STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TMSI

PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed

Culvert-Existing
Culvert Proposed

Curbing — Existing — Proposed
Type 1
Type 3
Type 5

Outline of Bodies of Water
Ledge
Buildings

Trees — Conifer — Deciduous
Tree Line
Clearing Limit Line — CLL

Centerline-Existing
Centerline-Proposed — 10+00
Travelway-Existing
Travelway-Proposed
Railroad

Catch Basins — Existing ■ Proposed
Manholes — Existing ● Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch

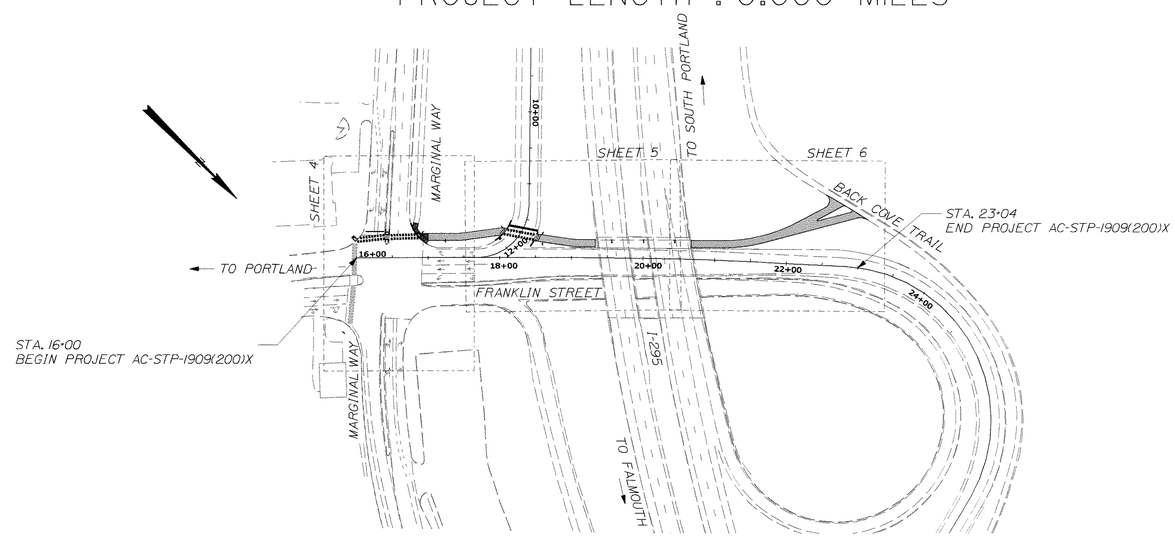
Utility Poles — Existing ◆ Proposed
Fire Hydrants — Existing — Proposed
Existing Water Line — W
Existing San. Sewer
Existing San. Sewer Manhole

Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

PORTLAND
CUMBERLAND
FRANKLIN STREET
AC-STP-1909(200)X
PROJECT LENGTH : 0.000 MILES

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
General Notes & Details	2
Signal Plan	3
Plan	4-6



LAYOUT SCALE

100 0 100 200

Scale in Feet

PROJECT LOCATION:	West side of Franklin Street from Marginal Way approximately 600 LF to Back Cove Trail.
PROGRAM AREA:	Traffic
OUTLINE OF WORK:	Pedestrian / Bike path with crosswalks and signal upgrade.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

	DATE
APPROVED	
COMMISSIONER:	8/23/11
CHIEF ENGINEER:	8/23/11

STATE OF MAINE — JAMES L. EASON — No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
AUGUST 19, 2011	
DATE	

PROJECT INFORMATION

PROGRAM	TRAFFIC
PROJECT MANAGER	S. LANDRY
DESIGNER	A. GODFREY/J. EASON
CONSULTANT	TERRA MAGNA SERVICES, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WIN 19092.00

AC-STP-1909(200)X

PORTLAND
FRANKLIN STREET
TITLE SHEET

SHEET NUMBER
1
OF 6

Filename: ...\HIGHWAY\MSTA\001_Title_001.dgn Division: HIGHWAY Username: jeason Date:8/19/2011

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:

   CENTRAL MAINE POWER COMPANY
   CITY OF PORTLAND
   TIME WARNER CABLE

2. NO UTILITY INVOLVEMENT IS ANTICIPATED.

3. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.203 PAVEMENT BUTT JOINT.

4. GRIND TRANSITION TAPERS AT CATCH BASINS UNDER ITEM 202.203 PAVEMENT BUTT JOINTS, AS DIRECTED BY THE RESIDENT.

5. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT.

6. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.

7. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

8. ALL PAVED WALKS TO BE CONSTRUCTED WITH 12" AGGREGATE BASE COURSE-GRAVEL AND 2" HOT MIX ASPHALT UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

9. PLACE 12 INCHES GRAVEL AND 2 INCHES HOT MIX ASPHALT AROUND CATCH BASINS IN GRASSED AREAS (3' OUTSIDE OF FRAME) AND PAINT WITH ACRYLIC LATEX COLOR FINISH - GREEN. PAYMENT SHALL BE UNDER THE APPLICABLE CONTRACT ITEMS.

10. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
    - o ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
    - o ALL DITCHING AT PIPE ENDS
    - o ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
    - o ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS

11. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO ALLOW FOR PROPOSED PIPE CONNECTIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 603 OR 605.

12. ALL CATCH BASINS TYPE A PLACED ON CIRCULAR CURB TYPE I SHALL HAVE THE CURB INLET CUT THE SAME RADIUS AS ADJACENT CIRCULAR CURB. PAYMENT SHALL BE INCIDENTAL TO ITEM 604

13. IN AREAS WHERE CURB TYPE I WILL BE RESET, THE EXISTING CURB SUITABLE FOR USE AS TERMINAL ENDS SHALL BE CUT IF NECESSARY AND UTILIZED AS SUCH AND PAID FOR UNDER ITEM 609.38 (RESET CURB TYPE I).

14. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL SLOPES.

15. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES UNLESS OTHERWISE NOTED OR DIRECTED.

16. ACRYLIC LATEX COLOR FINISH GREEN (ITEM 658.20) SHALL BE PLACED ON ALL PAVED ISLANDS.

17. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

18. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

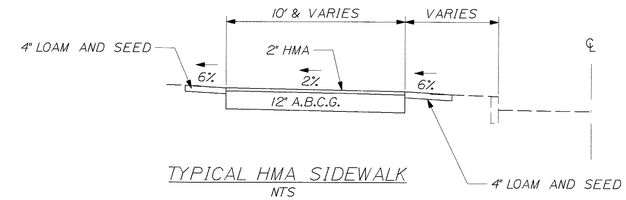
19. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

20. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

21. STATIONS REFERENCED ARE APPROXIMATE.

22. NO SURVEY WAS PERFORMED FOR THIS PROJECT. TOPOGRAPHY AND BASELINE STATIONING ARE BASED ON SURVEY FROM MDOT PIN 15634 AND GENERAL FIELD REVIEW.

23. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.



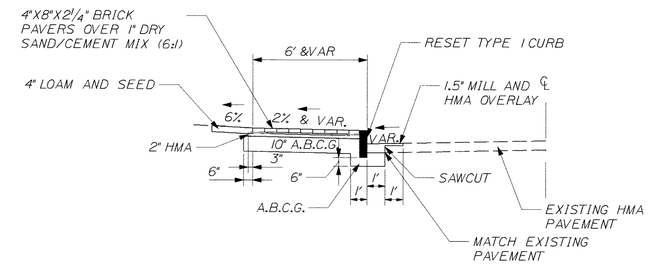
TYPICAL HMA SIDEWALK
NTS

STA. 17+00 TO STA. 18+10 LT.
STA. 18+47 TO STA. 19+33 LT.
STA. 20+66 TO STA. 23+04 LT.

A.B.C.G. = AGGREGATE BASE COURE GRAVEL

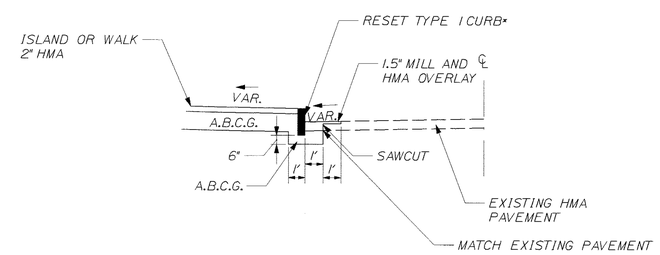
NOTES:

1. SET BORDER BRICK PAVER COURSE IN WET CEMENT MORTAR OR USE APPROVED EDGE RAIL
2. LAY BRICK PAVERS FLAT
3. SWEEP CLEAN SAND INTO PAVER JOINTS.



BRICK SIDEWALK WITH BITUMINOUS BASE
NTS

A.B.C.G. = AGGREGATE BASE COURE GRAVEL



* TYPE 5 CURB AT RAISED ISLAND
STA. 16+40 TO STA. 16+46 LT.

TYPICAL CURB RESET AT WALK/ISLAND INTERFACE
NTS

A.B.C.G. = AGGREGATE BASE COURE GRAVEL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AC-STP-1909(200)X

WIN 19092.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
R.E. NUMBER
AUGUST 19, 2011
DATE

PROJ. MANAGER	S. LANDRY	BY	DATE
DESIGN-DETAILED	JLE	JLE	8-11
CHECKED-REVIEWED	ALC	MSM	8-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

