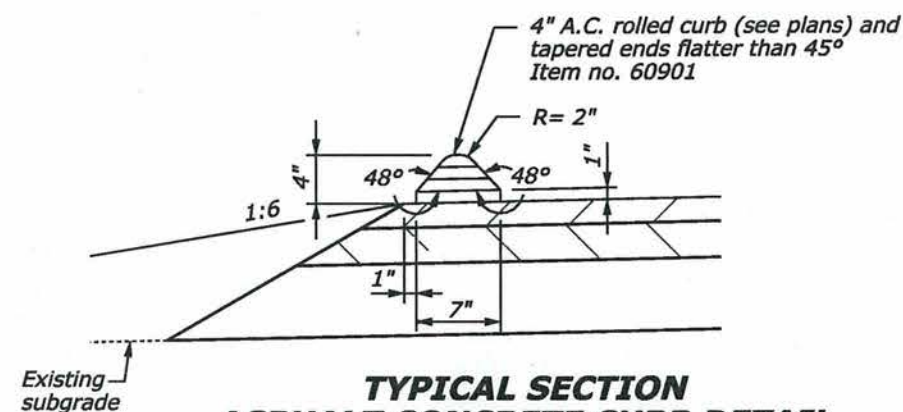
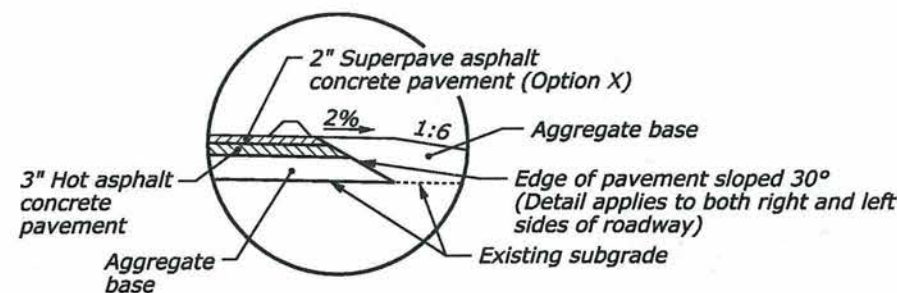


STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A6	A22



TYPICAL SECTION ASPHALT CONCRETE CURB DETAIL

Note: The finish elevation of the gutter shall be 2" lower if Option X is not awarded.



DETAIL A

NOTE:

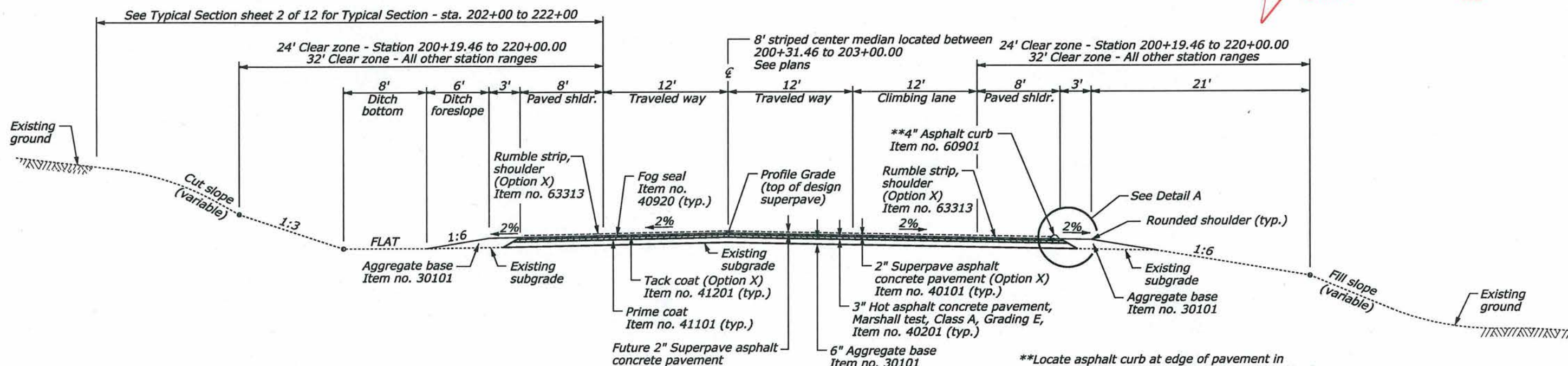
- Place 3" hot asphalt concrete pavement, Marshall test in two lifts.
Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
- Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.

AS-BUILT DRAWINGS/SPECIFICATIONS

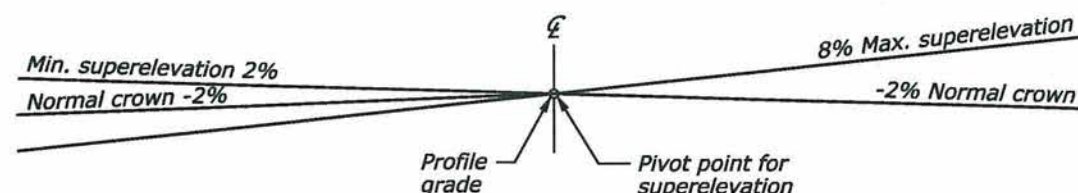
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

[Signature]
Signature
1/2/14
Date



TYPICAL SECTION SADDLE ROAD Station 200+17.72 to 645+00 Station 655+00 to 666+00



METHOD OF SUPERELEVATION ON CURVES

See plans for locations of curves and superelevations

Note:
Finished subgrade, roadway and drainage features from Sta. 200+17.72 to Sta. 707+00.00 are shown as advertised under project HI A-AD 6(6).



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NO SCALE

Expiration Date of License 4/30/2014

LENGTH OF PROJECT

Station to Station	Roadway (feet)	Roadway (miles)
Saddle Road 753+80		
200+17.72 to 752+73.89	55,256.17	10.47
Hwy 190 (Mamalahoa Hwy)		
763+62.54 to 795+11.02	3,148.48	0.60

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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

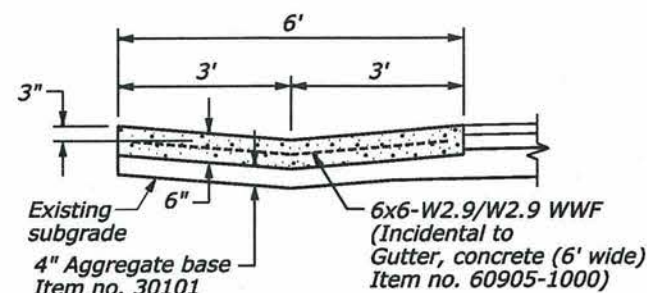
TYPICAL SECTIONS

SHEET 1 of 12

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A7	A22

NOTE:

1. Place 3" hot asphalt concrete pavement, Marshall test in two lifts.
Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
2. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.



GUTTER, CONCRETE (6' WIDE)

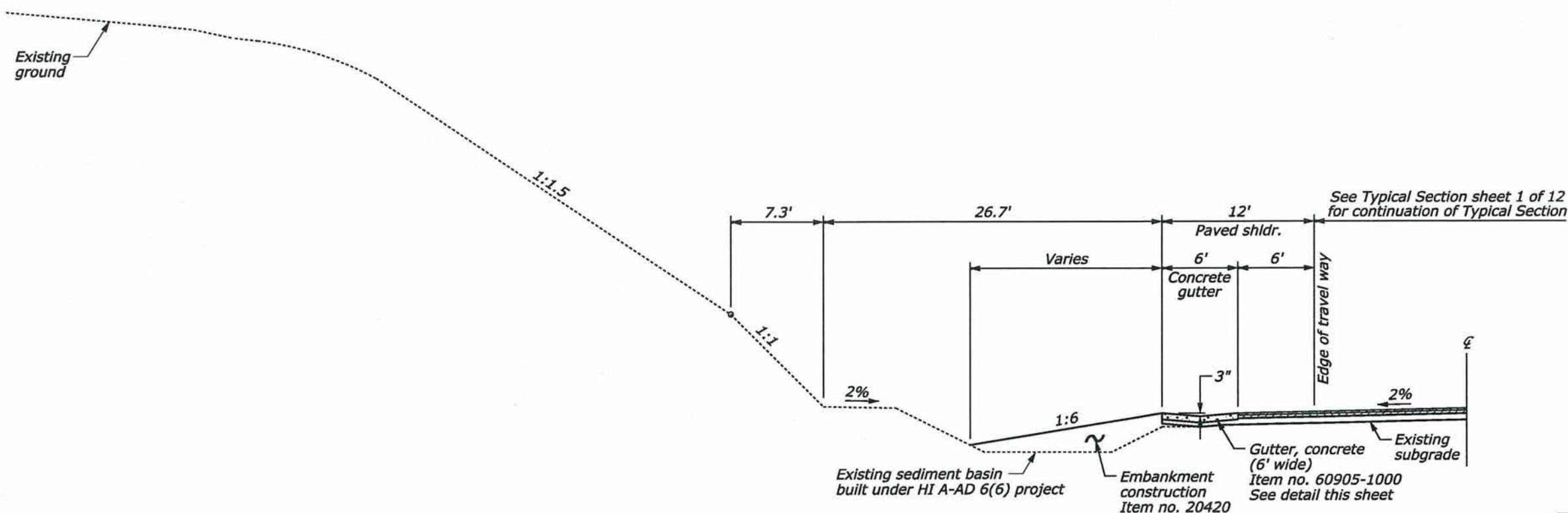
Note:
The finish elevation of the gutter shall be 2" lower if Option X is not awarded.

