STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.1

ITEM 20301-1500
REMOVAL OF LIGHT POLE

LOCATION	QUANTITY (each)
26+62.72, 57' RT	1
27+73.63, 57' RT	1
TOTAL	2

ITEM 55220-0000
EXPANSION JOINTS

LOCATION	QUANTITY (lnft)
26+60.75 to 27+85.98	216.9
TOTAL	216.9

ITEM 60901-2900
CURB, STONE, TYPE I, 6-INCH DEPTH

LOCATION	QUANTITY (lnft)
27+35.82 to 27+85.82	110.2
TOTAL	110.2

ITEM 61503-2000
MEDIAN, EXPOSED AGGREGATE CONCRETE

LOCATION	QUANTITY (sqyd)
27+35.82 to 27+85.82	42
TOTAL	42

ITEM 61904-0000
BOLLARD POST

LOCATION	QUANTITY (each)
27+37.54, 42.9' RT	1
27+84.44, 42.9' RT	1
TOTAL	2

ITEM 63602-6020
SYSTEM INSTALLATION, TRAFFIC DETECTOR WIRE LOOP

LOCATION	QUANTITY (each)
27+89.86, 53.5 RT	1
TOTAL	1

ITEM 63610-0100
CONDUIT, 3/4 - INCH, PVC

LOCATION	QUANTITY (lnft)
26+61.82 to 27+18.64	58.0
27+18.64 to 27+73.58	84.6
TOTAL	142.6

ITEM 63610-0400
CONDUIT, 1-INCH, PVC

LOCATION	QUANTITY (lnft)
27+19.64 to 29+95.01	303.3
27+20.47 to 27+89.86	84.9
27+21.14 to 27+80.76	67.6
TOTAL	455.8

ITEM 63610-1600
CONDUIT, 2-INCH, PVC

LOCATION	QUANTITY (lnft)
27+21.64 to 27+39.01	23.4
27+22.64 to 27+39.01	21.3
TOTAL	44.7

ITEM 63620-0000
POLE
(TEMPORARY WITH DISCONNECT SWITCH)

PRELIMINARY

LOCATION	QUANTITY (lnft)
26+61.82, 70' RT	1
TOTAL	1

ITEM 63620-3000
UTILITY BOX, JUNCTION BOX

LOCATION	QUANTITY (each)
27+39.84	2
27+78.09	1
27+79.76	1
27+81.59	1
TOTAL	5

TABULATION OF QUANTITITES

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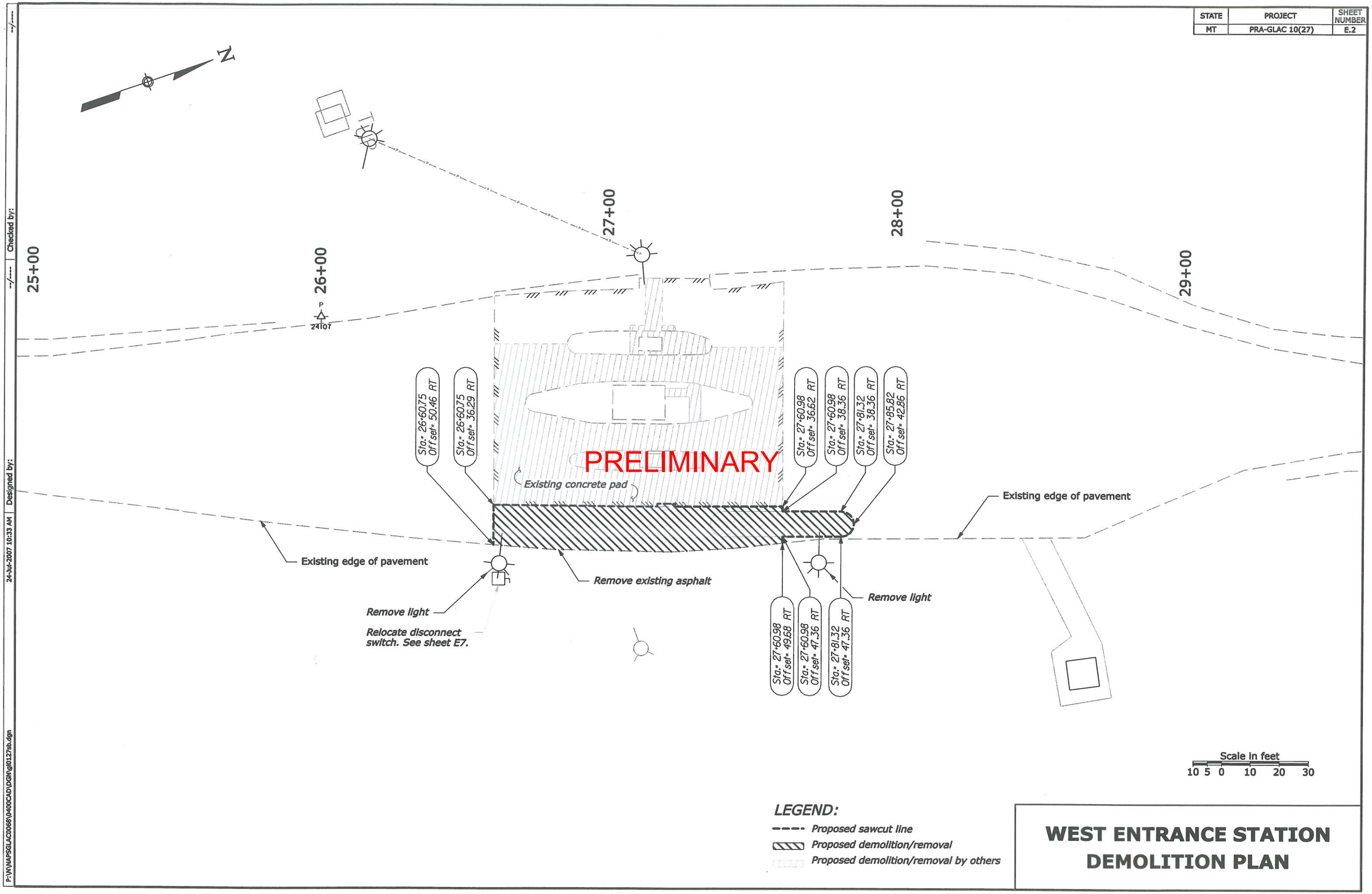

