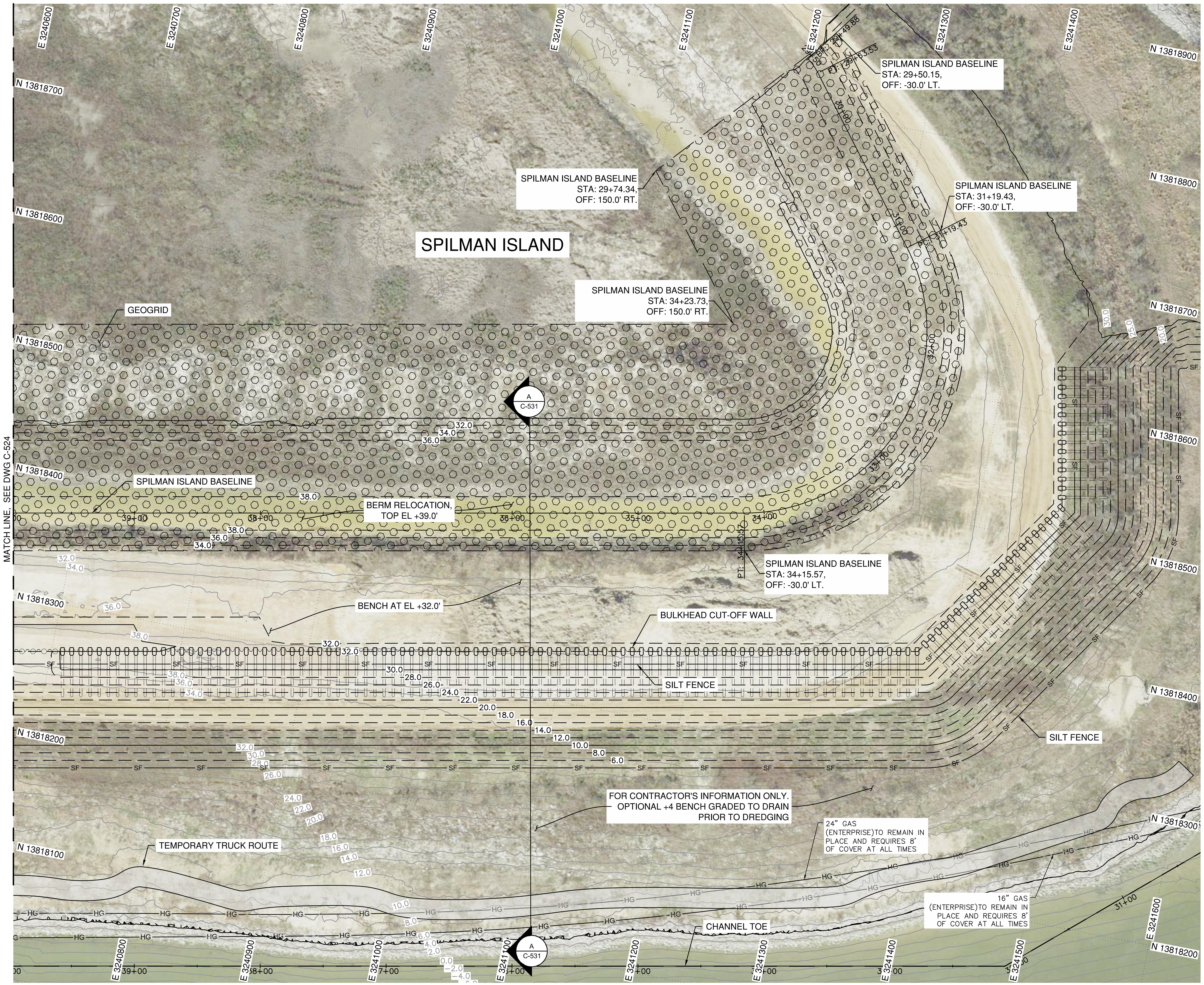

A ENLARGED PROPOSED EARTHWORK PLAN

SCALE: 1" = 40'

GENERAL NOTES

1. REFER TO CONTRACT DOCUMENTS FOR SOIL BORING LOG INFORMATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE LOCATION (ALIGNMENT & ELEVATION) OF EXISTING PIPELINES PRIOR TO ANY EXCAVATION.
3. PROPOSED CONTOURS ON THIS SHEET SHOWN BEHIND (NORTH) THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CONTOURS SHOWN IN FRONT (SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTORS INFORMATION ONLY.
4. FOR EARTHWORK CROSS SECTIONS SEE SHEETS C-531 THRU C-539.
5. CONTRACTOR SHALL DEWATER DITCHES AND/OR SWALES WITHIN THE VICINITY OF THE FOOTPRINT OF THE PROPOSED BERM AND STABILITY BERM THROUGH PUMPING OR OTHER ACCEPTABLE MEANS PER SPECIFICATION 31 23 00.00 "EXCAVATION AND FILL".
6. REFER TO SHEET G-005 FOR DMPA BERM ALIGNMENT.
7. TEMPORARY TRUCK ROUTE IS SHOWN FOR CONTRACTOR'S INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A ROUTE THAT IS COMPATIBLE WITH THEIR MEANS AND METHODS FOR COMPLETING THE CONTRACT WORK.

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: ______ DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING
DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:

ENLARGED PROPOSED EARTHWORK PLAN (4 OF 4)

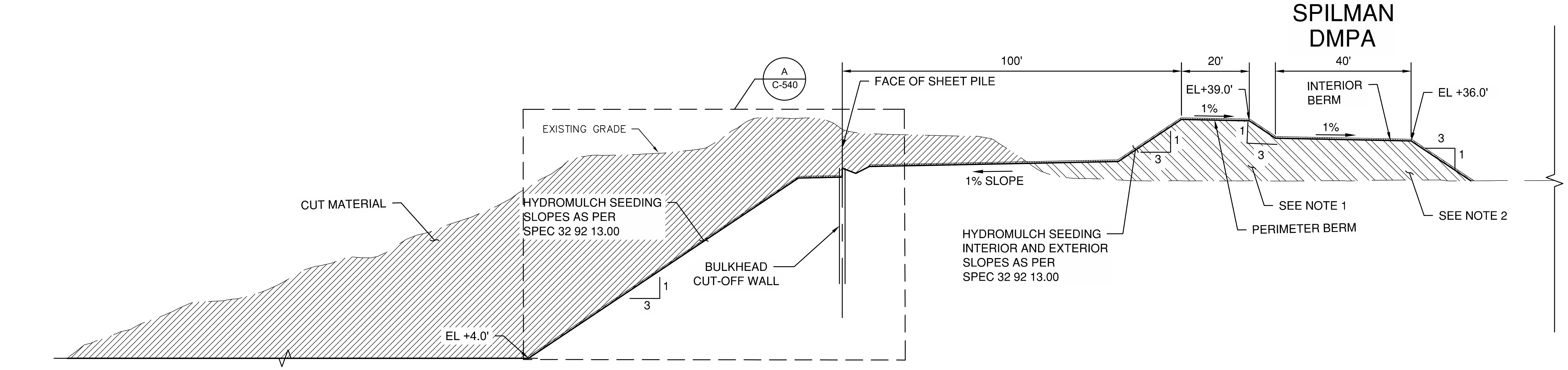
REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 40'

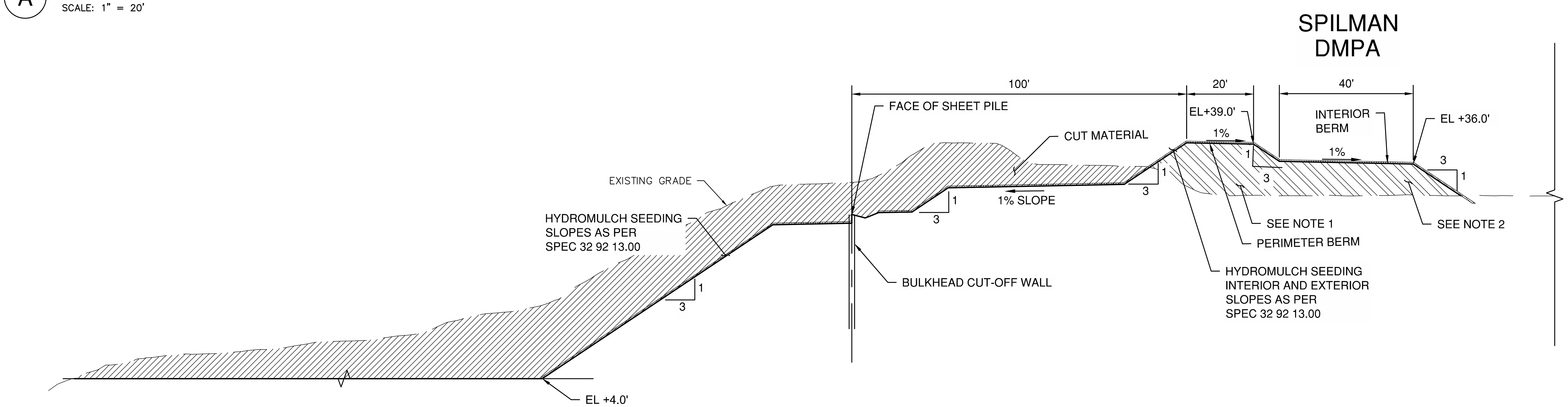
DRAWING NO. C90-D13-P11-007

SHEET NO. C-525 — REV. NO. A

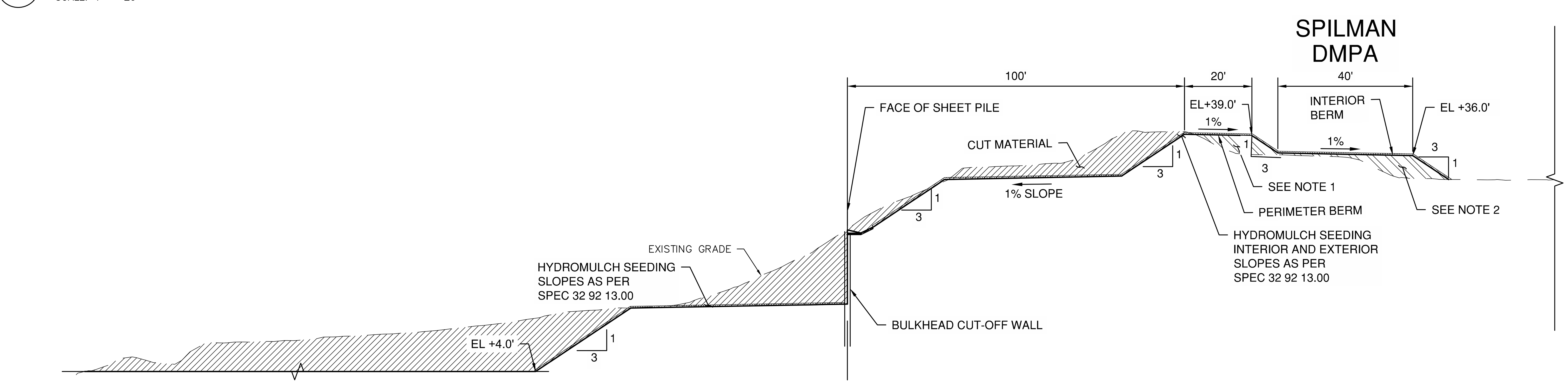
95% REVIEW



A TYPICAL SECTION - BERM RELOCATION
SCALE: 1" = 20'



B TYPICAL SECTION - BERM RELOCATION
SCALE: 1" = 20'



C TYPICAL SECTION - BERM RELOCATION
SCALE: 1" = 20'

20 10 0 20 40

GENERAL NOTES

1. COMPACTED CH, CL, SC "IMPERVIOUS FILL" PER EMBANKMENT CONSTRUCTION SPECIFICATION 31 24 00 2.02C. BERM WILL BE OVERBUILT IN ORDER TO ACHIEVE DESIGN GRADE AFTER SETTLEMENT AND CONSOLIDATION.
2. SUITABLE MATERIAL PER EMBANKMENT CONSTRUCTION SPECIFICATION 31 24 00 2.02C.
3. FOR INFORMATION BELOW ELEVATION +4' REFER TO PLAN SHEET C-111 THRU C-112.
4. PROPOSED GRADING SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED GRADING SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

TYPICAL SECTIONS-BERM RELOCATION

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

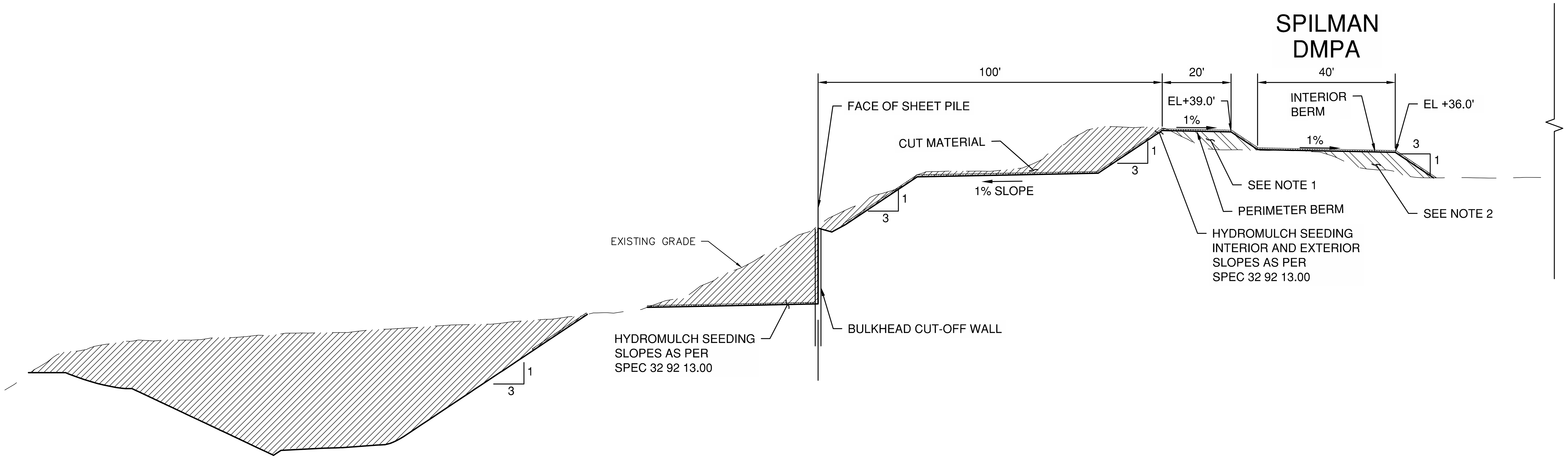
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 20'

DRAWING NO. C90-D13-P11-007

SHEET NO. C-531 REV. NO. A

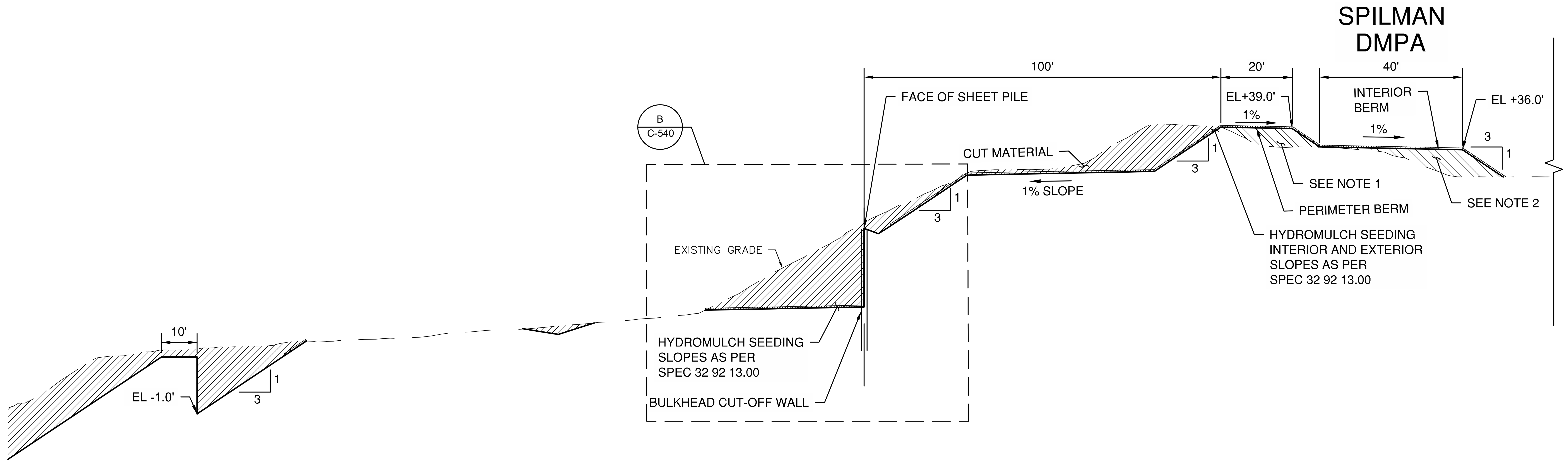
95% REVIEW

TIME: 12-08-20 – 1:26pm User: FBRISENOSE DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-531.dwg



A TYPICAL SECTION - BERM RELOCATION

SCALE: 1" = 20'



B TYPICAL SECTION - BERM RELOCATION

SCALE: 1" = 20'

20 10 0 20 40

GENERAL NOTES

1. COMPACTED CH, CL, SC "IMPERVIOUS FILL" PER EMBANKMENT CONSTRUCTION SPECIFICATION 31 24 00 2.02C. BERM WILL BE OVERBUILT IN ORDER TO ACHIEVE DESIGN GRADE AFTER SETTLEMENT AND CONSOLIDATION.
2. SUITABLE MATERIAL PER EMBANKMENT CONSTRUCTION SPECIFICATION 31 24 00 2.02C.
3. FOR INFORMATION BELOW ELEVATION +4' REFER TO PLAN SHEET C-511-C-512.
4. PROPOSED GRADING SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED GRADING SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: ______ DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:

TYPICAL SECTIONS-BERM RELOCATION

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 20'

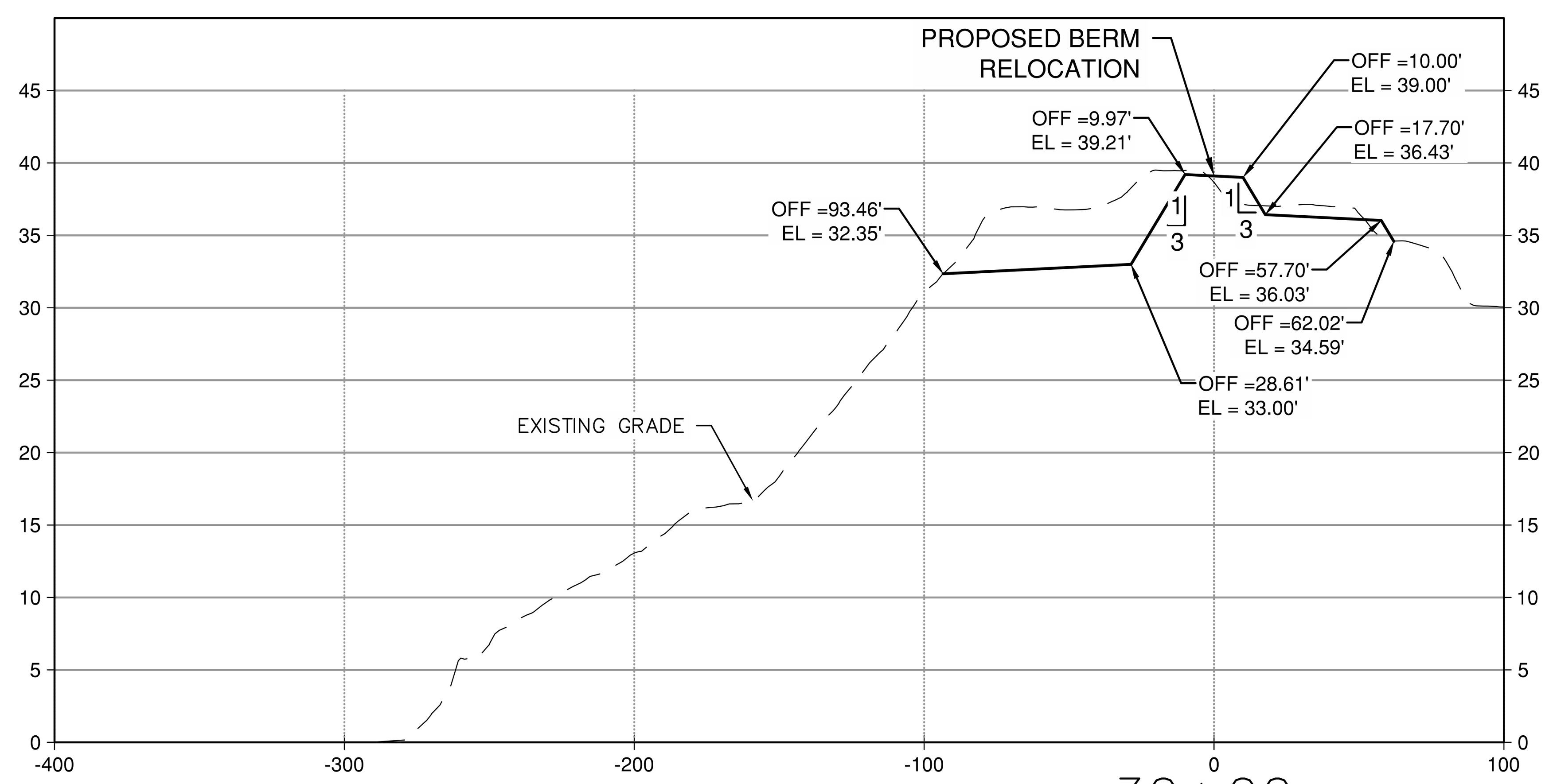
DRAWING NO. C90-D13-P11-007

SHEET NO. C-532

REV. NO. A

95% REVIEW

TIME: 12-08-20 - 1:22pm User: FBRISENOSE DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-532.dwg



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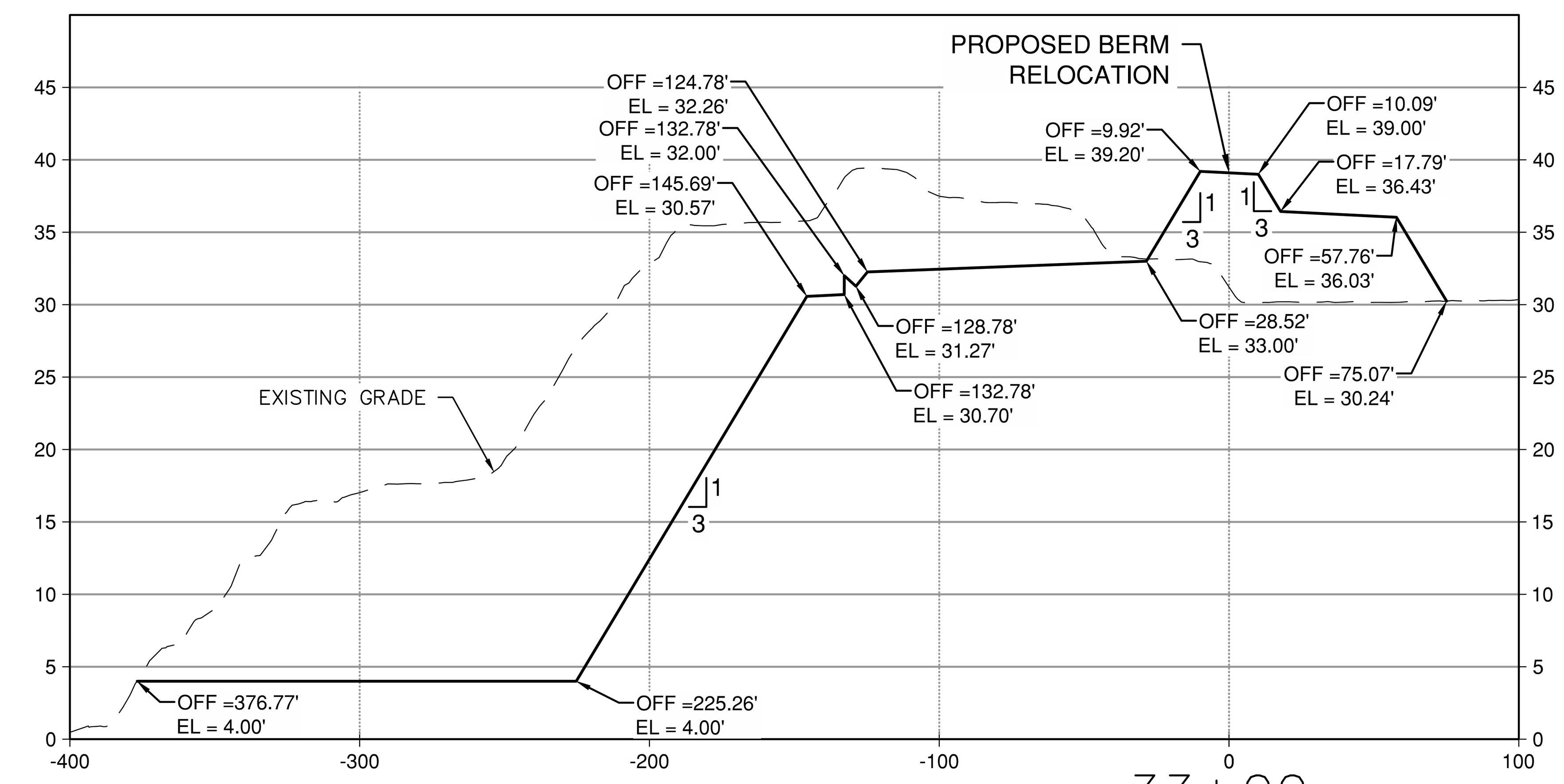

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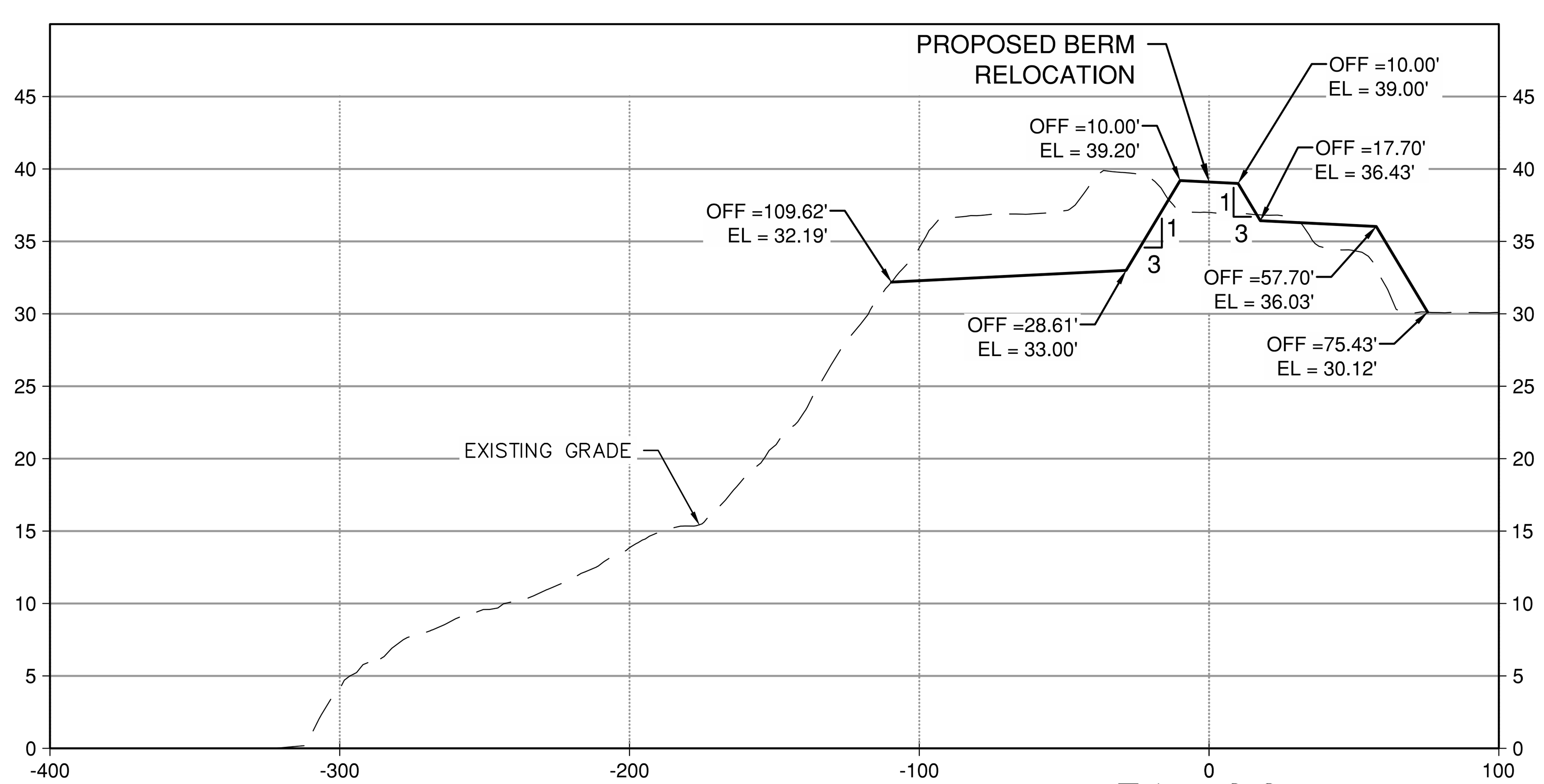

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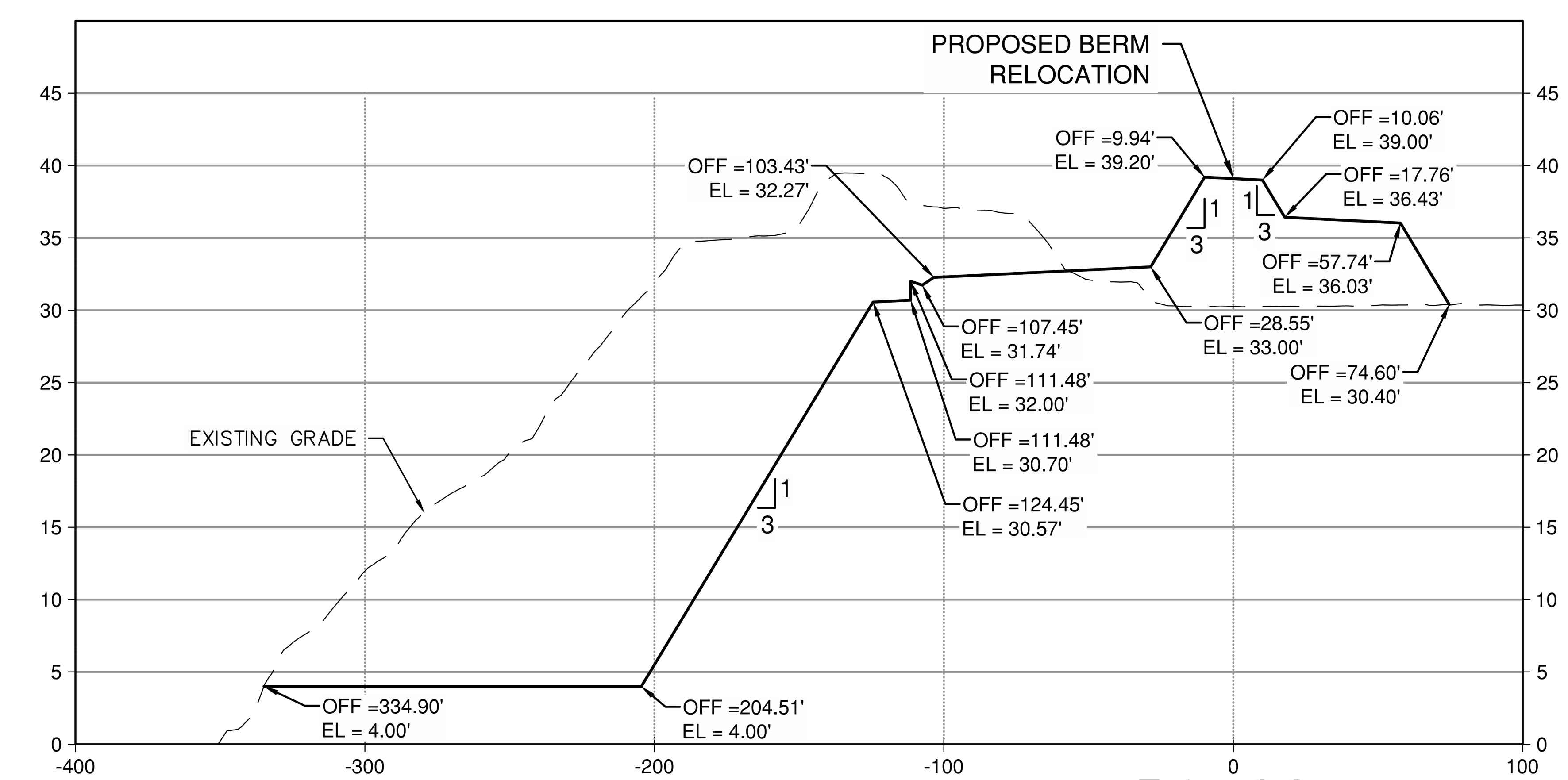

