

Chugoku Regional Development Bureau Planning Department

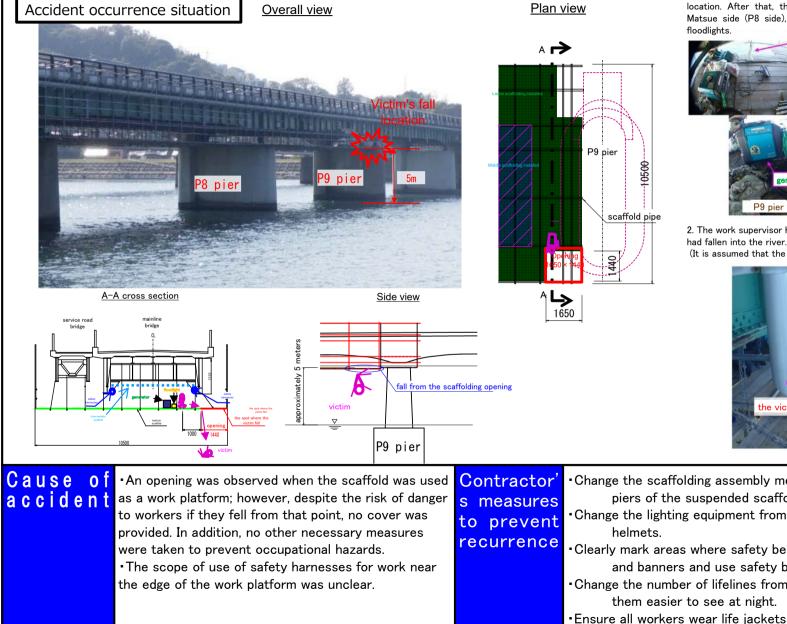
# Occupational hazard

Туре	Classifica tion	Case	Summary	
	Falls	Case 1	During bridge repair work, a worker fell from the work platform into a river while installing a suspended scaffold, resulting in death.	
		Case 2	A staircase was cut into pieces for removal, and an attempt was made to lift it with a 25-t crane; however, the staircase landing collapsed, and two victims who were on the landing fell into the riverbed with it, one of whom was injured.	
	Tipping over	Case 3	The left foot of a worker got caught between two Esper pins while carrying a scaffolding board (200 mm × 4,000 mm, approx. 18 kg) and handing it to a worker on the lower scaffolding. The worker lost balance and fell, leading to an ankle injury.	
		Case 4	A sheet pile swung while being hoisted, causing the rigging worker to get caught between the pile behind them and fall, resulting in injury to the back of their left hand.	
Occupati onal hazard	Tipping over (heavy machinery)	Case 5	Work to change a setup was being conducted without laying a steel plate. This caused the ground beneath the outrigger on the riverside to sink while the load was being turned, resulting in the 60-t crawler crane tipping over.	
	Crashes (hit by object)	Case 6	While pulling up an anchor using a lifting barge, lowering it onto the deck of a pump dredging barge, and removing the sling, the anchor, which had not been temporarily secured, fell into the river along with the victim. The anchor hit the victim, injuring their right foot.	
	Caught/ stuck	Case 7	During the production of large sandbags, a sandbag came off the sandbag-filling aid, and while reinstalling it, the right hand of a rigging worker was caught between the backhoe bucket and the sandbag-filling aid, resulting in injury.	
		Case 8	While unloading materials, a transport company driver was performing rigging work when their finger got caught. The load was pulled by the backhoe (first-tier subcontractor operation), resulting in injury to the finger.	
	Cuts/ abrasions	Case 9	While cutting brushwood into small pieces with a chainsaw, with another worker loading it manually, the brushwood became entangled with vines and other materials. The resulting movement of the brushwood caused the chainsaw blade to hit the hand of the worker cutting it, which resulted in injury.	

## **Case 1: Construction worker accident (occupational hazard) [Falls]**



# Accident During bridge repair work, a worker fell from the work platform into a river while installing a suspended scaffold, summary resulting in death. [One fatality]



1.The work supervisor moved one floodlight and one generator to the victim's location. After that, the supervisor instructed the victim to illuminate the Matsue side (P8 side), as the supervisor was relocating the remaining two for the transmission of the supervisor was relocating the remaining two for the transmission.



2. The work supervisor heard a splash and turned around to see that the victim had fallen into the river.

(It is assumed that the victim somehow went under the girder and fell.)



•Change the scaffolding assembly method to prevent openings from occurring near the piers of the suspended scaffolding.

•Change the lighting equipment from one system to two and install headlights on the helmets.

•Clearly mark areas where safety belts (harnesses) must be used with restraint ropes and banners and use safety belts when working within those areas.

•Change the number of lifelines from two to five and use fluorescent lifelines to make them easier to see at night.

•Ensure all workers wear life jackets when working on scaffolding.

