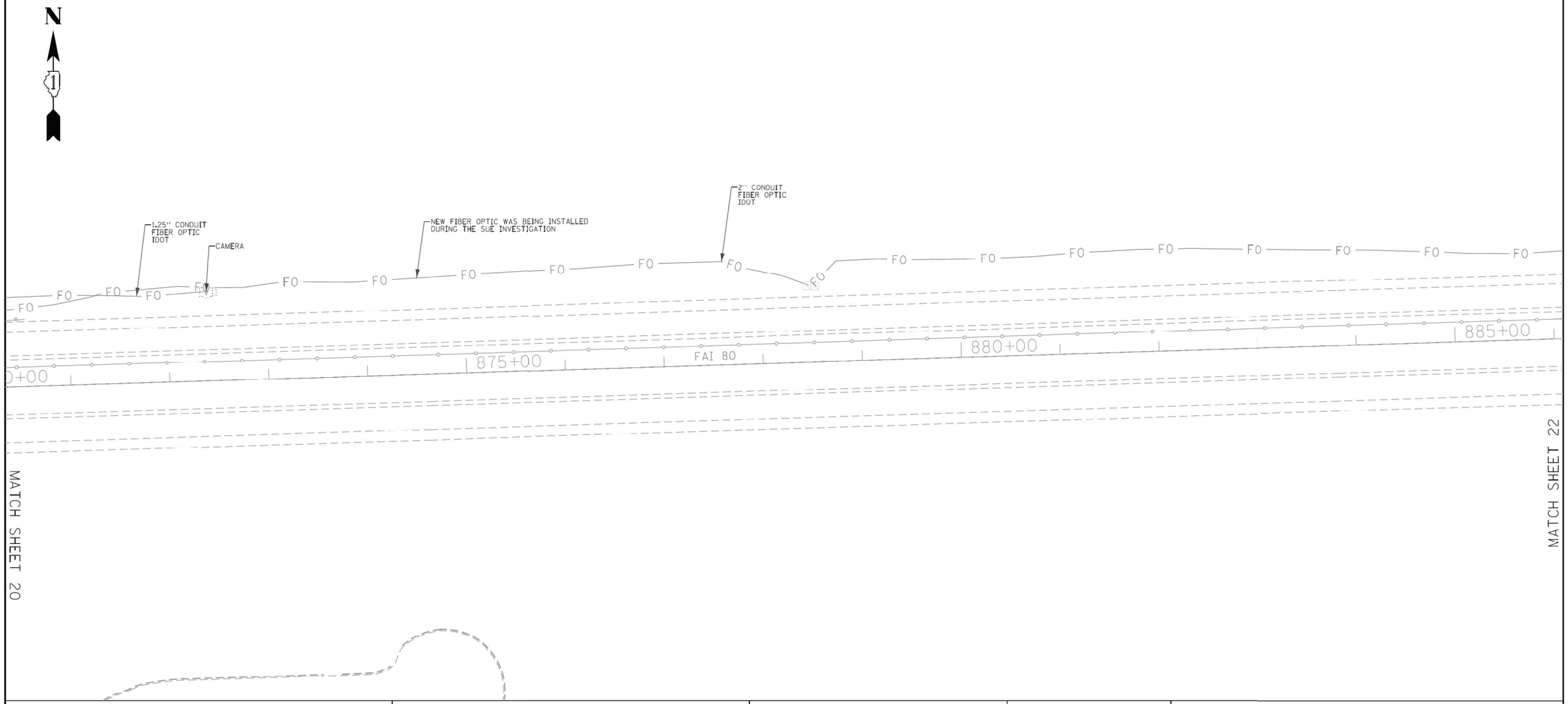

ASCE STANDARDS OF DEPICTION OF SUBSURFACE UTILITIES

QUALITY LEVEL A (QLA)
PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) USING MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO MINIMIZE POTENTIAL FOR UTILITY DAMAGE, AND SUBSEQUENT MEASUREMENT OF THE SUBSURFACE UTILITIES WITH OTHER UTILITY ATTRIBUTES SUCH AS TYPE, SIZE & MATERIAL OF UTILITY.

QUALITY LEVEL B (QLB)
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QUALITY LEVEL C (QLC)
INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

QUALITY LEVEL D (QLD)
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

GENERAL NOTES:

WGI INC. HAS EXERCISED ITS BEST PROFESSIONAL EXPERTISE AND GEOPHYSICAL PROSPECTING TECHNIQUES TO DEVELOP THIS MAPPING OF SUBSURFACE UTILITIES WITHIN THE PROJECT LIMITS.

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FIELD LOCATED UTILITIES MEET THE FEDERAL HIGHWAY ADMINISTRATION DEFINITION FOR "QUALITY LEVEL B" (QLB) STANDARDS.

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REVISION 1 - SHEETS 24 AND 25 UDPATED WITH QUALITY LEVEL B (QLB) DATA. DESIGNATES PERFORMED 03/01/22 THROUGH 03/02/22.

UTILITY LEGEND:

A	AERIAL
	UNKNOWN UTILITY
O	OIL
CTV	CABLE TV
T	TELEPHONE
G	GAS
E	ELECTRIC
E	TRAFFIC SIGNAL/LIGHTING
W	WATER
	FORCE MAIN
FO	FIBER OPTIC
	TEST HOLE
EOI	END OF INFORMATION
ED	ELECTRONIC DEPTH

JOHN J. BELLIS
062-044796
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

signature

03/14/2022
date

License Expires 11/30/2023

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Cert No. 6091 - LB No. 7055

USER NAME = Erick.Maleza	DESIGNED -		REVISED -
	DRAWN - EM		REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - EG		REVISED -
PLOT DATE = 3/13/2022	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM WATER ST. TO US 30
JOLIET, ILLINOIS

SCALE: | SHEET 21 OF 25 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	25	21
		CONTRACT NO. 60W35		
	ILLINOIS	FED. AID PROJECT		

IDOT W.O. 215, 216 & 503

exp.

USER NAME = SALASL	DESIGNED - CMA		REVISED -
	DRAWN - CMA		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH		REVISED -
PLOT DATE = 10/14/2025	DATE - 8/22/2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	201
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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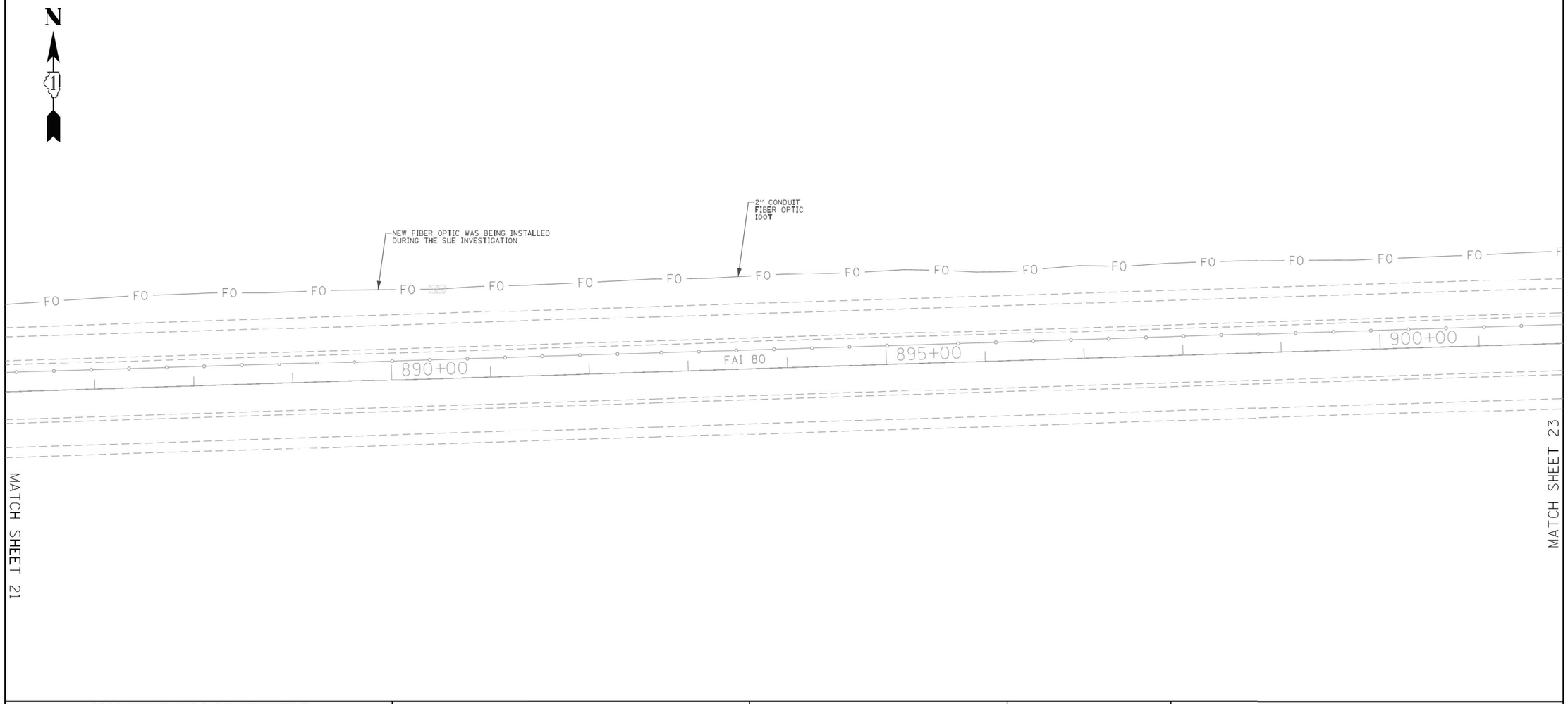

ASCE STANDARDS OF DEPICTION OF SUBSURFACE UTILITIES

QUALITY LEVEL A (QLA)
PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) USING MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO MINIMIZE POTENTIAL FOR UTILITY DAMAGE, AND SUBSEQUENT MEASUREMENT OF THE SUBSURFACE UTILITIES WITH OTHER UTILITY ATTRIBUTES SUCH AS TYPE, SIZE & MATERIAL OF UTILITY.

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QUALITY LEVEL C (QLC)
INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTLITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

QUALITY LEVEL D (QLD)
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

GENERAL NOTES:

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A	AERIAL
	UNKNOWN UTILITY
O	OIL
CTV	CABLE TV
T	TELEPHONE
G	GAS
E	ELECTRIC
E	TRAFFIC SIGNAL/LIGHTING
W	WATER
	FORCE MAIN
FO	FIBER OPTIC
	TEST HOLE
EOI	END OF INFORMATION
ED	ELECTRONIC DEPTH

JOHN J. BELLIS
062-044796
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

John J Bellis
signature

03/14/2022
date

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Cert No. 6091 - LB No. 7055

USER NAME = Erick.Maleza	DESIGNED -		REVISED -
	DRAWN - EM		REVISED -
PLOT SCALE = 100.0000 ' / In.	CHECKED - EG		REVISED -
PLOT DATE = 3/13/2022	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM WATER ST. TO US 30
JOLIET, ILLINOIS

SCALE: | SHEET 22 OF 25 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	25	22
		CONTRACT NO. 60W35		
		ILLINOIS	FED. AID PROJECT	

IDOT W.O. 215, 216 & 503

exp.

USER NAME = SALASL	DESIGNED - CMA		REVISED -
	DRAWN - CMA		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH		REVISED -
PLOT DATE = 10/14/2025	DATE - 8/22/2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	202
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
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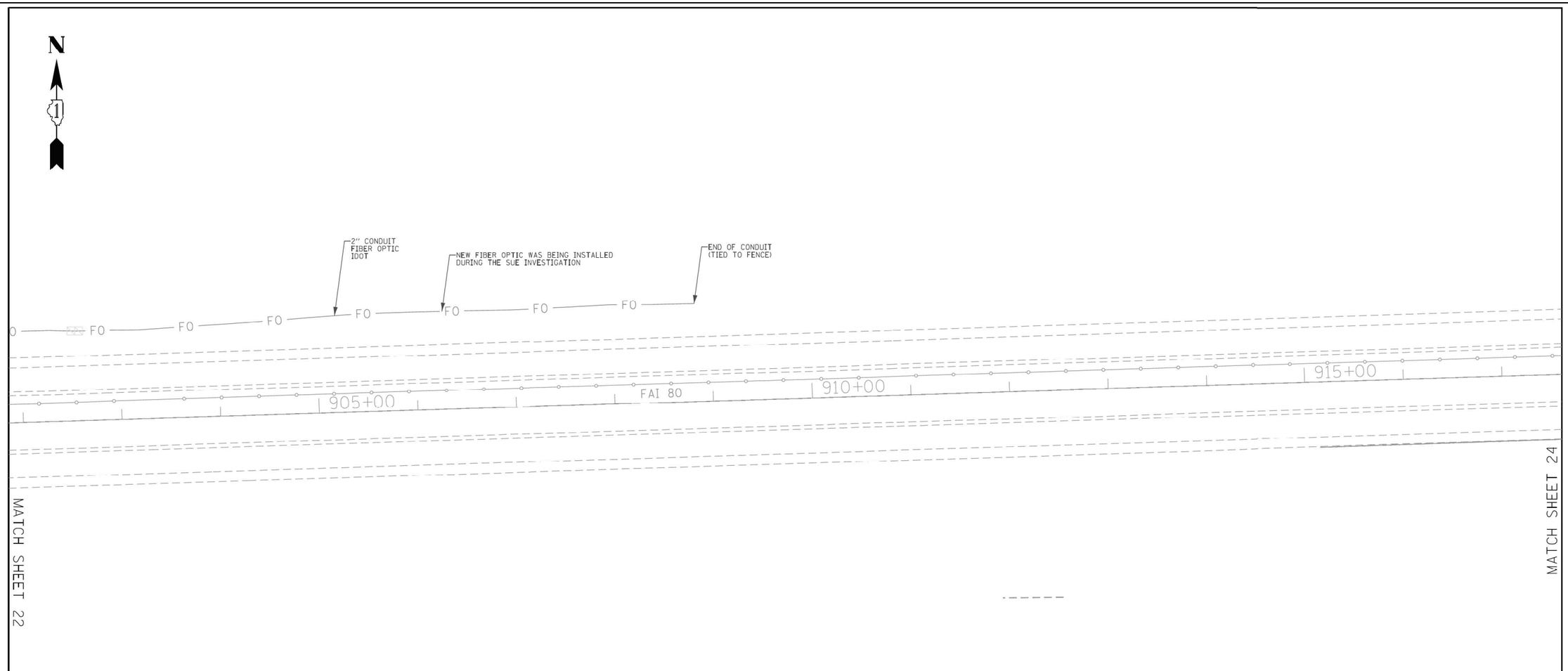

ASCE STANDARDS OF DEPICTION OF SUBSURFACE UTILITIES

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PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) USING MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO MINIMIZE POTENTIAL FOR UTILITY DAMAGE, AND SUBSEQUENT MEASUREMENT OF THE SUBSURFACE UTILITIES WITH OTHER UTILITY ATTRIBUTES SUCH AS TYPE, SIZE & MATERIAL OF UTILITY.

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QUALITY LEVEL C (QLC)
INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

QUALITY LEVEL D (QLD)
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

GENERAL NOTES:

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REVISION 1 - SHEETS 24 AND 25 UDPATED WITH QUALITY LEVEL B (QLB) DATA. DESIGNATES PERFORMED 03/01/22 THROUGH 03/02/22.

UTILITY LEGEND:

A	- AERIAL
	- UNKNOWN UTILITY
O	- OIL
CTV	- CABLE TV
T	- TELEPHONE
G	- GAS
E	- ELECTRIC
E	- TRAFFIC SIGNAL/LIGHTING
W	- WATER
	- FORCE MAIN
FO	- FIBER OPTIC
	- TEST HOLE
EOI	- END OF INFORMATION
ED	- ELECTRONIC DEPTH

JOHN J. BELLIS
062-044796
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

John J Bellis
signature

03/14/2022
date

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USER NAME = Erick.Maleza	DESIGNED -		REVISED -
	DRAWN - EM		REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - EG		REVISED -
PLOT DATE = 3/13/2022	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM WATER ST. TO US 30
JOLIET, ILLINOIS

SCALE: | SHEET 23 OF 25 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	25	23
		CONTRACT NO. 60W35		
	ILLINOIS	FED. AID PROJECT		

IDOT W.O. 215, 216 & 503

MODEL: 2D SHEET H
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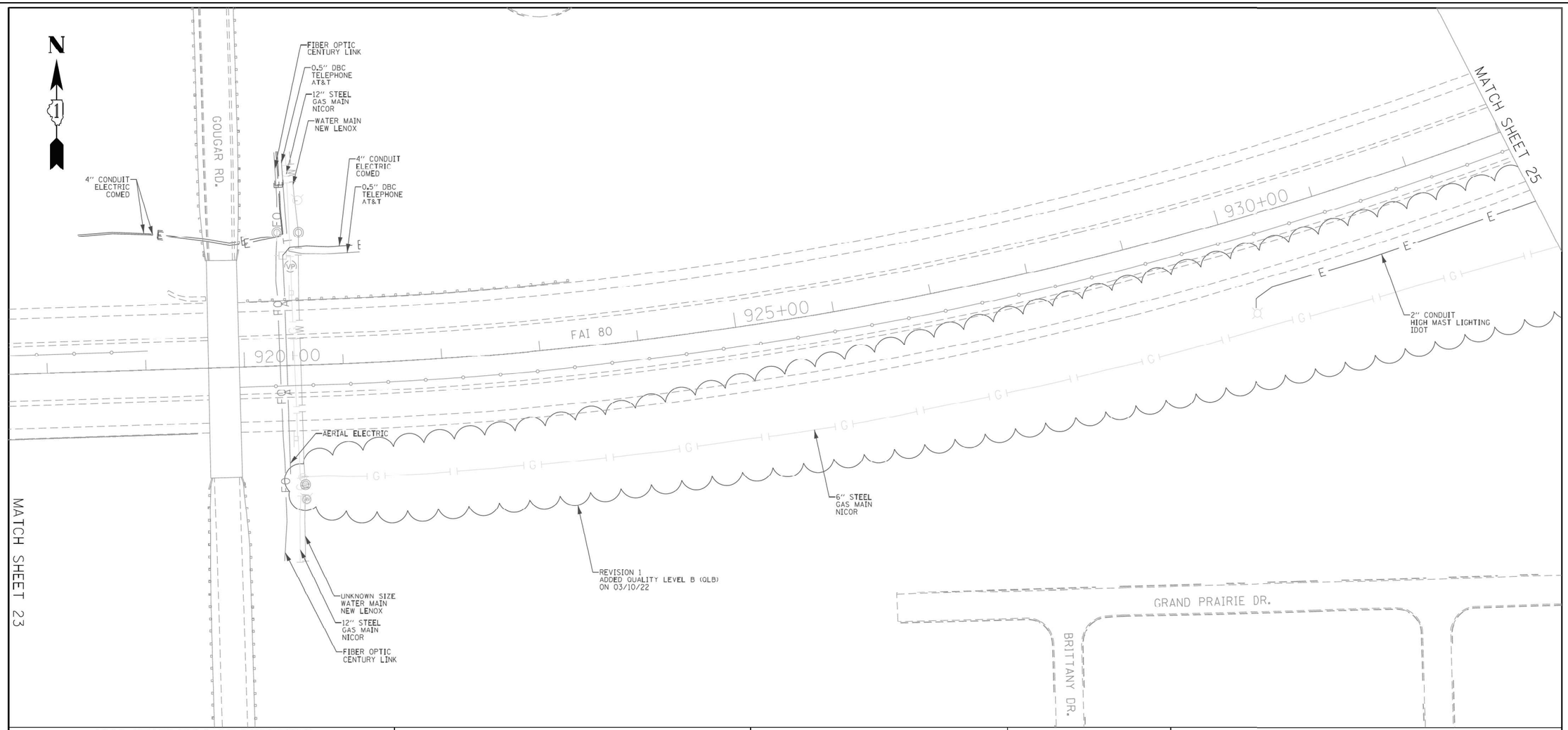
USER NAME = SALASL	DESIGNED - CMA		REVISED -
	DRAWN - CMA		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH		REVISED -
PLOT DATE = 10/14/2025	DATE - 8/22/2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	203
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



ASCE STANDARDS OF DEPICTION OF SUBSURFACE UTILITIES

QUALITY LEVEL A (QLA)
PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) USING MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO MINIMIZE POTENTIAL FOR UTILITY DAMAGE, AND SUBSEQUENT MEASUREMENT OF THE SUBSURFACE UTILITIES WITH OTHER UTILITY ATTRIBUTES SUCH AS TYPE, SIZE & MATERIAL OF UTILITY.

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QUALITY LEVEL D (QLD)
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

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REVISION 1 - SHEETS 24 AND 25 UDPATED WITH QUALITY LEVEL B (QLB) DATA. DESIGNATES PERFORMED 03/01/22 THROUGH 03/02/22.

UTILITY LEGEND:

- A — AERIAL
- — UNKNOWN UTILITY
- O — OIL
- CTV — CABLE TV
- T — TELEPHONE
- G — GAS
- E — ELECTRIC
- E — TRAFFIC SIGNAL/LIGHTING
- W — WATER
- — FORCE MAIN
- FO — FIBER OPTIC
- — TEST HOLE
- EOI — END OF INFORMATION
- ED — ELECTRONIC DEPTH

JOHN J. BELLIS
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signature

03/14/2022
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USER NAME = Erick.Maleza	DESIGNED -	REVISED - REVISION 1 - 03/10/22	
	DRAWN - EM	REVISED -	
PLOT SCALE = 100.0000 ' / In.	CHECKED - EG	REVISED -	
PLOT DATE = 3/14/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM WATER ST. TO US 30
JOLIET, ILLINOIS

SCALE: | SHEET 24 OF 25 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	25	24
		CONTRACT NO. 60W35		
		ILLINOIS	FED. AID PROJECT	

IDOT W.O. 215, 216 & 503

MODEL: 2D SHEET H
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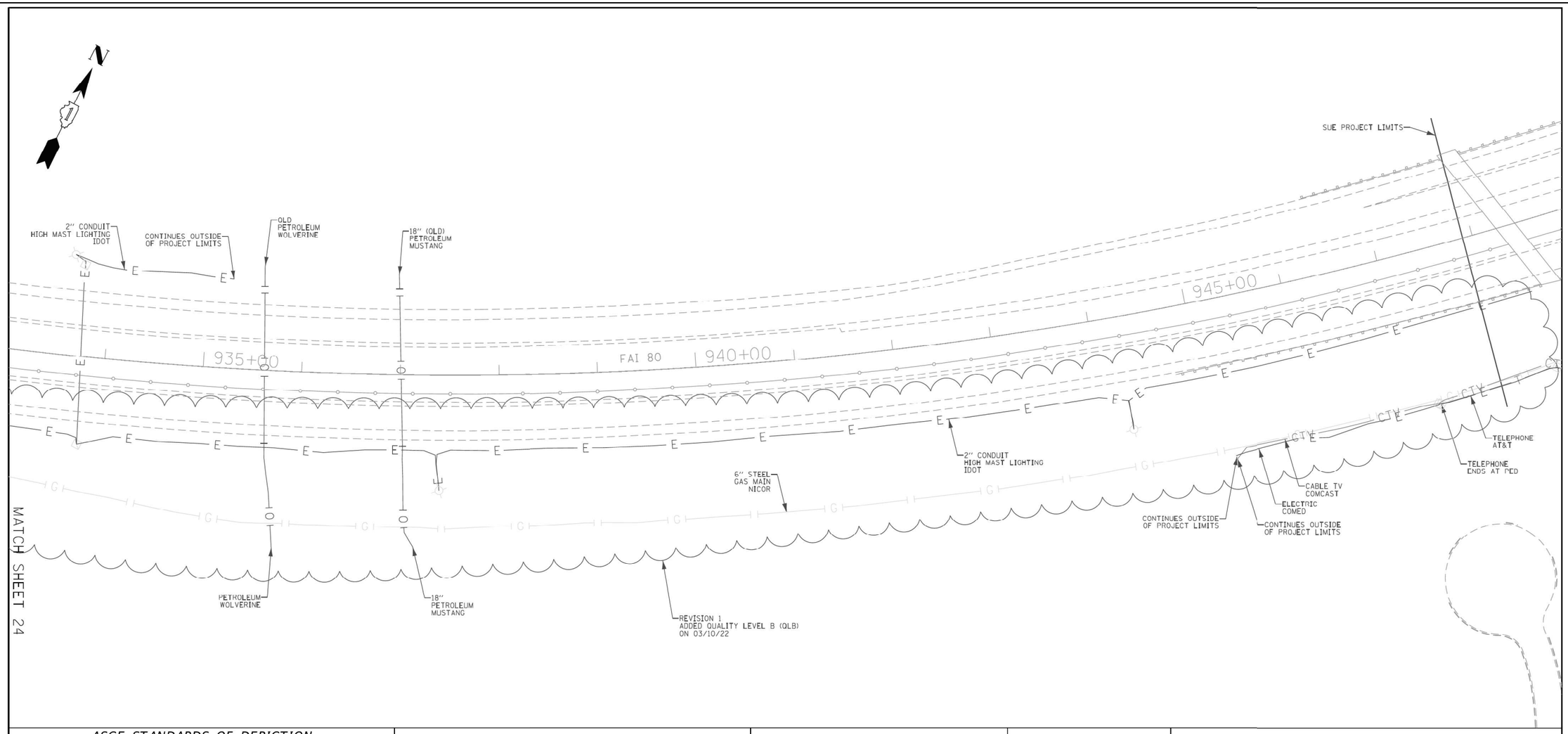
	DRAWN - CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH	REVISED -	
PLOT DATE = 10/14/2025	DATE - 8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	204
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	



ASCE STANDARDS OF DEPICTION OF SUBSURFACE UTILITIES

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QUALITY LEVEL D (OLD)
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

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signature

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	DRAWN - EM	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - EG	REVISED -	
PLOT DATE = 3/15/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM WATER ST. TO US 30
JOLIET, ILLINOIS

SCALE: | SHEET 25 OF 25 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	25	25
		CONTRACT NO. 60W35		
	ILLINOIS	FED. AID PROJECT		

IDOT W.O. 215, 216 & 503

exp.

USER NAME = SALASL	DESIGNED - CMA	REVISED -	
	DRAWN - CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH	REVISED -	
PLOT DATE = 10/14/2025	DATE - 8/22/2025	REVISED -	

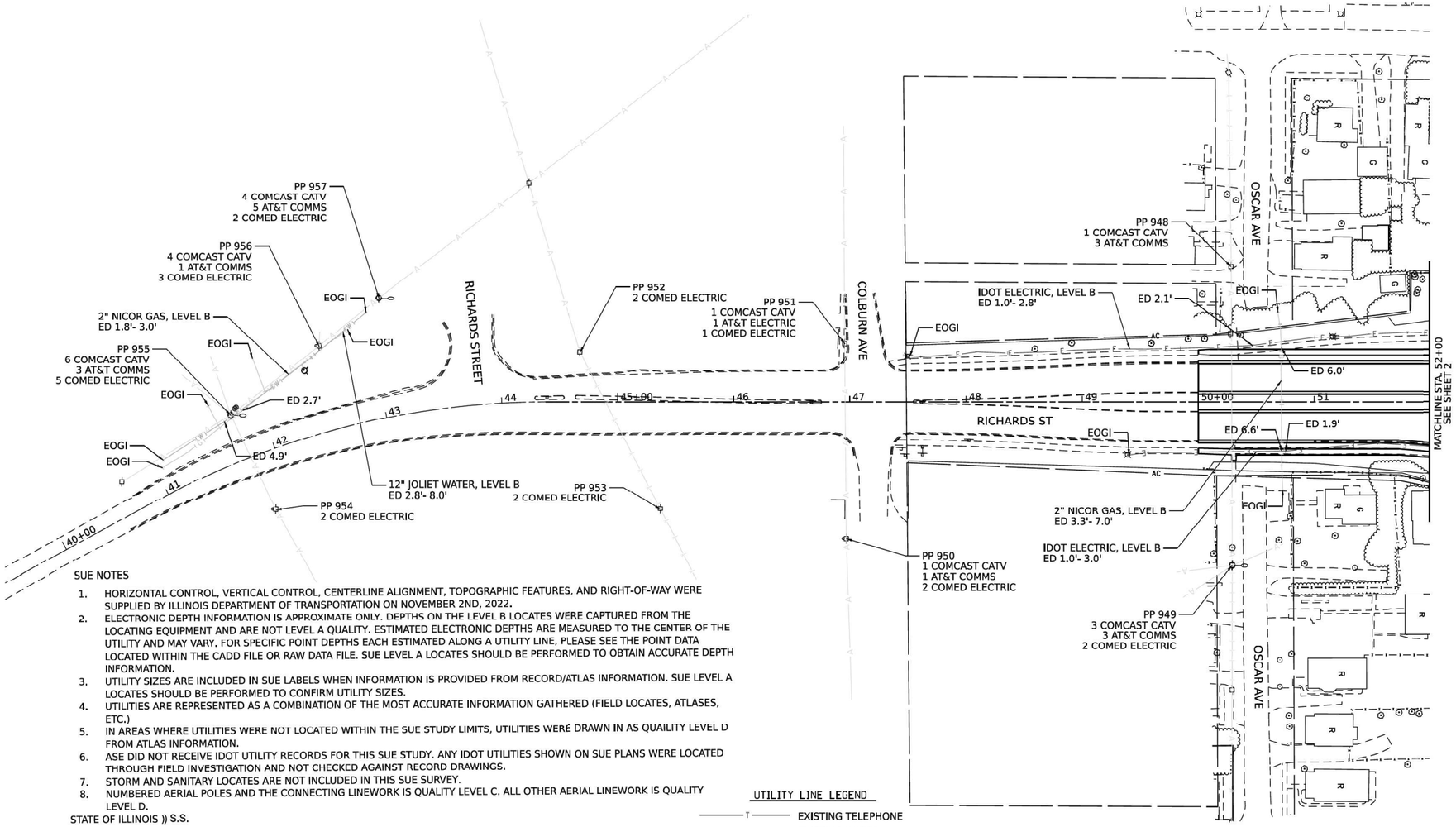
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	205
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-001(DMS3145102R19-SHT-SUE-70.DGN



SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES. AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 2ND, 2022.
2. ELECTRONIC DEPTH INFORMATION IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.
3. UTILITY SIZES ARE INCLUDED IN SUE LABELS WHEN INFORMATION IS PROVIDED FROM RECORD/ATLAS INFORMATION. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO CONFIRM UTILITY SIZES.
4. UTILITIES ARE REPRESENTED AS A COMBINATION OF THE MOST ACCURATE INFORMATION GATHERED (FIELD LOCATES, ATLASES, ETC.)
5. IN AREAS WHERE UTILITIES WERE NOT LOCATED WITHIN THE SUE STUDY LIMITS, UTILITIES WERE DRAWN IN AS QUAILITY LEVEL D FROM ATLAS INFORMATION.
6. ASE DID NOT RECEIVE IDOT UTILITY RECORDS FOR THIS SUE STUDY. ANY IDOT UTILITIES SHOWN ON SUE PLANS WERE LOCATED THROUGH FIELD INVESTIGATION AND NOT CHECKED AGAINST RECORD DRAWINGS.
7. STORM AND SANITARY LOCATES ARE NOT INCLUDED IN THIS SUE SURVEY.
8. NUMBERED AERIAL POLES AND THE CONNECTING LINEWORK IS QUALITY LEVEL C. ALL OTHER AERIAL LINEWORK IS QUALITY LEVEL D.

STATE OF ILLINOIS)) S.S.

COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL A (QLA), QUALITY LEVEL B (QLB), AND QUALITY LEVEL C (QLC).
ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 29TH DAY OF NOVEMBER, 2022 AND THE 21ST DAY OF DECEMBER, 2022

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL 25TH DAY OF JANUARY, 2023. CHICAGO, IL.

THOMAS A. SANDERSON 062-054022 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL
ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

UTILITY LINE LEGEND

T	EXISTING TELEPHONE
W	EXISTING WATER
E	EXISTING ELECTRIC
G	EXISTING GAS
CTV	EXISTING CABLE TV
FO	EXISTING FIBER OPTIC
A	EXISTING AERIAL LINE
O	EXISTING UNDERGROUND OIL PIPE LINE
	EXISTING UNDERGROUND SANITARY
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED
VP	VENT PIPE

Bravo Company ENGINEERING

AMERICAN SURVEYING & ENGINEERING, P.C.

DESIGNED -	JI
DRAWN -	JI
CHECKED -	TGB
DATE -	01/13/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALES HORIZ. 0 50 100

SUE STUDY PLAN
RICHARDS STREET AT I-80

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	3	1
		CONTRACT NO. 62380		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MODEL: SHEETS
FILE NAME: \\152.168.50.5\BravoShare\jobs\257 - IDOT PTB198 Item 7 ASEW0 442\CAD\SHEETS\257_442_SUE_01.dgn

exp.

USER NAME = SALASL		DESIGNED -	CMA	REVISED -	
		DRAWN -	CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED -	BRH	REVISED -	
PLOT DATE = 10/14/2025		DATE -	8/22/2025	REVISED -	

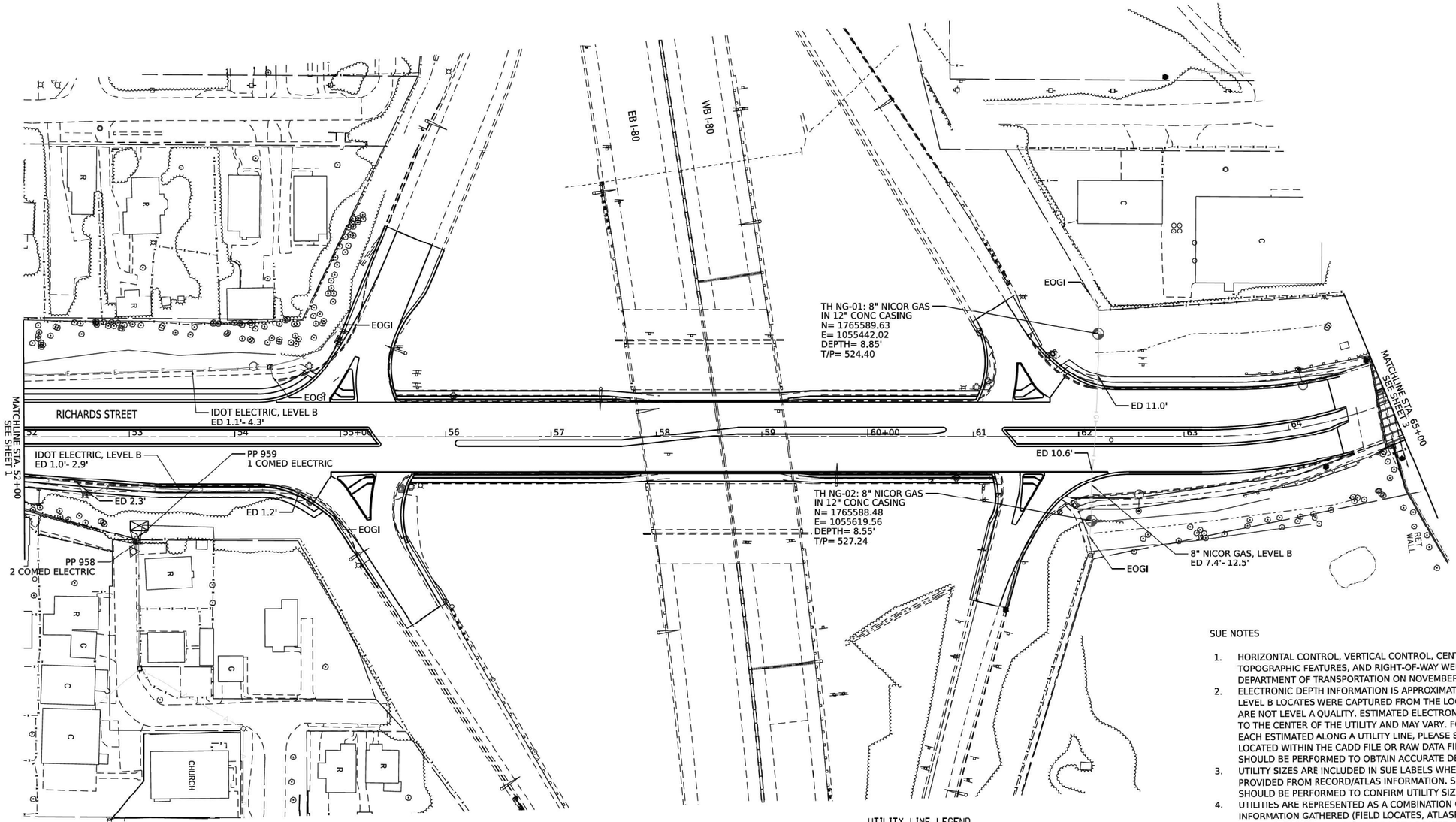
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	206
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET M
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\62R19-SHT-SUE-71.DGN



STATE OF ILLINOIS)) S.S.

COUNTY OF COOK)

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THOMAS A. SANDERSON 062-054022 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

UTILITY LINE LEGEND

T	EXISTING TELEPHONE
W	EXISTING WATER
E	EXISTING ELECTRIC
G	EXISTING GAS
CTV	EXISTING CABLE TV
FO	EXISTING FIBER OPTIC
A	EXISTING AERIAL LINE
O	EXISTING UNDERGROUND OIL PIPE LINE
	EXISTING UNDERGROUND SANITARY
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED
VP	VENT PIPE

SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 2ND, 2022.
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8. NUMBERED AERIAL POLES AND THE CONNECTING LINEWORK IS QUALITY LEVEL C. ALL OTHER AERIAL LINEWORK IS QUALITY LEVEL D.

MODEL: SHEETS
FILE NAME: \\192.168.50.5\BravoShare\jobs\257 - IDOT PTB198 Item 7 ASE\W0 442\CAD\SHEETS\257_442_SUE_01.dgn

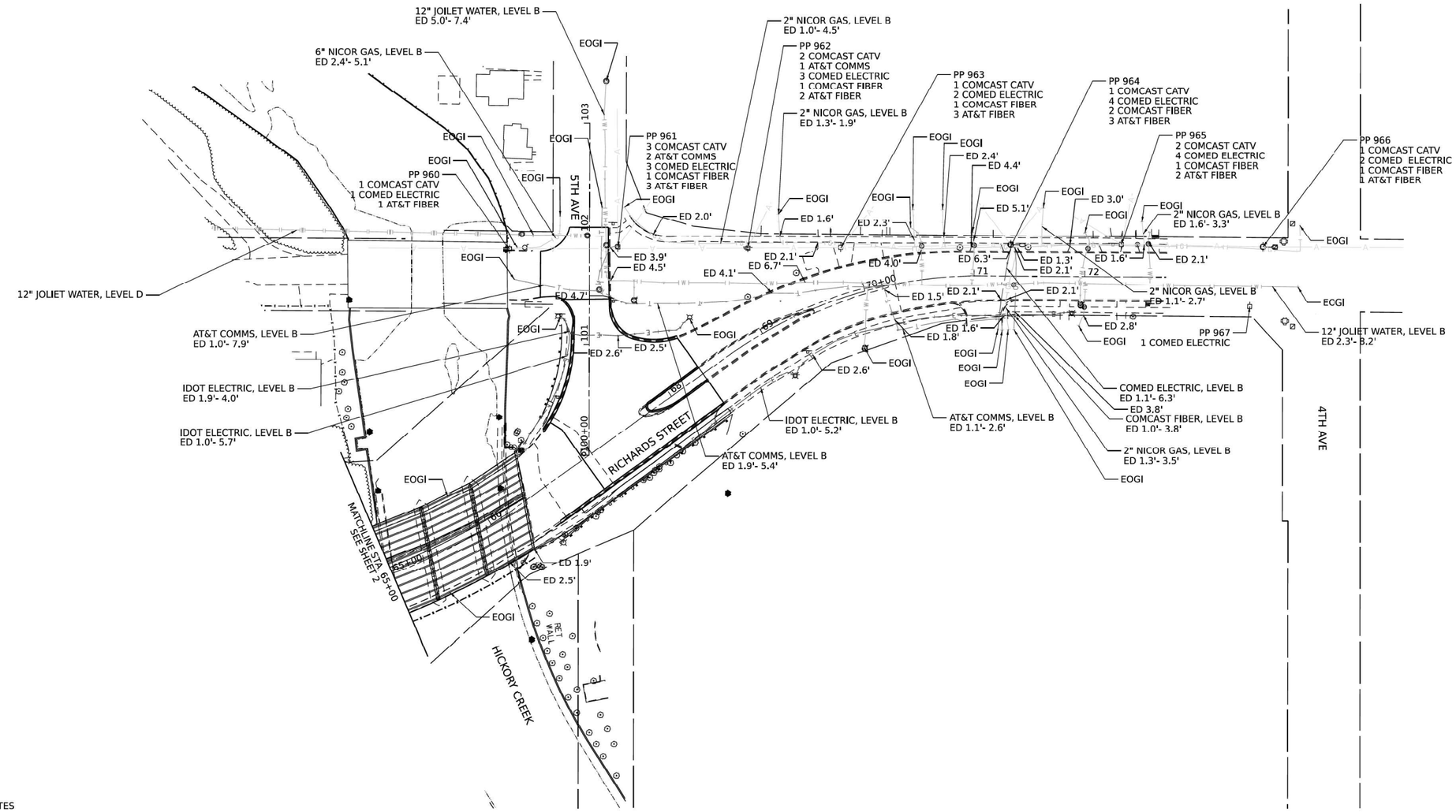
Bravo Company ENGINEERING	AMERICAN SURVEYING & ENGINEERING, P.C.	DESIGNED - JI DRAWN - JI CHECKED - TGR DATE - 01/13/2023	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	SCALES HORIZ. 0 50 100	SUE STUDY PLAN RICHARDS STREET AT I-80 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	3	2
		CONTRACT NO. 62380		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET M
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS3145162R13-SHT-SUE-72.DGN

exp.	USER NAME = SALASL PLOT SCALE = 0.16666667 ' / IN. PLOT DATE = 10/14/2025	DESIGNED - CMA DRAWN - CMA CHECKED - BRH DATE - 8/22/2025	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	I-80 SUE UTILITIES SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	207
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



SUE NOTES

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STATE OF ILLINOIS)) S.S.

COUNTY OF COOK)

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IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL 25TH DAY OF JANUARY, 2023. CHICAGO, IL.

THOMAS A. SANDERSON
062-054022
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

UTILITY LINE LEGEND

T	EXISTING TELEPHONE
W	EXISTING WATER
E	EXISTING ELECTRIC
G	EXISTING GAS
CTV	EXISTING CABLE TV
FO	EXISTING FIBER OPTIC
A	EXISTING AERIAL LINE
O	EXISTING UNDERGROUND OIL PIPE LINE
S	EXISTING UNDERGROUND SANITARY
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED
VP	VENT PIPE

MODEL: SHEETS
FILE NAME: \\192.168.50.58\BravoShare\jobs\257 - IDOT PTB198 Item 7 ASE\WO 442\CADD\SHEETS\257_442_SUE_01.dgn

Bravo Company ENGINEERING

AMERICAN SURVEYING & ENGINEERING, P.C.

DESIGNED -	JI
DRAWN -	JI
CHECKED -	TGB
DATE -	01/13/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALES HORIZ. 0 50 100

SUE STUDY PLAN
RICHARDS STREET AT I-80

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	3	3
		CONTRACT NO. 62380		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS3145\162R19-SHT-SUE-73.DGN

exp.

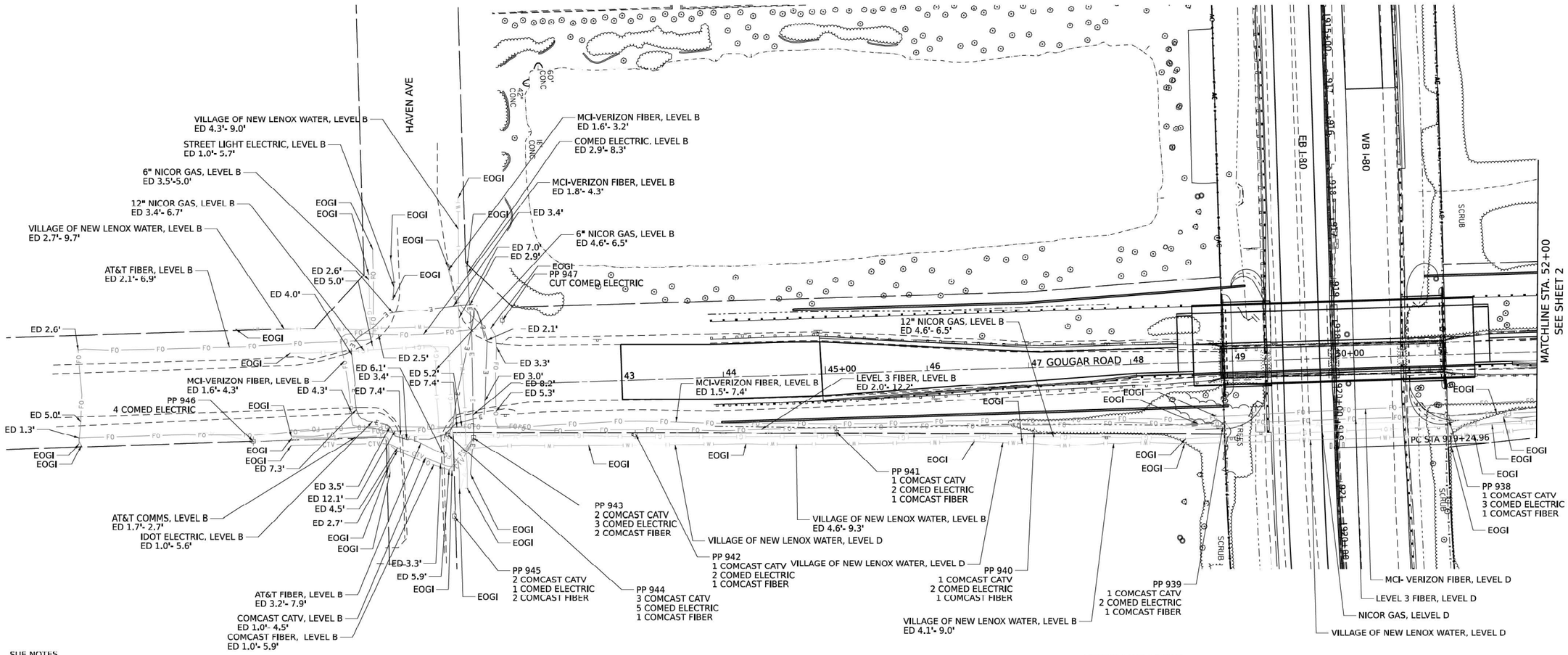
USER NAME = SALASL	DESIGNED - CMA		REVISED -
	DRAWN - CMA		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH		REVISED -
PLOT DATE = 10/14/2025	DATE - 8/22/2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	208
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



SUE NOTES

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STATE OF ILLINOIS)) S.S.

COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 6TH DAY OF DECEMBER, 2022 AND THE 21ST DAY OF DECEMBER, 2022

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 25TH DAY OF JANUARY A.D., 2023. CHICAGO, IL.

THOMAS A. SANDERSON
062-054022
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62 054022
MY LICENSE EXPIRES 11/30/2023

UTILITY LINE LEGEND

T	EXISTING TELEPHONE
W	EXISTING WATER
E	EXISTING ELECTRIC
G	EXISTING GAS
CTV	EXISTING CABLE TV
FO	EXISTING FIBER OPTIC
A	EXISTING AERIAL LINE
O	EXISTING UNDERGROUND OIL PIPE LINE
S	EXISTING UNDERGROUND SANITARY
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED
VP	VENT PIPE

MODEL: SHEETS
FILE NAME: \\192.168.50.5\Bravo5\Share\Jobs\257 • IDOT PTB198 Item 7 #SEW03 443\CADD\SHEETS\257_443_SUE_01.dgn

Bravo Company ENGINEERING

AMERICAN SURVEYING & ENGINEERING, P.C.

DESIGNED -	JI
DRAWN -	JI
CHECKED -	TGB
DATE -	01/17/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALES
HORIZ.
0 50 100

GOUGAR ROAD AT I-80
HAVEN AVE TO FERRO DRIVE

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303		WILL	2	1
		CONTRACT NO. 62R29		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-0110\MS314510\62R19-SHT-SUE-74.DGN

exp.

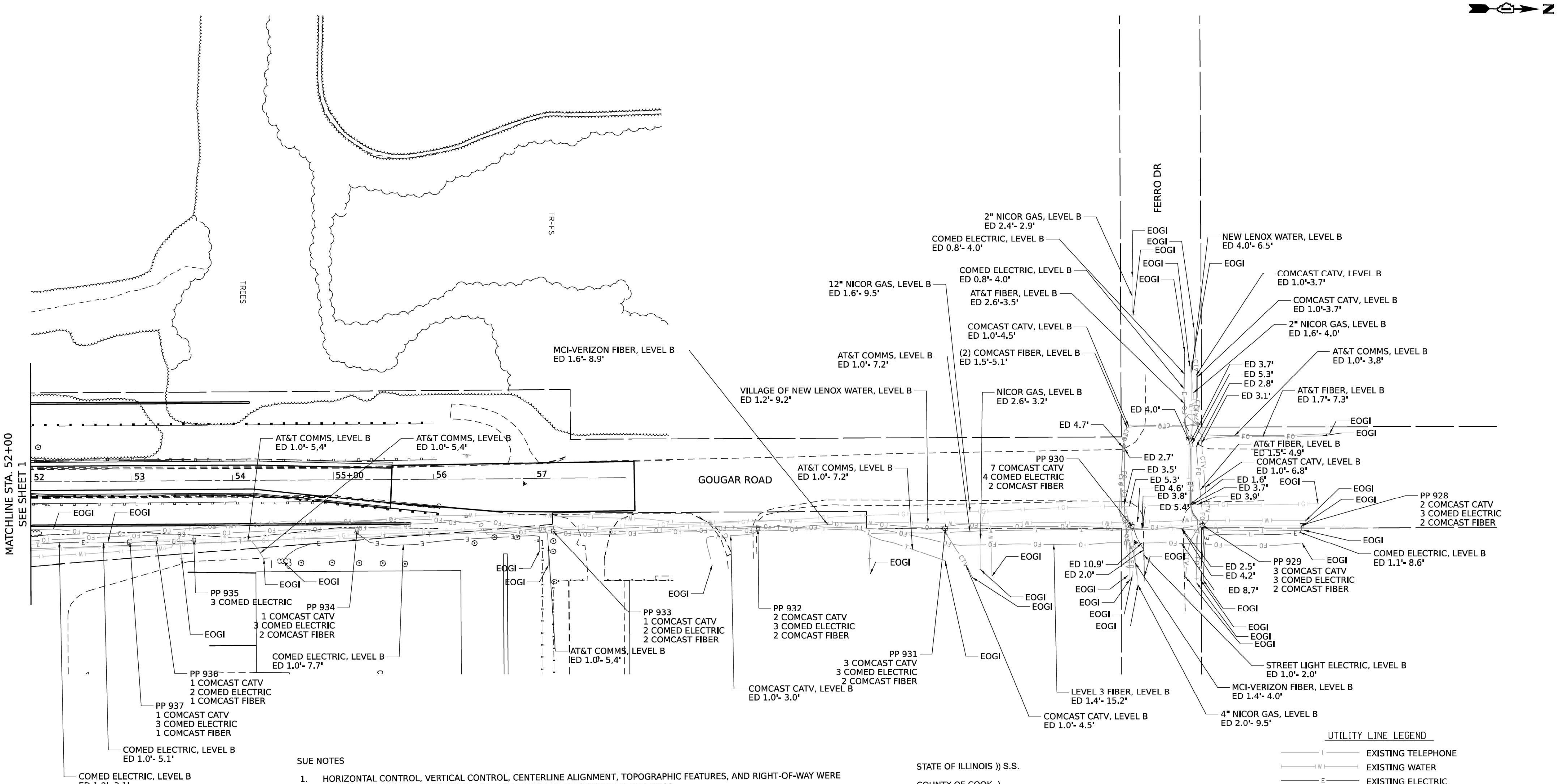
USER NAME = SALASL	DESIGNED - CMA	REVISED -	
	DRAWN - CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - BRH	REVISED -	
PLOT DATE = 10/14/2025	DATE - 8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	209
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



SUE NOTES

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STATE OF ILLINOIS)) S.S.

COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

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THOMAS A. SANDERSON · 062-054022 · LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

UTILITY LINE LEGEND

Symbol	Description
T	EXISTING TELEPHONE
W	EXISTING WATER
E	EXISTING ELECTRIC
G	EXISTING GAS
CTV	EXISTING CABLE TV
FO	EXISTING FIBER OPTIC
A	EXISTING AERIAL LINE
O	EXISTING UNDERGROUND OIL PIPE LINE
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T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
◕	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED
VP	VENT PIPE

MODEL: SHEETS
FILE NAME: \\192.168.50.5\BravoShare\Jobs\257 - IDOT PTB198 Item 7 ASE\WO 443\CAD\SHEETS\257_443_SUE_01.dgn

Bravo Company ENGINEERING | AMERICAN SURVEYING & ENGINEERING, P.C.

DESIGNED	JI
DRAWN	JI
CHECKED	TGB
DATE	01/17/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALES HORIZ. 0 50 100

GOUGAR ROAD AT I-80
HAVEN AVE TO FERRO DRIVE
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303		WILL	2	2
		CONTRACT NO. 62R29		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\62R19-SHT-SUE-75.DGN

exp.

USER NAME	= SALASL	DESIGNED -	CMA	REVISED -	
		DRAWN -	CMA	REVISED -	
PLOT SCALE	= 0.16666667 ' / IN.	CHECKED -	BRH	REVISED -	
PLOT DATE	= 10/14/2025	DATE -	8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

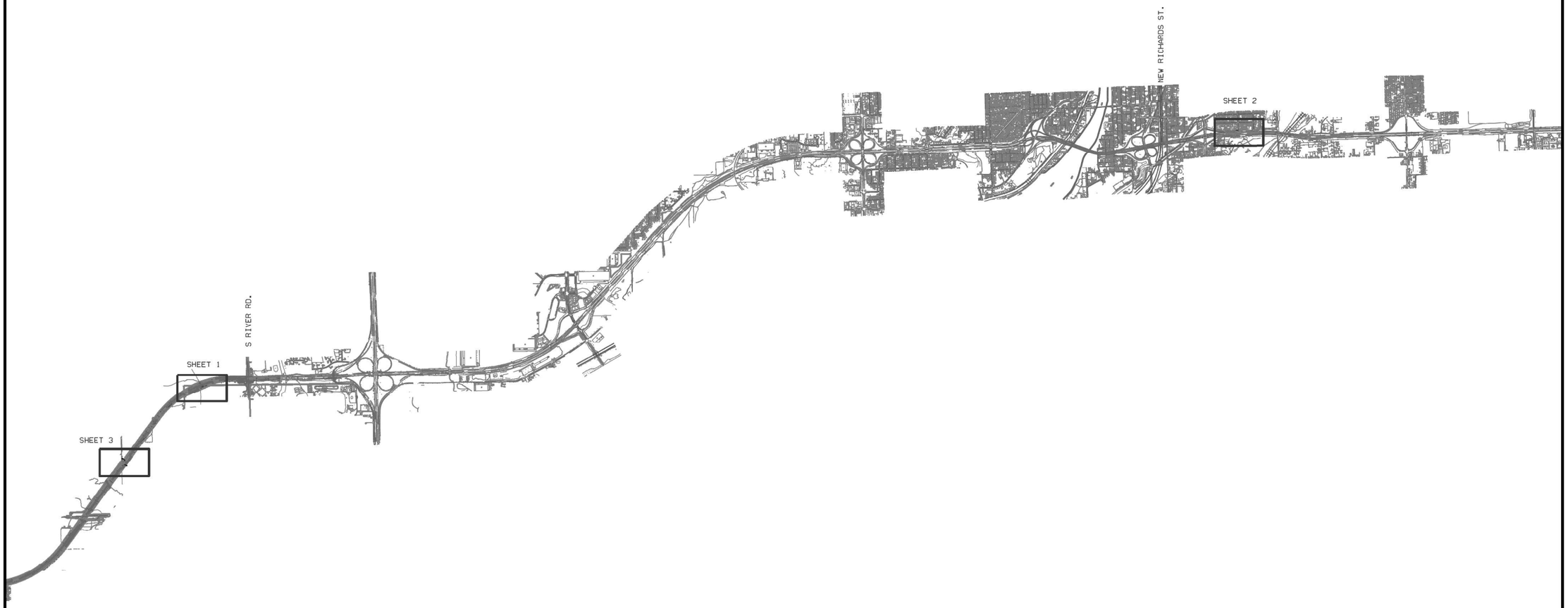
I–80
SUE UTILITIES
SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	210
		CONTRACT NO. 62R19		

ILLINOIS | FED. AID PROJECT

SUBSURFACE UTILITY INVESTIGATION

I-80 AND SOUTH RIVER ROAD
JOLIET, IL



AERIAL	
UNKNOWN	
TRAFFIC SIGNAL	
SANITARY SEWER	
GAS PIPELINE	
TELEPHONE	
PETROLEUM PIPELINE	
ELECTRIC	
WATER	
FIBER OPTIC	
T2 TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

PIPELINE - BP - ENBRIDGE - ONEOK

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 4/15/22 THROUGH 4/29/22. ADDITIONAL SUE QL-A INVESTIGATION PERFORMED ON 5/16/22. CHANGES TO UTILITIES AFTER 5/16/22 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, JR.
062-055488
STATE OF ILLINOIS
signature
5/23/22
date
license expires 11/30/23

T2 utility engineers

Accurate GROUP, INC.

T2 JOB NO. IL05300101, 103
SUE PLAN PAGE: COVER

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	TC	REV 1: 5/23/22 ADDED SH#3
DRAWN	KLC	
CHECKED	KFS	
DATE	5/06/22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 AND SOUTH RIVER ROAD
JOLIET, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2021-154-R	WILL		
		CONTRACT NO. 62P71		
FED. ROAD DIST. NO.		IDOT WO 510		

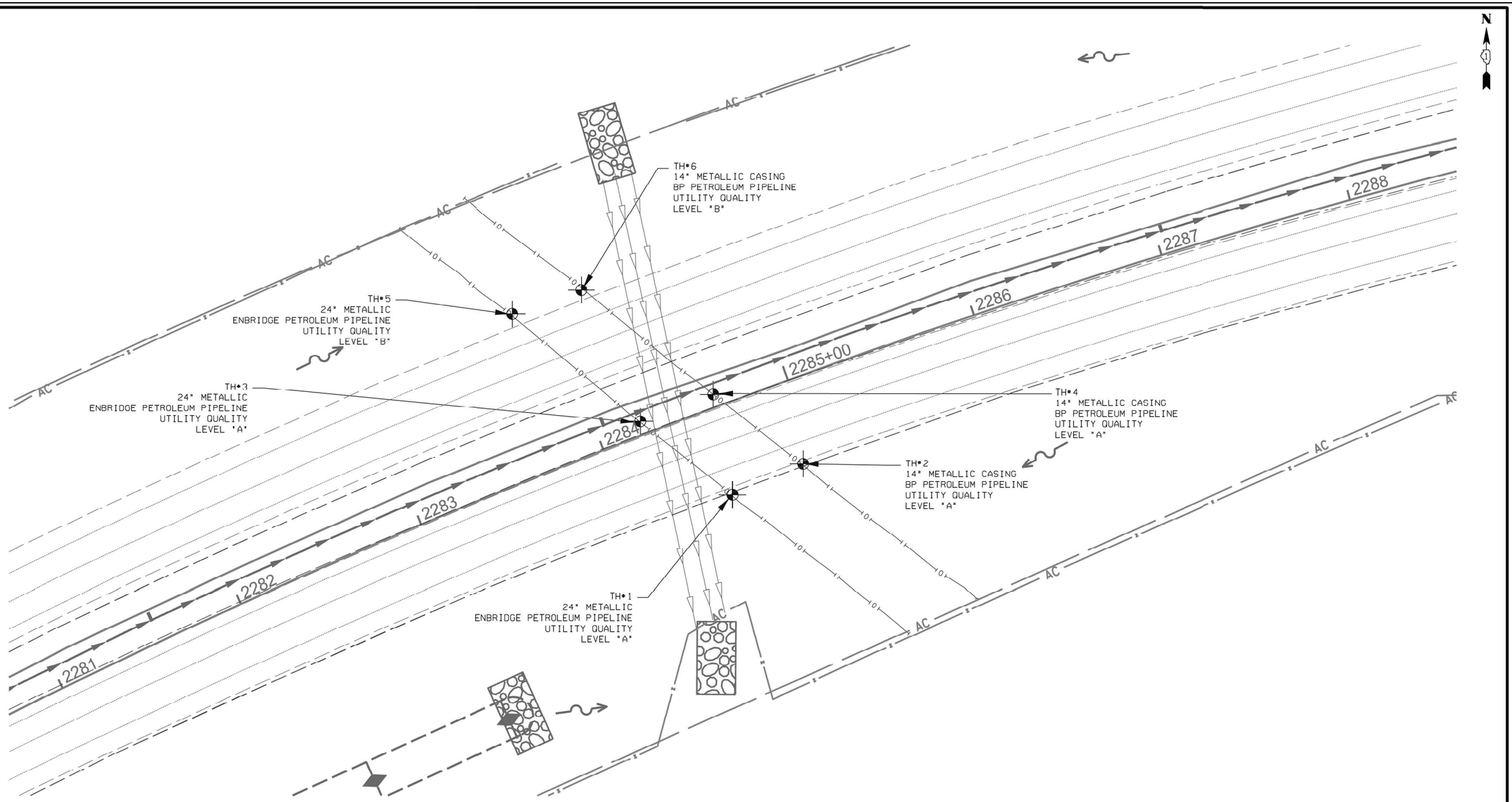
MODEL: 2D SHEET M
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\62R19-SHT-SUE-76.DGN

exp.

USER NAME = SALASL	DESIGNED - CMA	REVISED -	**STATE OF ILLINOIS**	**I-80**
	DRAWN - CMA	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**SUE UTILITIES**
PLOT SCALE = 0.16666667 '/ IN.	CHECKED - BRH	REVISED -		
PLOT DATE = 10/14/2025	DATE - 8/22/2025	REVISED -		

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	211
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



AERIAL	
UNKNOWN	
TRAFFIC SIGNAL	
SANITARY SEWER	
GAS PIPELINE	
TELEPHONE	
PETROLEUM PIPELINE	
ELECTRIC	
WATER	
FIBER OPTIC	
T2 TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

PIPELINE - BP - ENBRIDGE - ONEOK

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 4/15/22 THROUGH 4/29/22. ADDITIONAL SUE QL-A INVESTIGATION PERFORMED ON 5/16/22. CHANGES TO UTILITIES AFTER 5/16/22 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

10 0 METERS 10 20
25 0 FEET 25 50

LICENSED PROFESSIONAL ENGINEER
KENNETH F SLANINKA JR
062-055488
STATE OF ILLINOIS
signature
5/09/22
date
license expires 11/30/23

T2 utility engineers
Accurate GROUP, INC.

T2 JOB NO. IL05300101, 103
SUE PLAN PAGE: 1 OF 3

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	TC	REV 1: 5/23/22 ADDED SH•3
DRAWN	KLC	
CHECKED	KFS	
DATE	5/09/22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2021-154-R	WILL		
		CONTRACT NO. 62P71		
FED. ROAD DIST. NO.		IDOT WO 510		

MODEL: 2D SHEET M
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\62R19-SHT-SUE-77.DGN

exp.

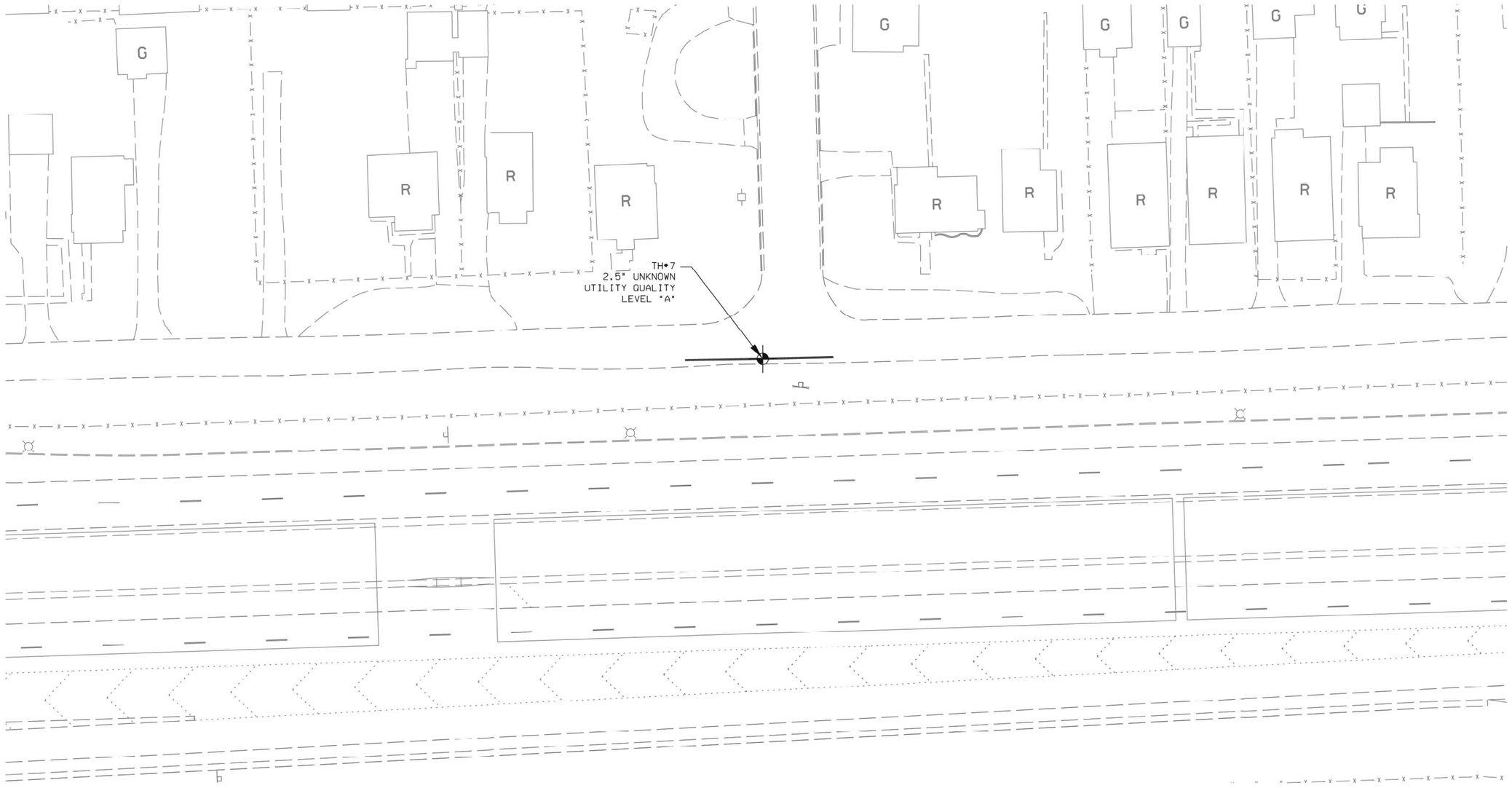
USER NAME = SALASL		DESIGNED - CMA		REVISED -	
		DRAWN - CMA		REVISED -	
PLOT SCALE = 0.16666667 '/ IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	212
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
GAS PIPELINE
TELEPHONE
PETROLEUM PIPELINE
ELECTRIC
WATER
FIBER OPTIC
T2 TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS

PIPELINE - BP - ENBRIDGE - ONEOK

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 4/15/22 THROUGH 4/29/22. ADDITIONAL SUE QL-A INVESTIGATION PERFORMED ON 5/16/22. CHANGES TO UTILITIES AFTER 5/16/22 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

10 0 METERS 10 20
25 0 FEET 25 50

LICENSED PROFESSIONAL ENGINEER
KENNETH F SLANINKA, Jr
062-055488
STATE OF ILLINOIS
signature
5/09/22
date
license expires 11/30/23

T2 utility engineers

Accurate GROUP, INC.

T2 JOB NO. IL05300101, 103
SUE PLAN PAGE: 2 OF 3

UTILITY QUALITY LEVEL 'A' = VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' = DESIGNATING
UTILITY QUALITY LEVEL 'C' = RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' = RECORDS RESEARCH

DESIGNED	TC
DRAWN	KLC
CHECKED	KFS
DATE	5/09/22

REV 1: 5/23/22 ADDED SH#3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 AT LINDEN AVE. AND MILES AVE.
JOLIET, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2021-154-R	WILL		
		CONTRACT NO. 62P71		
FED. ROAD DIST. NO.		IDOT WO 510		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS3145\162R19-SHT-SUE-78.DGN

exp.