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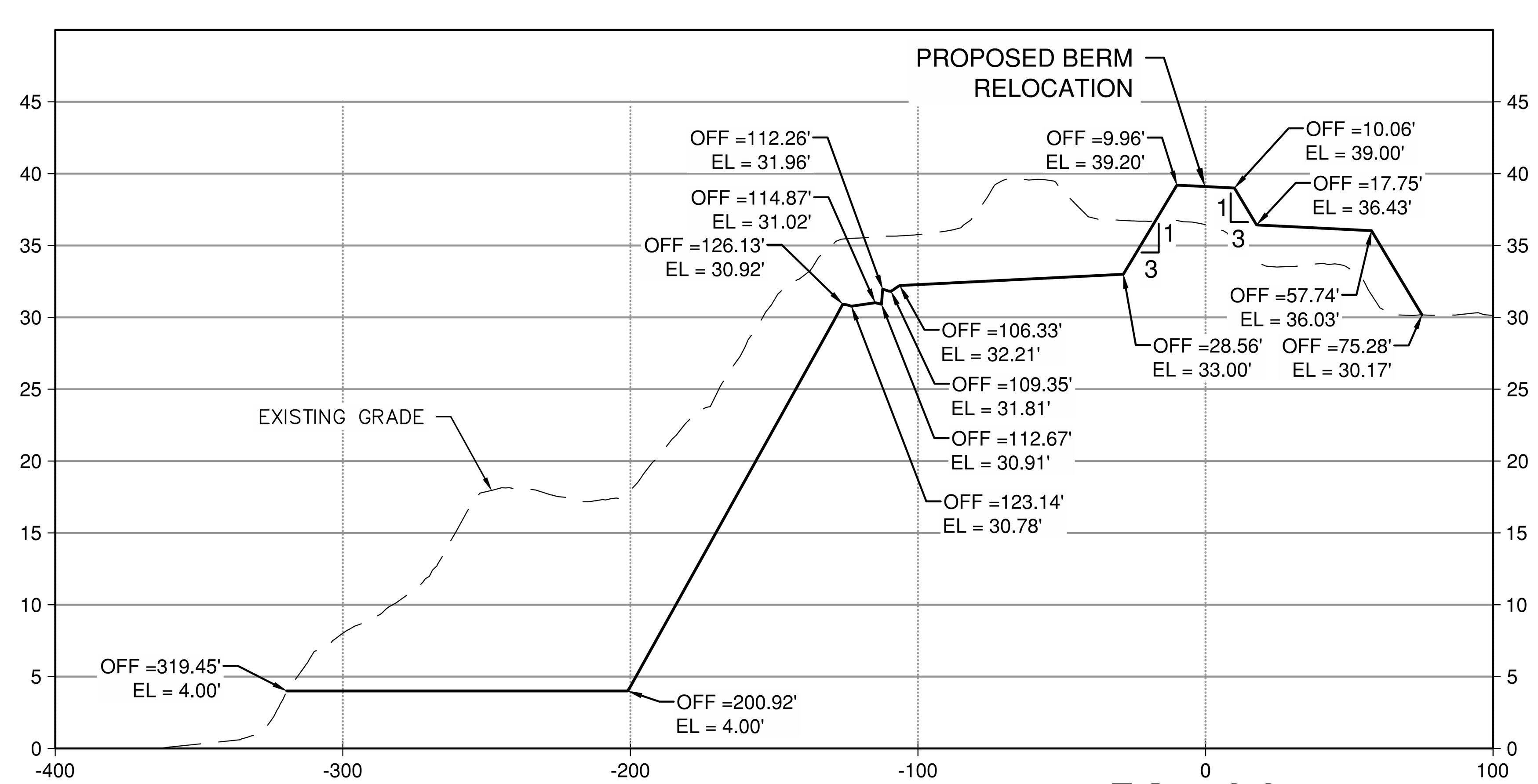

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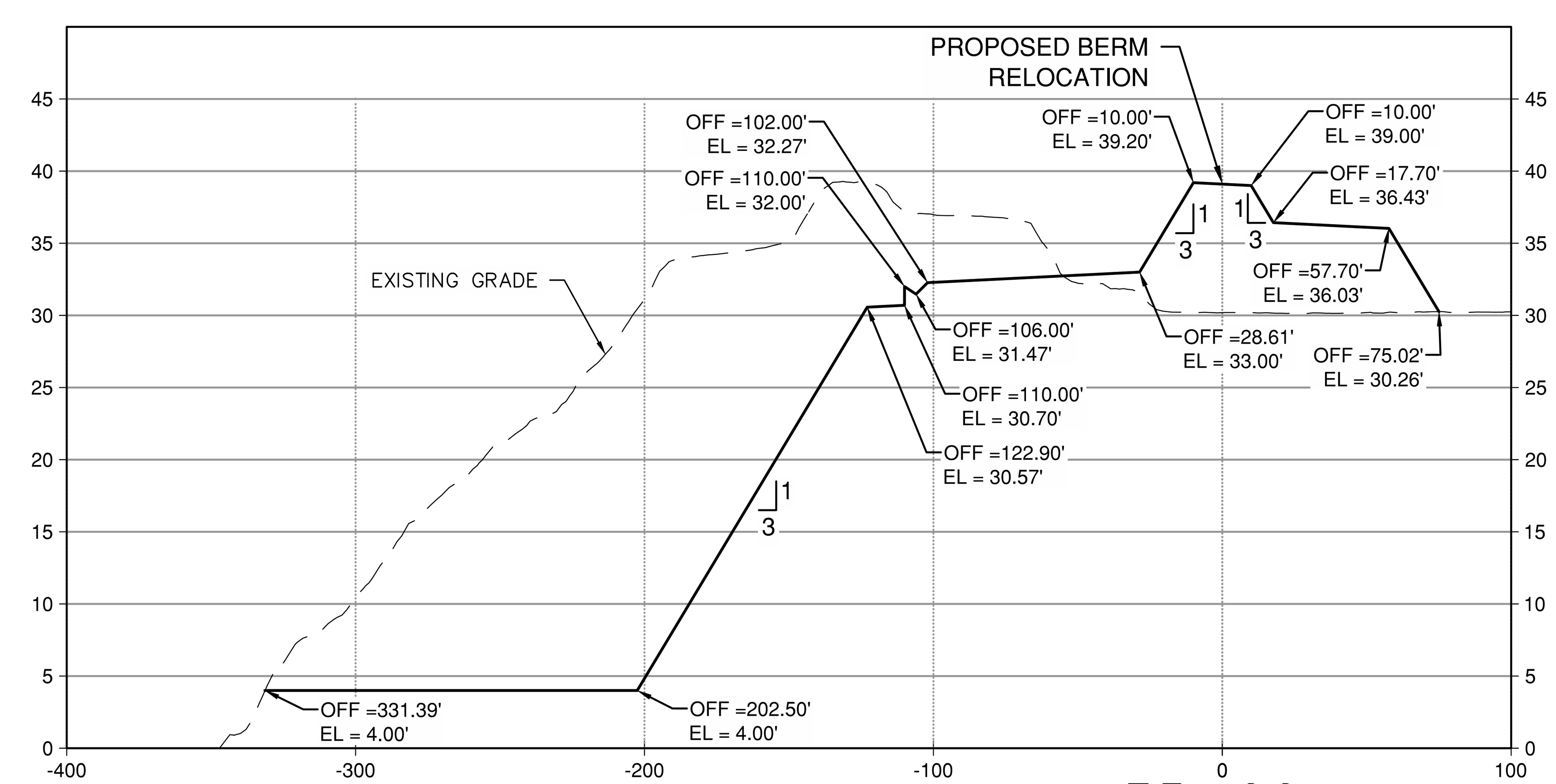

35+00

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.
4. FOR CONTRACTOR'S INFORMATION ONLY. OPTIONAL +4 BENCH GRADED TO DRAIN PRIOR TO DREDGING.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (1 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

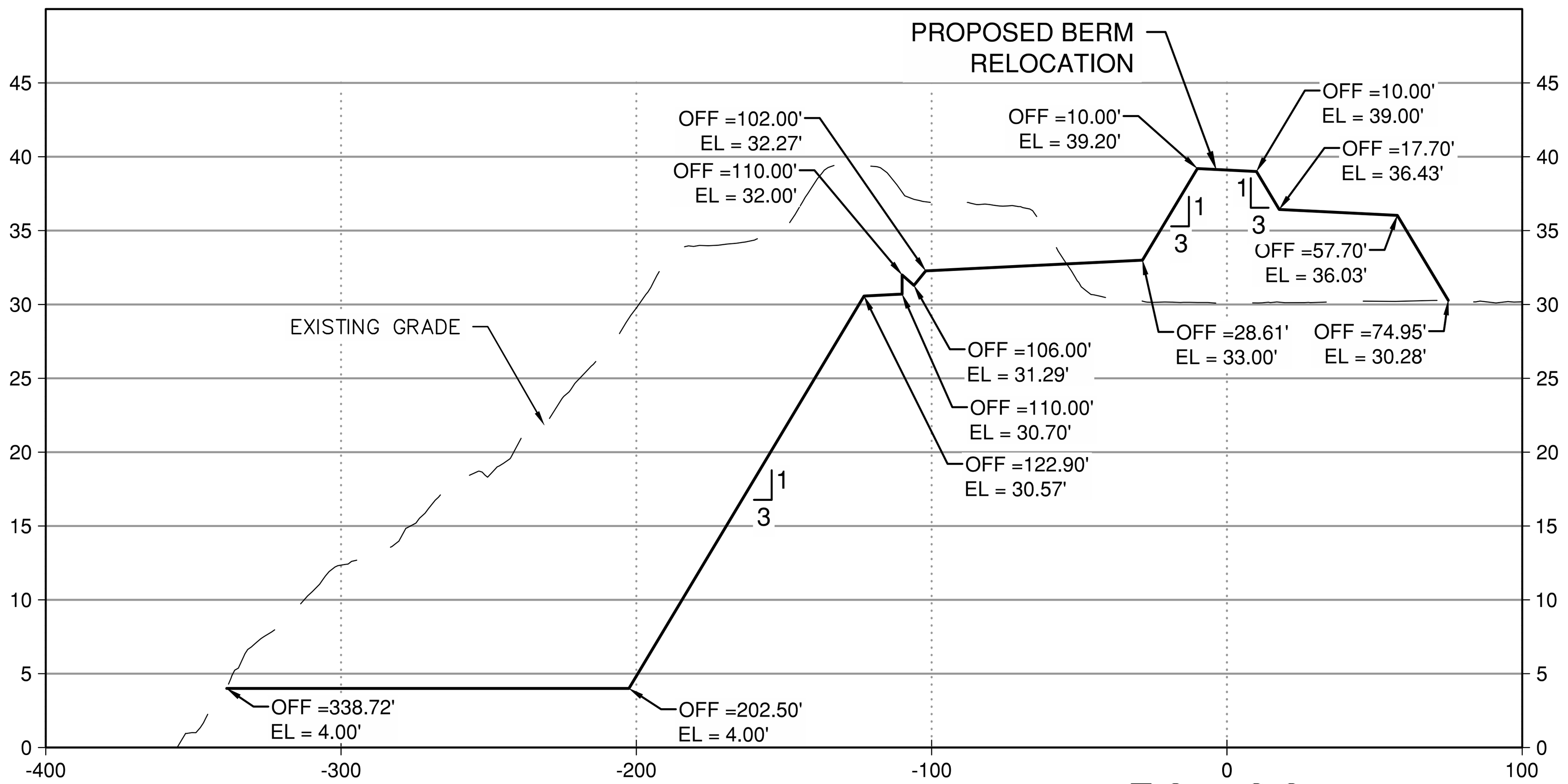
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-007

SHEET NO. C-533

REV. NO. A

95% REVIEW



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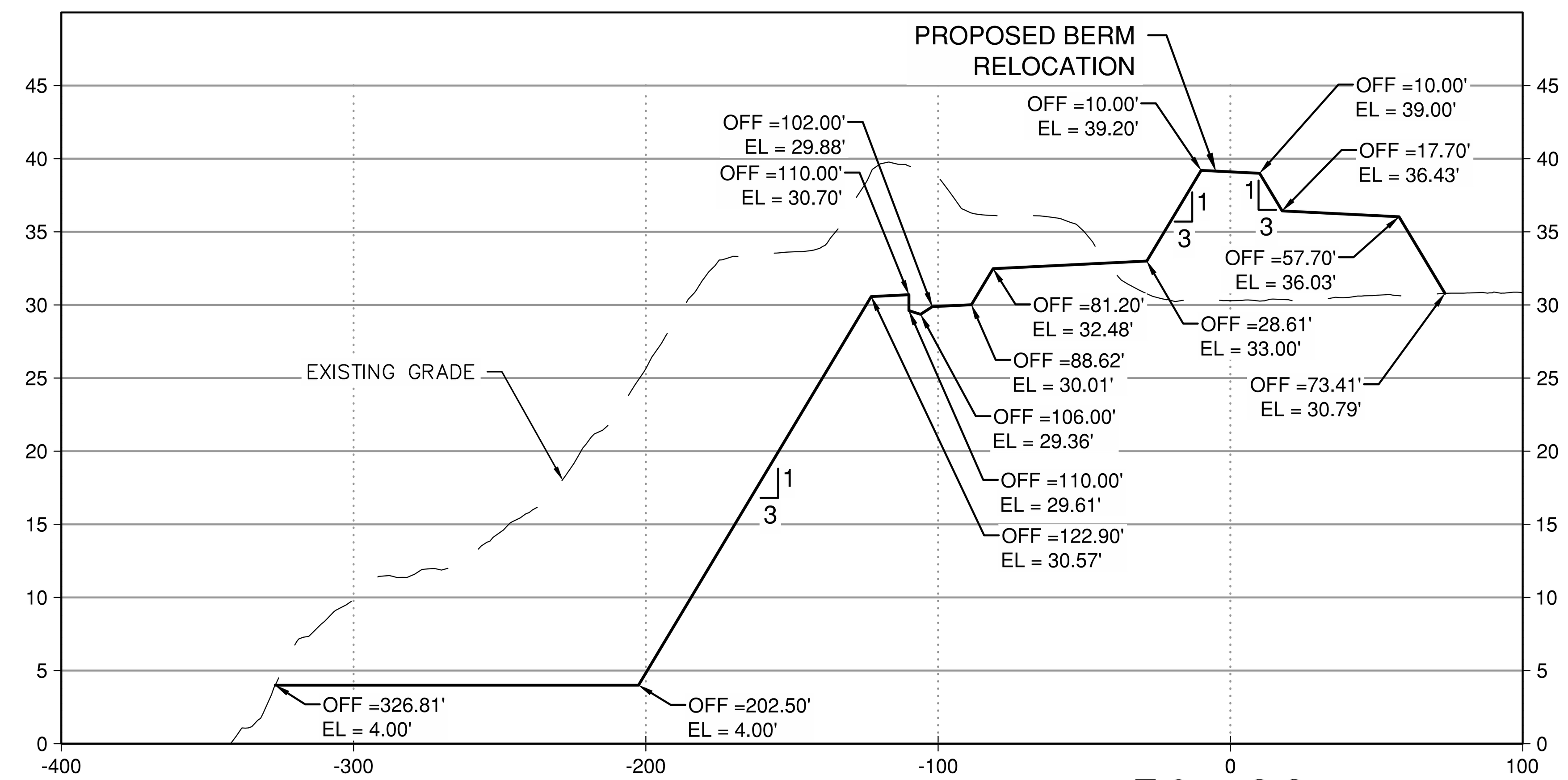

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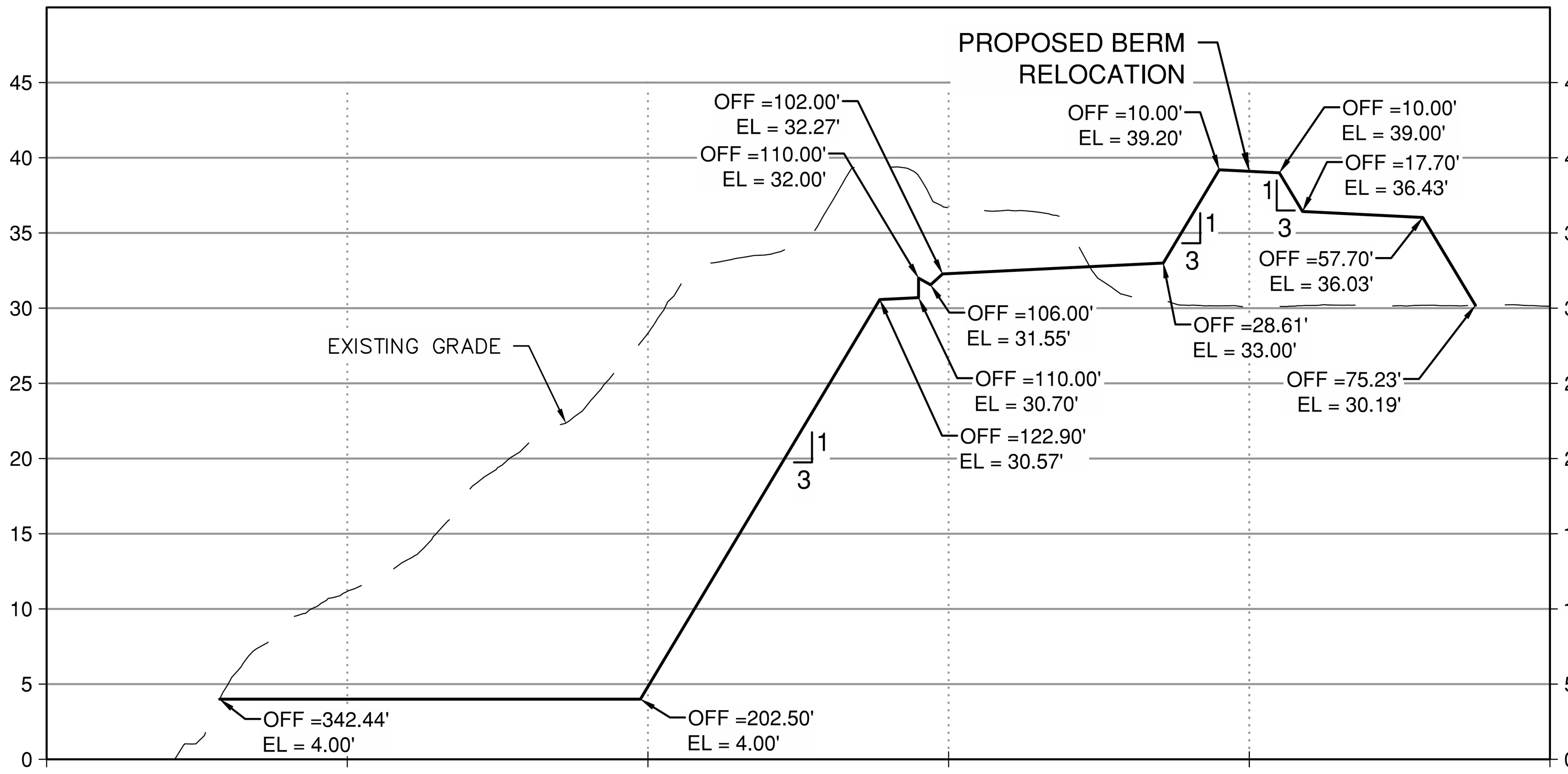

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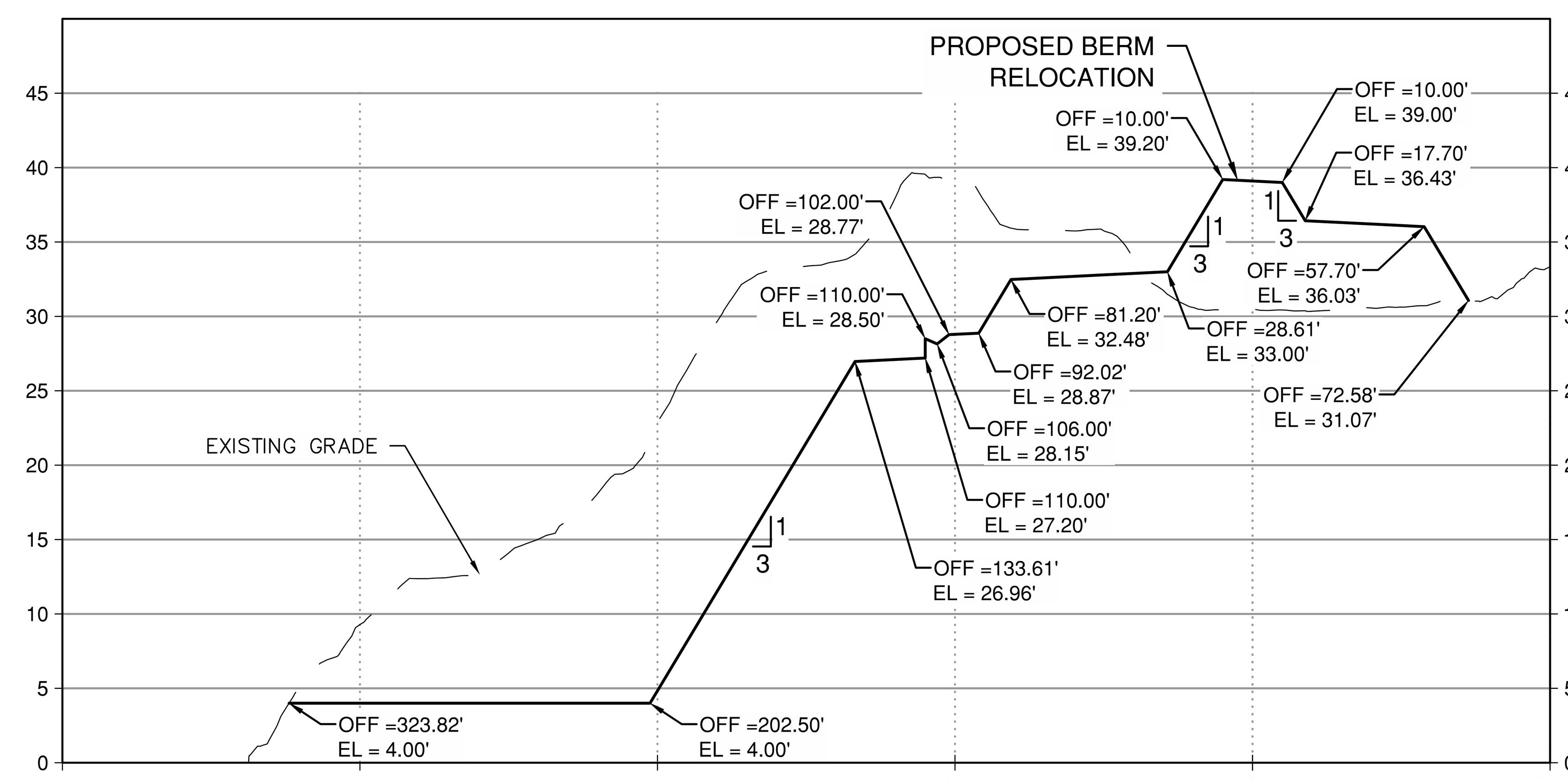

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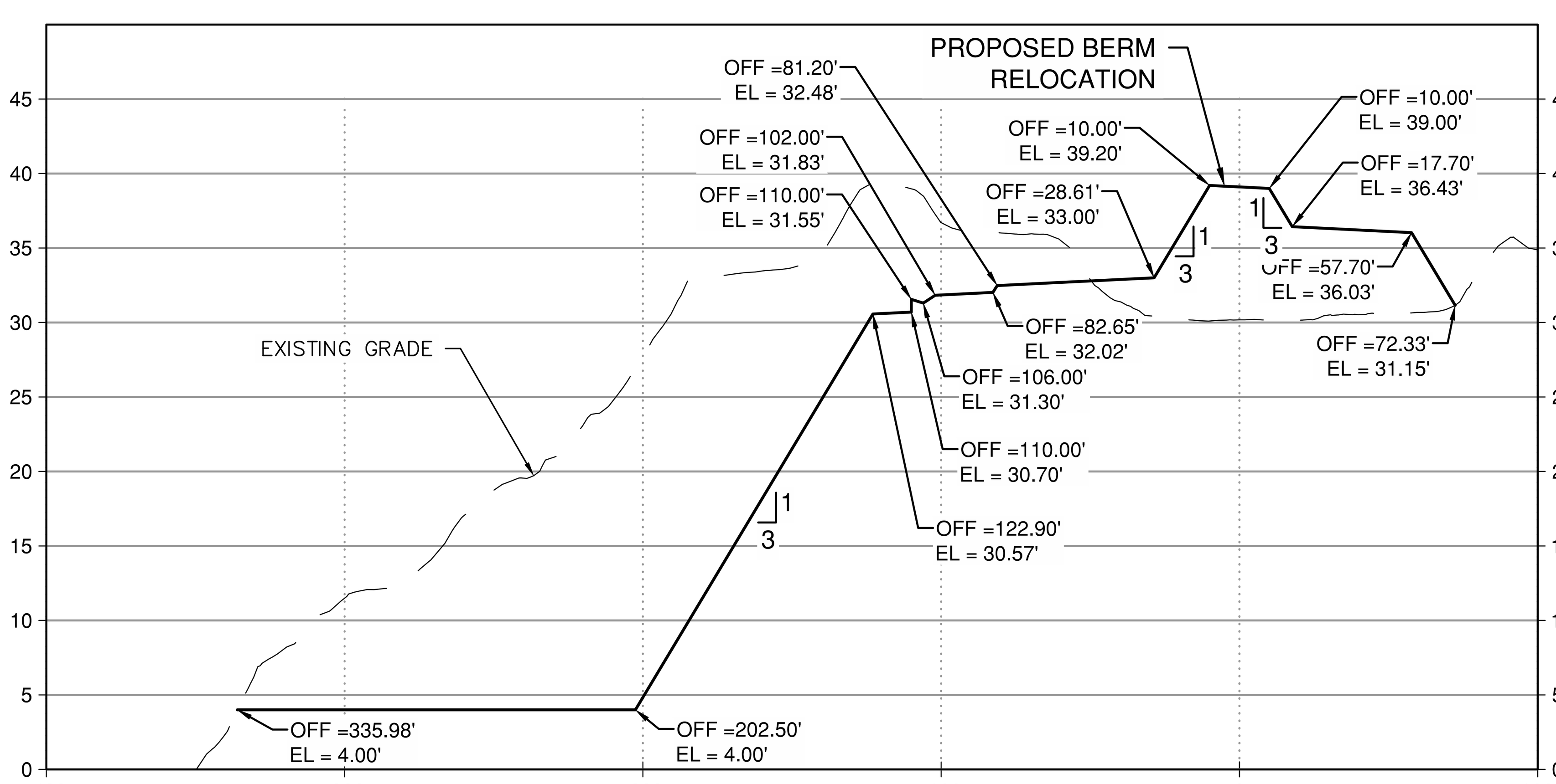

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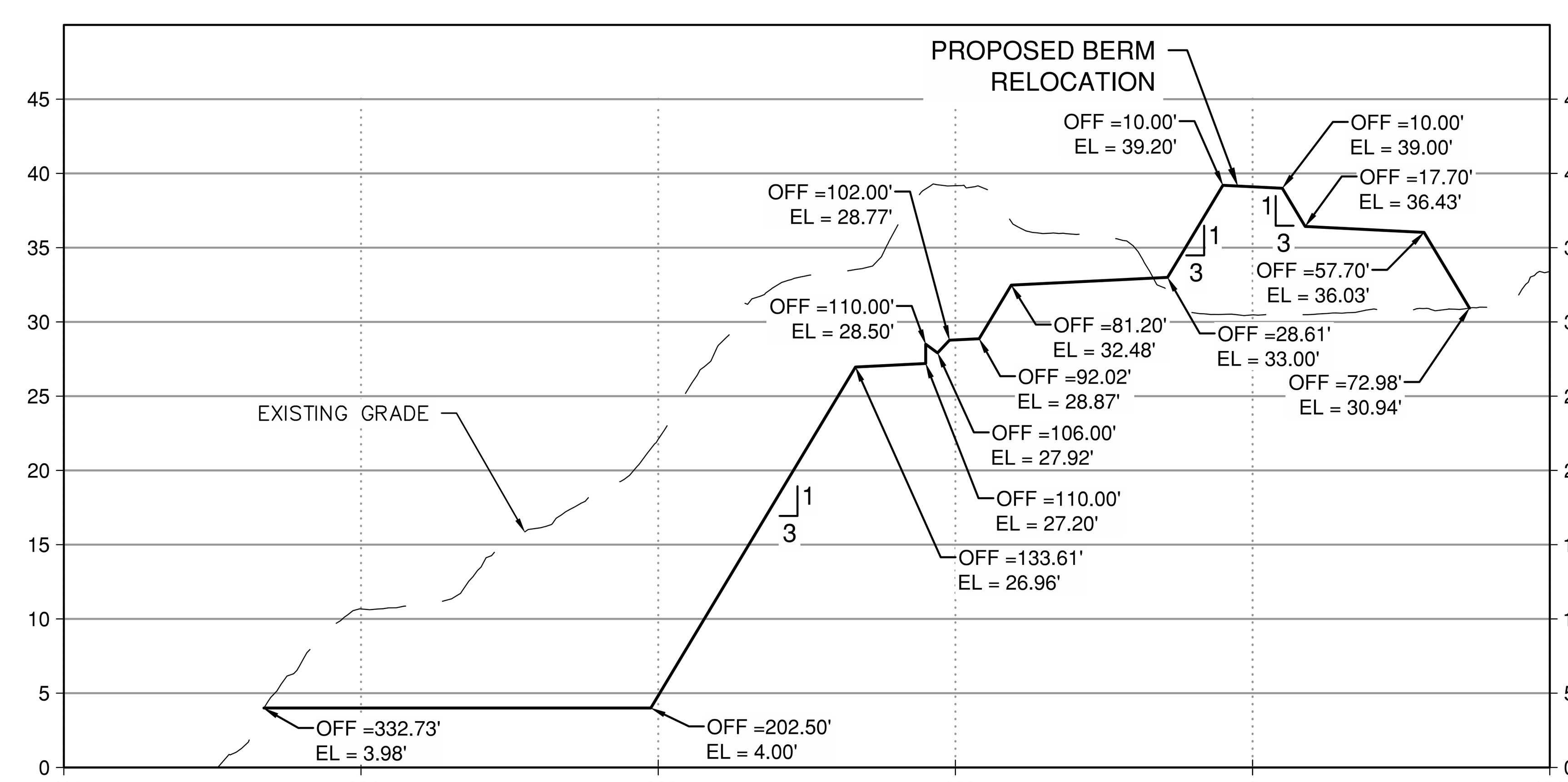

41+00

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.
4. FOR CONTRACTOR'S INFORMATION ONLY. OPTIONAL +4 BENCH GRADED TO DRAIN PRIOR TO DREDGING.

