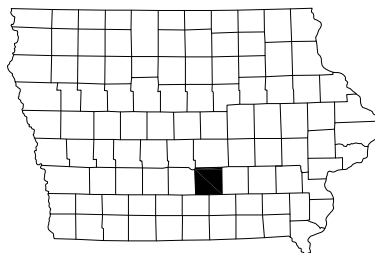


IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR ELK ROCK STATE PARK SHORELINE ARMORING

MARION COUNTY, IOWA

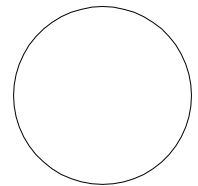
PROJECT #15-05-63-02



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A.02	PROJECT LOCATION
G.002	SCOPE OF WORKS AND GENERAL NOTES
C.01	ESTIMATED QUANTITIES
C.103	SITE PLAN
C.305	CROSS SECTIONS
C.306	CROSS SECTIONS
C.307	CROSS SECTIONS
C.308	CROSS SECTIONS

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



COVER SHEET

SHORELINE ARMORING FOR:

ELK ROCK STATE PARK

MARION COUNTY, IA

DIRECTORY

PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 EAST 9TH STREET	ADDRESS	806 E TRAIL RIDGE PLACE
CITY, STATE, ZIP	DES MOINES, IA 50319	CITY, STATE, ZIP	INDIANOLA, IA 50125
CONTACT	EMMANUEL SANG	CONTACT	JASON KRUSE
TELEPHONE	515-321-7005	TELEPHONE	515-250-3707
FAX		FAX	
EMAIL	Emmanuel.Sang@dnr.iowa.gov	EMAIL	Jason.Kruse@dnr.iowa.gov

PROJECT DESCRIPTION

THIS PROJECT INVOLVES GRADING THE SLOPES AT 1.75H : 1V AND PLACEMENT OF RIPRAP OVER BEDDING STONE ON SHORELINE OTHER INCIDENTAL WORK AS REQUIRED BY D.N.R. CONSTRUCTION INSPECTOR IN MARION COUNTY, IOWA.

AUTHORIZATION TO BID

AUTHORIZATION -- PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY

ENGINEERING BUREAU CHIEF

DATE

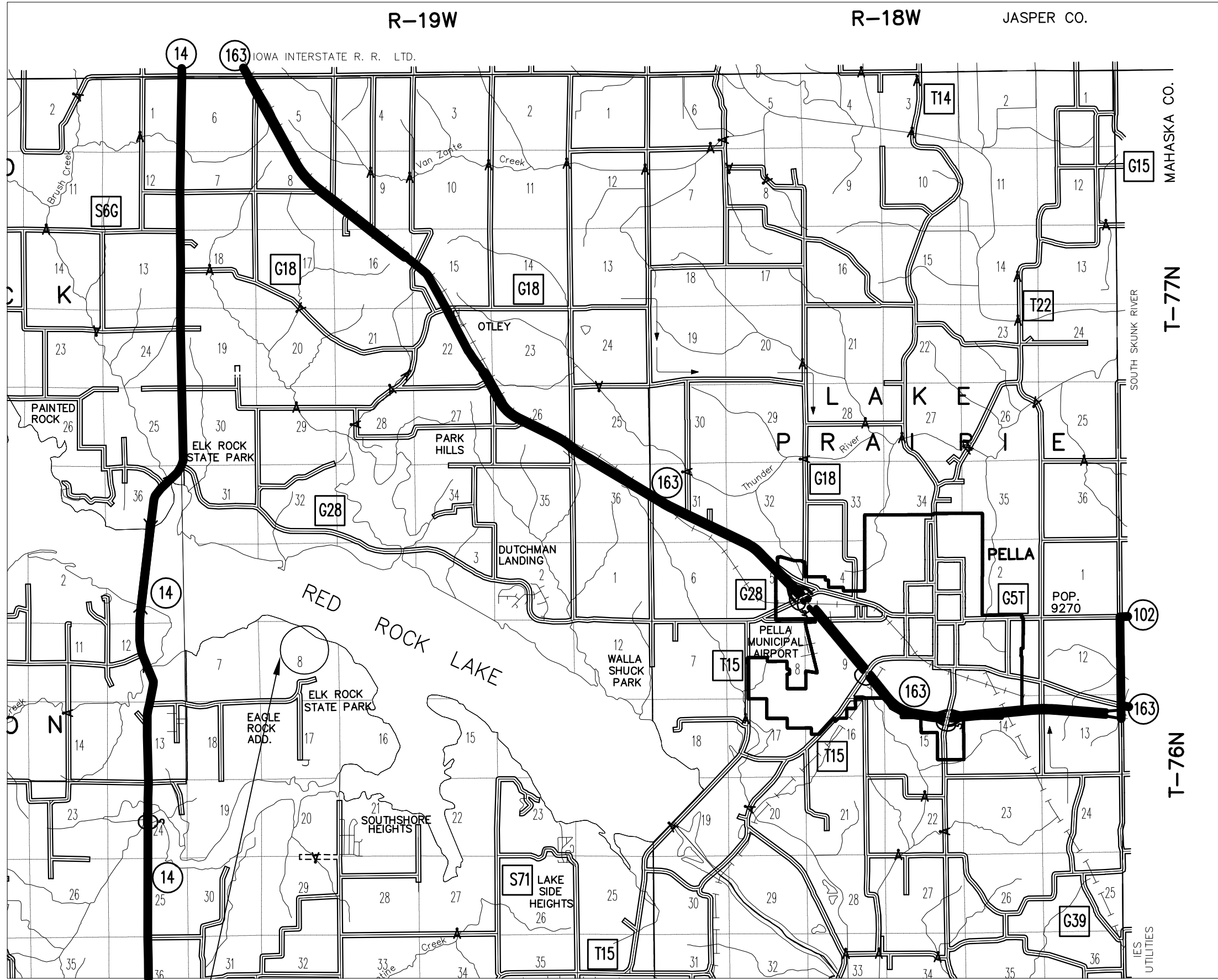
NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
E.S. 15-05-63-02