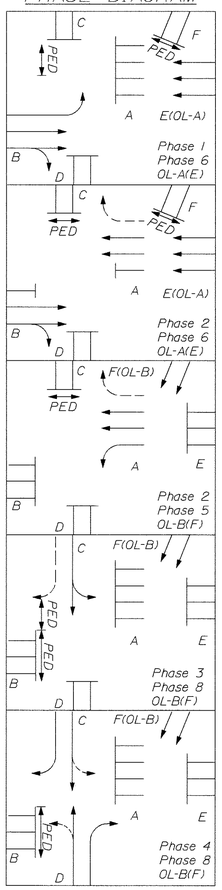
PORTLAND
FRANKLIN STREET

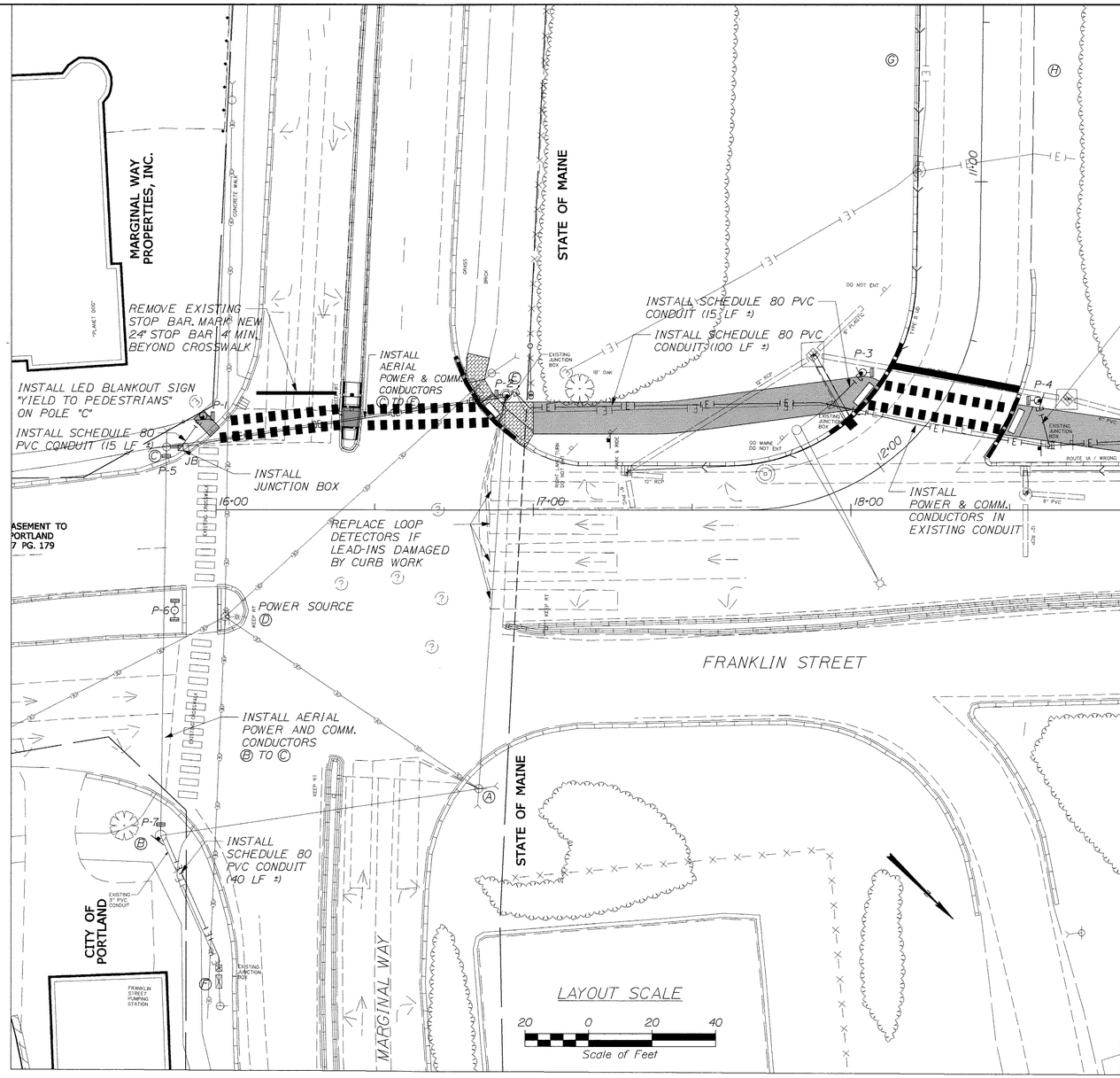
GENERAL NOTES & DETAILS

SHEET NUMBER
2
OF 6

Filename: ...\HIGHWAY\MSTA\002_Notes_01.dgn Division: HIGHWAY Username: jeason Date:8/19/2011

PHASE DIAGRAM





LEGEND

- EXISTING CABINET WITH CONTROLLER
- EXISTING MAST ARM POLE
- EXISTING WOODEN POLE
- EXISTING STRAIN POLE
- EXISTING SPAN WIRE
- UNDERGROUND DUCT
- OVERHEAD ELECTRIC
- PROPOSED PEDESTAL WITH SIGNAL
- PROPOSED JUNCTION BOX
- EXISTING JUNCTION BOX

Ⓐ EXISTING WOOD POLE WITH METER AND ELECTRICAL PANEL.