GRAPHIC SCALES

HORIZONTAL 1"=50'
50 25 0 50 100

VERTICAL 1"=10'
10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:
HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (2 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

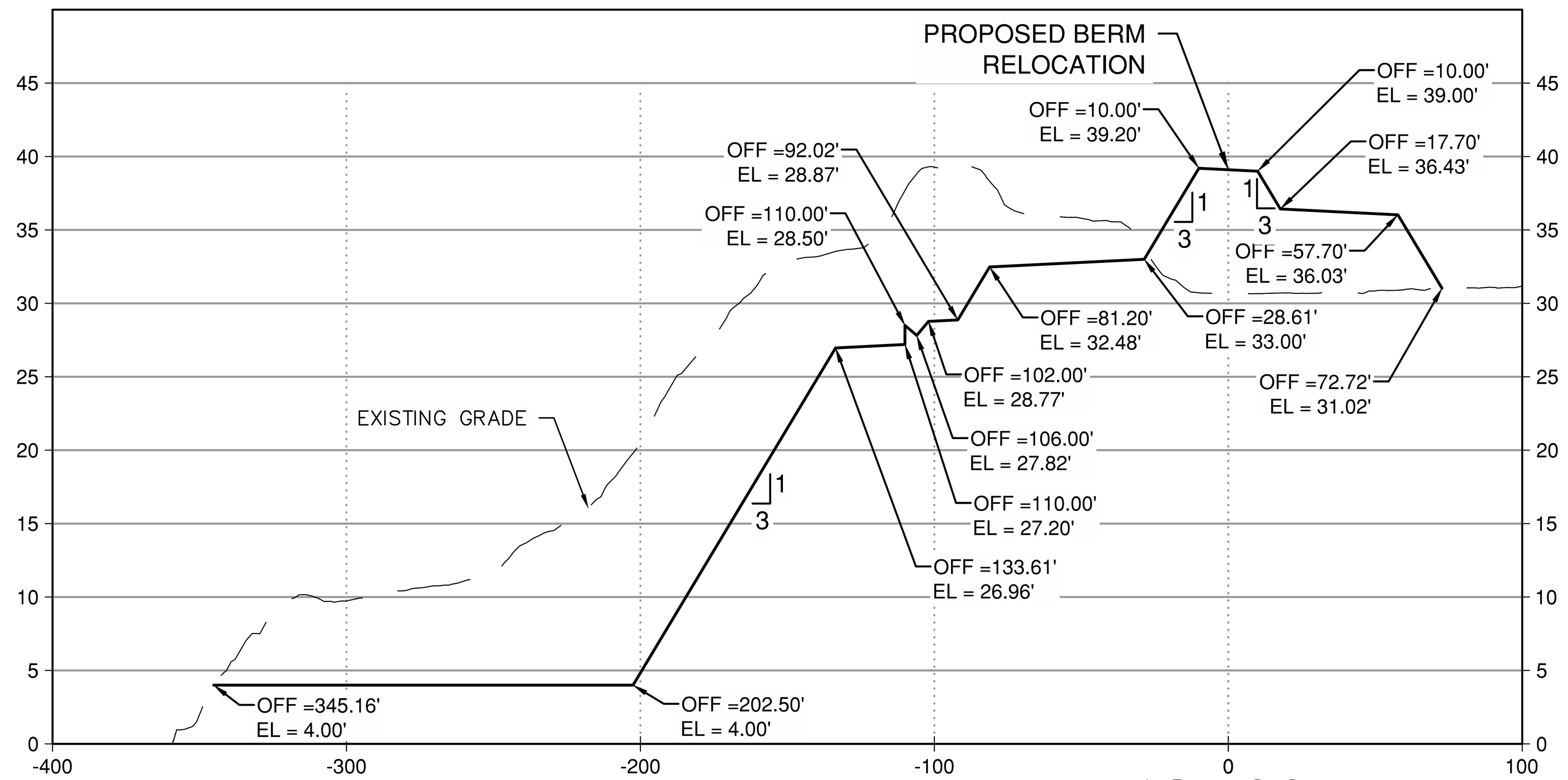
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO.
C90-D13-P11-007

SHEET NO.	REV. NO.
C-534	A

95% REVIEW

TIME: 12-08-20 – 11:38am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-534.dwg



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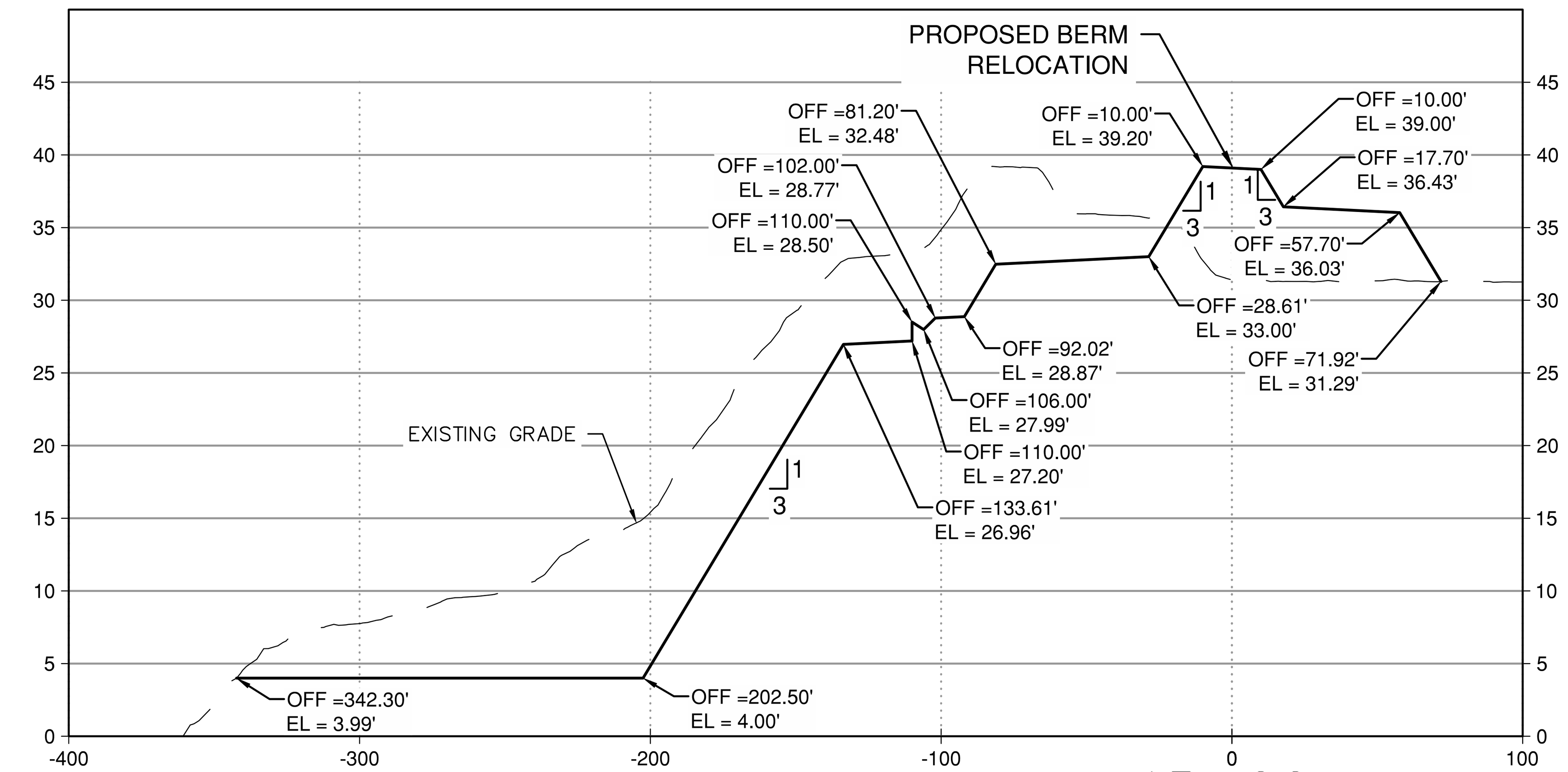

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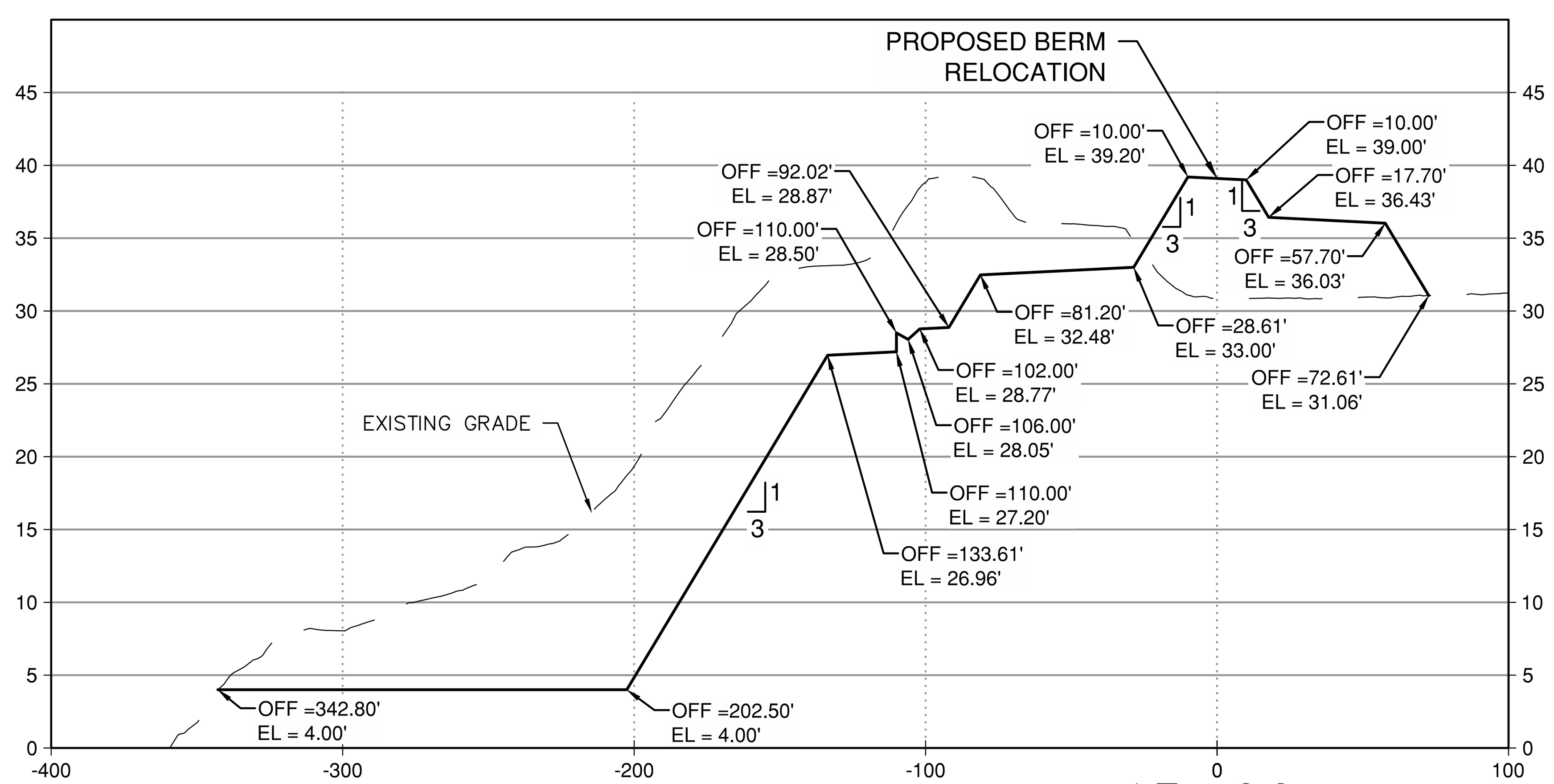

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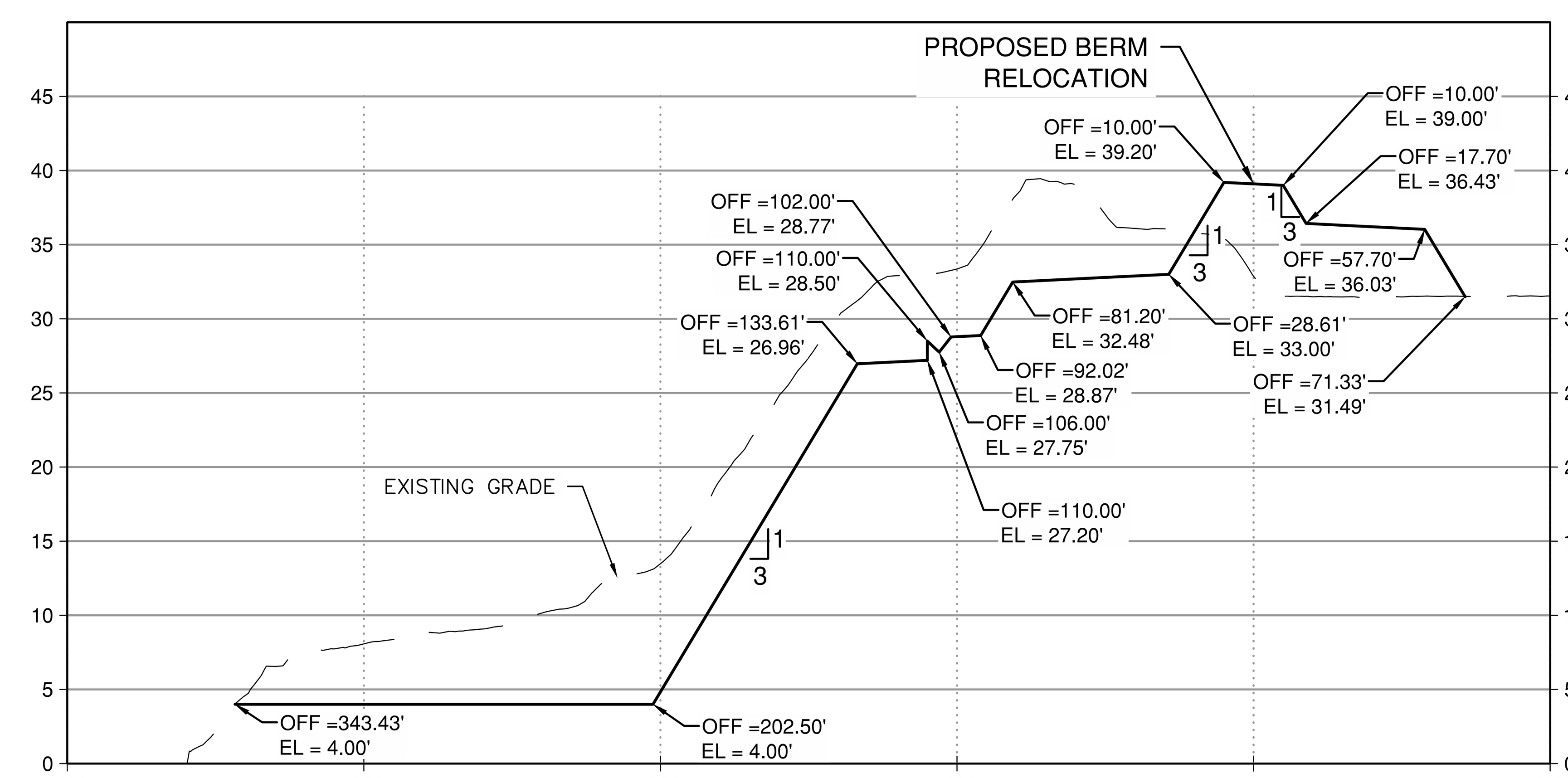

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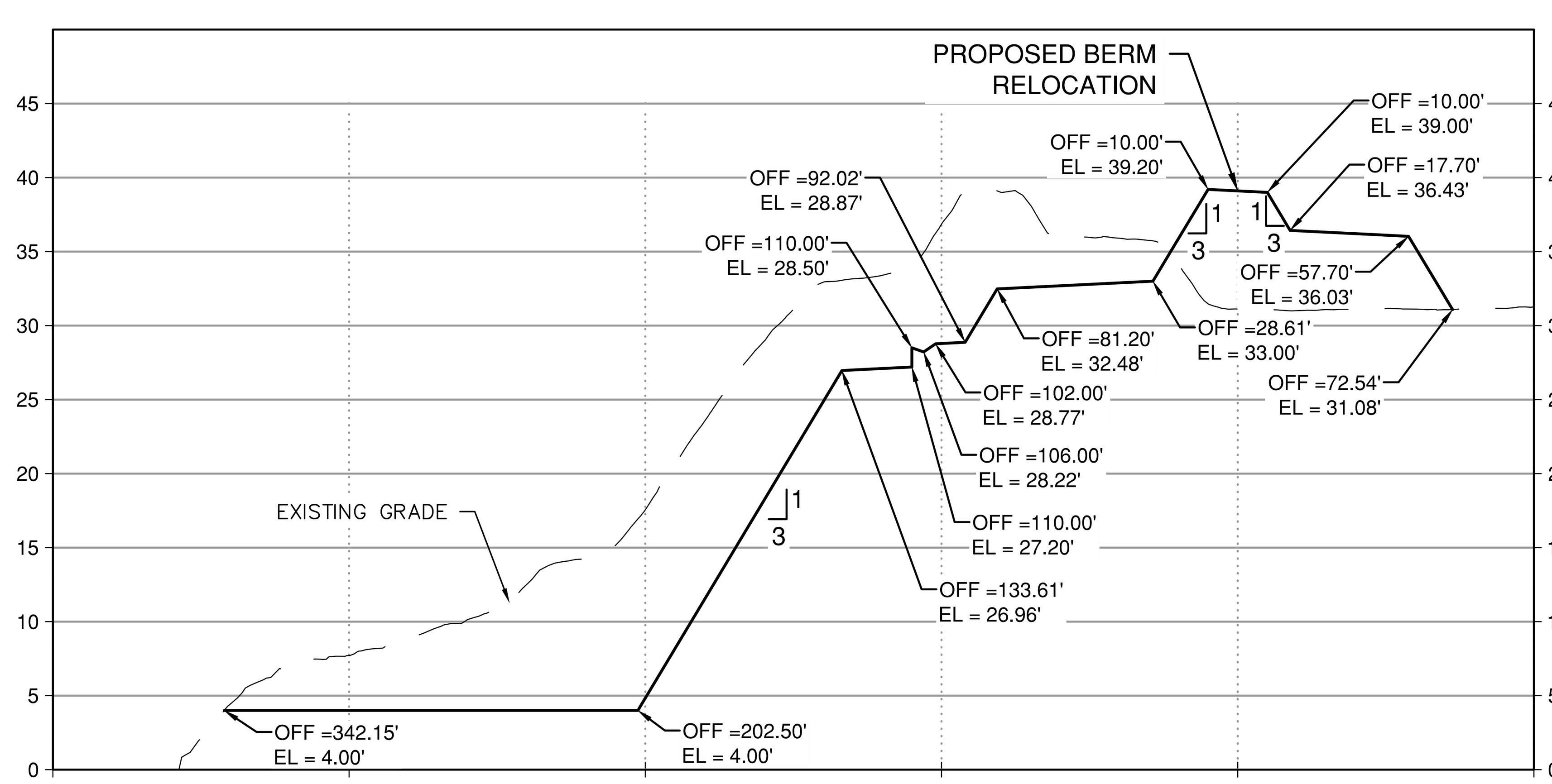

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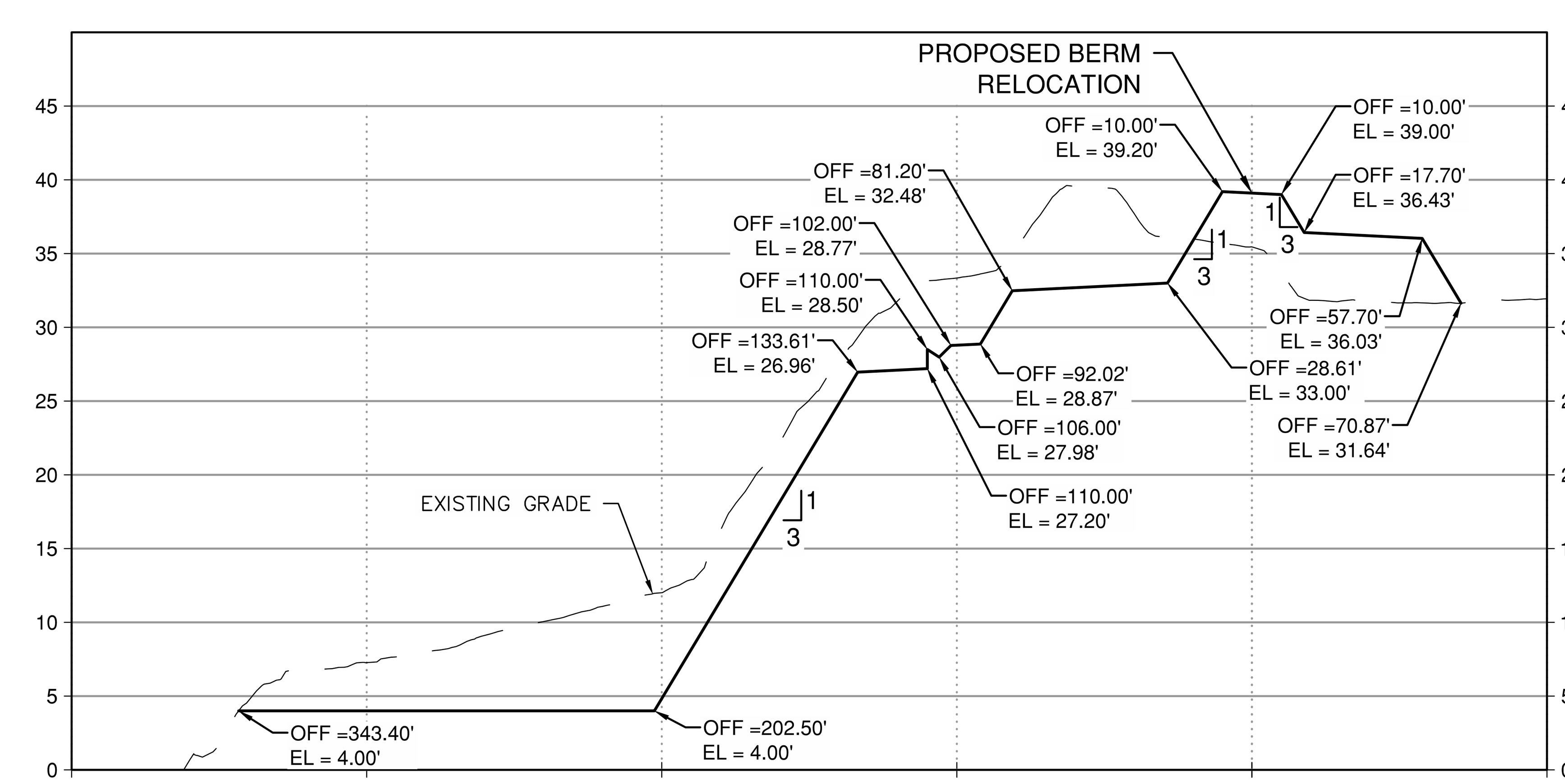

47+00

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.
4. FOR CONTRACTOR'S INFORMATION ONLY. OPTIONAL +4 BENCH GRADED TO DRAIN PRIOR TO DREDGING.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (3 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

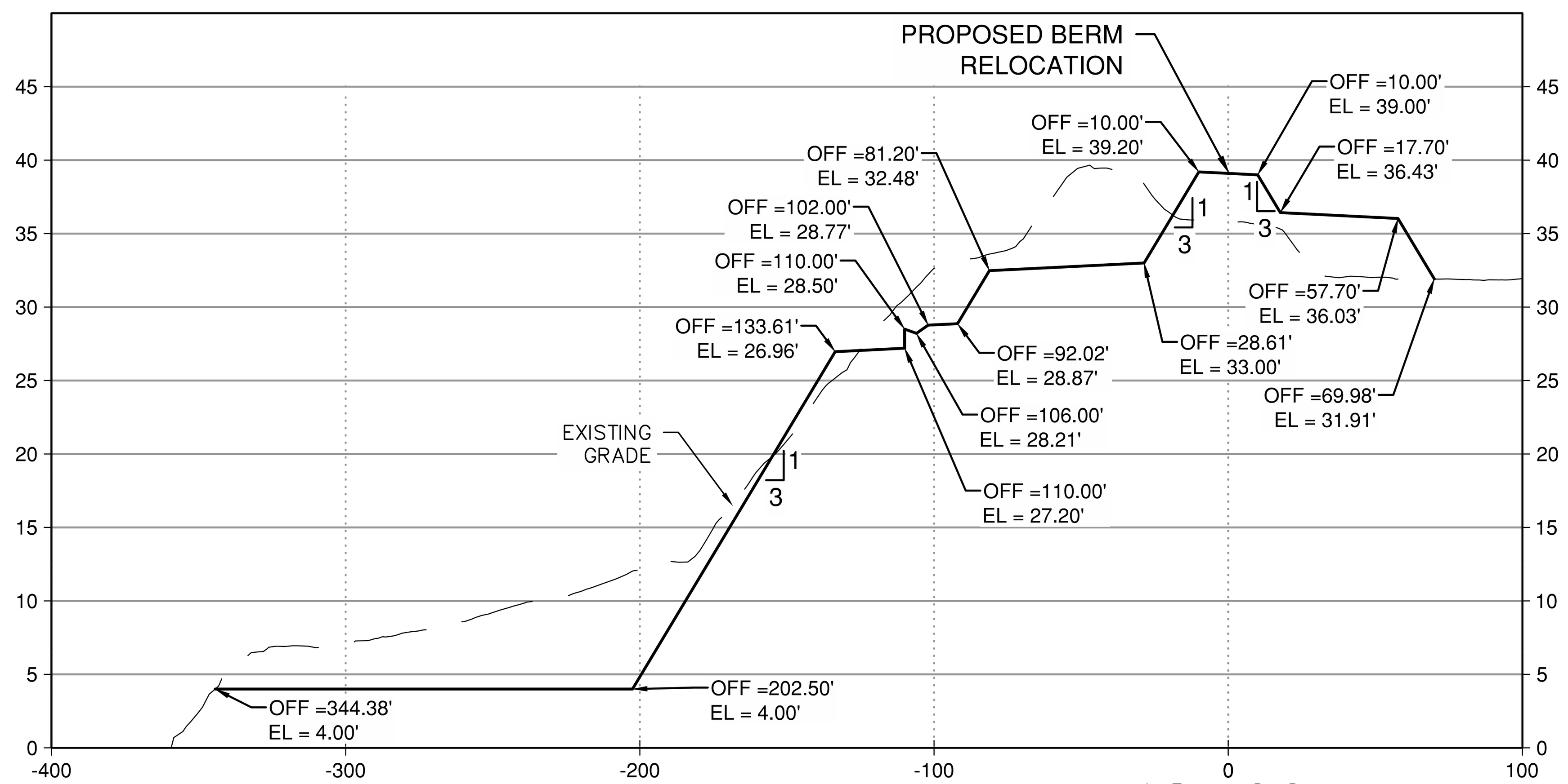
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO.
C90-D13-P11-007

SHEET NO. C-535 | REV. NO. A

95% REVIEW

TIME: 12-08-20 - 11:40am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-535.dwg



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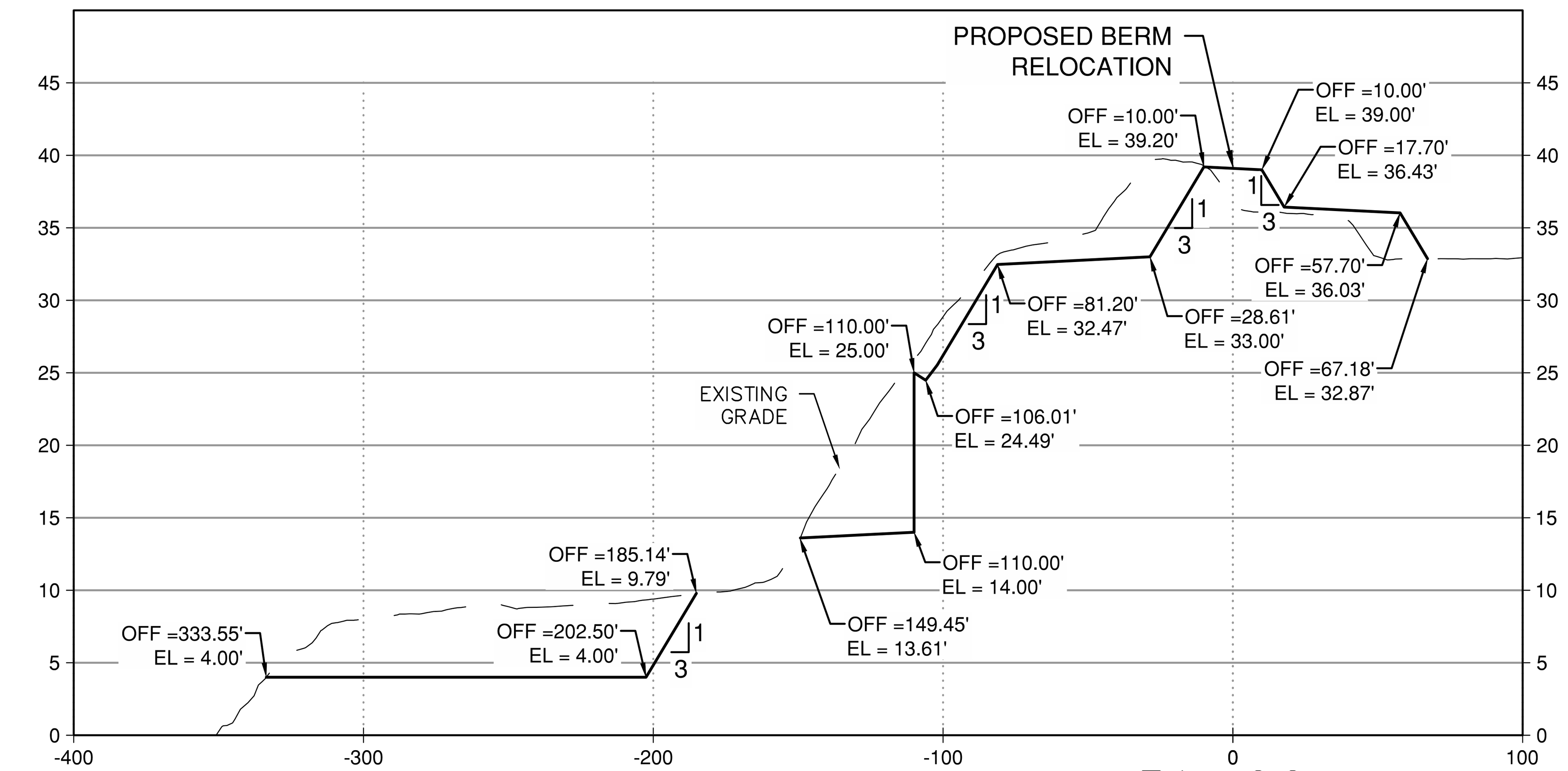

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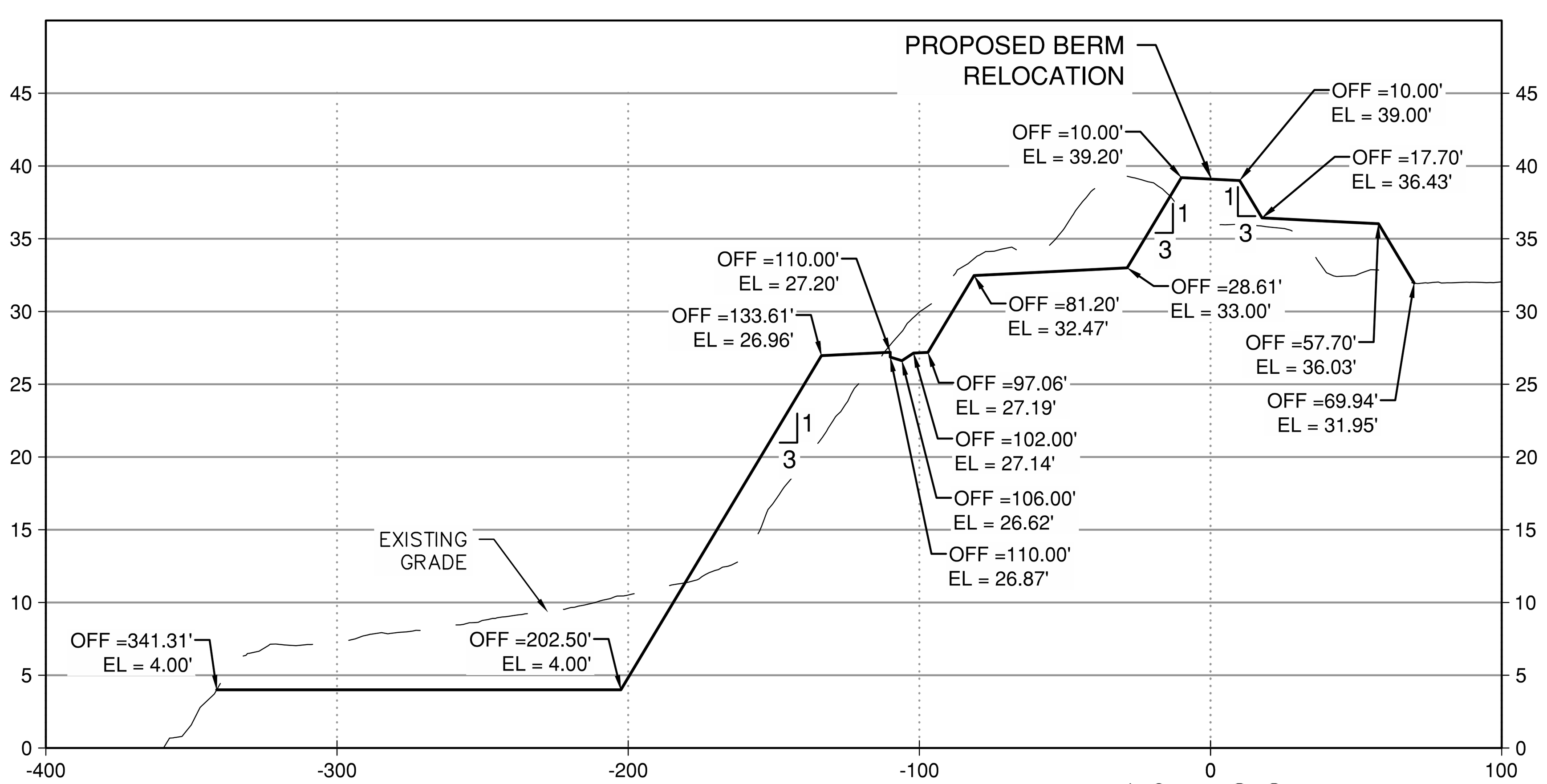

