

Contract Drawings For

SILICON RANCH CORPORATION

Litchfield Solar

Site Civil Design

HDR Project No.
10243351

Litchfield, Connecticut
ISSUED FOR PERMIT

- 9/30/2020 PROGRESS SET (Not for Construction)
- 1/29/2021 REVISION 1 (Not for Construction)
- 6/25/2021 REVISION 2 (Not for Construction)
- 1/28/2022 REVISION 3 (Not for Construction)
- 5/31/2022 REVISION 4 (Not for Construction)
- 6/29/2022 REVISION 5 (Not for Construction)
- 9/02/2022 REVISION 6 (Not for Construction)
- 12/1/2022 REVISION 7 (Not for Construction)
- 12/7/2023 REVISION 8 (Not for Construction)
- 02/9/2023 REVISION 9 (Not for Construction)
- 4/17/2023 REVISION 10 (Not for Construction)
- 6/09/2023 REVISION 11 (Not for Construction)
- 8/16/2023 REVISION 12 (Not for Construction)
- 9/27/2023 REVISION 13 (Not for Construction) (Sheet C002 Only)

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GENERAL DEMOLITION NOTES:

1. ALL MATERIAL PRODUCED AS A RESULT OF DEMOLITION TO BE DISPOSED OF OFFSITE IN COMPLIANCE WITH ALL STATE, FEDERAL AND LOCAL ENVIRONMENTAL REGULATIONS.
2. CONTRACTOR TO FIELD VERIFY ALL UTILITIES BEFORE START OF DEMOLITION AND PROTECT AS REQUIRED TO COMPLETE DEMOLITION ACTIVITIES.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DEMOLITION OR RELOCATION WITH APPLICABLE UTILITY COMPANIES: GAS, CABLE, POWER, TELEPHONE, WATER, SEWER, ETC.
4. CONTRACTOR TO INSTALL ALL PERIMETER EROSION CONTROLS PRIOR TO COMMENCEMENT OF DEMOLITION.
5. SAW CUT EXISTING ASPHALT TO CLEAN EDGE.
6. DEMOLITION OF FENCING SHALL BE COMPLETED WITH OWNER APPROVAL. TEMPORARY FENCING AND SECURITY FENCING WILL BE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING TIMING AND REQUIREMENTS OF ALL FENCING ESTABLISHMENT TO ENSURE SITE TEMPORARY WAY FINDING IS UP TO DATE PRIOR TO ACCESS CLOSURES. IF PERIMETER FENCING EXISTS AND IS INTACT, CONTRACTOR TO PRESERVE AS POSSIBLE.
7. ALL UTILITIES SHALL BE DEMOLISHED TO NEAREST JOINT WHERE FEASIBLE. CONFIRM PROPER CONNECTIONS WITH ENGINEER IF PIPING MATERIALS ARE TO BE CUT AND JOINED.
8. DEMOLITION OR REROUTE OF EXISTING UTILITIES TO REMAIN SHALL ALLOW FOR CONTINUOUS USE OF THE SYSTEM(S). CONTRACTOR SHOULD PRESERVE EXISTING WATER SERVICE (IE. WATER TAP OR WELL), AND INSTALL BURIED HDPE PIPE AND FROST FREE HYDRANT DIRECTLY INSIDE MAIN ENTRY GATE.
9. CONTRACTOR, PRIOR TO DEMOLITION, SHALL WALK THE SITE WITH THE OWNER AND SPECIFICALLY NOTE ITEMS THAT SHALL BE REMOVED AND HANDED OVER TO THE OWNER.

SEEDBED PREPARATION NOTES:

1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
2. AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP. CONTRACTOR SHALL SUBMIT INTENDED SEED MIX INFORMATION TO OWNER AND RECEIVE OWNER APPROVAL PRIOR TO PROCUREMENT.
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION AT FINISHED GRADES SHOWN SHALL BE REASONABLY SMOOTH AND UNIFORM.
4. SOIL TESTS SHOULD BE TAKEN, AND AMENDMENTS SHOULD BE APPLIED PER SOIL TEST RECOMMENDATIONS.
5. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
6. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
7. MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SPREAD.
8. ALL SLOPES GREATER THAN 2.5:1 SHALL BE STABILIZED WITH JUTE MESH.

EROSION CONTROL NOTES:

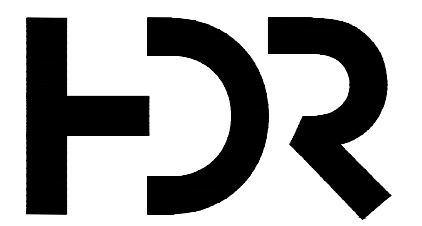
1. ALL EROSION CONTROL MEASURES SHALL BE IN STRICT ACCORDANCE WITH CONNECTICUT EROSION AND SEDIMENT CONTROL STANDARDS.
2. NO ON-SITE BURIAL PITS ARE ALLOWED.
3. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF CONNECTICUT EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
4. GRADING MORE THAN HALF ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE STATE.
5. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN.
6. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED DUE TO FIELD CONDITIONS OR AS DIRECTED BY THE CT DEEP INSPECTOR.
7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
8. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES.
9. ALL MATERIALS REQUIRED FOR CONSTRUCTION OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE AVAILABLE ON SITE BEFORE ANY LAND-DISTURBING ACTIVITY IS BEGUN.
10. LINEAR TREE PROTECTION SHALL BE ORANGE SAFETY FENCE 3' HIGH. TO PROVIDE ADDITIONAL WORKING ROOM, CONTRACTOR MAY COORDINATE WITH THE INSPECTOR TO UTILIZE COMBINATION SILT FENCE WITH ORANGE STRIP ON TOP.
11. IF THE GROUND IS SEMI-FROZEN, PUNCH SEED DISTURBED AREAS (SEED APPLIED INTO THE SOIL), ALLOWING THE SEED TO REMAIN WET AND GERMINATE DURING FAVORABLE WEATHER CONDITIONS.

GENERAL NOTES:

1. PROVIDE SILT FENCE AROUND PERIMETER OF ALL STOCKPILES. STABILIZE IMMEDIATELY UPON ESTABLISHMENT OF PILE.
2. GRADING CONTRACTOR SHALL CHECK/ IDENTIFY FOR ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING THE CLEARING / GRADING.
3. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED DAILY. ALL TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. THE TEMPORARY SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE SEDIMENT REACHES 1/2 OF THE SEDIMENT STORAGE CAPACITY. SILT FENCE SHALL BE CLEANED FROM SEDIMENT WHEN THE SEDIMENT LEVEL IS HALF WAY UP THE SILT FENCE FABRIC.
4. THE CONSTRUCTION ENTRANCE MAY REQUIRE ADDITIONAL STONE TO PREVENT TRACKING.
5. THE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY TRACKING OF SEDIMENT ONTO PAVED ROAD AS SOON AS POSSIBLE, BUT BEFORE THE END OF THE WORK DAY.
6. ALL DEBRIS STOCK PILES SHALL BE REMOVED AND PROPERLY DISPOSED OF IN A LEGAL LANDFILL (I.E. MULCH AND LOG PILES). CONTRACTOR SHALL COMPLY WITH ALL LOCAL ORDINANCES, SURROUNDING PROPERTIES AND COMMUNICATE WITH LOCAL FIRE DEPARTMENTS FOR THE BURNING OF ANY CLEARING DEBRIS.
7. SITE SURVEY DATA IS BASED ON THE FOLLOWING BOUNDARY SURVEYS:
 - 7.1. WILSON ROAD ALTA PREPARED BY PROVOST & ROVERO, INC. DATED 5/18/2018
 - 7.2. FOLLERT ALTA PREPARED BY PROVOST & ROVERO, INC. DATED 4/30/18
 - 7.3. HELD ALTA (ROMANELLA PARCELS) PREPARED BY JAMES ROMANELLA & SONS INC. DATED 7/3/2018
 - 7.4. LIPPINCOTT ALTA, PREPARED BY PROVOST & ROVERO, INC. DATED 4/30/2018
8. CONTROL BASED ON CT STATE PLANE COORDINATES, NAD-83 (2011), US SURVEY FEET.

LITCHFIELD CIVIL QUANTITIES		
ITEM	UNIT	QUANTITY
LIMITS OF DISTURBANCE	ACRES	72.6
PROPERTY AREA	ACRES	281
ROADS	LF	7,792
PERIMETER FENCE	LF	20,294
TREE REMOVAL	ACRES	23.6
CUT VOLUME	CY	73,660
FILL VOLUME	CY	23,108

UTILITY/CIVIL LINE SYMBOLOGY	
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING ELECTRICAL
	EXISTING GAS LINE
	PIPELINE
	LARGE PIPELINE
	UTILITY OVERHEAD LINE
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT
	RIGHT OF WAY
	EXISTING CONTOUR (MINOR)
	PROPOSED CONTOUR (MINOR)
	EXISTING CONTOUR W/ELEVATION (MAJOR)
	PROPOSED CONTOUR (MAJOR)
	EXISTING TREE LINE
	EXISTING FENCE
	PROPOSED SECURITY FENCE
	FLOOD LIMIT (100 YEAR)
	STREAM/CREEK
	100' GULF STREAM BUFFER
	VEGETATIVE BUFFER
	WETLANDS
	LIMITS OF DISTURBANCE
	OUTLET PROTECTION, EMERGENCY SPILLWAY, SKIMMER OUTLET PAD
	SILT FENCE
	GRAVEL TRENCH
	TREE CLEARING
	ALIGNMENT
	25' WETLAND BUFFER
	VERNAL POOL ENVELOPE
	LANDSCAPING
	50' WETLAND SETBACK
	100' WETLAND SETBACK
	DRAINAGE AREA DELINEATION



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

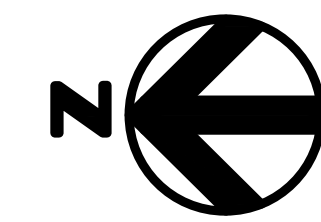
2-298 ROSSI RD
 TORRINGTON, CT 06790, USA
 LAT: 41.794157°N
 LON: 73.168028°W



LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
13	REVISION FOR CLARITY	09/26/23
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23

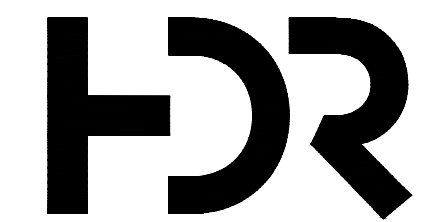
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CIVIL NOTES AND ABBREVIATIONS		
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 09/27/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: NTS
DRAWING NO.		
C002		



0 1" 2"

GENERAL NOTES :

- 1. SOLAR PANEL LAYOUT PROVIDED BY OWNER.



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
 TORRINGTON, CT 06790, USA
 LAT: 41.794157°N
 LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

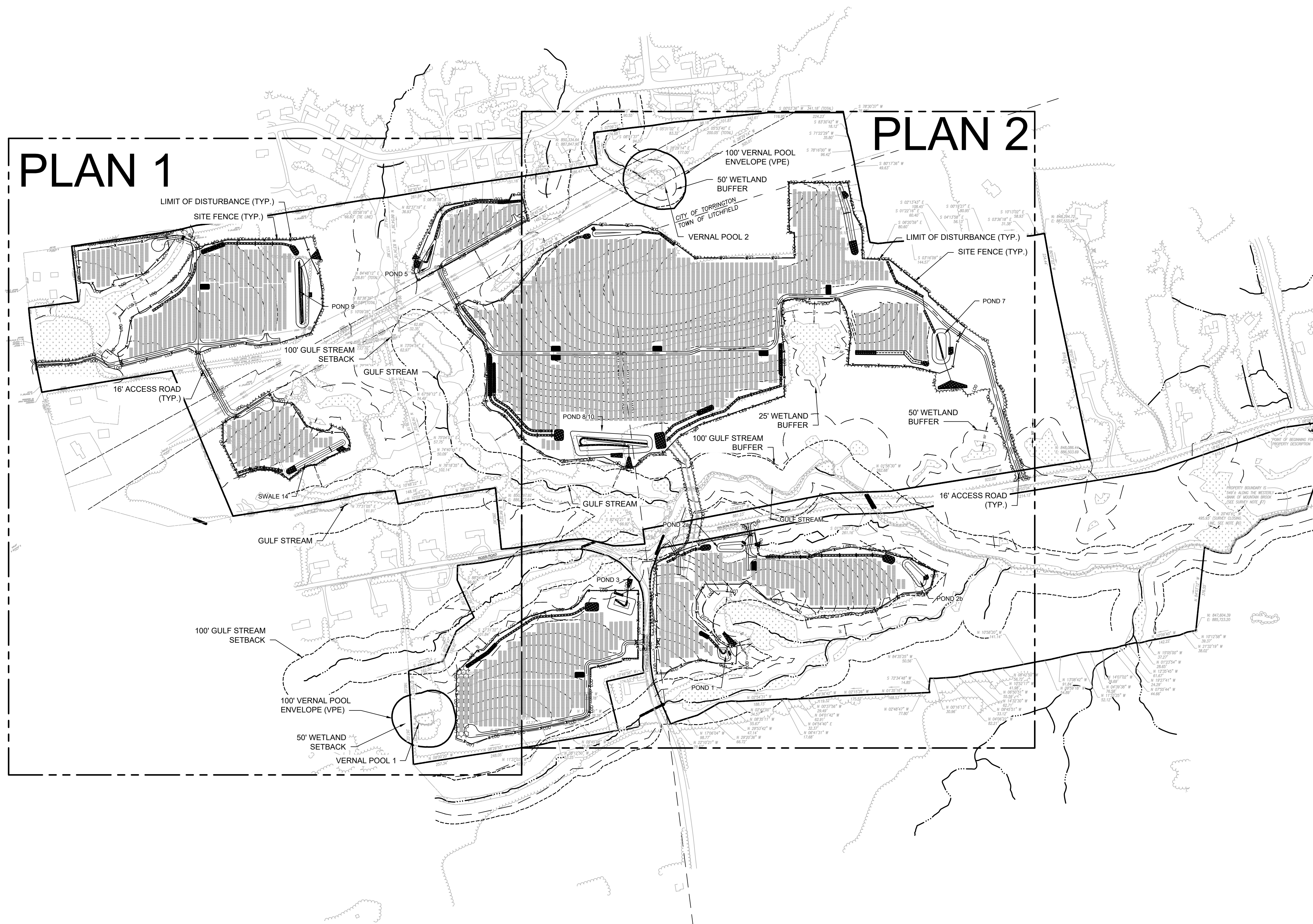
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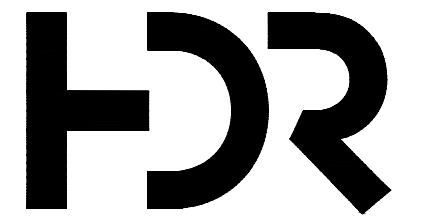
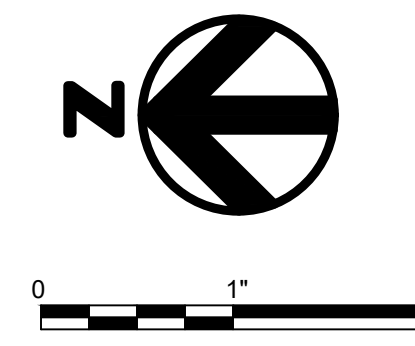
OVERALL SITE PLAN

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=250'

DRAWING NO.

C101





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CONSTRUCTION**

**LITCHFIELD
SOLAR**

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LITCHFIELD, CT

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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

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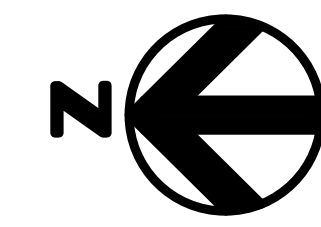
**EXISTING SITE CONDITIONS
AND TOPOGRAPHY**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=200'

DRAWING NO.

C102





0 1" 2"

GENERAL NOTES :

- 1. SOLAR PANEL LAYOUT PROVIDED BY OWNER.



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

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 LON: 73.168028°W



LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

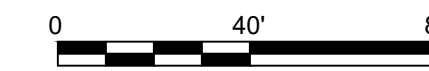
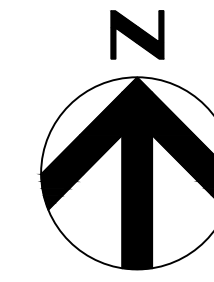
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SOIL DATA MAP AND BORING LOCATIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=250'

DRAWING NO.

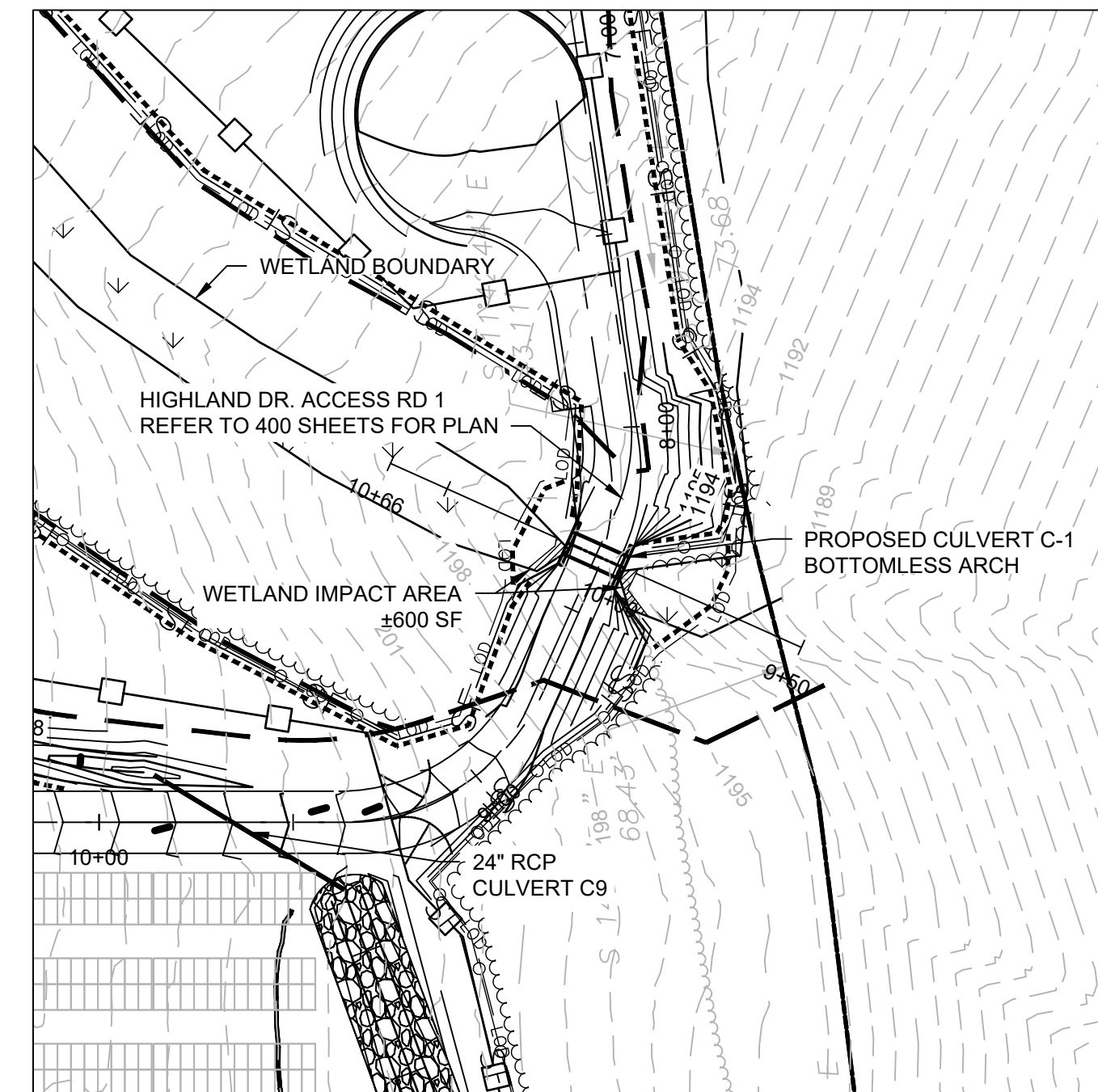
C103





GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.
2. ALL TIE-IN GRADING SLOPES ARE 3H:1V.



CULVERT C-1

Culvert	Est. Peak Flow Q 50-yr (cfs)	Length (ft)	Shape	Span (ft)	Rise (ft)	Area (sf)	Open Area (sf)	OR (Open Area) / Length
C-1	34.03	16	Arch (Bottomless)	6	2' - 4"	14	14.00	0.88



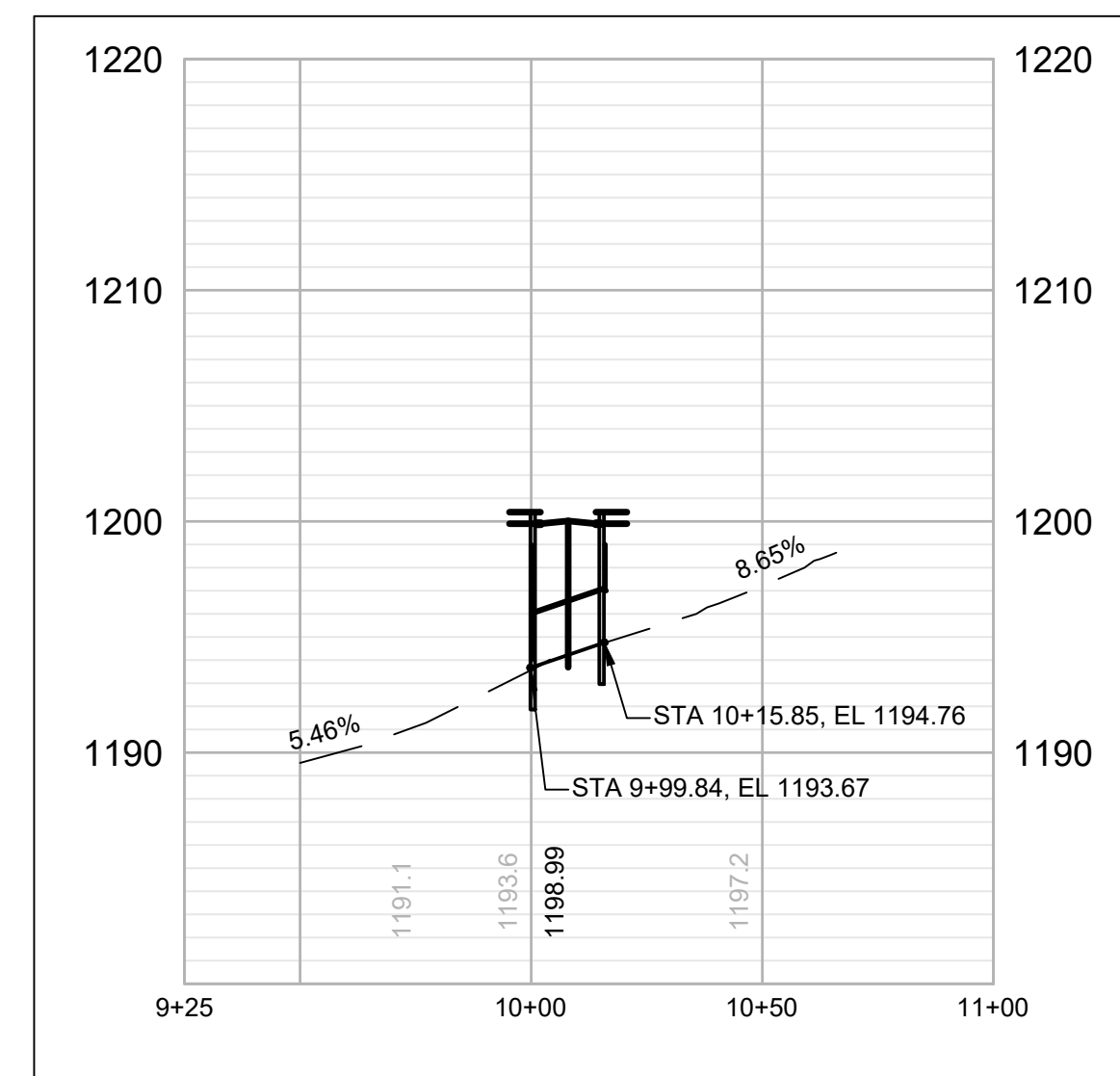
NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

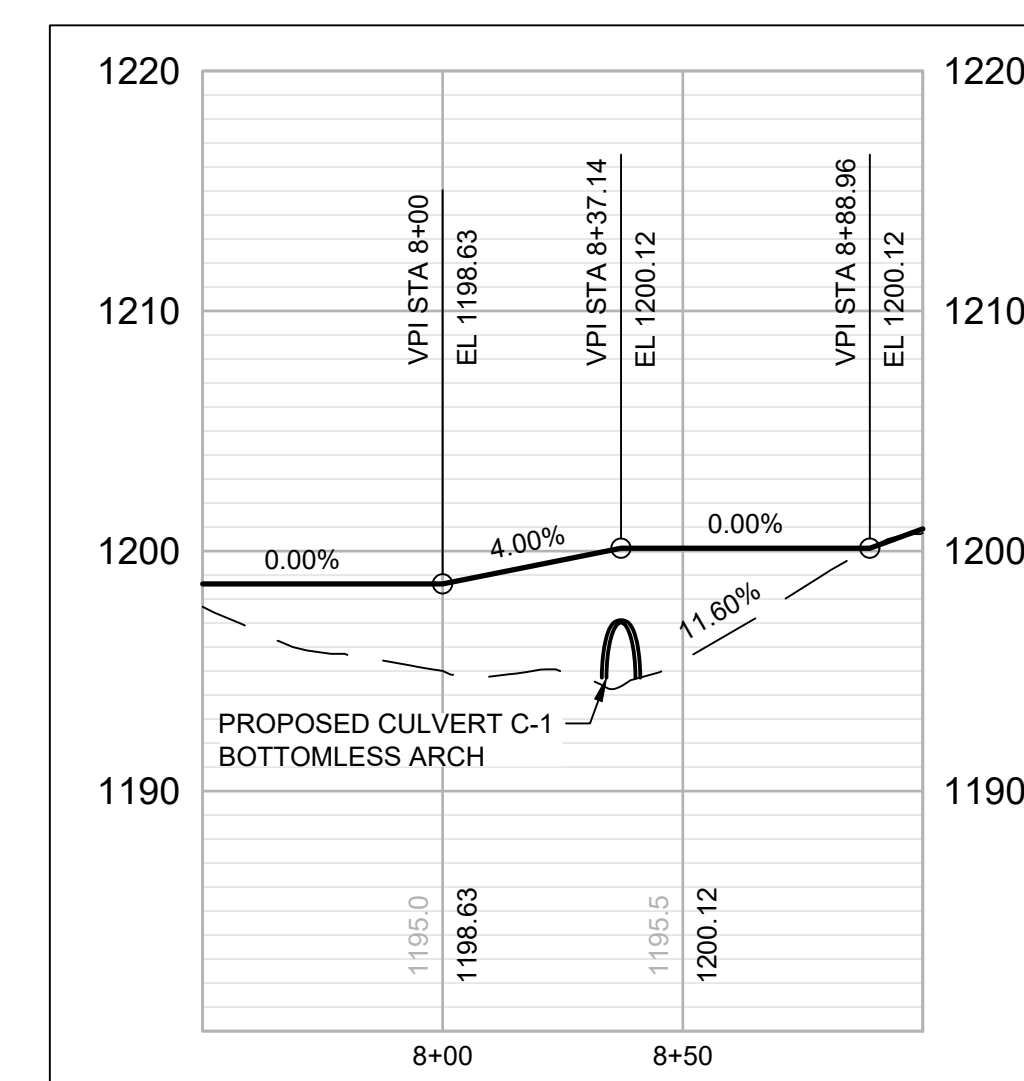
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LITCHFIELD, CT