AS-BUILT DRAWINGS/SPECIFICATIONS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

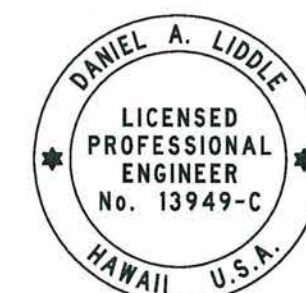
GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 4/2/14



TYPICAL SECTION SADDLE ROAD Station 202+00 to 222+00

Note:
Finished subgrade, roadway and drainage features from Sta. 200+17.72 to Sta. 707+00.0 are shown as advertised under project HI A-AD 6(6).



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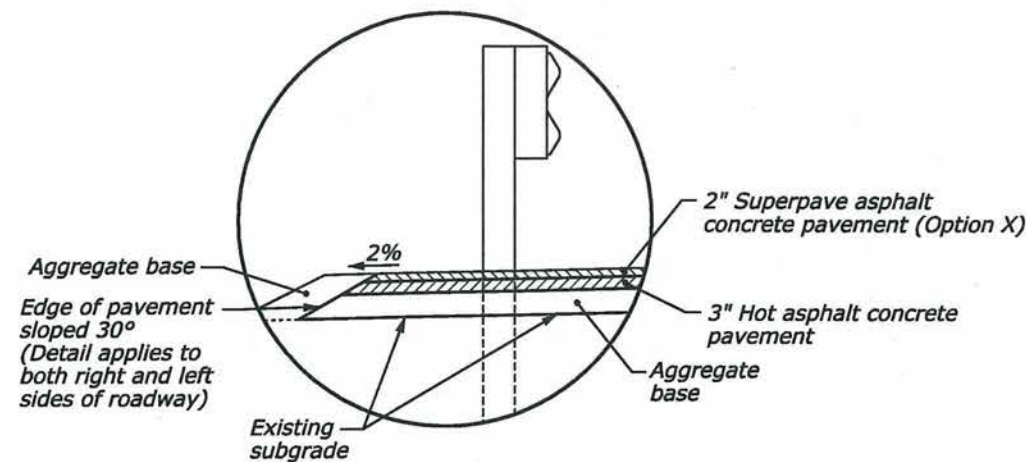
U.S. DEPARTMENT OF TRANSPORTATION
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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

TYPICAL SECTIONS

SHEET 2 of 12

NO SCALE

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A8	A22



DETAIL A

Note:
Post above ground shall be 33 inches tall.

NOTE:

1. Place 3" hot asphalt concrete pavement, Marshall test in two lifts.
Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
2. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.

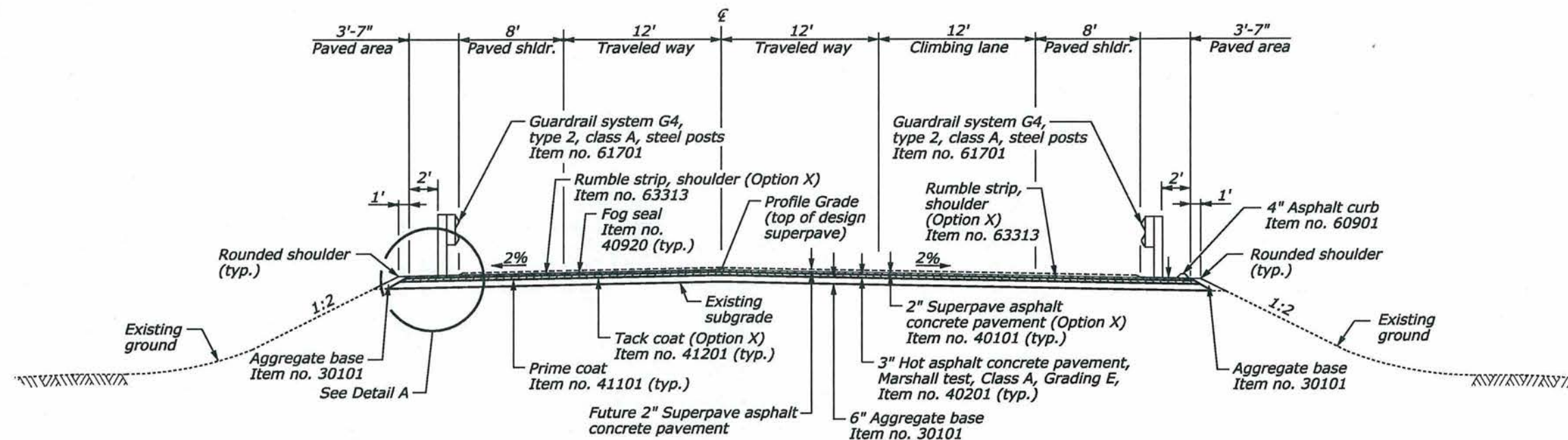
AS-BUILT DRAWINGS/SPECIFICATIONS

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GOODFELLOW BROS., INC.

Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



**TYPICAL SECTION
SADDLE ROAD
Station 645+00 to 655+00**

Note:
Finished subgrade, roadway and drainage features from Sta. 200+17.72 to Sta. 707+00.0 are shown as advertised under project HI A-AD 6(6).



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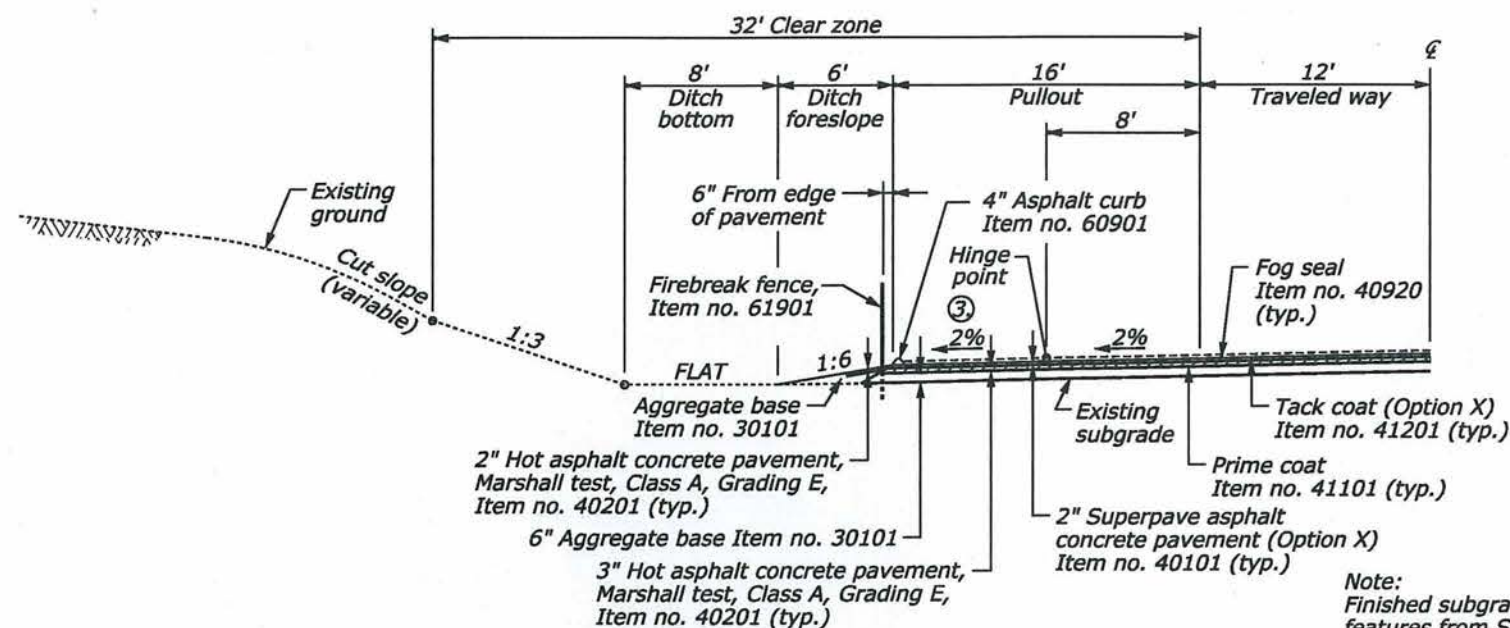
NO SCALE