LEGEND:

- Proposed sawcut line
- Proposed demolition/removal
- Proposed demolition/removal by others

WEST ENTRANCE STATION DEMOLITION PLAN

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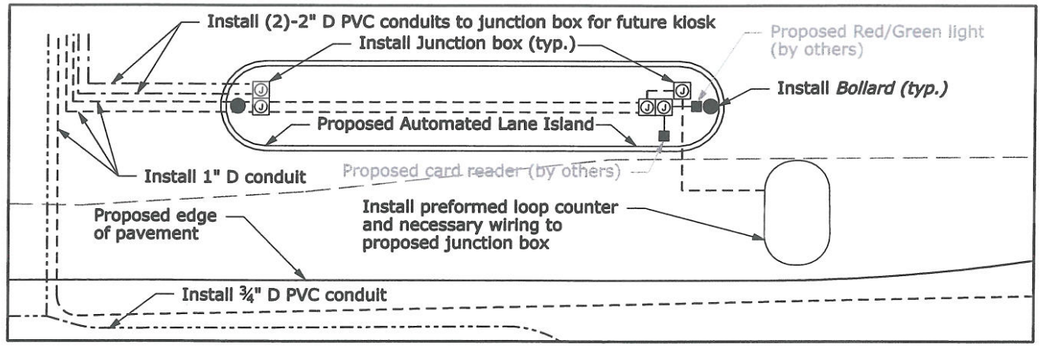
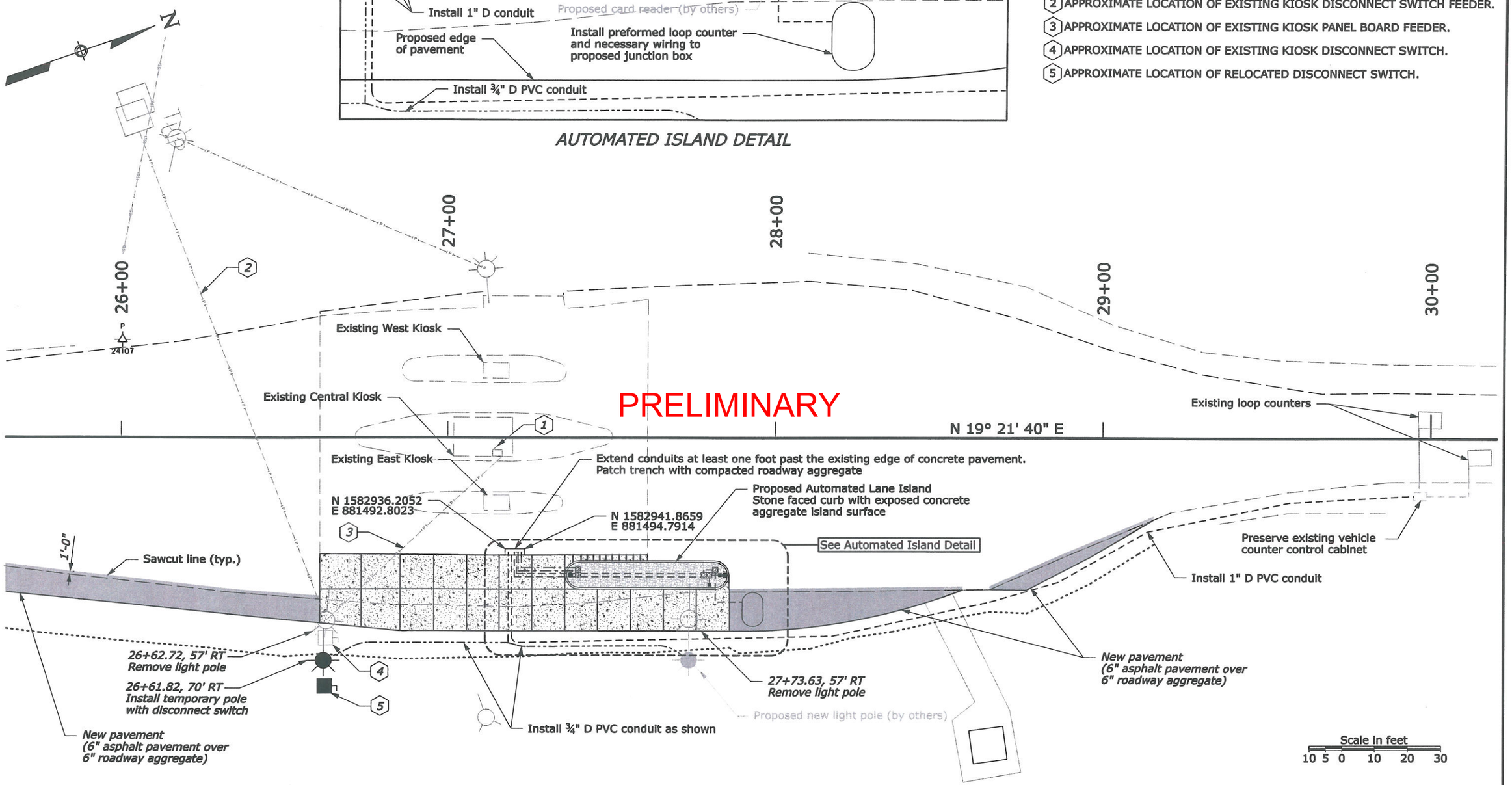
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.3



AUTOMATED ISLAND DETAIL

ELECTRICAL SITE PLAN KEYED NOTES

1. EXISTING KIOSK PANEL BOARD LOCATED IN CLOSET.
2. APPROXIMATE LOCATION OF EXISTING KIOSK DISCONNECT SWITCH FEEDER.
3. APPROXIMATE LOCATION OF EXISTING KIOSK PANEL BOARD FEEDER.
4. APPROXIMATE LOCATION OF EXISTING KIOSK DISCONNECT SWITCH.
5. APPROXIMATE LOCATION OF RELOCATED DISCONNECT SWITCH.



CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
24107	1582843.9090	881390.2600	3198.68

LEGEND:

- ¾" Diamter PVC Conduit
- 1" Diameter PVC Conduit
- 2" Diameter PVC Conduit

WEST ENTRANCE STATION SITE PLAN

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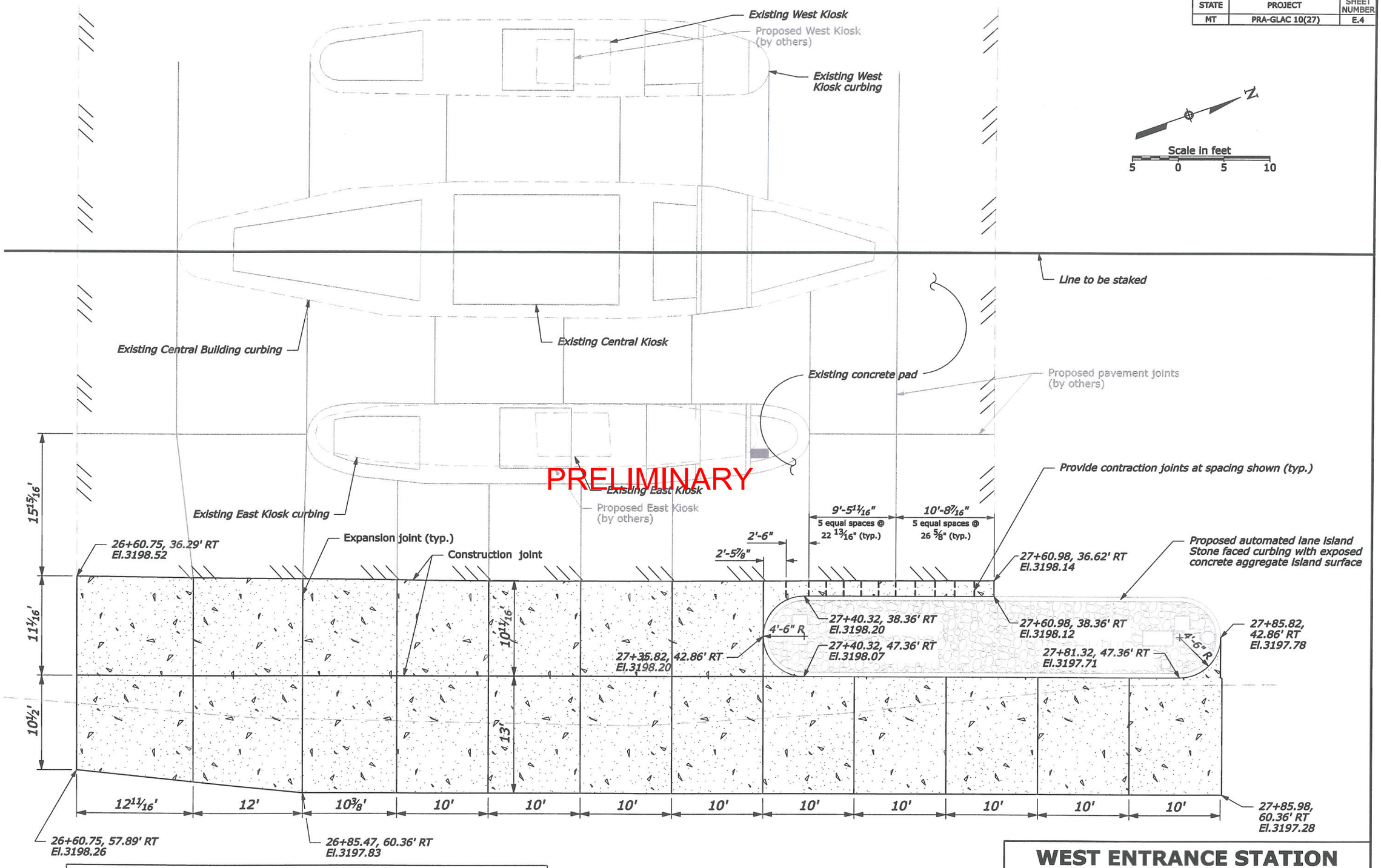
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.4



JOINT QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
55220-0000	Expansion joints	lnft	216.9

Note:
Provide 6" of exposed face stone curbing around automated island above finished concrete pavement elevations provided.
See Sheet E.8 for details