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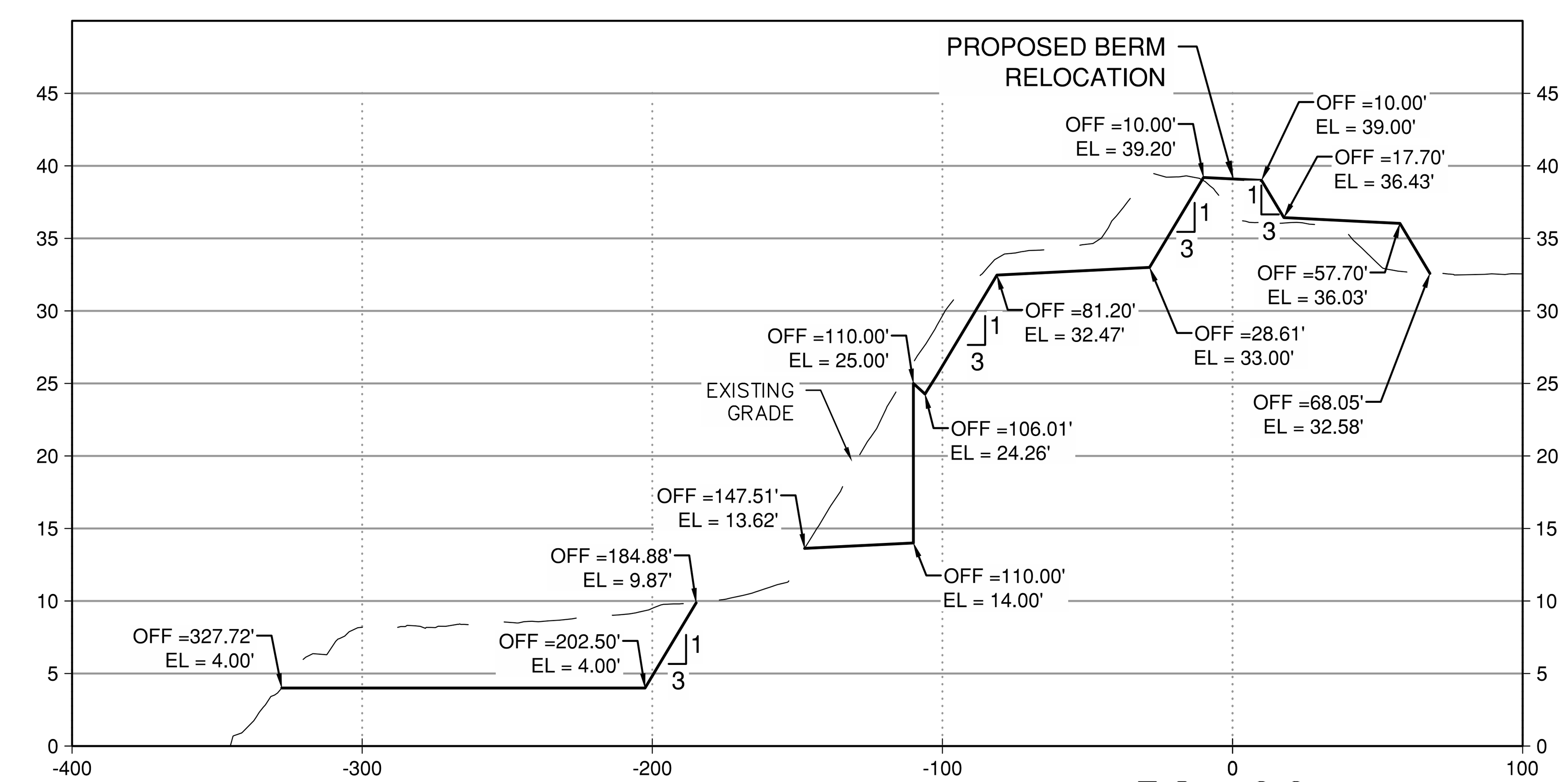

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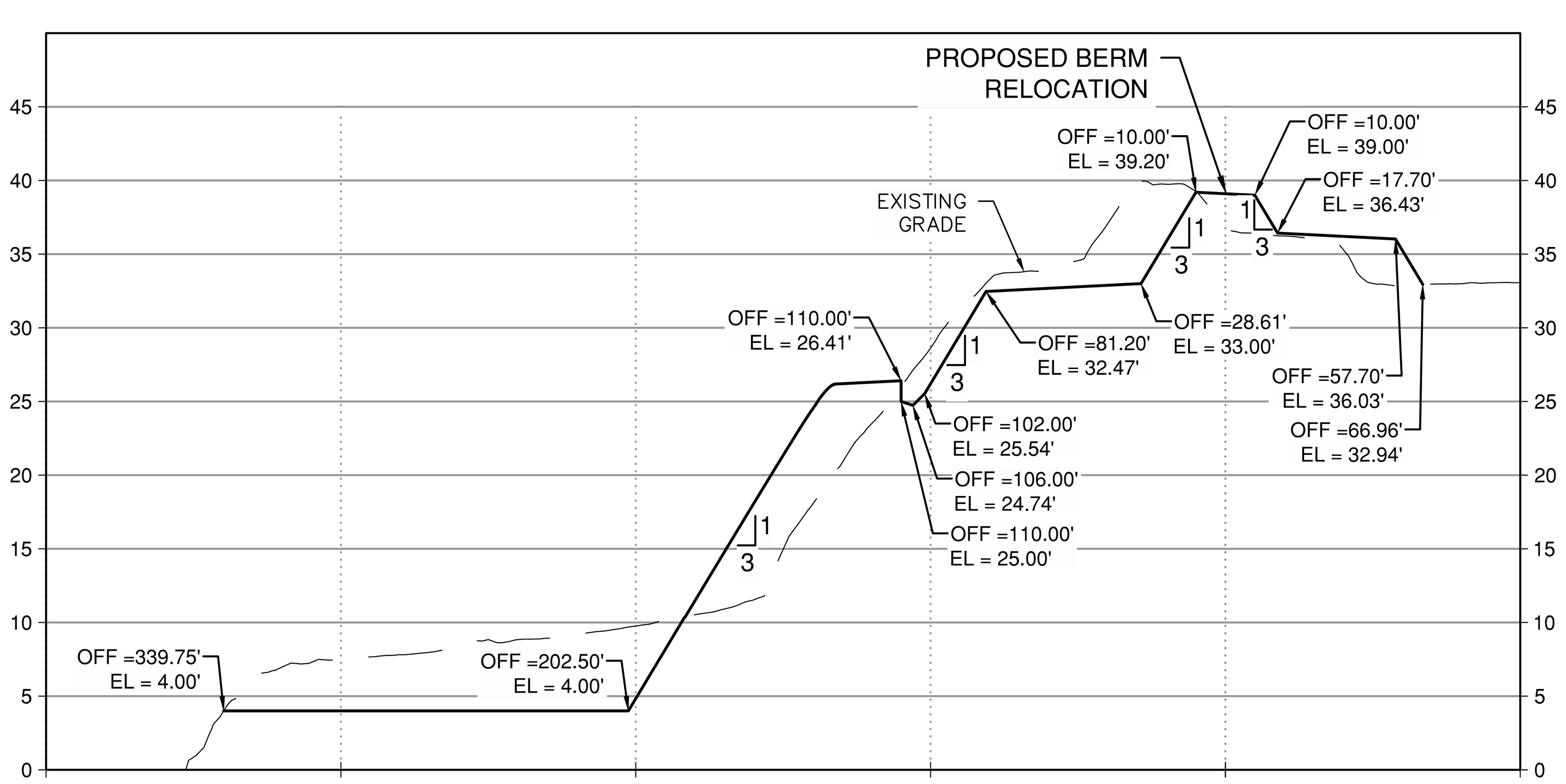

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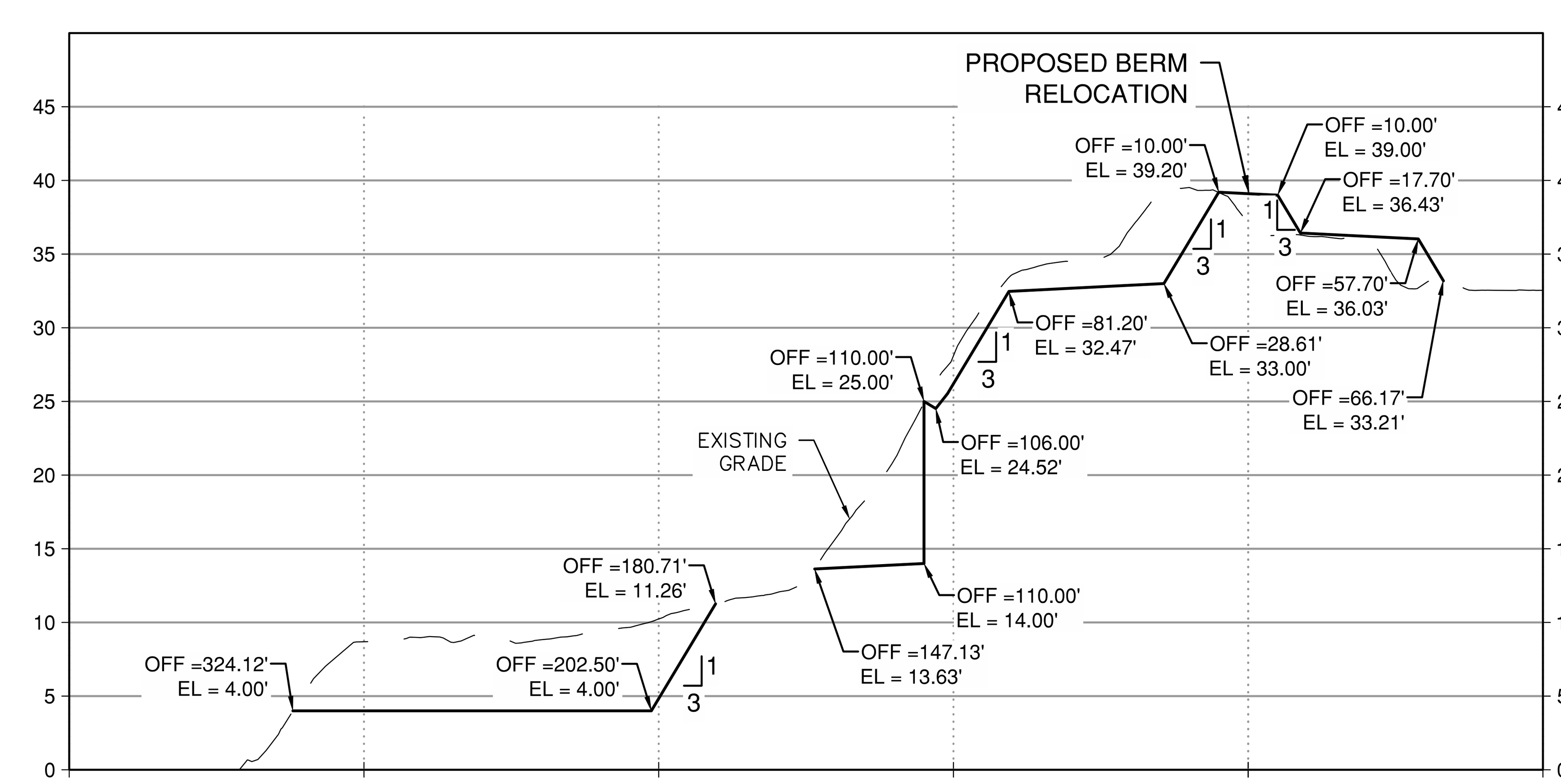

53+00

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.
4. FOR CONTRACTOR'S INFORMATION ONLY. OPTIONAL +4 BENCH GRADED TO DRAIN PRIOR TO DREDGING.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (4 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

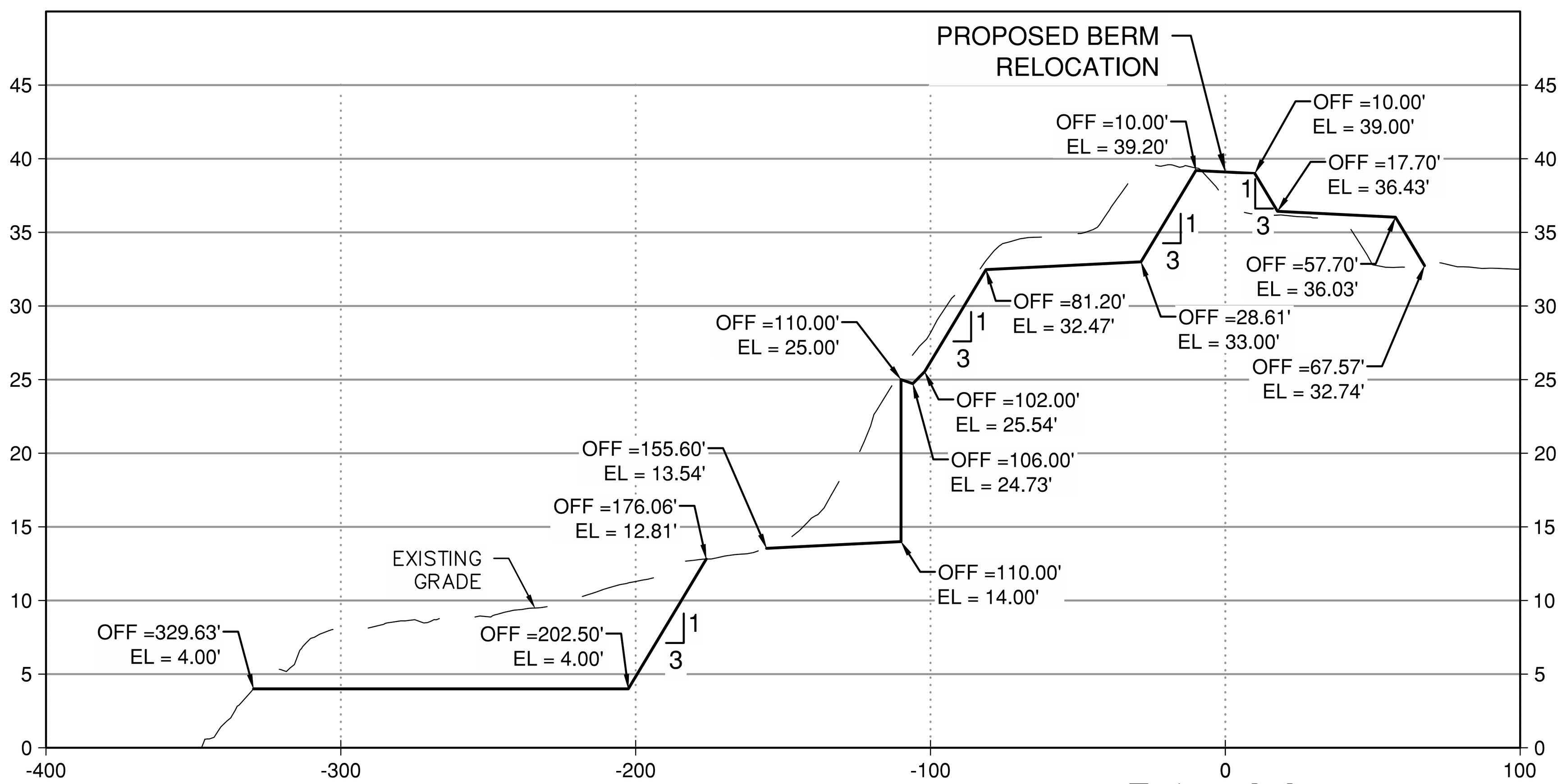
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-007

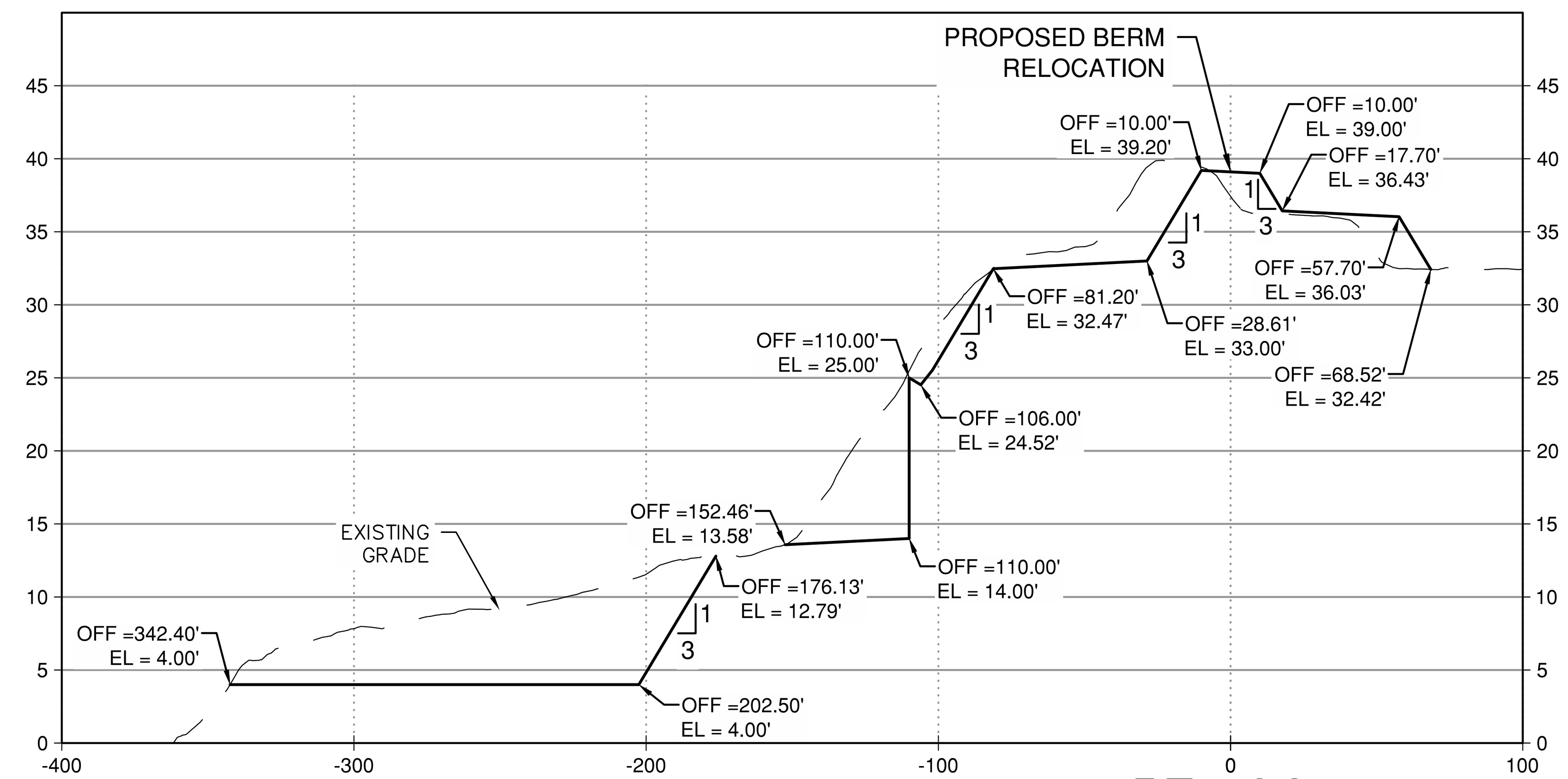
SHEET NO. C-536 REV. NO. A

95% REVIEW

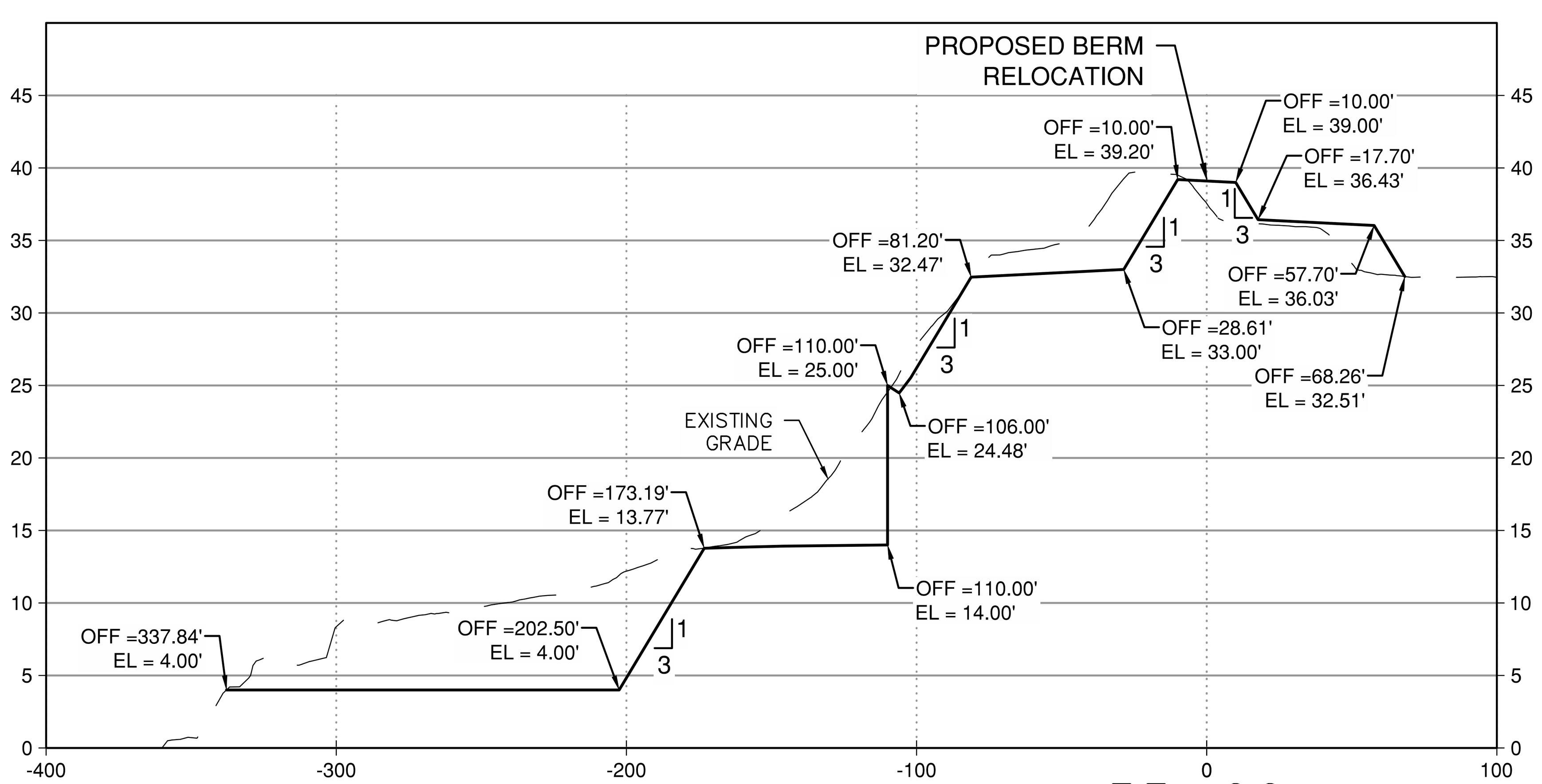
TIME: 12-08-20 – 11:41am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-536.dwg



54+00



57+00



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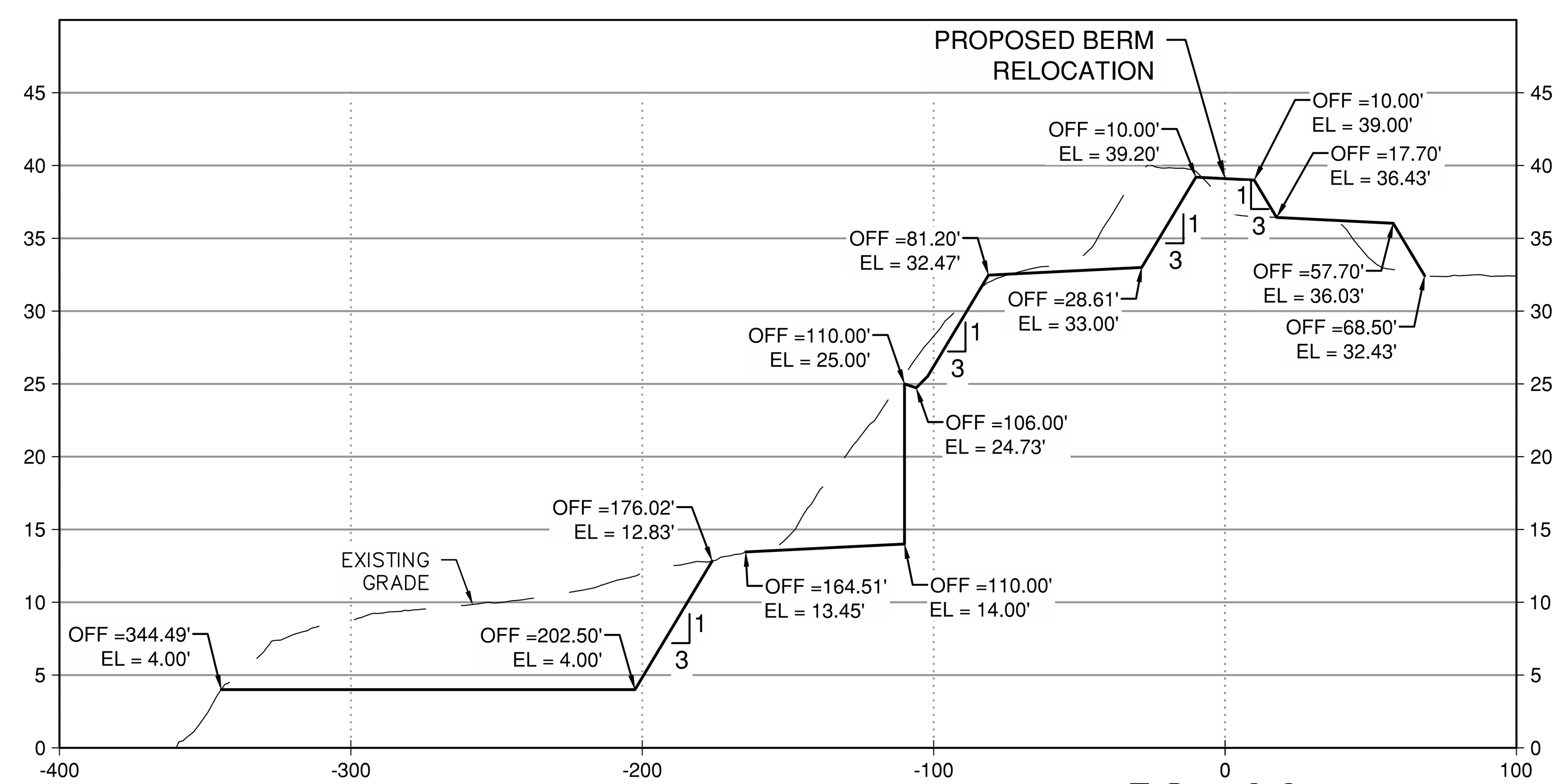

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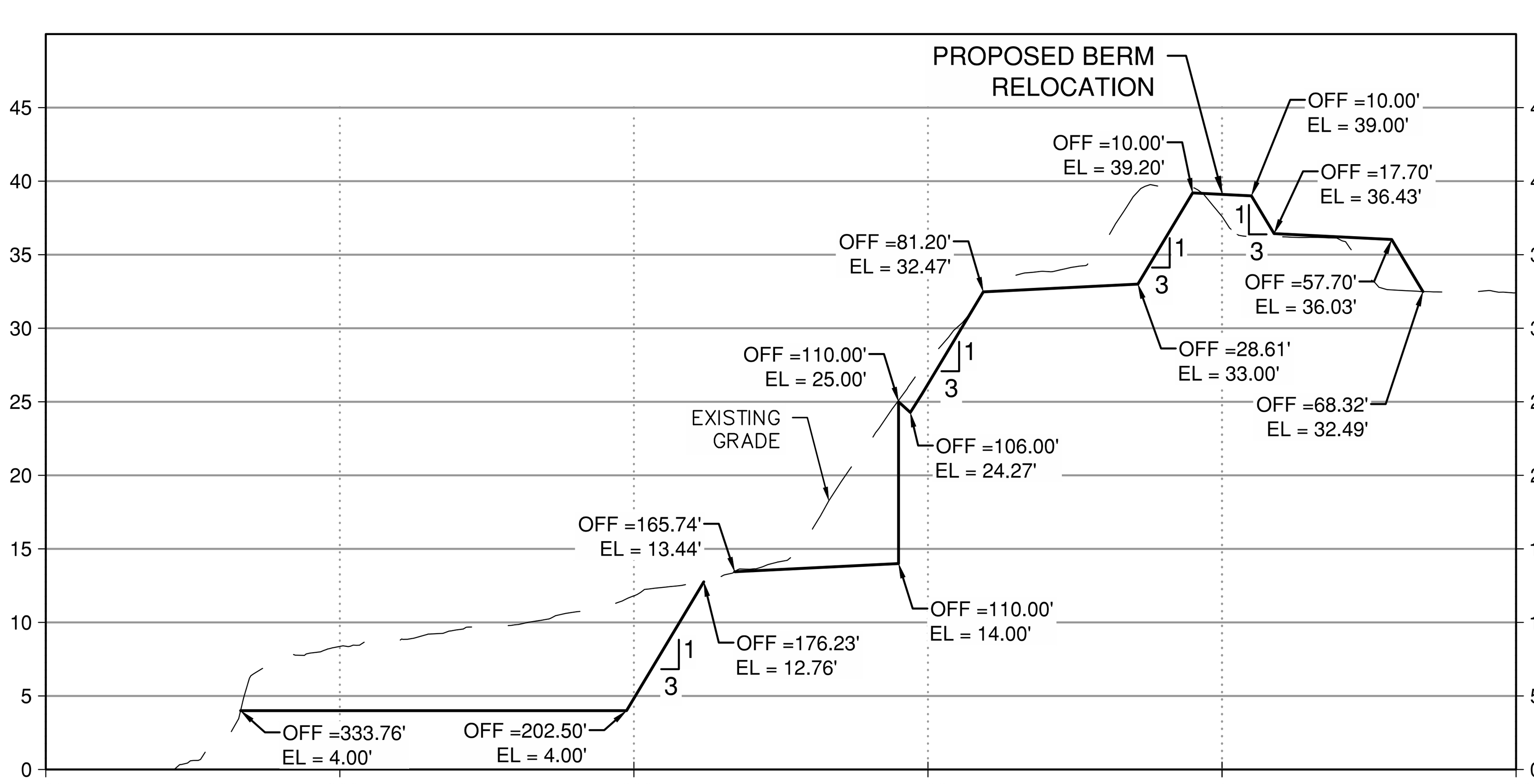

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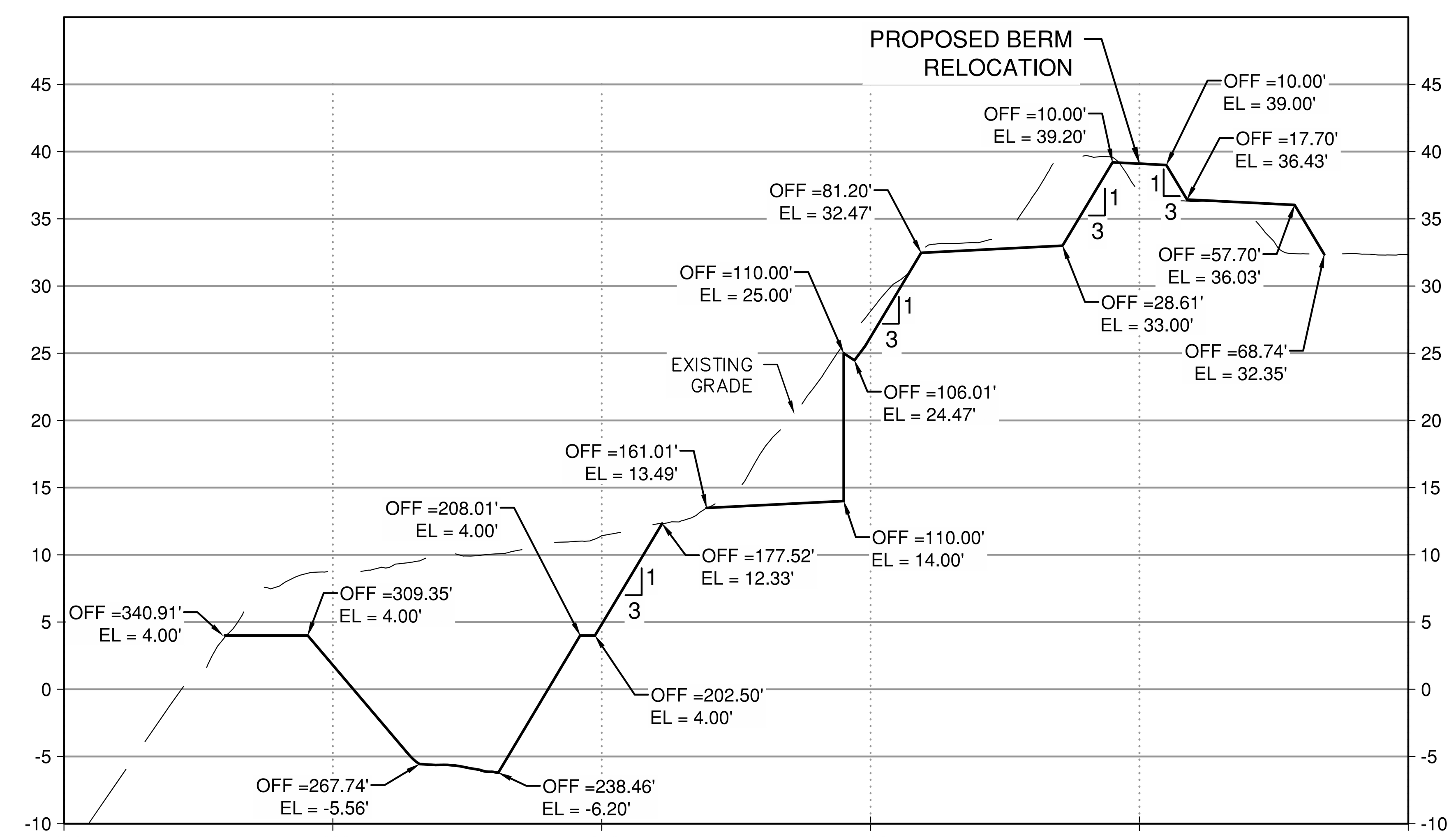