CULVERT C-1 PROFILE VIEW



ROADWAY PROFILE VIEW

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

WETLAND CROSSING

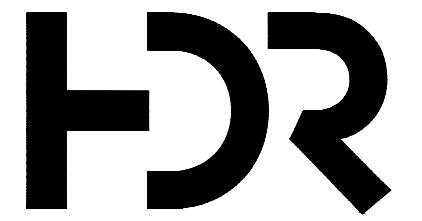
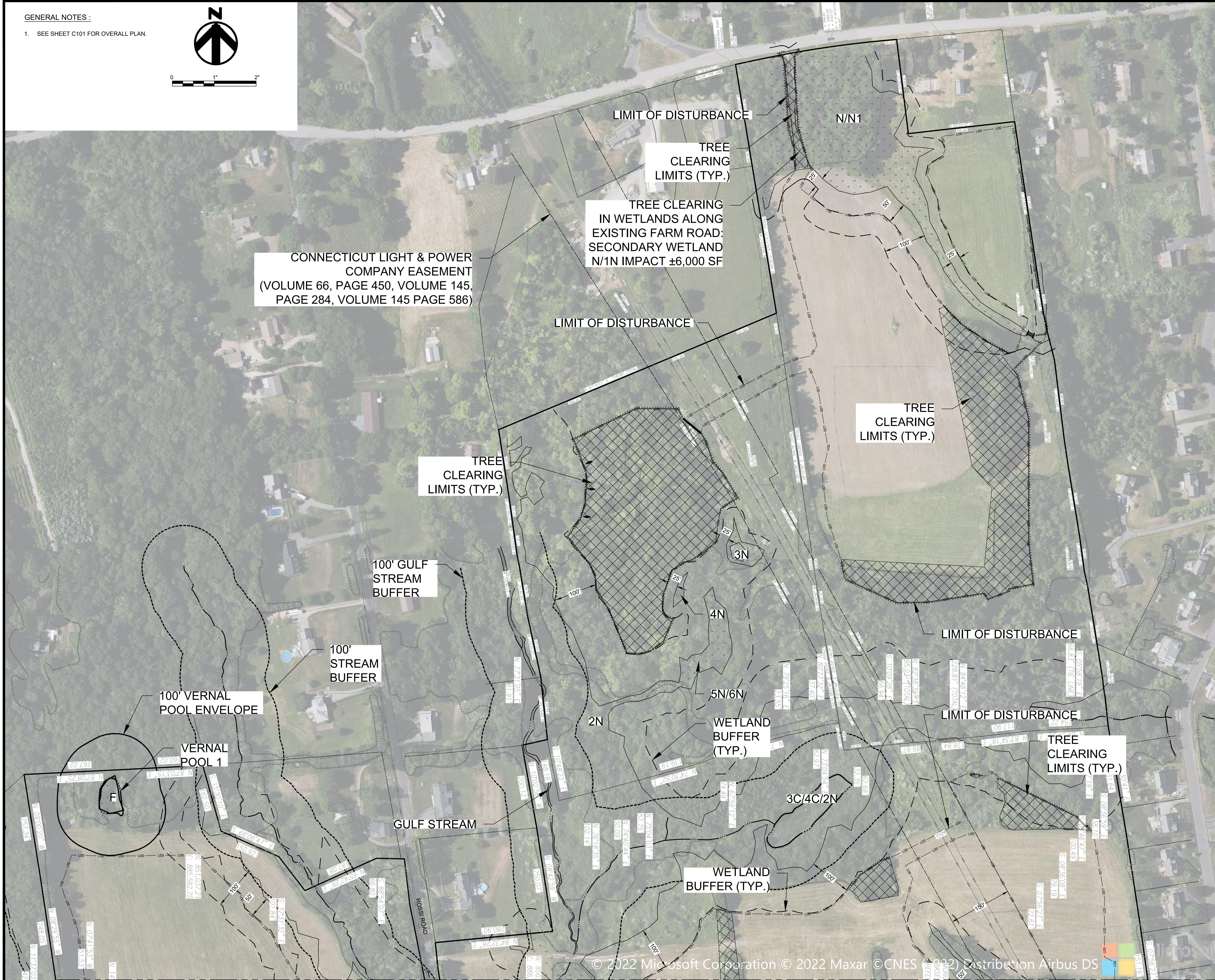
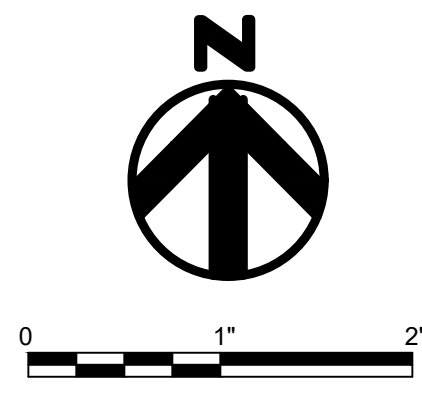
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'

DRAWING NO.

C200

GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.



NOT FOR
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LITCHFIELD
SOLAR

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LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

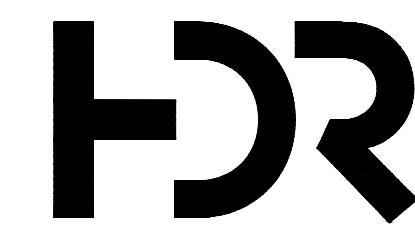
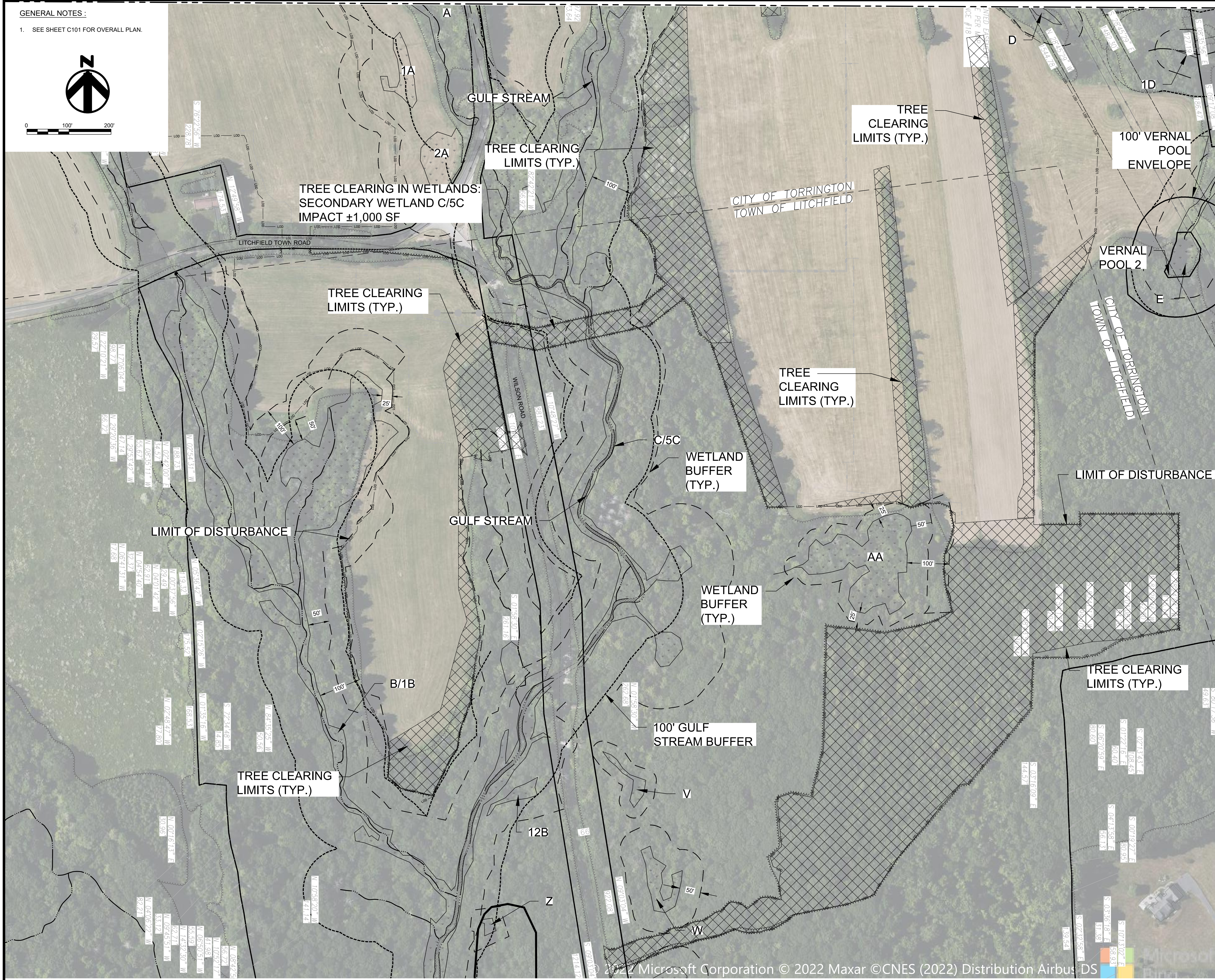
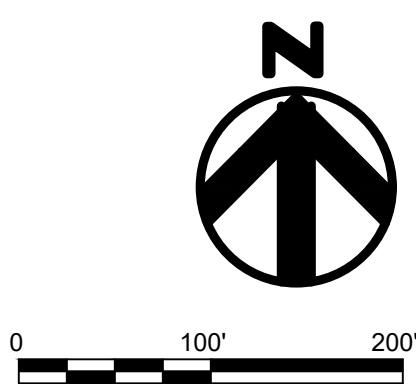
**TREE CLEARING
PLAN 1**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C301

GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.



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LITCHFIELD SOLAR

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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

TREE CLEARING PLAN 2

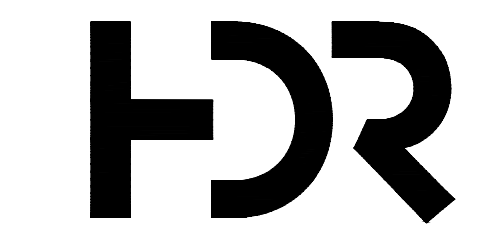
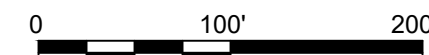
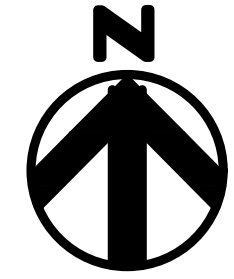
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.

C302

GENERAL NOTES :


1. SEE SHEET C101 FOR OVERALL PLAN.
2. ALL TIE-IN GRADING SLOPES ARE 3H:1V.
3. ALL BASIN SIDE SLOPES ARE 3H:1V.
4. SEE DETAIL 2, SHEET C507 FOR RISER STRUCTURES. SEDIMENT BASIN CMP RISERS AND BARRELS WILL BE REMOVED AND REPLACED WITH CONCRETE 4'X4' STRUCTURES AND RCP BARRELS.
5. ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT.
6. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADE DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



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LITCHFIELD, CT

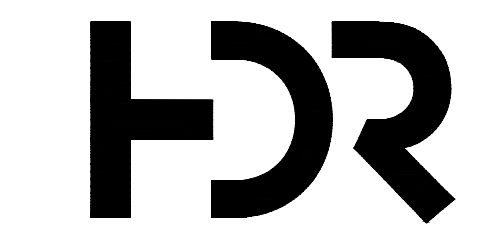
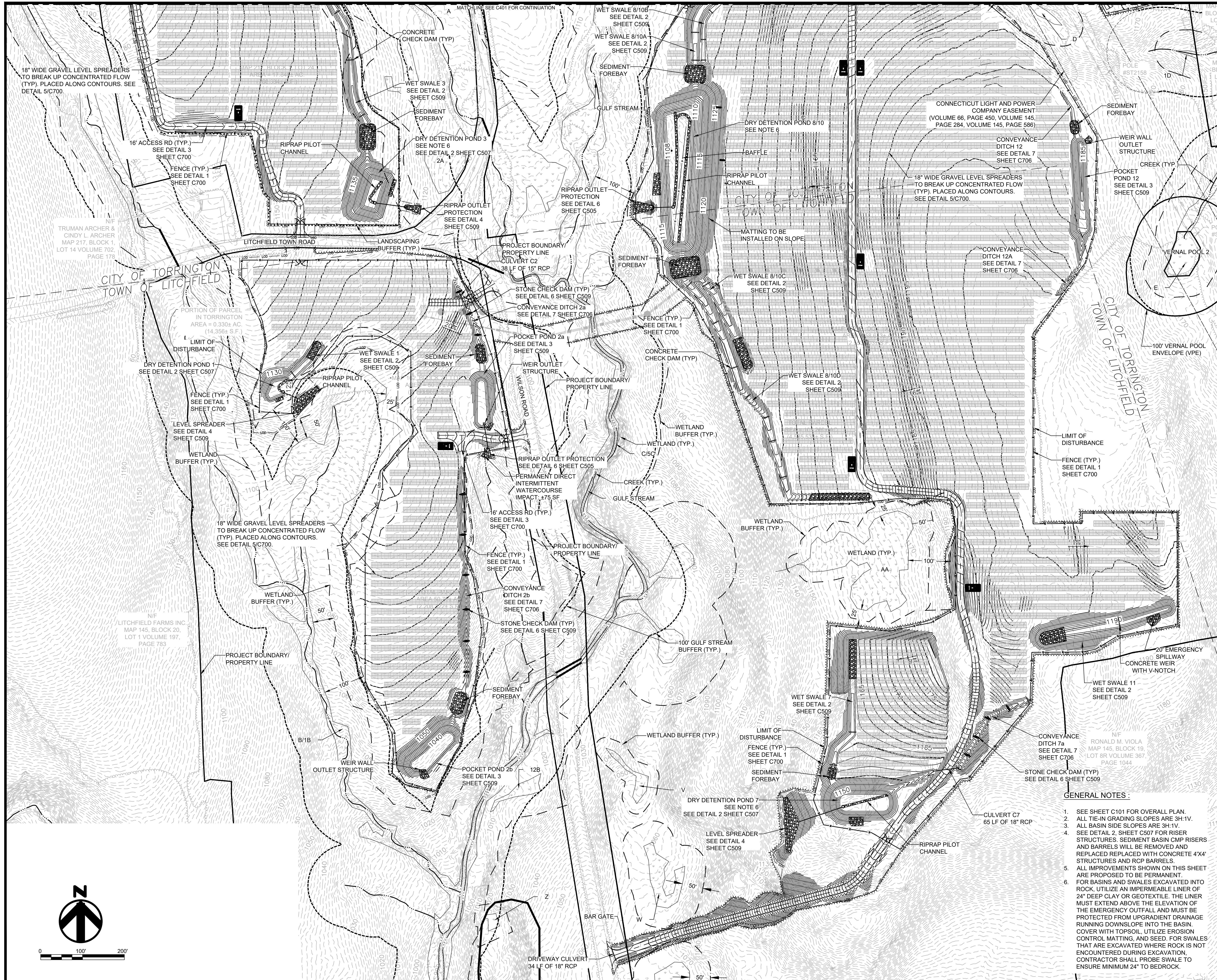
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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

**ARRAY GRADING AND
DRAINAGE PLAN 1**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO. **C401**



**NOT FOR
CONSTRUCTION**

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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

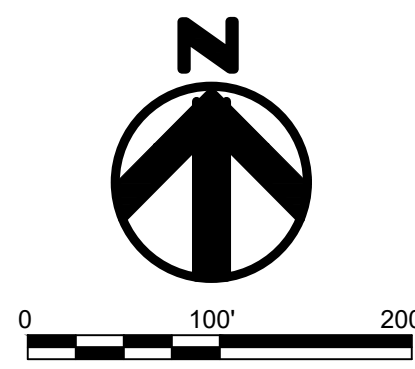
**ARRAY GRADING AND
DRAINAGE PLAN 2**

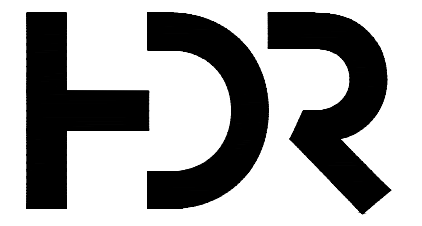
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.

C402

- GENERAL NOTES:**
- SEE SHEET C101 FOR OVERALL PLAN.
 - ALL TIE-IN GRADING SLOPES ARE 3H:1V.
 - ALL BASIN SIDE SLOPES ARE 3H:1V.
 - SEE DETAIL 2, SHEET C507 FOR RISER STRUCTURES. SEDIMENT BASIN CMP RISERS AND BARRELS WILL BE REMOVED AND REPLACED WITH CONCRETE 4'x4' STRUCTURES AND RCP BARRELS.
 - ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.





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LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



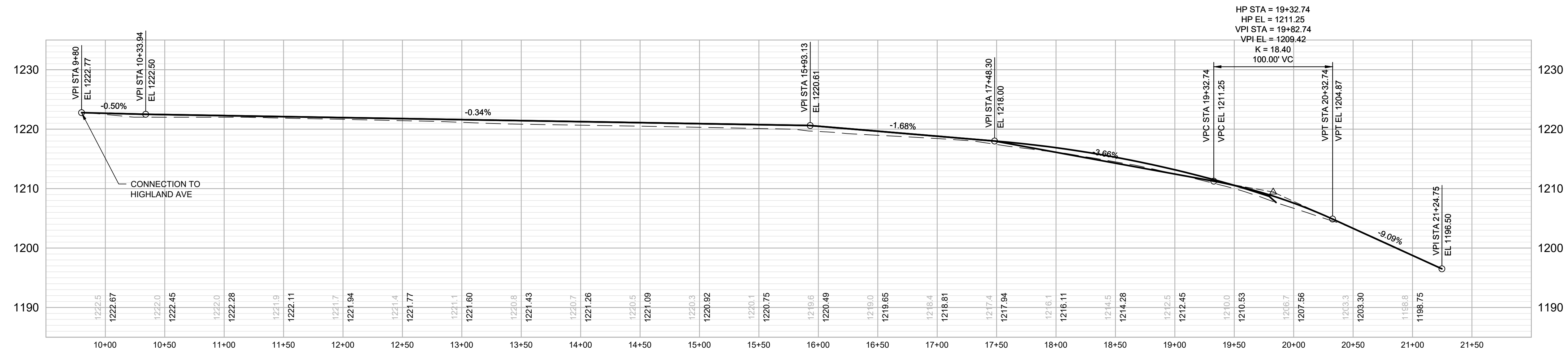
LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
ACCESS ROAD PROFILES 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

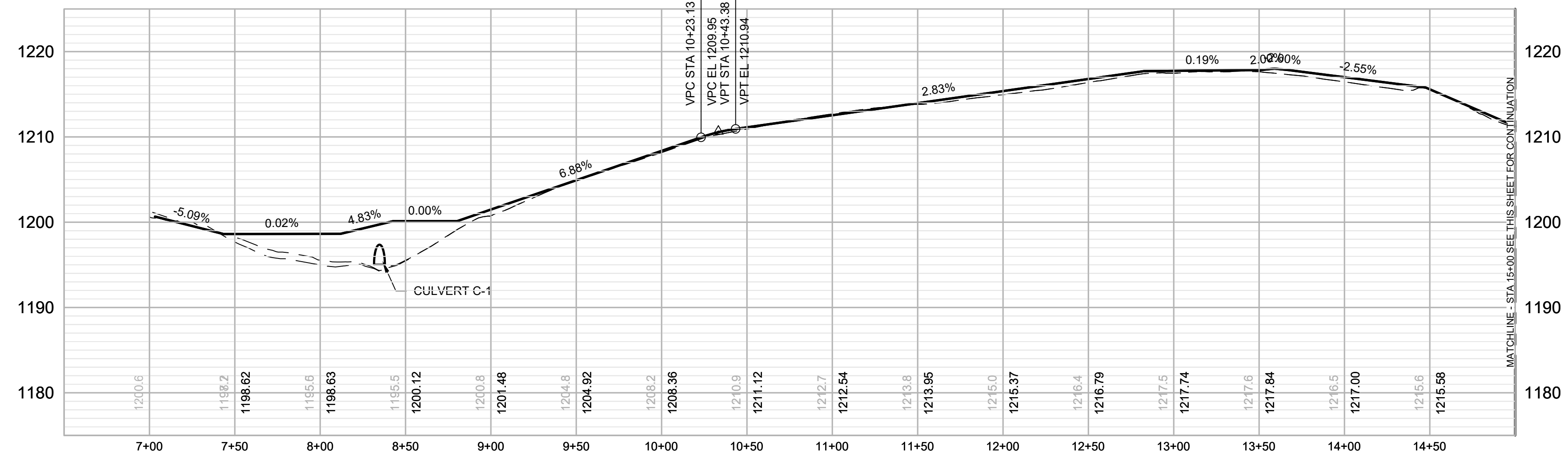
C403



**PROFILE VIEW
HIGHLAND DR. ACCESS ROAD 1**

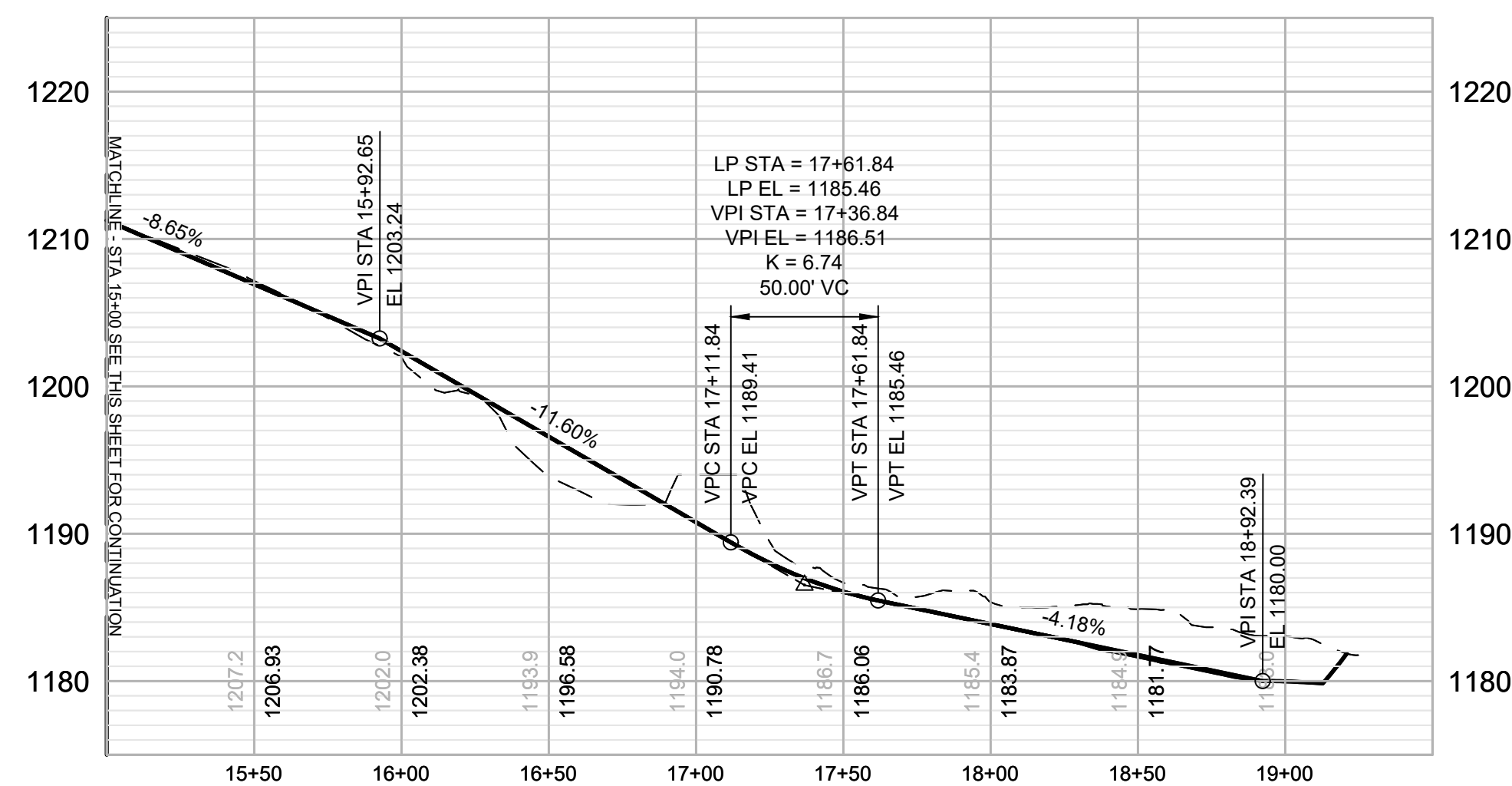
STATION 9+80 TO 21+96.09
H: 1"=50', V: 1"=10'

HP STA = 10+43.38
HP EL = 1210.94
VPI STA = 10+33.25
VPI EL = 1210.65
K = 5.00
20.24' VC



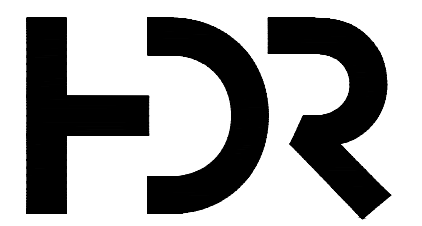
**PROFILE VIEW
HIGHLAND DR. ACCESS ROAD 1.1**

STATION 7+00 TO 15+00
H: 1"=50', V: 1"=10'



**PROFILE VIEW
HIGHLAND DR. ACCESS ROAD 1.1**

STATION 15+00 TO 18+92.39
H: 1"=50', V: 1"=10'



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LON: 73.168028°W



LITCHFIELD, CT

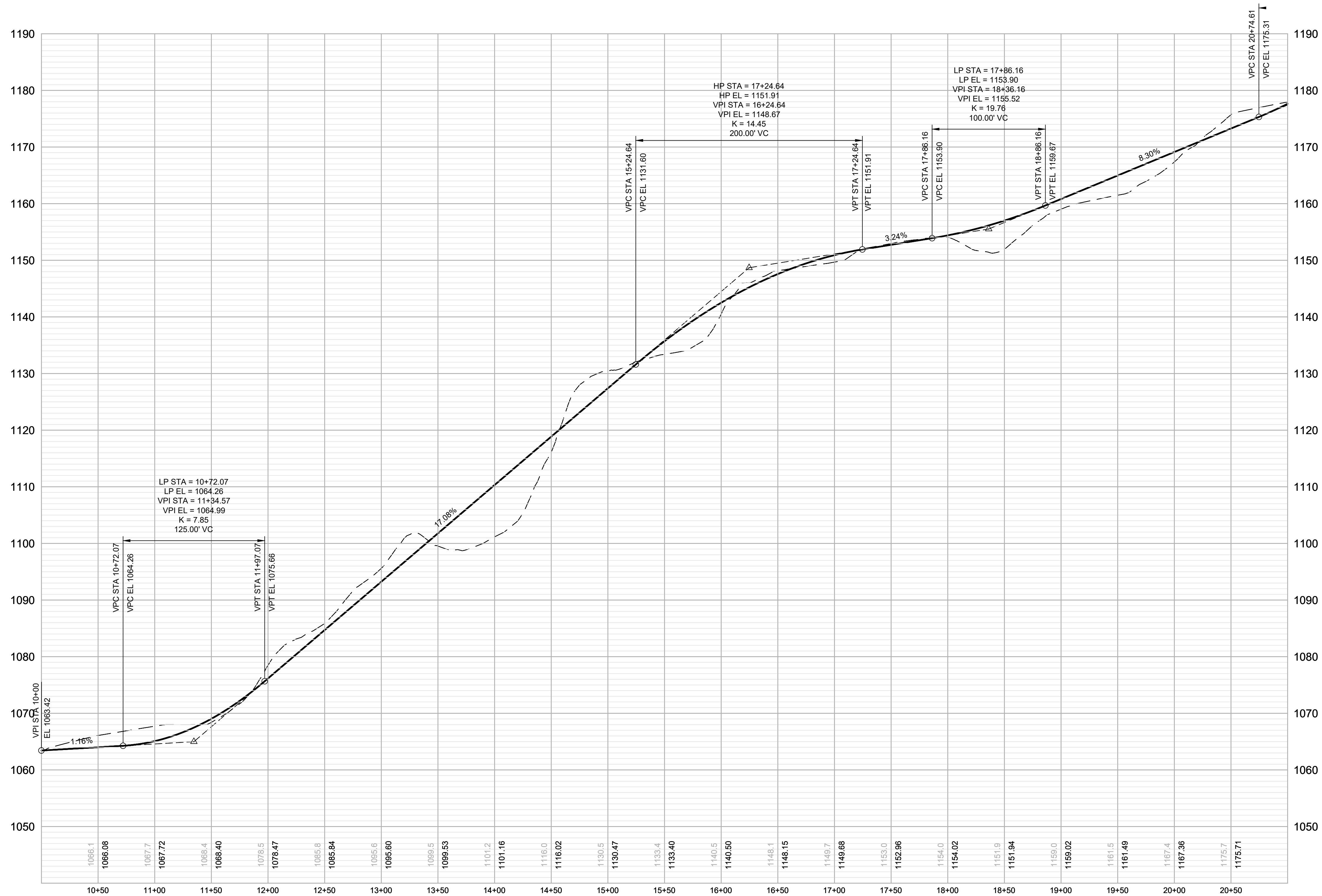
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11	RE-ISSUED FOR PERMIT	06/09/23
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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