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TYPICAL SECTIONS

SHEET 3 of 12

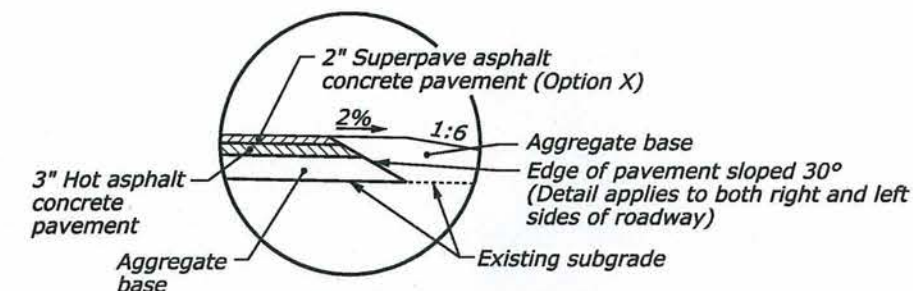
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A9	A22



Station 687+00 to 704+33.38, Left Side Only

NOTE:

1. Place 3" hot asphalt concrete pavement, Marshall test in two lifts. Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
2. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.
3. Maintain 2% cross-slope of paved firebreak with superelevated roadway location.

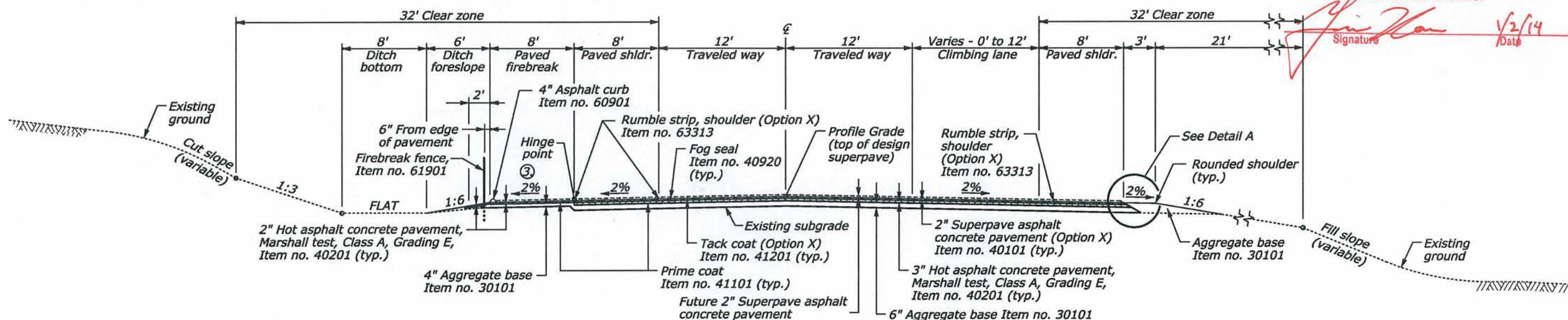


DETAIL A

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

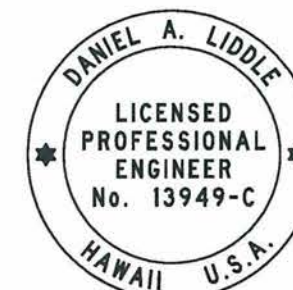
GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



**TYPICAL SECTION
SADDLE ROAD
Station 666+00 to 707+00**

Note:
Finished subgrade, roadway and drainage features from Sta. 200+17.72 to Sta. 707+00.0 are shown as advertised under project HI A-AD 6(6).



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TYPICAL SECTIONS

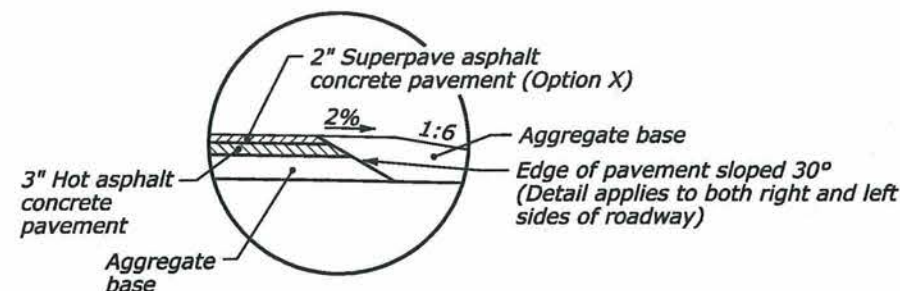
SHEET 4 of 12

NO SCALE

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A10	A22

SLOPE RATIO TABLE

Slope	Cut Slope Ht.	Fill Slope Ht.
1:6	0' - 2'	0' - 1'
1:4	2' - 6'	1' - 4'
1:3	6' - 12'	4' - 8'
1:2	12' - 16'	8' - Over
1:1.5	16' - Over	N/A



DETAIL A

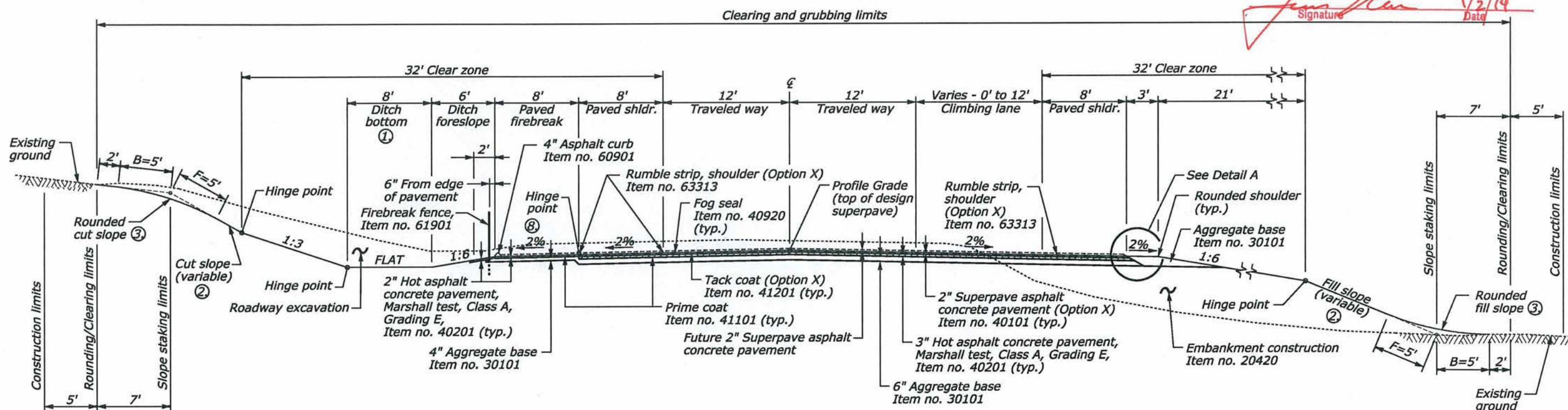
NOTE:

- ① The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
- ② See slope ratio table for cut and fill slope ratios.
- ③ Round all earth slopes and all rippable rock slopes. Reduce the B and F dimensions for cut slope distances less than 9 feet to the actual cut distance.
- ④ Place 3" hot asphalt concrete pavement, Marshall test in two lifts. Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
- ⑤ Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.
- ⑥ See section 204 of the SCR's for finished slope requirements.
- ⑦ See section 204 and 624 of the SCR's for the placement of topsoil.
- ⑧ Maintain 2% cross-slope of paved firebreak with super-elevated roadway location.