59+00

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.
4. FOR CONTRACTOR'S INFORMATION ONLY. OPTIONAL +4 BENCH GRADED TO DRAIN PRIOR TO DREDGING.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (5 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

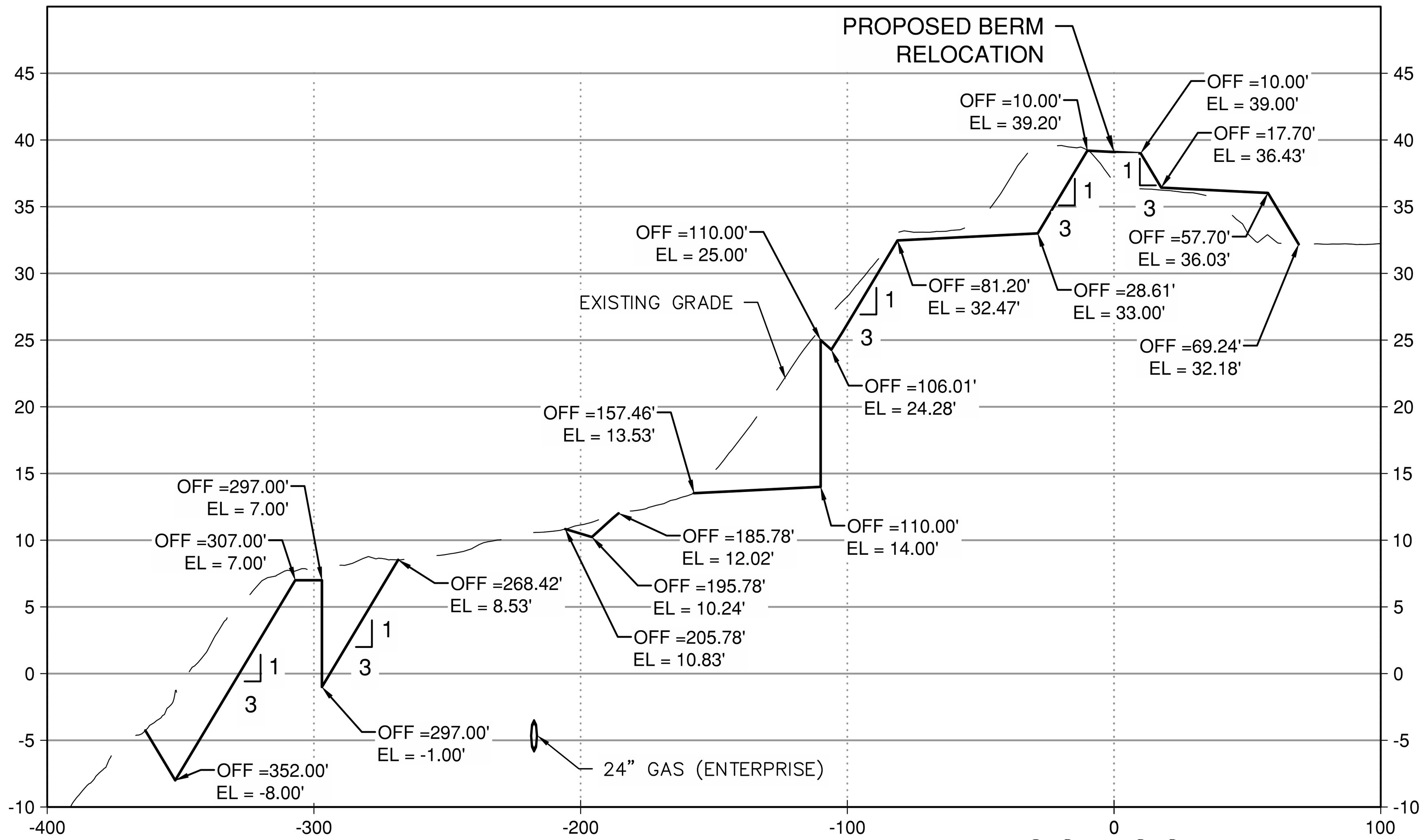
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO.
C90-D13-P11-007

SHEET NO.	REV. NO.
C-537	A

95% REVIEW

TIME: 12-08-20 – 11:43am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-537.dwg



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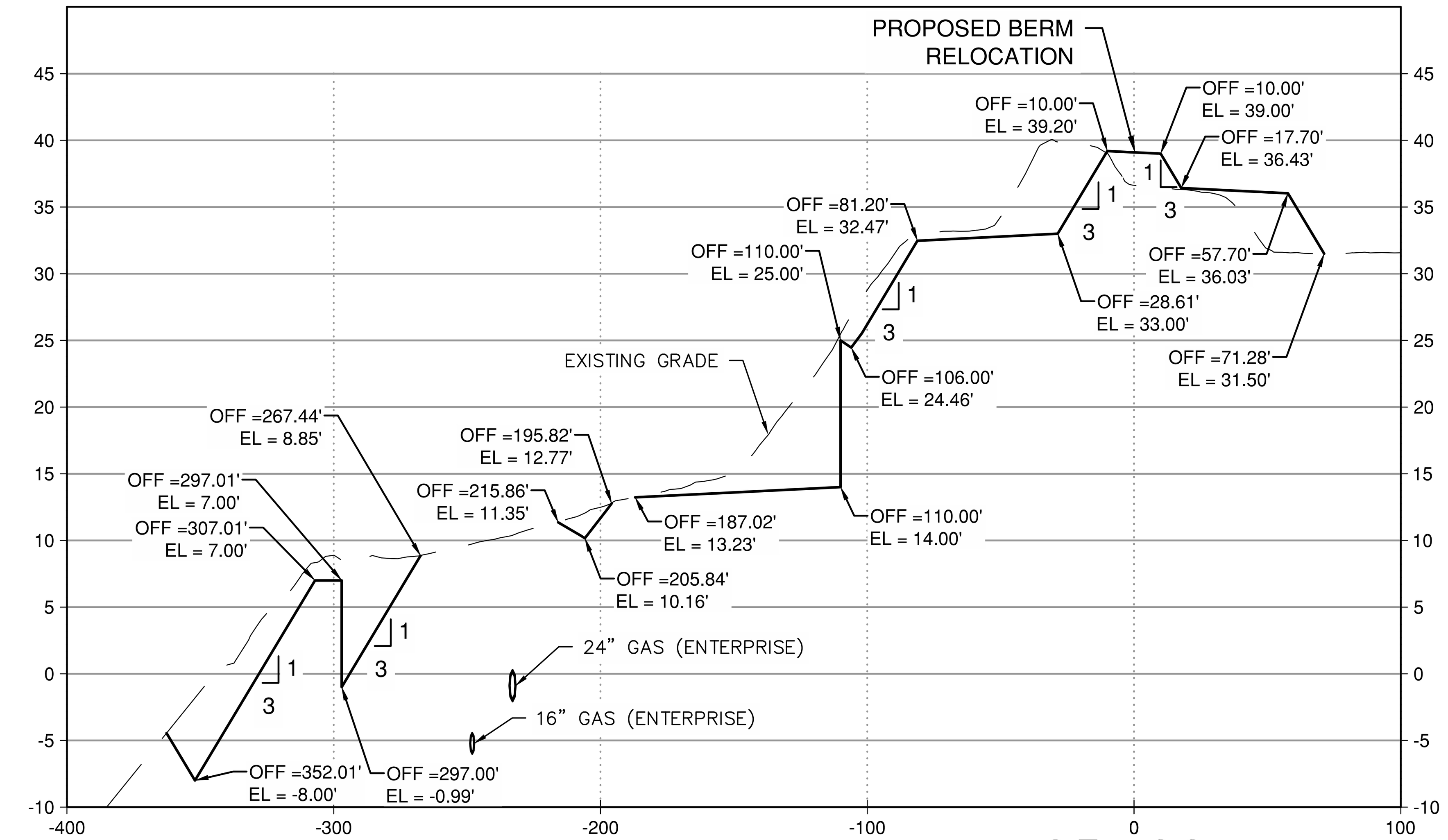

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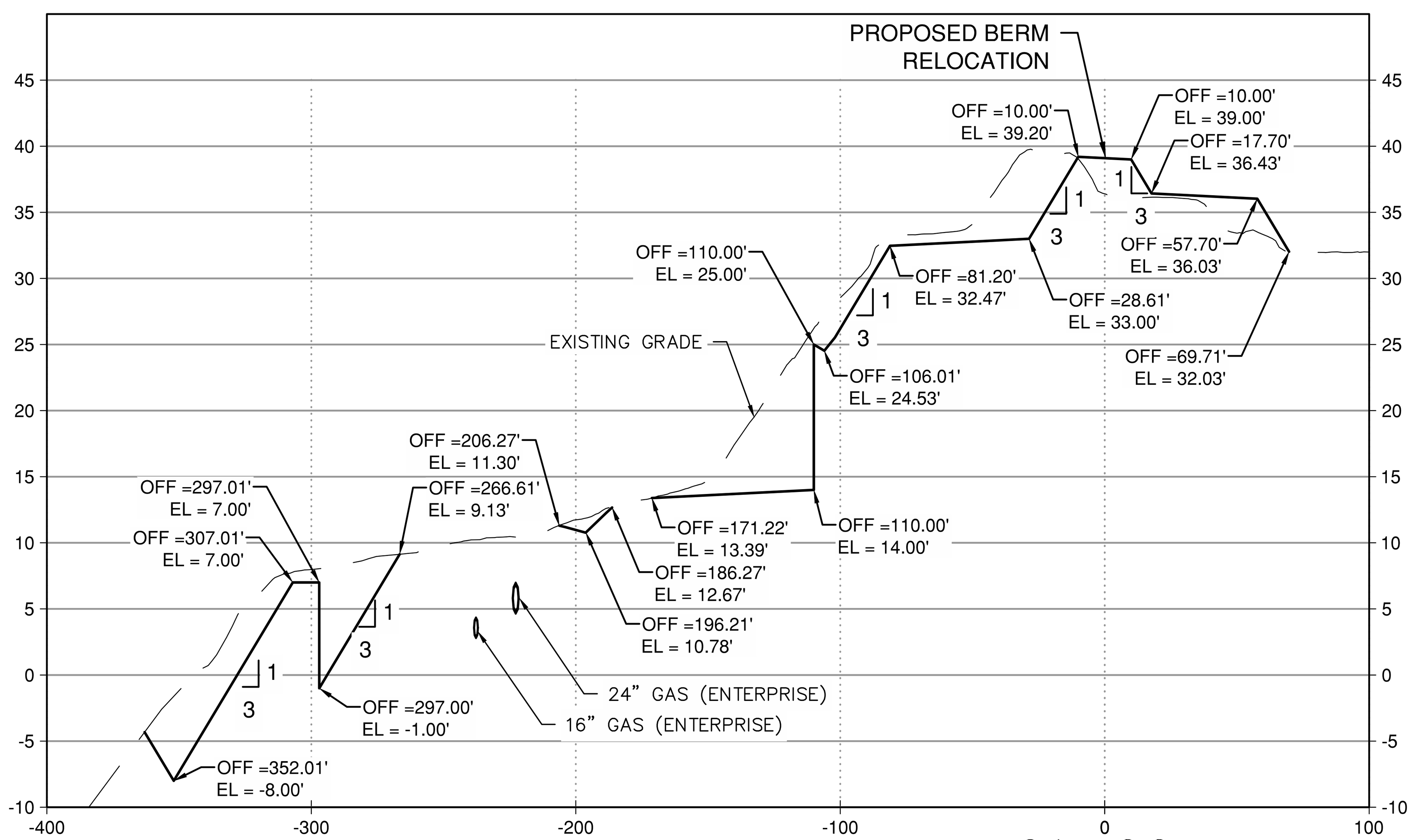

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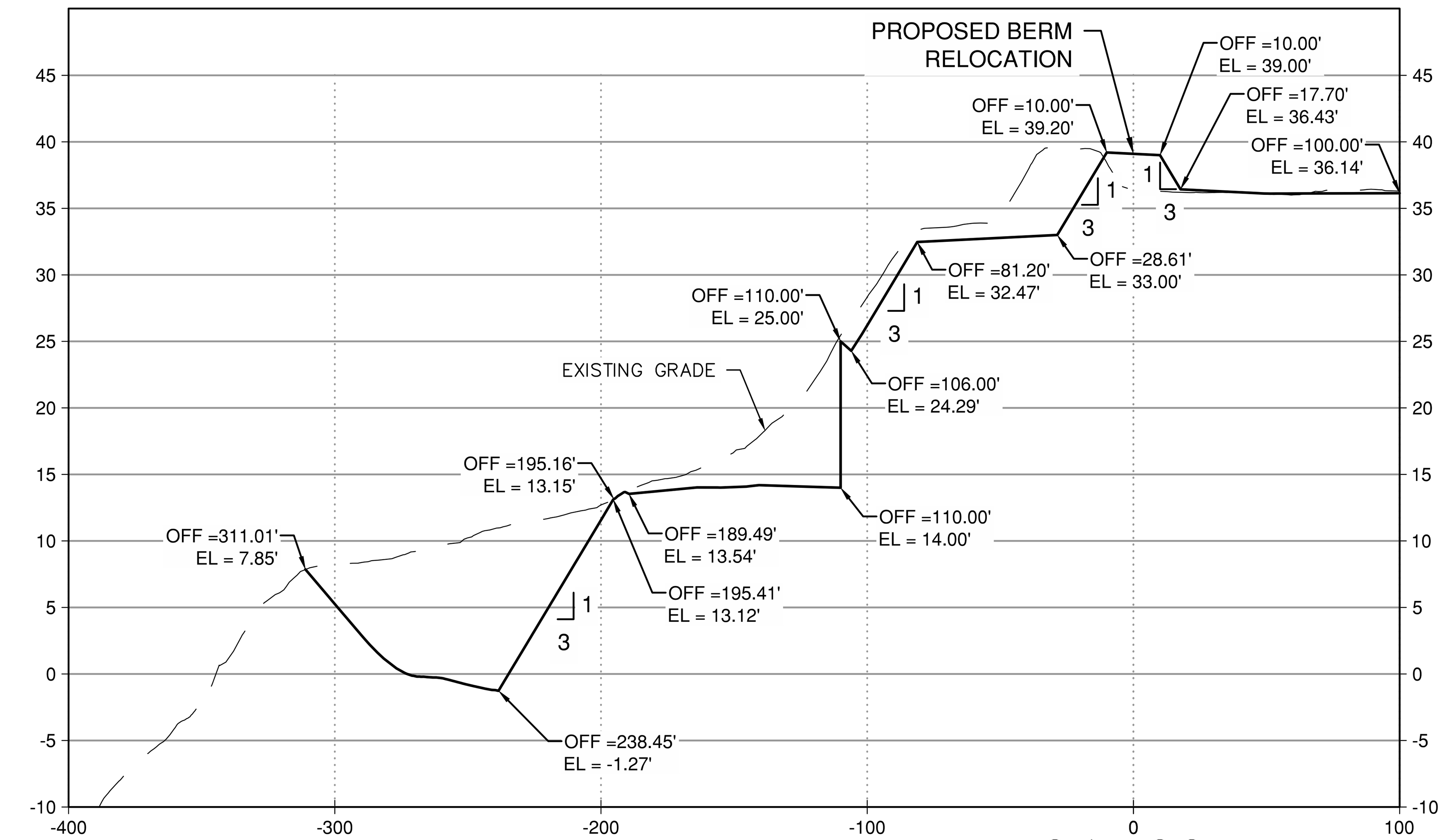
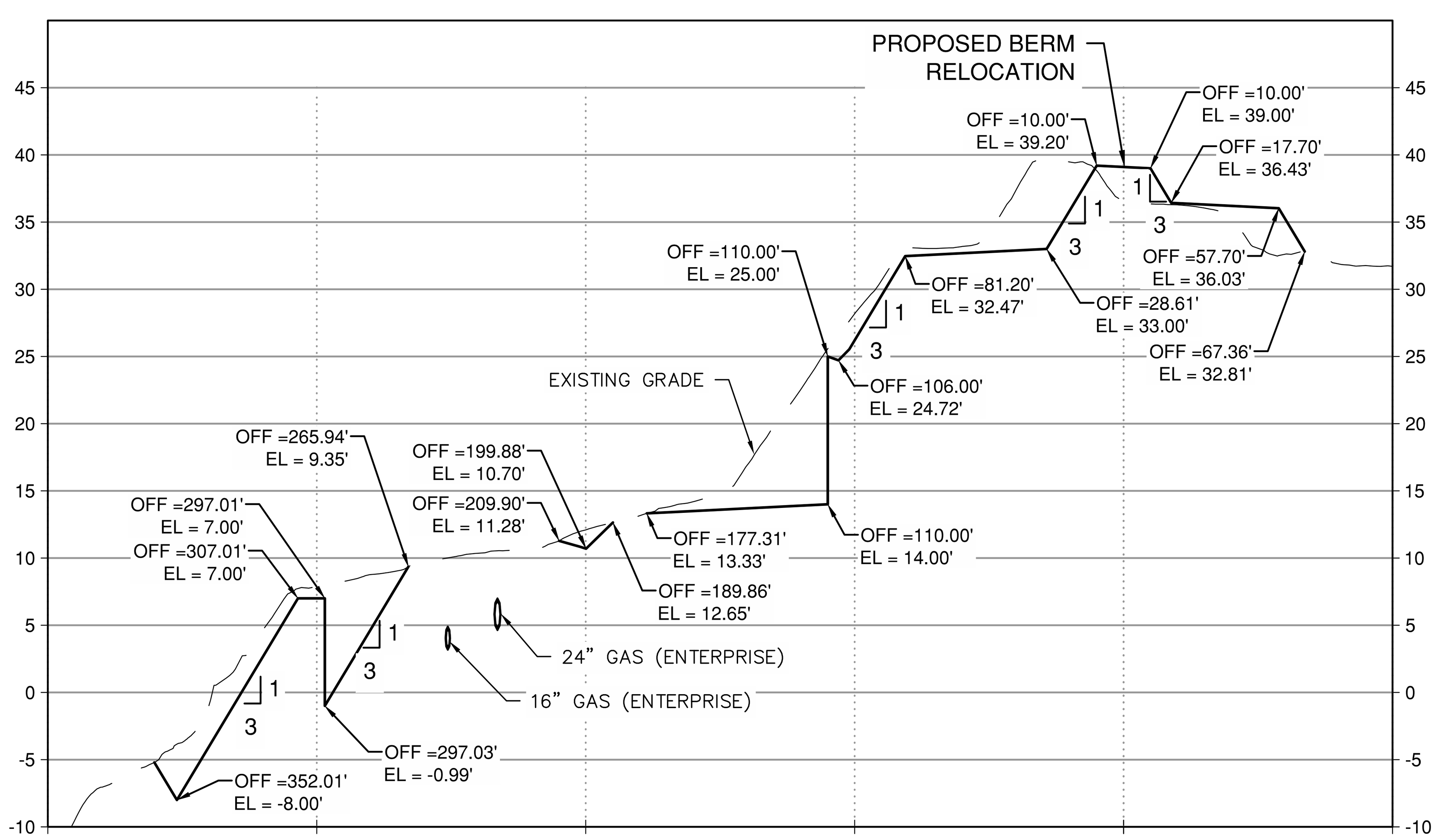
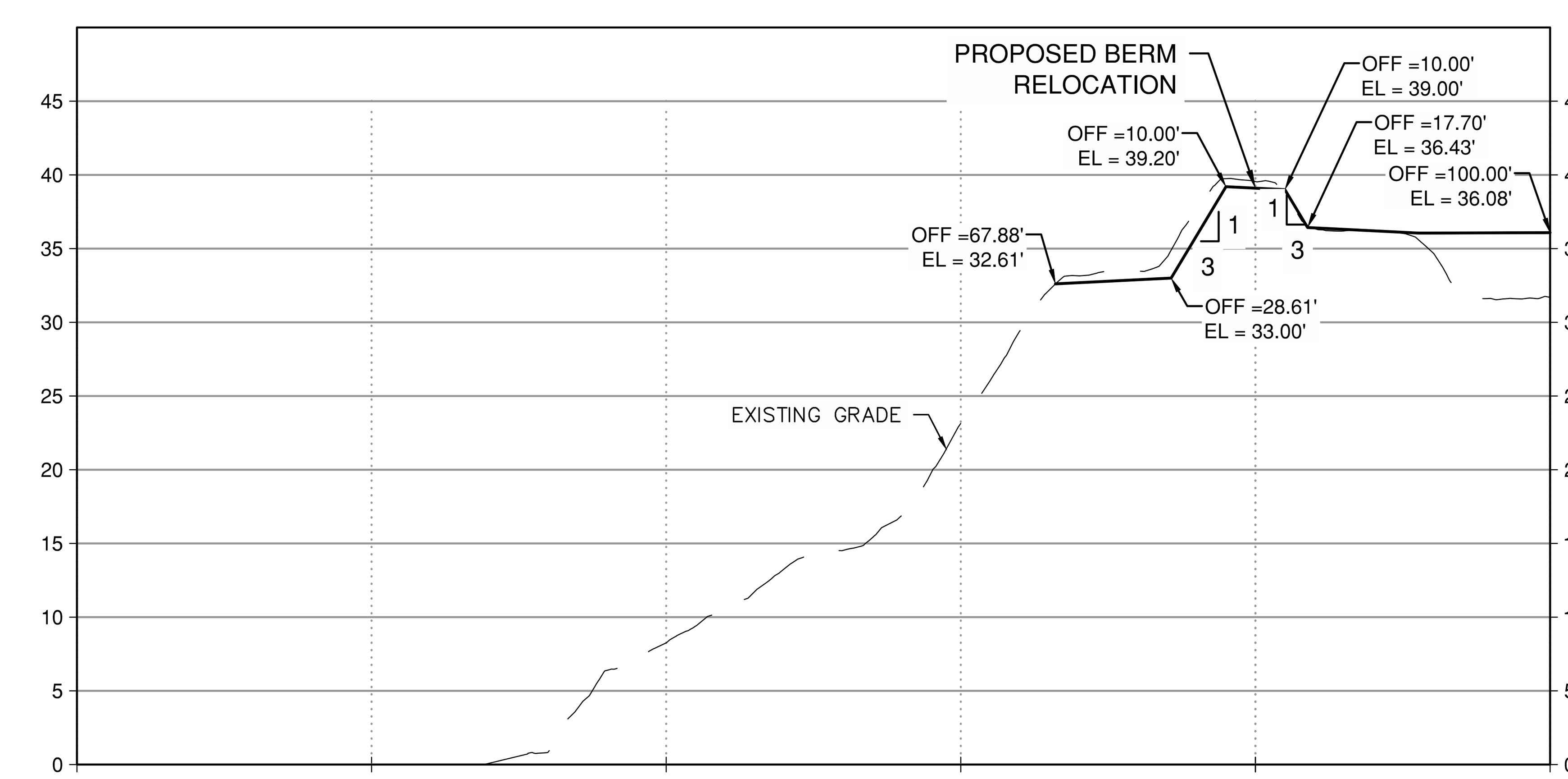


64+00



62+00



65+00

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY · HOUSTON, TEXAS

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

**PROJECT 11
PACKAGE #7
SEGMENT 3**

SHEET TITLE:

EARTHWORK CROSS SECTIONS (6 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

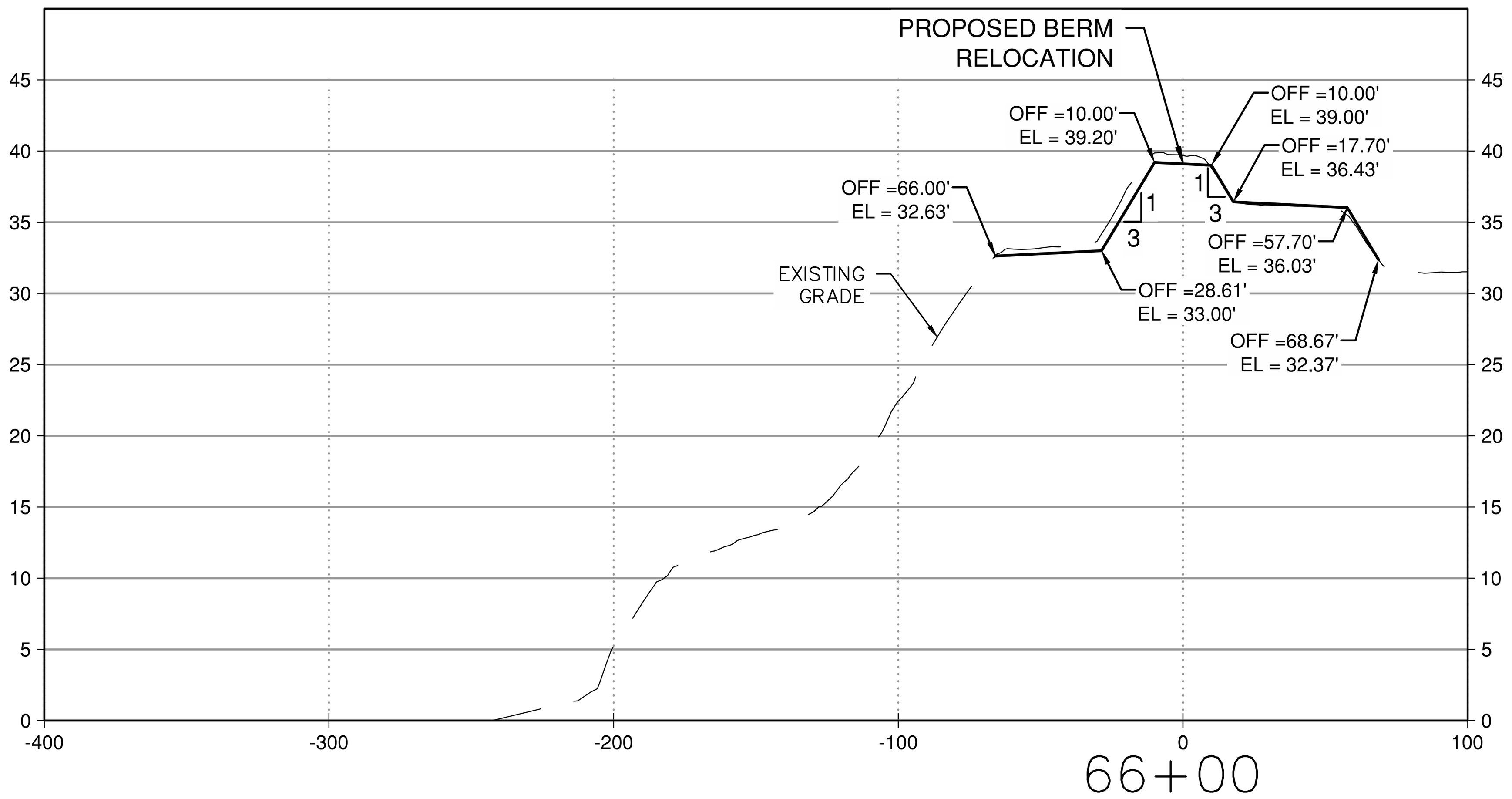
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

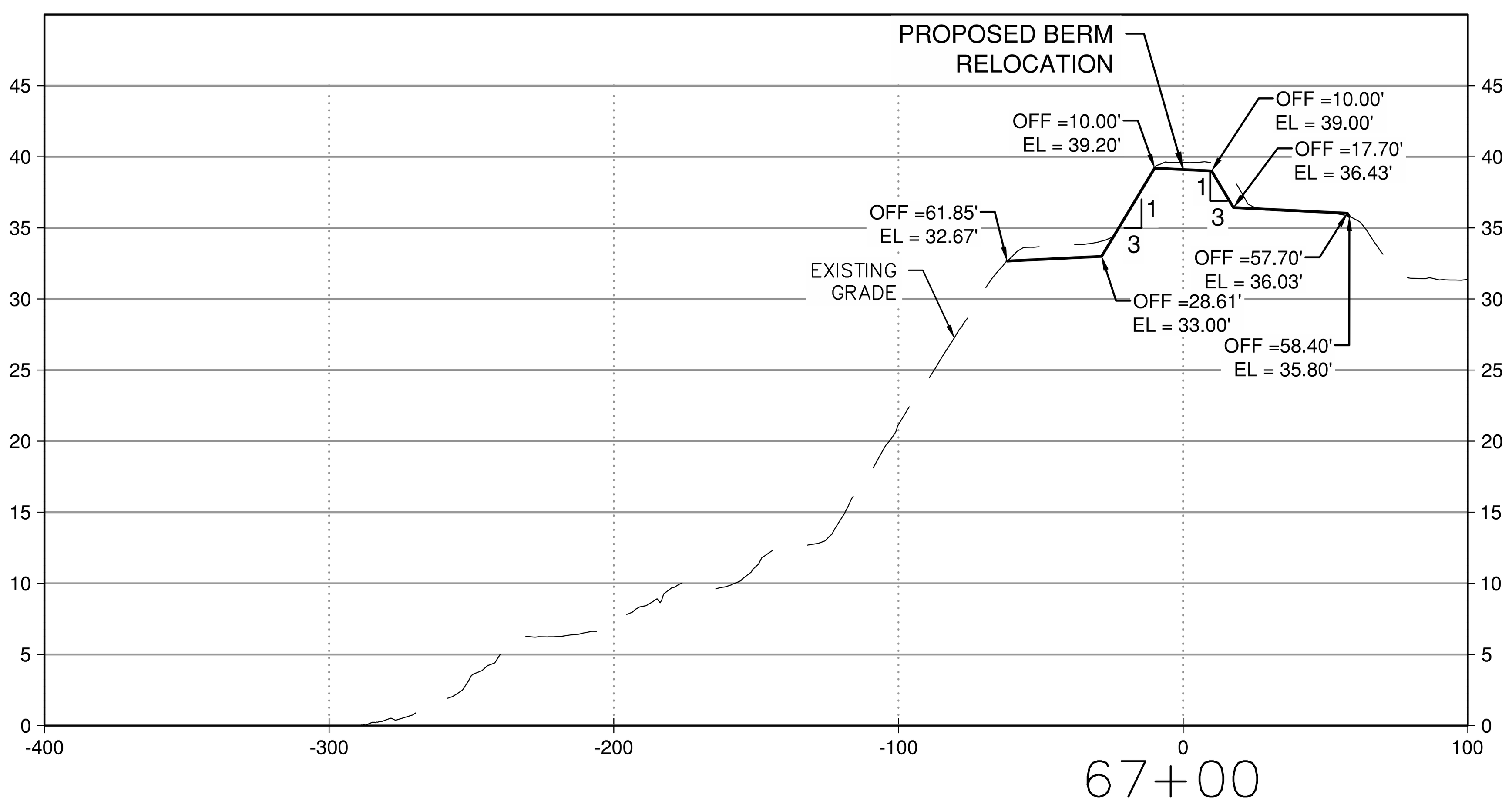
DRAWING NO. C90-D13-P11-007

SHEET NO. C-538 | REV. NO. A

95% REVIEW

TIME: 12-08-20 – 11:45am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-538.dwg





GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(NORTH) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING. PROPOSED CROSS-SECTIONS SHOWN IN FRONT(SOUTH) OF THE BULKHEAD CUT OFF WALL REFLECT AN OPTIONAL INTERM GRADING PLAN FOR CONTRACTOR'S INFORMATION ONLY.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

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PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (7 OF 7)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

