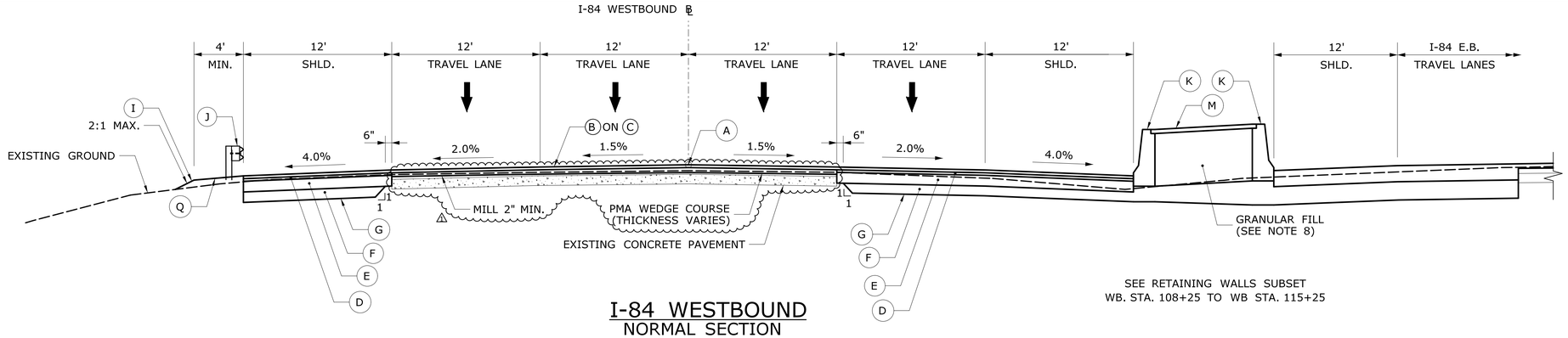
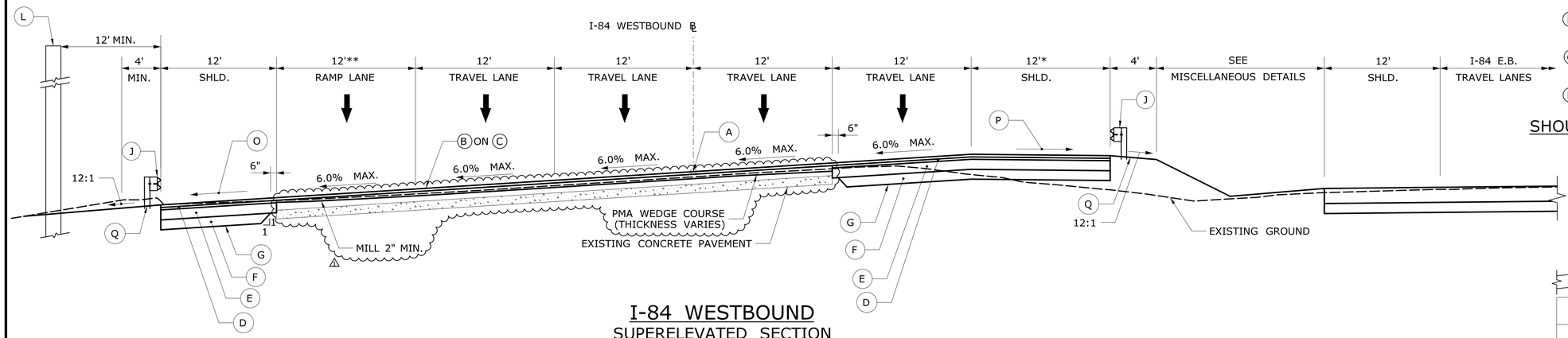
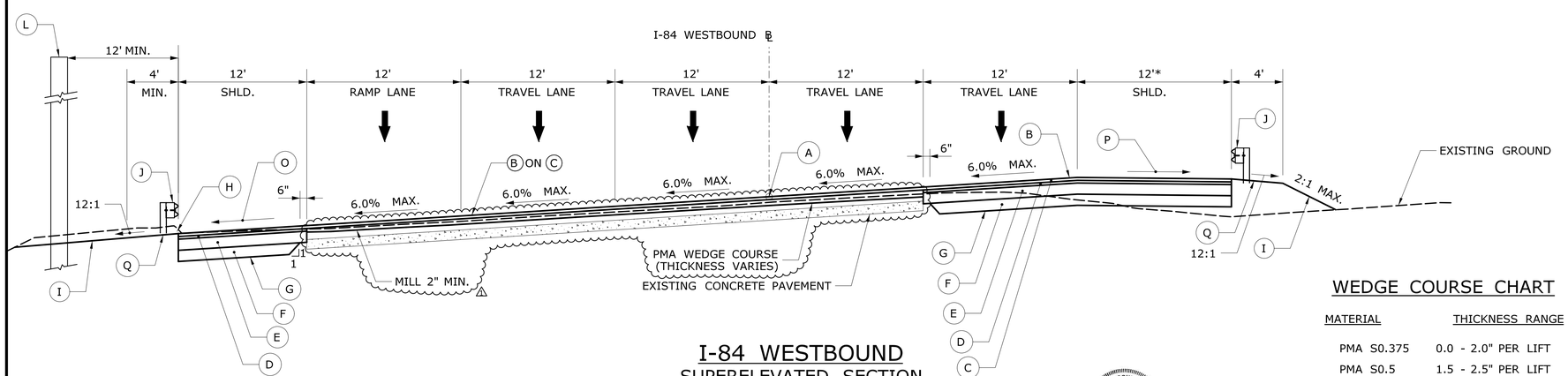



# I-84 WESTBOUND
## NORMAL SECTION
STA. WB 105+27 TO STA. 109+42




# I-84 WESTBOUND
## SUPERELEVATED SECTION
STA. WB 86+10 TO STA. 101+50
* WIDTH VARIES FROM 4' TO 12' FROM STA. WB 81+94 TO STA. WB 86+60
** WIDTH VARIES FROM 0' TO 12' FROM STA. WB 87+50 TO STA. WB 91+00
** NO RAMP LANE FROM STA. WB 96+10 TO STA. WB 101+50

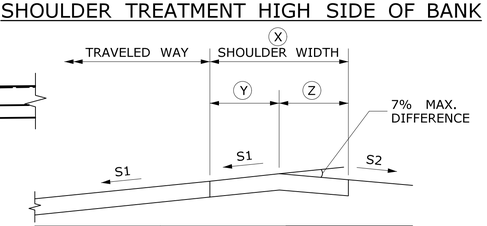



# I-84 WESTBOUND
## SUPERELEVATED SECTION
STA. WB 81+94 TO STA. 86+10
STA. WB 175+34 TO STA. 177+00
* WIDTH VARIES FROM 4' TO 12' FROM STA. WB 81+94 TO STA. WB 86+60

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 10) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## SHOULDER TREATMENT HIGH SIDE OF BANK




| X | Y | Z |
|---|---|---|
| < 4' | 0' TO 4' | 0' |
| 4' TO < 8' | 0' TO 4' | 4' |
| >= 8' | 0' | >=8' |

NOTES:
1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE.
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. SHOULDER TREATMENT MAY REQUIRE ATTACHABLE EXTENSIONS OR CUT-OFF PLATES ON PAVING EQUIPMENT.
7. WHERE S2 IS FLATTER THAN 2% THE CONTRACTOR SHALL VERIFY THE CROSS SLOPE AT EACH 25' INTERVAL (PAYMENT SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS CONCRETE PAY ITEM - THERE WILL BE NO DIRECT PAYMENT.)
8. GRANULAR FILL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 8".
9. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
10. △1 IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT.

