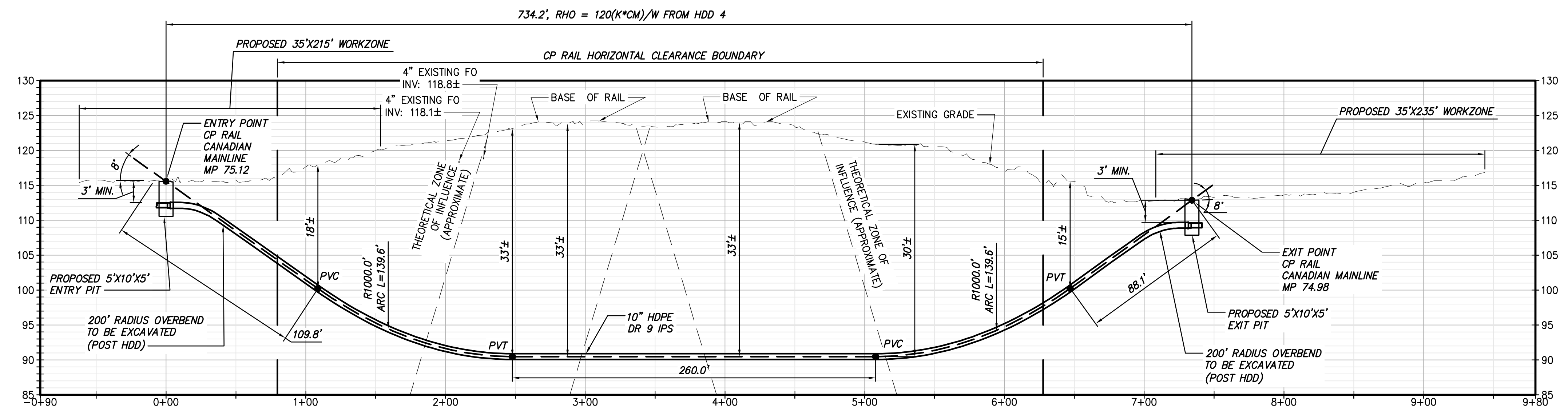
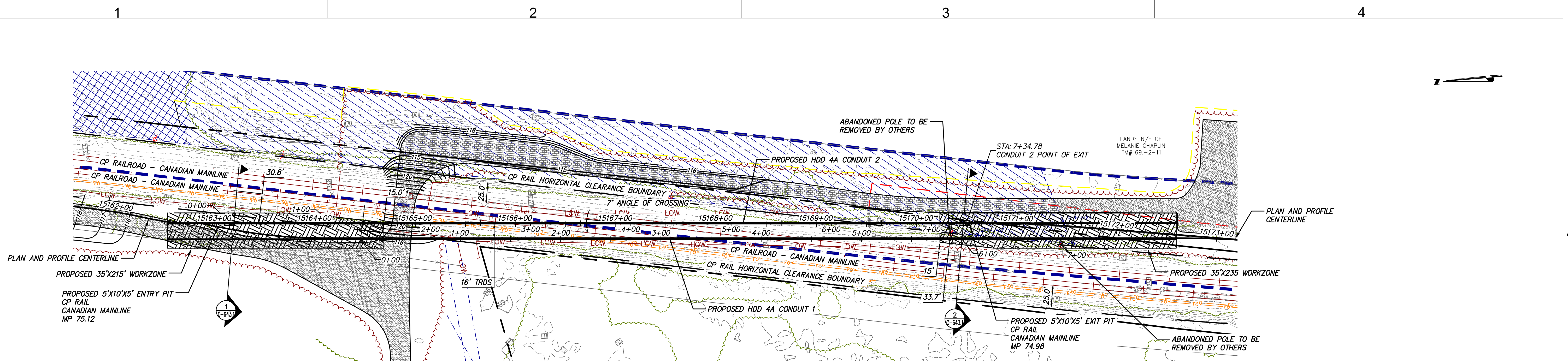


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PROPOSED HDD 4A PROFILE
CONDUIT 2

| Legend | |
|-----------------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| DH | ORGANIC Fat CLAY |
| DL | ORGANIC Lean CLAY |
| DL/DH | ORGANIC SILT |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoll | Topsoll |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Weathered |
| Water Table during drilling | Water Table during drilling |
| Water Table after drilling | Water Table after drilling |

| BORING LOG STRIP LEGEND | |
|---|----------------|
| B101 | 11000psi = UCS |
| Blow Counts per 6" = 10-10-10 | |
| Recovery %/RQD % = 95%/90% | |
| 2D strip logs shown at 10x exaggeration 3D strip logs have no exaggeration | |

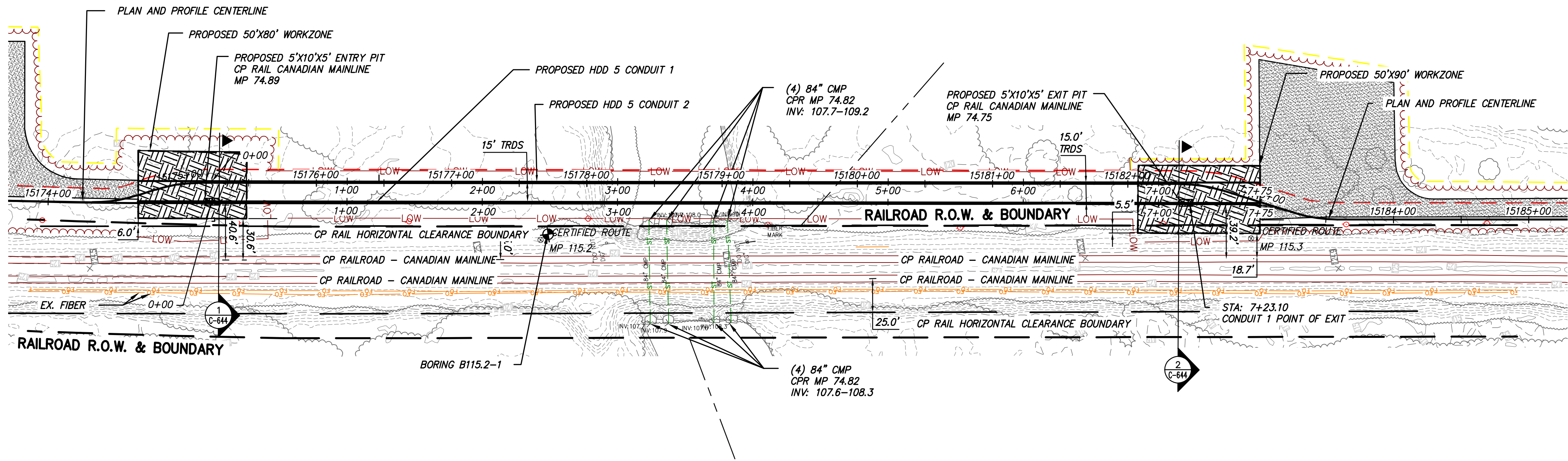


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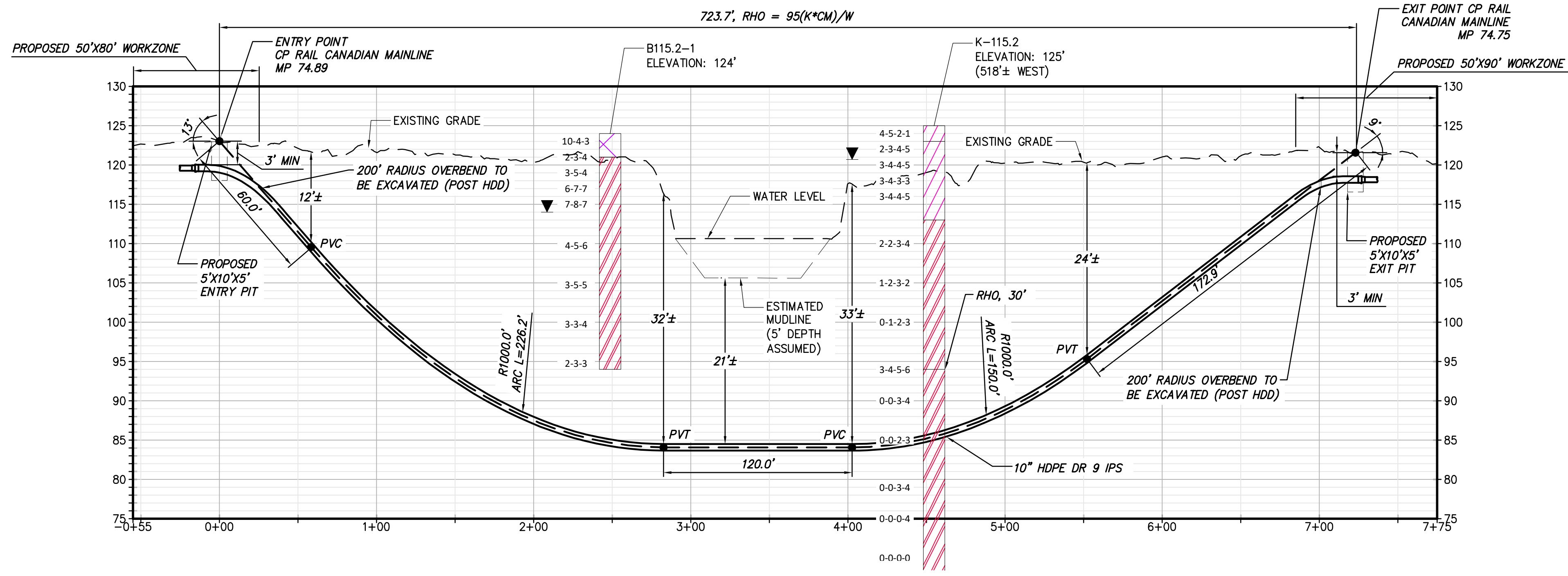
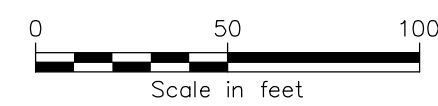
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|-----|------------|----------------------------------|-----|-----|
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 4A, CONDUIT 2

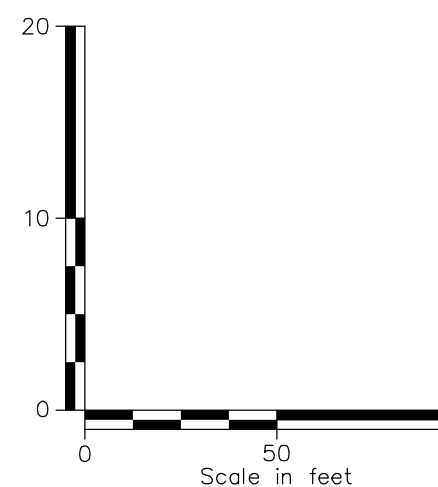
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| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 086076 |
| DRAWING NO. | C-303A |
| SCALE | AS NOTED |
| DATE | 12/16/2022 |



PROPOSED HDD 5 PLAN VIEW
CONDUIT 1

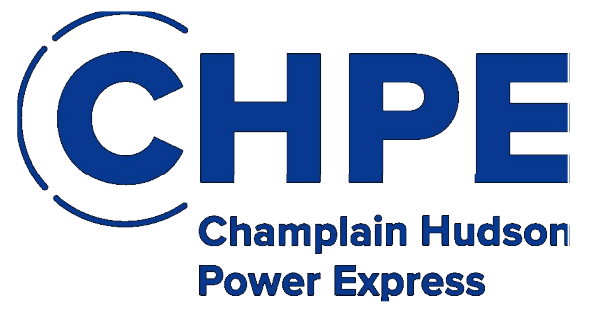


PROPOSED HDD 5 PROFILE
CONDUIT 1



| Legend | |
|-----------------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| DH | ORGANIC Fat CLAY |
| DL | ORGANIC Lean CLAY |
| DL/DH | ORGANIC SILT |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoll | Topsoll |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Weathered |
| Water Table during drilling | Water Table during drilling |
| Delayed Water Table | Water Table after drilling |

| BORING LOG STRIP LEGEND | |
|---|----------------|
| B101 | 11000psi = UCS |
| Blow Counts per 6" = 10-10-10 | |
| Recovery %/RQD % = 95%/90% | |
| 2D strip logs shown at 10x exaggeration | |
| 3D strip logs have no exaggeration | |



