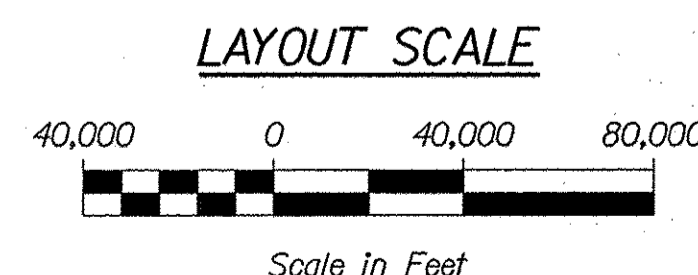
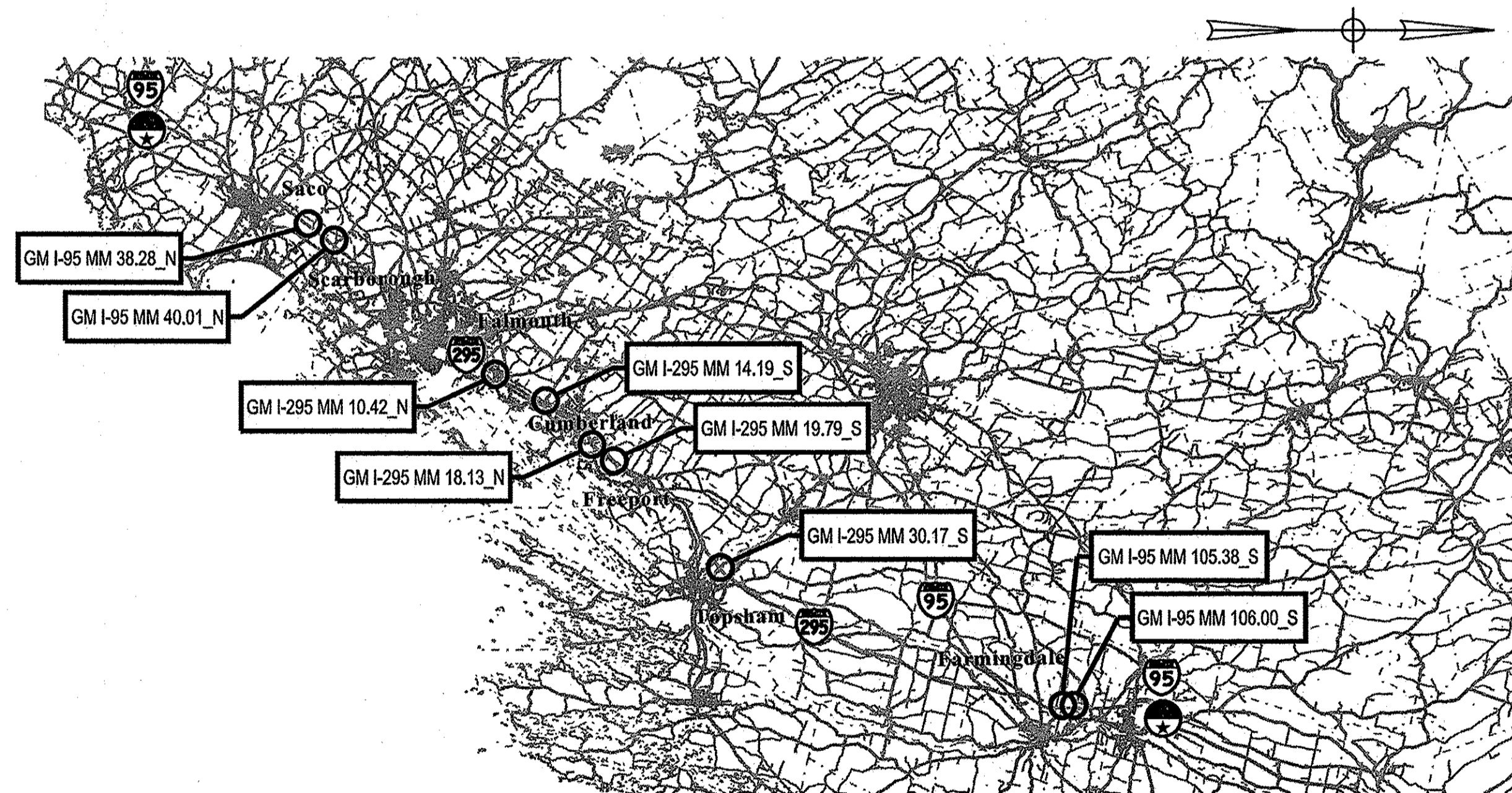


STATE OF MAINE DEPARTMENT OF TRANSPORTATION



STATEWIDE IMPLEMENTATION OF INTELLIGENT TRANSPORTATION SYSTEMS (ITS) TRAVEL TIME SIGNS MAINEDOT WIN NO: 23767.04 PROJECT LENGTH : 61.50 MILES



PLAN LEGEND	
Town, County, State	Centerline-Existing
Property Lines	Centerline-Proposed
R/W Lines-Existing	Travelway-Existing
R/W Lines-Proposed	Travelway-Proposed
Culvert-Existing	Railroad
Culvert Proposed	Catch Basins
Curbing Existing	Manholes
Curbing Proposed	Proposed Underdrain
Type 1	Proposed Ditch
Type 3	Existing Ditch
Type 5	Utility Poles
Outline of Bodies of Water	Fire Hydrants
Exposed Bedrock	Existing Water Line
Buildings	Existing San. Sewer
Trees Conifer	Existing San. Sewer Manhole
Trees Deciduous	Guardrail-Existing
Tree Line	Guardrail-Proposed
Clearing Limit Line	Guardrail-Cable, Other
Fencing-Existing	Boring
Fencing-Proposed	
Controller with Cabinet	Existing
Meter Pedestal	Proposed
Junction Box	
Ground Mounted Type I Sign	
Electrical Conduit	
Solar Panel Array on Steel Pole and Concrete Foundation	
Portable Changeable Message Sign (PCMS)	
Demountable Reflectorized Delineator	

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
General Notes	2
Location Maps	3
Traffic Control Plans	4-5
Sign Summary Sheet	6
Details	7
Communications Diagrams	8-9
Travel Time Sign Plans	10-19

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER	5/11/18	5-11-18
CHIEF ENGINEER		



SIGNATURE	DATE
1/4/18	5/12/18
P.E. NUMBER	

PROGRAM	TRAFFIC
PROJECT MANAGER	S. LANDRY
DESIGNER	E. DREW
CONSULTANT	VHB
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

ITS
TRAVEL TIME SIGNS
TITLE SHEET

PROJECT LOCATION:	Along I-95 (Maine Turnpike) in Saco, Scarborough and Farmingdale. Along I-295 in Falmouth, Cumberland, Freeport and Topsham.
PROGRAM AREA:	Traffic (In Cooperation with Maine Turnpike Authority)
OUTLINE OF WORK:	Install New Type I Guide Signs with Dynamic Message Signs (DMS) Inserts for Hybrid Travel Time Sign System

WIN23767.04

SHEET NUMBER	1
OF 19	

Date: 5/2/2018

Username: jacobert

Division: HIGHWAY

Filename: ...cod\its\plan\set\001_Title.dgn

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2014 EDITION OF THE MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD SPECIFICATIONS.
2. CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE 2014 EDITION OF THE MAINEDOT STANDARD DETAILS AND THE MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL (LATEST EDITION AND REVISIONS) UNLESS OTHERWISE INDICATED IN THESE PLANS.
3. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
4. NO FORMAL SURVEY WAS CONDUCTED FOR THE CONSTRUCTION OF THIS PROJECT. ALL DESIGN WAS BASED ON AERIAL PHOTOGRAPHY AND FIELD INVESTIGATIONS. THE I-95 BASELINE INCLUDED IN THE PLAN SET WAS ESTABLISHED BY THE MTA FOR GENERAL USE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ACTUAL ELEVATIONS FOR THE PROPOSED SIGN LOCATIONS.
5. THE CONTRACTOR SHALL STAKE OUT THE LOCATIONS OF ALL SIGNS TO BE INSTALLED ON NEW SUPPORTS FOR REVIEW AND APPROVAL BY THE RESIDENT PRIOR TO ORDERING AND FABRICATING STEEL H-BEAM SUPPORTS.
6. THE LENGTH OF THE VERTICAL SUPPORTS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL SIGN SUPPORT LENGTHS TO FIT THE APPROVED SIGN LOCATION. THE MINIMUM 7 FOOT MOUNTING HEIGHT OF THE SIGN ABOVE THE PAVEMENT SURFACE SHALL BE THE CONTROLLING DIMENSION TO DETERMINE THE LENGTH OF THE VERTICAL SUPPORT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING THEIR OWN ACTUAL ELEVATION AND CROSS-SECTION INVESTIGATIONS FOR SIGNS PROPOSED ON SUPPORTS.
8. THE CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL ALSO CONTACT DIG SMART TO LOCATE DEPARTMENT AND AUTHORITY UTILITIES WITHIN EACH PROJECT AREA.
9. THE CONTRACTOR SHALL INSTALL NEW U-CHANNEL DELINEATOR POSTS FOR CONDUIT RUNS AND EACH JUNCTION BOX INSTALLED ALONG I-95 (MAINE TURNPIKE). DELINEATORS SHALL BE INSTALLED ADJACENT TO EACH JUNCTION BOX AND AT THE IDENTIFIED LOCATIONS ALONG CONDUIT RUNS. DELINEATORS SHALL HAVE RED REFLECTORS FACING ON-COMING TRAFFIC.
10. ALL STATIC PORTIONS OF SIGNS SHALL HAVE ASTM D4956 TYPE XI RETROREFLECTIVE SHEETING.

SALVAGING SIGNS AND SIGN SUPPORTS:

1. THE DEPARTMENT HAS THE RIGHT OF FIRST REFUSAL ON SALVAGING REMOVED EQUIPMENT FOR THIS PROJECT. THE CONTRACTOR SHALL TAKE CARE WHEN REMOVING SIGNS AND SIGN SUPPORTS TO AVOID ADDITIONAL WEAR AND TEAR TO THE EXISTING HARDWARE. THE CONTRACTOR SHALL TRANSPORT AND DELIVER ALL ACCEPTED SALVAGED MATERIALS, EQUIPMENT AND HARDWARE TO THE MAINE DEPARTMENT OF TRANSPORTATION SIGN SHOP. DELIVERY OF SALVAGED MATERIALS SHALL BE COORDINATED THROUGH THE RESIDENT. FOR SALVAGING STEEL SIGN SUPPORTS, EACH SUPPORT SALVAGED SHALL BE IDENTIFIED BY THE MILE POINT FROM WHICH IT WAS REMOVED, ITS OVERALL LENGTH, AND ITS SIZE (IF KNOWN).

CLEAR ZONE AND GUARDRAIL PROTECTION:

1. THE CLEAR ZONE, AS DEFINED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) FOR I-95 (MAINE TURNPIKE) AND I-295 SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE AND LATEST ERRATA FROM TABLE 3-1 "SUGGESTED CLEAR-ZONE DISTANCES (IN FEET) FROM EDGE OF TRAVELED LANE." ANY SIGN WITH AT LEAST ONE SUPPORT WITHIN THE CLEAR ZONE SHALL BE CONSIDERED TO BE ENTIRELY WITHIN THE CLEAR ZONE AND ALL SUPPORTS FOR THAT SIGN SHALL BE BREAKAWAY OR SHALL BE PROTECTED IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE.
2. WHERE GUARDRAIL PROTECTS THE SIGN, THE NEAREST EDGE OF SIGN SHALL NOT BE CLOSER THAN SIX (6) FEET FROM THE FACE OF THE GUARDRAIL.
3. IF THE CONTRACTOR ELECTS TO REMOVE A SEGMENT OF GUARDRAIL FOR ACCESS TO THE WORK AREA, THE CONTRACTOR SHALL RESET THE GUARDRAIL AT THE END OF THE WORK DAY. ALTERNATIVELY, THE CONTRACTOR SHALL PROTECT THE TEMPORARY BLUNT END WITH A SUITABLE CRASH CUSHION. CRASH CUSHIONS INSTALLED FOR THE CONTRACTOR'S CONVENIENCE WILL NOT BE PAID FOR BUT WILL BE CONSIDERED INCIDENTAL TO THE MAINTENANCE OF TRAFFIC CONTROL DEVICES ITEM.

SIGN SUPPORTS AND FOUNDATIONS:

1. ALL NEW STEEL H-BEAM SUPPORTS SHALL EXTEND TO THE TOP OF THE NEW SIGN, EXCEPT WHERE NOTED IN THE PLANS.
2. IF THE CONTRACTOR ENCOUNTERS LEDGE AT A DEPTH LESS THAN THE REQUIRED FOUNDATION DEPTH, THE CONTRACTOR HAS THE OPTION TO REMOVE THE ROCK TO THE DEPTH REQUIRED FOR THE FOUNDATION OR TO CONSTRUCT A GROUTED ROCK-ANCHORED FOUNDATION IN ACCORDANCE WITH MAINEDOT STANDARD DETAIL 6261061.
3. IF THE CONTRACTOR ENCOUNTERS UNSUITABLE SOILS (INCLUDING BUT NOT LIMITED TO ORGANIC MATERIALS, PEAT, CLAY, OR PREVIOUSLY DISTURBED SOILS) WITHIN THE LIMITS OF THE FOUNDATION EXCAVATION, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE MATERIALS TO THE LIMITS DIRECTED BY THE RESIDENT. ALTERNATIVELY, THE DEPARTMENT HAS THE RIGHT TO RELOCATE THE PROPOSED FOUNDATION TO AVOID THE UNSUITABLE SOILS.

TRAFFIC CONTROL:

1. ALL TRAFFIC CONTROL EQUIPMENT, DEVICES, AND TEMPORARY TRAFFIC CONTROLS SHALL CONFORM TO THE 2009 EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CHAPTER 6 AND THE 2014 EDITION OF THE MAINEDOT STANDARD DETAILS. SPECIFIC TEMPORARY TRAFFIC CONTROLS FOR USE ALONG I-95 (MAINE TURNPIKE) AND I-295 ARE PROVIDED IN THE PLANS FOR USE BY THE CONTRACTOR.
2. ALL TEMPORARY TRAFFIC CONTROL SIGNS, SIGN SUPPORT STRUCTURES, CHANNELIZING DEVICES, FLASHING ARROW PANELS (FAP), PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AND OTHER TRAFFIC CONTROL EQUIPMENT ALONG THE ROADSIDE SHALL MEET OR EXCEED NCHRP 350 TEST LEVEL 3 (TL-3) REQUIREMENTS.
3. ALL TEMPORARY TRAFFIC CONTROL SIGNS SHALL HAVE ASTM D4956 TYPE VII, TYPE VIII, OR TYPE IX SUPER HIGH INTENSITY OR PRISMATIC FLUORESCENT RETROREFLECTIVE SHEETING AND SHALL BE MAINTAINED IN LIKE-NEW CONDITION. ALL ORANGE CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE WITH TYPE IX SHEETING. PLACEMENT OF CONSTRUCTION SIGNS SHALL BE ADJUSTED TO AVOID OBSTRUCTING EXISTING SIGNS AND TO ENSURE PROPER SIGHT LINES TO THE CONSTRUCTION SIGNS AS DETERMINED BY THE RESIDENT.
4. ANY SIGNS, EQUIPMENT, OR DEVICES FOUND TO BE DAMAGED OR UNSERVICEABLE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ALL SHOULDER AND LANE CLOSURES SHALL REQUIRE APPROVAL OF THE RESIDENT A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF THE LANE CLOSURE.
6. APPROACH ENDS OF TEMPORARY CONCRETE BARRIER SHALL BE PROTECTED BY TEMPORARY IMPACT ATTENUATORS OR WITH GUARDRAIL OVERLAPS AS APPROVED BY THE RESIDENT.
7. THE CONTRACTOR SHALL SUBMIT A LIGHTING PLAN FOR NIGHT WORK FOR APPROVAL.
8. ALL LANE CLOSURES SHALL REQUIRE A TRUCK MOUNTED ATTENUATOR (TMA). SHOULDER CLOSURES ALONG THE TURNPIKE SHALL INCLUDE A TMA. SHOULDER CLOSURES ALONG I-295 MAY INCLUDE A TMA IF INCLUDED IN THE CONTRACTOR'S APPROVED TCP.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2376(704)

WIN
23767.04

ITS PLANS

PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS

GENERAL NOTES

SHEET NUMBER

2

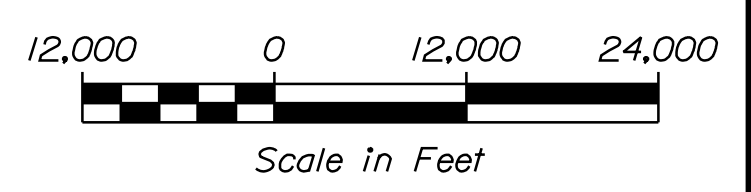
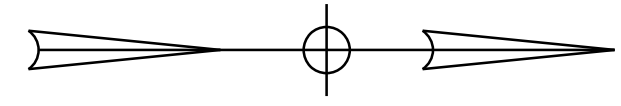
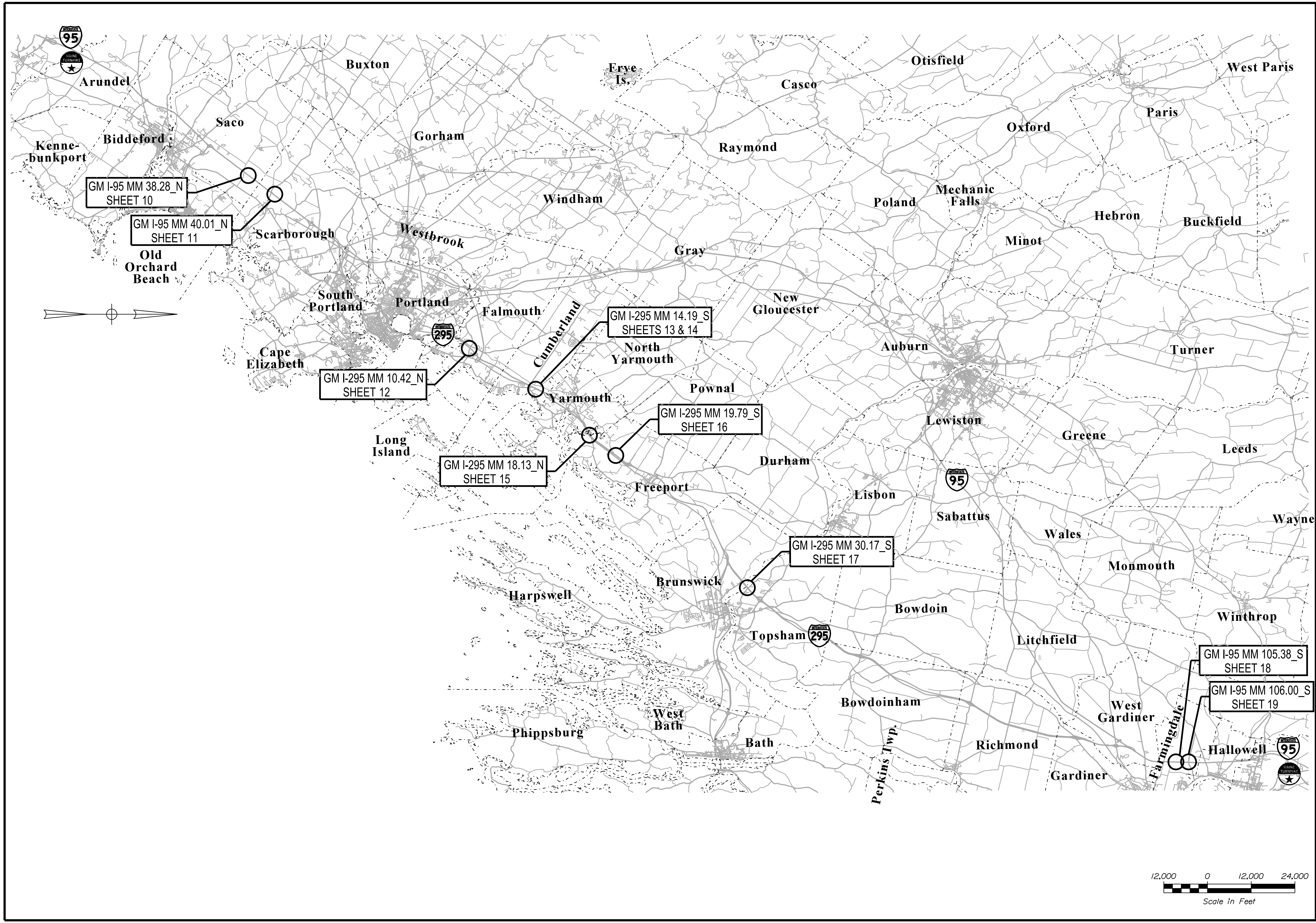
OF 19

Date: 5/2/2018

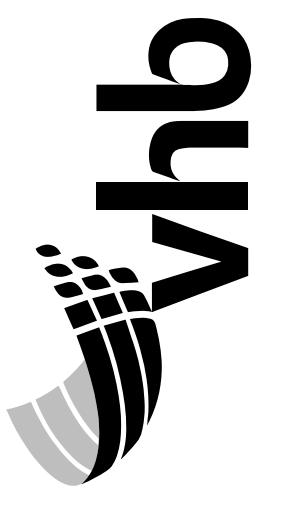
Username: jrobert

Division: HIGHWAY

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 2376(704)
WIN 23767.04
ITS PLANS