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

STATE OF CONNECTICUT MICHAEL W. DION No. 23708 LICENSED PROFESSIONAL ENGINEER

Michael Dion
2019.12.04
15:49:29-05'00'

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.008 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-01-A2.dgn

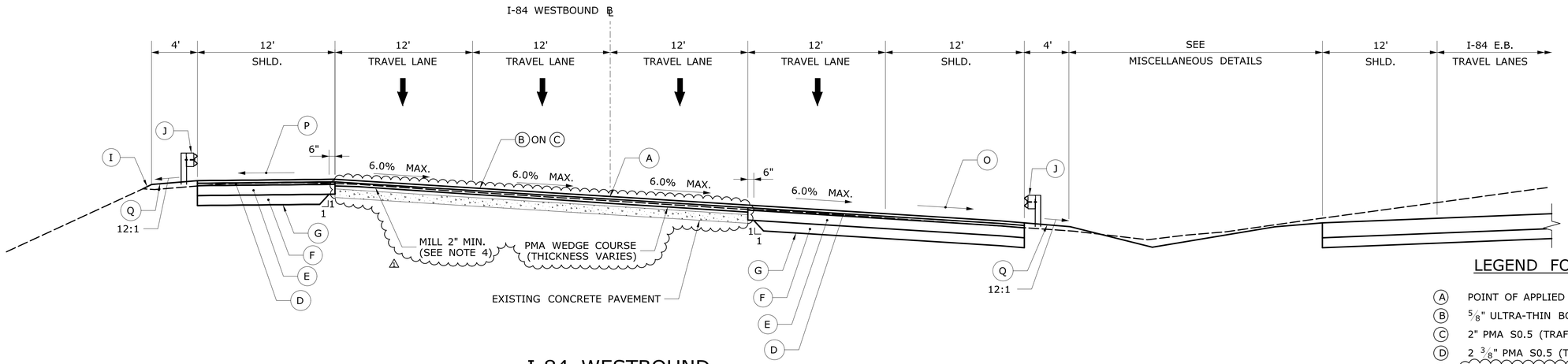
SIGNATURE/BLOCK:

PROJECT TITLE: SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84

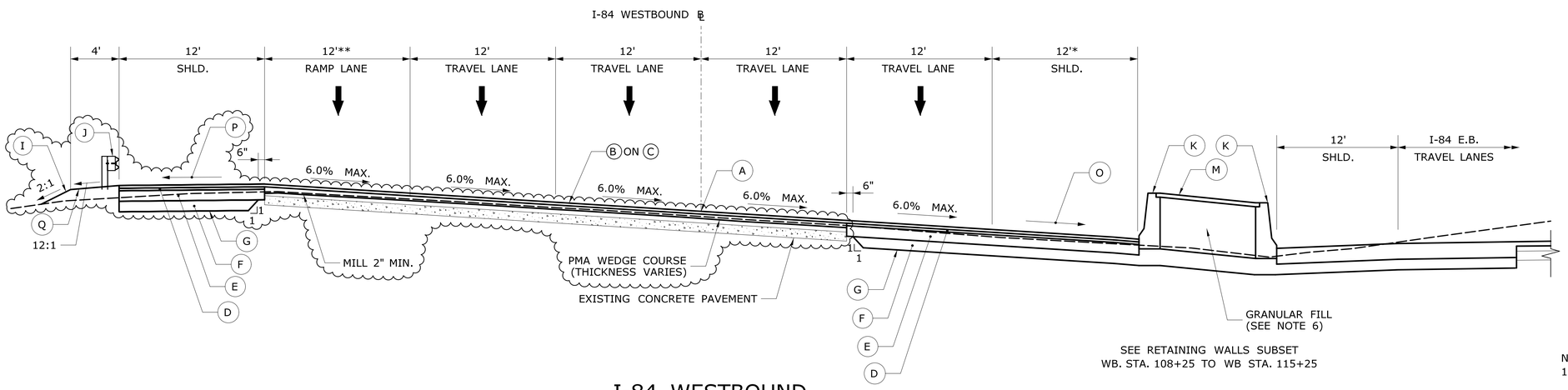
TOWN: WEST HARTFORD

DRAWING TITLE: I-84 WESTBOUND TYPICAL SECTIONS

PROJECT NO. 155-171
DRAWING NO. TYP-01
SHEET NO. 03.008.A2




## I-84 WESTBOUND
### SUPERELEVATED SECTION
STA. STA. 120+75 TO STA. 130+05




## I-84 WESTBOUND
### SUPERELEVATED SECTION
STA. WB 109+42 TO STA. 120+75

* WIDTH VARIES FROM 12' TO 23' FROM STA. WB 114+00 TO STA. WB 116+19
* WIDTH VARIES FROM 25' TO 12' FROM STA. WB 117+55 TO STA. WB 120+15
** WIDTH VARIES FROM 0' TO 12' FROM STA. WB 111+00 TO STA. WB 118+50
** NO RAMP LANE FROM STA. WB 109+42 TO STA. WB 111+00

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 8) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

NOTES:
1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. GRANULAR FILL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 8".
7. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO 0406192A.
8. IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT. △1

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.009 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-02-A2.dgn

SIGNATURE/BLOCK:

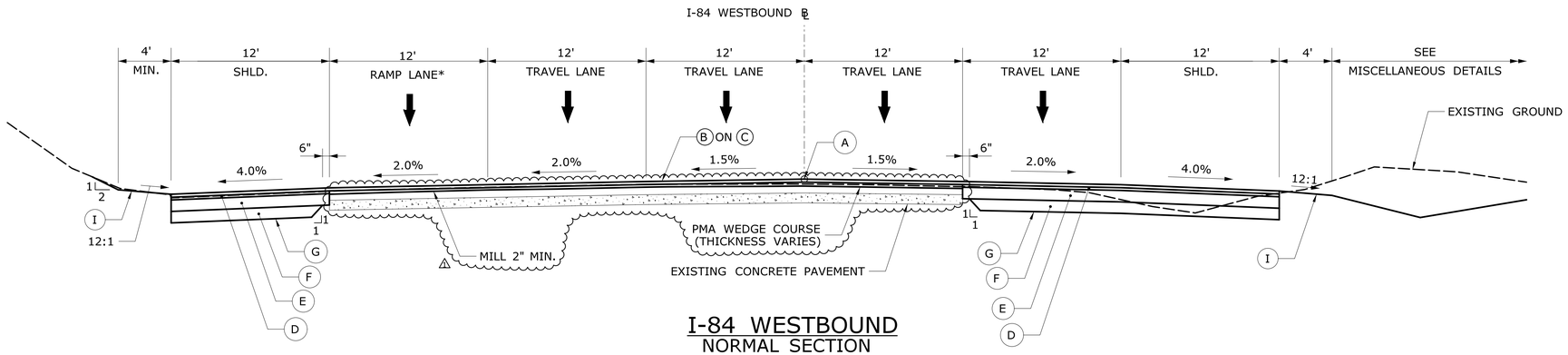
STATE OF CONNECTICUT · MICHAEL W. DRUCE · No. 28788 · LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84