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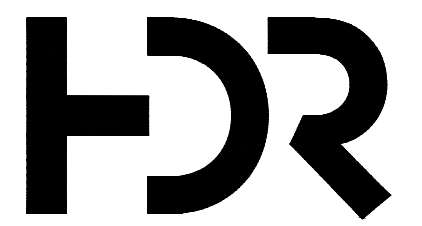
ACCESS ROAD PROFILES 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C404



PROFILE VIEW
ROSSI RD. ACCESS ROAD 1.1
STATION 10+00 TO 21+00
H: 1"=50', V: 1"=10'



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LON: 73.168028°W



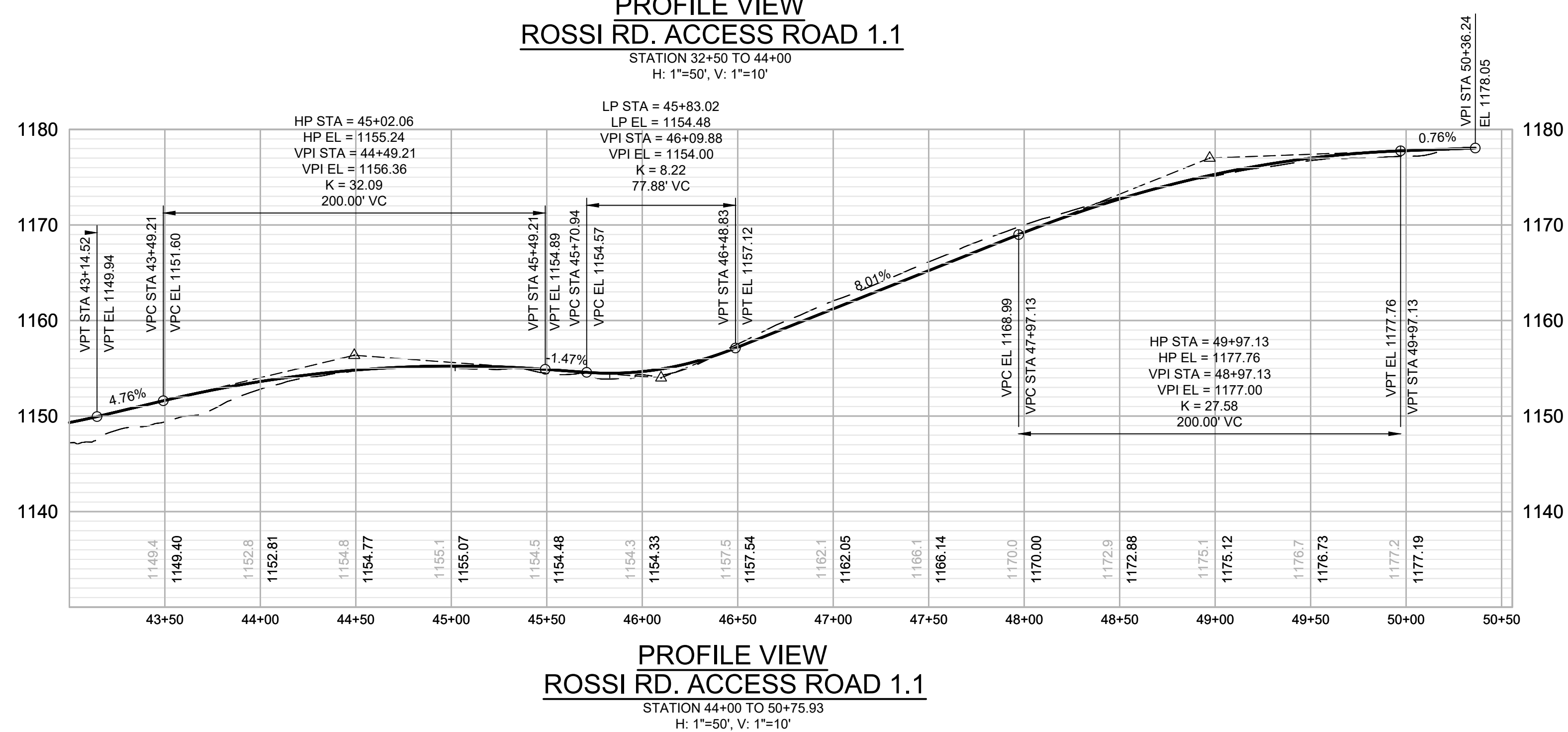
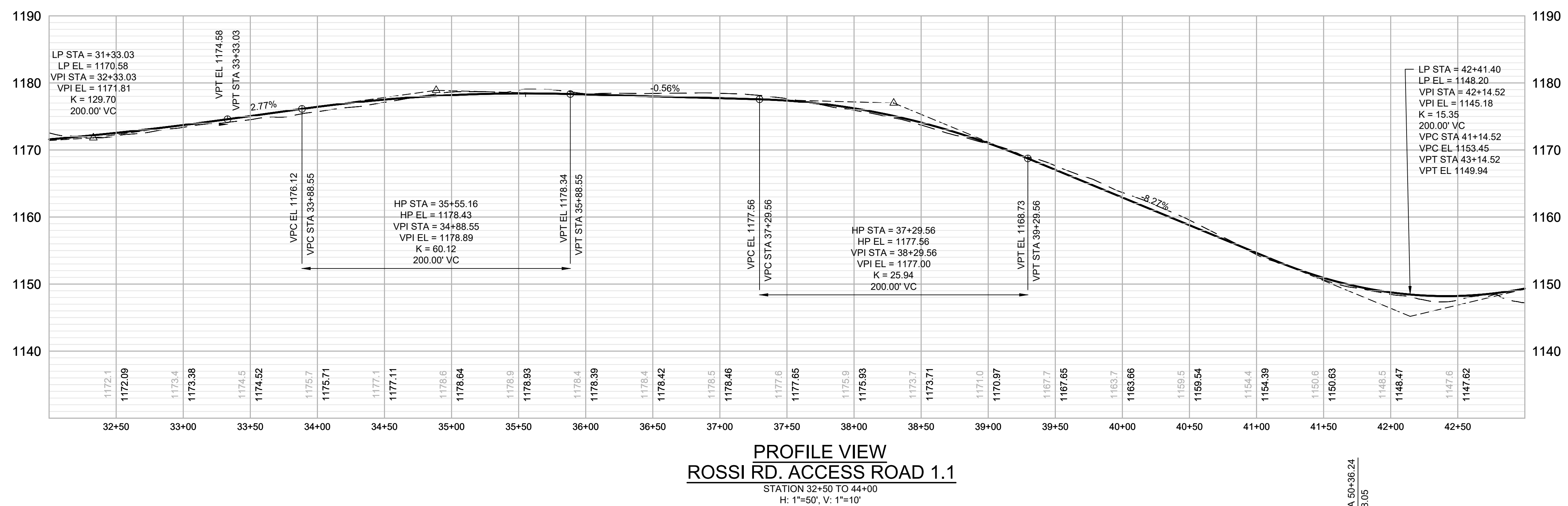
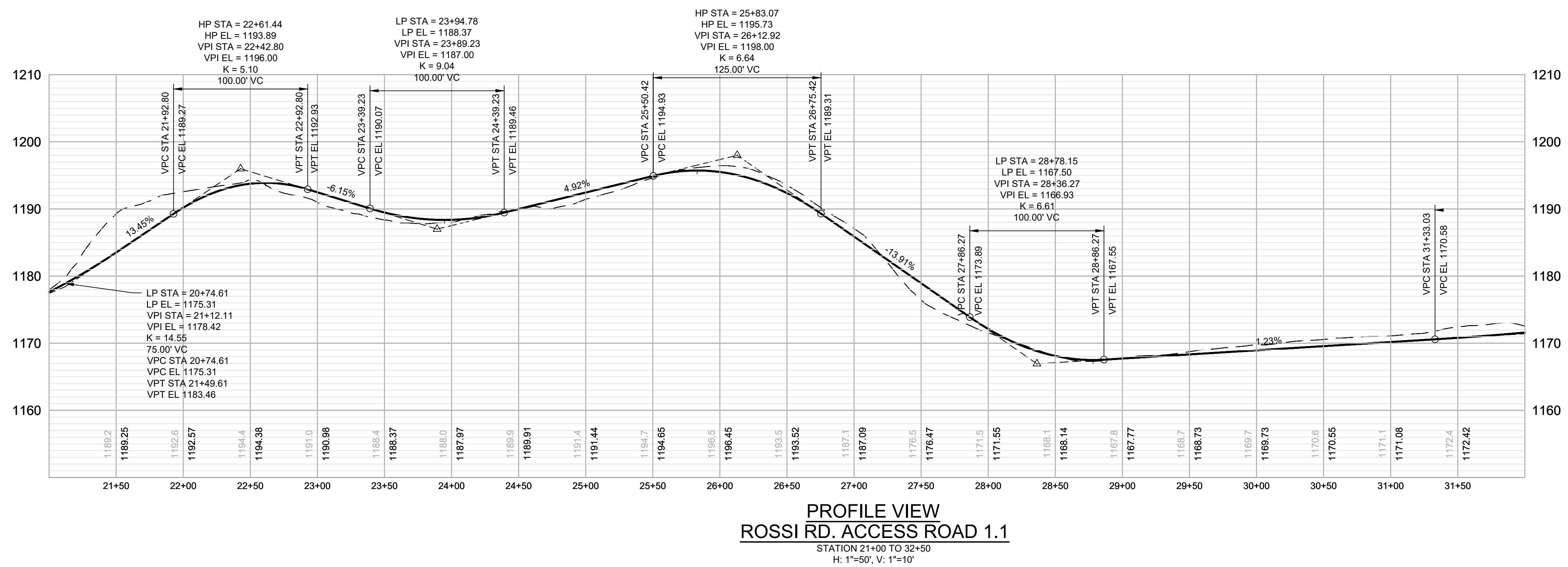
LITCHFIELD, CT

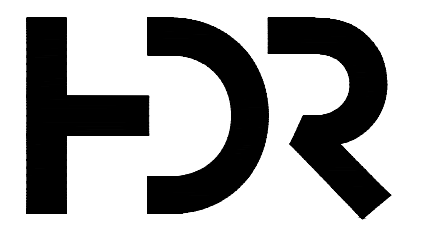
REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
ACCESS ROAD PROFILES 3

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.
C405





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REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

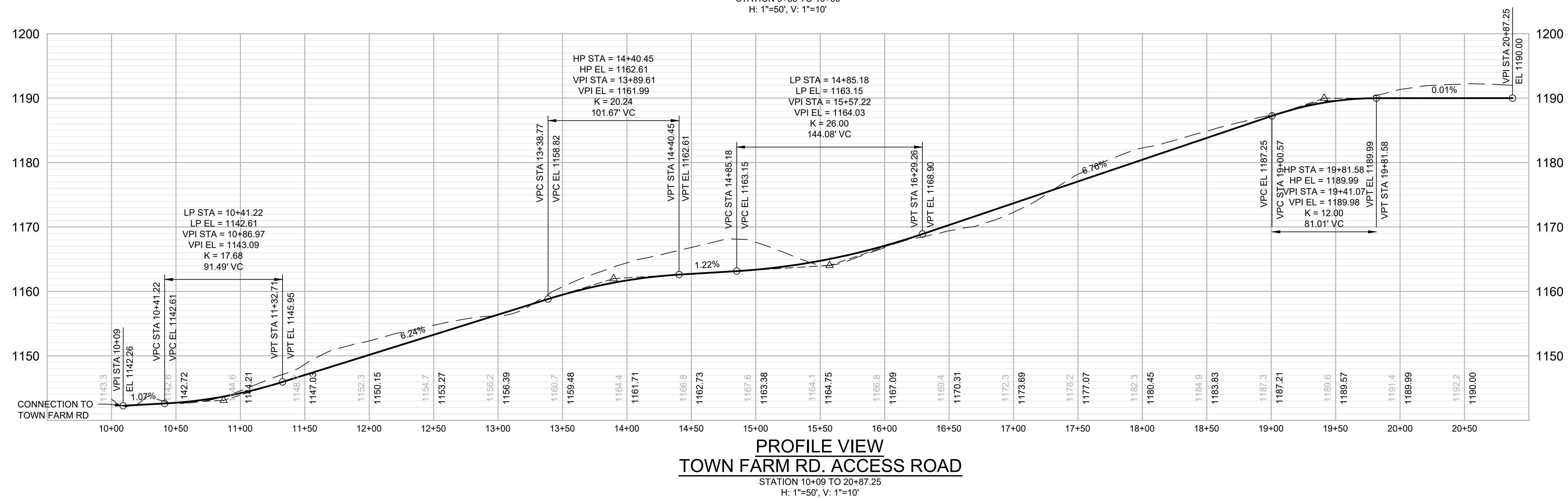
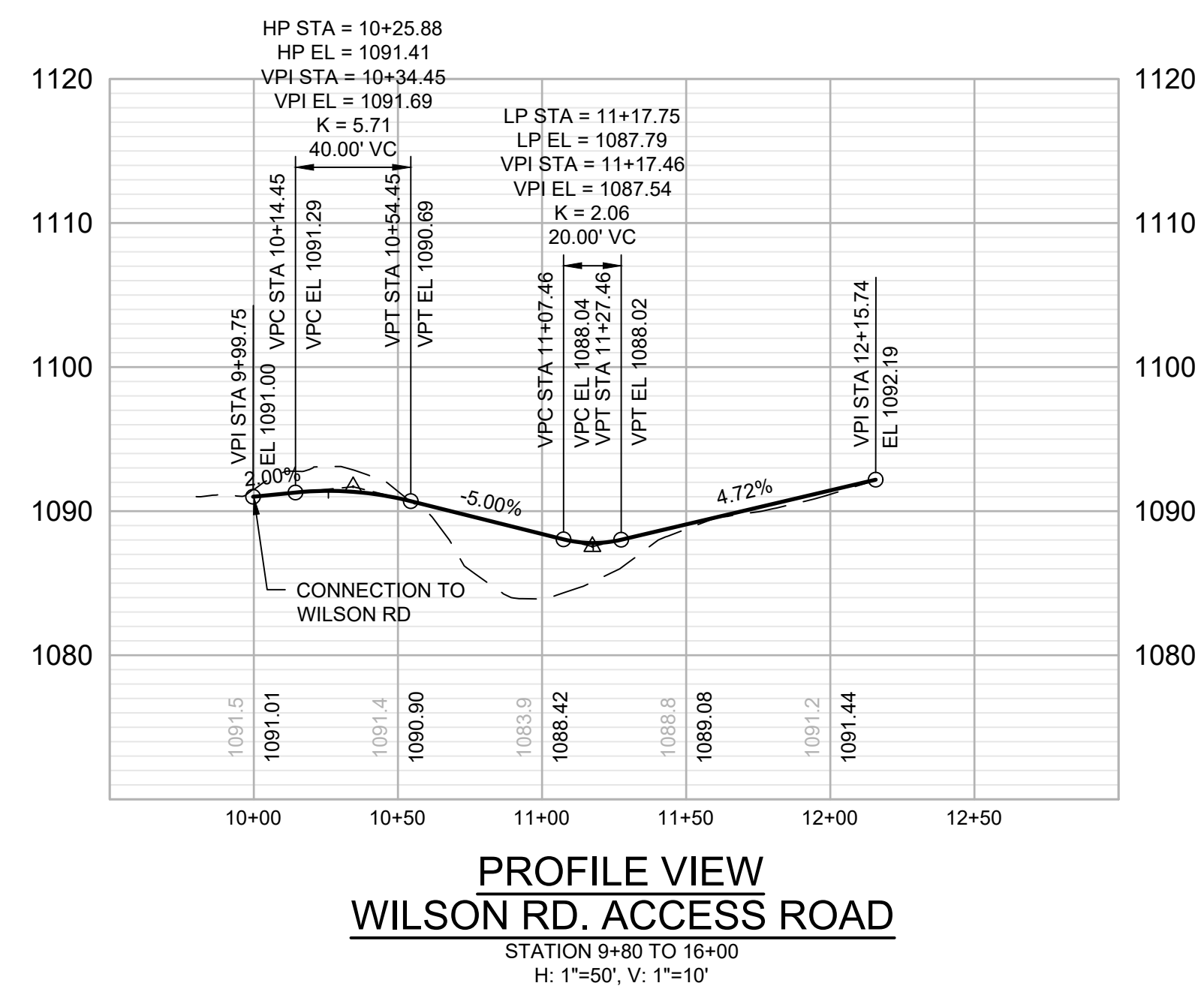
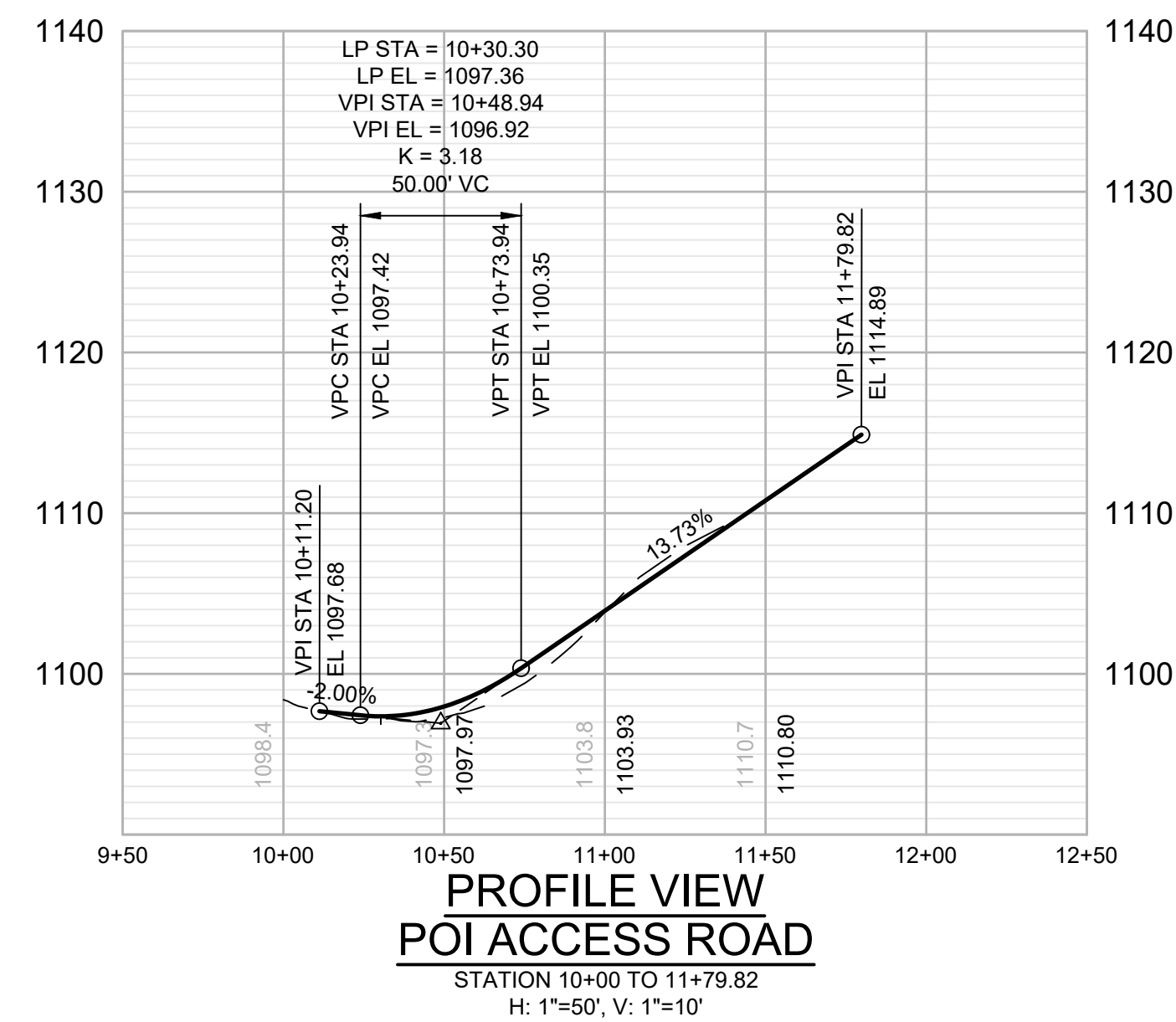
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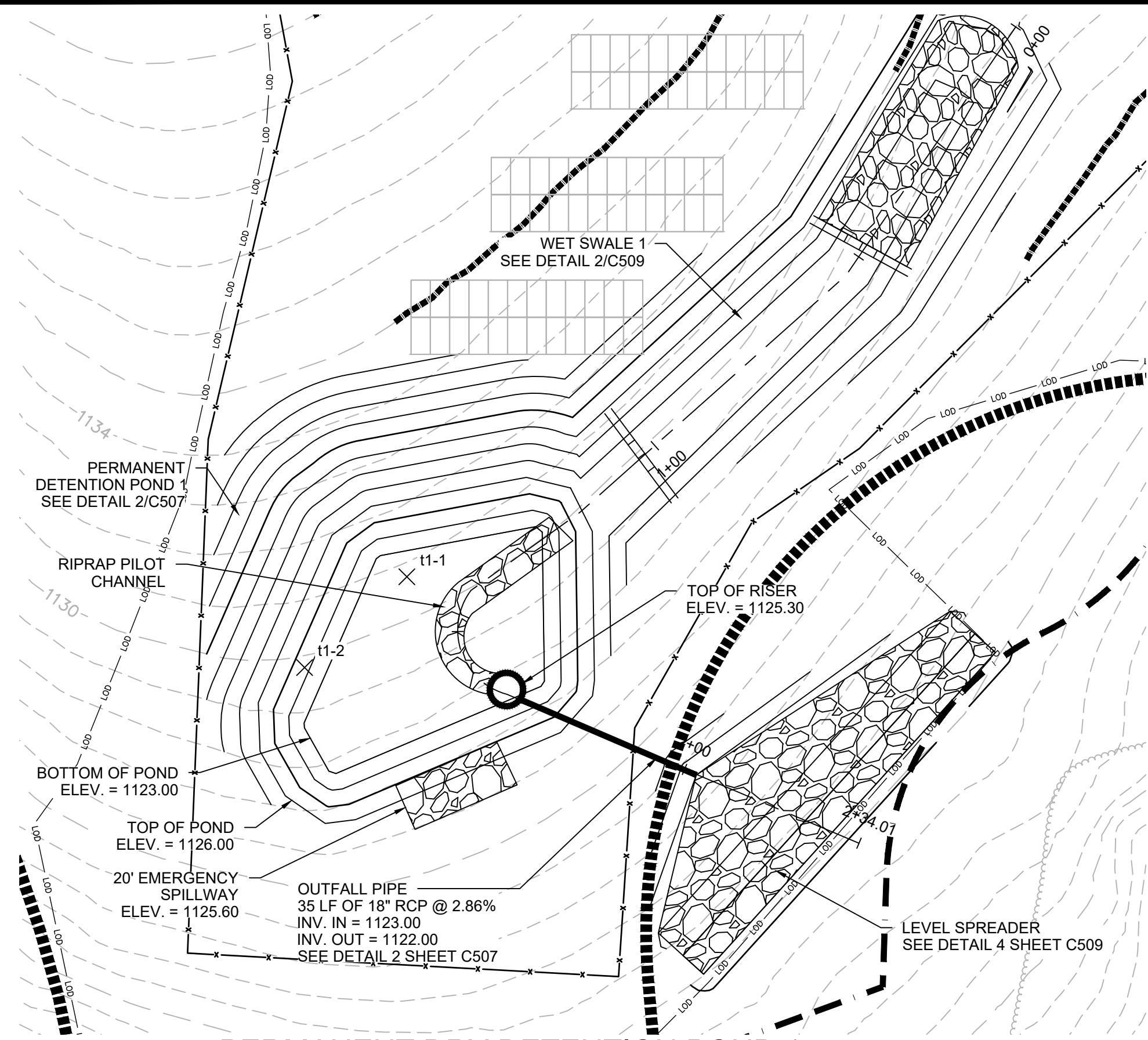
ACCESS ROAD PROFILES 4

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

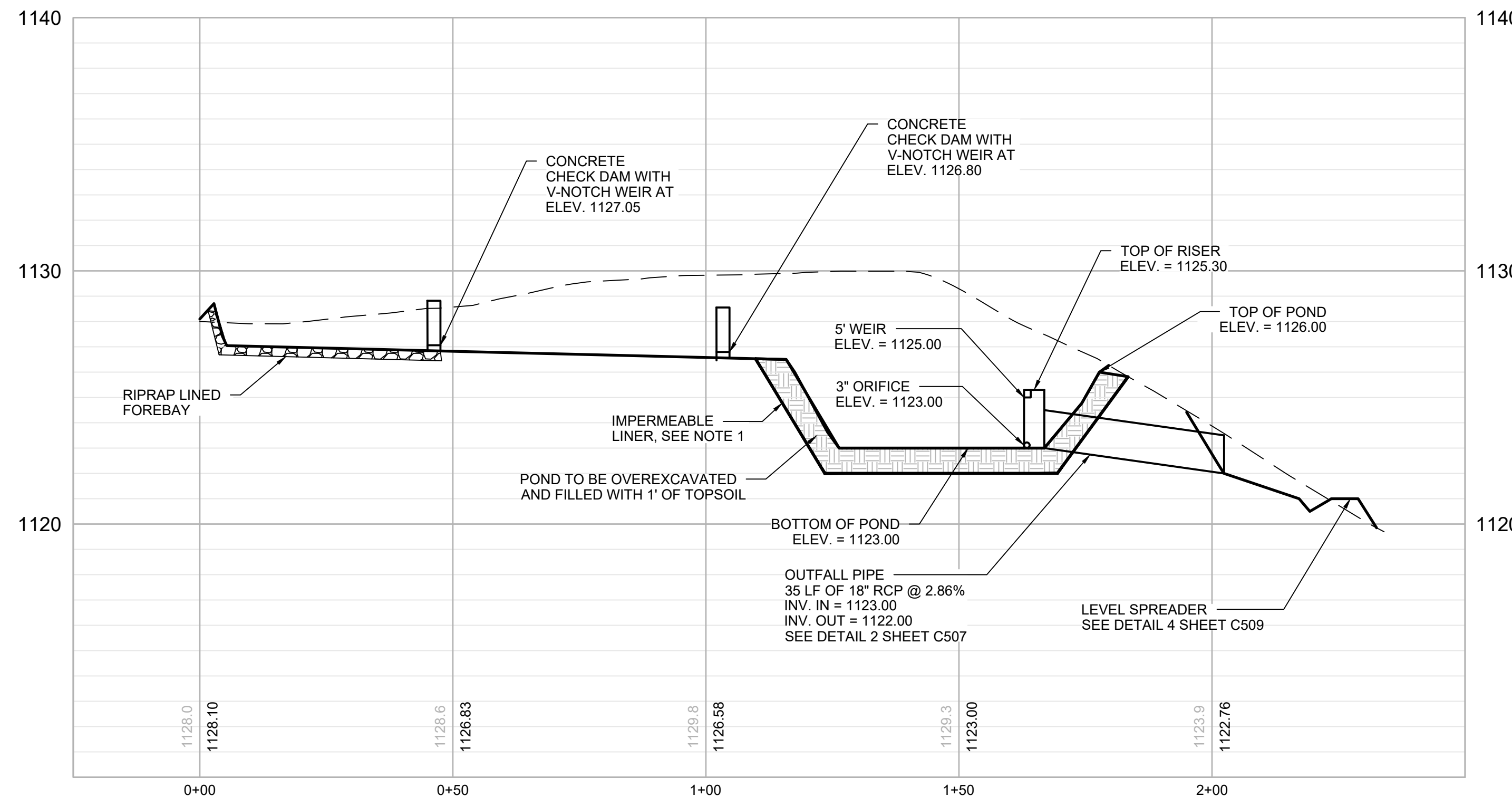
DRAWING NO.