WEST ENTRANCE STATION PANEL & JOINT LAYOUT DETAIL

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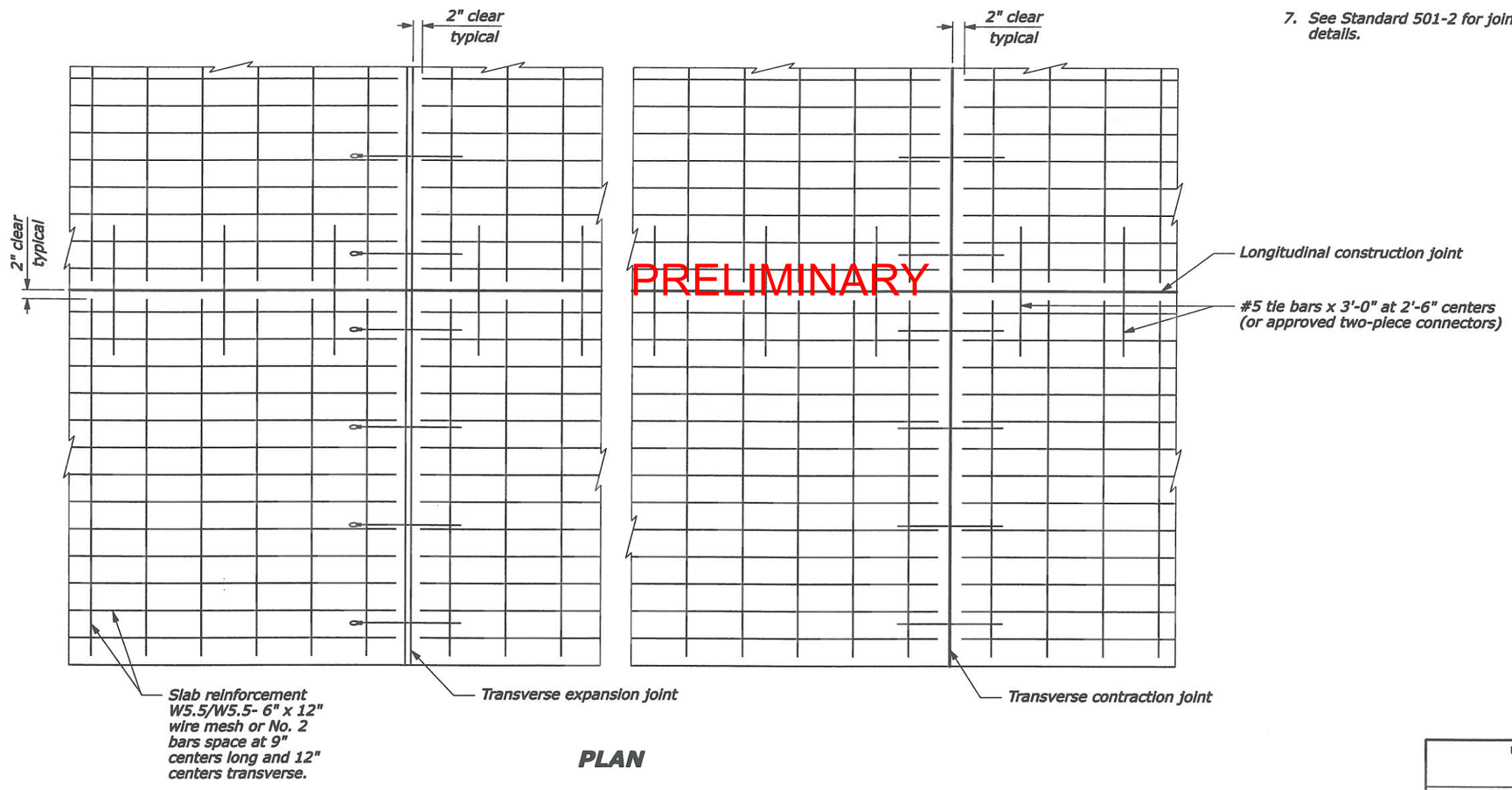
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.5

NOTE:

1. Lap longitudinal reinforcement not less than 13-inches.
2. Lap transverse reinforcement not less than 9-inches.
3. Eliminate all longitudinal and transverse reinforcing steel, wire, or bars where plain portland cement concrete pavement or base is required.
4. Provide the same type of dowel assemblies and tie bars for joints in plain portland cement concrete pavement as shown for joints in reinforced pavement.
5. Space transverse expansion joints at a minimum of 280 feet.
6. Space transverse contraction joints for reinforced concrete pavement at not more than 40 foot intervals and for plain concrete pavement or base at not more than 20 foot intervals.
7. See Standard 501-2 for joint details and joint sealing details.



PLAN

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

PORTLAND CEMENT CONCRETE PAVEMENT

STANDARD APPROVED FOR USE --/----

REVISED:
DRAFT: 9/2004

STANDARD 501-1

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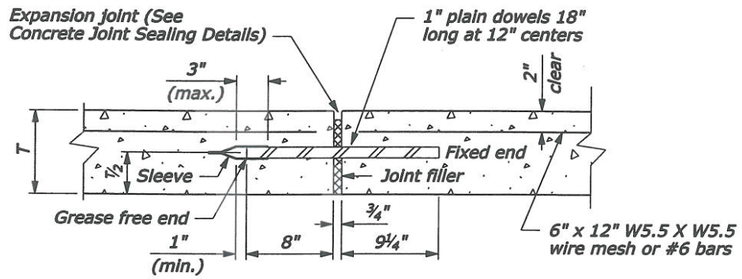
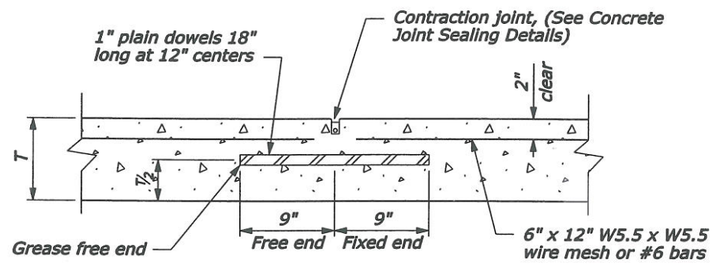
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.6

NOTE:

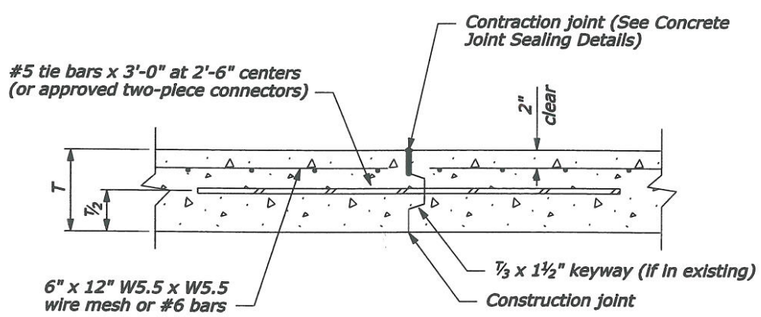
1. Anchor tie bars and dowels into existing concrete pavement with epoxy resin adhesive.
2. Space expansion joints a minimum of 280 feet.
3. W= ⅜" for longitudinal contraction joints and ¾" for transverse expansion and contraction joints field conditions require larger openings.
4. Maintain joint sealant shape factor of 1:1 except that when silicone sealant is used, the width to depth (W:D) shape factor is 1:2.



