

Kamehameha Highway Emergency Shoreline Improvements, Vicinity of Kaaawa Project No. 83D-01-15

Kaaawa Elementary School

Public Meeting

April 21, 2015

7:00 p.m.



STATE OF HAWAII
Department of Transportation

MEETING AGENDA

- Project Purpose
- Discuss Alternative Concepts
- Receive Community Input



PROJECT LOCATION MAP



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SITE PHOTOS



Condition in January 2015



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Temporary Fix



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Continual Pavement Cracking along Lane Line



SITE PHOTOS

Undermining of Pavement Structure



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SITE PHOTOS



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EMERGENCY PROCLAMATION

- Emergency Proclamation dated 4-10-15
- Intended to “prevent the danger of disaster damages, losses, and suffering, and to protect the health, safety, and welfare of the people”
- Emergency shoreline work is proposed to prevent closure of the highway due to wave erosion damage
- <http://1.usa.gov/1FuVbWI>



CONSTRUCTION OPTIONS

- Option 1 – 24/7 Lane Closure
 - 1 Lane closed 24/7
 - No night work
 - Approx. Construction Duration: 3½ - 4 months
 - Probable Construction Cost: ~\$5.4M
- Option 2 – 24/7 Lane Closure with Continuous Work
 - 1 Lane closed with work on-going 24/7 (including nights and weekends)
 - Approx. Construction Duration: 3 months
 - Probable Construction Cost: ~\$7.1M
- Option 3 – Lane Closure during Working Hours Only
 - 1 Lane closed during daytime working hours
 - 2 Lanes open during night-time non-working hours
 - Approx. Construction Duration: 5 months
 - Probable Construction Cost: ~\$6.6M



OPTION 1 – 24/7 LANE CLOSURE

- 1 Lane closed 24/7
- Temporary Traffic Signal for Contraflow
- Work Hours
 - Monday to Friday - 7:00 a.m. to 6:00 p.m.
- No Night Work
- Moderate Duration
- Least Costly (~\$5.4M)