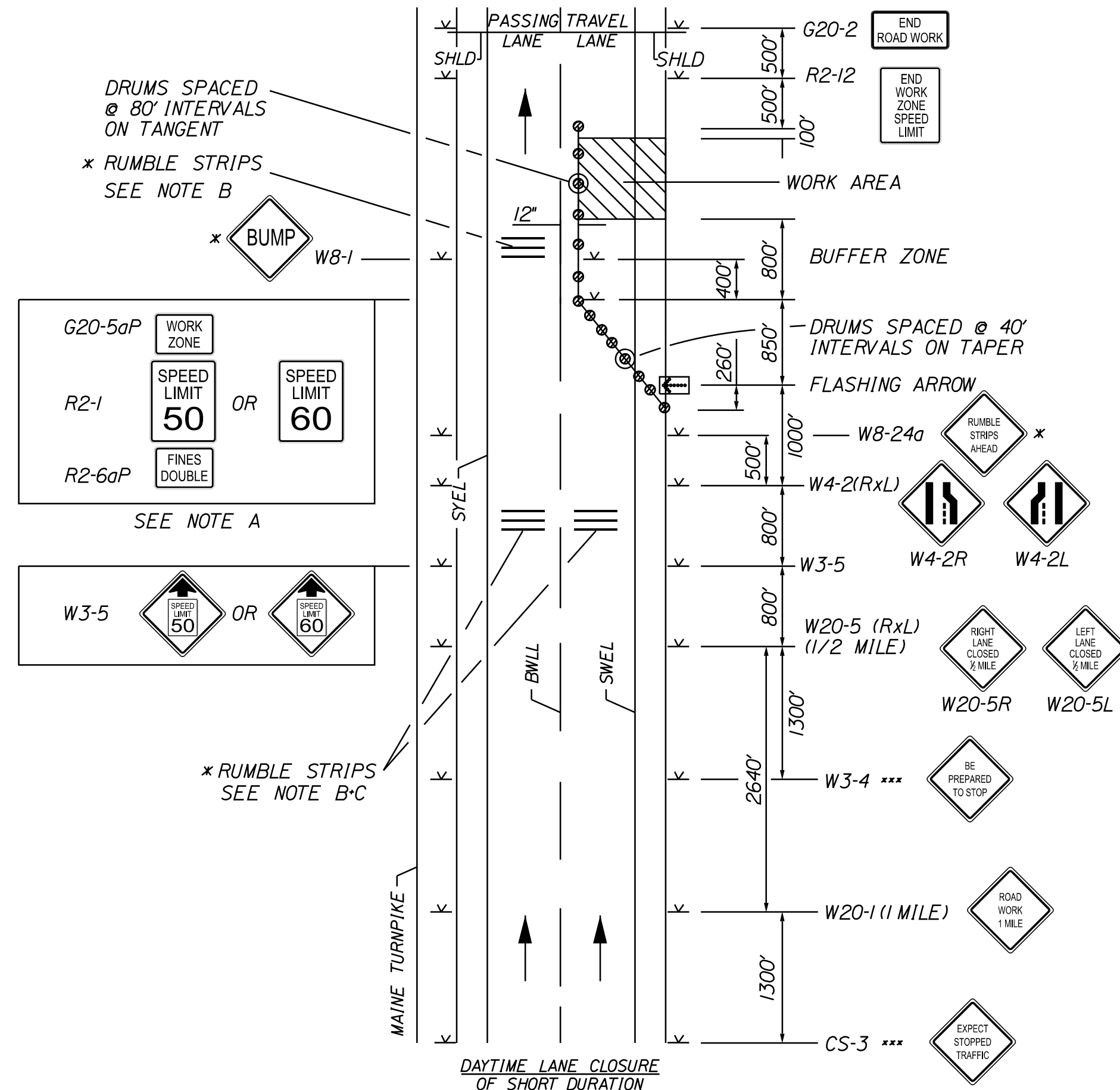
PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
MAP

SHEET NUMBER

3

OF 19



**SINGLE LANE CLOSURE
SIGNS ON EASELS**

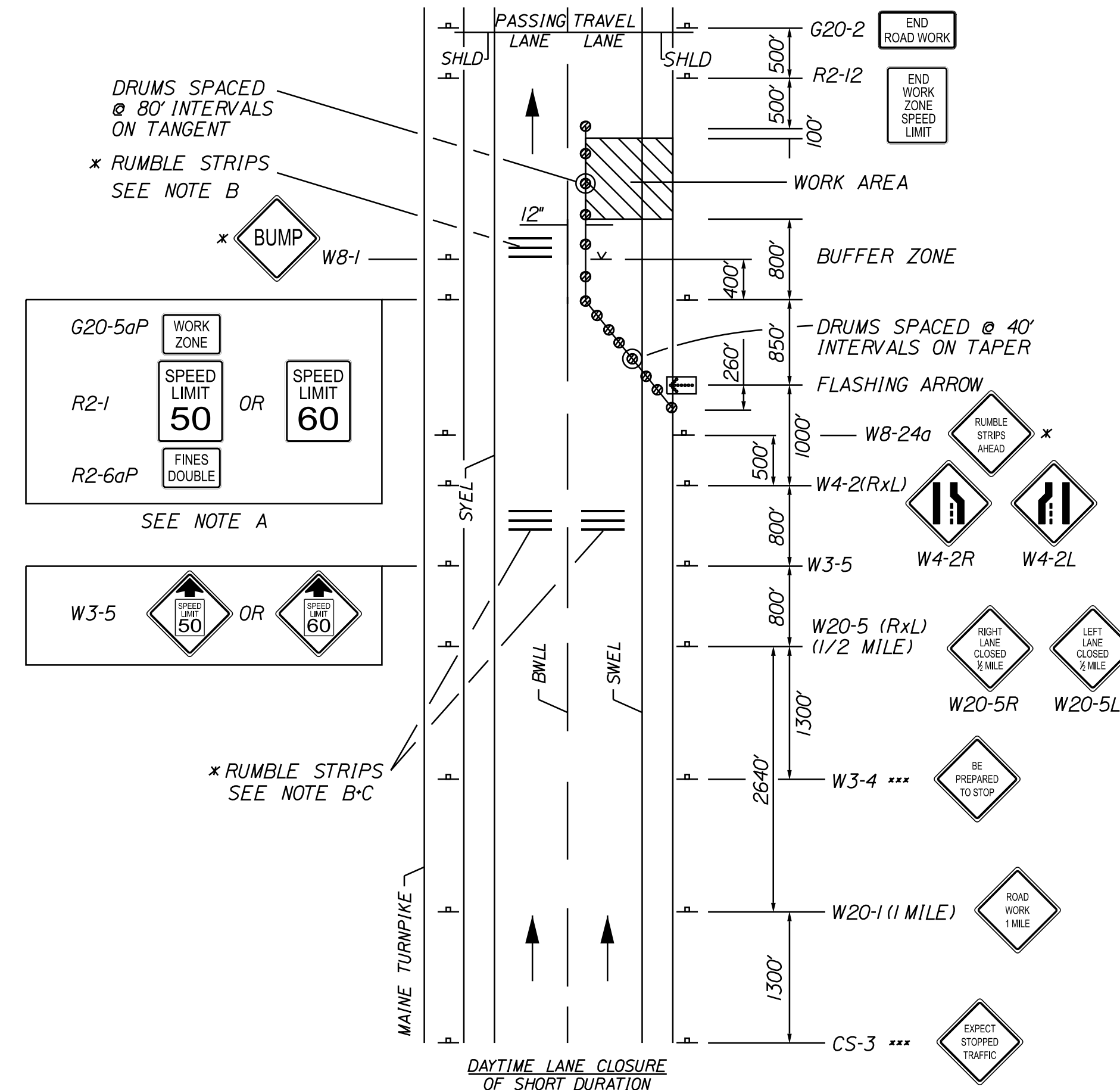
Note A. For easel set up only, this sign is not bracketed. One sign assembly is placed at the end of the taper. Signs may be split onto two easels.

Note B. If rumble strips are used they shall be placed in one of the following configurations:

- Adjacent to the work zone (1 Unit)
- Upstream from the taper for the workzone (2 Units)
- Both adjacent to the workzone and prior to the taper (3 Units)

W8-1 signs shall be placed adjacent to the first rumble strip at any location. Only one set of W8-24a signs are required for any of the above configurations.

Note C. Rumble strips may be placed upstream of the taper between the W3-5 signs and the W4-2 signs. If rumble strips are installed prior to taper, W8-1 signs shall be placed adjacent to the first strip and the W8-24a signs shall be moved to 400' after the W20-5 signs.



**SINGLE LANE CLOSURE
POST MOUNTED SIGN SETUP**

Note A. Post mounted signs shall be covered when lane closure is removed. Only sign adjacent to open lane needs to be uncovered.

Note B. If rumble strips are used they shall be placed in one of the following configurations:

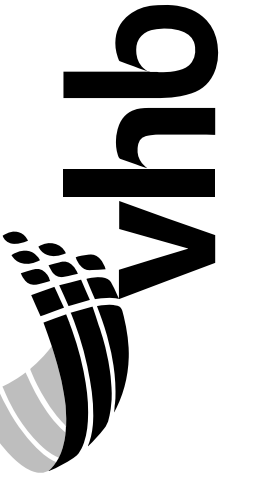
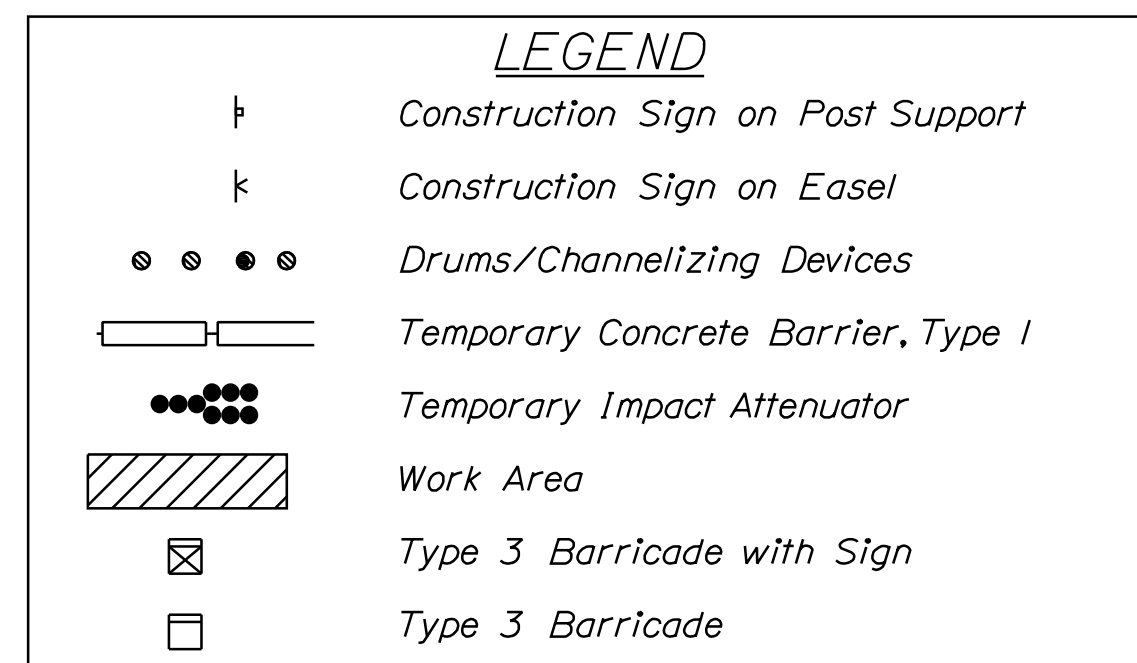
- Adjacent to the work zone (1 Unit)
- Upstream from the taper for the workzone (2 Units)
- Both adjacent to the workzone and prior to the taper (3 Units)

W8-1 signs shall be placed adjacent to the first rumble strip at any location. Only one set of W8-24a signs are required for any of the above configurations.

Note C. Rumble strips may be placed upstream of the taper between the W3-5 signs and the W4-2 signs. If rumble strips are installed prior to taper, W8-1 signs shall be placed adjacent to the first strip and the W8-24a signs shall be moved to 400' after the W20-5 signs.

GENERAL NOTES FOR WORK ALONG I-95

1. For sign details, see construction sign summary.
2. Signs designated with *** shall be used during stoppages of traffic.
3. When truck mounted attenuators are included in the contract (incidental or pay item), they shall not be located in the buffer zone.
4. Where the posted speed limit is 70MPH, the traffic control shall use 60MPH. Where the posted speed limit is 65MPH or less the traffic control shall use 50MPH.
5. Workzone speed limit assembly may be replaced with an automated workzone speed limit sign (Item 652.451)
6. Barrier shall be placed 1 foot off the yellow line.
7. Barrier shall extend to 25 feet past the break in the guardrail
8. Barrier shall not be removed until foundation, barrier transition and guardrail end is in place prior to final paving.

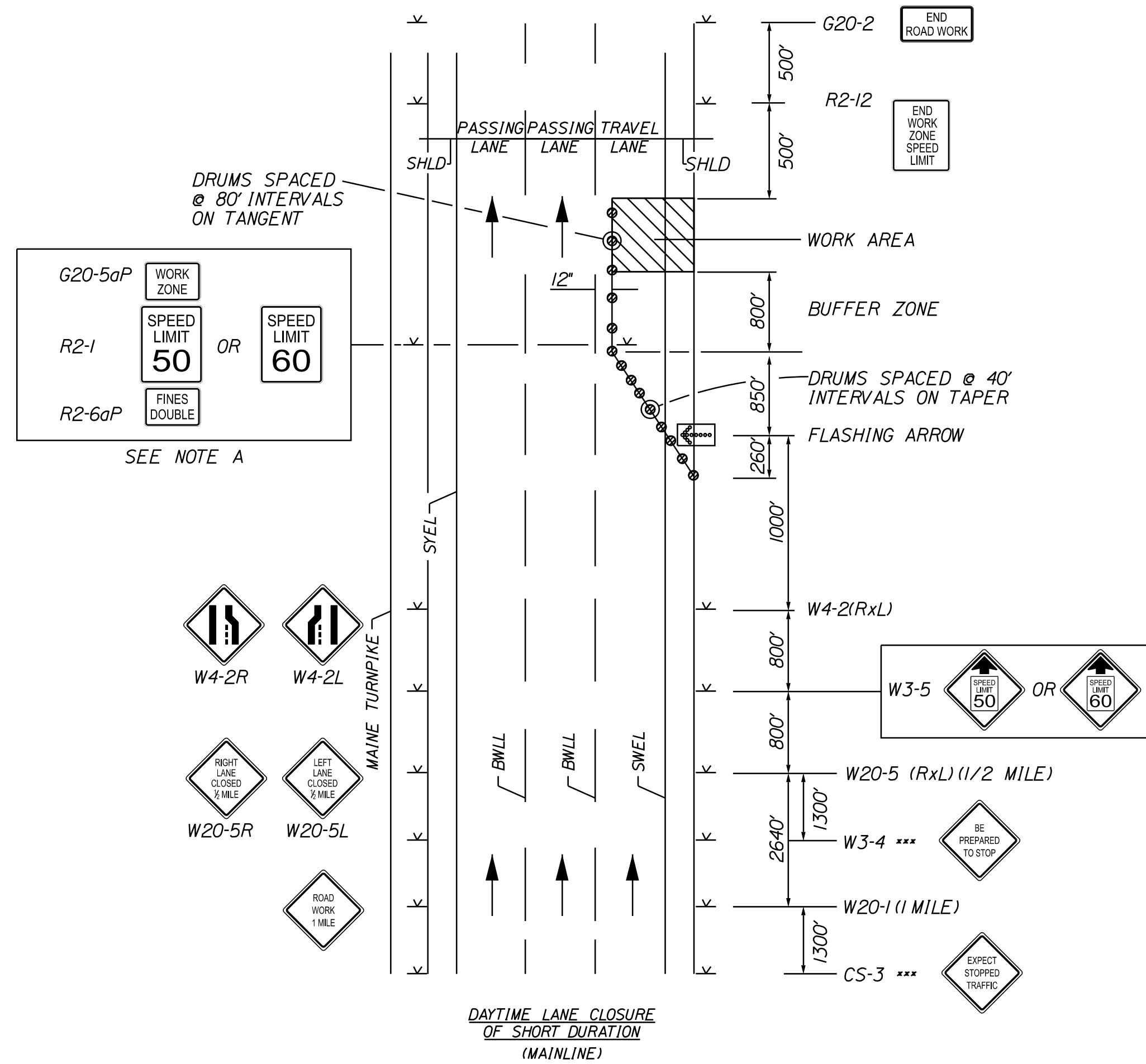


PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

**ITS
TRAVEL TIME SIGNS
TRAFFIC CONTROL PLANS
(1 OF 2)**

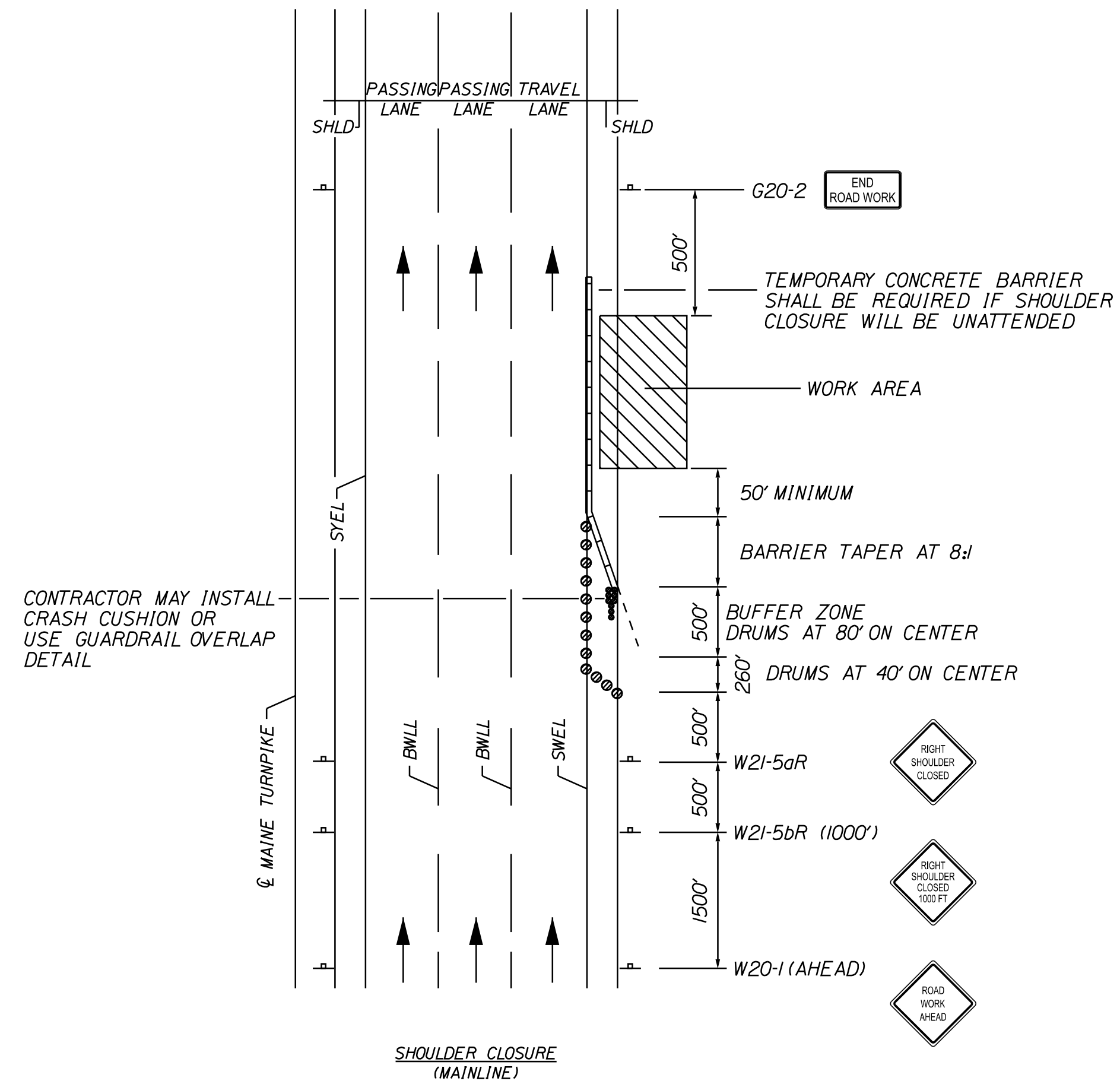
SHEET NUMBER

4



**SINGLE LANE CLOSURE
SIGNS ON EASELS**

Note A. For easel set up only, this sign is not bracketed. One sign assembly is placed at the end of the taper. Signs may be split onto two easels.