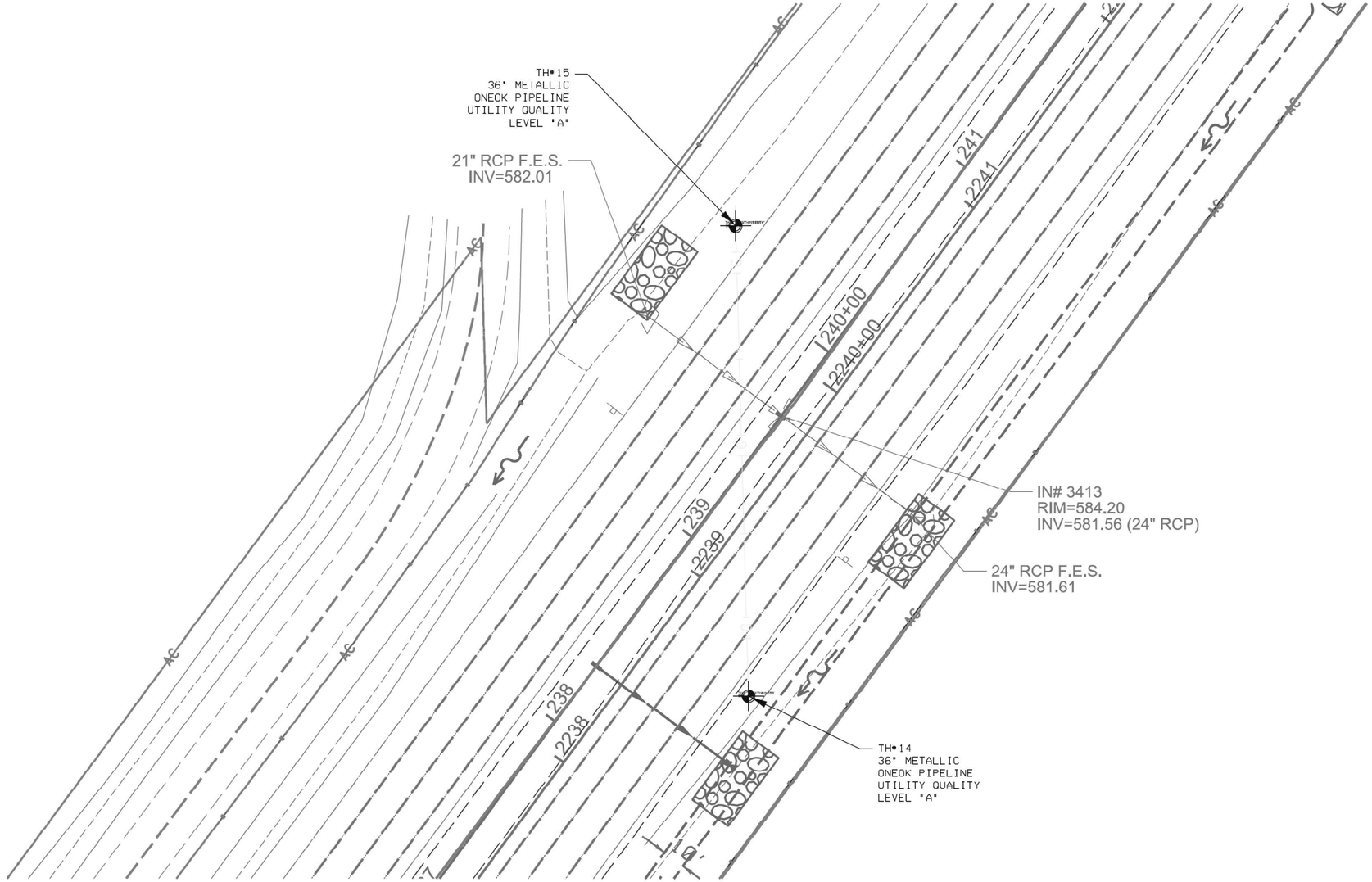
USER NAME = SALASL		DESIGNED - CMA		REVISED -	
		DRAWN - CMA		REVISED -	
PLOT SCALE = 0.16666667 '/ IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	213
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
GAS PIPELINE
TELEPHONE
PETROLEUM PIPELINE
ELECTRIC
WATER
FIBER OPTIC
T2 TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS

PIPELINE - BP - ENBRIDGE - ONEOK

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 4/15/22 THROUGH 4/29/22. ADDITIONAL SUE QL-A INVESTIGATION PERFORMED ON 5/16/22. CHANGES TO UTILITIES AFTER 5/16/22 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

10 0 METERS 10 20
25 0 FEET 25 50

LICENSED PROFESSIONAL ENGINEER
KENNETH F SLANINKA, Jr
062-055488
STATE OF ILLINOIS
signature
5/23/22
date
license expires 11/30/23

T2 utility engineers

Accurate GROUP, INC.

T2 JOB NO. IL05300101, 103
SUE PLAN PAGE: 3 OF 3

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	TC
DRAWN	KLC
CHECKED	KFS
DATE	5/09/22

REV 1: 5/23/22 ADDED SH•3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2021-154-R	WILL		
		CONTRACT NO. 62P71		
FED. ROAD DIST. NO.		IDOT WO 510		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3145162819-SHT-SUE-79.DGN

exp.

USER NAME = SALASL		DESIGNED - CMA		REVISED -	
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PLOT SCALE = 0.16666667 ' / IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

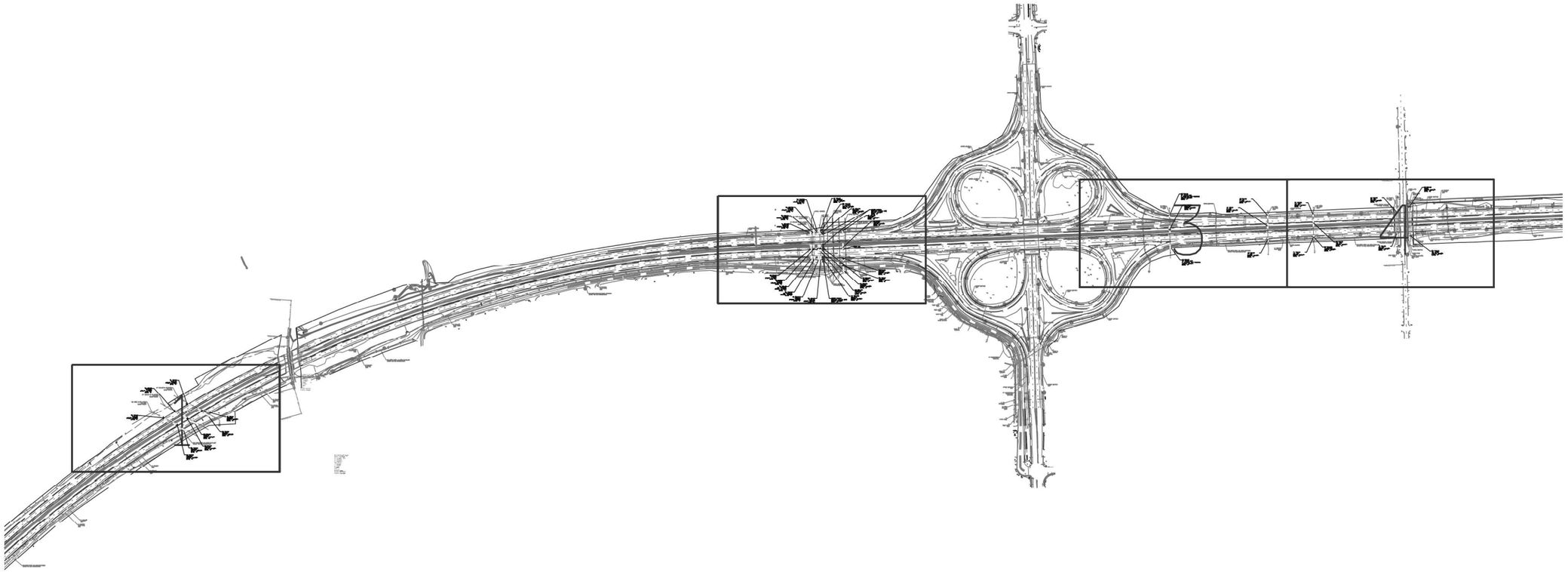
I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	214
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

I-80 EXPRESSWAY AND LARKIN AVENUE RAMPS
AND JOLIET JUNCTION TRAIL
JOLIET/ROCKDALE, IL

N



AERIAL	
UNKNOWN	
TRAFFIC SIGNAL	
SANITARY SEWER	
CTV — CTV	CABLE TV
T — T	TELEPHONE
G	GAS
E — E	ELECTRIC
W	WATER
FO — FO	FIBER OPTIC
	T2 TEST HOLE
EOI	END OF INFORMATION

UTILITY OWNERS

GAS - KINDER MORGAN, NICOR
ELECTRIC - KINDER MORGAN
WATER - CITY OF JOLIET

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 9/21/22 THROUGH 11/16/22. ADDITIONAL QL-A INVESTIGATION PERFORMED 4/19/23 THROUGH 5/11/23. CHANGES TO UTILITIES AFTER 11/16/22 MAY HAVE BEEN MADEND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS

Registration
6/01/23
date
license expires 11/30/23

T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

SANCHEZ

T2 JOB NO. IL09520840/20905/20911
SUE PLAN PAGE: COVER

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	AA
DRAWN	KLC
CHECKED	KFS
DATE	12/14/22

REVISION 5-25-23
ADDED TEST HOLES NG-01 THROUGH NG-12 & WM01 & WM03

STATE OF ILLINOIS
DEPARTMENT OF TRANSFORTATION

I-80 EXPRESSWAY AND LARKIN AVENUE RAMPS
AND JOLIET JUNCTION TRAIL
JOLIET/ROCKDALE, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	WILL		
		CONTRACT NO. 62R89		
FED. ROAD DIST. NO.				

MODEL: 2D SHEET H
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exp.

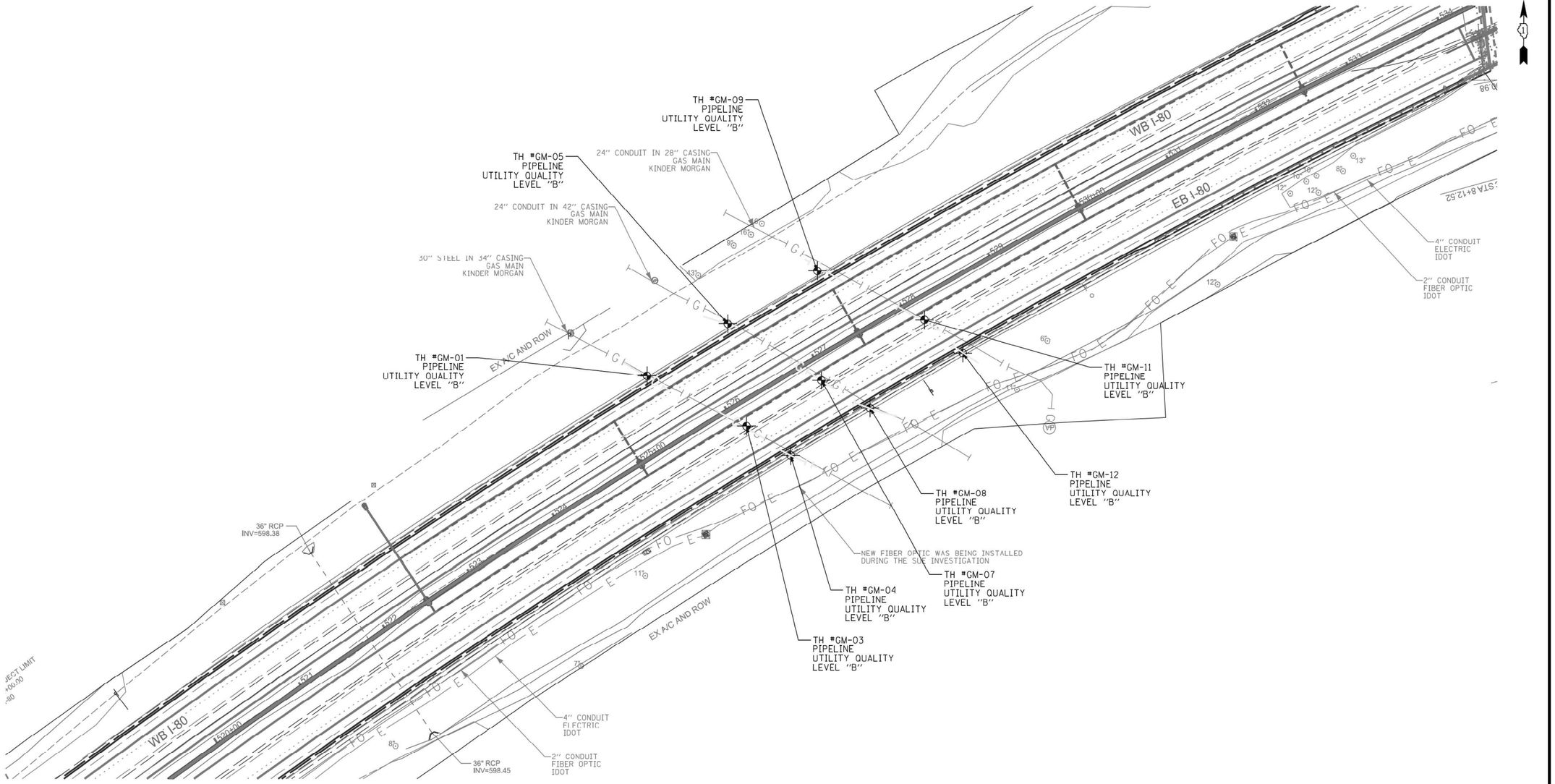
USER NAME = SALASL		DESIGNED -	CMA	REVISED -	
		DRAWN -	CMA	REVISED -	
PLOT SCALE = 0.16666667 '/ IN.		CHECKED -	BRH	REVISED -	
PLOT DATE = 10/14/2025		DATE -	8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSFORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	215
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



A — A — AERIAL	UTILITY OWNERS
UNKNOWN	GAS - KINDER MORGAN, NICOR
TRAFFIC SIGNAL	ELECTRIC - KINDER MORGAN
SANITARY SEWER	WATER - CITY OF JOLIET
CTV — CTV — CABLE TV	
T — T — TELEPHONE	
G — G — GAS	
E — E — ELECTRIC	
W — W — WATER	
FO — FO — FIBER OPTIC	
T2 TEST HOLE	
EOI END OF INFORMATION	

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 9/21/22 THROUGH 11/16/22. ADDITIONAL QL-A INVESTIGATION PERFORMED 4/19/23 THROUGH 5/11/23. CHANGES TO UTILITIES AFTER 11/16/22 MAY HAVE BEEN MADEND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

KENNETH F. SLANINKA, Jr. 062-055488 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS
12/14/22
date
license expires 11/30/23

T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520840/20905/20911
SUE PLAN PAGE: 1 OF 4

UTILITY QUALITY LEVEL 'A' = VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' = DESIGNATING
UTILITY QUALITY LEVEL 'C' = RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' = RECORDS RESEARCH

DESIGNED	AA	
DRAWN	KLC	
CHECKED	KFS	
DATE	12/14/22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 EXPRESSWAY AND LARKIN AVENUE RAMPS
AND JOLIET JUNCTION TRAIL
JOLIET/ROCKDALE, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	WILL		
		CONTRACT NO. 62R89		
FED. ROAD DIST. NO.				

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\62R19-SHT-SUE-81.DGN

exp.

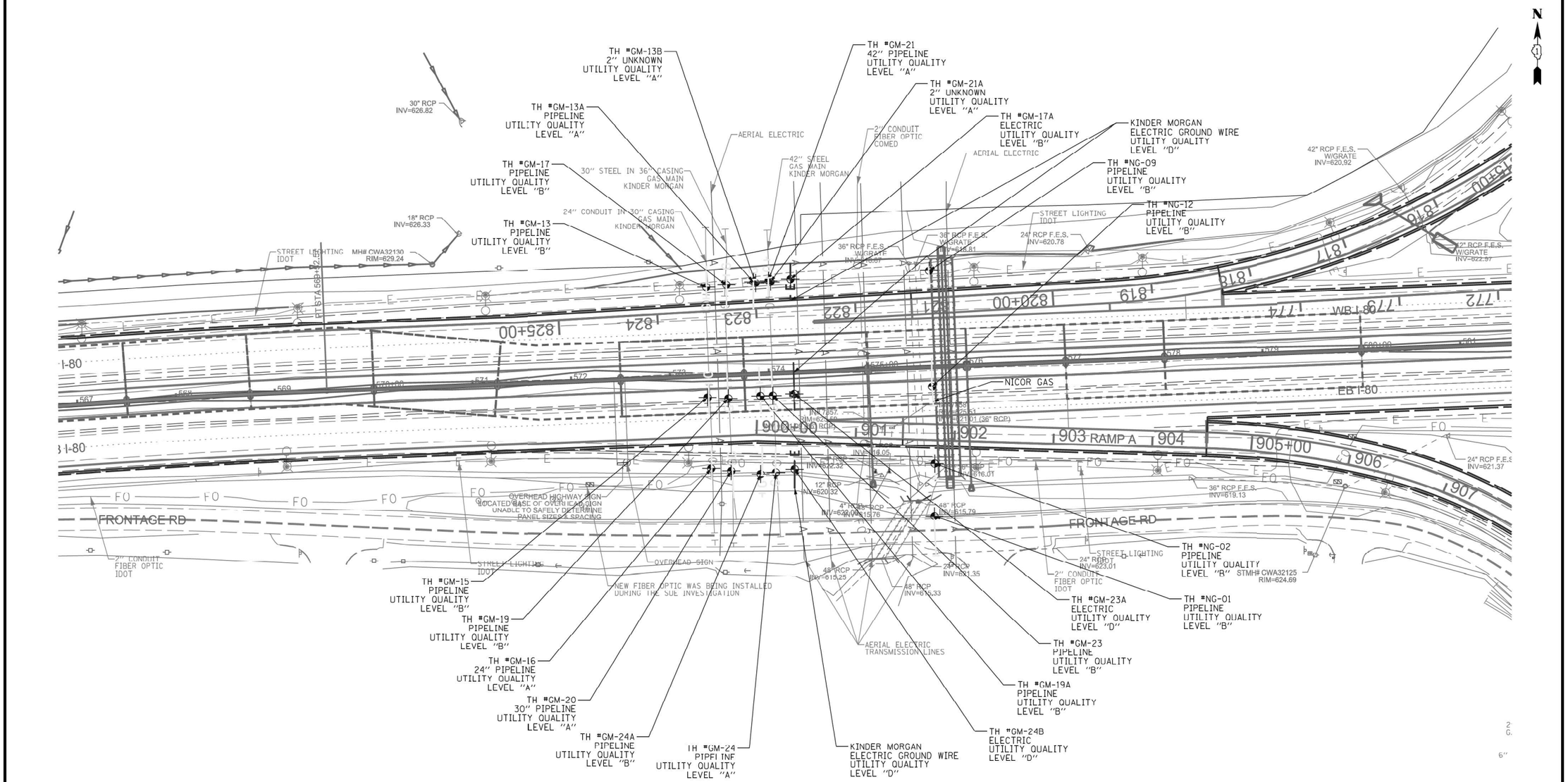
USER NAME = SALASL		DESIGNED - CMA		REVISED -	
		DRAWN - CMA		REVISED -	
PLOT SCALE = 0.16666667 '/ IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	216
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



AERIAL	
UNKNOWN	
TRAFFIC SIGNAL	
SANITARY SEWER	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
WATER	
FIBER OPTIC	
T2 TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

GAS - KINDER MORGAN, NICOR
ELECTRIC - KINDER MORGAN
WATER - CITY OF JOLIET

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 9/21/22 THROUGH 11/16/22. ADDITIONAL QL-A INVESTIGATION PERFORMED 4/19/23 THROUGH 5/11/23. CHANGES TO UTILITIES AFTER 11/16/22 MAY HAVE BEEN MADEND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

KENNETH F. SLANINKA, Jr.
062-055488
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
signature
6/01/23
date
license expires 11/30/23

T2 utility engineers
MILLENNIA PROFESSIONAL SERVICES
SANCHEZ

T2 JOB NO. IL09520840/20905/20911
SUE PLAN PAGE: 2 OF 4

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	AA
DRAWN	KLC
CHECKED	KFS
DATE	12/14/22

REVISION 5-25-23
ADDED TEST HOLES NC-01 THROUGH NC-12 & WM01 & WM03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 EXPRESSWAY AND LARKIN AVENUE RAMPS
AND JOLIET JUNCTION TRAIL
JOLIET/ROCKDALE, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	WILL		
		CONTRACT NO. 62R89		
FED. ROAD DIST. NO.				

exp.

USER NAME = SALASL		DESIGNED - CMA		REVISED -	
		DRAWN - CMA		REVISED -	
PLOT SCALE = 0.16666667 '/ IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

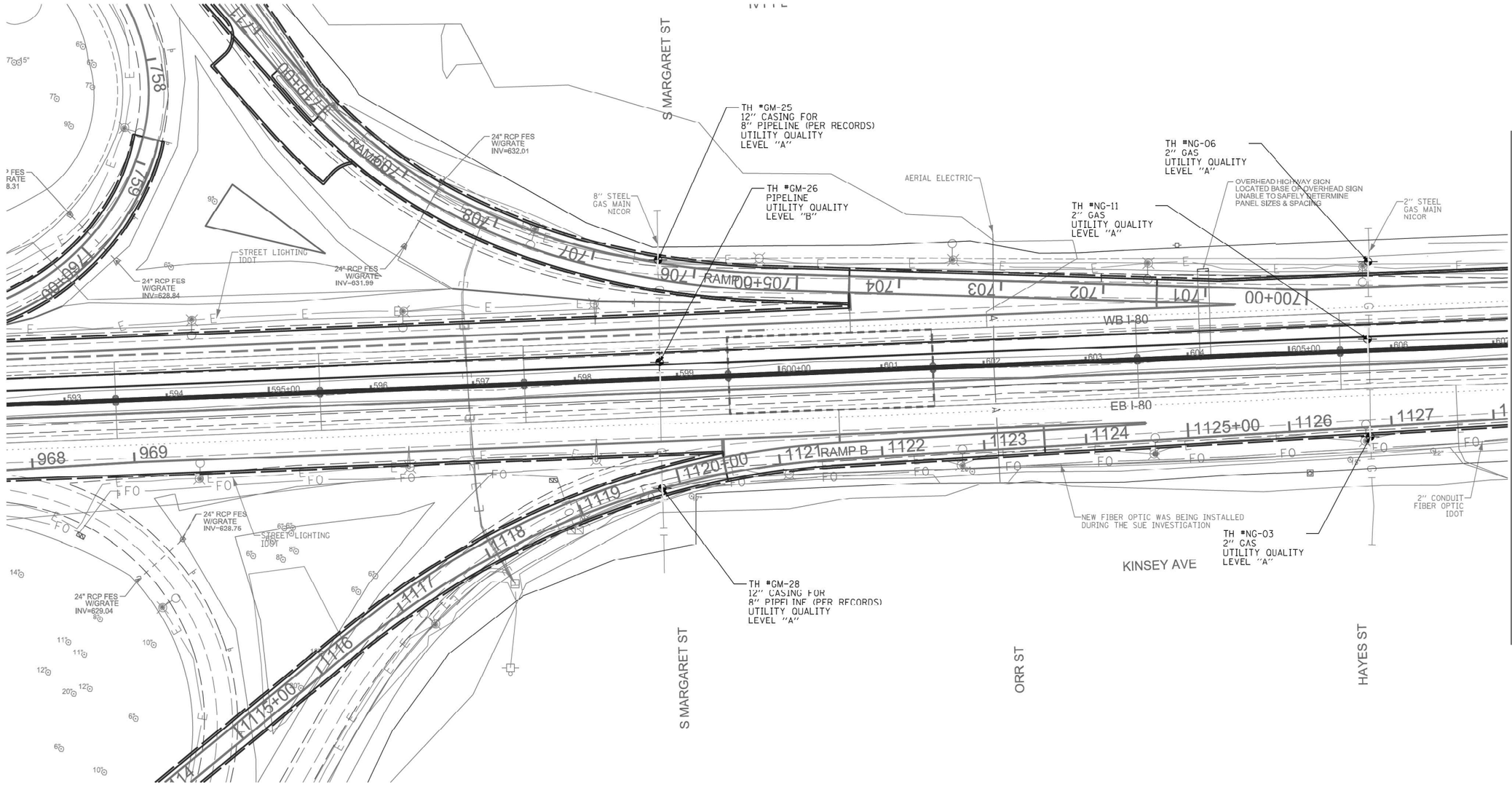
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	217
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3145\162R19-SHT-SUE-82.DGN



AERIAL	
UNKNOWN	
TRAFFIC SIGNAL	
SANITARY SEWER	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
WATER	
FIBER OPTIC	
T2 TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

GAS - KINDER MORGAN, NICOR
ELECTRIC - KINDER MORGAN
WATER - CITY OF JOLIET

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 9/21/22 THROUGH 11/16/22. ADDITIONAL QL-A INVESTIGATION PERFORMED 4/19/23 THROUGH 5/11/23. CHANGES TO UTILITIES AFTER 11/16/22 MAY HAVE BEEN MADEND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

KENNETH F. SLANINKA, JR. 062-055488 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS
signature
6/01/23
date
license expires 11/30/23

T2 utility engineers
MILLENNIA PROFESSIONAL SERVICES
SANCHEZ

T2 JOB NO. IL09520840/20905/20911
SUE PLAN PAGE: 3 OF 4

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	AA	REVISION 5-25-23 ADDED TEST HOLES NC-01 THROUGH NC-12 & WM01 & WM03
DRAWN	KLC	
CHECKED	KFS	
DATE	12/14/22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 EXPRESSWAY AND LARKIN AVENUE RAMPS
AND JOLIET JUNCTION TRAIL
JOLIET/ROCKDALE, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	WILL		
		CONTRACT NO. 62R89		
FED. ROAD DIST. NO.				

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3145116218-SHT-SUE-83.DGN

exp.

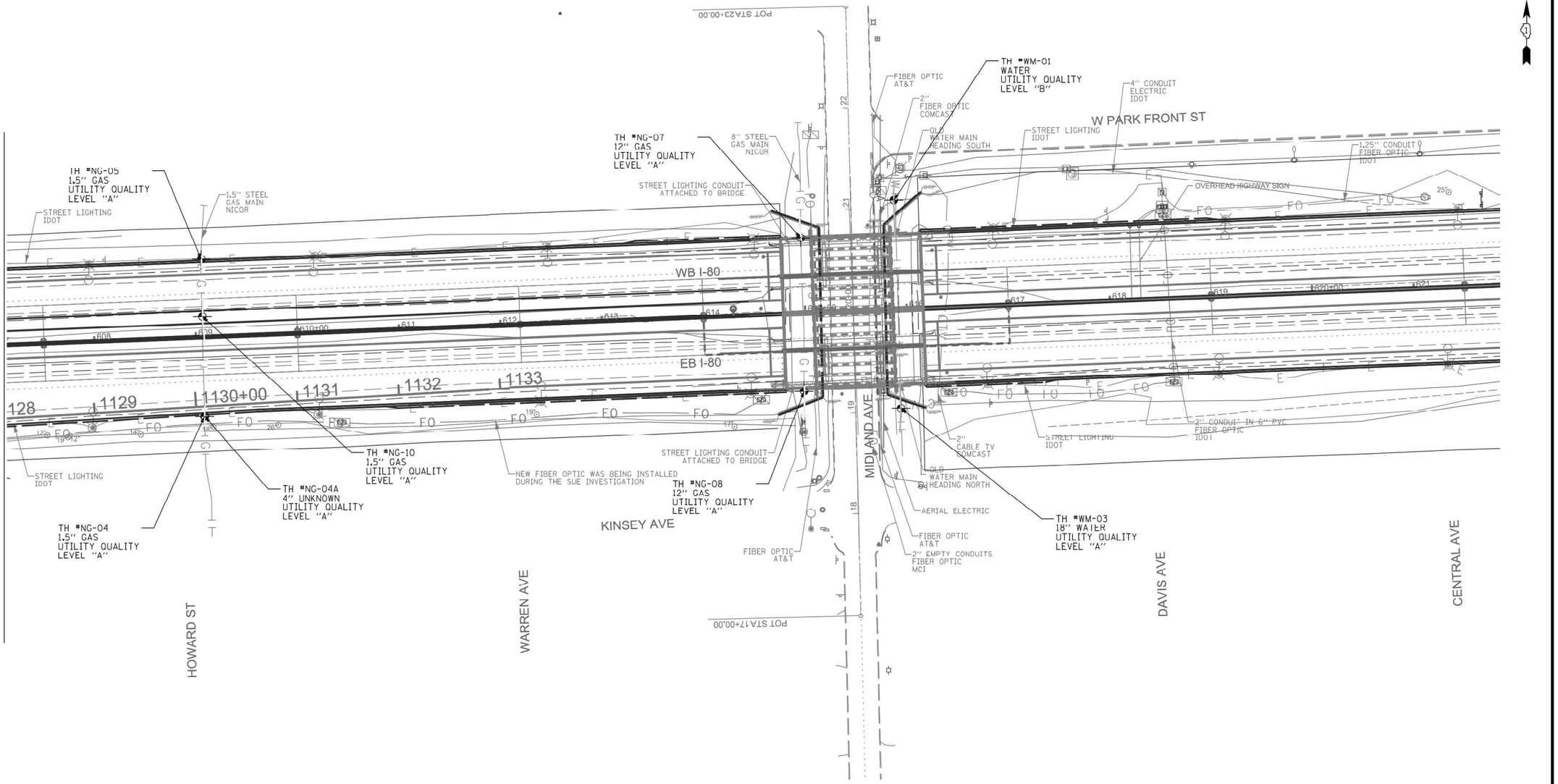
USER NAME = SALASL	DESIGNED - CMA	REVISED -	
	DRAWN - CMA	REVISED -	
PLOT SCALE = 0.16666667 '/ IN.	CHECKED - BRH	REVISED -	
PLOT DATE = 10/14/2025	DATE - 8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	218
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



AERIAL	
UNKNOWN	
TRAFFIC SIGNAL	
SANITARY SEWER	
CTV — CTV	CABLE TV
T — T	TELEPHONE
G	GAS
E — E	ELECTRIC
W	WATER
FO — FO	FIBER OPTIC
	T2 TEST HOLE
EOI	END OF INFORMATION

UTILITY OWNERS

GAS - KINDER MORGAN, NICOR
ELECTRIC - KINDER MORGAN
WATER - CITY OF JOLIET

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S SUE FIELD INVESTIGATION WAS PERFORMED 9/21/22 THROUGH 11/16/22. ADDITIONAL QL-A INVESTIGATION PERFORMED 4/19/23 THROUGH 5/11/23. CHANGES TO UTILITIES AFTER 11/16/22 MAY HAVE BEEN MADEND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
6/01/23
date
license expires 11/30/23

T2 utility engineers
MILLENNIA PROFESSIONAL SERVICES
SANCHEZ

T2 JOB NO. IL09520840/20905/20911
SUE PLAN PAGE: 4 OF 4

UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL 'B' : DESIGNATING
UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH

DESIGNED	AA	REVISION 5-25-23
DRAWN	KLC	ADDED TEST HOLES NC-01 THROUGH NC-12 & WM01 & WM03
CHECKED	KFS	
DATE	12/14/22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 EXPRESSWAY AND LARKIN AVENUE RAMPS
AND JOLIET JUNCTION TRAIL
JOLIET/ROCKDALE, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	WILL		
		CONTRACT NO. 62R89		
FED. ROAD DIST. NO.				

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\62R19-SHT-SUE-84.DGN

exp.

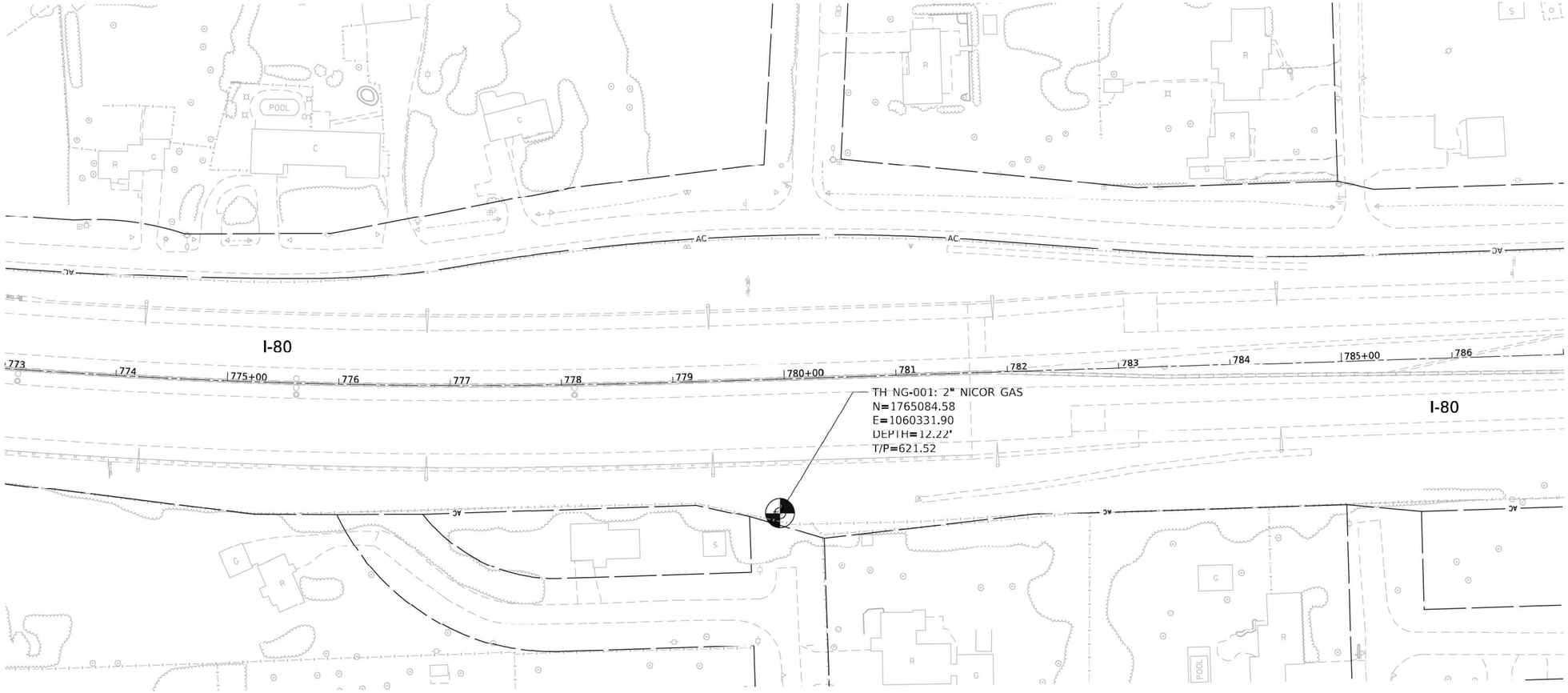
USER NAME = SALASL	DESIGNED - CMA	REVISED -	
	DRAWN - CMA	REVISED -	
PLOT SCALE = 0.16666667 '/ IN.	CHECKED - BRH	REVISED -	
PLOT DATE = 10/14/2025	DATE - 8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	219
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



UTILITY LINE LEGEND

- EXISTING UNDERGROUND TELEPHONE
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND GAS
- EXISTING UNDERGROUND CABLE TV
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING AERIAL LINE
- EOGI — END OF SURFACE GEOPHYSICAL INFORMATION
- T/P — TOP OF UTILITY PIPE (N/A)
- ED — ELECTRONIC DEPTH (IN FEET)
- PP — POWER POLE
- QUALITY LEVEL A (QLA) TEST HOLE COMPLETED

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL A (QLA) ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 12TH DAY OF OCTOBER, 2022 AND THE 19TH DAY OF DECEMBER, 2022.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THE 6TH DAY OF JANUARY A.D., 2023. CHICAGO, IL.

THOMAS A. SANDERSON 062-054022 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 30TH, 2021.
2. SUE QLA DATA WAS ONLY REQUESTED AT THE LOCATIONS SHOWN, THIS IS NOT A COMPLETE UTILITY INVESTIGATION OF THE AREA.
3. ELECTRONIC DEPTH INFORMATION, IF SHOWN FOR LEVEL B LINES, IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.

0 50 100 150
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: $FILES

AMERICAN SURVEYING & ENGINEERING, P.C.

USER NAME = $USER$		DESIGNED -	MM	REVISED -	____
		DRAWN -	MM	REVISED -	____
PLOT SCALE = $SCALE$		CHECKED -	TS	REVISED -	____
PLOT DATE = $DATE$		DATE -	1/3/2023	REVISED -	____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM BRIGGS ST TO GOUGAR RD
QLA SUE STUDY PLAN

SCALE: 1"=50' | SHEET __ OF __ SHEETS | STA. ____ | TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	_____	WILL	4	1
		CONTRACT NO. 62R29		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3145\162R19-SHT-SUE-85.DGN

exp.

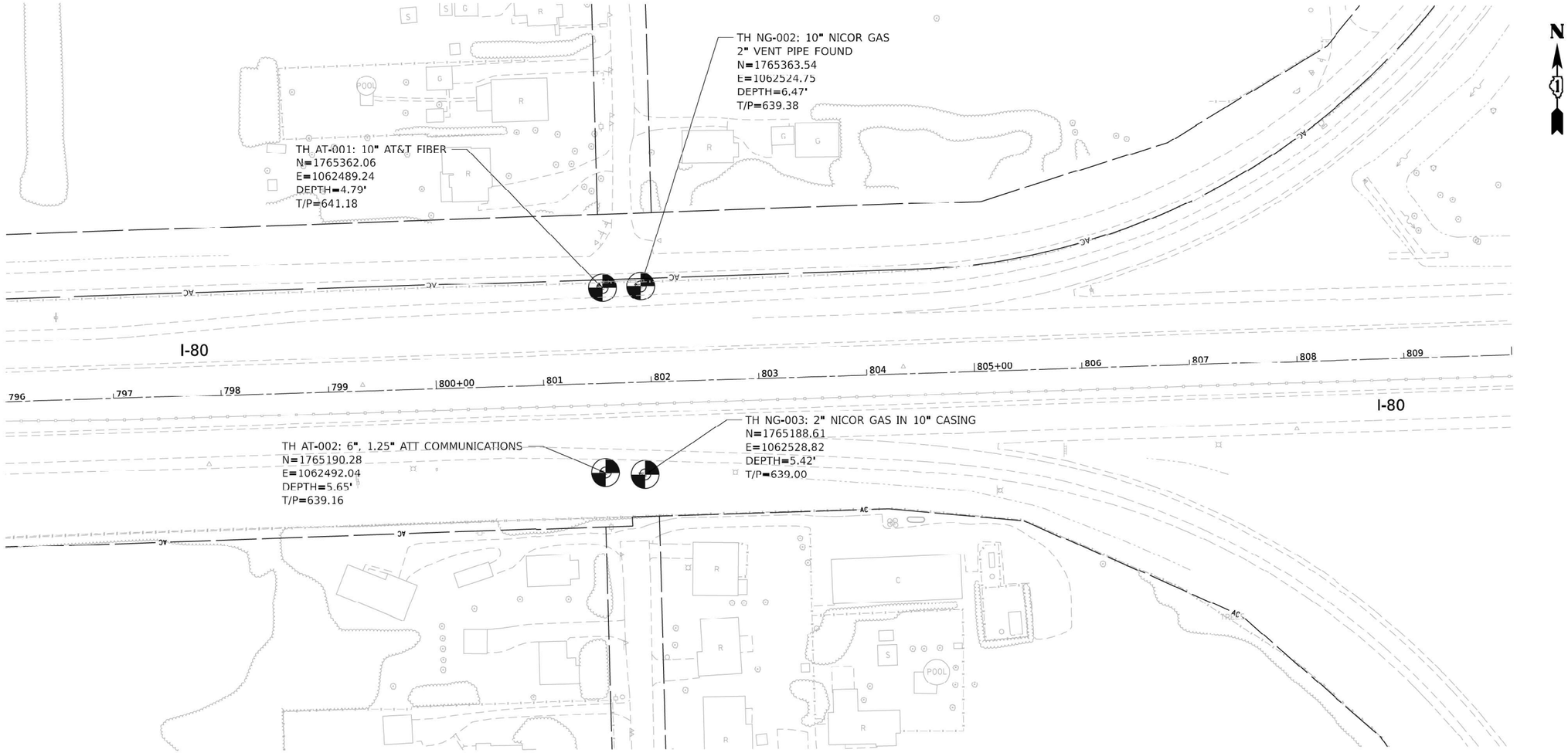
USER NAME = SALASL		DESIGNED -	CMA	REVISED -	
		DRAWN -	CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED -	BRH	REVISED -	
PLOT DATE = 10/14/2025		DATE -	8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	220
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



UTILITY LINE LEGEND

T T	EXISTING UNDERGROUND TELEPHONE
W W	EXISTING UNDERGROUND WATER
E E	EXISTING UNDERGROUND ELECTRIC
G G	EXISTING UNDERGROUND GAS
CTV CTV	EXISTING UNDERGROUND CABLE TV
FO FO	EXISTING UNDERGROUND FIBER OPTIC
	EXISTING AERIAL LINE
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICTED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL A (QLA) ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 12TH DAY OF OCTOBER, 2022 AND THE 19TH DAY OF DECEMBER, 2022.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THE 6TH DAY OF JANUARY A.D., 2023. CHICAGO, IL.

THOMAS A. SANDERSON 062-054022 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 30TH, 2021.
2. SUE QLA DATA WAS ONLY REQUESTED AT THE LOCATIONS SHOWN, THIS IS NOT A COMPLETE UTILITY INVESTIGATION OF THE AREA.
3. ELECTRONIC DEPTH INFORMATION, IF SHOWN FOR LEVEL B LINES, IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.

0 50 100 150
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: $FILEL$

AMERICAN SURVEYING & ENGINEERING, P.C.

USER NAME = $USER$		DESIGNED -	MM	REVISED -	
		DRAWN -	MM	REVISED -	
PLOT SCALE = $SCALE$		CHECKED -	TS	REVISED -	
PLOT DATE = $DATE$		DATE -	1/3/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM BRIGGS ST TO GOUGAR RD
QLA SUE STUDY PLAN

SCALE: 1"=50' | SHEET __ OF __ SHEETS | STA. ____ | TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	_____	WILL	4	2
		CONTRACT NO. 62R29		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET M
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS31451\02R19-SHT-SUE-86.DGN

exp.

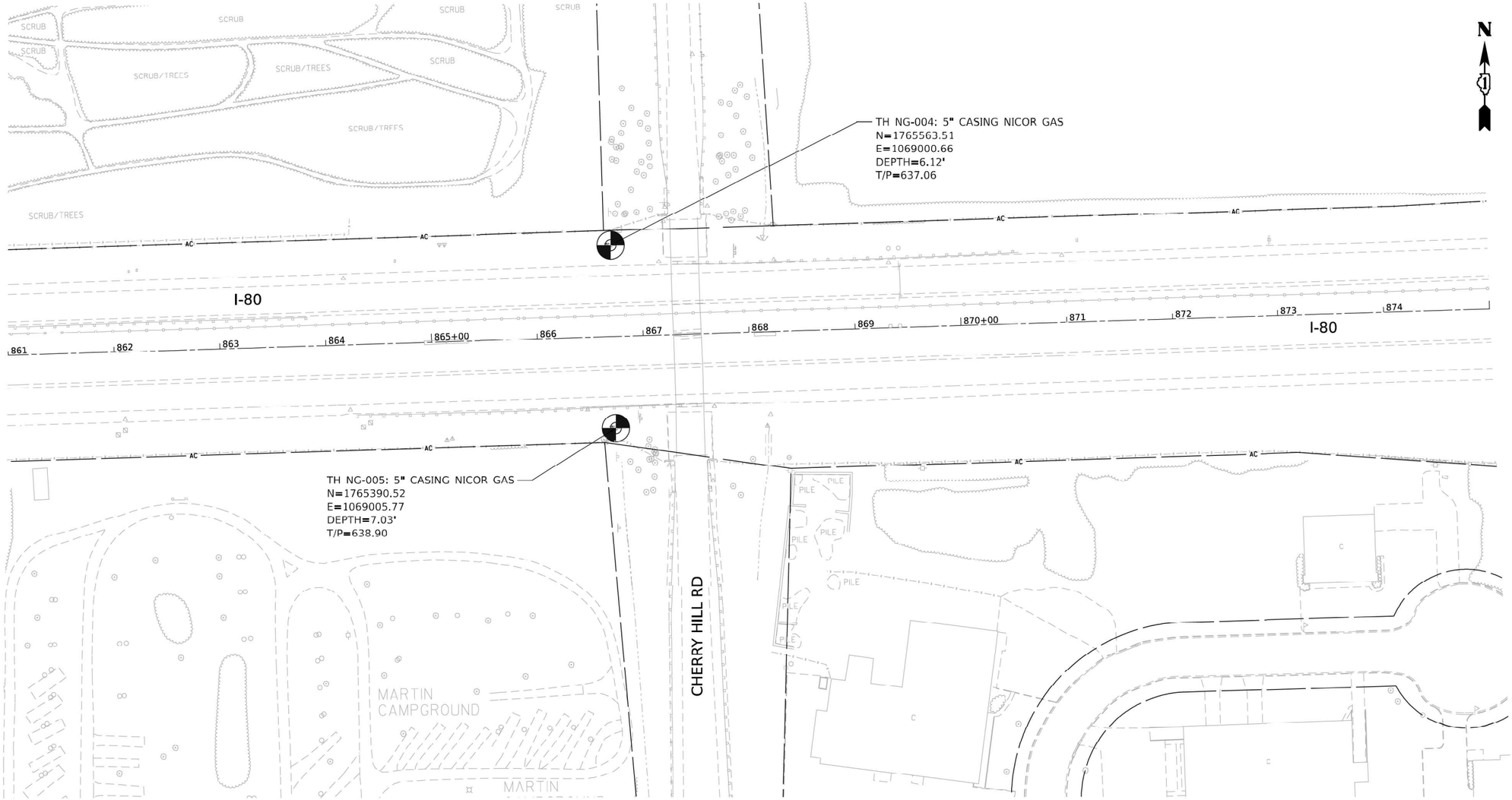
USER NAME = SALASL		DESIGNED -	CMA	REVISED -	
		DRAWN -	CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED -	BRH	REVISED -	
PLOT DATE = 10/14/2025		DATE -	8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	221
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



UTILITY LINE LEGEND

- EXISTING UNDERGROUND TELEPHONE
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND GAS
- EXISTING UNDERGROUND CABLE TV
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING AERIAL LINE
- EOGI — END OF SURFACE GEOPHYSICAL INFORMATION
- T/P — TOP OF UTILITY PIPE (N/A)
- ED — ELECTRONIC DEPTH (IN FEET)
- PP — POWER POLE
- QUALITY LEVEL A (QLA) TEST HOLE COMPLETED

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICTED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL A (QLA) ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 12TH DAY OF OCTOBER, 2022 AND THE 19TH DAY OF DECEMBER, 2022.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THE 6TH DAY OF JANUARY A.D., 2023. CHICAGO, IL.

THOMAS A. SANDERSON 062-054022 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022 MY LICENSE EXPIRES 11/30/2023

SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 30TH, 2021.
2. SUE QLA DATA WAS ONLY REQUESTED AT THE LOCATIONS SHOWN, THIS IS NOT A COMPLETE UTILITY INVESTIGATION OF THE AREA.
3. ELECTRONIC DEPTH INFORMATION, IF SHOWN FOR LEVEL B LINES, IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.

0 50 100 150
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: $FILES$

AMERICAN SURVEYING & ENGINEERING, P.C.

USER NAME = $USER$		DESIGNED -	MM	REVISED -	
		DRAWN -	MM	REVISED -	
PLOT SCALE = $SCALE$		CHECKED -	TS	REVISED -	
PLOT DATE = $DATE$		DATE =	1/3/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM BRIGGS ST TO GOUGAR RD
QLA SUE STUDY PLAN

SCALE: 1"=50' | SHEET __ OF __ SHEETS | STA. ____ | TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	_____	WILL	4	3
		CONTRACT NO. 62R29		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01(DMS31451)62R19-SHT-SUE-87.DGN

exp.

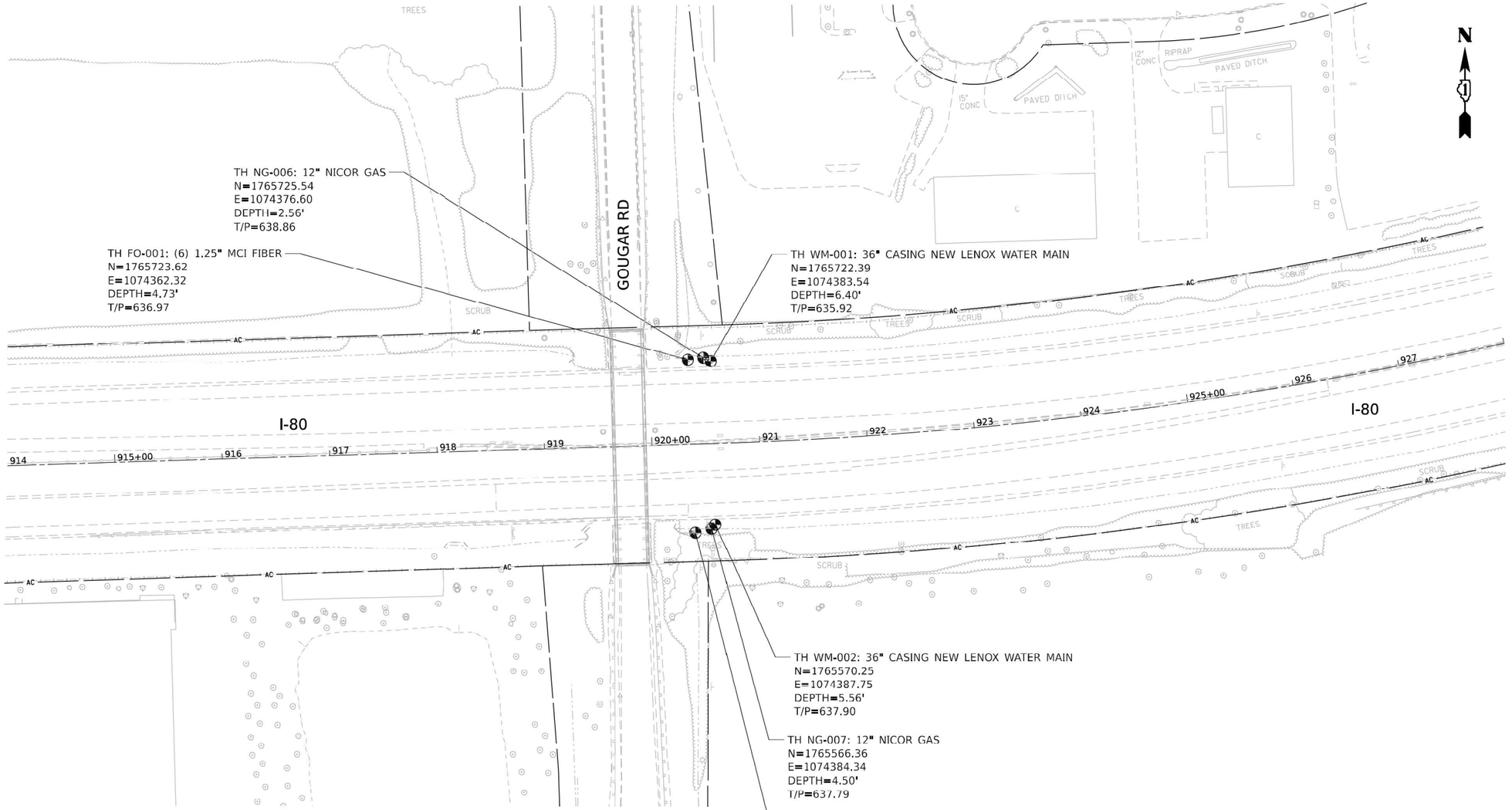
USER NAME = SALASL		DESIGNED -	CMA	REVISED -	
		DRAWN -	CMA	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED -	BRH	REVISED -	
PLOT DATE = 10/14/2025		DATE -	8/22/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	222
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	



UTILITY LINE LEGEND

T T	EXISTING UNDERGROUND TELEPHONE
W W	EXISTING UNDERGROUND WATER
E E	EXISTING UNDERGROUND ELECTRIC
G G	EXISTING UNDERGROUND GAS
CTV CTV	EXISTING UNDERGROUND CABLE TV
FO FO	EXISTING UNDERGROUND FIBER OPTIC
A A	EXISTING AERIAL LINE
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL A (QLA) ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 12TH DAY OF OCTOBER, 2022 AND THE 19TH DAY OF DECEMBER, 2022.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THE 6TH DAY OF JANUARY A.D., 2023, CHICAGO, IL.

THOMAS A. SANDERSON 062-054022 LICENCED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON • ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 30TH, 2021.
2. SUE QLA DATA WAS ONLY REQUESTED AT THE LOCATIONS SHOWN, THIS IS NOT A COMPLETE UTILITY INVESTIGATION OF THE AREA.
3. ELECTRONIC DEPTH INFORMATION, IF SHOWN FOR LEVEL B LINES, IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.

0 50 100 150
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: $FILES

AMERICAN SURVEYING & ENGINEERING, P.C.

USER NAME = $USER$		DESIGNED - MM		REVISED -	
		DRAWN - MM		REVISED -	
PLOT SCALE = $SCALE$		CHECKED - TS		REVISED -	
PLOT DATE = $DATE$		DATE - 1/3/2023		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM BRIGGS ST TO GOUGAR RD
QLA SUE STUDY PLAN

SCALE: 1"=50' | SHEET __ OF __ SHEETS | STA. ____ | TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	____	WILL	4	4
		CONTRACT NO. 62R29		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET M
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01(DMS)314516\2R19-SHT-SUE-88.DGN

exp.

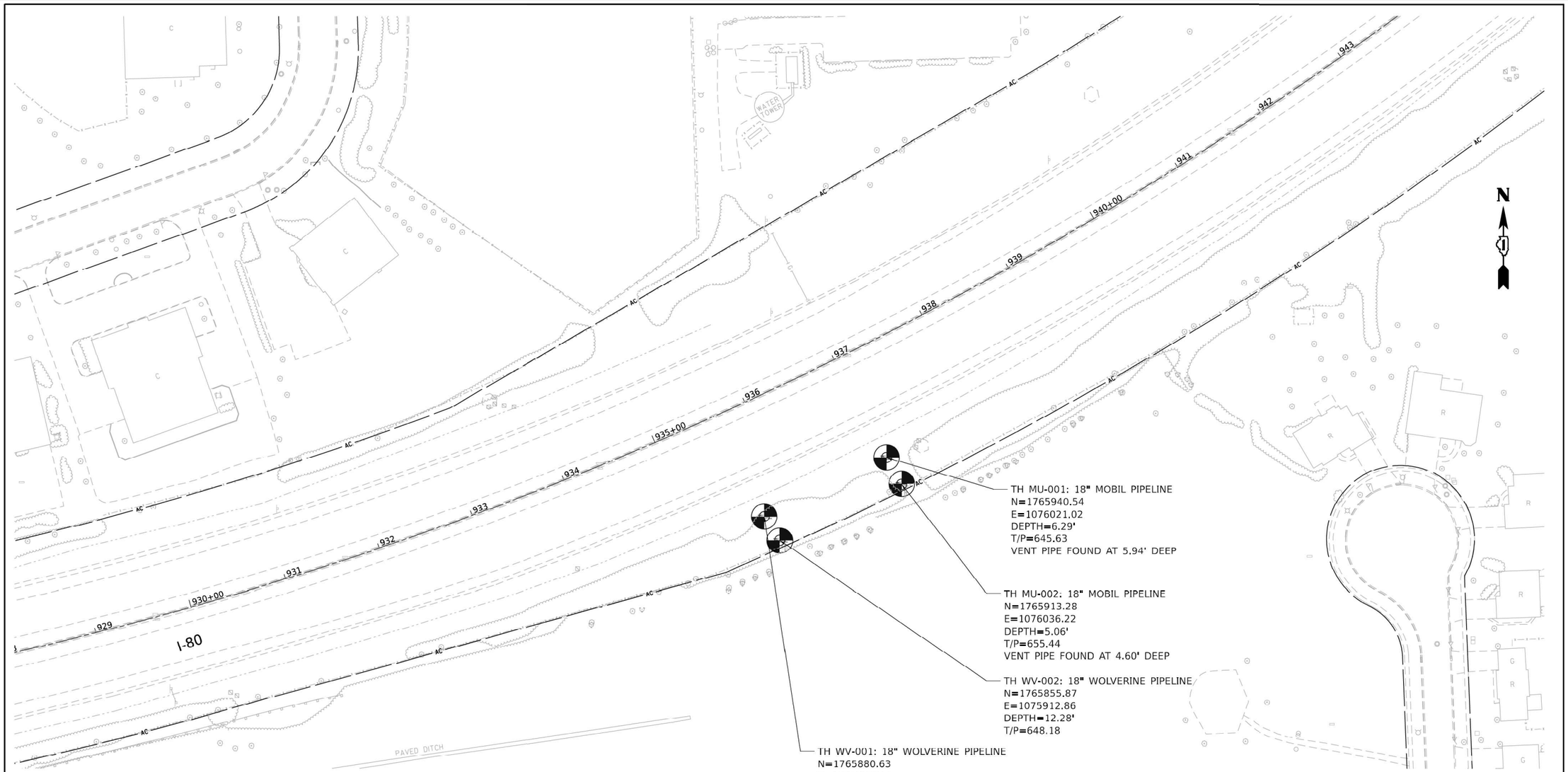
USER NAME = SALASL		DESIGNED - CMA		REVISED -	
		DRAWN - CMA		REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	223
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	



UTILITY LINE LEGEND

T T	EXISTING UNDERGROUND TELEPHONE
W W	EXISTING UNDERGROUND WATER
E E	EXISTING UNDERGROUND ELECTRIC
G G	EXISTING UNDERGROUND GAS
CTV CTV	EXISTING UNDERGROUND CABLE TV
FO FO	EXISTING UNDERGROUND FIBER OPTIC
OHU OHU	EXISTING AERIAL LINE
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
T/P	TOP OF UTILITY PIPE (N/A)
ED	ELECTRONIC DEPTH (IN FEET)
PP	POWER POLE
	QUALITY LEVEL A (QLA) TEST HOLE COMPLETED

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICTED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL A (QLA) ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 12TH DAY OF JANUARY, 2023 AND THE 2ND DAY OF FEBRUARY, 2023.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THE 6TH DAY OF FEBRUARY A.D., 2023. CHICAGO, IL.

THOMAS A. SANDERSON 062-054022 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2023

SUE NOTES

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 2ND, 2022.
2. SUE QLA DATA WAS ONLY REQUESTED AT THE LOCATIONS SHOWN, THIS IS NOT A COMPLETE UTILITY INVESTIGATION OF THE AREA.
3. ELECTRONIC DEPTH INFORMATION, IF SHOWN FOR LEVEL B LINES, IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.

0 50 100 150
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: $FILE$

AMERICAN SURVEYING & ENGINEERING, P.C.

USER NAME = $USER$		DESIGNED - CM		REVISED -	
		DRAWN - MM		REVISED -	
PLOT SCALE = $SCALE$		CHECKED - TS		REVISED -	
PLOT DATE = $DATE$		DATE - 2/6/2023		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 EAST OF GOUGAR RD
QLA SUE STUDY PLAN

SCALE: 1"=50' | SHEET __ OF __ SHEETS | STA. ____ | TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	_____	WILL	1	1
		CONTRACT NO. 62R29		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYS\TEMS\PW LOCAL\TRANSYSTEMS-PW-011OMS3145116218-SHT-SUE-89.DGN

exp.

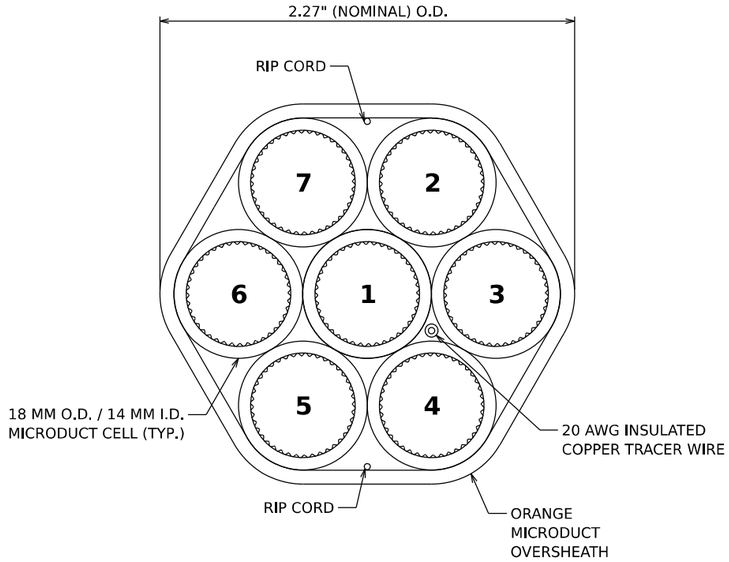
USER NAME = SALASL		DESIGNED - CMA		REVISED -	
		DRAWN - CMA		REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED - BRH		REVISED -	
PLOT DATE = 10/14/2025		DATE - 8/22/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
SUE UTILITIES

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	553	224
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	



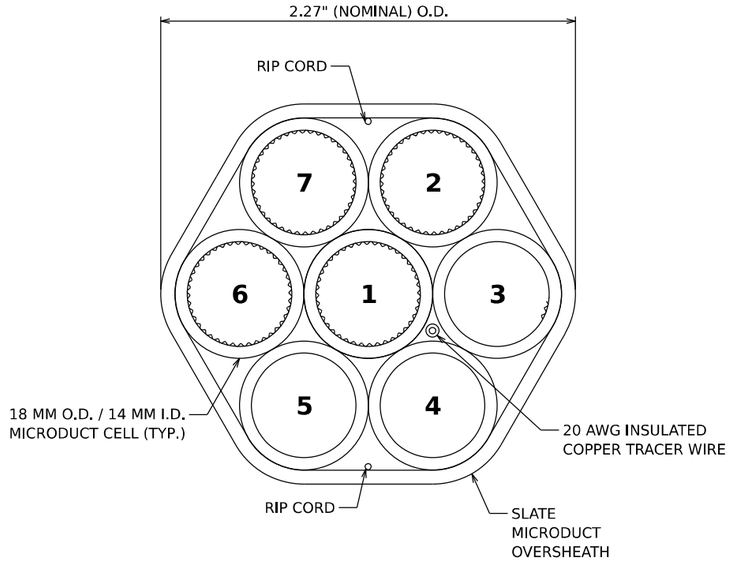
IDOT MICRODUCT DETAIL

N.T.S.

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	TCF-IE-XX-ZZZ*
2	ORANGE	DCF-IE-XX-ZZZ*
3	GREEN	SPARE**
4	BROWN	SPARE**
5	GREY	SPARE**
6	WHITE	SPARE**
7	RED	SPARE

*XX = EB OR WB; ZZZ = FIBER OPTIC CABLE SEGMENT DESIGNATION (SEE ITS PLANS)
**ADDITIONAL FIBER OPTIC CABLES WILL BE INSTALLED IN THE MICRODUCT ROUTING IN/OUT OF THE PROPOSED I-80/I-55 COMMUNICATIONS HUT.

IDOT MICRODUCT CELL INFORMATION



THIRD PARTY MICRODUCT DETAIL

N.T.S.

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	TCF-IE-TP-ZZZ*
2	ORANGE	SPARE
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

*ZZZ = FIBER OPTIC CABLE SEGMENT DESIGNATION (SEE ITS PLANS)

THIRD PARTY MICRODUCT CELL INFORMATION

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

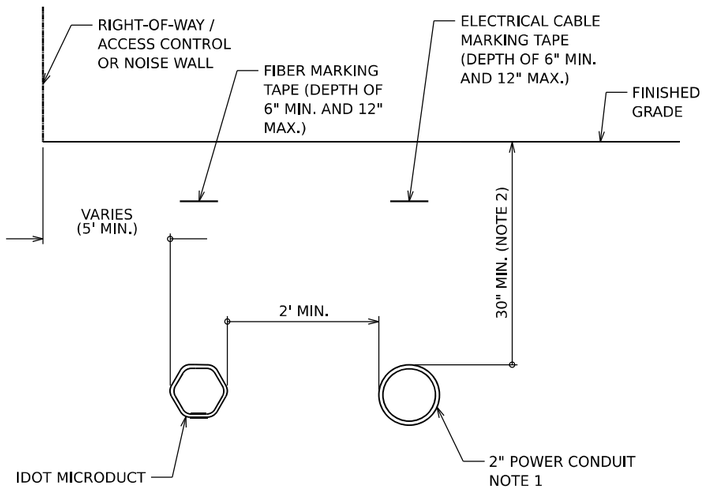
USER NAME = SALASL	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - JNR	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	225
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01(DMS32656)62R19-SHT-ITS-DET-07.DGN

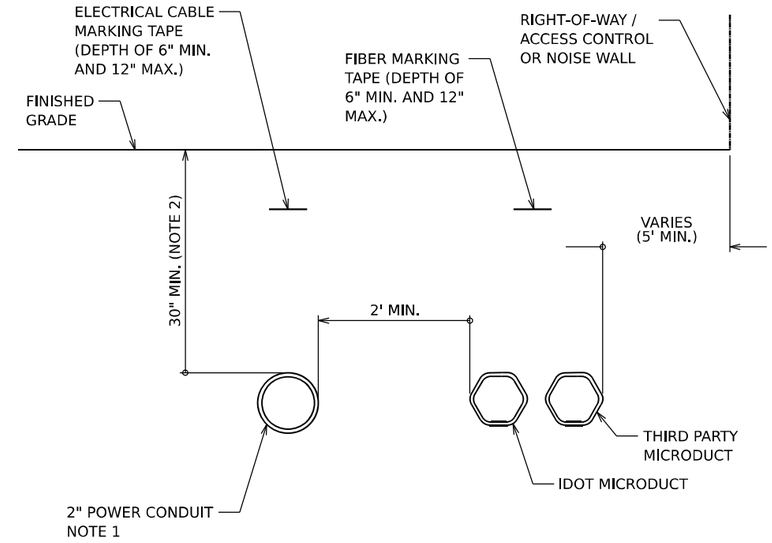


I-80 WESTBOUND TYPICAL CONDUIT SECTION

N.T.S.

NOTES
1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.

2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO: ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.

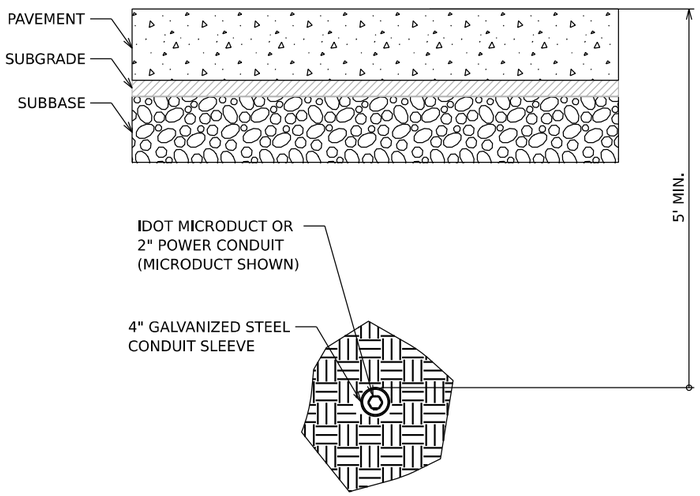


I-80 EASTBOUND TYPICAL CONDUIT SECTION

N.T.S.

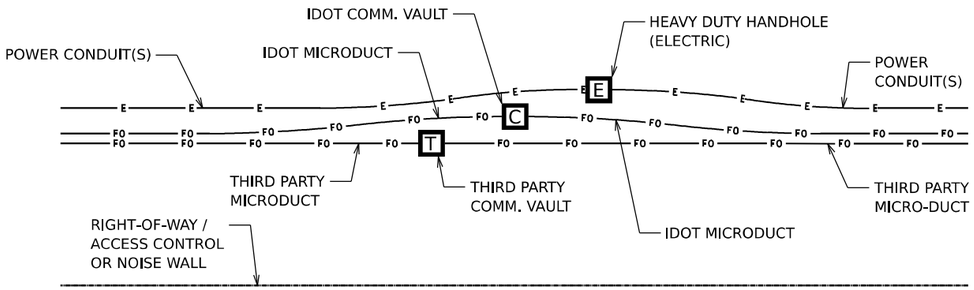
NOTES
1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.

2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO: ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



BORED CONDUIT UNDER ROADWAY

N.T.S.