CHK'D BY: DATE:
J.K. MARCH/2015

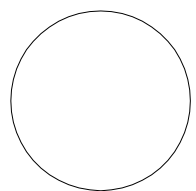
SHEET No:

A.01



PROJECT LOCATION

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



PROJECT LOCATION

SHORELINE ARMORING FOR:

ELK ROCK STATE PARK

MARION COUNTY, IA

NO.	BY	DATE	REVISION

DRAWN BY: PROJECT NUMBER:
E.S. 15-05-63-02
CHK'D BY: DATE:
J.K. MARCH/2015

SHEET No:

A.02

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4/26/2016
RR65G-002.dgn

SCOPE OF WORK

SCOPE OF WORK:

THE SCOPE OF WORK FOR THIS PROJECT GENERALLY CONSISTS OF, BUT IS NOT LIMITED TO CLEARING AND GRUBBING, GRADING OF SLOPES, PLACEMENT OF ROCK BEDDING MATERIAL ON A SLOPE, AND PLACEMENT OF RIPRAP ON A SLOPE.

INDEX

GENERAL NOTES

1. THE CONTRACTOR SHALL WORK, STAGE AND STORE EQUIPMENT WITHIN THE WORK AREA LIMITS AS SHOWN AND AS DIRECTED BY THE CONTRACTING OFFICER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UTILITIES ON SITE PRIOR TO BEGINNING THE WORK AND SHALL BE RESPONSIBLE FOR REPAIRING UTILITIES DAMAGED DURING CONSTRUCTION.
3. POOL ELEVATIONS ARE TAKEN FROM NGVD 1929. ALL LAND ELEVATIONS ARE FROM NAVD 1929 DATUM. COORDINATE SYSTEM AND UNIT IS STATE PLANE NAD 83 IOWA SOUTH, US SURVEY FOOT.
4. ALL QUANTITIES MUST BE FIELD VERIFIED.
5. ORTHOPHOTOGRAPHY IS USED IN THIS PLAN SET TO COMMUNICATE GENERAL SITE DETAILS. MANY DETAILS MAY HAVE CHANGED SINCE THE ORTHOPHOTOGRAPHY WAS CREATED.
6. ANY DAMAGE DONE DURING CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
7. IF ANY WORK AREAS ARE INUNDATED WITH WATER, THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE CONTRACTING OFFICER BEFORE STARTING OR RESUMING WORK.
8. CONTRACTOR SHALL NOT EXCAVATE OR SHAPE FROZEN EXISTING GROUND OR PLACE CLAY FILL OR BEDDING STONE ON FROZEN GROUND. CONTRACTOR WILL BE ALLOWED TO PLACE RIPRAP AND DERRICK STONE PROVIDED THAT SNOW AND ICE ARE REMOVED FROM THE EXISTING GROUND SURFACE AND DISPLACED OR REMOVED BEDDING STONE IS REPLACED.
9. IN AREAS THAT BEDDING STONE IS USED, RIPRAP MUST BE PLACED WITHIN 30 DAYS OF PLACING BEDDING STONE.
10. THIS CONTRACT HAS A BASE AND TWO OPTIONS SHOWN IN THE TABLE THAT FOLLOWS. IN ALL AREAS, THE RIPRAP BLANKET SHALL FOLLOW EXISTING GRADE WITH A MINIMAL AMOUNT OF EARTH WORK. THE RIPRAP BLANKET SHALL BE 30" THICK MINIMUM, HOWEVER, SLOPES SHALL NOT EXCEED THE SLOPES LISTED IN THE FOLLOWING TABLE. CONTRACTOR SHALL MINIMIZE MATERIAL PLACEMENT.
11. CONTRACTOR SHALL UTILIZE LAND ACCESS FOR ALL SITE LOCATIONS UNLESS OTHERWISE APPROVED BY THE COR.
12. MINOR GRADING MAY BE NEEDED TO ENSURE SUFFICIENT SLOPE FOR PLACING BEDDING STONE AND RIPRAP.

GENERAL NOTES



US Army Corps
of Engineers®
Rock Island District

Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS	Designed By: ATZ	Date:
	Drawn By: SPS	Scale: AS SHOWN
	Checked By:	Project Code: RR65
	Reviewed By:	Solicitation Number:

DES MOINES RIVER
LEFT BANK
SHORELINE PROTECTION
**INDEX
SCOPE OF WORK, AND
GENERAL NOTES**

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Number:
G-002
Sheet 2 of 17

ITR REVIEW

ESTIMATED PROJECT QUANTITIES

ITEM	DESCRIPTION	UNIT	TOTAL
1	MOBILIZATION	L.S	1
2	BANK SHAPING	L.S	1
3	CLASS 'E' REVETMENT	TONS	4400
4	CLASS 'A' BEDDING STONE	TONS	1500
5	SEEDING & SITE RESTORATION	L.S	1

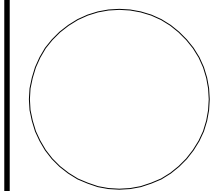
ESTIMATED REFERENCE INFORMATION

ITEM	DESCRIPTION
3	CLASS 'E' REVETMENT SHALL MEET THE IDOT STANDARD SPECIFICATION SECTION 4130
4	GRADED STONE BEDDING SHALL MEET THE REQUIREMENT FOR GRADATION 13 OF THE IDOT AGGREGATE GRADATION TABLE, ARTICLE 4109.02

GENERAL NOTES:

ITEM	DESCRIPTION
A.	The contractor shall notify the following two weeks prior to construction: 1. District Inspector: Jason Kruse (515)- 250- 3707 2. Project Manager: Emmanuel Sang (515)-321-7005
B.	The contractor shall verify actual locations and elevations with the D.N.R Inspector.
C.	All work shall conform to and be performed in accordance with all applicable codes and ordinances.
D.	The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specifications, special provisions and contract.
E.	The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the D.N.R Inspector of any discrepancies, omissions and/or conflicts prior to proceeding with the work.
F.	The contractor is responsible for disposal for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the D.N.R Inspector.
G.	The contractor shall not disturb desirable grass areas and desirable trees outside construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the D.N.R inspector.
H.	The contractor is expected to have materials, equipment and labor available on a daily basis to install and maintain erosion control features on the project.
I.	The contractor shall be responsible for any damage to existing facilities resulting from their negligence, or that of a subcontractor, and said repairs shall be approved by the owner.

CONSULTANT:



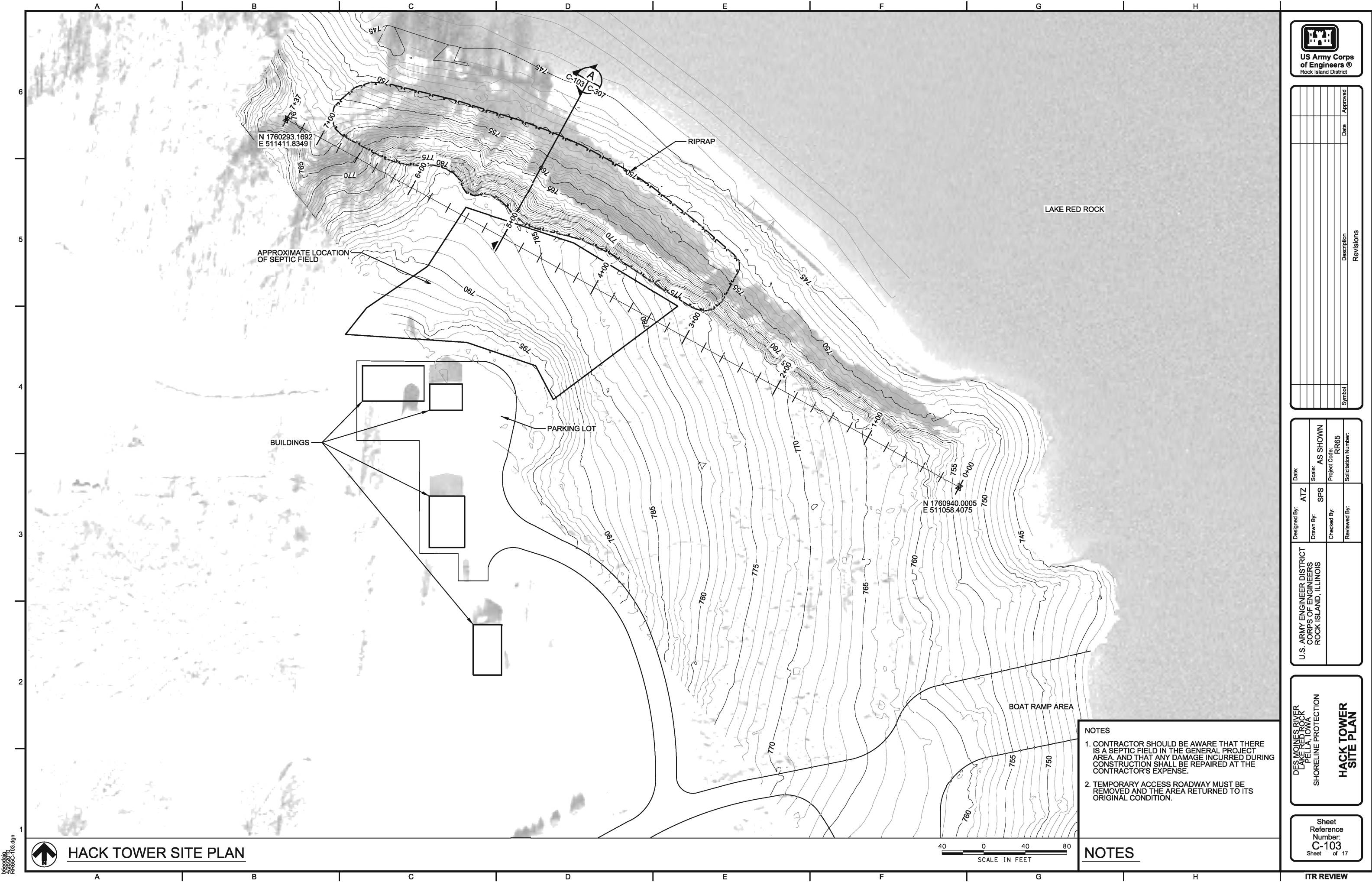
IOWA DEPARTMENT OF
NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



ESTIMATED QUANTITIES
 SHORELINE ARMORING FOR:
ELK ROCK STATE PARK
 MARION COUNTY, IA

NO.	BY DATE	REVISION

DRAWN BY: ES PROJECT NUMBER: 15-05-63-02
 CHKD BY: JK DATE: MARCH/2015



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 4/7/2010
 RR66C-103.dgn



HACK TOWER SITE PLAN



- NOTES**
1. CONTRACTOR SHOULD BE AWARE THAT THERE IS A SEPTIC FIELD IN THE GENERAL PROJECT AREA, AND THAT ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 2. TEMPORARY ACCESS ROADWAY MUST BE REMOVED AND THE AREA RETURNED TO ITS ORIGINAL CONDITION.