Ⓑ EXISTING STEEL STRAIN POLE AND FOUNDATION.

Ⓒ EXISTING WOOD SIGNAL POLE. INSTALL POLE RISERS. INSTALL LED BLANKOUT SIGN WITH LEGEND "YIELD TO PEDESTRIANS". ACTIVATED IN PHASE 2. ORIENT FOR E.B. LANES. ACTIVATE ONLY BY PEDESTRIAN CALL.

Ⓓ EXISTING UTILITY POLE WITH TRANSFORMER (POWER SOURCE).

Ⓔ EXISTING STEEL STRAIN POLE AND FOUNDATION.

Ⓕ EXISTING GROUND-MOUNTED CONTROLLER CABINET.

Ⓖ INSTALL 30"X30" W11-15 SIGN 175'± IN ADVANCE OF CROSSWALK, ON BACK OF "WRONG WAY" SIGN.

Ⓗ INSTALL 30"X30" W11-15 SIGN 175'± IN ADVANCE OF CROSSWALK, ON BACK OF "WRONG WAY" SIGN.

P-1 INSTALL PEDESTAL POLE ON 18" FOUNDATION, COUNTDOWN PEDESTRIAN HEAD WITH AUDIBLE/TACTILE FEATURES, PEDESTRIAN DIRECTIONAL PUSHBUTTON ASSEMBLIES (2), AND R10-3i SIGNS (2) WITH LEGEND "MARGINAL WAY".

P-2 INSTALL COUNTDOWN PEDESTRIAN HEAD WITH AUDIBLE/TACTILE FEATURES, PEDESTRIAN DIRECTIONAL PUSHBUTTON ASSEMBLIES (2), AND R10-3i SIGNS (2) WITH LEGEND "MARGINAL WAY" ON EXISTING POLE "E".

P-3 INSTALL PEDESTAL POLE ON 18" FOUNDATION, COUNTDOWN PEDESTRIAN HEAD WITH AUDIBLE/TACTILE FEATURES, PEDESTRIAN DIRECTIONAL PUSHBUTTON ASSEMBLY, AND R10-3e (RIGHT) SIGN.

P-4 INSTALL PEDESTAL POLE ON 18" FOUNDATION, COUNTDOWN PEDESTRIAN HEAD WITH AUDIBLE/TACTILE FEATURES, PEDESTRIAN DIRECTIONAL PUSHBUTTON ASSEMBLY, AND R10-3e (LEFT) SIGN.

P-5 EXISTING PEDESTRIAN SIGNAL.

P-6 EXISTING PEDESTRIAN SIGNAL.

P-7 EXISTING PEDESTRIAN SIGNAL.

SIGNAL TIMING

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 8
MIN GREEN	3	10	3	5	3	10	15
EXTENSION	2.0	3.0	2.0	2.0	2.0	3.0	2.0
MAX 1	20	45	20	20	20	45	20
MAX 2	25	55	14	15	15	55	15
VEH CLEAR	3.0	3.0	3.0	3.0	3.0	3.0	3.0
RED CLEAR	2.0	2.0	1.0	2.0	2.0	2.0	2.0
WALK	7	7	7	7	7	7	7
PED CLEAR	13	26	16	16	16	26	16
RECALL	OFF	SOFT	OFF	OFF	OFF	SOFT	OFF

IN THE EVENT OF CONFLICT OR MALFUNCTION, PHASES 2 AND 6 SHALL FLASH YELLOW AND ALL OTHER PHASES SHALL FLASH RED.

VEHICLE DETECTOR SCHEDULE

DETECTOR					AMPLIFIER RACK		
STREET	DIRECTION	LANE	SIZE	PHASE	TYPE	SLOT NO.	CHANNEL
FRANKLIN	EB	LEFT	6x40	5	PRESENCE	2	2
FRANKLIN	EB	THROUGH	6x40	2	PRESENCE	1	1
FRANKLIN	EB	THROUGH	6x40	2	PRESENCE	1	1
FRANKLIN	EB	RIGHT	6x40	2	PRESENCE	1	1

NOTE:

SIGNAL CONTROLLER SHALL BE MODIFIED TO INCORPORATE NEW PEDESTRIAN FEATURES. ITEM 643.71 SHALL BE CONSIDERED TO COVER ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR ADDITION OF PEDESTRIAN FEATURES OTHER THAN MAY BE PAID DIRECTLY UNDER OTHER CONTRACT ITEMS.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AC-STP-1909(200)X

WIN 19092.00

HIGHWAY PLANS

STATE OF MAINE ALBERT L. GOSPER, JR. No. 4226 LICENSED PROFESSIONAL ENGINEER

SIGNATURE

4226
P.E. NUMBER

AUGUST 19, 2011
DATE

	S.L.MARK	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	ALG	JLE	8-11
CHECKED-REVIEWED	ALG		8-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND FRANKLIN STREET SIGNAL PLAN

SHEET NUMBER

3

OF 6

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

NOTE: STATIONS AND OFFSETS ARE APPROXIMATE ONLY.