## Case 2: Construction worker accident (occupational hazard) [Falls]

Chugoku Regional Development Bureau Planning Department

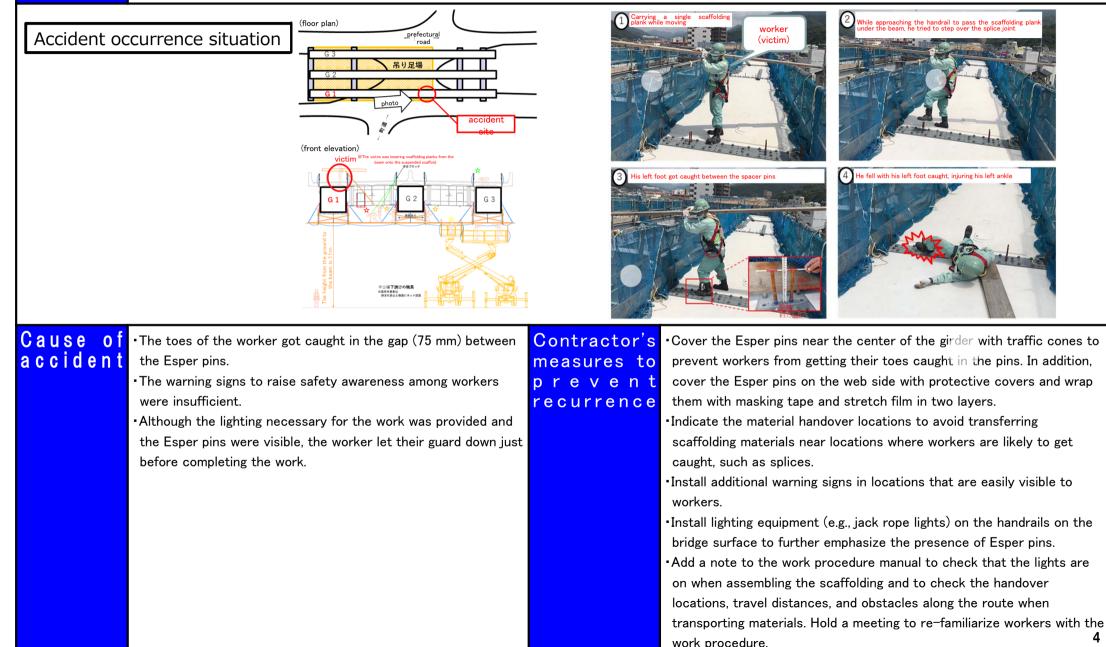
Accident While removing the steel stairs installed in the watergate operation room, two workers fell along with the stairs summary as they landed, resulting in injuries to both workers. [Two injuries (one serious, one minor)] Accident occurrence situation front elevation of the actual work Machine Control When part (8) was removed, Room part (9) fell, causing an accident 1 Ocutting <u>ര</u>ര OSteps of the Work Procedure (leaving 5 cm O The actual work procedure: removal structural drawing @cutting Cut off all fo <u>(</u>) e bottom of the longitudinal se ③⑦ Removal of the landing സ 3 the lowe Cut off all four parts at (a) cutting part o the bottom of the bottle the stairs cut three out of four anchor ര്ര ⑦ 0 cut two out of four anchor bolts holts Cause of (1) A work procedure manual was created; Contractor's (1) During the daily morning assembly, confirm the procedures in the work procedure accident however, the work was not performed measures to manual, ensure all involved parties are aware, and keep records. In addition, conduct according to the procedure. RAKY based on the work procedure manual and ensure that the staff of the main event (2) The handover between the person who ecurrence contractor participates. worked during the day and the person who Ensure that the staff of the main contractor and the safety officer of the subcontractor worked at night was not sufficiently thorough. check whether the work is being performed in accordance with the work procedure (3) If the worker had performed the lifting work manual and RAKY and keep a record of it. after completing the rigging work and had (2) The staff of the main contractor should keep a record of work that continues completely descended the stairs instead of the overnight by taking photographs and drawings at the end of the work. landing before performing the lifting work, the When taking over from the night to day shift, the staff of the main contractor should worker would not have been involved in the fall. confirm and communicate any issues to the day and night shift foremen and workers at the morning assembly. Conversely, when taking over from day to night, the staff of the main contractor should communicate any issues to the night shift foremen and workers after communicating them to the main contractor. (3) During lifting work, if the possibility of contact exists or the scaffolding is unstable, the staff should go to a safe place and carry out the work.

## Case 3: Construction worker accident (occupational hazard) [Tipping over]



Chugoku Regional Development Bureau Planning Department

Accident The left foot of a worker got caught between two Esper pins at the top joint of a steel box girder. The worker summary lost balance and fell, leading to an ankle injury. [One injury]

