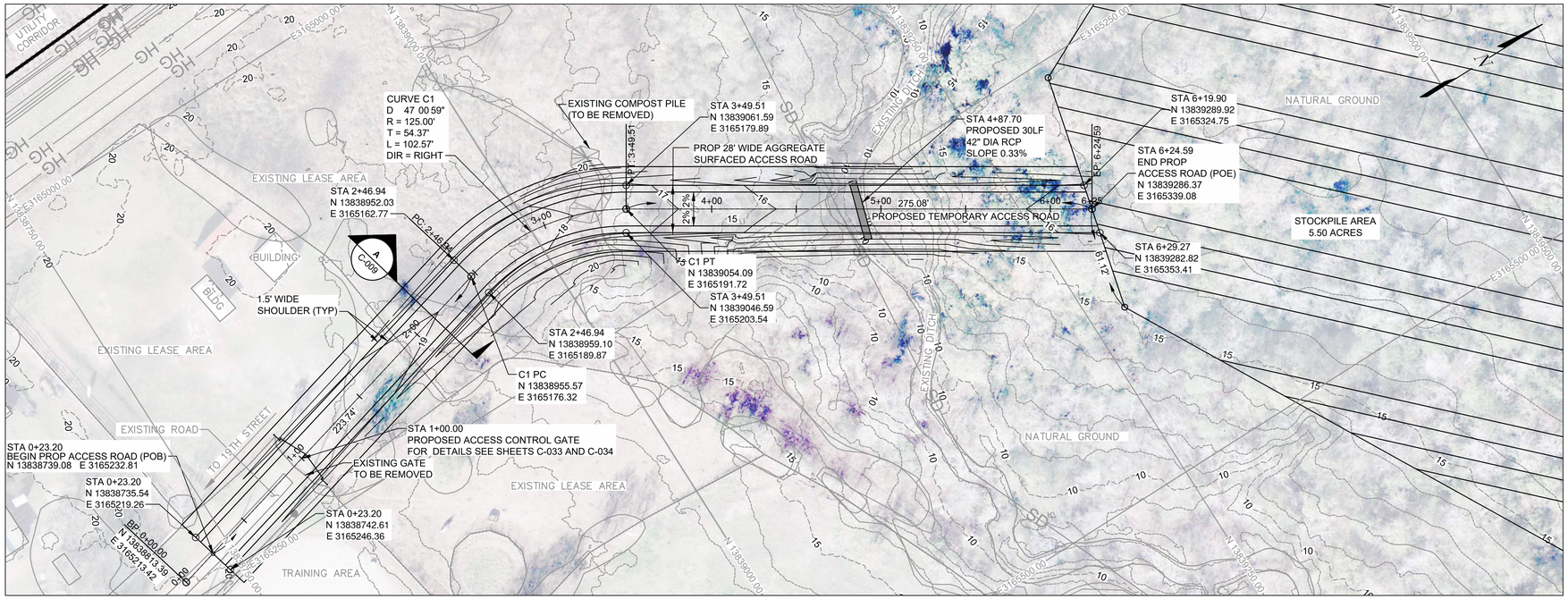
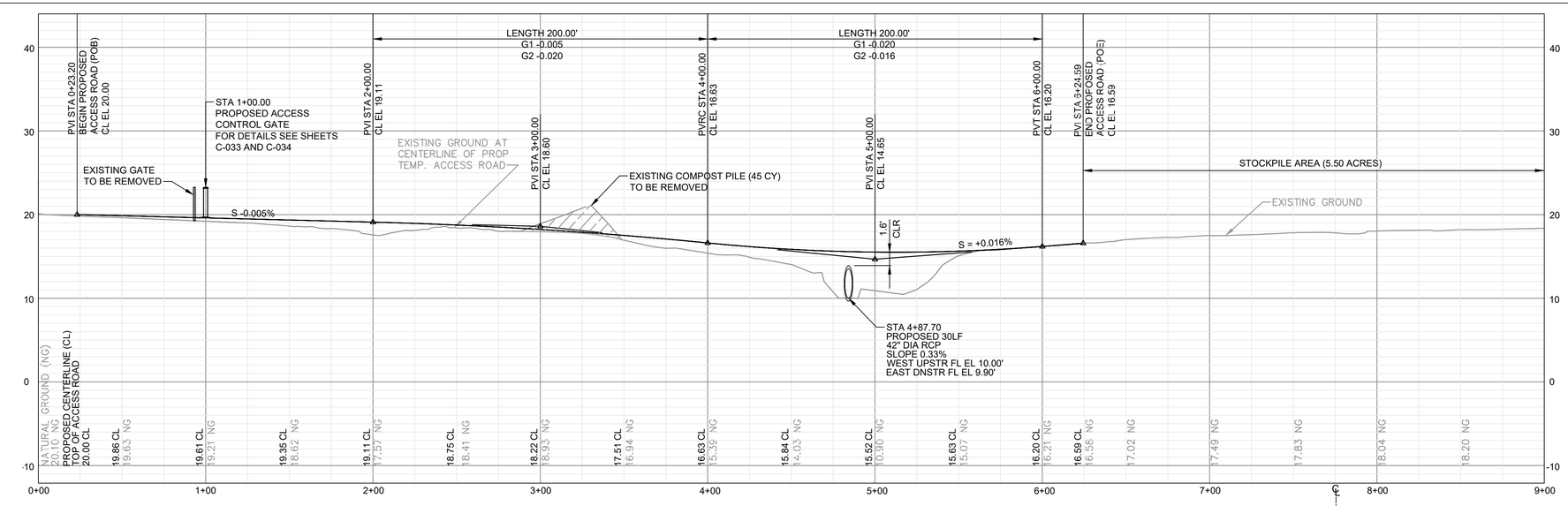


8 OFFSITE TEMPORARY ACCESS ROAD PLAN

SCALE: 1" = 40'

0 40' 80'

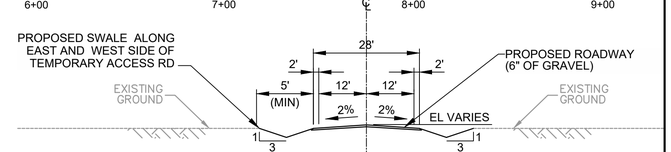


B OFFSITE TEMPORARY ACCESS ROAD PROFILE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

0 40' 80'
HORIZONTAL SCALE

0 10' 20'
VERTICAL SCALE



B / C-009 TYPICAL SECTION - OFFSITE TEMPORARY ACCESS ROAD STA 0+23.20 TO STA 6+24.59

SCALE: 1" = 20'

0 20' 40'

NOTES:

1. TEMPORARY STOCKPILE AREA IS TO BE USED FOR TEMPORARY STORAGE OF MATERIAL TO BE USED DURING CONSTRUCTION OF THE PROPOSED PLACEMENT AREA AND THE ENTRANCE AND EXIT ACCESS ROADS.
2. DURING THE CONSTRUCTION OF AND DURING THE USE OF TEMPORARY ACCESS ROAD, ALL MATERIALS, CONSTRUCTION E□UIPMENT AND TRANSPORT VEHICLES MUST STEER CLEAR OF AND LEAVE UNDISTURBED THE EXISTING WETLAND AREAS ON THE EAST AND WEST SIDE OF ACCESS ROAD AS SHOWN.
3. SEE USACE RE□UIREMENTS FOR ACTIVE CONTROL RE□UIREMENTS OF TEMPORARY STOCKPILE MATERIAL ON SITE.