TRANSVERSE EXPANSION JOINT



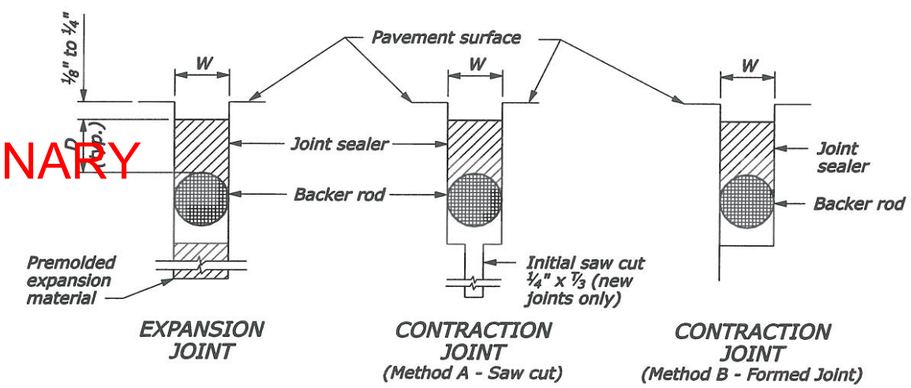
TRANSVERSE CONTRACTION JOINT



LONGITUDINAL CONSTRUCTION JOINT

REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT JOINT DETAILS

PRELIMINARY



REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT JOINT SEALING DETAILS

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

PORTLAND CEMENT CONCRETE PAVEMENT JOINTS

STANDARD APPROVED FOR USE --/----

REVISED:
DRAFT: 9/2004

STANDARD 501-2

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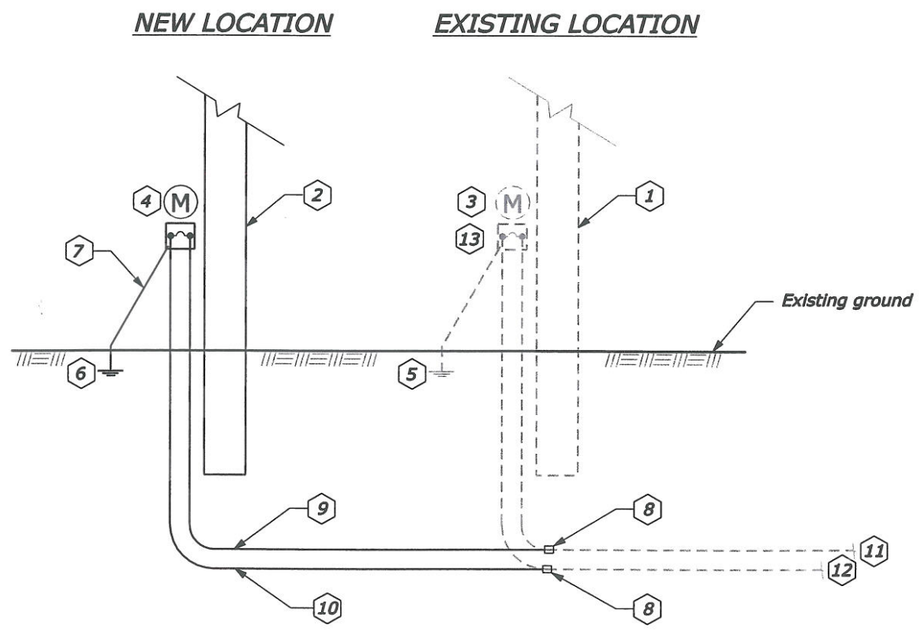
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.7

ELECTRICAL KIOSK DISCONNECT SWITCH RELOCATION DETAIL KEYED NOTES

1. EXISTING DISCONNECT SWITCH MOUNTED TO EXISTING LIGHT POLE TO BE REMOVED.
2. REFER TO SHEET E.2 FOR LOCATION OF TEMPORARY LIGHT POLE. MOUNT RELOCATED DISCONNECT SWITCH TO TEMPORARY POLE.
3. REMOVE AND SALVAGE EXISTING FLATHEAD ELECTRIC CORP. UTILITY METER NUMBER 68214 602. COORDINATE RELOCATION OF METER WITH UTILITY COMPANY.
4. INSTALL METER AND DISCONNECT SWITCH SALVAGED DURING DEMOLITION PHASE.
   MAKE ALL CONNECTIONS REQUIRED TO PROVIDE ELECTRICAL POWER TO EXISTING KIOSK PANEL BOARD.
5. DISCONNECT AND REMOVE EXISTING GROUND CONNECTION.
6. PROVIDE NEW DRIVEN ROD GROUND. CONNECTION TO GROUND ROD SHALL BE NON-REVERSIBLE EXOTHERMIC WELD.
7. PROVIDE NEW GROUND CONNECTION FOR RELOCATED DISCONNECT SWITCH. GROUND CONDUCTOR SHALL BE #6 AWG ALUMINUM.
8. PROVIDE CONDUIT COUPLING FOR EXTENSION OF EXISTING CONDUIT TO NEW SWITCH LOCATION.
9. PROVIDE NEW FEEDER FROM PAD MOUNTED UTILITY TRANSFORMER TO RELOCATED DISCONNECT SWITCH.
   NEW FEEDER SHALL BE (3-#1/0)2"C. INSTALL IN EXISTING 2" CONDUIT. EXTEND CONDUIT FROM EXISTING SWITCH LOCATION TO NEW SWITCH LOCATION. VERIFY CONDUIT SIZE PRIOR TO INSTALLATION
10. PROVIDE NEW FEEDER FROM RELOCATED DISCONNECT SWITCH TO KIOSK SERVICE ENTRANCE PANEL BOARD.
    NEW FEEDER SHALL BE (3-#1/0, 1#6G). INSTALL IN EXISTING 2" CONDUIT. EXTEND CONDUIT FROM EXISTING SWITCH LOCATION TO NEW SWITCH LOCATION. VERIFY CONDUIT SIZE PRIOR TO INSTALLATION
11. REMOVE EXISTING DISCONNECT SWITCH FEEDER BACK TO PAD MOUNTED UTILITY TRANSFORMER.
12. REMOVE EXISTING PANEL BOARD FEEDER BACK TO EXISTING DISCONNECT SWITCH LOCATION.
13. REMOVE AND SALVAGE EXISTING DISCONNECT SWITCH FOR EXISTING KIOSK SERVICE ENTRANCE PANEL BOARD.
    EXISTING SWITCH IS 100A2P SERVICE ENTRANCE RATED CIRCUIT BREAKER.

