MUNDESLEY LOCAL LIAISON GROUP MEETING

04/11/21
14:02-15:33

Present:

Angie Fitch-Tillett- Coastal Portfolio Holder, NNDC
Rob Goodliffe – Coastal Manager (North), NNDC & CPE
Brian Farrow – Senior Coastal Engineer, NNDC & CPE
Fiona Keenaghan – Assistant Coastal Engineer, NNDC & CPE
Thomas Walker – Coastal Management Technical Support Officer, NNDC & CPE
Nick Clarke – Mott Macdonald
John Lavery – Mott Macdonald
Chris Payne – Mundesley Parish Council and Lifeboat
Brian Shaw – Chair of Mundesley Lifeboat
Bob Francis – Mundesley Lifeboat Trustee and Treasurer
Andy Pardon – Fisherman
David Harding – Parish Council

Apologies:

Wendy Fredericks – Councillor for Mundesley Ward, NNDC
Ben Kewell – Glide Surf School

Item	Description - Lead	Actions
1.0	**Welcome And Introductions – Angie Fitch-Tillett**	
	Angie welcomes everyone to the meeting. Introductions.	
2.0	**Agree Previous Minutes – Angie Fitch-Tillett**	
	Go through previous meeting minutes: all correct.	
3.0	**Update from Last Meeting to Now – NNDC**	
	Fiona thanks those attending. Since Previous Meeting: 3.1 - Environmental Scoping Report has been reviewed by the planners at NNDC with positive feedback, awaiting feedback from the MMO 3.2 - Working on funding and budgeting works: awaiting indicative costs from the design. Due to Covid, Brexit, etc., increase in prices, investigating further funding if needed. 3.3 - Receiving detailed designs next week from our Consultants. 3.4 - Contract is planned to be awarded early next year (2022) – subject to other factors.	
4.0	**Detailed Design and Consents & Programme– Motts**	

	Propose that people move around the room to view documents. Highlighters and post it notes supplied so that people can make notes on documents. Aerial walk over of frontage, pointing out key features and a look at technical drawings and cross sections:	
4.1	**First set of drawings – far west:**	
4.1.1	- **Kiln cliff Outfall on groyne marks the end of protected frontage for Mundesley.**	
4.1.2	- **Proposal to put rock breakwater structure to form stockpile of rocks which NNDC will utilise as other defences fail over next 10-20 years. Quantity of rock depends on NNDC budget for scheme. Will put into areas at most risk of cliff erosion/most at risk assets. Placing rock on beach behind timber- not dug in, no separator. Need to attain this stockpile now, whilst we have funding. Plan to buy as much rock as can afford, would be surprised if we completely fill pink section on drawing. Can place rocks to maximise cliff protection.**	
4.1.3	- **Rock will continue past timber breastwork to the steel framed revetment.**	
	Question from Andy: Will rock fall on people, or cause other dangers?	
	Answer: No, in 27 years of rock at Sheringham and Sea Palling we've had one incident, which was caused by a freak accident. People are aware of the dangers.	
	Question from Rob: Accumulation of sand around rocks/sheet piles. Is there any benefit of putting some rocks in front of revetment to keep it defending for longer?	
	Answer: Keep it behind, stockpile will be easier. We would continue to maintain timber structure as long as possible. Rocks work better at toe of cliff.	
4.2	**Second set of drawings:**	
4.2.1	- **This section will be the formally designed rock revetment placed in front of failing structure. Takes up some of beach frontage, width has been kept as small as possible to prevent beach loss.**	
4.2.2	- **Looking to efficiencies to reduce depth. Designed to textbook standard, but site particularities will be considered in future drawings.**	
4.2.3	- **A portion will be buried under beach for when beach level drops. Designed so that if beach is reduced, rocks will be stable.**	
	Question from Chris: Will there be a path between rocks for access?	
	Answer: Yes, a sep of steps will be put in at the toe of the old ramp.	
	Question from Angie: As steel disintegrates, will there be a risk of people stepping on it/tripping on it?	
	Answer: Aim in putting rocks in front is to keep people away from failing structure.	
	Question from Bob: Will people be able to get past rock revetment, walkway?	
	Answer: May be something to look at to prevent people going behind rocks for safety. There are rock structures at Overstrand and Happisburgh, it's not been an issue there. Can probably deal with this with signage.	
	Question from Angie: Where will rock be sourced?	