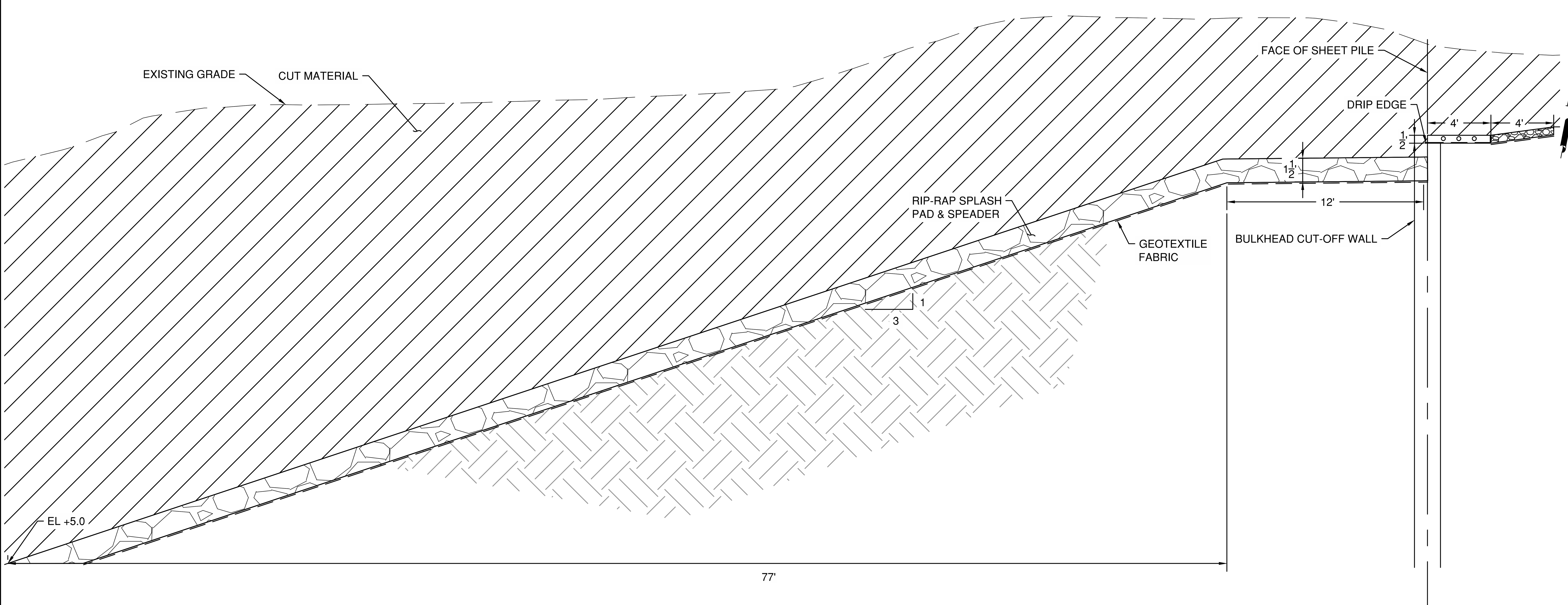
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-007

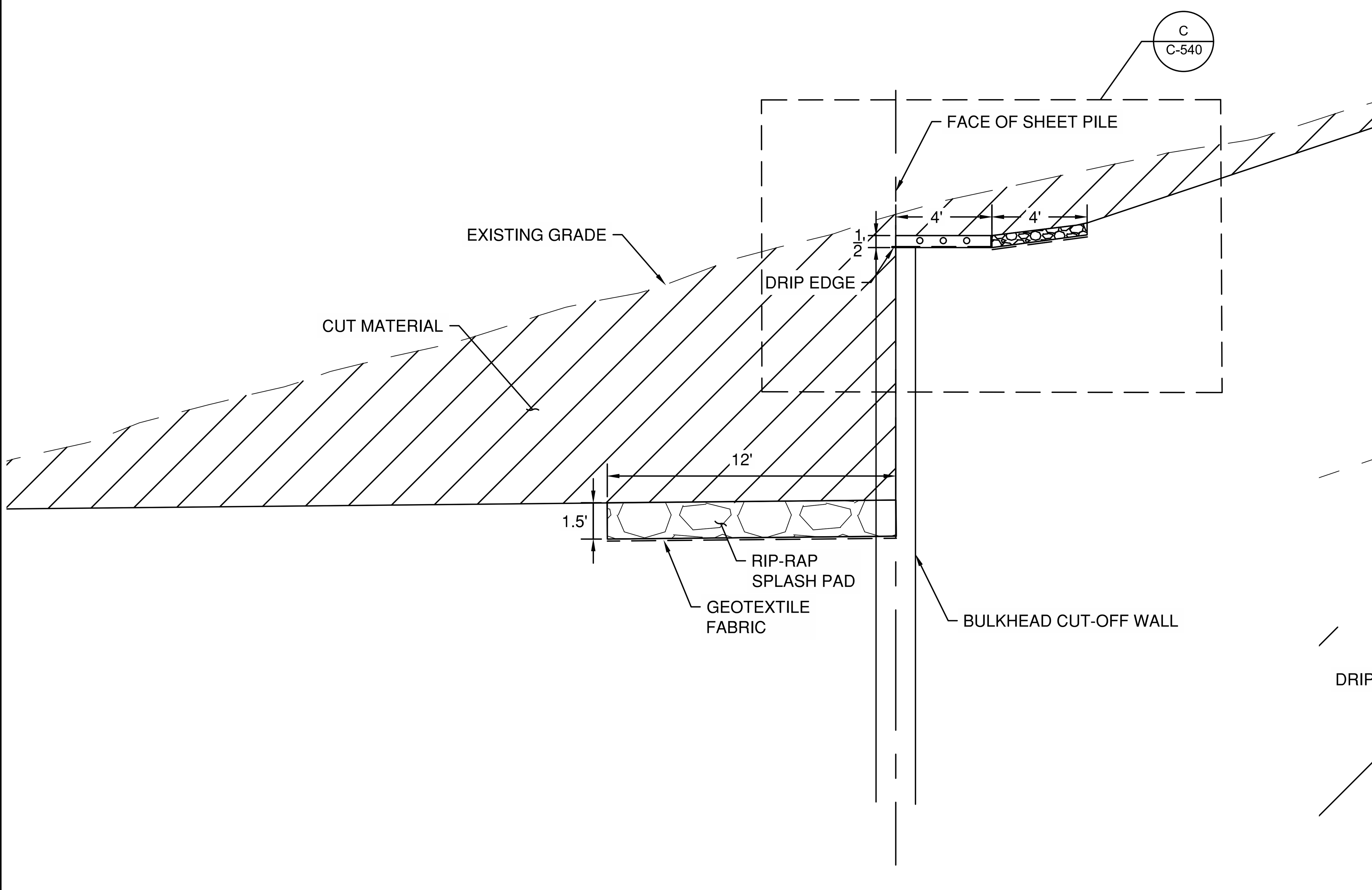
SHEET NO. C-539 REV. NO. A

95% REVIEW

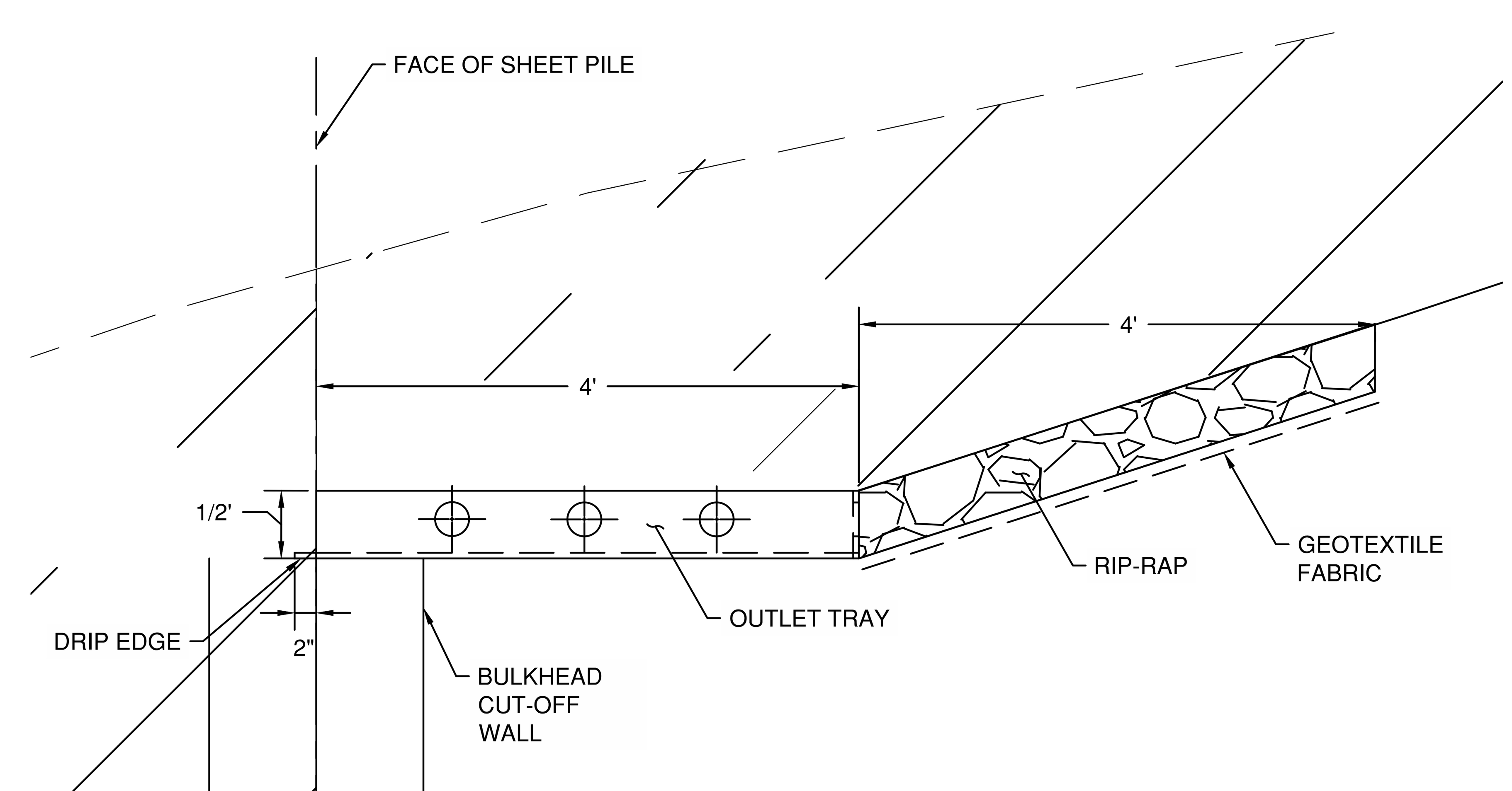
TIME: 12-08-20 – 11:47am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-539.dwg



A SECTION
SCALE: 1"=4'-0"
0 2' 4'



B SECTION
SCALE: 1"=4'-0"
0 2' 4'



C SECTION
SCALE: 1"=1'-0"
0 0.5' 1'

GENERAL NOTES

1. REFER TO CONTRACT DOCUMENTS FOR SOIL BORING LOG INFORMATION.

PORT OF HOUSTON AUTHORITY · HOUSTON, TEXAS

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

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APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

SPLASH PAD AND SPREADER

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

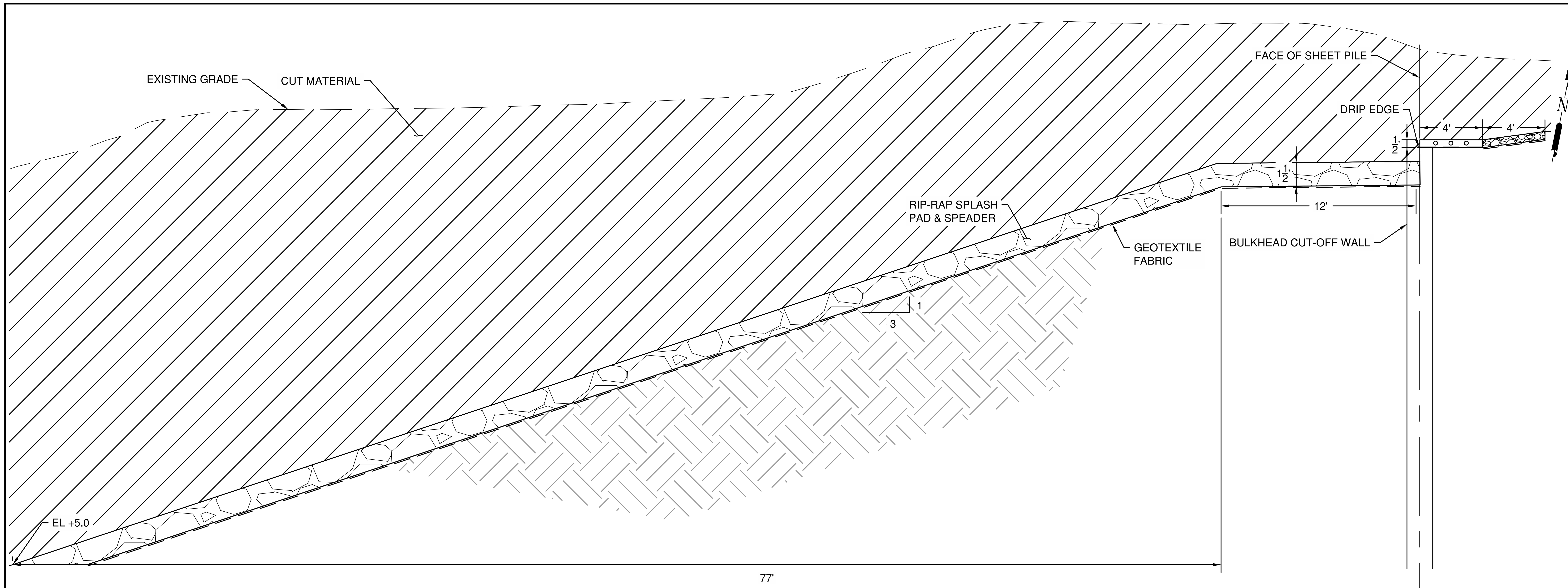
DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1"=4'

DRAWING NO.
C90-D13-P11-007

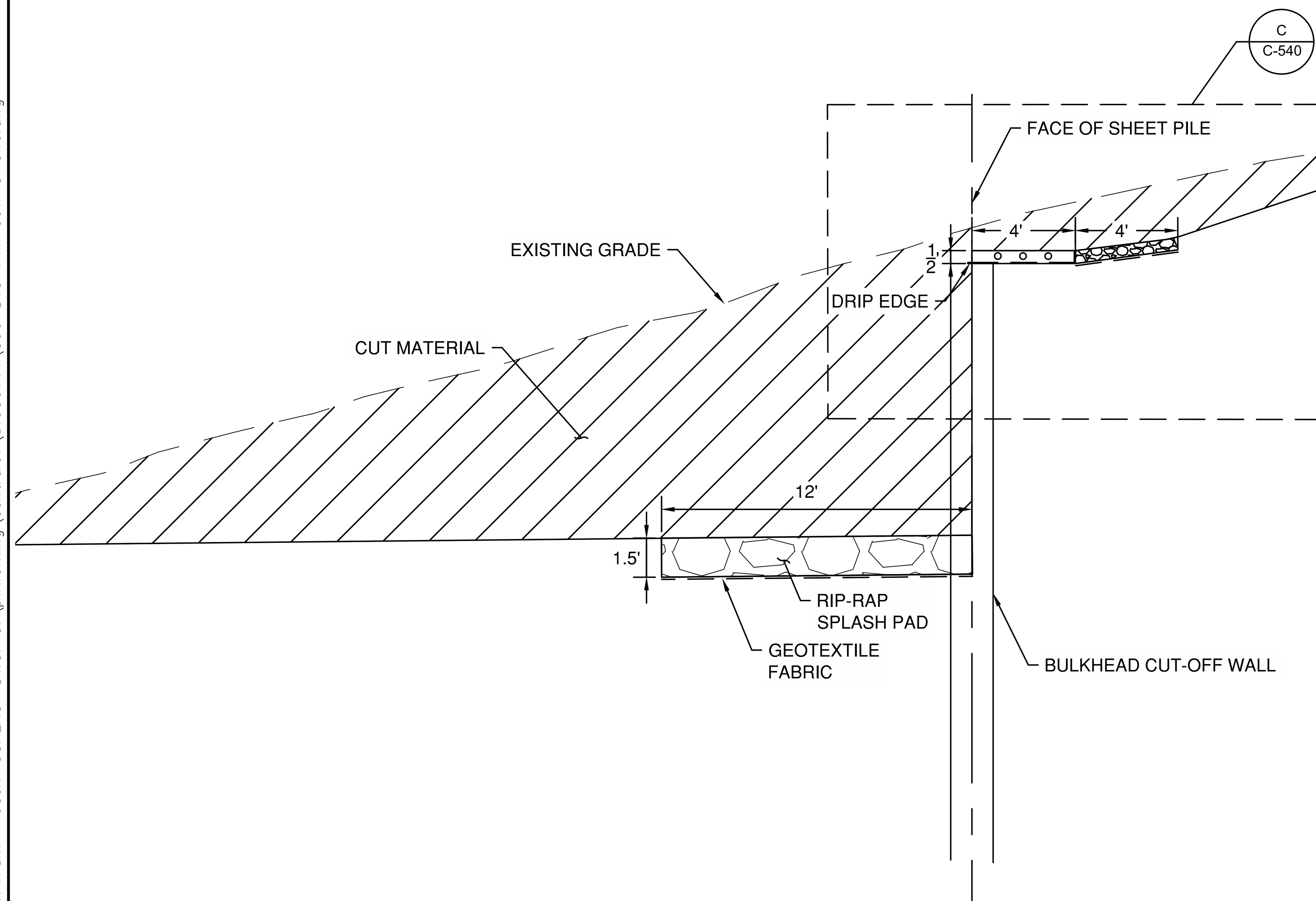
SHEET NO. C-540
REV. NO. A

95% REVIEW

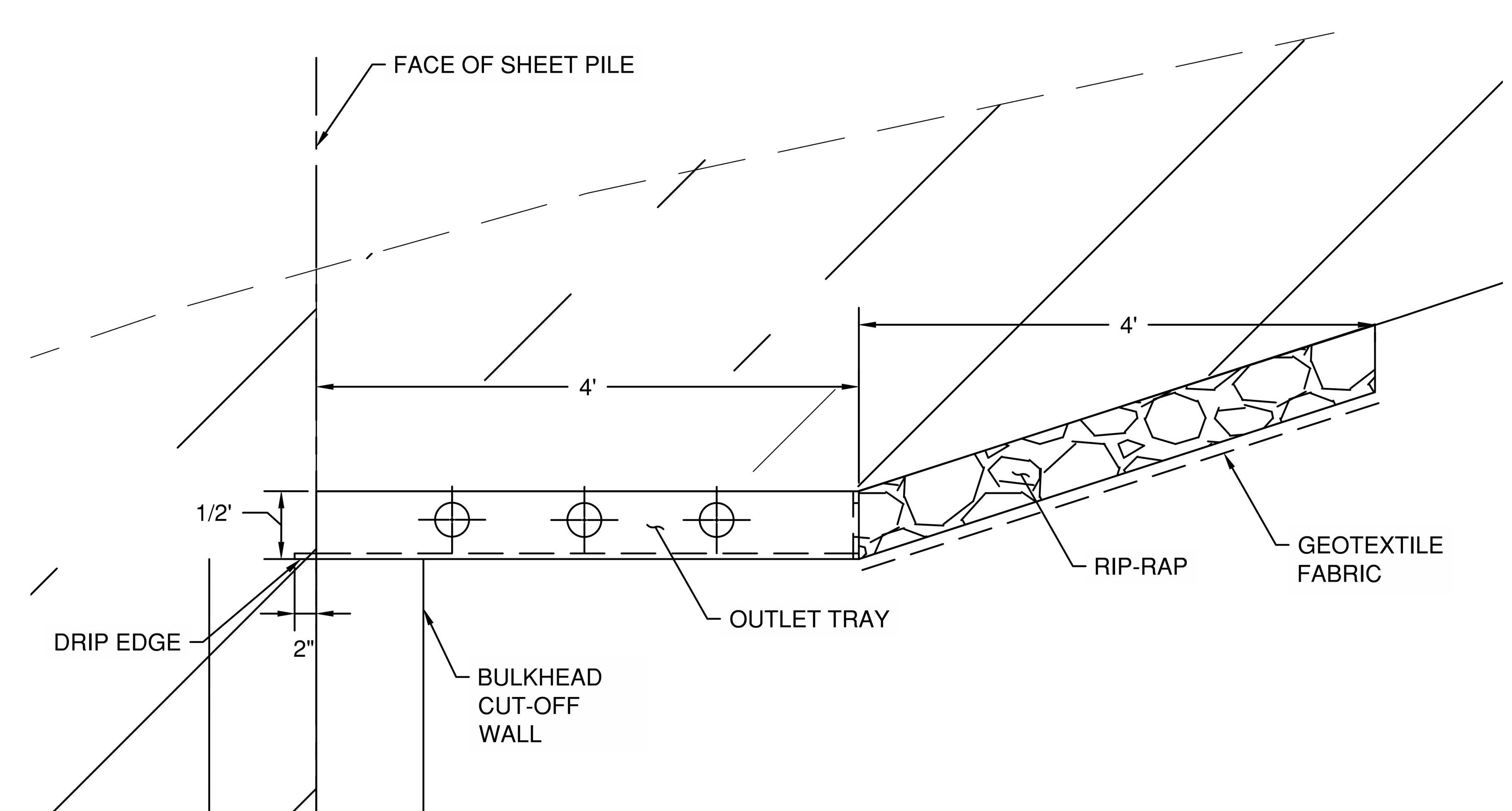
TIME: 12-08-20 – 11:47am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-540.dwg



A SECTION
SCALE: 1"=4'-0"



B SECTION
SCALE: 1"=4'-0"



C SECTION
SCALE: 1"=1'-0"

GENERAL NOTES

1. REFER TO CONTRACT DOCUMENTS FOR SOIL BORING LOG INFORMATION.

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

**PROJECT 11
PACKAGE #7
SEGMENT 3**

SHEET TITLE:

SPLASH PAD AND SPREADER

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

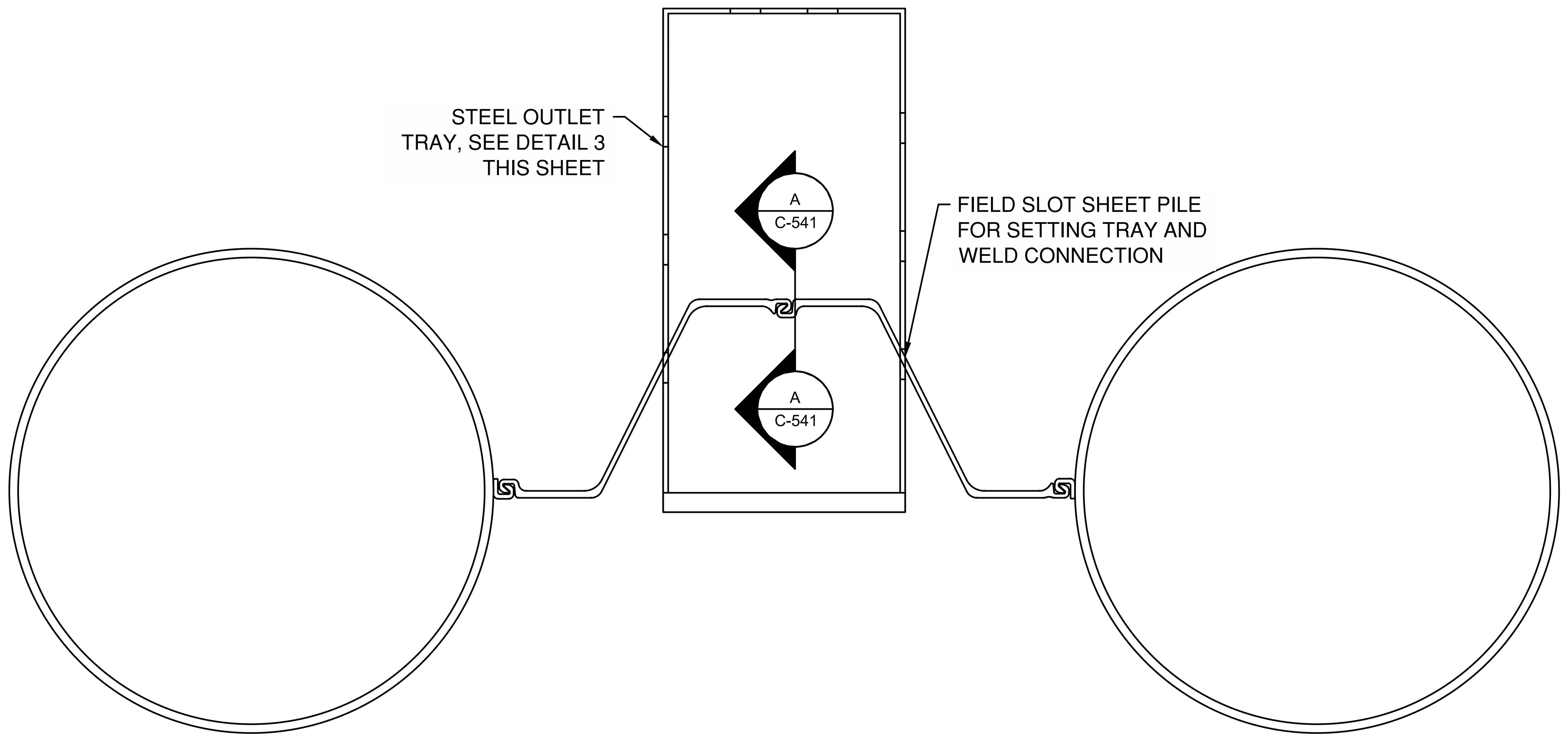
DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1"=4'

DRAWING NO. C90-D13-P11-007

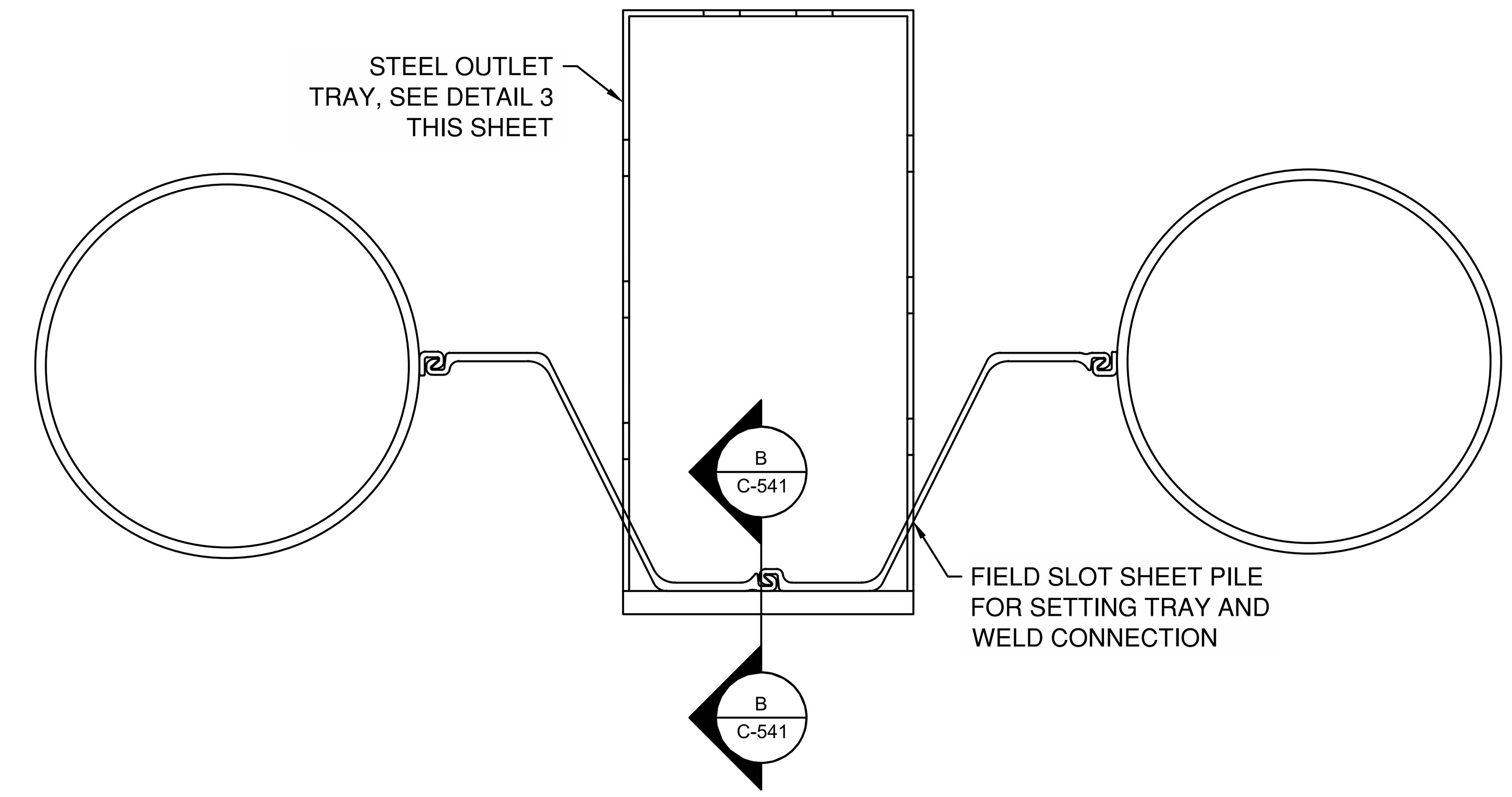
SHEET NO. C-540 | REV. NO. A

95% REVIEW

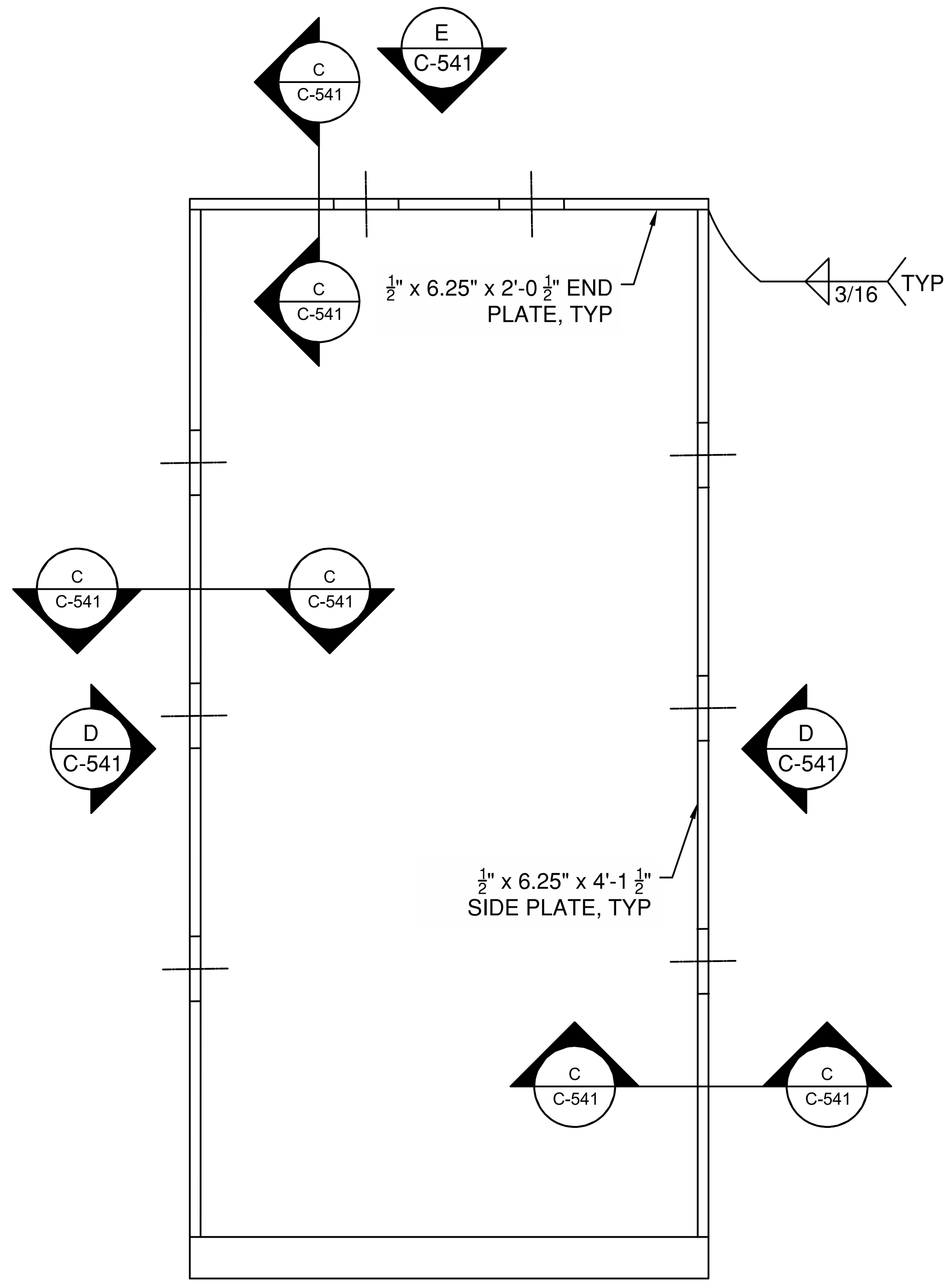
TIME: 12-08-20 – 11:47am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-540.dwg