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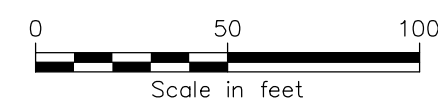
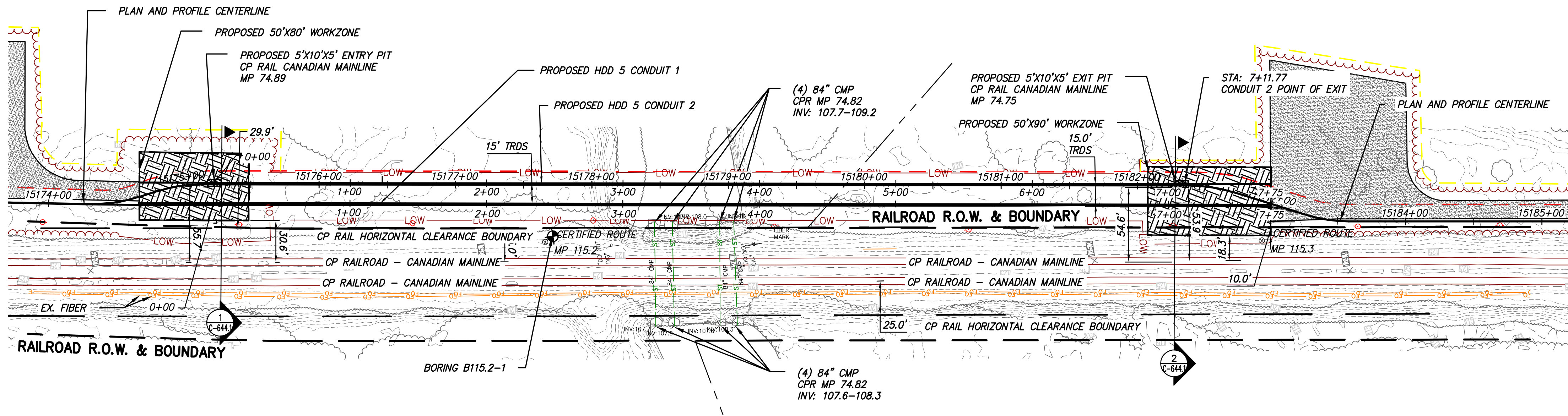
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
|-----|------------|----------------------------------|-----|-----|
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 5, CONDUIT 1

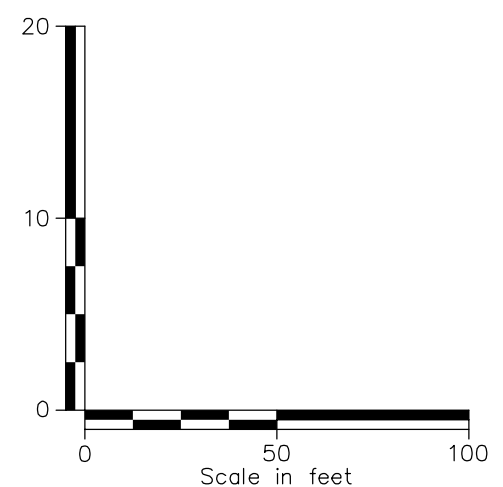
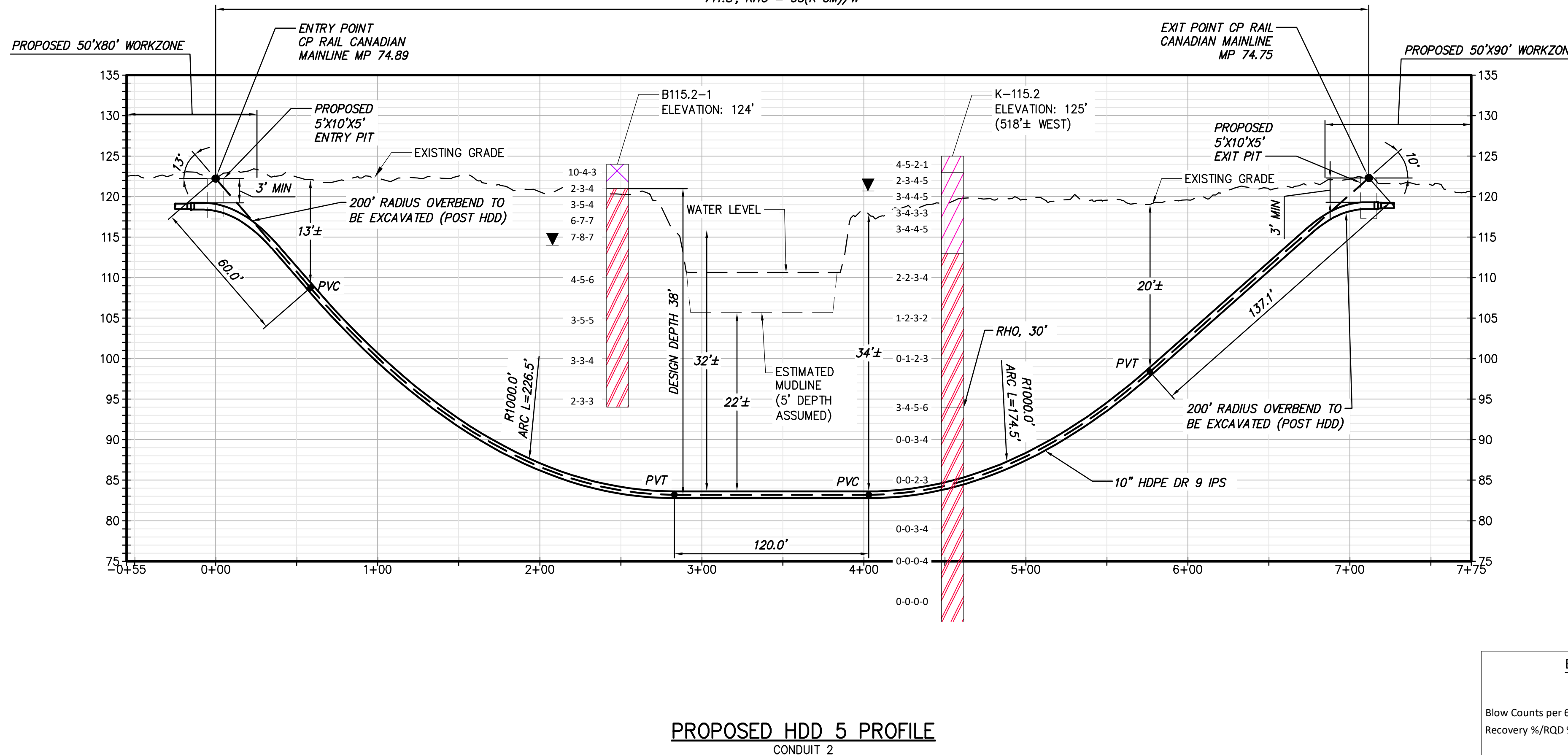
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| DRAWN BY: | CJL | DESIGNED BY: | CJL | APPROVED BY: | JEO | SCALE: | AS NOTED | DATE: | 12/16/2022 |
| REV. NO. | | | | | | | X | | |

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| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 086076 |
| DRAWING NO. | C-304 |

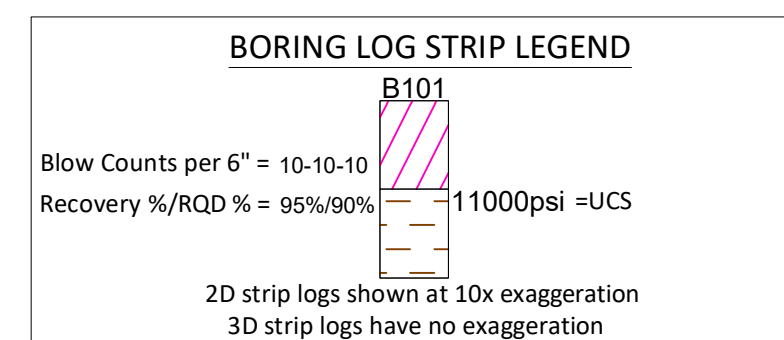
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PROPOSED HDD 5 PLAN VIEW
CONDUIT 2
711.8', RHO = 95(K*CM)/W



PROPOSED HDD 5 PROFILE
CONDUIT 2



| Legend | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SILL |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoll | Topsoll |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Undefined |
| Water Table | Water Table during drilling |
| Delayed Water Table | Water Table after drilling |



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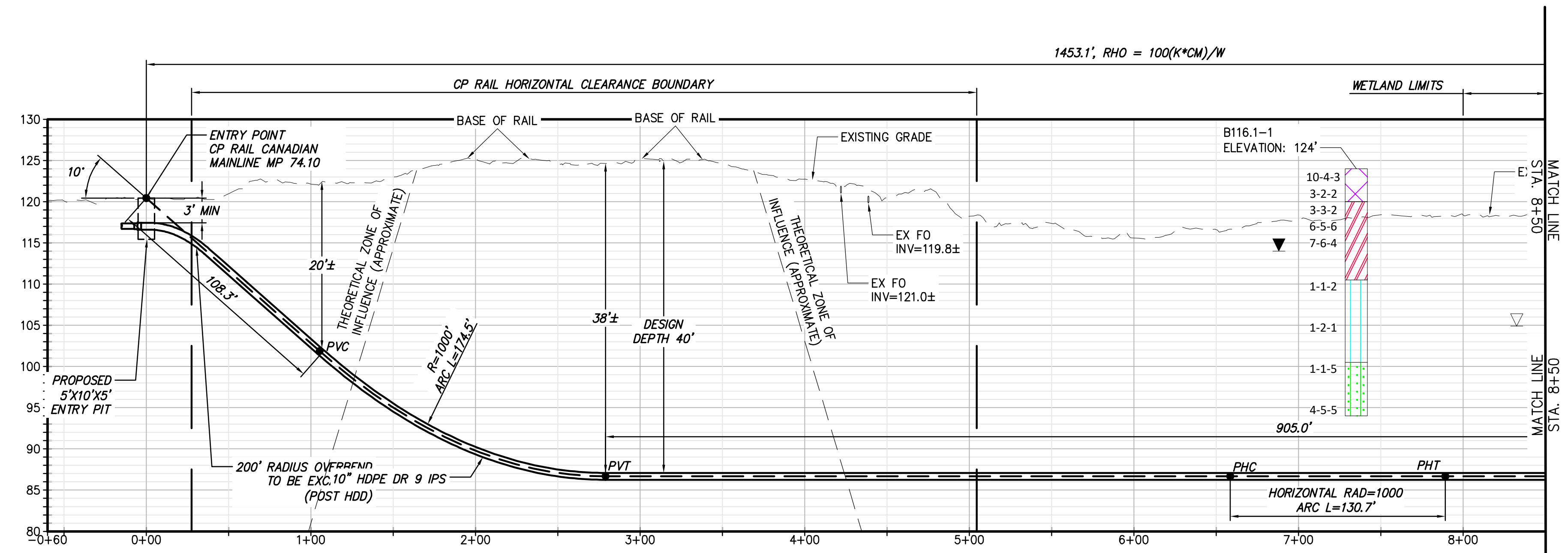
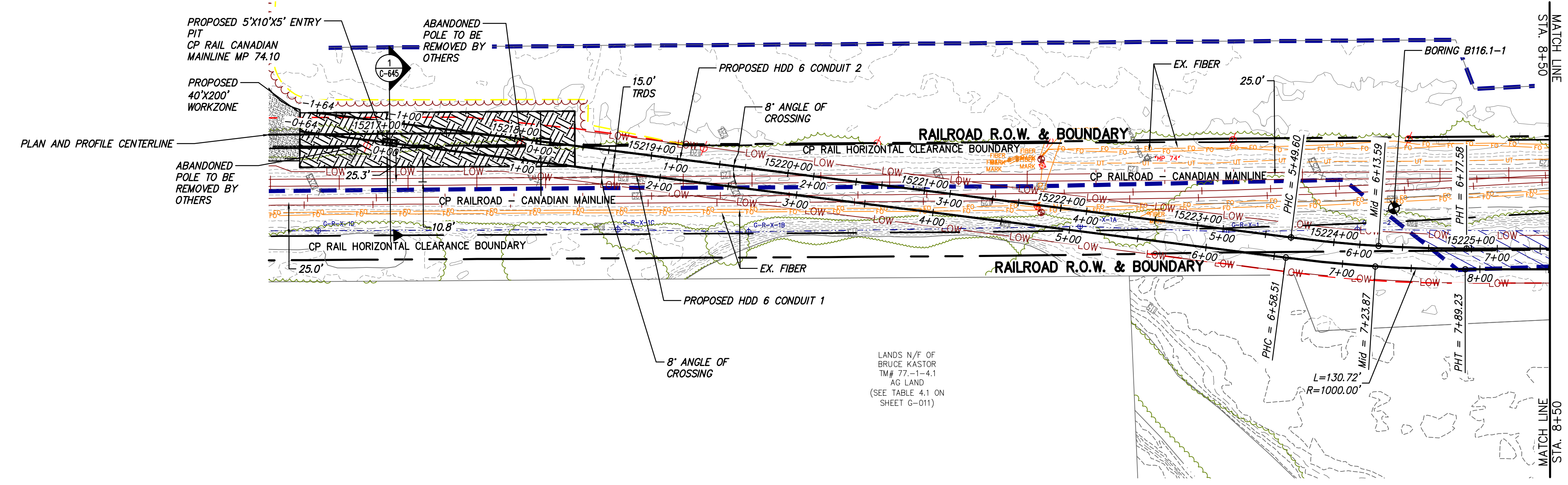
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
|-----|------------|----------------------------------|-----|-----|
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 5, CONDUIT 2

DRAWN BY: CJL DESIGNED BY: CJL APPROVED BY: JEO SCALE: AS NOTED DATE: 12/16/2022

| | |
|--------------------|---------------|
| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 086076 |
| DRAWING NO. | C-304A |
| DATE | 12/16/2022 |

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NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASES OF FRILLING FLUIDS.