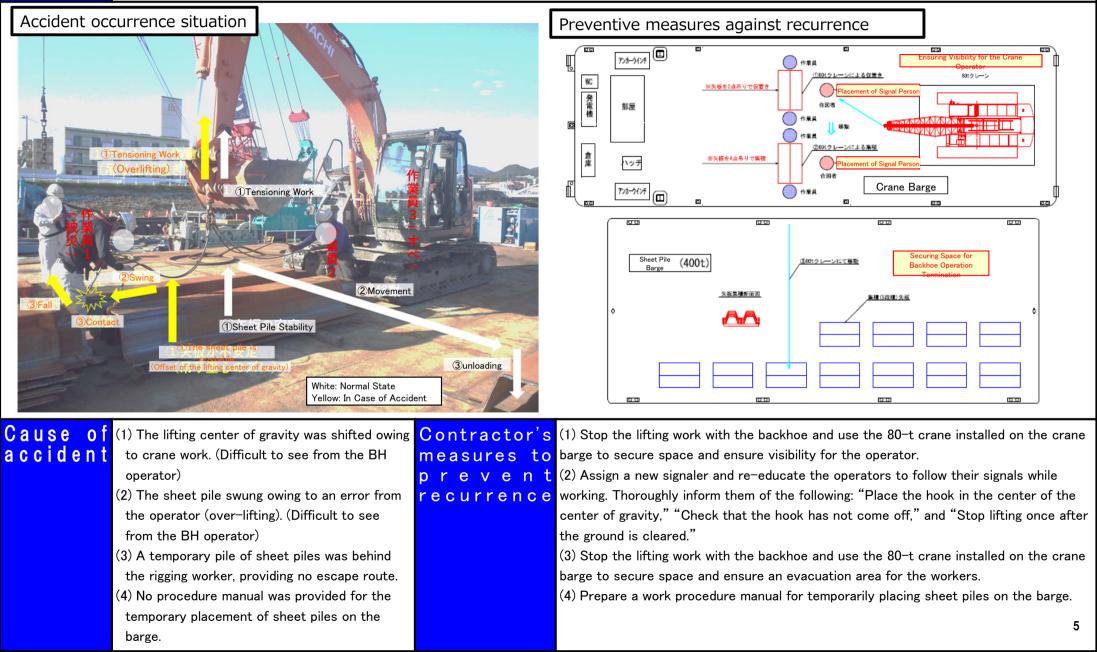


## Case 4: Construction worker accident (occupational hazard) [Tipping over]



Chugoku Regional Development Bureau Planning Department

A sheet pile swung while being hoisted, causing the rigging worker to get caught between the pile behind them Accident summary and fall, resulting in injury to the back of their left hand. [One injury]



#### Case 5: Construction worker accident (occupational hazard) [Tipping over (heavy Chugoku Regional Development Bureau Planning Department machinery)]

Work to change a setup was being conducted without laying a steel plate. This caused the ground beneath the Accident outrigger on the riverside to sink while the load was being turned, resulting in the 60-t crawler crane tipping summarv over. [No injuries]

Accident occurrence situation





### Cause of accident

Cofferdam sheet piles were being driven owing to parallel construction work involving the revetment. The accident occurred while driving the sheet piles with a 60-t crawler crane. The setup was being changed (moving  $5 \times 10$  steel plates weighing about 900 kg) to drive the sheet piles in the next area.

The changeover work was conducted without laying the steel plate, which caused the ground under the outrigger on the riverside to sink while the load was being turned, causing the 60t crawler crane to tip over.

Contractor's

•Add "crawler crane relocation work" to the work procedure manual. measures to (i) Assign controllers during the steel plate relocation work. prevent (ii) Use a crane-equipped backhoe for the steel plate relocation work. recurrence • Add the construction plan for the work to the work procedure manual

and read it over again with the relevant workers to raise awareness of the importance of using the steel plate. In addition, always educate new entrants.

 Check the construction plan during on-site KY activities before starting work.

•As with the main sheet pile work, ensure the main contractor is present for each task during the steel plate relocation work, and keep an inspection record in the daily inspection report.

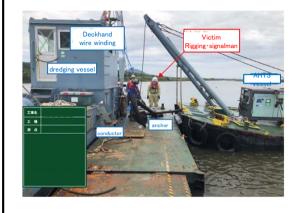
Case 6: Construction worker accident (occupational hazard) [Crashes (hit by object)]

Chugoku Regional Development Bureau Planning Department

↓ "No entry" sign

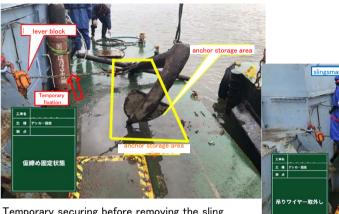
While pulling up an anchor using a lifting barge, lowering it onto the deck of a pump dredging barge, and removing A c c i d e n t the sling, the anchor, which had not been temporarily secured, fell into the river along with the victim. The anchor summary hit the victim, injuring their right foot. [One injury]

#### Accident occurrence situation





#### Measures to prevent recurrence



Temporary securing before removing the sling

#### Cause of accident

 Although a work procedure manual for dredging work was available, a work procedure manual for temporarily placing the anchor was not provided.

The victim removed the sling wire while lowering the anchor without checking the condition of the anchor.

• The anchor was not secured after removing the sling wire: however, the victim entered the vicinity of the anchor, which was not a passageway, while moving to retrieve a can of diesel fuel for the pump dredging barge loaded onto the anchor lifting barge. •The supervisor removed the sling wire when the victim placed the anchor in an unstable manner but left the area to prepare the securing device without giving instructions to the victim. In addition, the other deckhand was winding the anchor wire, so they could not see the damaged area and could not warn the victim.

### Contractor's prevent recurrence

 Create a work procedure manual for temporary anchor placement and measures to provide retraining.

> •Do not perform other work until the anchor is secured. In addition, do not enter the restricted area until the anchor is secured.

• Set the procedure for temporary anchor placement as follows, and do not remove the sling wire immediately after the anchor is lowered.

(1) Determine the location for lowering the anchor on the pump dredging barge, surround the temporary location with magnetic poles, and post a "no entry" sign.