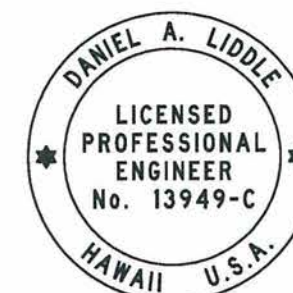
AS BUILT DRAWING/SECTION
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
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[Signature] *1/2/14*
Signature Date



**TYPICAL SECTION
SADDLE ROAD
Station 707+00 to 744+89.80**



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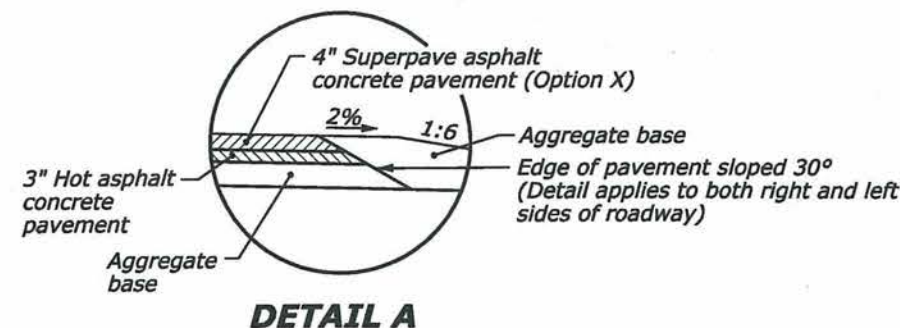
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TYPICAL SECTIONS

SHEET 5 of 12

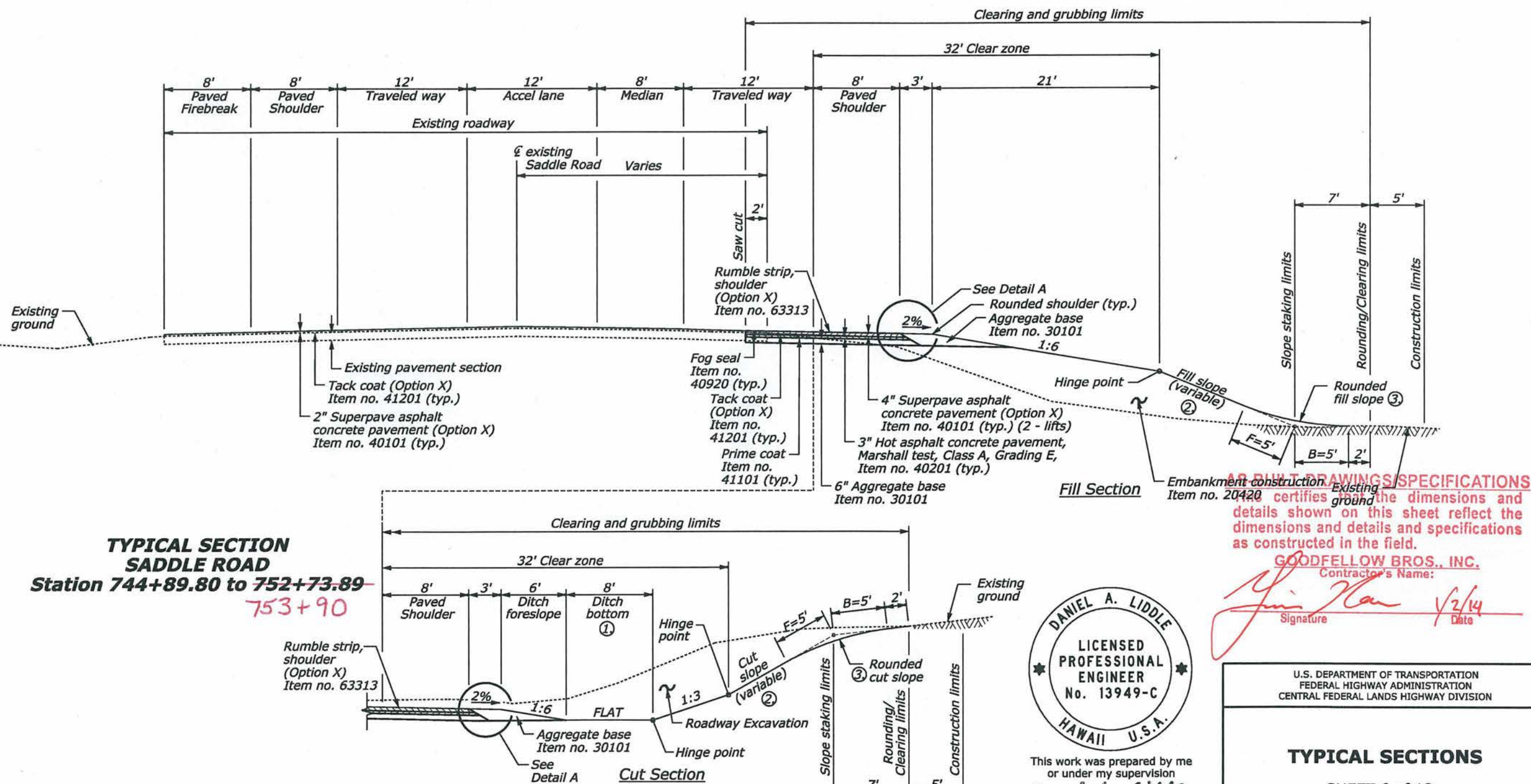
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A11	A22

SLOPE RATIO TABLE		
Slope	Cut Slope Ht.	Fill Slope Ht.
1:6	0' - 2'	0' - 1'
1:4	2' - 6'	1' - 4'
1:3	6' - 12'	4' - 8'
1:2	12' - 16'	8' - Over
1:1.5	16' - Over	N/A



NOTE:

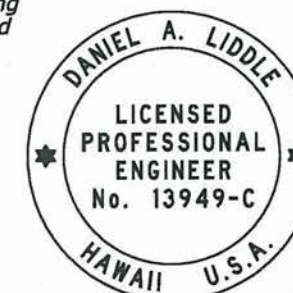
- The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
- See slope ratio table for cut and fill slope ratios.
- Round all earth slopes and all rippable rock slopes. Reduce the B and F dimensions for cut slope distances less than 9 feet to the actual cut distance.
- Place 3" hot asphalt concrete pavement, Marshall test in two lifts. Place 4" Superpave asphalt concrete pavement (Option X) in two lifts.
- Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.
- See section 204 of the SCR's for finished slope requirements.
- See section 204 and 624 of the SCR's for the placement of topsoil.



AS BUILT DRAWINGS/SPECIFICATIONS certifies the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