CITY OF PORTLAND

FRANKLIN STREET PUMPING STATION

EXISTING 3" PVC CONDUIT

"PLANET DOG"

MARGINAL WAY PROPERTIES, INC.

INSTALL LED BLANK OUT SIGN "YIELD TO PEDESTRIANS"

MOUNT R9-5 SIGN TO PROPOSED PEDESTALPOLE "USE PED SIGNAL" 12" X 18"

REMOVE AND REPLACE CONCRETE SLAB (28± SF) AND DETECTABLE WARNING (2'x4')

EXISTING CROSSWALK

EXISTING CROSSWALK

CONCRETE WALK

MOUNT R9-5 SIGN TO EXISTING SIGNAL POLE "USE PED SIGNAL" 12" X 18" MAINTAIN MIN. 7' VERTICAL CLEARANCE (TYP.).

EXISTING JUNCTION BOX

KEEP RT

POB = STA. 16+00.00 = STA. 16+00.00 PROJ. /5634.00

16+00

8' SHARED USE PATHWAY 2'X3' WHITE BARS 4' OC (TYP.)

24" STOP BAR

MARGINAL WAY N.B.

MARGINAL WAY N.B.

KEEP RT

REMOVE, SAWCUT & RESET EXISTING CURB. REPAVE AREA WITH 2" HMA. (TYPICAL)

STA. 16+43.8, 35.5' LT. REMOVE & RESET W6-1 SIGN

APPROX. EXISTING JOINT

EXISTING MEDIAN

EXISTING 3' RADIUS CURB TO REMAIN (9 L.F.±)

SAWCUT (TYP.)

MILL LIMIT (TYP.)

MARGINAL WAY S.B.

MARGINAL WAY S.B.

N44°01'47.1"W

NEW 8' TERMINAL END

RESET 9' TYPE 1 CURB

REMOVE EXISTING BRICK WALK TO TOP OF EXISTING CURB TERMINAL. REBUILD BRICK SIDEWALK RAMP AND APPROACHES. (EST. 260 SF)

DETECTABLE WARNING FIELD (2'X6')

RESET 8' FLUSH CURB

GRASS

BRICK

MOUNT R9-5 SIGN TO EXISTING SIGNAL POLE "USE PED SIGNAL" 12"X18"

NEW 8' TERMINAL END

STATE OF MAINE

STATE OF MAINE

17+00

KEEP RT

RIGHT LANE TURN DO NOT ENT

EXISTING JUNCTION BOX

REMOVE AND REPLACE 16 LF OF 6' CHAIN LINK FENCE.

18" OAK

TRIM LIMBS TO 10' ABOVE FINISHED GRADE.

PARK & RIDE

6" PVC

STA. 17+24, 22.0' LT. DEMOUNT AND REINSTALL SIGN (1) MAINTAIN MINIMUM 8' VERTICAL CLEARANCE

STA. 17+35.4 134.0' LT

34.0'± +64.5

12" RCP

R 100'

FRANKLIN STREET

HMA WALK

ITEM 608.08 - REINFORCED CONCRETE SIDEWALK

STA. 16+00 LT - 3 SY

ITEM 608.15 - BRICK SIDEWALK WITH BIT. BASE

STA. 16+78 LT. TO STA. 17+00 LT. - 30 SY

HMA WALK

STA. 17+00. LT. TO STA. 18+10. LT

ITEM 608.26 - CURB RAMP DETECTABLE WARNING FIELD

STA. 16+00. LT. - 8 SF
STA. 16+87. LT. - 12 SF

ITEM 609.38 - RESET CURB TYPE 1

STA. 16+74.9, 48.3' LT. TO STA. 16+78.2, 39.9' LT. 9 LF
STA. 16+82.4, 33.2' LT. TO STA. 16+87.7, 27.2' LT. 8 LF (FLUSH)

ITEM 609.40 - RESET CURB TYPE 5

STA. 16+39.6, 22.4' LT. TO STA. 16+44.4, 22.2' LT. 13 LF
STA. 16+40.2, 40.4' LT. TO STA. 16+45.9, 40.1' LT. 22 LF

ITEM 609.238 - TERMINAL CURB TYPE 1-8'

STA. 16+78.2, 39.9' LT. TO STA. 16+82.4, 33.2' LT. 1 EA
STA. 16+87.7, 27.2' LT TO STA. 16+93.8, 22.2' LT. 1 EA

ITEM 607.17 - CHAIN LINK FENCE 6'

STA. 17+00± LT - 16 LF

LAYOUT SCALE

10 0 10 20

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AC-STP-1909(200)X

WIN 19092.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
AUGUST 19, 2011
DATE

	BY	DATE
S. LANDRY		
PROJ. MANAGER		
DESIGN-DETAILED	JLE	8-11
CHECKED-REVIEWED	ALG	8-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PORTLAND
FRANKLIN STREET