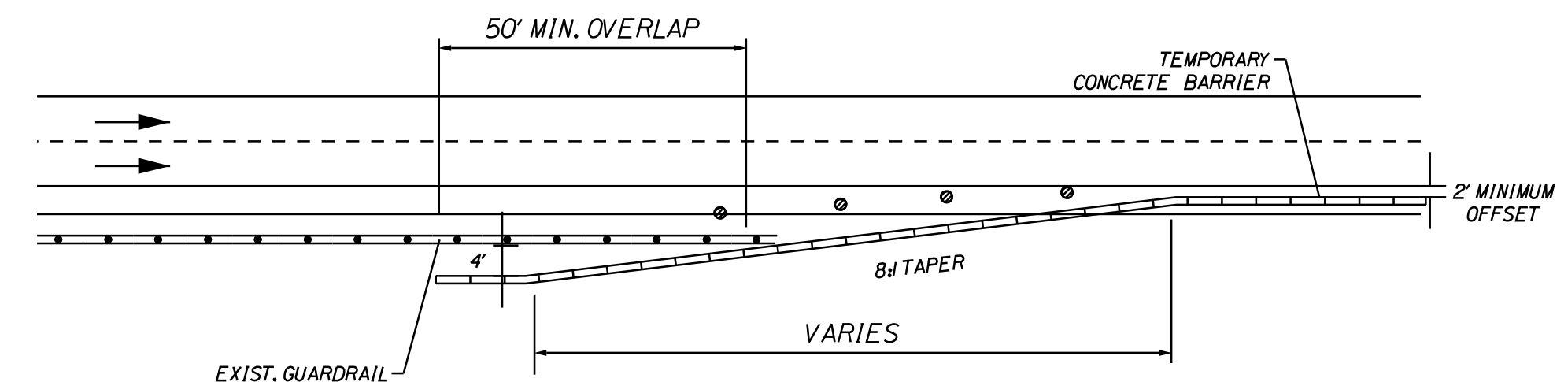
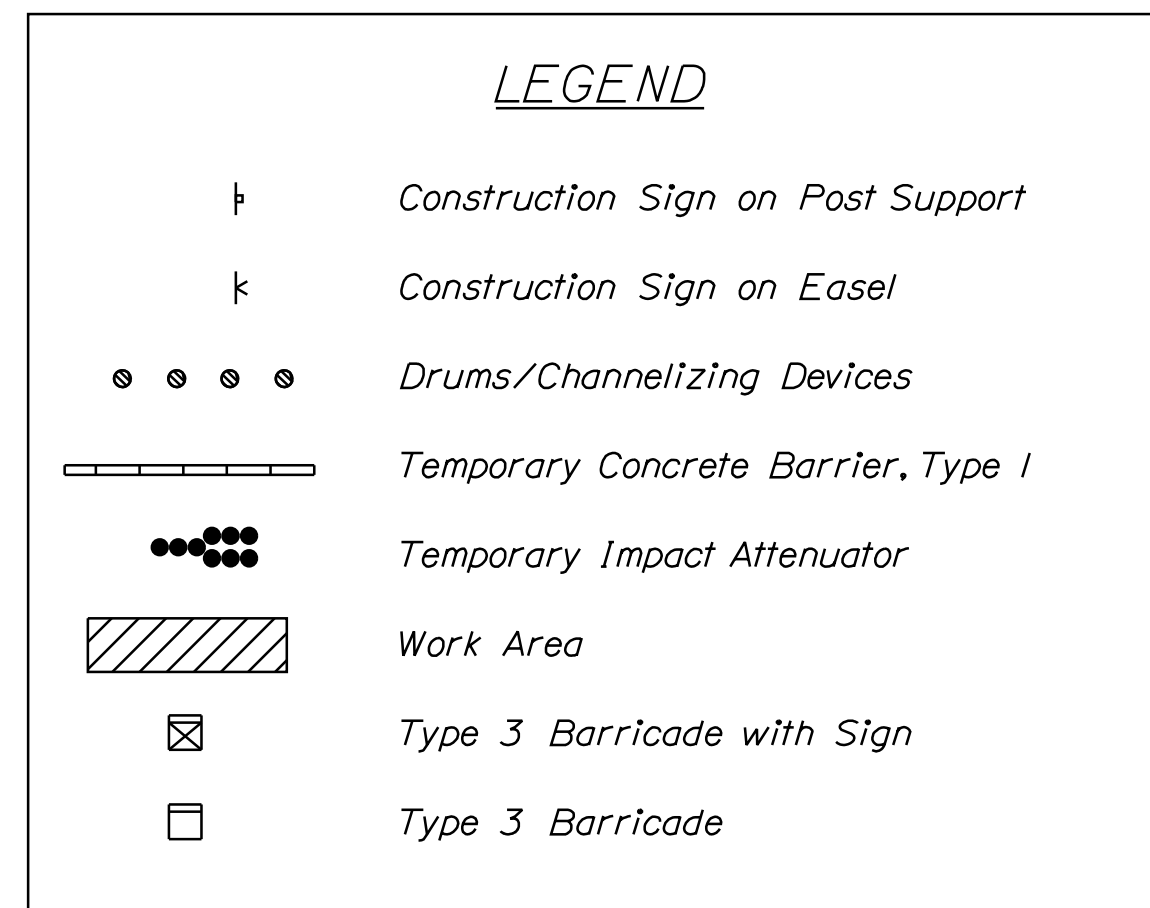
**SHOULDER CLOSURE
(MAINLINE)**

Note A. The W20-1 and G20-2 signs are not required if the shoulder closure is within a previously established work zone.

Note B. Shoulder closure detail is valid for 2-lane and 3-lane segments.

GENERAL NOTES FOR WORK ALONG I-95

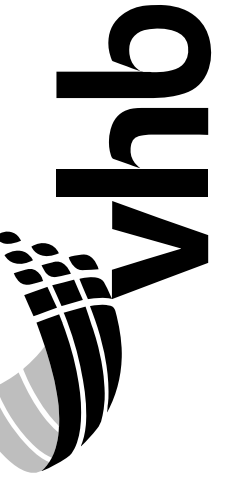
- For sign details, see construction sign summary.
- Signs designated with *** shall be used during stoppages of traffic.
- When truck mounted attenuators are included in the contract (incidental or pay item), they shall not be located in the buffer zone.
- Where the posted speed limit is 70MPH, the traffic control shall use 60MPH. Where the posted speed limit is 65MPH or less the traffic control shall use 50MPH.



CONCRETE BARRIER / GUARDRAIL OVERLAP DETAIL

NOTES

- Barrier ends within the highway clear zone shall be protected by a temporary impact attenuator or lapped behind guardrail.
- If a temporary work zone crash cushion is used, the work zone crash cushion system must be founded on a level surface. Any work necessary to provide a level surface will be incidental to the work zone crash cushion item.



PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SUENNEN	04/18
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
TRAFFIC CONTROL PLANS
(2 OF 2)

SHEET NUMBER

5

LOCATION ID	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	POST
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE.MKR.		BACK-GROUND	LEGEND BORDER			
GM 1-95 MM 38.28_N	180"	186"		13.3/10 EM 10/7.5, 15 E 10/7.5 E	10" 10" 13"	30" x 24" 24" x 24" 24" x 24"	1	GREEN	WHITE	12"	232.50 (232.50)	MOUNT ON 2 - W14X30 BREAKAWAY H-BEAMS WITH 2 - 136" x 23" CUT-OUTS
GM 1-95 MM 40.01_N	168"	210"		13.3/10 EM 10 E 10/7.5, 15 E 10/7.5, 15 E	16.6" 9" 11.1" 16"	30" x 24"	1	GREEN	WHITE	12"	245.00 (245.00)	MOUNT ON 2 - W14X30 BREAKAWAY H-BEAMS WITH 2 - 136" x 23" CUT-OUTS
GM 1-295 MM 10.42_N	204"	228"		13.3/10 EM, 10, 15 E 15, 10 E 13.3/10 EM, 10, 15 E 15, 10 E 13.3/10 EM, 10, 15 E 15, 10 E	14.5" 12" 8.9" 13.5" 12" 8.9" 13.5" 12" 13.4"	1	GREEN	WHITE	12"	323.00 (323.00)	MOUNT ON 3 - W12X26 H-BEAMS WITH 3 - 42" x 24" CUT-OUTS	
GM 1-295 MM 14.19_S	180"	222"		13.3/10 EM 10, 15 E 10/7.5 E 10/7.5, 15 E	13" 14" 16.5" 21.7"	24" x 24" 24" x 24" 30" x 24" 24" x 24" 24" x 24"	1	GREEN	WHITE	12"	277.50 (277.50)	MOUNT ON 2 - W14X30 BREAKAWAY H-BEAMS WITH 2 - 136" x 23" CUT-OUTS
GM 1-295 MM 18.13_N	210"	228"		13.3/10 EM, 10, 15 E 15, 10 E 13.3/10 EM, 10, 15 E 15, 10 E 13.3/10 EM, 10, 15 E 15, 10 E	11.9" 12" 8.9" 13.5" 12" 8.9" 13.5" 12" 14.3"	1	GREEN	WHITE	12"	332.50 (332.50)	MOUNT ON 3 - W14X30 H-BEAMS WITH 3 - 42" x 24" CUT-OUTS	
GM 1-295 MM 19.79_S	204"	234"		13.3/10 EM, 10, 15 E 15, 10 E 10, 15 E 15, 10 E 13.3/10 EM, 10, 15 E 15, 10 E	14.2" 12" 8.9" 13.5" 20.8" 8.9" 13.6" 12" 13.3"	1	GREEN	WHITE	12"	331.50 (331.50)	MOUNT ON 3 - W14X30 H-BEAMS WITH 3 - 42" x 24" CUT-OUTS	
GM 1-295 MM 30.17_S	198"	234"		13.3/10 EM, 10, 15 E 15, 10 E 13.3/10 EM, 10, 15 E 15, 10 E 10, 15 E 15, 10 E	14.2" 12" 8.9" 13.5" 12" 8.9" 13.5" 16.6" 13.4"	1	GREEN	WHITE	12"	321.75 (321.75)	MOUNT ON 3 - W12X26 BREAKAWAY H-BEAMS WITH 3 - 42" x 24" CUT-OUTS	
GM 1-95 MM 105.38_S	174"	114"		13.3/10 E 15, 12 E 13.3/10 E 8 E	10" 10" 10" 8.4"	24" x 24" 24" x 24"	1	GREEN	WHITE	12"	137.75 (137.75)	MOUNT ON 2 - W10X22 BREAKAWAY POSTS
GM 1-95 MM 106.00_S	180"	222"		13.3/10 EM 10, 15 E 10/7.5, 15 E 10/7.5 E	13.7" 14" 16.5" 13.1"	24" x 24" 24" x 24" 30" x 24" 24" x 24" 24" x 24"	1	GREEN	WHITE	12"	277.50 (277.50)	MOUNT ON 2 - W14X30 H-BEAMS WITH 2 - 136" x 23" CUT-OUTS

HSB - TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS BOOK" - 2012 EDITION.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2376(704)

WIN
23767.04

ITS PLANS

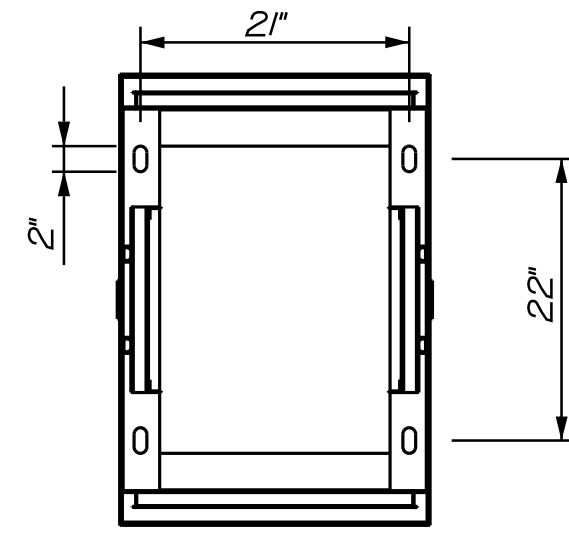
PROJ. MANAGER	S. LANDRY	BY	J. ROBERT	DATE	04/18
DESIGN DETAILED	E. DREW	CHECKED/REVIEWED	M. SUENEN		04/18
DESIGN DETAILED		DESIGN DETAILED			
REVISIONS 1		REVISIONS 2			
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

ITS
TRAVEL TIME SIGNS

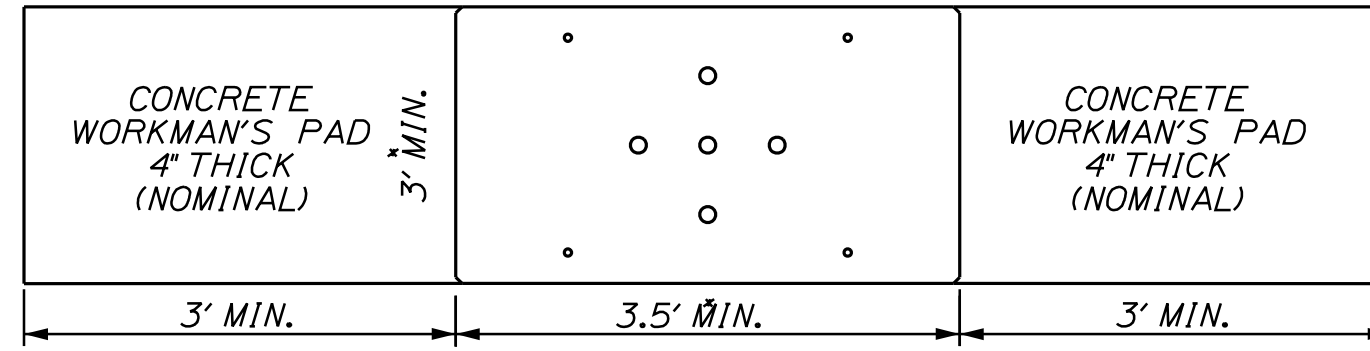
SIGN SUMMARY

SHEET NUMBER

6



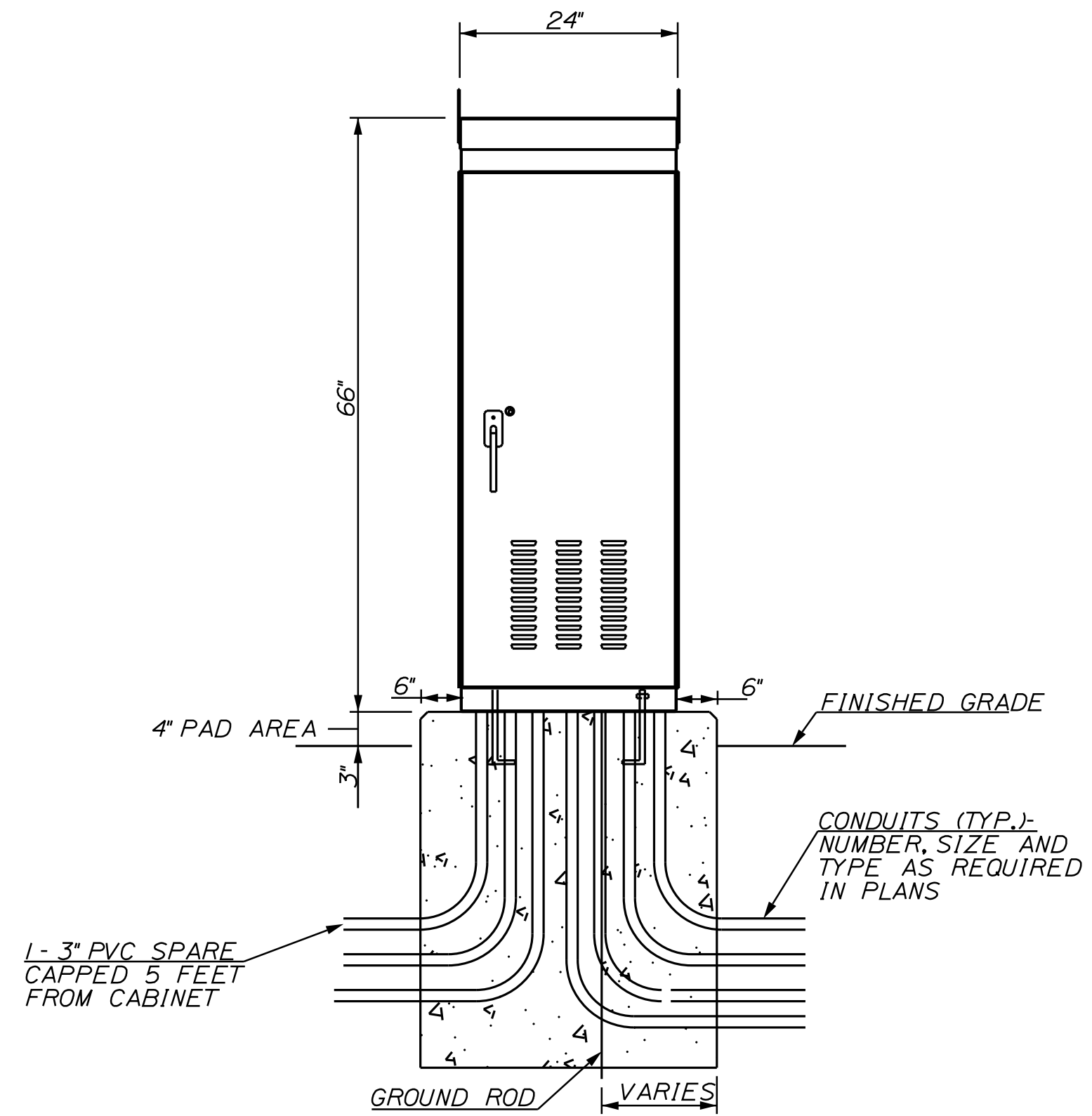
BOTTOM VIEW
(NO COMPONENTS)



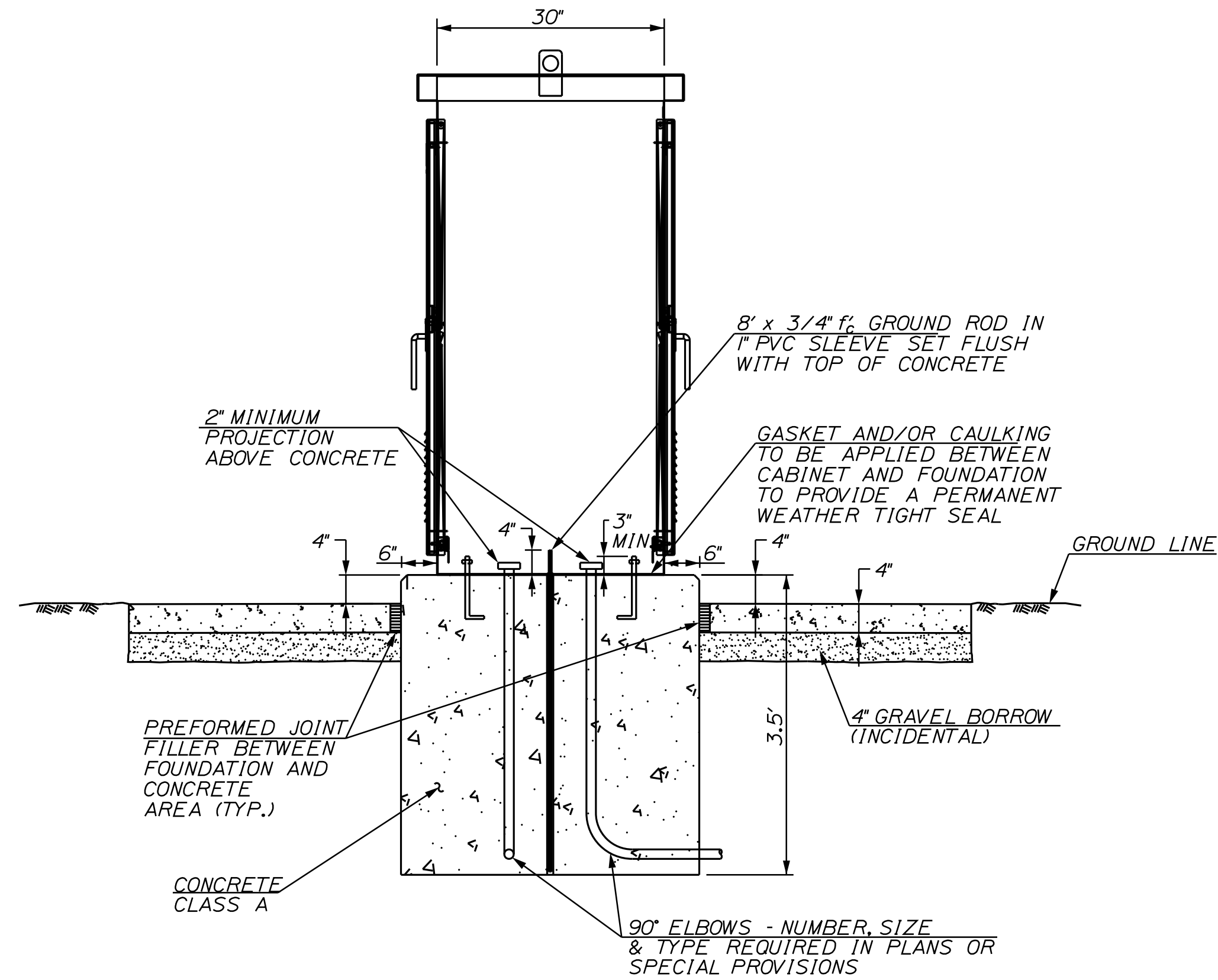
FOUNDATION SHALL BE 6" WIDER AND LONGER THAN CABINET BASE TO BE INSTALLED

FOUNDATION PLAN

BOLT SIZE, SPACING AND PROJECTION ABOVE CONCRETE PER MANUFACTURER'S TEMPLATE



FRONT & REAR VIEWS

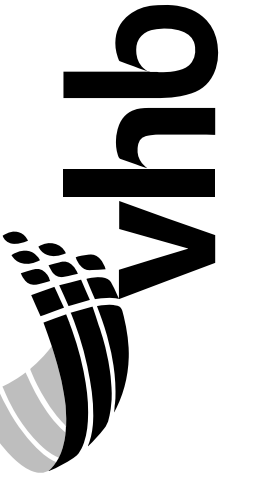


SECTION

GROUND MOUNTED ITS EQUIPMENT CABINET DETAIL
NOT TO SCALE

NOTES:

1. ALL EXPOSED EDGES OF THE FOUNDATION SHALL BE CHAMFERED 3/4".
2. WORKMAN'S PADS (AND CABINET DOORS) SHOULD BE ORIENTED AS SHOWN ON THE PLANS.
3. CONTRACTOR SHALL INSTALL A SPARE 2" PVC CONDUIT CAPPED 5 FEET FROM CABINET AT ALL GROUND MOUNTED LOCATIONS.