TYPICAL SECTIONS

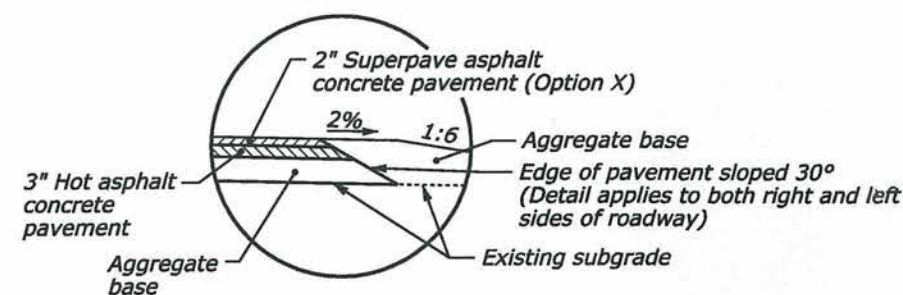
SHEET 6 of 12

NO SCALE

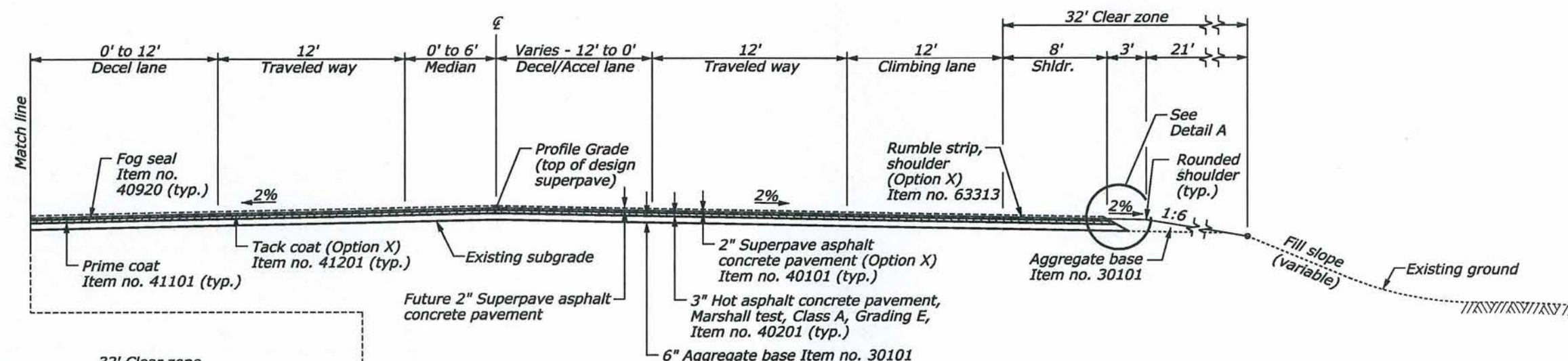
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A12	A22

NOTE:

1. Place 3" hot asphalt concrete pavement, Marshall test in ~~two~~ lifts.
Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
2. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.

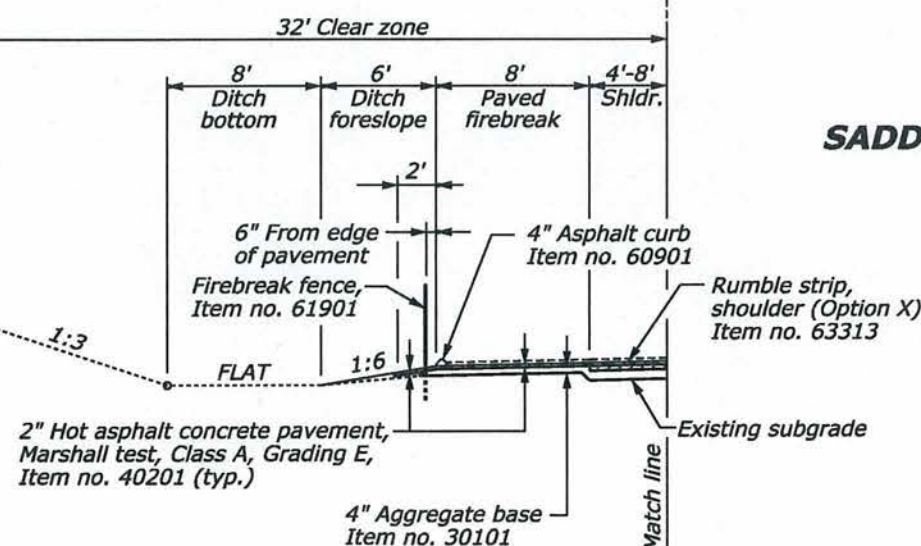


DETAIL A



TYPICAL SECTION SADDLE ROAD / OLD SADDLE INTERSECTION Station 702+40 to 707+00

Note:
Finished subgrade, roadway and drainage features from Sta. 200+17.72 to Sta. 707+00.0 are shown as advertised under project HI A-AD 6(6).



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GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



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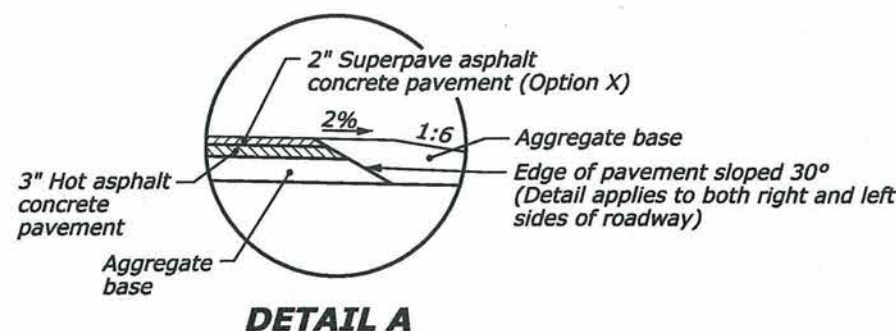
TYPICAL SECTIONS

SHEET 7 of 12

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A13	A22

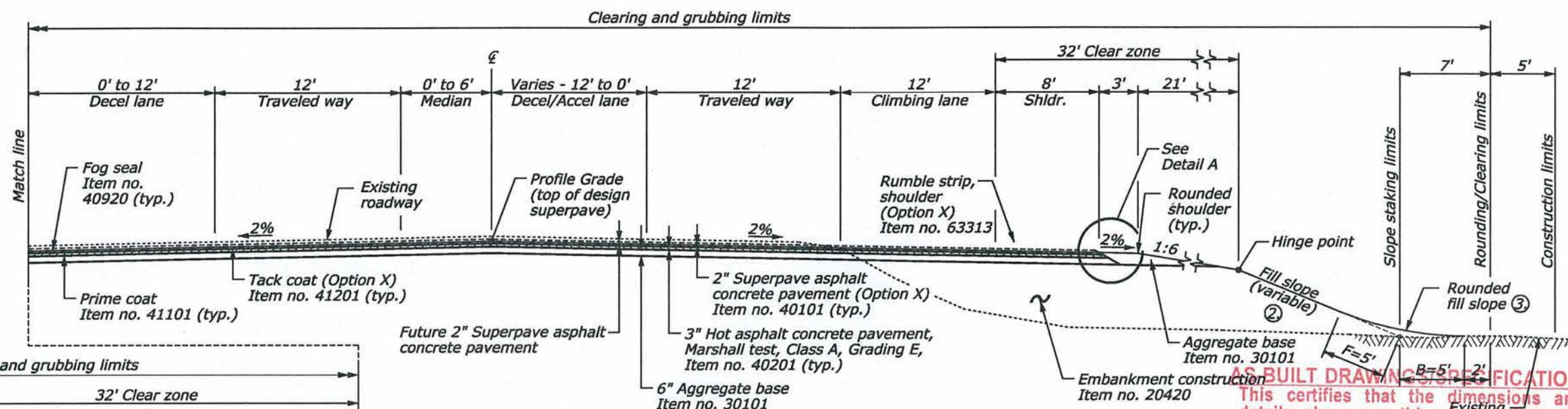
SLOPE RATIO TABLE

Slope	Cut Slope Ht.	Fill Slope Ht.
1:6	0' - 2'	0' - 1'
1:4	2' - 6'	1' - 4'
1:3	6' - 12'	4' - 8'
1:2	12' - 16'	8' - Over
1:1.5	16' - Over	N/A



NOTE:

- ① The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
- ② See slope ratio table for cut and fill slope ratios.
- ③ Round all earth slopes and all rippable rock slopes. Reduce the B and F dimensions for cut slope distances less than 9 feet to the actual cut distance.
4. Place 3\" hot asphalt concrete pavement, Marshall test in two lifts. Place 2\" Superpave asphalt concrete pavement (Option X) in one lift.
5. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.
6. See section 204 of the SCR's for finished slope requirements.
7. See section 204 and 624 of the SCR's for the placement of topsoil.