NOTES



Symbol	Description	Date	Approved

Designed By:	ATZ	Date:	
Drawn By:	SPS	Scale:	AS SHOWN
Checked By:		Project Code:	RR66
Reviewed By:		Solicitation Number:	
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			

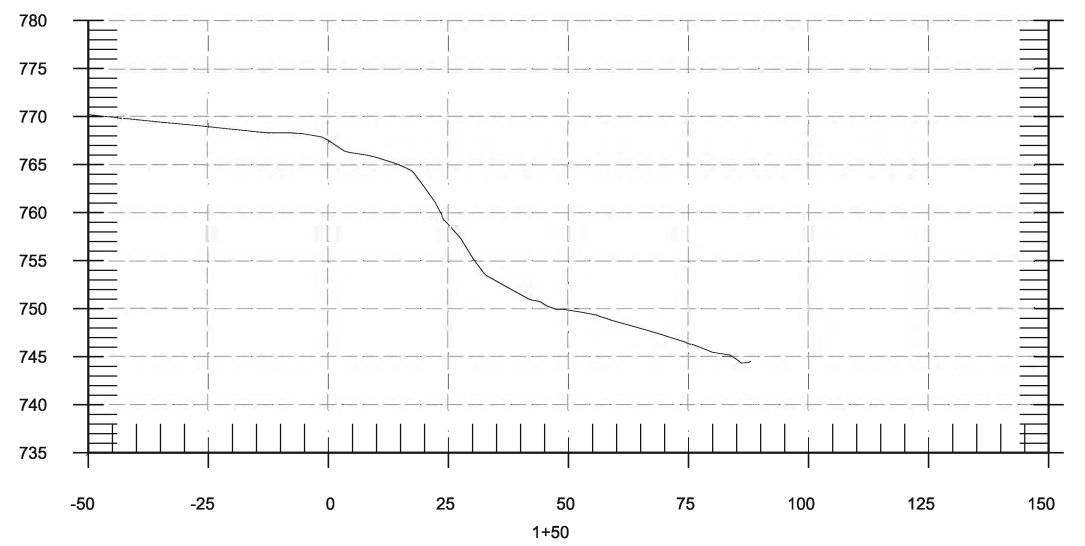