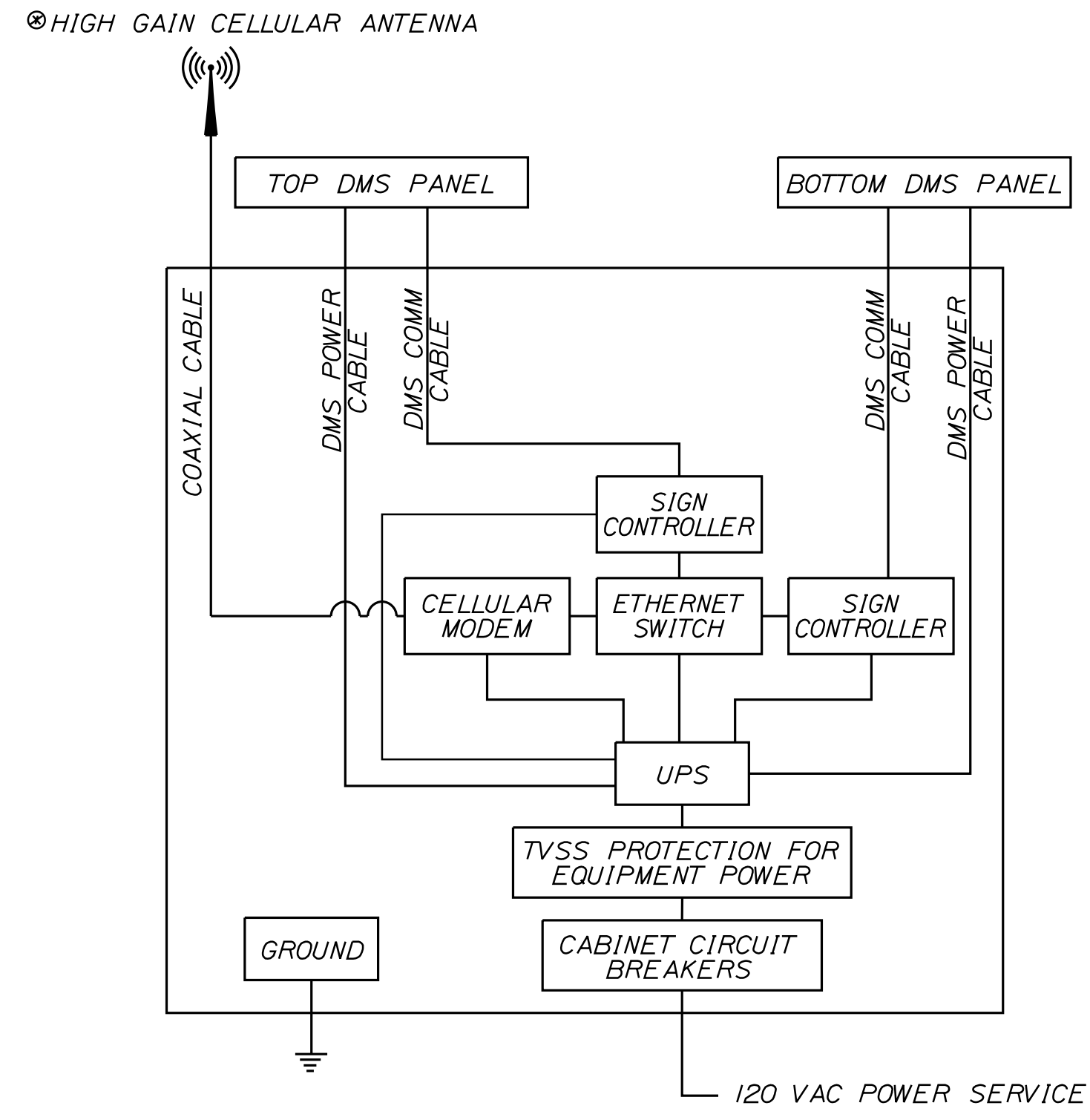


PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

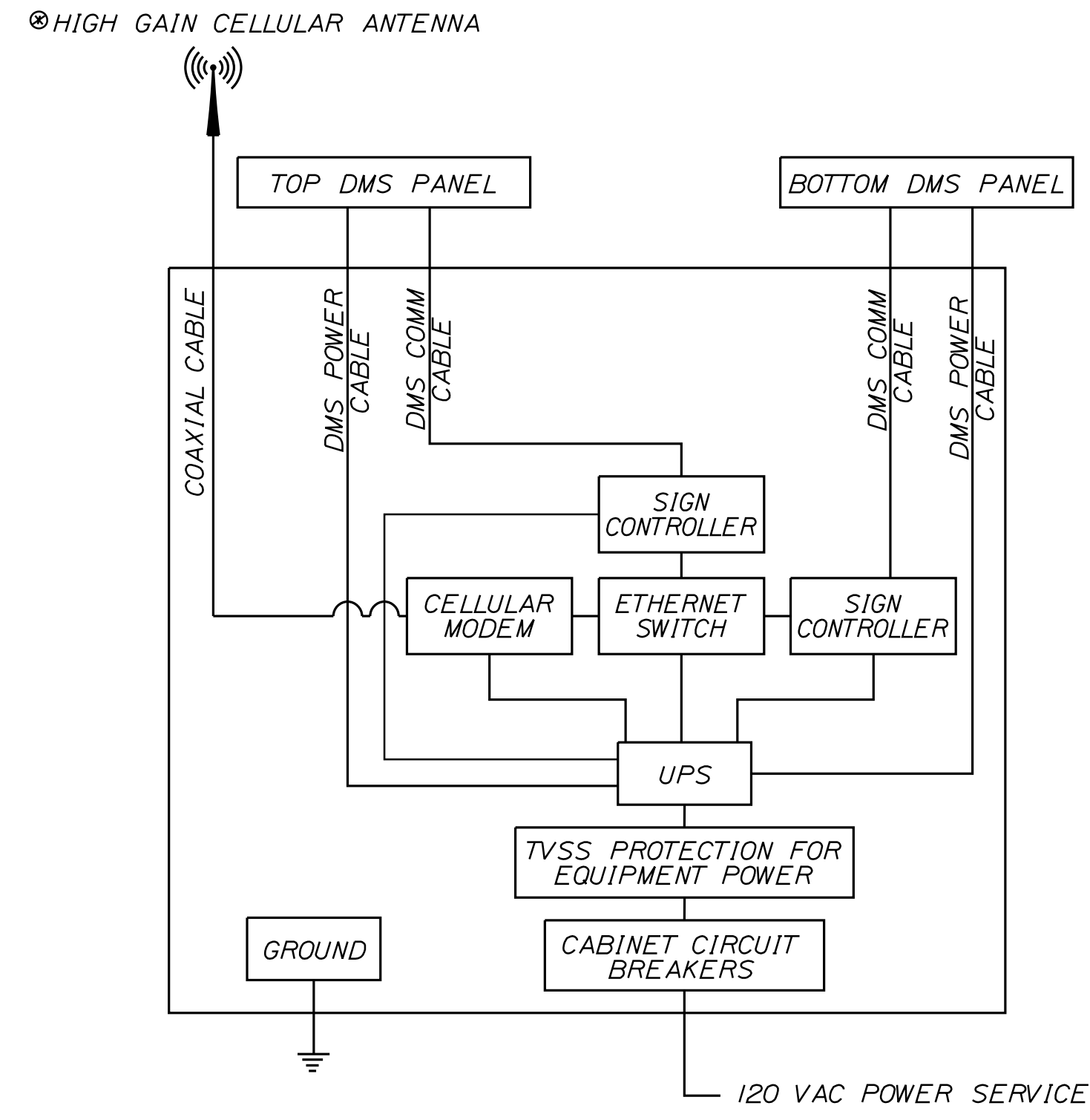
ITS TRAVEL TIME SIGNS
DETAILS

SHEET NUMBER

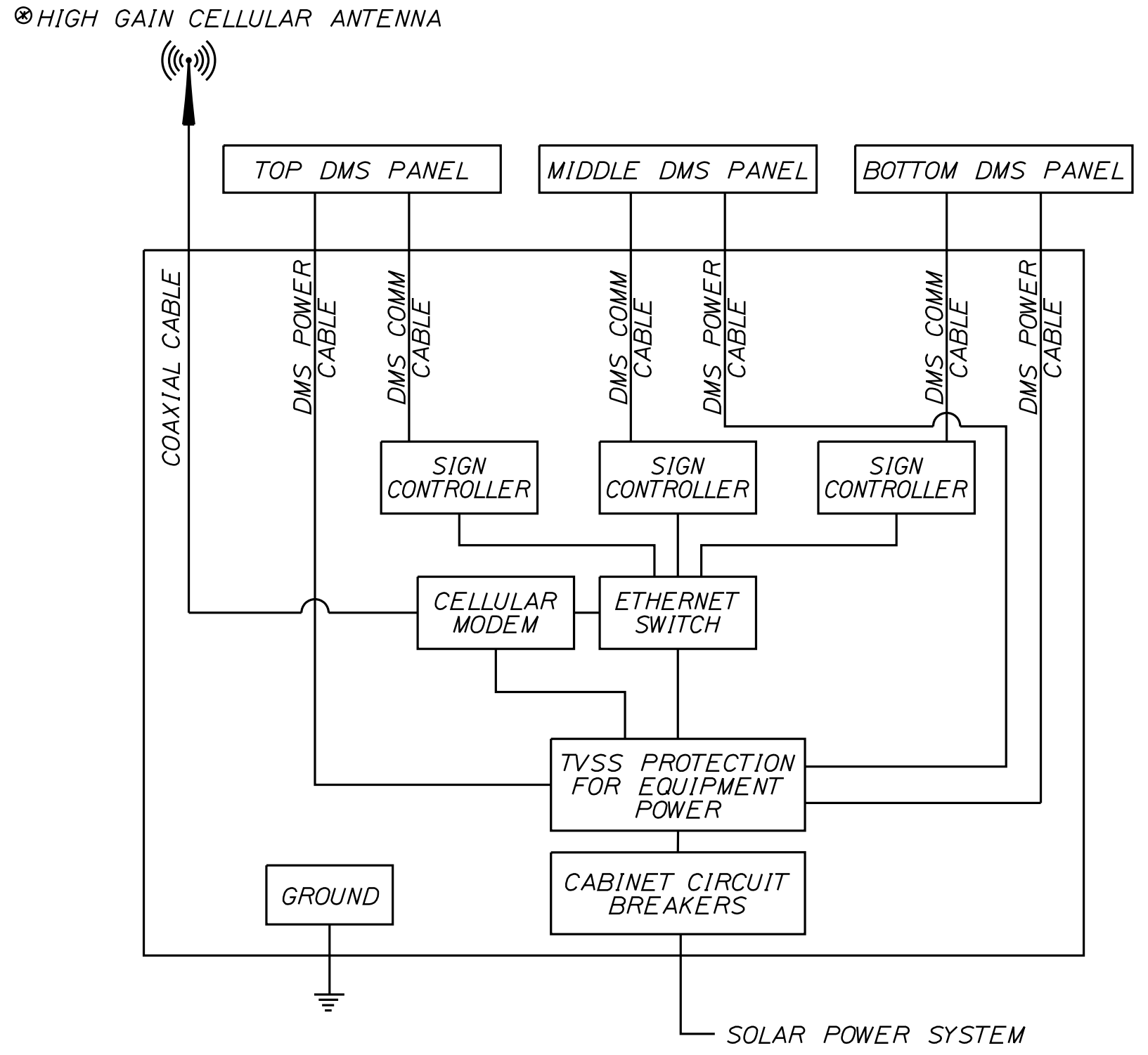
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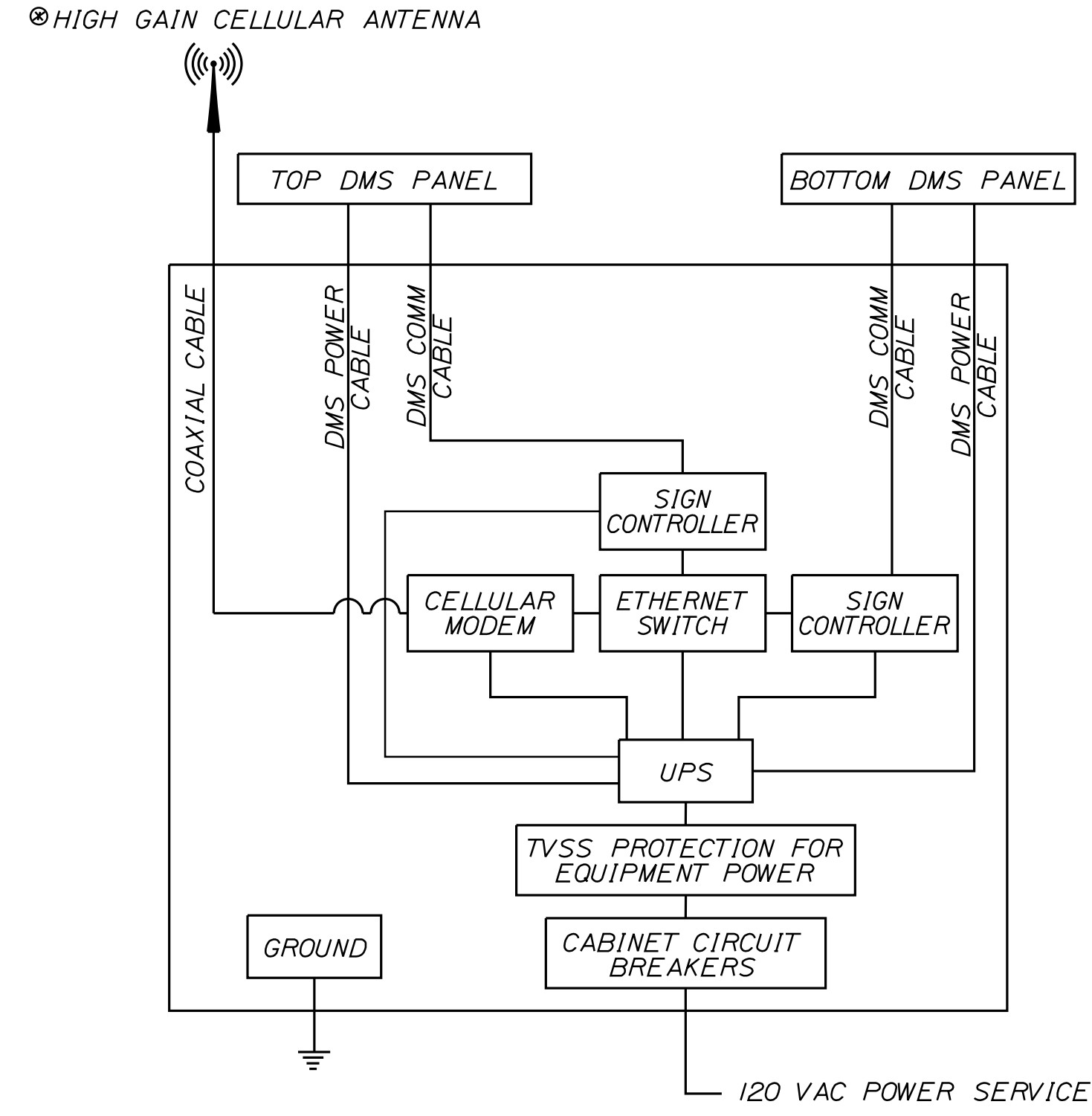
GM 1-95 MM 38.28_N
NOT TO SCALE



GM 1-95 MM 40.01_N
NOT TO SCALE



GM 1-295 MM 10.42_N
NOT TO SCALE



GM 1-295 MM 14.19_S
NOT TO SCALE

LEGEND
 DMS - DYNAMIC MESSAGE SIGN
 TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSION
 MM - MILE MARKER
 GM - GROUND MOUNTED
 UPS - UNINTERRUPTIBLE POWER SUPPLY
 ⊕ - HIGH GAIN CELLULAR ANTENNA

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NO. 2376(704)
 WIN
 23767.04
 ITS PLANS

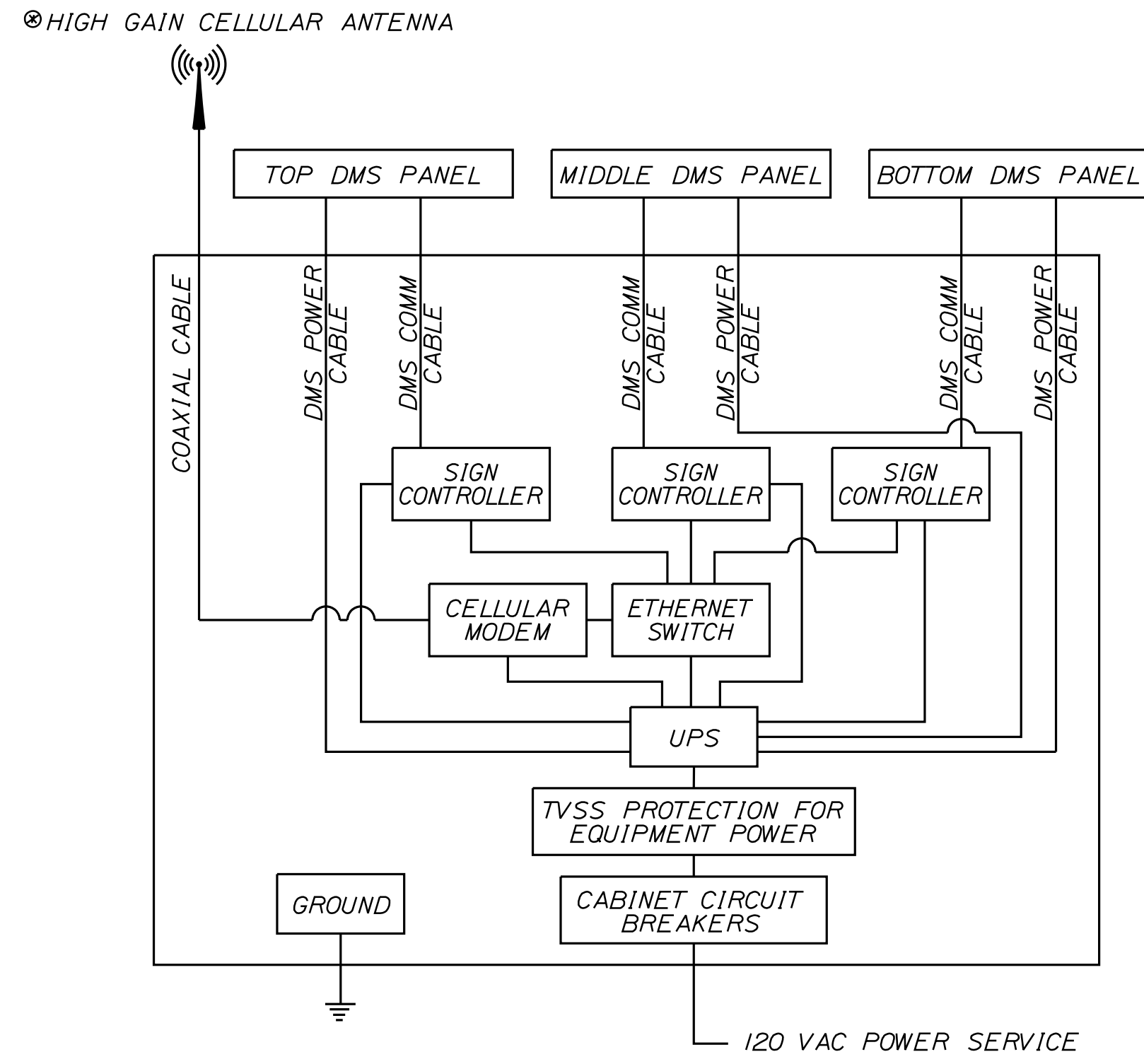


PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SUENNEN	04/18
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