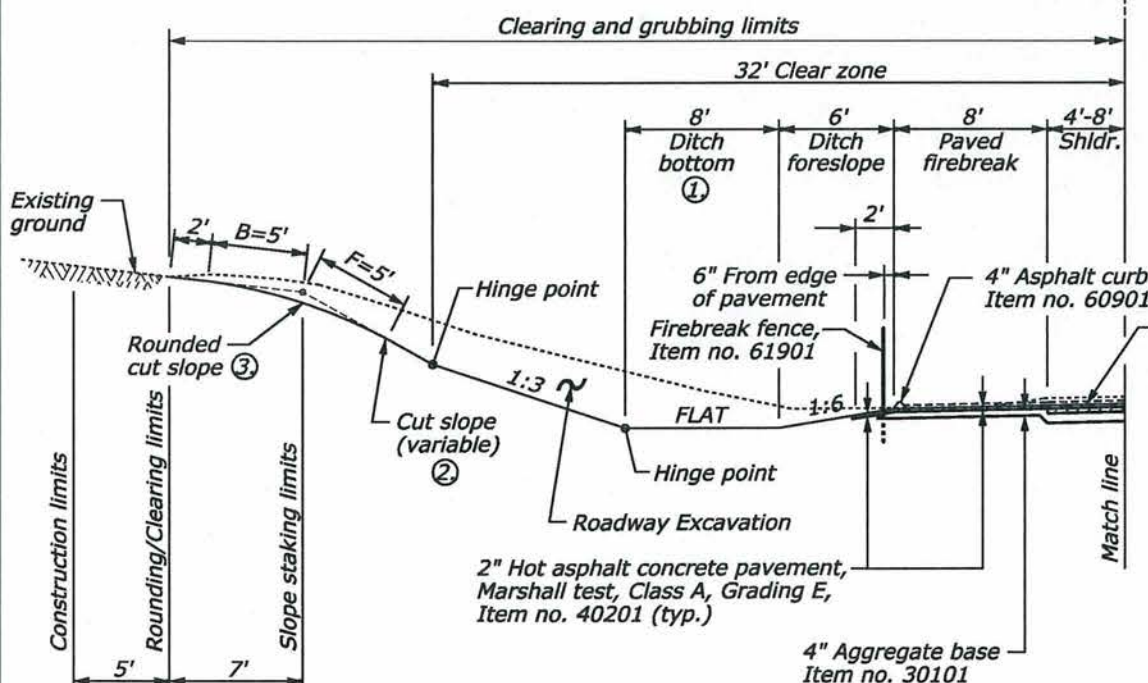


**TYPICAL SECTION
SADDLE ROAD / OLD SADDLE INTERSECTION
Station 707+00 to 728+20**

AS BUILT DRAWING SPECIFICATIONS
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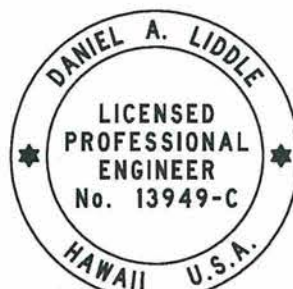


**TYPICAL SECTION
OLD SADDLE ROAD
Station 160+00 to 163+00
(See X-sections for actual cross slopes)**

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TYPICAL SECTIONS

SHEET 8 of 12

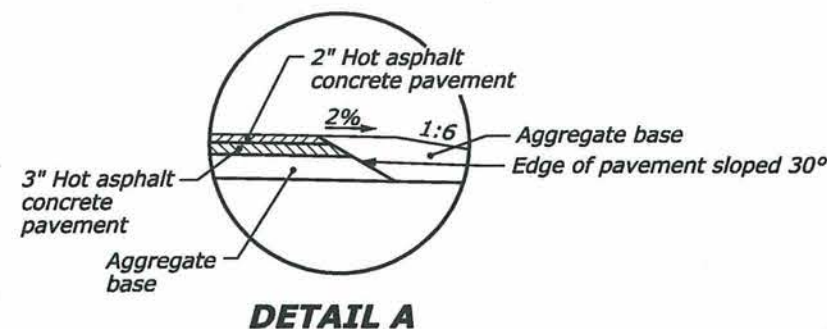


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NO SCALE

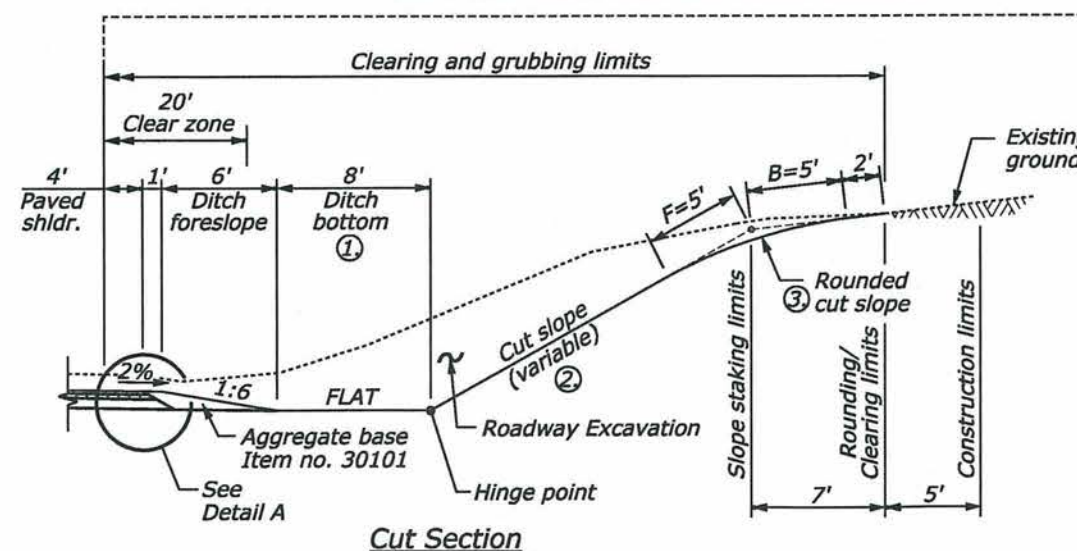
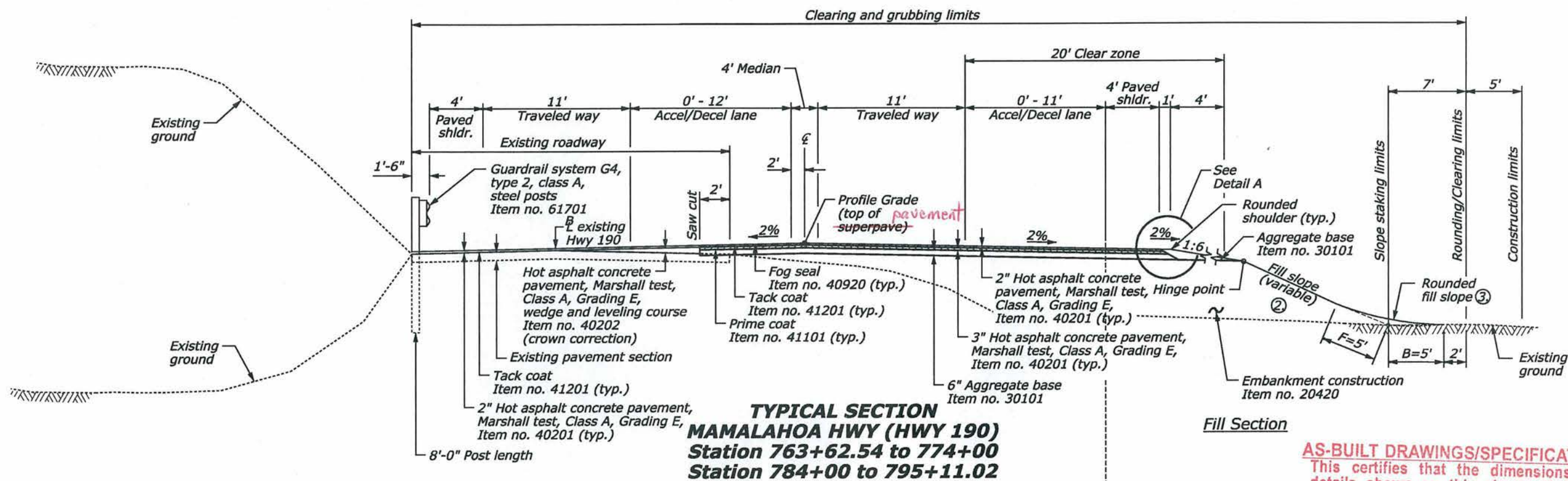
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A14	A22

SLOPE RATIO TABLE		
Slope	Cut Slope Ht.	Fill Slope Ht.
1:6	0' - 2'	0' - 1'
1:4	2' - 6'	1' - 4'
1:3	6' - 12'	4' - 8'
1:2	12' - 16'	8' - 8'
1:1.5	16' - Over	N/A



NOTE:

1. The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. See slope ratio table for cut and fill slope ratios.
3. Round all earth slopes and all rippable rock slopes. Reduce the B and F dimensions for cut slope distances less than 9 feet to the actual cut distance.
4. Place 3" hot asphalt concrete pavement, Marshall test in two lifts. Place 2" Superpave asphalt concrete pavement (Option X) in one lift.
5. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.
6. See section 204 of the SCR's for finished slope requirements.
7. See section 204 and 624 of the SCR's for the placement of topsoil.