C406

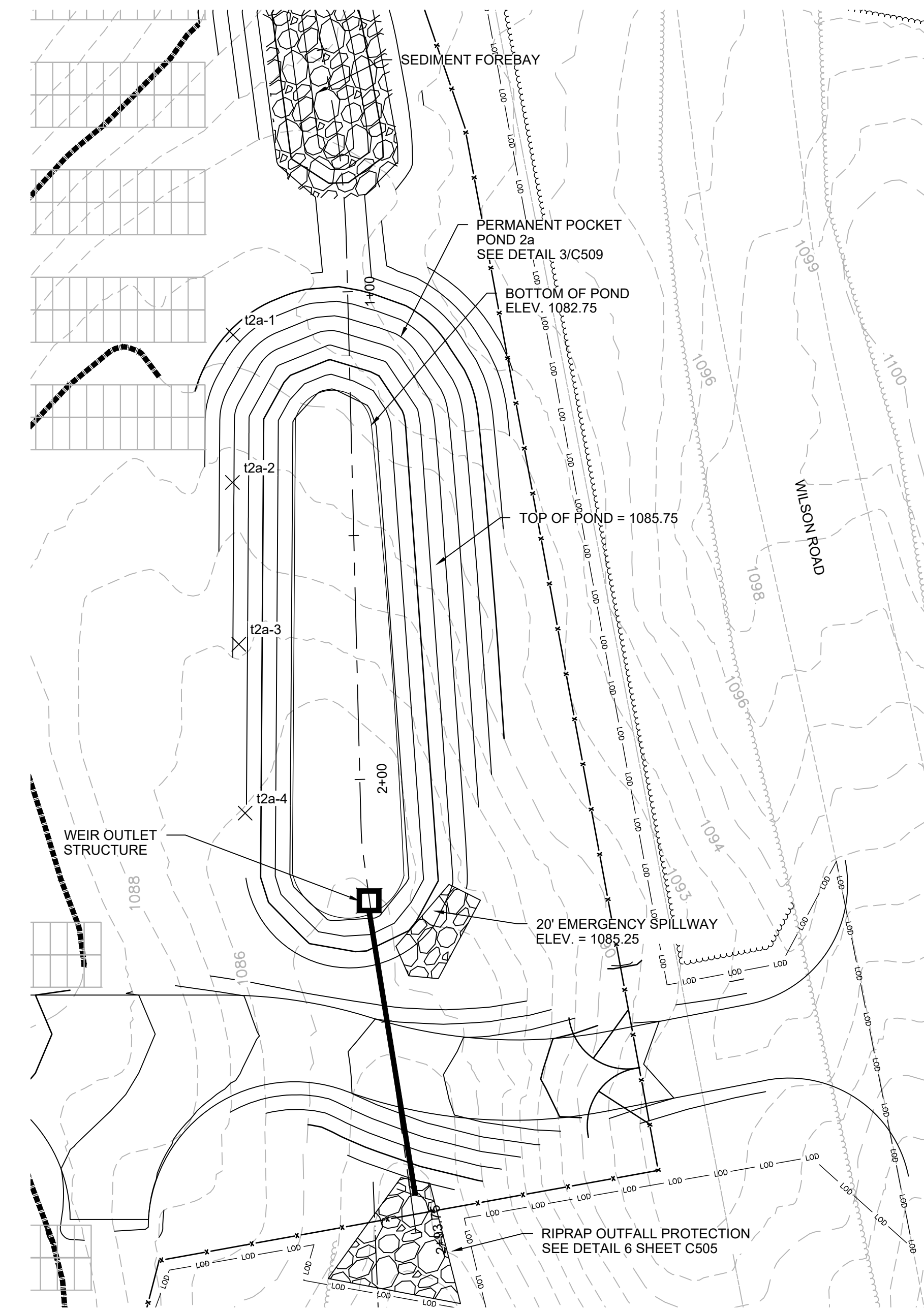
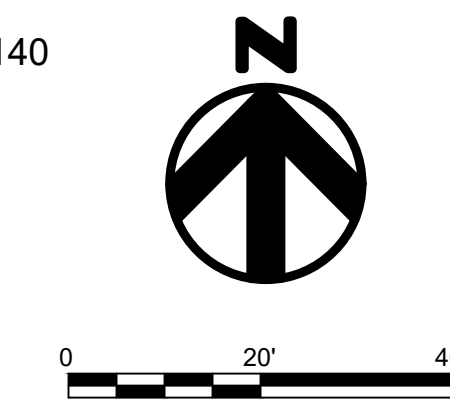




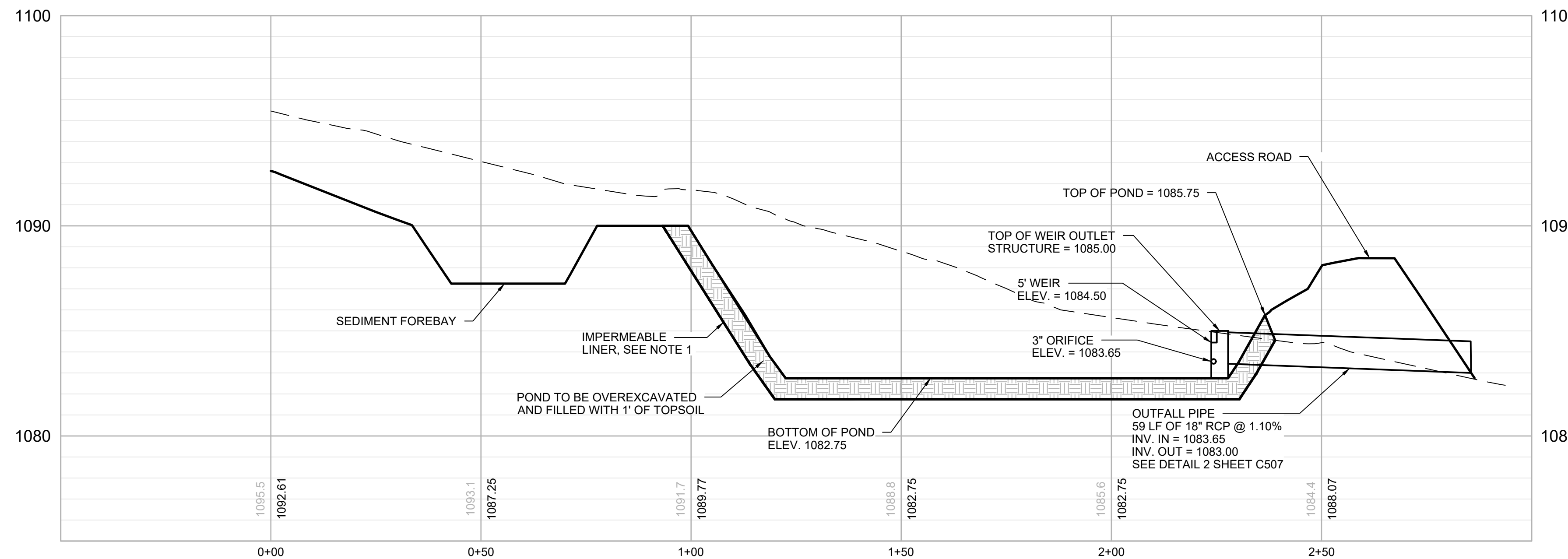
PERMANENT DRY DETENTION POND 1



PERMANENT DRY DETENTION POND 1 AND WET SWALE 1
H: 1" = 20'; V: 1" = 4'



PERMANENT POCKET POND 2A

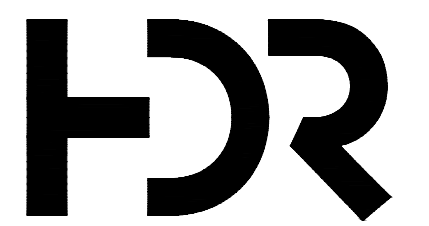


PERMANENT POCKET POND 2A
H: 1" = 20'; V: 1" = 4'

NOTE:

- FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL, AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



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LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

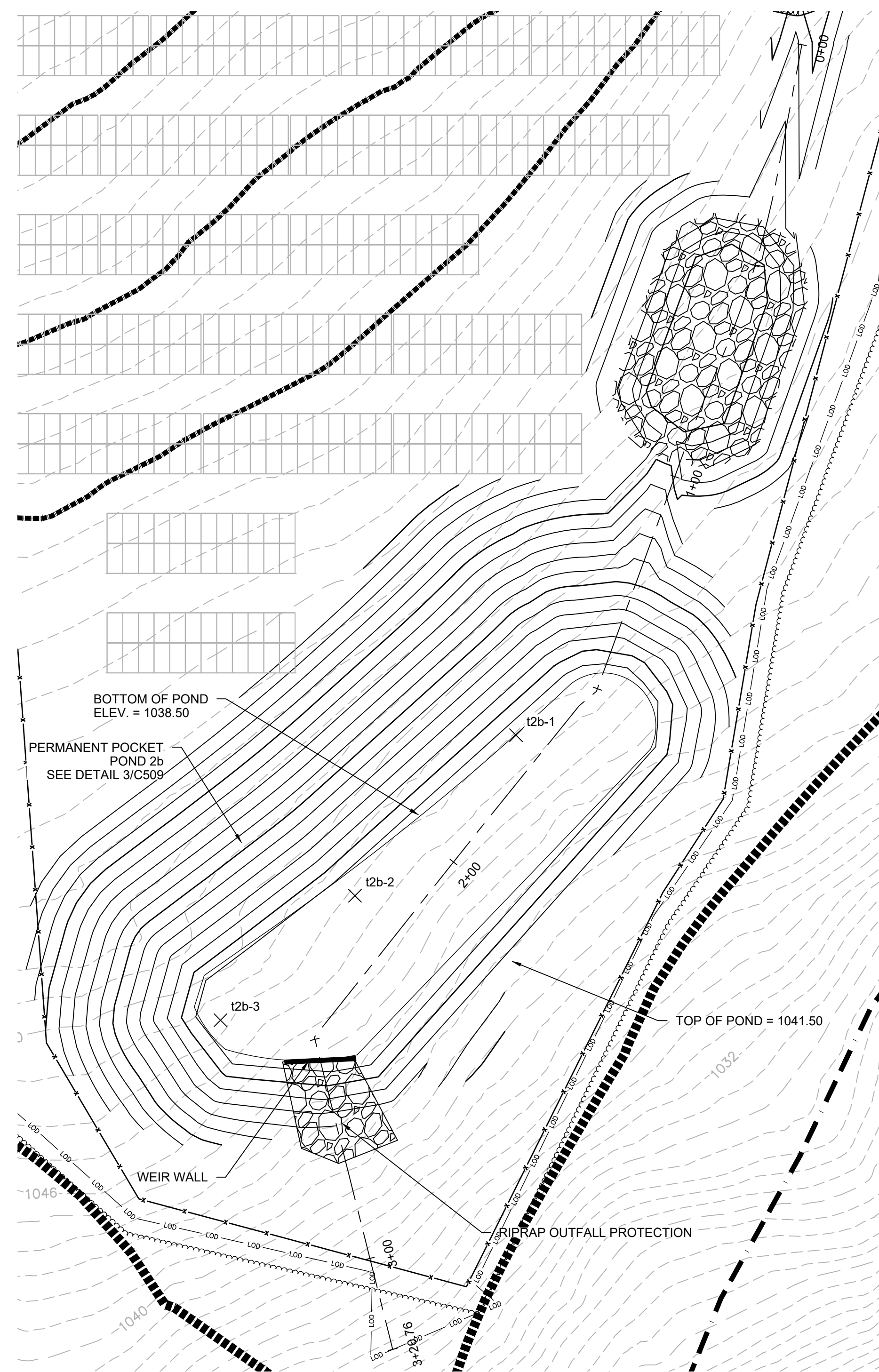
REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
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8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
PERMANENT POND DETAILS AND CROSS SECTIONS

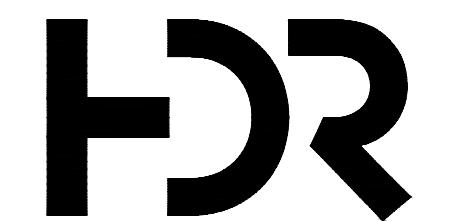
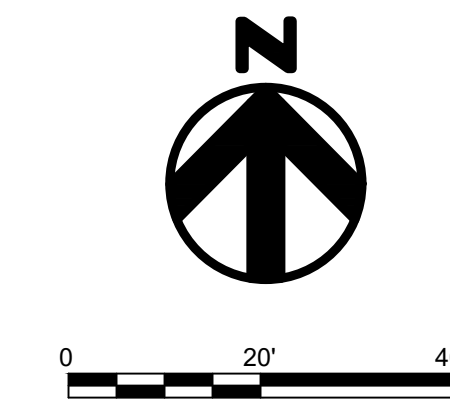
PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	1"=20'

DRAWING NO.

C420



PERMANENT POCKET
POND 2B



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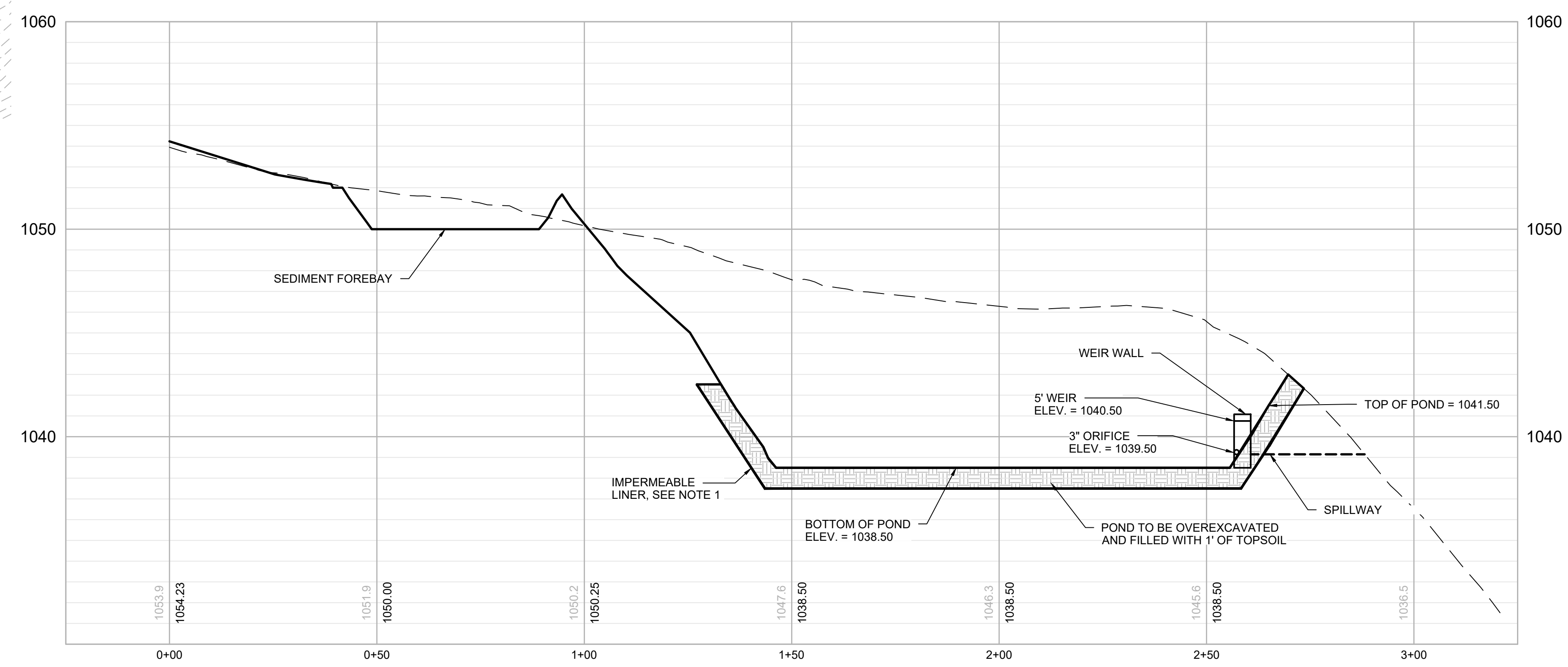
LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



PERMANENT POCKET
POND 2B

H: 1" = 20'; V: 1" = 4'

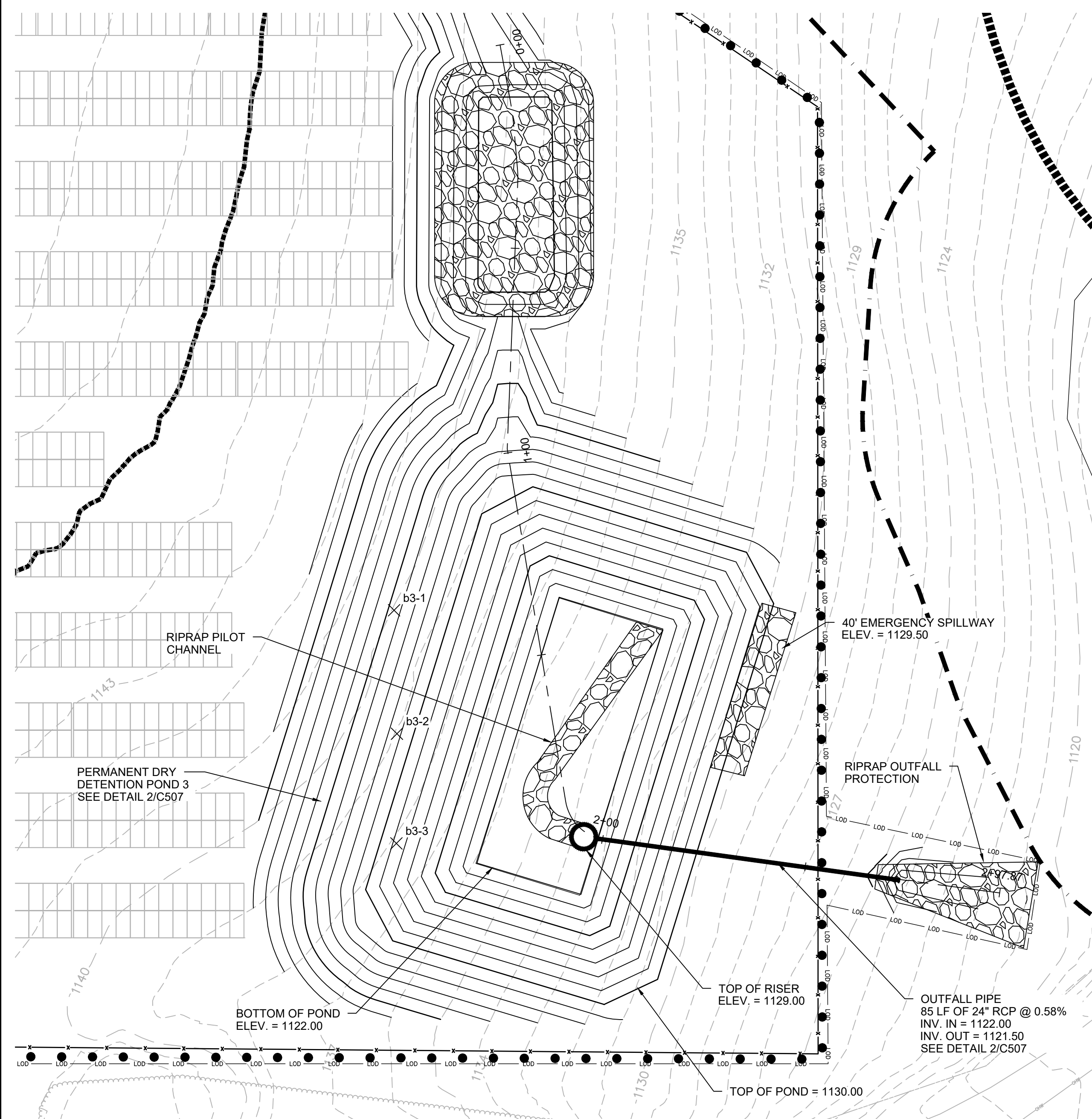
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
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8	RE-ISSUED FOR PERMIT	12/07/22

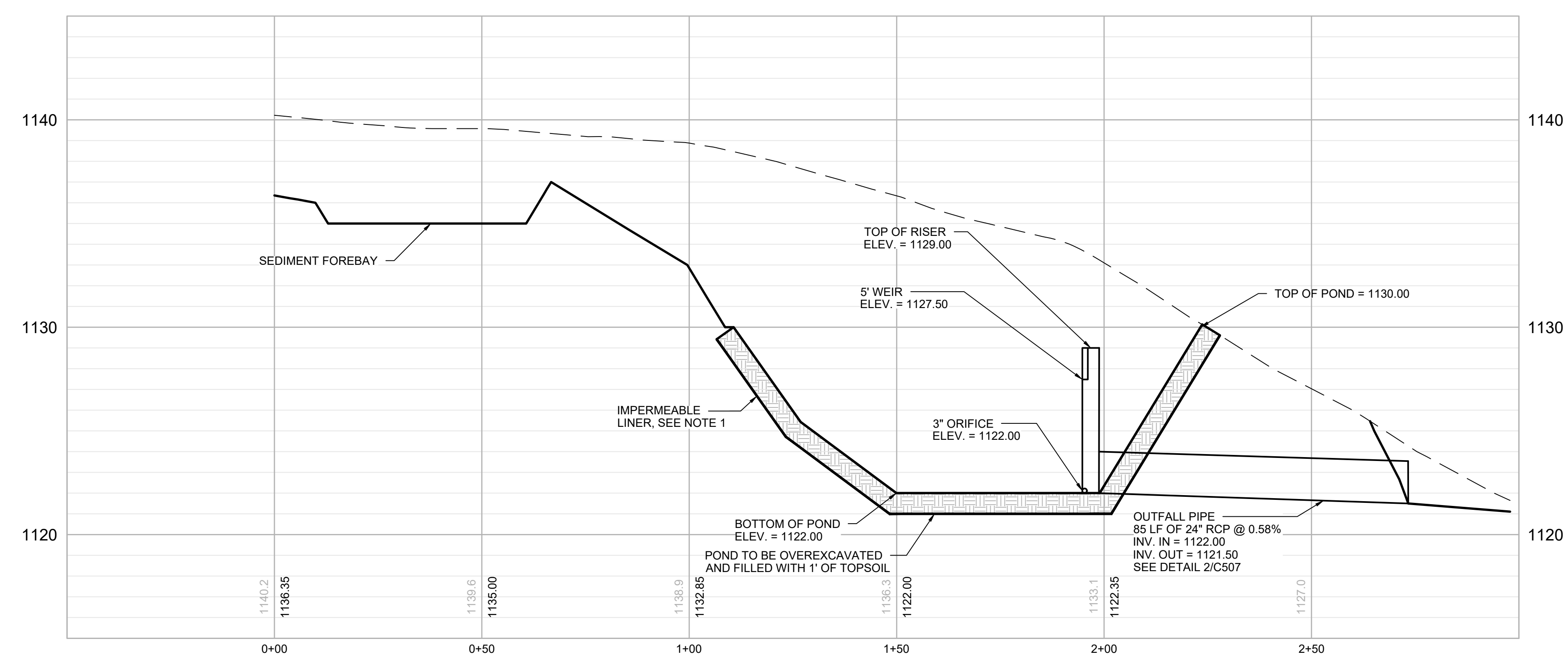
SHEET TITLE:
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.
C421



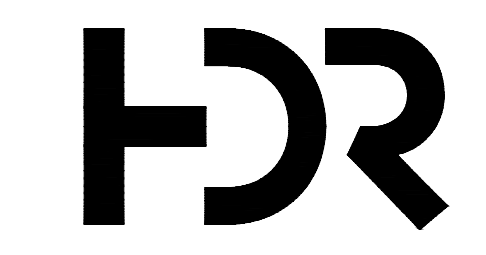
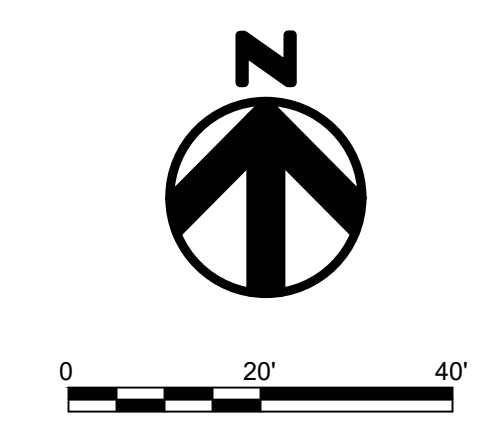
**PERMANENT DRY
DETENTION POND 3**



**PERMANENT DRY
DETENTION POND 3**
H: 1" = 20'; V: 1" = 4'

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V

NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



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**LITCHFIELD
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LAT: 41.794157°N
LON: 73.168028°W