TYPICAL CONDUIT ROUTING AT HANDHOLES

N.T.S.

NOTES
1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION AND ROADWAY DIRECTION. EASTBOUND DIRECTION SHOWN ABOVE WITH POWER CONDUIT, IDOT MICRODUCT, AND THIRD PARTY MICRODUCT.

2. IDOT MICRODUCT SHALL ENTER IDOT COMMUNICATIONS VAULTS ONLY.

3. THIRD PARTY MICRODUCT SHALL ENTER THIRD PARTY COMMUNICATIONS VAULTS ONLY.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - DJM	REVISED -	
	DRAWN - JNR	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	226
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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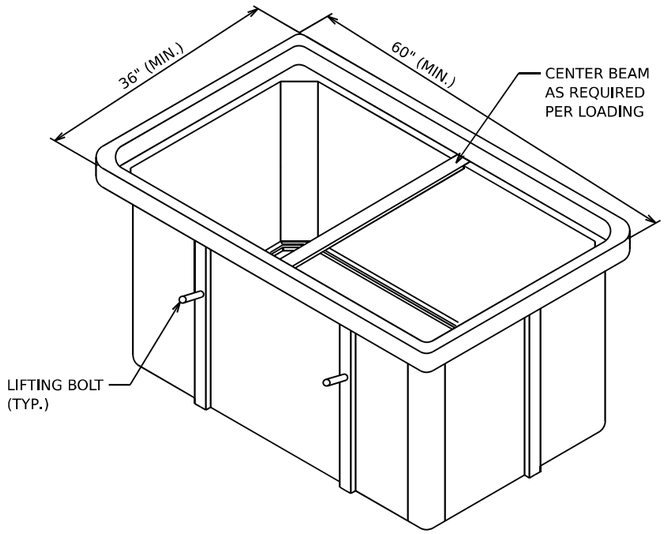
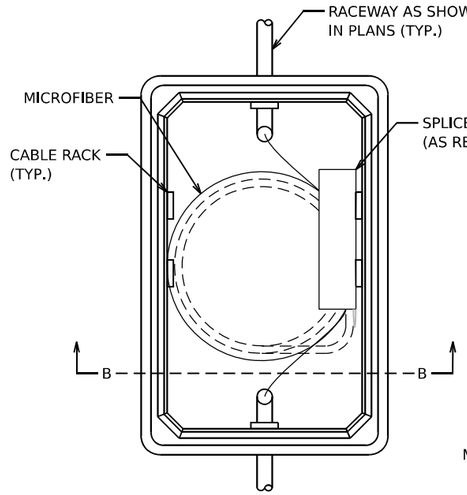


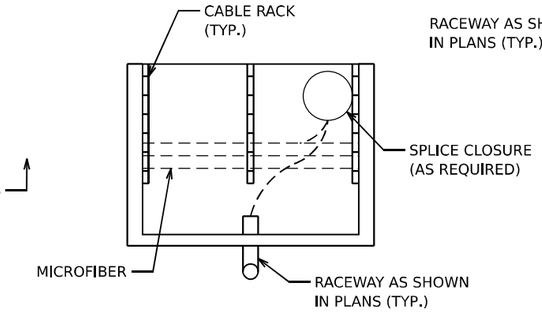
VAULT BOX ISOMETRIC VIEW

N.T.S.



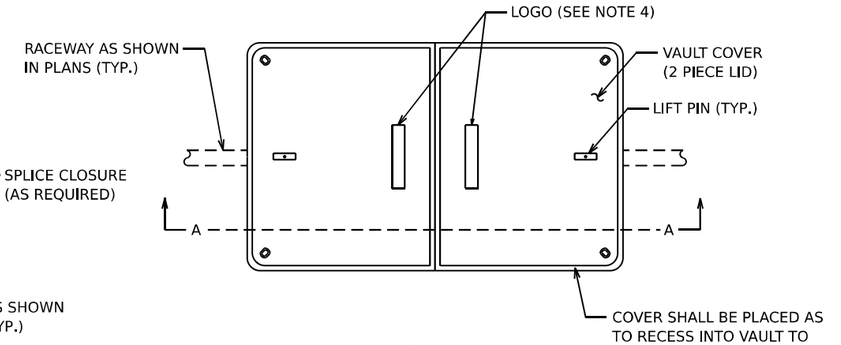
TOP VIEW

N.T.S.



SECTION B-B

N.T.S.

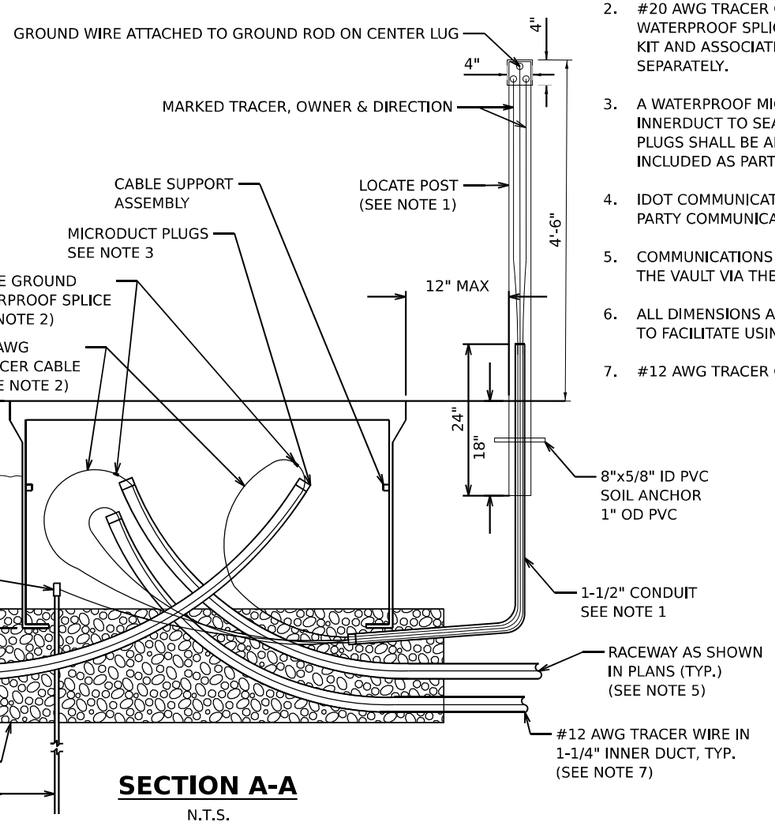


PLAN

N.T.S.

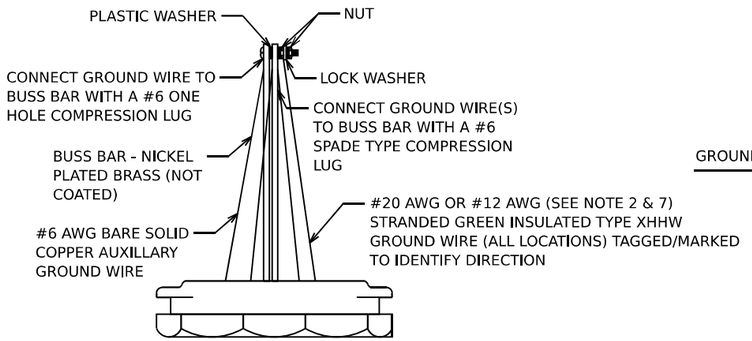
NOTES:

1. GROUND ROD, 1-1/2" CONDUIT, #6 AWG GROUND WIRE, LOCATE POST AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY. ALL MATERIALS FOR MECHANICAL CONNECTION SHALL BE UL LISTED AND INSTALLED PER NEC ARTICLE 250.
2. #20 AWG TRACER CABLE SHALL BE SPLICED TO THE #20 AWG TRACER CABLE IN THE MICRODUCT USING A WATERPROOF SPLICE KIT AS RECOMENDED BY THE MICRODUCT MANUFACTURER. THE #20 AWG WIRE, SPLICE KIT AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY.
3. A WATERPROOF MICRODUCT PLUG(S) OR INNERDUCT PLUG SHALL BE INSTALLED AROUND EACH UNUSED MICRODUCT OR INNERDUCT TO SEAL AROUND THE DUCT FOR ALL MICRODUCTS OR INNERDUCTS COMING INTO THE VAULT. THE PLUGS SHALL BE APPROPRIATELY SIZED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IS INCLUDED AS PART OF THE MICRODUCT OR INNERDUCT PAY ITEM AND WILL NOT BE PAID SEPARATELY.
4. IDOT COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT" AND THIRD PARTY COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT - DoIT".
5. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE. ALL CONDUITS AS SHOWN ON THE PLANS SHALL ENTER THE VAULT VIA THE OPEN BASE.
6. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE VAULT MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.
7. #12 AWG TRACER CABLE SHALL BE CONNECTED DIRECTLY TO LOCATE POST TOP HAT BOND PLATE.



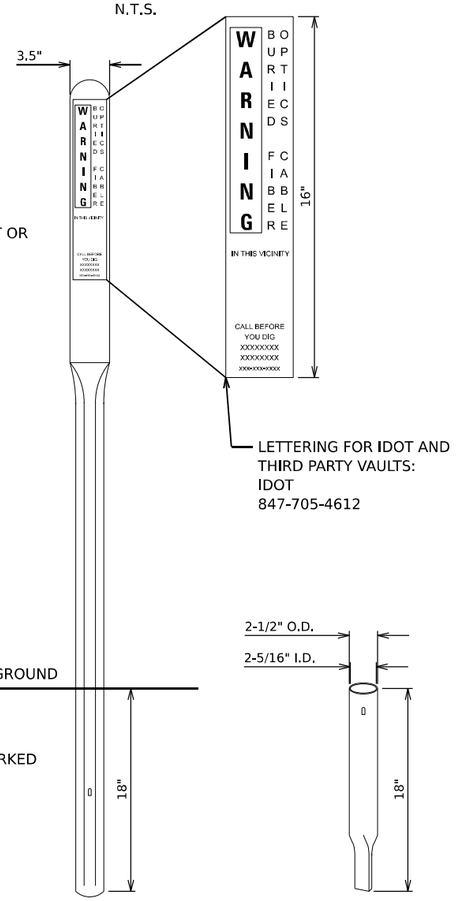
SECTION A-A

N.T.S.



LOCATE POST TOP HAT BOND PLATE

N.T.S.



POST

N.T.S.

SOIL ANCHOR

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - DJM	REVISED -	
	DRAWN - JNR	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

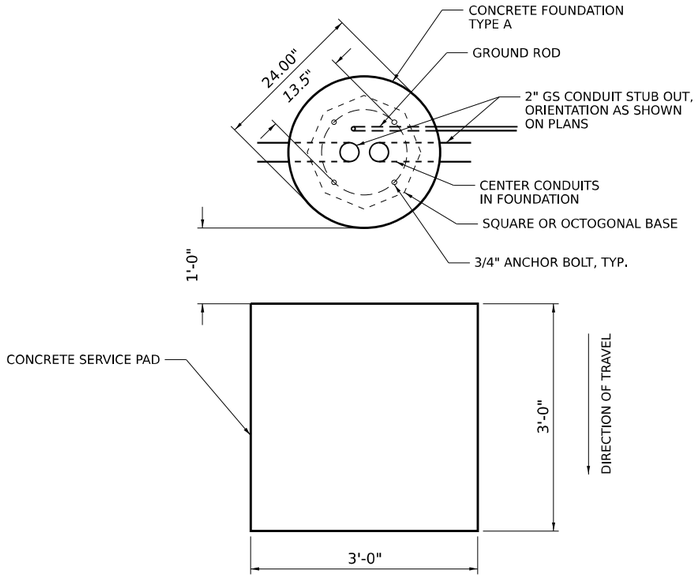
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

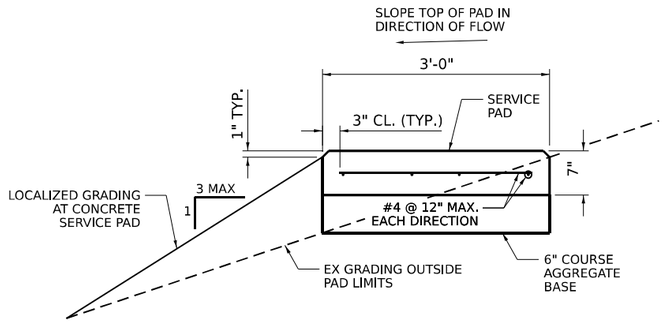
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	227
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\ITRANSYSTEMS\PW LOCAL\ITRANSYSTEMS-PW-01\DMS3265\6216\19-SHT-ITS-DET-09.DGN



TOP VIEW
PROPOSED TYPE A FOUNDATION FOR DISCONNECT SWITCH

N.T.S.



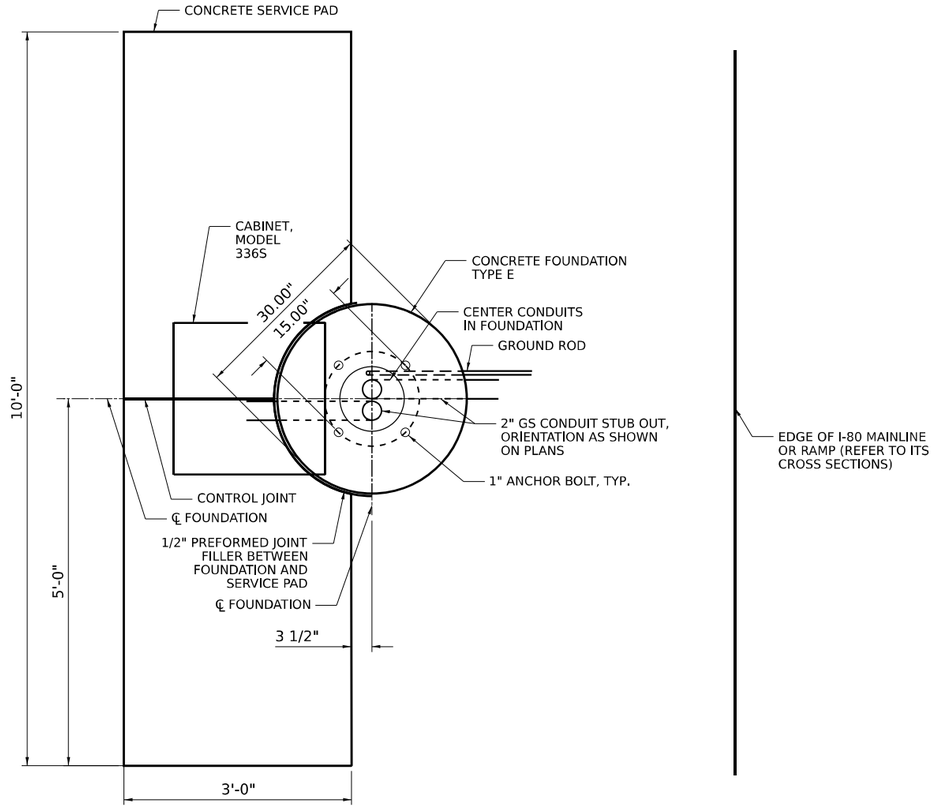
CONCRETE SERVICE PAD SECTION

N.T.S.

NOTES

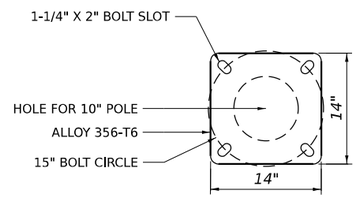
1. TOP VIEW FOR CONCRETE FOUNDATIONS, TYPE A AND E SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY ON CONDUITS ENERTING FOUNDATION, SERVICE PAD, AND ANOCHOR BOLT CIRCLE DIMENSIONS REQUIRED. FOR FURTHER FOUNDATION DETAILS, SEE HIGHWAY STANDARD 878001-11 (CONCRETE FOUNDATION DETAILS).

2. CONTRACTOR TO COORDINATE ANCHOR ROD BOLT CIRCLE WITH PROPOSED POLE STRUCTURE.



TYPE E FOUNDATION PLAN VIEW

N.T.S.



CCTV POLE BASE PLATE DETAIL 15" BOLT CIRCLE

N.T.S.

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3265\6276219-SHT-ITS-DET-10.DGN

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL
PLOT SCALE = 0.16666667 ' / IN.
PLOT DATE = 11/12/2025

DESIGNED - DJM
DRAWN - JNR
CHECKED - DJM
DATE - 11/12/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	228
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 1" MINIMUM CHAMFER.
2. COMPACTED SOIL SHALL BE PLACED TO BE LEVEL WITH THE SERVICE PAD. THE CONTRACTOR MAY USE EXCAVATED SOIL FROM PLACING THE PAD'S AGGREGATE BASE FOR GRADING PURPOSES WITH APPROVAL OF THE ENGINEER.
3. SOIL EXCAVATED FOR THE PURPOSE OF MAINTAINING A STABLE WORKING SLOPE WHILE INSTALLING THE SERVICE PAD SHALL BE REPLACED. BACKFILL SHALL BE EARTH WHICH IS FREE FROM DEBRIS, CINDERS, AND ROCKS MEASURING 2" OR GREATER IN DIAMETER. IN THE EVENT THAT EXCAVATED MATERIAL IS UNSUITABLE FOR USE AS BACKFILL, THE CONTRACTOR SHALL USE A CLEAN, NATURAL SAND. THIS SUBSTITUTE BACKFILL SHALL BE INCIDENTAL TO THE SERVICE PAD INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY. ALL BACKFILL MATERIALS SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.
4. THE TOP SURFACE OF SOIL DISTURBED BY EXCAVATION FOR PLACING THE SERVICE PADS SHALL BE SEEDED AND PROTECTED WITH EROSION CONTROL MEASURES.
5. THE SURFACE OF THE SERVICE PADS SHALL BE BROOM FINISHED.
6. CUT REINFORCEMENT TO FIT AT CCTV CAMERA STRUCTURE FOUNDATION.

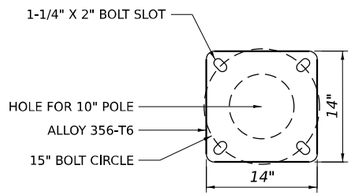
DESIGN STRESSES

CONCRETE

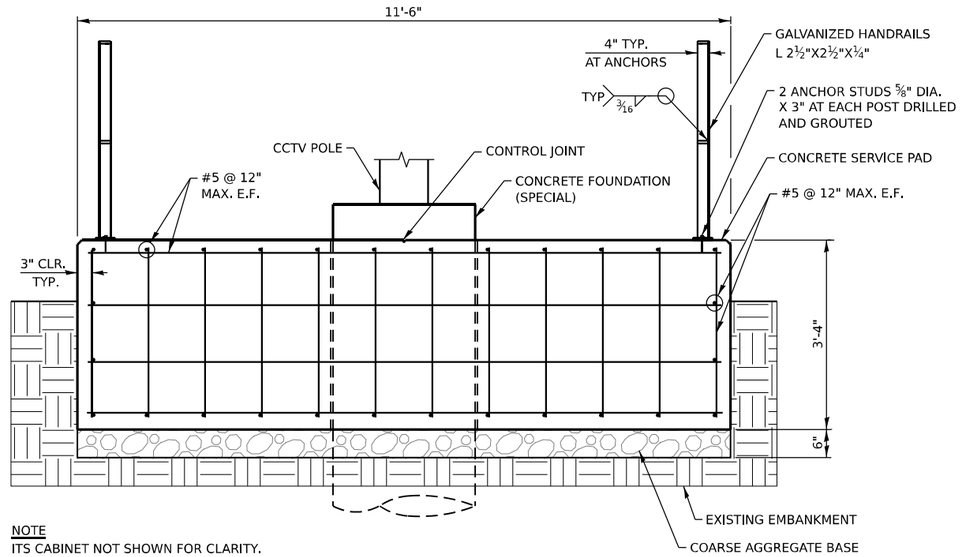
CAST-IN-PLACE: $f'c$ = 3,500 PSI AT 14 DAYS (CLASS SI)

STEEL

ASTM A615, GRADE 60 DEFORMED: Fy = 60,000 PSI (EPOXY COATED)

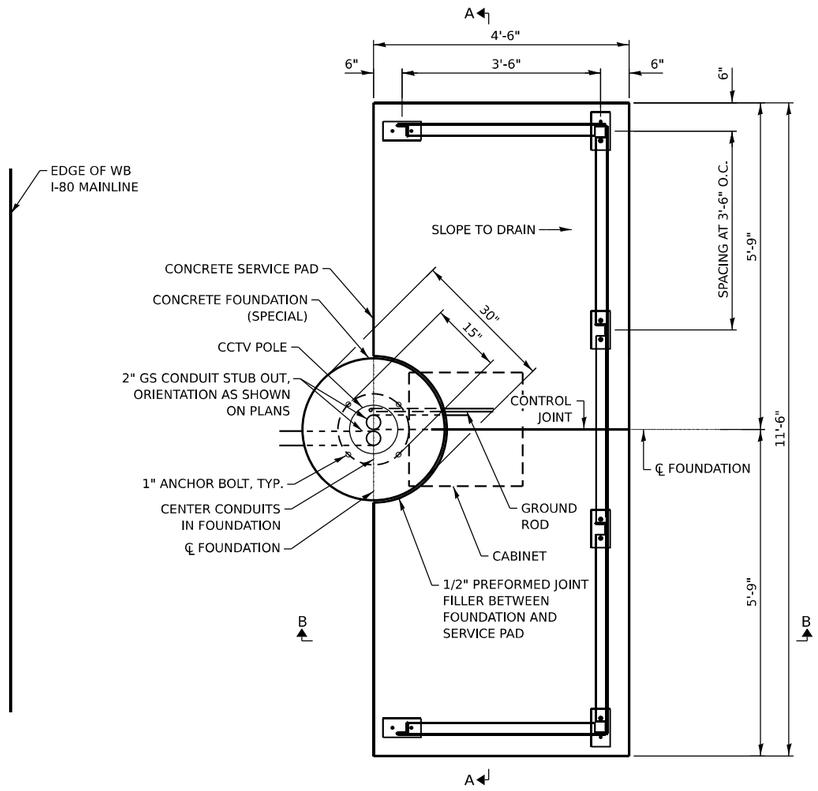


CCTV POLE BASE PLATE DETAIL
15" BOLT CIRCLE
N.T.S

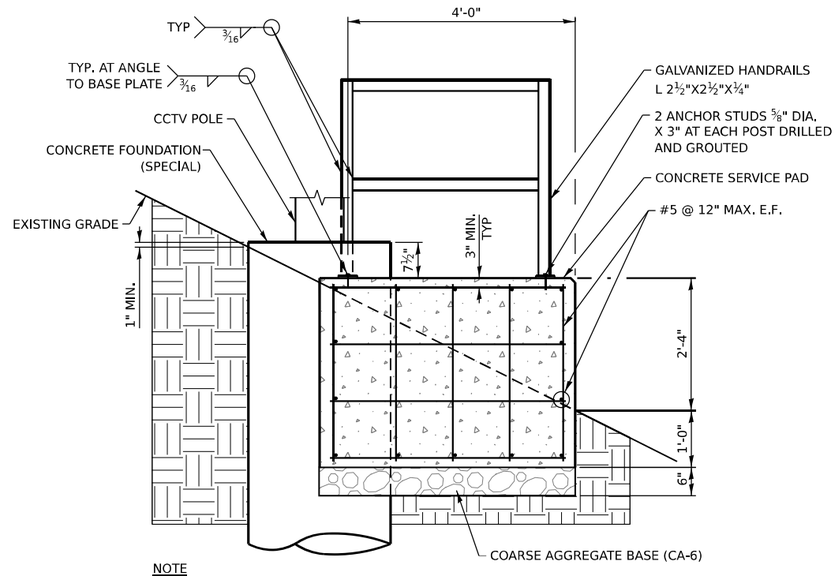


NOTE
ITS CABINET NOT SHOWN FOR CLARITY.

SECTION A-A
N.T.S



CONCRETE FOUNDATION (SPECIAL)
PLAN VIEW
N.T.S



NOTE
ITS CABINET NOT SHOWN FOR CLARITY.

SECTION B-B
N.T.S

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW2-01\D0MS32656\02R19-SHT-ITS-DET-11.DGN

exp.

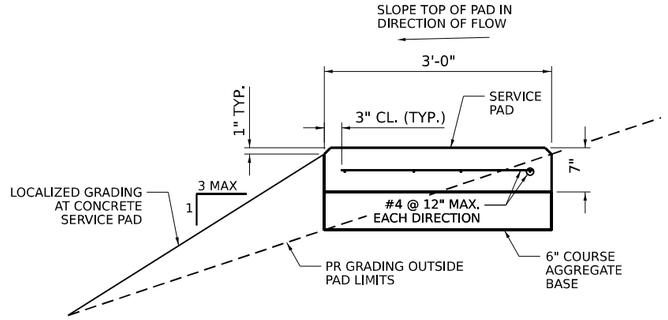
USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

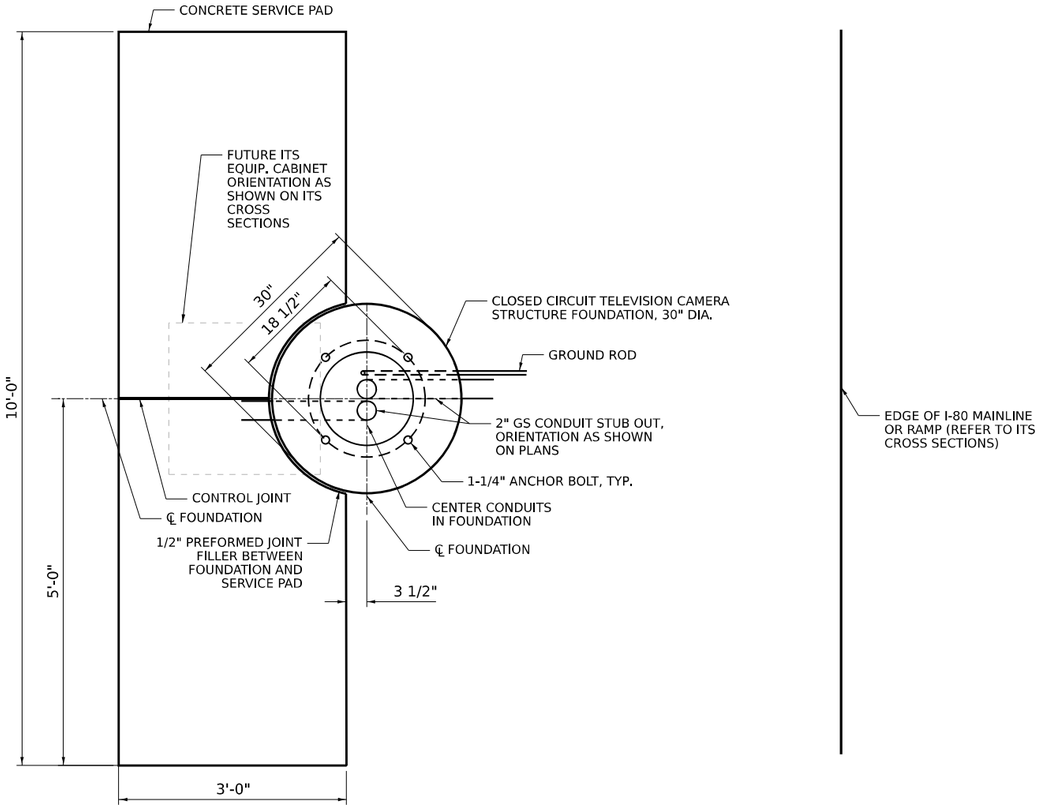
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	229
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			



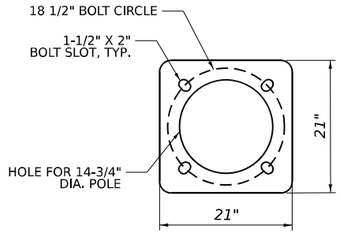
CONCRETE SERVICE PAD SECTION

N.T.S.



CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIA. PLAN VIEW

N.T.S.



CCTV POLE BASE PLATE DETAIL 18-1/2" BOLT CIRCLE

N.T.S.

NOTES

1. TOP VIEW FOR CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIA. SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY ON CONDUITS ENERTING FOUNDATION AND ANOCHOR BOLT SIZE/CIRCLE DIMENSIONS REQUIRED FOR FUTURE EQUIPMENT INSTALLATION. FOR FURTHER FOUNDATION DETAILS, SEE HIGHWAY STANDARD 878001-11 (CONCRETE FOUNDATION DETAILS).

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - DJM	REVISED -	
	DRAWN - JNR	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

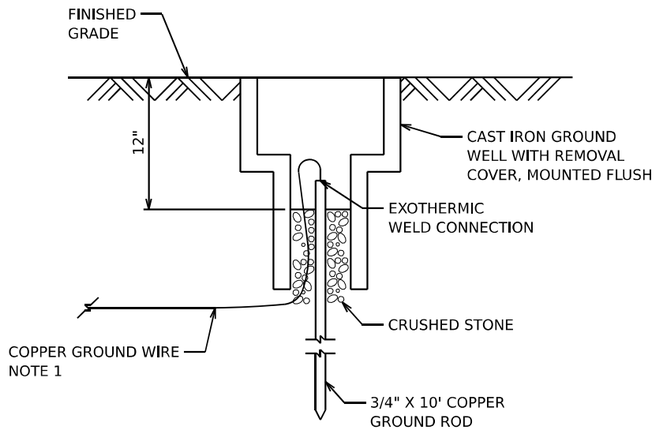
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

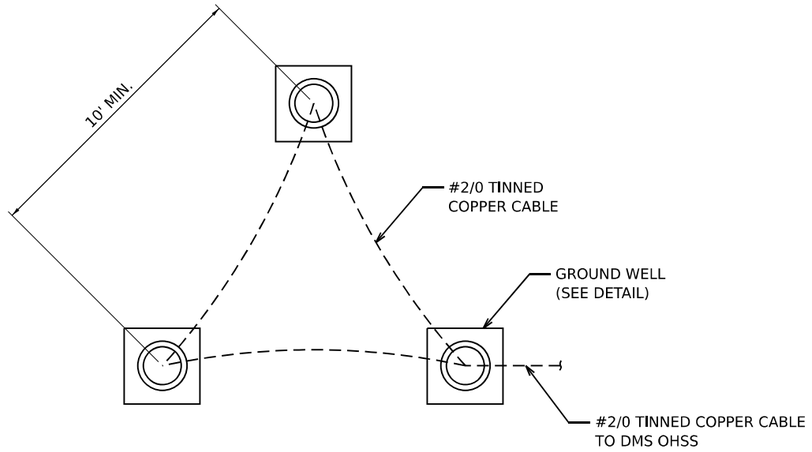
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	230
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-ITS-DET-12.DGN



GROUND WELL DETAIL

N.T.S.



GROUND TRIAD

N.T.S.

NOTES

1. USE #2 COPPER GROUND WIRE TO 334 CABINET OR TYPE A FOUNDATION
   USE #2/0 COPPER GROUND WIRE FOR DMS GROUNDING TRIAD.

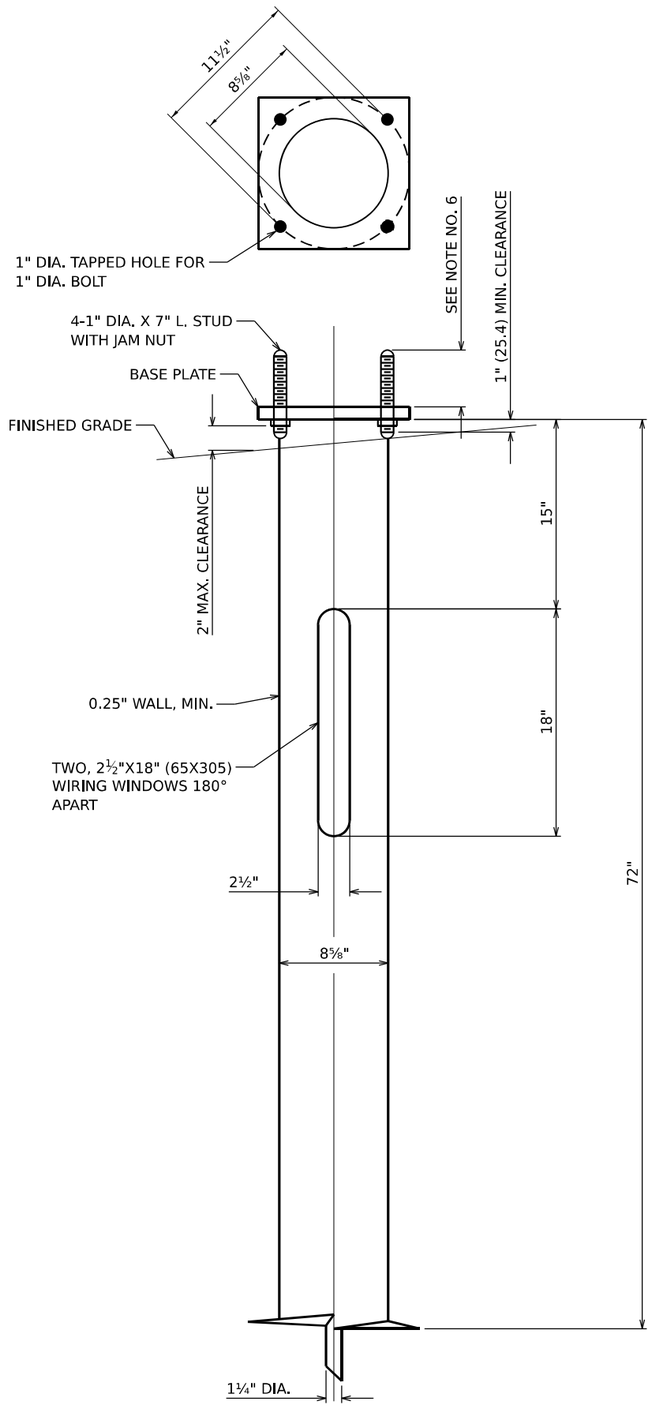
MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3265\62R19-SHT-ITS-DET-13.DGN

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = SALASL	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - JNR	REVISED -	
	PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	231
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL DIMENSION IN INCHES UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN ¼" FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT-LBS OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE THE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBERD SOIL PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT-LB. METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (±1°) AND THE HOLE CENTERLINE SHALL BE CONSCENTRIC (±0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (±0.125) AND IN LINE (±2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURER'S NAME AND DATE OF MANUFACTURE.

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT. (72")	12"X12"X1"

ITEM	MATERIAL REQUIREMENT
BASEPLATE	ASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS / STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

LIGHT POLE FOUNDATION, METAL, 11-1/2" BOLT CIRCLE, 8-5/8" X 72"

N.T.S.

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-ITS-DET-14.DGN

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

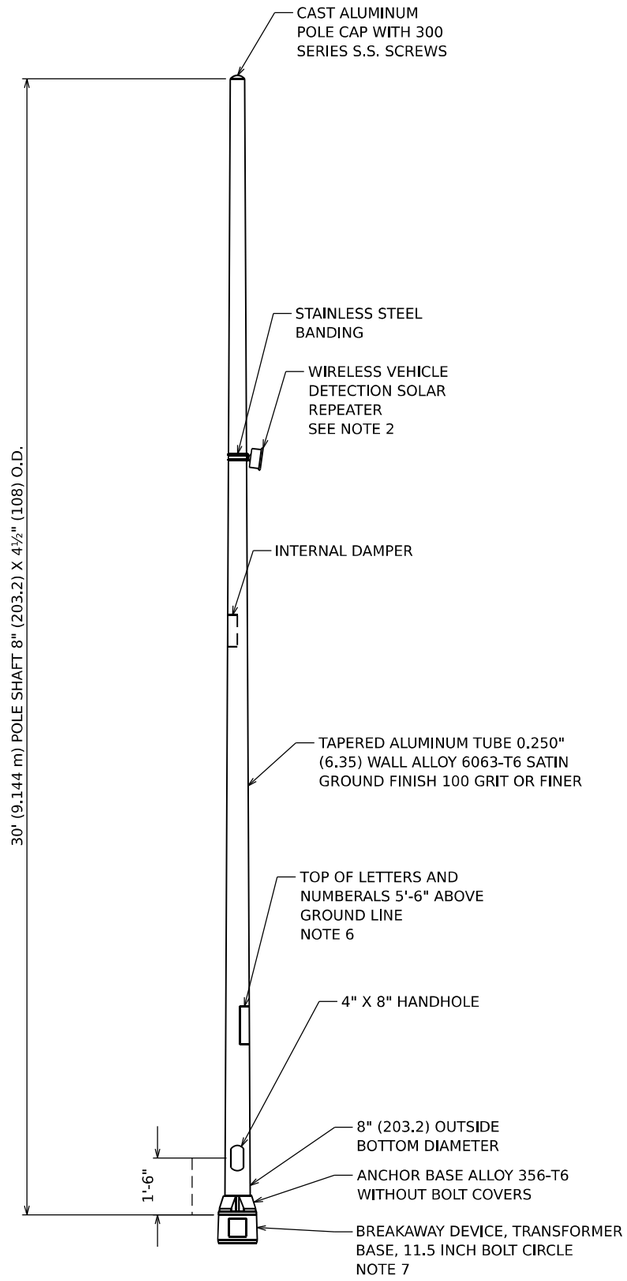
USER NAME = SALASL	DESIGNED - DJM	REVISED -	
	DRAWN - JNR	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

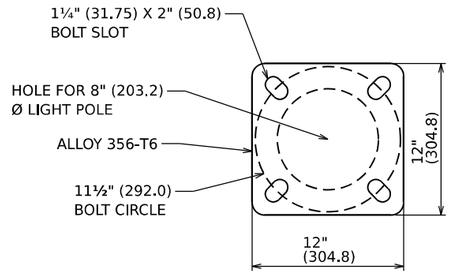
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	232
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



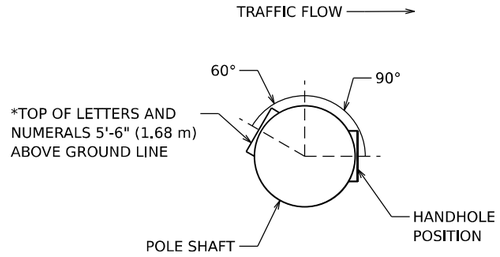
LIGHT POLE, SPECIAL, 30'

N.T.S.



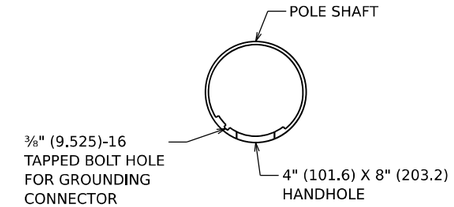
LIGHT POLE BASE PLATE DETAIL

N.T.S.



POSITION OF HANDHOLE AND POLE NUMBER

N.T.S.



HANDHOLE DETAIL

N.T.S.

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
3. THE LIGHT POLE SHALL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR SHALL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLE SHALL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
6. POLE LABELING SCHEME TO BE PROVIDED BY IDOT TSC.
7. BREAKAWAY COUPLING (PER ARTICLE 838 OF THE STANDARD SPECIFICATIONS) MAY BE USED IN LIEU OF BREAKAWAY DEVICE, TRANSFORMER-BASE, 11.5 INCH BOLT CIRCLE SUBJECT TO APPROVAL OF THE ENGINEER.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	233
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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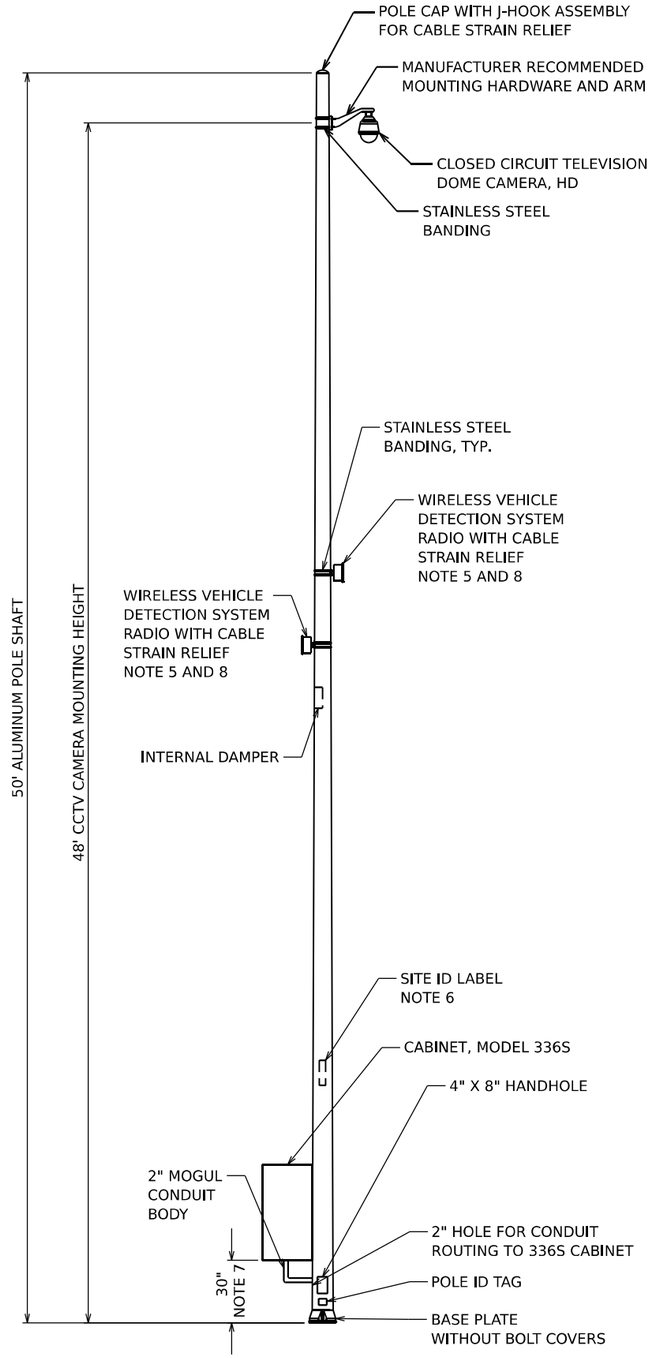
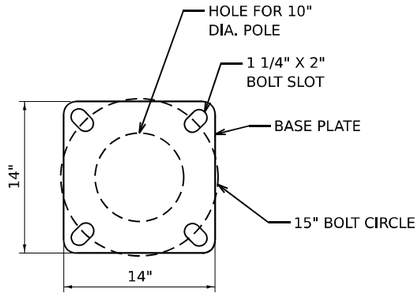


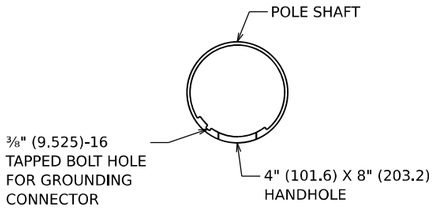
CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT

N.T.S.



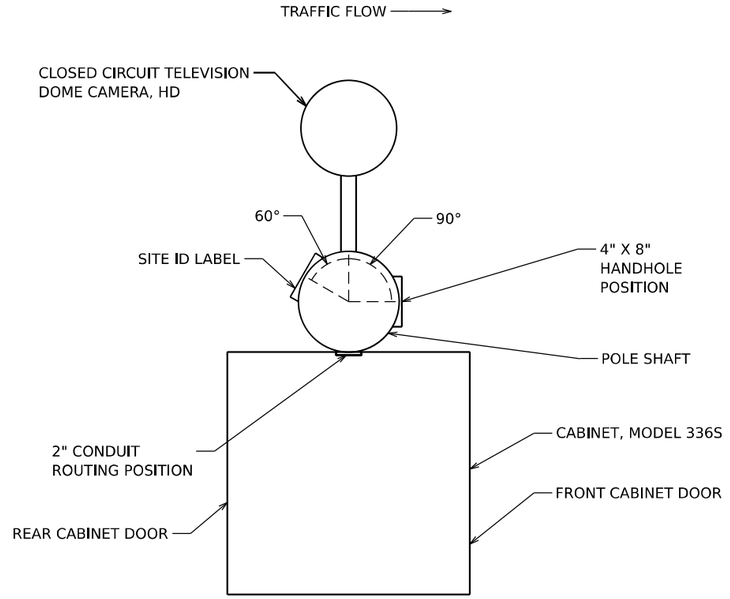
BASE PLATE DETAIL

N.T.S.



HANDHOLE DETAIL

N.T.S.



POSITION OF HANDHOLE, CABINET AND POLE NUMBER

N.T.S.

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE POLE STRUCTURE SHALL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
3. THE INSTALLING CONTRACTOR SHALL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
4. POLE SHALL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
5. MOUNTING HEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
6. CONFIRM POLE LABEL SCHEME WITH IDOT TSC PRIOR TO INSTALLATION.
7. AT SITE IE29B (STA. 756+00), THIS DIMENSION SHALL BE 24".
8. IF REQUIRED AT SITE, REFER TO ITS PLANS.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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	DRAWN - JNR	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	234
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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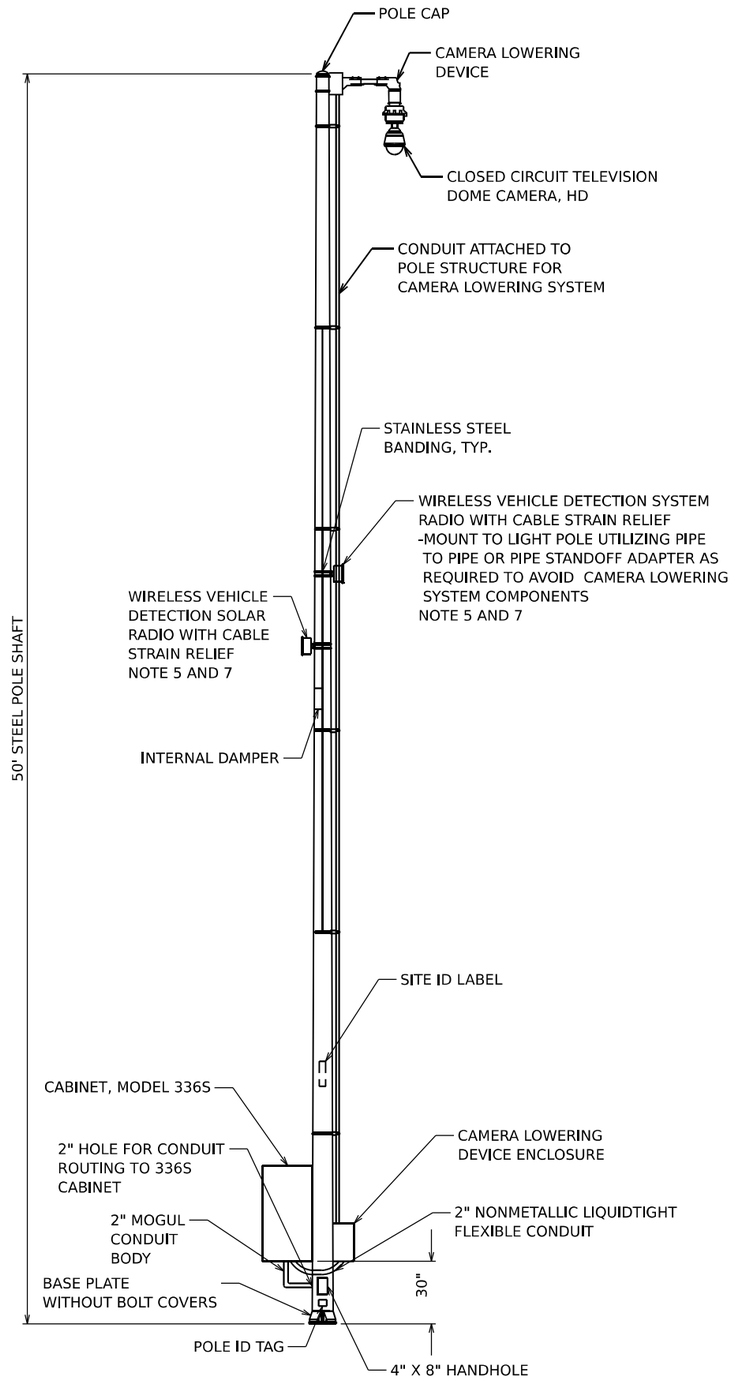
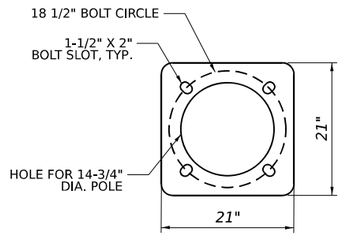


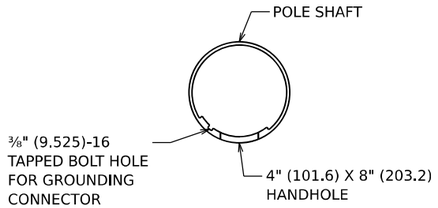
LIGHT POLE STEEL 50 FT. WITH CAMERA LOWERING SYSTEM

N.T.S.



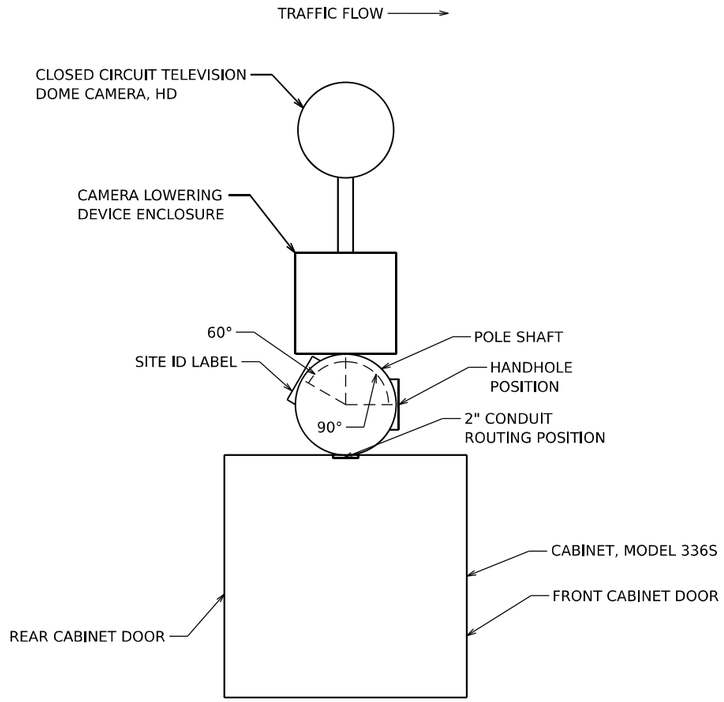
BASE PLATE DETAIL

N.T.S.



HANDHOLE DETAIL

N.T.S.



POSITION OF HANDHOLE, CABINET AND POLE NUMBER

N.T.S.

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE POLE STRUCTURE SHALL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
3. THE INSTALLING CONTRACTOR SHALL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
4. POLE SHALL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
5. MOUNTING HEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. SIDE-FIRE MOUNTING CONFIGURATION MAY BE REQUIRED DUE TO CAMERA LOWERING SYSTEM COMPONENTS.
6. CONFIRM POLE LABEL SCHEME WITH IDOT TSC PRIOR TO INSTALLATION.
7. IF REQUIRED, REFER TO ITS PLANS.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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PLOT SCALE = 0.166667 ' / IN.	CHECKED - DJM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	235
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
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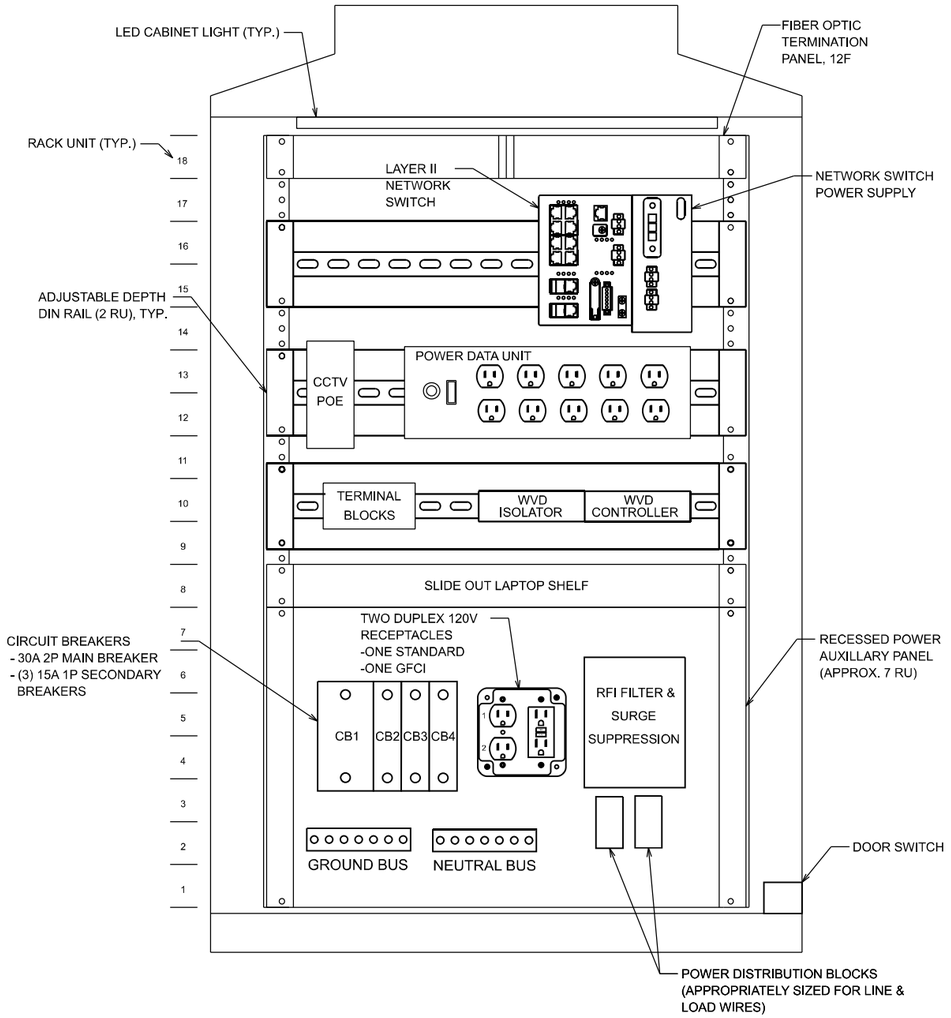
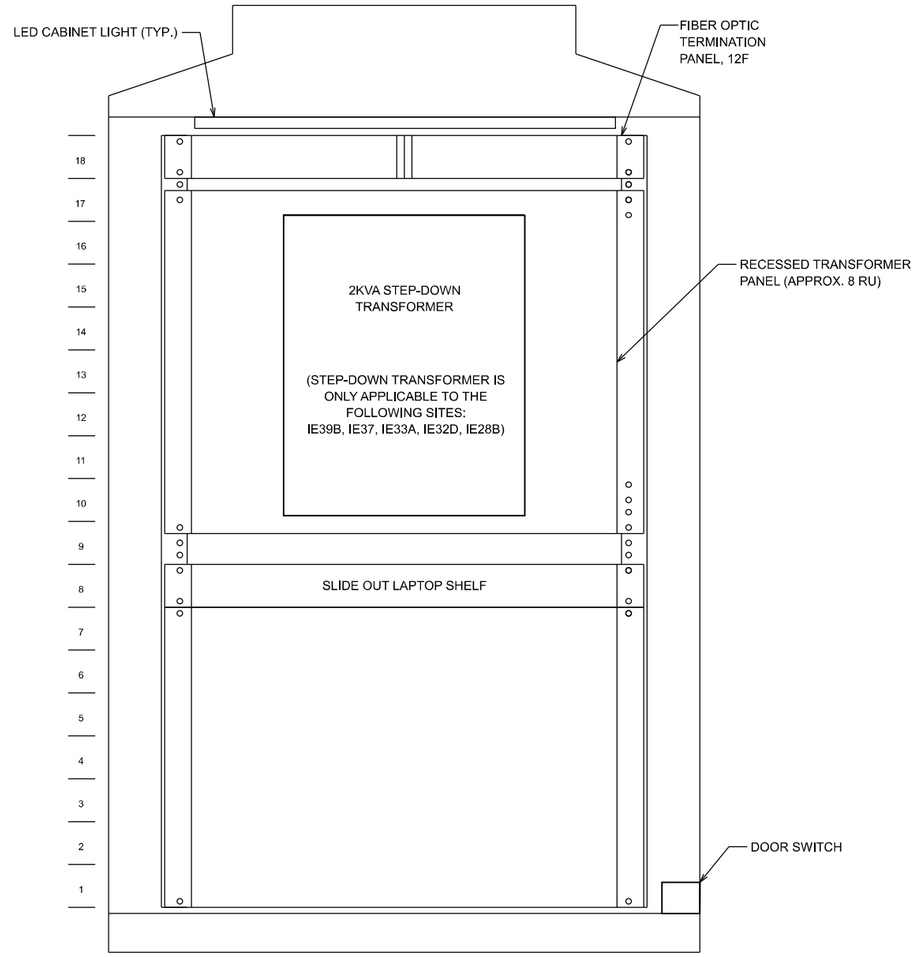


FRONT VIEW
(DOOR NOT SHOWN)
N.T.S.



REAR VIEW
(DOOR NOT SHOWN)
N.T.S.

336S SUGGESTED CABINET LAYOUT

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-ITS-DET-18.DGN

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

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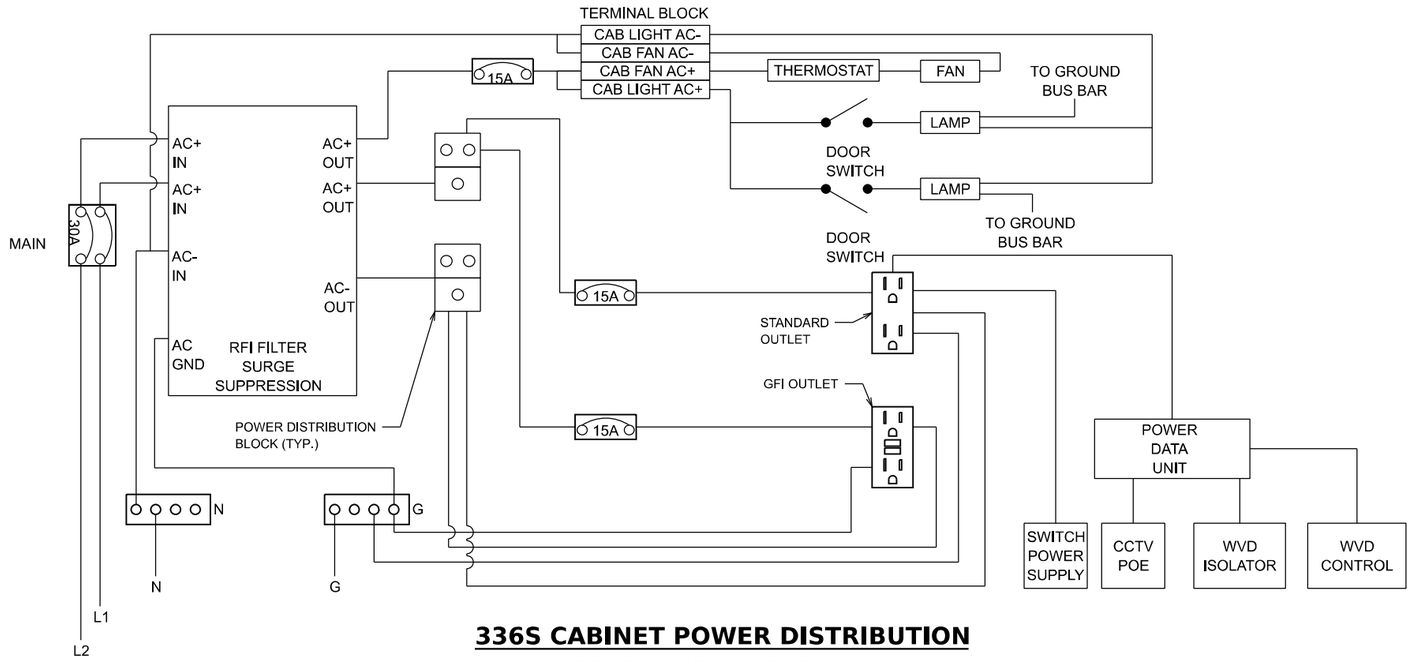
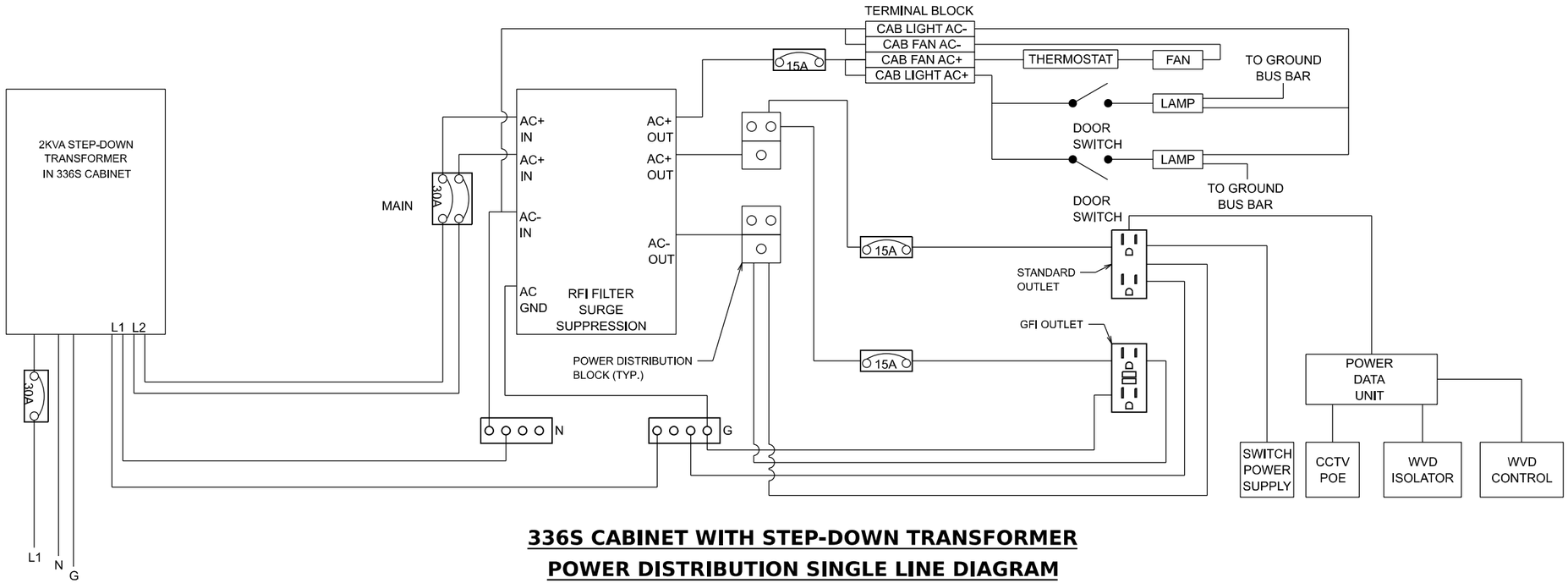
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



336S CABINET POWER DISTRIBUTION SINGLE LINE DIAGRAM



336S CABINET WITH STEP-DOWN TRANSFORMER POWER DISTRIBUTION SINGLE LINE DIAGRAM

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3265\62R19-SHT-ITS-DET-19.DGN

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - REL	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - WDS	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

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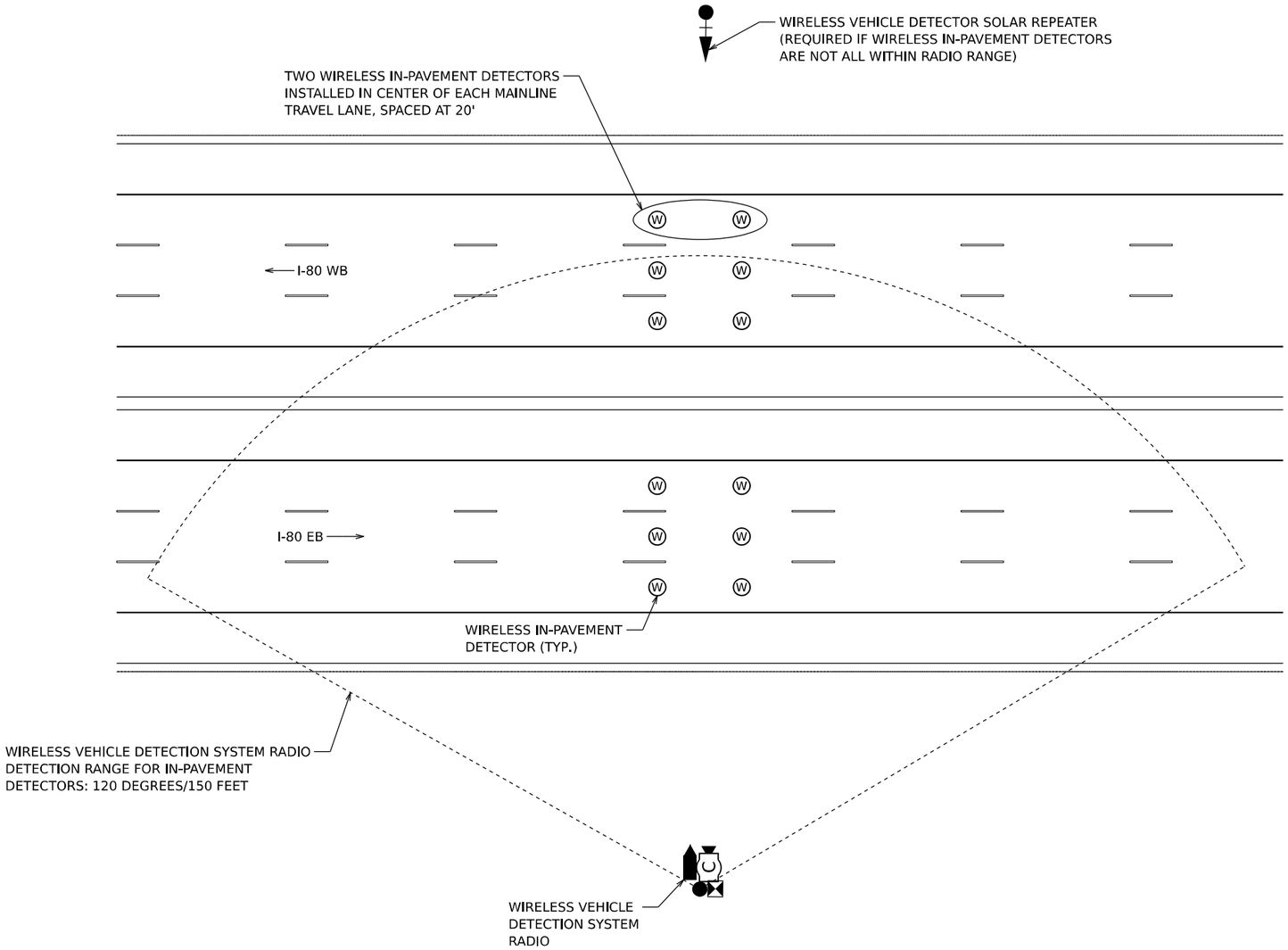
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



TYPICAL WIRELESS VEHICLE DETECTION SYSTEM DETAIL - MAINLINE DETECTION

N.T.S.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - REL	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

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		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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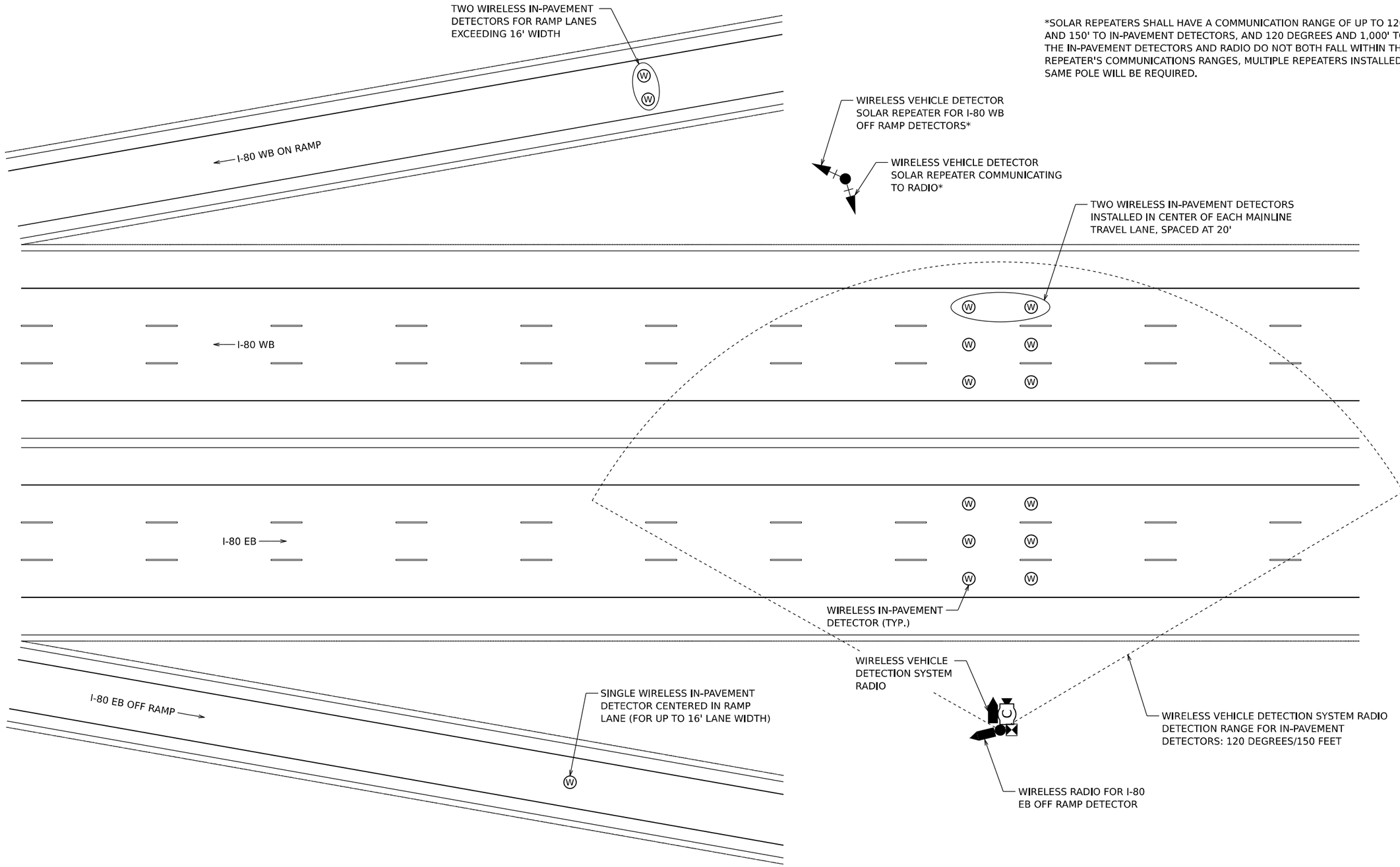
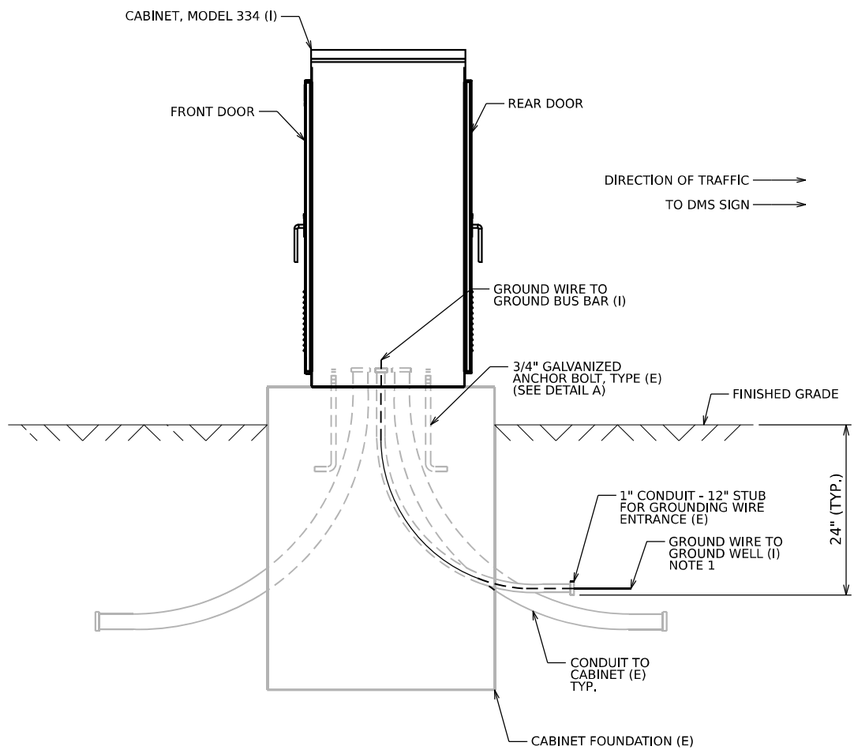


TYPICAL WIRELESS VEHICLE DETECTION SYSTEM DETAIL - MAINLINE DETECTION WITH RAMPS

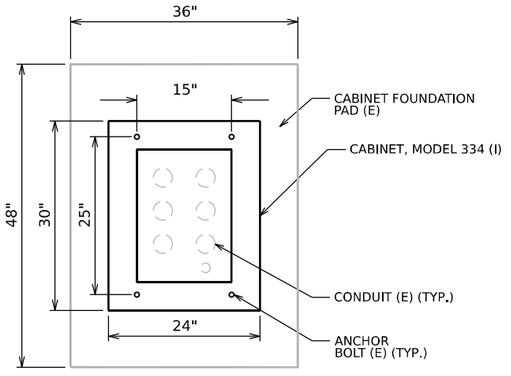
N.T.S.

