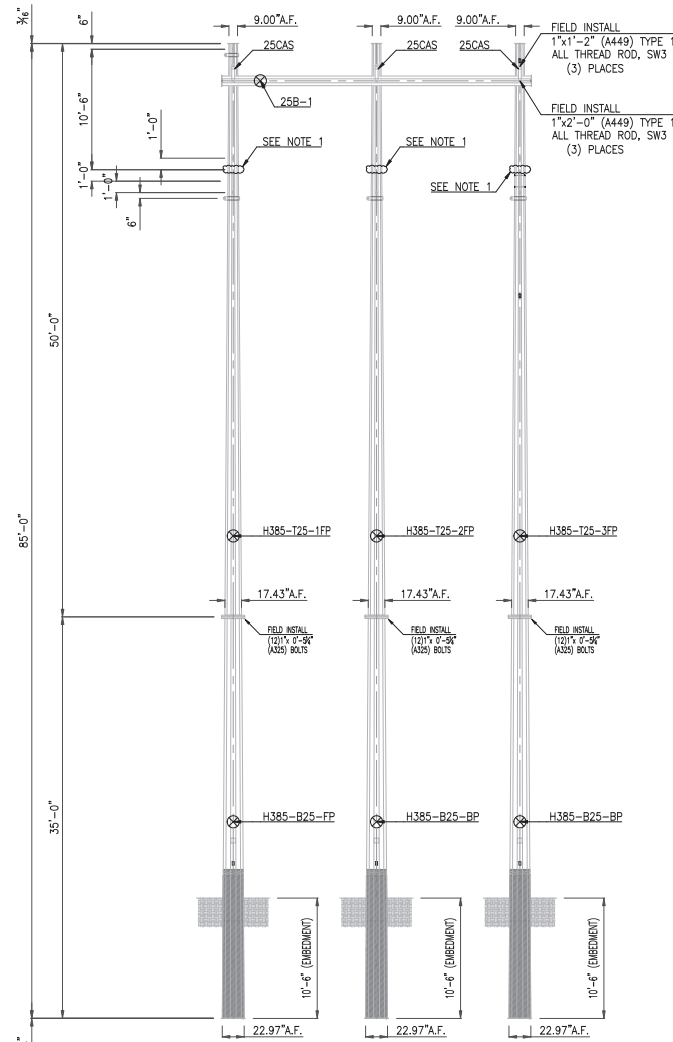
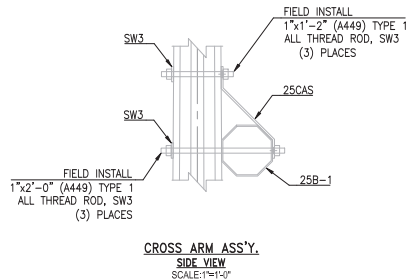
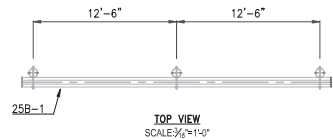
NO.	REVISIONS	DATE	BY
1	REVISED FOR FINAL ISSUE	11/12/2020	JMB
2	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

SCALE
AS NOTED

DRAWN BY JMB
DATE 09/22/2020
CHK'D BY JWN
DATE 11/12/2020

STEEL DETAILS (CIR 17/STR 2) **SH-8901-23A** **RO**

M.D. Henry COMPANY, INC.
P.O. BOX 40
PELHAM, ALABAMA 35124
PHONE (205)-663-8711
FAX (205)-663-8718



H3(S-04.2) 85FT POLE ~ 1 REQ'D.
CIRCUIT 17 - STR #3
SCALE: 3/8"=1'-0"

NOTE 1. TRANSMISSION POLE EYE PLATE WILL BE FIELD DRILLED AT APPROPRIATE ANGLE FOR EACH CONDUCTOR AND STATIC.

SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

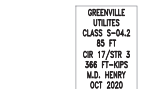
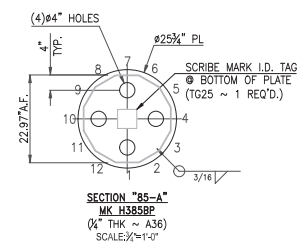
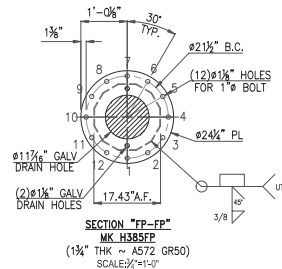
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

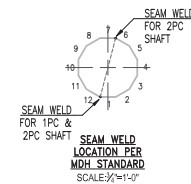
NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE	AS NOTED	DRAWN BY JMB		DATE 09/22/2020	
GREENVILLE UTILITIES COMMISSION		CHK'D BY JWN		DATE 11/12/2020	
GALVANIZED STEEL POLES		DRAWING NUMBER		SX-8901-25SE	
STEEL ERECTION		(CIR 17/STR 3)		RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THE DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE RESPONSIBILITY OF THE USER. M.D. HENRY CO., INC. IS NOT RESPONSIBLE FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



MK TG25
(1/4" THK ~ A36)
SCALE: 1:5



QA INSPECTION

	Initial	Accept
Layout		
Welding		
Pre-Galvanizing		
Post-Galvanizing		
Assembly		

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6
 2. All welds should comply with AWS D1.1 (Latest edition)

ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND COST OF ALTERATIONS.