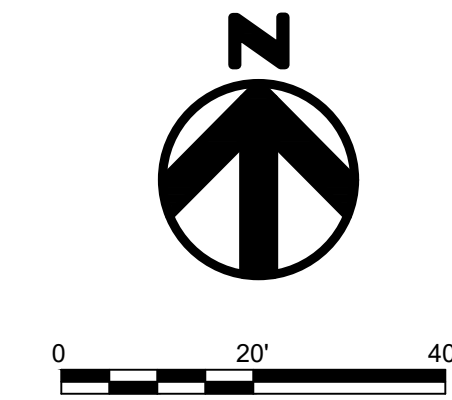
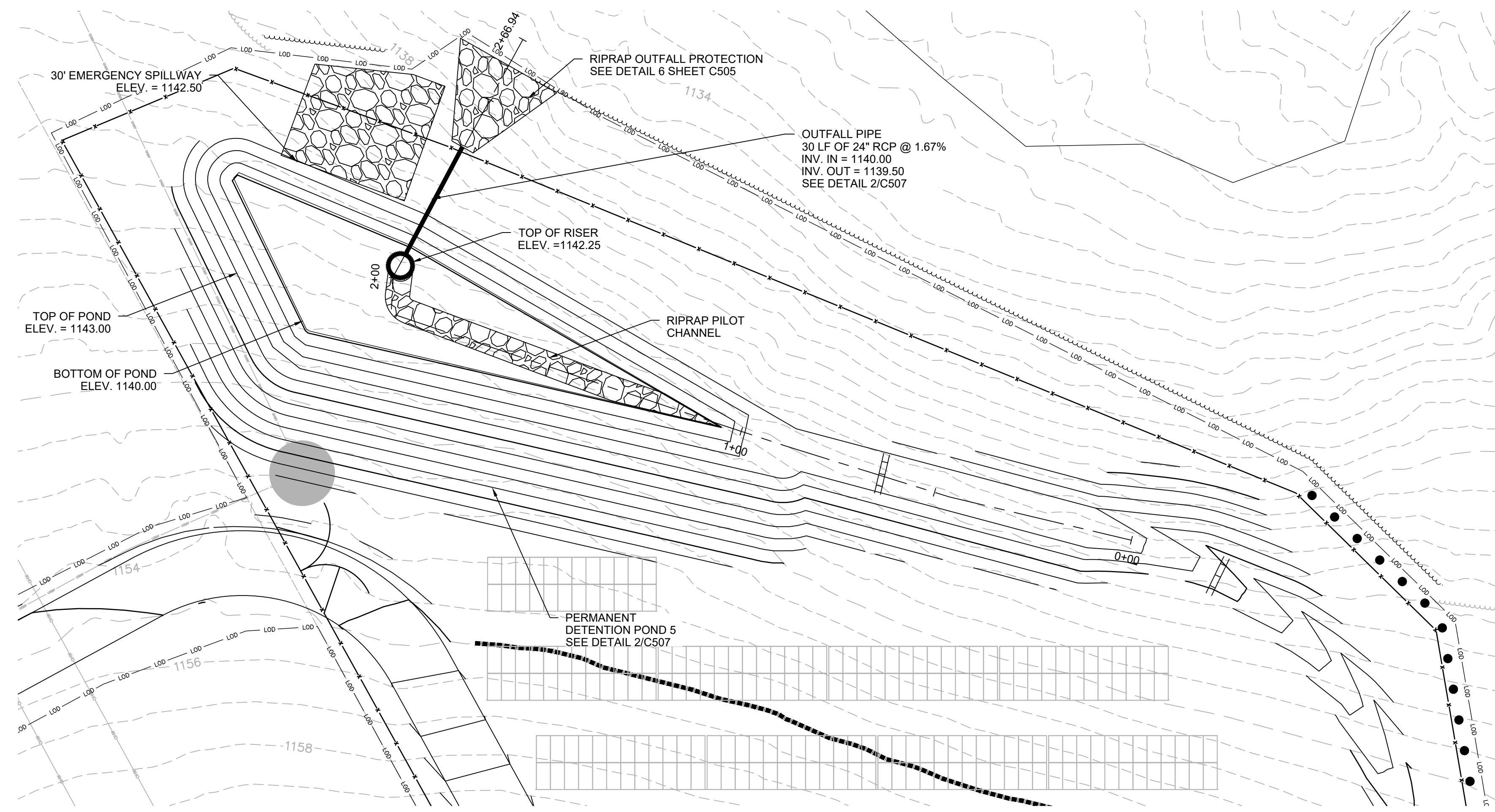
LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C422



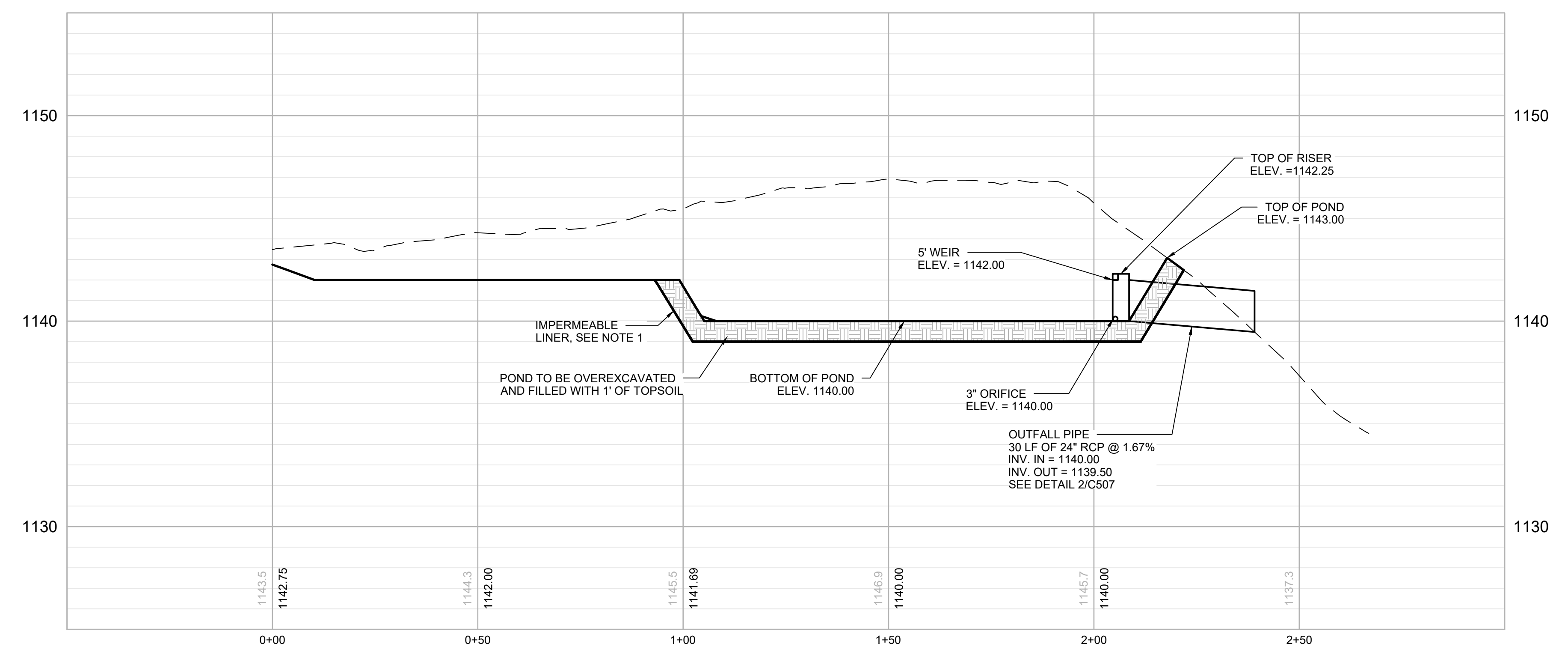
**NOT FOR
CONSTRUCTION**

**LITCHFIELD
SOLAR**

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TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W

LITCHFIELD, CT

**PERMANENT DRY
DETENTION POND 5**



**PERMANENT DRY
DETENTION POND 5**
H: 1" = 20'; V: 1" = 4'

NOTE:

1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL, AND MUST BE PROTECTED FROM UPGRADE DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

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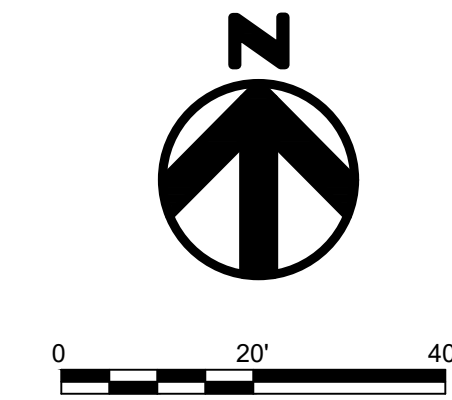
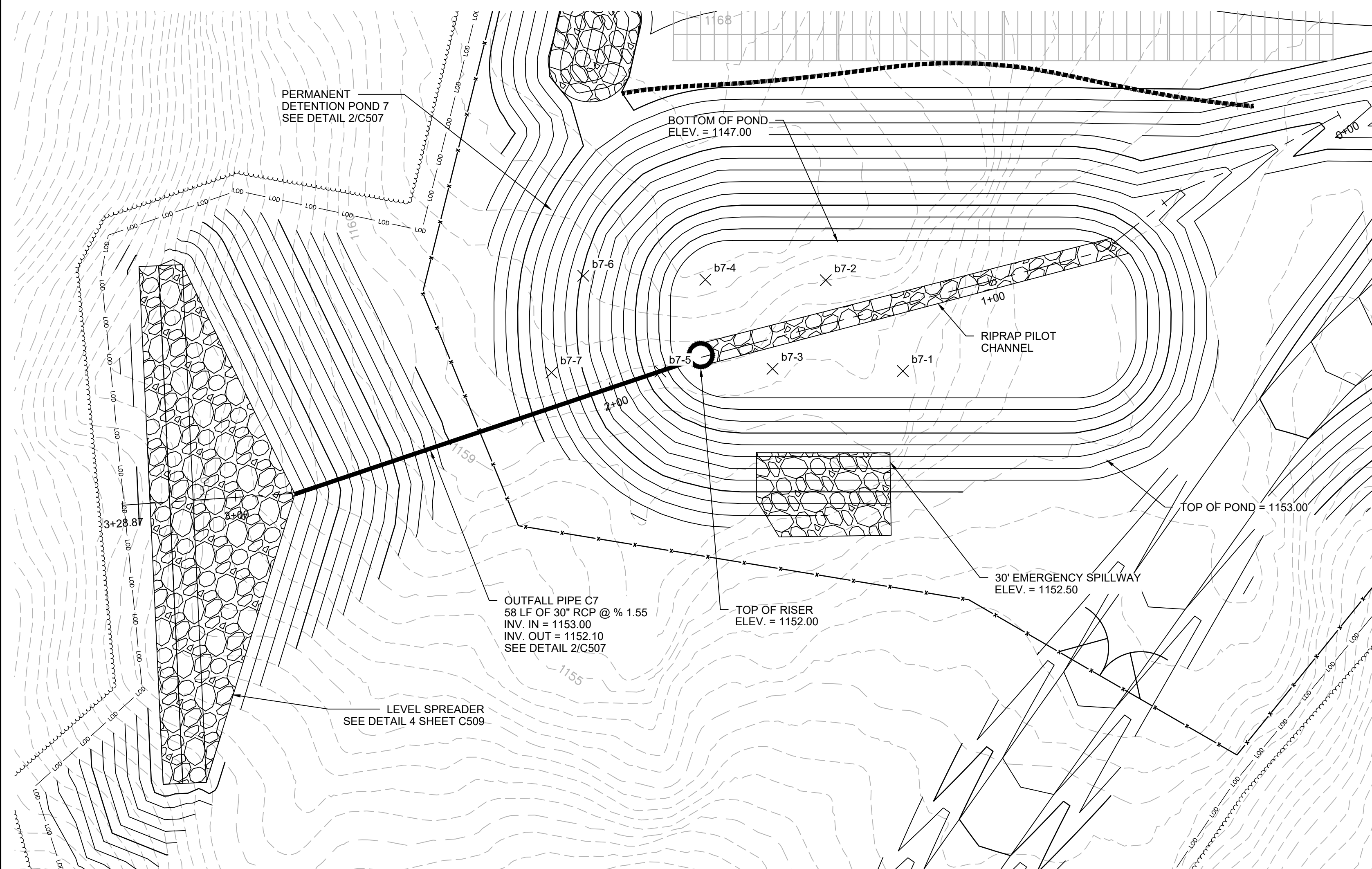
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

C423

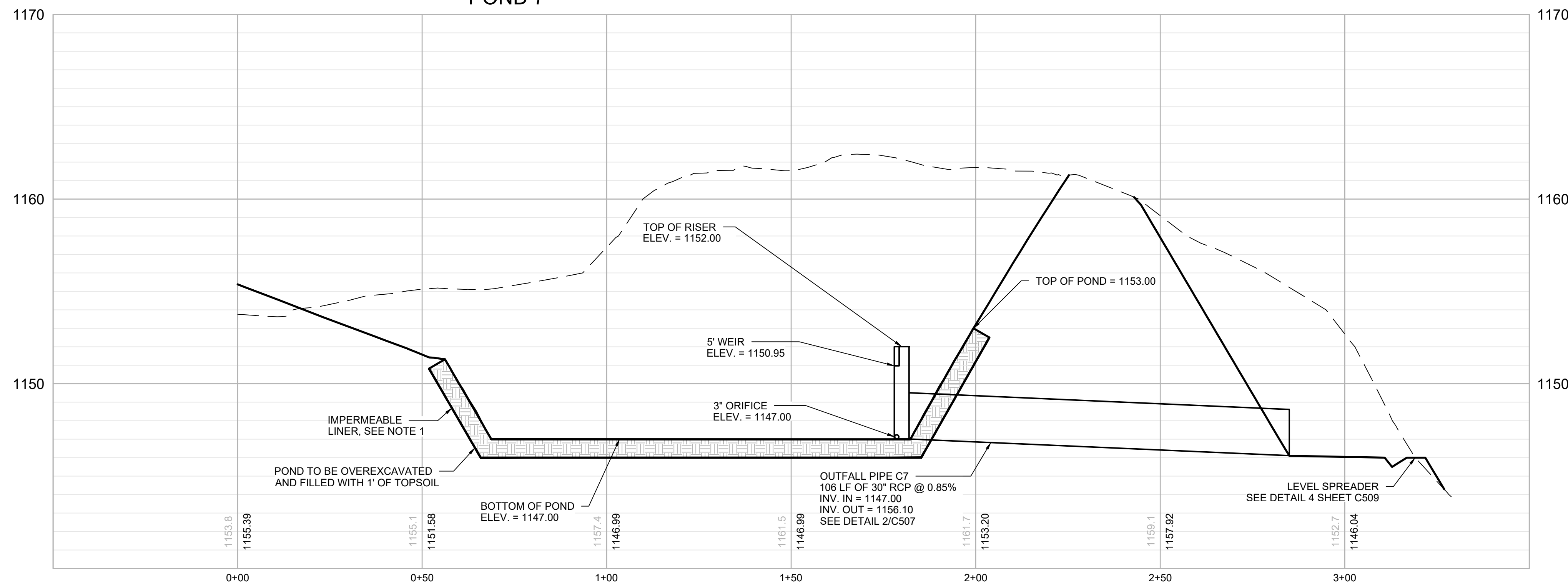
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOTE:

1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PERMANENT DRY DETENTION POND 7



PERMANENT DRY DETENTION POND 7
H: 1" = 20'; V: 1" = 4'



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LITCHFIELD, CT

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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

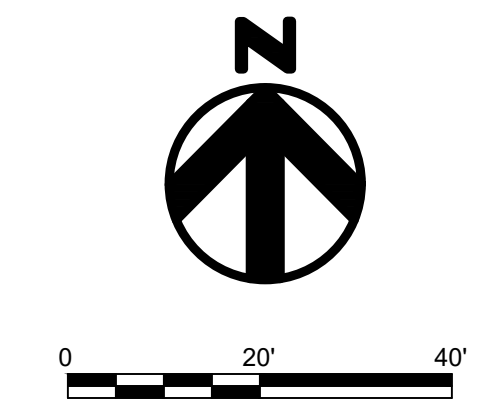
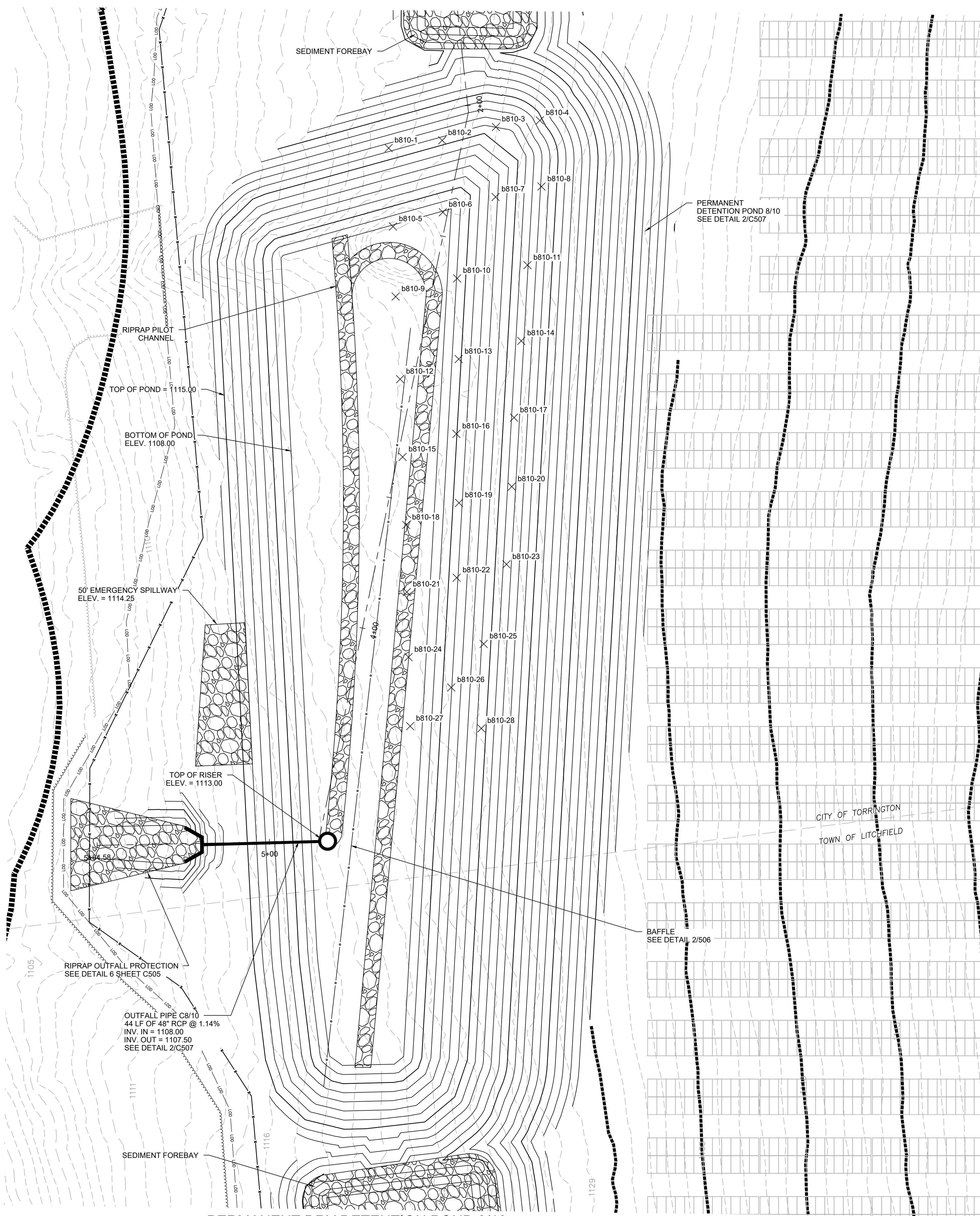
PERMANENT POND DETAILS AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

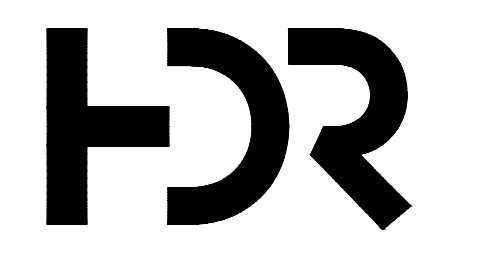
C424

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOTE:

- FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



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LITCHFIELD, CT

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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

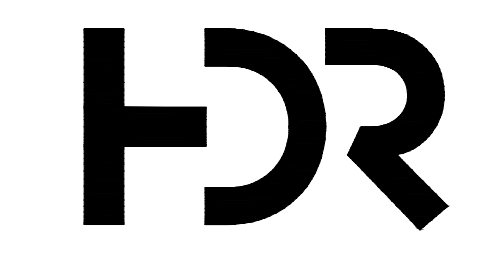
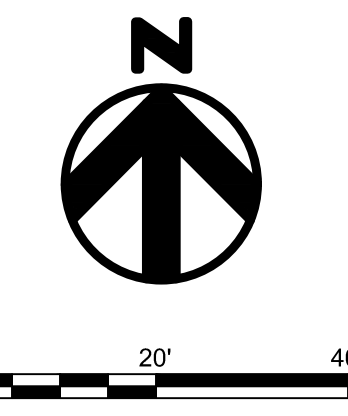
SHEET TITLE:
PERMANENT POND DETAILS AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

C425

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



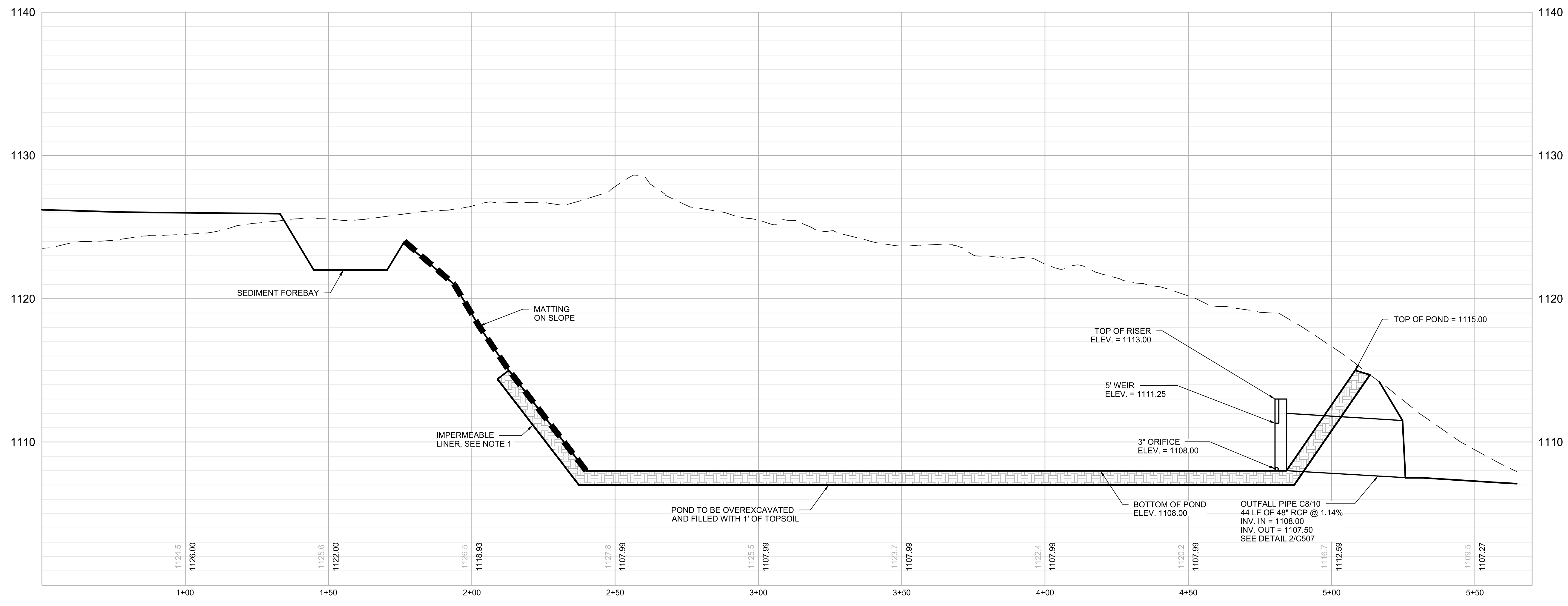
NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT



PERMANENT DRY
DETENTION POND 8/10
H: 1" = 20'; V: 1" = 4'

NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

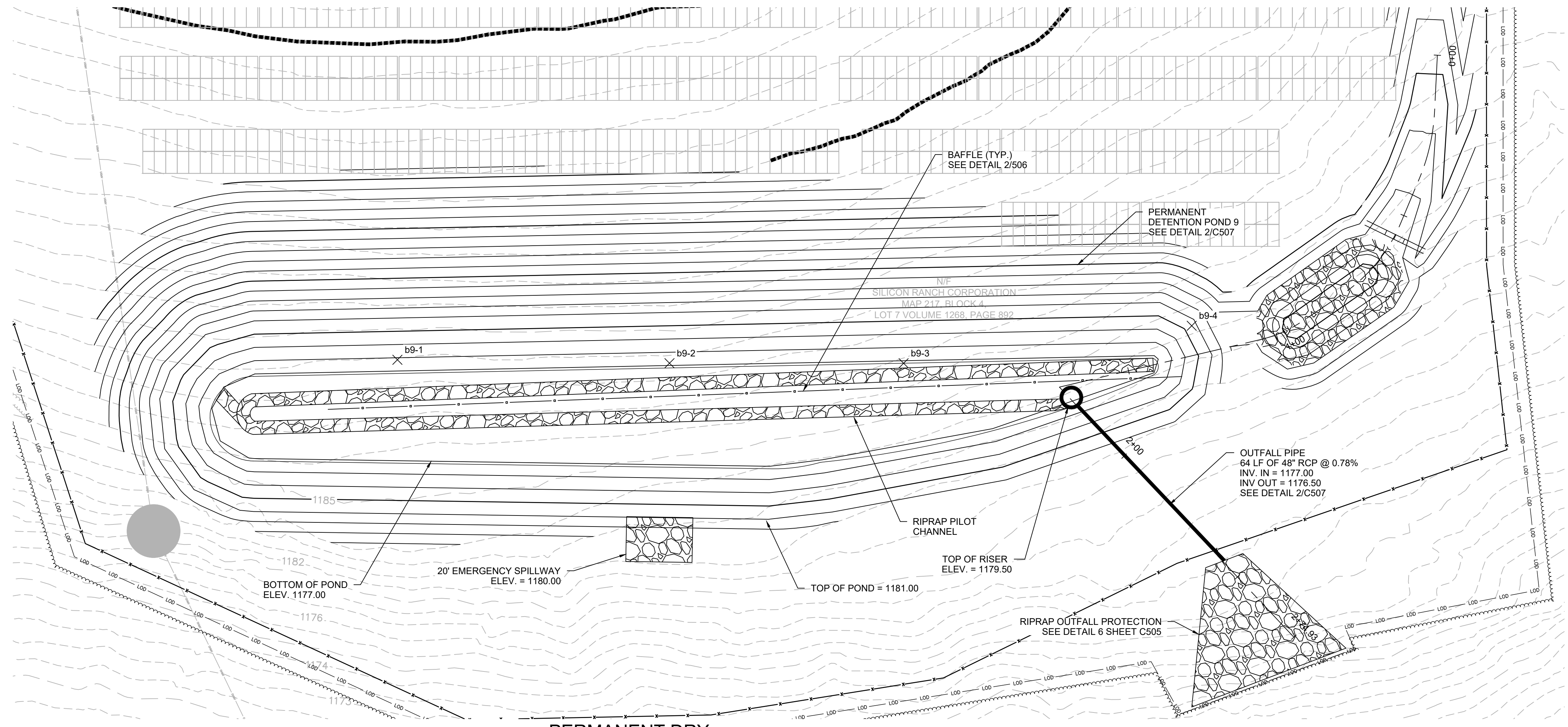
REV. NO	DESCRIPTION	DATE
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11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

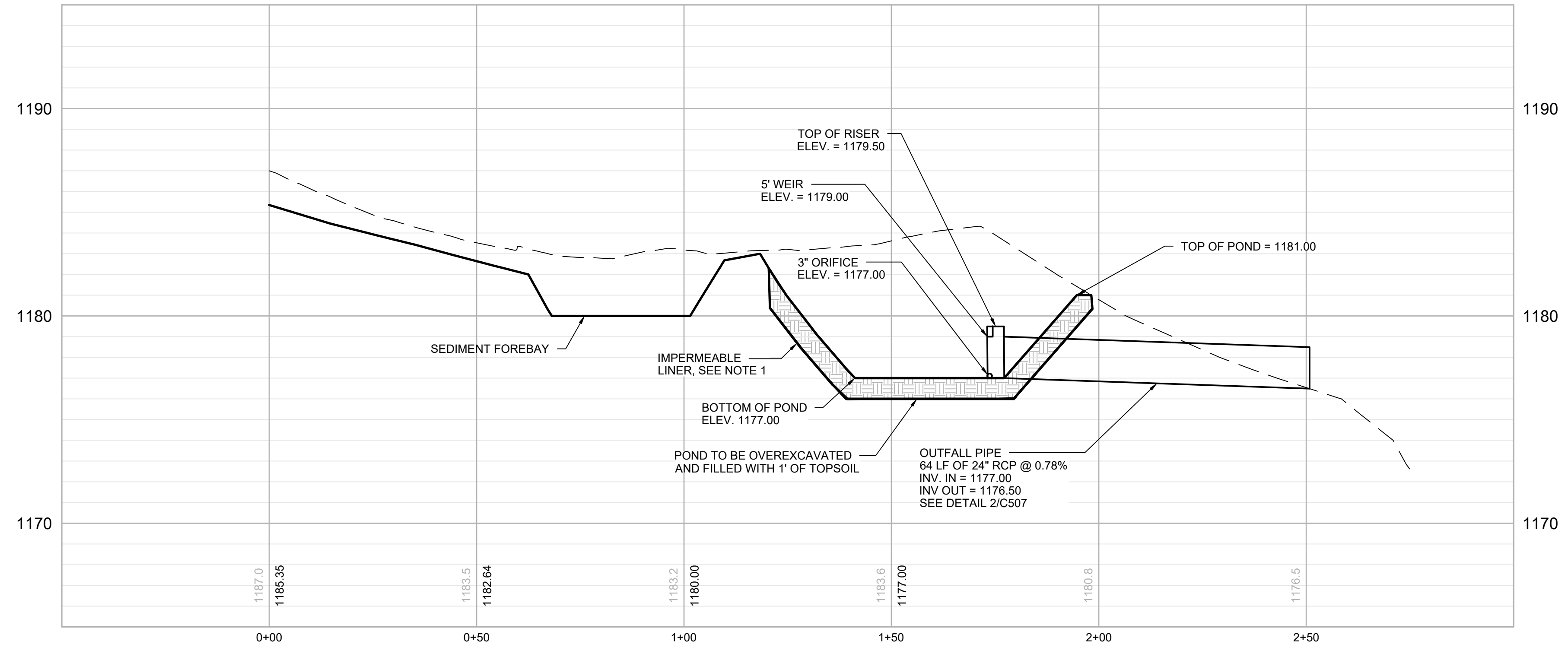
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.
C426