TOWN: WEST HARTFORD

DRAWING TITLE: I-84 WESTBOUND TYPICAL SECTIONS

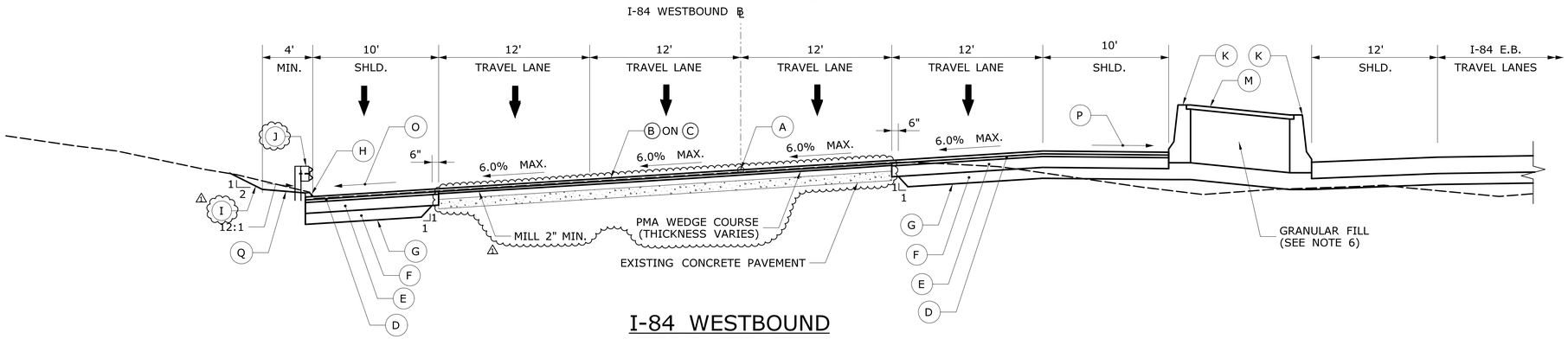
PROJECT NO. 155-171
DRAWING NO. TYP-02
SHEET NO. 03.009.A2




# I-84 WESTBOUND
## NORMAL SECTION

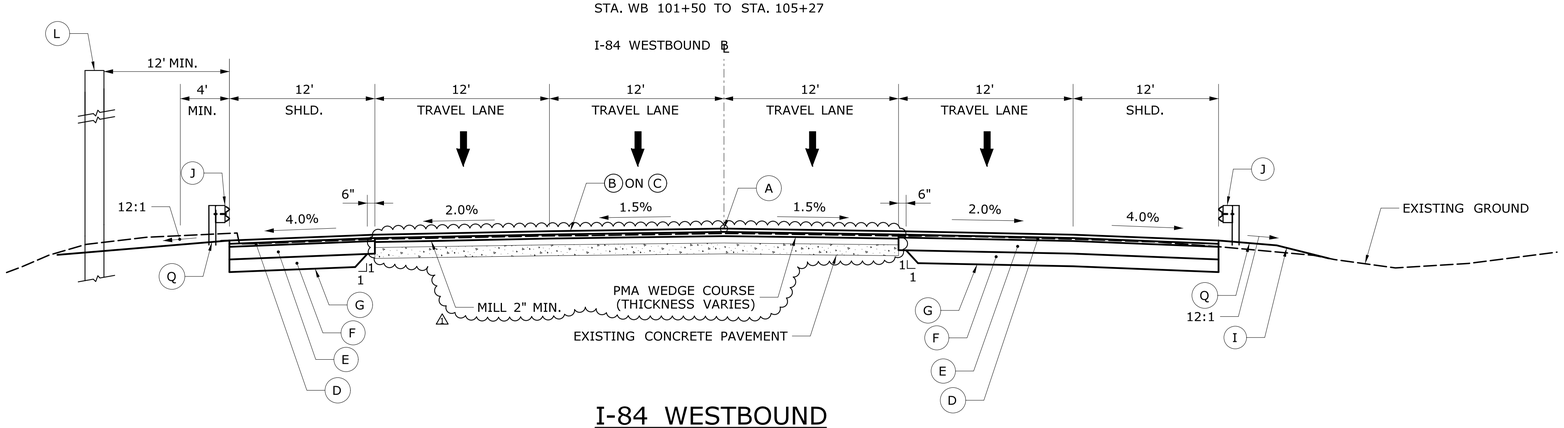
STA. WB 130+05 TO STA. 143+21
STA. WB 157+87 TO STA. 170+00

*WIDTH VARIES 0' TO 12' STA. WB 130+00 TO STA. WB 136+00
*WIDTH VARIES 12' TO 0' STA. WB 160+00 TO STA. WB 162+50
*NO RAMP LANE FROM STA. WB 136+00 TO STA. WB 143+21
*NO RAMP LANE FROM STA. WB 162+50 TO STA. WB 170+00




# I-84 WESTBOUND
## SUPERELEVATED SECTION

STA. WB 101+50 TO STA. 105+27




# I-84 WESTBOUND
## NORMAL SECTION

STA. WB 81+00 TO STA. 81+94
STA. WB 170+00 TO STA. 171+61

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 8) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1 | 3.0 - 5.0" PER LIFT |

NOTES:
1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. GRANULAR FILL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 8".
7. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
8. IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT. △1

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.010 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-03-A2.dgn

SIGNATURE/BLOCK:

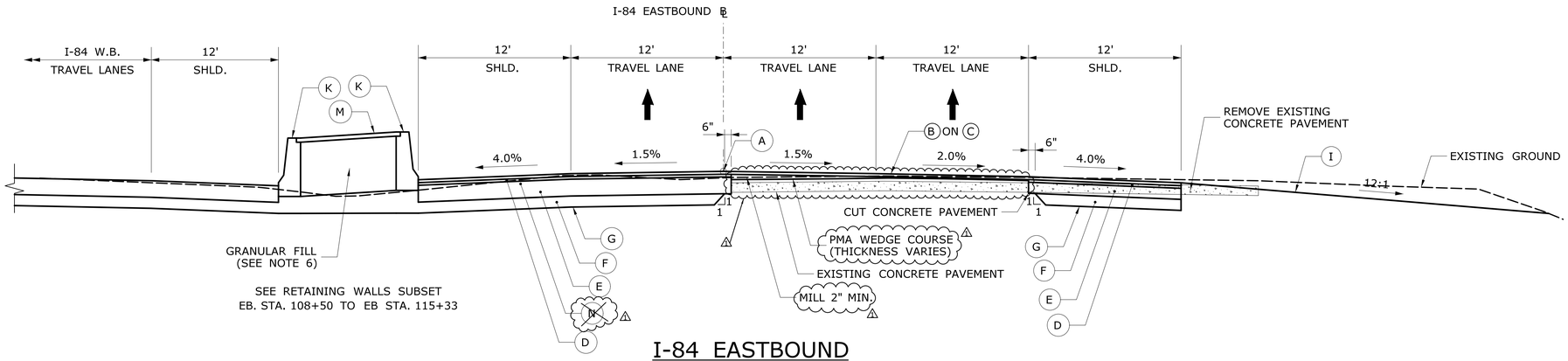
STATE OF CONNECTICUT · MICHAEL W. DRUCE · No. 28798 · LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84