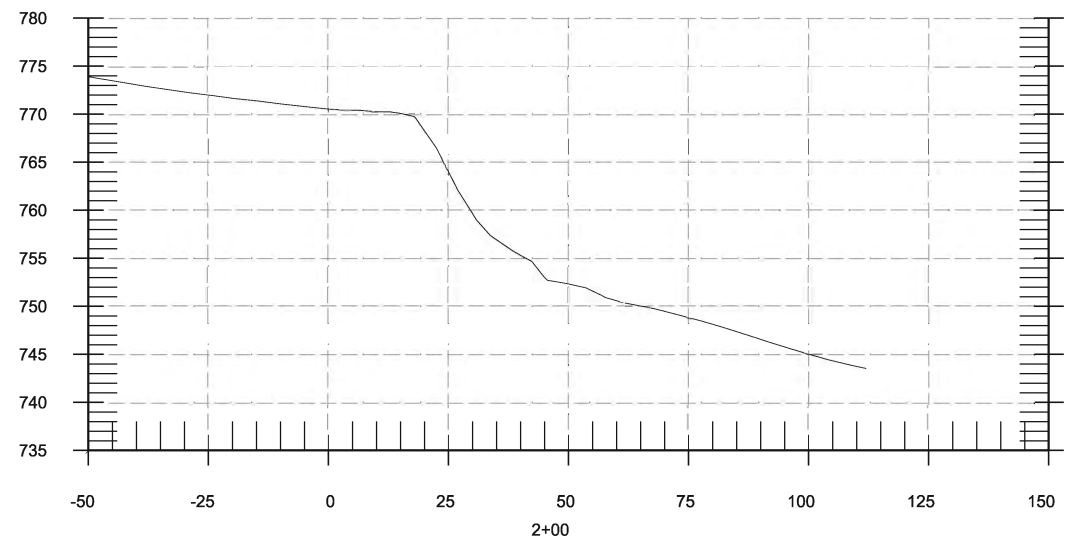
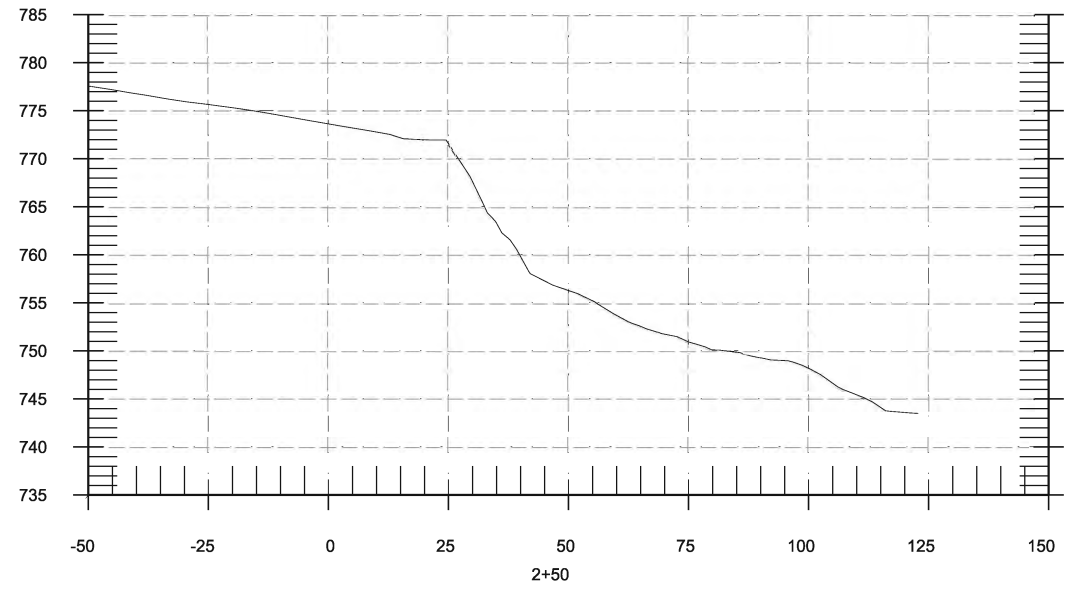
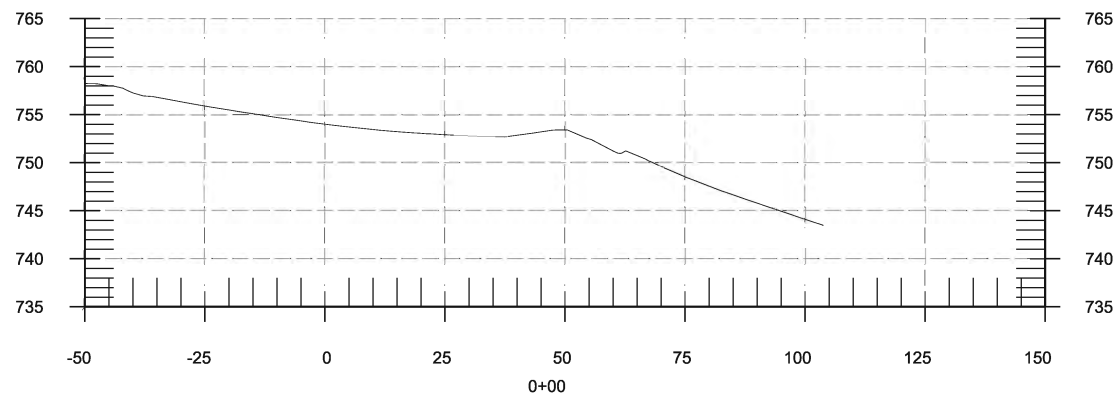
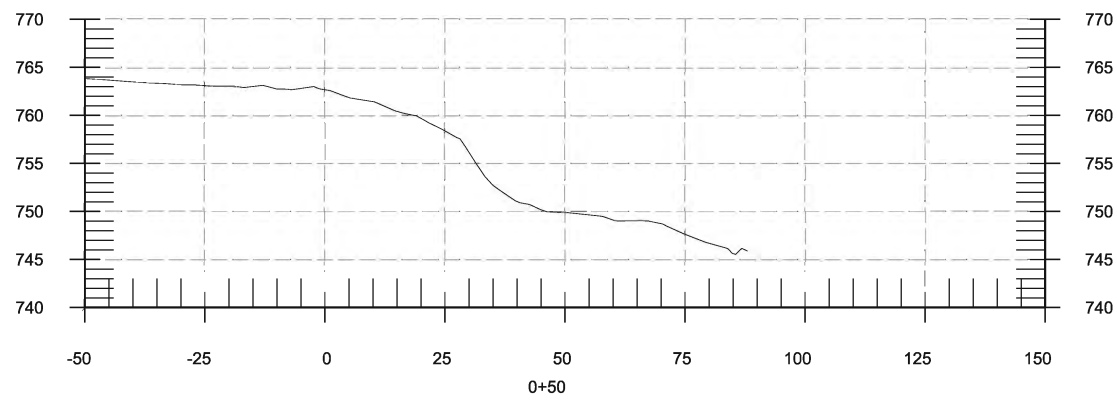
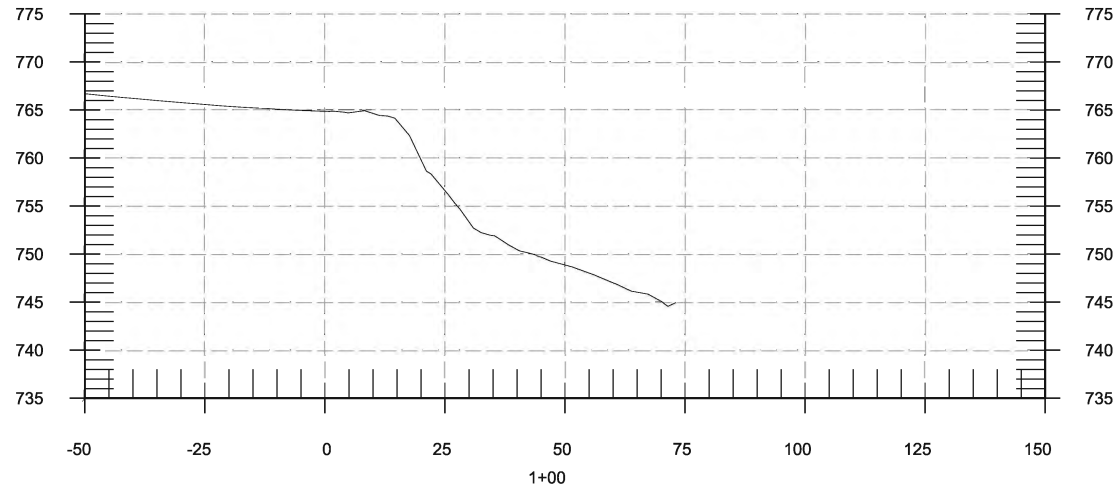
DES MOINES RIVER
LAKE RED ROCK
SHORELINE PROTECTION
**HACK TOWER
SITE PLAN**