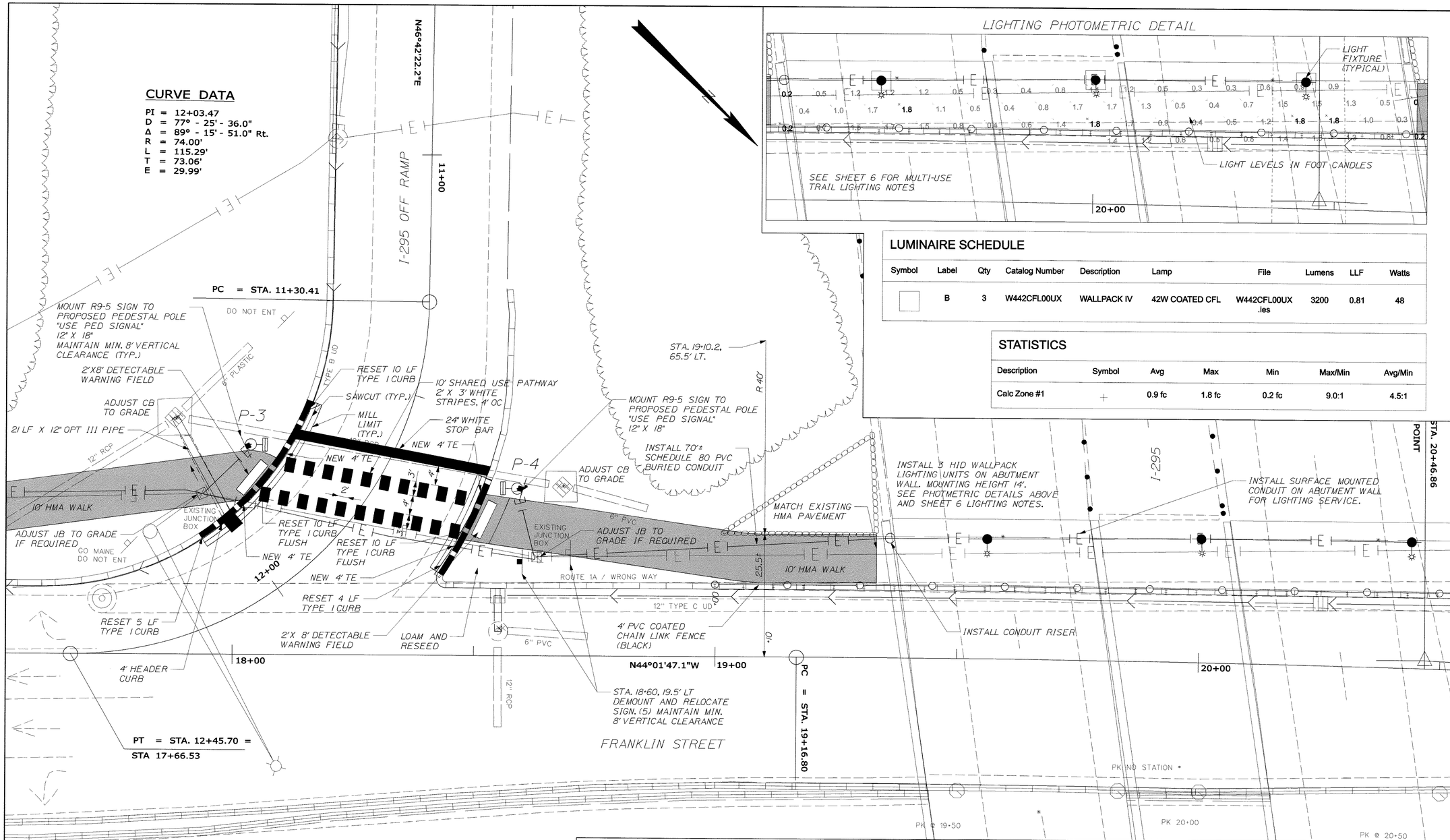
PLANS

SHEET NUMBER

4

OF 6

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	B	3	W442CFL00UX	WALLPACK IV	42W COATED CFL	W442CFL00UX .ies	3200	0.81	48

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.9 fc	1.8 fc	0.2 fc	9.0:1	4.5:1

LAYOUT SCALE

10 0 10 20
Scale of Feet

NOTE

ADJUSTMENT OF JUNCTION BOXES TO GRADE WILL BE INCIDENTAL TO CONTRACT.

ITEM 603.159 - 12" CULVERT PIPE - OPT III

STA. 17+89.1, 47.3' LT TO STA. 17+99.0, 29.1' LT - 21 LF

ITEM 604.18 - ADJUST CB TO GRADE

STA. 17+88.0, 49' LT. - 16 SF
STA. 18+68.3, 35' LT. - 16 SF

ITEM 604.072 - CATCH BASIN TYPE AI-C

STA. 18+00.0, 27.3' LT.