(2) Land the anchor hoisted by the anchor lifting barge at the temporary location on the pump dredging barge, check the position and balance while hanging from the sling, temporarily secure it, remove the sling wire, secure it permanently, and check the securing condition.

 Ensure the work supervisor remains in the work area and gives instructions regarding the work.

• Thoroughly re-educate workers on the dangers of working onboard through safety training.

## **Case 7: Construction worker accident** (occupational hazard) [Caught / stuck]



Chugoku Regional Development Bureau Planning Department

Accident An injury occurred when the right hand of a worker was caught between a sandbag-making auxiliary tool and a summary backhoe bucket while making a large sandbag. [One injury]

Accident occurrence situation



## Cause of

•This accident occurred while making a sandbag, in which **accident** the sandbag-filling aid suddenly came off. The right hand of the rigging worker got caught between the backhoe bucket and the sandbag-filling aid while placing the sandbag on the crane device again on the backhoe, resulting in injury. This occurred in the process of reinstalling the sandbag.

•The accident is believed to have occurred because the controller neglected to take the necessary precautions to guide the backhoe, despite the rigging worker being within the working radius of the heavy equipment.

**Contractor's** I have event of an unforeseen incident, stop the work measures to immediately and do not resume until safety is confirmed. In **prevent** addition, contact the supervising engineer immediately. Resume **recurrence** construction after reviewing and adding any necessary notes. · Conduct checks to see if the position of the controller has a blind spot, such as at the bucket. The controller should only signal to resume work after ensuring that no workers are within the working radius, including the blind spot.

## Case 8: Construction worker accident (occupational hazard) [Caught/stuck]



0.45m<sup>3</sup> backhoe

Accident A sling was placed on materials being unloaded by pulling using heavy machinery. The hand of a worker was summary caught, trapping their fingers, which resulted in injury. [One injury]

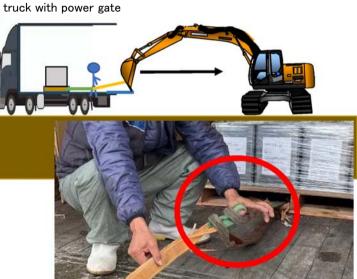
#### Accident occurrence situation



truck with power gate



0.45m<sup>3</sup> backhoe



(1) An attempt was made to hook a nylon sling onto a backhoe to pull out the materials; however, the sling did not reach the backhoe.
\*Using a backhoe for an unintended purpose

(2) As the sling did not reach the backhoe, the hand holding the nylon sling was caught in the backhoe when the bucket was pulled to move the backhoe, resulting in the thumb being severed.

Cause of accident	conducted in a different way without reporting to the main contractor. •Use of equipment for an unintended purpose (pushing	recurrence	propoduro monuel while working		

## Case 9: Construction worker accident (occupational hazard) [Cuts/abrasions]

ns]

Accident summary While cutting brushwood into small pieces with a chainsaw, with another worker was loading it manually, the brushwood became entangled with vines and other materials. The resulting movement of the brushwood caused the chainsaw blade to hit the hand of the worker cutting it, which resulted in injury. [One injury]

Accident occurrence situation (image)



#### Cause of accident

•When the worker was loading the brushwood after the chopping work was completed, they tried to load it without checking that the brushwood undergoing cutting was entangled with vines and other materials.

•The main contractor did not provide the necessary guidance to subcontractors, such as precautions to take when using chainsaws and wearing protective clothing.

Contractor's measures to p r e v e n t recurrence

Separate the task of tree-cutting from that of transporting accumulated
 brushwood for safety considerations.

**prevent** • Require that all workers undergo hazard awareness training to improve **recurrence** safety awareness.

Establish specific work procedures for felling trees with chainsaws and review the procedures during morning assemblies before work begins.
Wear cut-resistant gloves and protective clothing for the lower extremities when felling trees with chainsaws.



# **Public hazard**

Туре	Classificati on	Case	Summary			
Public disast er	Damage to buried objects, etc.	Case 10	Damage to buried water pipes (one store) during floor digging using a small backhoe.			
		Case 11	During excavation work to lay pipes on the sidewalk, the bucket of a backhoe came into contact with an unidentified water distribution pipe facility and damaged it.			
		$C_{2} = 12$	During concrete chipping work to determine the position of the sidewalk's hanging hardware in the renewal of an overhanging sidewalk, a buried communication cable (φ65mm) was damaged.			
			During filling and shaping work on the slope of a levee using a 0.25m3 backhoe as part of embankment slope repair work, the protective tube of a crisis management water level gauge buried in the ground was caught and damaged.			
		Case 14	A boring machine that was used to drill holes for anchors during the construction of a retaining wall (natural ground reinforcement soil), came into contact with an information box and damaged it.			
	General vehicle damage	Case 15	When the backhoe was turning, the arm came into contact with an overhead line (communication line), damaging the cable fixing bracket, and the bracket came loose and fell onto the city road, after which a general vehicle passed by, damaging the vehicle's body.			
		Case 16	A solar rotating light installed near a parking area for one-way alternating traffic restriction was knocked over by a gust of wind, and came into contact with a parked general vehicle, damaging it.			
	Facility damage		During work to update the lighting in a tunnel, the lighting control line laid on the cable rack was mistaken for an optic cable for road management, and the optical cable was accidentally cut.			
	Personal injury accidents		A single-tube barricade was used to prevent entry to the business site as a parking lot for construction workers, but the victim tripped over a step of about 3.5 cm that remained on the business site and leaned onto the single-tube barricade, "falling" along with the single-tube barricade to the bottom of the embankment (H = approx. 4.4 m), resulting in injury.			
	Overhead line damage		During the work of pouring crushed stone for the foundation of the staircase construction, a backhoe came into contact with the power line of the sluice gate when it turned and severed the power line.			
		Case 20	When a truck with a 4 t crane was transporting scaffolding materials and entering the national highway, it neglected to retract the boom, catching the overhead line and causing the utility pole to tilt.			
		Case 21	During floor excavation work to install a retaining wall on a public-private section boundary, a power pole was tilted and the cable (communication line) was damaged.			
			When the backhoe that was used to load the base reinforcement blocks was moving after completing the work, its arm came into contact with the communication line, causing the utility pole to tilt and the wire to sag, and also cutting the lifting wire supporting the load of the communication line.			
			After concrete was poured, a 0.45m3 backhoe came into contact with an overhead line (electricity) while moving, causing damage.			