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

OFFSITE TEMPORARY ACCESS ROAD PLAN & PROFILE

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	G.PENNISON
CADD:	JDL/QL
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	NO SCALE

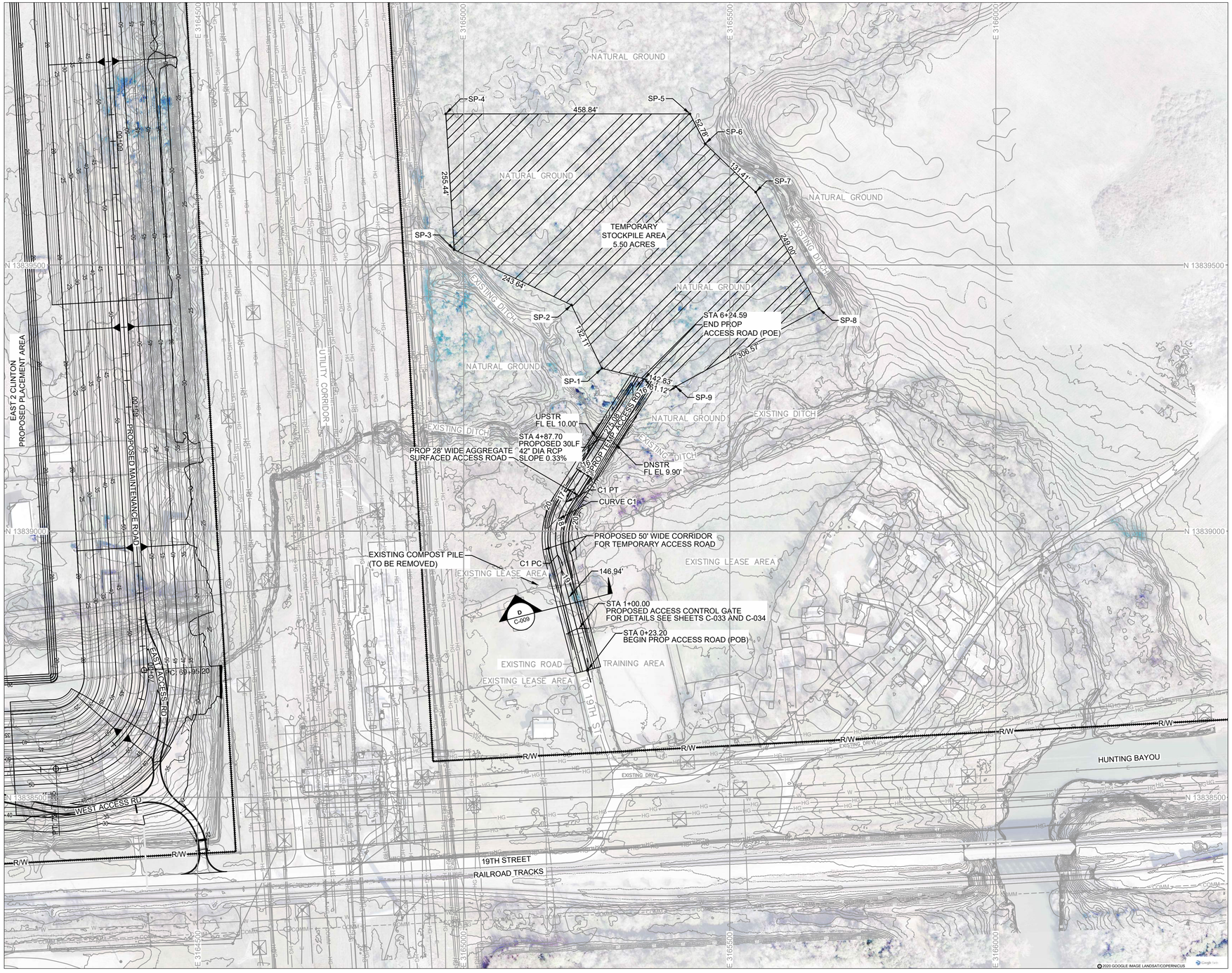
DRAWING NO. C90-D13-P11-002

SHEET NO. C-009 REV. NO. B

E2 CLINTON DMPA

95% REVIEW

TIME: 12-07-20 – 6:18pm User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-009.dwg



9 OFFSITE TEMPORARY STOCKPILE AREA □ ACCESS ROAD

SCALE: 1" = 100'

0 100' 200'

NOTES:

1. TEMPORARY STOCKPILE AREA IS TO BE USED FOR TEMPORARY STORAGE OF MATERIAL TO BE USED DURING CONSTRUCTION OF THE PROPOSED PLACEMENT AREA AND THE ENTRANCE AND EXIT ACCESS ROADS.
2. DURING THE CONSTRUCTION OF AND DURING THE USE OF TEMPORARY ACCESS ROAD, ALL MATERIALS, CONSTRUCTION E□UIPMENT AND TRANSPORT VEHICLES MUST STEAR CLEAR OF AND LEAVE UNDISTURBED THE EXISTING WETLAND AREAS ON THE EAST AND WEST SIDE OF ACCESS ROAD AS SHOWN.
3. SEE USACE RE□UIREMENTS FOR ACTIVE CONTROL RE□UIREMENTS OF TEMPORARY STOCKPILE MATERIAL ON SITE.
4. ALL PROPOSED EMBANKMENT ON THIS PRO□ECT TO BE FROM ON-SITE BORROW.

STOCKPILE AREA COORDINATES

HORIZONTAL DATUM: TEXAS SOUTH-CENTRAL ZONE, NAD 83, U.S. SURVEY FEET

POINT	NORTHING	EASTING
SP-1	N 13839306.02	E 3165259.77
SP-2	N 13839425.03	E 3165202.41
SP-3	N 13839529.08	E 3164982.10
SP-4	N 13839784.03	E 3164966.25
SP-5	N 13839784.03	E 3165425.09
SP-6	N 13839727.84	E 3165453.73
SP-7	N 13839636.94	E 3165548.64
SP-8	N 13839418.24	E 3165667.67
SP-9	N 13839271.67	E 3165398.40

TEMPORARY ACCESS ROAD ALIGNMENT

HORIZONTAL DATUM: TEXAS SOUTH-CENTRAL ZONE, NAD 83, U.S. SURVEY FEET

POINT	STATION	NORTHING	EASTING
POB	0+23.20	13838739.08	3165232.81
C1 PC	2+46.94	13838955.57	3165176.32
C1 PI	2+98.23	13839008.18	3165162.59
C1 CC		13838987.13	3165297.07
C1 PT	3+49.51	13839054.09	3165191.72
POE	6+24.59	13839286.37	3165339.08

CURVE DATA (C1):	
DELTA:	47 00 59"
RADIUS:	125.00'
TANGENT:	54.37'
LENGTH:	102.57'
DIRECTION:	RIGHT

E2 CLINTON DMPA

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

OFFSITE TEMPORARY STOCK PILE AREA & ACCESS ROAD

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	G.PENNISON
CADD:	J.DELEON
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