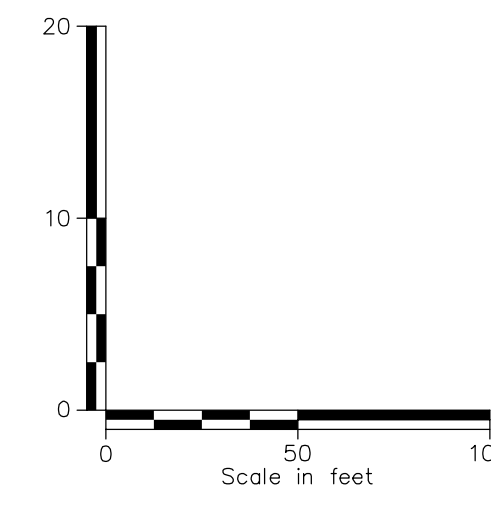
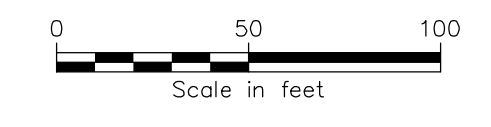
BORING LOG STRIP LEGEND

Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%

11000psi = UCS

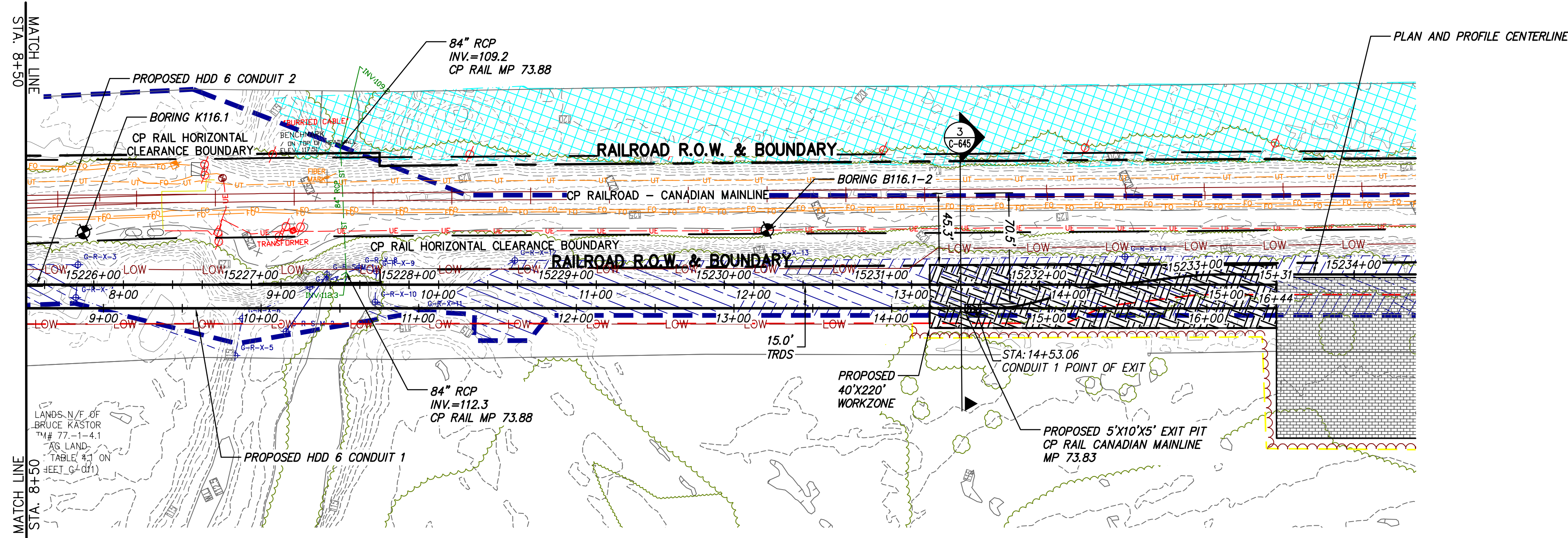
2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

| Legend | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SILT |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoil | Topsoil |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Undefined |
| Water Table | Water Table during drilling |
| Delayed Water Table | Water Table after drilling |

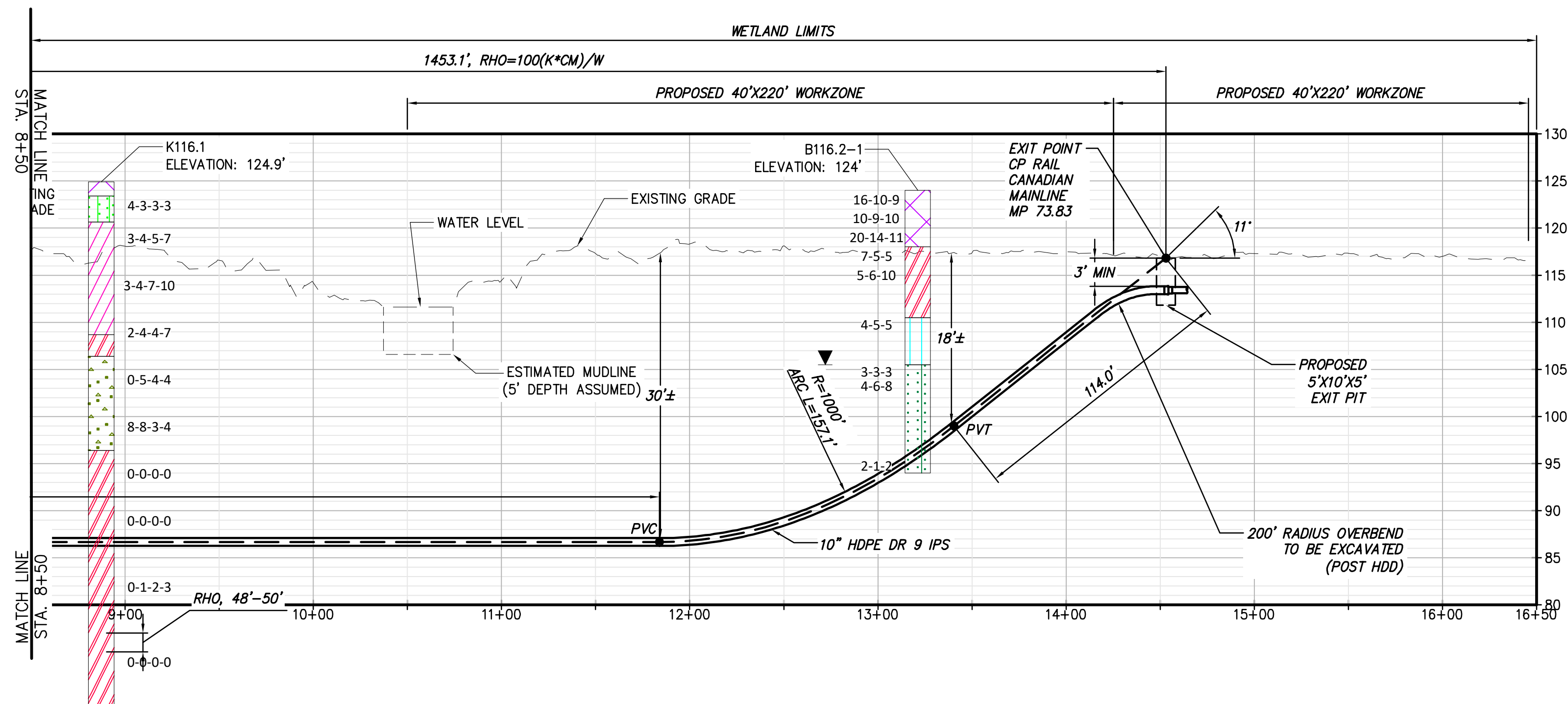


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| | | | | | |
|---|------------|----------------------------------|------------------|---|------------------|
| CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN PLAN AND PROFILE - HDD 6, CONDUIT 1 | | | | KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 086076 DRAWING NO. C-305 | |
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO | DATE |
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP | DATE |
| DRAWN BY: CJL | | | DESIGNED BY: CJL | | APPROVED BY: JEO |
| SCALE | | | AS NOTED | | DATE |
| REV. NO. | | | X | | 12/16/2022 |



PROPOSED HDD 6 PLAN VIEW
CONDUIT 1



PROPOSED HDD 6 PROFILE
CONDUIT 1

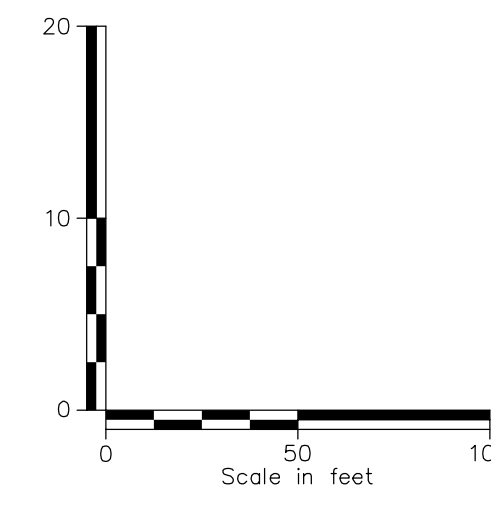
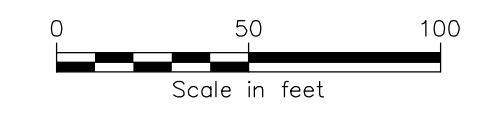
NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASES OF FRILLING FLUIDS.

BORING LOG STRIP LEGEND

| | |
|-----------------------|------|
| | B101 |
| Blow Counts per 6\"/> | |

Legend

| | | |
|--|-----------------------------|---------------------------------|
| | ASPHALT | Asphalt |
| | Bedrock | Bedrock |
| | Boulder | Boulder |
| | CH | Fat CLAY |
| | CH-MH | SILTY Fat CLAY |
| | CL | Lean CLAY |
| | CL-ML | SILTY CLAY |
| | CDNCRETE | Concrete |
| | FILL | Fill |
| | GC | CLAYEY GRAVEL |
| | GC-GM | SILTY CLAYEY GRAVEL |
| | GM | SILTY GRAVEL |
| | GP | Poorly Graded GRAVEL |
| | GP-GC | Poorly Graded Gravel with CLAY |
| | GP-GM | Poorly Graded GRAVEL with SILT |
| | GW | Well Graded GRAVEL |
| | GW-GC | Well Graded GRAVEL with CLAY |
| | GW-GM | Well Graded GRAVEL with SILT |
| | Limestone | Limestone |
| | MH | Elastic SILT |
| | ML | SILT |
| | OH | ORGANIC Fat CLAY |
| | OL | ORGANIC Lean CLAY |
| | OL/OH | ORGANIC SILL |
| | PT | PEAT |
| | Rock | Rock |
| | Sandstone | Sandstone |
| | SC | CLAYEY SAND |
| | SC-SM | SILT, CLAYEY SAND |
| | SHALE | Shale |
| | SILTSTONE | Siltstone |
| | SM | SILTY SAND |
| | SP | Poorly Graded SAND |
| | SP-SC | Poorly Graded SAND with CLAY |
| | SP-SM | Poorly Graded SAND with SILT |
| | SW | Well graded SAND |
| | SW-SC | Well Graded SAND with CLAY |
| | SW-SM | Well Graded SAND with SILT |
| | Topsail | Topsail |
| | USGS 601 | Gravel or Conglomerate 1 |
| | USGS 654 | Subgraywacke |
| | USGS 670 | Interbedded Sandstone and Shale |
| | USGS 702 | Quartzite |
| | USGS 705 | Schist |
| | USGS 705 | Schist |
| | USGS 708 | Gneiss |
| | USGS 708 | Gneiss |
| | USGS 718 | Granite 1 |
| | Void | Void |
| | Water | Water |
| | Weathered Rock | Undefined |
| | Water Table during drilling | Water Table during drilling |
| | Water Table after drilling | Water Table after drilling |



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| | | | | |
|-----|------------|----------------------------------|-----|-----|
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 6, CONDUIT 1

| | |
|---------------------------|----------------|
| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 086076 |
| DRAWING NO. | C-305.1 |
| SCALE | AS NOTED |
| DATE | 12/16/2022 |