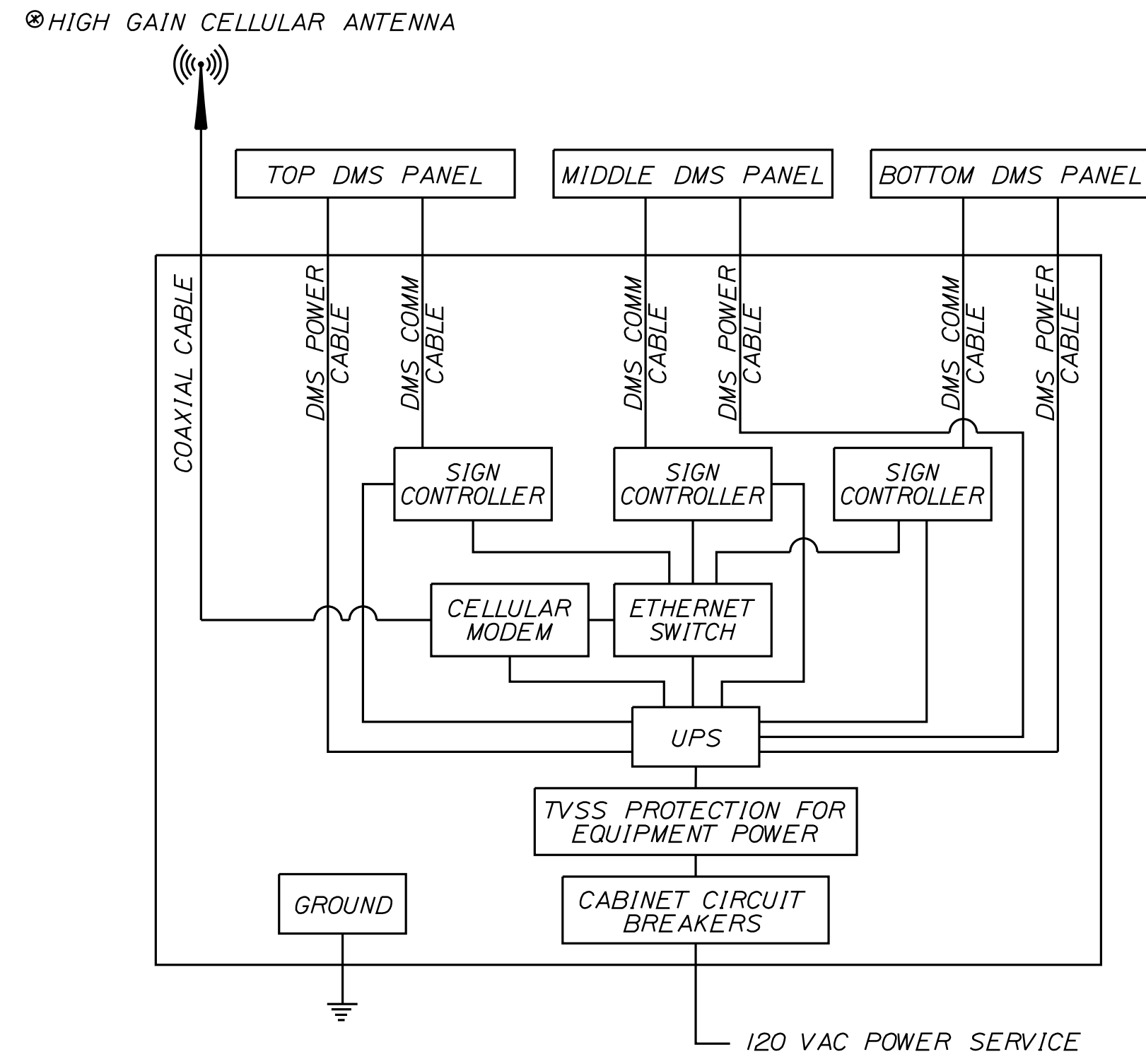
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 COMMUNICATIONS DIAGRAMS
 (1 OF 2)

SHEET NUMBER

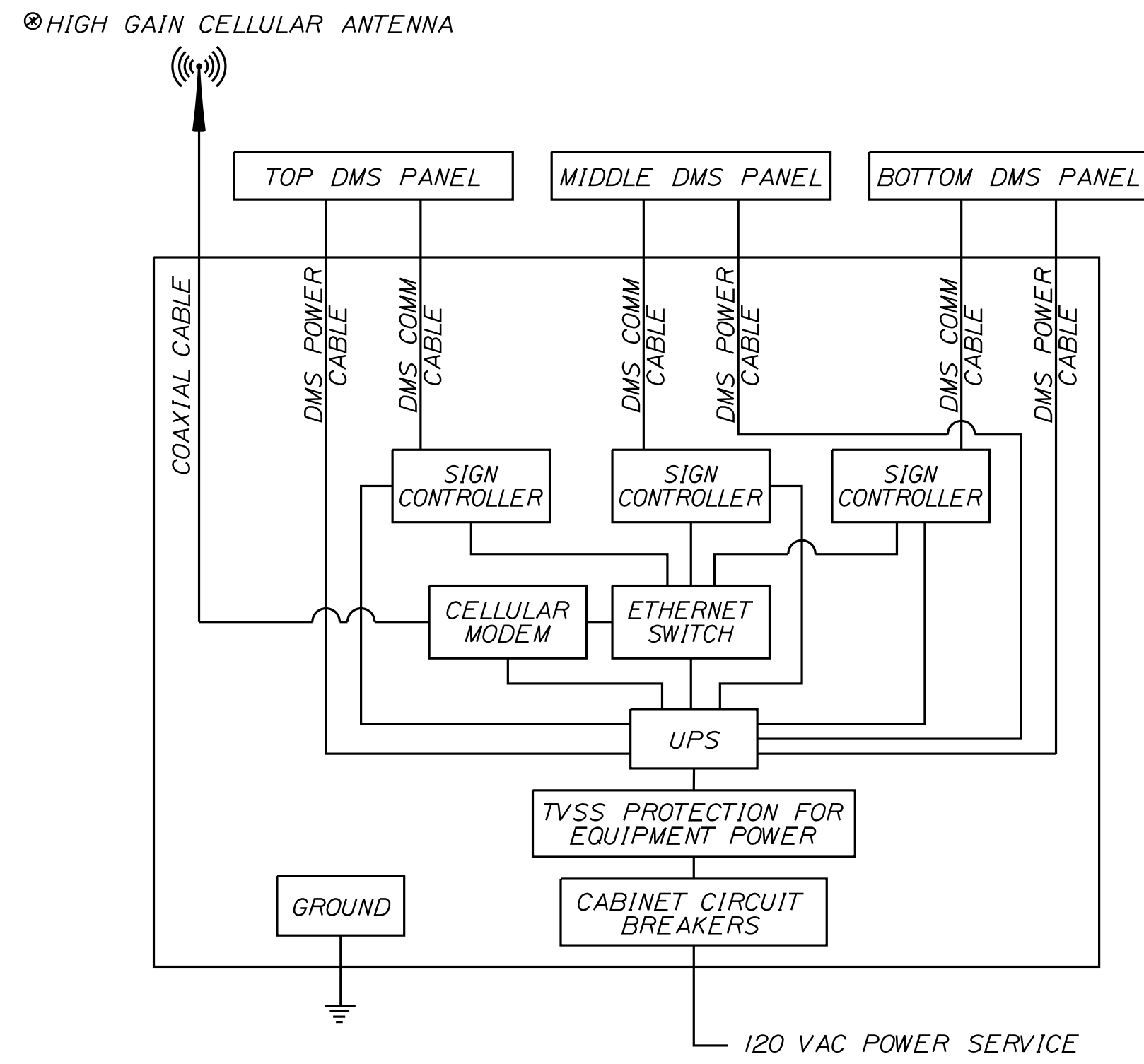
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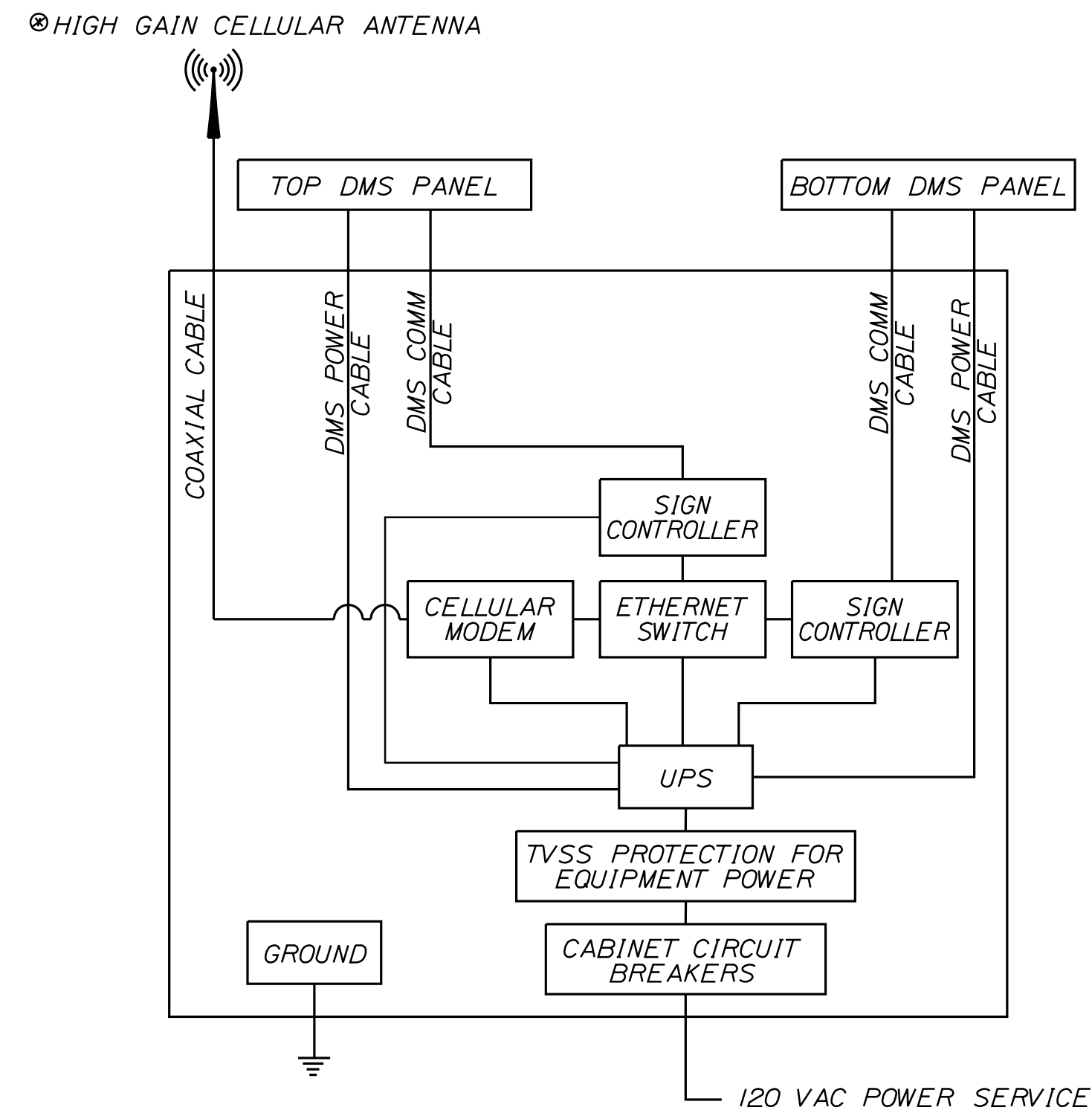
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GM 1-295 MM 19.79_S
NOT TO SCALE



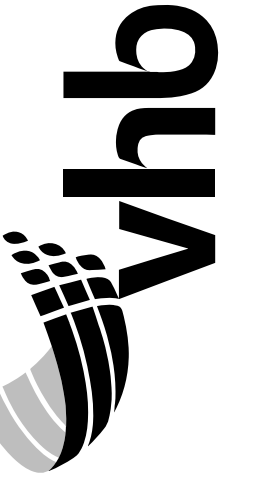
GM 1-295 MM 30.17_S
NOT TO SCALE



GM 1-95 MM 106.00_S
NOT TO SCALE

LEGEND

- DMS - DYNAMIC MESSAGE SIGN
- TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSION
- MM - MILE MARKER
- GM - GROUND MOUNTED
- UPS - UNINTERRUPTIBLE POWER SUPPLY
- Ⓢ - HIGH GAIN CELLULAR ANTENNA

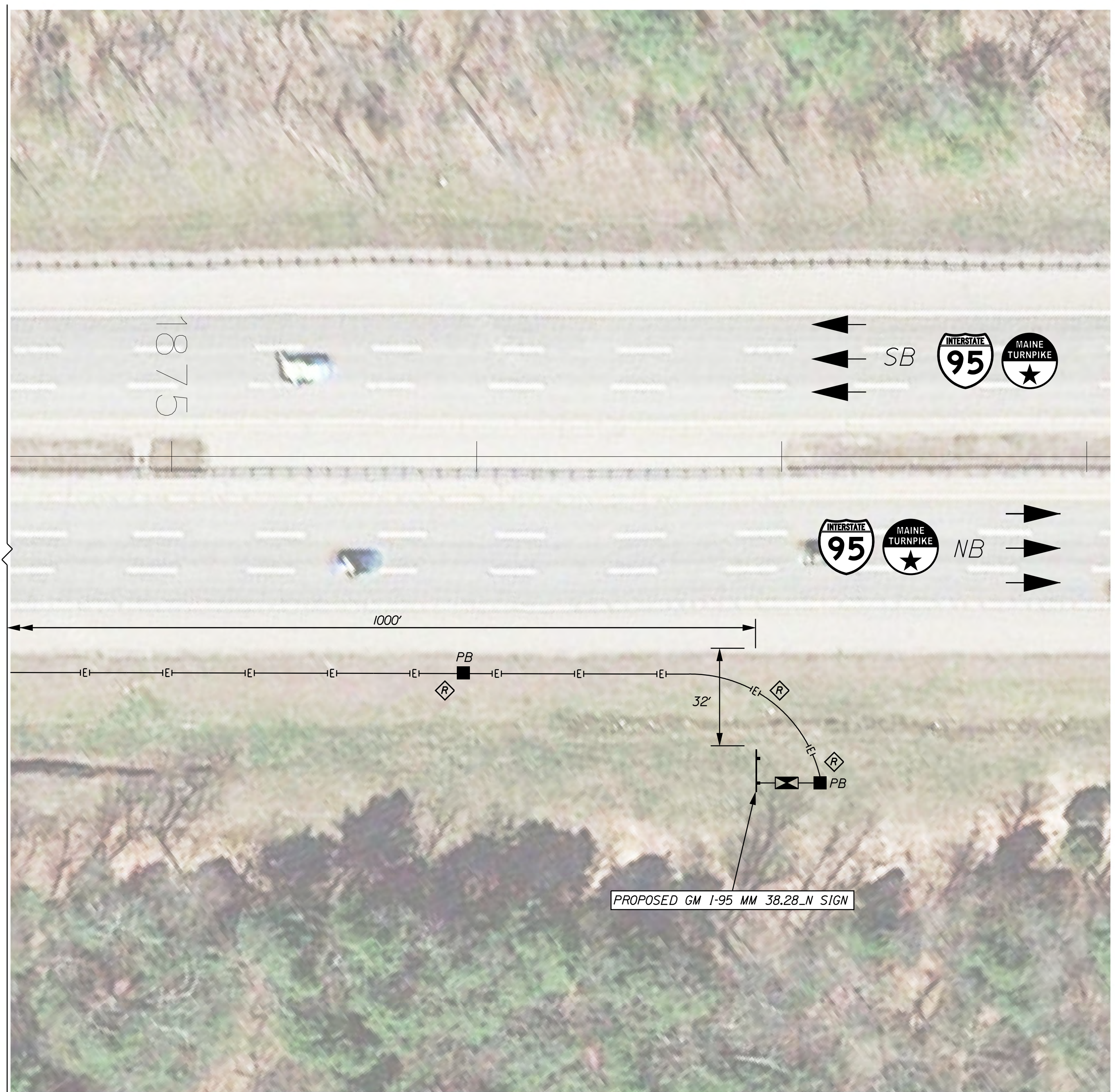


PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SUENNEN	04/18
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
COMMUNICATIONS DIAGRAMS
(2 OF 2)

SHEET NUMBER

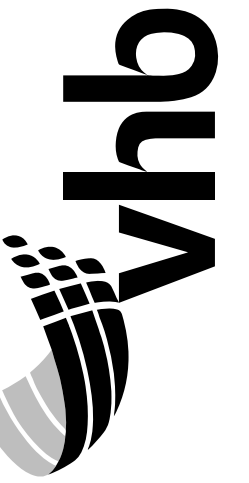
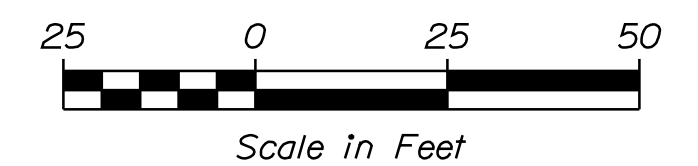
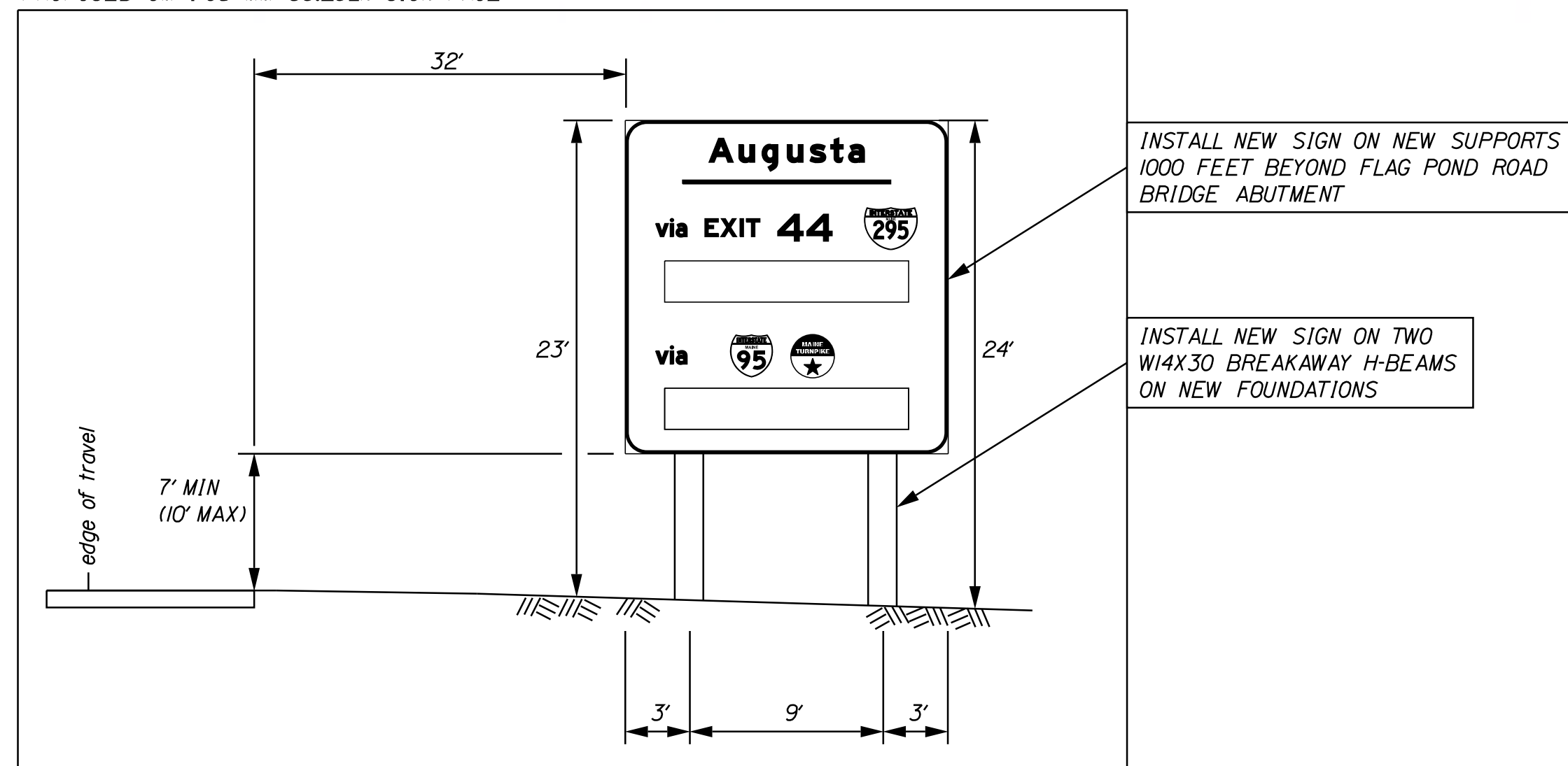
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LIST OF MAJOR ITEMS