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V

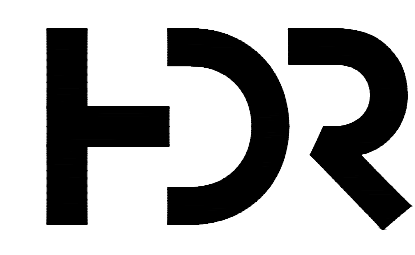


PERMANENT DRY
DETENTION POND 9



PERMANENT DRY
DETENTION POND 9
H: 1" = 20'; V: 1" = 4'

NOTE:
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LITCHFIELD, CT

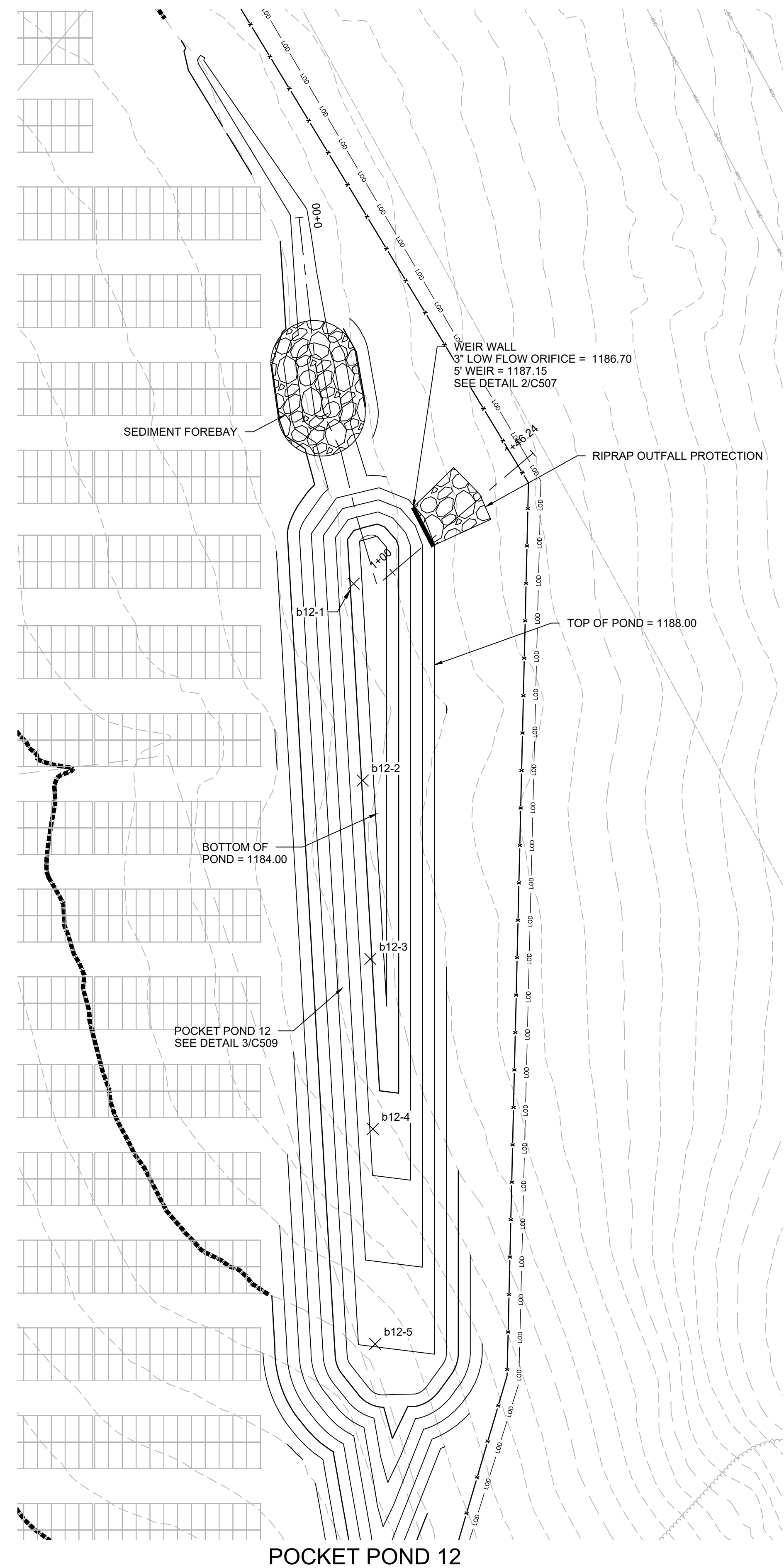
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8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

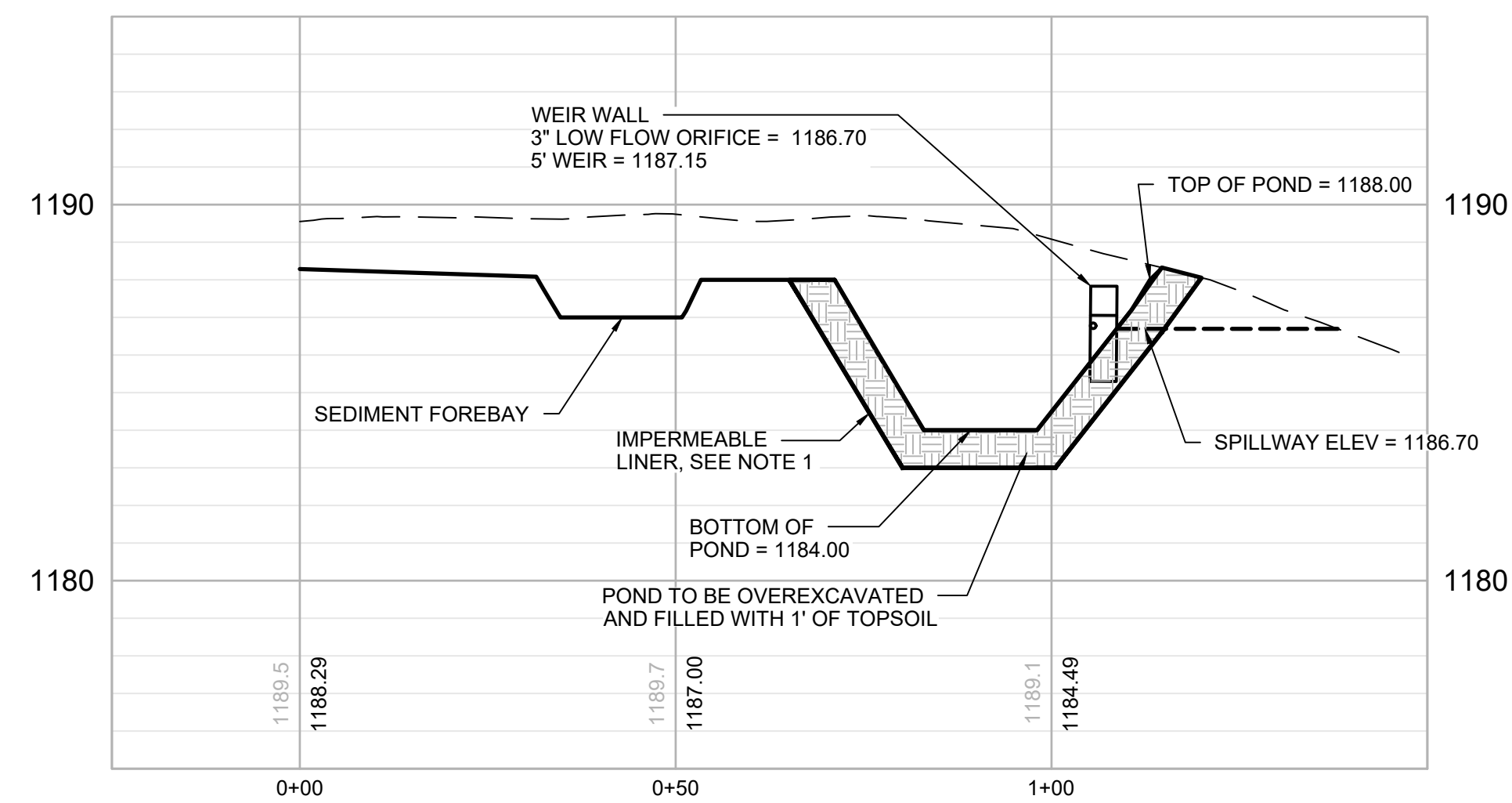
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DRAWING NO.
C427

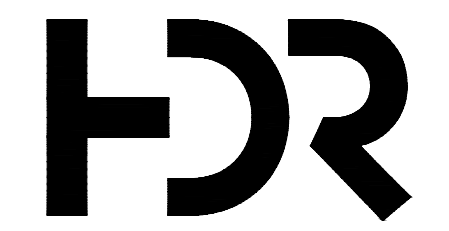
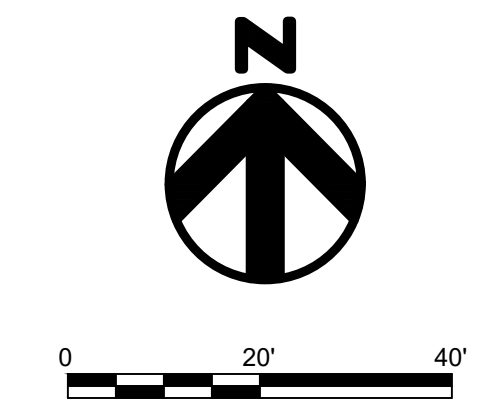
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



POCKET POND 12



POCKET POND 12
H: 1" = 20'; V: 1" = 4'



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LITCHFIELD, CT

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SHEET TITLE:
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

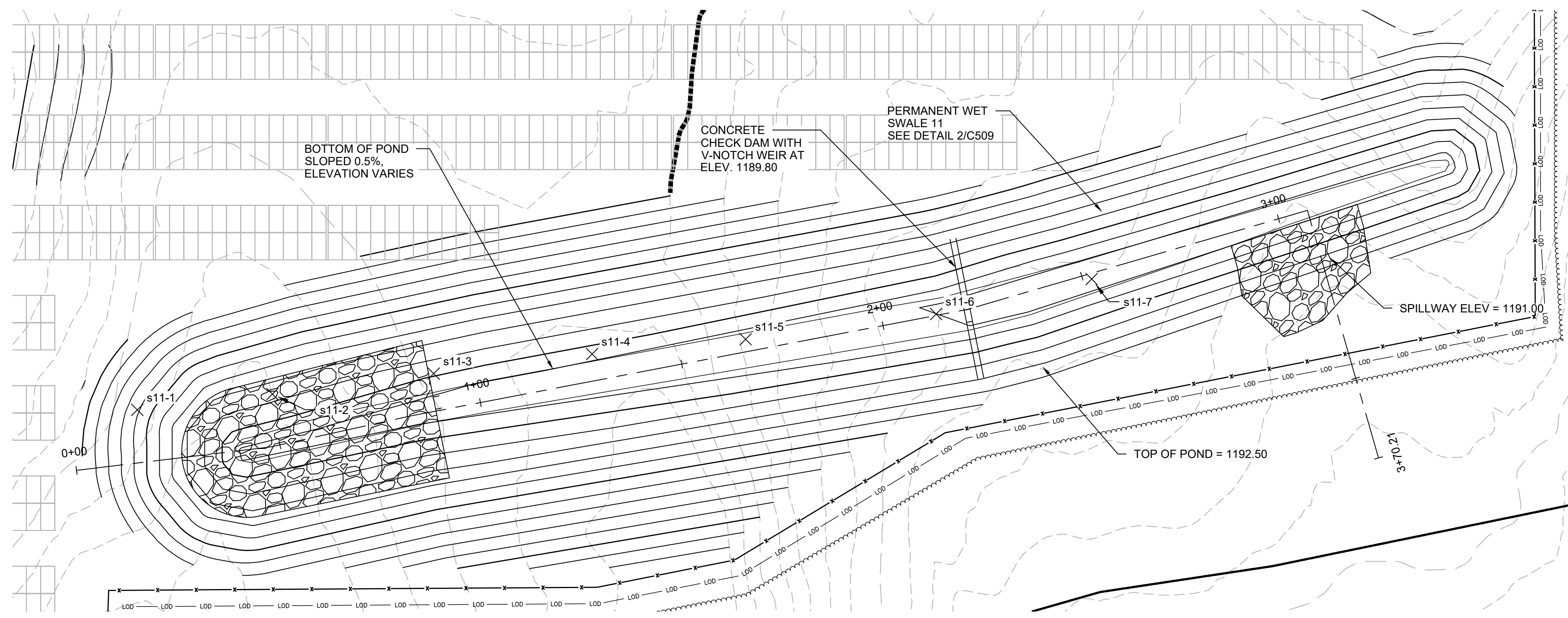
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C428

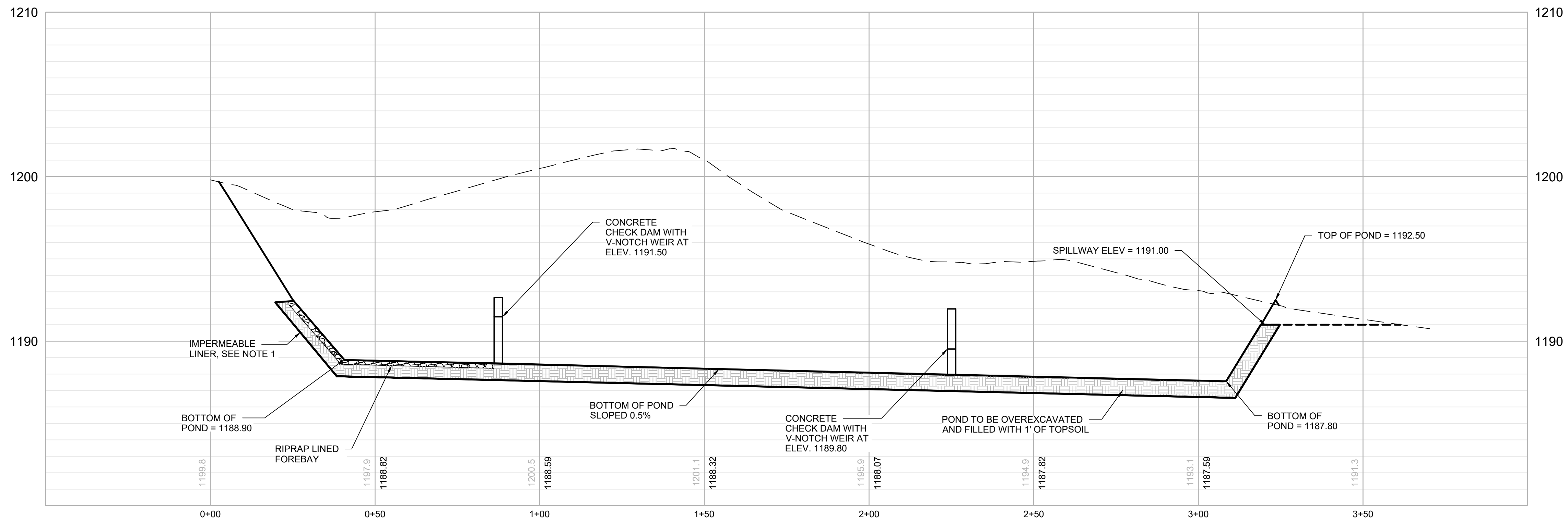
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NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



WET SWALE 11



WET SWALE 11
H: 1" = 20'; V: 1" = 4'

NOTE:

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NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



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8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

PERMANENT POND DETAILS
AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

C429



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

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8	RE-ISSUED FOR PERMIT	12/07/22

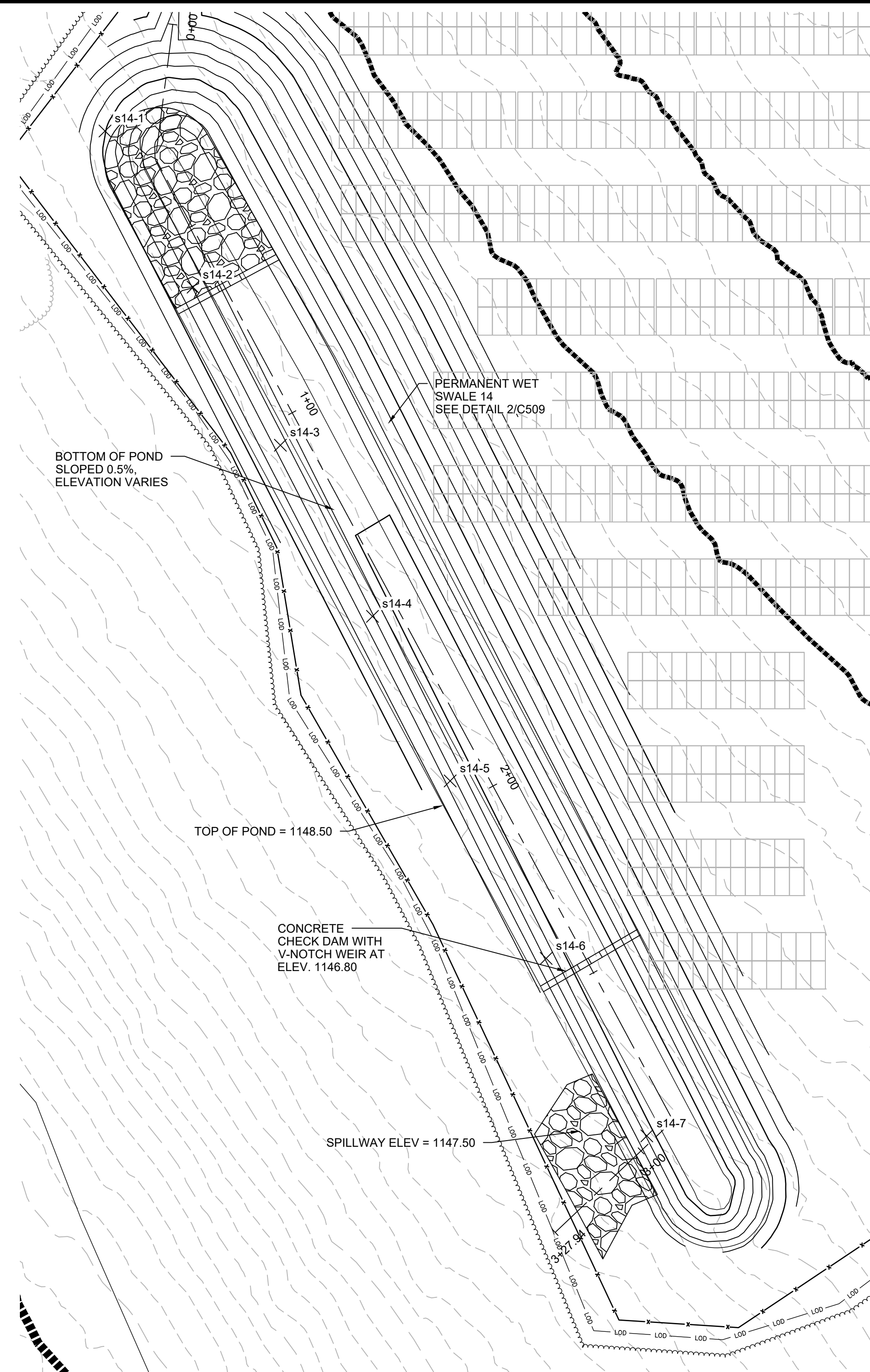
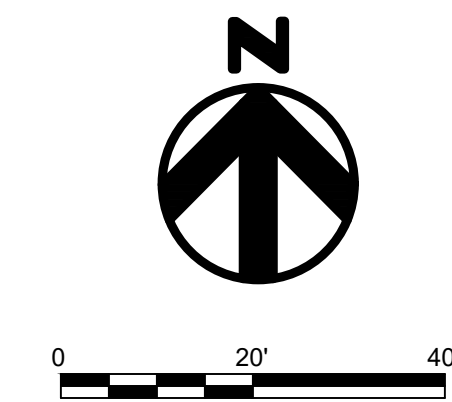
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PERMANENT POND DETAILS
AND CROSS SECTIONS

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
DRAWN BY:	CHECKED BY:	SCALE:
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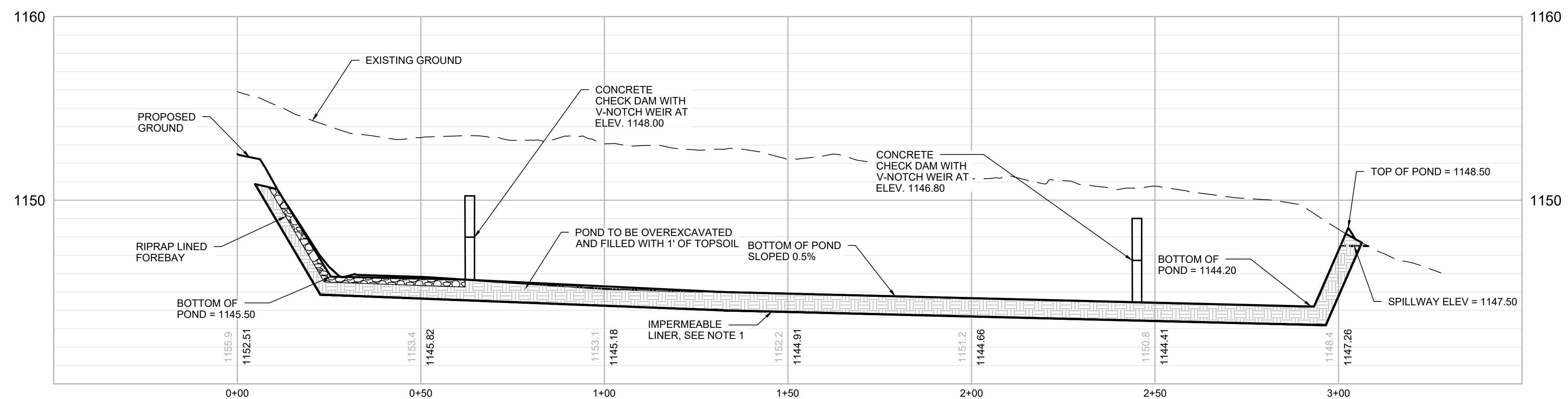
C430



NOTE:

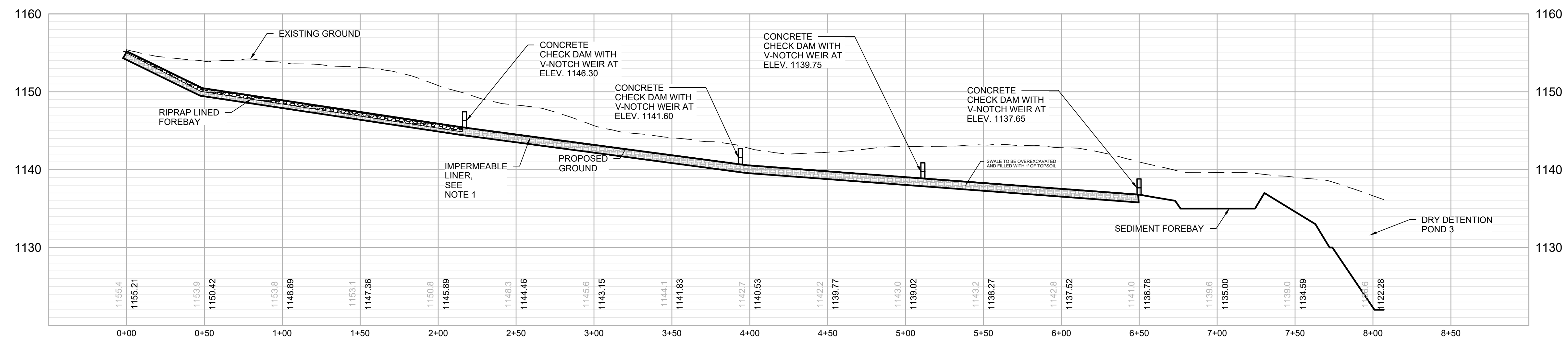
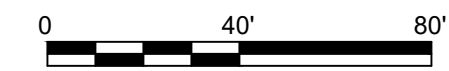
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WET SWALE 14

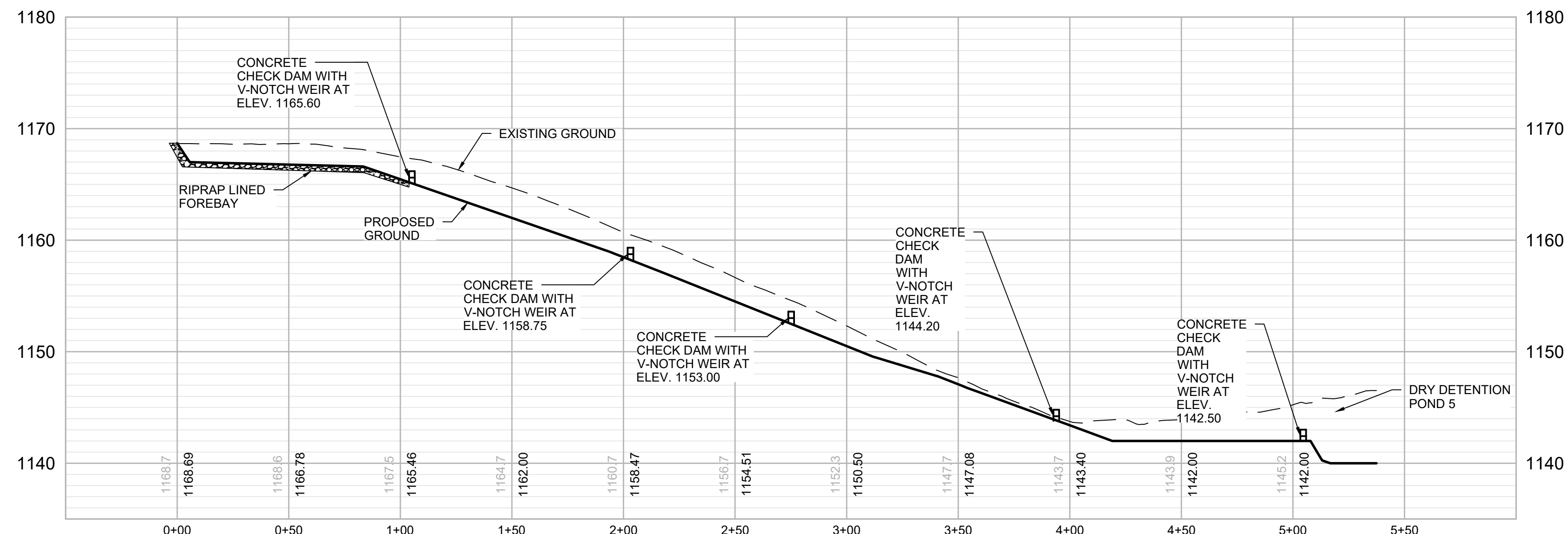


WET SWALE 14
H: 1" = 20'; V: 1" = 4'

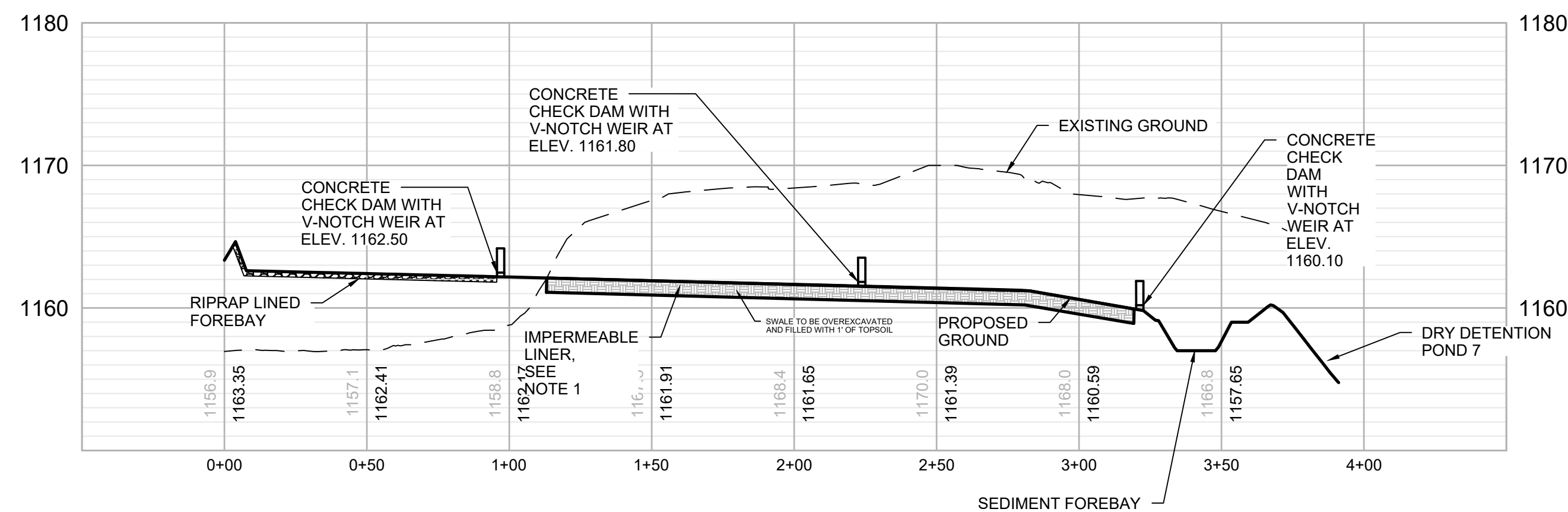
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



WET SWALE 3
H: 1" = 40'; V: 1" = 8'



WET SWALE 5
H: 1" = 40'; V: 1" = 8'



WET SWALE 7
H: 1" = 40'; V: 1" = 8'

NOTE:

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LITCHFIELD, CT

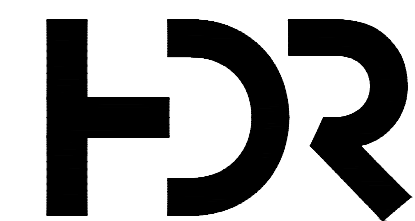
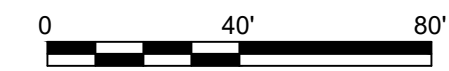
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8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

WET SWALE PROFILES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'
DRAWING NO.		