A

B

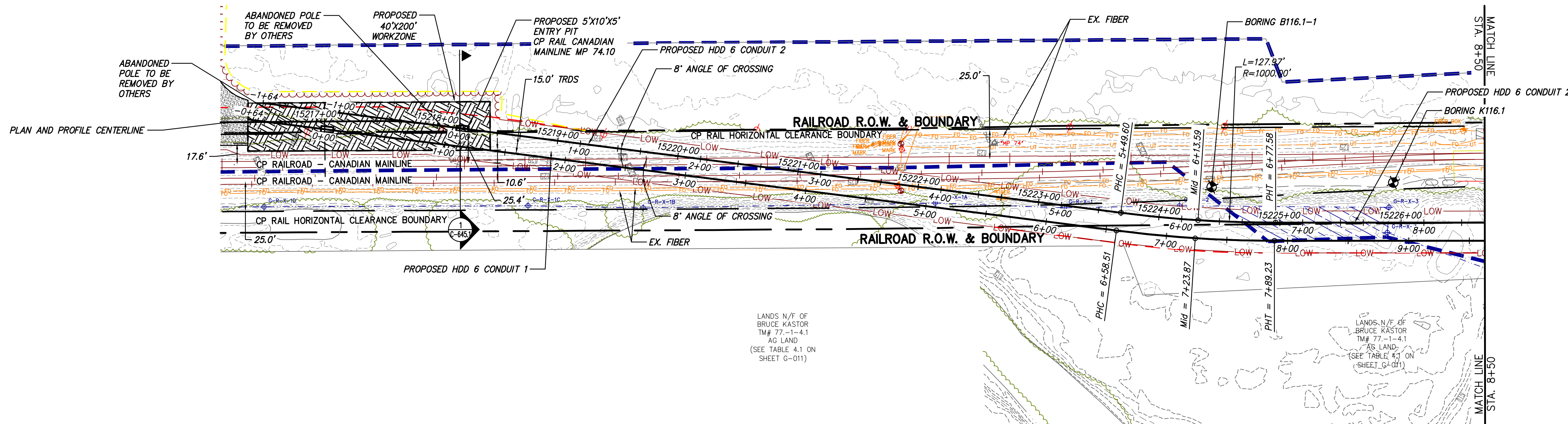
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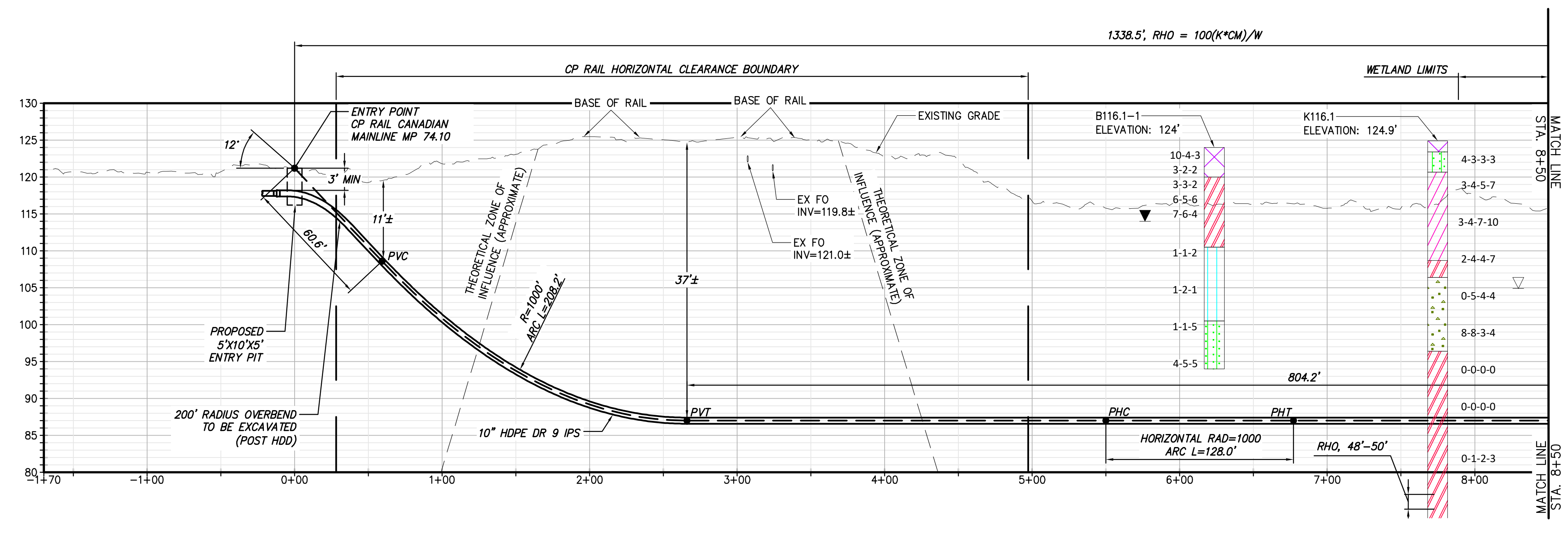
2

3

4



PROPOSED HDD 6 PLAN VIEW
CONDUIT 2



PROPOSED HDD 6 PROFILE
CONDUIT 2

NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASES OF FRILLING FLUIDS.

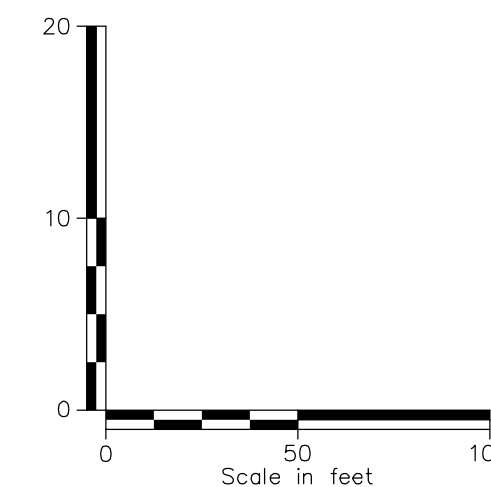
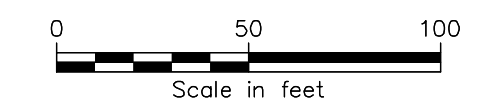
BORING LOG STRIP LEGEND

| | |
|--|-------------------------------|
| | B101 |
| | Blow Counts per 6' = 10-10-10 |
| | Recovery %/RQD % = 95%/90% |
| | 11000psi = UCS |

2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend

| | | |
|--|-----------------------------|---------------------------------|
| | ASPHALT | Asphalt |
| | Bedrock | Bedrock |
| | Boulder | Boulder |
| | CH | Fat CLAY |
| | CH-MH | SILTY Fat CLAY |
| | CL | Lean CLAY |
| | CL-ML | SILTY CLAY |
| | CDNCRETE | Concrete |
| | FILL | Fill |
| | GC | CLAYEY GRAVEL |
| | GC-GM | SILTY CLAYEY GRAVEL |
| | GM | SILTY GRAVEL |
| | GP | Poorly Graded GRAVEL |
| | GP-GC | Poorly Graded Gravel with CLAY |
| | GP-GM | Poorly Graded GRAVEL with SILT |
| | GW | Well Graded GRAVEL |
| | GW-GC | Well Graded GRAVEL with CLAY |
| | GW-GM | Well Graded GRAVEL with SILT |
| | Limestone | Limestone |
| | MH | Elastic SILT |
| | ML | SILT |
| | OH | ORGANIC Fat CLAY |
| | OL | ORGANIC Lean CLAY |
| | OL/OH | ORGANIC SILT |
| | PT | PEAT |
| | Rock | Rock |
| | Sandstone | Sandstone |
| | SC | CLAYEY SAND |
| | SC-SM | SILT, CLAYEY SAND |
| | SHALE | Shale |
| | SILTSTONE | Siltstone |
| | SM | SILTY SAND |
| | SP | Poorly Graded SAND |
| | SP-SC | Poorly Graded SAND with CLAY |
| | SP-SM | Poorly Graded SAND with SILT |
| | SW | Well graded SAND |
| | SW-SC | Well Graded SAND with CLAY |
| | SW-SM | Well Graded SAND with SILT |
| | Topsoil | Topsoil |
| | USGS 601 | Gravel or Conglomerate 1 |
| | USGS 654 | Subgraywacke |
| | USGS 670 | Interbedded Sandstone and Shale |
| | USGS 702 | Quartzite |
| | USGS 705 | Schist |
| | USGS 705 | Schist |
| | USGS 708 | Gneiss |
| | USGS 708 | Gneiss |
| | USGS 718 | Granite 1 |
| | Void | Void |
| | Water | Water |
| | Weathered Rock | Undefined |
| | Water Table during drilling | Water Table during drilling |
| | Water Table after drilling | Water Table after drilling |



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

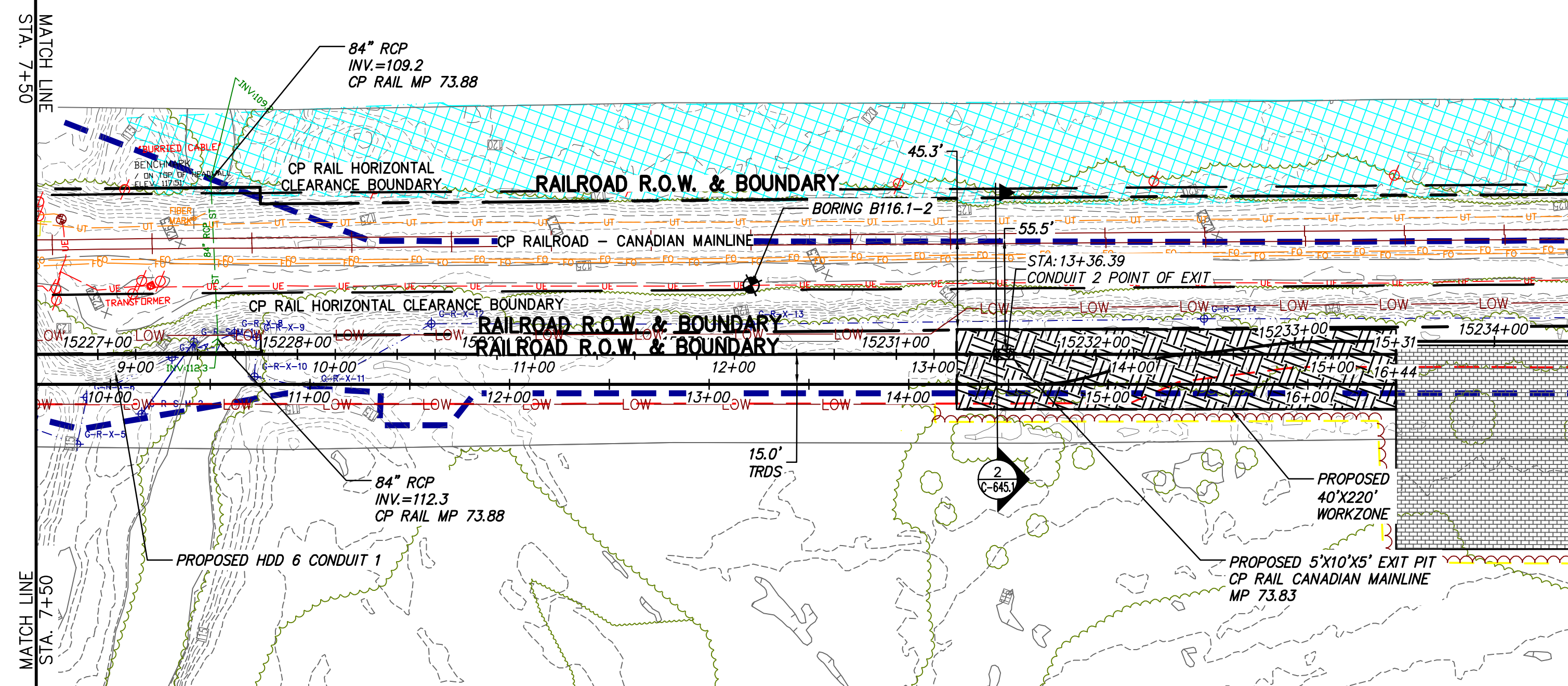
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| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 6, CONDUIT 2**

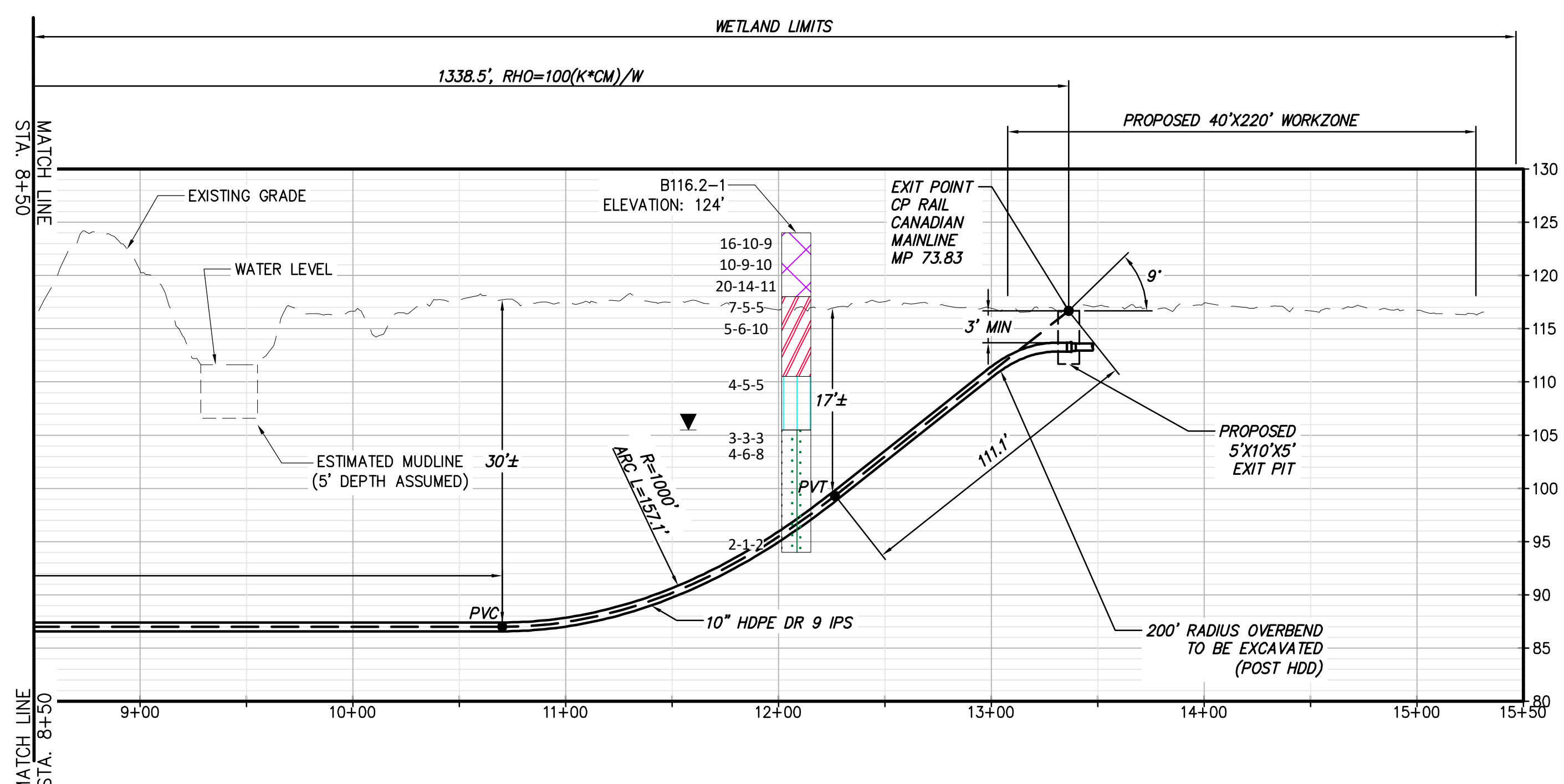
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| REV. NO. | | | | | | | X | | |

| | |
|--------------------|---------------|
| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 086076 |
| DRAWING NO. | C-305A |