ITEM 608.26 - CURB RAMP DETECTABLE WARNING FIELD

STA. 18+04, LT.
STA. 18+51, LT.

ITEM 609.234 - TERMINAL CURB TYPE I - 4'

STA. 11+73.2, 19.1' RT. TO STA. 11+78.6, 18.9' RT.
STA. 11+97.2, 17.8' RT. TO STA. 12+02.4, 17.5' RT.
STA. 11+59.7, 19.7' LT. TO STA. 11+62.9, 19.9' LT.
STA. 11+70.7, 20.5' LT. TO STA. 11+73.8, 20.7' LT.

HMA WALK

STA. 18+47, LT. TO STA. 19+33, LT

ITEM 607.163 - CHAIN LINK FENCE - 4' PVC COATED

STA. 19+00.0, 15' LT TO STA. 23+08, 65' LT - 424 LF

ITEM 609.38 - RESET CURB TYPE I

STA. 11+59.7, 19.6' RT. TO STA. 11+73.2, 19.1' RT. 10 LF
STA. 11+78.5, 18.9' RT. TO STA. 11+97.2, 17.8' RT. 10 LF FLUSH
STA. 12+02.4, 17.5' RT. TO STA. 12+08.9, 17.1' RT. 5 LF
STA. 11+62.9, 19.9' LT. TO STA. 11+70.7, 20.5' LT. 10 LF FLUSH
STA. 11+73.8, 20.7 LT. TO STA. 11+77.0, 21.0' LT 4 LF

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AC-STP-1909(200)X

WIN 19092.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
AUGUST 19, 2011
DATE

PROJ. MANAGER	S. LANDRY		BY
DESIGN DETAILED	JLE		MSM
CHECKED REVIEWED	ALC		
DESIGN DETAILED2			
DESIGN DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND FRANKLIN STREET