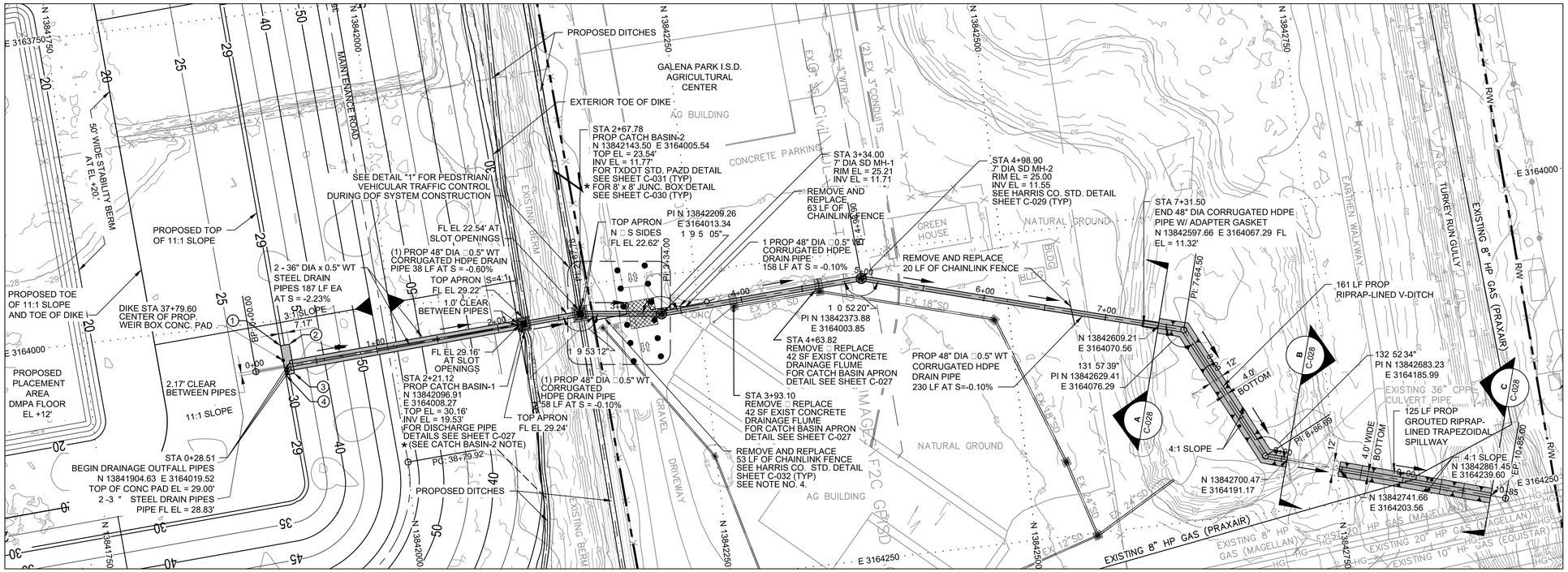
SHEET NO. C-010 REV. NO. B

95% REVIEW

TIME: 12-07-20 – 6:29pm User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-010.dwg

NOTE:

1. STATIONING BEGINNING AT 0+00 AND UPSTATION ALONG THE PROPOSED DRAINAGE OUTFALL SYSTEM, FROM THE WEIR BOX TO THE WETLANDS, READING FROM LEFT TO RIGHT ON THIS SHEET.
2. ALL PROPOSED EMBANKMENT ON THIS PRO□ECT TO BE FROM ON-SITE BORROW.
3. PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE EAST AG BARN DURING DRAINAGE OUTFALL CONSTRUCTION SHALL BE CONTROLLED AS SHOWN IN DETAIL "1" BELOW. CONTRACTOR SHALL PERFORM WORK DURING NON-SCHOOL HOURS ON A WEEKEND (SATURDAY AND/OR SUNDAY AS RE□UIRED).
4. DURING THE REPLACEMENT OF EXISTING CHAINLINK FENCING ON G.P.I.S.D. AGRICULTURAL CENTER PROPERTY, NO BARB WIRE ABOVE FENCE IS RE□UIRED AS SHOWN ON HARRIS CO. STD. DETAIL SHEET C-032.

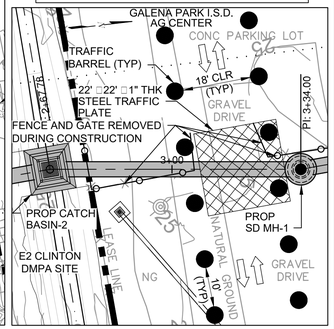


10 DRAINAGE OUTFALL PLAN

SCALE: 1" = 50' HORIZ.

0 50' 100'

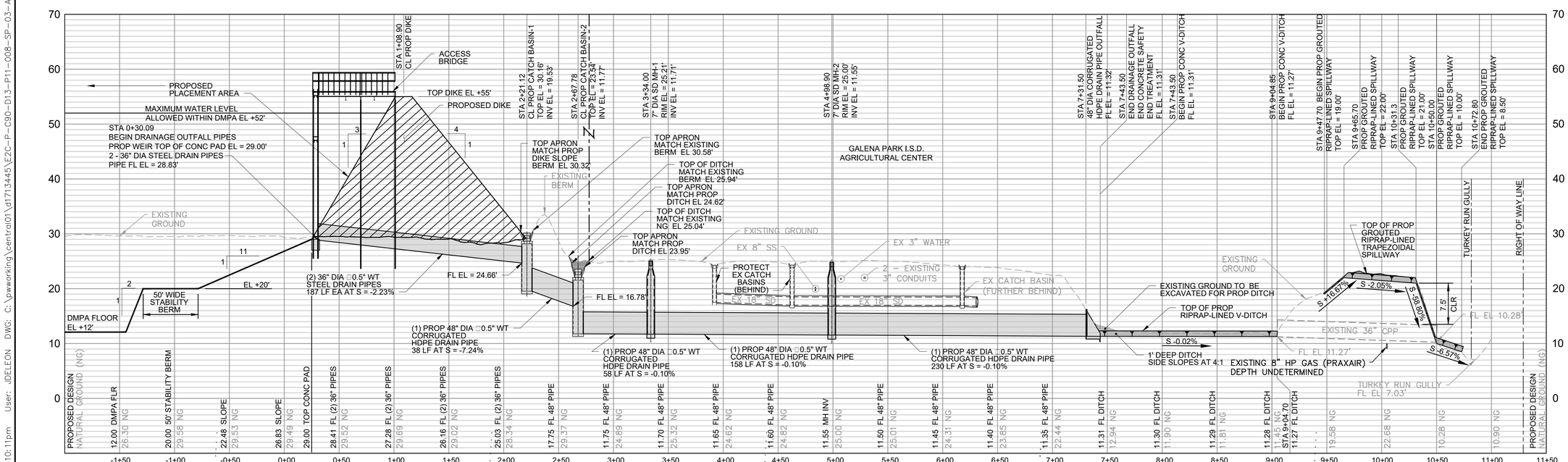
WEIR BOX CONCRETE PAD COORDINATES		
NO.	NORTHING	EASTING
1	13841898.56	3164002.67
2	13841905.72	3164002.26
3	13841907.10	3164026.22
4	13841899.95	3164026.63



1 DETAIL

SCALE: 1" = 20' HORIZ.

0 20' 40'