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW LOCAL\TRANSYSTEMS-PW-01\DMS3265\6282\19-SHT-ITS-DET-21.DGN

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = SALASL	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 ITS DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DJM	REVISED -			80	FAI 80 21 VLS	VARIOUS	467	239
	PLOT SCALE = 0.16666667 ' / IN.	CHECKED - REL	REVISED -					CONTRACT NO. 62R19		
	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	



CABINET, MODEL 334
ELEVATION VIEW
N.T.S.



DETAIL A
CABINET FOUNDATION
ANCHOR BOLT AND
CONDUIT LAYOUT
N.T.S.

NOTES
1. SEE SHEET 231 FOR GROUND WELL DETAIL. GROUND WELL AND GROUNDING TO BE INSTALLED AS PART OF CABINET, MODEL 334 WORK.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	240
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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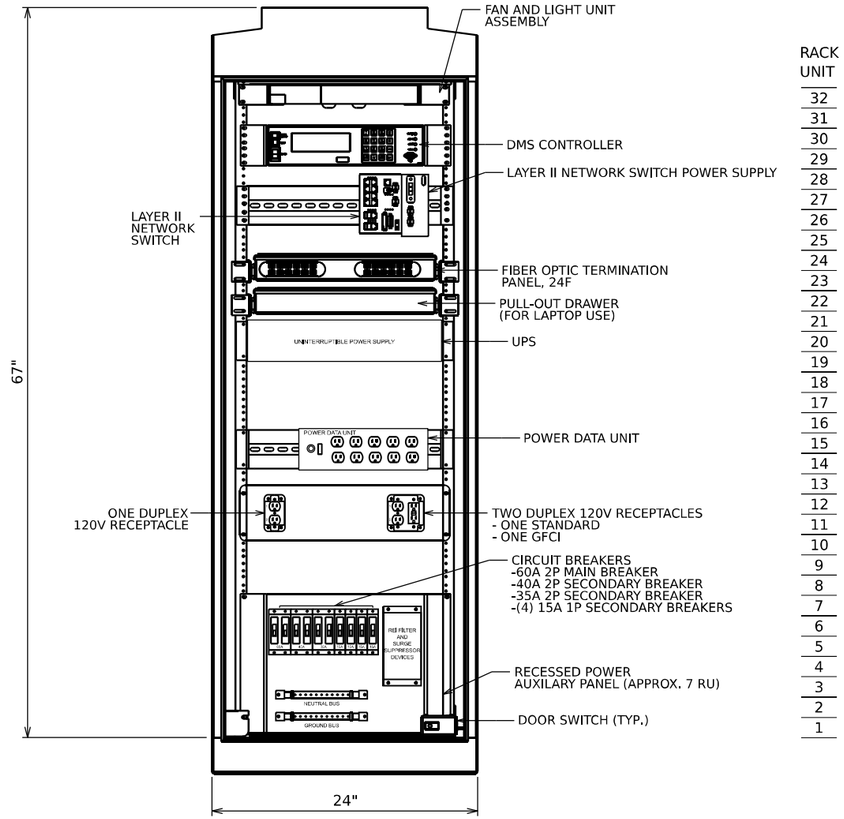

334 CABINET FRONT ELEVATION VIEW

(DOOR NOT SHOWN)
N.T.S.

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-ITS-DET-23.DGN

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CHICAGO, IL 60606

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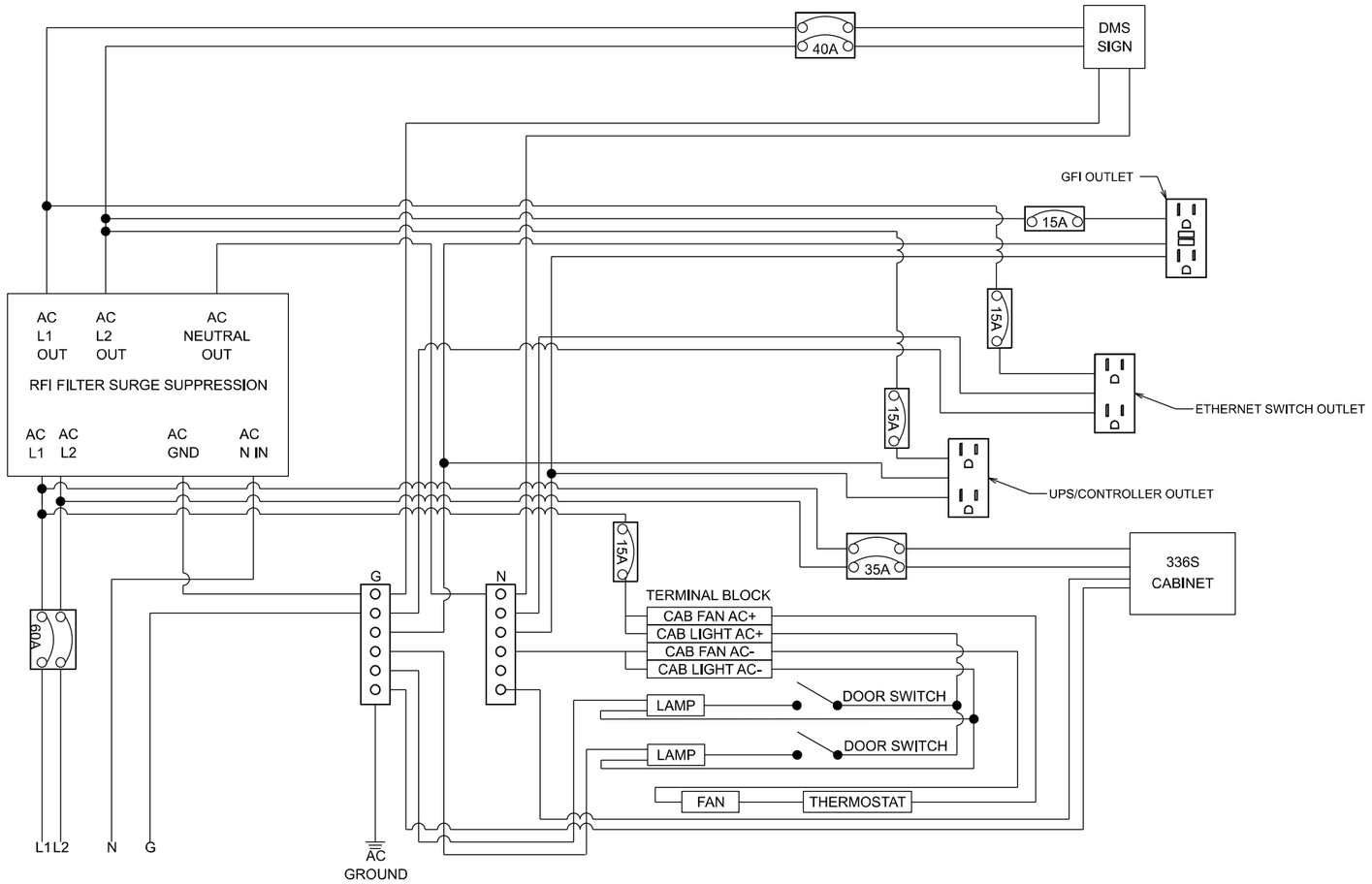
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	241
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



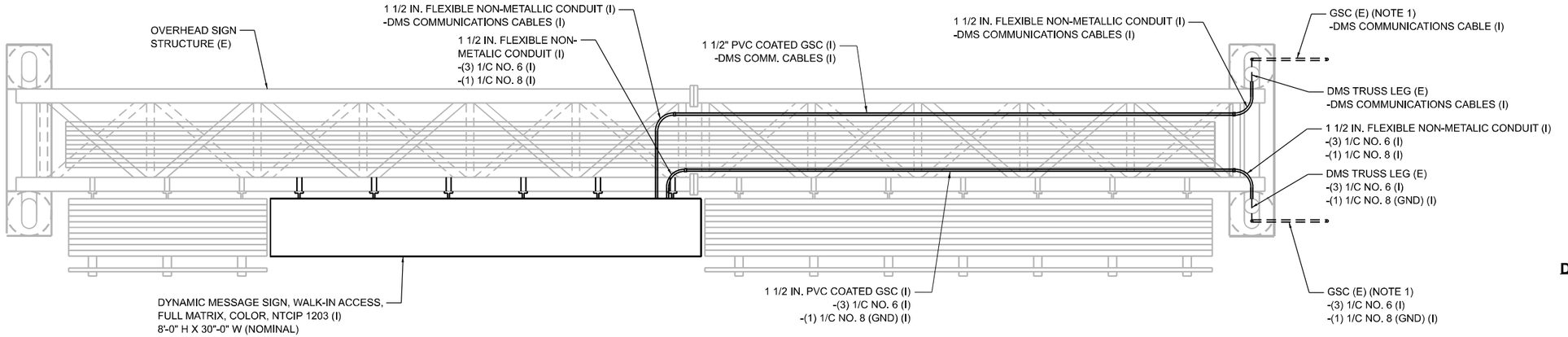
334 CABINET POWER DISTRIBUTION
SINGLE LINE DIAGRAM

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-ITS-DET-24.DGN

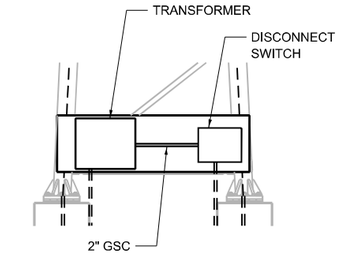
ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - REL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I–80 ITS DETAILS
	DRAWN - DJM	REVISED -		
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - WDS	REVISED -		
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

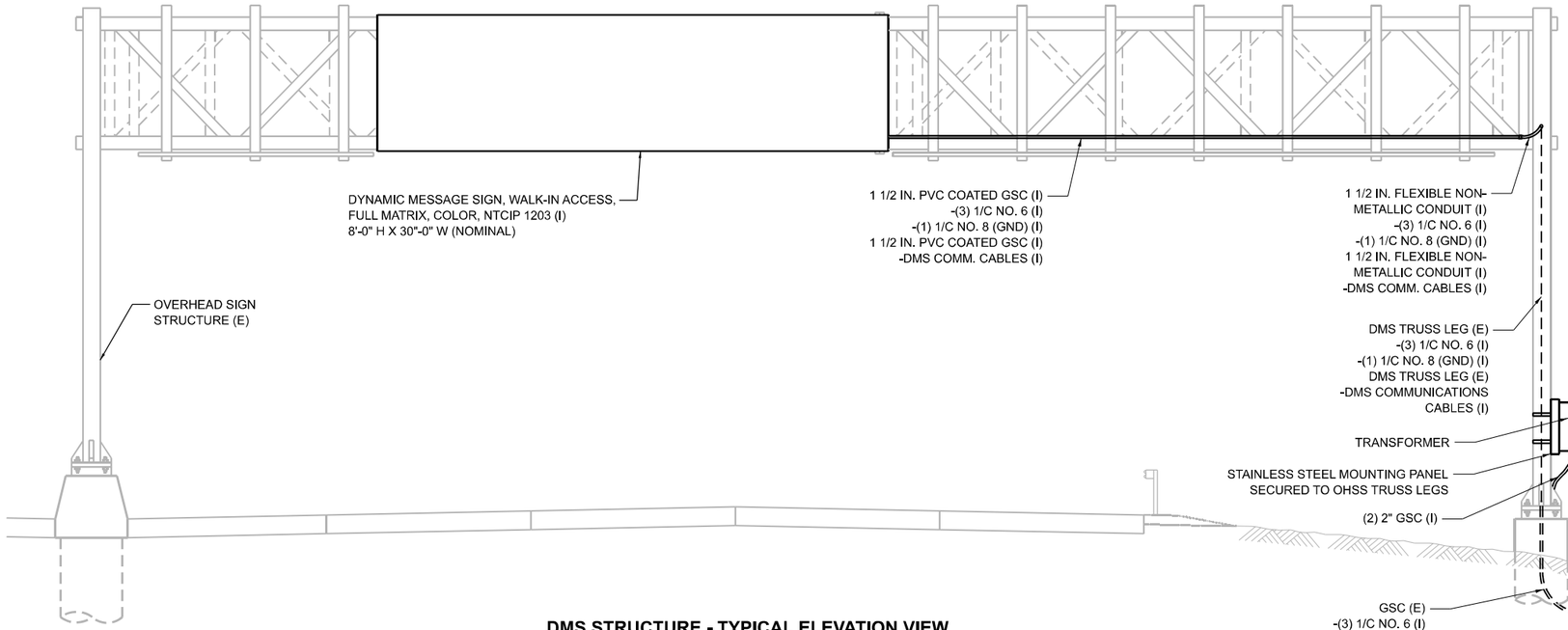
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	242
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		



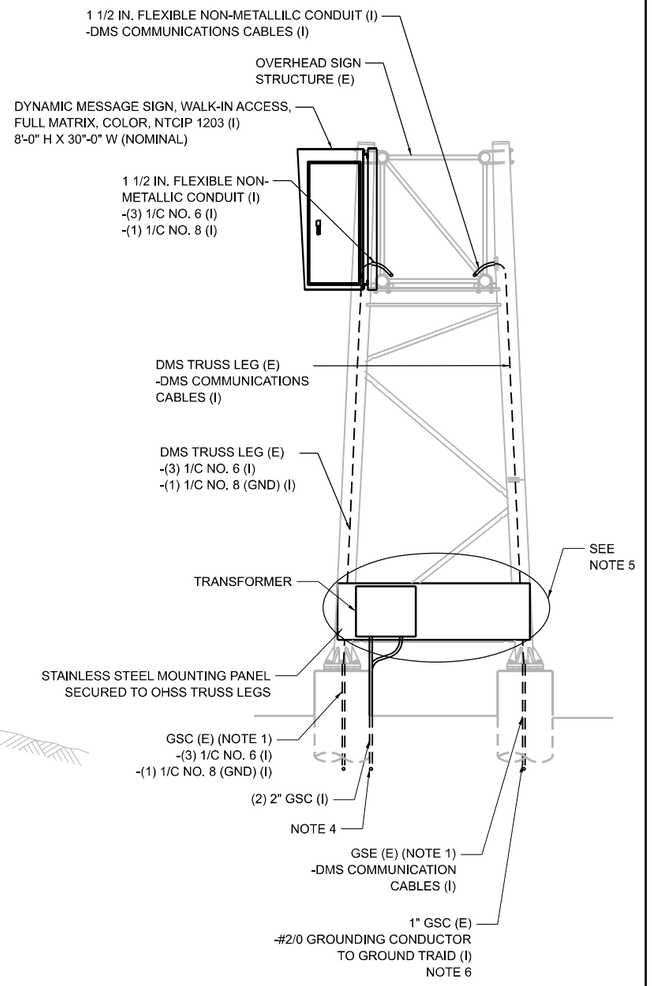
TOP VIEW



DETAIL B - OHSS 1S099I080R123.5



DMS STRUCTURE - TYPICAL ELEVATION VIEW



SIDE VIEW

NOTES

1. EXISTING CONDUIT SIZE VARIES BY LOCATION.
2. PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO THE DMS OVERHEAD SIGN STRUCTURE, 1-1/2" FLEXIBLE NON-METALLIC CONDUIT, TRANSFORMER, DISCONNECT SWITCH, AND STAINLESS STEEL MOUNTING PANEL ARE PAID FOR AS PART OF DMS SIGN CONTROL EQUIPMENT (X1400457).
3. ALL CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF 12 INCHES. CONTRACTOR SHALL INSTALL DMS COMMUNICATIONS CABLE SO AS NOT TO VIOLATE THE MANUFACTURER SPECIFIED BENDING RADIUS.
4. INTERCEPT TWO (2) 2" EXISTING COILABLE NONMETALLIC CONDUIT STUB UPS A MINIMUM OF 2' BELOW GRADE AND TRANSITION TO GALVANIZED STEEL CONDUIT ELBOW UP TO TRANSFORMER OR DISCONNECT SWITCH.
5. THIS DETAIL IS APPLICABLE TO DMS AT OHSS 1S099I080R129.0, 1S099I080R135.7, AND 1S099I080L136.0 REFER TO DETAIL B FOR DMS AT OHSS 1S099I080R123.5. THE DMS AT OHSS 1S099I080L131.3 DOES NOT HAVE A TRANSFORMER OR DISCONNECT SWITCH.
6. EXPOSE EXISTING 1" CONDUIT TO INSTALL GROUNDING CONDUCTOR. REFER TO SHEET 231 FOR GROUND WELL AND GROUNDING TRIAD DETAILS.

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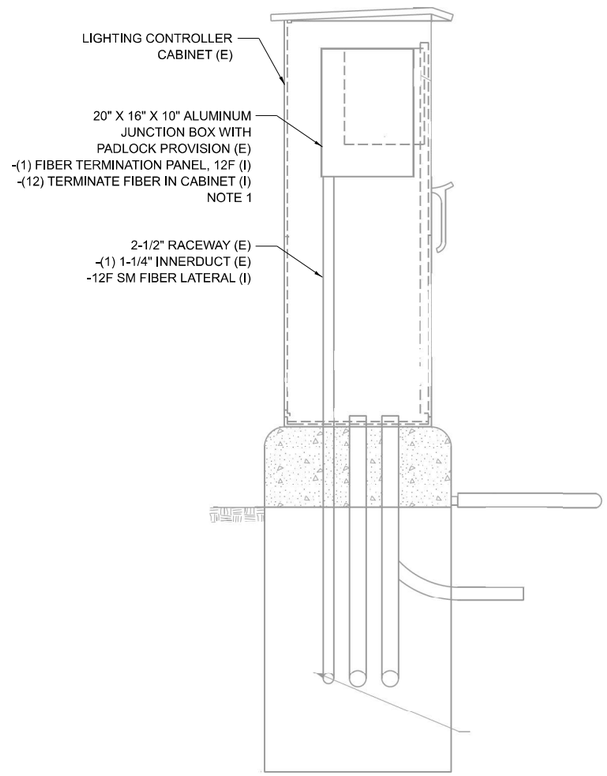
PLOT DATE = 11/12/2025		DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

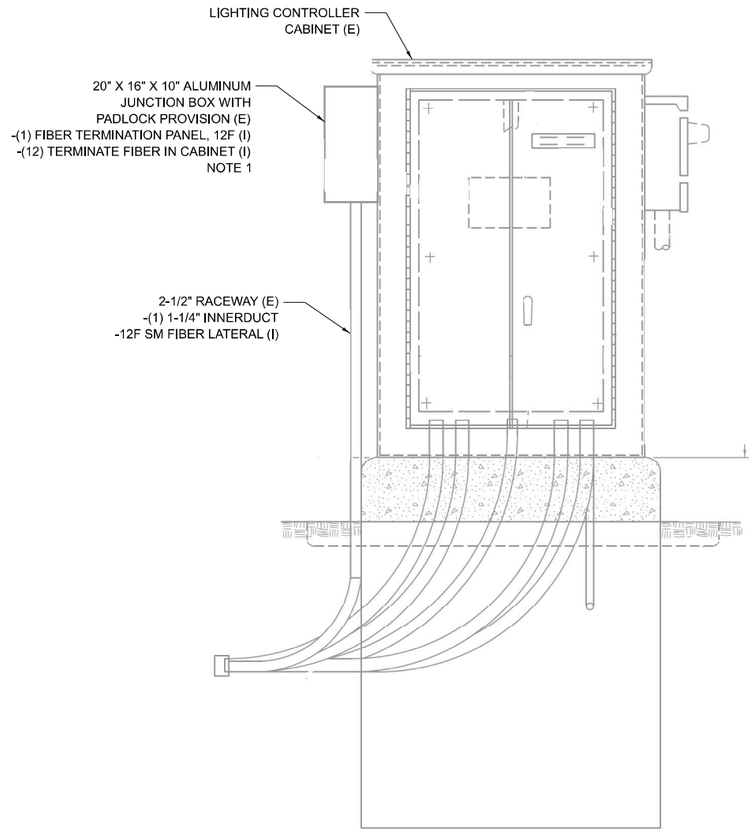
I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	243
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			



LIGHTING CONTROLLER
LEFT ELEVATION



LIGHTING CONTROLLER
FRONT ELEVATION

NOTES

1. INSTALL BACKPLATE IN JUNCTION BOX AND SECURE THE FIBER TERMINATION PANEL TO THE BACKPLATE. BACKPLATE SHALL BE INCLUDED IN THE COST OF FIBER TERMINATION PANEL.

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-0110MS32656\62R19-SHT-ITS-DET-26.DGN

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100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

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		DRAWN - DJM	REVISED -	
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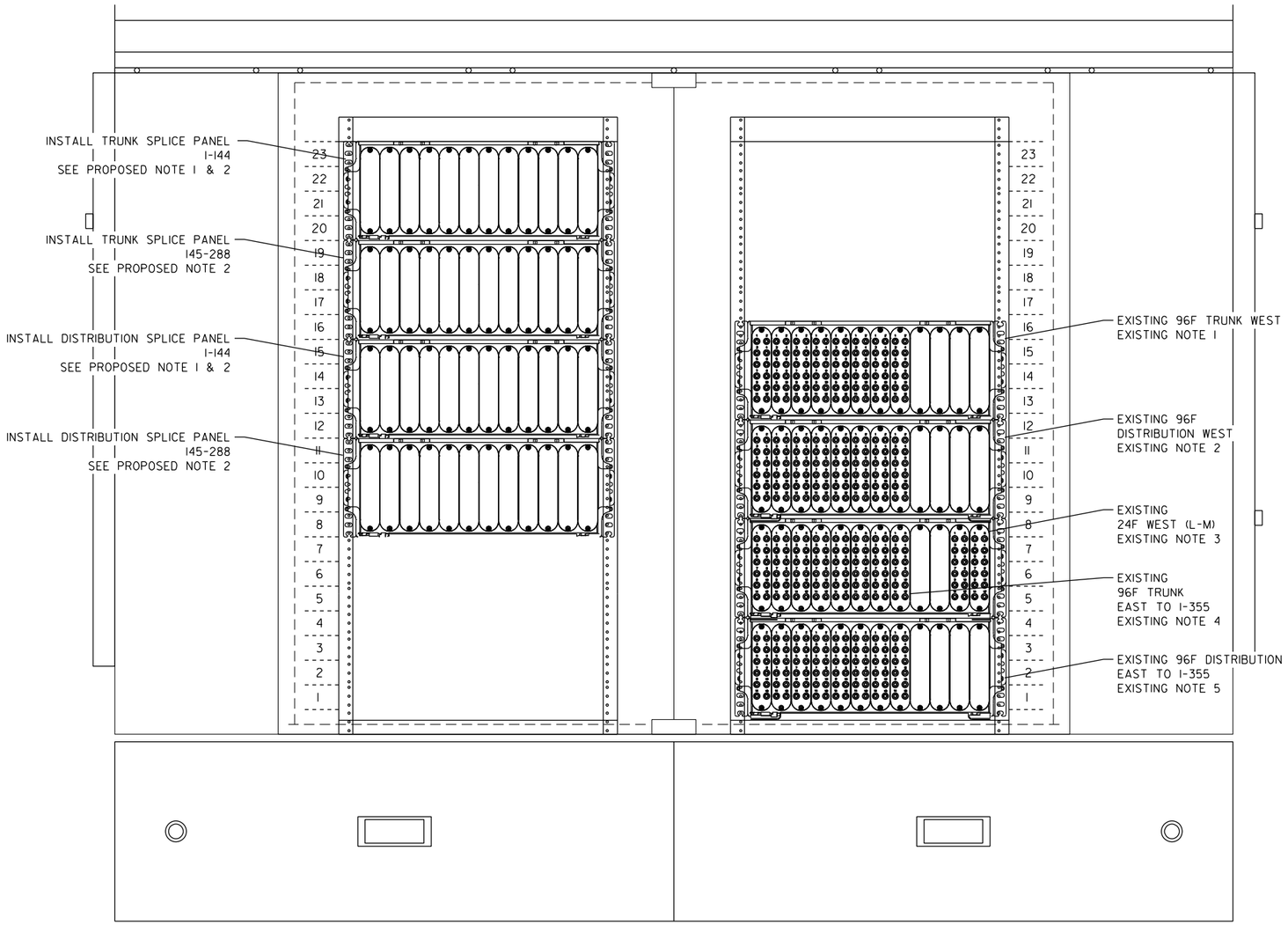
PLOT DATE = 11/12/2025		DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	244
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			



BACK
EXISTING FIBER OPTIC INTERCONNECT CABINET
EAST OF US 30

EXISTING NOTES:

1. NO JUMPERS IN TERMINATION PANEL.
2. PORTS 1-2 TO CABINET 59, PORTS 3-4 TO CABINET 57, PORTS 5-6 TO CABINET 58, PORTS 7-8 TO IE25A, PORTS 9-10 TO IE25B, PORTS 11-12 TO CABINET 61, AND PORTS 13-14 TO IE25.
3. PORTS 7-8 TO IE25, PORTS 9-10 TO IE25A AD PORTS 11-12 TO IE25B.
4. NO LABELS ON PANEL.
5. PORTS 13-14 TO PORTS 3-4 EAST TO CAB 55, PORTS 15-16 TO PORTS 3-4 EAST TO CAB 51, AND PORTS 17-18 TO PORTS 3-4 EAST TO CAB 53,

PROPOSED NOTES:

1. CONTRACTOR SHALL INSTALL 288 FIBER SPLICE PANELS AND SPLICE THE PROPOSED 288 FIBERS.
2. CONTRACTOR SHALL INSTALL BLANK FACE PANELS IN LIEU OF BULK HEADS AND/OR ADAPTER MODULES.

ATLAS TECHNICAL CONSULTANTS, LLC
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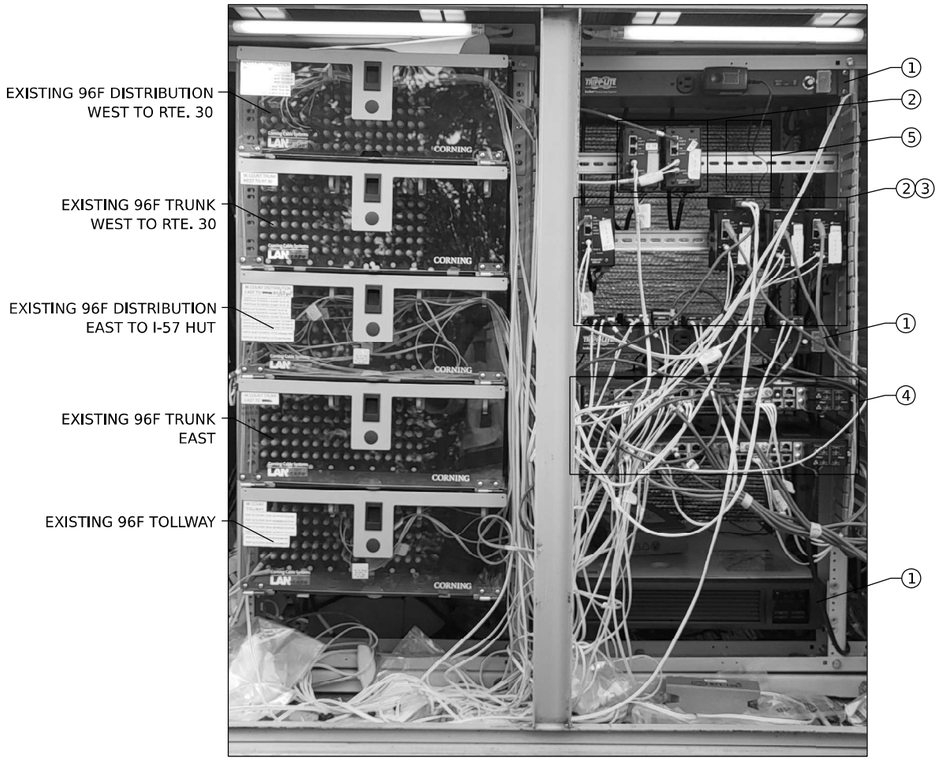
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

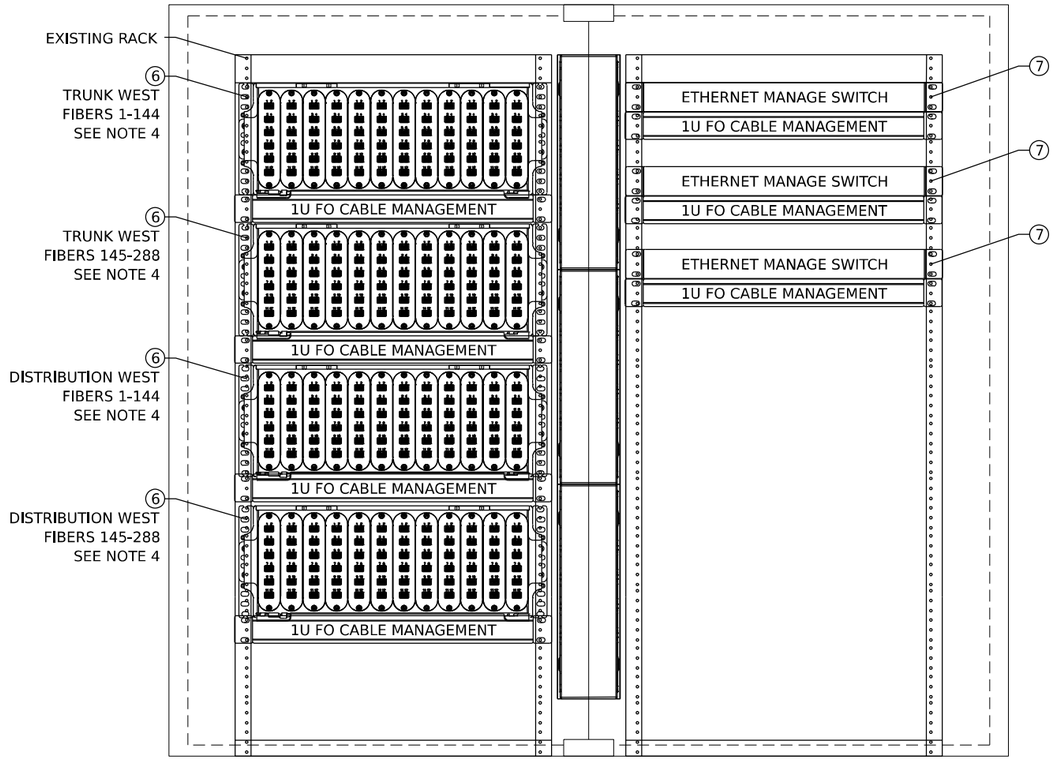
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	245
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-0110MS32656\62R19-SHT-ITS-DET-27.DGN



FRONT
EXISTING FIBER OPTIC INTERCONNECT CABINET
I-80 AND I-355



BACK
EXISTING FIBER OPTIC INTERCONNECT CABINET
I-80 AND I-355

NOTES:

1. MEDIA CONVERTOR REMOVAL NOTES:
   - A. THE FOLLOWING NOTES APPLY TO THE DEVICES LISTED BELOW: IE25B, IE25A, IE25, IE24, IE23A, AND IE23.
   - B. ALL MEDIA CONVERTORS ASSOCIATED WITH THE DEVICES ABOVE SHALL BE RETURNED TO IDOT.
   - C. ALL FIBER AND ETHERNET JUMPERS ASSOCIATED WITH THE DEVICES ABOVE SHALL BE REMOVED.

2. EXISTING DEVICE MIGRATION NOTES:
   - A. ALL DEVICES CONNECTED TO THE EXISTING NETWORK SWITCHES THAT ARE NOT LISTED IN NOTE 1A (IE17, IE18, IE19, IE20. IE21, AND IE22) SHALL BE MIGRATED TO THE PROPOSED ETHERNET NETWORK SWITCH STACK OR THE LAYER II NETWORK SWITCH.
   - B. DEVICES CONNECTED TO THE RJ45 PORTS SHALL BE MIGRATED TO THE LAYER II NETWORK SWITCH.
   - C. DEVICES CONNECTED TO THE SFP PORTS SHALL BE MIGRATED TO THE ETHERNET NETWORK SWITCH STACK. THE CONTRACTOR SHALL CAREFULLY REMOVE THE EXISTING JUMPER AND SFP FROM THE EXISTING SWITCH AND TRANSFER IT TO THE ETHERNET NETWORK SWITCH STACK.
   - D. THE CONTRACTOR SHALL COORDINATE WITH IDOT FOR PORT ASSIGNMENTS TO MIGRATE THE DEVICES.

3. INSTALL PROPOSED LAYER II NETWORK SWITCH AND POWER SUPPLY ON EXISTING DIN RAIL.

4. CONTRACTOR SHALL CONFIRM FINAL LOCATION OF THE ETHERNET MANAGE SWITCH.
   - A. CONTRACTOR SHALL COORDINATE WITH IDOT FOR FINAL PORT ASSIGNMENTS.
   - B. INSTALL SINGLEMODE FIBER OPTIC JUMPER BETWEEN THE PROPOSED LAYER II NETWORK SWITCH. AND THE PROPOSED ETHERNET NETWORK SWITCH STACK.

1. EXISTING COMPONENT TO REMAIN
2. EXISTING MEDIA CONVERTOR TO REMAIN (SEE NOTE 2)
3. EXISTING MEDIA CONVERTOR TO BE REMOVED (SEE NOTE 1)
4. EXISTING NETWORK SWITCH TO BE REMOVED (SEE NOTES 1 AND 2)
5. INSTALL PROPOSED LAYER II NETWORK SWITCH (SEE NOTE 3)
6. INSTALL PROPOSED FIBER OPTIC PATCH PANEL, 144 PORT, RACK MOUNT
7. INSTALL PROPOSED ETHERNET MANAGE SWITCH STACK (SEE NOTE 4)

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01(DMS32656)62R19-SHT-ITS-DET-28.DGN

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	246
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

		FROM		TO		
DEVICE ID	CONNECTION	FDP PANEL	PORTS	SFP	SWITCH PORT	SWITCH ID
IE29B	PRIMARY	DCF-IE-005	57 58	GLC-EX-SMD	.	.
IE29A	PRIMARY	DCF-IE-005	61 62	GLC-EX-SMD	.	.
IE28A	PRIMARY	DCF-IE-005	65 66	GLC-LH-SMD	.	.
IE28	PRIMARY	DCF-IE-005	69 70	GLC-LH-SMD	.	.
IE27	PRIMARY	DCF-IE-005	73 74	GLC-LH-SMD	.	.
CAB 61	PRIMARY	DCF-IE-005	77 78	GLC-LH-SMD	.	.
CAB 59/IE25B	PRIMARY	DCF-IE-005	81 82	GLC-LH-SMD	.	.
IE25A	PRIMARY	DCF-IE-005	89 90	GLC-LH-SMD	.	.
CAB 57/IE25	PRIMARY	DCF-IE-005	93 94	GLC-LH-SMD	.	.
DMS-47	PRIMARY	DCF-IE-005	105 106	GLC-LH-SMD	.	.
TS 7393 (BRIGGS)	PRIMARY	DCF-IE-005	113 114	GLC-LH-SMD	.	.
IE30A	PRIMARY	DCF-IE-005	185 186	GLC-EX-SMD	.	.
IE30	PRIMARY	DCF-IE-005	189 190	GLC-EX-SMD	.	.
IE29	PRIMARY	DCF-IE-005	193 194	GLC-EX-SMD	.	.
IE28B	PRIMARY	DCF-IE-005	197 198	GLC-LH-SMD	.	.
IE27A	PRIMARY	DCF-IE-005	201 202	GLC-LH-SMD	.	.
IE26B	PRIMARY	DCF-IE-005	205 206	GLC-LH-SMD	.	.
IE26A	PRIMARY	DCF-IE-005	209 210	GLC-LH-SMD	.	.
CAB 58	PRIMARY	DCF-IE-005	213 214	GLC-LH-SMD	.	.
IE24	PRIMARY	DCF-IE-005	217 218	GLC-LH-SMD	.	.
CAB 55	PRIMARY	DCF-IE-005	221 222	GLC-LH-SMD	.	.
CAB 53	PRIMARY	DCF-IE-005	225 226	GLC-LH-SMD	.	.

		FROM		TO		
DEVICE ID	CONNECTION	FDP PANEL	PORTS	SFP	SWITCH PORT	SWITCH ID
CAB 51	PRIMARY	DCF-IE-005	229 230	GLC-LH-SMD	.	.
IE23A	PRIMARY	DCF-IE-005	233 234	GLC-LH-SMD	.	.
CAB 49	PRIMARY	DCF-IE-005	237 238	GLC-LH-SMD	.	.
CAB 47	PRIMARY	DCF-IE-005	241 242	GLC-LH-SMD	.	.
IE23	PRIMARY	DCF-IE-005	245 246	GLC-LH-SMD	.	.
DMS-41	PRIMARY	DCF-IE-005	257 258	GLC-LH-SMD	.	.
TS 7390 RICHARDS	PRIMARY	DCF-IE-005	269 270	GLC-EX-SMD	.	.
LAYER II SWITCH	PRIMARY			GLC-LH-SMD	.	.

NOTES:

1. CONTRACTOR TO COORDINATE WITH IDOT FOR SWITCH PORT AND SWITCH ID ASSIGNMENTS.

FIBER OPTIC JUMPER SCHEDULE
EXISTING FIBER OPTIC INTERCONNECT CABINET
I-80 AND I-355

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
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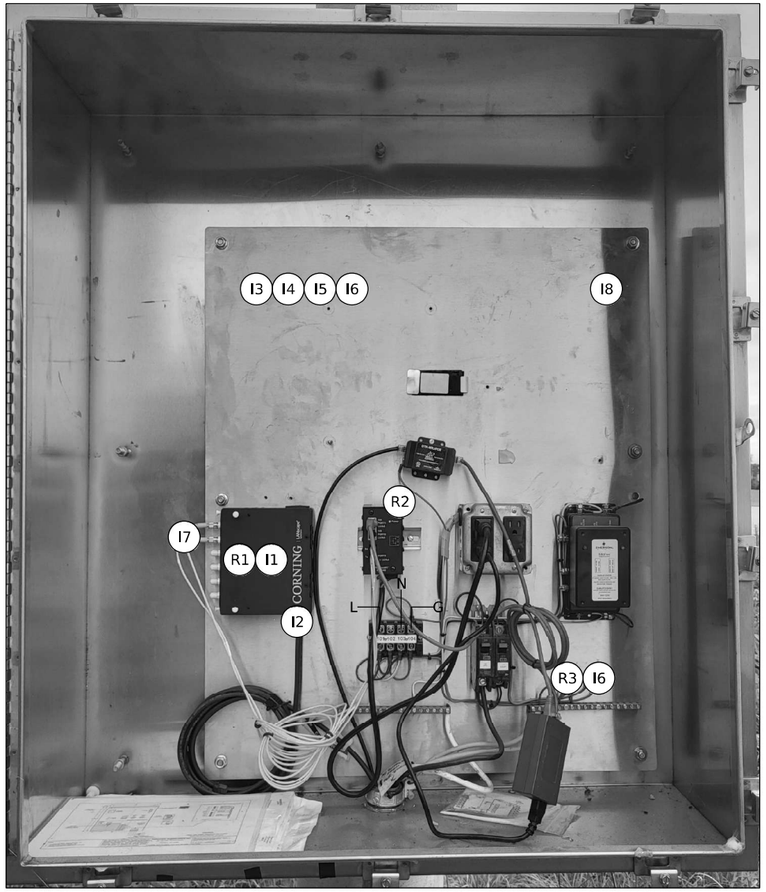
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

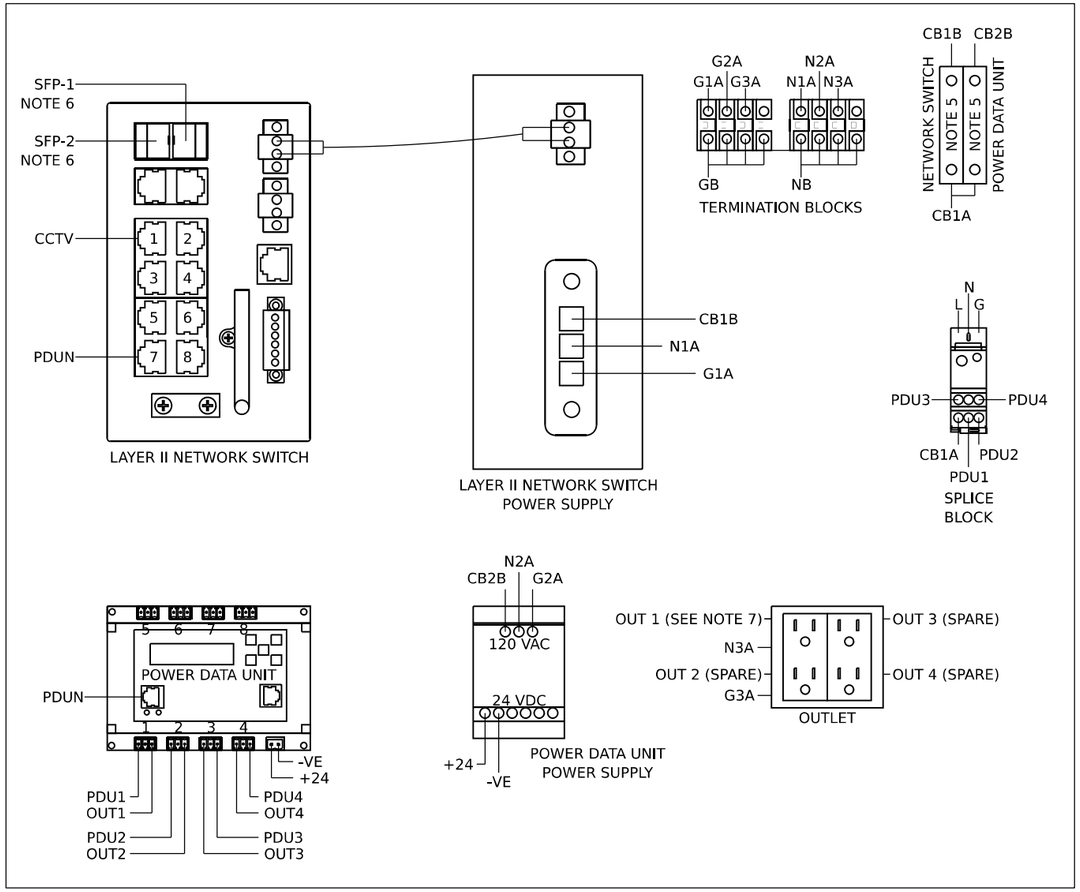
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	247
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			



TYPICAL EXISTING CCTV CABINET

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND IDOT PRIOR TO WORKING IN THE EXISTING CABINETS.
2. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING MEDIA CONVERTOR AND ASSOCIATED POWER SUPPLY. THE ENGINEER SHALL COORDINATE WITH THE IDOT TO DROP OFF ALL SALVAGED EQUIPMENT.
3. THE DIN RAIL AND OTHER ASSOCIATED EQUIPMENT SHALL BE MOUNTED ON THE CABINET BACKPANEL ONLY.
4. SEE TYPICAL WIRING DETAIL.
5. 5AMP AC BREAKER.
6. INSTALL FIBER JUMPER BETWEEN FDP PORTS 1-2 & SFP-1 AND FDP PORTS 5-6 & SFP-2.
7. PLUG IN POE FOR CCTV.
8. THIS DRAWING ONLY APPLIES TO SITE ID: IE23, IE23A & IE24.



TYPICAL WIRING DIAGRAM

REMOVAL NOTES:

- (R1) REMOVE EXISTING FIBER TERMINATION PANEL AND FIBER JUMPERS. (SEE NOTES 1-2).
- (R2) REMOVE EXISTING MEDIA CONVERTOR (SEE NOTE 2).
- (R3) REMOVE NETWORK CABLE BETWEEN THE EXISTING MEDIA CONVERTOR AND EXISTING CAMERA POE.

INSTALLATION NOTES:

- (I1) INSTALL PROPOSED FIBER OPTIC TERMINATION PANEL, 12F
- (I2) TERMINATE EXISTING 12 FIBER SINGLE MODE FIBER.
- (I3) INSTALL DIN RAIL, CIRCUIT BREAKERS, TERMINAL BLOCKS AND SPLICE BLOCK (SEE NOTE 3).
- (I4) INSTALL LAYER II NETWORK SWITCH AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I5) INSTALL POWER DATA UNIT AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I6) INSTALL NETWORK CABLE(S) BETWEEN THE PROPOSED NETWORK SWITCH AND EXISTING CAMERA POE.
- (I7) INSTALL FIBER JUMPER BETWEEN FIBER TERMINATION PANEL AND NETWORK SWITCH (SEE NOTE 6).
- (I8) INSTALL OUTLET

ATLAS TECHNICAL CONSULTANTS, LLC
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

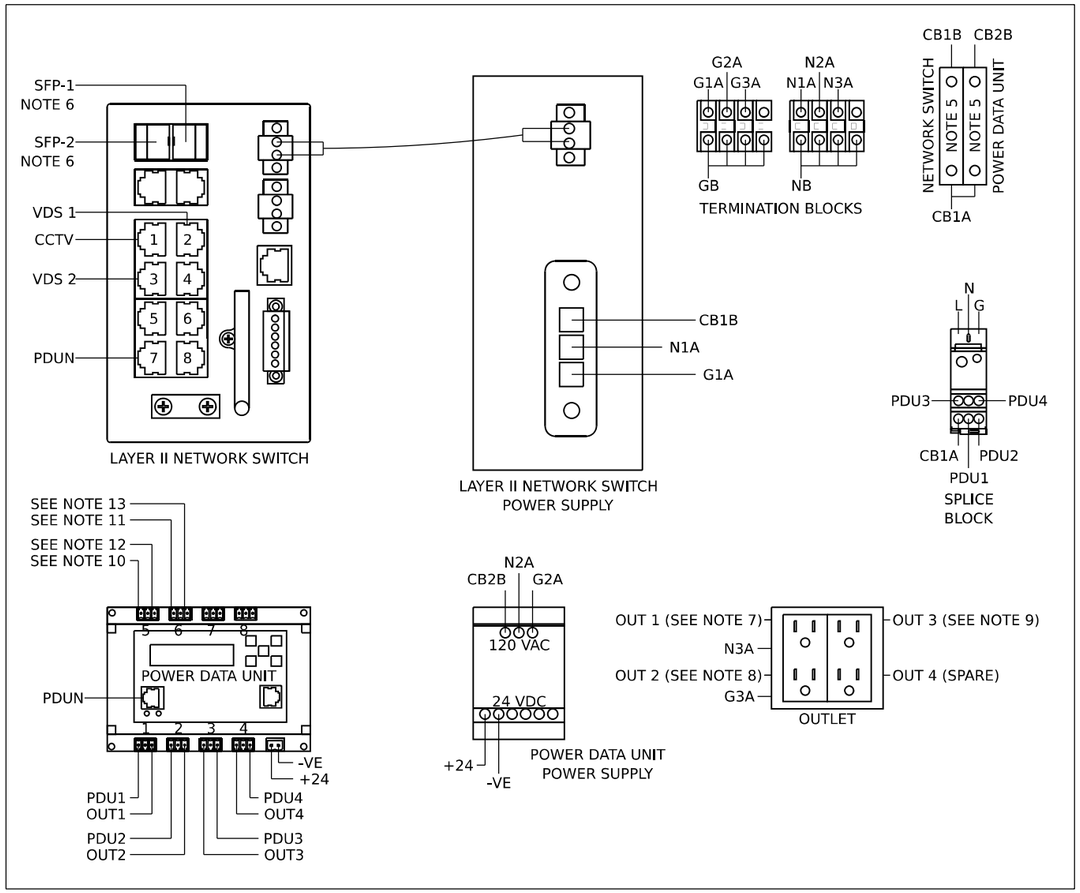
I-80
ITS DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	248
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\D0MS32656\62R19-SHT-ITS-DET-30.DGN

TYPICAL EXISTING CCTV/RTMS CABINET



TYPICAL WIRING DIAGRAM

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND IDOT PRIOR TO WORKING IN THE EXISTING CABINETS.
2. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING MEDIA CONVERTOR, NETWORK SWITCH AND ASSOCIATED POWER SUPPLIES. THE ENGINEER SHALL COORDINATE WITH THE IDOT TO DROP OFF ALL SALVAGED EQUIPMENT.
3. THE DIN RAIL AND OTHER ASSOCIATED EQUIPMENT SHALL BE MOUNTED ON THE CABINET BACKPANEL ONLY.
4. SEE TYPICAL WIRING DETAIL.
5. 5AMP AC BREAKER.
6. INSTALL FIBER JUMPER BETWEEN FDP PORTS 1-2 & SFP-1 AND FDP PORTS 5-6 & SFP-2.
7. PLUG IN POE FOR CCTV.
8. PLUG IN POWER SUPPLY FOR SERIAL SERVER FOR RTMS-1.
9. PLUG IN POWER SUPPLY FOR SERIAL SERVER FOR RTMS-2.
10. INSTALL +DC CONDUCTOR FROM POWER SUPPLY FOR RTMS-1.
11. INSTALL +DC CONDUCTOR FROM POWER SUPPLY FOR RTMS-2.
12. INSTALL +DC CONDUCTOR TO RTMS-1.
13. INSTALL +DC CONDUCTOR TO RTMS-2.
14. THIS DRAWING ONLY APPLIES TO SITE ID: CABINET 57/IE25, CABINET 58, CABINET 59/IE25B & CABINET 61.

REMOVAL NOTES:

- (R1) REMOVE EXISTING FIBER TERMINATION PANEL AND FIBER JUMPERS(SEE NOTES 1-2).
- (R2) REMOVE EXISTING NETWORK SWITCH (SEE NOTE 2).
- (R3) REMOVE ALL NETWORK CABLES BETWEEN THE EXISTING NETWORK SWITCH AND EXISTING DEVICES.

INSTALLATION NOTES:

- (I1) INSTALL PROPOSED FIBER OPTIC TERMINATION PANEL, 12F
- (I2) TERMINATE EXISTING 12 FIBER SINGLE MODE FIBER.
- (I3) INSTALL DIN RAIL (SEE NOTE 3).
- (I4) INSTALL LAYER II NETWORK SWITCH AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I5) INSTALL POWER DATA UNIT AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I6) INSTALL NETWORK CABLE(S) BETWEEN THE PROPOSED NETWORK SWITCH AND EXISTING DEVICES.
- (I7) INSTALL FIBER JUMPER BETWEEN FIBER TERMINATION PANEL AND NETWORK SWITCH (SEE NOTE 6).
- (I8) INSTALL OUTLET

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - JM	REVISED -	
	DRAWN - AW	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

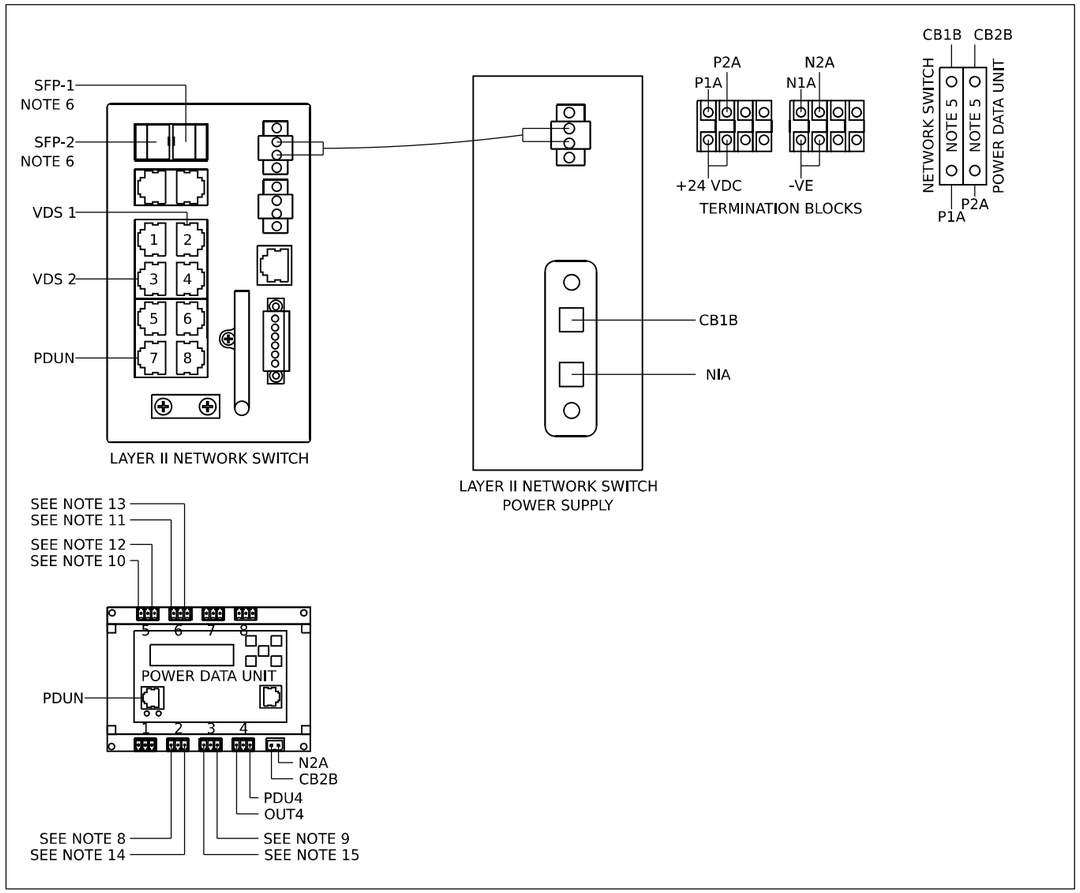
I-80
ITS DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	249
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS3285606\62R19-SHT-ITS-DET-31.DGN

TYPICAL EXISTING SOLAR CABINET



TYPICAL WIRING DIAGRAM

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND IDOT PRIOR TO WORKING IN THE EXISTING CABINETS.
2. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING MEDIA CONVERTOR, NETWORK SWITCH AND ASSOCIATED POWER SUPPLIES. THE ENGINEER SHALL COORDINATE WITH THE IDOT TO DROP OFF ALL SALVAGED EQUIPMENT.
3. THE DIN RAIL AND OTHER ASSOCIATED EQUIPMENT SHALL BE MOUNTED ON RAILS.
4. SEE TYPICAL WIRING DETAIL.
5. 2AMP DC BREAKER.
6. INSTALL FIBER JUMPER BETWEEN FDP PORTS 1-2 & SFP-1 AND FDP PORTS 5-6 & SFP-2.
7. NOT USED.
8. INSTALL +DC CONDUCTOR FROM POWER SUPPLY OF SERIAL SERVER FOR RTMS-1.
9. INSTALL +DC CONDUCTOR FROM POWER SUPPLY OF SERIAL SERVER FOR RTMS-2.
10. INSTALL +DC CONDUCTOR FROM POWER SUPPLY FOR RTMS-1.
11. INSTALL +DC CONDUCTOR FROM POWER SUPPLY FOR RTMS-2.
12. INSTALL +DC CONDUCTOR TO RTMS-1.
13. INSTALL +DC CONDUCTOR TO RTMS-2.
14. INSTALL +DC CONDUCTOR TO SERIAL SERVER FOR RTMS-1.
15. INSTALL +DC CONDUCTOR TO SERIAL SERVER FOR RTMS-2.
16. THIS DRAWING ONLY APPLIES TO SITE ID: CABINET 47, CABINET 51, CABINET 53 & CABINET 55.

REMOVAL NOTES:

- (R1) REMOVE EXISTING FIBER TERMINATION PANEL AND FIBER JUMPERS(SEE NOTES 1-2).
- (R2) REMOVE EXISTING NETWORK SWITCH (SEE NOTE 2).
- (R3) REMOVE ALL NETWORK CABLES BETWEEN THE EXISTING NETWORK SWITCH AND EXISTING DEVICES.

INSTALLATION NOTES:

- (I1) INSTALL PROPOSED FIBER OPTIC TERMINATION PANEL, 12F
- (I2) TERMINATE EXISTING 12 FIBER SINGLE MODE FIBER.
- (I3) INSTALL DIN RAIL (SEE NOTE 2).
- (I4) INSTALL LAYER II NETWORK SWITCH AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I5) INSTALL POWER DATA UNIT AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I6) INSTALL NETWORK CABLE(S) BETWEEN THE PROPOSED NETWORK SWITCH AND EXISTING DEVICES.
- (I7) INSTALL FIBER JUMPER BETWEEN FIBER TERMINATION PANEL AND NETWORK SWITCH (SEE NOTE 6).

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PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

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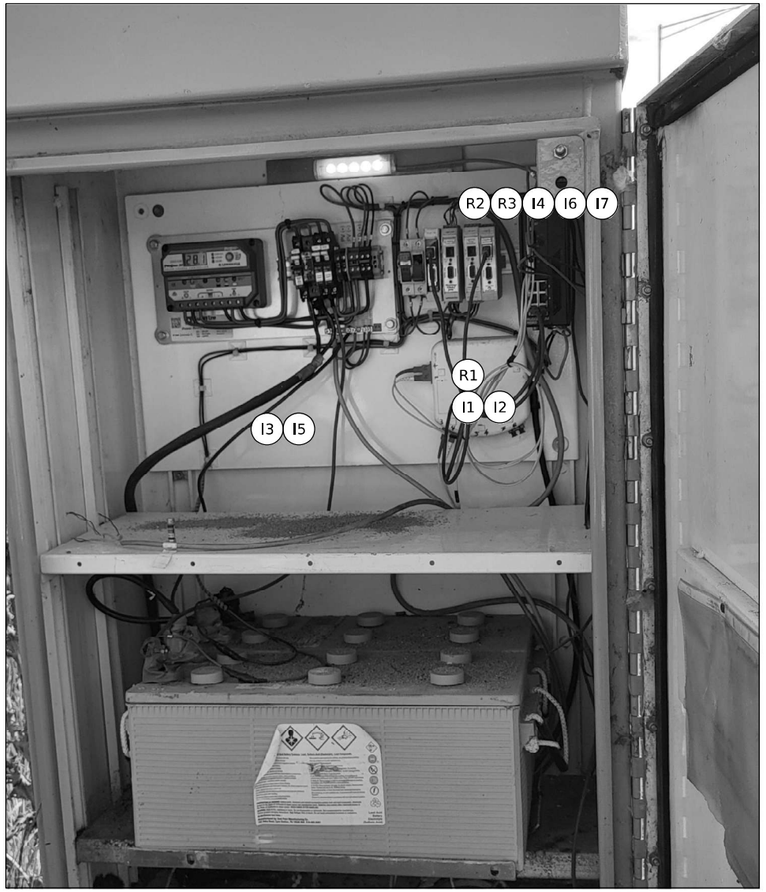
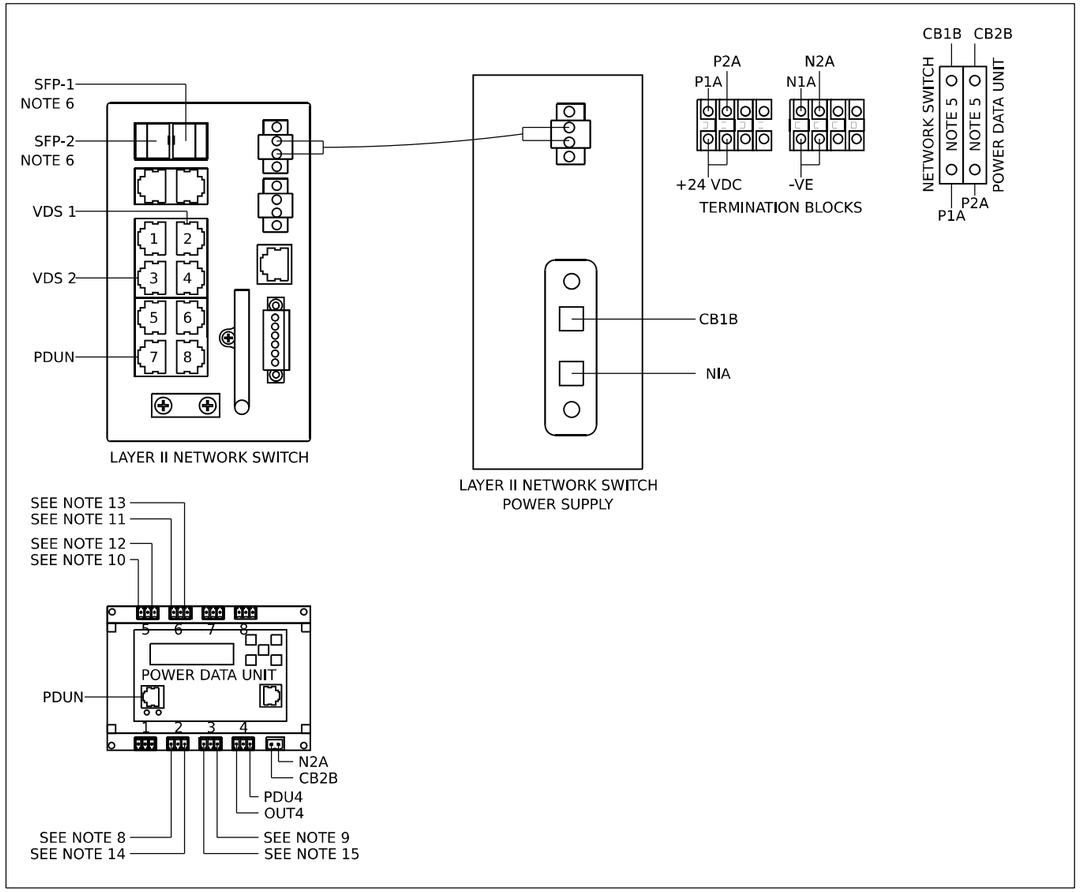


CABINET 49

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND IDOT PRIOR TO WORKING IN THE EXISTING CABINETS.
2. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING MEDIA CONVERTOR, NETWORK SWITCH AND ASSOCIATED POWER SUPPLIES. THE ENGINEER SHALL COORDINATE WITH THE IDOT TO DROP OFF ALL SALVAGED EQUIPMENT.
3. THE DIN RAIL AND OTHER ASSOCIATED EQUIPMENT SHALL BE MOUNTED ON THE CABINET BACKPANEL ONLY.
4. SEE TYPICAL WIRING DETAIL.
5. 2AMP DC BREAKER.
6. INSTALL FIBER JUMPER BETWEEN FDP PORTS 1-2 & SFP-1 AND FDP PORTS 5-6 & SFP-2.
7. NOT USED.
8. INSTALL +DC CONDUCTOR FROM POWER SUPPLY OF SERIAL SERVER FOR RTMS-1.
9. INSTALL +DC CONDUCTOR FROM POWER SUPPLY OF SERIAL SERVER FOR RTMS-2.
10. INSTALL +DC CONDUCTOR FROM POWER SUPPLY FOR RTMS-1.
11. INSTALL +DC CONDUCTOR FROM POWER SUPPLY FOR RTMS-2.
12. INSTALL +DC CONDUCTOR TO RTMS-1.
13. INSTALL +DC CONDUCTOR TO RTMS-2.
14. INSTALL +DC CONDUCTOR TO SERIAL SERVER FOR RTMS-1.
15. INSTALL +DC CONDUCTOR TO SERIAL SERVER FOR RTMS-2.
16. THIS DRAWING ONLY APPLIES TO SITE ID: CABINET 49.



CABINET 49 WIRING DIAGRAM

REMOVAL NOTES:

- R1 REMOVE EXISTING FIBER TERMINATION PANEL AND FIBER JUMPERS(SEE NOTES 1-2).
- R2 REMOVE EXISTING NETWORK SWITCH (SEE NOTE 2).
- R3 REMOVE ALL NETWORK CABLES BETWEEN THE EXISTING NETWORK SWITCH AND EXISTING DEVICES.

INSTALLATION NOTES:

- I1 INSTALL PROPOSED FIBER OPTIC TERMINATION PANEL, 12F
- I2 TERMINATE EXISTING 12 FIBER SINGLE MODE FIBER.
- I3 INSTALL DIN RAIL (SEE NOTE 2).
- I4 INSTALL LAYER II NETWORK SWITCH AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- I5 INSTALL POWER DATA UNIT AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- I6 INSTALL NETWORK CABLE(S) BETWEEN THE PROPOSED NETWORK SWITCH AND EXISTING DEVICES.
- I7 INSTALL FIBER JUMPER BETWEEN FIBER TERMINATION PANEL AND NETWORK SWITCH (SEE NOTE 6).