NOTES:

- NOTES:
1. ALL HOLES 1/16" UNLESS NOTED
BOLTS 5/8" UNLESS NOTED
 2. ALL STEEL TO BE A36, HOT DIP GALVANIZED
AFTER FABRICATION, UNLESS NOTED.
 3. EDGE DISTANCE 1" UNLESS NOTED
 4. ALL STEEL TO BE STRAIGHT
ABOUT CENTERLINE
 5. EACH PIECE OF STEEL TO HAVE
IT'S MARK STAMPED INTO METAL
WITH 3/8" HIGH CHARACTERS

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JME
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JME

P.O. BOX 40
PELHAM, ALABAMA 35124



M.D. Henry
COMPANY, INC.

PHONE (205)-663-6711
FAX (205)-663-6718

SCALE

EXP	AS NOTED
5	GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES

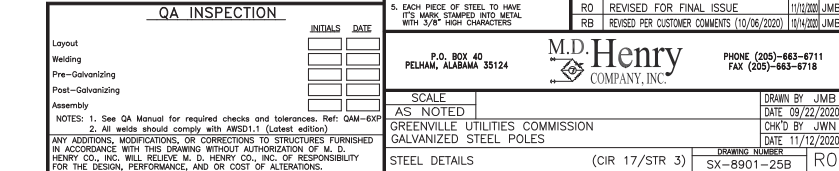
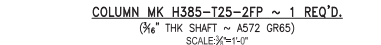
DRAWN BY	JMB
----------	-----

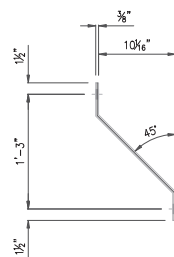
DATE	09/22/2020
CHK'D BY	JWN
DATE	11/12/2020

STEEL DETAILS

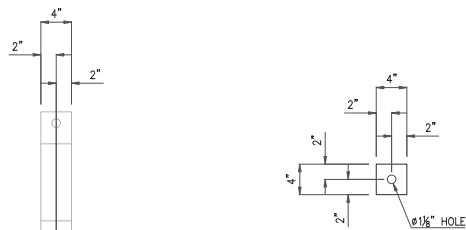
(CIR 17/STR 3)

DRAWING NUMBER
SY-8901-25A

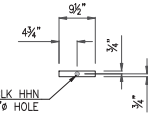
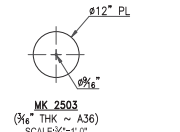
$1\frac{3}{4}$ "



CROSS ARM STRAP MK 25CAS ~ 3 REQ'D.
(3/8" THK ~ A572 GR50)
SCALE: 1 1/2" = 1'-0"



SQUARE WASHER MK SW3 ~ 6 REQ'D.
($\frac{3}{8}$ " THK ~ A36)
SCALE: $1\frac{1}{2}$ "=1'-0"



10"

MK 2505
PIPE 1 1/4" SCH 40
SCALE: 3/4" = 1'-0"

BEAM MK 25B-1 ~ 1 REQ'D.
($\frac{1}{4}$ " THK SHAFT ~ A572 GR65)
SCALE: $\frac{3}{4}$ " = 1'-0"

MATERIAL LIST							
SHIP	SHOP	QUAN	TOT'L	DESCRIPTION	FT.	IN.	TOTAL
	MK	ONE	QUAN				BLK. WT.
COLUMN WK 1358-725-3P I RECD	W0872-SP	1	1	17.61 DR SHWT 12 FATS-1875 THK (AS72 GR50)	49	10	1332.00
	H3CPS1	1	1	PL 1/2 x 1 1/2 (A36)	0	8 5/8	1.83
	CP11	1	1	PL 3/16 x 11 (RND)(A36)	0	11	5.05
	2H0-C	2	2	PL 3/4 x 2 (STAINLESS STL)	0	4	3.40
	2510	1	1	PIPE 1 1/4 SCH 40	0	9 3/16	1.74
	2511	1	1	PIPE 1 1/4 SCH 40	0	9 1/2	1.80
	25V5	1	1	PL 3/4 x 3 (A572 GR50)	1	7 11/16	12.56
	25V3	1	1	PL 3/4 x 3 (A572 GR50)	1	8 3/16	12.86
	28V1	1	1	PL 3/4 x 3 (A572 GR50)	1	4 7/8	10.77
	H385FP	1	1	PL 1 3/4 x 24 1/2 (RND)(AS72 GR50)	2	0 1/2	182.85
	H385SB	1	1	BAR 3/16 x 1 (A36)	4	5 5/8	2.85
	SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00
SHOP	1	1	1/2 SSB W/LW	0	1 1/2	0.00	
FIELD	12	12	1 HCSB W/HHN HFV MFLN	0	5 1/4	0.00	
TOTAL BLACK WEIGHT							1567.88
COLUMN WK 1358-725-3FP I RECD	W0872-SP	1	1	17.61 DR SHWT 12 FATS-1875 THK (AS72 GR50)	49	10	1332.00
	H3CPS1	1	1	PL 1/2 x 1 1/2 (A36)	0	8 5/8	1.83
	CP11	1	1	PL 3/16 x 11 (RND)(A36)	0	11	5.05
	2H0-C	2	2	PL 3/4 x 2 (STAINLESS STL)	0	4	3.40
	2510	1	1	PIPE 1 1/4 SCH 40	0	9 3/16	1.74
	2511	1	1	PIPE 1 1/4 SCH 40	0	9 1/2	1.80
	25V5	1	1	PL 5/8 x 3 (A572 GR50)	1	6 11/16	12.56
	25V3	1	1	PL 3/4 x 3 (A572 GR50)	1	7 11/16	12.86
	28V2	1	1	PL 3/4 x 3 (A572 GR50)	1	8 3/16	12.86
	25V1	1	1	PL 3/4 x 3 (A572 GR50)	1	4 7/8	10.77
	H385FP	1	1	PL 1 3/4 x 24 1/2 (RND)(AS72 GR50)	2	0 1/2	182.85
	H385SB	1	1	BAR 3/16 x 1 (A36)	4	5 5/8	2.85
SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00	
SHOP	1	1	1/2 SSB W/LW	0	1 1/2	0.00	
FIELD	12	12	1 HCSB W/HHN HFV MFLN	0	5 1/4	0.00	
TOTAL BLACK WEIGHT							1577.48