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PROPOSED HDD 6 PLAN VIEW
CONDUIT 2



PROPOSED HDD 6 PROFILE
CONDUIT 2

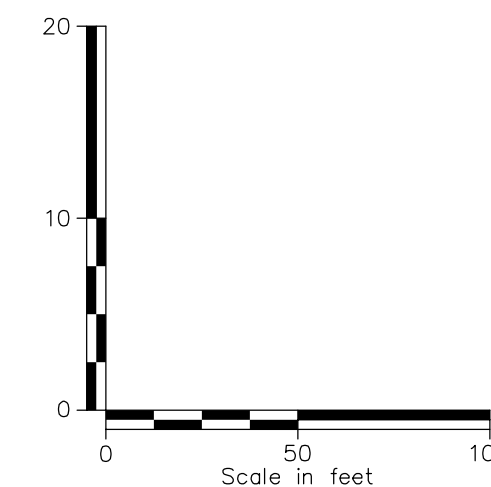
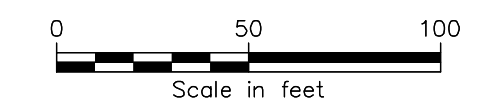
NOTE:
1) THE USE OF CONDUCTOR CASINGS IS RECOMMENDED TO MITIGATE THE POTENTIAL RELEASES OF FRILLING FLUIDS.

BORING LOG STRIP LEGEND

| | |
|---|----------------|
| Blow Counts per 6" = 10-10-10 | B101 |
| Recovery %/RQD % = 95%/90% | 11000psi = UCS |
| 2D strip logs shown at 10x exaggeration | |
| 3D strip logs have no exaggeration | |

Legend

| | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SILL |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoll | Topsoll |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Undefined |
| Water Table | Water Table during drilling |
| Delayed Water Table | Water Table after drilling |



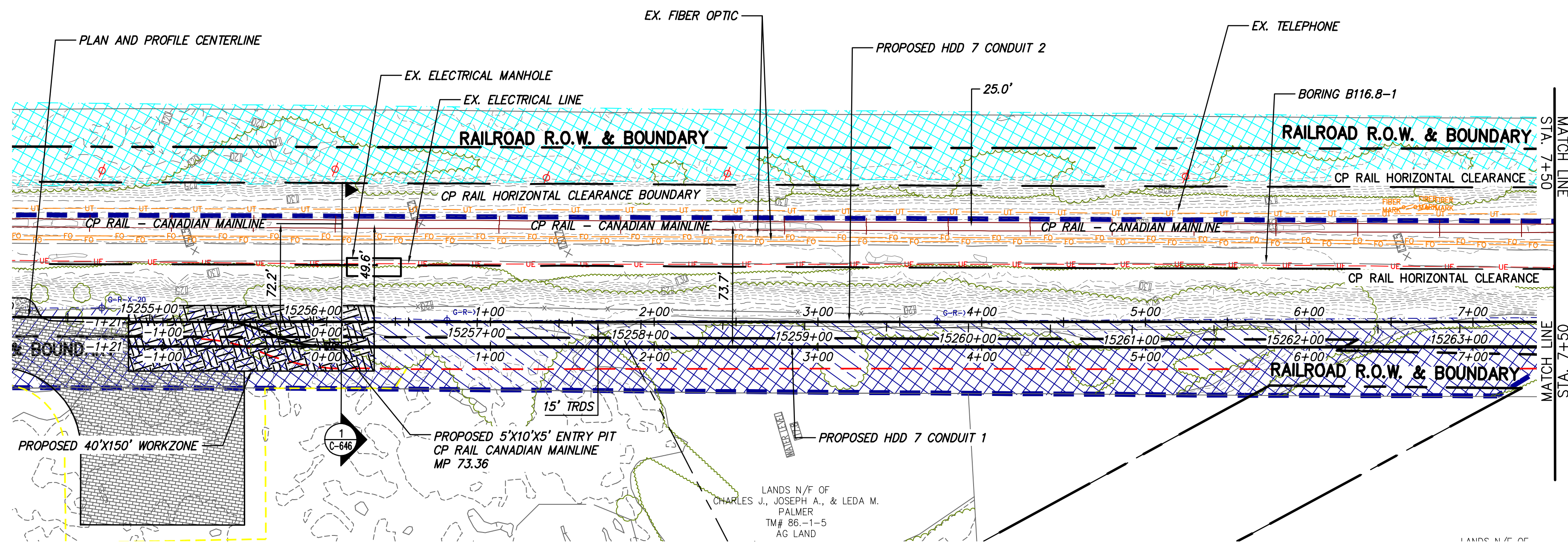
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| | | | | |
|-----|------------|----------------------------------|-----|-----|
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| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |

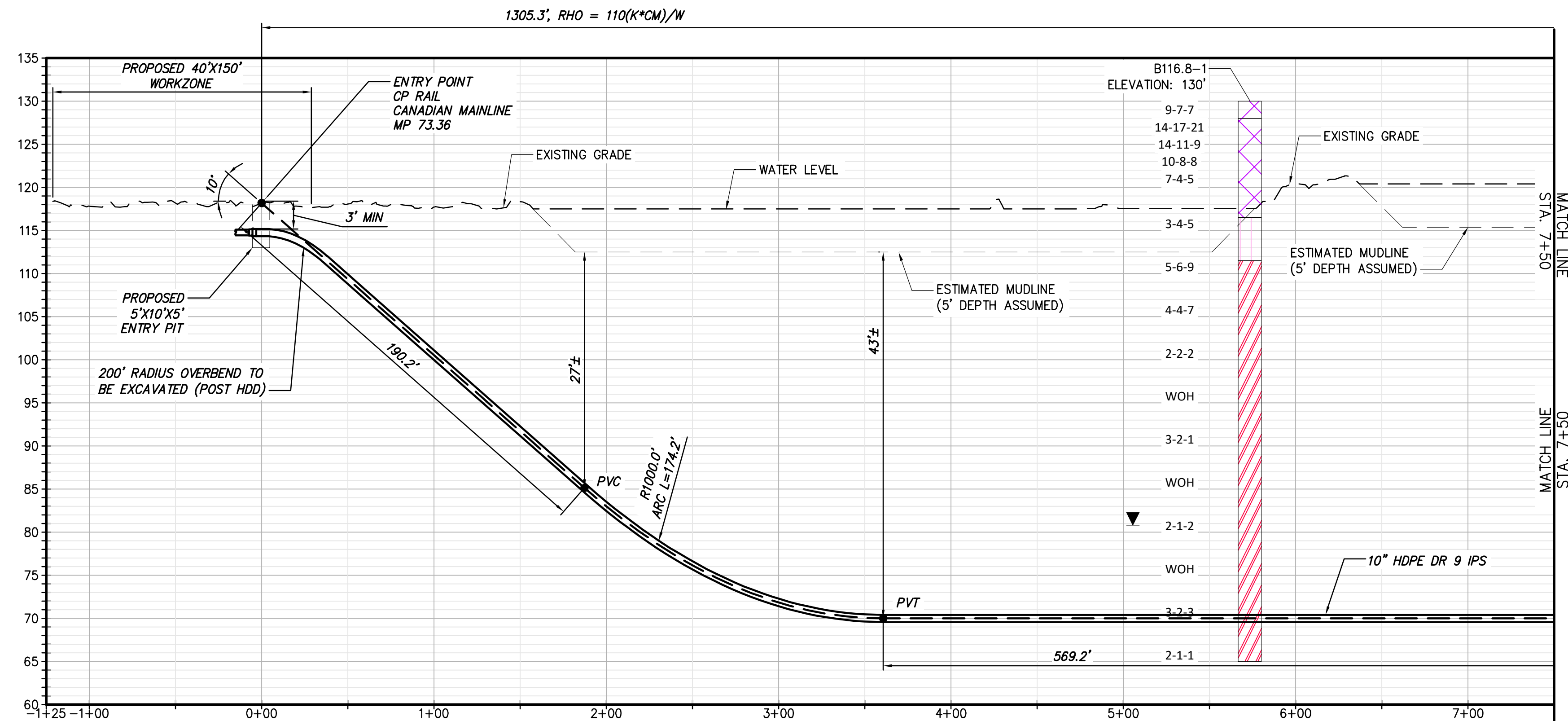
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 6, CONDUIT 2

| | |
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| KIEWIT PROJECT NO. | 21162 |
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| DRAWING NO. | C-305A.1 |
| SCALE | AS NOTED |
| DATE | 12/16/2022 |

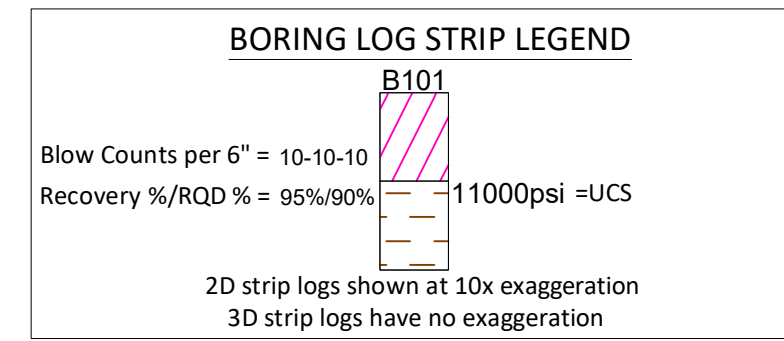
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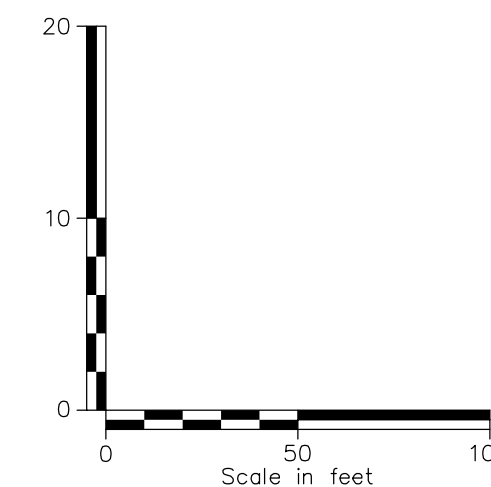
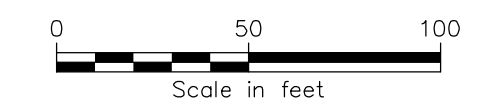
PROPOSED HDD 7 PLAN VIEW
CONDUIT 1



PROPOSED HDD 7 PROFILE
CONDUIT 1



| Legend | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| DH | ORGANIC Fat CLAY |
| DL | ORGANIC Lean CLAY |
| DL/DH | ORGANIC SILL |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
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| Topsoll | Topsoll |
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| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Weathered |
| Water Table | Water Table during drilling |
| Delayed Water Table | Water Table after drilling |



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| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
|-----|------------|----------------------------------|-----|-----|
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |

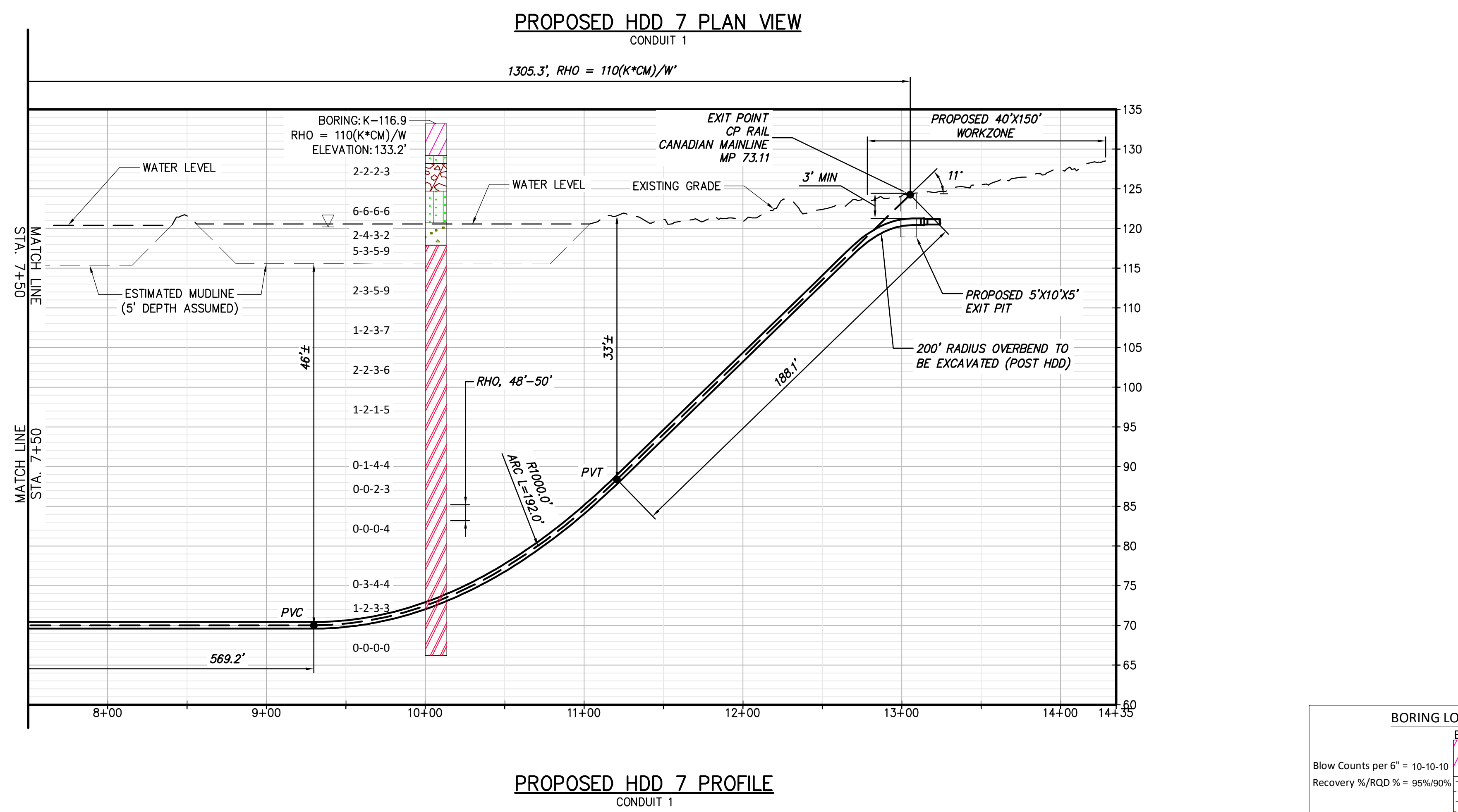
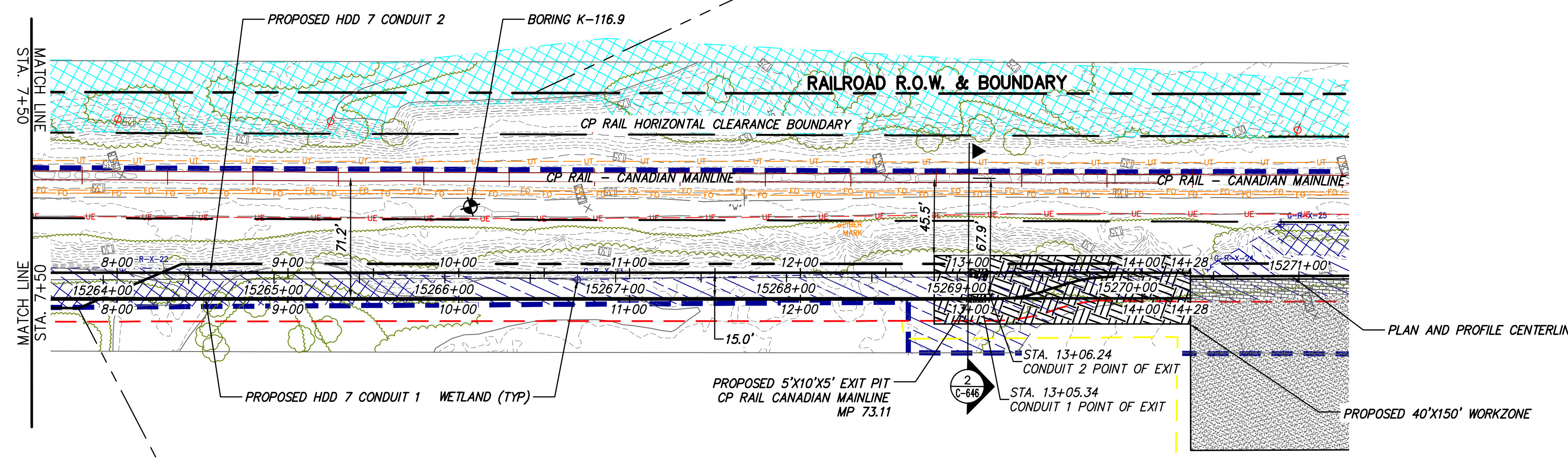
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 7, CONDUIT 1

DRAWN BY: MCS DESIGNED BY: MCS APPROVED BY: JEO SCALE AS NOTED DATE 12/16/2022

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 086076
DRAWING NO. C-306

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LANDS N/F OF
KEITH J. & SHERRY R.
LONGTIN
TM# 86-1-2.1
AG LAND
(SEE TABLE 1.4 ON
SHEET G-011)



BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%

11000psi = UCS

2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

| Legend | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SILT |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
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| Topsoll | Topsoll |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
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| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
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| Water | Water |
| Weathered Rock | Weathered |
| Water Table | Water Table during drilling |
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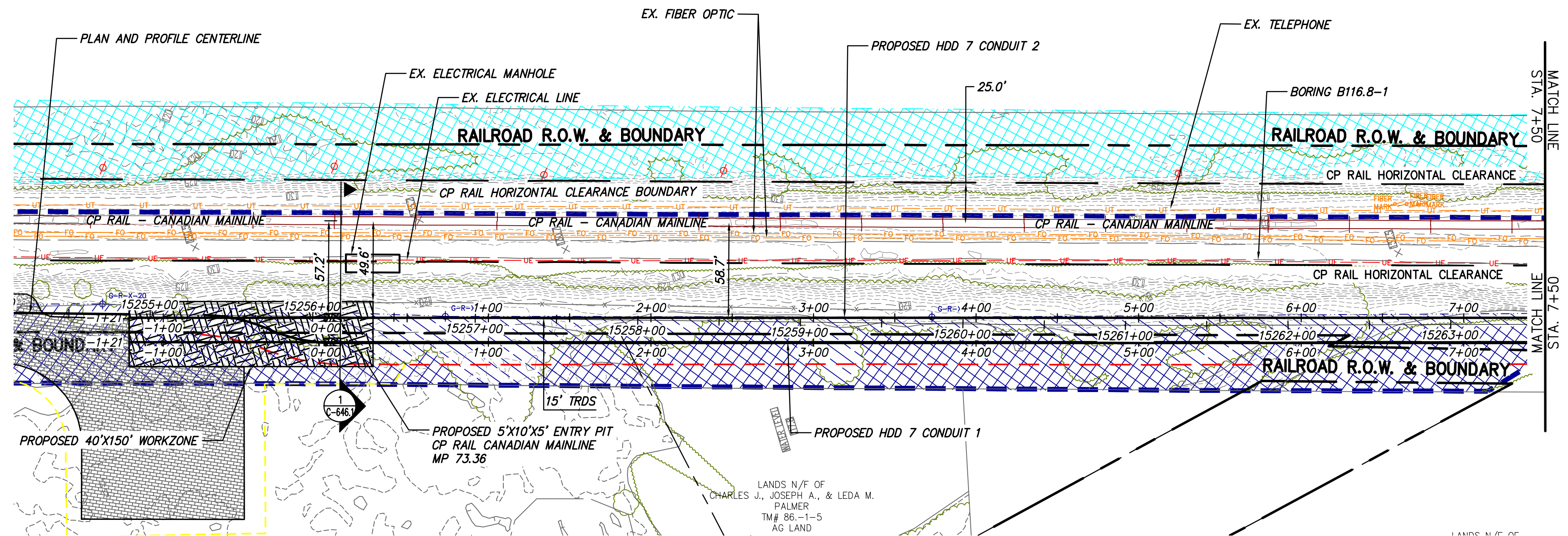
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
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| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 7, CONDUIT 1**

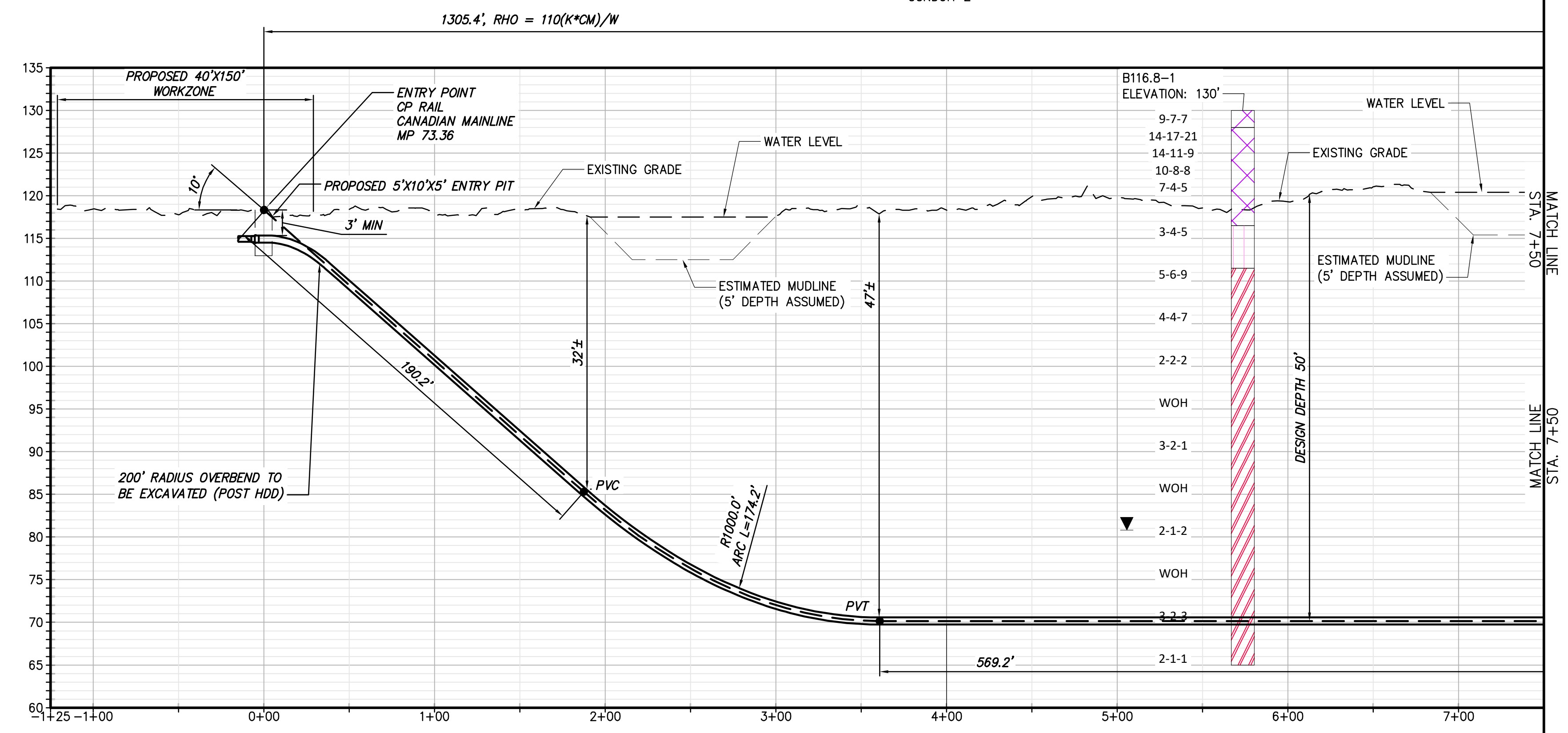
DRAWN BY: MCS DESIGNED BY: MCS APPROVED BY: JEO SCALE: AS NOTED DATE: 12/16/2022

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 086076
DRAWING NO. **C-306.1**