PRELIMINARY



WEST ENTRANCE STATION DISCONNECT SWITCH RELOCATION DETAIL

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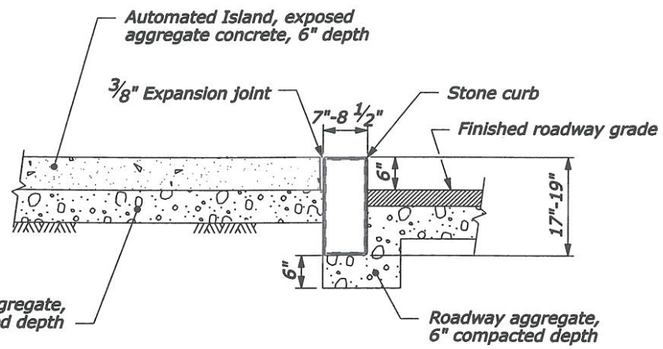
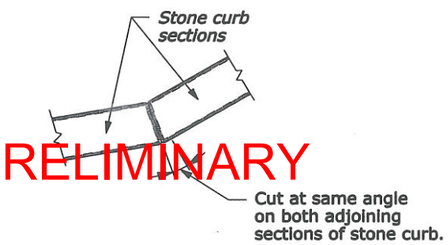
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	E.8



TYPICAL SECTION



PLAN
(AT CURVED SECTIONS)

PRELIMINARY

AUTOMATED ISLAND AND STONE CURB DETAILS

STONE CURB NOTES:

1. Curb segment length is 12"-40" . Length is measured along the front face of curb.
2. On curb alignments with a radius of less than 25', use curb segment lengths of 12"-18".
3. Provide 1/4 to 1/2" mortar joints between segments.
4. Round exposed edges to a 1/2" to 1 1/2" radius.
5. Minimum relief on segments is 2".

WEST ENTRANCE STATION
STONE CURB
DETAIL

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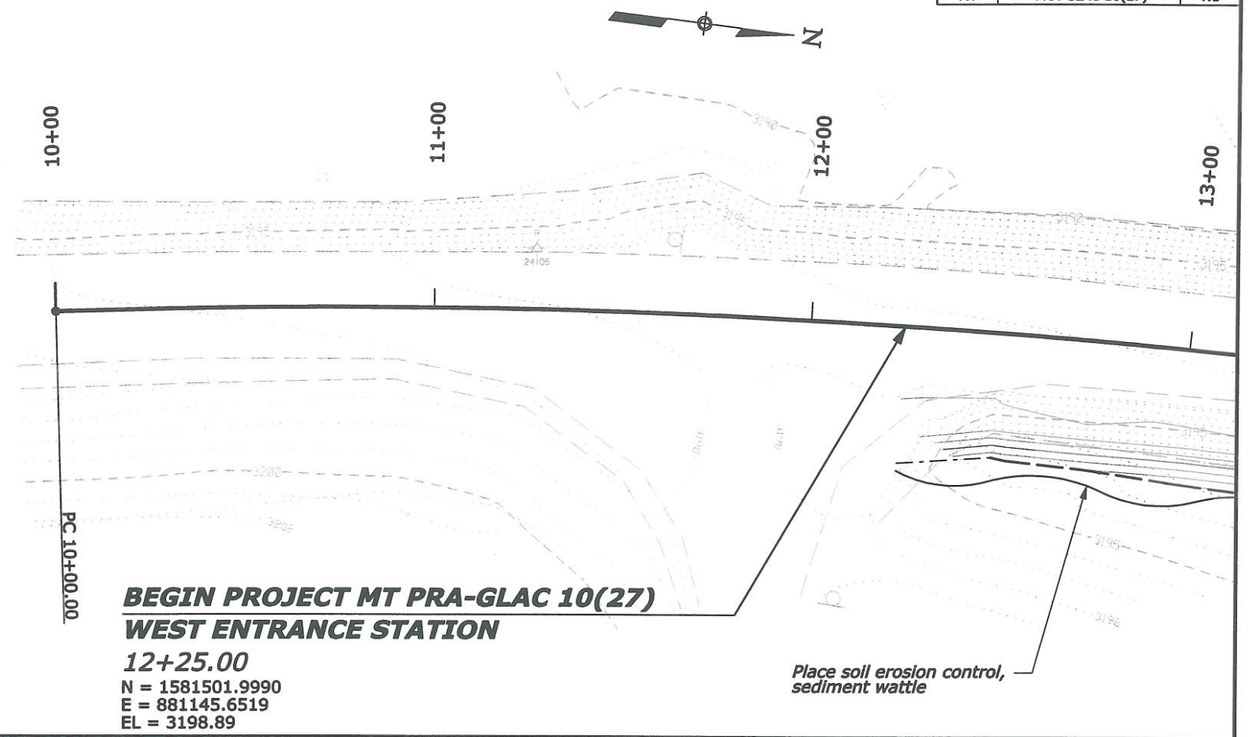
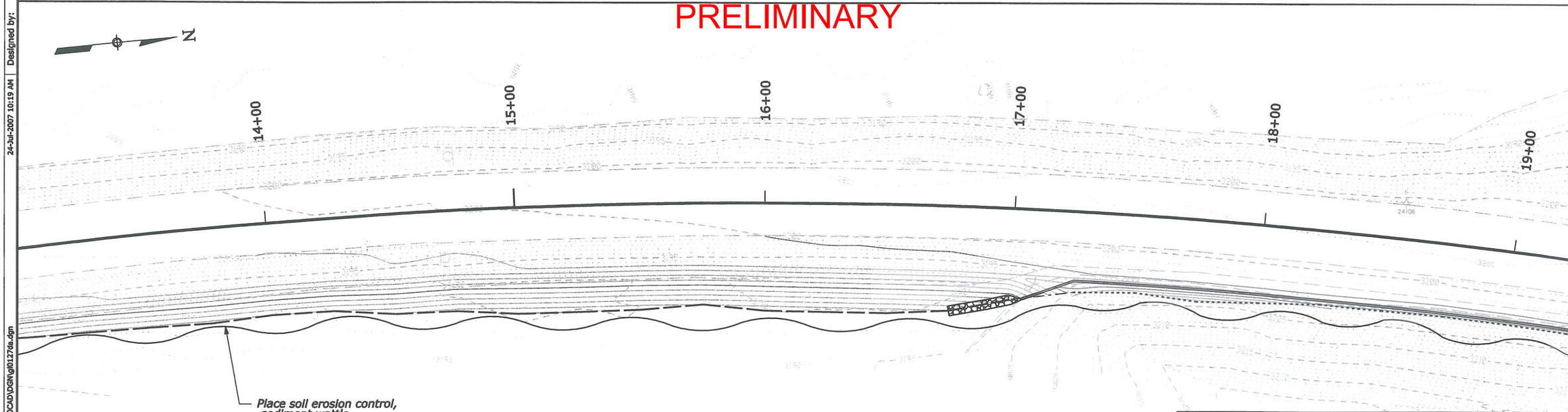
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	F.1