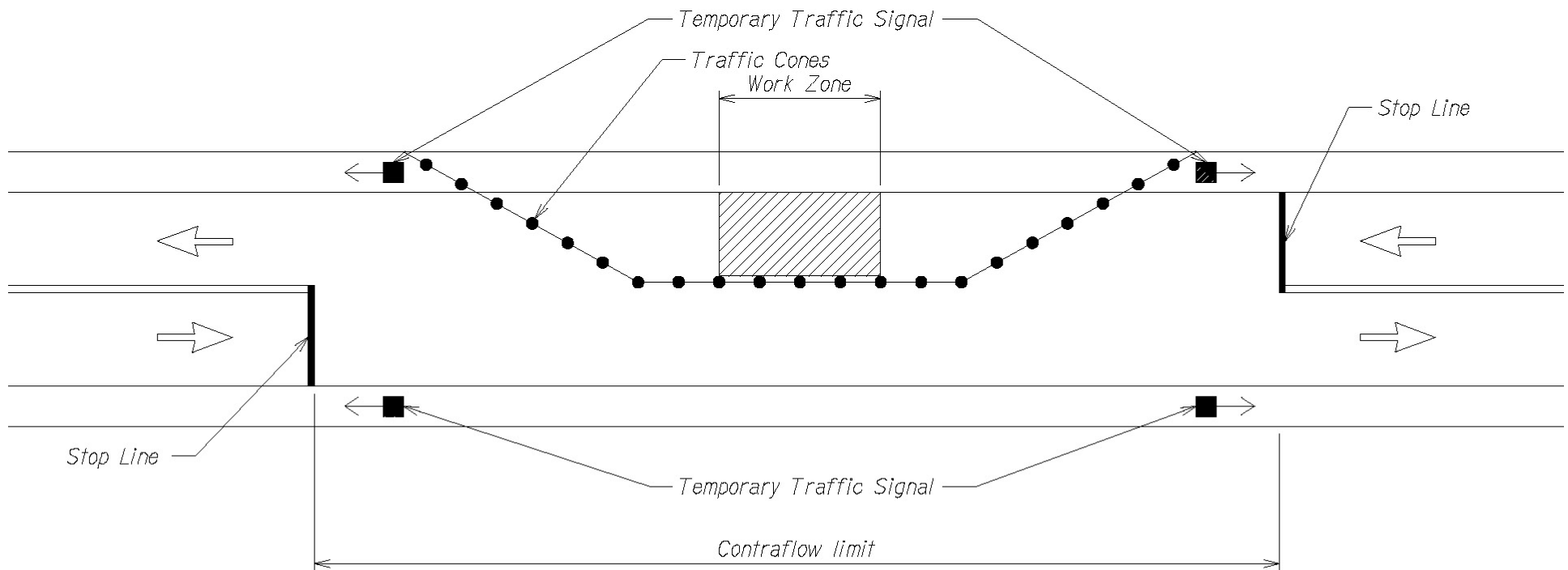


OPTION 2 – 24/7 LANE CLOSURE WITH CONTINUOUS WORK

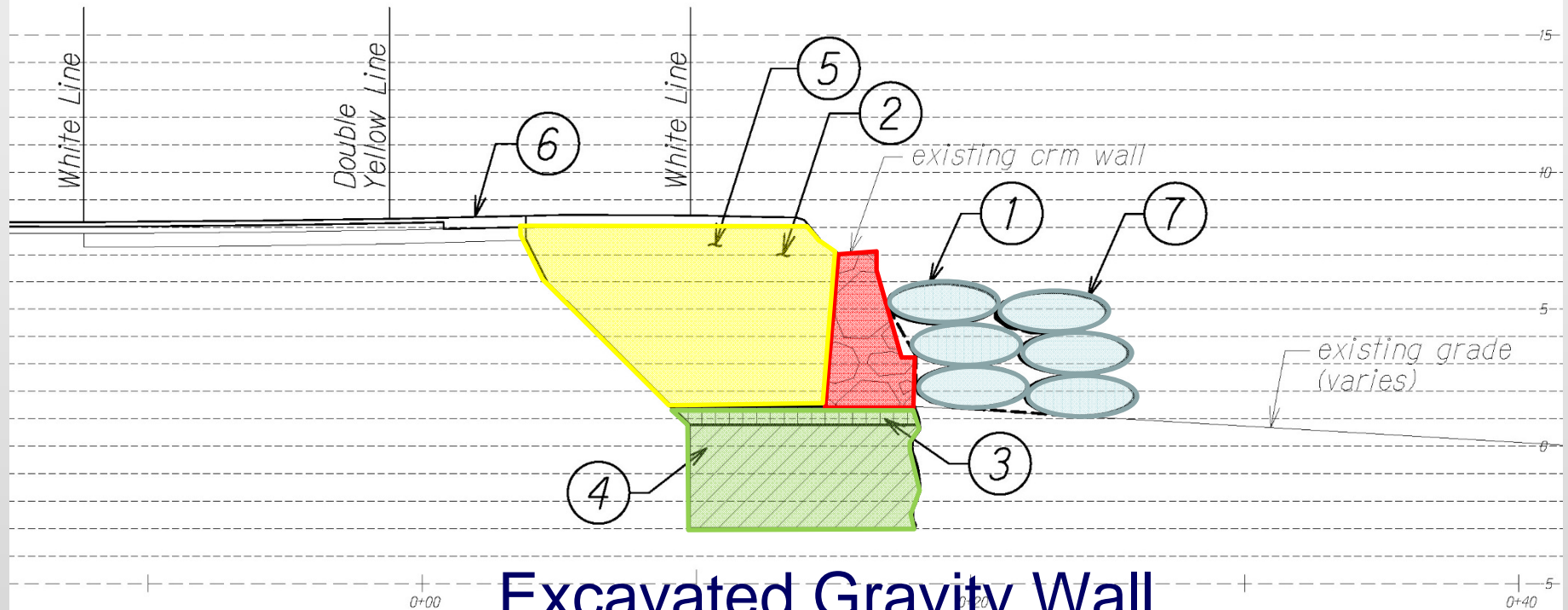
- 1 Lane Closed 24/7
- Temporary Traffic Signal for Contraflow
- Work 24/7 (including nights and weekends)
- Shortest Duration
- Most Costly (~\$7.1M)
- Most Noise Nuisance



OPTION 1 & 2 – CONTRAFLOW LANE



OPTION 1 & 2 – 24/7 LANE CLOSURE



- | | |
|---|----------------------|
| ① Install Sand Bags and Geotextile Fabric | ⑤ Build Gravity Wall |
| ② Excavate | ⑥ Repave Highway |
| ③ Install Concrete Cap Layer | ⑦ Remove Sand Bags |
| ④ Auger Cast (Sand/Cement Mix) Below Wall | |