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100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL		DESIGNED - JM		REVISED -	
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PLOT SCALE = 0.16666667 ' / IN.		CHECKED - DM		REVISED -	
PLOT DATE = 11/12/2025		DATE - 11/12/2025		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	251
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: 2D SHEET H
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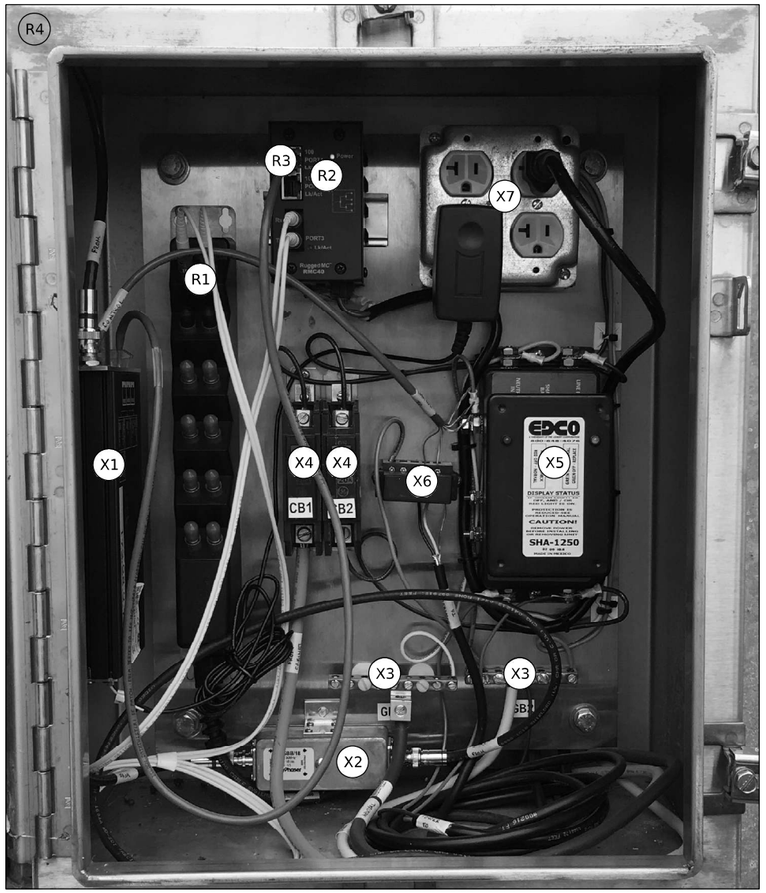
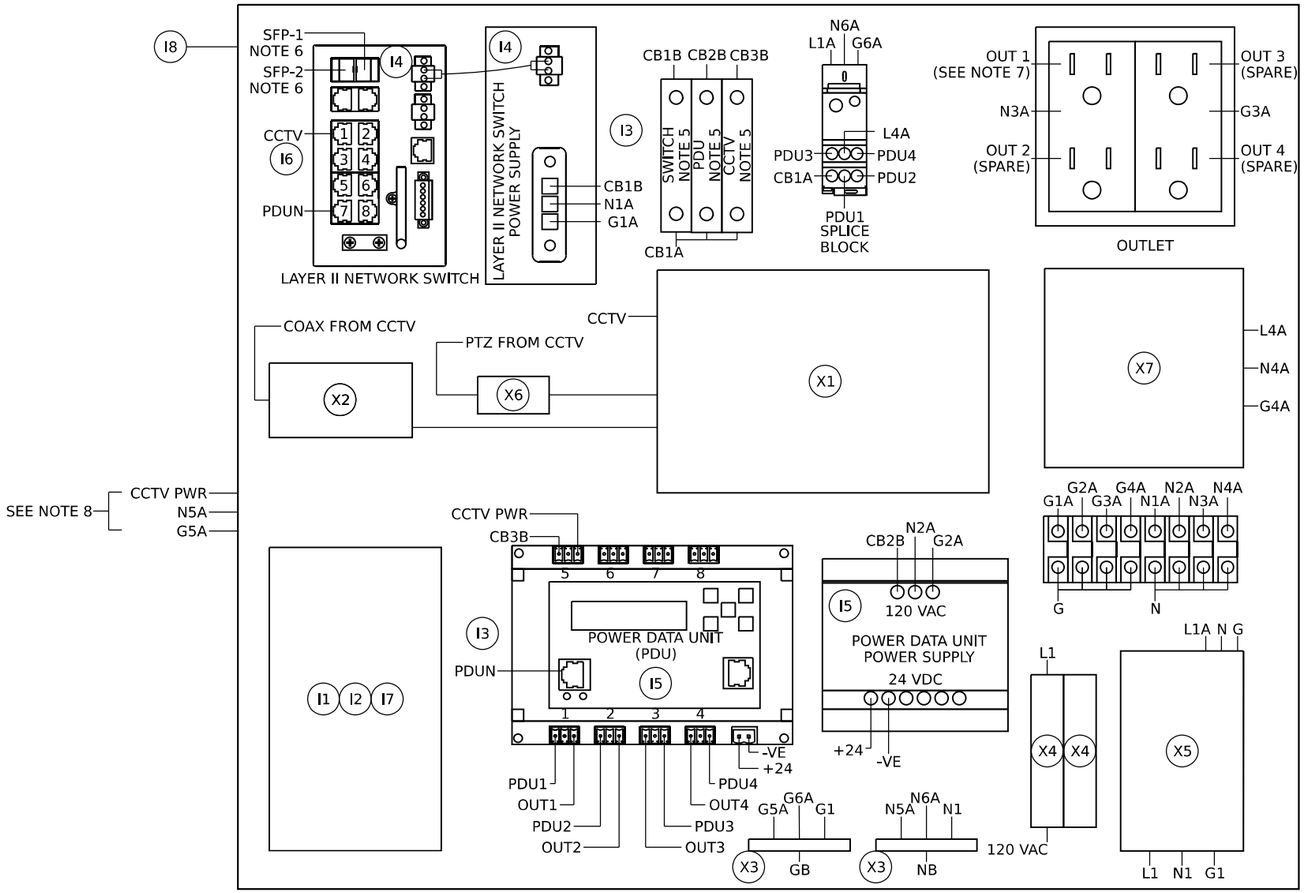


CABINET IE25A



CLOSED CIRCUIT TELEVISION CABINET (IE25) WIRING / EQUIPMENT LAYOUT DETAIL

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND IDOT PRIOR TO WORKING IN THE EXISTING CABINETS.
2. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING MEDIA CONVERTOR, NETWORK SWITCH AND ASSOCIATED POWER SUPPLIES. THE ENGINEER SHALL COORDINATE WITH THE IDOT TO DROP OFF ALL SALVAGED EQUIPMENT.
3. THE DIN RAIL AND OTHER ASSOCIATED EQUIPMENT SHALL BE MOUNTED ON THE CABINET BACKPANEL ONLY.
4. SEE TYPICAL WIRING DETAIL.
5. 5AMP AC BREAKER.
6. INSTALL FIBER JUMPER BETWEEN FDP PORTS 1-2 & SFP-1 AND FDP PORTS 5-6 & SFP-2.
7. PLUG IN ENCODER FOR CCTV.
8. EXISTING CABLE TO CCTV POWER SUPPLY JUNCTION BOX ON TOP OF HIGH MAST TOWER.

INSTALLATION NOTES:

- (I1) INSTALL PROPOSED FIBER OPTIC TERMINATION PANEL, 12 PORTS
- (I2) TERMINATE EXISTING 12 FIBER SINGLE MODE FIBER (SEE NOTE 6).
- (I3) INSTALL DIN RAIL (SEE NOTE 2).
- (I4) INSTALL LAYER II NETWORK SWITCH AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I5) INSTALL POWER DATA UNIT AND POWER SUPPLY ON DIN RAIL (SEE NOTES 3 & 4).
- (I6) INSTALL NETWORK CABLE(S) BETWEEN THE PROPOSED NETWORK SWITCH AND EXISTING DEVICES.
- (I7) INSTALL FIBER JUMPER BETWEEN FIBER TERMINATION PANEL AND NETWORK SWITCH (SEE NOTE 6).
- (I8) INSTALL CLOSED CIRCUIT TELEVISION CABINET.

REMOVAL NOTES:

- (R1) REMOVE EXISTING FIBER TERMINATION PANEL AND FIBER JUMPERS. (SEE NOTES 1-2).
- (R2) REMOVE EXISTING MEDIA CONVERTOR (SEE NOTE 2).
- (R3) REMOVE NETWORK CABLE BETWEEN THE EXISTING MEDIA CONVERTOR AND ENCODER.
- (R4) REMOVE EXISTING ENCLOSURE

REMOVE AND REINSTALL IN NEW CABINET NOTES:

- (X1) REMOVE AND REINSTALL THE EXISTING CCTV ENCODER.
- (X2) REMOVE AND REINSTALL THE EXISTING CCTV COAX SURGE.
- (X3) REMOVE AND REINSTALL THE EXISTING GROUND AND NEUTRAL BUS BARS.
- (X4) REMOVE AND REINSTALL THE EXISTING CIRCUIT BREAKERS CB1 AND CB2.
- (X5) REMOVE AND REINSTALL THE EXISTING AC SURGE PROTECTION DEVICE.
- (X6) REMOVE AND REINSTALL THE EXISTING PTZ SURGE PROTECTION DEVICE.
- (X7) REMOVE AND REINSTALL EXISTING QUAD OUTLET.

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = SALASL	DESIGNED - JM	REVISED -	
	DRAWN - AW	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED - DM	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80
ITS DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	252
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
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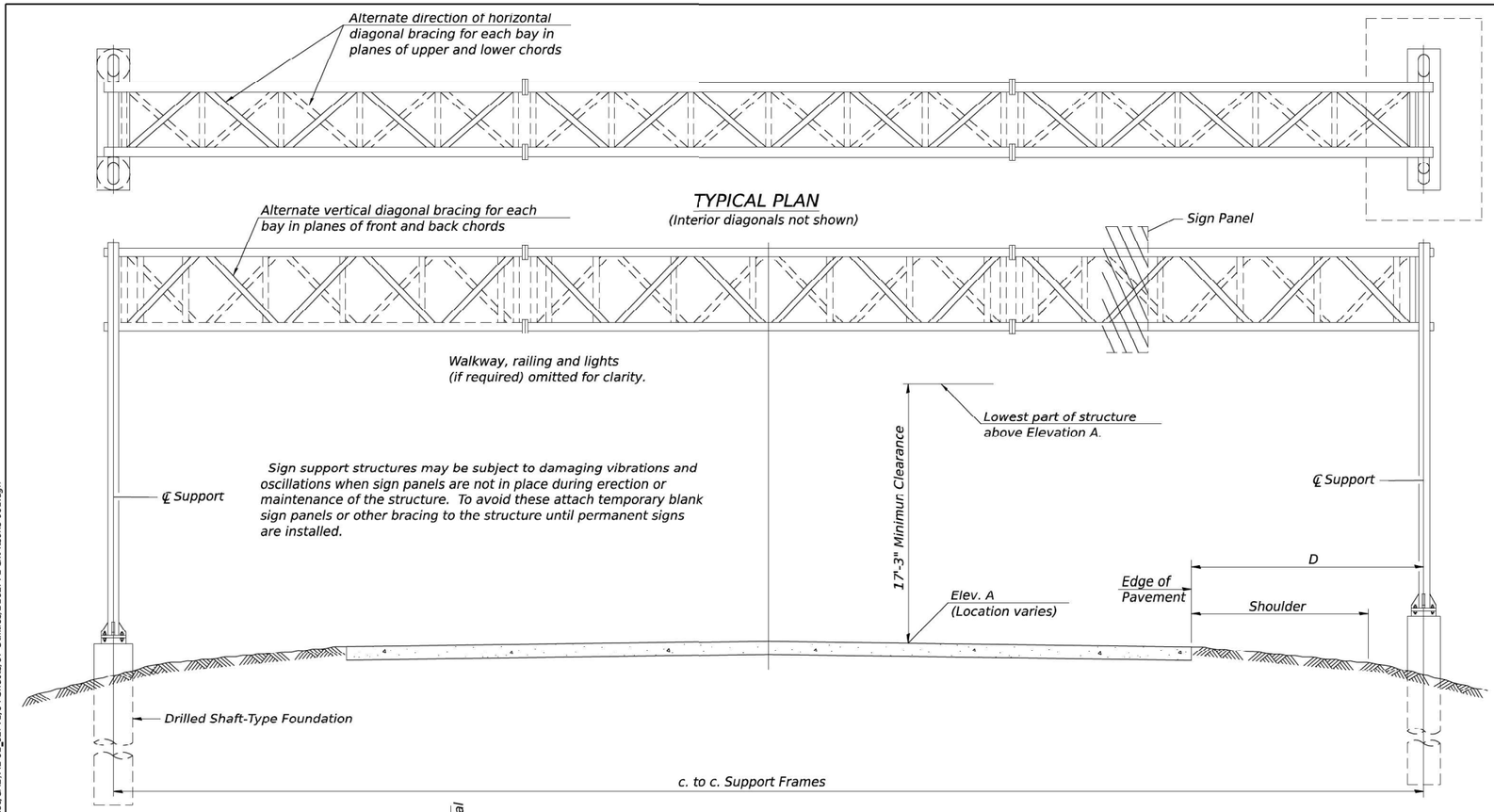
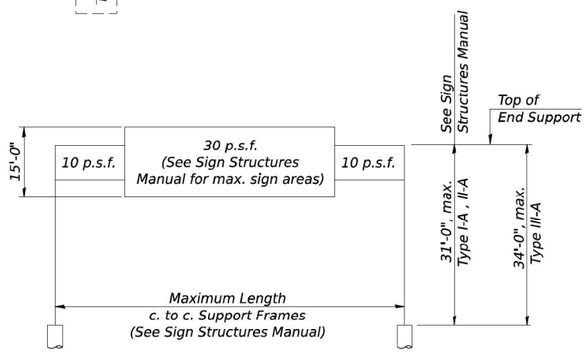
NOT IN CONTRACT
FOR INFORMATION ONLY



TYPICAL PLAN
(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S099I080R123.5	208+90	III-A	72'-0"	600.03	22'-6"	8'-0"	240 sqft

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.*

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Artie 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be eaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

FOUNDATION REMOVAL: Existing foundation removal shall be at least 3 feet below existing ground.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	Foot	72
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	39
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	20.1
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	4

NOT IN CONTRACT
FOR INFORMATION ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01 Stantec/CAD/ML-01_62P71/04 Sheets/07-Utilities/D162P71-sht-itsohs-001.dgn
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		CHECKED - BAR	REVISED -	
	PLOT SCALE = 32.1213 ' / In.	DRAWN - CS	REVISED -	
	PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -	

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS
SHEET 1 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	273
		CONTRACT NO. 62P71		
	ILLINOIS FED. AID PROJECT I4W(714)			

MODEL: 2D SHEET H
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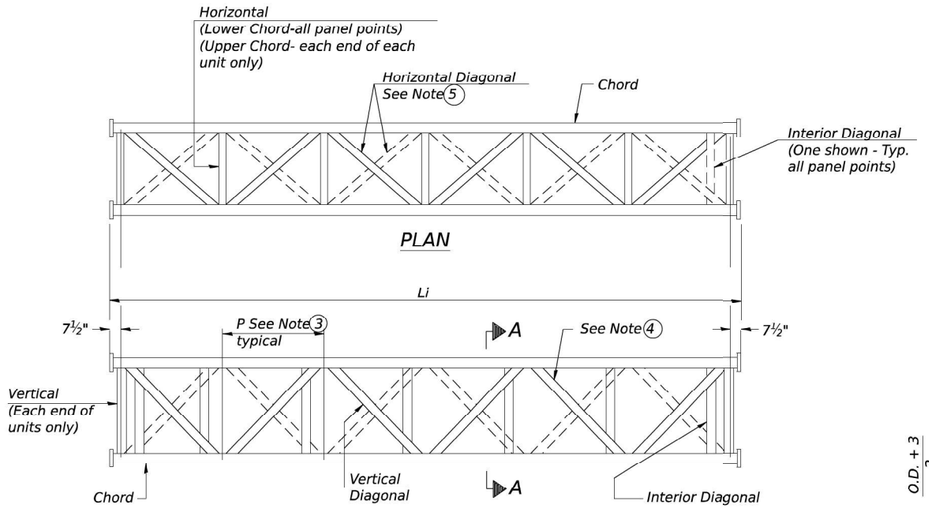
		DRAWN -	REVISED -	
	PLOT SCALE = 0.166667 ' / IN.	CHECKED -	REVISED -	
	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

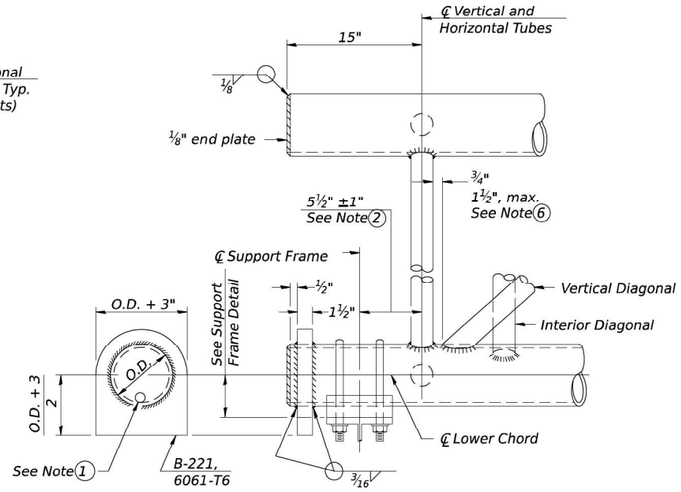
I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	253
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

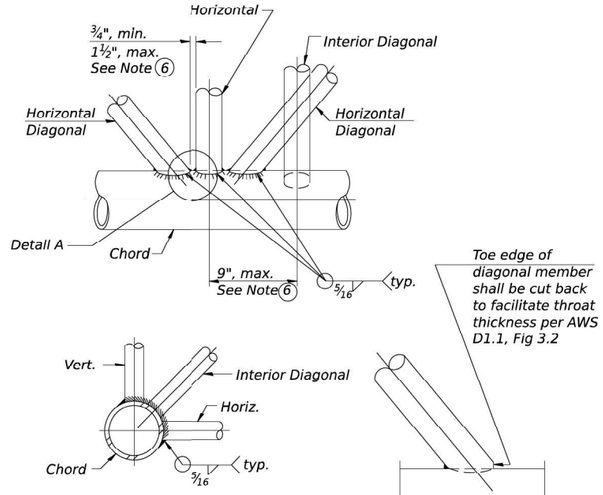
NOT IN CONTRACT
FOR INFORMATION ONLY



ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.

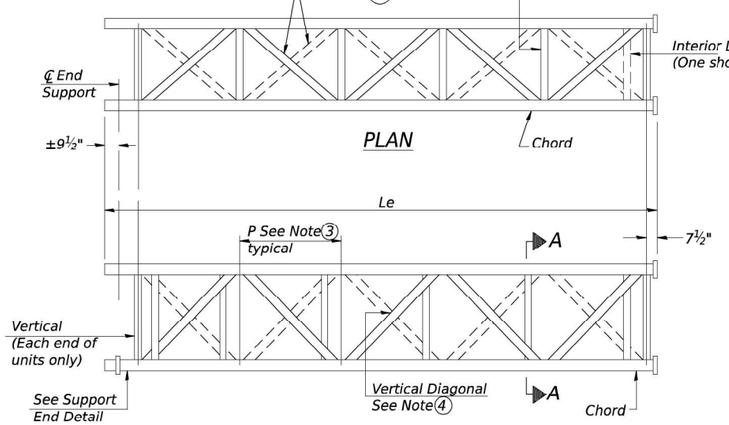


SUPPORT END DETAIL FOR EXTERIOR UNIT

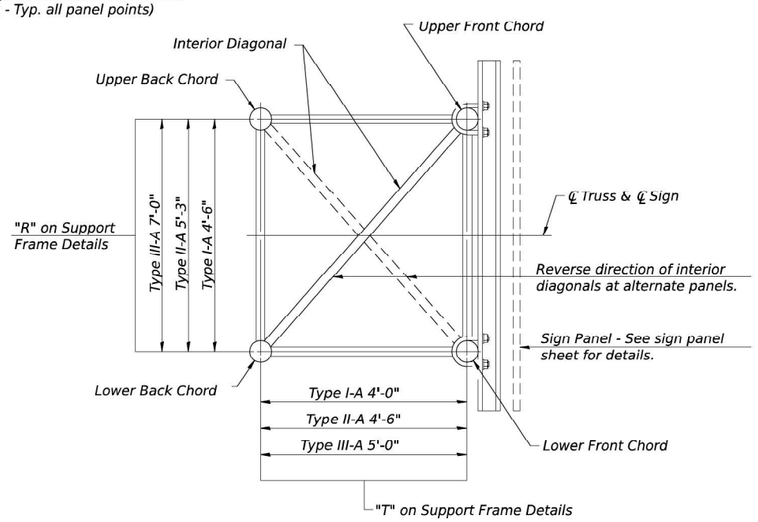


TYPICAL JOINT DETAILS

DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

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OS-A-2 2-17-2017

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USER NAME = RussellBr	DESIGNED - CS	REVISED -	
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PLOT SCALE = 32.0000 ' / In.	DRAWN - CS	REVISED -	
PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A
SHEET 2 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	274
		CONTRACT NO. 62P71		
	ILLINOIS	FED. AID PROJECT	I4W(714)	

exp.

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.166667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	254
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-ow.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401401180022/01-Stantec/CAD/ML-01_62P71/04-Sheets/07-Utilities/D162P71-sht-itsohs-002.dgn

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-0110MS32656\62R19-SHT-62P71-DMS-02.DGN

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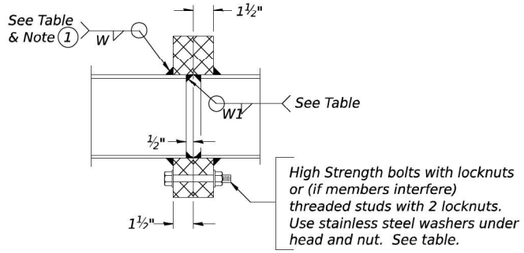
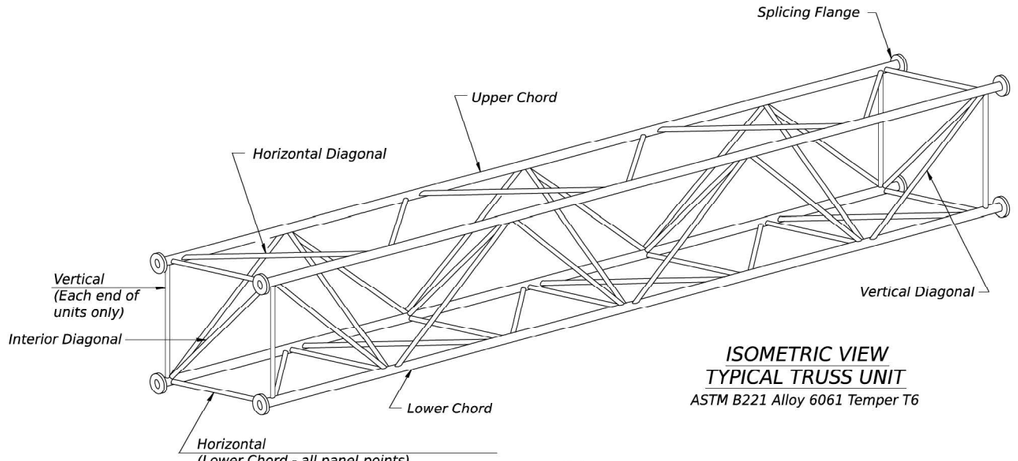
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical,Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
1S099I080R123.5	208+90	III-A	7	36'-10½"	5'-0"	0	——	——	——	7"	5/16"	3¼"	5/16"	7/8"	6	1"	7/16"	5/16"	11½"	15"



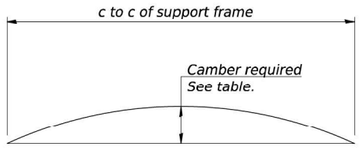
SECTION B-B

(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

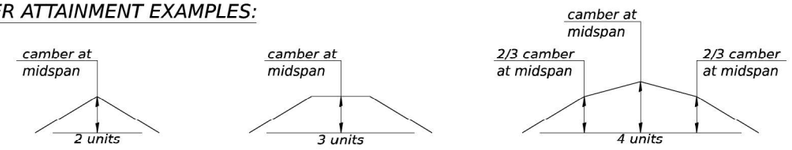
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



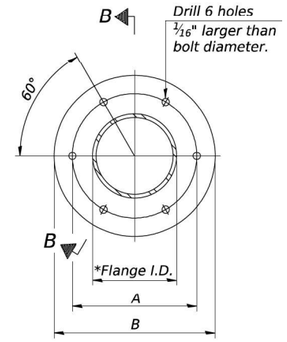
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

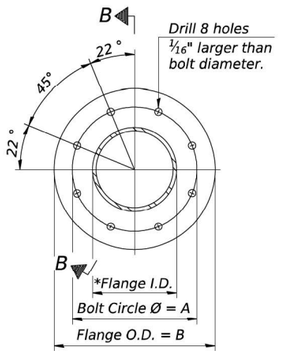
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2 2-17-2017

USER NAME = RussellBr	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -	

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I–A, II–A AND III–A
SHEET 3 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	275
		CONTRACT NO. 62P71		
	ILLINOIS FED. AID PROJECT I4WI(714)			

USER NAME = SALASL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 0.166667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	255
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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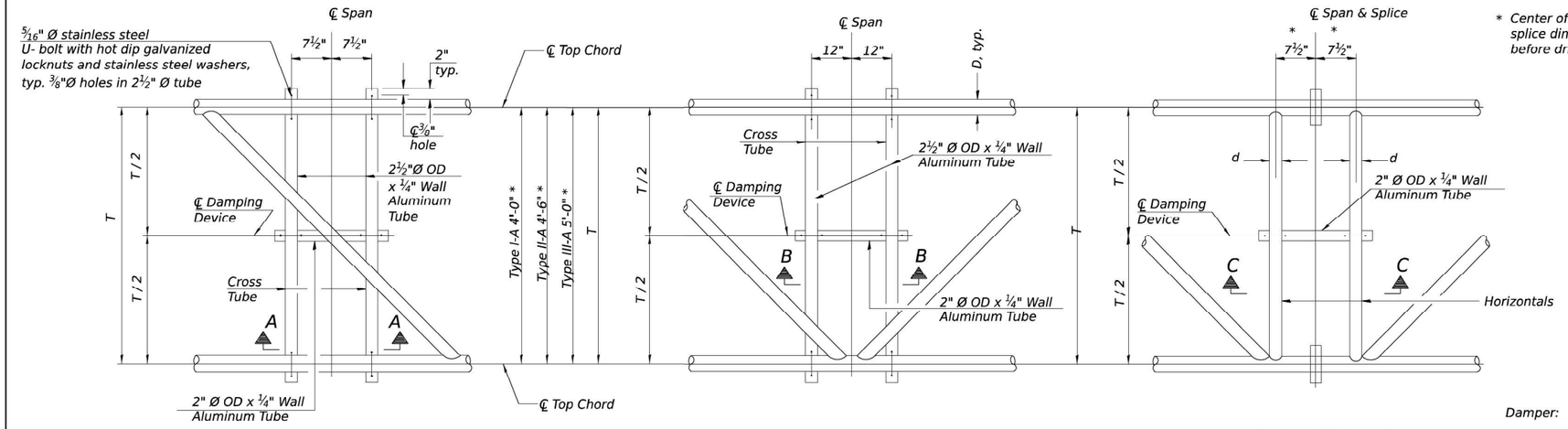


* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

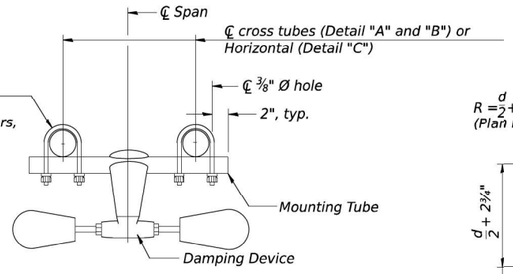
PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29"minimum between ends of weights) Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

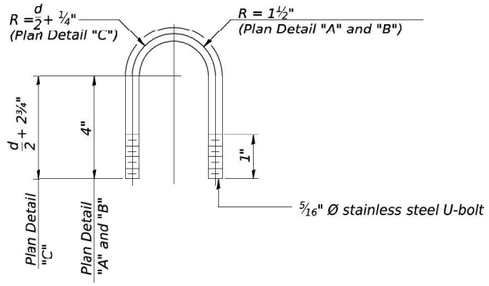
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

SECTION A-A



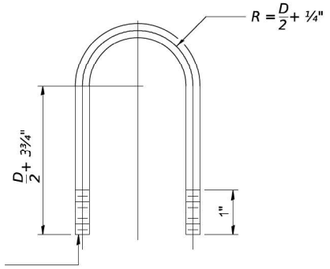
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)

SECTION B-B

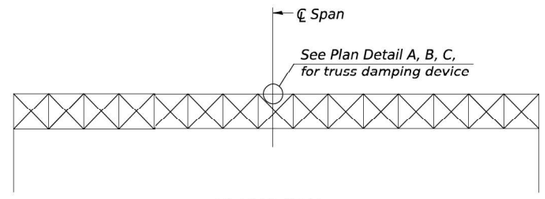


DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

SECTION C-C



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

OS-A-D 2-17-2017

USER NAME = RussellBr	DESIGNED - CS	REVISED -	
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DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE
SHEET 4 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	276
		CONTRACT NO. 62P71		
		ILLINOIS	FED. AID PROJECT	I4W(714)

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	256
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

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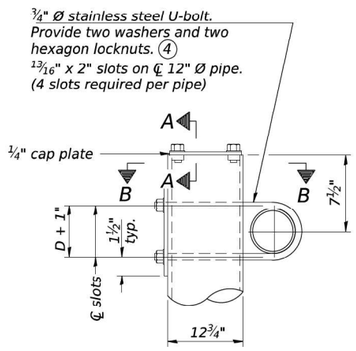
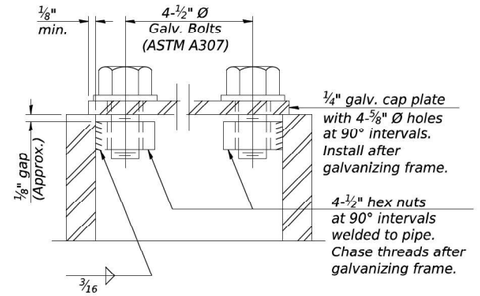
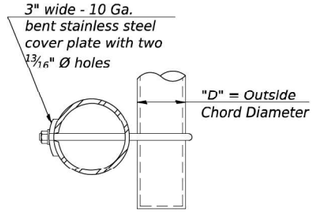


DETAIL A

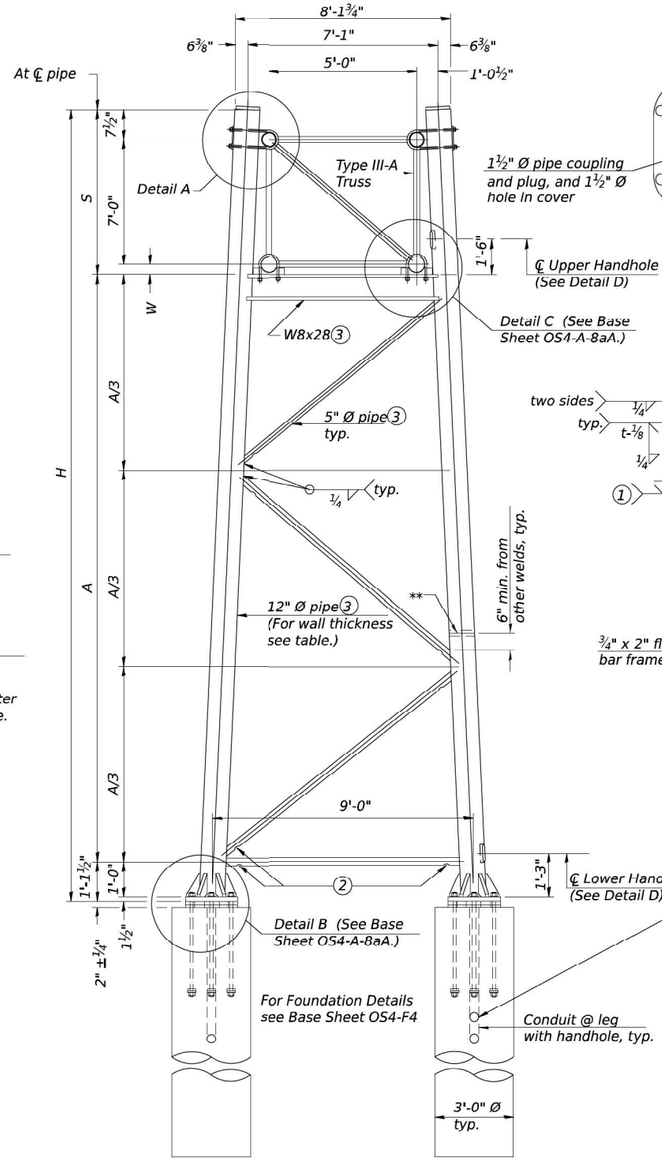


SECTION A-A

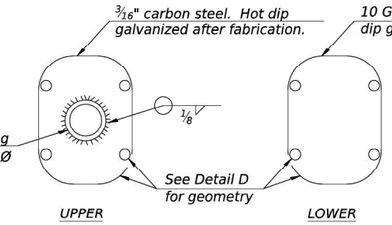
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



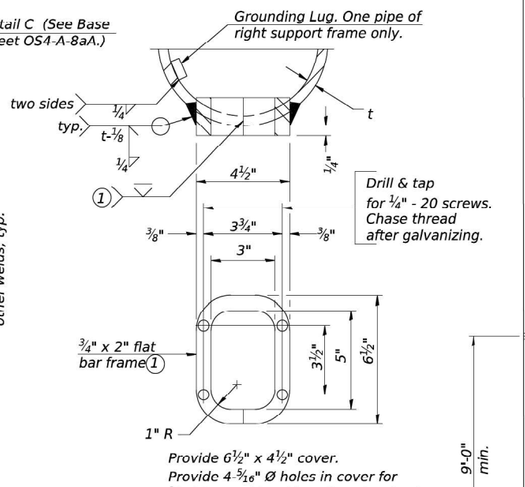
SECTION B-B



SIDE ELEVATION

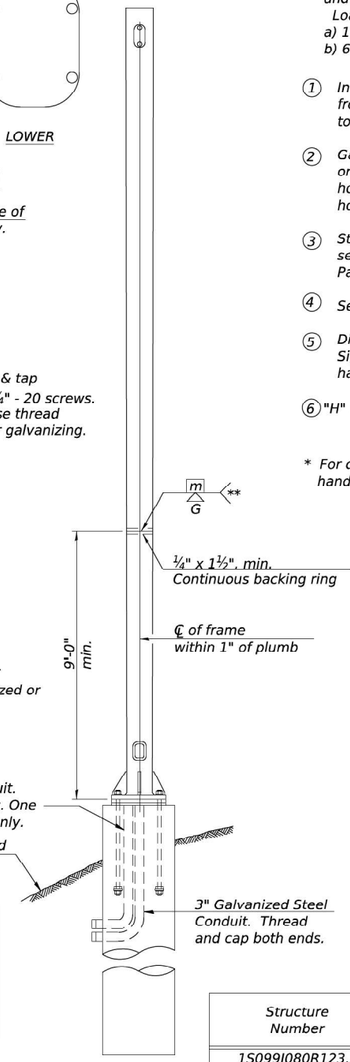


HANDHOLE COVERS



Provide 6½" x 4½" cover.
Provide 4-5/16" Ø holes in cover for ¼"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D



END ELEVATION

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4¾"	8'-0¼"
8½"	5½"	8'-1"
9"	5¾"	8'-1¼"

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

(1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

(6) "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support Left	Support Right	Pipe Wall Thickness	H (6)	A
1S099I080R123.5	208+90	-	X	0.33"	30'-1¾"	21'-0"
1S099I080R123.5	208+90	X	-	0.33"	26'-9¾"	17'-8"

TRUSS SUPPORT DETAILS

(12" Ø Pipe-Type III-A Truss

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

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MODEL: Default
FILE NAME: pw://transystems-ow.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401401180022/01-Stantec/CAD/ML-01_62P71/04-Sheets/07-Utilities/D162P71-sht-tsohs-005.dgn

USER NAME = RussellBr	DESIGNED - CS		REVISED -
	CHECKED - BAR		REVISED -
PLOT SCALE = 32.0000 ' / In.	DRAWN - CS		REVISED -
PLOT DATE = 03/18/2022	CHECKED - BAR		REVISED -

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OVERHEAD SIGN STRUCTURES – SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS
SHEET 5 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	277
		CONTRACT NO. 62P71		
	ILLINOIS	FED. AID PROJECT	I4W(714)	

MODEL: 2D SHEET H
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USER NAME = SALASL	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -		REVISED -
PLOT DATE = 11/12/2025	DATE - 11/12/2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	257
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

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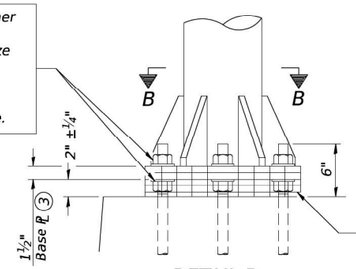
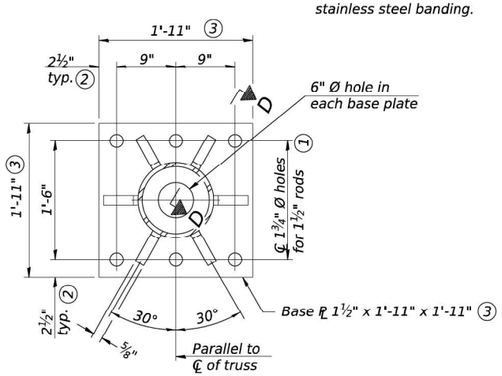
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



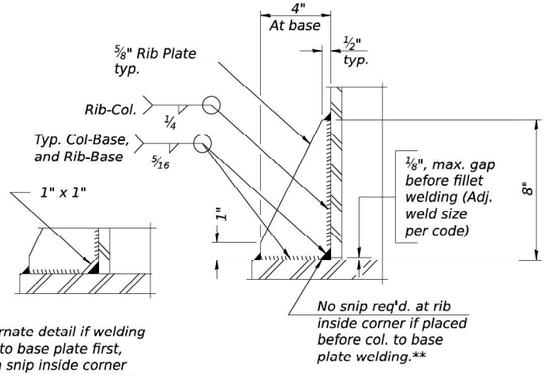
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, ¼" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.

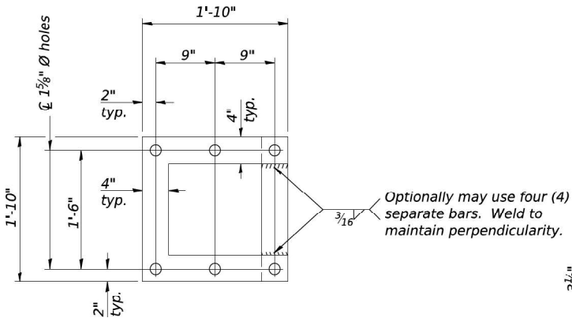


SECTION B-B

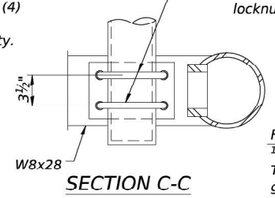


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D

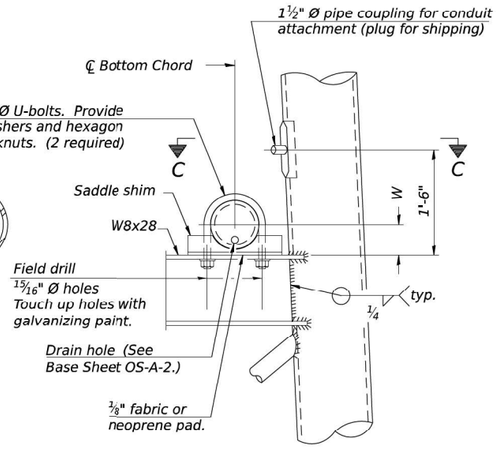


POSITIONING PLATE(S)

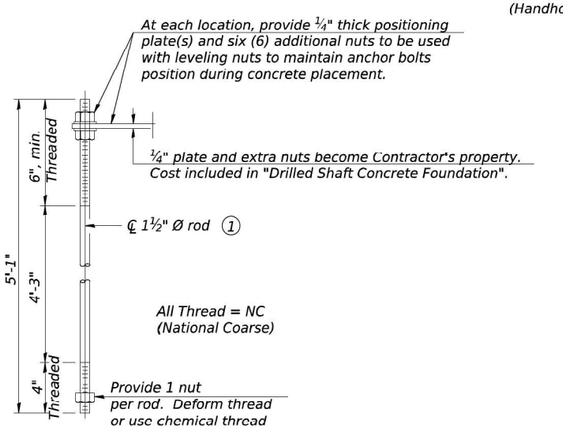


SECTION C-C

(Handhole cover not shown)

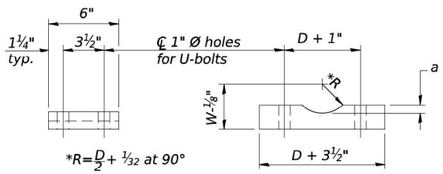


DETAIL C



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.



*R=$\frac{D}{2}$ + 1⁄32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7"	1"
8½"	1¼"
9"	1⅜"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

① 1¾" Ø rod, 2" Ø holes

② 2¾" edge distance

③ Base ℄ 1⅝" x 1'-11½" x 1'-11½"

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MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01 Statec/CAD/ML-01_62P71/04-Sheets/07-Utilities/D162P71-sht-tsohs-006.dgn

OS4-A-8aA 2-17-2017

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PLOT SCALE = 32.0000 ' / in.	DRAWN - CS	REVISED -	
PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS
SHEET 6 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	278
		CONTRACT NO. 62P71		
	ILLINOIS FED. AID PROJECT (4WJ)(714)			

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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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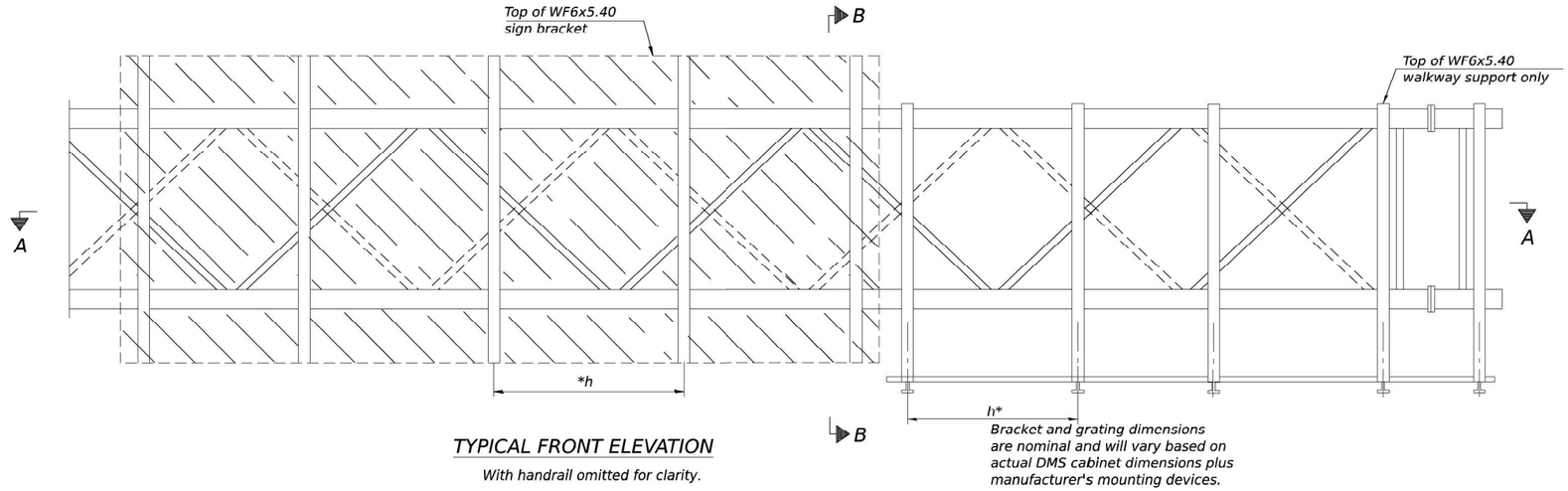
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY

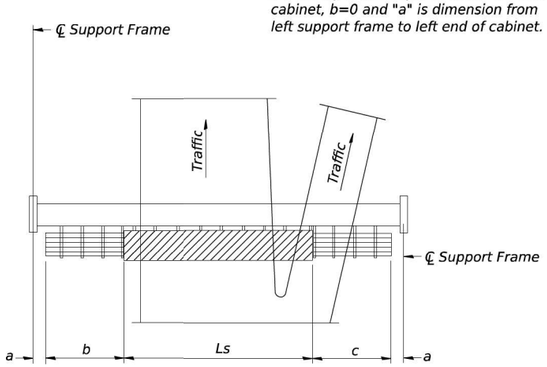


TYPICAL FRONT ELEVATION

With handrail omitted for clarity.

Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

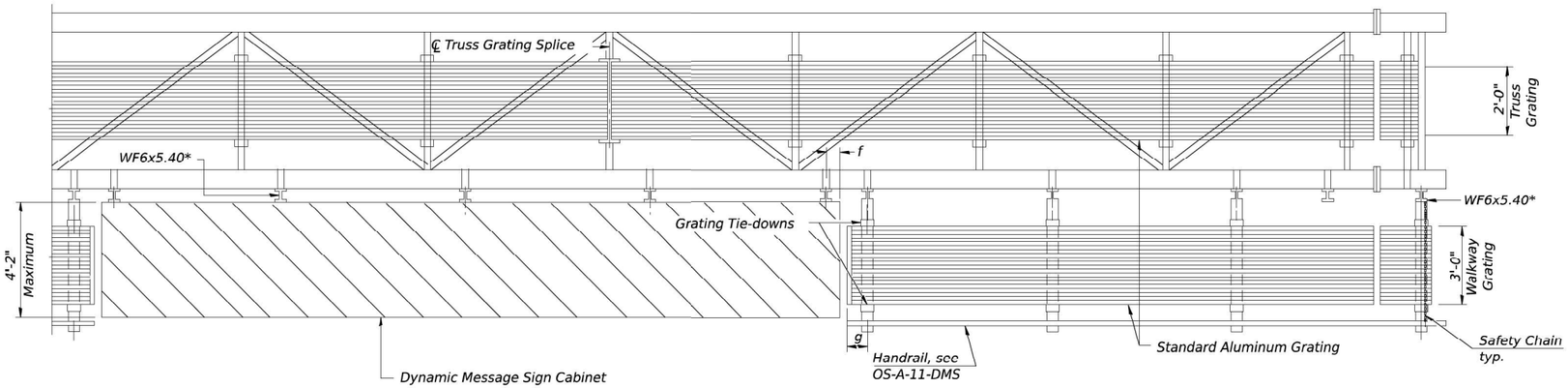
① If walkway is required left of the DMS cabinet, a=1'-6" and b=walkway lengths. If walkway is not required left of the DMS cabinet, b=0 and "a" is dimension from left support frame to left end of cabinet.



PLAN

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



SECTION A-A

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Grating and handrail splices placed as needed.

BRACKET TABLE

WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Structure Number	Station	a	b	c	Ls	Walkway Grating and Handrail Lengths
1S099I080R123.5	208+90	1'-6"	15'-0"	24'-0"	30'-0"	39'-0"

Notes:
* Space walkway brackets WF6x5.40 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

OS-A-9-DMS 2-17-2017

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PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -	

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS
SHEET 7 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	279
		CONTRACT NO. 62P71		
	ILLINOIS FED. AID PROJECT I4WJ(714)			

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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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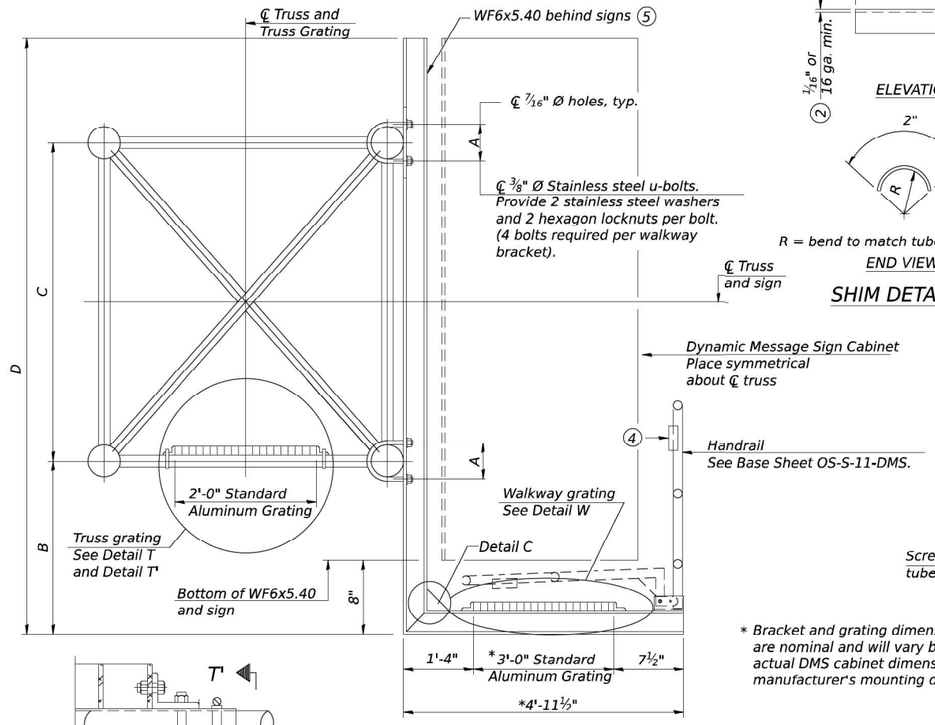
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

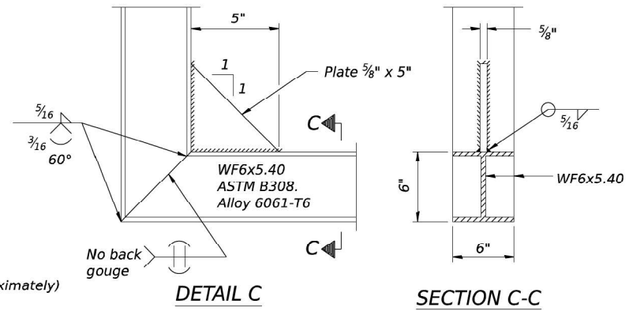
NOT IN CONTRACT
FOR INFORMATION ONLY



SECTION B-B

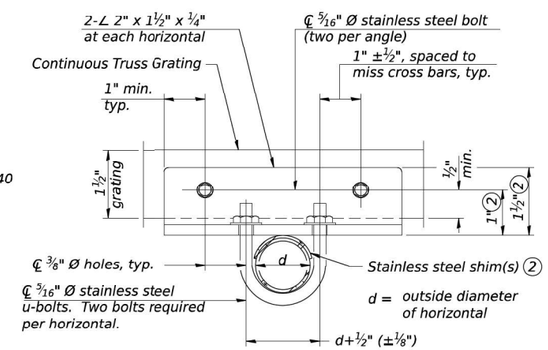
* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

SHIM DETAIL

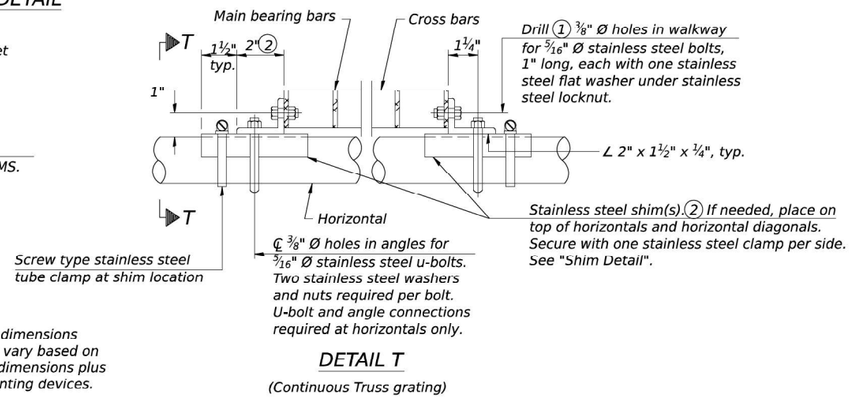


DETAIL C

SECTION C-C

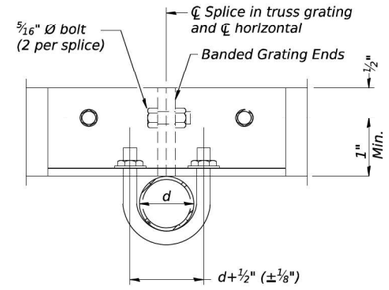


SECTION T-T

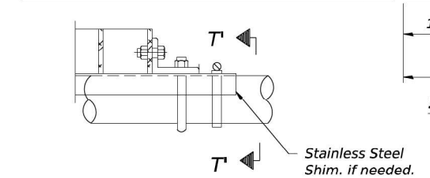


DETAIL T

(Continuous Truss grating)

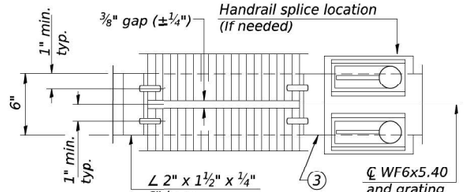


SECTION T'-T'

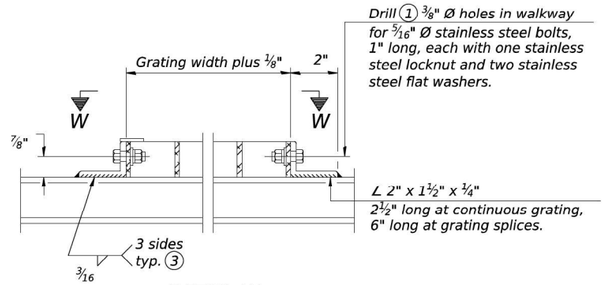


DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

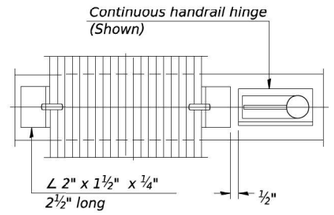


(AT WALKWAY GRATING SPLICE)



DETAIL W

(Walkway grating)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	(6) B	C	(6) D
1S099I080R123.5	208+90	7½"	1'-2"	7'-0"	8'-8"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11-DMS.)

(4) PL ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

(6) Based on actual height of tallest sign given on OS-A-1.

NOT IN CONTRACT
FOR INFORMATION ONLY

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OS-A-10-DMS 2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS
SHEET 8 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	280
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	ILLINOIS	FED. AID PROJECT	I4W(714)	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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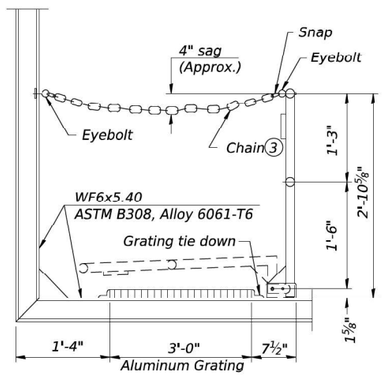
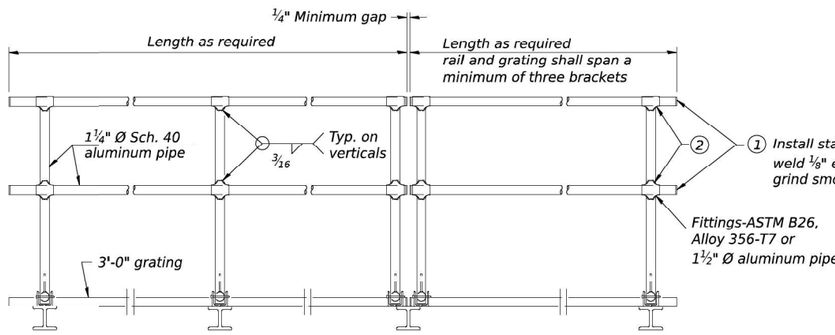
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

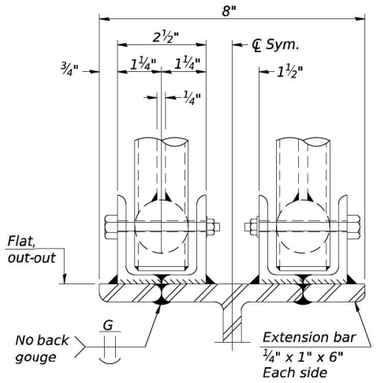
NOT IN CONTRACT
FOR INFORMATION ONLY



SIDE ELEVATION
(Showing safety chain w/o sign)



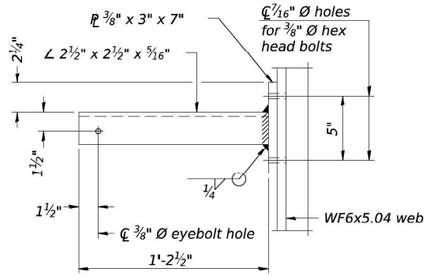
FRONT ELEVATION



ELEVATION AT HANDRAIL JOINT (4)

HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

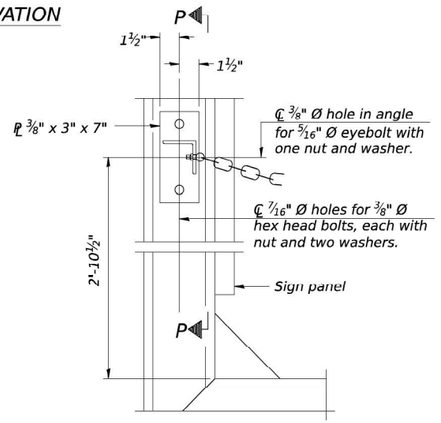


SECTION P-P

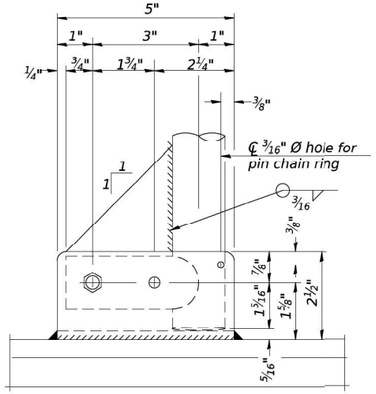
(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for ⅜" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)

(3) 3/16" type 304L stainless steel chain, approximately 12 links per foot.

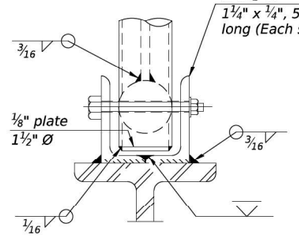
(4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.



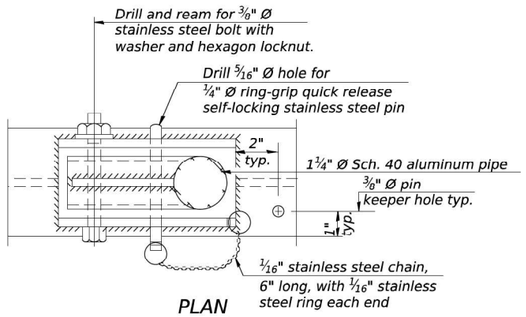
ALTERNATE SAFETY CHAIN ATTACHMENT



SIDE ELEVATION

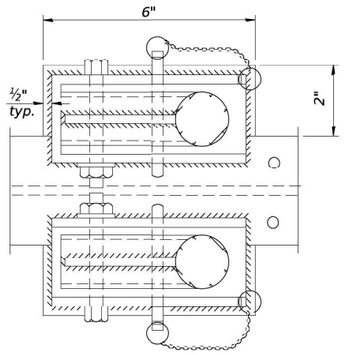


FRONT ELEVATION
See "ELEVATION" at right for dimensions.



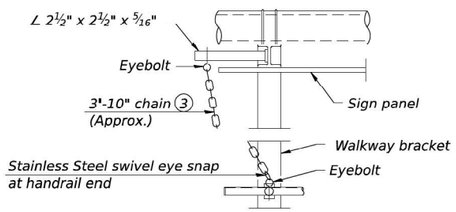
PLAN

DETAIL E HANDRAIL HINGE

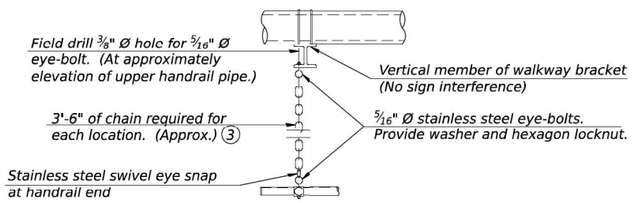


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)



SAFETY CHAIN
One required for each end of each walkway.