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C-103
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ITR REVIEW

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4/26/2010
RR65C-305.dgn

HACK TOWER SECTIONS - STA. 0+00 TO 2+50



Symbol	Description	Date	Approved

Designed By: ATZ	Date:
Drawn By: SPS	Scale: AS SHOWN
Checked By: RR65	Project Code: RR65
Reviewed By:	Solicitation Number:

DES MOINES RIVER
LEFT BANK
SHORELINE PROTECTION
**HACK TOWER
CROSS SECTIONS I -
STA. 0+00 TO 2+50**

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ITR REVIEW



US Army Corps of Engineers
Rock Island District

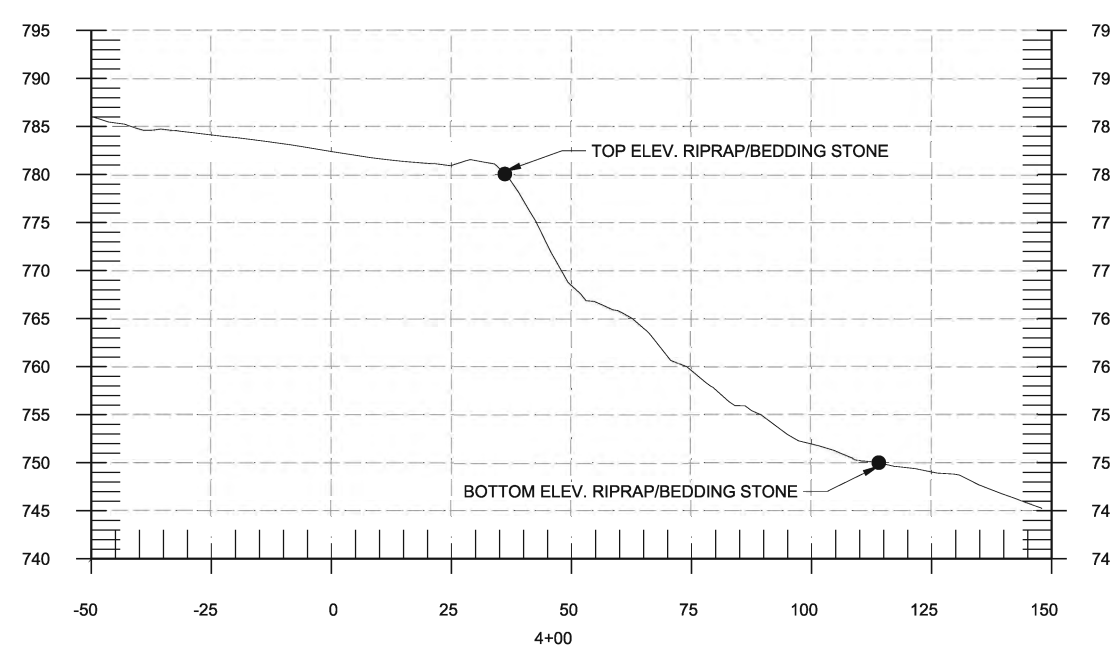
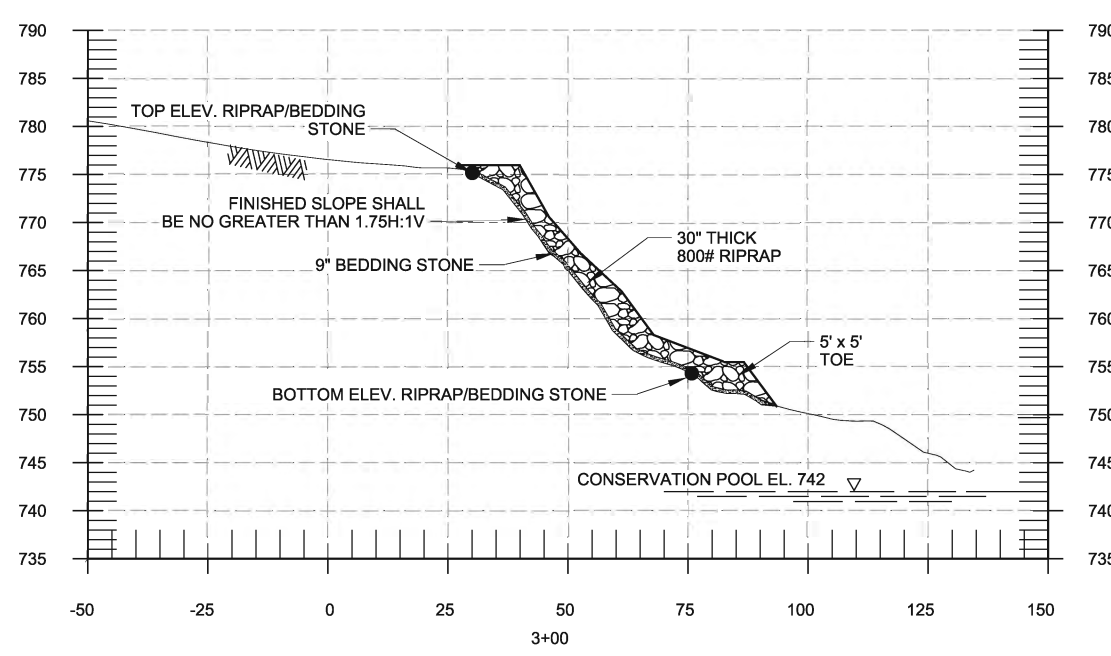
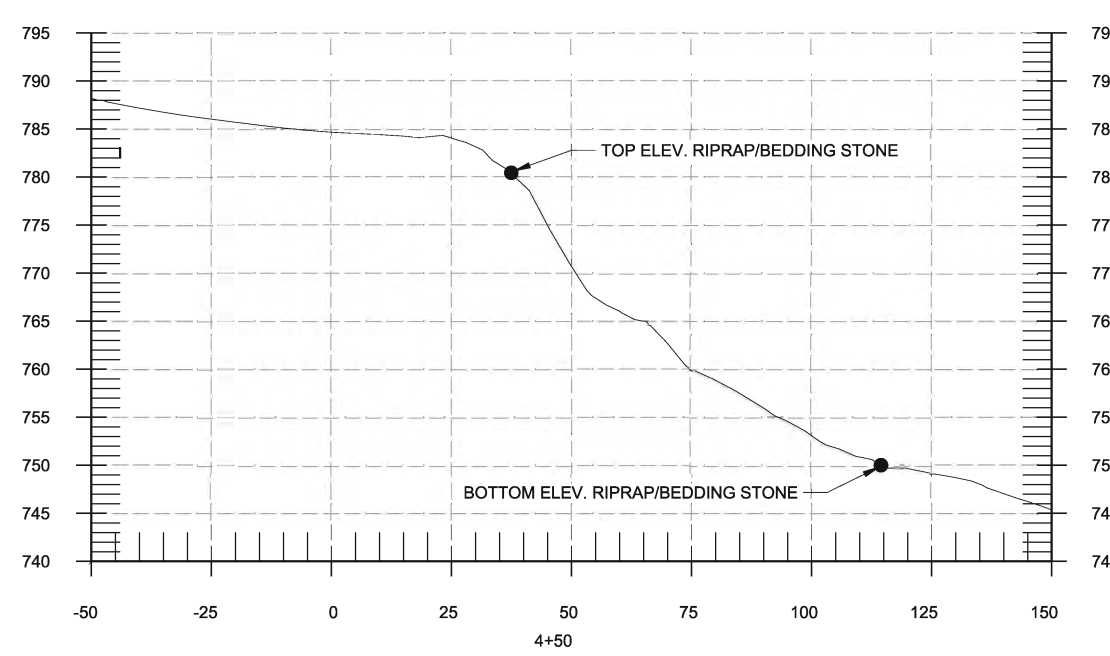
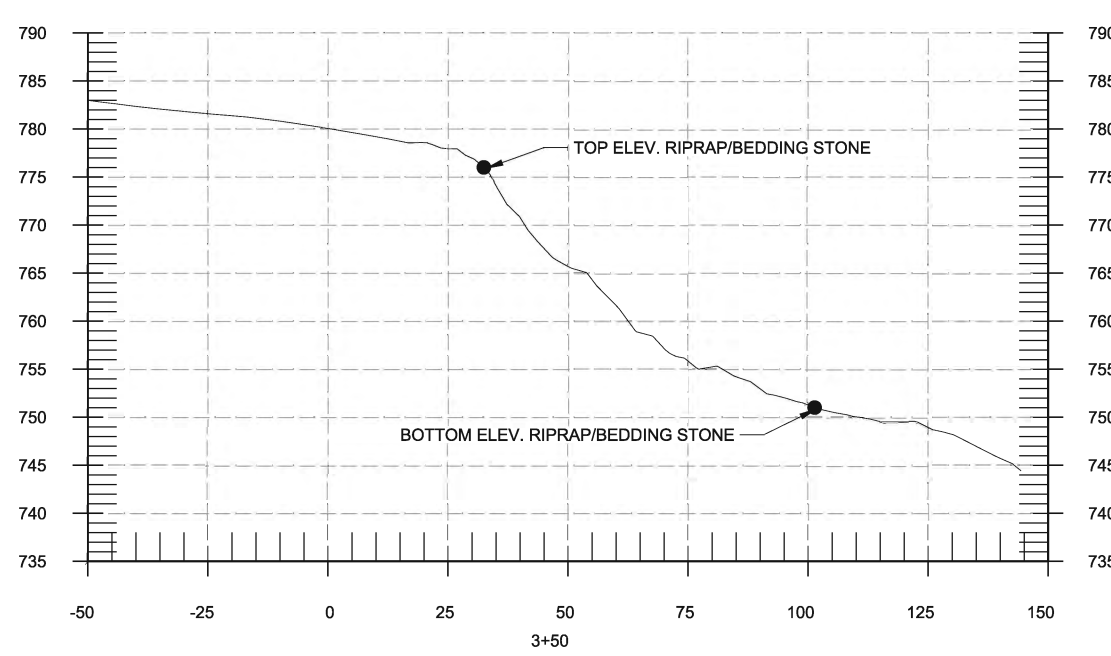
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Checked By:		Project Code:	RR65
Reviewed By:		Solicitation Number:	