C431



**NOT FOR
CONSTRUCTION**

**LITCHFIELD
SOLAR**

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
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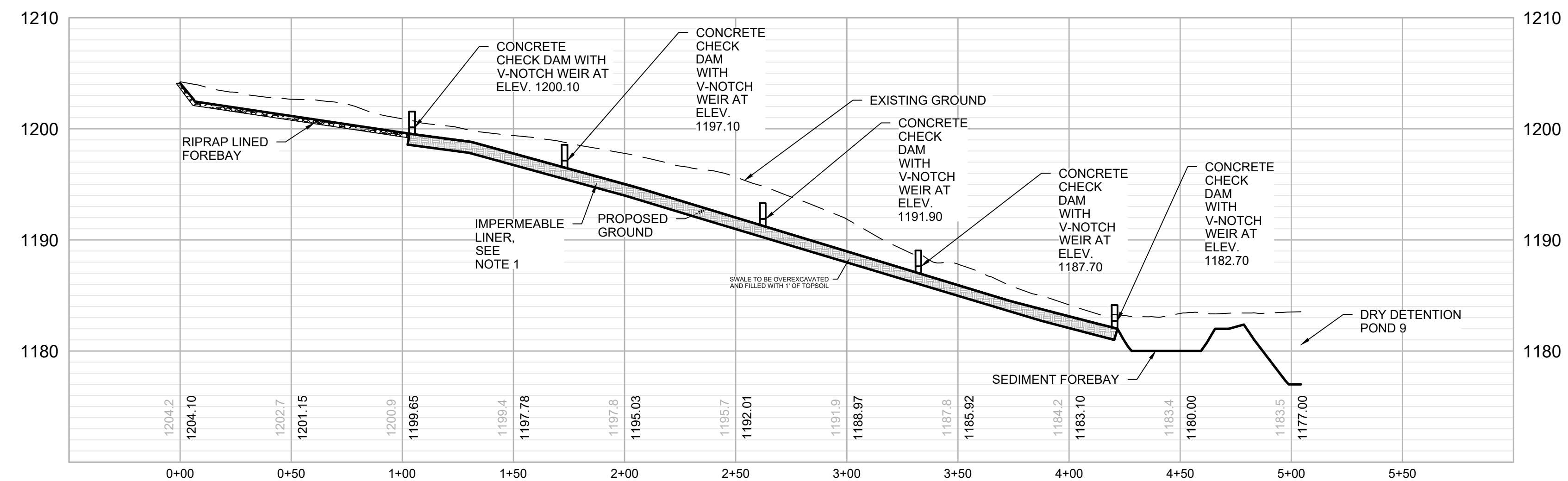
LITCHFIELD, CT

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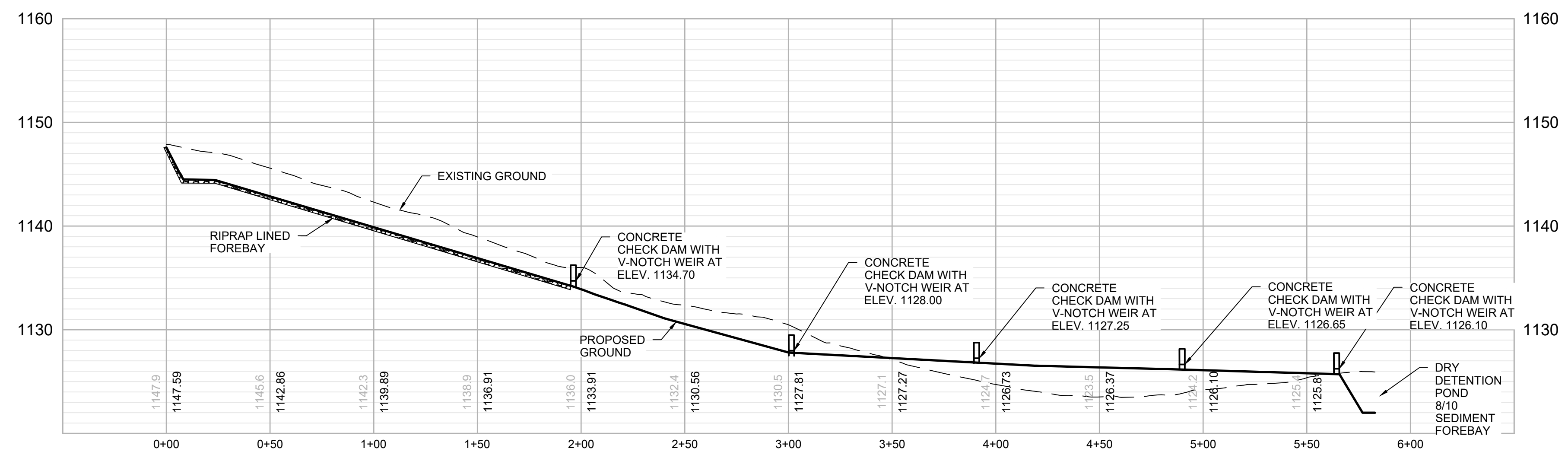
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WET SWALE PROFILES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'

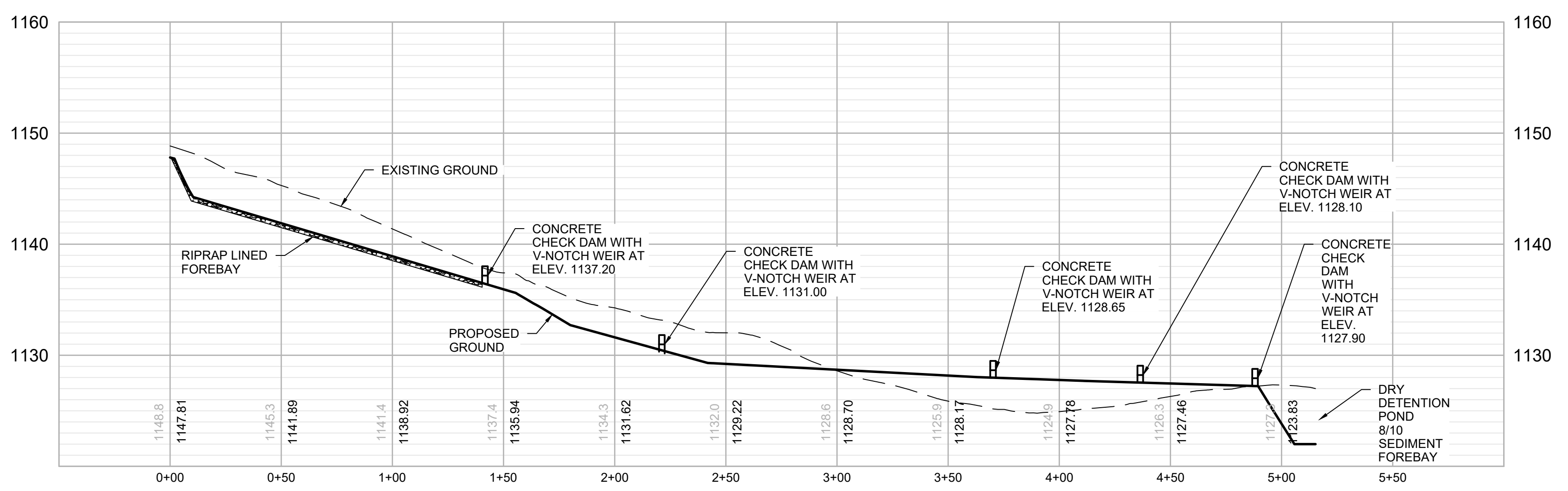
DRAWING NO.
C432



WET SWALE 9
H: 1" = 40'; V: 1" = 8'

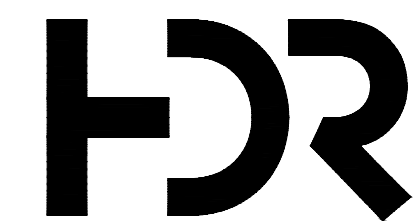
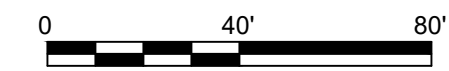


WET SWALE 8/10a
H: 1" = 40'; V: 1" = 8'



WET SWALE 8/10b
H: 1" = 40'; V: 1" = 8'

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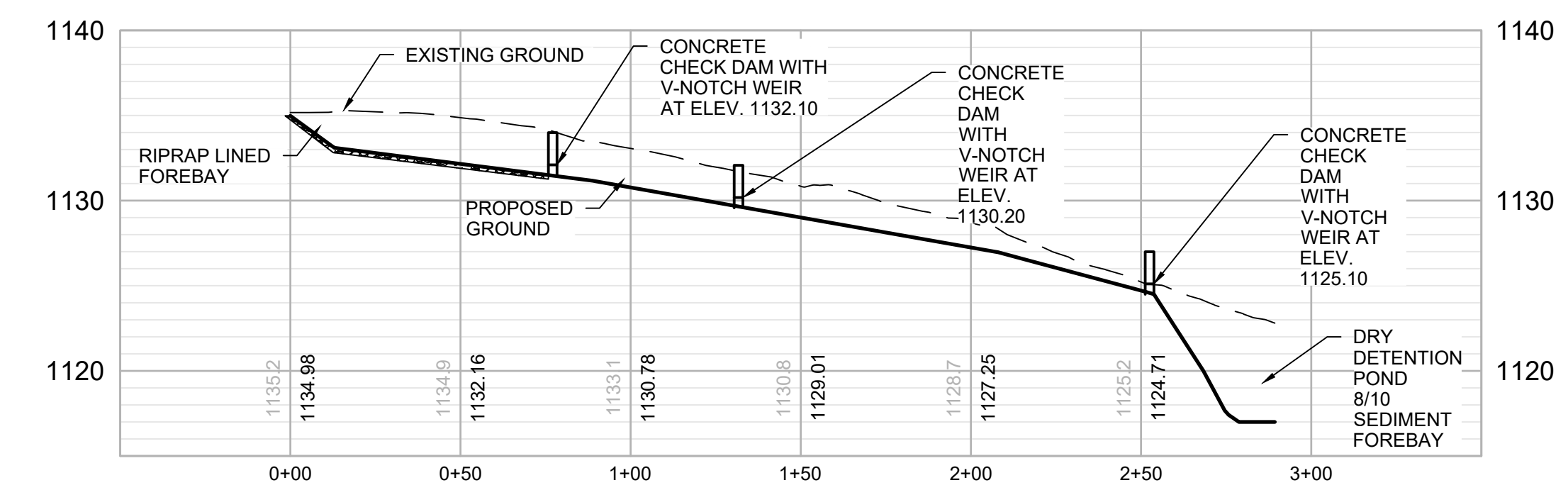
LITCHFIELD
SOLAR

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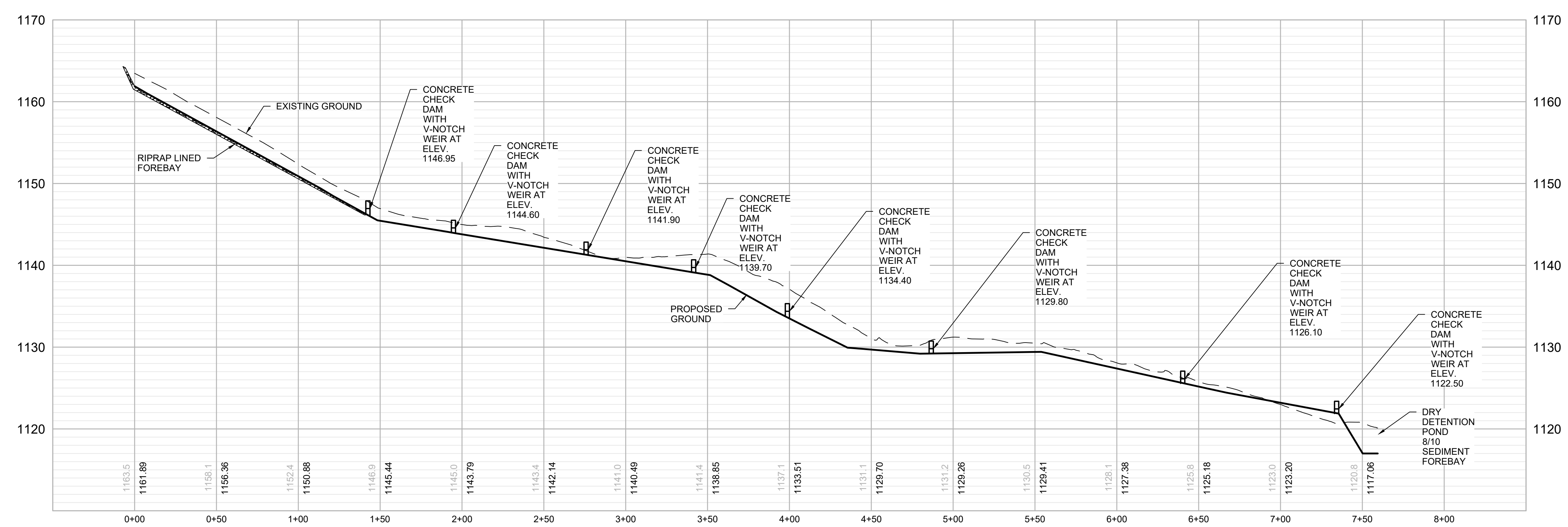


LITCHFIELD, CT

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WET SWALE 8/10c
H: 1" = 40'; V: 1" = 8'



WET SWALE 8/10d
H: 1" = 40'; V: 1" = 8'

NOTE:

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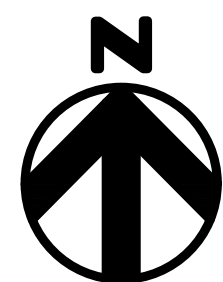
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WET SWALE PROFILES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'

DRAWING NO.
C433

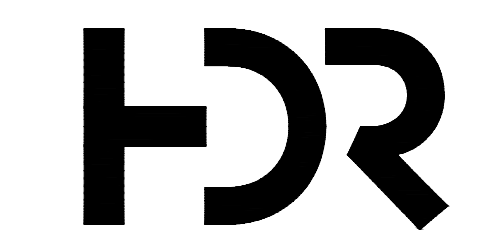
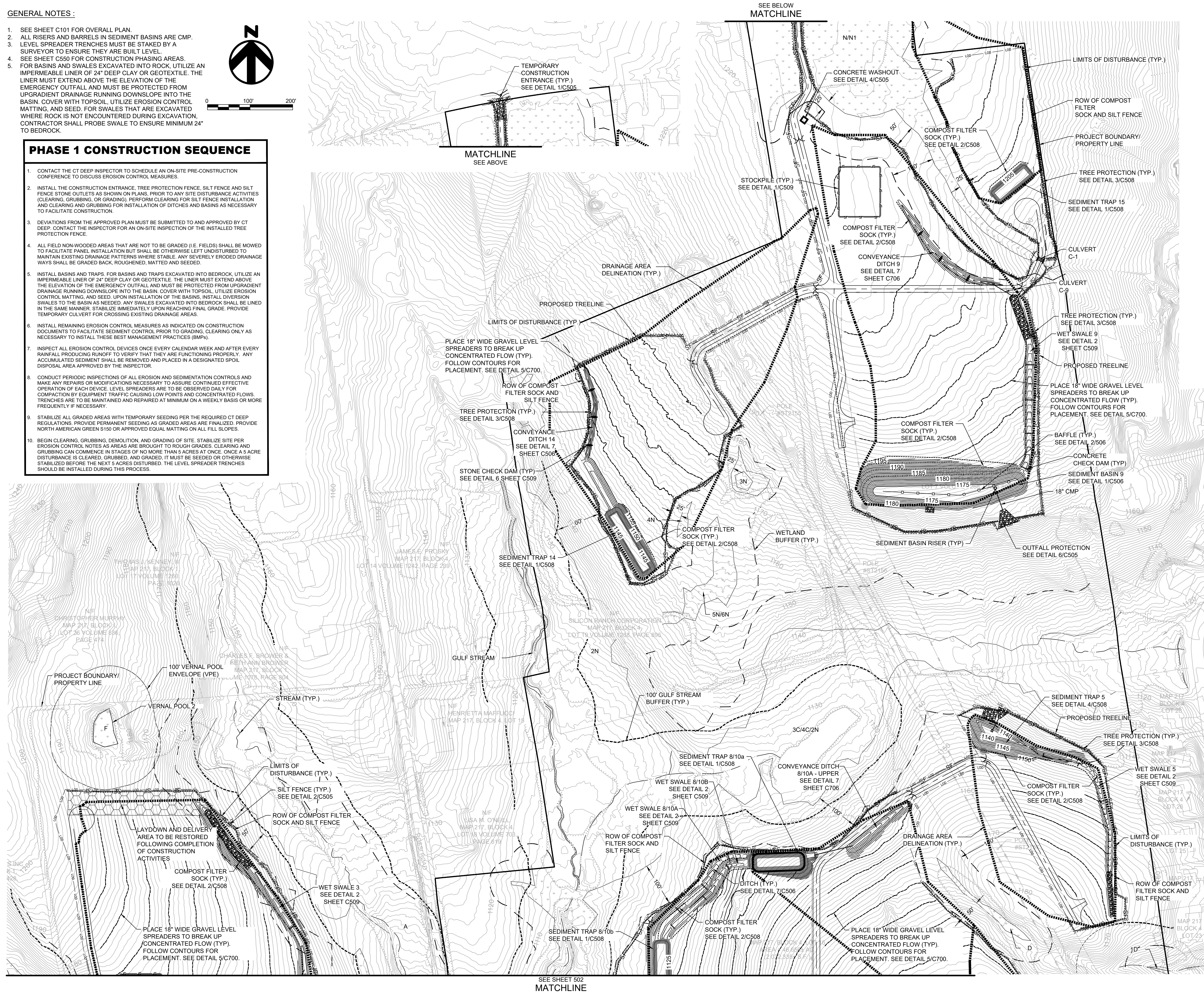
GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.
2. ALL RISERS AND BARRELS IN SEDIMENT BASINS ARE CMP.
3. LEVEL SPREADER TRENCHES MUST BE STAKED BY A SURVEYOR TO ENSURE THEY ARE BUILT LEVEL.
4. SEE SHEET C550 FOR CONSTRUCTION PHASING AREAS.
5. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



PHASE 1 CONSTRUCTION SEQUENCE

1. CONTACT THE CT DEEP INSPECTOR TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL MEASURES.
2. INSTALL THE CONSTRUCTION ENTRANCE, TREE PROTECTION FENCE, SILT FENCE AND SILT FENCE STONE OUTLETS AS SHOWN ON PLANS, PRIOR TO ANY SITE DISTURBANCE ACTIVITIES (CLEARING, GRUBBING, OR GRADING). PERFORM CLEARING FOR SILT FENCE INSTALLATION AND CLEARING AND GRUBBING FOR INSTALLATION OF DITCHES AND BASINS AS NECESSARY TO FACILITATE CONSTRUCTION.
3. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY CT DEEP. CONTACT THE INSPECTOR FOR AN ON-SITE INSPECTION OF THE INSTALLED TREE PROTECTION FENCE.
4. ALL FIELD NON-WOODED AREAS THAT ARE NOT TO BE GRADED (I.E. FIELDS) SHALL BE MOWED TO FACILITATE PANEL INSTALLATION BUT SHALL BE OTHERWISE LEFT UNDISTURBED TO MAINTAIN EXISTING DRAINAGE PATTERNS WHERE STABLE. ANY SEVERELY ERODED DRAINAGE WAYS SHALL BE GRADED BACK, ROUGHENED, MATTED AND SEEDED.
5. INSTALL BASINS AND TRAPS. FOR BASINS AND TRAPS EXCAVATED INTO BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. UPON INSTALLATION OF THE BASINS, INSTALL DIVERSION SWALES TO THE BASIN AS NEEDED. ANY SWALES EXCAVATED INTO BEDROCK SHALL BE LINED IN THE SAME MANNER. STABILIZE IMMEDIATELY UPON REACHING FINAL GRADE. PROVIDE TEMPORARY CULVERT FOR CROSSING EXISTING DRAINAGE AREAS.
6. INSTALL REMAINING EROSION CONTROL MEASURES AS INDICATED ON CONSTRUCTION DOCUMENTS TO FACILITATE SEDIMENT CONTROL. PRIOR TO GRADING, CLEARING ONLY AS NECESSARY TO INSTALL THESE BEST MANAGEMENT PRACTICES (BMPs).
7. INSPECT ALL EROSION CONTROL DEVICES ONCE EVERY CALENDAR WEEK AND AFTER EVERY RAINFALL PRODUCING RUNOFF TO VERIFY THAT THEY ARE FUNCTIONING PROPERLY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOIL DISPOSAL AREA APPROVED BY THE INSPECTOR.
8. CONDUCT PERIODIC INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AND MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE. LEVEL SPREADERS ARE TO BE OBSERVED DAILY FOR COMPACTION BY EQUIPMENT TRAFFIC CAUSING LOW POINTS AND CONCENTRATED FLOWS. TRENCHES ARE TO BE MAINTAINED AND REPAIRED AT MINIMUM ON A WEEKLY BASIS OR MORE FREQUENTLY IF NECESSARY.
9. STABILIZE ALL GRADED AREAS WITH TEMPORARY SEEDING PER THE REQUIRED CT DEEP REGULATIONS. PROVIDE PERMANENT SEEDING AS GRADED AREAS ARE FINALIZED. PROVIDE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL MATTING ON ALL FILL SLOPES.
10. BEGIN CLEARING, GRUBBING, DEMOLITION, AND GRADING OF SITE. STABILIZE SITE PER EROSION CONTROL NOTES AS AREAS ARE BROUGHT TO FINAL GRADES. CLEARING AND GRUBBING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE. ONCE A 5 ACRE DISTURBANCE IS CLEARED, GRUBBED, AND GRADED, IT MUST BE SEED OR OTHERWISE STABILIZED BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.