ITEM 15705-1500
SOIL EROSION CONTROL, SEDIMENT WATTLE

LOCATION	QUANTITY (lnft)
12+25.00 to 29+15.54	1737
TOTAL	1737



PRELIMINARY



EROSION CONTROL PLAN

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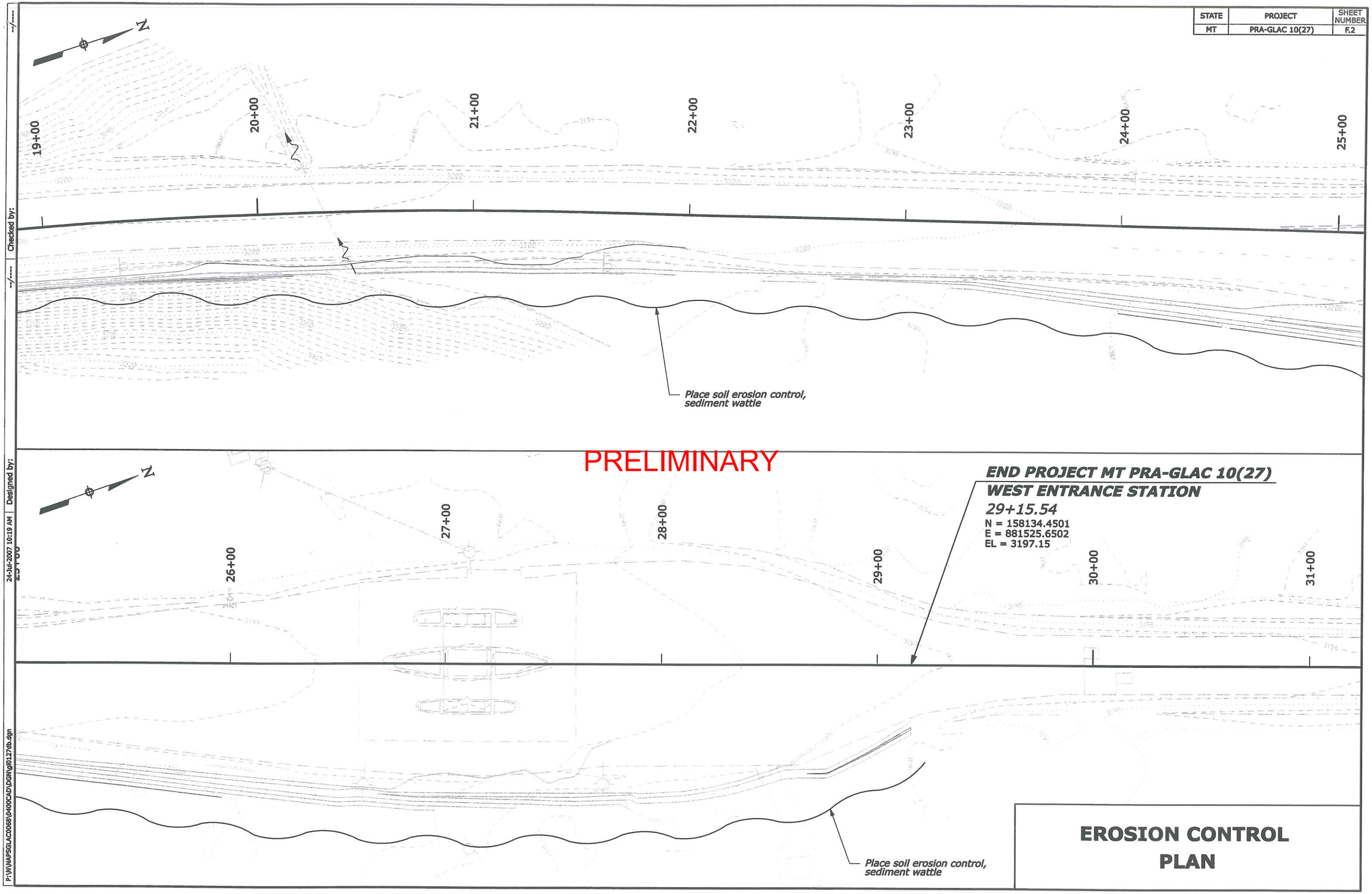
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	F.2