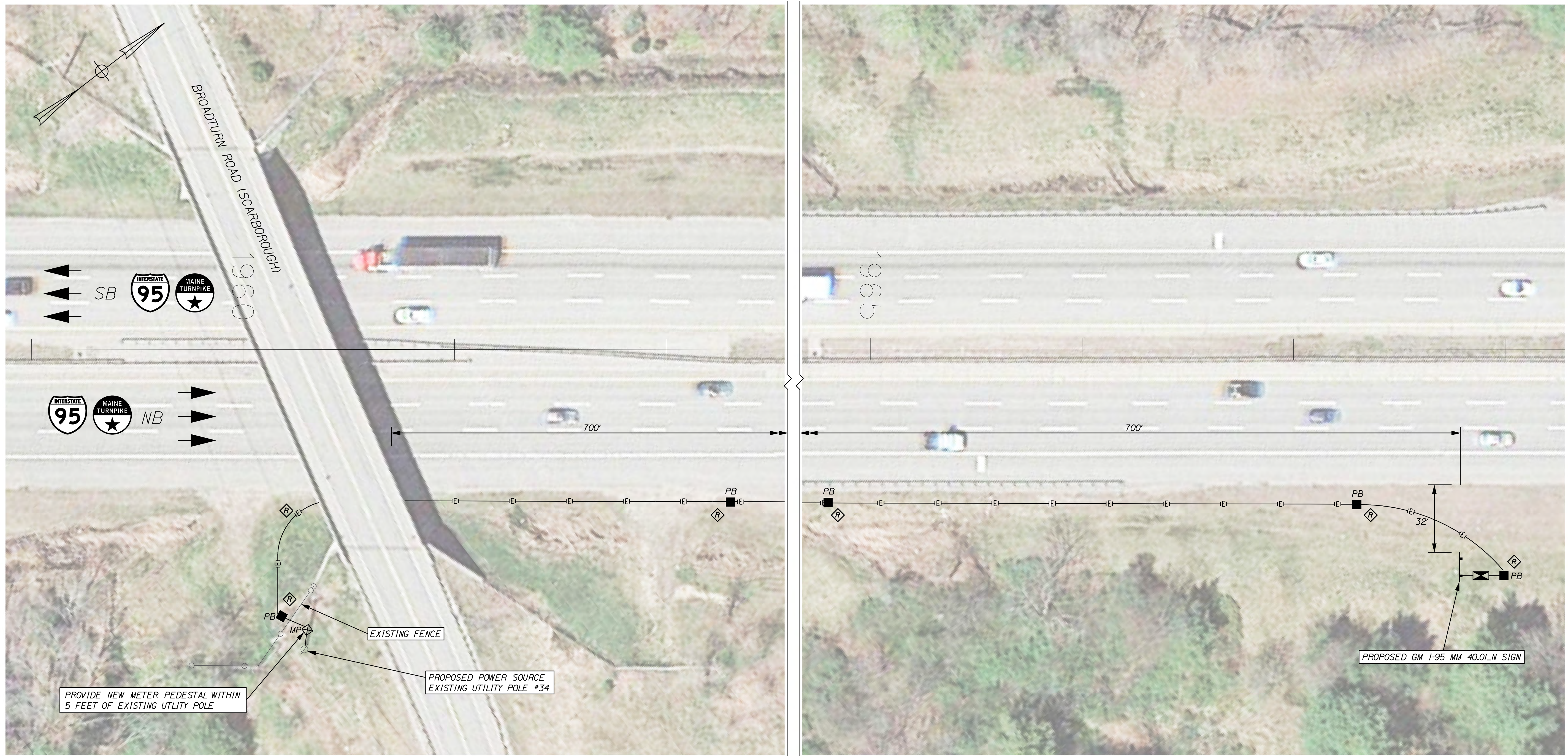
ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	6
626.21	METALLIC CONDUIT	30
626.22	NON-METALLIC CONDUIT	1180
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	7.3
645.162	BREAKAWAY DEVICE, MULTI POLE	2
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	232.50
645.289	STEEL H-BEAM POLES	1410
645.301	DEMOUNTABLE REFLECTORIZED DELINEATOR, SINGLE	9
645.52	HYBRID TRAVEL TIME SIGN: (GM I-95 MM 38.28_N)	1

PROPOSED GM I-95 MM 38.28_N SIGN FACE



PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMEN	04/18
DESIGN DETAILED			
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

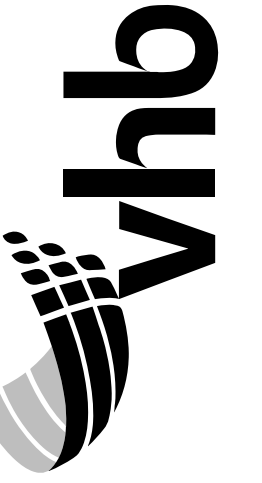
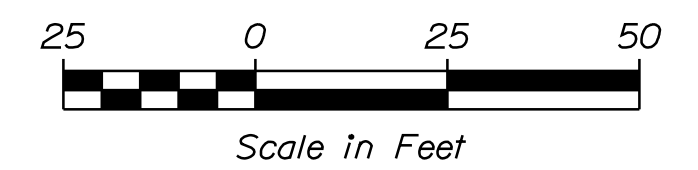
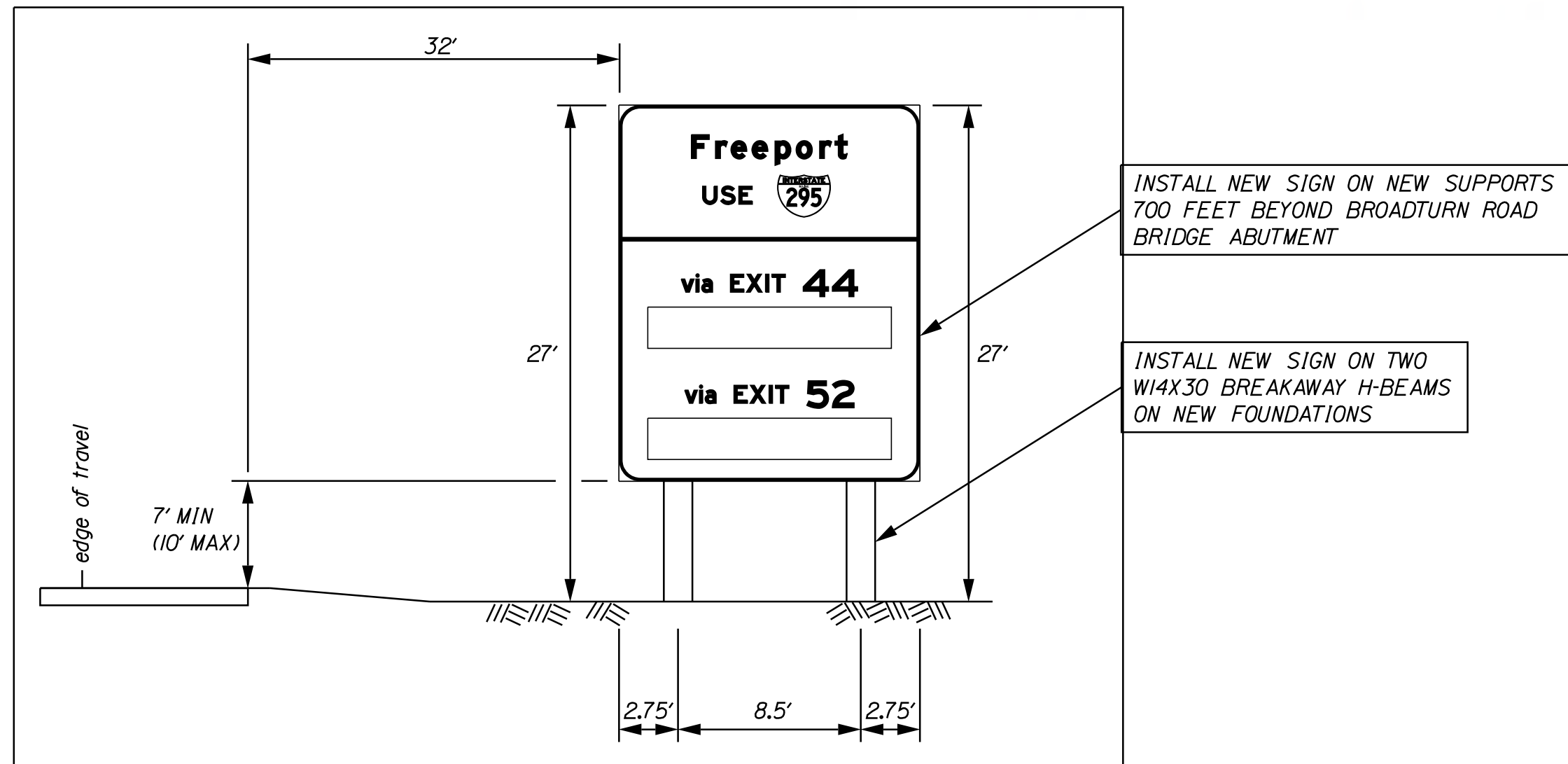
ITS
TRAVEL TIME SIGNS
GM I-95 MM 38.28_N



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	5
626.21	METALLIC CONDUIT	30
626.22	NON-METALLIC CONDUIT	900
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	7.3
645.162	BREAKAWAY DEVICE, MULTI POLE	2
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	245.00
645.289	STEEL H-BEAM POLES	1620
645.301	DEMOUNTABLE REFLECTORIZED DELINEATOR, SINGLE	6
645.52	HYBRID TRAVEL TIME SIGN: (GM I-95 MM 40.01_N)	1

PROPOSED GM I-95 MM 40.01_N SIGN FACE



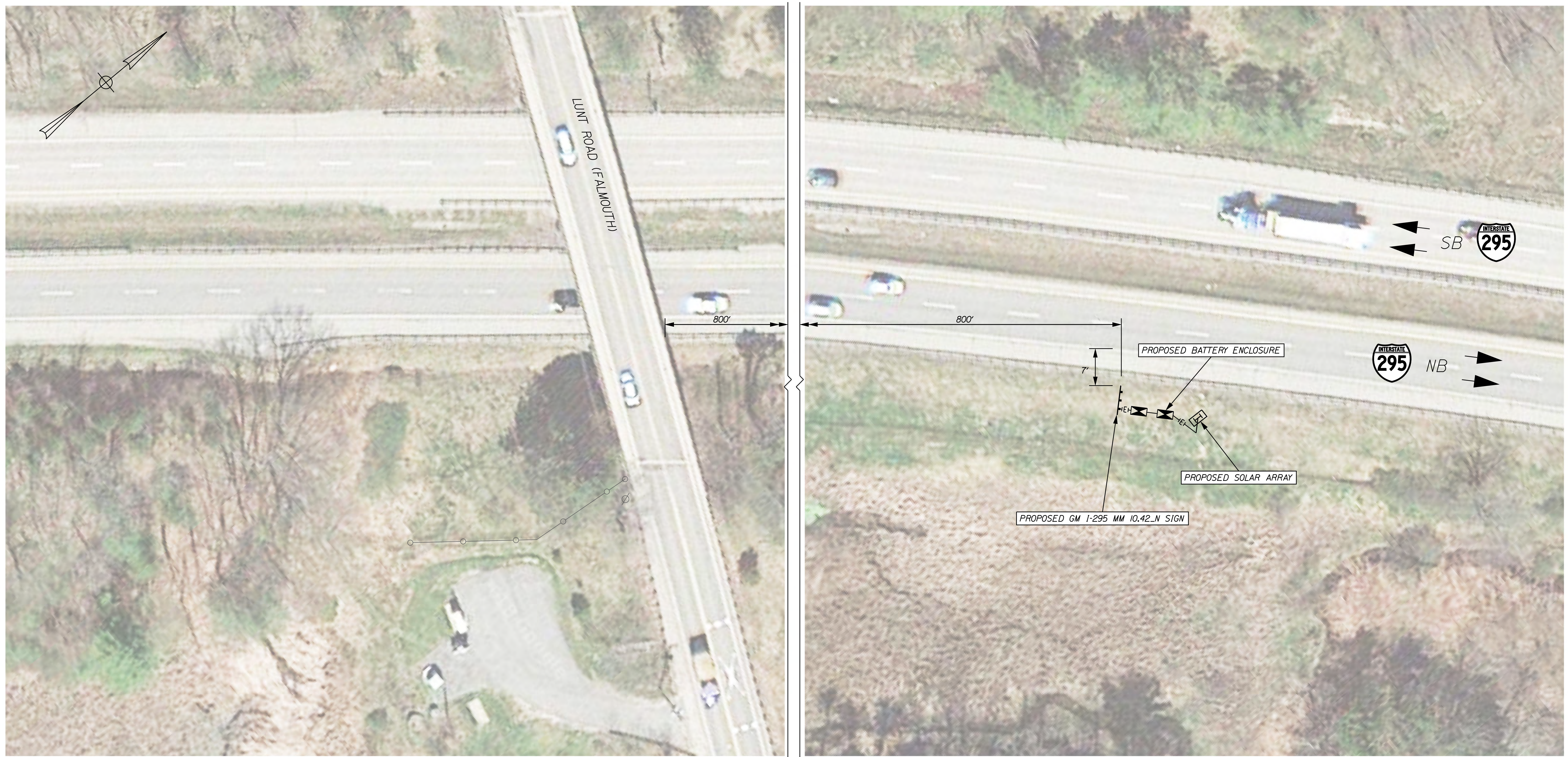
PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
GM I-95 MM 40.01_N

SHEET NUMBER

11

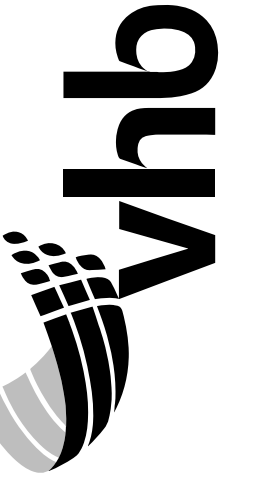
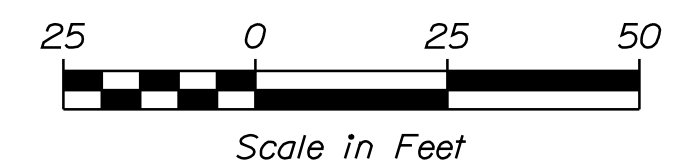
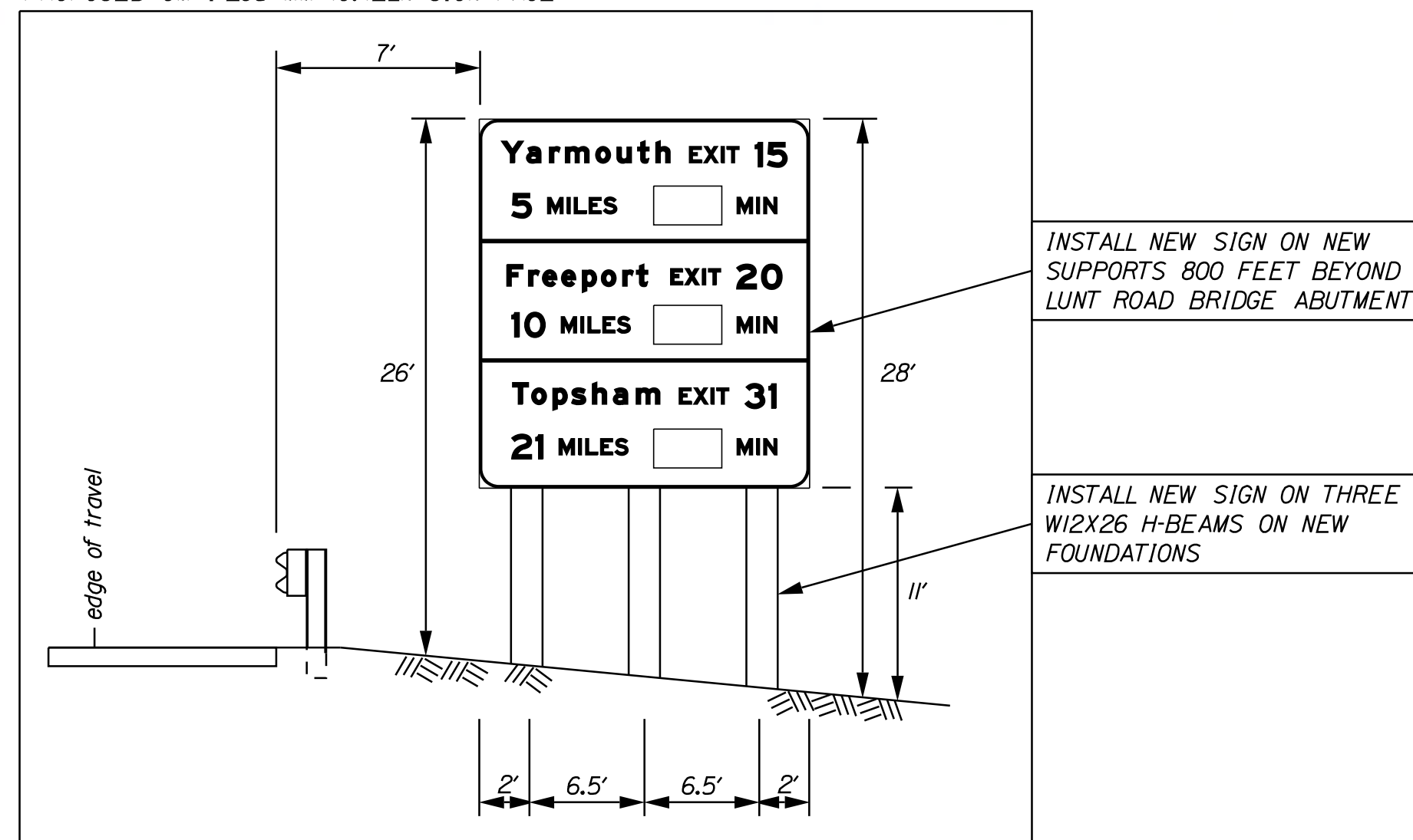
OF 19



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.21	METALLIC CONDUIT	61
626.22	NON-METALLIC CONDUIT	25
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	8.7
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	323.00
645.289	STEEL H-BEAM POLES	2106
645.52	HYBRID TRAVEL TIME SIGN:(GM I-295 MM 10.42_N)	1

PROPOSED GM I-295 MM 10.42_N SIGN FACE

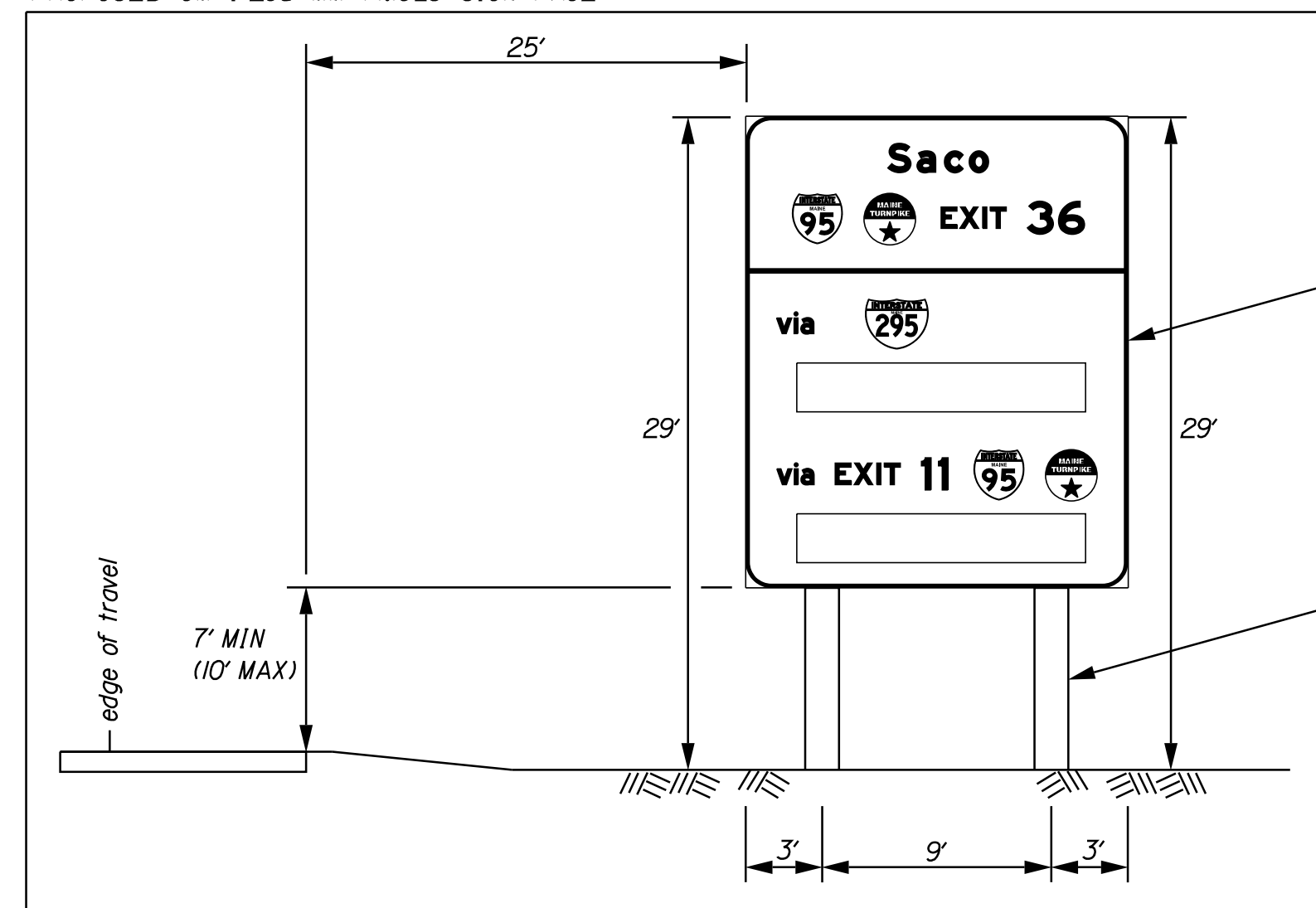


PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMEN	04/18
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
GM I-295 MM 10.42_N
(SOLAR)

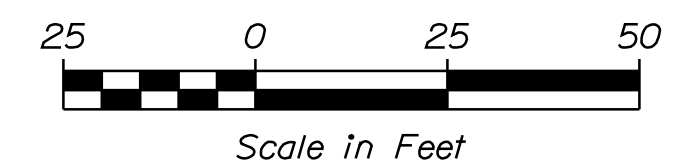


PROPOSED GM I-295 MM 14.19_S SIGN FACE

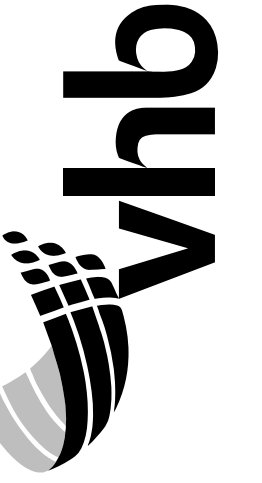


INSTALL NEW SIGN ON NEW SUPPORTS 800 FEET BEYOND THE EXISTING 62220 SIGN LOCATION

INSTALL NEW SIGN ON TWO W14X30 BREAKAWAY H-BEAMS ON NEW FOUNDATIONS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 2376(704)
WIN 23767.04
ITS PLANS



PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN/DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMEN	04/18
DESIGN/DETAILED			
REVISIONS			
REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
GM I-295 MM 14.19_S
(1 OF 2)

SHEET NUMBER

13

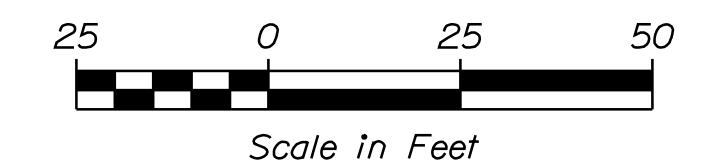
OF 19



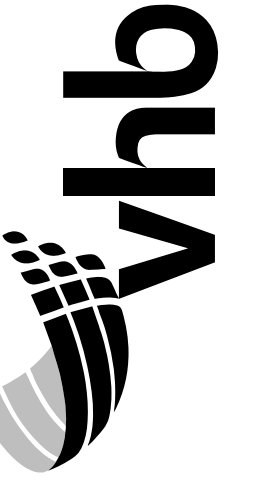
LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	5
626.21	METALLIC CONDUIT	30
626.22	NON-METALLIC CONDUIT	1015
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	7.4
645.162	BREAKAWAY DEVICE, MULTI POLE	2
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	277.50
645.289	STEEL H-BEAM POLES	1740
645.52	HYBRID TRAVEL TIME SIGN: (GM I-295 MM 14.19_S)	1

EXISTING SIGN 62220



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 2376(704)
WIN
23767.04
ITS PLANS



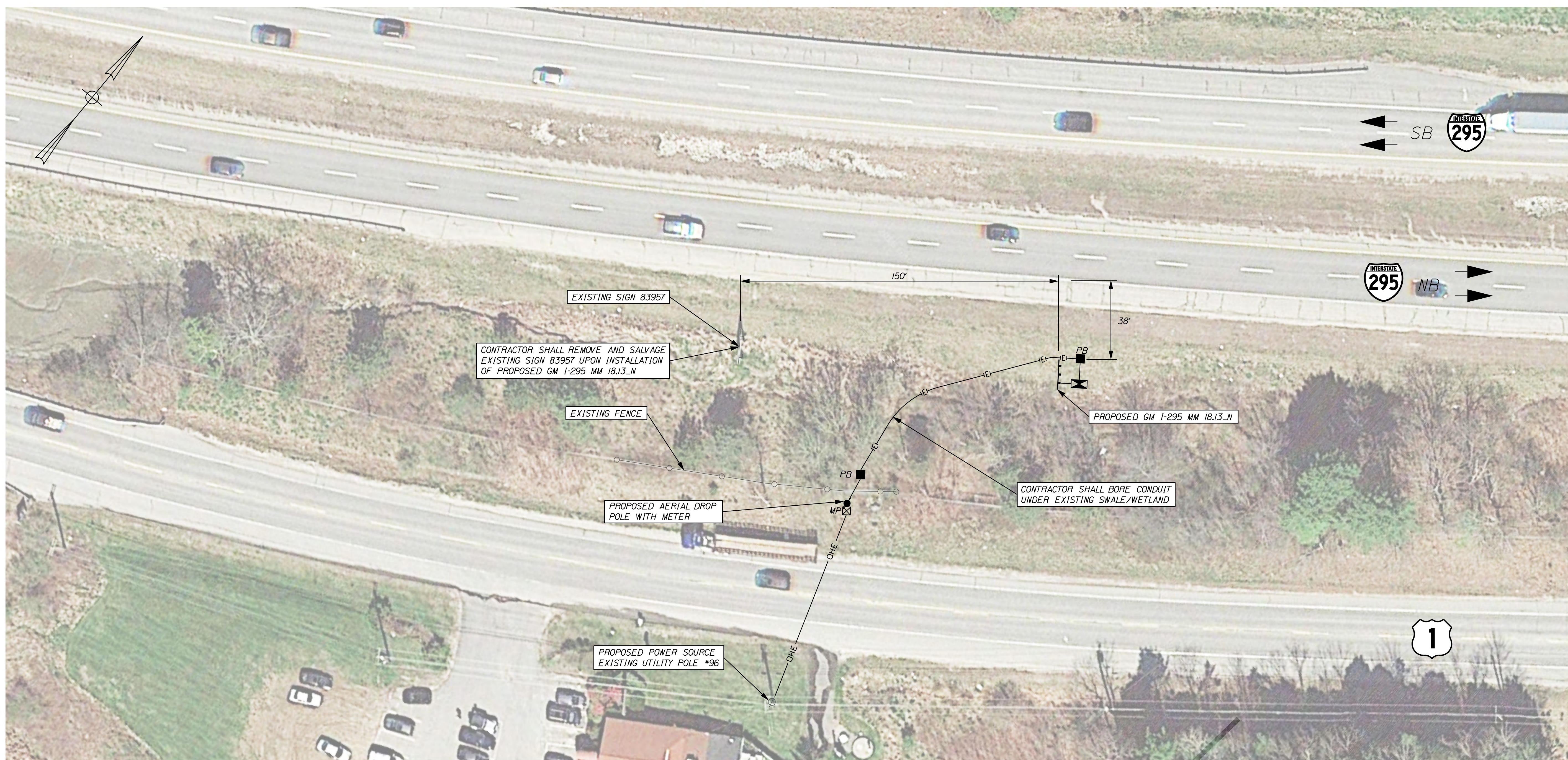
PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN DETAILED			
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
GM I-295 MM 14.19_S
(2 OF 2)

SHEET NUMBER

14

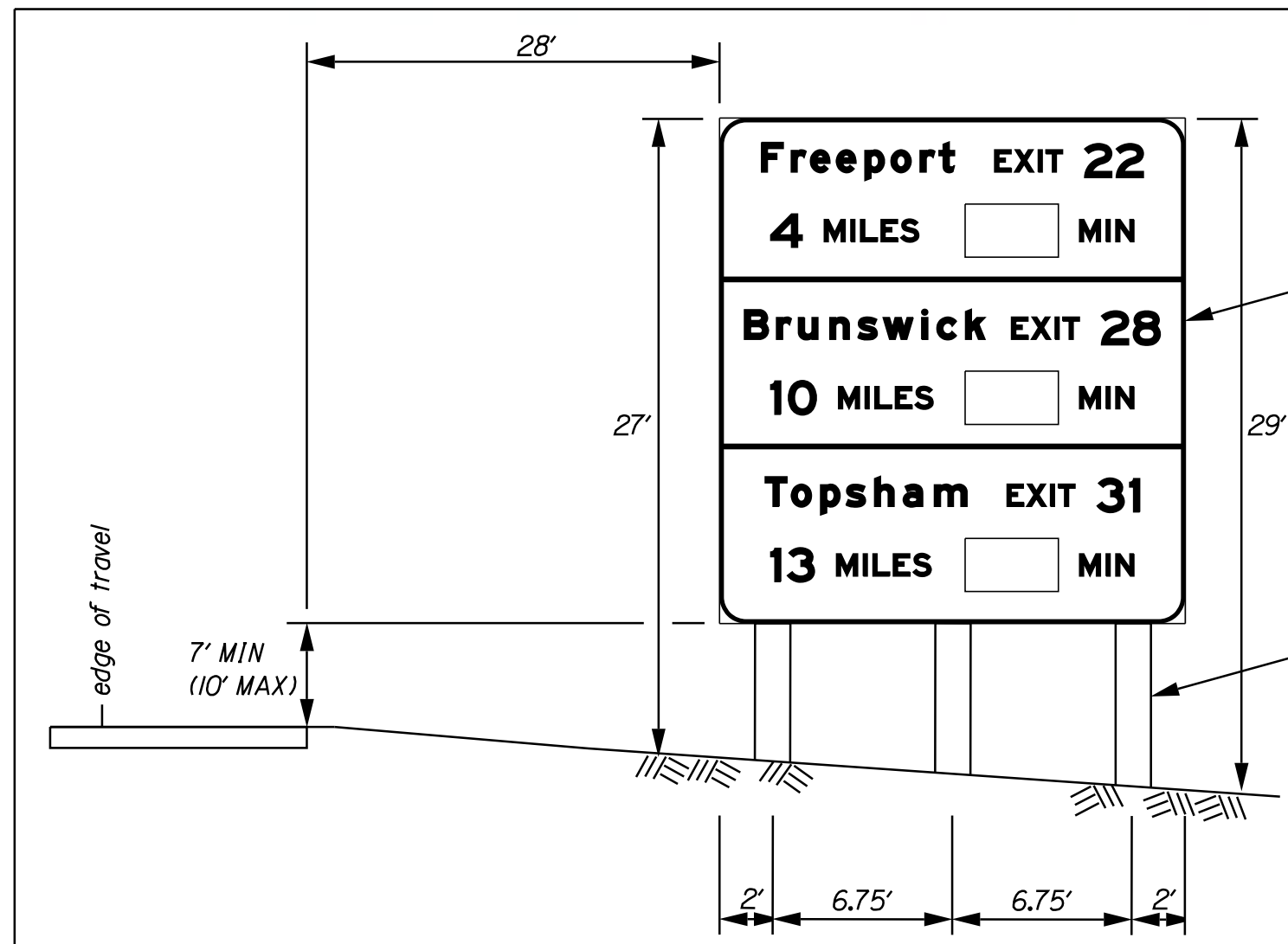
OF 19



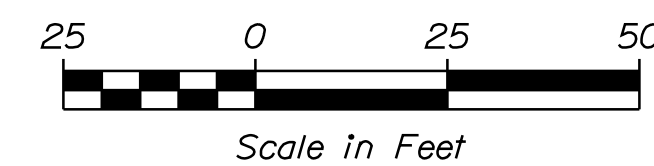
LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	2
626.21	METALLIC CONDUIT	46
626.22	NON-METALLIC CONDUIT	220
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	11.0
645.103	DEMOUNT GUIDE SIGN	1
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	332.50
645.289	STEEL H-BEAM POLES	2520
645.52	HYBRID TRAVEL TIME SIGN: (GM 1-295 MM 18.13_N)	1

PROPOSED GM 1-295 18.13_N SIGN FACE



EXISTING SIGN 83957



PROJ. MANAGER	S. LANDRY	BY	DATE
CHECKED-REVIEWED	E. DREW	J. ROBERT	04/18
DESIGN DETAILED	E. DREW	M. SIEMEN	04/18
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

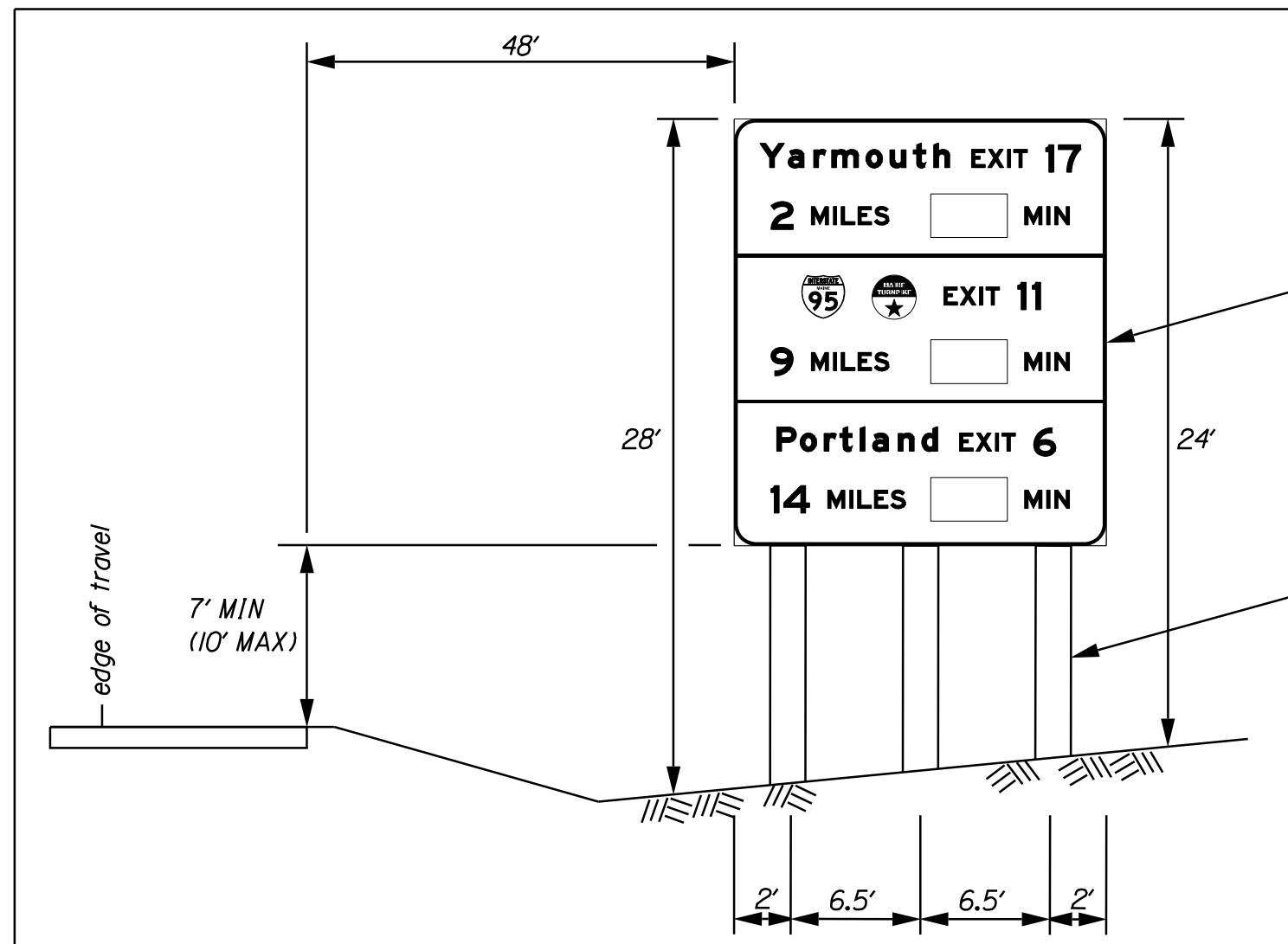
ITS
TRAVEL TIME SIGNS
GM 1-295 MM 18.13_N



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	3
626.21	METALLIC CONDUIT	46
626.22	NON-METALLIC CONDUIT	560
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	11.0
645.103	DEMOUNT GUIDE SIGN	1
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	331.50
645.289	STEEL H-BEAM POLES	2400
645.52	HYBRID TRAVEL TIME SIGN:(GM I-295 MM 19.79_S)	1

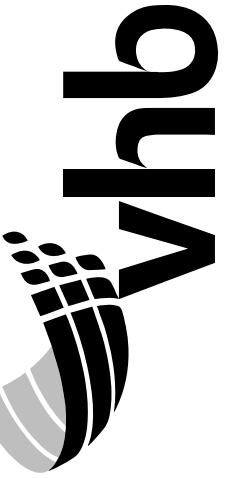
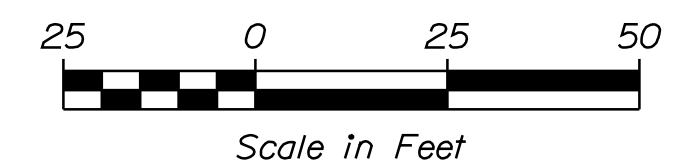
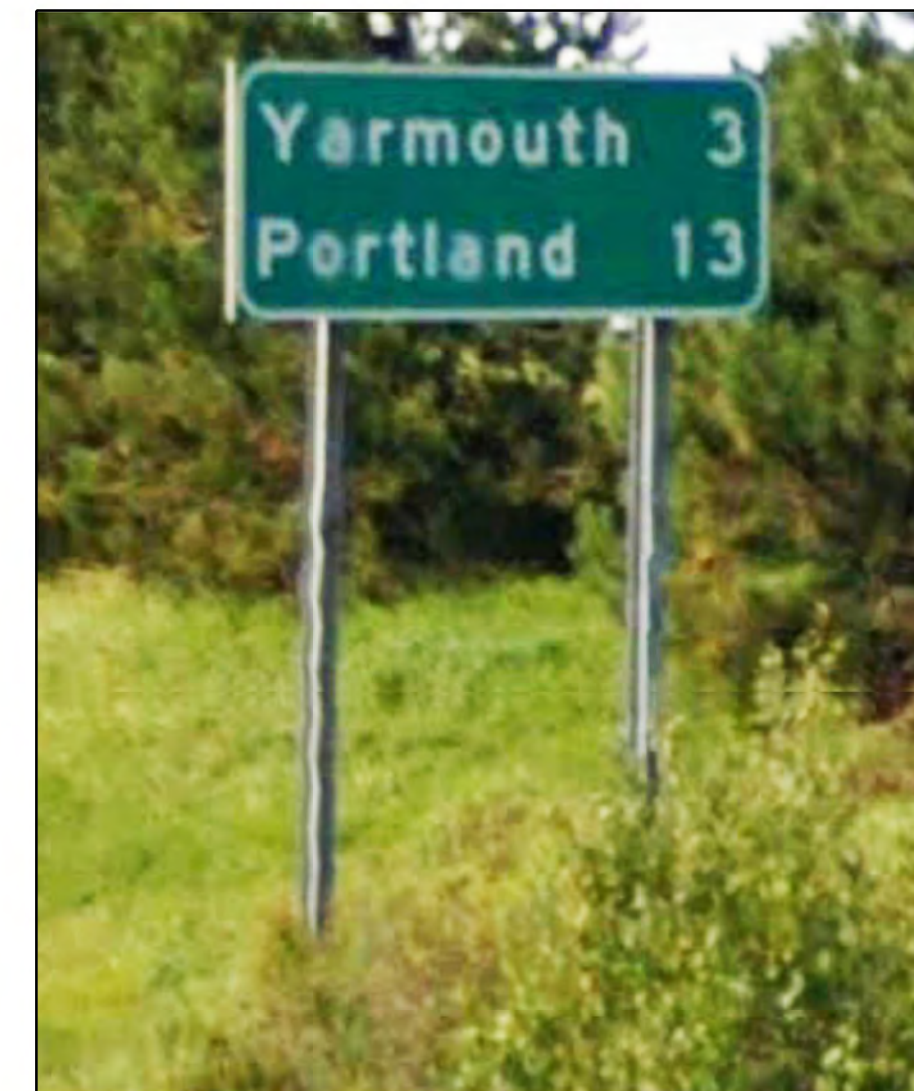
PROPOSED GM I-295 19.79_S SIGN FACE



INSTALL NEW SIGN ON NEW SUPPORTS TO FEET BEHIND EXISTING SIGN 62089

INSTALL NEW SIGN ON THREE W14X30 H-BEAMS ON NEW FOUNDATIONS

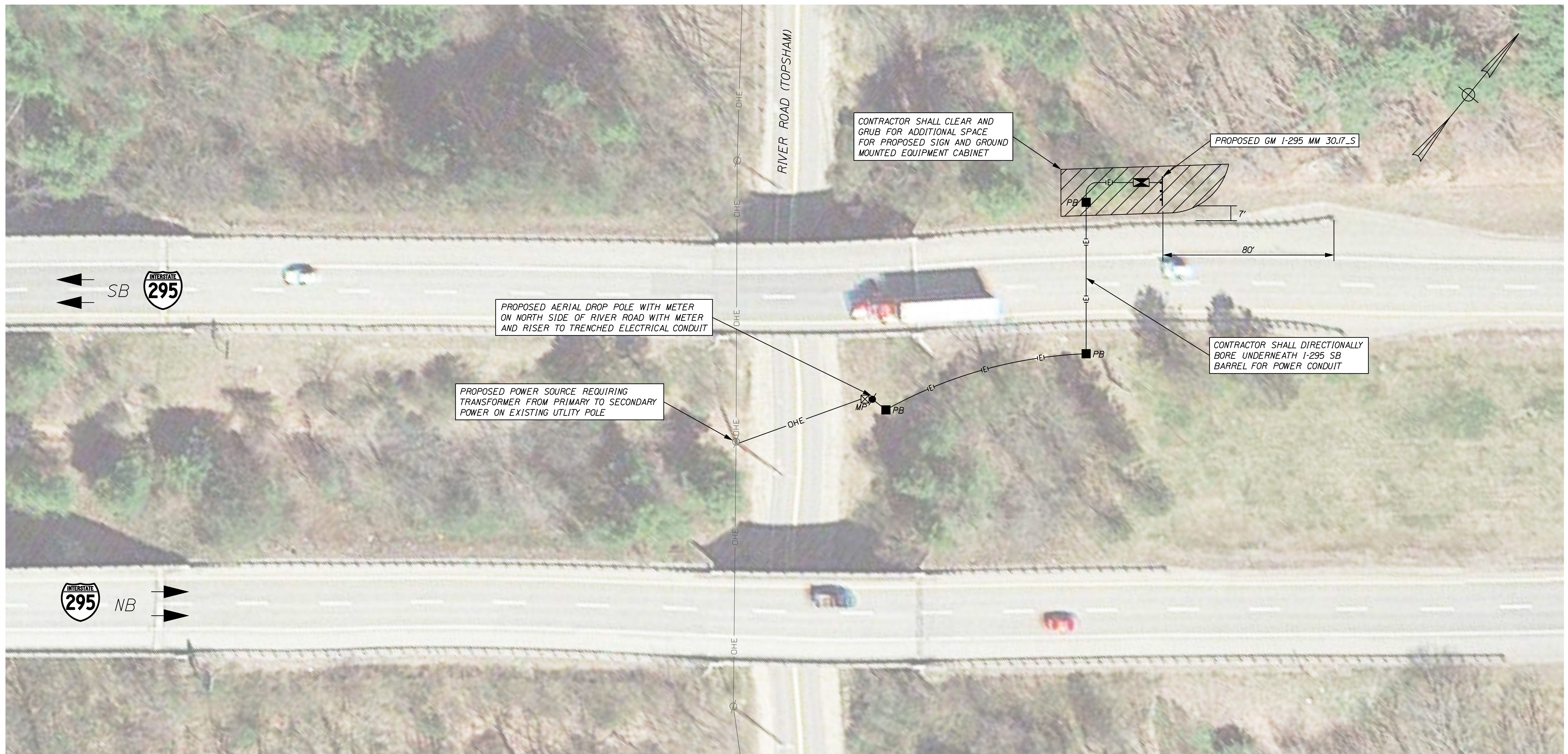
EXISTING SIGN 62089



PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SUENNEN	04/18
DESIGN-DETAILED			
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REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS