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OS-A-11-DMS 2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS
SHEET 9 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	281
		CONTRACT NO. 62P71		
	ILLINOIS	FED. AID PROJECT	I4W(714)	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

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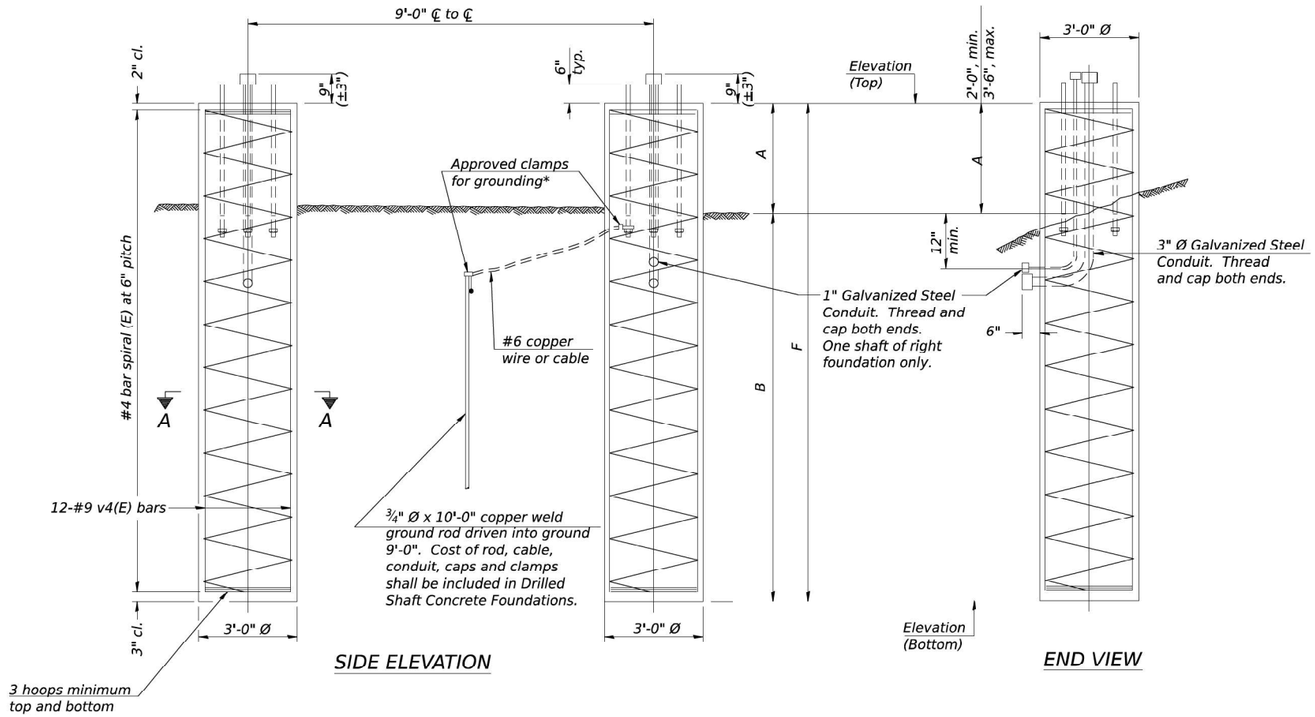
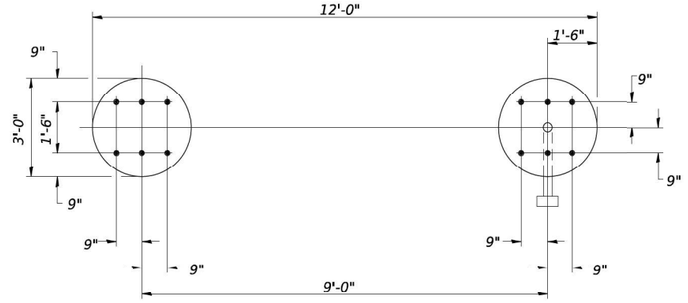


SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

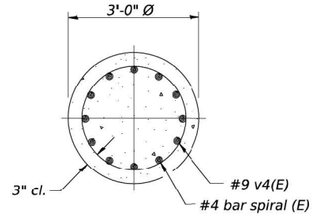
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
1S099I080R123.5	208+90	-	-	-	-	-	599.49	578.99	2'-6"	18'-0"	20'-6"	10.7

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PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS
SHEET 10 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	282
		CONTRACT NO. 62P71		
	ILLINOIS	FED. AID PROJECT	I4W(714)	

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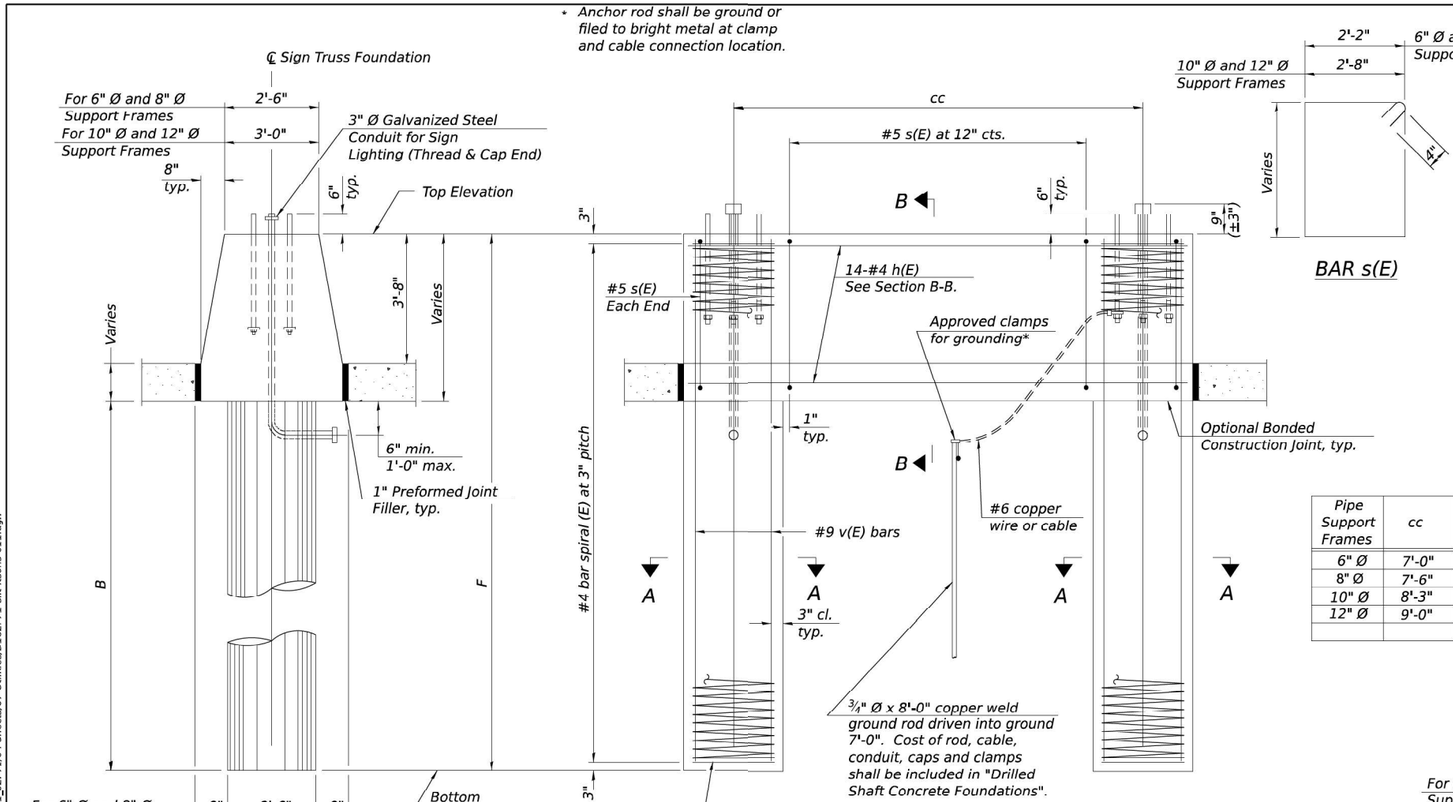
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	262
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

NOT IN CONTRACT
FOR INFORMATION ONLY



NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

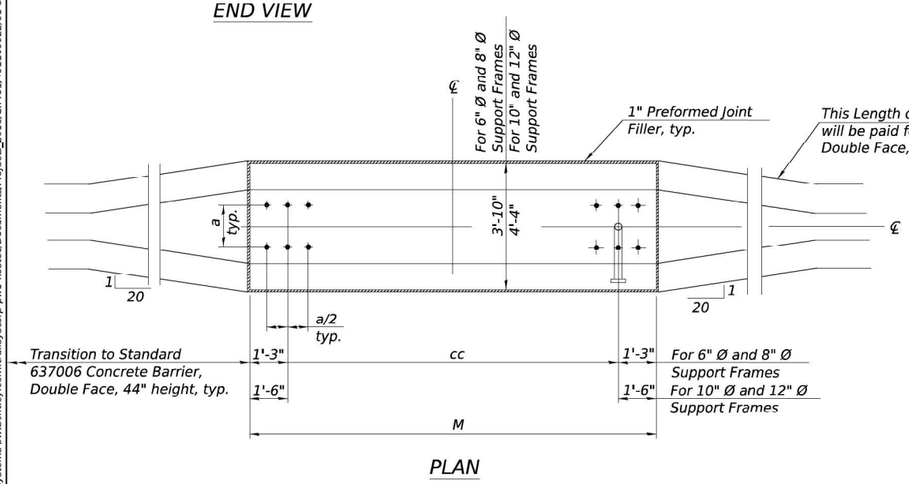
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

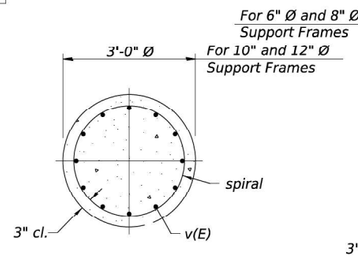
Bar	Number	Size	Length	Shape
h(E)	14	#4	M less 4"	
s(E)	Varies	#5	Varies	
v(E)	16	#9	F less 0'-5"	
v(E)	24	#9	F less 0'-5"	
#4(E) bar spiral. See Side Elevation				

6" Ø and 8" Ø Support Frame
10" Ø and 12" Ø Support Frame

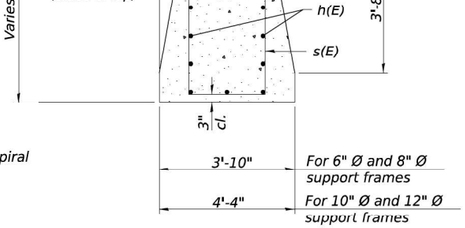
Pipe Support Frames	cc	M	a	a/2
6" Ø	7'-0"	9'-6"	0'-11"	5½"
8" Ø	7'-6"	10'-0"	1'-1½"	6¾"
10" Ø	8'-3"	11'-3"	1'-3"	7½"
12" Ø	9'-0"	12'-0"	1'-6"	9"



PLAN



SECTION A-A



SECTION B-B

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
1S099I080R123.5	208+90	602.82	580.07	18'-0"	22'-9"	-	-	-	-	9.4

NOT IN CONTRACT
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	CHECKED - BAR	REVISED -
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PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
SHEET 11 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	283
		CONTRACT NO. 62P71		
	ILLINOIS FED. AID PROJECT I4WJ(714)			

MODEL: 2D SHEET H
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	DRAWN -	REVISED -
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62P71 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	263
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG SS-OSB-01

WEI Job No.: 255-39-01
Client: Stantec
Project: I-80 Reconstruction, Ridge Road to Houbolt Road
Location: Will County, Illinois

Datum: NAVD 88
Elevation: 599.08 ft
North: 1749402.80 ft
East: 1009437.48 ft
Station: 209+64.84
Offset: 22.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	598.2	11-inch thick ASPHALT --PAVEMENT--						
		Stiff to very stiff, brown, gray and black SILTY CLAY LOAM, trace gravel; moist --FILL-- --RDR 2--			1	2 2 4	2.38 B	17
			5		2	5 3 3	3.28 B	15
					3	6 7 5	3.28 B	17
	590.3	Black SILTY CLAY LOAM --BURIED TOPSOIL--	10		4	4 3 5	1.39 B	16
	588.6	Very stiff to hard, gray SILTY CLAY, trace gravel; moist --RDR 2--			5	2 2 4	3.50 P	15
			15		6	4 3 5	3.77 B	17
					7	4 6 6	5.90 B	20
			20		8	6 6 7	5.33 B	16
	569.1	Boring terminated at 30.00 ft	30		9	5 5 6	3.69 B	16
			25		10	6 8 8	4.00 P	15
					11	5 7 8	2.50 P	16
					12	10 10 8	2.38 B	17
			35					
			40					

GENERAL NOTES

Begin Drilling: 05-19-2022 Complete Drilling: 05-19-2022
Drilling Contractor: Wang Testing Services Drill Rig: 17B57T [91%]
Driller: KG&TC Logger: A. Scifers Checked by: J. Bensen
Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2553901.GPJ WANGENG.GDT 6/9/22

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG SS-OSB-02

WEI Job No.: 255-39-01
Client: Stantec
Project: I-80 Reconstruction, Ridge Road to Houbolt Road
Location: Will County, Illinois

Datum: NAVD 88
Elevation: 599.00 ft
North: 1749382.01 ft
East: 1009457.75 ft
Station: 209+60.15
Offset: 50.66 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	598.3	9-inch thick ASPHALT --PAVEMENT--						
		Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist --FILL-- --RDR 2--			1	3 8 7	> 4.50 P	18
			5		2	5 5 7	1.97 B	16
					3	6 7 8	NA	17
			10		4	4 4 4	NA	14
	588.5	Soft, gray CLAY LOAM, little gravel; moist --FILL-- --RDR 2--			5	8 11 6	0.33 S	13
	587.0	Hard (>4.50P), gray SILTY CLAY, trace gravel; moist --FILL--						
	586.0	Medium stiff, black and gray SILTY CLAY, trace gravel; moist --RDR 2--	15		6	10 10 8	0.50 P	19
	584.0	Stiff to hard, gray SILTY CLAY, trace gravel; moist --RDR 2--			7	6 6 7	3.69 B	16
			20		8	4 5 6	5.17 B	17
	569.0	Boring terminated at 30.00 ft	30		9	5 4 5	1.56 B	17
		--L_L(%)=29, P_L(%)=14-- --%Gravel=2.2-- --%Sand=4.7-- --%Silt=55.2-- --%Clay=37.8-- --A-6 (12)--	25		10	3 6 8	1.64 B	16
					11	3 4 5	1.72 B	17
					12	6 8 10	2.46 B	17
			35					
			40					

GENERAL NOTES

Begin Drilling: 05-19-2022 Complete Drilling: 05-19-2022
Drilling Contractor: Wang Testing Services Drill Rig: 17B57T [91%]
Driller: KG&TC Logger: A. Scifers Checked by: J. Bensen
Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2553901.GPJ WANGENG.GDT 6/9/22

NOT IN CONTRACT
FOR INFORMATION ONLY

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	PLOT DATE = 03/18/2022	CHECKED - BAR	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	2021-154-R	WILL	477	284
		CONTRACT NO. 62P71		
		ILLINOIS FED. AID PROJECT	I4W(714)	

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	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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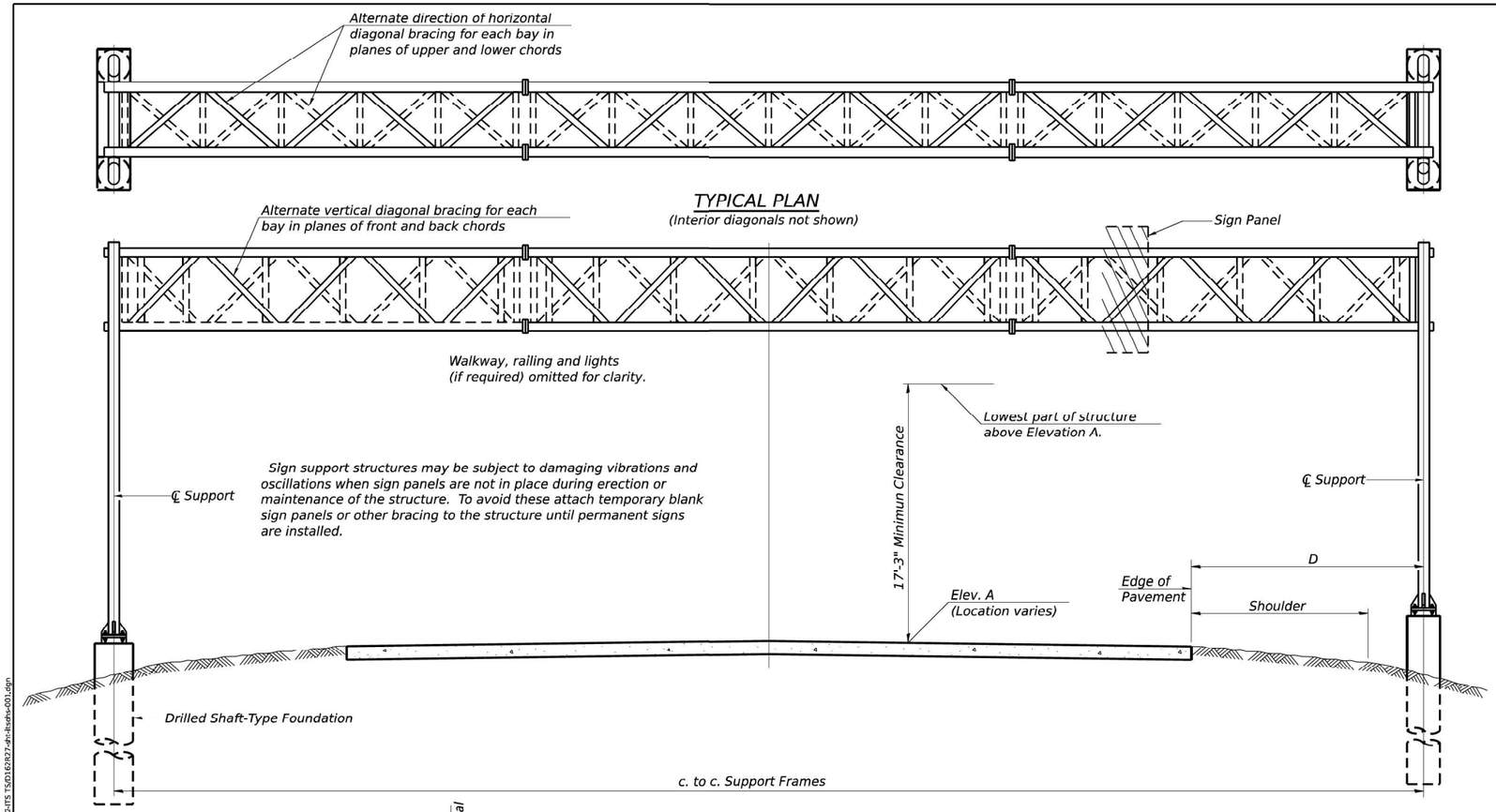
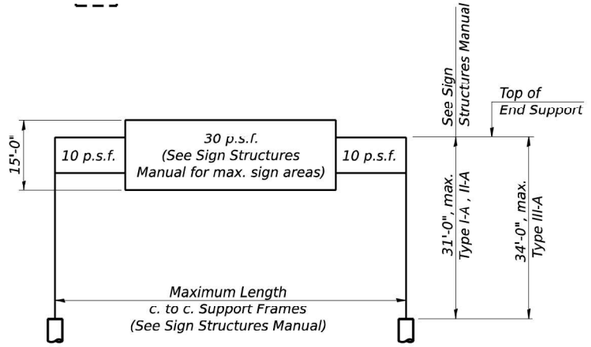
		CONTRACT NO. 62R19		
		ILLINOIS FED. AID PROJECT		

NOT IN CONTRACT
FOR INFORMATION ONLY



TYPICAL PLAN
(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S099I080R129.0	500+85	III-A	85'-0"	597.37	35'-6"	8'-0"	240 sqft

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Artie 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be eaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

FOUNDATION REMOVAL: Existing foundation removal shall be at least 3 feet below existing ground.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	Foot	85
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	52
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	28.3
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	4
ROCK EXCAVATION FOR STRUCTURES	Cu Yd	2

NOT IN CONTRACT
FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	500
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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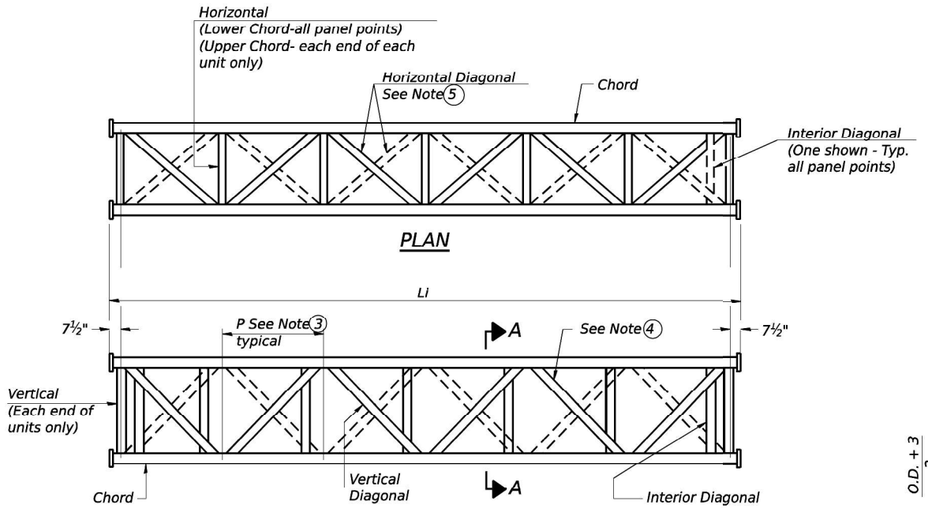
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

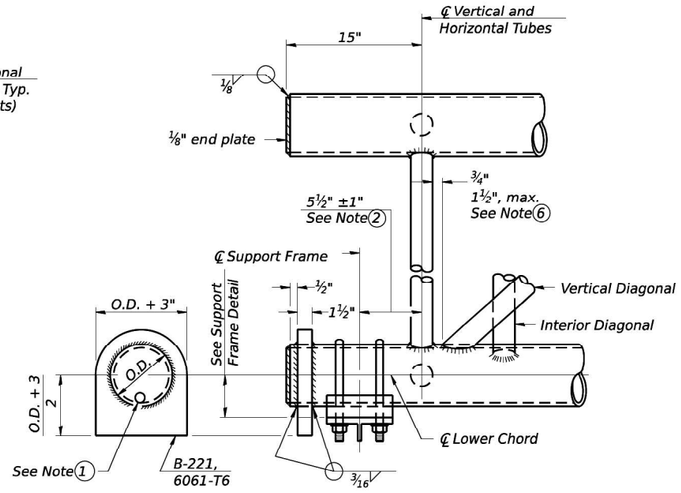
NOT IN CONTRACT
FOR INFORMATION ONLY



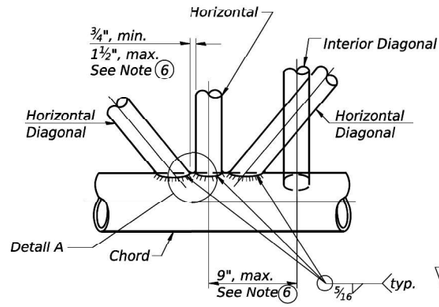
ELEVATION

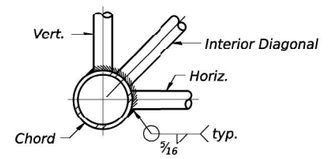
TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

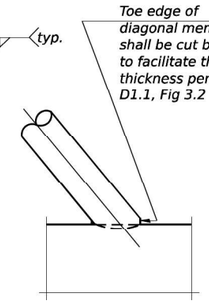


SUPPORT END DETAIL FOR EXTERIOR UNIT

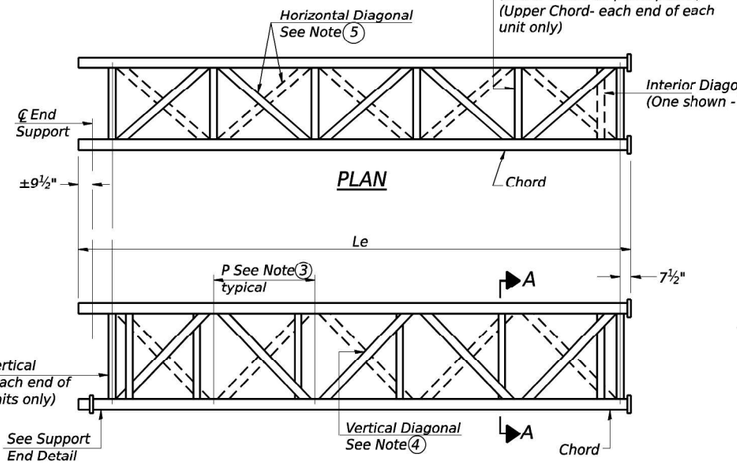




TYPICAL JOINT DETAILS



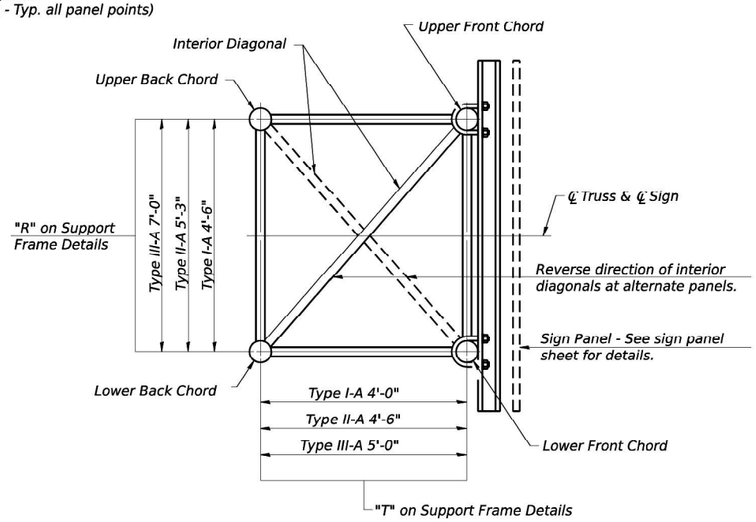
DETAIL A



ELEVATION

TYPICAL EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-2 2-17-2017

exp.

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	DRAWN - CS	REVISED -	
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PLOT DATE = 6/15/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A

SCALE: | SHEET 2 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	501
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

exp.

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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	266
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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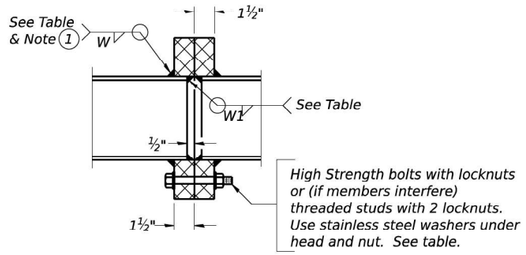
NOT IN CONTRACT
FOR INFORMATION ONLY

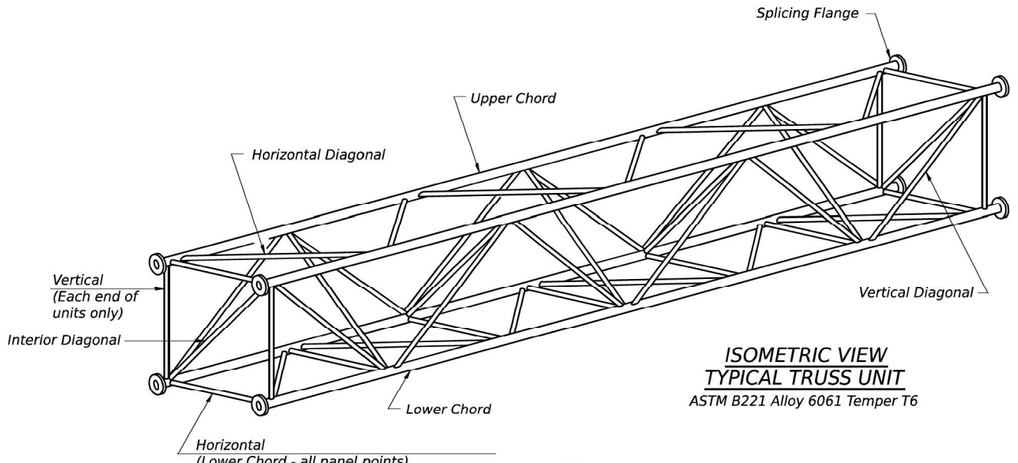
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical,Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
1S099I080R129.0	500+85	III-A	5	27'-4¾''	5'-1¼"	1	6	31'-10½"	5'-1¼"	7"	5/16"	3¼"	5/16"	1"	6	1"	7/16"	5/16"	11½"	15"



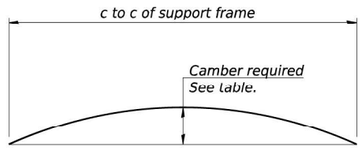
SECTION B-B

(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



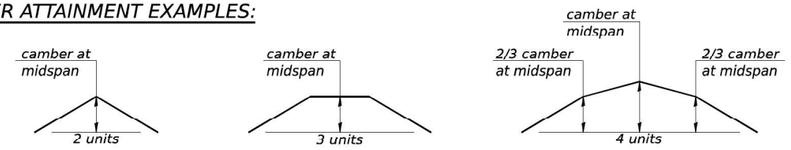
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

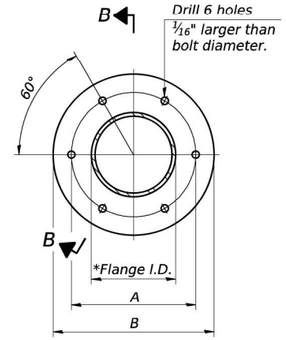


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

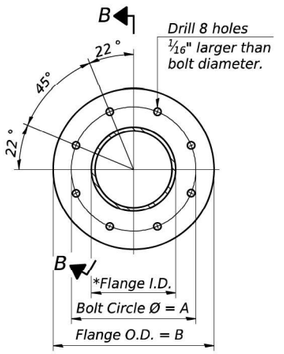
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

NOT IN CONTRACT
FOR INFORMATION ONLY

OS4-A-2 2-17-2017

USER NAME = RussellBr	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I–A, II–A AND III–A

SCALE: | SHEET 3 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	502
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

USER NAME = SALASL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	267
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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MODEL: 2D SHEET H
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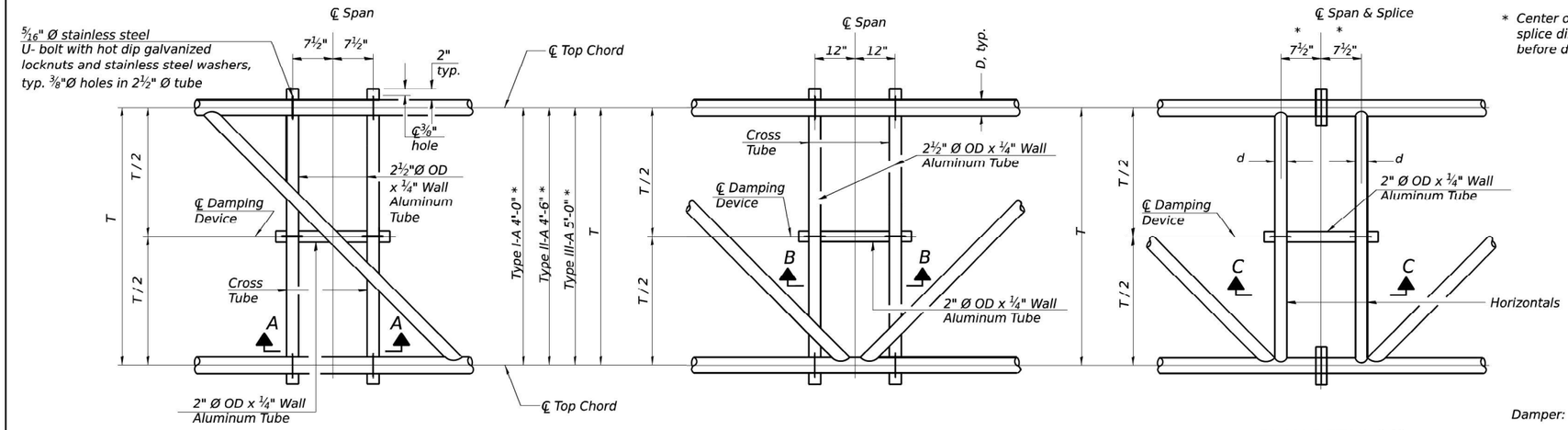
NOT IN CONTRACT
FOR INFORMATION ONLY



* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

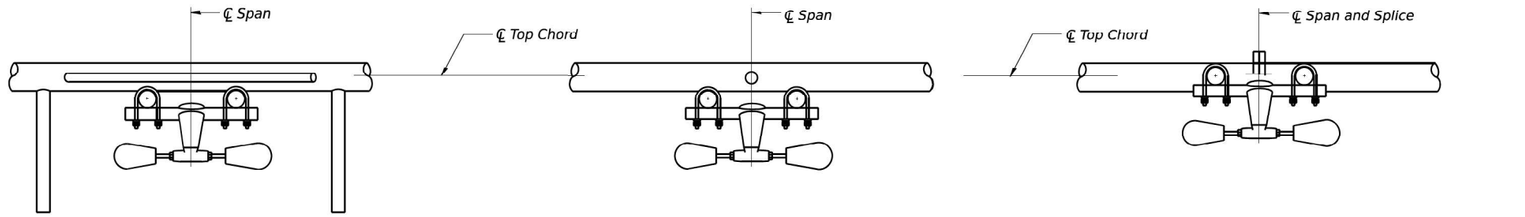
PLAN DETAIL "B"
℄ Span at Panel Point

PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

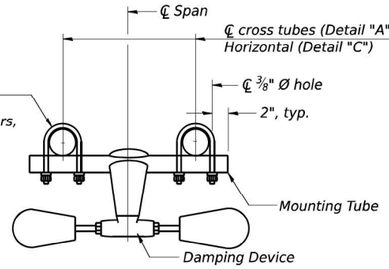
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29"minimum between ends of weights) Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

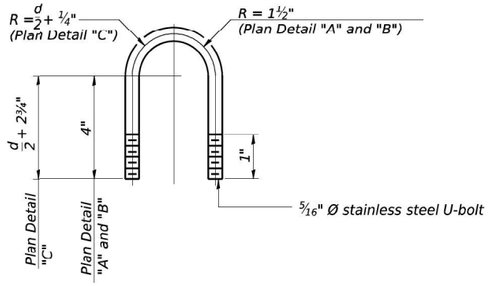


SECTION A-A



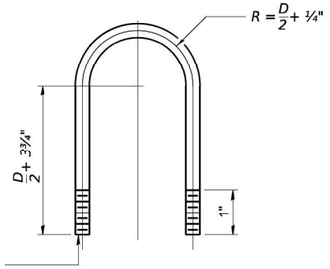
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)

SECTION B-B

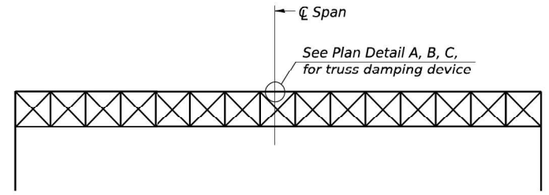


DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

SECTION C-C



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

OS-A-D 2-17-2017

USER NAME = RussellBr	DESIGNED - CS	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 31.9987 ' / In.	CHECKED - BAR	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

SCALE: | SHEET 4 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	503
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	268
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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MODEL: 2D SHEET H
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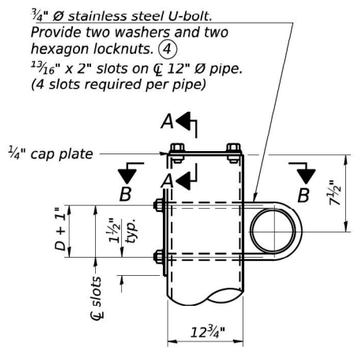
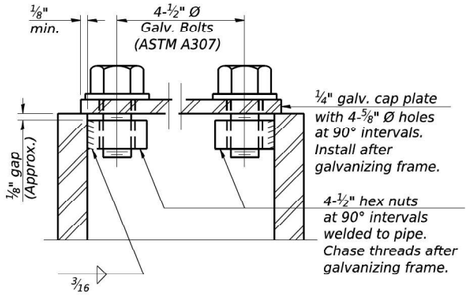
NOT IN CONTRACT
FOR INFORMATION ONLY

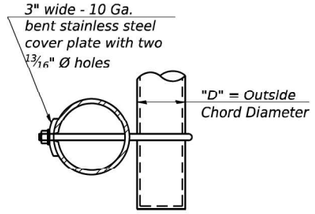


DETAIL A

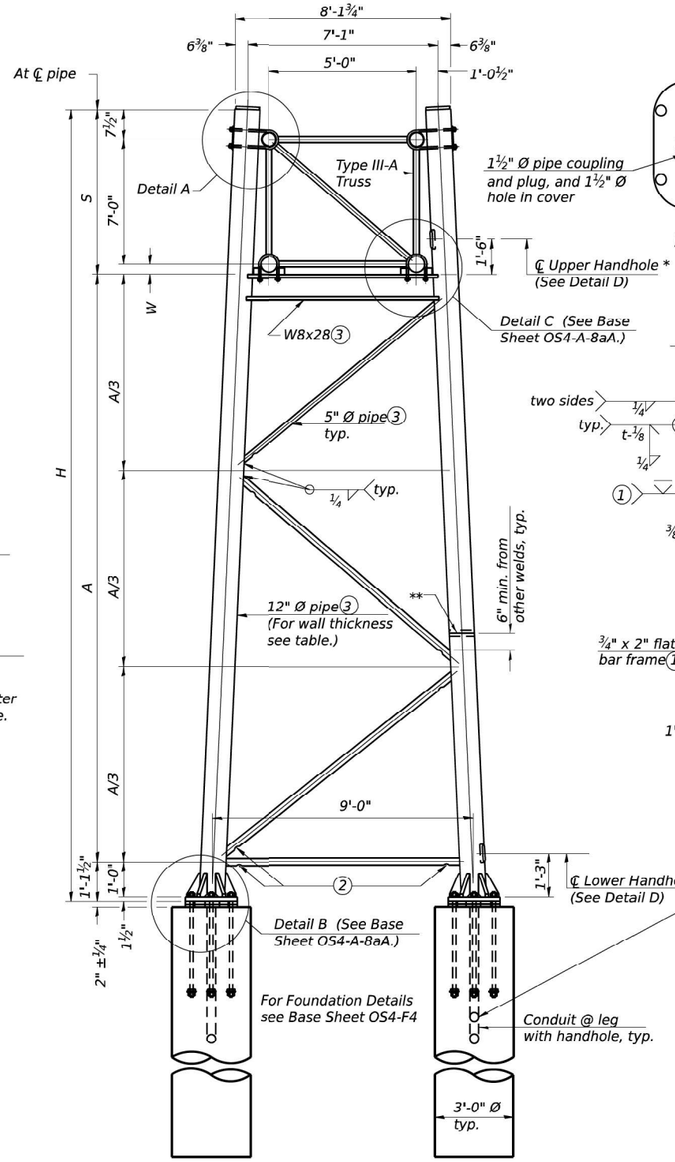


SECTION A-A

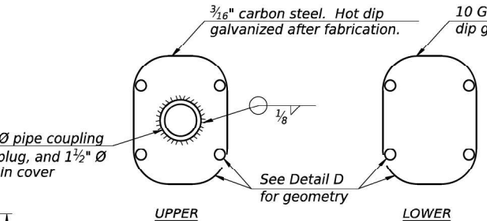
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



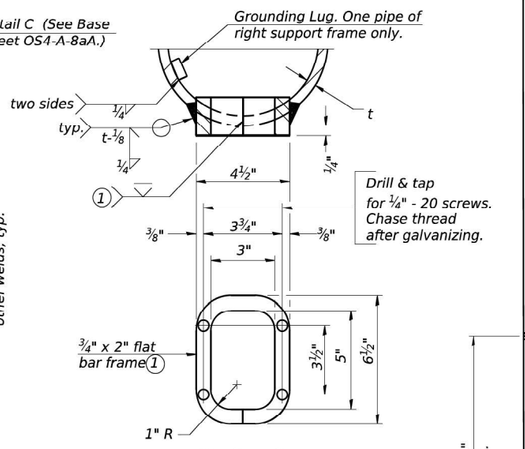
SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS

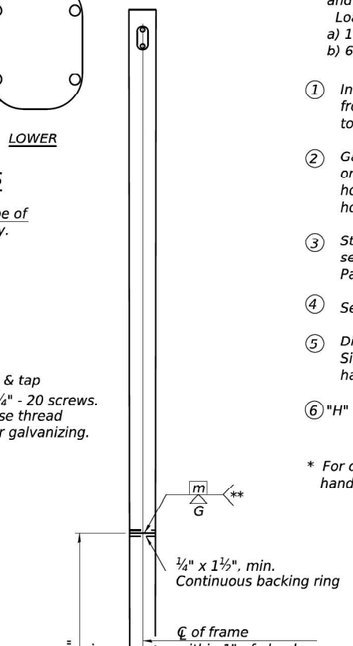


DETAIL D

1" Galvanized Steel Conduit. Thread and cap both ends. One shaft of right foundation only.

Backfill shall be placed prior to erection of support frame

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4¾"	8'-0¼"
8½"	5½"	8'-1"
9"	5¾"	8'-1¼"



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

1. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.
2. Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
3. Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
4. See General Notes for fasteners.
5. Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
6. "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

TRUSS SUPPORT DETAILS

(12" Ø Pipe-Type III-A Truss

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support Left	Support Right	Pipe Wall Thickness	H (6)	A
1S099I080R129.0	500+85	-	X	0.33"	31'-11¾"	22'-10"
1S099I080R129.0	500+85	X	-	0.33"	26'-4¾"	17'-3"

MODEL: Default
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USER NAME = RussellBr	DESIGNED - CS		REVISED -
	DRAWN - CS		REVISED -
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PLOT DATE = 6/15/2023	DATE -		REVISED -

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DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS

SCALE: | SHEET 5 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	504
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
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USER NAME = SALASL	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -		REVISED -
PLOT DATE = 11/12/2025	DATE - 11/12/2025		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

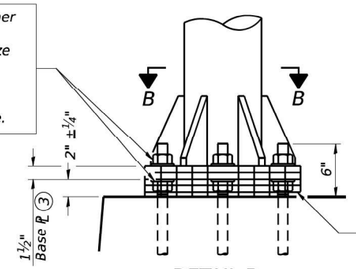
I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	269
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY

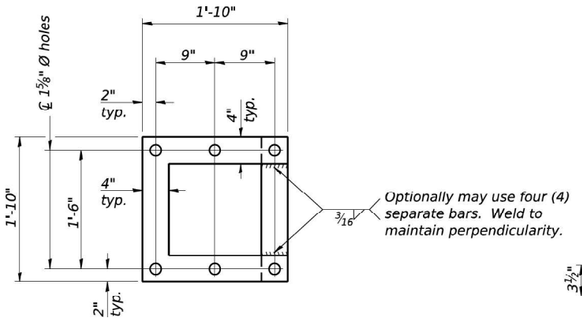
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



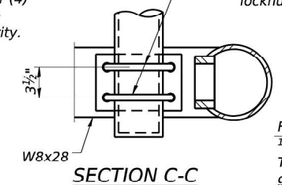
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, ¼" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.

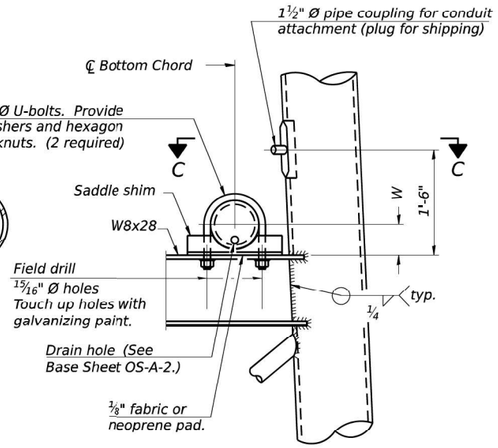


POSITIONING PLATE(S)

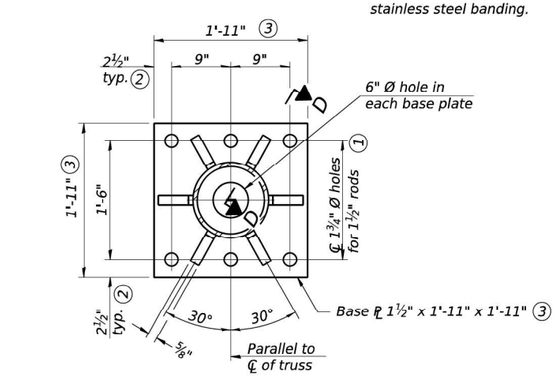


SECTION C-C

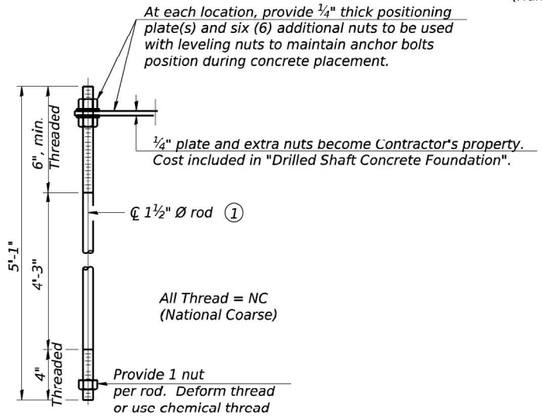
(Handhole cover not shown)



DETAIL C

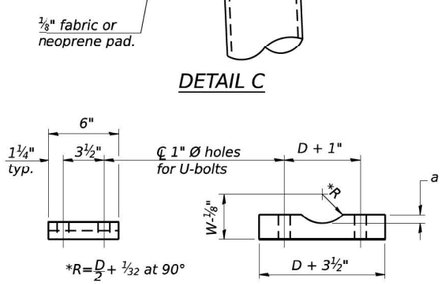


SECTION B-B



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

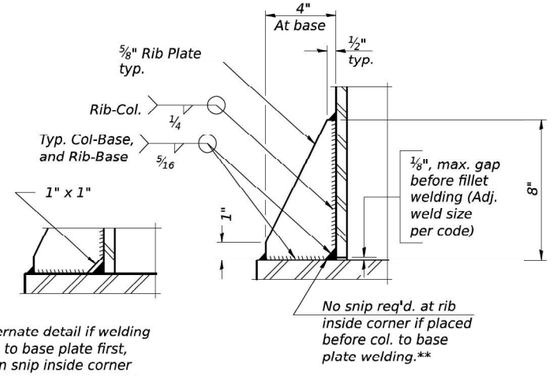


D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7"	1"
8½"	1¼"
9"	1⅜"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D

TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

① 1¾" Ø rod, 2" Ø holes

② 2¾" edge distance

③ Base ℄ 1⅝" x 1'-11½" x 1'-11½"

OS4-A-8aA 2-17-2017

USER NAME = RussellBr	DESIGNED - CS		REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS

SCALE: | SHEET 6 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	505
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

USER NAME = SALASL	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -		REVISED -
PLOT DATE = 11/12/2025	DATE - 11/12/2025		REVISED -

STATE OF ILLINOIS
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I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	270
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

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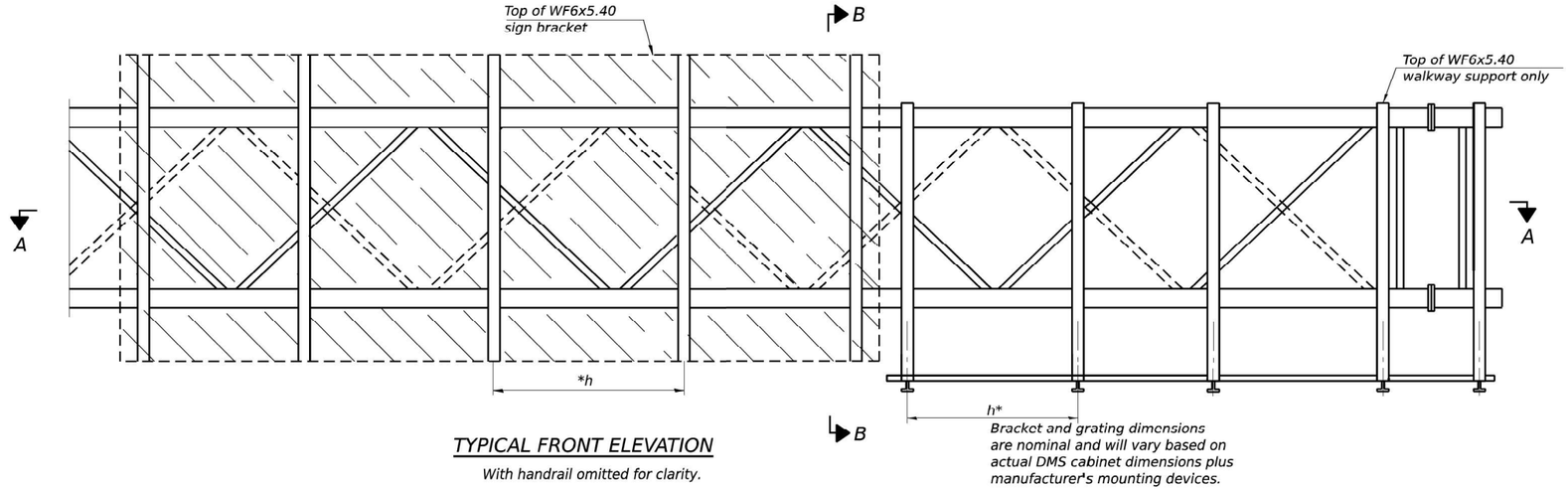
NOT IN CONTRACT
FOR INFORMATION ONLY

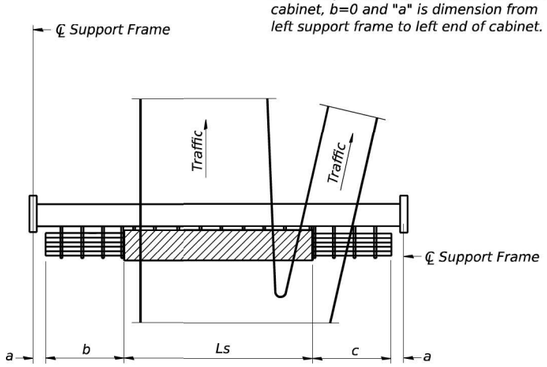


TYPICAL FRONT ELEVATION

With handrail omitted for clarity.

Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

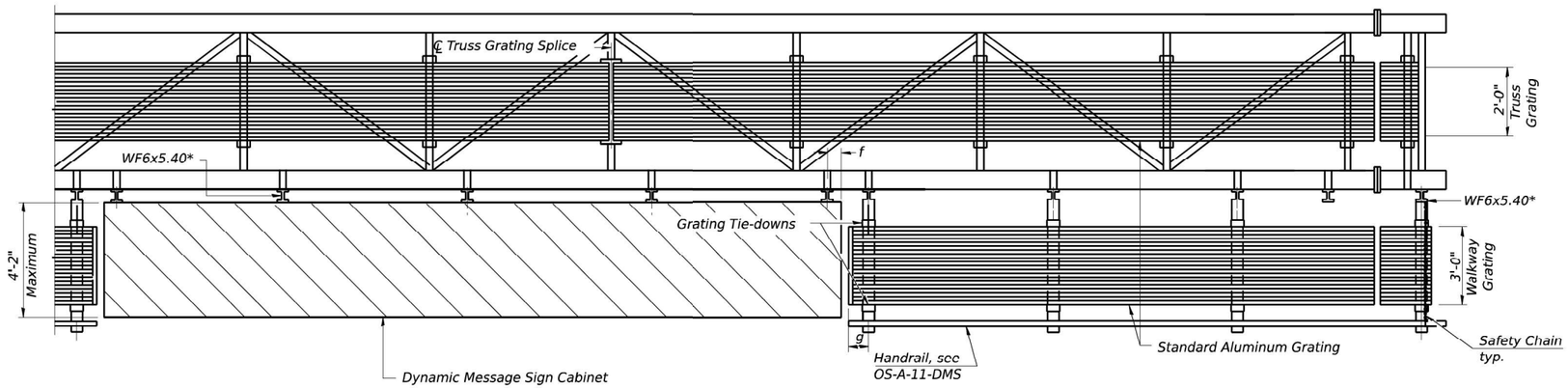
① *If walkway is required left of the DMS cabinet, a=1'-6" and b=walkway lengths. If walkway is not required left of the DMS cabinet, b=0 and "a" is dimension from left support frame to left end of cabinet.*



PLAN

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

SECTION A-A

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

BRACKET TABLE

WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Structure Number	Station	a	b	c	Ls	Walkway Grating and Handrail Lengths
1S099I080R129.0	500+85	1'-6"	15'-0"	37'-0"	30'-0"	52'-0"

Notes:

** Space walkway brackets WF6x5.40 for efficiency and within limits shown:*

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-9-DMS *2-17-2017*

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PLOT DATE = 6/15/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SCALE: | SHEET 7 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	506
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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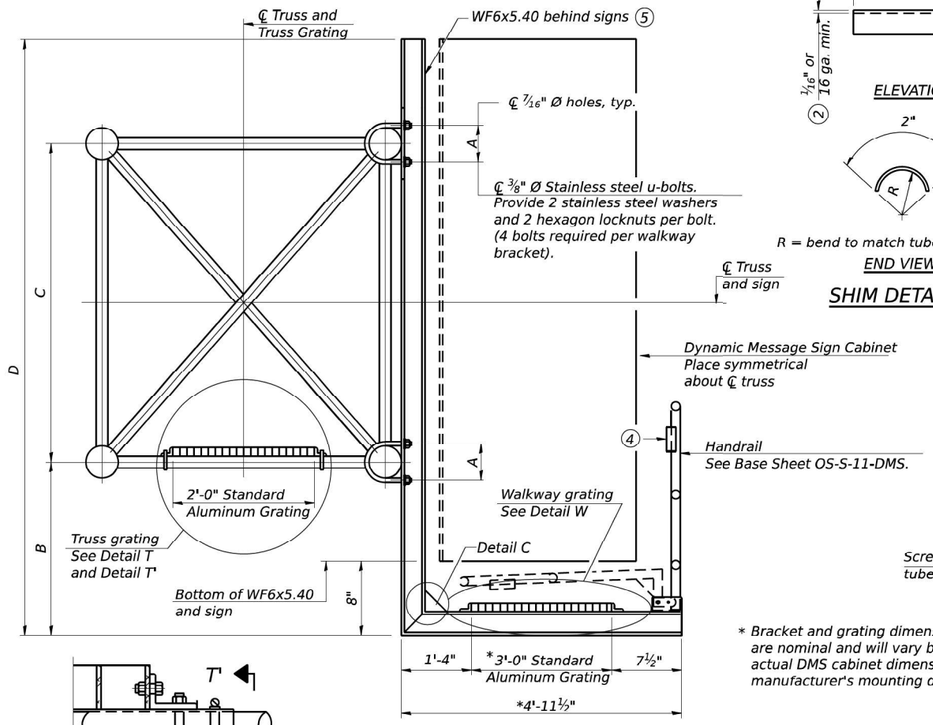
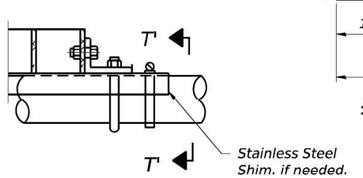
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY



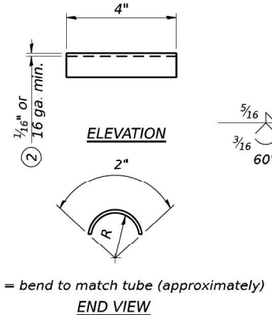
SECTION B-B

* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

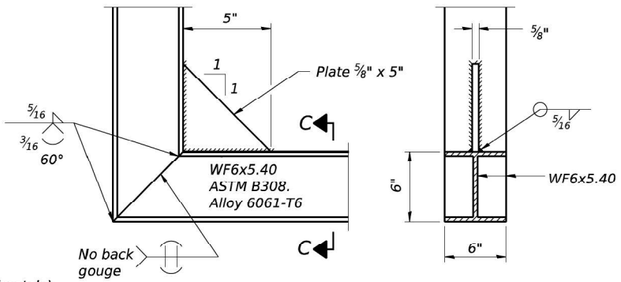


DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

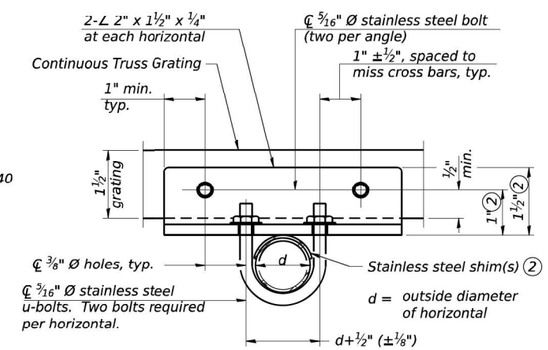


SHIM DETAIL

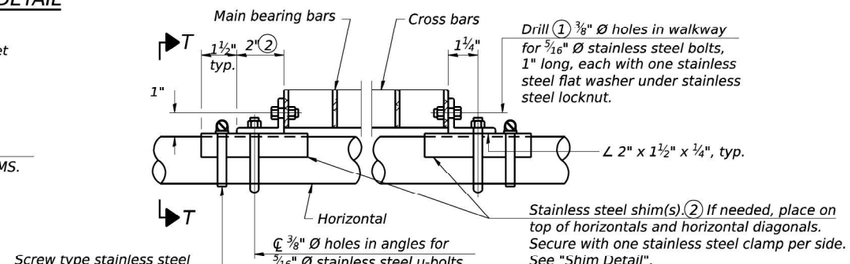


DETAIL C

SECTION C-C

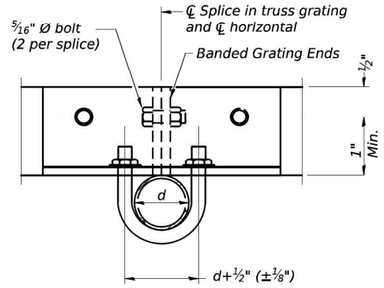


SECTION T-T

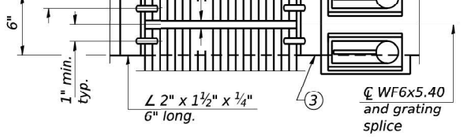


DETAIL T

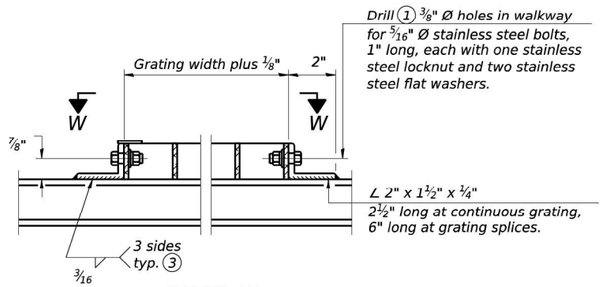
(Continuous Truss grating)



SECTION T'-T'

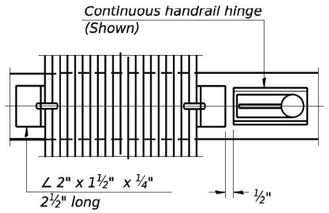


(AT WALKWAY GRATING SPLICE)



DETAIL W

(Walkway grating)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar. a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	(6) B	C	(6) D
1S099I080R129.0	500+85	7½"	1'-2"	7'-0"	8'-8"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11-DMS.)

(4) ℄ ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

(6) Based on actual height of tallest sign given on OS-A-1.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-10-DMS 2-17-2017

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	PLOT DATE = 6/15/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS
SCALE: | SHEET 8 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	507
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

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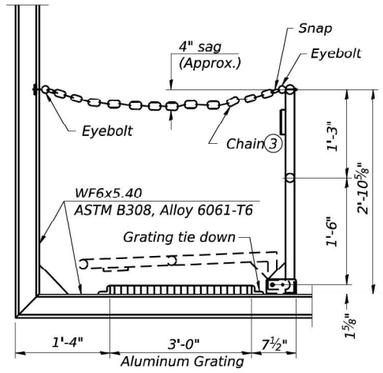
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

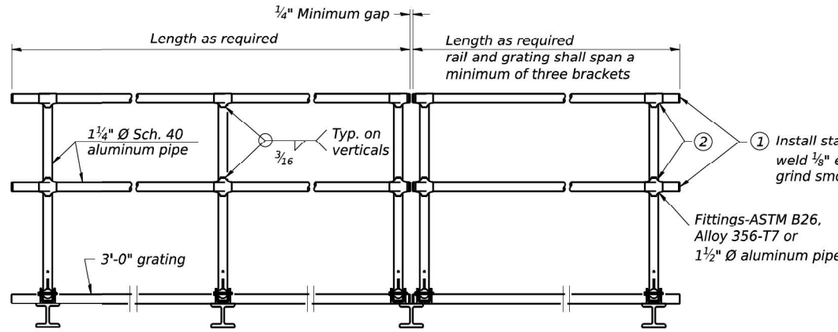
I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	272
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

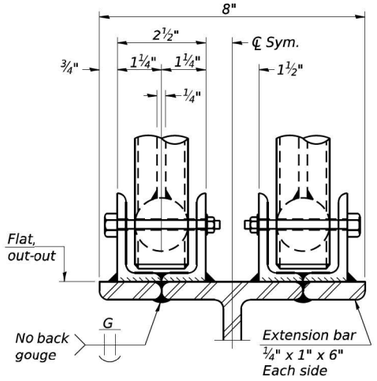
NOT IN CONTRACT
FOR INFORMATION ONLY



SIDE ELEVATION
(Showing safety chain w/o sign)



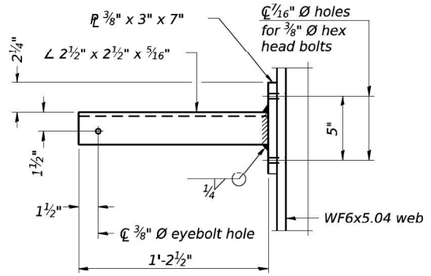
FRONT ELEVATION



ELEVATION AT HANDRAIL JOINT (4)

HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

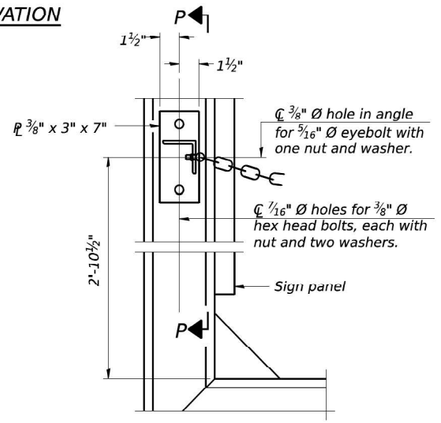


SECTION P-P

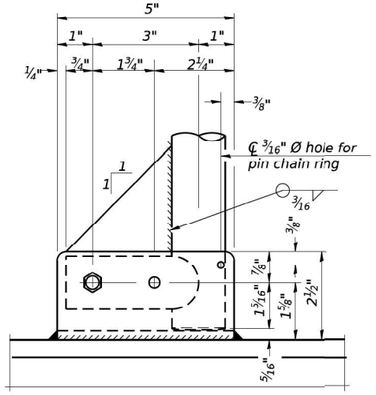
(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for ⅜" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)

(3) 3/16" type 304L stainless steel chain, approximately 12 links per foot.

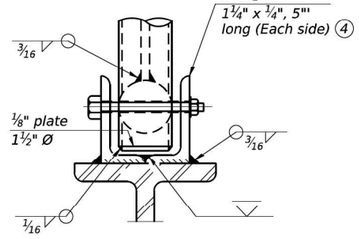
(4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.



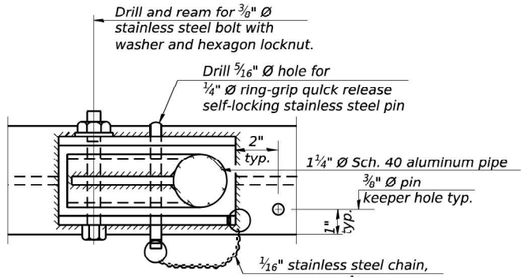
ALTERNATE SAFETY CHAIN ATTACHMENT



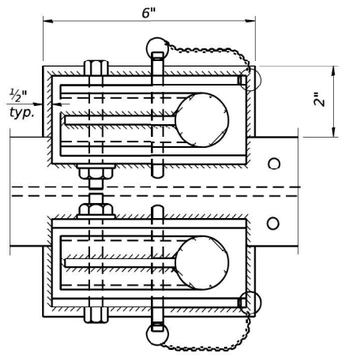
SIDE ELEVATION



FRONT ELEVATION
See "ELEVATION" at right for dimensions.

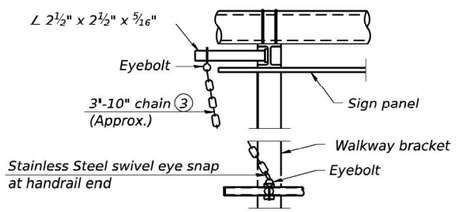


PLAN
DETAIL E HANDRAIL HINGE

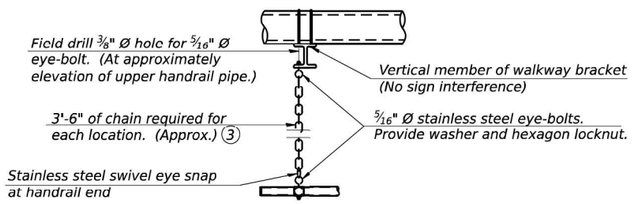


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)



SAFETY CHAIN
One required for each end of each walkway.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-11-DMS 2-17-2017

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	DRAWN - CS	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

SCALE: | SHEET 9 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	508
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	273
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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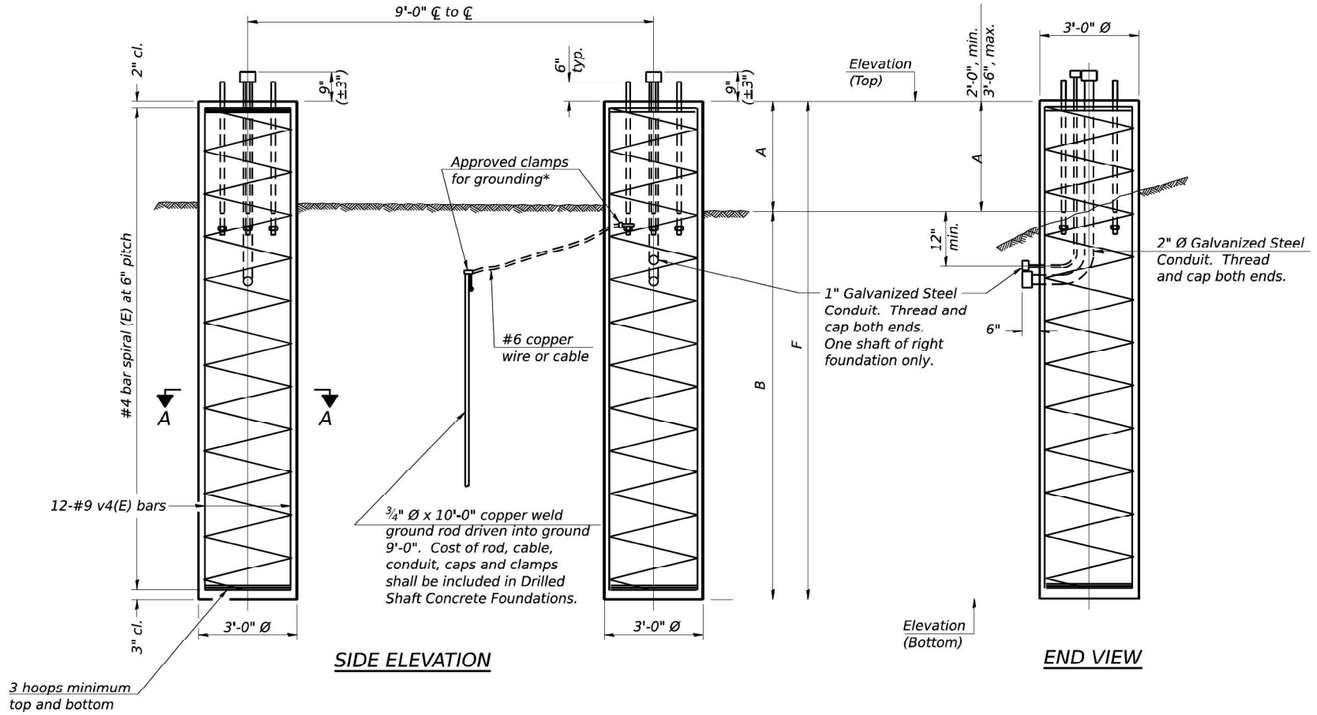
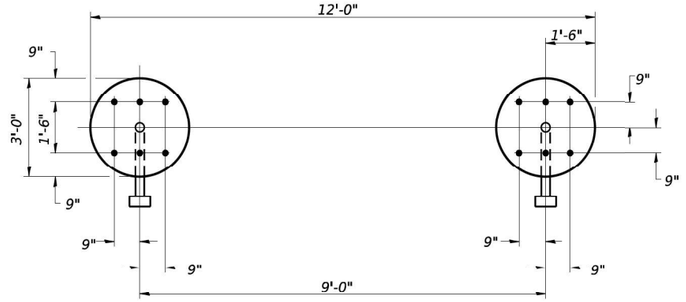
NOT IN CONTRACT
FOR INFORMATION ONLY



SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	——
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

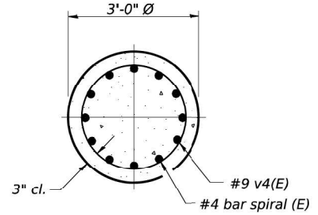
Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

Based on the soil boring logs provided, rock excavation for drilled shaft construction is not anticipated. A nominal quantity of Rock Excavation for Structures has been included to account for variability in the actual rock profile encountered during construction. This item shall only be measured for payment with the approval of the Engineer.



SECTION A-A

DETAILS FOR 12" Ø SUPPORT FRAME
TYPE III-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)	Rock Excavation for Structures (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F		
1S099I080R129.0	500+85	-	-	-	-	-	594.86	574.36	2'-6"	18'-0"	20'-6"	10.7	1

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PLOT DATE = 8/2/2023	DATE - 8/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SCALE: | SHEET 10 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	509
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY

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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -

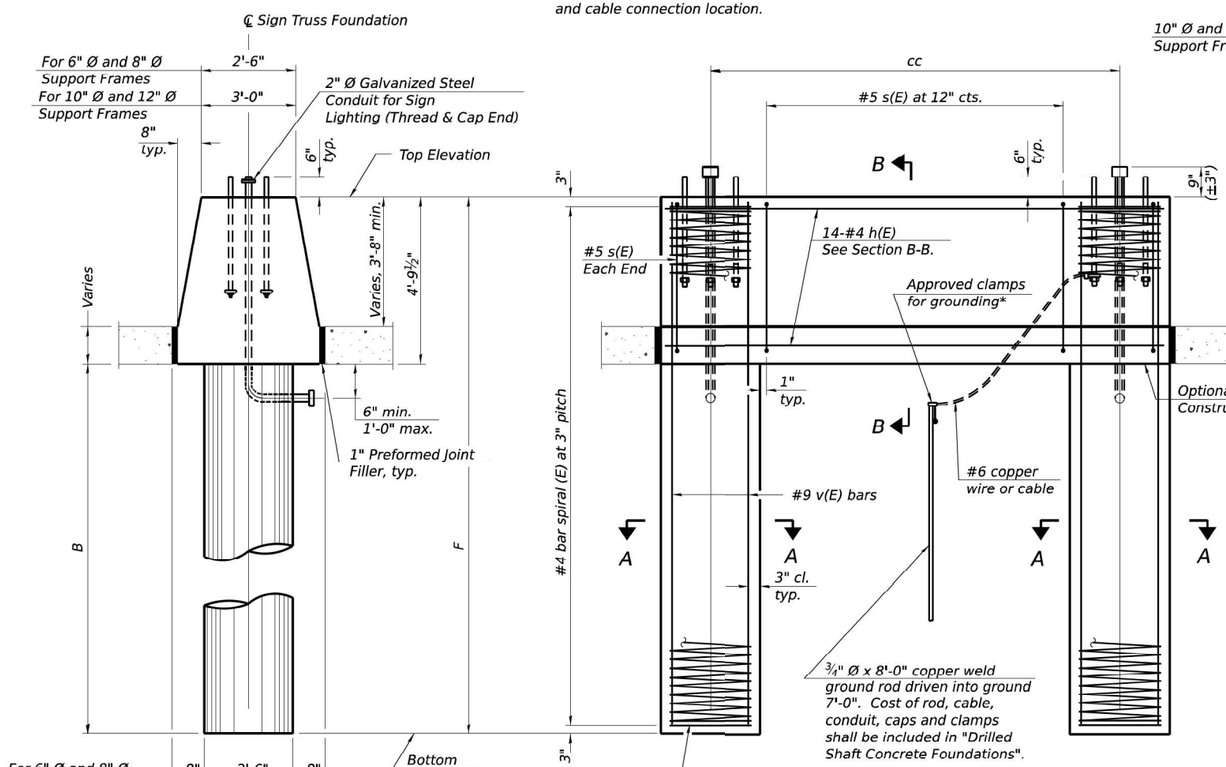
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	274
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

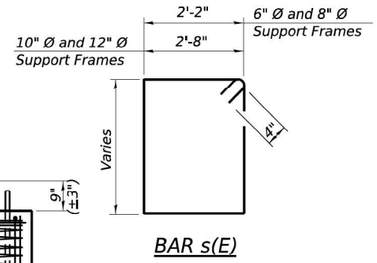
NOT IN CONTRACT
FOR INFORMATION ONLY



END VIEW

SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.



BAR s(E)

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

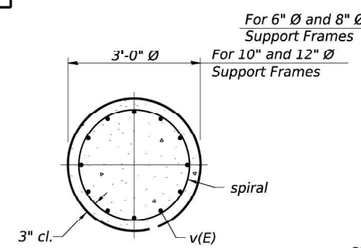
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

Based on the soil boring logs provided, rock excavation for drilled shaft construction is not anticipated. A nominal quantity of Rock Excavation for Structures has been included to account for variability in the actual rock profile encountered during construction. This item shall only be measured for payment with the approval of the Engineer.