MATERIAL LIST								
SHIP MK	SHOP MK	QUAN FOR ONE	TOT'L QUAN	DESCRIPTION	LENGTH		TOTAL BLK. WT.	
					FT.	IN.		
BEAM MK 25B-1 1 RECD		2501	1	1	10 DIA SHFT 8 FLATS - 25 THK (A572 GR65)	27	0	741.66
		2503	2	2	PL 3/16 X 12 (RND)(A36)	1	0	12.03
		2504	2	2	PL 1/2 X 1 1/2 (A36)	0	9 1/2	4.04
		2505	3	3	PIPE 1 1/4 SCH 40	0	10	5.69
		FIELD	3	3	1 (A449) ATHD ROD	2	0	0.00
		FIELD	6	6	1 HFW	0	0	0.00
		FIELD	6	6	1 HHN	0	0	0.00
					TOTAL BLACK WEIGHT			763.42
MK 25C-AS 3 RECD		25C-AS	1	3	PL 3/8 X 4 (A572 GR50)	1	10 1/8	28.23
		FIELD	1	3	1 (A449) ATHD ROD	1	2	0.00
		FIELD	2	6	1 HHN	0	0	0.00
		FIELD	2	6	1 HFW	0	0	0.00
					TOTAL BLACK WEIGHT			28.23
MK 25-SW3 6 RECD								
		SW3	1	6	PL 3/8 X 4 (A36)	0	3	7.66
					TOTAL BLACK WEIGHT			7.66
COLUMN MK H35B-225-PP 3 RECD		H35B22-PP	1	3	22.87 DIA SHFT 12 FLATS- 1875 THK (A572 GR65)	34	10	4204.41
		H35B5B	1	3	PL 1/4 X 25 3/4 (RND)(A36)	2	1 3/4	100.06
		TC25	1	3	22.00 DIA SHFT 12 FLATS- 1875 THK (A36)	4	0	526.60
		2HG- E	2	6	PL 3/4 X 2 (STAINLESS STL)	0	4	10.21
		H35B5P	1	3	PL 1/4 X 5 (A36)	0	7	7.44
		H35B5P	1	3	PL 3/4 X 24 1/2 (RND)(A572 GR50)	2	0 1/2	701.83
		H35B5B	1	3	BAR 3/16 X 1 (A36)	4	5 5/8	8.55
					TOTAL BLACK WEIGHT			5559.10
COLUMN MK H35B-125-11PP 1 RECD		H35B22-11P	1	1	17.43 DIA SHFT 12 FLATS- 1875 THK (A572 GR65)	49	10	1332.04
		H35CP3	1	1	PL 1/2 X 1 1/2 (A36)	0	8 5/8	18.3
		CP11	1	1	PL 3/16 X 11 (RND)(A36)	0	11	5.05
		2HG- E	2	2	PL 3/4 X 2 (STAINLESS STL)	0	4	1.40
		2510	1	1	PIPE 1 1/4 SCH 40	0	9 3/16	1.74
		2511	1	1	PIPE 1 1/4 SCH 40	0	9 1/2	1.80
		2505	1	1	PL 5/8 X 3 (A572 GR50)	1	6 1/16	11.52
		2504	1	1	PL 3/4 X 3 (A572 GR50)	1	2 3/4	9.41
		25V3	1	1	PL 3/4 X 3 (A572 GR50)	1	11 1/16	12.56
		25V2	1	1	PL 3/4 X 3 (A572 GR50)	1	8 3/16	12.88
		25V1	1	1	PL 3/4 X 3 (A572 GR50)	1	4 7/8	10.77
		H35B5P	1	1	PL 1/4 X 24 1/2 (RND)(A572 GR50)	2	0 1/2	297.87
		H35B5B	1	1	BAR 3/16 X 1 (A36)	4	5 5/8	2.85
		SHOP	1	1	1/2 BLK OVERSIZED HHN	0	0	0.00
		SHOP	1	1	1/2 SSB W/LW	0	1 1/2	0.00
	FIELD	12	12	1 H50B W/HHN HFW MELN	0	5 1/4	0.00	
				TOTAL BLACK WEIGHT			1703.72	

FINAL DRAWING
APPROVED FOR CONSTRUCTION

NOTES

- NOTES:
1. ALL HOLES 11/16" UNLESS NOTED
BOLTS 5/8" UNLESS NOTED
 2. ALL STEEL TO BE A36, HOT DIP GALVANIZED
AFTER FABRICATION, UNLESS NOTED.
 3. EDGE DISTANCE 1" UNLESS NOTED
 4. ALL STEEL TO BE STRAIGHT
ABOUT CENTERLINE
 5. EACH PIECE OF STEEL TO HAVE
IT'S MARK, STAMPED INTO METAL
WITH 3/8" HIGH CHARACTERS

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/13/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

P.O. BOX 40
PELHAM, ALABAMA 35124



M.D. Henry
COMPANY, INC.