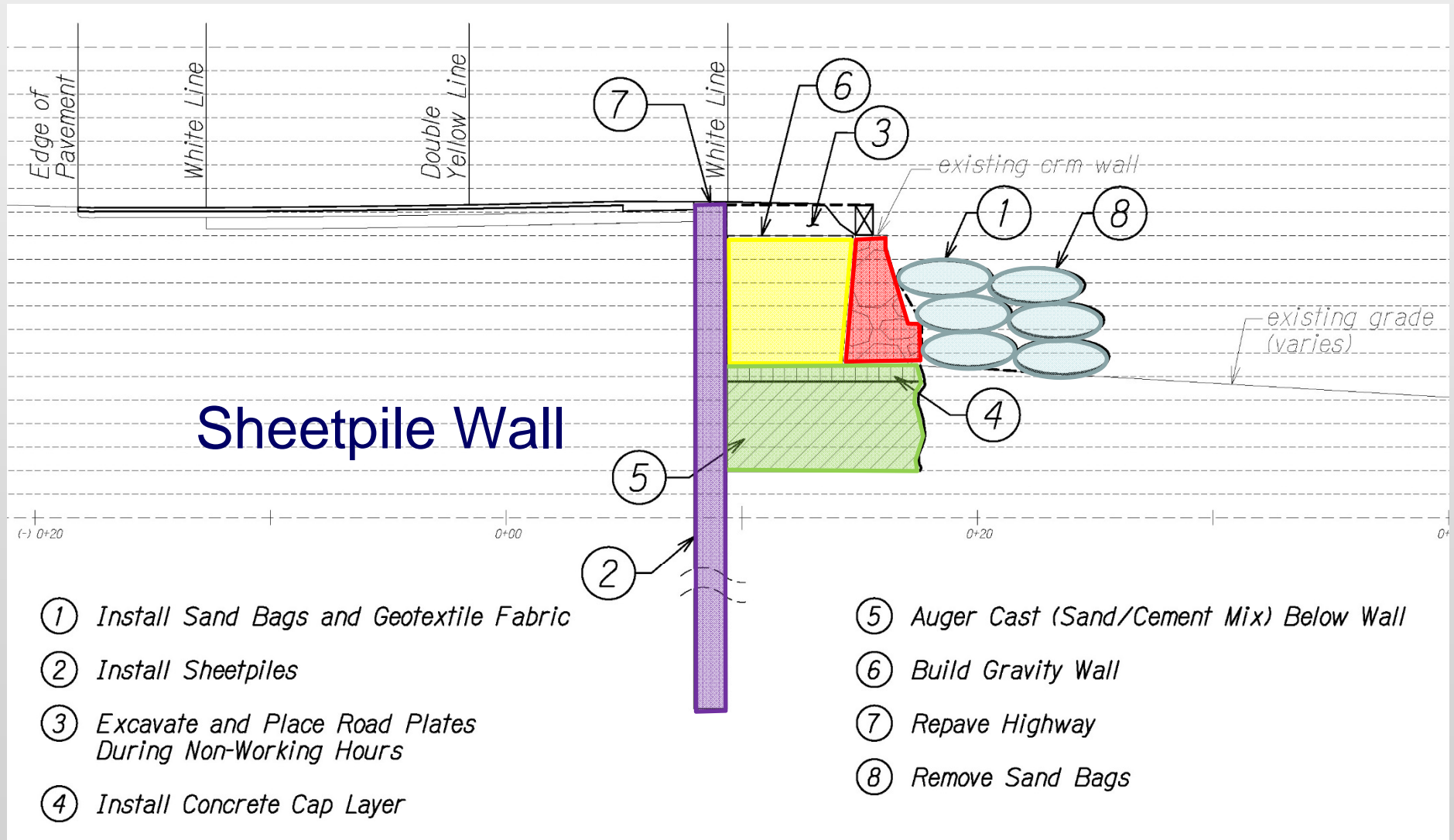


OPTION 3 – LANE CLOSURE DURING WORKING HOURS ONLY

- 1 Lane closed during daytime working hours
 - Monday to Friday - 7:00 a.m. to 6:00 p.m.
- 2 Lanes open during night-time non-working hours
- No Night Work
- Moderate Cost (~\$6.6M)
- Longest Duration