EROSION CONTROL PLAN

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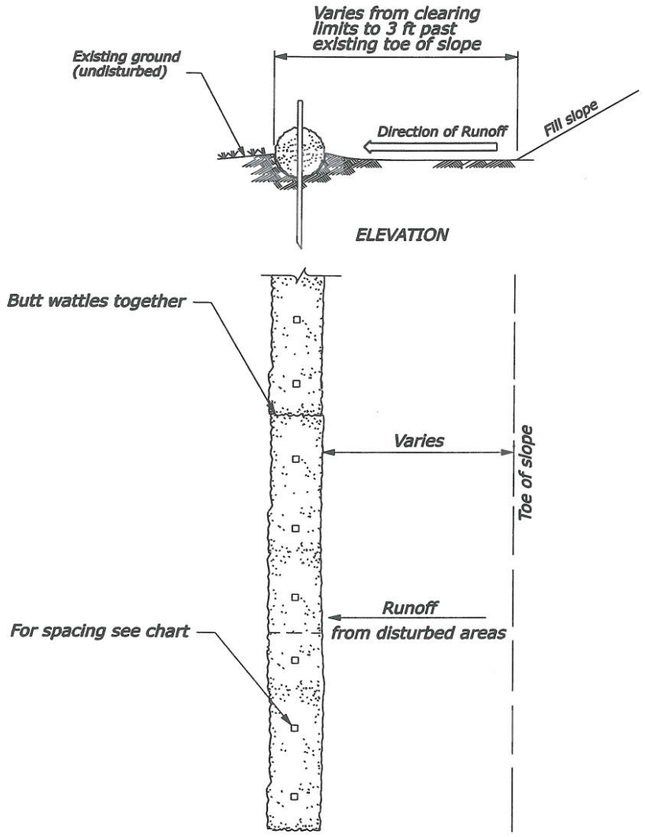
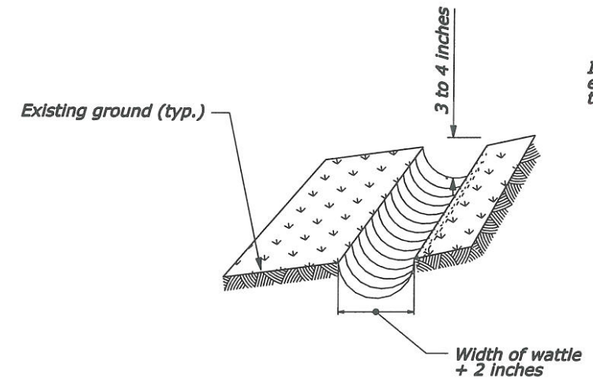
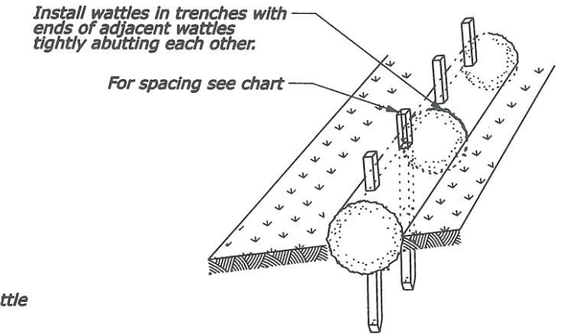
STATE	PROJECT	SHEET NUMBER
MT	PRA-GLAC 10(27)	F.3



INSTALLATION OF A STRAW WATTLE BARRIER AT TOE OF FILL

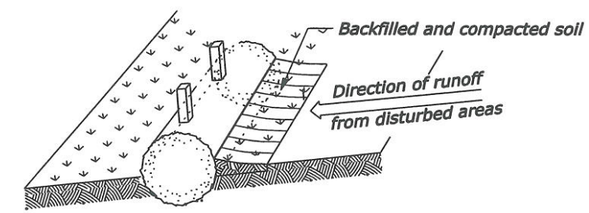


Step 1: Excavate trench



Step 2: Install wattles

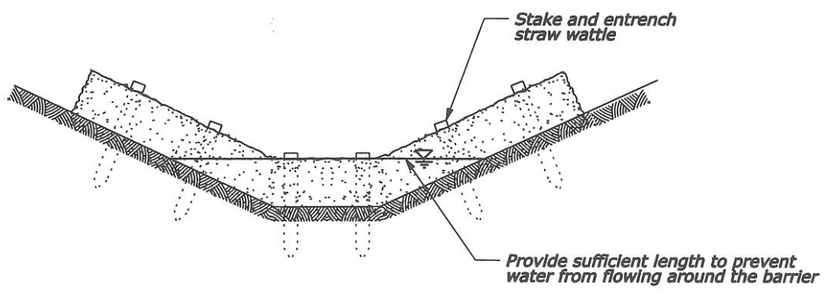
Step 3: Tightly pack straw between wattles (plan view of wattles)



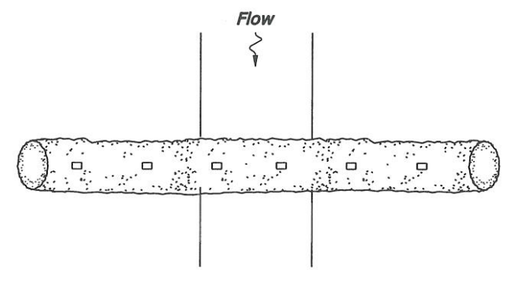
Step 4: Backfill soil against wattles

PRELIMINARY

INSTALLATION OF A STAKED AND ENTRENCHED STRAW WATTLES



ELEVATION



PLAN

INSTALLATION OF A STRAW WATTLE BARRIER IN DITCH

STAKE SPACING	
Wattle length (ft)	No. of stakes (each)
25	6
20	5
12	4

NOTE:

1. Use straw wattles in drainage ditches for only low flow conditions.

SEDIMENT WATTLE DETAIL

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