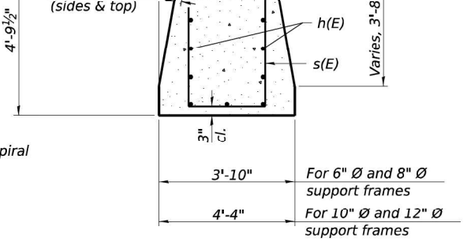
Pipe Support Frames	cc	M	a	a/2
6" Ø	7'-0"	9'-6"	0'-11"	5½"
8" Ø	7'-6"	10'-0"	1'-1½"	6¾"
10" Ø	8'-3"	11'-3"	1'-3"	7½"
12" Ø	9'-0"	12'-0"	1'-6"	9"

BAR LIST - EACH FOUNDATION

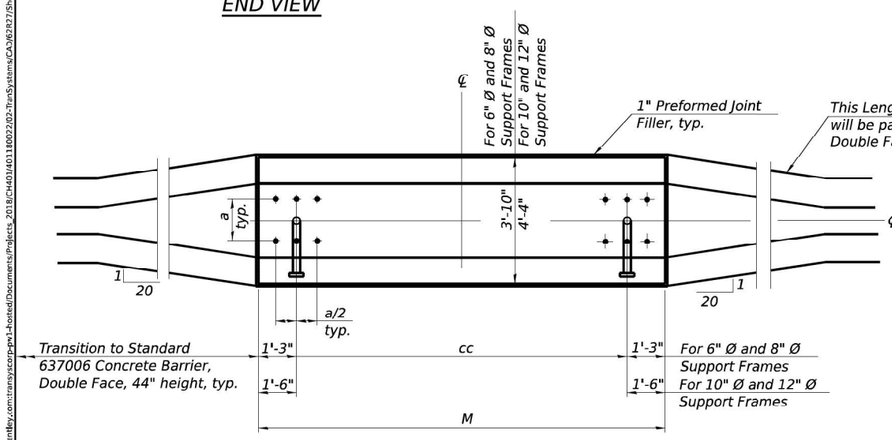
Bar	Number	Size	Length	Shape
h(E)	14	#4	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	— (6" Ø and 8" Ø Support Frame)
v(E)	24	#9	F less 0'-5"	— (10" Ø and 12" Ø Support Frame)
#4(E) bar spiral. See Side Elevation				



SECTION A-A



SECTION B-B



PLAN

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)	Rock Excavation for Structures (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F		
1S099I080R129.0	500+85	600.03	577.24	18'-0"	22'-9½"	-	-	-	-	17.6	1

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PLOT DATE = 8/2/2023	DATE - 8/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

SCALE: | SHEET 11 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	510
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	275
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG DMS1-01

WEI Job No.: 7901-15-01

Client: TranSystems Corporation
Project: I-80 Reconstruction (Houbolt Rd to Center St)
Location: Will County, Illinois

Datum: NAVD 88
Elevation: 597.68 ft
North: 1761565.01 ft
East: 1033449.04 ft
Station: 499+92.91
Offset: 34.710 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	597.6	1-inch thick ASPHALT						
	596.7	11-inch thick CONCRETE						
		--PAVEMENT--						
		Hard, brown SILTY CLAY LOAM, trace to little gravel; damp			1	7 8 12	> 4.50 P	11
		--FILL--						
		--RDR 2--	5		2	6 6 8	> 4.50 P	15
					3	4 5 9	> 4.50 P	14
	589.7	Hard, black SILTY CLAY, trace gravel; damp			4	4 5 6	5.00 B	22
		--Buried TOPSOIL--						
		--RDR 2--	10					
	587.2	Very stiff, brown and gray CLAY to SILTY CLAY, trace gravel; damp			5	2 3 3	2.46 B	23
		--wet silt seam @ 12'--						
		--RDR 2--						
	584.7	Loose, gray SILTY LOAM; wet			6	0 2 2	1.50 P	26
		--RDR 2--						
	583.2	Stiff, brown and gray CLAY to SILTY CLAY, trace gravel; damp	15		7	2 3 2	1.97 B	28
		--RDR 2--						
	579.7	Medium dense, gray and brown SANDY GRAVEL; wet			8	3 6 10	NP	15
		--RDR 2--	20					
	577.2	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, little gravel; wet			9	12 9 17	2.50 P	13
		--RDR 2-3--	25		10	11 43 40	2.50 P	9
	571.7	--AUGER REFUSAL @ 26'--						
		Boring terminated at 26.00 ft	30					
			35					
			40					

GENERAL NOTES

Begin Drilling: 01-27-2023 Complete Drilling: 01-27-2023
Drilling Contractor: Wang Testing Services Drill Rig: 20CME55T[81%]
Driller: KG&TC Logger: B. Miller Checked by: J. Bensen
Drilling Method: 3.25" IDA HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 12.00 ft
At Completion of Drilling: 15.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 7901150\1.GPJ WANGENG.GDT 5/18/23

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG DMS1-02

WEI Job No.: 7901-15-01

Client: TranSystems Corporation
Project: I-80 Reconstruction (Houbolt Rd to Center St)
Location: Will County, Illinois

Datum: NAVD 88
Elevation: 593.52 ft
North: 1761527.53 ft
East: 1033479.67 ft
Station: 499+85.65
Offset: 82.565 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.9	7-inch thick, black and dark brown SILTY CLAY LOAM						
		--TOPSOIL--						
		Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel			1	3 4 8	4.35 B	19
		--RDR 2--						
		--FILL--	5		2	3 6 7	> 4.50 P	15
	587.0	--(2.75 P)--			3	2 3 6	1.31 B	24
		Stiff, black SILTY CLAY						
		--Buried TOPSOIL--						
	585.5	Stiff, dark brown CLAY LOAM			4	2 2 2	1.25 P	20
		--RDR 2--	10					
	583.0	Stiff to hard, brown SILTY CLAY to CLAY, trace gravel			5	3 5 10	4.51 B	20
		--RDR 2--						
	578.0	Medium dense to very dense, brown SANDY GRAVEL; saturated	15		6	3 4 5	1.89 B	25
		--RDR 3-4--			7	5 11 17	NP	14
			20		8	4 12 12	NP	19
	572.0	--cobble fragments--			9	50/3"	NP	10
		--AUGER REFUSAL--						
		Boring terminated at 21.50 ft	25					
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: 02-28-2023 Complete Drilling: 02-28-2023
Drilling Contractor: Wang Testing Services Drill Rig: 21GeoA[96%]
Driller: AG&EH Logger: F. Bozga Checked by: J. Bensen
Drilling Method: 2.25" IDA HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 15.50 ft
At Completion of Drilling: 16.50 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 7901150\1.GPJ WANGENG.GDT 5/18/23

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
BORING LOGS

SCALE: | SHEET 12 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	511
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R27 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
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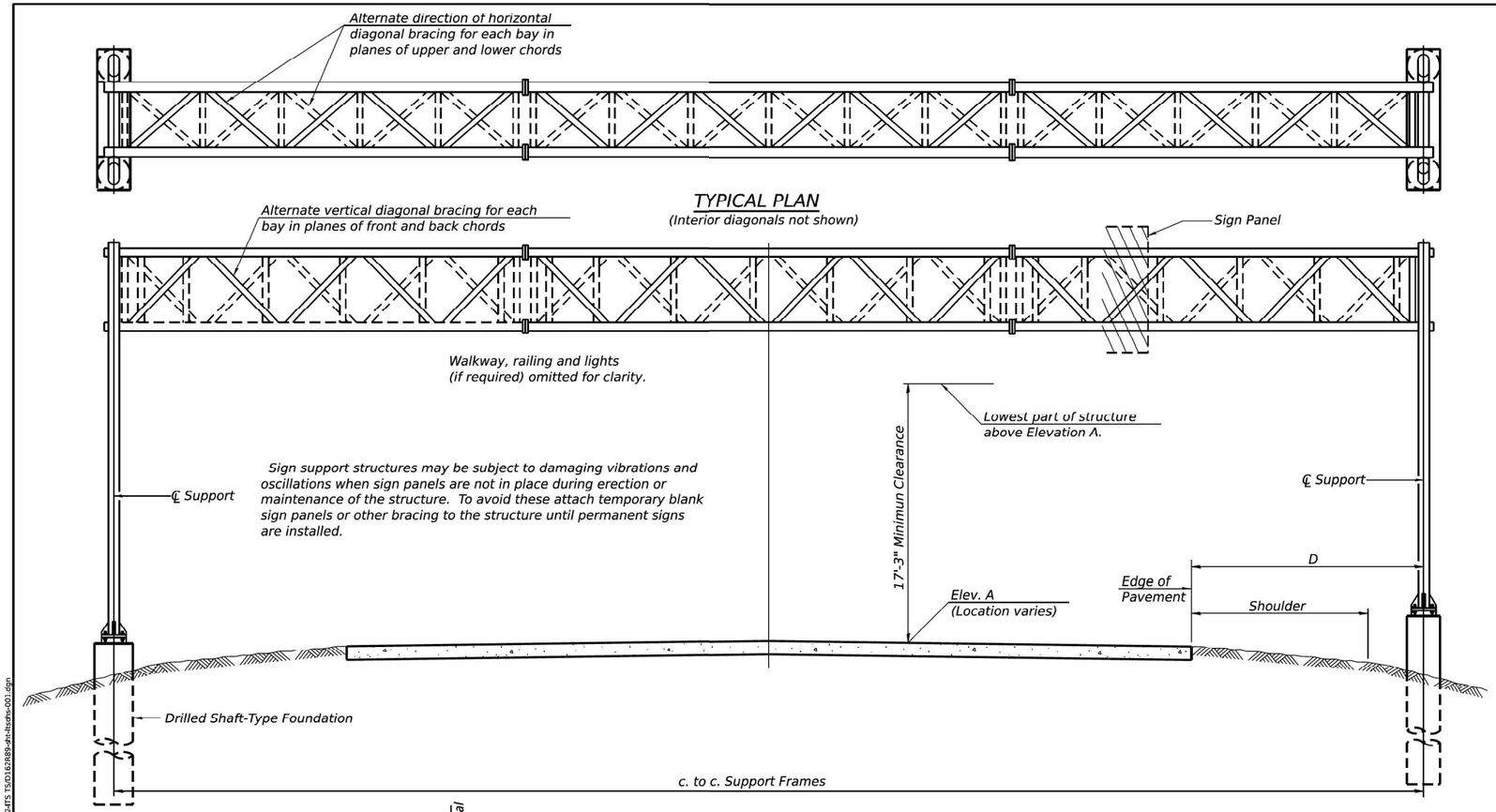
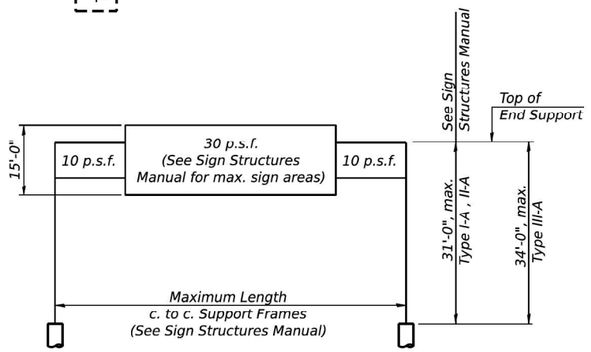


TYPICAL PLAN
(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S099I080L131.3	625+00	III-A	82'-0"	620.04	20'-6"	8'-0"	240 sqft

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Artie 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be eaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

FOUNDATION REMOVAL: Existing foundation removal shall be at least 3 feet below existing ground.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	Foot	82
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	49
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	30.7
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	4

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FOR INFORMATION ONLY

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PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	593
		CONTRACT NO. 62R89		
	ILLINOIS FED. AID PROJECT			

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	DRAWN -	REVISED -	
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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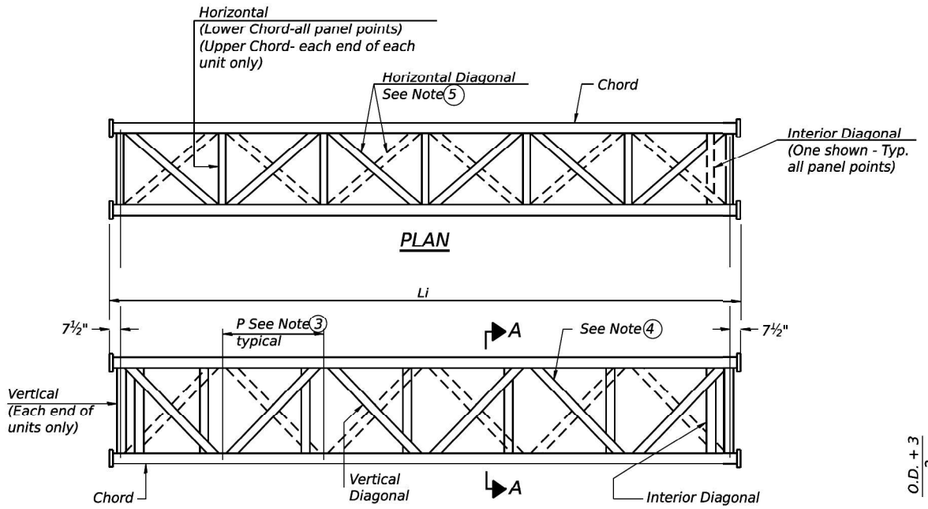
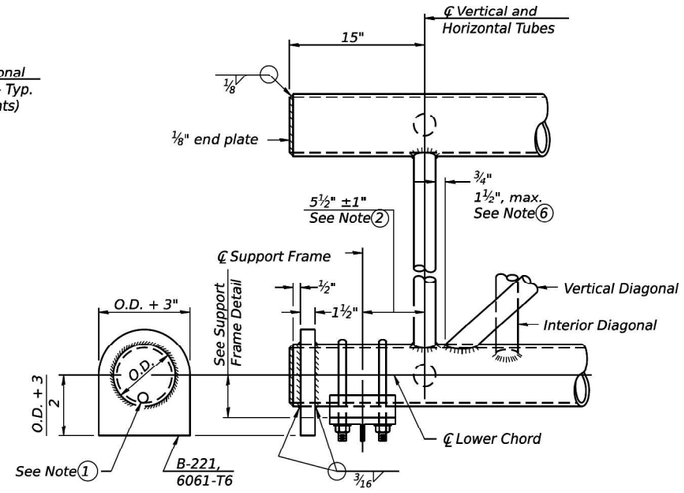
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

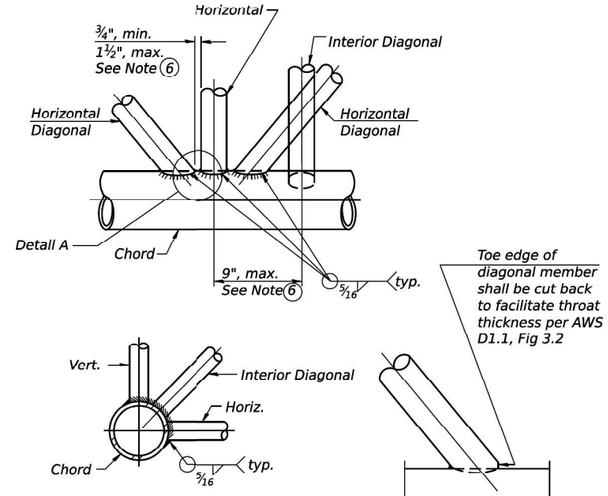
NOT IN CONTRACT
FOR INFORMATION ONLY



ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.

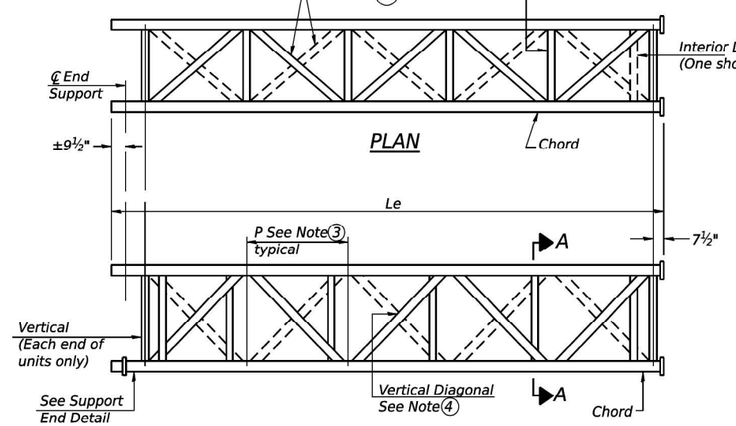


SUPPORT END DETAIL FOR EXTERIOR UNIT

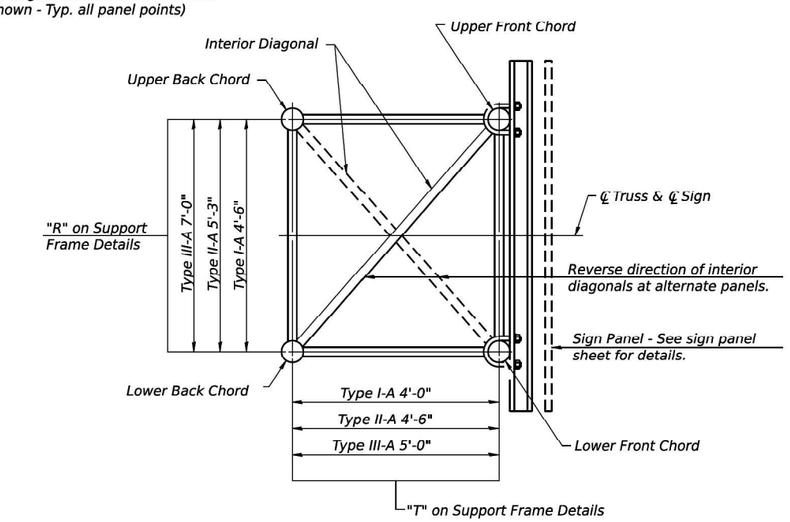


TYPICAL JOINT DETAILS

DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-2 2-17-2017

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	DRAWN - CS	REVISED -	
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PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A

SCALE: | SHEET 2 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	594
		CONTRACT NO. 62R89		
	ILLINOIS FED. AID PROJECT			

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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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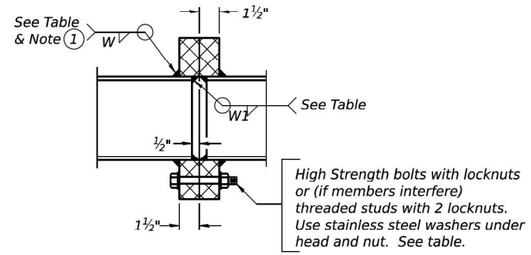
NOT IN CONTRACT
FOR INFORMATION ONLY

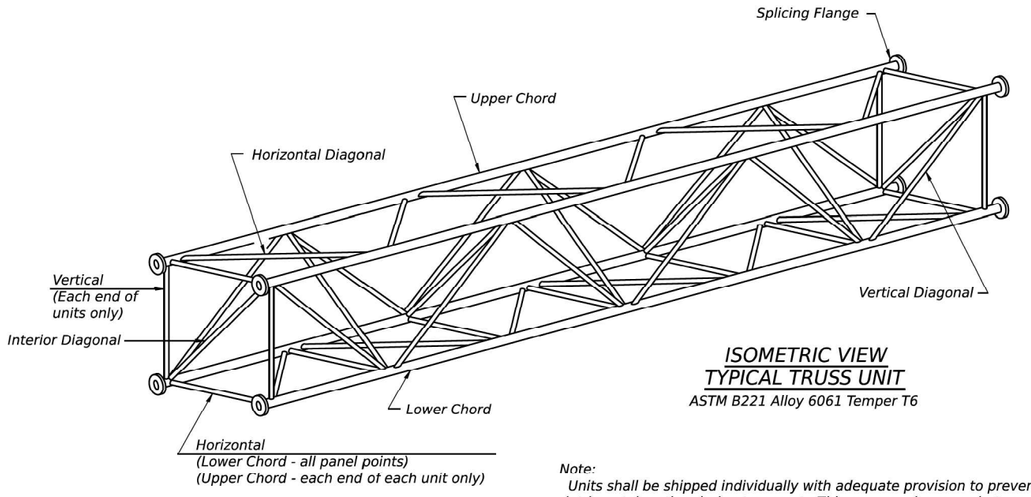
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical,Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
1S099I080L131.3	625+00	III-A	5	26'-5½"	4'-11"	1	6	30'-9"	4'-11"	7"	5/16"	3¼"	5/16"	1"	6	1"	7/16"	5/16"	11½"	15"



SECTION B-B

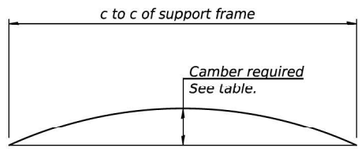
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

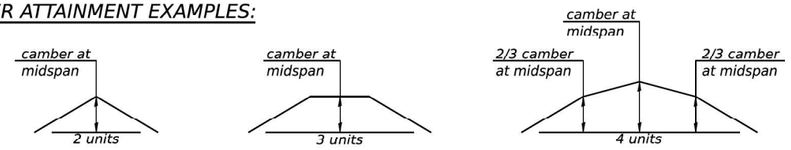
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



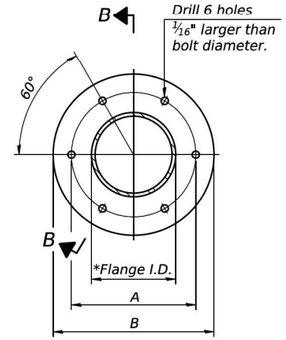
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

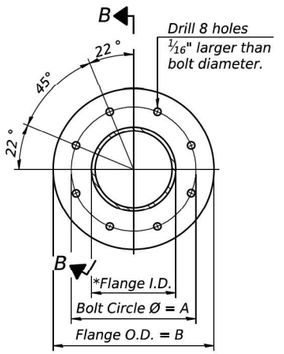
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2 2-17-2017

USER NAME = amkluver	DESIGNED - CS	REVISED -	
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PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SCALE: | SHEET 3 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	595
		CONTRACT NO. 62R89		
		ILLINOIS	FED. AID PROJECT	

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	279
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

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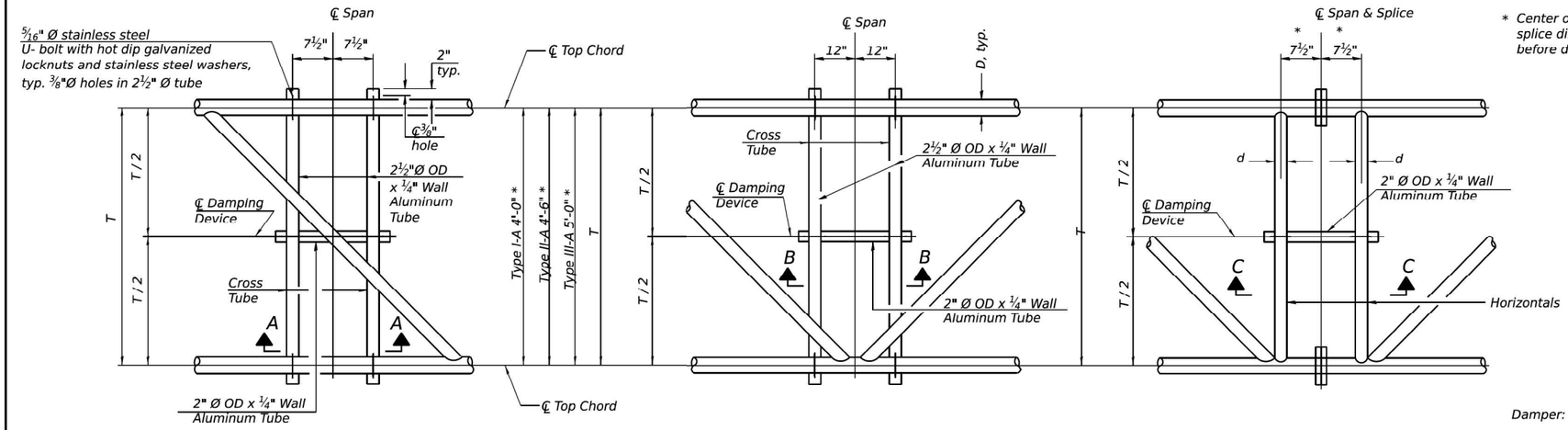
MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-62R89-DMS-03.DGN

NOT IN CONTRACT
FOR INFORMATION ONLY



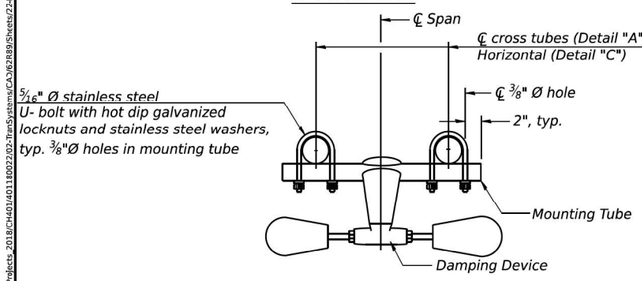
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

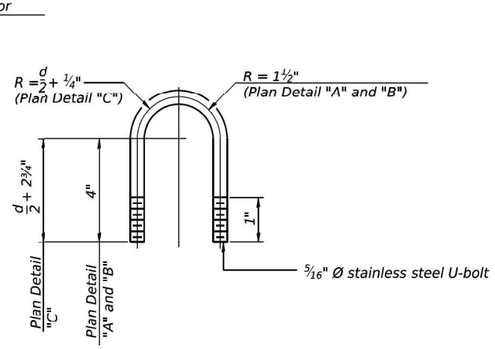
PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

SECTION A-A



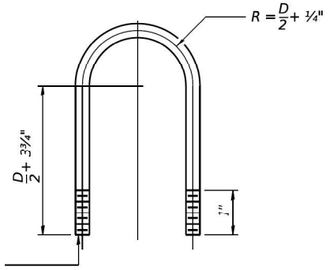
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)

SECTION B-B

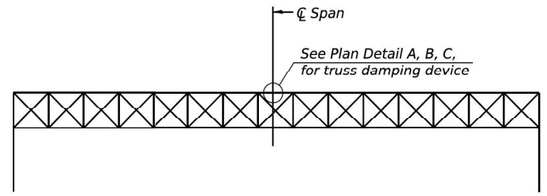


DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

SECTION C-C



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29"minimum between ends of weights) Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

OS-A-D 2-17-2017

exp.

USER NAME = amkluver	DESIGNED - CS	REVISED -	
	DRAWN - CS	REVISED -	
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PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

SCALE: | SHEET 4 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	596
		CONTRACT NO. 62R89		
		ILLINOIS	FED. AID PROJECT	

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exp.

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

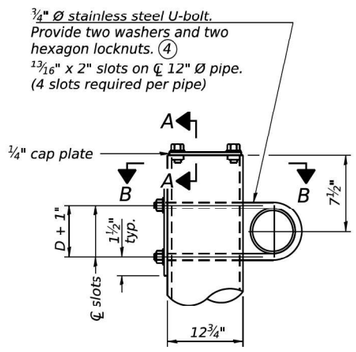
I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

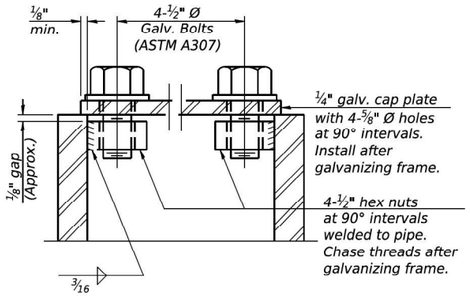
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	280
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS32656\62R19-SHT-62R89-DMS-04.DGN

NOT IN CONTRACT
FOR INFORMATION ONLY

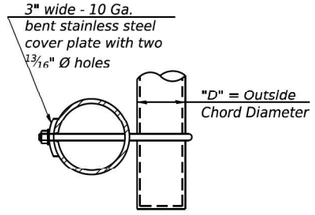


DETAIL A

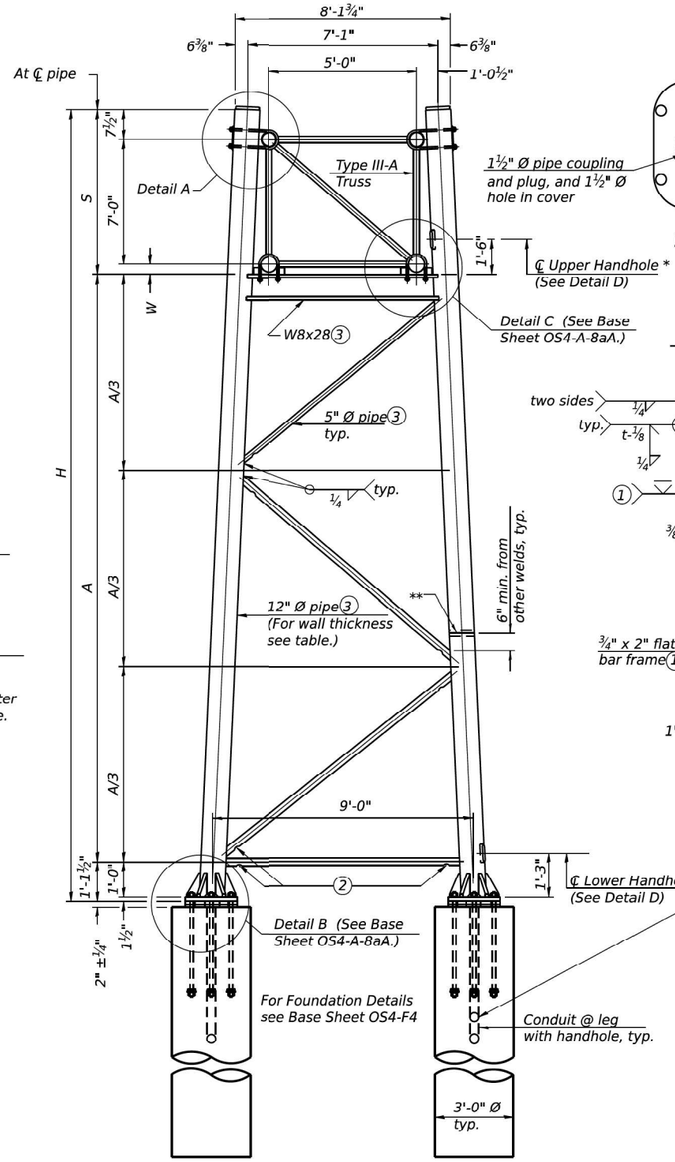


SECTION A-A

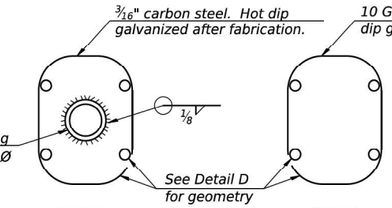
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



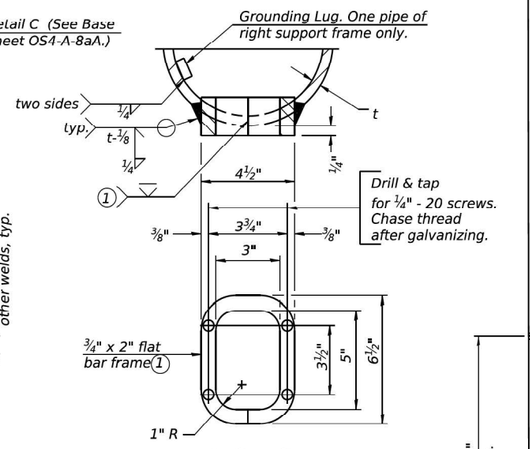
SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS



DETAIL D

END ELEVATION

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4¾"	8'-0¼"
8½"	5½"	8'-1"
9"	5¾"	8'-1¼"

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

(1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

(6) "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support Left	Support Right	Pipe Wall Thickness	H (6)	A
1S099I080L131.3	625+00	-	X	0.33"	28'-8¾"	19'-7"
1S099I080L131.3	625+00	X	-	0.33"	25'-5¾"	16'-4"

TRUSS SUPPORT DETAILS

(12" Ø Pipe-Type III-A Truss

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

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MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401/401160022/02-TranSystems/CA/62R89/Sheets/22-ATS TS/D162R89-ATS-Truss-005.dgn

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	DRAWN - CS	REVISED -	
PLOT SCALE = 31.9987 ' / In.	CHECKED - BAR	REVISED -	
PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS

SCALE: | SHEET 5 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	597
		CONTRACT NO. 62R89		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-0110MS32656\62R19-SHT-62R89-DMS-05.DGN

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
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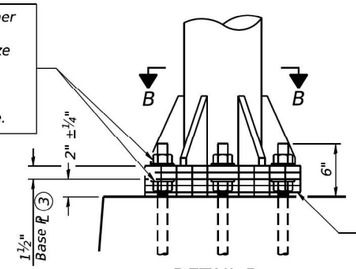
I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	281
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY

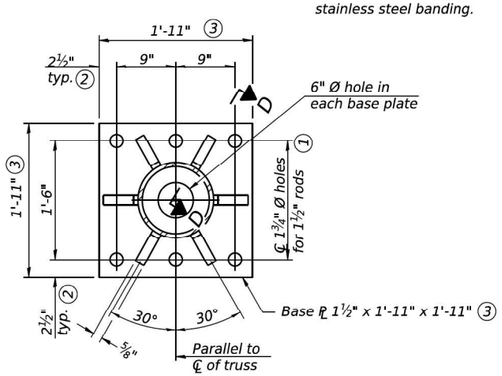
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



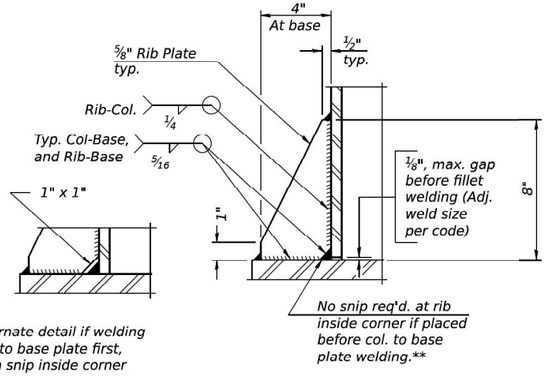
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, ¼" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.

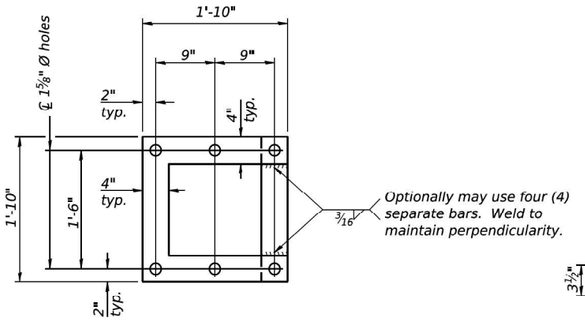


SECTION B-B

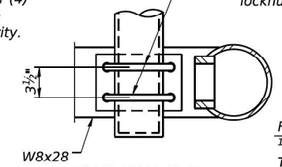


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D

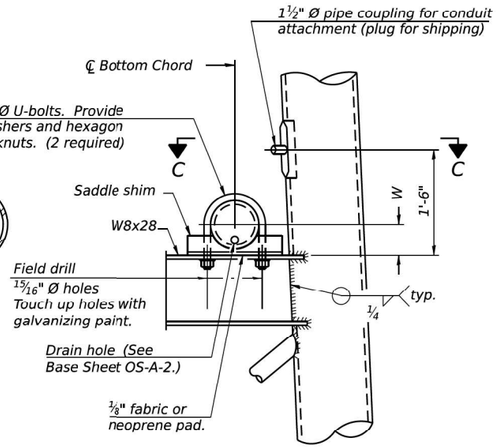


POSITIONING PLATE(S)

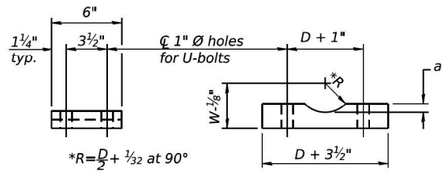


SECTION C-C

(Handhole cover not shown)



DETAIL C



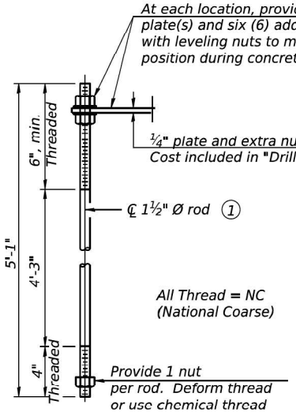
*R = D/2 + 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7"	1"
8½"	1¼"
9"	1⅜"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

① 1¾" Ø rod, 2" Ø holes

② 2¾" edge distance

③ Base ℄ 1⅝" x 1'-11½" x 1'-11½"

NOT IN CONTRACT
FOR INFORMATION ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-corp-pw1-Hosted/Documents/Projects_2018/CH401401180022/02-TransSystems/CA/362R89/Sheets/22AFS TS/D162R89-gn-ltsshs-006.dgn

OS4-A-8aA 2-17-2017

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	DRAWN - CS	REVISED -
PLOT SCALE = 31.9987 ' / In.	CHECKED - BAR	REVISED -
PLOT DATE = 10/5/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS

SCALE: | SHEET 6 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	598
		CONTRACT NO. 62R89		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-011DMS3265616\R19-SHT-62R89-DMS-06.DGN

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -

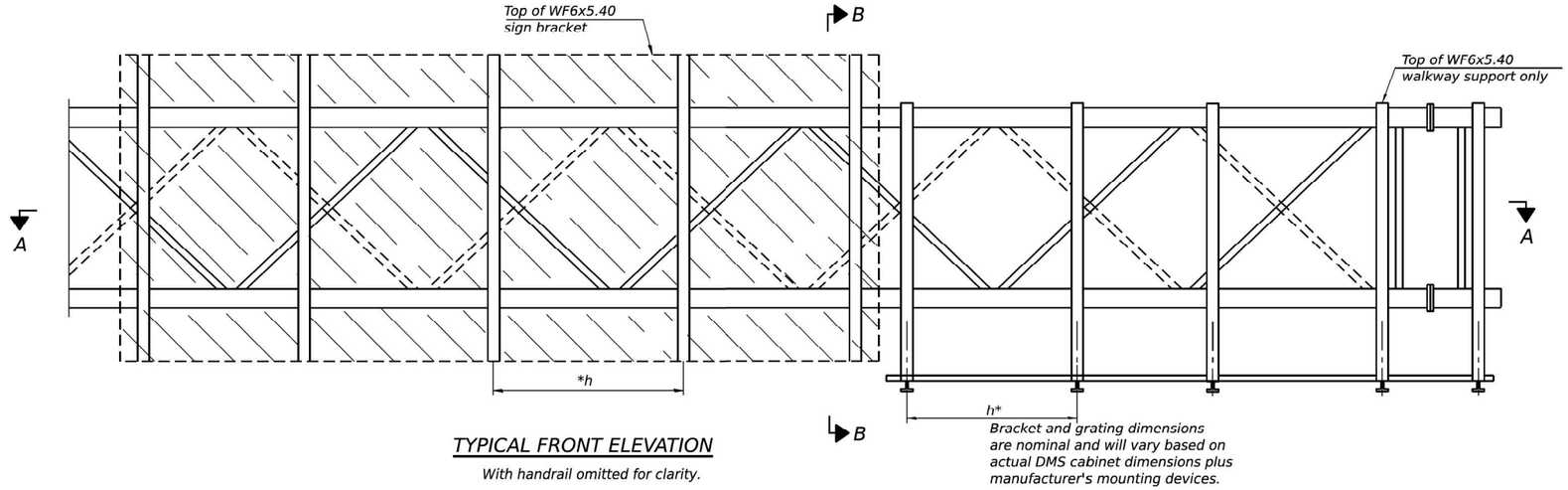
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	282
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY

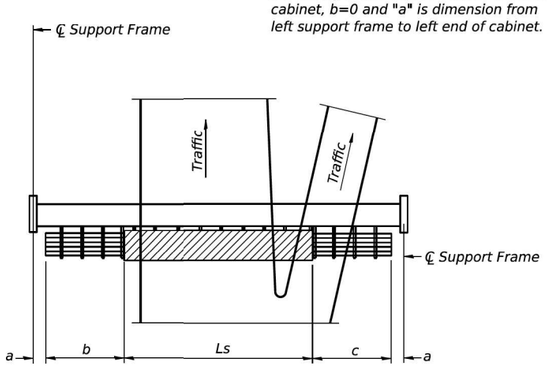


TYPICAL FRONT ELEVATION

With handrail omitted for clarity.

Brackct and grating dimcnsions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

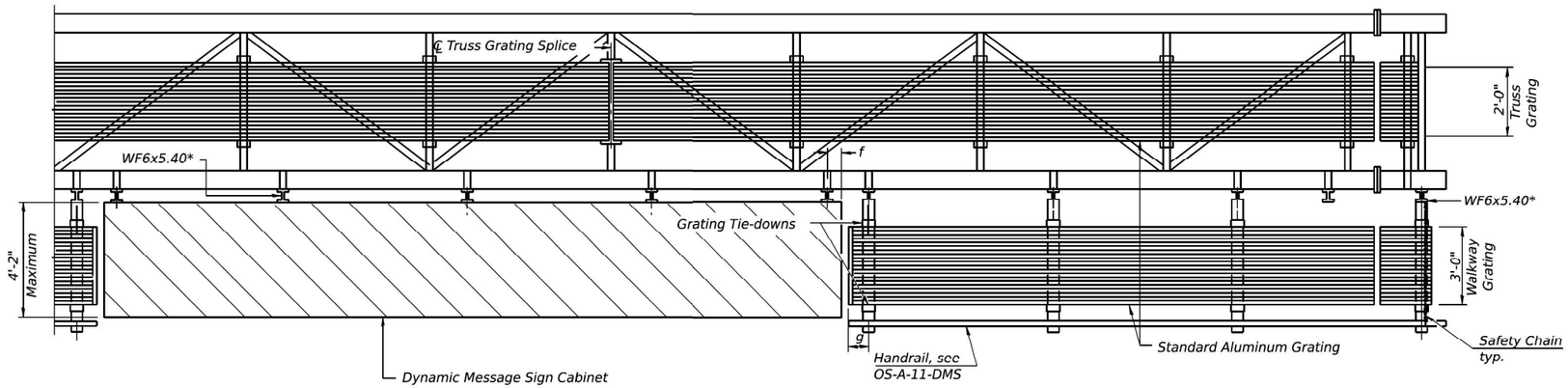
① If walkway is required left of the DMS cabinet, a=1'-6" and b=walkway lengths. If walkway is not required left of the DMS cabinet, b=0 and "a" is dimension from left support frame to left end of cabinet.



PLAN

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



SECTION A-A

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

BRACKET TABLE

WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Structure Number	Station	a	b	c	Ls	Walkway Grating and Handrail Lengths
1S099I080L131.3	625+00	1'-6"	21'-0"	28'-0"	30'-0"	49'-0"

Notes:
* Space walkway brackets WF6x5.40 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-9-DMS 2-17-2017

USER NAME = amkluver	DESIGNED - CS	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 31.9987 ' / In.	CHECKED - BAR	REVISED -	
PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SCALE: | SHEET 7 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	599
		CONTRACT NO. 62R89		
		ILLINOIS	FED. AID PROJECT	

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	DRAWN -	REVISED -	
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	283
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
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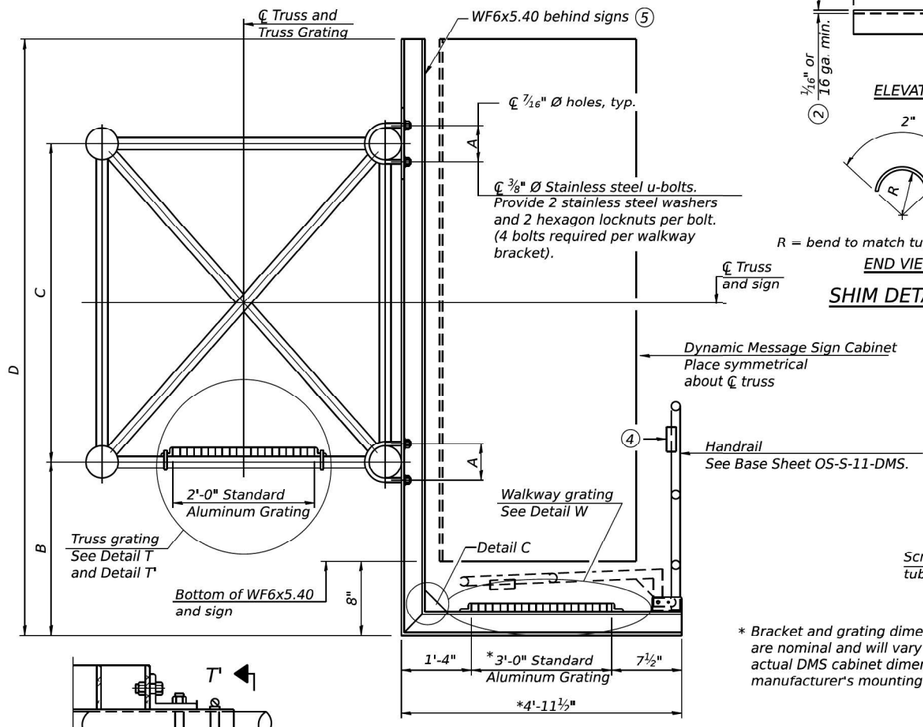
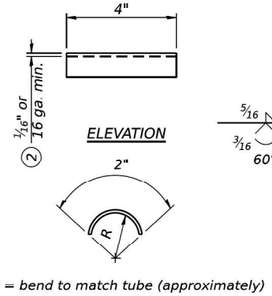
NOT IN CONTRACT
FOR INFORMATION ONLY

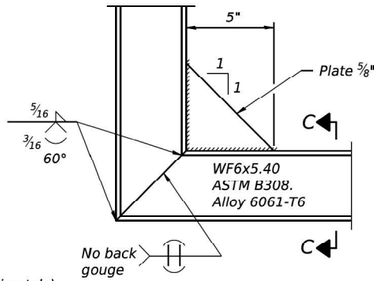


SECTION B-B

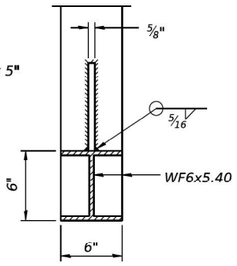
* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.



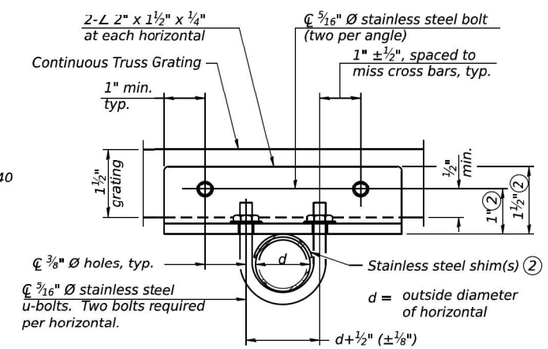
SHIM DETAIL



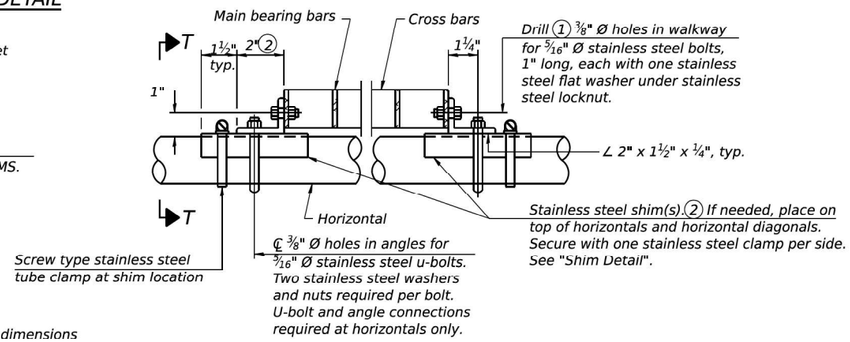
DETAIL C



SECTION C-C

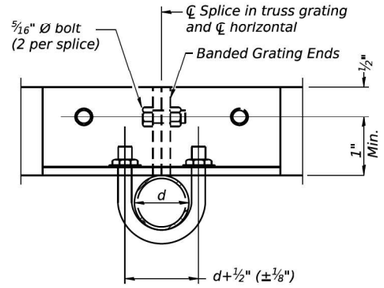


SECTION T-T

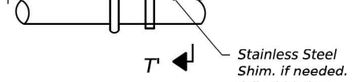


DETAIL T

(Continuous Truss grating)

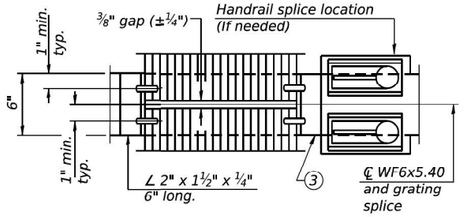


SECTION T'-T'

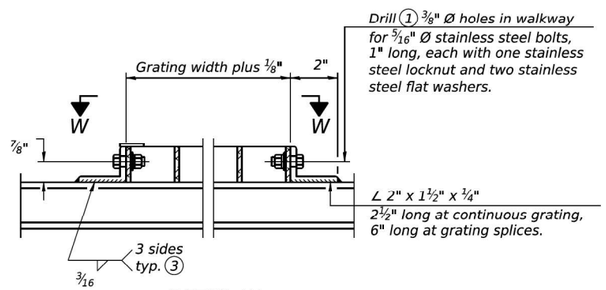


DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

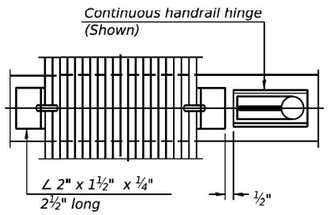


(AT WALKWAY GRATING SPLICE)



DETAIL W

(Walkway grating)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	(6) B	C	(6) D
1S099I080L131.3	625+00	7½"	1'-2"	7'-0"	8'-8"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11-DMS.)

(4) ℄ 1/8" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

(6) Based on actual height of tallest sign given on OS-A-1.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-10-DMS 2-17-2017

MODEL: Default
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USER NAME = amkluver		DESIGNED - CS		REVISED -	
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PLOT SCALE = 31.9987 ' / In.		CHECKED - BAR		REVISED -	
PLOT DATE = 10/5/2023		DATE -		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SCALE: | SHEET 8 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	600
		CONTRACT NO. 62R89		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-(011)MS3265\6262R19-SHT-62R89-DMS-08.DGN

exp.

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		DRAWN -		REVISED -	
PLOT SCALE = 0.16666667 ' / IN.		CHECKED -		REVISED -	
PLOT DATE = 11/12/2025		DATE - 11/12/2025		REVISED -	

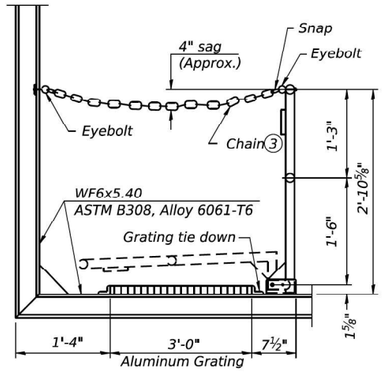
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

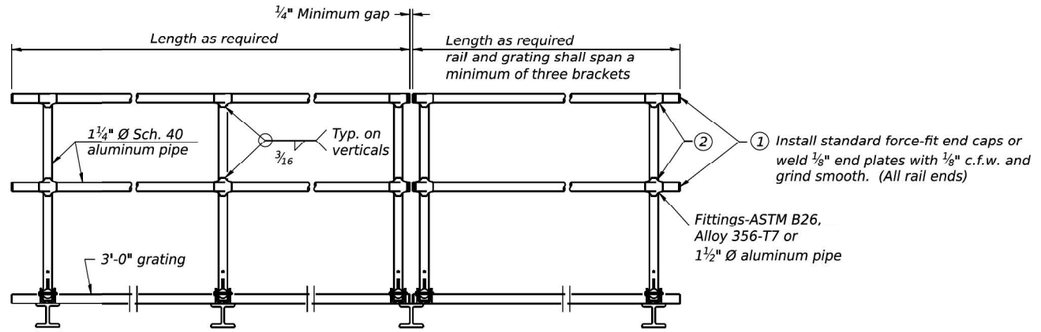
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	284
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

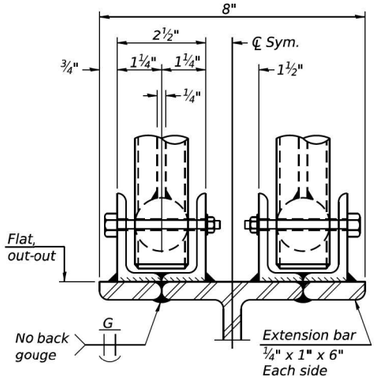
NOT IN CONTRACT
FOR INFORMATION ONLY



SIDE ELEVATION
(Showing safety chain w/o sign)



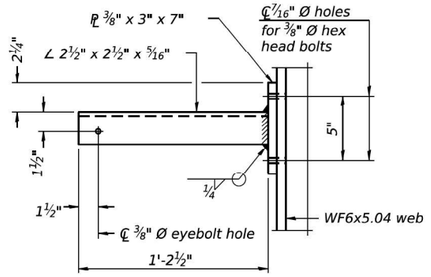
FRONT ELEVATION



ELEVATION AT HANDRAIL JOINT (4)

HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

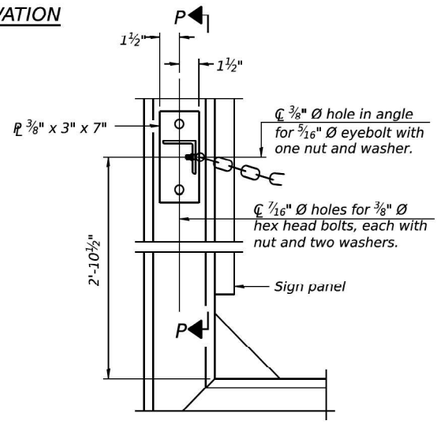


SECTION P-P

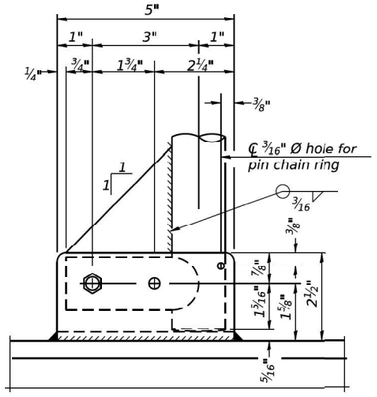
(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for ⅜" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)

(3) 3/16" type 304L stainless steel chain, approximately 12 links per foot.

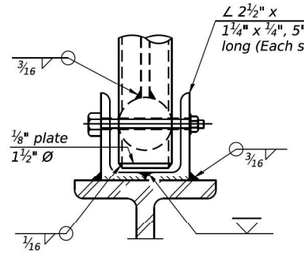
(4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.



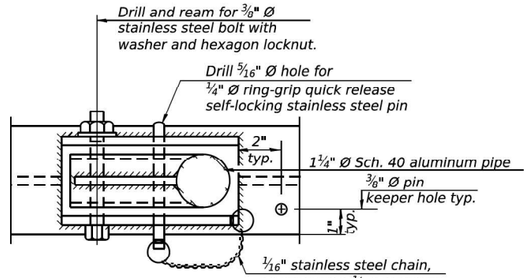
ALTERNATE SAFETY CHAIN ATTACHMENT



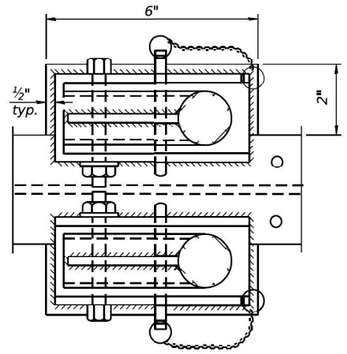
SIDE ELEVATION



FRONT ELEVATION
See "ELEVATION" at right for dimensions.

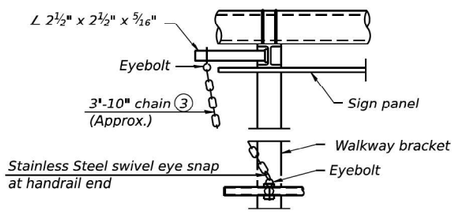


PLAN
DETAIL E HANDRAIL HINGE

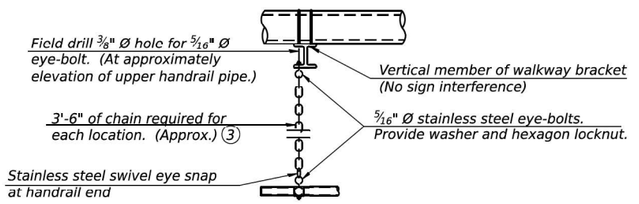


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)



SAFETY CHAIN
One required for each end of each walkway.

NOT IN CONTRACT
FOR INFORMATION ONLY

OS-A-11-DMS 2-17-2017

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	DRAWN - CS	REVISED -	
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PLOT DATE = 10/5/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

SCALE: | SHEET 9 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	601
		CONTRACT NO. 62R89		
		ILLINOIS FED. AID PROJECT		

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	285
		CONTRACT NO. 62R19		
		ILLINOIS FED. AID PROJECT		

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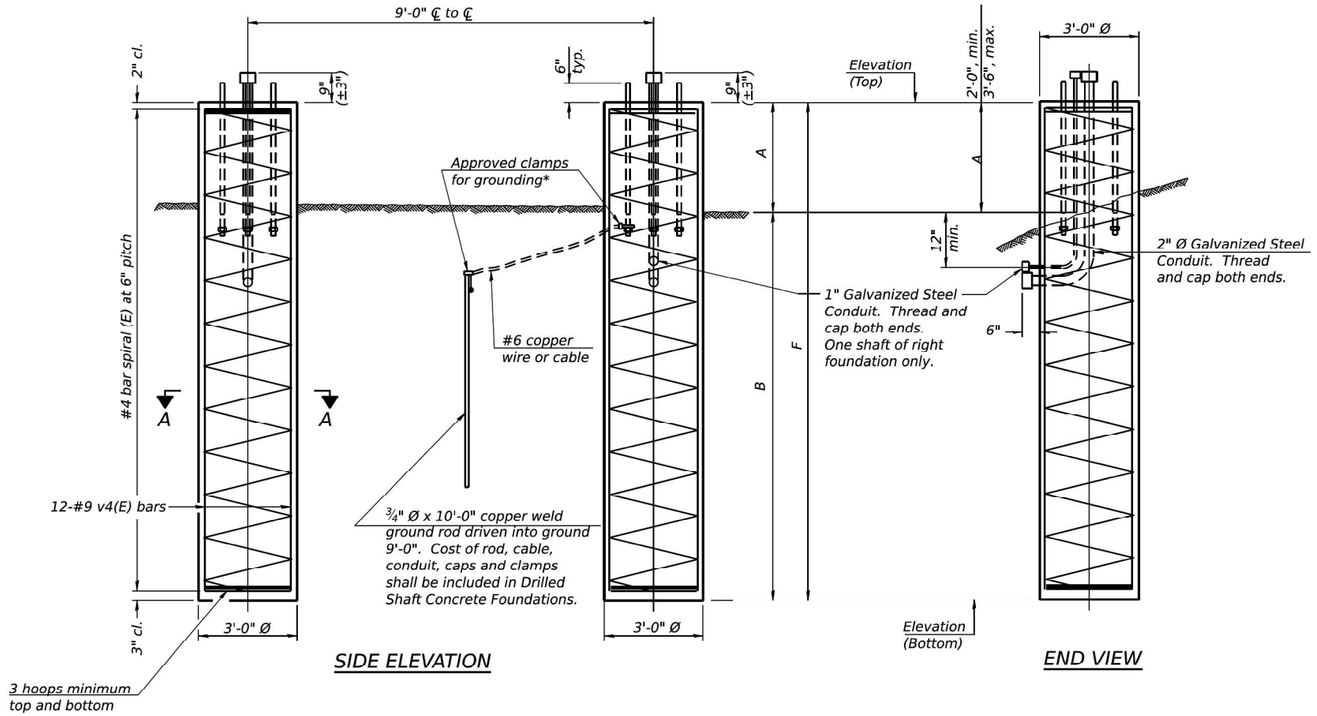
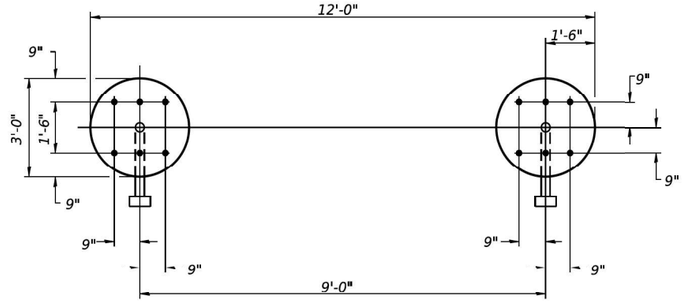
NOT IN CONTRACT
FOR INFORMATION ONLY



SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	——
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

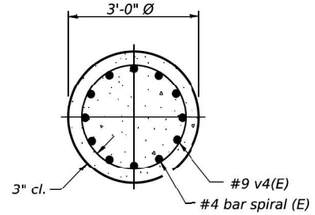
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
1S099I080L131.3	625+00	-	-	-	-	-	620.93	600.43	2'-6"	18'-0"	20'-6"	10.7

NOT IN CONTRACT
FOR INFORMATION ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401100202-TranSystems/CA/62R89/Sheets/22-ATS TS/D162R89-ahl-Hsshs-010.dgn

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	DRAWN - CS	REVISED -
PLOT SCALE = 31.9987 ' / In.	CHECKED - BAR	REVISED -
PLOT DATE = 10/5/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SCALE: | SHEET 10 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	602
		CONTRACT NO. 62R89		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
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	DRAWN -	REVISED -
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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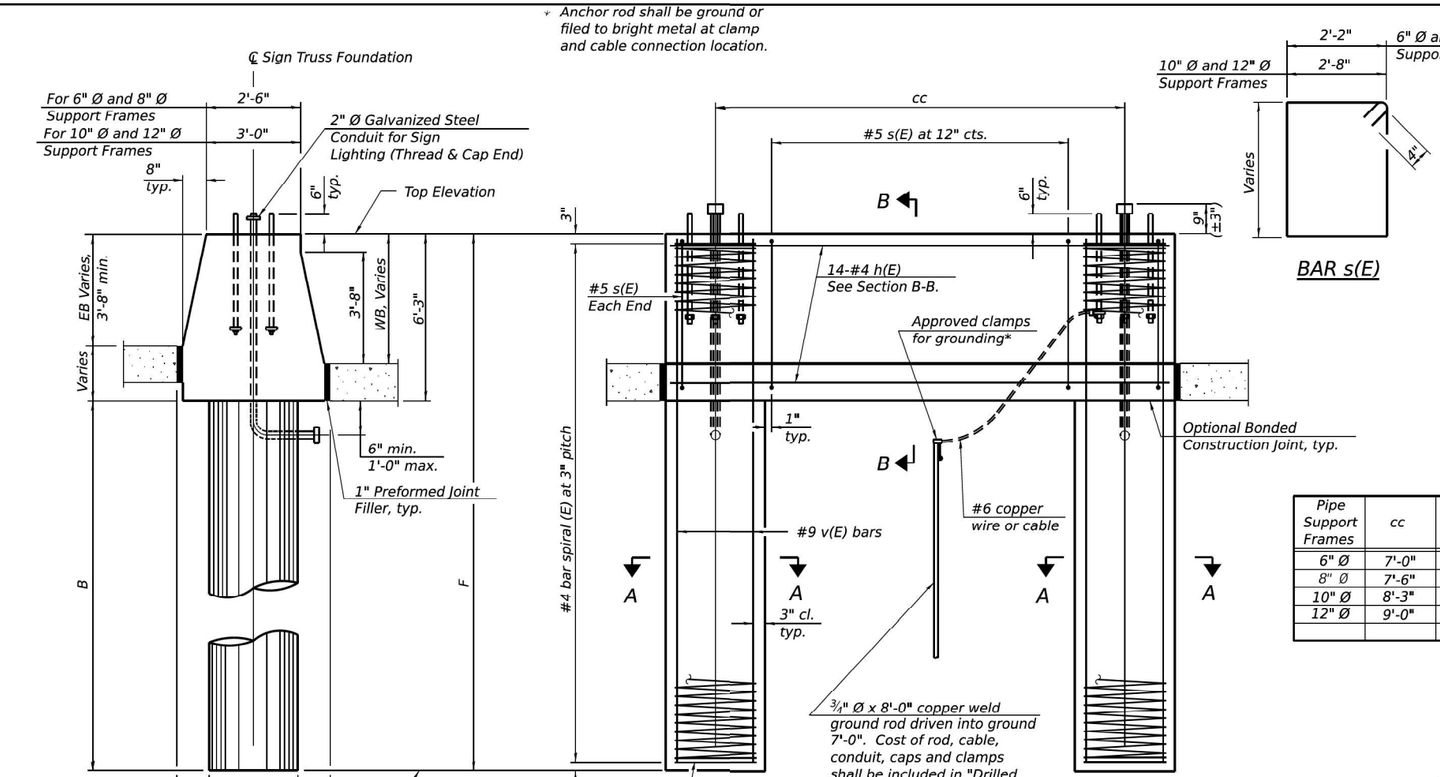
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY



END VIEW

SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.