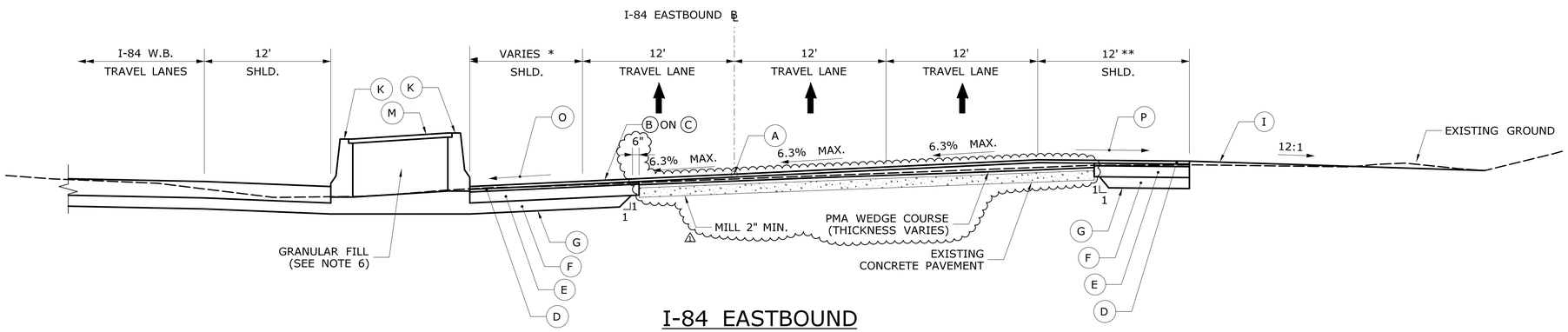
TOWN: WEST HARTFORD

DRAWING TITLE: I-84 WESTBOUND TYPICAL SECTIONS

PROJECT NO. 155-171
DRAWING NO. TYP-03
SHEET NO. 03.010.A2

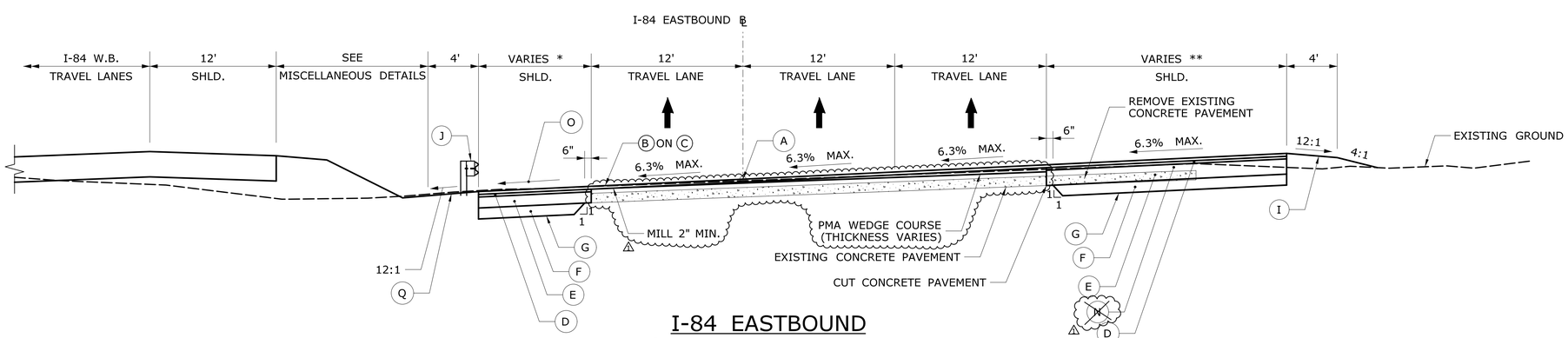



## I-84 EASTBOUND
### NORMAL SECTION
STA. EB 105+68 TO STA. EB 109+09




## I-84 EASTBOUND
### TRANSITION SECTION
STA. EB 101+70 TO STA. EB 105+68

* WIDTH VARIES FROM 4' TO 12' FROM STA. EB 101+70 TO STA. EB 105+60
** WIDTH VARIES FROM 14' TO 12' FROM STA. EB 101+70 TO STA. EB 102+34




## I-84 EASTBOUND
### SUPERELEVATED SECTION
STA. EB 100+00 TO STA. EB 101+70

* WIDTH VARIES FROM 4' TO 12' FROM STA. EB 100+00 TO STA. EB 105+60
** WIDTH VARIES FROM 14' TO 12' FROM STA. EB 101+00 TO STA. EB 102+34

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 8) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

NOTES:
1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. GRANULAR FILL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 8".
7. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
8. IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT. △1

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.011 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-04-A2.dgn

SIGNATURE/BLOCK:

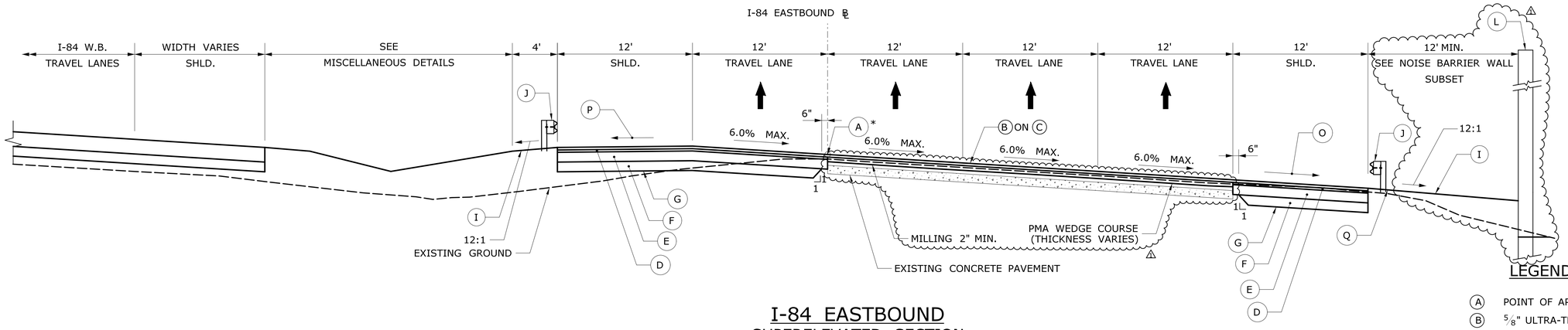
STATE OF CONNECTICUT
MIGUEL W. DIAZ
No. 22728
LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:
**SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84**