Accident Damage to buried water pipes (one store) during floor digging using a small backhoe. [Buried pipe damage]

### Accident occurrence situation





## Cause of

**accident** the location and depth of the pipes were not explicit. · Although the construction was carefully conducted, the water supply pipe was installed shallower than expected, causing it to come into contact with and be damaged by the backhoe bucket.

# **prevent** patrols. recurrence

·During a prior consultation with the waterworks manager, Contractor's ·Add items for buried objects and overhead lines to the checklist measures to for internal safety patrols. Confirm and warn site personnel during

> ·Manually excavate near the buried object and make a thorough visual confirmation of buried objects.

·Post signboards and actual objects at the location of the buried object to make it "visible."

·In addition, collect information from residents near the site to confirm the presence or absence of buried objects and consider the data.

survey was conducted. The manager indicated that no

Thus, the workers let their guard down.

owing to water pressure.

prioritized the restoration work for the leak.

unknown facilities were nearby, considering the relative positions of the water supply pipes ahead and behind.

•The workers forgot to contact the client because they

installed using a simple method; however, the pipe leaked

•The stop valve of the buried water supply pipe was



Chugoku Regional Development Bureau Planning Department

Excavation work was conducted while checking the pipes laid underneath the sidewalk. Heavy machinery was Accident used to remove soil that had been excavated by hand, which came into contact with and damaged a water supply summarv pipe (closed) not listed on the ledger. [Buried pipe damage] drainpipe Accident occurrence situation Plan view leakage point 車道 water supply pipe  $\sqrt{\phi 100}$ 300 歩道 006 450 水路 車 道 leakage point Cross-section 1200 water supply pipe drainpipe ¢100 十码 200 步道 450 側溝 Cause of • The existence of unknown facilities (e.g., closed parts) **Contractor's** • Do not place too much faith in the preliminary survey results. On accident not listed in the ledger was made known in prior measures to days when work is to be done near buried pipes, instruct workers discussions with the manager, and a trial excavation <u>preven</u> to work with caution, thoroughly informing them in the work

> **recurrence** instructions of the possible presence of unknown facilities. •Ensure to promptly report the emergency to the client and take appropriate measures.

> > ·Share the construction process with the manager, and if a similar structure is confirmed, contact the manager and carry out construction while checking the soundness and taking appropriate measures.

**(ge)** Chugoku Regional Development Bureau Planning Department

Accident A buried communication cable ( $\phi$  = 65 mm) was damaged during concrete chipping work to renew an summary overhanging sidewalk by determining the position of its hanging hardware. [Buried cable damage] [Damage situation] [Cross-section] Accident occurrence situation タイプF9-1 0000 FEP 65 X + & 情報ボックス部 測点 (86.772 ~ 86.922) 情報ポックス本休 さや管 細立曲道熱 材質 特殊部 波状管 寸 法 新面図参照 φ 65**m** 送 長 (m) 150 埋設位置 (m) 5.2(R) ~ 5.5(R) 埋設深さ(m) 0.2 • The information in the management ledger was **Contractor's** • Temporarily suspend work if an event that differs from the Cause of accident overconfident, and the work plan was created without measures to work plan for the day occurs, hold consultations with the main contractor, and revise the work plan before work is resumed. directly checking the location of the buried pipes or <u>preven</u> **recurrence** • Share the purpose and intent of the work in daily KY activities understanding the detailed structure, after which instructions were given to the subcontractor. and promptly share information (report, liaise, and consult) in •Work continued despite the situation being different response to changes to the situation while conducting the work Information box ledger (excerpt) from the assumption made for the underground buried with appropriate judgment. facility in the management ledger. ·After the detailed structure is understood, check the location of ·Work was conducted with the preconceived notion that the buried pipe directly without relying too much on the the pipes were inside the roadbed material; however, as management ledger. no crushed stone was found, work continued, and the work was conducted beyond the buried depth recorded in the ledger. •Discussions were held on the assumption that work would be conducted after relocating the cable; however, no new consultation was made despite changing the work to before the relocation.