PHONE (205)-663-6711
FAX (205)-663-6718

SCALE
AS NOTED

COMMISSION	DRAWN BY JMB
CS	DATE 09/22/2020
	CHK'D BY JWN
	DATE 11/12/2020

STEEL DETAILS

(CIR 17/STR 3)

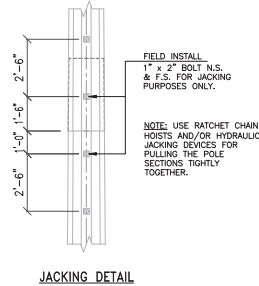
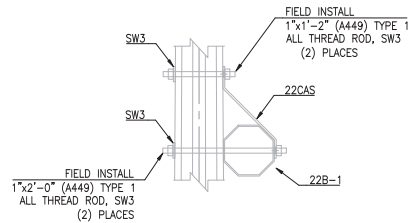
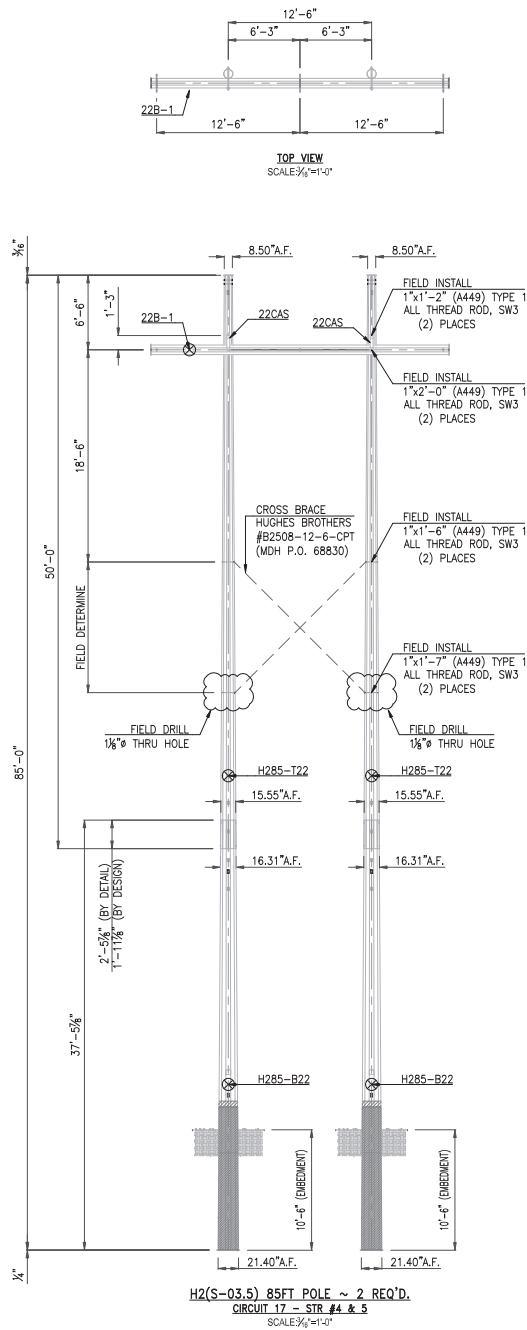
R0

QA INSPECTION

- Layout
- Welding
- Pre-Galvanizing
- Post-Galvanizing
- Assembly

NOTES: 1. See Q&M Manual for required checks and tolerances. Ref: QAM-6X
2. All welds should comply with AWS D1.1 (Latest edition)

ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



SLIP-FIT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

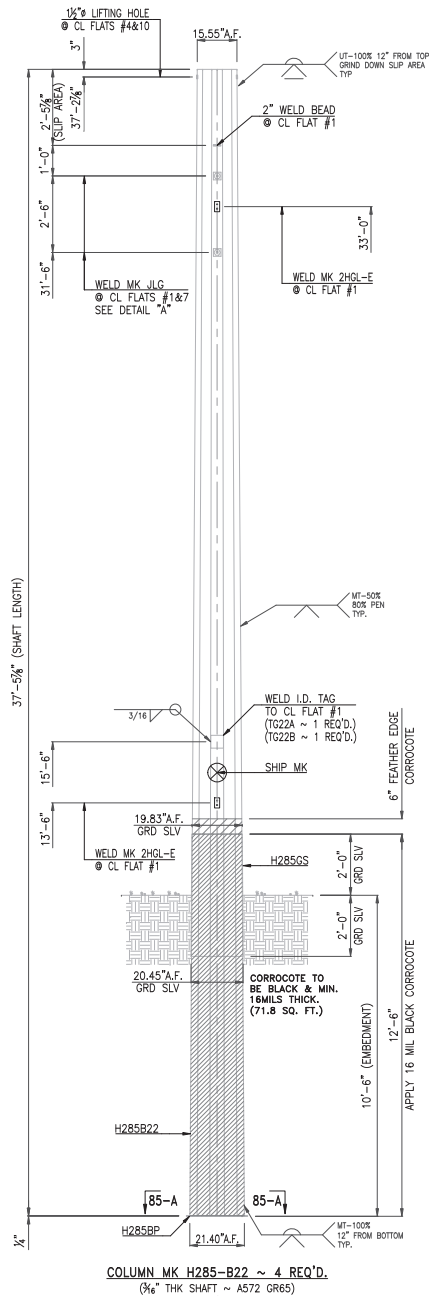
FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