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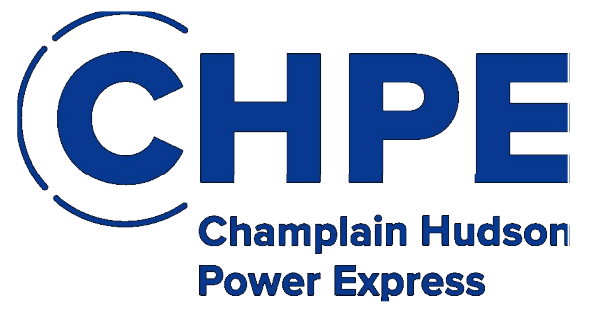
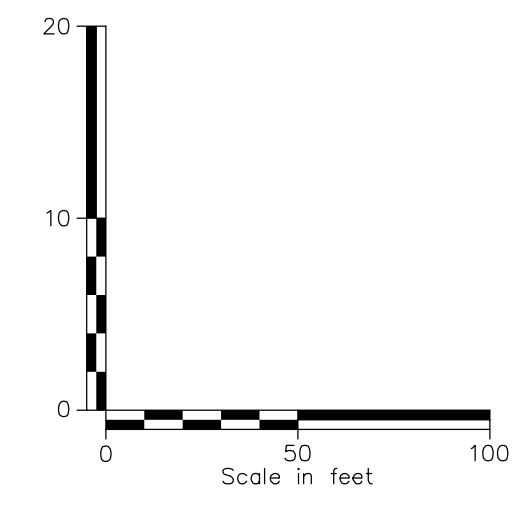
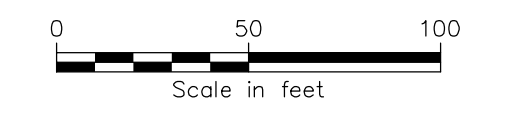
PROPOSED HDD 7 PLAN VIEW CONDUIT 2



PROPOSED HDD 7 PROFILE CONDUIT 2

| Legend | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CDNCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
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| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
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| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SILT |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
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| BORING LOG STRIP LEGEND | |
|---|----------------|
| B101 | |
| Blow Counts per 6" = 10-10-10 | |
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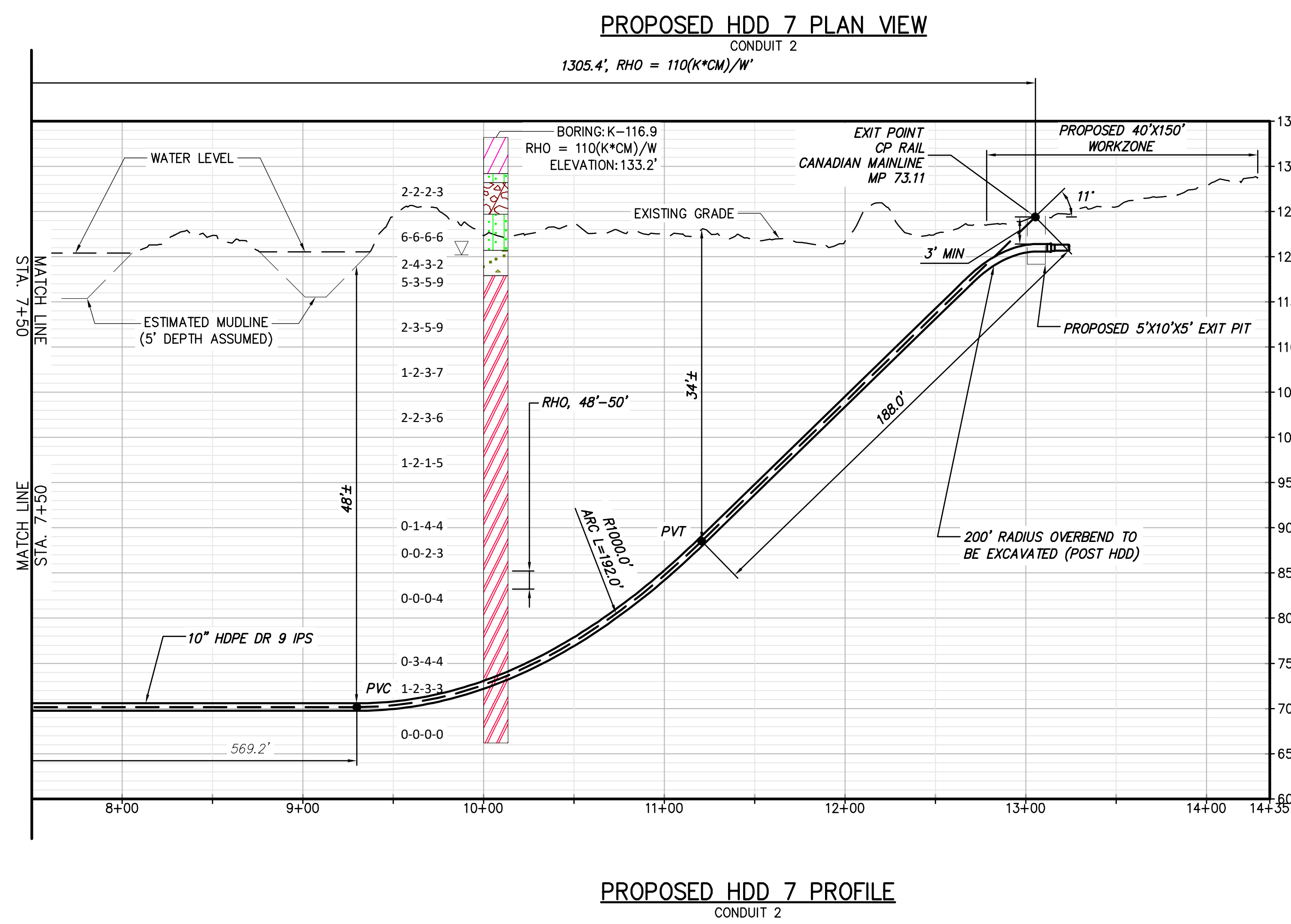
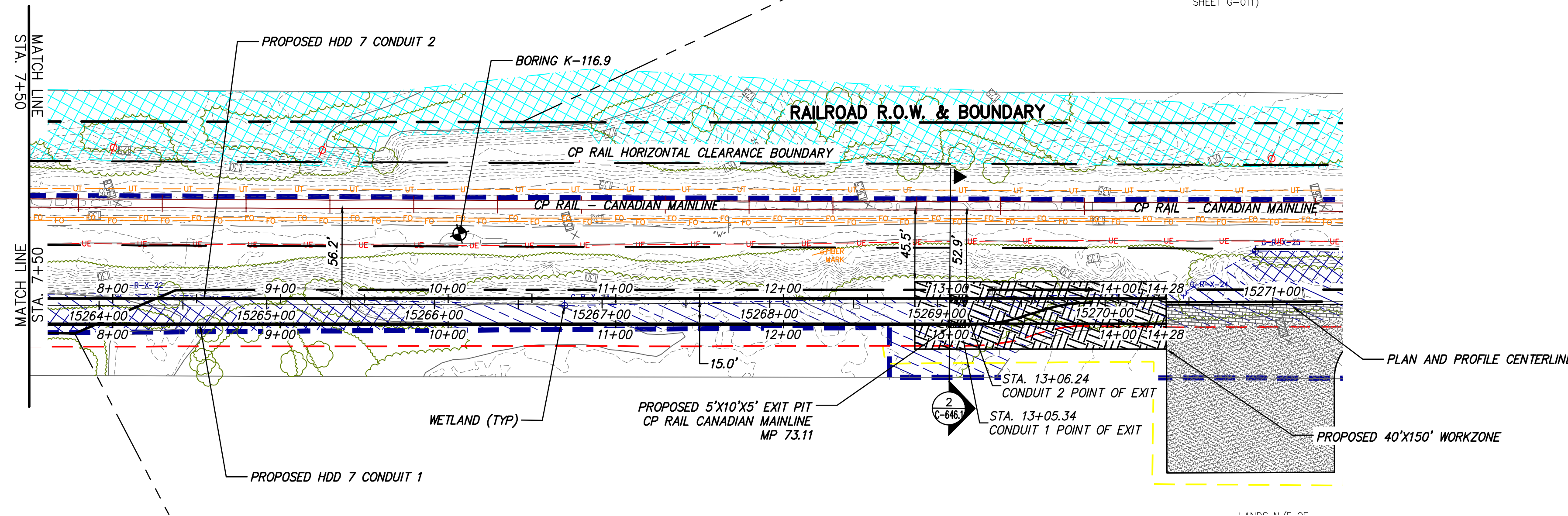
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 7, CONDUIT 2

| | |
|--------------------|------------|
| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 086076 |
| DRAWING NO. | C-306A |
| SCALE | AS NOTED |
| DATE | 12/16/2022 |

DRAWN BY: MCS DESIGNED BY: MCS APPROVED BY: JEO SCALE AS NOTED DATE 12/16/2022

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LANDS N/F OF KEITH J. & SHERRY R. LONGTIN TM# 86-1-2.1 AG LAND (SEE TABLE 1.4 ON SHEET G-011)

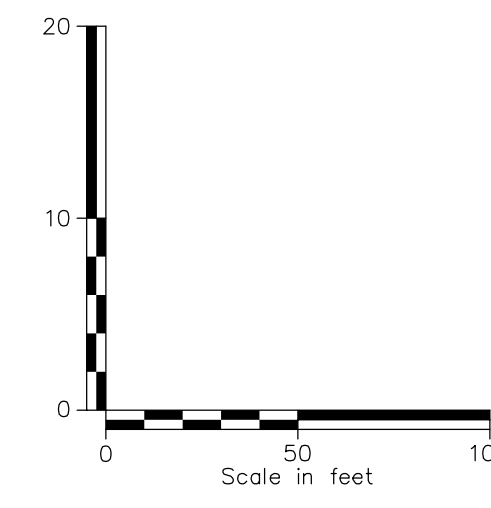
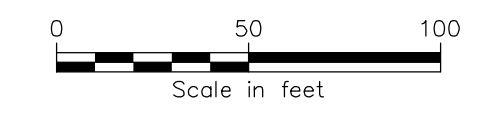


BORING LOG STRIP LEGEND

| | |
|--|---|
| | B101 |
| | Blow Counts per 6" = 10-10-10 |
| | Recovery %/RQD % = 95%/90% |
| | 11000psi = UCS |
| | 2D strip logs shown at 10x exaggeration |
| | 3D strip logs have no exaggeration |

Legend

| | | |
|--|-----------------------------|---------------------------------|
| | ASPHALT | Asphalt |
| | Bedrock | Bedrock |
| | Boulder | Boulder |
| | CH | Fat CLAY |
| | CH-MH | SILTY Fat CLAY |
| | CL | Lean CLAY |
| | CL-ML | SILTY CLAY |
| | CDNCRETE | Concrete |
| | Fill | Fill |
| | GC | CLAYEY GRAVEL |
| | GC-GM | SILTY CLAYEY GRAVEL |
| | GM | SILTY GRAVEL |
| | GP | Poorly Graded GRAVEL |
| | GP-GC | Poorly Graded Gravel with CLAY |
| | GP-GM | Poorly Graded GRAVEL with SILT |
| | GW | Well Graded GRAVEL |
| | GW-GC | Well Graded GRAVEL with CLAY |
| | GW-GM | Well Graded GRAVEL with SILT |
| | Limestone | Limestone |
| | MH | Elastic SILT |
| | ML | SILT |
| | OH | ORGANIC Fat CLAY |
| | OL | ORGANIC Lean CLAY |
| | OL/OH | ORGANIC SILT |
| | PT | PEAT |
| | Rock | Rock |
| | Sandstone | Sandstone |
| | SC | CLAYEY SAND |
| | SC-SM | SILT, CLAYEY SAND |
| | SHALE | Shale |
| | SILTSTONE | Siltstone |
| | SM | SILTY SAND |
| | SP | Poorly Graded SAND |
| | SP-SC | Poorly Graded SAND with CLAY |
| | SP-SM | Poorly Graded SAND with SILT |
| | SW | Well graded SAND |
| | SW-SC | Well Graded SAND with CLAY |
| | SW-SM | Well Graded SAND with SILT |
| | Topsoll | Topsoll |
| | USGS 601 | Gravel or Conglomerate 1 |
| | USGS 654 | Subgraywacke |
| | USGS 670 | Interbedded Sandstone and Shale |
| | USGS 702 | Quartzite |
| | USGS 705 | Schist |
| | USGS 705 | Schist |
| | USGS 708 | Gneiss |
| | USGS 708 | Gneiss |
| | USGS 718 | Granite 1 |
| | Void | Void |
| | Water | Water |
| | Weathered Rock | Undefined |
| | Water Table during drilling | Water Table during drilling |
| | Water Table after drilling | Water Table after drilling |