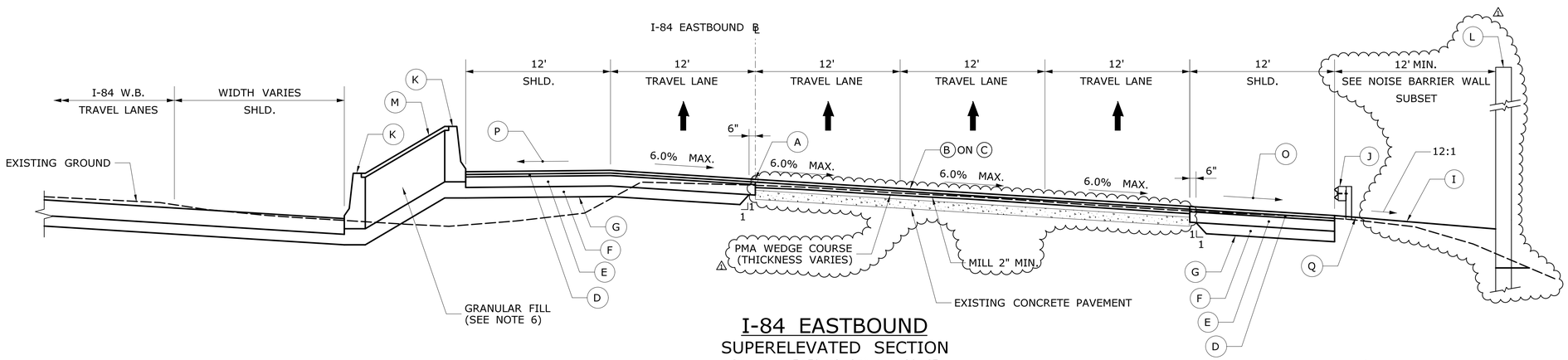
TOWN: **WEST HARTFORD**

DRAWING TITLE: **I-84 EASTBOUND TYPICAL SECTIONS**

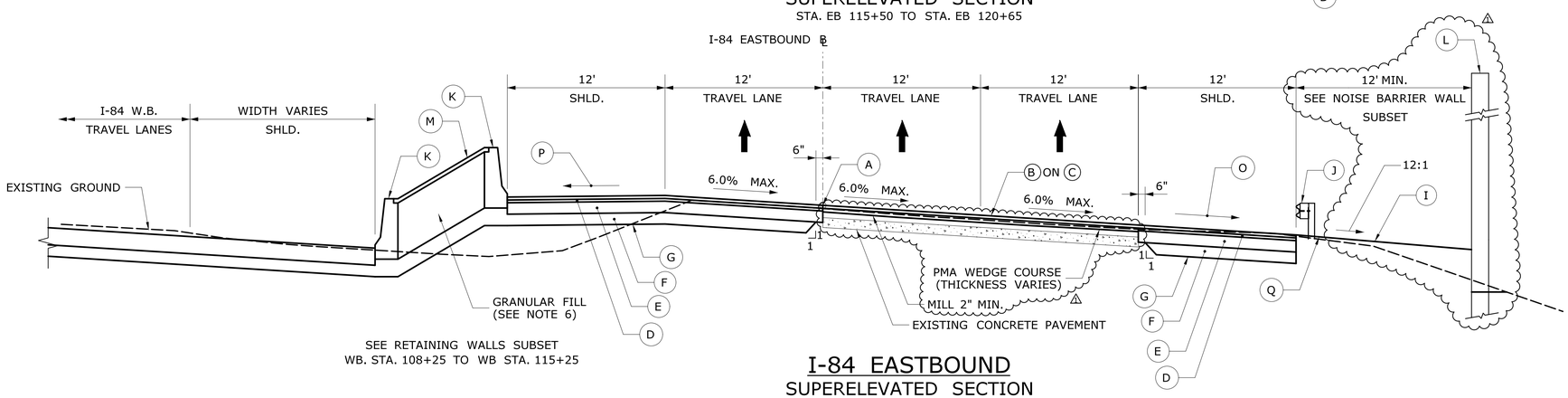
PROJECT NO. **155-171**
DRAWING NO. **TYP-04**
SHEET NO. **03.011.A2**




## I-84 EASTBOUND
SUPERELEVATED SECTION
STA. EB 120+65 TO STA. EB 129+00




## I-84 EASTBOUND
SUPERELEVATED SECTION
STA. EB 115+50 TO STA. EB 120+65




SEE RETAINING WALLS SUBSET
WB. STA. 108+25 TO WB STA. 115+25

## I-84 EASTBOUND
SUPERELEVATED SECTION
STA. EB 109+09 TO STA. EB 115+50

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 8) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

NOTES:
1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. GRANULAR FILL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 8".
7. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
8. △1 IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT.

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.012 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-05-A2.dgn

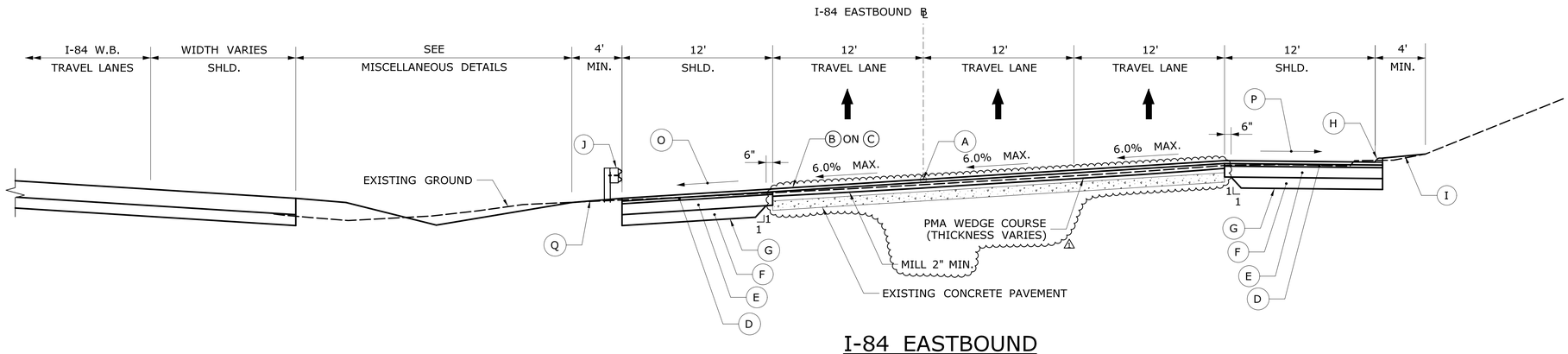
SIGNATURE/BLOCK:
STATE OF CONNECTICUT · MICHAEL W. DRUMM · No. 28728 · LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:
**SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84**

TOWN: **WEST HARTFORD**

DRAWING TITLE: **I-84 EASTBOUND TYPICAL SECTIONS**

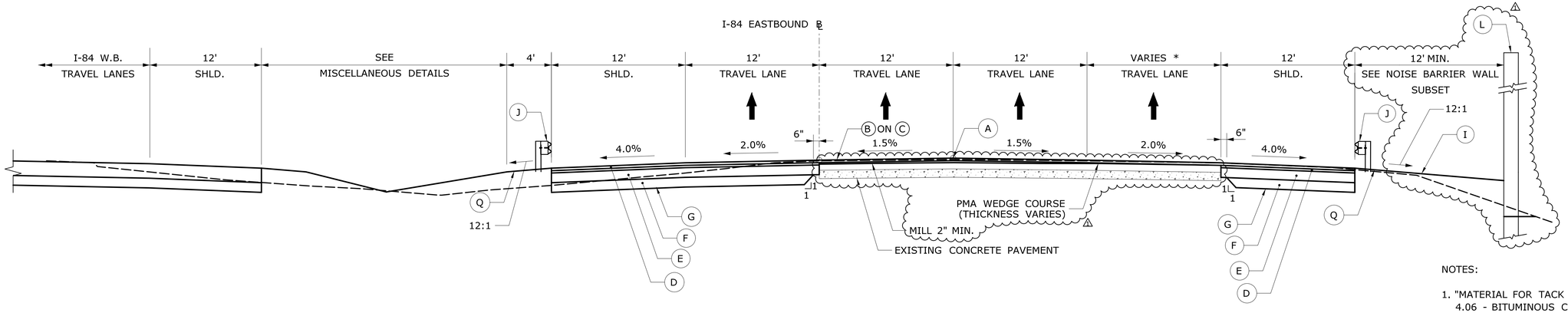
PROJECT NO. **155-171**
DRAWING NO. **TYP-05**
SHEET NO. **03.012.A2**




# I-84 EASTBOUND

## SUPERELEVATED SECTION

STA. EB 142+66 TO STA. EB 155+33




# I-84 EASTBOUND

## NORMAL SECTION

STA. EB 129+09 TO STA. EB 142+66

* NO FOURTH TRAVEL LANE FROM STA. EB 133+50 TO STA. EB 142+66

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 7) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

NOTES:

1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
7. IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT. △1

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.013 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE

CHECKED BY: MD/MF

SCALE AS NOTED

**STATE OF CONNECTICUT**
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\HW_MSH_155-171_TYP-06-A2.dgn

SIGNATURE/BLOCK:

STATE OF CONNECTICUT
MICHAEL W. DUFF
NO. 23708
LICENSED
PROFESSIONAL ENGINEER

PROJECT TITLE:
**SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84**

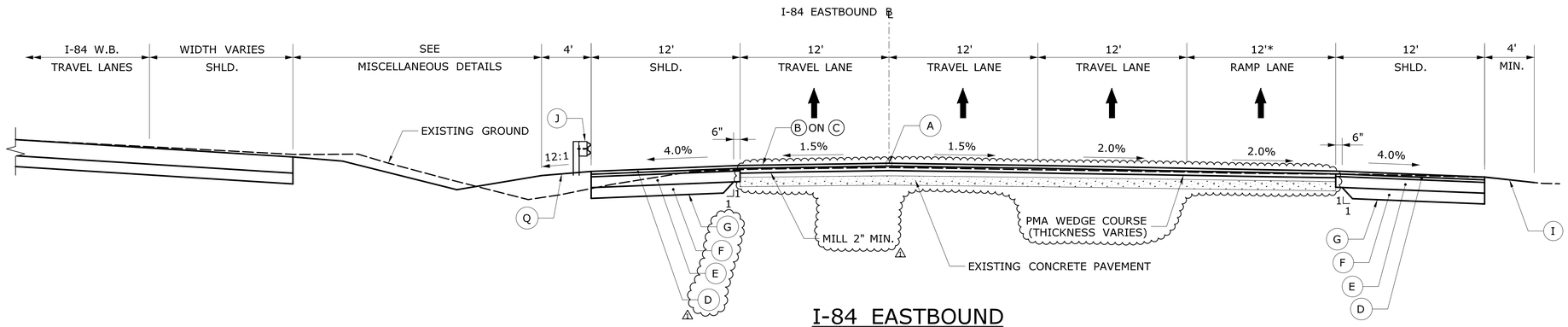
TOWN: **WEST HARTFORD**

DRAWING TITLE: **I-84 EASTBOUND TYPICAL SECTIONS**

PROJECT NO. **155-171**

DRAWING NO. **TYP-06**

SHEET NO. **03.013.A2**




# I-84 EASTBOUND

## NORMAL SECTION

STA. EB 158+12 TO STA. EB 162+80

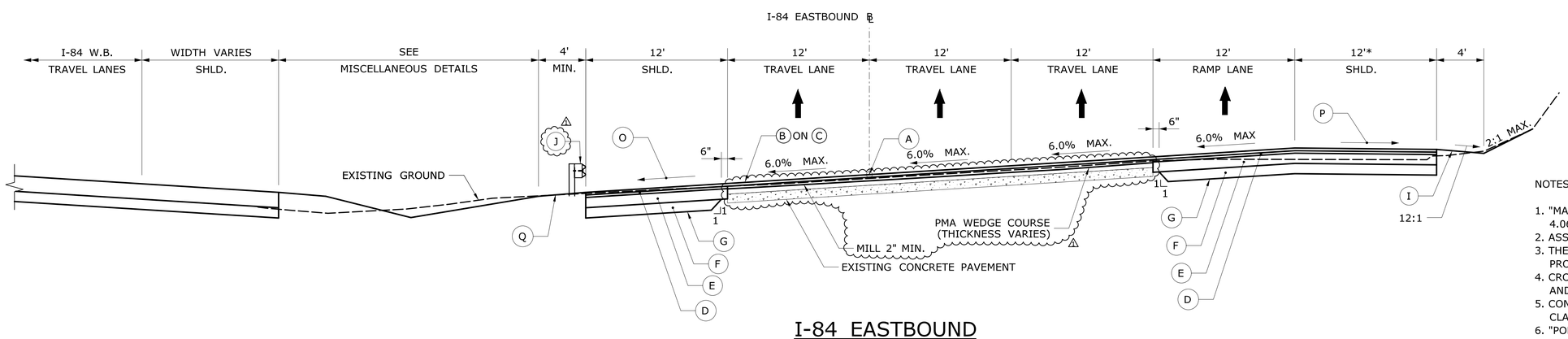
* WIDTH VARIES FROM 12' TO 0' FROM STA. EB 158+50 TO STA. EB 161+50
* NO RAMP LANE FROM STA. EB 161+50 TO STA. EB 162+80

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 7) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |




# I-84 EASTBOUND

## SUPERELEVATED SECTION

STA. EB 155+33 TO STA. EB 158+12

NOTES:

1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
7. IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT. △1

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.014 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-07-A2.dgn

SIGNATURE/BLOCK:

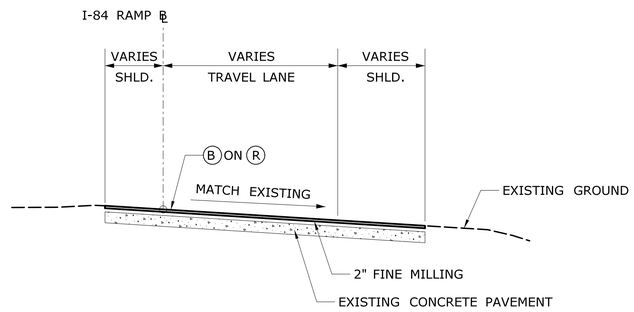
STATE OF CONNECTICUT
MICHAEL W. ROTH
NO. 23708
LICENSED
PROFESSIONAL ENGINEER

PROJECT TITLE:
**SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84**

TOWN: **WEST HARTFORD**

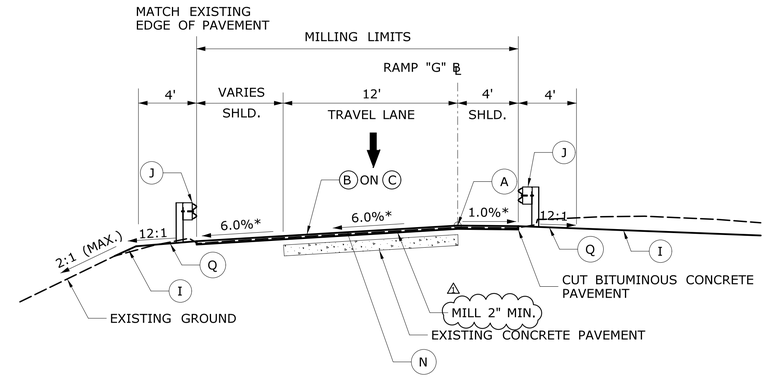
DRAWING TITLE:
**I-84 EASTBOUND TYPICAL SECTIONS**

PROJECT NO. **155-171**
DRAWING NO. **TYP-07**
SHEET NO. **03.014.A2**




## 2" MILL AND OVERLAY

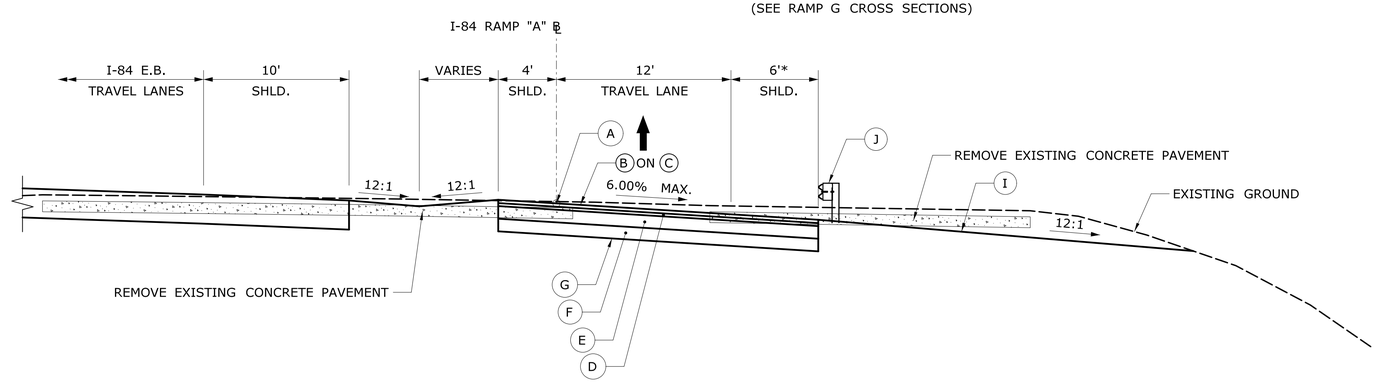
RAMPS B,D,F, AND G




## RAMP "G"

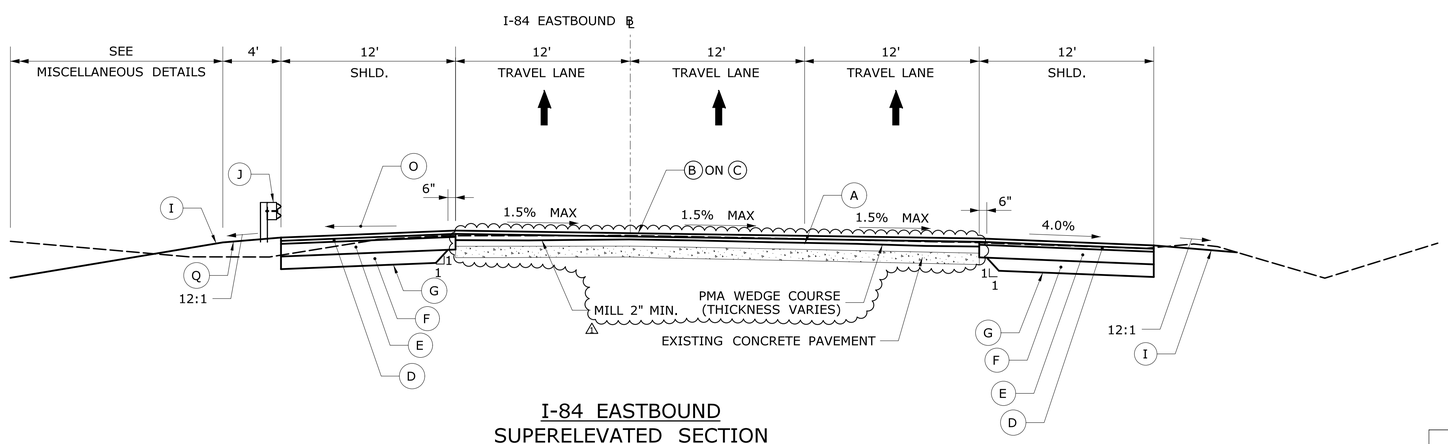
STA. G 6+10 TO STA. G 11+70

* SUPERELEVATION AND SHOULDER TRANSITION TO EXISTING OCCURS FROM STA. G 10+90 TO STA. G 11+70 (SEE RAMP G CROSS SECTIONS)




## RAMP "A"

* SHOULDER VARIES FROM 6' TO 10' FROM STA. 11+50 TO STA. 14+50




## I-84 EASTBOUND
## SUPERELEVATED SECTION

STA. STA. 162+80 TO STA. 165+00

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3) △1
- (E) MINIMUM 10" PMA S1.0 (TRAFFIC LEVEL 3) (SEE NOTE 10) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

NOTES:

1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
3. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
4. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
5. CONCRETE CAP TO BE PAID FOR UNDER ITEM NO. 0601733.40 - CLASS PCC03340 CONCRETE.
6. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
7. SEE CROSS SECTIONS AND GRADING PLAN FOR PAINTED GORE AREA.
8. SEE ROADWAY PLANS FOR LIMITS OF FULL DEPTH PAVEMENT RECONSTRUCTION FOR RAMP SHOULDERS. THE PROPOSED FULL DEPTH PAVEMENT STRUCTURE SHALL BE THE SAME AS SHOWN FOR I-84 WESTBOUND.
9. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.
10. IN AREAS OF FULL DEPTH RECONSTRUCTION WHERE FINAL PAVEMENT GRADE IS BEING RAISED MORE THAN 10", PLACE PMA S1.0 TRAFFIC LEVEL 3 IN MULTIPLE 3"-5" LIFTS UNTIL THE BOTTOM OF PMA S1.0 ROUGHLY MATCHES TOP OF EXISTING CONCRETE PAVEMENT. △1

**ADDENDUM NO. 2**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| △1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.015 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-08-A2.dgn

SIGNATURE/BLOCK:

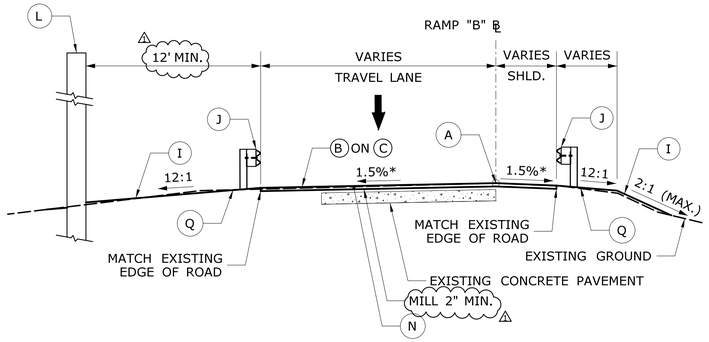
STATE OF CONNECTICUT
MICHAEL W. DRUMM
No. 28758
LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:
**SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84**