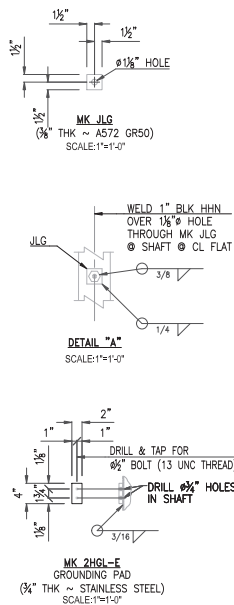
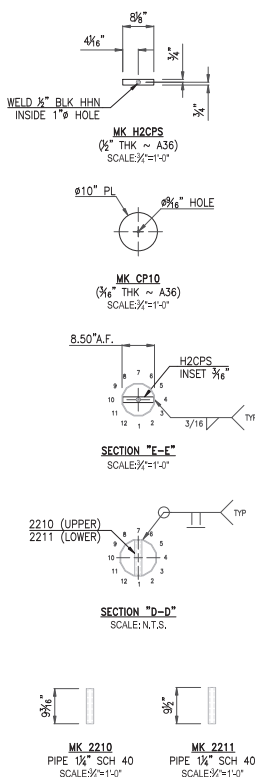
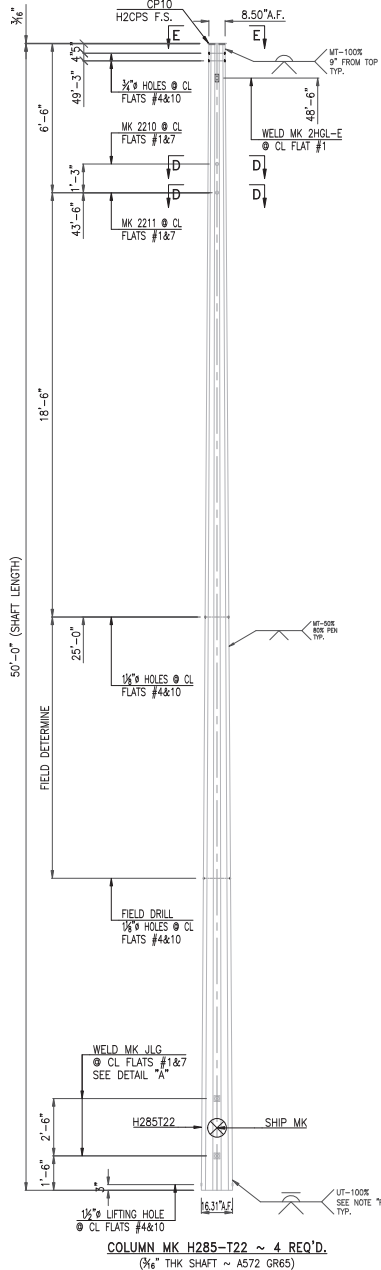
P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE: 09/22/2020		DRAWN BY: JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY: JWN	
GALVANIZED STEEL POLES		DATE: 11/12/2020		DRAWING NUMBER	
STEEL ERECTION		(CIR 17/STR 4 & 5)		SX-8901-22SE	
				RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL BE THE RESPONSIBILITY OF THE USER. M.D. HENRY CO., INC. WILL NOT BE RESPONSIBLE FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

37'-5 1/2" (SHAFT LENGTH)

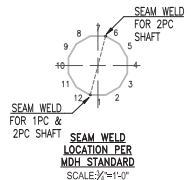


50'-0" (SHAFT LENGTH)



GREENVILLE UTILITIES CLASS 5-03.5 85 FT CIR 17/STR 4 317 FT-WPS M.D. HENRY OCT 2020	GREENVILLE UTILITIES CLASS 5-03.5 85 FT CIR 17/STR 5 317 FT-WPS M.D. HENRY OCT 2020
--	--

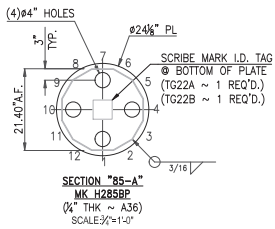
MK TG22A (3/4" THK ~ A36) SCALE: 1:5	MK TG22B (3/4" THK ~ A36) SCALE: 1:5
--	--

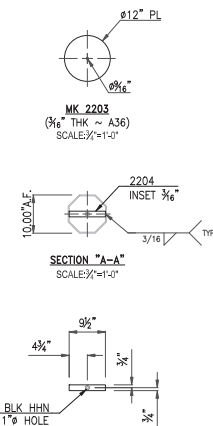


FINAL DRAWING APPROVED FOR CONSTRUCTION

NOTES:			
1. ALL HOLES 11/16" UNLESS NOTED BOLTS 5/8" UNLESS NOTED	NO.	REVISIONS	DATE BY
2. ALL STEEL TO BE A36, HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED.			
3. EDGE DISTANCE 1" UNLESS NOTED			
4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE			
5. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS			
	RO	REVISED FOR FINAL ISSUE	11/12/2020 JMB
	RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020 JMB
<div> <div> P.O. BOX 40 PELHAM, ALABAMA 35124 </div> <div> M.D. Henry COMPANY, INC. </div> <div> PHONE (205)-663-8711 FAX (205)-663-8718 </div> </div>			
<div> SCALE AS NOTED </div> <div> GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES </div> <div> STEEL DETAILS </div>			
<div> DRAWN BY JMB DATE 09/22/2020 CHK'D BY JWIN DATE 11/12/2020 </div>			
<div> DRAWING NUMBER SX-8901-22A </div>			
<div> CIR 17/STR 4 & 5 </div>			
<div> RO </div>			

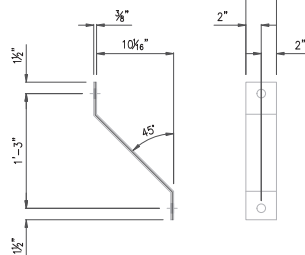
QA INSPECTION		
	INITIALS	DATE
Layout		
Welding		
Pre-Galvanizing		
Post-Galvanizing		
Assembly		
NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP 2. All welds should comply with AWS D1.1 (Latest edition). ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND/OR COST OF ALTERATIONS.		