A DRAINAGE OUTFALL PROFILE

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

0 50' 100'
HORIZONTAL SCALE

0 10' 20'
VERTICAL SCALE

E2 CLINTON DMPA

95% REVIEW

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

DRAINAGE OUTFALL PLAN AND PROFILE LAYOUT

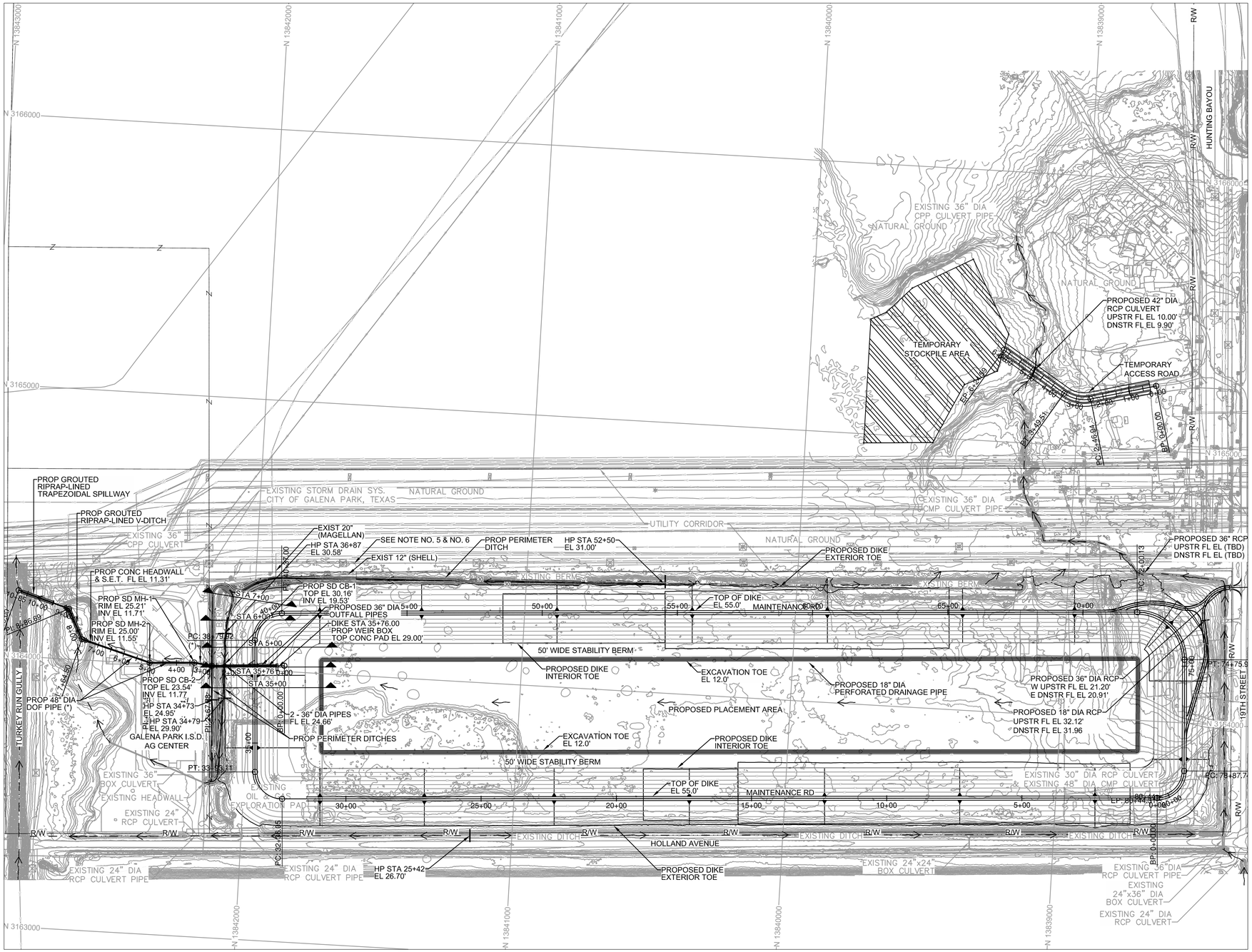
REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	G.PENNISON
CADD:	J.DELEON
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

SHEET NO. C-011 | REV. NO. B

TIME: 12-07-20 – 10:11pm User: JDELEON DWG: C:\pwworking\central01\d1713445\E2C-P-C90-D13-P11-008-SP-03-ALT01-R1.dwg



11 OVERALL SITE DRAINAGE PLAN

SCALE: 1" = 200'

0 200' 400'

NOTE:

1. ALL PROPOSED EMBANKMENT ON THIS PROJECT TO BE FROM ON-SITE BORROW.
2. KEYWAYS REQUIRE REMOVAL, MIXING, PROCESSING AND RECOMPACTION OF INSITU MATERIAL.
3. TEMPORARY CONSTRUCTION DEWATERING TO BE PROVIDED BY CONTRACTOR UNTIL FINISHED GRADING IS COMPLETED. PUMP FROM SUMP ON NORTH END OF +12' EXCAVATION INTO WEIR BOX OUTFALL PIPES AT +29' INVERT.
4. FOR CROSS SECTIONS, SEE SHEET C-017.
5. HIGH PRESSURE GAS LINES, IN PARTICULAR THE EXISTING 20" MAGELLAN AND THE EXISTING 12" SHELL, NEED TO BE PROBED BEFORE START OF CONSTRUCTION TO DETERMINE IF THE TOP OF PIPE ELEVATIONS ARE AT OR BELOW THE REQUIRED 5 FOOT CLEARANCE FROM THE PROPOSED PERIMETER DITCH BOTTOM.
6. THE CONTRACTOR IS TO COORDINATE WITH THE MAGELLAN AND SHELL PIPELINE COMPANIES IN ORDER TO PROBE AND DETERMINE THE TOP OF PIPE ELEVATIONS FOR SAID EXISTING HIGH PRESSURE GAS LINES ON THE EAST SIDE OF THE E2C DMPA.
7. THE PROPOSED ALIGNMENTS, CROSS SECTIONS AND PROFILES FOR THE PROPOSED PERIMETER DITCHES SHOWN WILL BE PROVIDED IN THE 100% PLAN SUBMITTAL.

LEGEND

- DITCH FLOWLINE
- DITCH FLOWLINE DIRECTION
- HIGH POINT CREST (HP)

E2 CLINTON DMPA

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

OVERALL SITE DRAINAGE PLAN

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

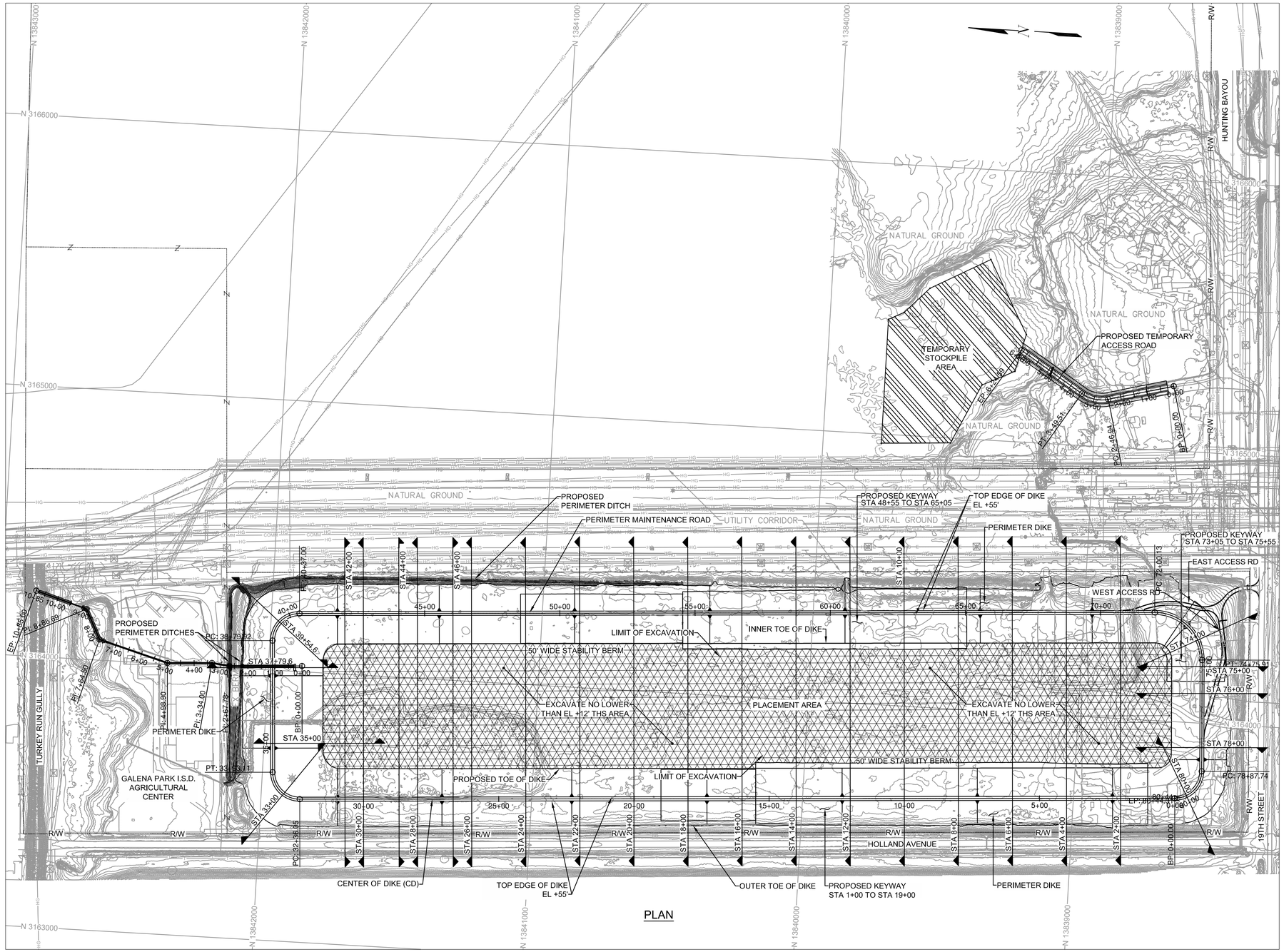
DESIGNER:	G.PENNISON
CADD:	J.DELEON
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