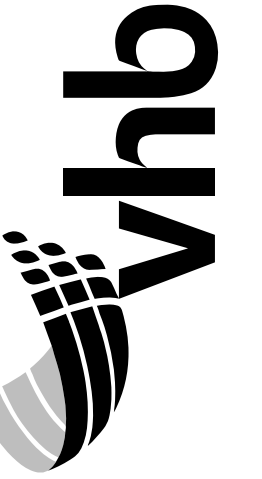
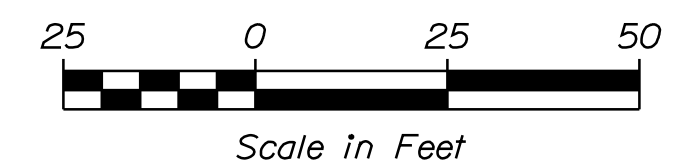
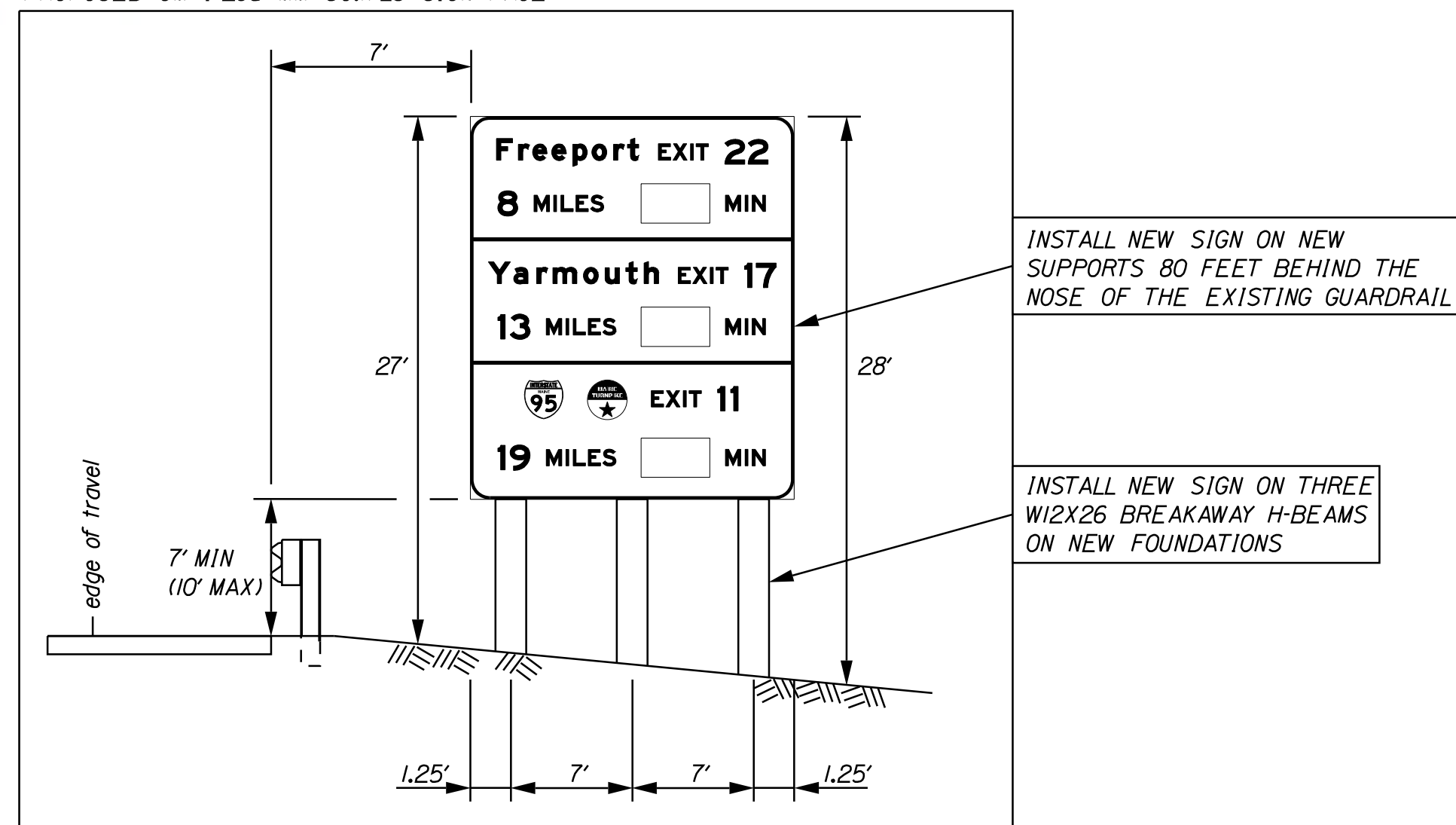
GM I-295 MM 19.79_S



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
201.12	SELECTIVE CLEARING AND THINNING	0.10
626.11	PRECAST CONCRETE JUNCTION BOX	3
626.21	METALLIC CONDUIT	46
626.22	NON-METALLIC CONDUIT	155
626.251	NON-METALLIC UNDER PAVEMENT CONDUIT (SCHEDULE 80 OR GREATER RATING)	70
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	8.7
645.162	BREAKAWAY DEVICE, MULTI POLE	3
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	321.75
645.289	STEEL H-BEAM POLES	2145
645.52	HYBRID TRAVEL TIME SIGN: (GM I-95 MM 30.17_S)	1

PROPOSED GM I-295 MM 30.17_S SIGN FACE



PROJ. MANAGER	S. LANDRY	BY	DATE
CHECKED-DETAILED	E. DREW	J. ROBERT	04/18
CHECKED-REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGNS-DETAILED			
DESIGNS-REVIEWED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
GM I-295 MM 30.17_S

SHEET NUMBER

17

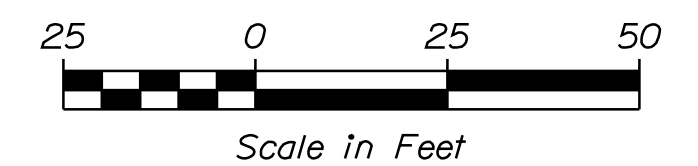
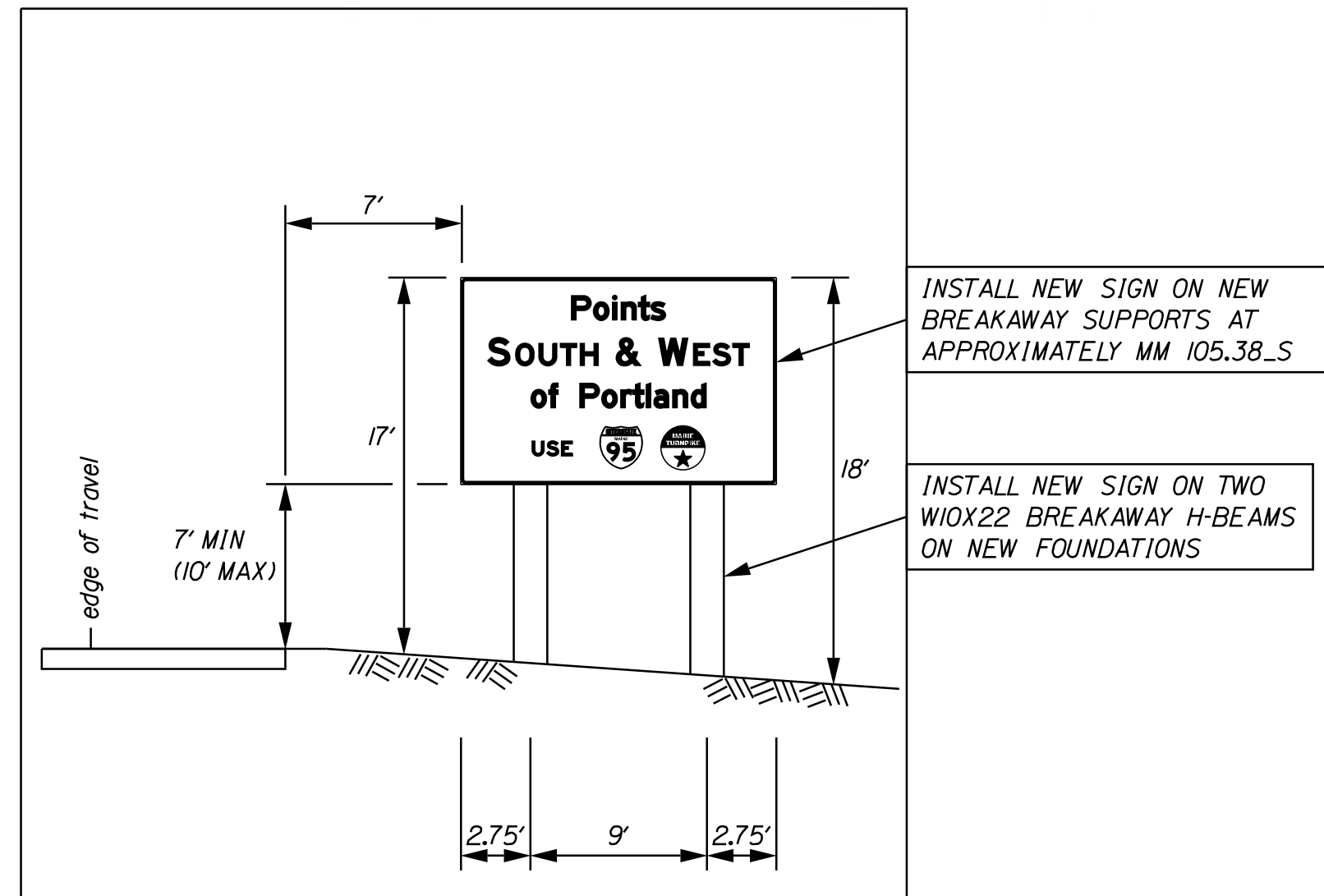
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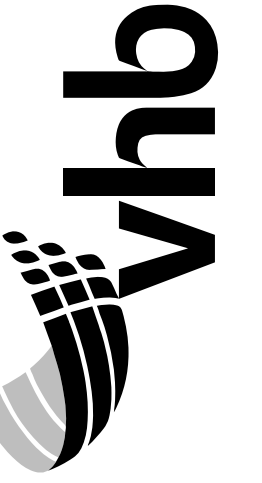
LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.32	24 INCH DIAMETER FOUNDATIONS	2
645.162	BREAKAWAY DEVICE, MULTI POLE	2
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	137.75
645.289	STEEL H-BEAM POLES	770

PROPOSED GM 1-95 105.38_S SIGN FACE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 2376(704)
WIN 23767.04
ITS PLANS



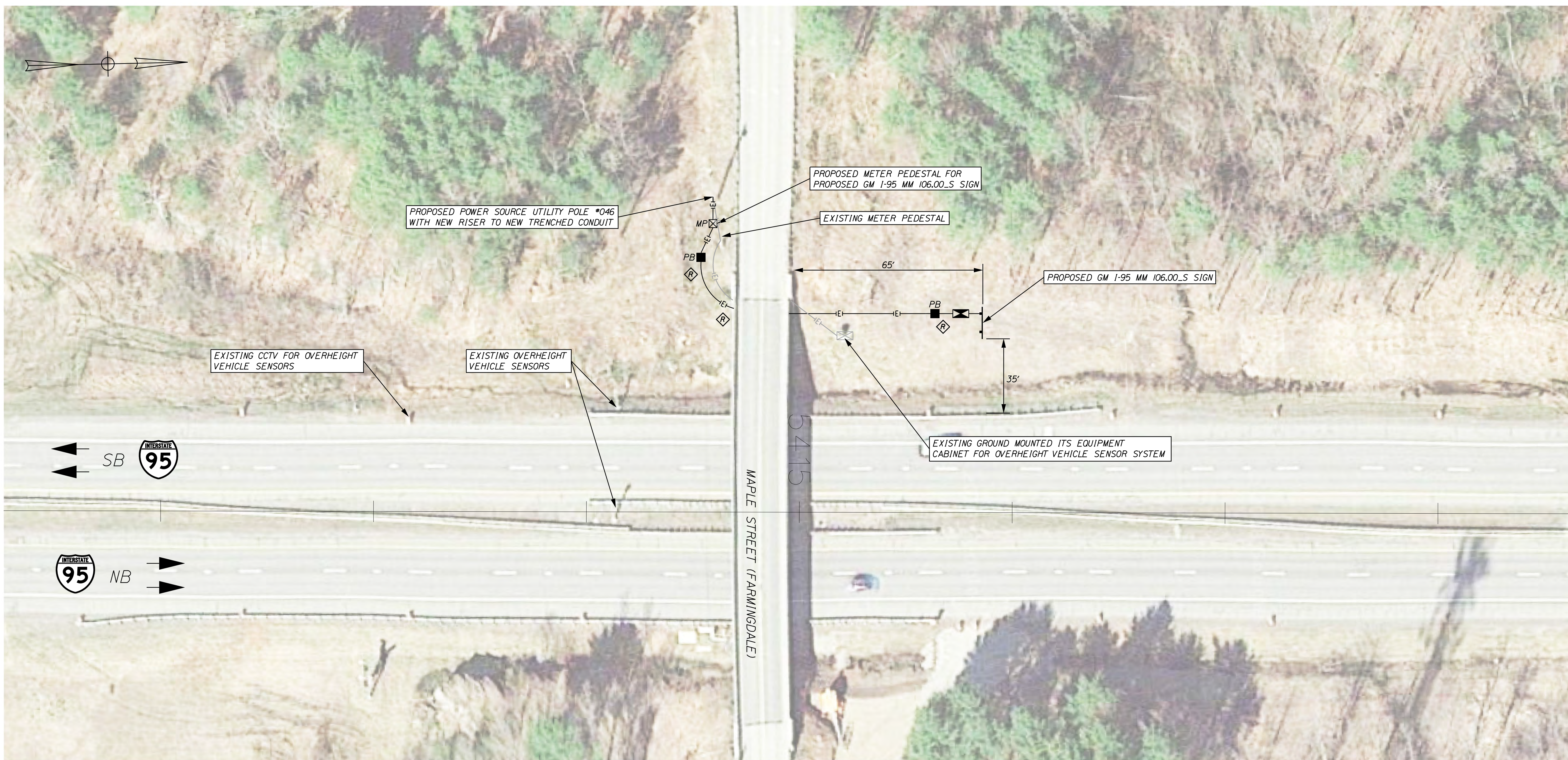
PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMEN	04/18
DESIGN DETAILED			
REVISIONS 1			
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ITS TRAVEL TIME SIGNS
GM 1-95 MM 105.38_S

SHEET NUMBER

18

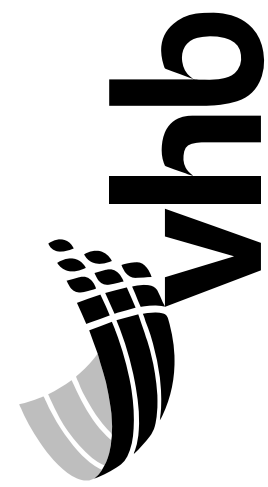
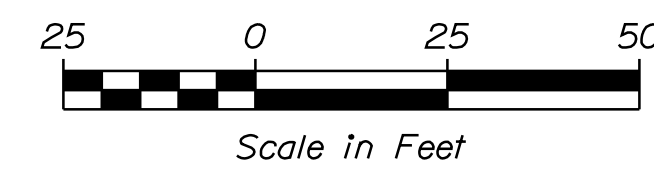
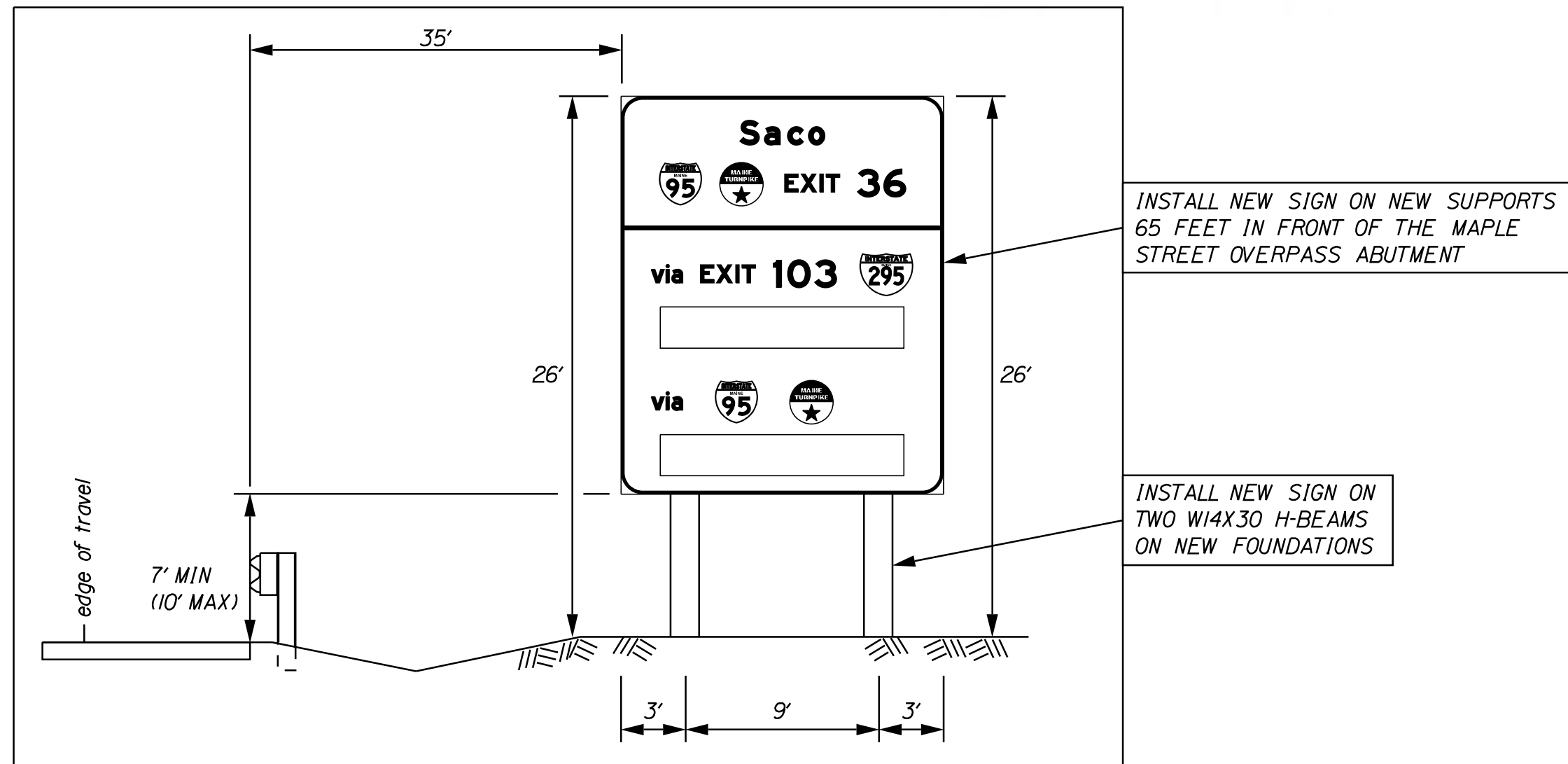
OF 19



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	2
626.21	METALLIC CONDUIT	30
626.22	NON-METALLIC CONDUIT	175
626.332	30 INCH DIAMETER, GREATER THAN 8 FEET LONG AND ALL 36 INCH AND 42 INCH FOUNDATIONS	7.4
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	277.50
645.289	STEEL H-BEAM POLES	1560
645.301	DEMOUNTABLE REFLECTORIZED DELINEATOR, SINGLE	3
645.52	HYBRID TRAVEL TIME SIGN: (GM I-95 MM 106.00_S)	1

PROPOSED GM I-95 MM 106.00_S SIGN FACE



PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN DETAILED	E. DREW	J. ROBERT	04/18
CHECKED/REVIEWED	E. DREW	M. SIEMMEN	04/18
DESIGN DETAILED			
REVISIONS			
REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

ITS
TRAVEL TIME SIGNS
GM I-95 MM 106.00_S