Accident The protective pipe of a water level gauge buried in the ground got caught and damaged when repairing the summary slope of a levee by filling holes and shaping the slope with a backhoe. [Buried pipe damage]

Accident occurrence situation



#### Cause of accident

Obstacles and piping were not checked in advance using ledgers, and the location of the piping was unknown.
An obstacle (water level gauge) was observed on site, and the main body of the water level gauge was also on the levee; however, the water level gauge pipe was not noticed when checking the repair area on site before conducting the repair.

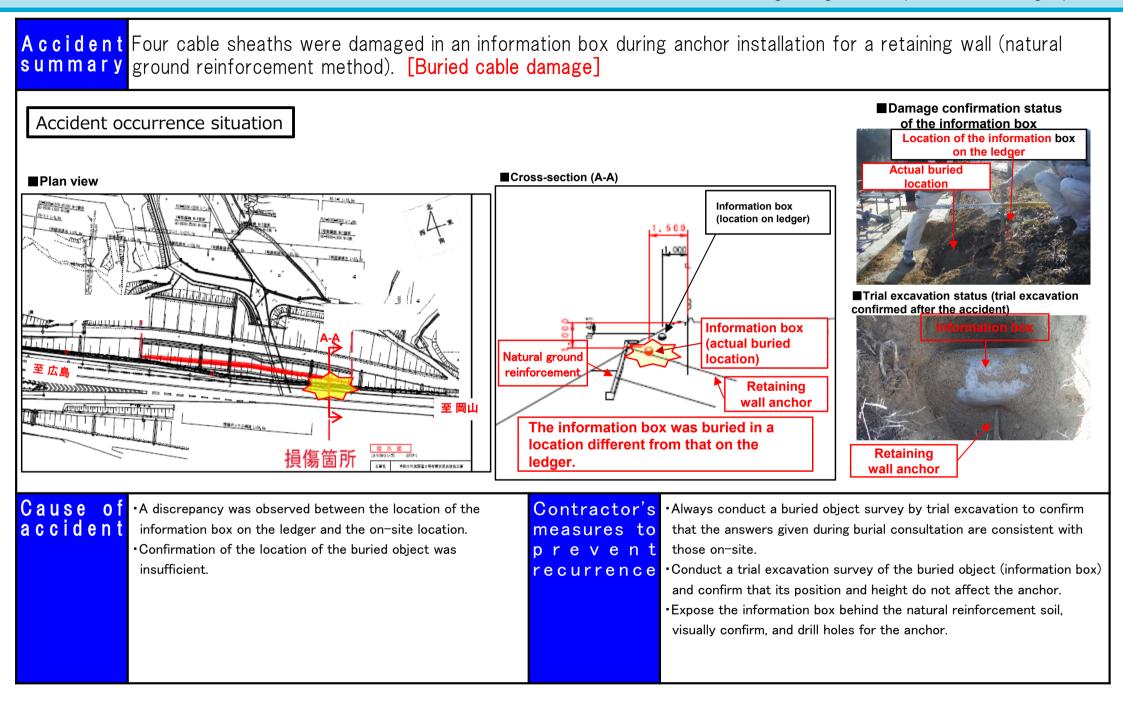
Contractor's measures to p r e v e n t recurrence

 Check for obstacles in advance using the ledger provided by the client.

**prevent** ·Report to the supervisor and obtain information if details about **recurrence** the obstacle are unclear.

Have the supervising engineer and work chief of the subcontractor check the surrounding area to confirm the presence of any obstacles and the repair procedure when inspecting the repair area before conducting repair work.
If the heavy equipment operator has difficulty seeing the end of the bucket while working, have a supervisor stationed to eliminate blind spots and guide the operator.