SHEET NO. C-012 REV. NO. B

95% REVIEW

TIME: 12-08-20 – 11:12am User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-012.dwg



PLAN

12 CUT AND FILL SECTION CUTS PLAN LAYOUT

SCALE: 1" = 200'

0 200' 400'

NOTE:

1. ALL PROPOSED EMBANKMENT ON THIS PROJECT TO BE FROM ON-SITE BORROW.
2. KEYWAYS REQUIRE REMOVAL, MIXING, PROCESSING AND RECOMPACTION OF INSITU MATERIAL.
3. FOR CROSS SECTIONS, SEE SHEETS C-014, C-015 AND C-016.

LEGEND

LIMITS OF BORROW AREA FOR DIKE CONSTRUCTION

E2 CLINTON DMPA

PORT OF HOUSTON AUTHORITY

CONSULTANT:

DESIGN PREPARED BY:

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

SEAL:

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MANAGING DIRECTOR – ENGINEERING DESIGN & SUPPORT

PROJECT TITLE:

HOUSTON SHIP CHANNEL (HSC)

EXPANSION CHANNEL IMPROVEMENT PROJECT (ECIP)

PROJECT 11: PACKAGE # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

CUT AND FILL SECTION CUTS PLAN LAYOUT

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

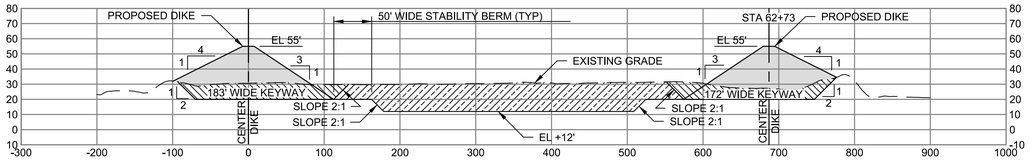
DESIGNER:	G.PENNISON
CADD:	JDL/OS
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

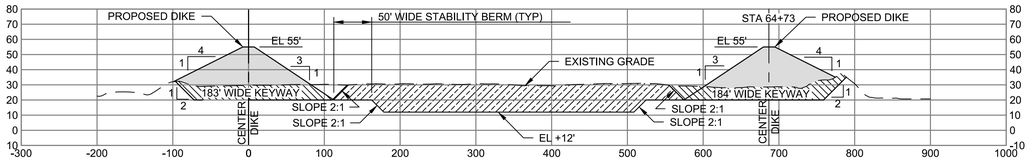
SHEET NO. C-013 REV. NO. B

95% REVIEW

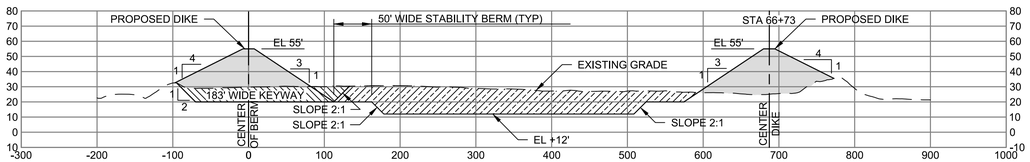
TIME: 12-08-20 – 11:27am User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-013.dwg



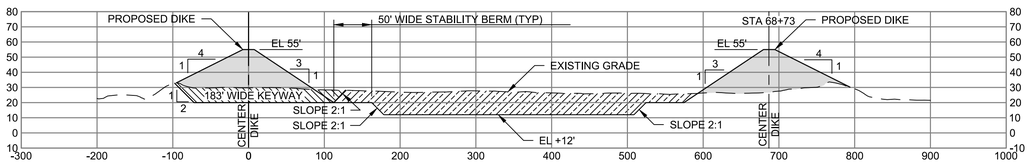
CROSS SECTION STATION 10+00



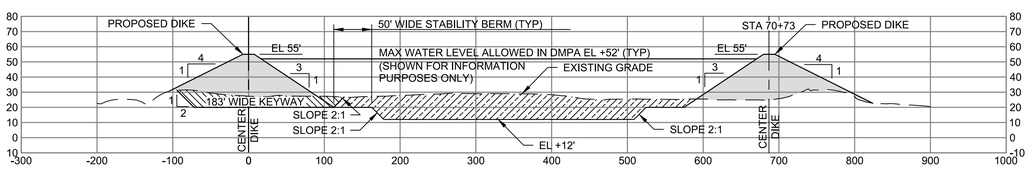
CROSS SECTION STATION 8+00



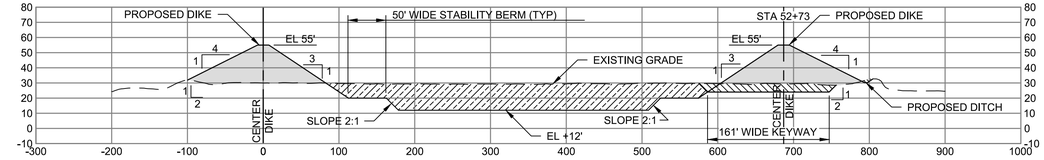
CROSS SECTION STATION 6+00



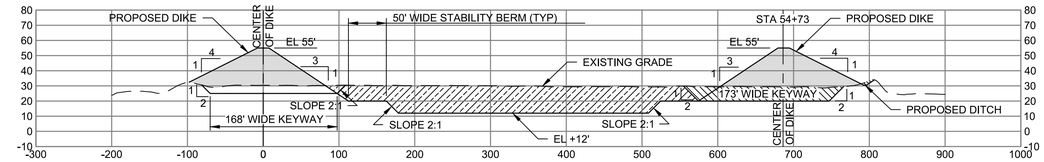
CROSS SECTION STATION 4+00



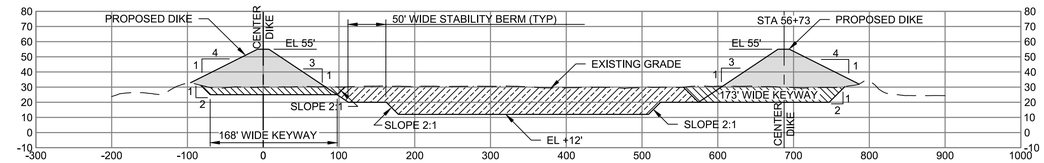
CROSS SECTION STATION 2+00



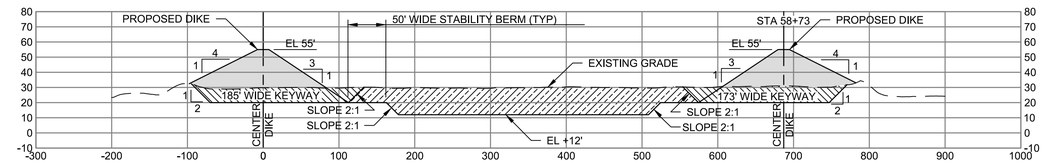
CROSS SECTION STATION 20+00



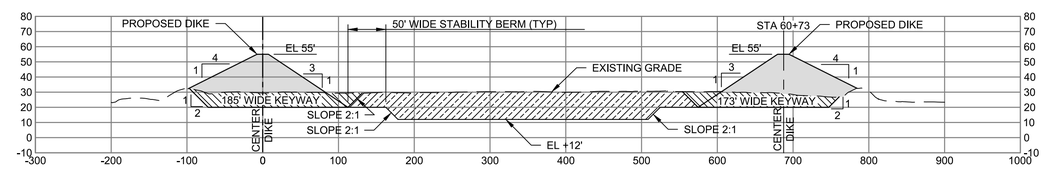
CROSS SECTION STATION 18+00



CROSS SECTION STATION 16+00



CROSS SECTION STATION 14+00



CROSS SECTION STATION 12+00

NOTES:

1. SECTION ELEVATIONS SHOWN ARE IN US SURVEY FEET (FT), NAVD88 (GEOID 12B).
2. HORIZONTAL DISTANCES SHOWN ARE IN US SURVEY FEET (FT), TEXAS SOUTH CENTRAL ZONE 4204, NAD83.
3. FOR SECTION CUTS PLAN LAYOUT, SEE SHEET C-013.
4. ALL PROPOSED EMBANKMENT ON THIS PROJECT TO BE FROM ON-SITE BORROW.
5. KEYWAYS REQUIRE REMOVAL, MIXING, PROCESSING AND RECOMPACTION OF INSITU MATERIAL.

LEGEND

CUT

FILL

CUT FOR KEYWAY

CUT AND FILL CROSS SECTIONS STATION 2+00 TO STATION 20+00

SCALE: AS SHOWN

0 100' 200' HORIZONTAL SCALE

0 50' 100' VERTICAL SCALE

E2 CLINTON DMPA

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

CUT AND FILL CROSS SECTIONS STA 2+00 TO STA 20+00 SHEET 1 OF 3

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

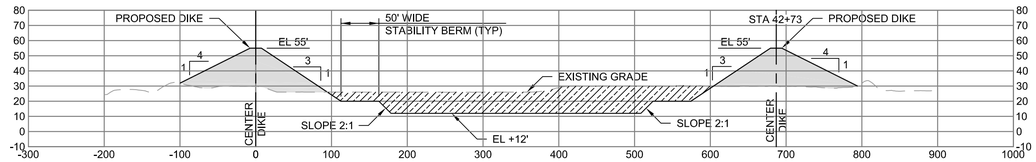
DESIGNER:	G.PENNISON
CADD:	JDL/OS
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

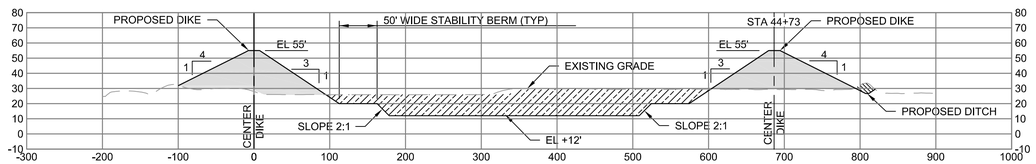
SHEET NO. C-014 REV. NO. B

95% REVIEW

TIME: 12-08-20 – 12:05am User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-014.dwg



CROSS SECTION STATION 30+00



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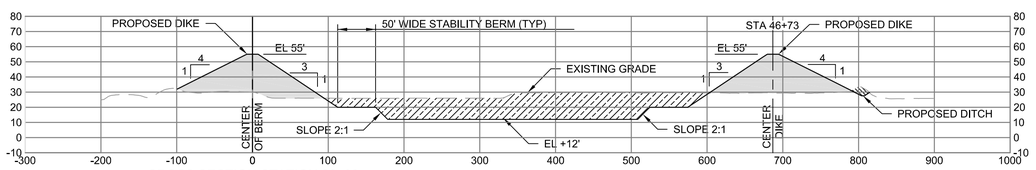
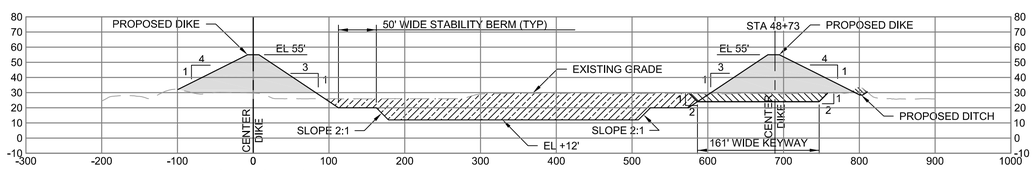
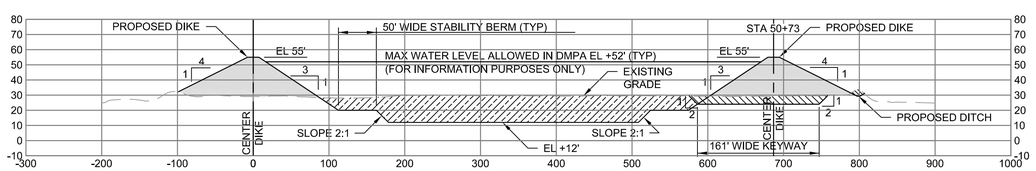


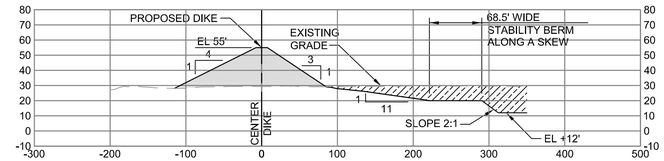
CROSS SECTION STATION 26+00



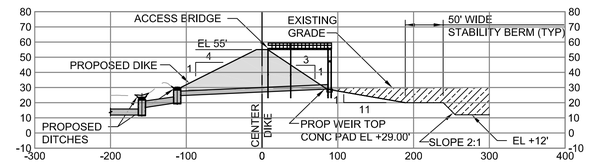
CROSS SECTION STATION 24+00



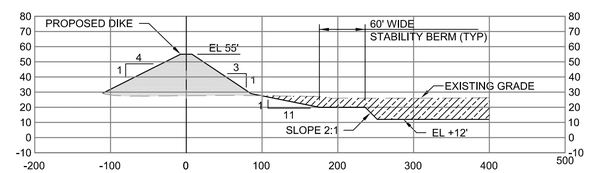
CROSS SECTION STATION 22+00



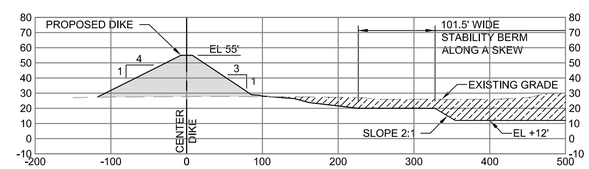
CROSS SECTION STATION 39+54.60



CROSS SECTION STATION 37+79.6



CROSS SECTION STATION 35+00



CROSS SECTION STATION 33+00

CUT AND FILL CROSS SECTIONS STATION 22+00 TO STATION 37+54.60

SCALE: AS SHOWN

0 100' 200' HORIZONTAL SCALE

0 50' 100' VERTICAL SCALE

NOTES:

1. SECTION ELEVATIONS SHOWN ARE IN US SURVEY FEET (FT), NAVD88 (GEOID 12B).
2. HORIZONTAL DISTANCES SHOWN ARE IN US SURVEY FEET (FT), TEXAS SOUTH CENTRAL ZONE 4204, NAD83.
3. FOR SECTION CUTS PLAN LAYOUT, SEE SHEET C-013.
4. ALL PROPOSED EMBANKMENT ON THIS PROJECT TO BE FROM ON-SITE BORROW.
5. KEYWAYS REQUIRE REMOVAL, MIXING, PROCESSING AND RECOMPACTION OF INSITU MATERIAL.