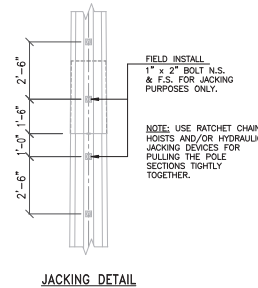
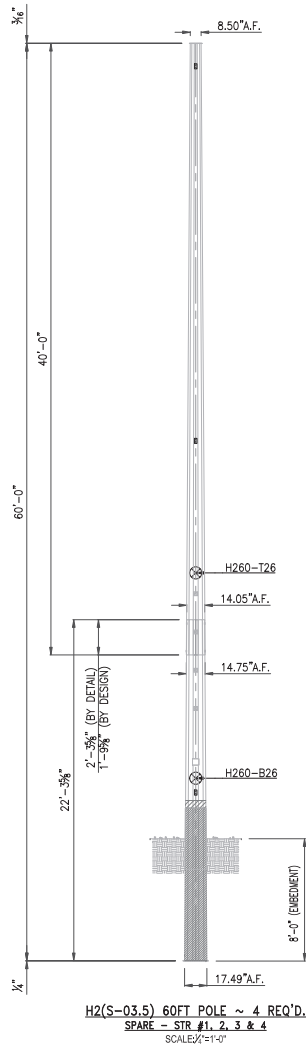
Technical drawing of a rectangular plate with the following specifications:

- Overall dimensions: 1'-7" (width) by 1'-4" (height).
- Inner rectangular cutout dimensions: 1'-4" (width) by 1'-2" (height).
- Plate thickness: 1/2" (indicated on the left side).
- Inner cutout thickness: 1/2" (indicated on the left side).
- Corner radius: R1/2" TYP (Typical).
- Holes: (2) 1/4" HOLES W/ 1/8" CHAMFER B.S. (Two 1/4 inch holes with 1/8 inch chamfer on both sides).
- Material: MK 2202.
- Thickness: 3/4" THK ~ A572 GR50.
- Scale: SCALE=3/4"=1'-0".



SQUARE WASHER MK SW3 ~ 16 REQ'D.
($\frac{3}{8}$ " THK ~ A36)
SCALE: $1\frac{1}{2}$ "=1'-0"

FINAL DRAWING				
APPROVED FOR CONSTRUCTION				
NOTES: 1. ALL HOLES 1 1/16" UNLESS NOTED BOLTS 5/8" UNLESS NOTED 2. ALL STEEL TO BE A36 HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED. 3. EDGE DISTANCE 1" UNLESS NOTED 4. ALL STEEL TO BE STRAIGHT ABOUT CENTERLINE 5. EACH PIECE OF STEEL TO HAVE ITS NAME STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS	NO.	REVISIONS	DATE BY	
	RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
	RB	REVISED PER CUSTOMER COMMENTS	10/06/2020	10/12/2020 JMB
<div>D.D. Henry COMPANY, INC.</div>		PHONE (205)–663–8711 FAX (205)–663–8718		
P.O. BOX 40 PELHAM, ALABAMA 35124				
SCALE		DRAIN BY JMB		
AS NOTED		DATE 09/22/2020		
GRANVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES		CH'D BY JWN DATE 11/12/2020		
STEEL DETAILS		DRAWING NUMBER:		
(CIR 17/STR 4 & 5)		SX-8901-22B		
		RO		



SLIP-FIT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

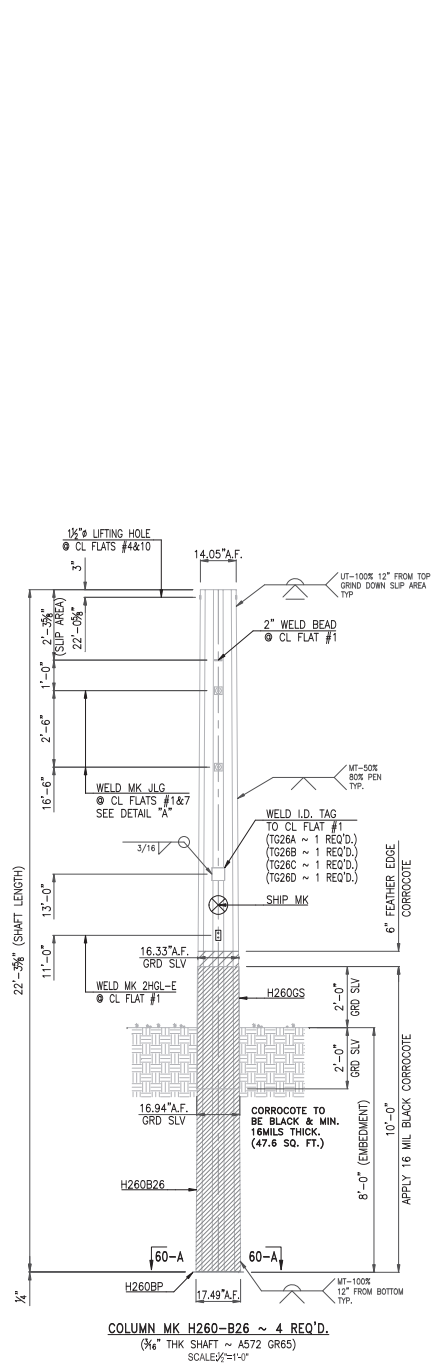
Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