	Answer: Probably Scandinavia as tough material; will come on barge. Certain types of rock based on hardness and durability. More carbon efficient to ship it than to bring it across land.	
4.3	**Third set of drawings – at the sea wall at Mundesley, with beach huts:**	
4.3.1	- **Encasement of existing apron and seawall where previous repairs have broken up or new repairs are needed due to storm damage**	
4.3.2	- **Will be drilling in dowels and casting concrete surface (brushed).**	
4.3.3	- **Concrete encasement down the front of sheet piles, protecting interface between sheet piles and top of apron, to stop problems with the interface. Thin veneer of reinforced concrete (about six inches).**	
4.3.4	- **Slope behind beach huts: install Grasscrete panels, covered with top soil and grasses. Concrete toe beam along bottom. Similar to that used at Cart Gap and Sheringham. Will withstand big sea and scour. At Sheringham wasn't touched in 2013, whereas lost half of Cromer slope. Beam at top and bottom holds it together. Will be tied into concrete blocks where walkway is. Structure will allow water to pass through. Can barely see it at Sheringham.**	
	Question from Chris: Biggest enemy is groundwater, is there a worry about water run-off?	
	Answer: We can look at that. Structure will allow water to pass through.	
	Question from Chris: How much wider will prom be?	
	Answer: In discussions with consultants about widening other sections of the promenade, will update on total extent of promenade being widened at next meeting.	
4.4	**Fourth set of drawings:**	
4.4.1	- **Continue along with casing to river Mun, as well as casing apron.**	
4.4.2	- **Installing full rock revetment between river Mun and lifeboat station. Need to look at where rock meets ramp.**	
4.4.3	- **Would like to put in small rock revetment on end. Proposing to put 15-20 metre revetment to proactively manage transition between hard structure and soft cliffs. Rock revetment can be realigned, helping to stop outflanking. Subject to agreement with natural England as they may not want to set precedent of 'extending hold the line'. Agreement with North Norfolk that it doesn't go further, just rotates as cliff falls.**	
4.4.4	- **Widened lower apron level by lifeboat station to allow plant/machinery to access the beach from the east. Future proofing this area.**	
4.4.6	- **New metal steps to improve access from beach to seawall.**	
	Question from Rob: Does the structure [Rock Revetment] manage scour?	
	Answer: It will work a lot better, rocks will improve efficiency of the beach. Have seen undermining of apron – rock will prevent that, will maintain beach. Poor quality rock is not very efficient, new rock will be much better.	

4.5	**Groynes:**	
4.5.1	- **Where groynes are significantly eroded, will recommend planks etc. are replaced like for like.**	
4.5.2	- **Beacons – replaced with slightly different version and put pile out which beacon sits on. Slightly further seaward but more stable. Only replacing those that are in poor state.**	
4.5.3	- **Will have a beacon near ramp, and at significant points in groyne fields. Want to reduce number of beacons after we have been in discussion with Trinity House. Because beaches are dropping we have to think 'where will groynes (and beacons) be in ten years' time?'**	
	Question from Bob: Would there be the possibility of a second beacon as it's difficult to see current beacon alignment at night.	
	Answer: Discussion. Could move beacon one groyne along towards lifeboat station.	
4.6	**On top of promenade - starting at beach café:**	
4.6.1	- **Platform with steps down, as you come down you drop down and walk along- existing steps down to access point.**	
4.6.2	- **Totally revised layout: Raise dark blue length to be a flat level. Access compliant ramp will bring to same level. Planning on raising promenade to same level.**	
4.6.3	- **Resetting of bottom of steps and addressing of settlement.**	
4.6.4	- **Levelling out of platform and putting in three steps of equal size. Encasing rest of apron so will be six inches wider. Adds one additional step.**	
4.6.5	- **There will be surface repairs to promenade. Ground penetrating radar survey has been undertaken and some potential voids have been identified break out some areas and investigate then complete remedial works**	
4.6.6	- **Also putting in set of steel steps that will come down to beach. Proposal is that in time this would be adopted as preferred coastal route.**	
	Question from Chris: There is a piece of concrete that sticks out on the promenade, can that be straightened/removed to improve access?	
	Answer: We are looking into it.	
	Question from Rob, to group: Is everyone feeling good about levelling out of promenade?	
	Answer: Yes, improvement on what's there now. Doesn't prevent future steps etc.	
4.7	**Further Questions:**	
	Bob: Have we had funding?	
	Answer: Yes, £20,000 from parish council, approx. £300,000 from District Council, ~£250,000 from Anglian Water, Grant in Aid (GiA) from Environment Agency. Confident scheme will go ahead; Agency is keen for scheme to go ahead, may need to seek additional GiA. Stockpile of rock will be dependent on amount of funding. Get everything we can now, as much rock as we can, so prepared for future.	
	Bob: When will it happen?	

	Answer: Without being too specific, depends on consenting, still looking at scoping document. About to start work on environmental statement. After consent is approved can move forward to construction, which itself depends on lead time for materials etc. Best case scenario is to plan for first part of next year. Will try to avoid peak tourist season, so may take two or three campaigns. Rock may take some time, whilst waiting for this, work could be completed on groynes etc. Early next year will be more certain of time frames. *David: Will there be a full public consultation?* *Answer: Local Liaisons for now. Will be building website. NNDC Comms team will push it on social media. Boards to explain scheme, leaflets will be given to businesses along promenade.* *Chris: Where will be main access?* *Answer: Beach Road. Biggest access point. Anything really big will come from Shell (Bacton).* *Bob: Can you improve area for parking for Lifeboat Station? Lots of cars there on callouts. Loose stone or sand to bind together parking area behind station, which is currently pebbles; some people don't like to drive on this material.* *Answer: Conversation to be had.* *Bob: Can we get some sand in soon so that lifeboat crew can park there?* *Answer: Brian will have discussion. Depends on who owns what.* *Andy: Will there be a lot of rubbish/refuse?* *Answer: Can't see there being a lot. Considerate Contractor, will be liaising with locals to let them know when things are happening.*	
5.0	**AOB – All**	
	You may see some surveyors. Rob thanks for use of lifeboat station and for coming. Angie thanks everyone. Next meeting will be in January. Meeting ends 15:33.	