BAR s(E)

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

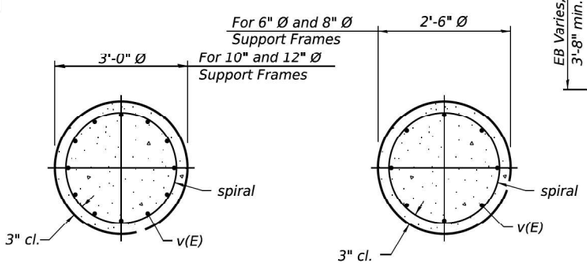
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

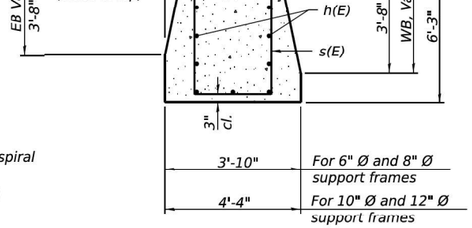
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	14	#4	M less 4"	
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	— 6" Ø and 8" Ø Support Frame
v(E)	24	#9	F less 0'-5"	— 10" Ø and 12" Ø Support Frame
#4(E) bar spiral. See Side Elevation				

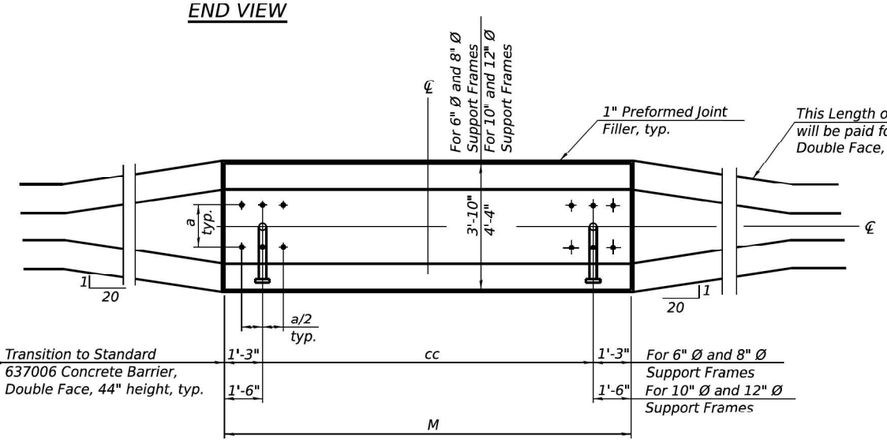
Pipe Support Frames	cc	M	a	a/2
6" Ø	7'-0"	9'-6"	0'-11"	5½"
8" Ø	7'-6"	10'-0"	1'-1½"	6¾"
10" Ø	8'-3"	11'-3"	1'-3"	7½"
12" Ø	9'-0"	12'-0"	1'-6"	9"



SECTION A-A



SECTION B-B



PLAN

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
1S099I080L131.3	625+00	624.18	599.92	18'-0"	24'-3"	-	-	-	-	20.0

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PLOT DATE = 10/5/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

SCALE: | SHEET 11 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	603
		CONTRACT NO. 62R89		
	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	287
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

NOT IN CONTRACT
FOR INFORMATION ONLY

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG DMS2-03

WEI Job No.: 7901-15-01

Client: TranSystems Corporation
Project: I-80 Reconstruction (Houbolt Rd to Center St)
Location: Will County, Illinois

Datum: NAVD 88
Elevation: 615.89 ft
North: 1764717.70 ft
East: 1045081.17 ft
Station: 625+00.83
Offset: 2.843 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	615.4	6-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--						
		Hard, brown and gray SILTY CLAY, trace gravel; damp --FILL--			1	4 6 7	5.17 B	19
	612.9	Loose, brown SILTY LOAM, trace gravel; wet --RDR 2--	5		2	2 3 3	NP	24
	610.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			3	3 4 5	2.05 B	22
			10		4	6 8 9	6.56 B	19
					5	3 5 8	3.69 B	20
			15		6	4 6 9	2.21 B	16
					7	4 5 8	3.03 B	19
			20		8	4 6 9	2.62 B	19
	590.4	Medium dense to very dense, light brown GRAVELLY SAND; damp --RDR 2-3--	25		9	5 5 7	2.05 B	23
					10	4 4 7	3.36 B	25
			30		11	17 29 33	NP	4
					12	13 15 16	NP	3
			35		13	5 7 9	NP	5
	580.9	Boring terminated at 35.00 ft	40					

GENERAL NOTES

Begin Drilling: 05-31-2023 Complete Drilling: 05-31-2023
Drilling Contractor: Wang Testing Services Drill Rig: 21GeoA[96%]
Driller: AG&GUS Logger: M. Rojo Checked by: J. Bensen
Drilling Method: 3.25" IDA HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 3.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 7901150I.GPJ WANGENG.GDT 6/6/23

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG DMS2-04

WEI Job No.: 7901-15-01

Client: TranSystems Corporation
Project: I-80 Reconstruction (Houbolt Rd to Center St)
Location: Will County, Illinois

Datum: NAVD 88
Elevation: 618.80 ft
North: 1764790.90 ft
East: 1045077.05 ft
Station: 624+99.64
Offset: 70.468 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	618.1	8-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--						
		Stiff to hard SILTY CLAY, trace gravel; damp to moist --RDR 2--			1	4 5 5	1.64 S	19
			5		2	5 11 8	5.33 B	22
	613.3	--wet sand lenses-- Very soft to medium stiff, brown CLAY LOAM, trace gravel; moist to wet --RDR 2--			3	5 5 4	0.82 B	21
			10		4	11 16 29	0.16 B	21
	608.3	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	8 11 13	3.77 B	17
			15		6	1 3 6	2.62 B	18
					7	7 11 9	5.99 B	19
			20		8	2 7 8	3.44 B	19
	591.8	Very dense, gray SILT, trace gravel; moist --RDR 2--	25		9	4 6 6	2.62 B	20
					10	4 6 8	2.79 B	21
			30		11	3 5 7	1.72 B	19
					12	40 25 25	NP	26
	587.0	Medium dense, brown GRAVELLY SAND; damp --RDR 2--	35		13	8 10 8	NP	4
	583.8	Boring terminated at 35.00 ft	40					

GENERAL NOTES

Begin Drilling: 06-01-2023 Complete Drilling: 06-01-2023
Drilling Contractor: Wang Testing Services Drill Rig: 21GeoA[96%]
Driller: AG&GUS Logger: M. Rojo Checked by: J. Bensen
Drilling Method: 2.25" IDA HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 6.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 7901151I.GPJ WANGENG.GDT 6/6/23

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
BORING LOGS

SCALE: | SHEET 12 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	604
		CONTRACT NO. 62R89		
	ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R89 (FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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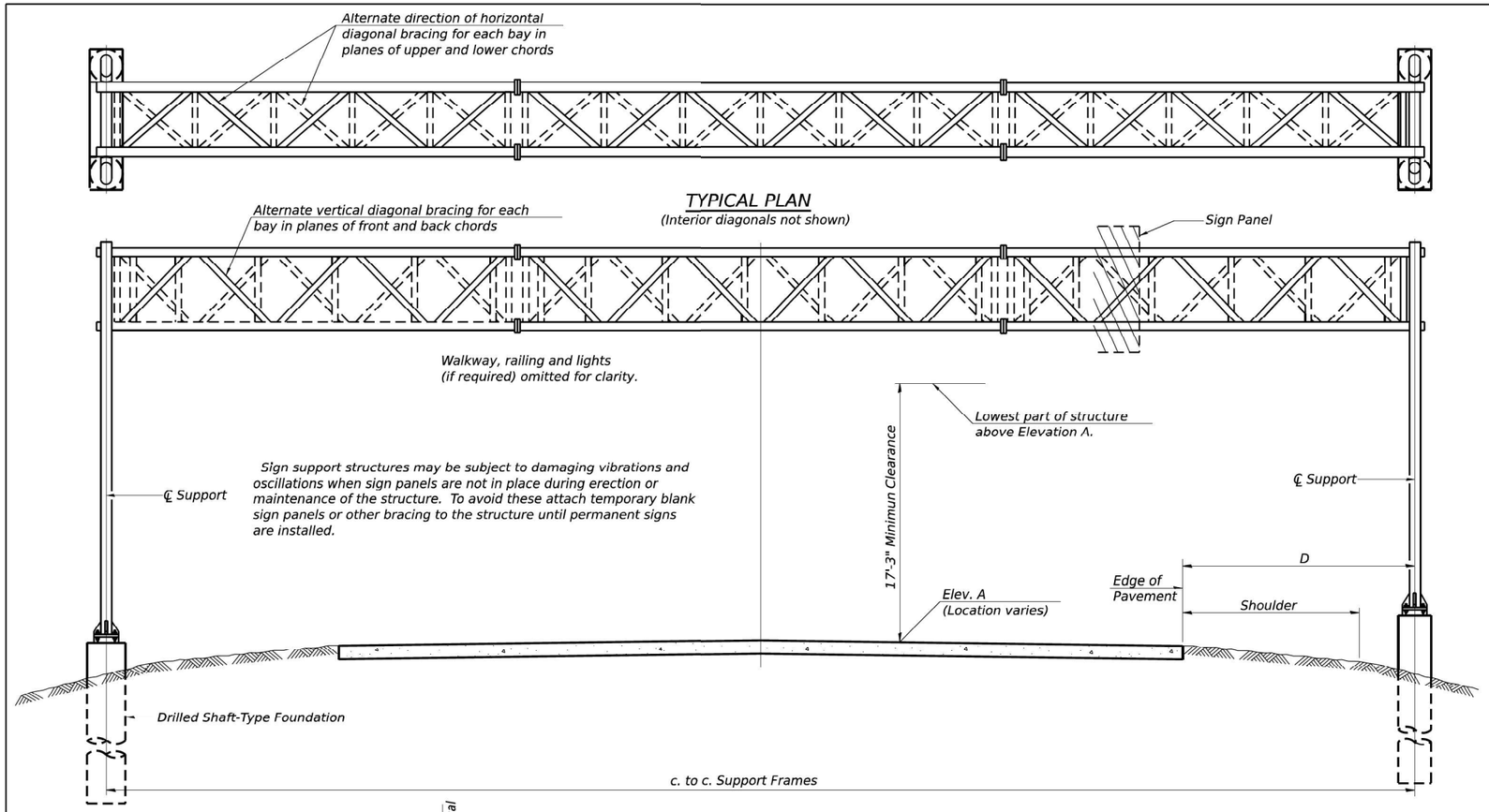
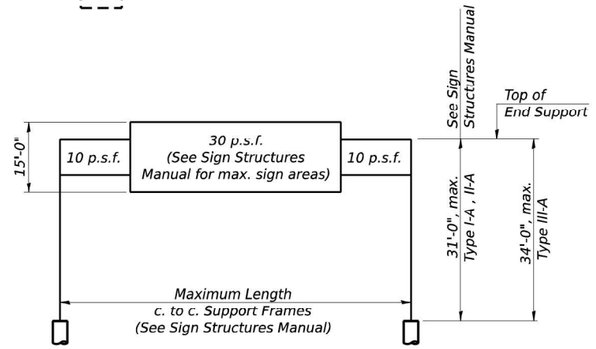
FOR INFORMATION ONLY



TYPICAL PLAN
(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S099I080R135.7	854+00	III-A	72'-0''	651.61	22'-6"	8'-0"	240 sqft
1S099I080L136.0	870+00	III-A	72'-0"	648.72	22'-6"	8'-0"	240 sqft

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Artie 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be eaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

FOUNDATION REMOVAL: Existing foundation removal shall be at least 3 feet below existing ground.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0'')	Foot	144
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	78
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	56.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	2
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	8

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS
SHEET 1 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	557
		CONTRACT NO. 62R29		
	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

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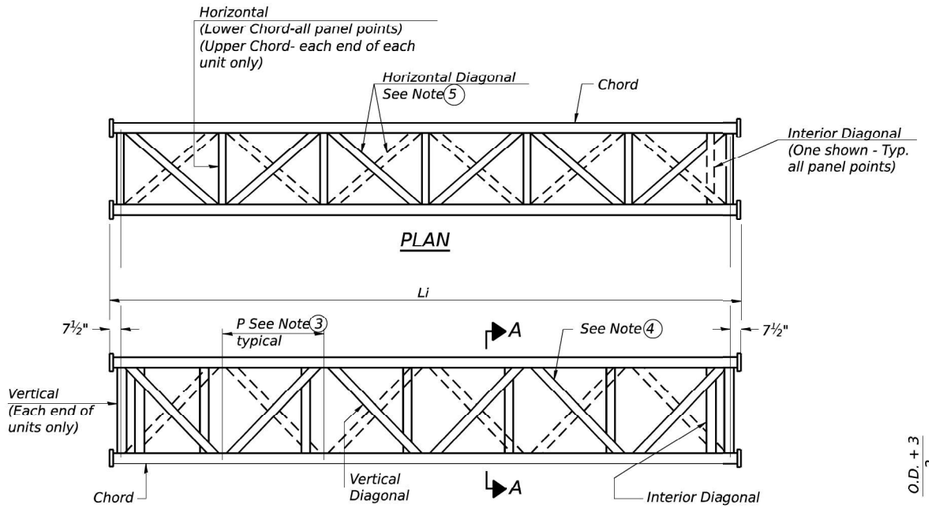
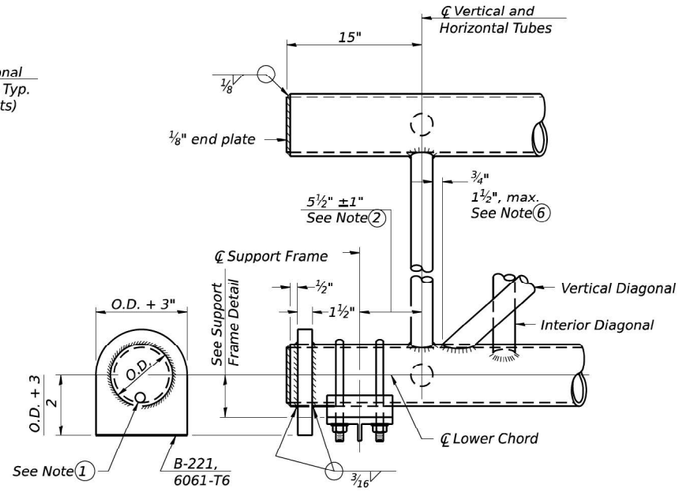


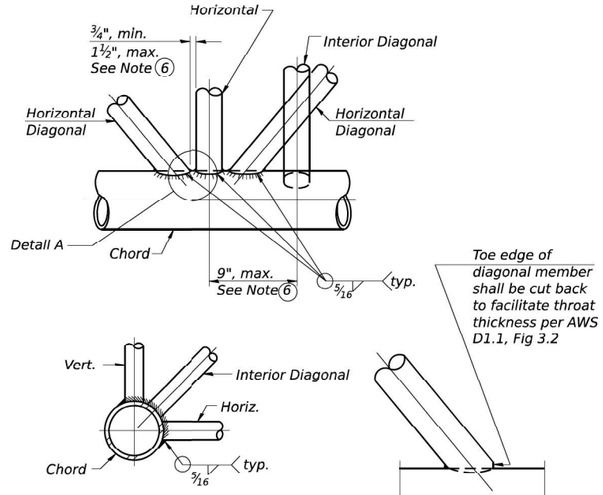
ELEVATION

TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

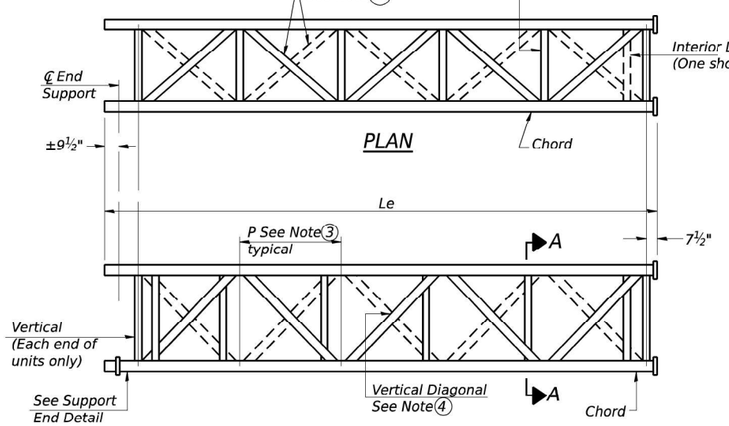


SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS

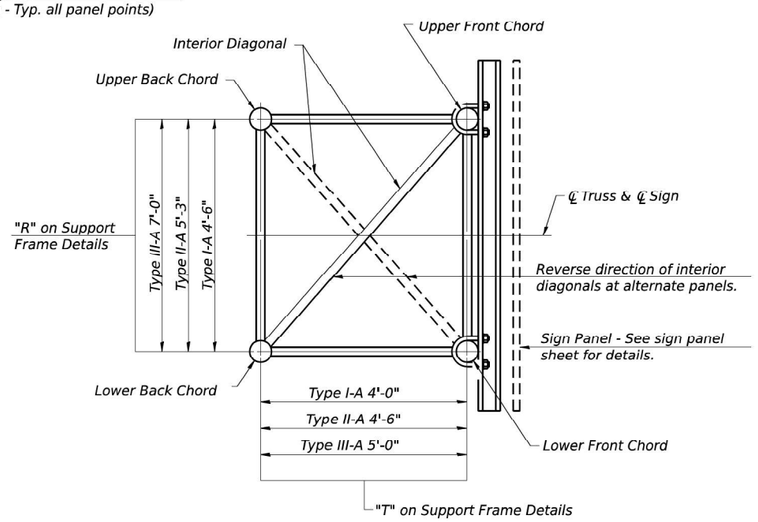
DETAIL A



ELEVATION

TYPICAL EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

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OS-A-2 2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A

SHEET 2 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	558
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)

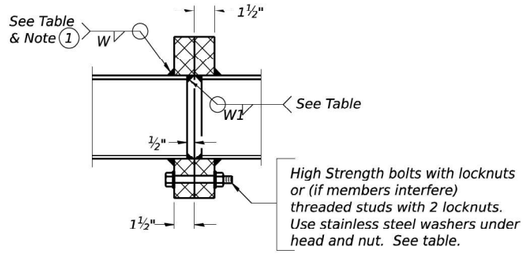
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	290
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY

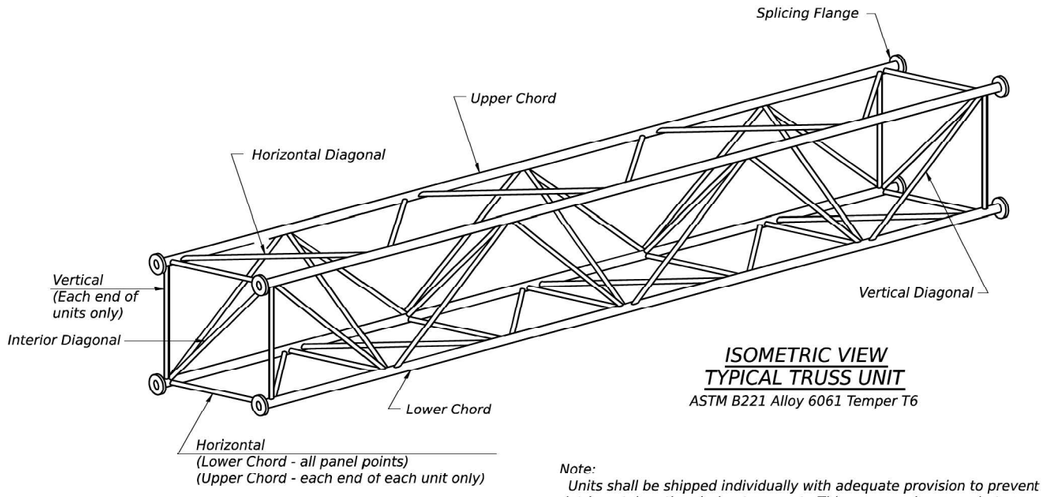
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical,Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
1S099I080R135.7	854+00	III-A	7	36'-10½"	5'-0"	0	——	——	——	7"	5/16"	3¼"	5/16"	7/8"	6	1"	7/16"	5/16"	11½"	15"
1S099I080L136.0	870+00	III-A	7	36'-10½"	5'-0"	0	——	——	——	7"	5/16"	3¼"	5/16"	7/8"	6	1"	7/16"	5/16"	11½"	15"



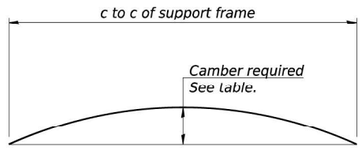
SECTION B-B

(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



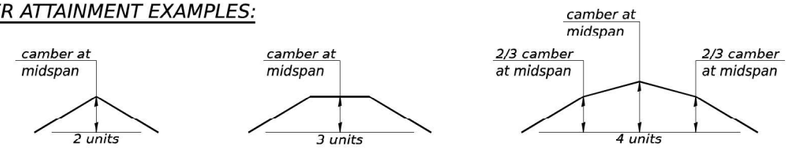
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

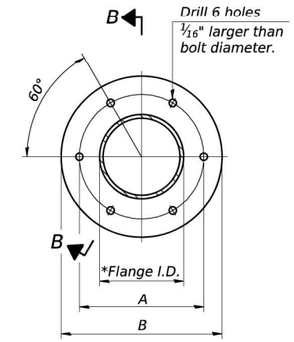


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

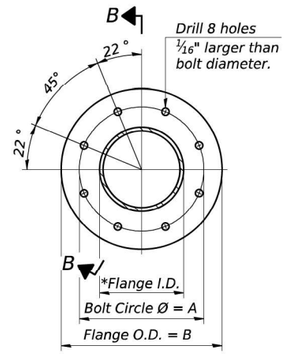
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

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FOR INFORMATION ONLY

OS4-A-2 2-17-2017

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OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I–A, II–A AND III–A
SHEET 3 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	559
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

USER NAME = SALASL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	291
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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MODEL: 2D SHEET M
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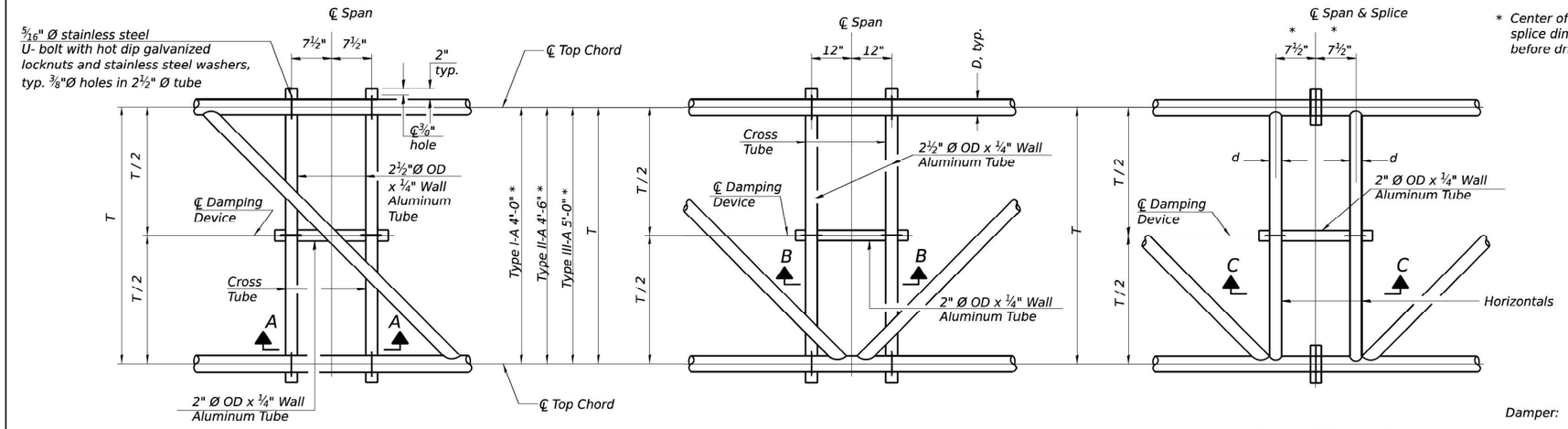
NOT IN CONTRACT
FOR INFORMATION ONLY



* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

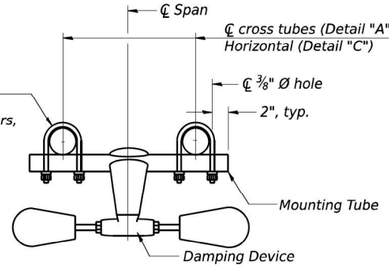
PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29"minimum between ends of weights) Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

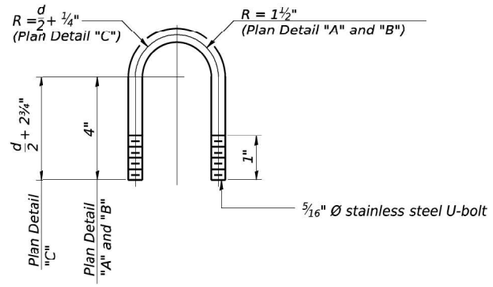
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

SECTION A-A



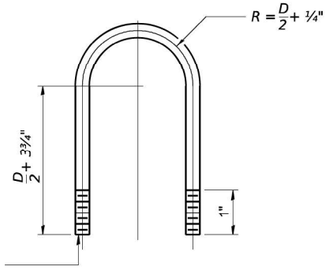
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)

SECTION B-B

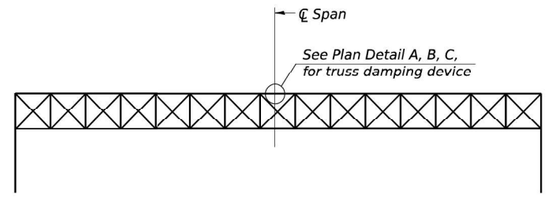


DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

SECTION C-C



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

OS-A-D 2-17-2017

exp.	USER NAME =	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURE DAMPING DEVICE
		CHECKED - BAR	REVISED -		SHEET 4 OF 13 SHEETS
	PLOT SCALE =	DRAWN - CS	REVISED -		
	PLOT DATE =	CHECKED - BAR	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	560
		CONTRACT NO. 62R29		
	ILLINOIS	FED. AID PROJECT		

exp.	USER NAME = SALASL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 OVERHEAD SIGN STRUCTURES CONTRACT 62R29 (FOR INFORMATION ONLY)
		DRAWN -	REVISED -		
	PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -		
	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	292
		CONTRACT NO. 62R19		
	ILLINOIS	FED. AID PROJECT		

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MODEL: 2D SHEET H
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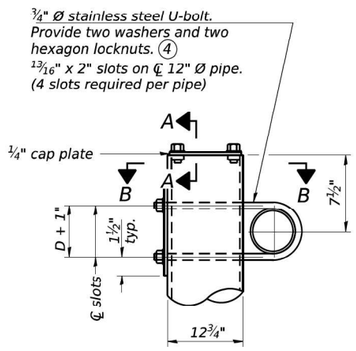
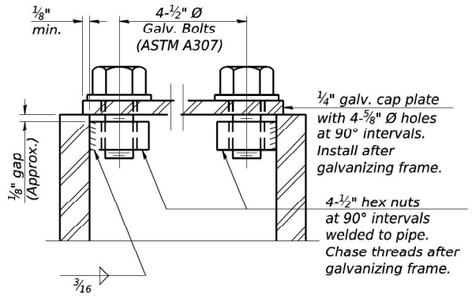
NOT IN CONTRACT
FOR INFORMATION ONLY

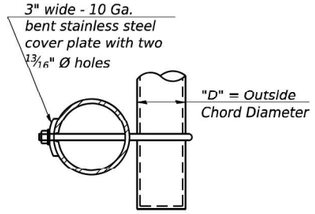


DETAIL A

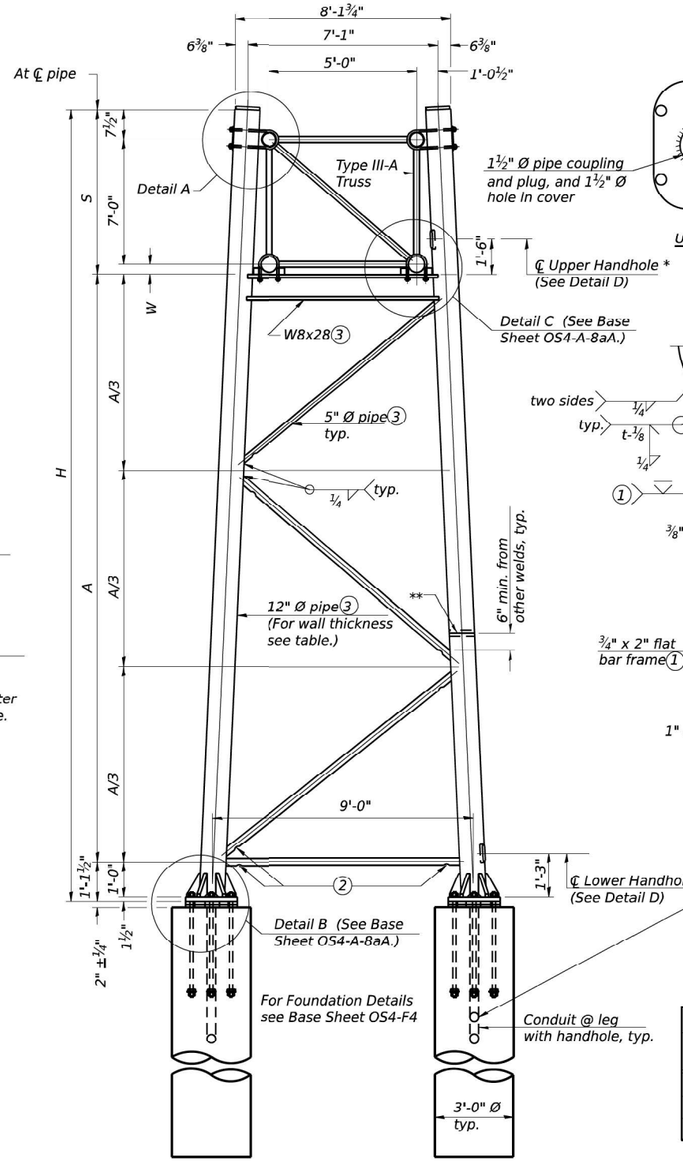


SECTION A-A

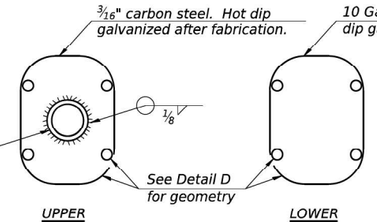
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



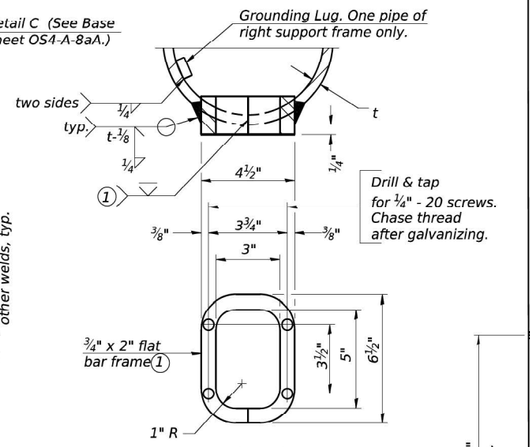
SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS



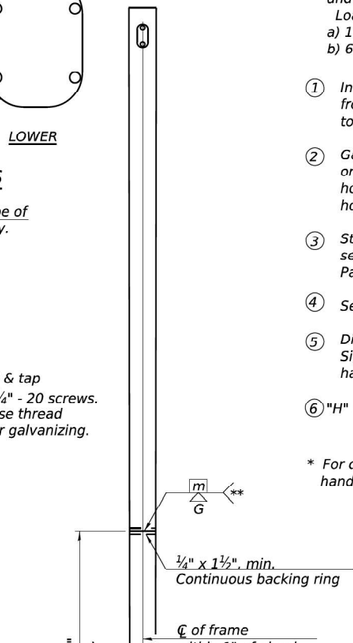
Provide 6½" x 4½" cover.
Provide 4-5/16" Ø holes in cover for ¼"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D

1" Galvanized Steel Conduit. Thread and cap both ends. One shaft of right foundation only.

Backfill shall be placed prior to erection of support frame

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4¾"	8'-0¼"
8½"	5½"	8'-1"
9"	5¾"	8'-1¼"



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

(1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

(6) "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

TRUSS SUPPORT DETAILS

(12" Ø Pipe-Type III-A Truss

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support Left	Support Right	Pipe Wall Thickness	H (6)	A
1S099I080R135.7	854+00	-	X	0.33"	28'-11¾"	19'-10"
1S099I080R135.7	854+00	X	-	0.33"	26'-9¾"	17'-8"
1S099I080L136.0	870+00	-	X	0.33"	28'-11¾"	19'-10"
1S099I080L136.0	870+00	X	-	0.33"	26'-9¾"	17'-8"

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	CHECKED - BAR	REVISED -	
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PLOT DATE =	CHECKED - BAR	REVISED -	

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DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – SUPPORT FRAME
FOR TYPE III–A ALUMINUM TRUSS
SHEET 5 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	561
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
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	DRAWN -	REVISED -	
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
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I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	293
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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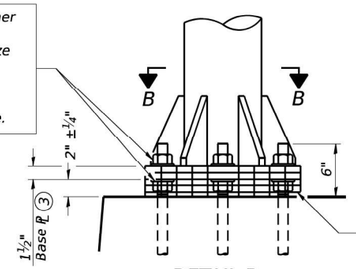
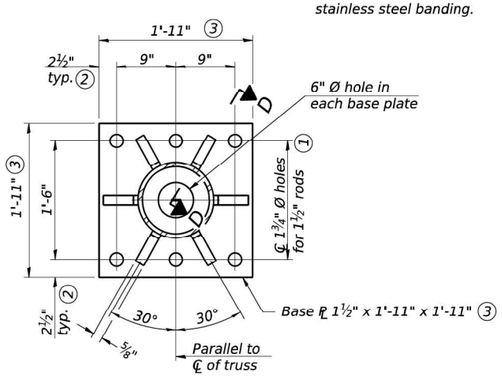
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



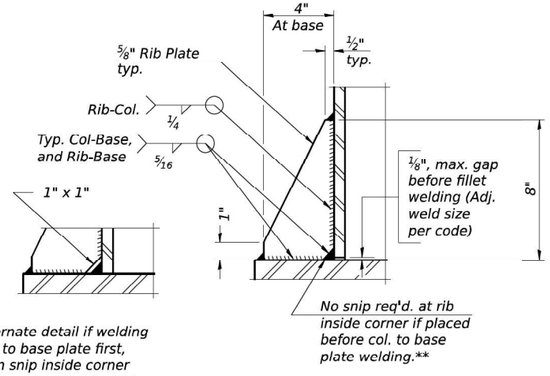
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, ¼" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.

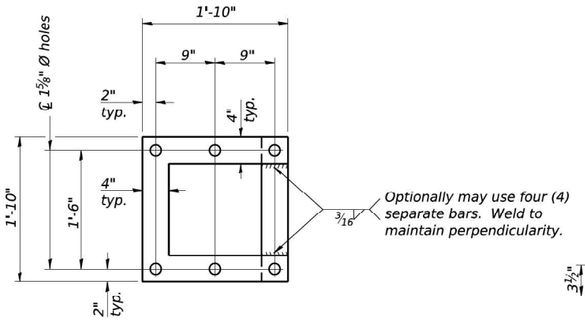


SECTION B-B

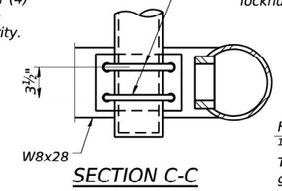


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D

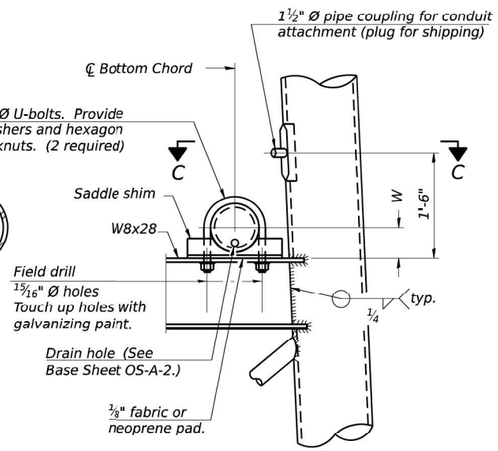


POSITIONING PLATE(S)

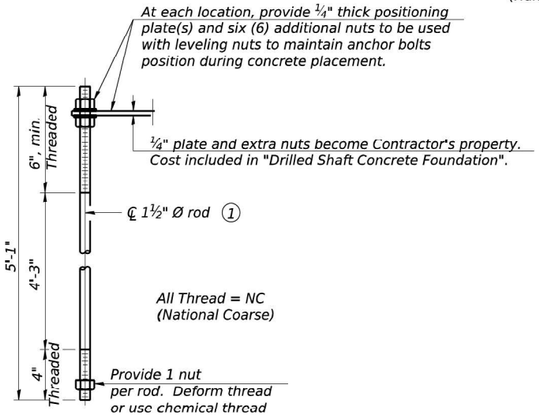


SECTION C-C

(Handhole cover not shown)



DETAIL C



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

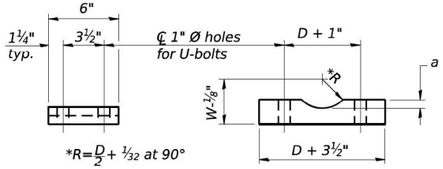
TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

① 1¾" Ø rod, 2" Ø holes

② 2¾" edge distance

③ Base ℄ 1⅝" x 1'-11½" x 1'-11½"



D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7"	1"
8½"	1¼"
9"	1⅜"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

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FOR INFORMATION ONLY

MODEL: DEFAULT
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS3265662R19-SHT-62R29-DMS-06.DGN

MODEL: 2D SHEET H
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OS4-A-8aA 2-17-2017

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STATE OF ILLINOIS
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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS
SHEET 6 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	562
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

exp.

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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

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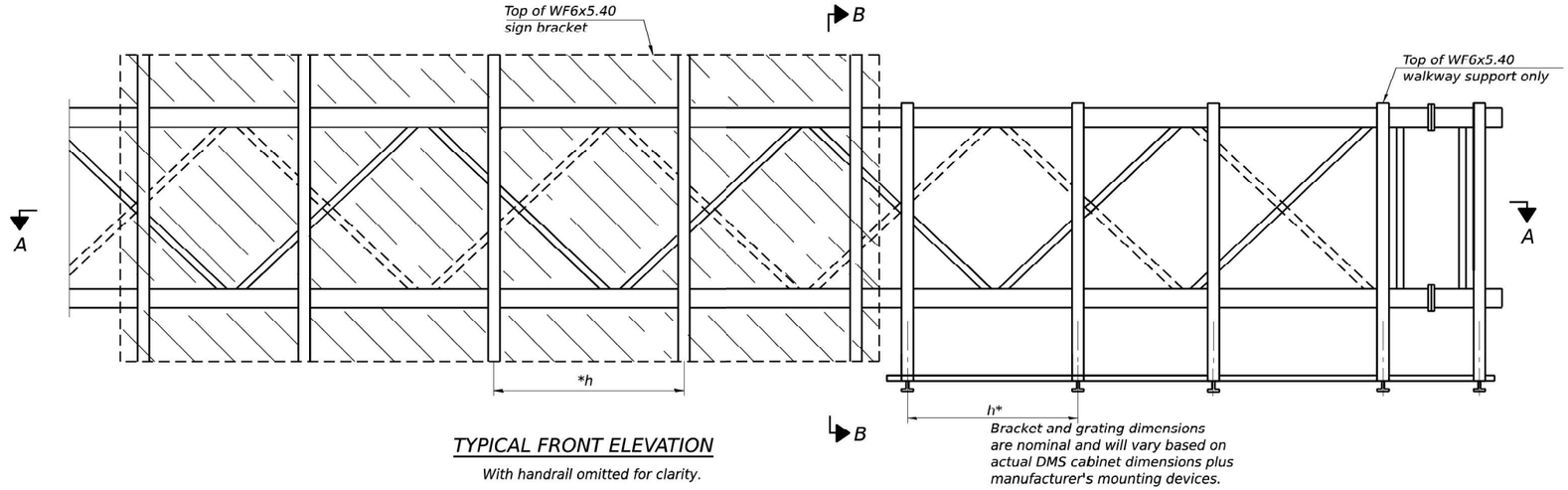
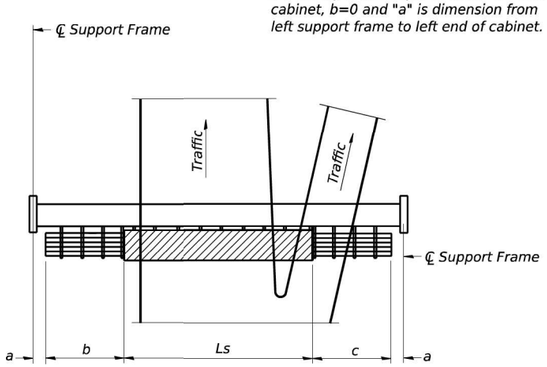
FOR INFORMATION ONLY



TYPICAL FRONT ELEVATION

With handrail omitted for clarity.

Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

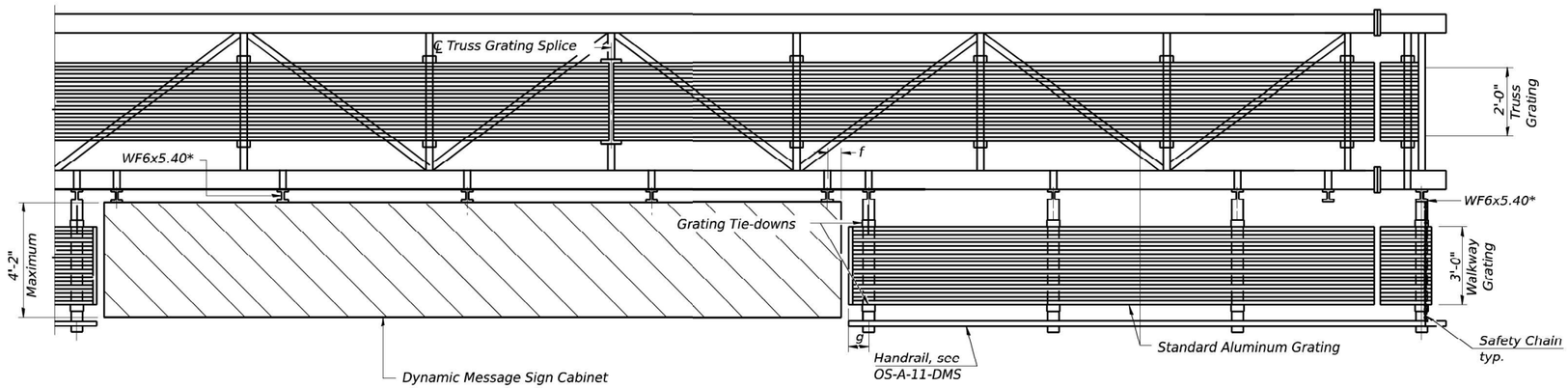


PLAN

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)

① If walkway is required left of the DMS cabinet, a=1'-6" and b=walkway lengths. If walkway is not required left of the DMS cabinet, b=0 and "a" is dimension from left support frame to left end of cabinet.



Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

SECTION A-A

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Grating and handrail splices placed as needed.

BRACKET TABLE

WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Structure Number	Station	a	b	c	Ls	Walkway Grating and Handrail Lengths
1S099I080R135.7	854+00	1'-6"	15'-0"	24'-0"	30'-0"	39'-0"
1S099I080L136.0	870+00	1'-6"	15'-0"	24'-0"	30'-0"	39'-0"

Notes:
* Space walkway brackets WF6x5.40 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

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OS-A-9-DMS 2-17-2017

MODEL: DEFAULT
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PLOT DATE =	CHECKED - BAR	REVISED -	

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DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS
SHEET 7 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	563
		CONTRACT NO. 62R29		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS3265\62R19-SHT-62R29-DMS-07.DGN

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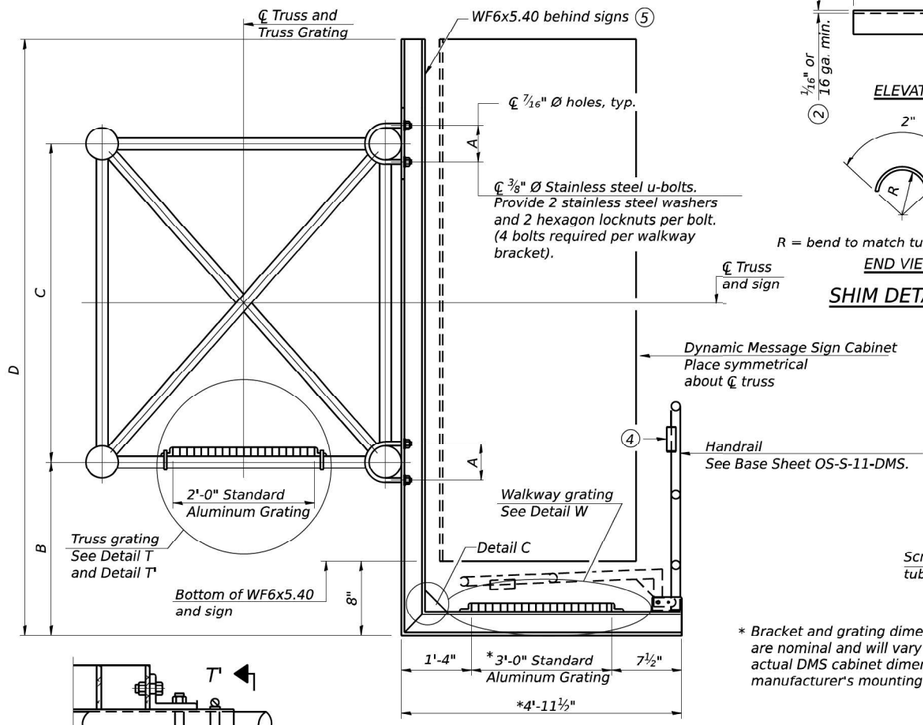
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

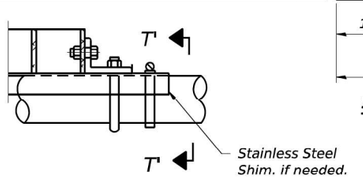
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	295
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

NOT IN CONTRACT
FOR INFORMATION ONLY



SECTION B-B

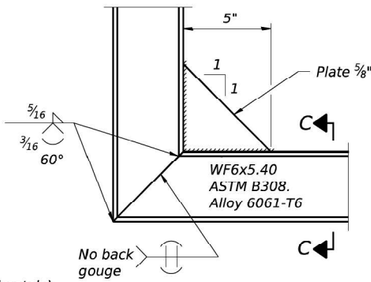
* Bracket and grading dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.



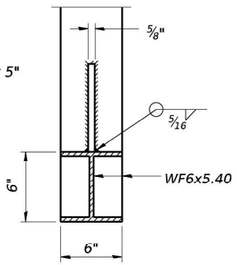
DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

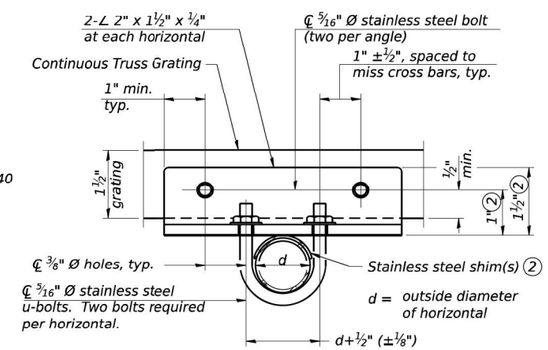
SHIM DETAIL



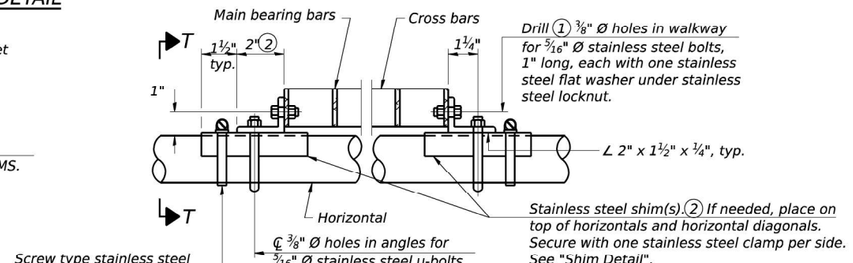
DETAIL C



SECTION C-C

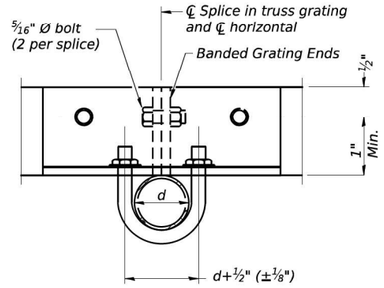


SECTION T-T

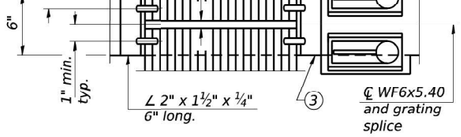


DETAIL T

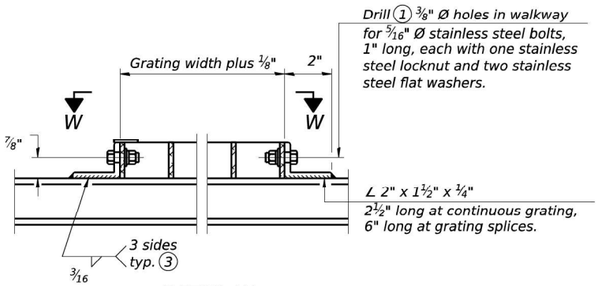
(Continuous Truss grating)



SECTION T'-T'

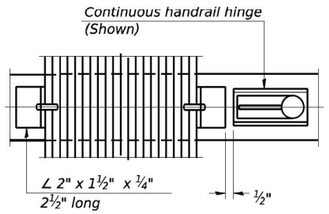


(AT WALKWAY GRATING SPLICE)



DETAIL W

(Walkway grating)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	(6) B	C	(6) D
1S099I080R135.7	854+00	7½"	1'-2"	7'-0"	8'-8"
1S099I080L136.0	870+00	7½"	1'-2"	7'-0"	8'-8"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11-DMS.)

(4) ℄ ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

(6) Based on actual height of tallest sign given on OS-A-1.

NOT IN CONTRACT
FOR INFORMATION ONLY

MODEL: DEFAULT
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OS-A-10-DMS 2-17-2017

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	PLOT DATE =	CHECKED - BAR	REVISED -	

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS
SHEET 8 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	564
		CONTRACT NO. 62R29		
		ILLINOIS	FED. AID PROJECT	

MODEL: 2D SHEET H
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	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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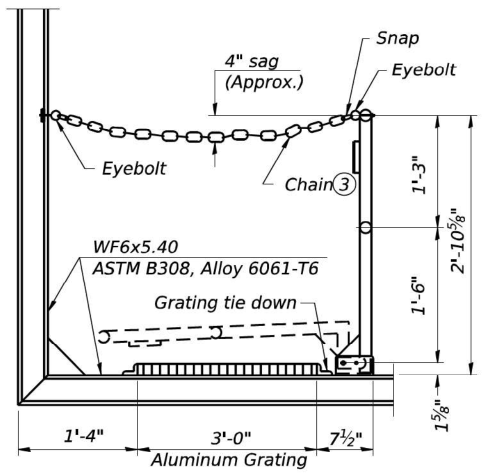
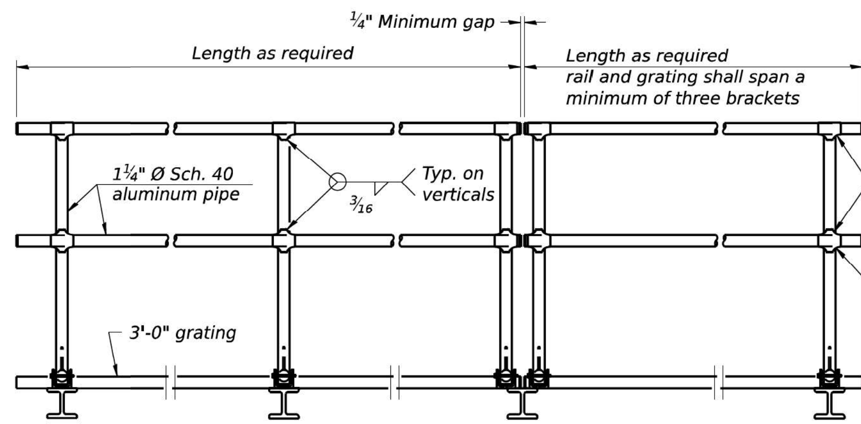
		CONTRACT NO. 62R19		
		ILLINOIS	FED. AID PROJECT	

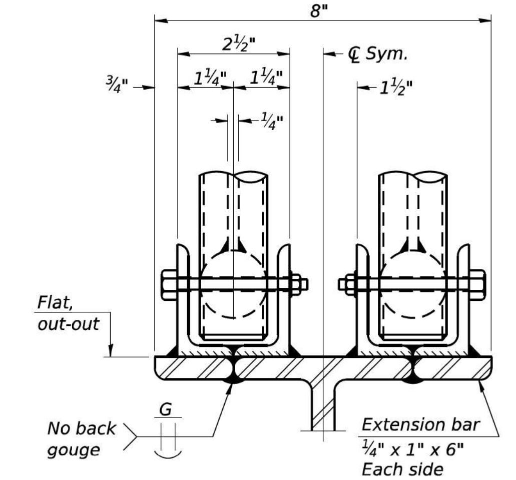


SIDE ELEVATION
(Showing safety chain w/o sign)



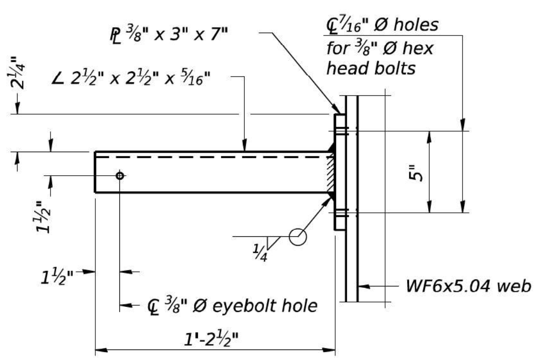
FRONT ELEVATION

① Install standard force-fit end caps or weld ⅛" end plates with ⅛" c.f.w. and grind smooth. (All rail ends)



ELEVATION AT HANDRAIL JOINT ④

HANDRAIL DETAILS
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

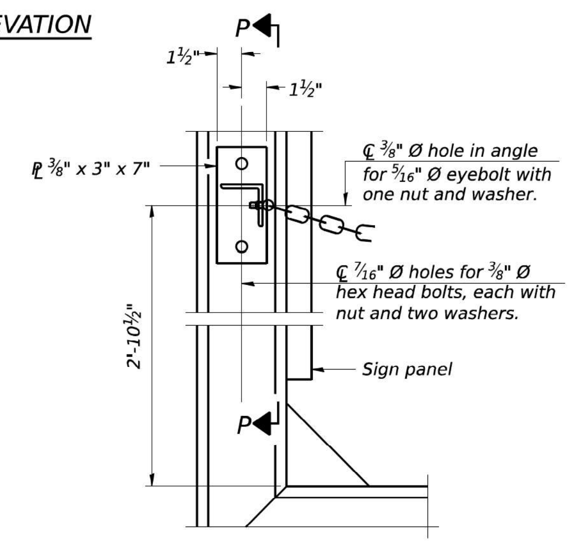


SECTION P-P

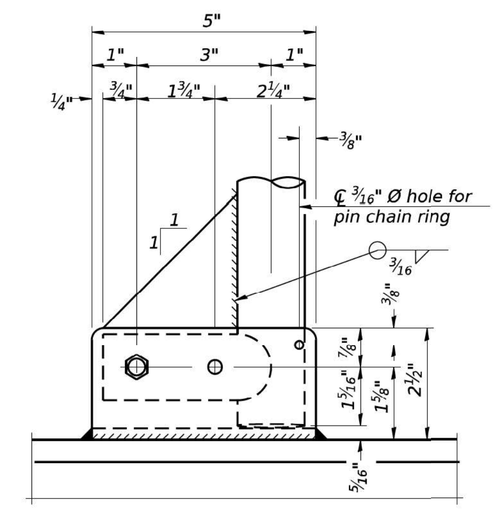
② Horizontal handrail member shall be continuous thru fitting. Provide 7⁄16" Ø hole in fitting for ⅜" Ø bolt. Field drill 7⁄16" Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5⁄16" eyebolts in 7⁄16" Ø holes on top rail at ends only.)

③ 3⁄16" type 304L stainless steel chain, approximately 12 links per foot.

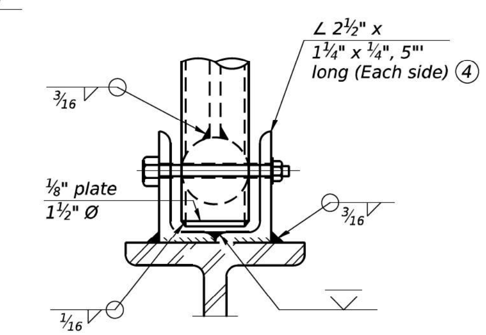
④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



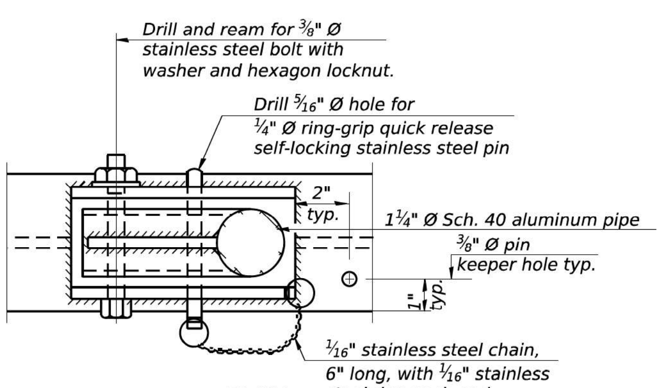
ALTERNATE SAFETY CHAIN ATTACHMENT



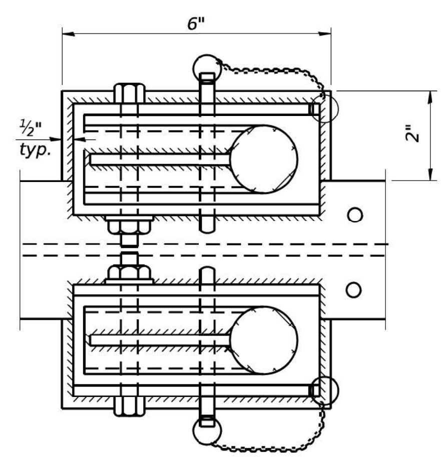
SIDE ELEVATION



FRONT ELEVATION
See "ELEVATION" at right for dimensions.

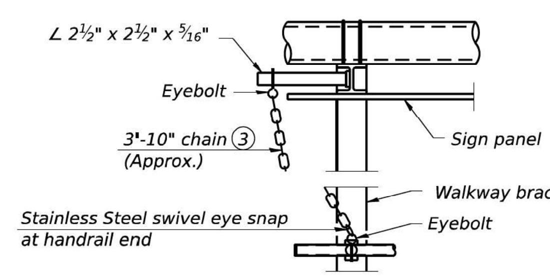


PLAN
DETAIL E HANDRAIL HINGE

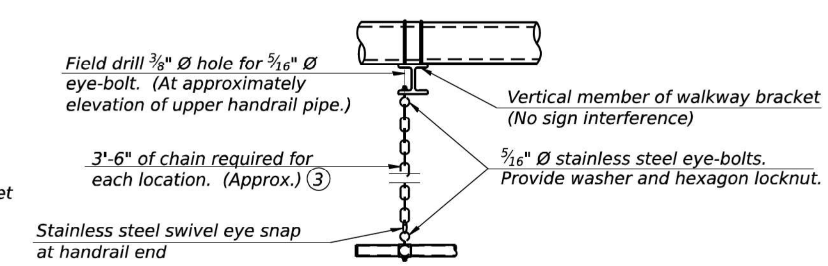


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)



SAFETY CHAIN
One required for each end of each walkway.

OS-A-11-DMS 2-17-2017

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	PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -							

MODEL: 2D SHEET H
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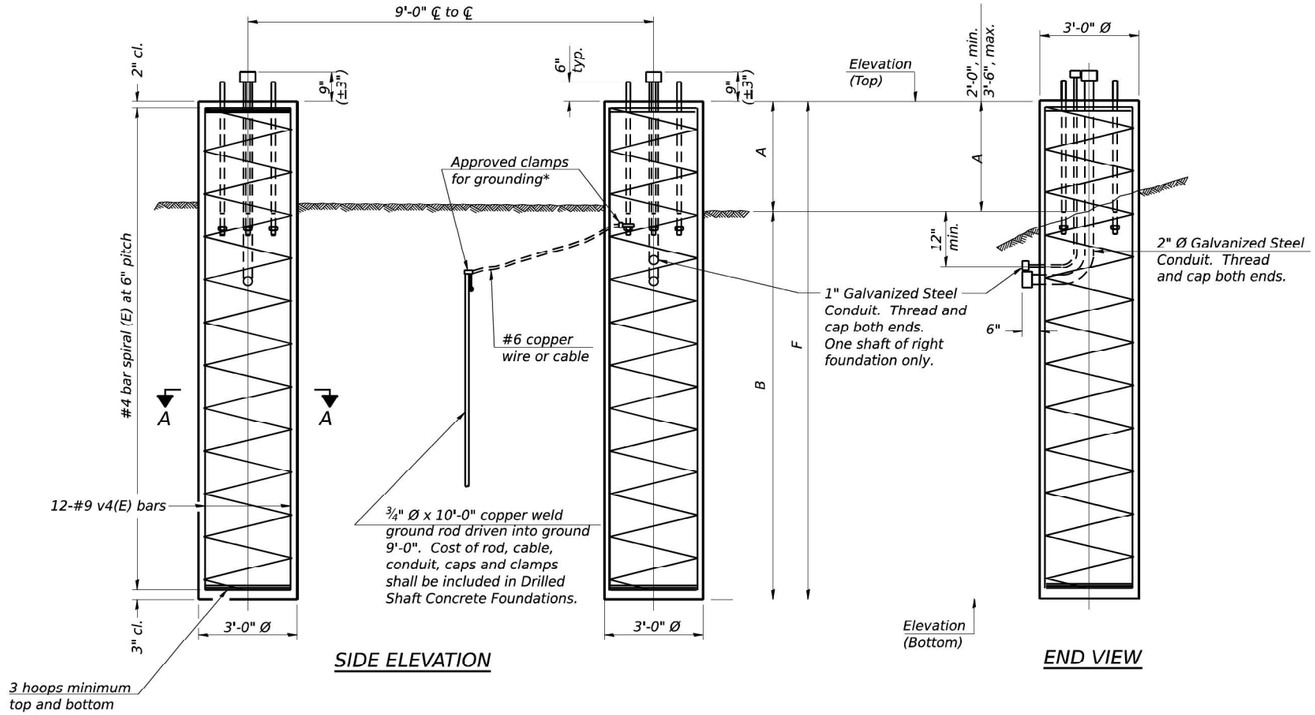
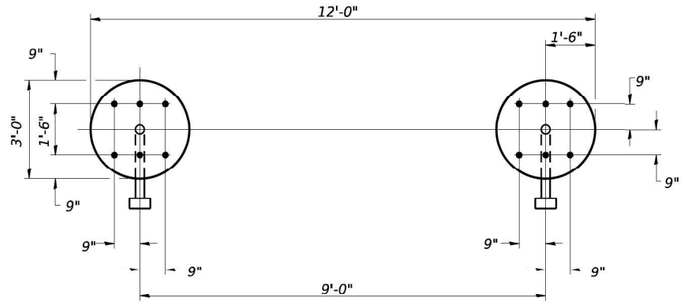
NOT IN CONTRACT FOR INFORMATION ONLY

NOT IN CONTRACT
FOR INFORMATION ONLY



SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	——
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

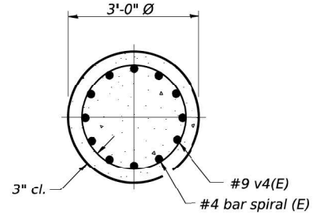
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
1S099I080R135.7	854+00	-	-	-	-	-	652.25	631.75	2'-6"	18'-0"	20'-6"	10.7
1S099I080L136.0	870+00	-	-	-	-	-	649.39	628.89	2'-6"	18'-0"	20'-6"	10.7

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PLOT SCALE =	DRAWN - CS	REVISED -	
PLOT DATE =	CHECKED - BAR	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS
SHEET 10 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	566
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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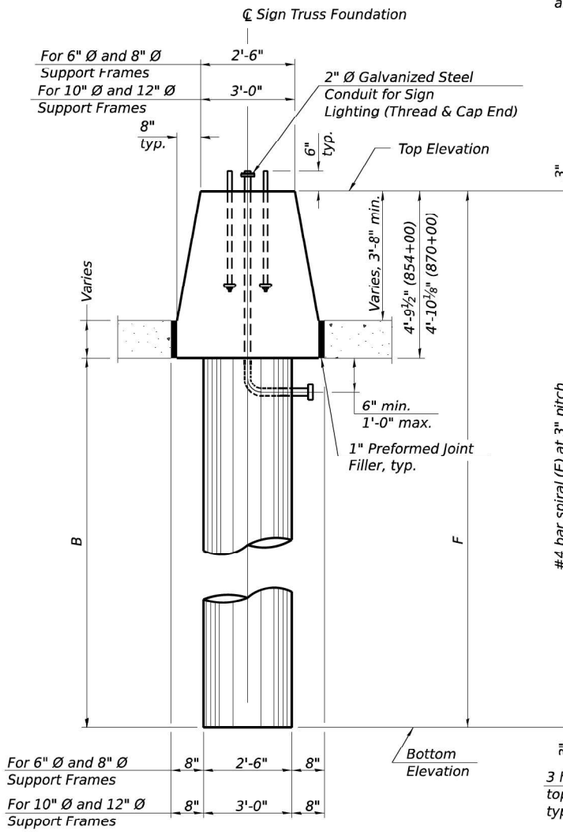
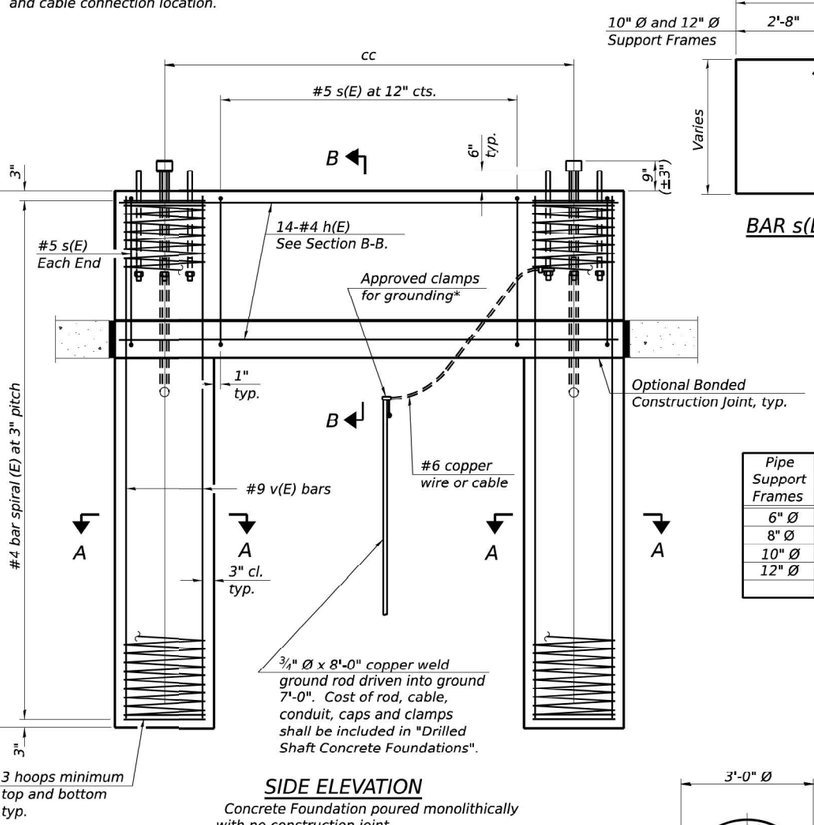
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
FOR INFORMATION ONLY



* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.



SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.

BAR s(E)

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	14	#4	M less 4"	
s(E)	Varies	#5	Varies	
v(E)	16	#9	F less 0'-5"	
v(E)	24	#9	F less 0'-5"	
#4(E) bar spiral. See Side Elevation				

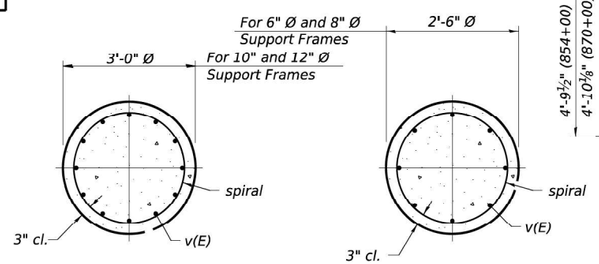
6" Ø and 8" Ø Support Frame

10" Ø and 12" Ø Support Frame

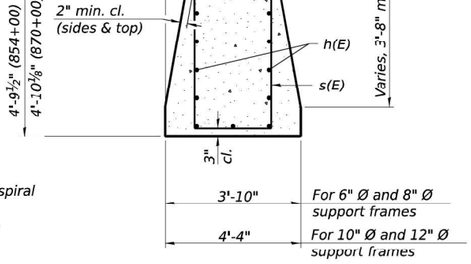
Pipe Support Frames	cc	M	a	a/2
6" Ø	7'-0"	9'-6"	0'-11"	5½"
8" Ø	7'-6"	10'-0"	1'-1½"	6¾"
10" Ø	8'-3"	11'-3"	1'-3"	7½"
12" Ø	9'-0"	12'-0"	1'-6"	9"

END VIEW

PLAN



SECTION A-A



SECTION B-B

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
1S099I080R135.7	854+00	654.42	631.63	18'-0"	22'-9½"	-	-	-	-	17.6
1S099I080L136.0	870+00	651.56	628.72	18'-0"	22'-10⅛"	-	-	-	-	17.6

NOT IN CONTRACT
FOR INFORMATION ONLY

MODEL: DEFAULT
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PLOT SCALE =	DRAWN - CS	REVISED -
PLOT DATE =	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
SHEET 11 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	567
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
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PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	299
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			

NOT IN CONTRACT
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Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

SOIL BORING LOG

GEO Job No. 20012
Page 1 of 1
Date 2/25/23

ROUTE FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TZ
SECTION - LOCATION , SEC. , TWP. , RNG.
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. OSB-008
Station 853+95
Offset 31.00ft Right
Ground Surface Elev. 649.76 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to -5.0' ft
Upon Completion n/a ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT			
648.76			1
12.0" STONE	10		
647.76	8		16
CLAY with Gravel-brown & gray-hard	4		
646.26			
CLAY LOAM-brown & gray-medium stiff to very stiff	5		
	8	2.20	24
-5	11	B	
	4		
	6	1.20	26
	8	B	
	4		
	7	2.10	21
-10	9	B	
becoming gray @ -11.0'	7		
	11	2.80	19
	14	B	
	6		
	8	1.80	19
-15	10	B	
	5		
	7	1.30	21
	8	B	
	5		
	6	0.90	21
-20	8	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-medium stiff to very stiff *(continued)*			
	4		
	6	1.10	21
	8	B	
	5		
	7	0.40	12
-25	9	B	
	5		
	7	0.70	13
	8	B	
	6		
	7	0.40	13
-30	10	B	
616.26			
CRUSHED LIMESTONE-gray-very dense	9		
	50/5"		11
-35			
	50/2"		
End Of Boring @ -40.0'. Boring backfilled with cuttings.			10
609.76 -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GEO Job No. 20012
Page 1 of 1
Date 1/11/23

ROUTE FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY RT/VH
SECTION - LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. OSB-009
Station 854+03
Offset 65.00ft Right
Ground Surface Elev. 651.02 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
15.0" ASPHALT			
649.77	7		1
SILTY CLAY with Gravel-brown-hard	5	4.50	19
	7	P	
	4		
	4	0.50	21
becoming brown & gray @ -5.0' 646.02	4	P	
-5			
CLAY LOAM-brown & gray-hard	2		
	2	1.75	24
	4	P	
	4		
	6	2.25	22
-10	11	P	
	5		
	8	3.25	24
	11	P	
becoming gray @ -13.5'	7		
	8	3.50	22
-15	13	P	
	5		
	7	2.00	20
	9	P	
	5		
	8	1.75	15
End Of Boring @ -40.0'. Boring backfilled with cuttings.	8	P	
611.02 -40			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-hard *(continued)*			
	4		
	6	1.00	13
	8	P	
	5		
	6	1.25	14
-25	7	P	
	6		
	7	0.75	13
	10	P	
	7		
	8	0.75	14
-30	12	P	
621.02			
CLAYEY SAND & GRAVEL-gray-very dense	50/5"		12
-35			
612.52			
SILT wit Gravel-gray-very dense	50/1"		9

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\2012 BORING LOGS\20012_LOG.GPJ 3/6/23

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MODEL: DEFAULT
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS\3265662\R19-SHT-62R29-DMS-12.DGN

exp.

USER NAME =	DESIGNED - CS	REVISED -	
	CHECKED - BAR	REVISED -	
PLOT SCALE =	DRAWN - CS	REVISED -	
PLOT DATE =	CHECKED - BAR	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
BORING LOGS 1
SHEET 12 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	568
		CONTRACT NO. 62R29		
	ILLINOIS FED. AID PROJECT			

MODEL: 2D SHEET H
FILE NAME: C:\TRANSYSTEMS\PW_LOCAL\TRANSYSTEMS-PW-01\DMS\3265662\R19-SHT-62R29-DMS-12.DGN

exp.

USER NAME = SALASL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 11/12/2025	DATE - 11/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 OVERHEAD SIGN STRUCTURES
CONTRACT 62R29 (FOR INFORMATION ONLY)
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 VLS	VARIOUS	467	300
		CONTRACT NO. 62R19		
	ILLINOIS FED. AID PROJECT			