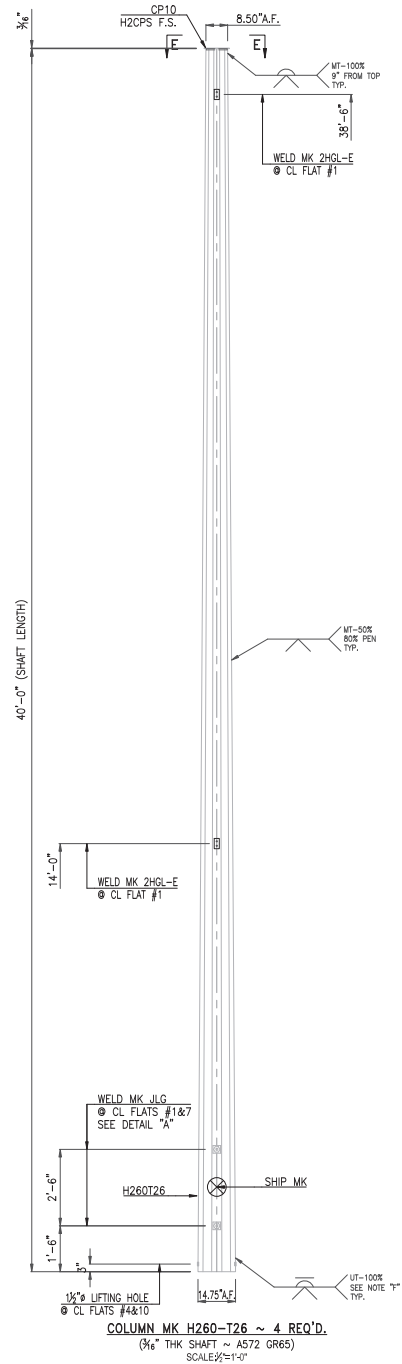
NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124				PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/25/2020		DRAWN BY JMB	
AS NOTED		CHK'D BY JWN		DATE 11/12/2020	
GREENVILLE UTILITIES COMMISSION GALVANIZED STEEL POLES					
STEEL ERECTION		(SPARE/STR 1, 2, 3 & 4)		DRAWING NUMBER SX-8901-26SE	
				RO	

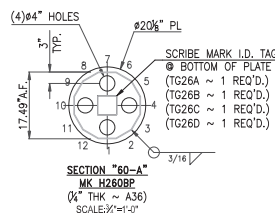
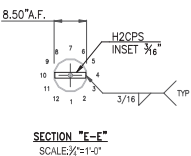
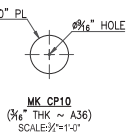
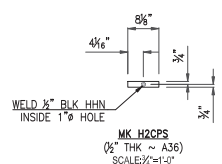
ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL RELIEVE M.D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.



COLUMN MK H260-B26 ~ 4 REQ'D.
(3/4\"/>

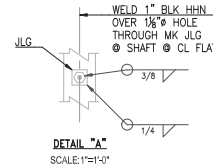
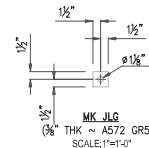
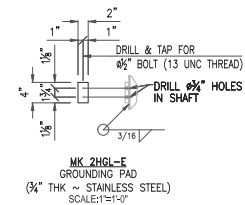


COLUMN MK H260-T26 ~ 4 REQ'D.
(3/4\"/>



GREENVILLE UTILITIES CLASS S-03.5 60 FT SPARE/STR 1 M.D. HENRY OCT 2020	GREENVILLE UTILITIES CLASS S-03.5 60 FT SPARE/STR 2 M.D. HENRY OCT 2020
MK T268A (3/4\"/>	MK T268B (3/4\"/>

GREENVILLE UTILITIES CLASS S-03.5 60 FT SPARE/STR 3 M.D. HENRY OCT 2020	GREENVILLE UTILITIES CLASS S-03.5 60 FT SPARE/STR 4 M.D. HENRY OCT 2020
MK T268C (3/4\"/>	MK T268D (3/4\"/>



SHIP MK	SHOP MK	QUAN	TOT'L ONE QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK. WT.
COLUMN MK H260-B26 4 REQ'D	H260B26	1	4	17.49 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	22	3 5/8	2852.10
	H260BP	1	4	PL 1/4 X 20 1/8 (RND)(A36)	1	8 1/8	75.95
	H260GS	1	4	16.94 DIA SHFT 12 FLATS-1875 THK (A36)	4	0	539.92
	ZHGL-E	1	4	PL 3/4 X 2 (STAINLESS STL)	0	4	6.81
	TG26	1	4	PL 1/4 X 5 (A36)	0	7	9.92
	JLG	4	16	PL 3/8 X 3 (A572 GR50)	0	3	15.31
	SHOP	4	16	1 BLK OVERSIZED HHN	0	0	0.00
				TOTAL BLACK WEIGHT			3500.01
COLUMN MK H260-T26 4 REQ'D	H260T26	1	4	14.75 DIA SHFT 12 FLATS-1875 THK (A572 GR65)	40	0	3754.62
	H2CPS	1	4	PL 1/2 X 1 1/2 (A36)	0	8 1/8	6.91
	CP10	1	4	PL 3/16 X 10 (RND)(A36)	0	10	16.70
	ZHGL-E	2	8	PL 3/4 X 2 (STAINLESS STL)	0	4	13.61
	JLG	4	16	PL 3/8 X 3 (A572 GR50)	0	3	15.31
	SHOP	1	4	1/2 BLK OVERSIZED HHN	0	0	0.00
	SHOP	1	4	1/2 SSB W/L/W	0	1/2	0.00
	SHOP	4	16	1 BLK OVERSIZED HHN	0	0	0.00
	FIELD	4	16	1 HSGR	0	2	0.00
				TOTAL BLACK WEIGHT			3807.15

NOTES:

- ALL HOLES 11/16\"/>

QA INSPECTION

Layout: ☐ INITIALS: ☐ DATE: ☐

Welding: ☐ INITIALS: ☐ DATE: ☐

Pre-Galvanizing: ☐ INITIALS: ☐ DATE: ☐

Post-Galvanizing: ☐ INITIALS: ☐ DATE: ☐

Assembly: ☐ INITIALS: ☐ DATE: ☐

NOTES: 1. See QA Manual for required checks and tolerances. Ref: QAM-6XP
2. All welds should comply with AWS D1.1 (Latest edition)

ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D. HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

REVISIONS

NO.	REVISIONS	DATE	BY

COMPANY INFORMATION

P.O. BOX 40
PELHAM, ALABAMA 35124

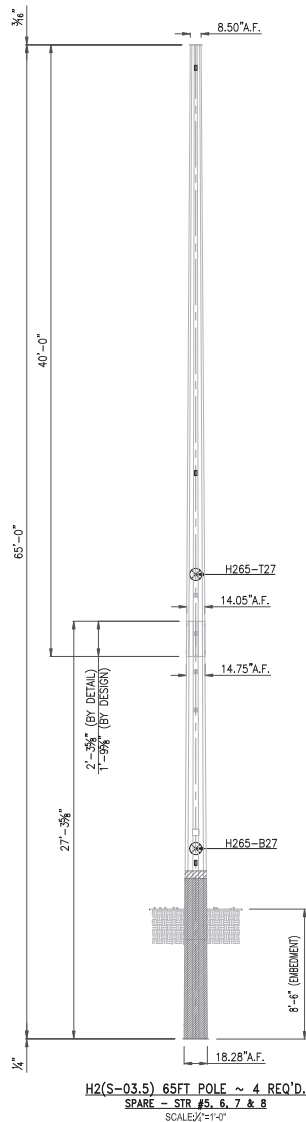
M.D. Henry COMPANY, INC.

PHONE (205)-663-8711
FAX (205)-663-8718

SCALE: AS NOTED

DRAWN BY: JMB
DATE: 09/25/2020
CHK'D BY: JWN
DATE: 11/12/2020

STEEL DETAILS (SPARE/STR 1, 2, 3 & 4) SX-8901-26A RO



SLIP-JT POLE ASSEMBLY AND ERECTION PROCEDURE

1. Procedure

1.1 Assembly

MD Henry recommends that the assembly of the poles be performed on the ground and the poles are raised to position in one piece.

If necessary, the poles may be assembled in the air by section. This is not recommended if there is an alternate method available.

A 2-inch horizontal weld bead is positioned on the flats of the lower male shaft for indicating the proper overlap distance during assembly. Refer to MDH Erection Drawings for minimum design overlap.

Assembly nuts or holes have been provided during fabrication, four nuts above and four nuts below each splice. These attachment points are 180 degrees apart and allow a 1-inch or 1-1/2-inch high-strength bolt to be used for the attachment of the jacking device.

Depending on the section sizes and the availability of equipment, there are several methods that can be used for jacking the sections together. Hydraulic or mechanical (chain hoists, turnbuckles) jacking devices are both acceptable.

Whichever type of jacking device is used, the pole sections should be blocked up level plumb prior to jacking. The sections should be manually worked up and down to help "walk" the pole sections together. In general, the pole sections should be overlapped as far as possible prior to the jacking operation.

NOTE: DO NOT USE GREASE OR OIL TO LUBRICATE THE POLE SECTIONS AS THIS RESULTS IN DISCOLORATION, WHICH IS DIFFICULT TO REMOVE.

The applied jacking force shall be sufficient to seat the upper female shaft down to a point between the indicated design and detailed overlap points. The applied jacking force shall not exceed 25 kips.

Caution should always be used when jacking pole sections together since the required jacking forces are of large magnitude.

1.2 Inspection

If upon completion of the assembly procedure, the minimum overlap cannot be obtained, or if there exist visible air gaps (in excess of 3/16-inch on opposite flats), M.D. Henry Company should be contacted prior to further erection of the pole.

Under no circumstances should structures be loaded without specified slip joint engagement unless written authorization from M.D. Henry Company has been received.

1.3 Erection

With the pole on the ground, the arms, pole steps, and other miscellaneous pieces should be installed, making the pole ready to climb when it is erected. Once the pole is up, and inspection is complete, the steps are removed coming down the pole. It may be necessary to leave off climbing devices in the area where they would interfere with the lifting straps.

The assembled pole may be picked up from a single point with a nylon or padded cable choker and swung into position. The balance point must be field determined as it varies dependent upon the number of arms or other appurtenance installed prior to erection. Experienced crane operators will find no problem going from pole to pole and determining the proper lifting points.

When setting the poles, MD Henry recommends splices below the lifting point be tethered together as a safety precaution against pulling apart during erection.

After erecting, proper plumbing of the poles can be accomplished by adjusting the anchor bolt nuts underneath the base plate. In the case of direct embedded poles, plumbing should be accomplished prior to back-filling around the bottom sections.

Contractor and field personnel are responsible to meeting contractor and utility safety programs as applied by qualified and properly trained personnel.

FINAL DRAWING APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY
RO	REVISED FOR FINAL ISSUE	11/12/2020	JMB
RB	REVISED PER CUSTOMER COMMENTS (10/06/2020)	10/14/2020	JMB

P.O. BOX 40 PELHAM, ALABAMA 35124		M.D. Henry COMPANY, INC.		PHONE (205)-663-8711 FAX (205)-663-8718	
SCALE		DATE 09/28/2020		DRAWN BY JMB	
AS NOTED		GREENVILLE UTILITIES COMMISSION		CHK'D BY JWIN	
GALVANIZED STEEL POLES		DATE 11/12/2020		DRAWING NUMBER	
STEEL ERECTION (SPARE/STR 5, 6, 7 & 8)		SX-8901-27SE		RO	

ANY ADDITIONAL MODIFICATIONS OR CORRECTIONS TO STRUCTURES FURNISHED IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M.D. HENRY CO., INC. WILL RELIEVE M.D. HENRY CO., INC. OF RESPONSIBILITY FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATIONS.