Fill Section

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Signature: *[Signature]* Date: 1/2/14



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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

TYPICAL SECTIONS

SHEET 9 of 12

NO SCALE

3/28/2012 9:52:24 AM S:\Tranproj\100013746-SR\HwyDes\Roadwy\Sheets_Bid_Package_2\A-Gen_Sht\HI SR 200(00)_TYP-10.dgn

1. Place 3" hot asphalt concrete pavement; Marshall test in two lifts.
Place 2" ~~Superpave~~ ^{Marshall} asphalt concrete pavement (Option X) in one lift.
2. Apply fog seal to top of superpave asphalt concrete pavement finished surface and rumble strip.



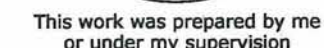
AS-BUILT DRAWINGS/SPECIFICATIONS

GOODFELLOW BROS., INC.

Contractor's Name:

Signature _____

Note:
Finished subgrade, roadway and drainage features from Sta. 774+00.0 to Sta. 784+00.0 are shown as advertised under project HI A-AD 6(6).



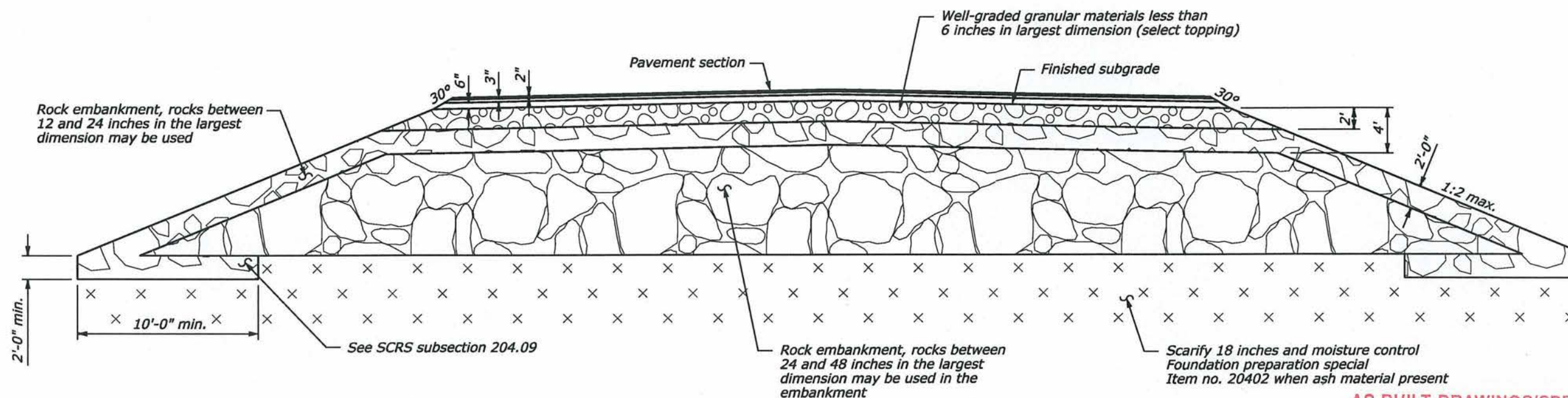
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TYPICAL SECTIONS

SHEET 10 of 12

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A16	A22



TYPICAL ROCK EMBANKMENT DETAIL

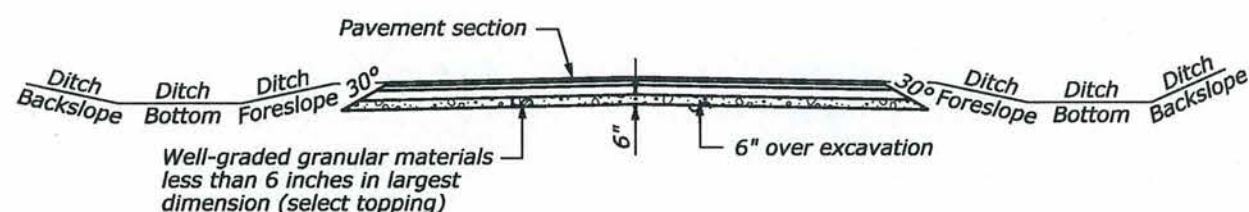
This detail is schematic, refer to typical sections on sheets A6 - A11 for the geometric configurations of embankments. All rock embankment will be measured as Embankment Construction Item no. 20420

AS-BUILT DRAWINGS/SPECIFICATIONS

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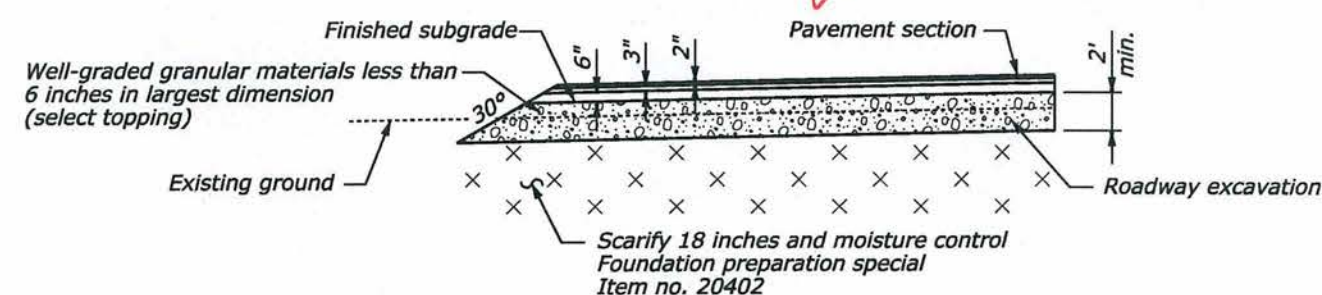
GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



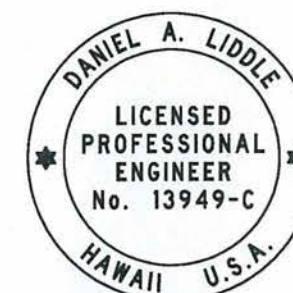
Over excavate 6" in all cut sections and backfill with well-graded granular material less than 6" in largest dimension (select topping).

TYPICAL ROCK CUT SECTION DETAIL



TYPICAL EMBANKMENT AND EXCAVATION IN ASH

In ash areas as directed by the CO excavate to 24 inches minimum depth below the finished subgrade.



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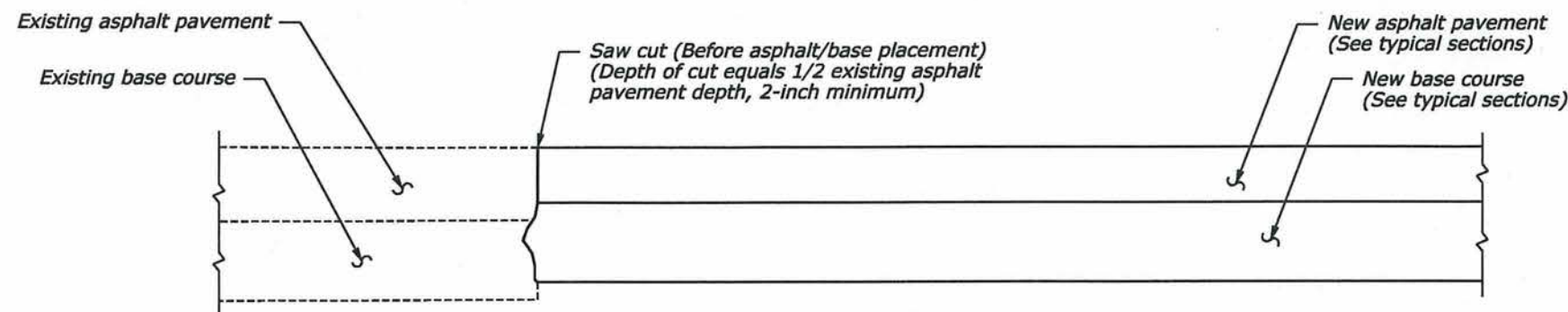
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