LEGEND

- CUT
- FILL
- CUT FOR KEYWAY

E2 CLINTON DMPA

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

CUT AND FILL CROSS SECTIONS STA 22+00 TO STA 39+54.60 SHEET 2 OF 3

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

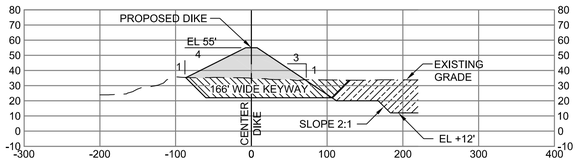
DESIGNER:	G.PENNISON
CADD:	JDL/OS
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

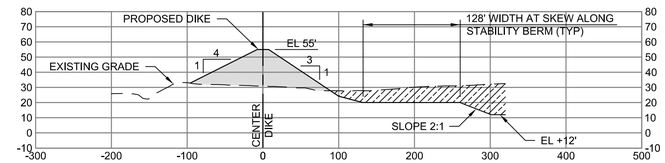
SHEET NO. C-015 REV. NO. B

95% REVIEW

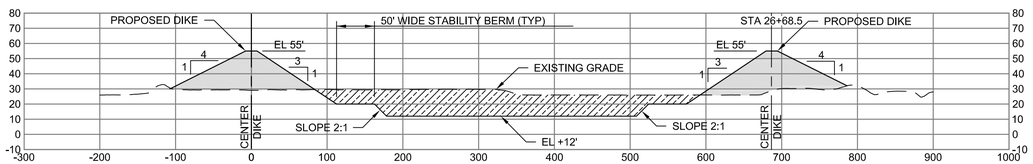
TIME: 12-08-20 – 11:34am User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-015.dwg



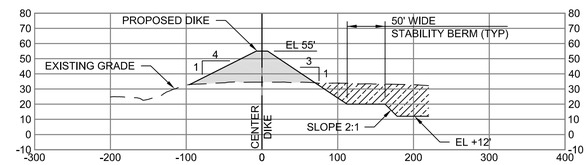
CROSS SECTION STATION 74+00



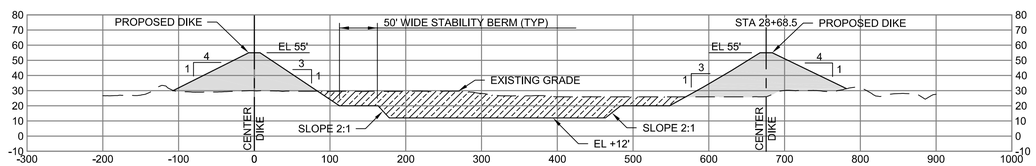
CROSS SECTION STATION 80+00



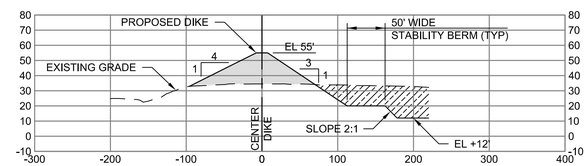
CROSS SECTION STATION 46+00



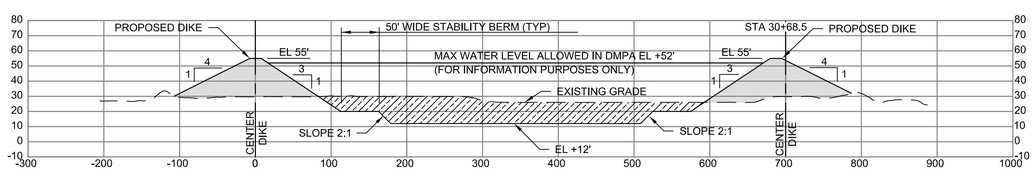
CROSS SECTION STATION 78+00



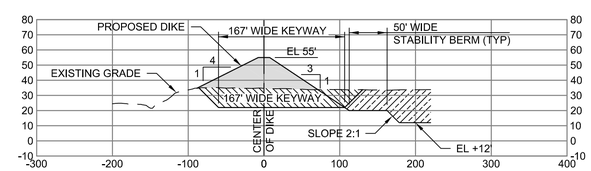
CROSS SECTION STATION 44+00



CROSS SECTION STATION 76+00



CROSS SECTION STATION 42+00



CROSS SECTION STATION 75+00

CUT AND FILL CROSS SECTIONS STATION 42+00 TO STATION 80+00

SCALE: AS SHOWN

0 100' 200' HORIZONTAL SCALE

0 50' 100' VERTICAL SCALE

NOTES:

1. SECTION ELEVATIONS SHOWN ARE IN US SURVEY FEET (FT), NAVD88 (GEOID 12B).
2. HORIZONTAL DISTANCES SHOWN ARE IN US SURVEY FEET (FT), TEXAS SOUTH CENTRAL ZONE 4204, NAD83.
3. FOR SECTION CUTS PLAN LAYOUT, SEE SHEET C-013.
4. ALL PROPOSED EMBANKMENT ON THIS PROJECT TO BE FROM ON-SITE BORROW.
5. KEYWAYS REQUIRE REMOVAL, MIXING, PROCESSING AND RECOMPACTION OF INSITU MATERIAL.
6. PROPOSED WEST ACCESS ROAD IS NOT SHOWN ON SECTIONS AT STATION 74+00, STATION 75+00 AND STATION 76+00. WEST ACCESS ROAD WILL BE SHOWN ON THE SECTIONS FOR 100% SUBMITTAL PLANS.

LEGEND

CUT

FILL

CUT FOR KEYWAY

E2 CLINTON DMPA

95% REVIEW

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

CUT AND FILL CROSS SECTIONS STA 42+00 TO STA 80+00 SHEET 3 OF 3

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

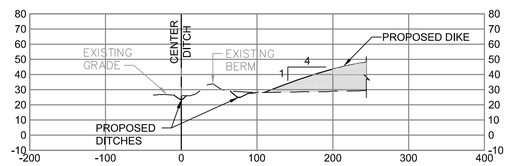
DESIGNER:	G.PENNISON
CADD:	JDL/OS
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO.
C90-D13-P11-002

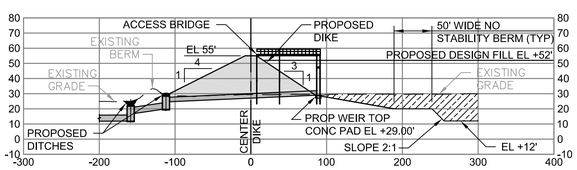
SHEET NO. C-016

REV. NO. B

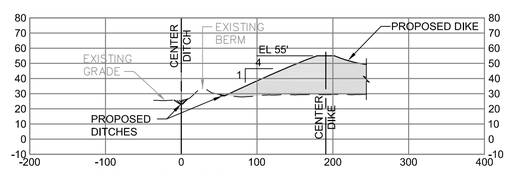
TIME: 12-08-20 – 12:30pm User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-016.dwg