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

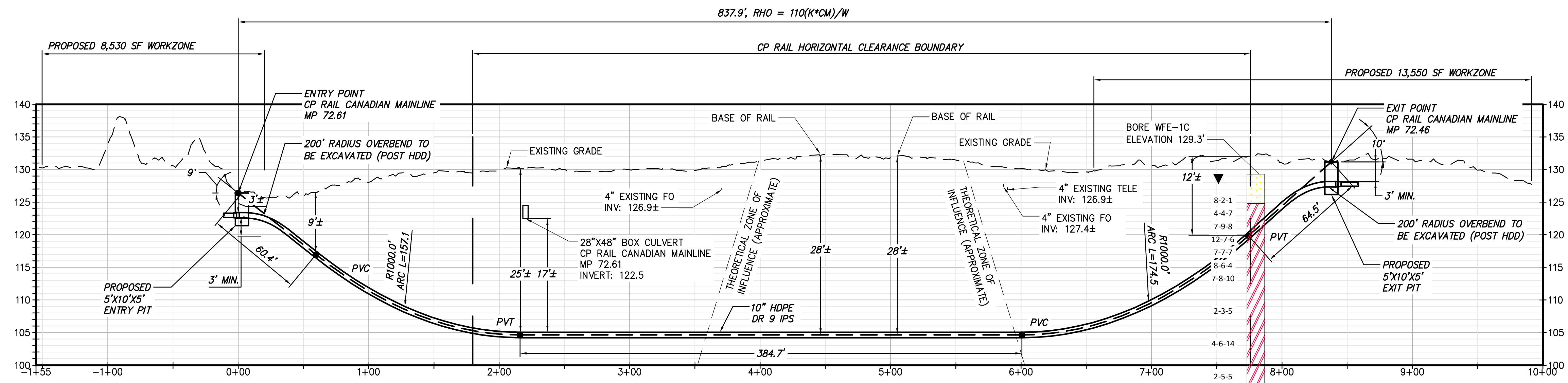
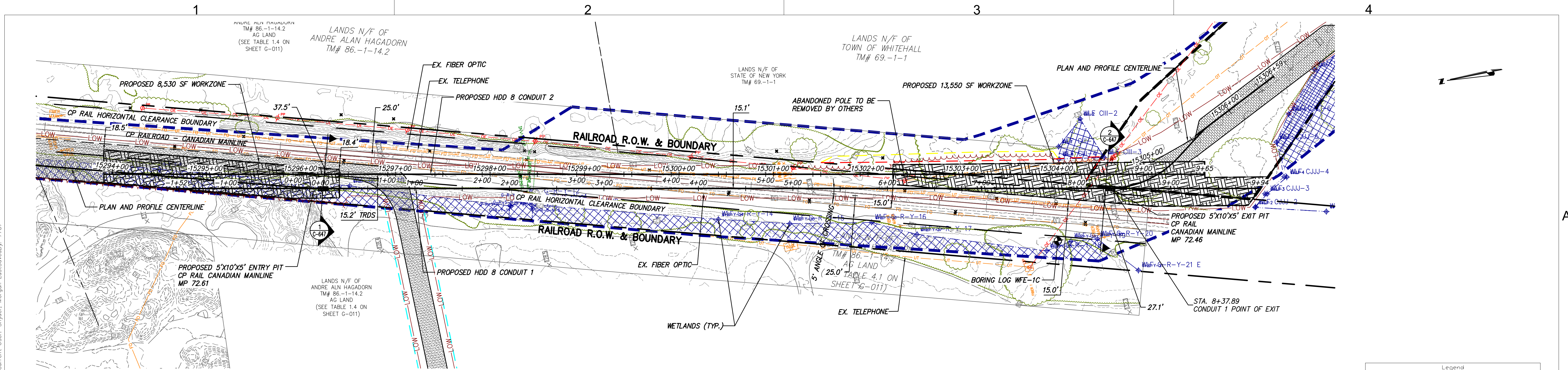
| | | | | |
|-----|------------|----------------------------------|-----|-----|
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO |

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 7, CONDUIT 2**

DRAWN BY: MCS DESIGNED BY: MCS APPROVED BY: JEO SCALE: AS NOTED DATE: 12/16/2022

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 086076
DRAWING NO. **C-306A.1**

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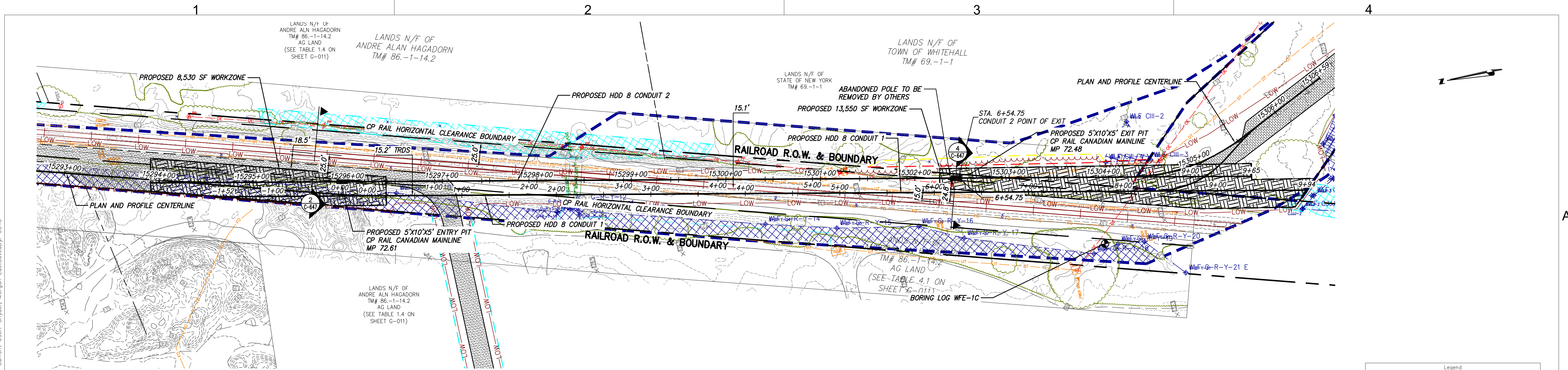
PROPOSED HDD 8 PROFILE
CONDUIT 1

| Legend | |
|---------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CONCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
| GP-GM | Poorly Graded GRAVEL with SILT |
| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SILT |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoll | Topsoll |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Undefined |
| Water Table | Water Table during drilling |
| Delayed Water Table | Water Table after drilling |

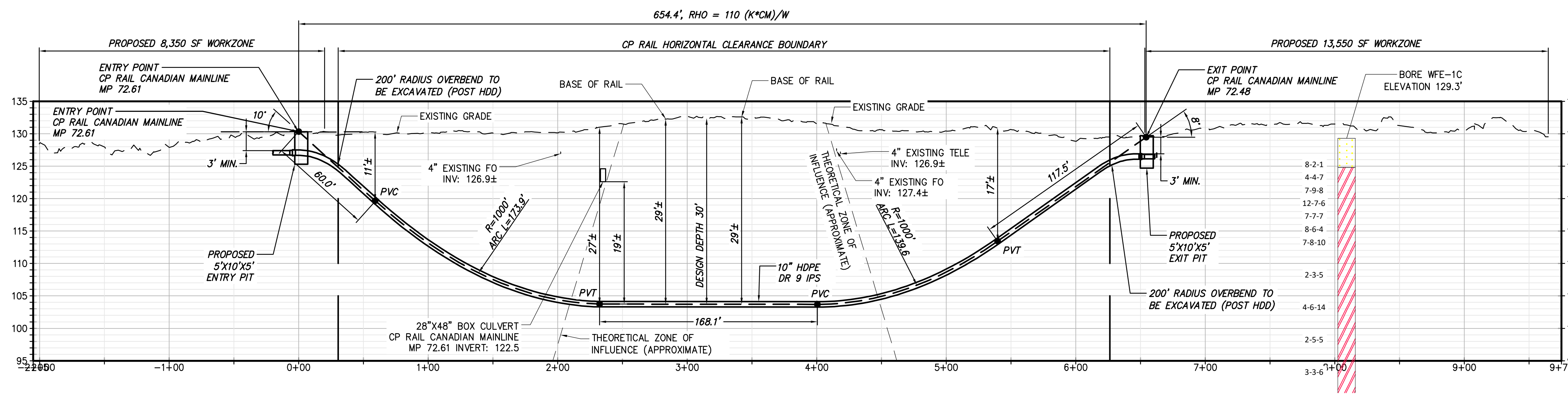


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| CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN PLAN AND PROFILE - HDD 8, CONDUIT 1 | | | | | |
|---|------------|----------------------------------|----------|----------|-----------------|
| KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 086076 DRAWING NO. C-307 | | | | | |
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO | |
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP | |
| DRAWN BY: CKZ DESIGNED BY: CKZ APPROVED BY: JEO | | | SCALE | AS NOTED | DATE 12/16/2022 |
| | | | REV. NO. | X | |

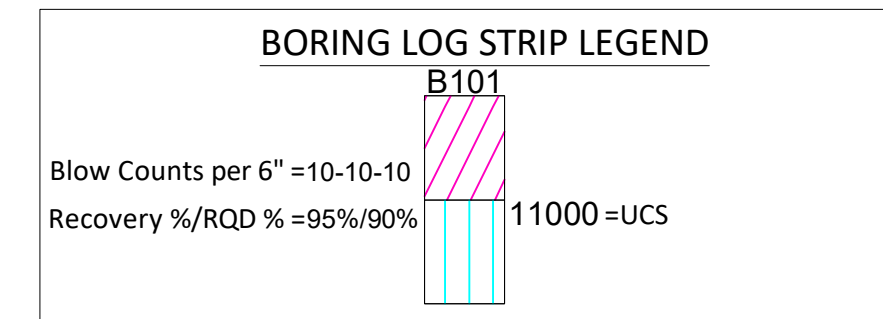


PROPOSED HDD 8 PLAN VIEW
CONDUIT 2



PROPOSED HDD 8 PROFILE
CONDUIT 2

| Legend | |
|-----------------------------|---------------------------------|
| ASPHALT | Asphalt |
| Bedrock | Bedrock |
| Boulder | Boulder |
| CH | Fat CLAY |
| CH-MH | SILTY Fat CLAY |
| CL | Lean CLAY |
| CL-ML | SILTY CLAY |
| CONCRETE | Concrete |
| FILL | Fill |
| GC | CLAYEY GRAVEL |
| GC-GM | SILTY CLAYEY GRAVEL |
| GM | SILTY GRAVEL |
| GP | Poorly Graded GRAVEL |
| GP-GC | Poorly Graded Gravel with CLAY |
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| GW | Well Graded GRAVEL |
| GW-GC | Well Graded GRAVEL with CLAY |
| GW-GM | Well Graded GRAVEL with SILT |
| Limestone | Limestone |
| MH | Elastic SILT |
| ML | SILT |
| OH | ORGANIC Fat CLAY |
| OL | ORGANIC Lean CLAY |
| OL/OH | ORGANIC SOIL |
| PT | PEAT |
| Rock | Rock |
| Sandstone | Sandstone |
| SC | CLAYEY SAND |
| SC-SM | SILT, CLAYEY SAND |
| SHALE | Shale |
| SILTSTONE | Siltstone |
| SM | SILTY SAND |
| SP | Poorly Graded SAND |
| SP-SC | Poorly Graded SAND with CLAY |
| SP-SM | Poorly Graded SAND with SILT |
| SW | Well graded SAND |
| SW-SC | Well Graded SAND with CLAY |
| SW-SM | Well Graded SAND with SILT |
| Topsoil | Topsoil |
| USGS 601 | Gravel or Conglomerate 1 |
| USGS 654 | Subgraywacke |
| USGS 670 | Interbedded Sandstone and Shale |
| USGS 702 | Quartzite |
| USGS 705 | Schist |
| USGS 705 | Schist |
| USGS 708 | Gneiss |
| USGS 708 | Gneiss |
| USGS 718 | Granite 1 |
| Void | Void |
| Water | Water |
| Weathered Rock | Undefined |
| Water Table during drilling | Water Table during drilling |
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| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP | DRAWN BY: | DESIGNED BY: | APPROVED BY: | SCALE | AS NOTED | DATE |
|-----|------------|----------------------------------|-----|-----|-----------|--------------|--------------|-------|----------|------------|
| 0 | 12/16/2022 | FINAL EM&CP SUBMISSION | MCS | JEO | | | | | | 12/16/2022 |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN
PLAN AND PROFILE - HDD 8, CONDUIT 2

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 086076
DRAWING NO. C-307A

A

B

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Appendix F

Proposed Soil Properties for CHPE Segment 3 - Package 1C HDDs

Proposed Soil Properties for CHPE Segment 3 – Package 1C HDDs

| Soil Type | N | Wet unit wgt, pcf | Dry unit wgt, pcf | Bouyant unit wgt, pcf | Φ , ° | Undrained Shear strength, su, psf | Maximum Shear Modulus, psi* |
|---------------------------------------|-------|-------------------|-------------------|-----------------------|------------|-----------------------------------|-----------------------------|
| Loose Sand | 4-10 | 115 | 105 | 53 | 30 | --- | 200 |
| Med. Dense Sand | 10-30 | 125 | 110 | 63 | 34 | --- | 500 |
| V Soft to Soft clay | 0-4 | 100 | 70 | 38 | --- | 450 | 200 |
| Med Stiff Clay (approx. 40 feet deep) | 4-8 | 110 | 80 | 48 | --- | 800 | 300 |
| Stiff Clay (approx. 80 ft deep) | 8-16 | 120 | 100 | 58 | --- | 1200 | 400 |
| Loose Silt | 4-10 | 100 | 80 | 38 | 28 | --- | 50 |
| Med Dense Silt | 10-30 | 110 | 90 | 48 | 32 | --- | 100 |
| Rock Fill/Highly Weather Rock | >50 | 140 | 120 | 80 | 37 | --- | 1000 |
| Jointed Rock Mass – Shale | --- | 170 | 160 | 110 | 37 | 3000 psi | 2000 psi |

- where BoreAid default values are less than these shear moduli, can use the default values, but may tend to be overly conservative.