OPTION 3 – LANE CLOSURE DURING WORKING HOURS ONLY

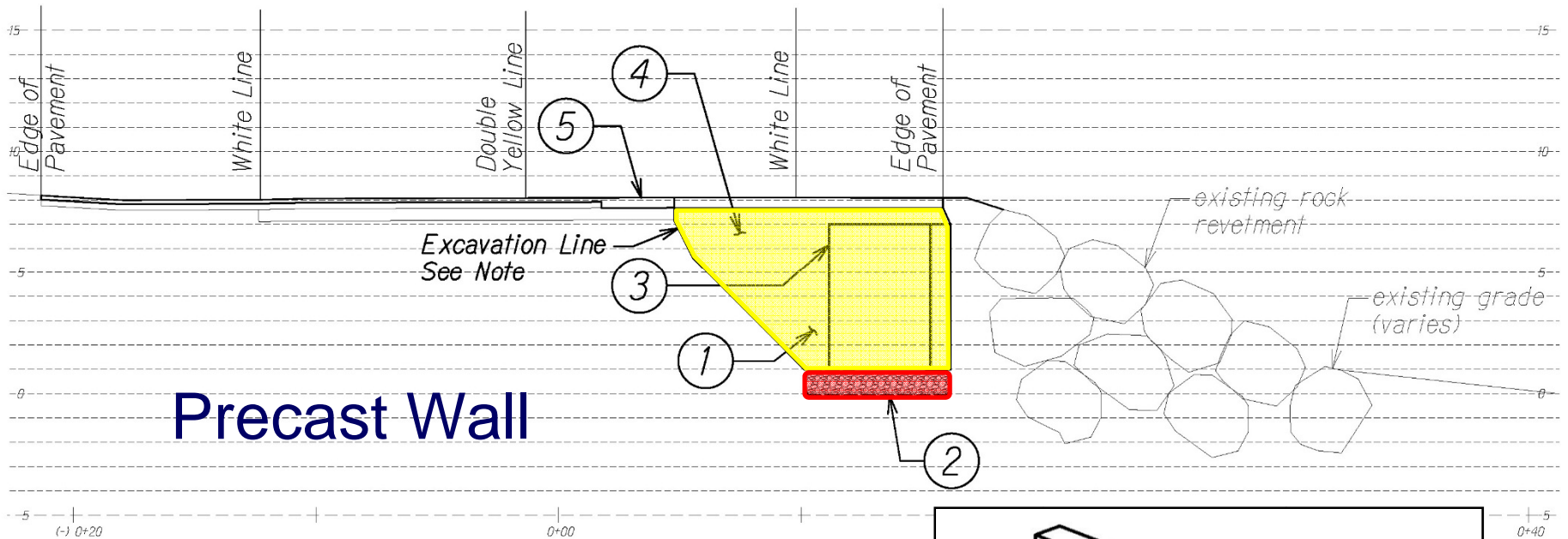


ROCK REVETMENT PRECAST WALL

- Option 1 or Option 2 – 24/7 Lane Closure
 - Construction can proceed in large increments
 - Multiple activities can occur concurrently
 - Shorter duration
- Option 3 - Lane Closure during Working Hours Only
 - Staged for daily completion
 - Longer duration

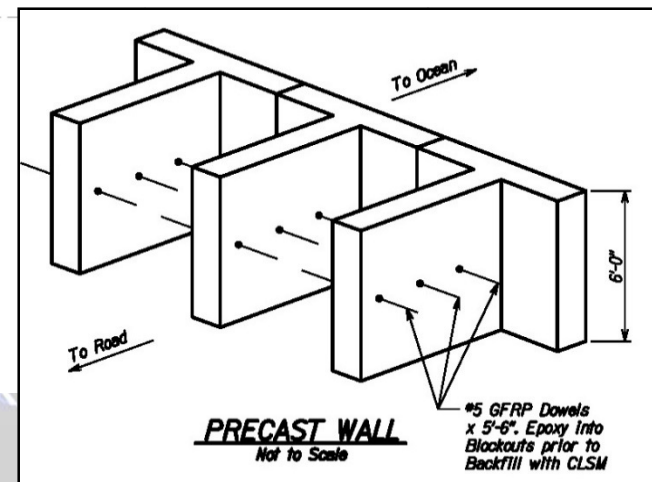


ROCK REVETMENT PRECAST WALL



Precast Wall

- ① Excavate
- ② Install 12" Thick 3B Fine
- ③ Install Precast Wall System
- ④ Backfill
- ⑤ Repave Highway



OTHER PROPOSED PROJECT ELEMENTS

- Existing roadside trees to be removed
- Existing bus stop to be relocated nearby during construction
- Resurface entire roadway width at project completion
- Archaeological monitor will be on site during all ground disturbing activities
- Contractor's staging and storage area will be located in Crouching Lion Inn parking lot



SCHEDULE

April 2015

Environmental
Permitting and
Public Input

April 2015

Engineering
Design

May 2015

Begin
Construction

**August
2015**

Complete
Construction



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LISTENING SESSION

- Questions / Comments



MAHALO

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Presentation is available for viewing at:
<http://hidot.hawaii.gov/presentations/>

Project Updates and Lane Closure Information:
<http://hidot.hawaii.gov/>



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