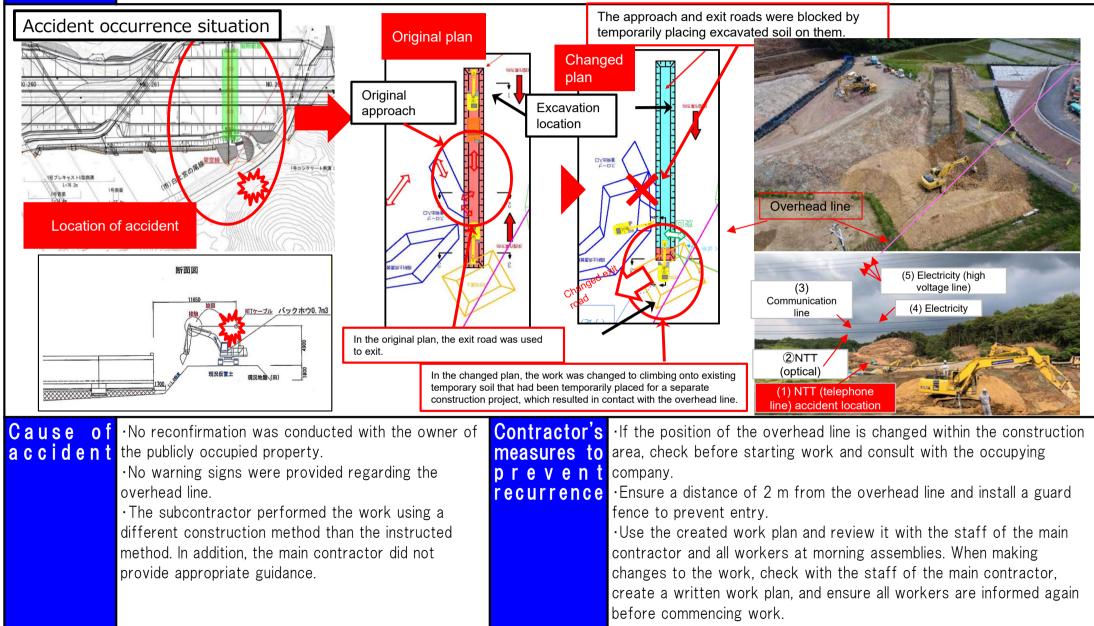






Chugoku Regional Development Bureau Planning Department

Accident summary The arm of a backhoe came into contact with an overhead line (NTT) during a turn, damaging the cable fixing passing vehicle. [General vehicle damage]



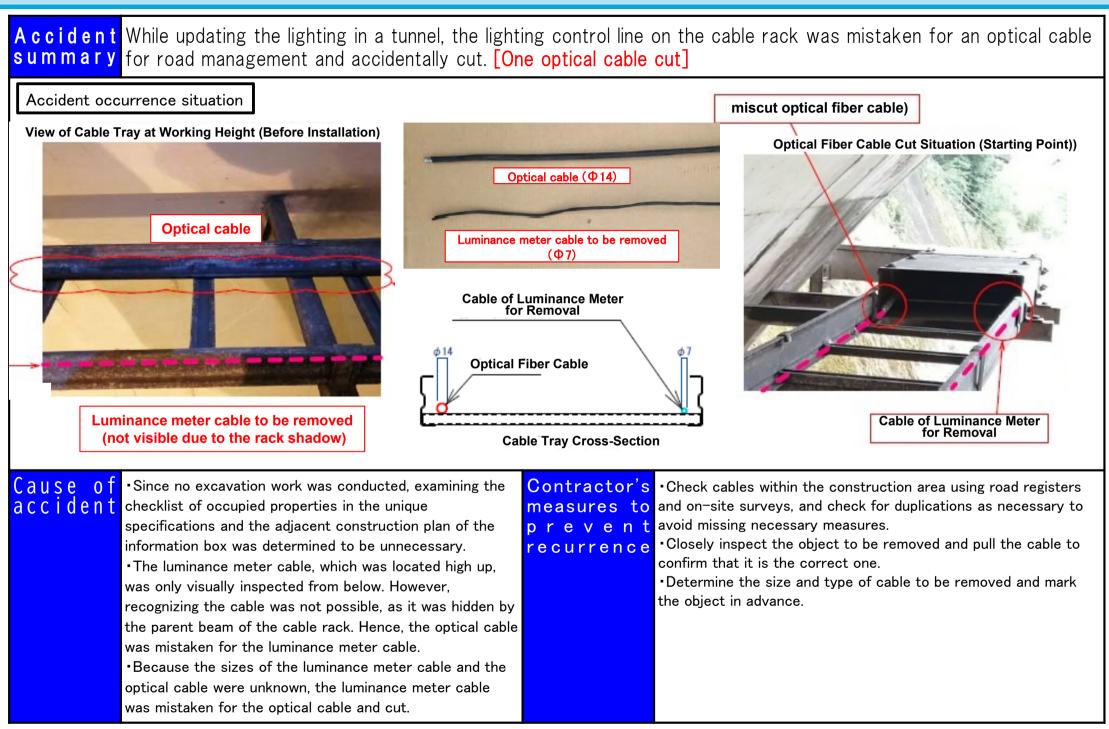




## Case 17: Public damage accident (public hazard) [Facility damage]



Chugoku Regional Development Bureau Planning Department



## **Case 18:** Public damage accident (public hazard) [Personal injury accidents]

Chugoku Regional Development Bureau Planning Department

Accident The victim (third party) got injured after tripping over a step on the business site, falling over a single-pipe summary barricade, and then under the bank with the single-pipe barricade. [One injury]

Accident occurrence situation



#### Measures to prevent recurrence



1) Regarding the victim "tripping over" Cause of accident •The contractor removed the traffic rope that the river administrator had installed as a measure to prevent entry before the start of construction to provide a waiting area for vehicles and installed a single-pipe barricade closer to the riverside bank than the original position, enabling third parties to approach the steps on the business site.

> •Barricades were installed to make it safer: however, tripping over the steps was unexpected.

2) Regarding the victim's "fall"

•The victim was startled by the headlights of a car and hurriedly tried to escape, tripping over a step, crashing into a single-pipe barricade, and falling under the bank (H = approx. 4.4 m) along with the barricade.

Contractor s measures recurrence

1) Regarding the victim "tripping over"

 Surround the area where the incident occurred with a singleto prevent pipe barricade to prevent third parties from approaching. •Post "no entry" signs, lock the area daily, and install selfluminous lights to improve visibility at night.

2) Regarding the victim's "fall"

Install the single-pipe barricade away from the bank and secure it with rebar and other materials.

3) Regarding the management of the construction site •Integrate the construction site with the construction work and note whether the business land within the river area will be used for construction work in writing (e.g., a construction plan) so that the river administrator and contractor can be aware.