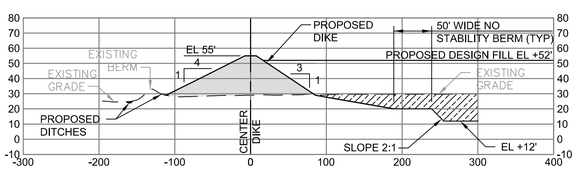
CROSS SECTION DITCH STATION 7+00



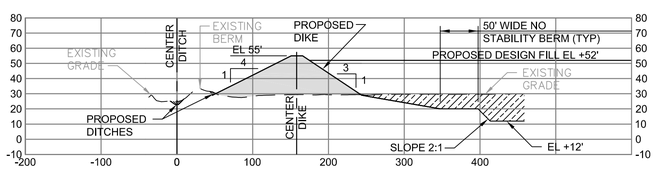
CROSS SECTION DIKE STATION 35+76
(DITCH STA 4+26.3)



CROSS SECTION DITCH STATION 6+00



CROSS SECTION DIKE STATION 35+00
(DITCH STA 3+50.3)



CROSS SECTION DITCH STATION 5+00

PERIMETER DITCH CROSS SECTIONS STATION 3+50.3 TO STATION 7+00

SCALE: AS SHOWN

0 100' 200'
HORIZONTAL SCALE

0 50' 100'
VERTICAL SCALE

NOTES:

1. SECTION ELEVATIONS SHOWN ARE IN US SURVEY FEET (FT), NAVD88 (GEOID 12B).
2. HORIZONTAL DISTANCES SHOWN ARE IN US SURVEY FEET (FT), TEXAS SOUTH CENTRAL ZONE 4204, NAD83.
3. FOR SECTION CUTS, SEE OVERALL SITE DRAINAGE PLAN LAYOUT SHEET C-012.
4. ALL PROPOSED EMBANKMENT ON THIS PROJECT TO BE FROM ON-SITE BORROW.
5. KEYWAYS REQUIRE REMOVAL, MIXING, PROCESSING AND RECOMPACTION OF INSITU MATERIAL.

LEGEND

CUT

FILL

CUT FOR KEYWAY

E2 CLINTON DMPA

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

PERIMETER DITCH CROSS SECTIONS STA 3+50.3 TO STA 7+00

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

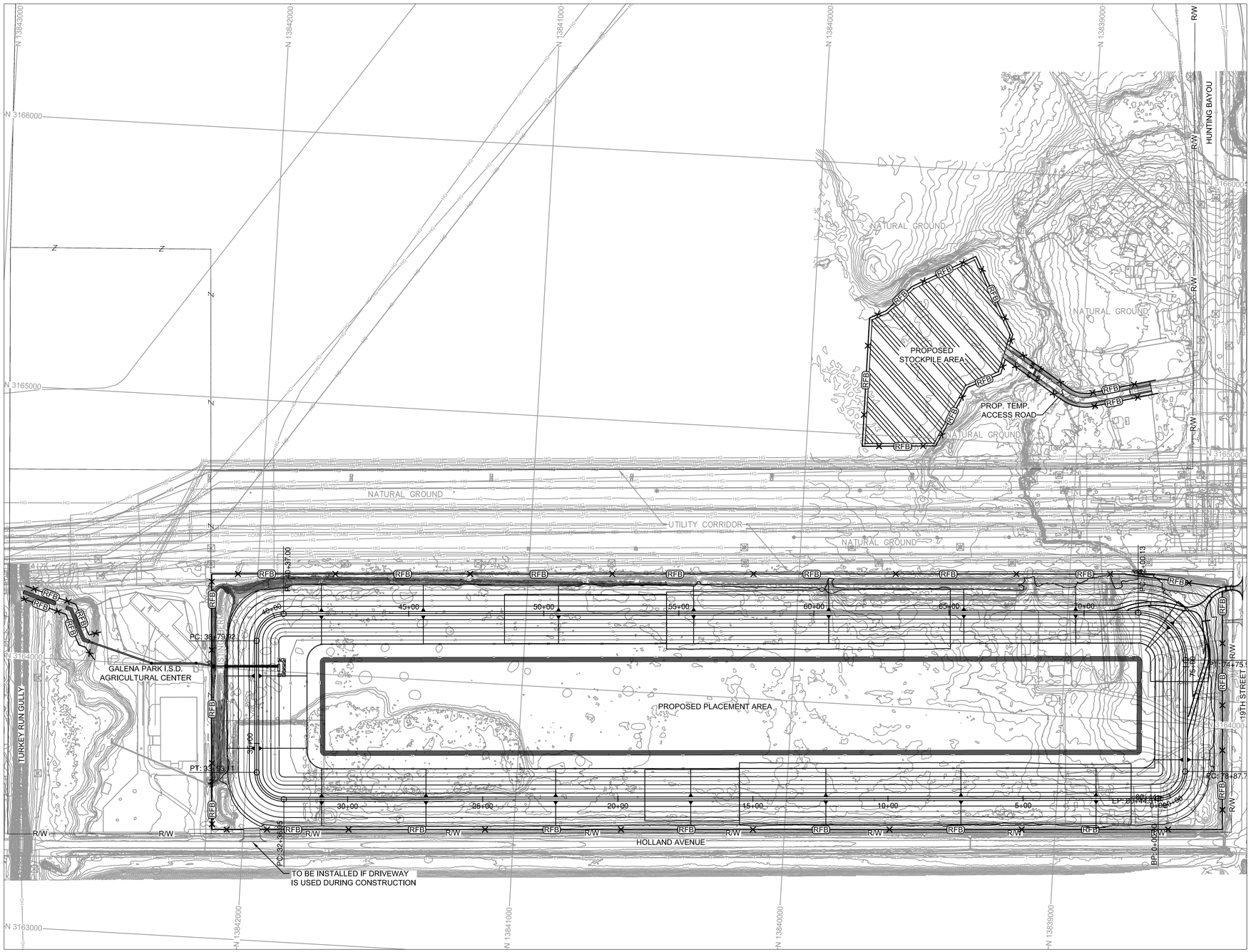
DESIGNER:	G.PENNISON
CADD:	JDL
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO.
C90-D13-P11-002

SHEET NO. C-017
REV. NO. B

95% REVIEW

TIME: 12-08-20 – 11:00am User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-017.dwg



13 STORMWATER POLLUTION PREVENTION PLAN

SCALE: 1" = 200'

0 200' 400'

NOTE:

1. SEE HARRIS COUNTY REQUIREMENTS FOR SILT FENCING REQUIREMENTS NEAR STOCKPILE AREA AND TEMPORARY ACCESS ROAD AND ACTIVE CONTROL OF TEMPORARY STOCKPILE MATERIAL ON SITE.
2. ALL WORK SHALL BE HALTED IF SPILLS OR EMISSIONS ARE OBSERVED ENTERING ANY BODIES OF WATER OR FOUND IN AREAS WHERE STORMWATER RUNOFF COULD CARRY THE DEBRIS INTO BODIES OF WATER OR STORM SEWER. CONTRACTOR MUST CLEANUP AND REPORT INCIDENTS APPROPRIATELY AND IN A TIMELY MANNER.

LEGEND

- RFB — REINFORCED FILTER FABRIC BARRIER
- ROCK FILTER BERM
- STABILIZED CONSTRUCTION EXIT

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 # 8

SHEET TITLE:

SEGMENT 4 BOGGY BAYOU TO SIMS BAYOU TURNING BASIN E2 CLINTON DMPA & BELTWAY 8 DMPA

STORMWATER POLLUTION PREVENTION PLAN

REV	DATE	DESCRIPTION
A	8/15/20	65% SUBMITTAL
B	12/08/20	95% SUBMITTAL

DESIGNER:	G.PENNISON
CADD:	J.DELEON
CHECKER:	N.McLELLAN
DATE:	12/08/2020
SCALE:	AS NOTED

DRAWING NO. C90-D13-P11-002

SHEET NO. C-018

REV. NO. B

E2 CLINTON DMPA

95% REVIEW

TIME: 12-08-20 – 12:43pm User: JDELEON DWG: C:\pwworking\central01\d1713444\C90-D13-P11-008-C-018.dwg