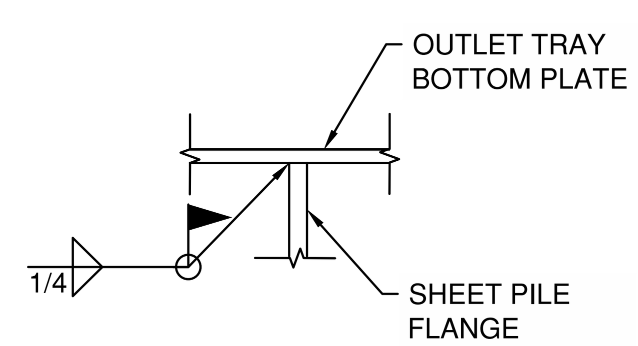
1 DETAIL
SCALE: 1"=1'-0"



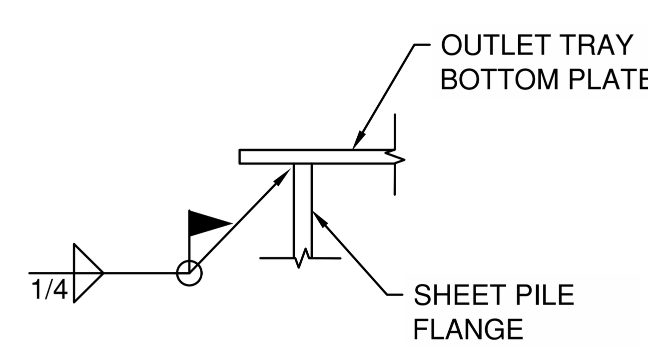
2 DETAIL
SCALE: 1"=1'-0"



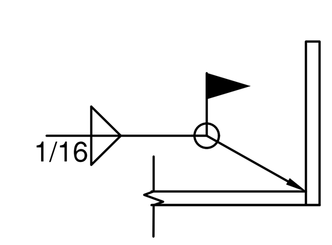
3 OUTFALL TRAY DETAIL
SCALE: 1/2"=1'-0"



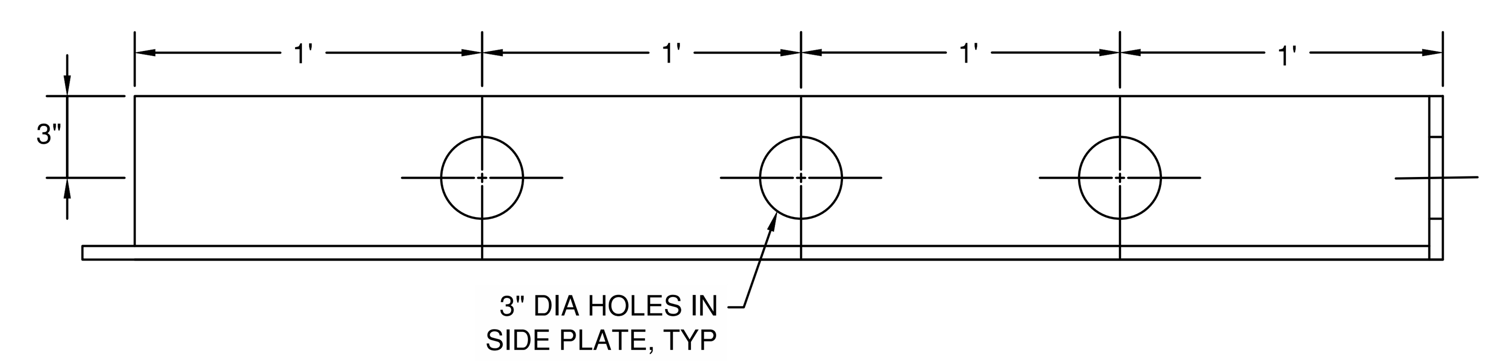
A SECTION
SCALE: 1/2"=1'-0"



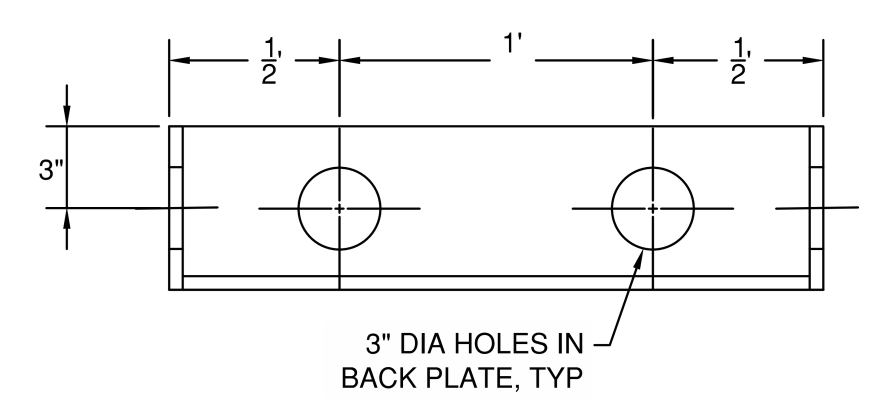
B SECTION
SCALE: 1/2"=1'-0"



C SECTION
SCALE: 1/2"=1'-0"



D ELEVATION
SCALE: 1/2"=1'-0"



E ELEVATION
SCALE: 1/2"=1'-0"

GENERAL NOTES

1. SHOP COAT STEEL AFTER FABRICATION ACCORDING TO SPECIFICATION 09 96 56.01.
2. REPAIR DAMAGED COATING ACCORDING TO PROJECT SPECIFICATIONS.

PORT OF HOUSTON AUTHORITY

CONSULTANT:
DESIGN PREPARED BY:
HDR
HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:
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95% REVIEW

APPROVED: DATE
PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:
HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)
PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:
OUTLET TRAY DETAILS

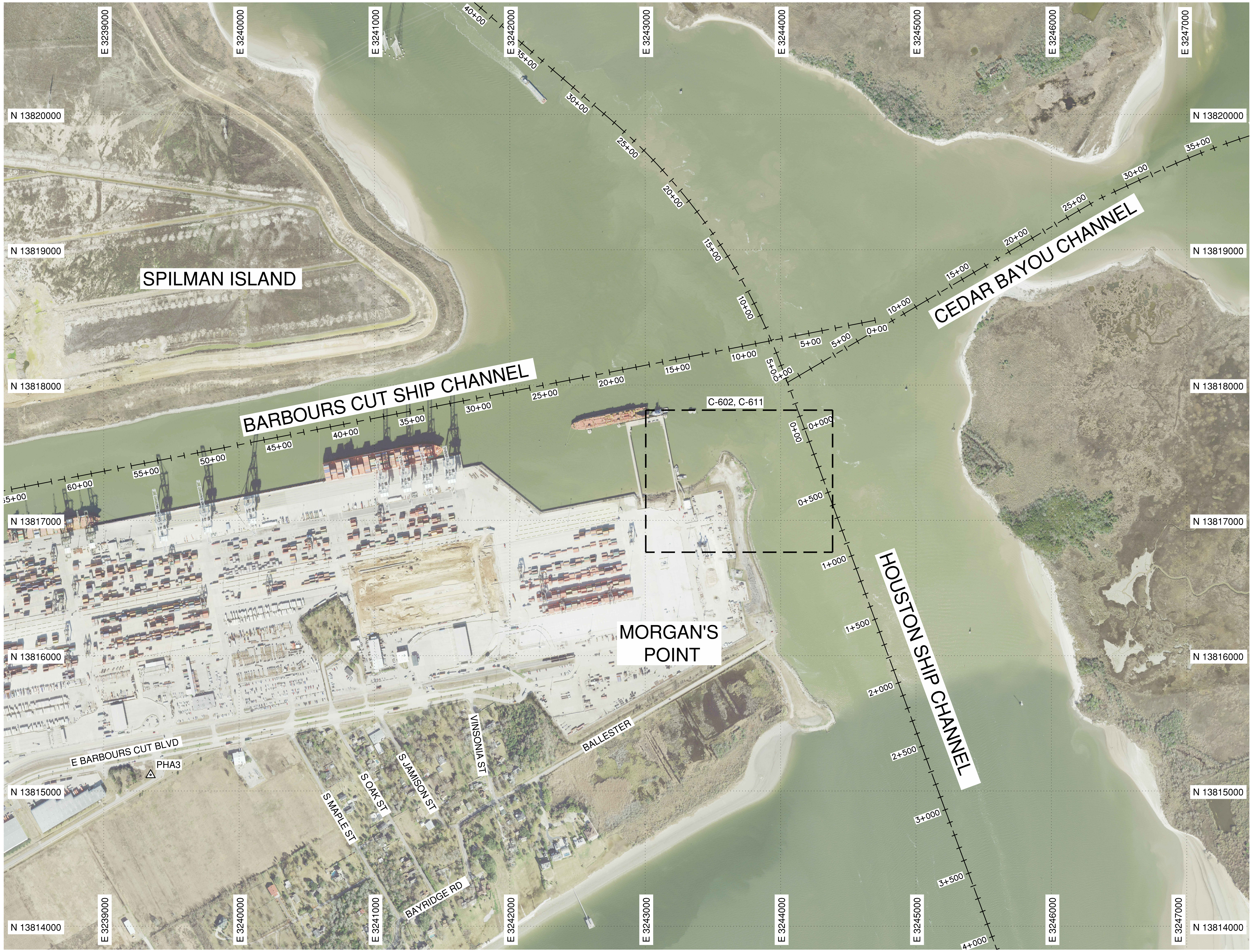
REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	#####

DRAWING NO.
C90-D13-P11-007

SHEET NO. C-541
REV. NO. A

95% REVIEW



N

GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-003.
2. CONTROL POINT: PHA3
   (5/8" REBAR WITH CAP SET 3" BELOW GRADE)
   NORTHING: 13815119.815
   EASTING: 3239346.324
   ELEVATION: 19.424' (NAVD88)

A OVERALL CIVIL SITE KEY PLAN
SCALE: 1"=400'

400 200 0 400 800

PORT OF HOUSTON AUTHORITY

CONSULTANT:
DESIGN PREPARED BY:
HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:
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95% REVIEW

APPROVED: DATE
PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:
HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)
PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:
OVERALL CIVIL SITE KEY PLAN

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

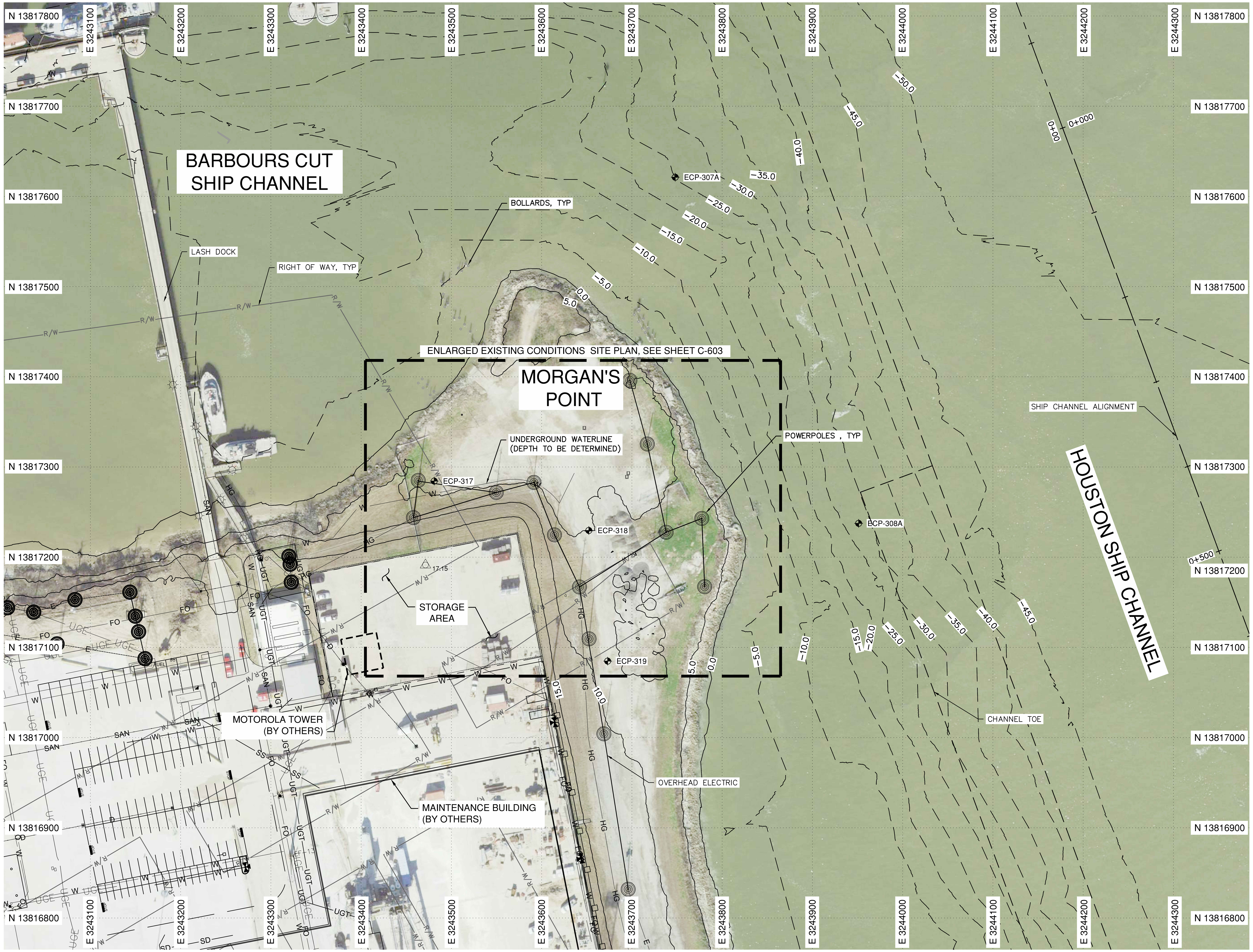
DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1"=400'

DRAWING NO.
C90-D13-P11-007

SHEET NO.	REV. NO.
C-601	A

95% REVIEW

TIME: 12-08-20 – 11:48am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-601.dwg



N

GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-003.
2. REFER TO CONTRACT DOCUMENTS FOR SOIL BORING LOG INFORMATION.

A EXISTING CONDITIONS SITE PLAN
SCALE: 1" = 60'

60 30 0 60 120

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:
HDR
HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:
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95% REVIEW

APPROVED: DATE
PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:
HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)
PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:
EXISTING CONDITIONS SITE PLAN

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 60'

DRAWING NO.
C90-D13-P11-007

SHEET NO. C-602
REV. NO. A

95% REVIEW

TIME: 12-08-20 – 11:49am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-602.dwg

GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-003.
2. REFER TO CONTRACT DOCUMENTS FOR SOIL BORING LOG INFORMATION.

A ENLARGED EXISTING CONDITIONS SITE-TOPO PLAN

SCALE: 1" = 20'

20 10 0 20 40

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY: HDR

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

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APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING
DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

ENLARGED EXISTING CONDITIONS SITE-TOPO PLAN

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 20'

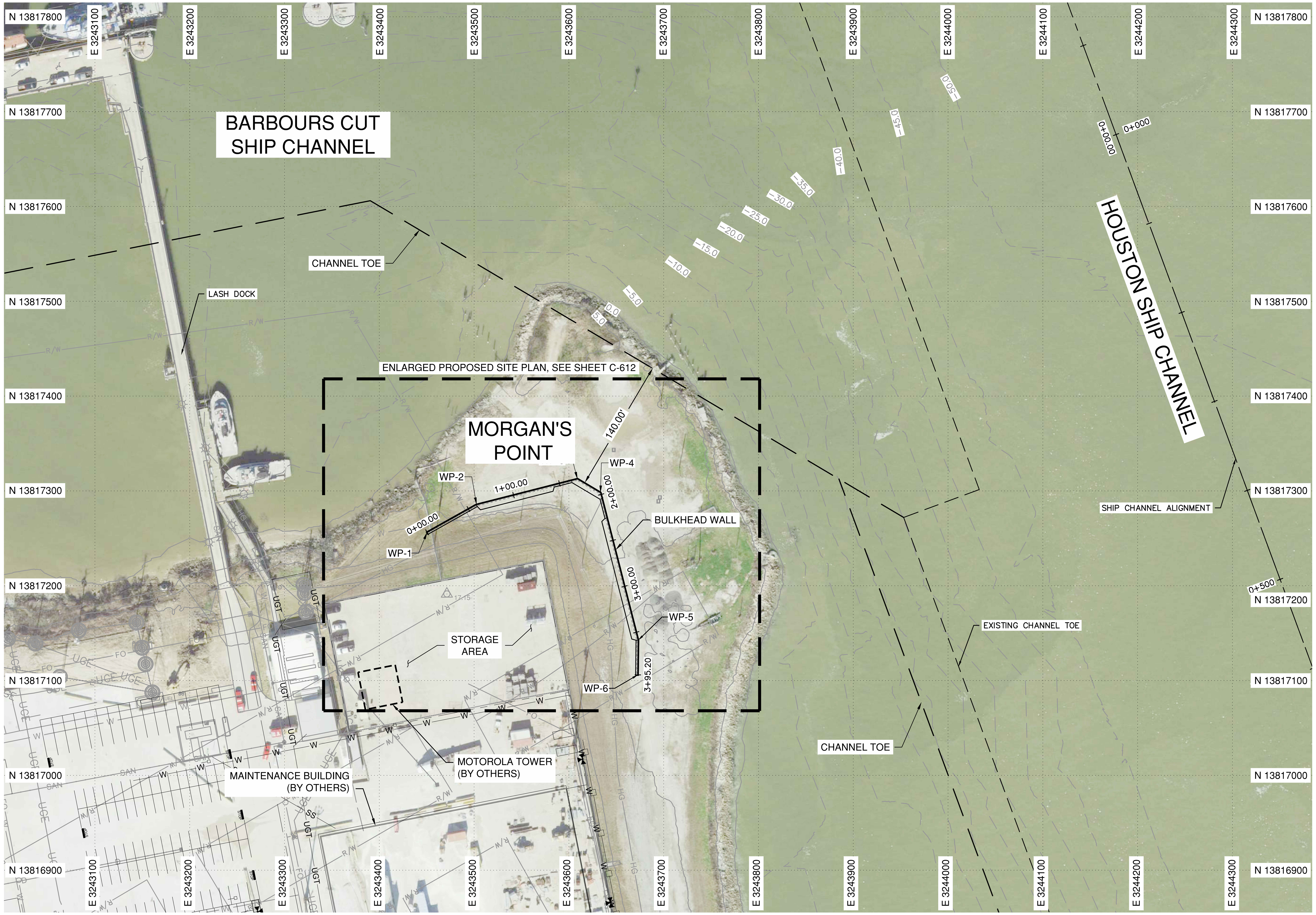
DRAWING NO. C90-D13-P11-007

SHEET NO. C-603

REV. NO. A

95% REVIEW

TIME: 12-08-20 – 11:50am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-603.dwg



STATION CONTROL LEGEND (BULKHEAD WALL STATIONING)					
WORKING POINT	NORTHING:	EASTING:	WALL STATION:	CHANNEL STATION:	OFFSET FROM CHANNEL, DIRECTION:
WP-1	13817256.49	3243450.45	0+00.00	-1+41.96	-827.03', LT.
WP-2	13817285.63	3243502.56	0+59.71	-1+32.65	-768.07', LT.
WP-3	13817312.78	3243609.05	1+69.61	-1+44.19	-658.84', LT.
WP-4	13817298.28	3243633.49	1+98.03	-1+66.15	-641.02', LT.
WP-5	13817142.66	3243673.17	3+21.72	-2+89.13	-657.48', LT.
WP-6	13817106.09	3243672.73	3+95.20	-3+60.00	-670.45', LT.

A PROPOSED CIVIL SITE PLAN
SCALE: 1" = 60'

60 30 0 60 120

GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEETS G-003 THROUGH G-005.
2. FOR BULKHEAD WALL DESIGN CRITERIA SEE SHEET G-010.
3. CONTRACTOR SHALL VERIFY THE LOCATION OF THE FUTURE MAINTENANCE BUILDING AND MOTOROLA TOWER PRIOR TO CONSTRUCTION OF BULKHEAD WALL.

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:
HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:

PROPOSED CIVIL SITE PLAN

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 60'

DRAWING NO. C90-D13-P11-007

SHEET NO. C-611 | REV. NO. A

95% REVIEW

TIME: 12-08-20 – 11:51am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-611.dwg

(A) ENLARGED PROPOSED CIVIL SITE PLAN

SCALE: 1" = 20'

20 10 0 20 40

GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEETS G-003 THROUGH G-005.
2. FOR BULKHEAD WALL DESIGN CRITERIA SEE SHEET G-010
3. REFER TO SHEET C-611 FOR WORKING POINT STATION CONTROL LEGEND.
4. CONTRACTOR SHALL VERIFY THE LOCATION OF THE FUTURE MAINTENANCE BUILDING AND MOTOROLA TOWER PRIOR TO CONSTRUCTION OF BULKHEAD WALL.

PORT OF HOUSTON AUTHORITY · HOUSTON, TEXAS

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: ______ DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:

ENLARGED PROPOSED CIVIL SITE PLAN

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	D. BROYLES
CADD:	J. THORPE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 20'

DRAWING NO.
C90-D13-P11-007

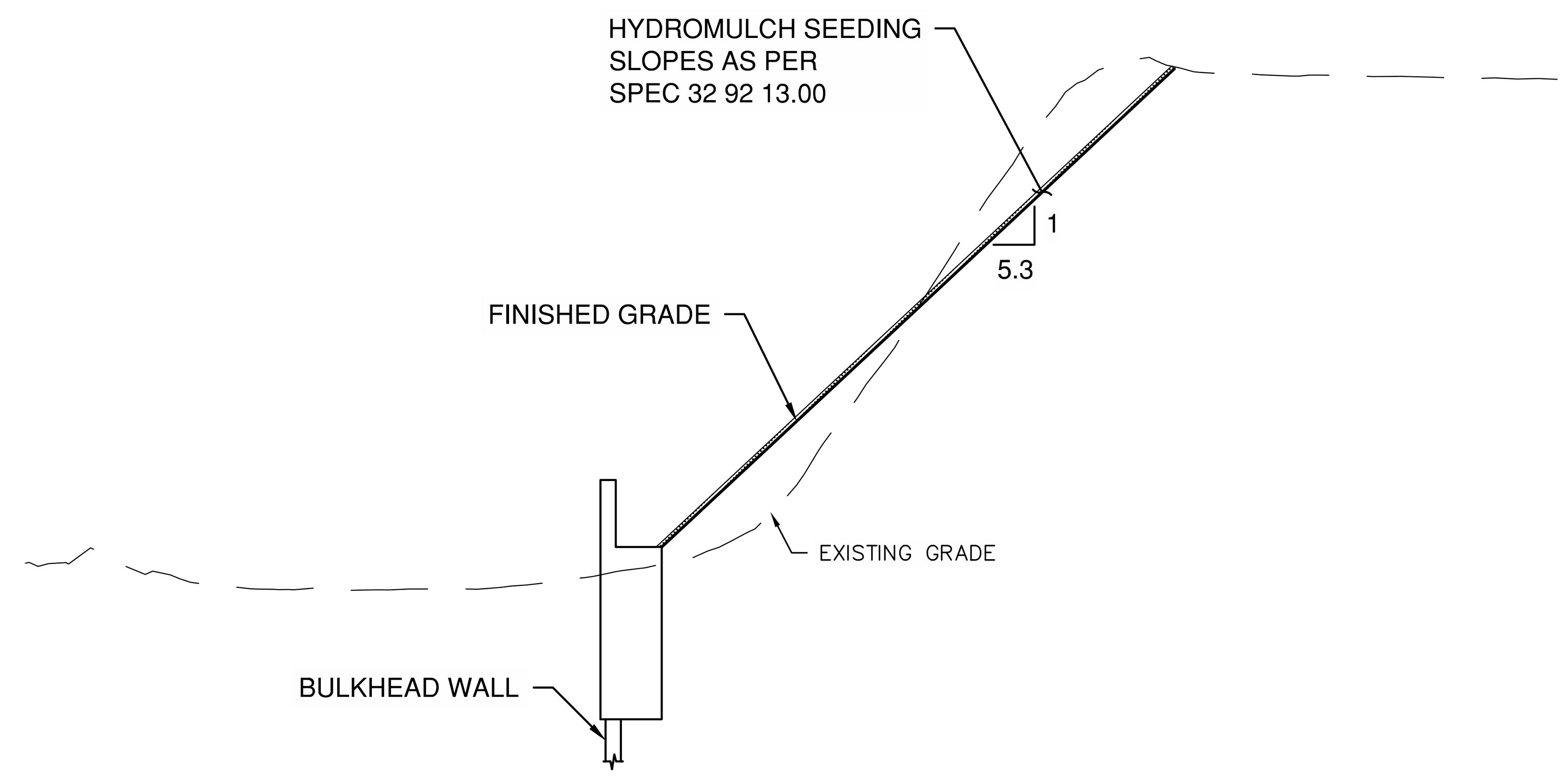
SHEET NO.	REV. NO.
C-612	A

95% REVIEW

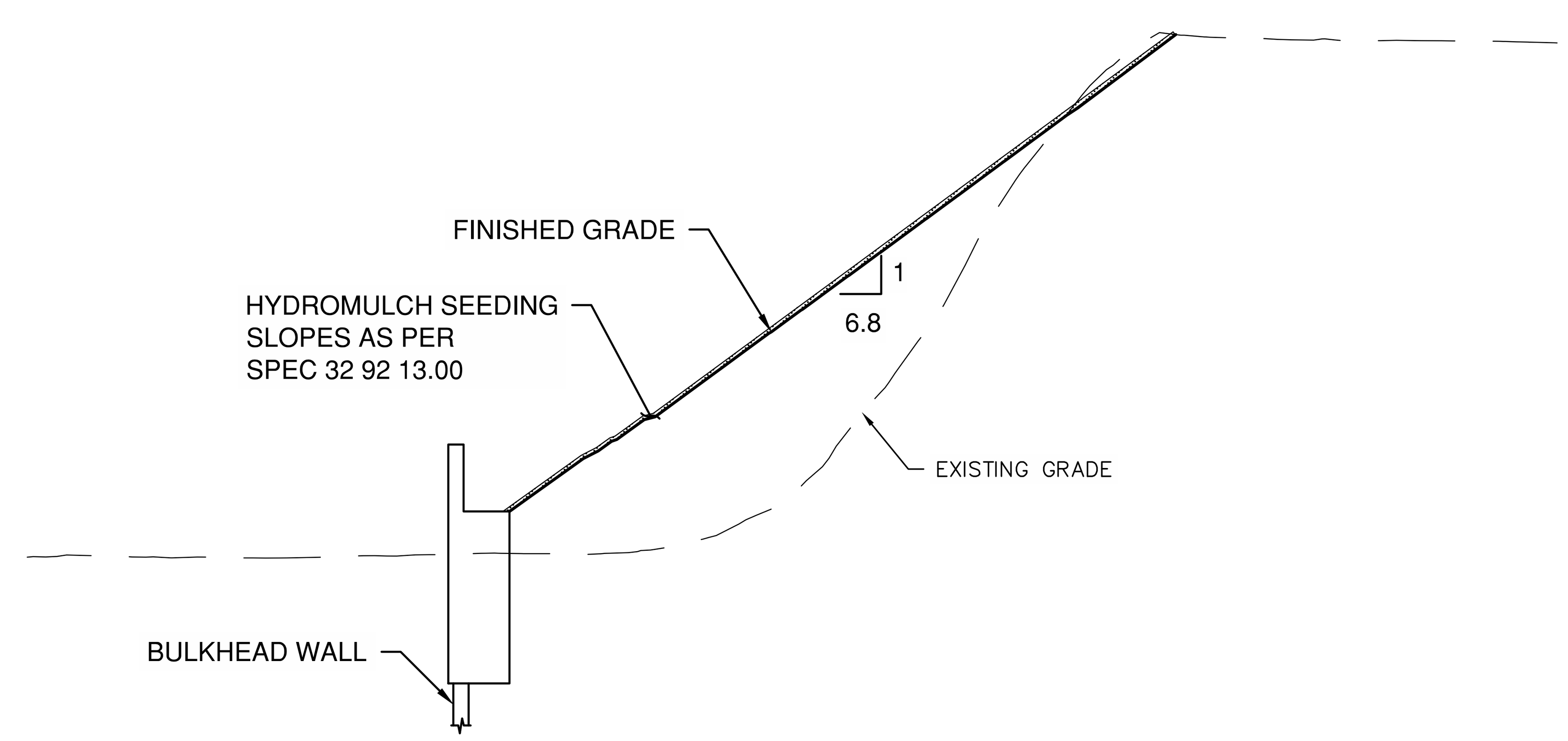
TIME: 12-08-20 – 1:54pm User: CTREVINO DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-612.dwg

GENERAL NOTES

1. COMPACTED CH, CL, SC "IMPERVIOUS FILL" PER EMBANKMENT CONSTRUCTION SPECIFICATION 31 24 00 2.02C. BERM WILL BE OVERBUILT IN ORDER TO ACHIEVE DESIGN GRADE AFTER SETTLEMENT AND CONSOLIDATION.
2. SUITABLE MATERIAL PER EMBANKMENT CONSTRUCTION SPECIFICATION 31 24 00 2.02C.