Chugoku Regional Development Bureau Planning Department

Accident While pouring crushed stone for the foundation of a staircase under construction, a backhoe came into contact summary with and damaged the power line of the sluice gate during a turn. [One overhead line cut]

Accident occurrence situation



Measures to prevent recurrence



#### Cause of accident

While the backhoe was moving along the top of the embankment to pour and level the foundation of the staircase, the arm of the backhoe came into contact with the power lead-in line (for powering the culvert) that crosses above the top of the embankment, and the power line was cut.

prevent recurrence monitors.

**Contractor's** • For a self-propelled backhoe, self-propel with a boom height that measures to considers the building limit. •Post signboards to warn about overhead lines and station • Share the work schedule with all workers through weekly schedules and ensure thorough implementation for all tasks.

> • Check the work procedure manual and do not perform any unplanned work or placement.

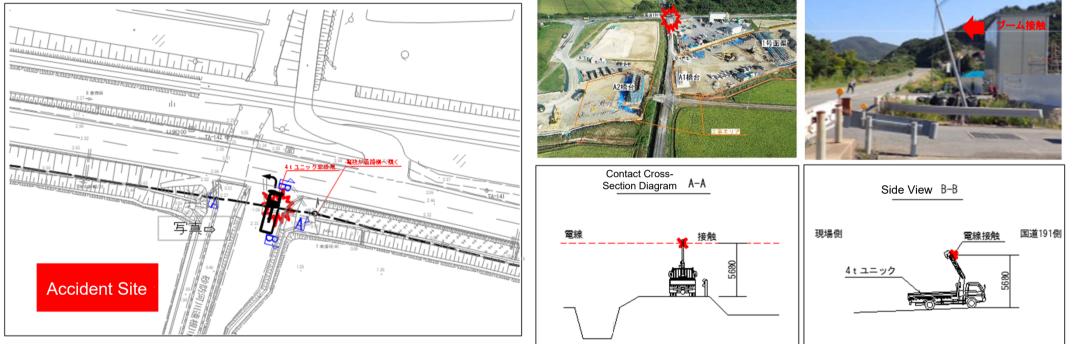
•Thoroughly check the qualifications of backhoe operators and never allow unqualified personnel to perform work.

Accident

summary



Workers forgot to store the boom of the crane when transporting scaffolding materials loaded onto a crane truck (4 t). Consequently, the boom came into contact with the overhead line and tilted the utility pole. [One utility pole tilted] Accident occurrence situation



	<ul> <li>Contractor's measures to p r e v e n t recurrence</li> <li>Place a "boom storage/check surroundings" reminder in a position that will be noticeable when opening and closing the door.</li> <li>Install a gate-type gate. (H = 3.8 m)</li> <li>Establish and create awareness surrounding exit rules (passing through a gate-type gate/checking the state of the package in a full-length mirror).</li> <li>Install a stop line in front of the gate.</li> <li>Place an overhead line reminder flag near the overhead line.</li> </ul>
--	---

## Case 21: Public damage accident (public hazard) [Overhead line damage]



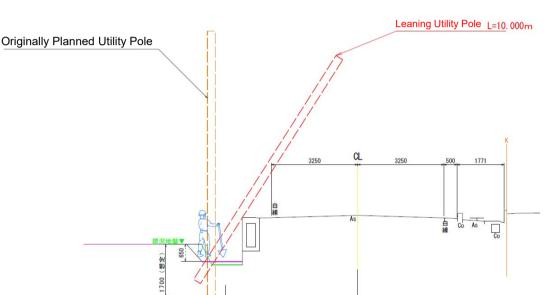
Chugoku Regional Development Bureau Planning Department

Accident summary cable/communication line). [One overhead line cut]

### Accident occurrence situation



embedding was secured.



Cause of ·Since heavy machinery and cranes that could affect the Contractor's •Be sure to consult with the facility manager when an overhead accident overhead line were not used, no discussions were held line is within the construction area, even if it does not directly measures to affect the construction. with the pole manager. prevent · Check the utility poles and overhead lines within the •The embedded depth of the pole was not confirmed with recurrence construction area using the road register and on-site survey, and the pole manager, and construction was conducted based check for overlaps as necessary to avoid missing necessary on the general embedding procedure communicated by the measures. pole construction company and from past experience. •Temporarily halt work if the site manager of the main contractor •The ground soil was relatively loose and could be determines that the soil is prone to collapse during excavation, manually excavated; however, work continued because it then reconsider whether to continue construction. was determined that the machine would not tip over if the

Chugoku Regional Development Bureau Planning Department

Accident While moving, the boom of the backhoe came into contact with the communication line, tilting the utility pole and summary cutting the hoisting wire of the communication line. [Utility pole tilted; one overhead line (hoisting wire) cut]

Accident occurrence situation

C a



Measures to prevent recurrence



	s measures to prevent recurrence	<ul> <li>Install a height limit tower 5 m in front of and behind the overhead line.</li> <li>Assign new full-time safety patrol officers who will conduct safety patrols to ensure work safety.</li> <li>Hold emergency safety meetings to raise awareness of safety management.</li> <li>Use a 4-t crane truck to conduct loading work instead of a backhoe (mobile crane specification).</li> <li>Level and compact the loading area and runway to eliminate unevenness.</li> <li>Have the site representative and supervising engineer check and begin work when implementing countermeasures.</li> </ul>
--	--	--