TOWN: **WEST HARTFORD**

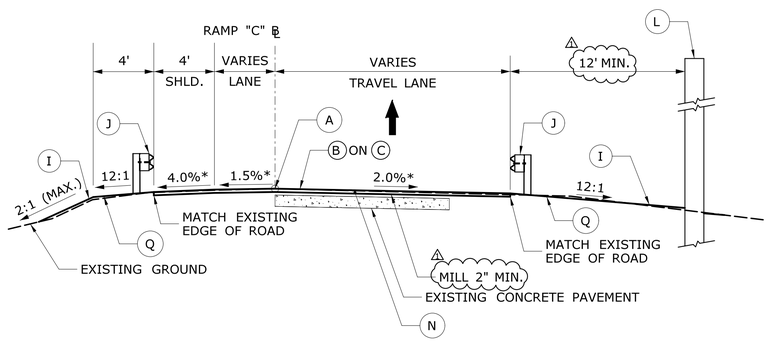
DRAWING TITLE: **I-84 EASTBOUND & RAMP TYPICAL SECTIONS**

PROJECT NO. **155-171**
DRAWING NO. **TYP-08**
SHEET NO. **03.015.A2**



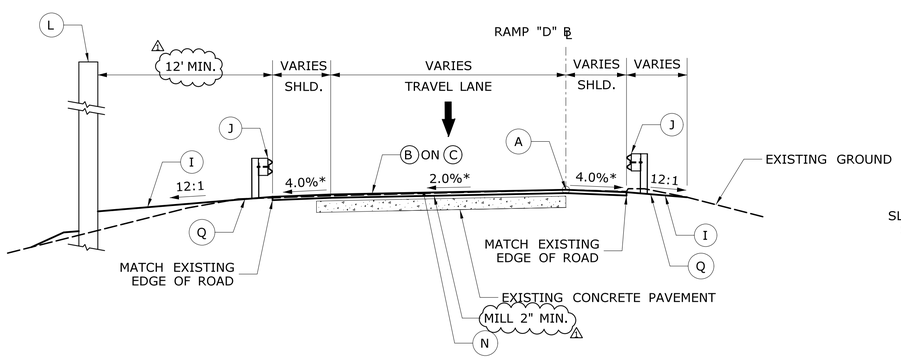

## RAMP "B"

STA. B 14+50 TO STA. B 18+70
* SEE RAMP CROSS SECTIONS FOR VARYING CROSS SLOPES



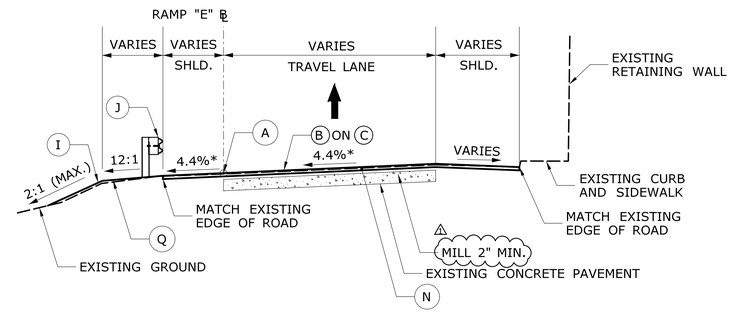

## RAMP "C"

STA. C 36+83 TO STA. C 44+70
* SEE RAMP CROSS SECTIONS FOR VARYING CROSS SLOPES



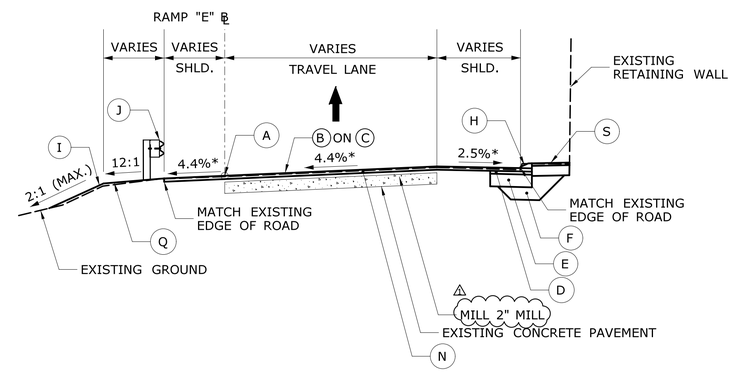

## RAMP "D"

STA. D 39+75 TO STA. D 46+00
* SEE RAMP CROSS SECTIONS FOR VARYING CROSS SLOPES



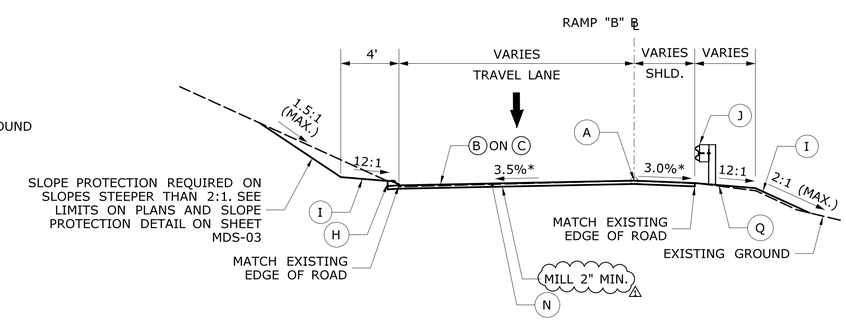

## RAMP "E"

STA. E 45+33 TO STA. E 48+65
* SEE RAMP CROSS SECTIONS FOR VARYING CROSS SLOPES




## RAMP "E" WITH RECONSTRUCTED SIDEWALK

STA. E 48+65 TO STA. E 51+57
* SEE RAMP CROSS SECTIONS FOR VARYING CROSS SLOPES




## RAMP "F"

STA. F 48+50 TO STA. F 54+97
* SEE RAMP CROSS SECTIONS FOR VARYING CROSS SLOPES

## LEGEND FOR TYPICAL SECTIONS

- (A) POINT OF APPLIED GRADE AND AXIS OF ROTATION
- (B) 5/8" ULTRA-THIN BONDED PMA PAVEMENT (TYPE B)
- (C) 2" PMA S0.5 (TRAFFIC LEVEL 3)
- (D) 2 3/8" PMA S0.5 (TRAFFIC LEVEL 3)
- (E) 10" PMA S1.0 (TRAFFIC LEVEL 3) (PLACED IN TWO EQUAL LIFTS)
- (F) 10" PROCESSED AGGREGATE BASE
- (G) FORMATION OF SUBGRADE
- (H) BITUMINOUS CONCRETE PARK CURBING (B.C.P.C.)
- (I) 4" TOPSOIL AND TURF ESTABLISHMENT
- (J) METAL BEAM RAIL (R-B MASH)
- (K) F-SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")
- (L) NOISE BARRIER WALL (SEE NOISE BARRIER SUBSET)
- (M) CONCRETE CAP
- (N) PMA WEDGE COURSE (SEE CHART BELOW)
- (O) MINIMUM CROSS SLOPE 4% OR CONTINUE ROADWAY CROSS SLOPE IF GREATER
- (P) SEE SHOULDER TREATMENT - HIGH SIDE OF BANK DETAIL (SEE SHEET TYP-01)
- (Q) 6" PROCESSED AGGREGATE (AS NEEDED FOR METAL BEAM RAIL)
- (R) 1 3/8" PMA S0.375 (TRAFFIC LEVEL 3)
- (S) BITUMINOUS CONCRETE SIDEWALK

## WEDGE COURSE CHART

| MATERIAL | THICKNESS RANGE |
|---|---|
| PMA S0.375 | 0.0 - 2.0" PER LIFT |
| PMA S0.5 | 1.5 - 2.5" PER LIFT |
| PMA S1.0 | 3.0 - 5.0" PER LIFT |

NOTES:

1. "MATERIAL FOR TACK COAT" SHALL BE APPLIED AS PER SECTION 4.06 - BITUMINOUS CONCRETE
2. APPROXIMATE LIMITS OF EXISTING REINFORCED CONCRETE PAVEMENT AT RAMP G ARE STA. G 6+10 TO STA. G 9+30.
3. ASSUMED CONCRETE PAVEMENT OVERLAY THICKNESS IS 5".
4. ASSUMED EDGE OF REINFORCED CONCRETE PAVEMENT IS LOCATED ALONG THE EXISTING PAINTED SHOULDER LINE.
5. THE CONTRACTOR SHALL USE PMA WEDGE COURSE TO MEET THE PROPOSED PROFILE GRADES AND CROSS-SLOPES.
6. CROSS-SLOPES VARY IN SUPERELEVATION TRANSITION AREAS AND SHALL CONFORM TO BANKS SHOWN ON CROSS SECTIONS.
7. SEE CROSS SECTIONS AND GRADING PLAN FOR PAINTED GORE AREA.
8. SEE ROADWAY PLANS FOR LIMITS OF FULL DEPTH PAVEMENT RECONSTRUCTION FOR RAMP SHOULDERS. THE PROPOSED FULL DEPTH PAVEMENT STRUCTURE SHALL BE THE SAME AS SHOWN FOR I-84 WESTBOUND.
9. "POLYMER MODIFIED ASPHALT EMULSION (TYPE 1)" SHALL BE APPLIED AS PER SPECIAL PROVISION ITEM NO. 0406192A.

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| 1 | 12/03/19 | ADD. #2-ADDED MIN. MILLING DEPTH AND PMA WEDGE | 03.016 |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/4/2019

DESIGNER/DRAFTER: SB/JE
CHECKED BY: MD/MF
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_155-171_TYP-09-A2.dgn

SIGNATURE/BLOCK:

STATE OF CONNECTICUT · MICHAEL W. DUGAS · No. 28798 · LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:
**SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84**

TOWN: **WEST HARTFORD**

DRAWING TITLE: **I-84 RAMP TYPICAL SECTIONS**

PROJECT NO. **155-171**
DRAWING NO. **TYP-09**
SHEET NO. **03.016.A2**