B TYPICAL SECTION
SCALE: 1" = 20'



C TYPICAL SECTION
SCALE: 1" = 20'

20 10 0 20 40

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:
HDR
HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11
PACKAGE #7
SEGMENT 3

SHEET TITLE:

MORGAN'S POINT TYPICAL SECTIONS

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

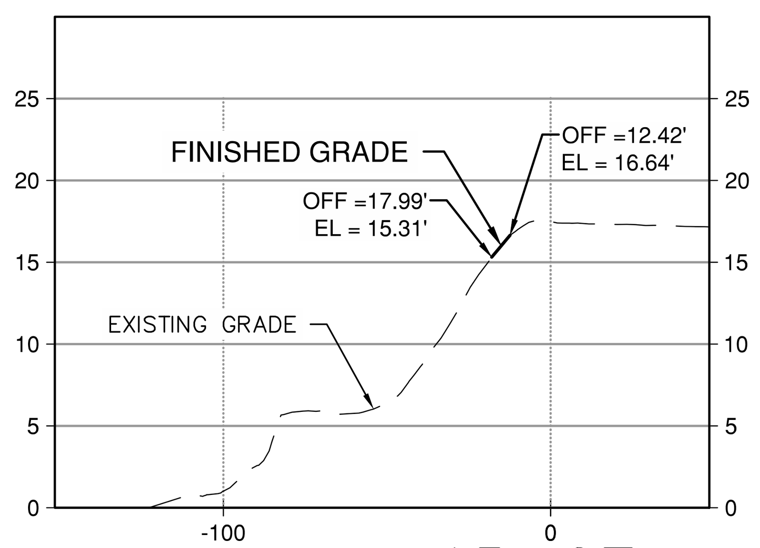
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	1" = 20'

DRAWING NO.
C90-D13-P11-007

SHEET NO. C-613
REV. NO. A

95% REVIEW

TIME: 12-08-20 – 11:52am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-613.dwg



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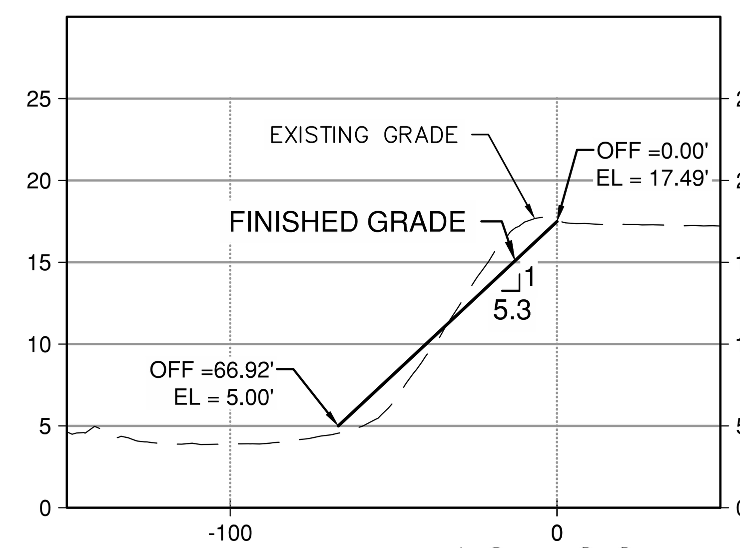

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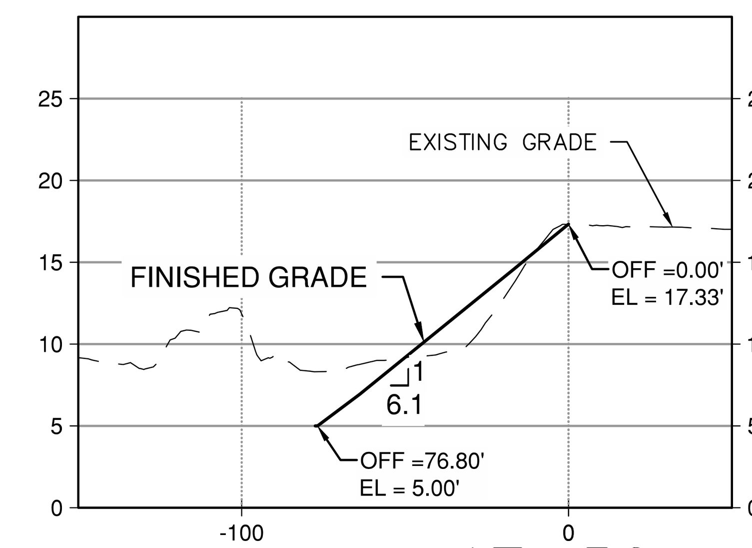

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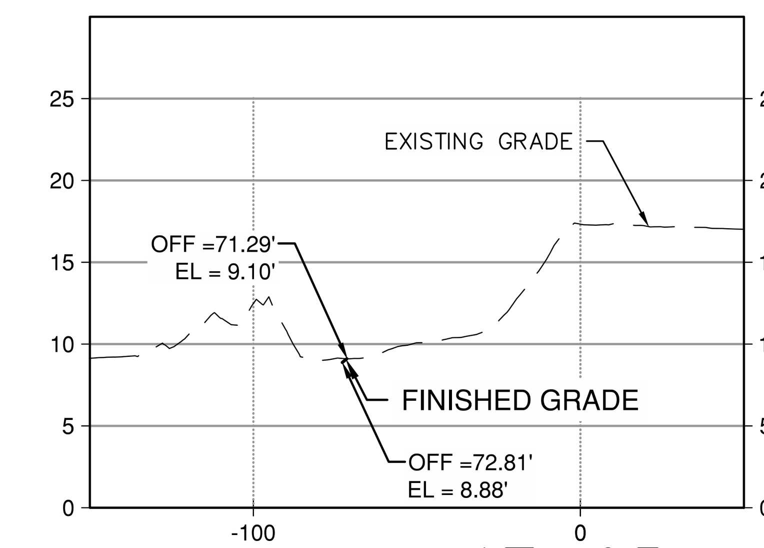

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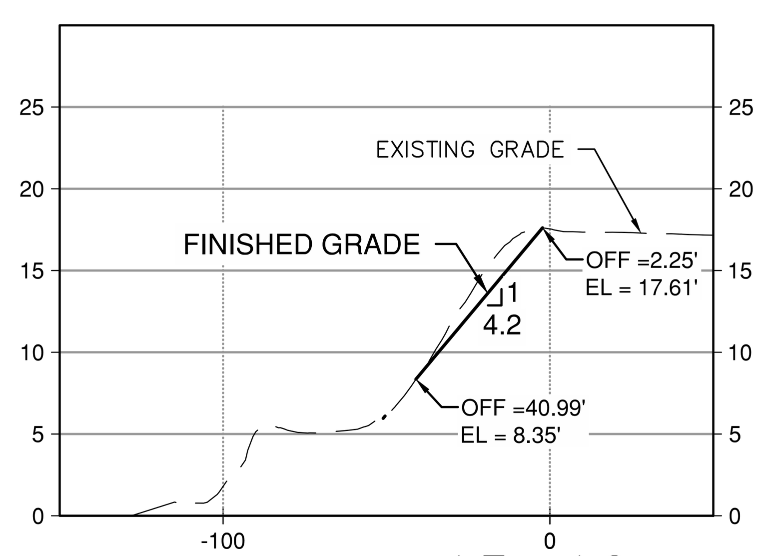

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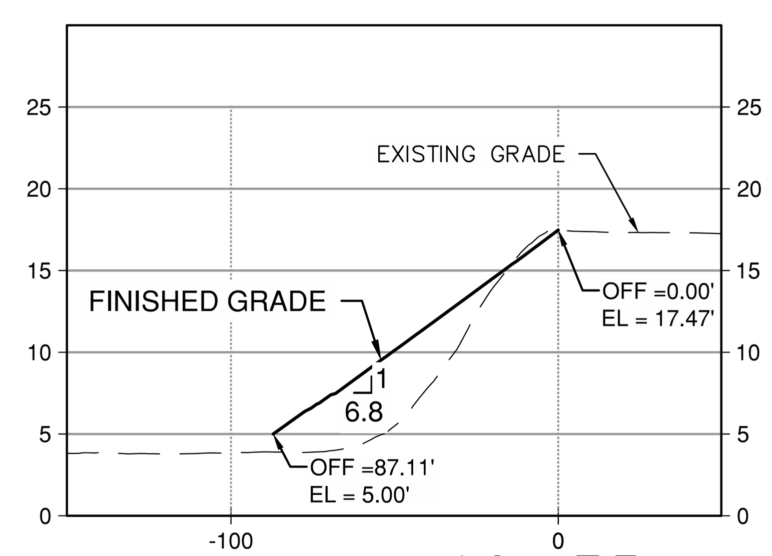

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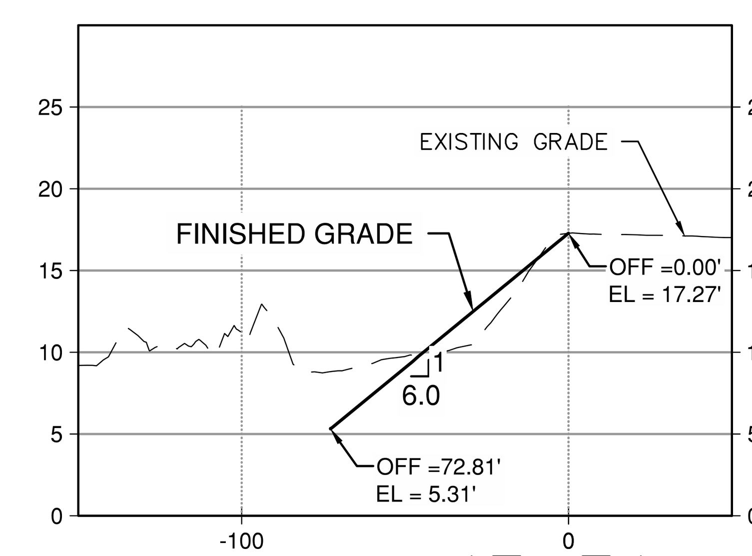

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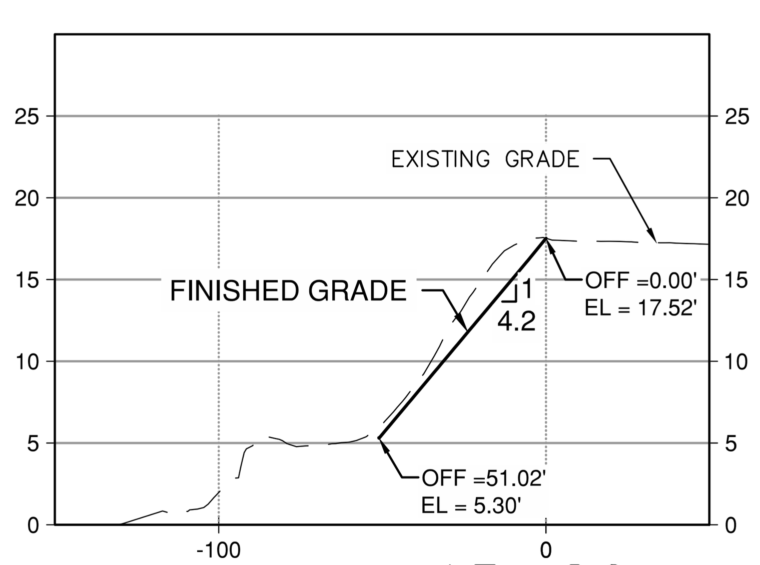

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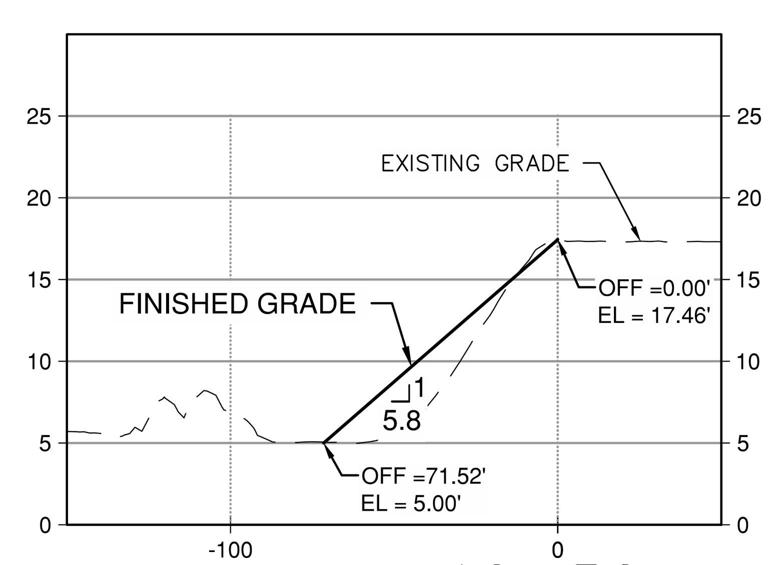

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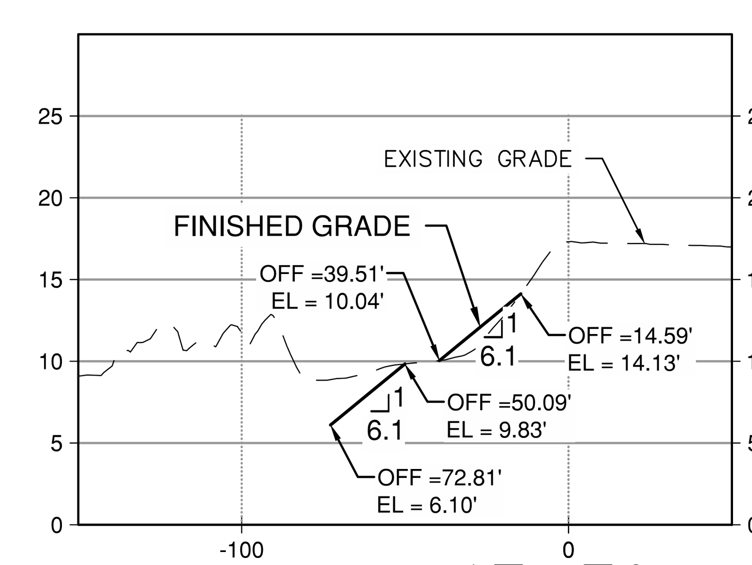

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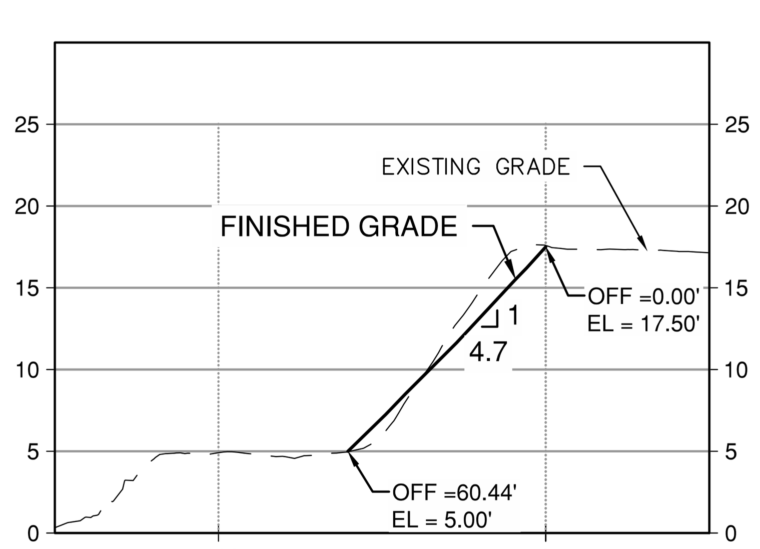

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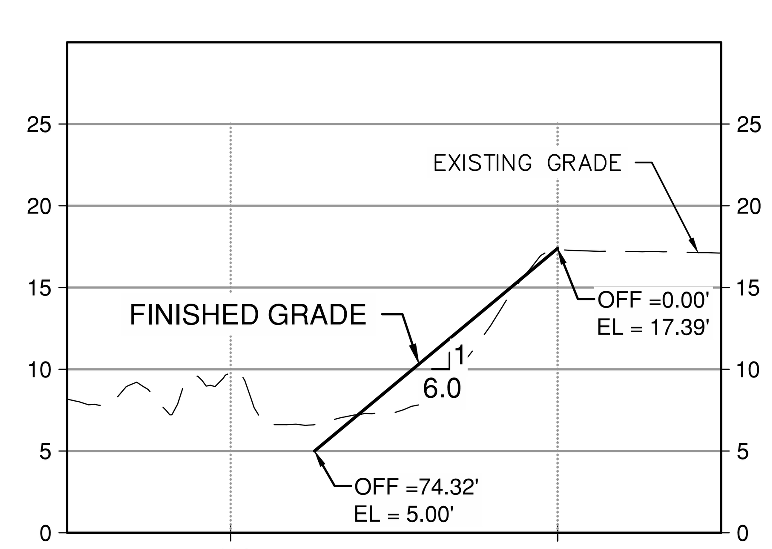

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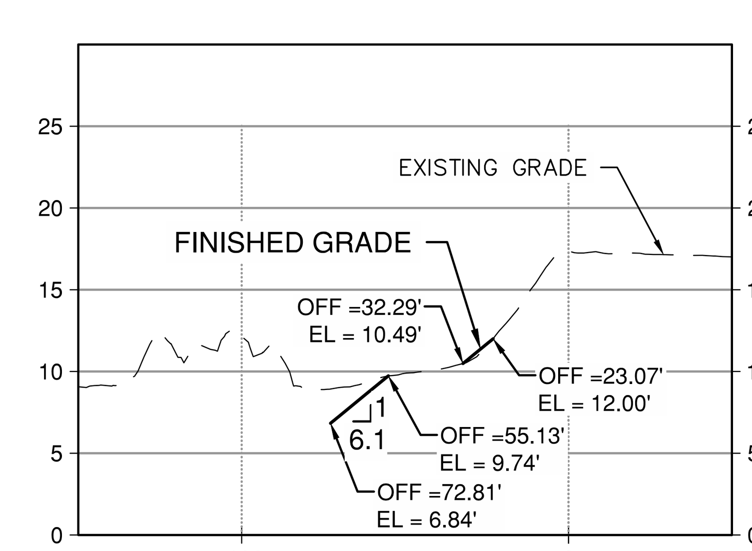

17+83

GENERAL NOTES

1. ALL ELEVATIONS SHOWN IN FEET TO MEAN LOWER LOW WATER (MLLW).
2. CROSS SECTIONS CUT FACING UP STATION.
3. PROPOSED CROSS-SECTIONS ON THIS SHEET SHOWN BEHIND(SOUTH WEST) OF THE BULKHEAD CUT OFF WALL REFLECT FINAL GRADING.

GRAPHIC SCALES

HORIZONTAL 1"=50'

50 25 0 50 100

VERTICAL 1"=10'

10 5 0 10 20

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

SEAL:

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95% REVIEW

APPROVED: DATE

PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11 PACKAGE #7 SEGMENT 3

SHEET TITLE:

EARTHWORK CROSS SECTIONS (1 OF 1)

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

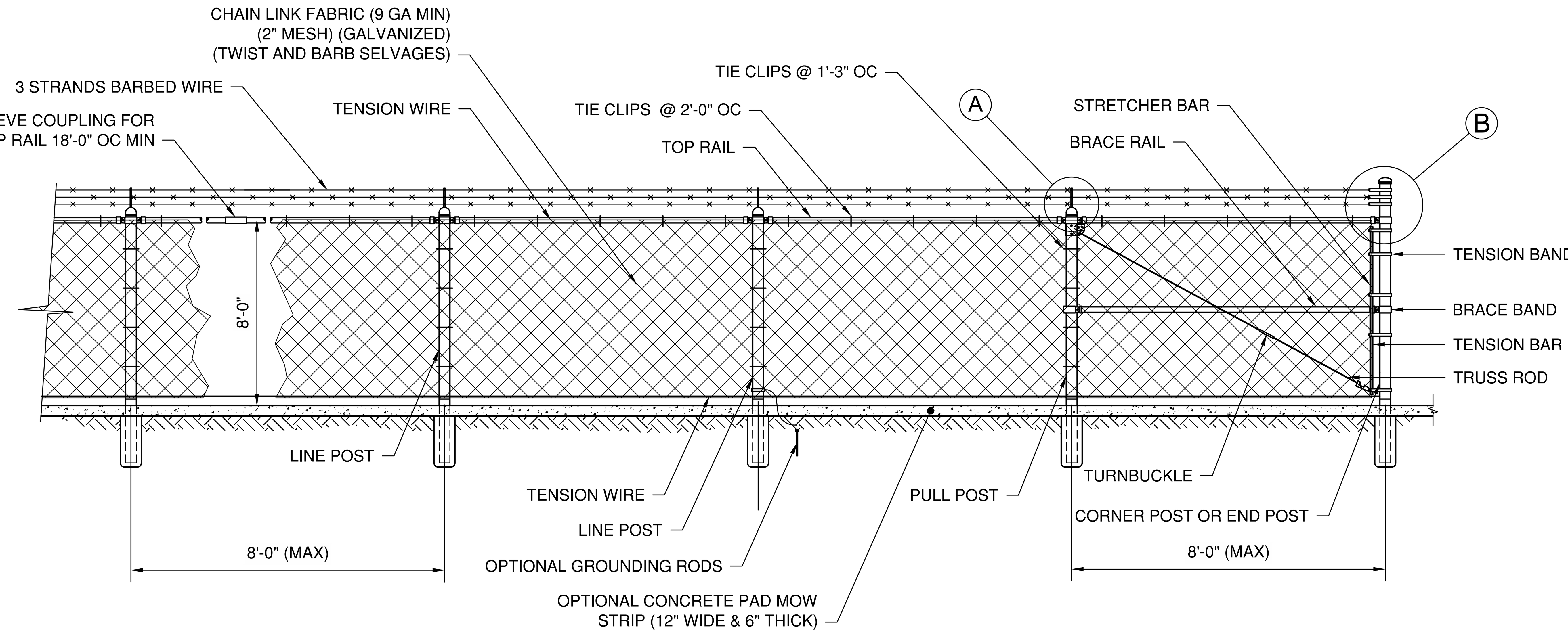
DESIGNER:	S. SALDIVAR
CADD:	F. BRISENO
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-007

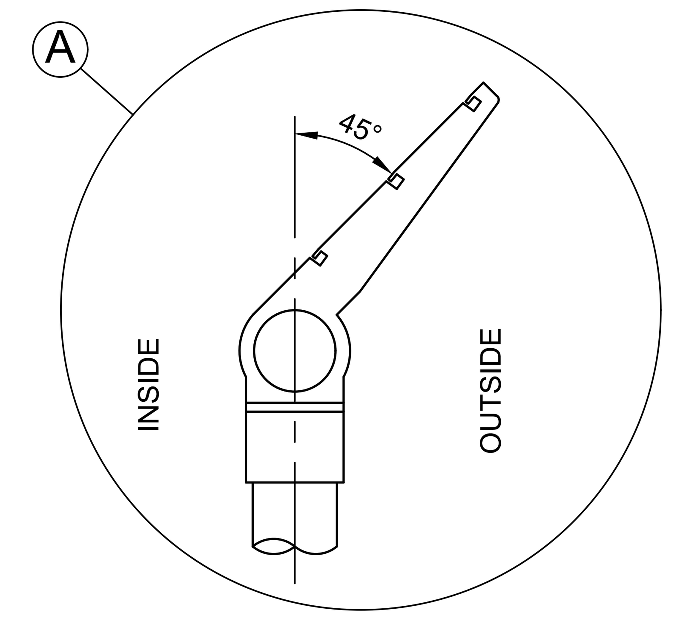
SHEET NO. C-614 | REV. NO. A

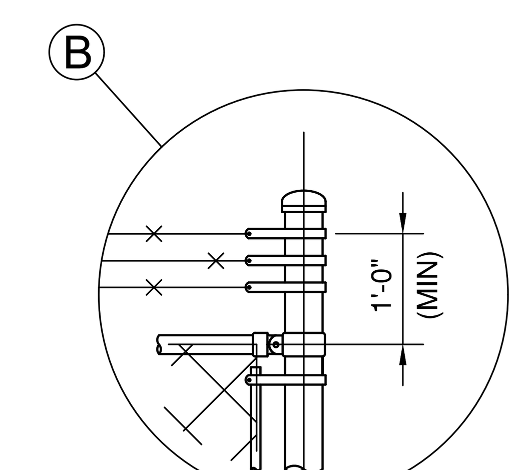
95% REVIEW

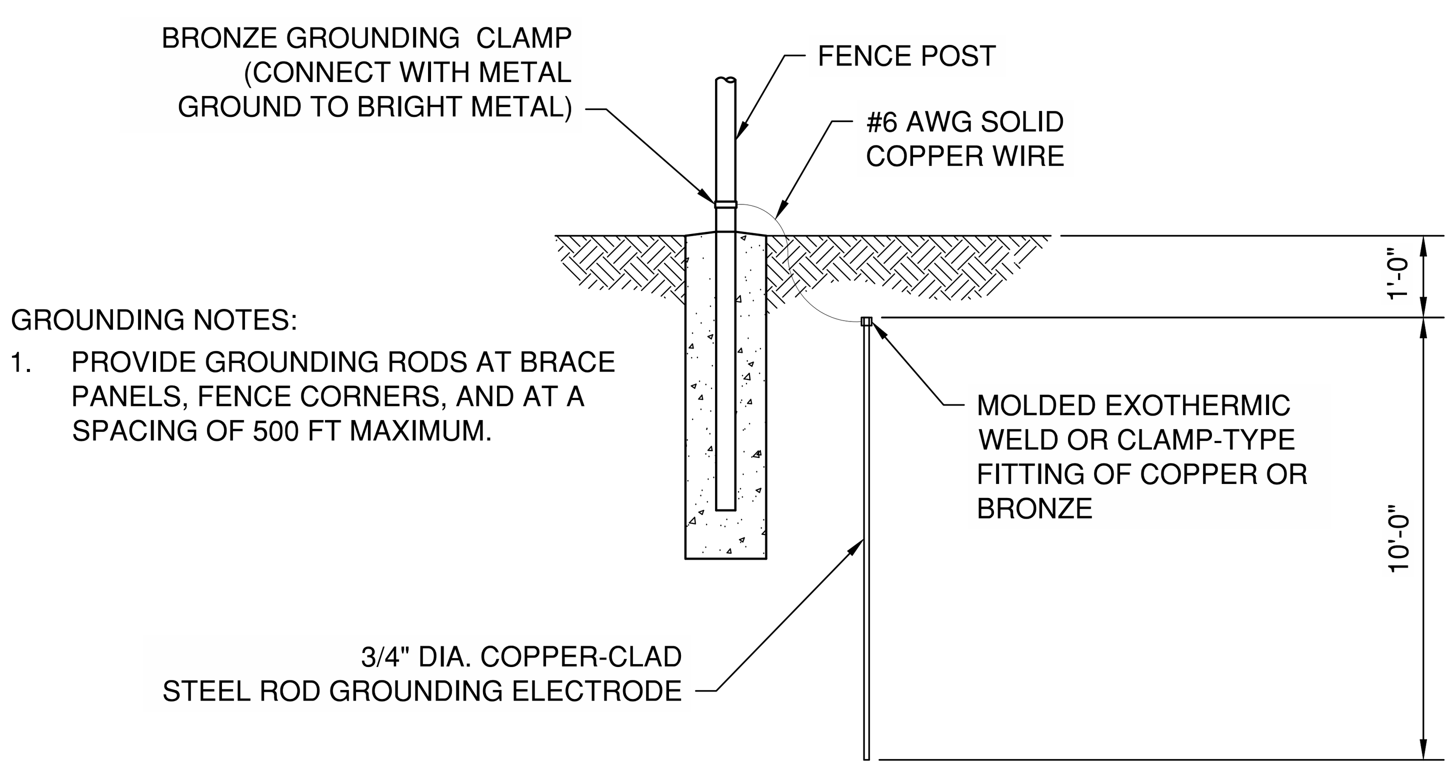
TIME: 12-08-20 – 11:52am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-614.dwg



1 CHAINLINK FENCE DETAIL
SCALE: NTS



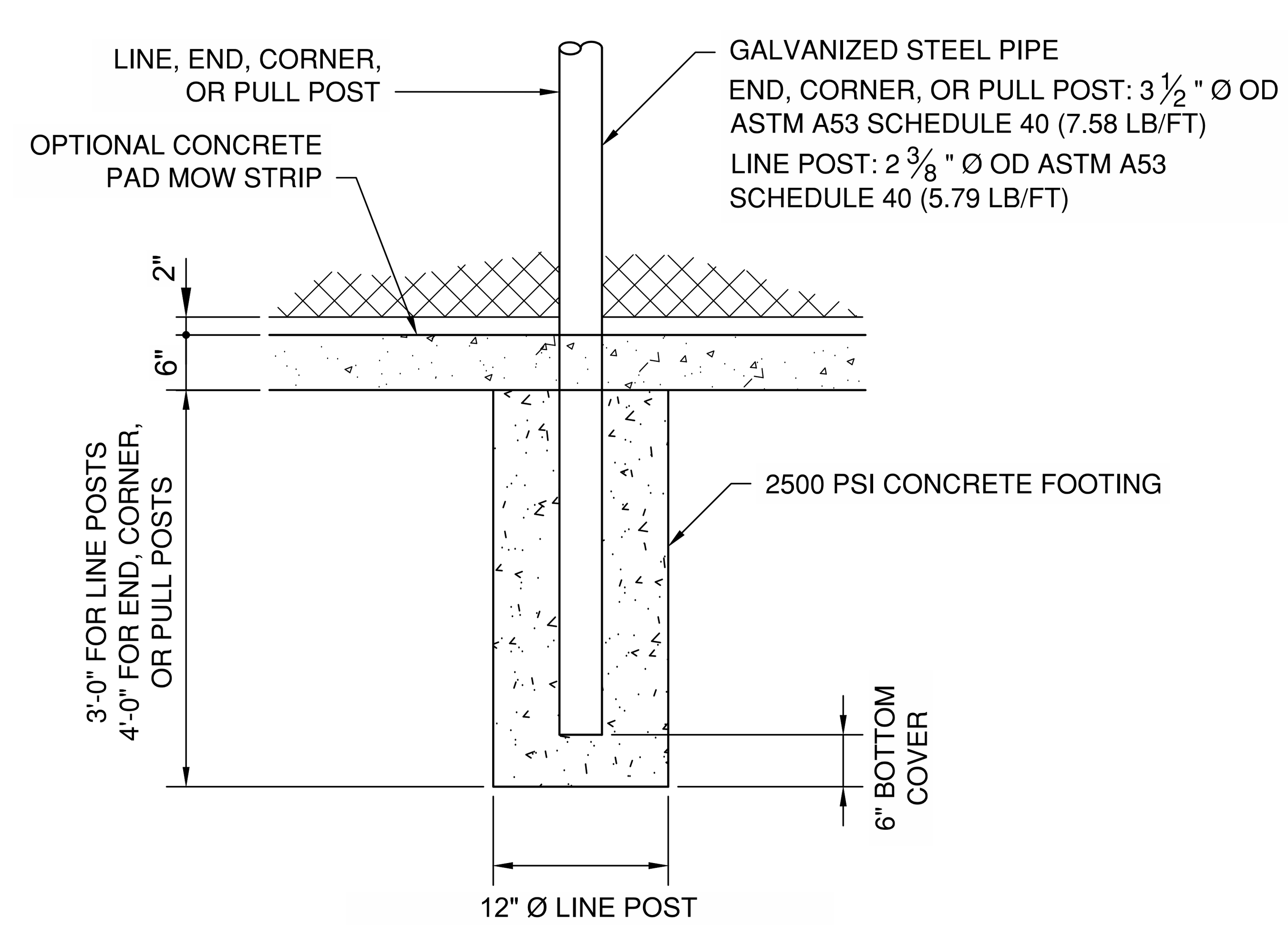




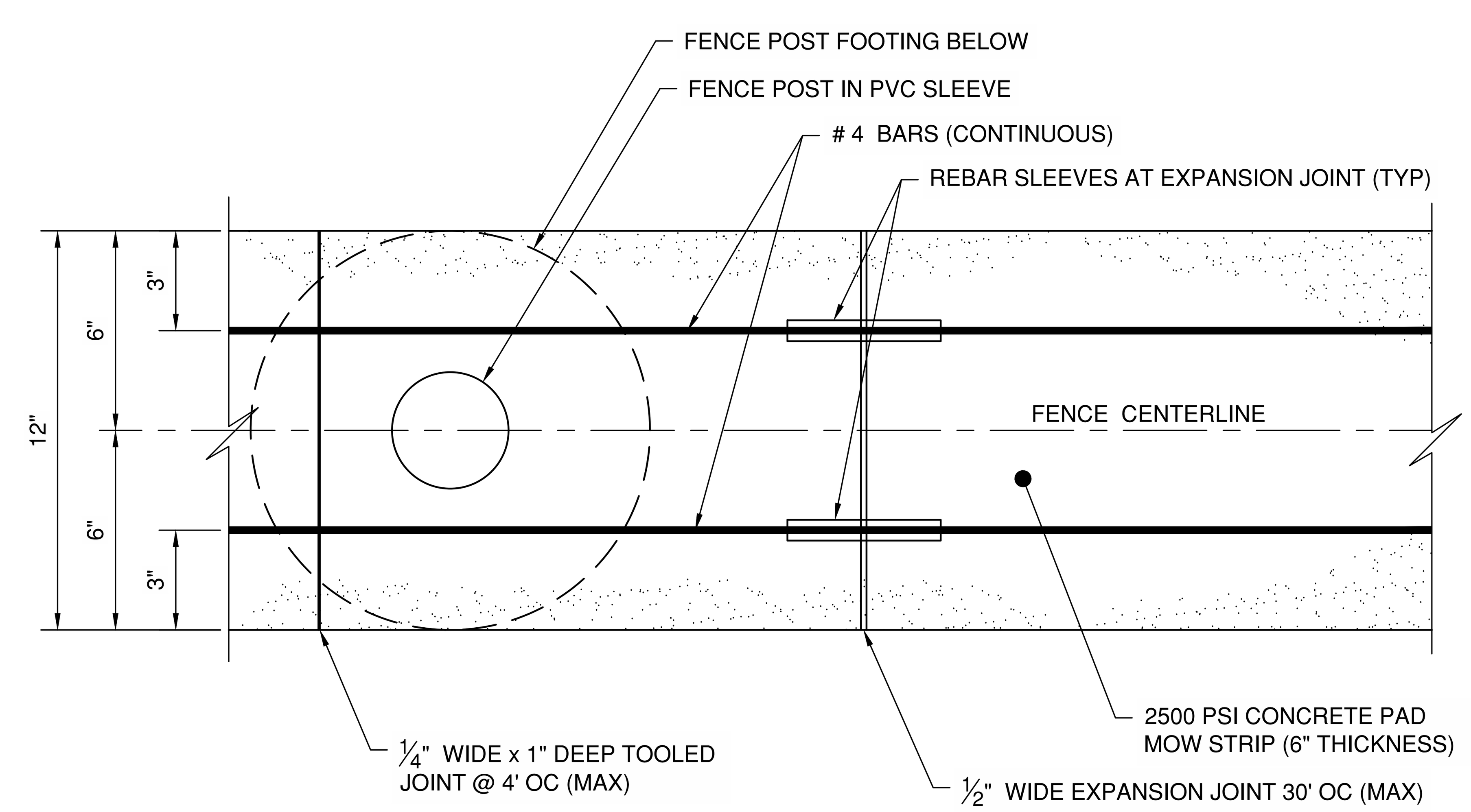
GROUNDING NOTES:

1. PROVIDE GROUNDING RODS AT BRACE PANELS, FENCE CORNERS, AND AT A SPACING OF 500 FT MAXIMUM.

2 OPTIONAL FENCE GROUND
SCALE: NTS



3 FENCE POST FOOTING DETAIL
SCALE: NTS



4 OPTIONAL CONCRETE MOW STRIP
SCALE: NTS

GENERAL NOTES

1. SEE SPECIFICATION 32 31 13.00 MOD "FENCES AND GATES" FOR ADDITIONAL DETAILS.

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

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PORT CONTRACT REPRESENTATIVE
MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC) EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

**PROJECT 11
PACKAGE #7
SEGMENT 3**

SHEET TITLE:

CHAINLINK FENCE DETAILS

REV	DATE	DESCRIPTION
A	08/14/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	J. SAUVE
CADD:	J. SAUVE
CHECKER:	S. McCOY
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO.
C90-D13-P11-007

SHEET NO. C-615
REV. NO. A

95% REVIEW

TIME: 12-08-20 – 11:52am User: OSALAS DWG: C:\pwworking\central01\d1950144\C90-D13-P11-007-C-615.dwg