TYPICAL SECTIONS

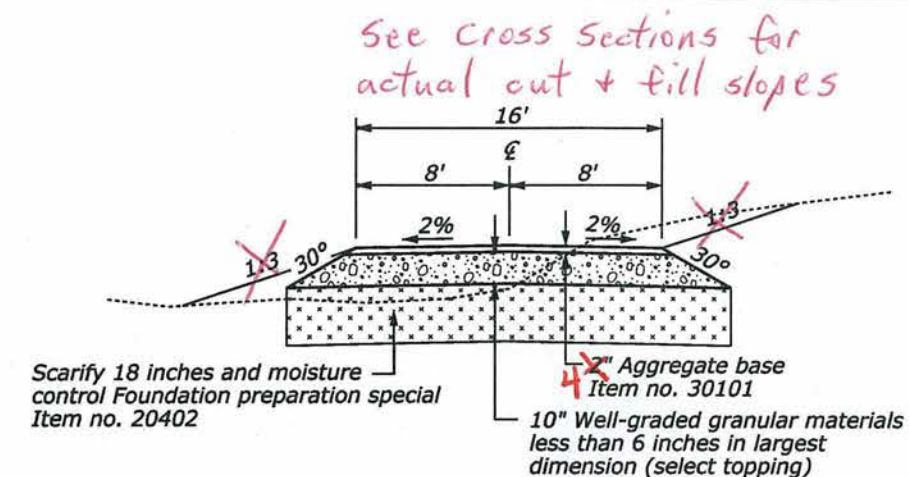
SHEET 11 of 12

NO SCALE

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A17	A22

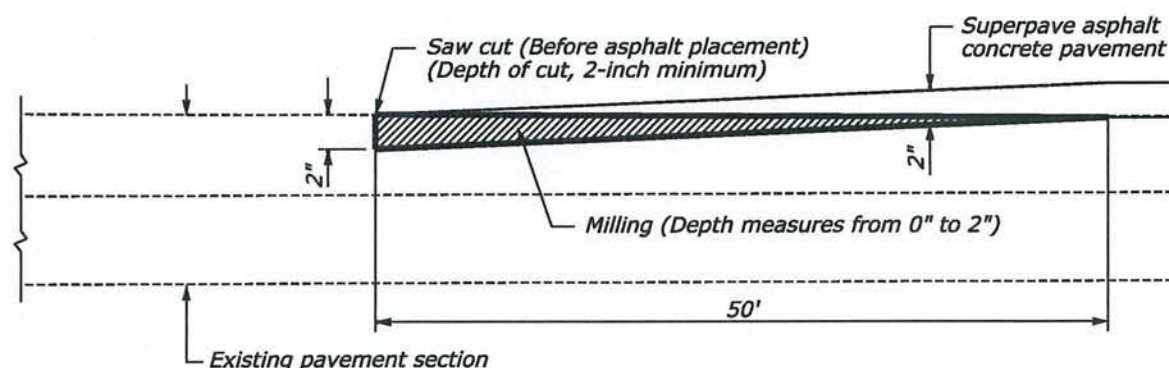


PAVEMENT TRANSITION - MATCH EXISTING



**TYPICAL SECTION
LIGHTNING TRAIL**

Station 1000+46.70 to 1081+56.99

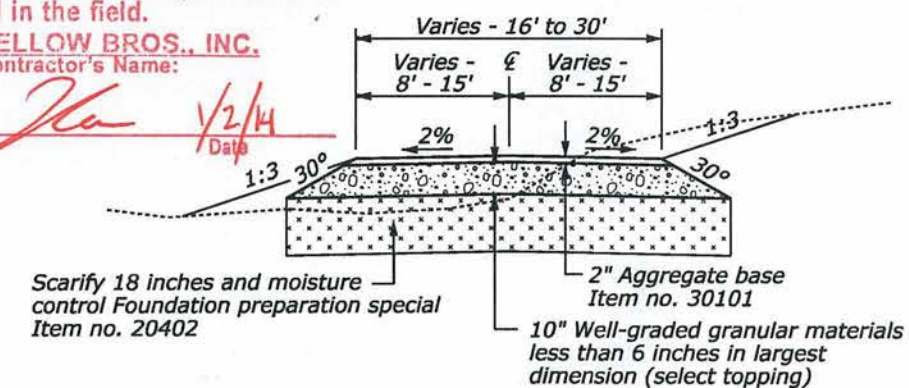


PAVEMENT (OVERLAY) TRANSITION - MATCH EXISTING

AS-BUILT DRAWINGS/SPECIFICATIONS
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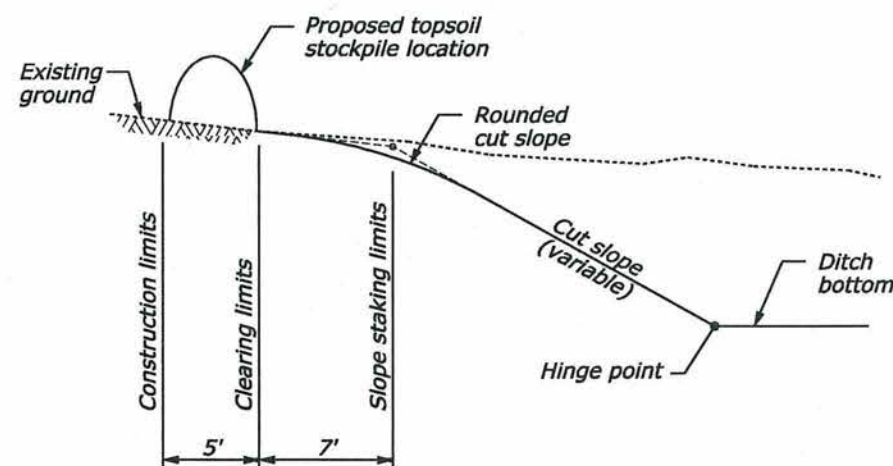
GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14

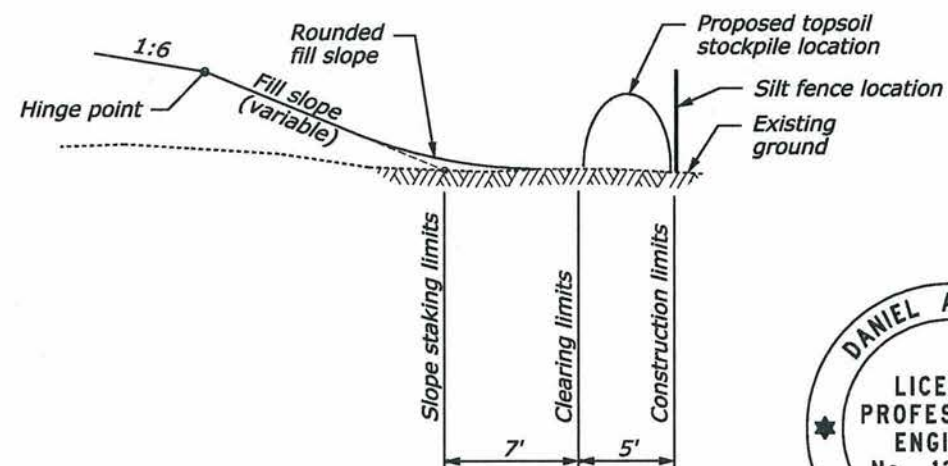


**TYPICAL SECTION
MSR ROAD**

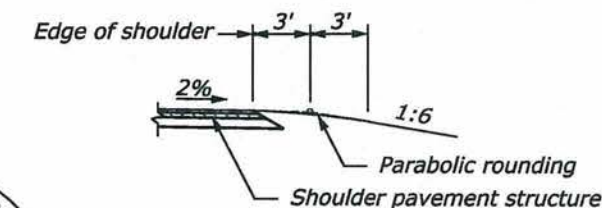
Station 91+00 to 101+50



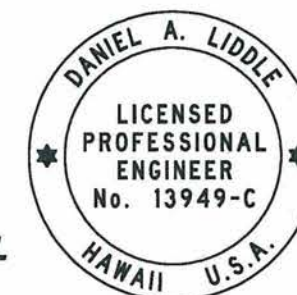
TOPSOIL STOCKPILE LOCATION IN CUT



TOPSOIL STOCKPILE LOCATION IN FILL



ROUNDED SHOULDER DETAIL



This work was prepared by me or under my supervision
Daniel A. Liddle
Expiration Date of License 4/30/2014

NO SCALE

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

TYPICAL SECTIONS

SHEET 12 of 12