DES MOINES RIVER
LEFT BANK
SHORELINE PROTECTION
**HACK TOWER II -
CROSS SECTIONS II -
STA. 3+00 TO 4+50**

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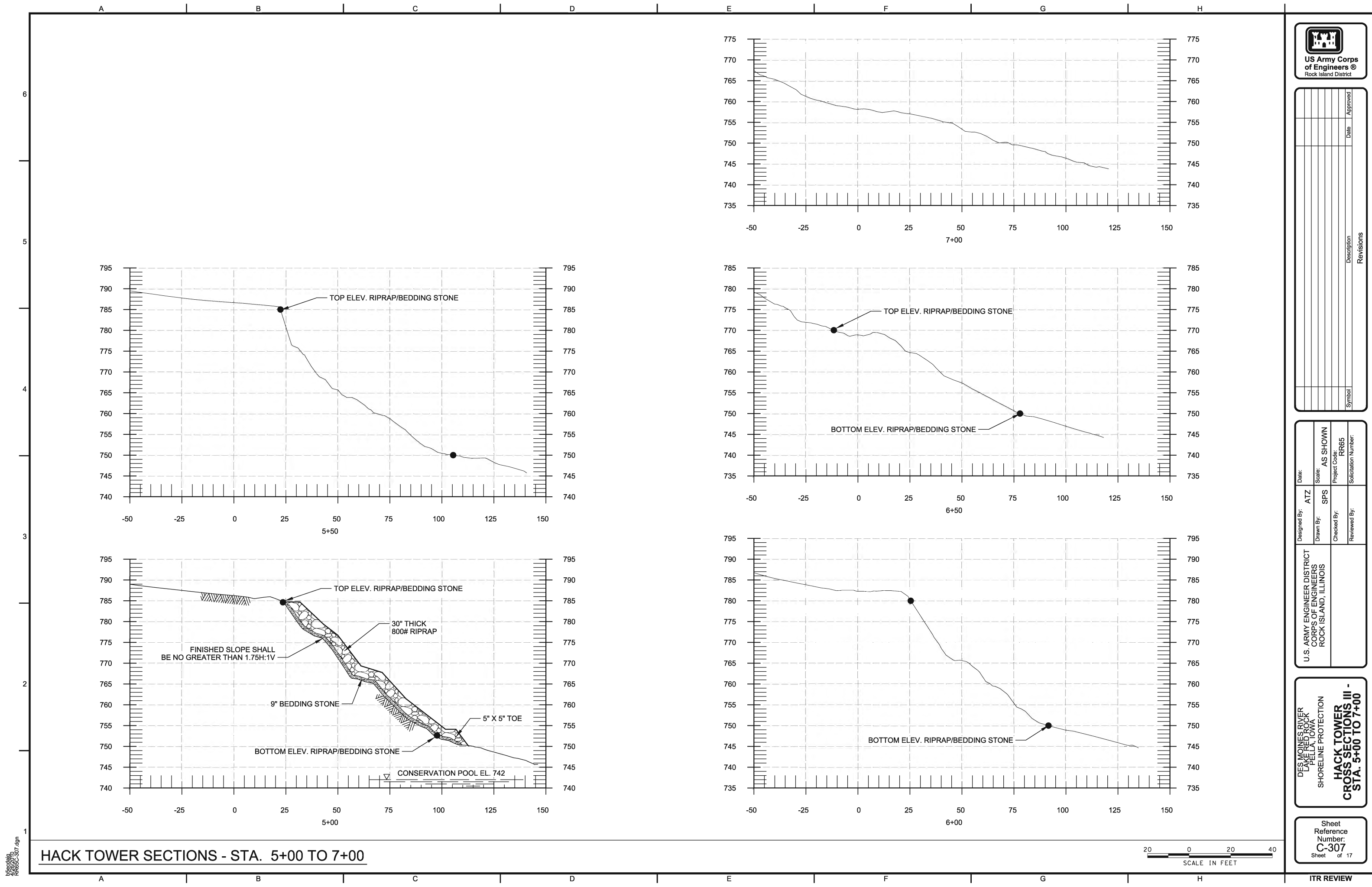
ITR REVIEW



HACK TOWER SECTIONS - STA. 3+00 TO 4+50



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Symbol	Description	Date	Approved

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Drawn By:	SPS	Scale:	AS SHOWN
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Reviewed By:		Solicitation Number:	

DES MOINES RIVER
LEFT BANK
SHORELINE PROTECTION
HACK TOWER CROSS SECTIONS III - STA. 5+00 TO 7+00

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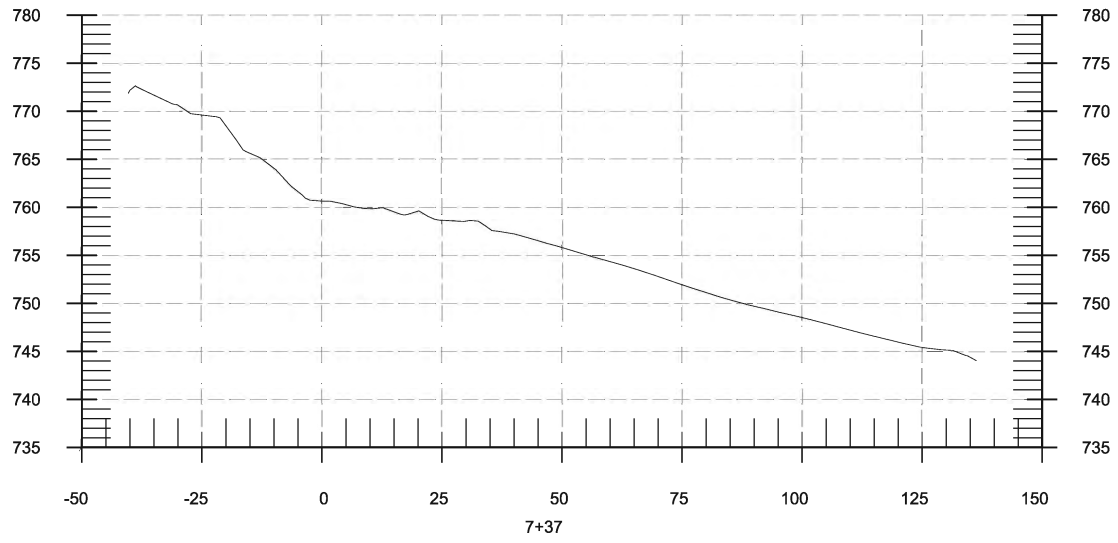
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HACK TOWER SECTIONS - STA. 5+00 TO 7+00



ITR REVIEW

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RR65C-308.dgn



HACK TOWER SECTIONS - STA. 7+37



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Rock Island District

Symbol	Description	Date	Revisions

Designed By:	ATZ	Date:	
Drawn By:	SPS	Scale:	AS SHOWN
Checked By:		Project Code:	RR65
Reviewed By:		Solicitation Number:	

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ROCK ISLAND, ILLINOIS

DES MOINES RIVER
LEFT BANK
SHORELINE PROTECTION
**HACK TOWER
CROSS SECTIONS IV -
STA. 7+37**

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