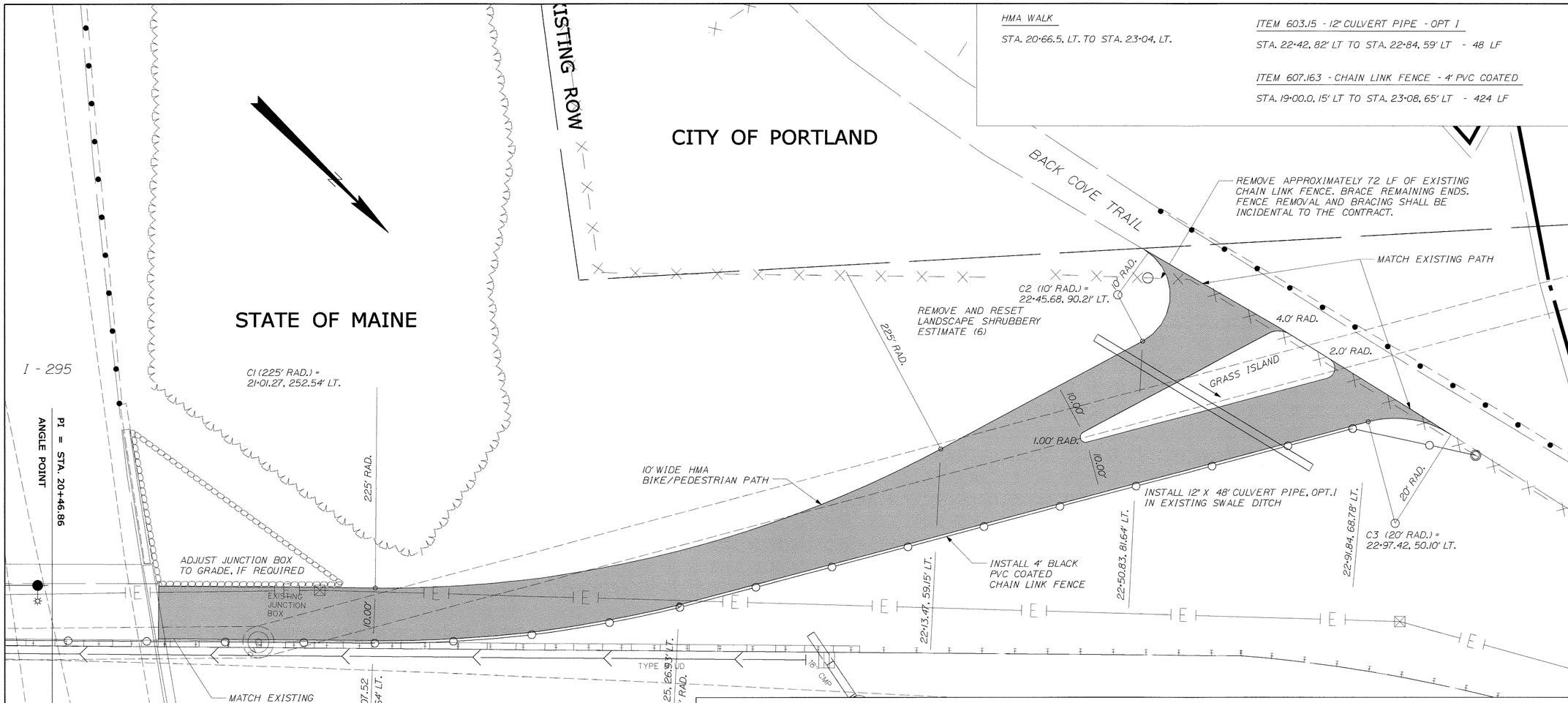
PLANS

SHEET NUMBER

5

OF 6

Filename: $file$ Division: $wkgroup$ Username: $user$ Date: $date$



CURVE DATA #1
PI = 20+46.89
D = 1°08'45.3"
Δ = 2°58'50.6" Rt.
R = 5000.00'
L = 260.12'
T = 130.09'
E = 1.69'

GENERAL NOTES - MULTI-USE TRAIL LIGHTING

1. SCOPE OF WORK - INSTALL MULTI-USE TRAIL LIGHTING AS SHOWN ON THESE PLANS. INSTALL CONDUIT AND HID WALLPACK LUMINAIRES ON EXISTING BRIDGE ABUTMENT WALL.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO APPLICABLE PROVISIONS OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DETAILS, NATIONAL ELECTRICAL CODE (NEC) AND REQUIREMENTS OF CENTRAL MAINE POWER COMPANY.
3. THE CONTRACTOR SHALL FIELD VERIFY LIGHTING LOCATIONS TO AVOID STRUCTURAL FEATURES THAT WOULD CONFLICT WITH PROPER INSTALLATION OF LIGHTING.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ENSURE AWARENESS OF SITE CONDITIONS THAT COULD AFFECT THE BID.
5. LOCATIONS SHOWN FOR LIGHTING RELATED ITEMS ARE APPROXIMATE AND MAY BE ADJUSTED BY THE RESIDENT IN THE FIELD.
6. LIGHTING FIXTURES SHALL BE EQUIPPED WITH POLYCARBONATE SHIELDS, TAMPER RESISTANT SCREWS AND NEMA PHOTOELECTRIC TIMER CONTROL.
7. ALL FIXTURES SHALL BE DOUBLE FUSED AND HAVE NEMA DECAL. ALL FIXTURES SHALL HAVE GRAY POLYESTER POWDER-COATED SURFACE.
8. THE LIGHTING LAYOUT WAS DONE USING THREE HOLOPHANE WALLPACK IV NON-CUTOFF FIXTURES WITH 42-WATT COATED COMPACT FLUORESCENT LAMPS, IES TYPE IV VERY SHORT DISTRIBUTION. CATALOG NUMBER W442CFLOOUX. ASSUMED MOUNTING HEIGHT 14.0'.

   IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL PROVIDE DISTRIBUTION AND ILLUMINATION STATISTICS COMPARABLE TO THOSE SHOWN ON THIS PLAN. MAXIMUM ILLUMINATION AT THE NEAR EDGE OF THE FRANKLIN STREET SHOULDER SHALL NOT EXCEED 2.0 FOOTCANDLES.
9. BURIED CONDUIT SHALL BE 2" SCHEDULE 80 PVC OR PREWIRED CONDUIT. ABOVE-GROUND CONDUIT SHALL BE AS REQUIRED BY NEC.
10. WIRE IN CONDUITS SHALL BE CONTINUOUS WITH NO SPLICES OR JUNCTION BOXES BETWEEN POLES OR FIXTURES, EXCEPT AS SHOWN.
11. THE LENGTH OF CONDUIT IS FOR ESTIMATING PURPOSES. THE CONTRACTOR SHALL DETERMINE ACTUAL LENGTH BY FIELD MEASUREMENT BEFORE ORDERING.
12. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 36".
13. WALLPACK LIGHTING AND SURFACE-MOUNTED CONDUIT FOR POWER SERVICE SHALL BE SECURELY ATTACHED TO THE EXISTING I-295 ABUTMENT WALL. FIXTURES SHALL BE UL/CUL LISTED FOR WET LOCATIONS.
14. PAYMENT UNDER ITEM 634.16, HIGHWAY LIGHTING, WILL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PROVIDE A FULLY FUNCTIONING LIGHTING SYSTEM, EXCEPT THOSE ITEMS TO BE PAID UNDER OTHER RELATED BID ITEMS IN THE CONTRACT.

LAYOUT SCALE

10 0 10 20
Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AC-STP-1909(200)X

WIN 19092.00

HIGHWAY PLANS

STATE OF MAINE JAMES L. EASON No. 7960 LICENSED PROFESSIONAL ENGINEER

SIGNATURE 7960
P.E. NUMBER
AUGUST 19, 2011
DATE

		BY	DATE
PROJ. MANAGER	S. LANDRY		
DESIGN-DETAILED	JLE	WCM	8-11
CHECKED-REVIEWED	ALG		8-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND
FRANKLIN STREET

PLANS

SHEET NUMBER
6
OF 6

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$