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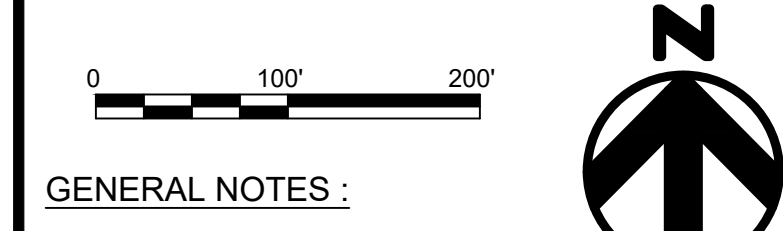
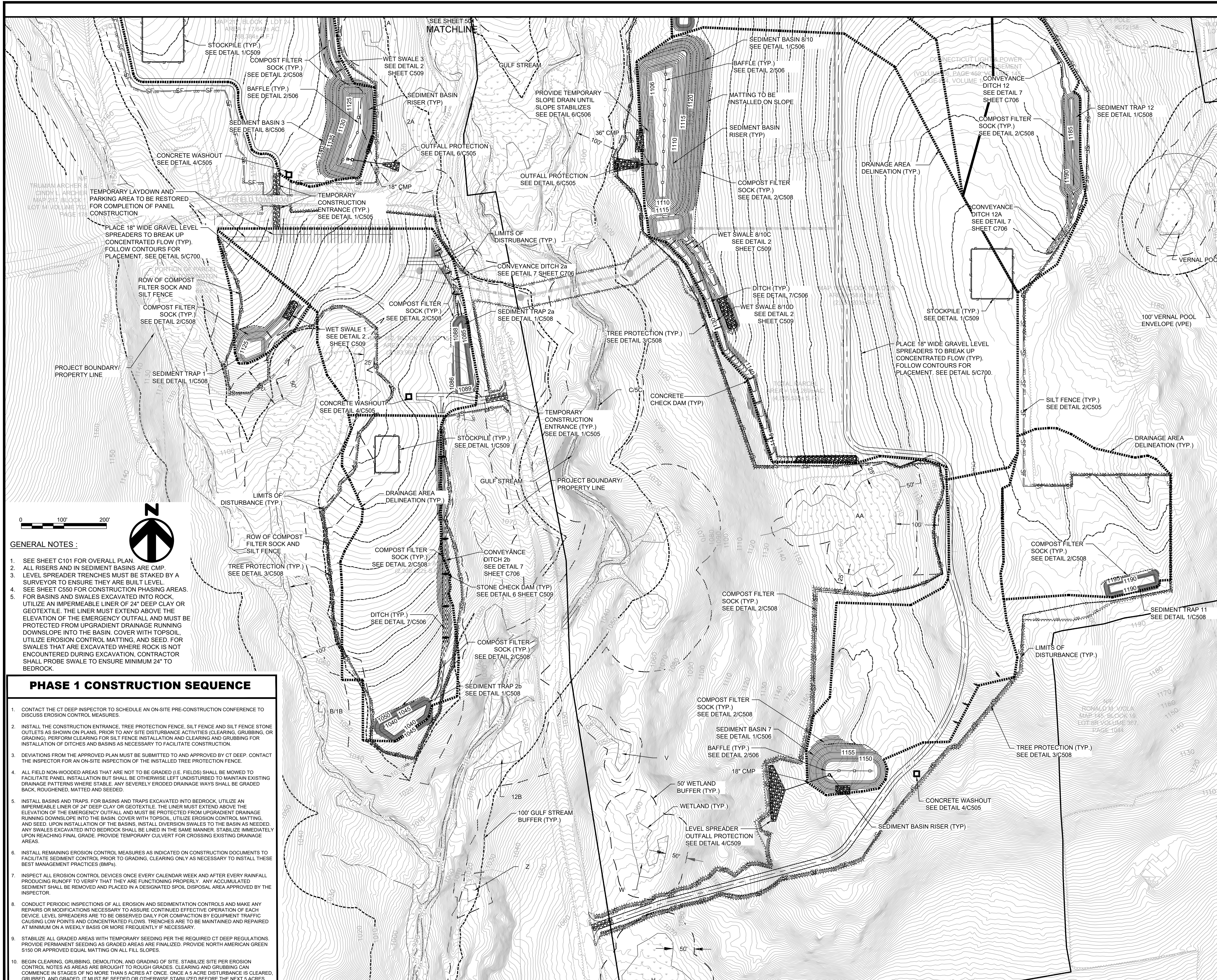
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8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

EROSION AND SEDIMENTATION CONTROL PHASE 1 - SHEET 1

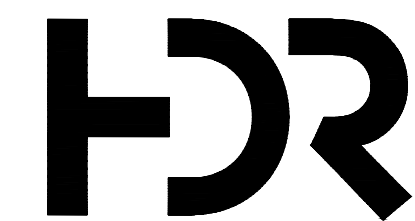
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C501



- GENERAL NOTES :**
- SEE SHEET C101 FOR OVERALL PLAN.
 - ALL RISERS AND IN SEDIMENT BASINS ARE CMP. LEVEL SPREADER TRENCHES MUST BE STAKED BY A SURVEYOR TO ENSURE THEY ARE BUILT LEVEL.
 - SEE SHEET C550 FOR CONSTRUCTION PHASING AREAS.
 - FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

- PHASE 1 CONSTRUCTION SEQUENCE**
- CONTACT THE CT DEEP INSPECTOR TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL MEASURES.
 - INSTALL THE CONSTRUCTION ENTRANCE, TREE PROTECTION FENCE, SILT FENCE AND SILT FENCE STONE OUTLETS AS SHOWN ON PLANS. PRIOR TO ANY SITE DISTURBANCE ACTIVITIES (CLEARING, GRUBBING, OR GRADING), PERFORM CLEARING FOR SILT FENCE INSTALLATION AND CLEARING AND GRUBBING FOR INSTALLATION OF DITCHES AND BASINS AS NECESSARY TO FACILITATE CONSTRUCTION.
 - DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY CT DEEP. CONTACT THE INSPECTOR FOR AN ON-SITE INSPECTION OF THE INSTALLED TREE PROTECTION FENCE.
 - ALL FIELD NON-WOODED AREAS THAT ARE NOT TO BE GRADED (I.E. FIELDS) SHALL BE MOWED TO FACILITATE PANEL INSTALLATION BUT SHALL BE OTHERWISE LEFT UNDISTURBED TO MAINTAIN EXISTING DRAINAGE PATTERNS WHERE STABLE. ANY SEVERELY ERODED DRAINAGE WAYS SHALL BE GRADED BACK, ROUGHENED, MATTED AND SEEDED.
 - INSTALL BASINS AND TRAPS. FOR BASINS AND TRAPS EXCAVATED INTO BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTINGS, AND SEED. UPON INSTALLATION OF THE BASINS, INSTALL DIVERSION SWALES TO THE BASIN AS NEEDED. ANY SWALES EXCAVATED INTO BEDROCK SHALL BE LINED IN THE SAME MANNER. STABILIZE IMMEDIATELY UPON REACHING FINAL GRADE. PROVIDE TEMPORARY CULVERT FOR CROSSING EXISTING DRAINAGE AREAS.
 - INSTALL REMAINING EROSION CONTROL MEASURES AS INDICATED ON CONSTRUCTION DOCUMENTS TO FACILITATE SEDIMENT CONTROL PRIOR TO GRADING. CLEARING ONLY AS NECESSARY TO INSTALL THESE BEST MANAGEMENT PRACTICES (BMPs).
 - INSPECT ALL EROSION CONTROL DEVICES ONCE EVERY CALENDAR WEEK AND AFTER EVERY RAINFALL PRODUCING RUNOFF TO VERIFY THAT THEY ARE FUNCTIONING PROPERLY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOIL DISPOSAL AREA APPROVED BY THE INSPECTOR.
 - CONDUCT PERIODIC INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AND MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE. LEVEL SPREADERS ARE TO BE OBSERVED DAILY FOR COMPACTION BY EQUIPMENT TRAFFIC CAUSING LOW POINTS AND CONCENTRATED FLOWS. TRENCHES ARE TO BE MAINTAINED AND REPAIRED AT MINIMUM ON A WEEKLY BASIS OR MORE FREQUENTLY IF NECESSARY.
 - STABILIZE ALL GRADED AREAS WITH TEMPORARY SEEDING PER THE REQUIRED CT DEEP REGULATIONS. PROVIDE PERMANENT SEEDING AS GRADED AREAS ARE FINALIZED. PROVIDE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL MATTING ON ALL FILL SLOPES.
 - BEGIN CLEARING, GRUBBING, DEMOLITION, AND GRADING OF SITE. STABILIZE SITE PER EROSION CONTROL NOTES AS AREAS ARE BROUGHT TO ROUGH GRADES. CLEARING AND GRUBBING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE. ONCE A 5 ACRE DISTURBANCE IS CLEARED, GRUBBED, AND GRADED, IT MUST BE SEEDED OR OTHERWISE STABILIZED BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
 TORRINGTON, CT 06790, USA
 LAT: 41.794157°N
 LON: 73.168028°W



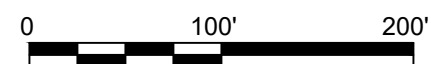
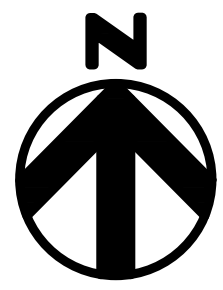
LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
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11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:
EROSION AND SEDIMENTATION CONTROL PHASE 1 - SHEET 2

PROJ. MGR. CM	PRJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.
C502



GENERAL NOTES :

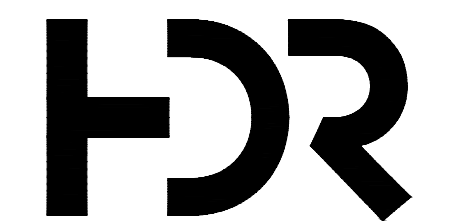
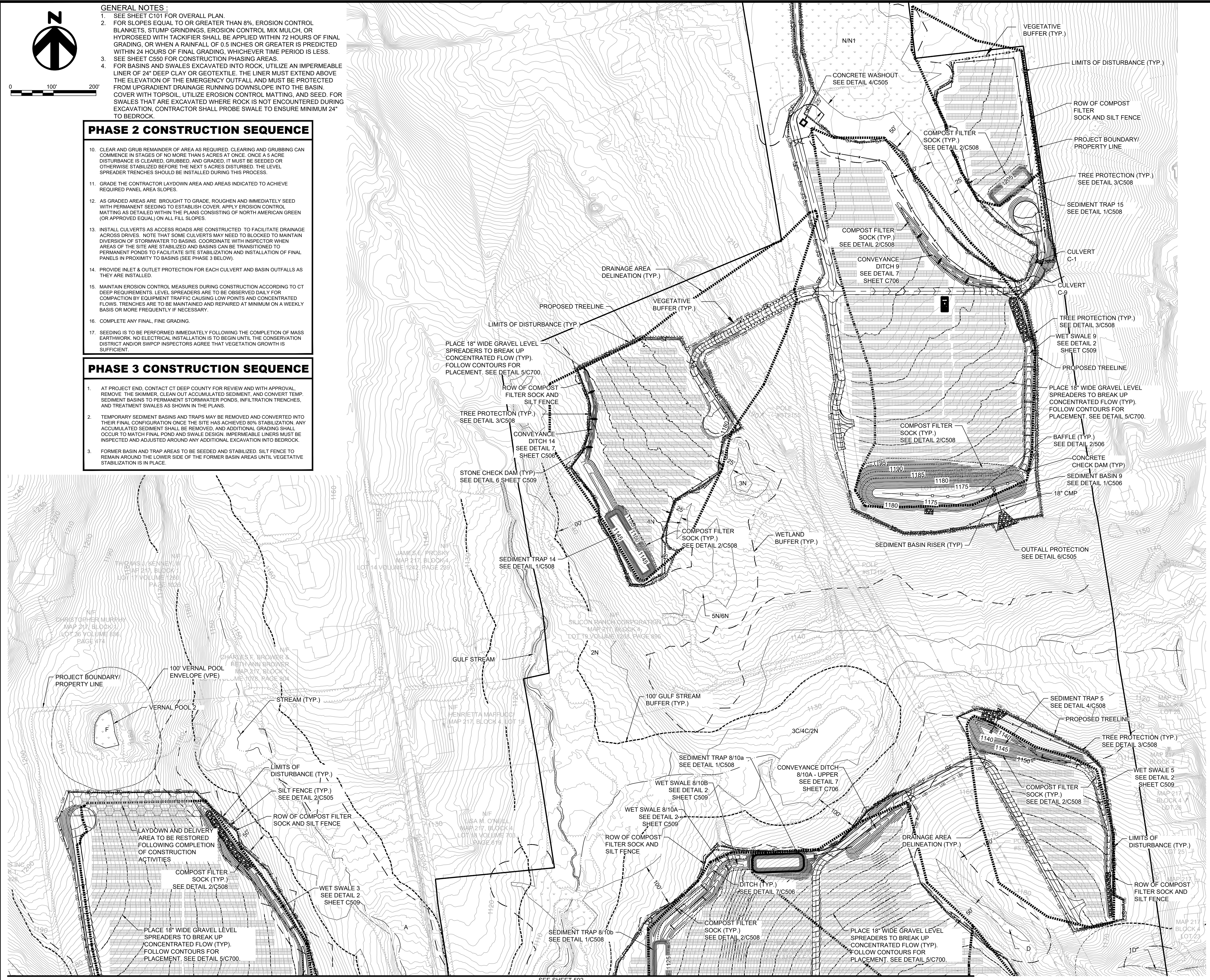
1. SEE SHEET C101 FOR OVERALL PLAN.
2. FOR SLOPES EQUAL TO OR GREATER THAN 8%, EROSION CONTROL BLANKETS, STUMP GRINDINGS, EROSION CONTROL MIX MULCH, OR HYDROSEED WITH TACKIFIER SHALL BE APPLIED WITHIN 72 HOURS OF FINAL GRADING, OR WHEN A RAINFALL OF 0.5 INCHES OR GREATER IS PREDICTED WITHIN 24 HOURS OF FINAL GRADING, WHICHEVER TIME PERIOD IS LESS.
3. SEE SHEET C550 FOR CONSTRUCTION PHASING AREAS.
4. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PHASE 2 CONSTRUCTION SEQUENCE

10. CLEAR AND GRUB REMAINDER OF AREA AS REQUIRED. CLEARING AND GRUBBING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE. ONCE A 5 ACRE DISTURBANCE IS CLEARED, GRUBBED, AND GRADED, IT MUST BE SEED OR OTHERWISE STABILIZED BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.
11. GRADE THE CONTRACTOR LAYDOWN AREA AND AREAS INDICATED TO ACHIEVE REQUIRED PANEL AREA SLOPES.
12. AS GRADED AREAS ARE BROUGHT TO GRADE, ROUGHEN AND IMMEDIATELY SEED WITH PERMANENT SEEDING TO ESTABLISH COVER. APPLY EROSION CONTROL MATTING AS DETAILED WITHIN THE PLANS CONSISTING OF NORTH AMERICAN GREEN (OR APPROVED EQUAL) ON ALL FILL SLOPES.
13. INSTALL CULVERTS AS ACCESS ROADS ARE CONSTRUCTED TO FACILITATE DRAINAGE ACROSS DRIVES. NOTE THAT SOME CULVERTS MAY NEED TO BE BLOCKED TO MAINTAIN DIVERSION OF STORMWATER TO BASINS. COORDINATE WITH INSPECTOR WHEN AREAS OF THE SITE ARE STABILIZED AND BASINS CAN BE TRANSITIONED TO PERMANENT PONDS TO FACILITATE SITE STABILIZATION AND INSTALLATION OF FINAL PANELS IN PROXIMITY TO BASINS (SEE PHASE 3 BELOW).
14. PROVIDE INLET & OUTLET PROTECTION FOR EACH CULVERT AND BASIN OUTFALLS AS THEY ARE INSTALLED.
15. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION ACCORDING TO CT DEEP REQUIREMENTS. LEVEL SPREADERS ARE TO BE OBSERVED DAILY FOR COMPACTION BY EQUIPMENT TRAFFIC CAUSING LOW POINTS AND CONCENTRATED FLOWS. TRENCHES ARE TO BE MAINTAINED AND REPAIRED AT MINIMUM ON A WEEKLY BASIS OR MORE FREQUENTLY IF NECESSARY.
16. COMPLETE ANY FINAL, FINE GRADING.
17. SEEDING IS TO BE PERFORMED IMMEDIATELY FOLLOWING THE COMPLETION OF MASS EARTHWORK. NO ELECTRICAL INSTALLATION IS TO BEGIN UNTIL THE CONSERVATION DISTRICT AND/OR SWPCP INSPECTORS AGREE THAT VEGETATION GROWTH IS SUFFICIENT.

PHASE 3 CONSTRUCTION SEQUENCE

1. AT PROJECT END, CONTACT CT DEEP COUNTY FOR REVIEW AND WITH APPROVAL REMOVE THE SKIMMER, CLEAN OUT ACCUMULATED SEDIMENT, AND CONVERT TEMP. SEDIMENT BASINS TO PERMANENT STORMWATER PONDS, INFILTRATION TRENCHES, AND TREATMENT SWALES AS SHOWN IN THE PLANS.
2. TEMPORARY SEDIMENT BASINS AND TRAPS MAY BE REMOVED AND CONVERTED INTO THEIR FINAL CONFIGURATION ONCE THE SITE HAS ACHIEVED 80% STABILIZATION. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED, AND ADDITIONAL GRADING SHALL OCCUR TO MATCH FINAL POND AND SWALE DESIGN. IMPERMEABLE LINERS MUST BE INSPECTED AND ADJUSTED AROUND ANY ADDITIONAL EXCAVATION INTO BEDROCK.
3. FORMER BASIN AND TRAP AREAS TO BE SEEDDED AND STABILIZED. SILT FENCE TO REMAIN AROUND THE LOWER SIDE OF THE FORMER BASIN AREAS UNTIL VEGETATIVE STABILIZATION IS IN PLACE.



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
 TORRINGTON, CT 06790, USA
 LAT: 41.794157°N
 LON: 73.168028°W



LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
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8	RE-ISSUED FOR PERMIT	12/07/22

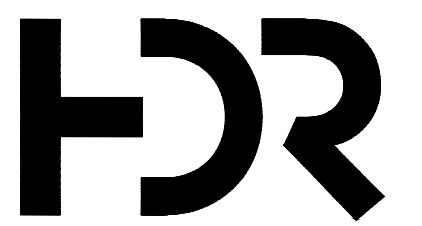
SHEET TITLE:

**EROSION AND SEDIMENTATION CONTROL
 PHASE 2- SHEET 1**

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	1:100
DRAWING NO.		

C503

SEE SHEET 502
MATCHLINE



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

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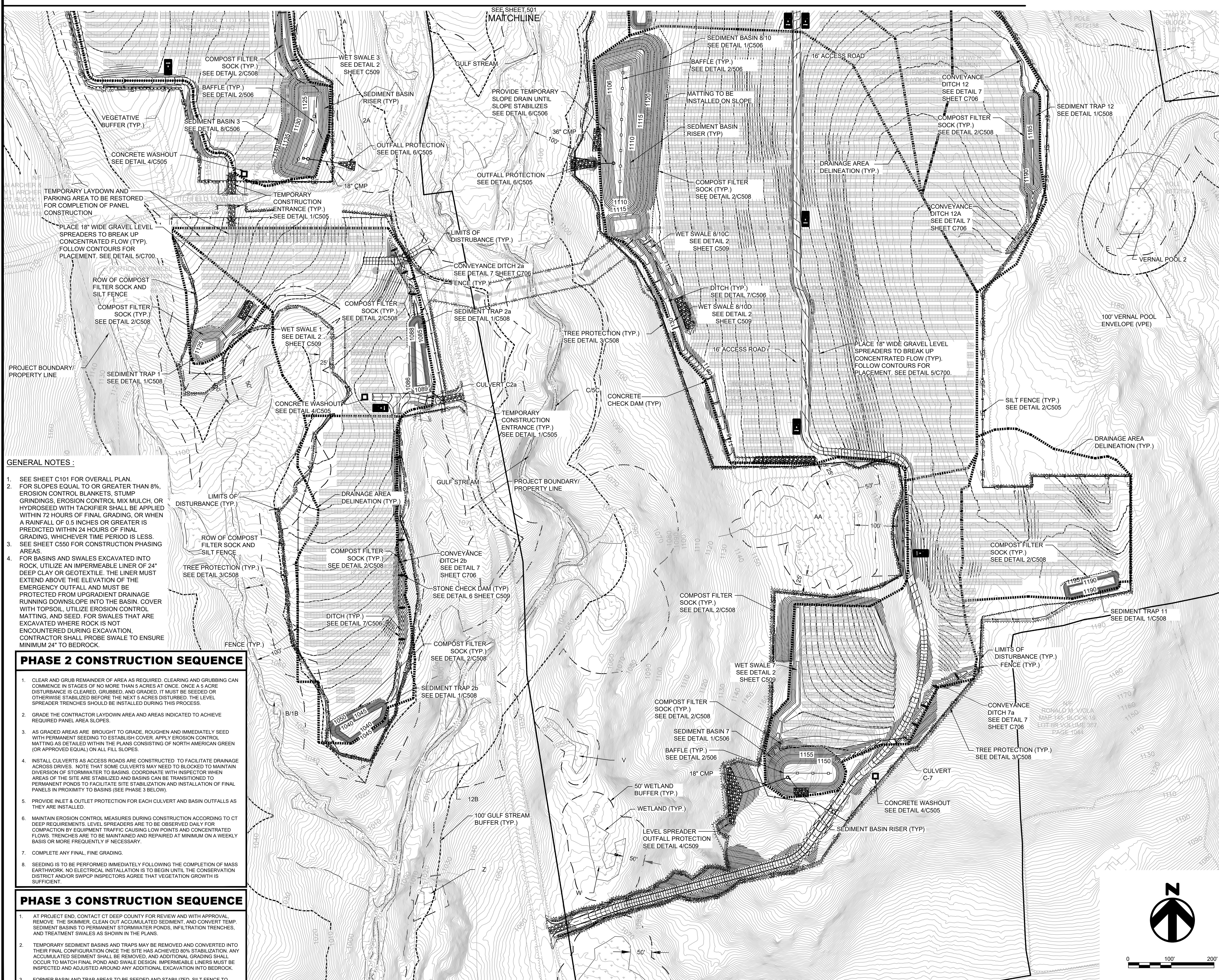
SHEET TITLE:

EROSION AND SEDIMENTATION CONTROL PHASE 2 - SHEET 2

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	1:100

DRAWING NO.

C504



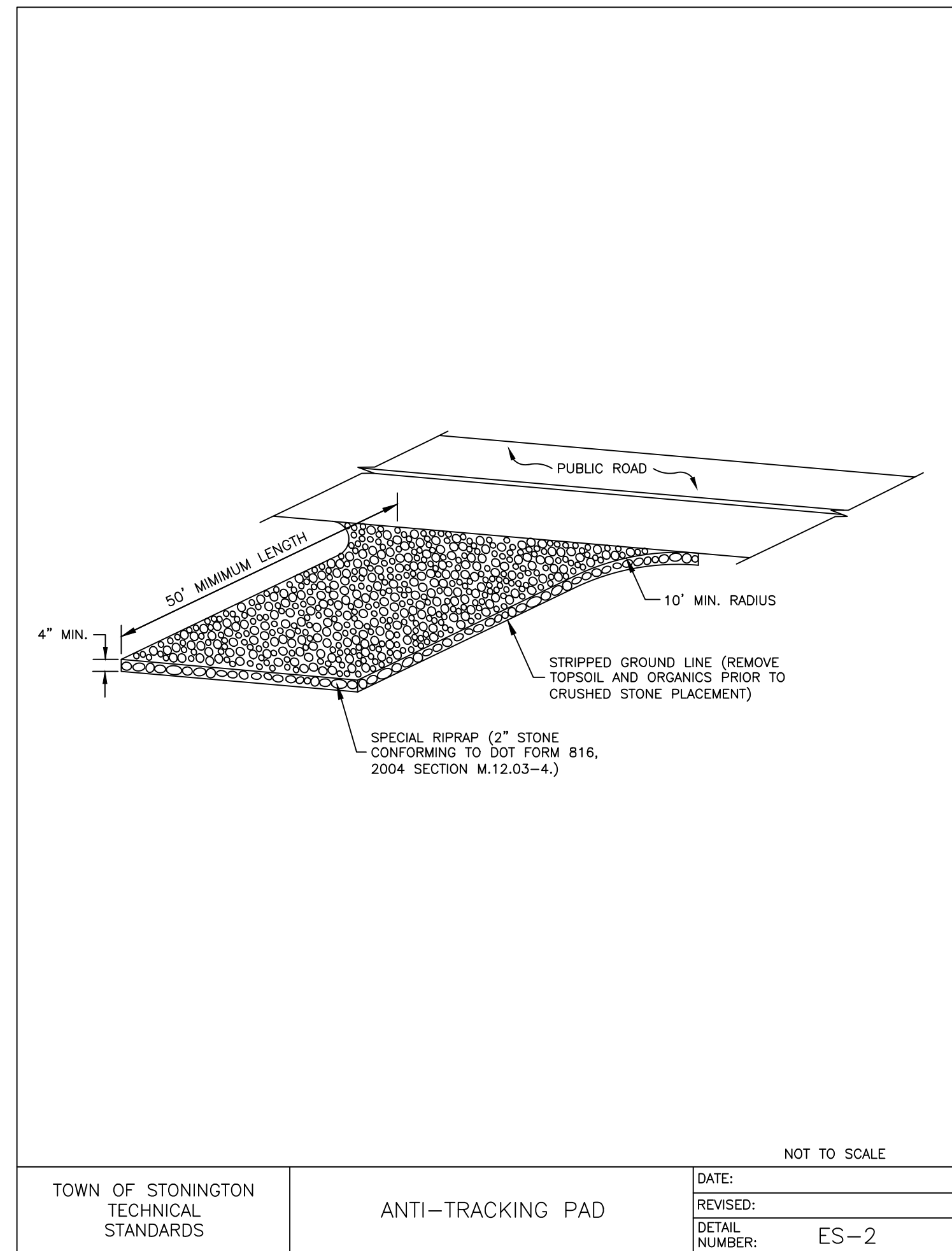
- GENERAL NOTES:**
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 - SEE SHEET C550 FOR CONSTRUCTION PHASING AREAS.
 - FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PHASE 2 CONSTRUCTION SEQUENCE

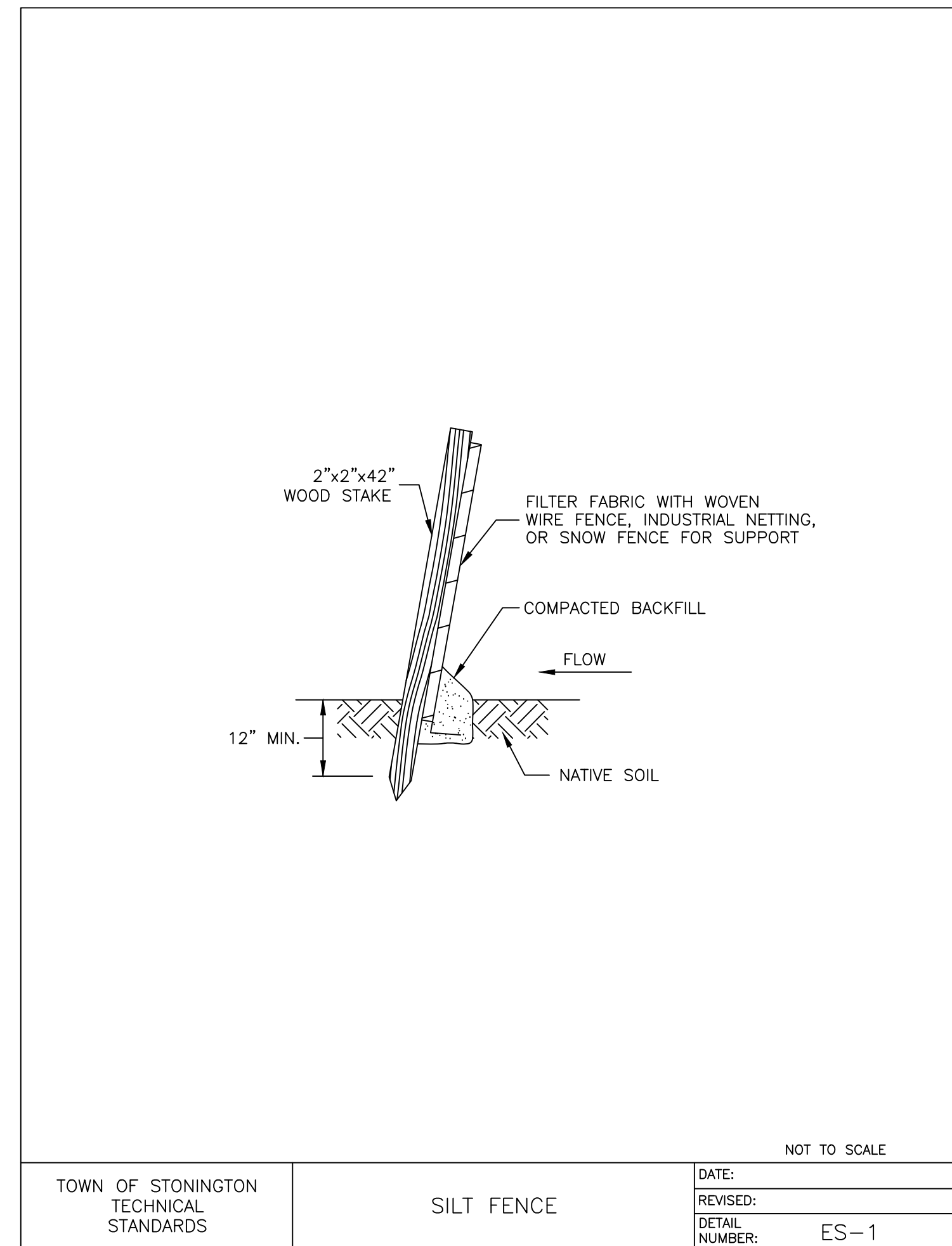
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PHASE 3 CONSTRUCTION SEQUENCE

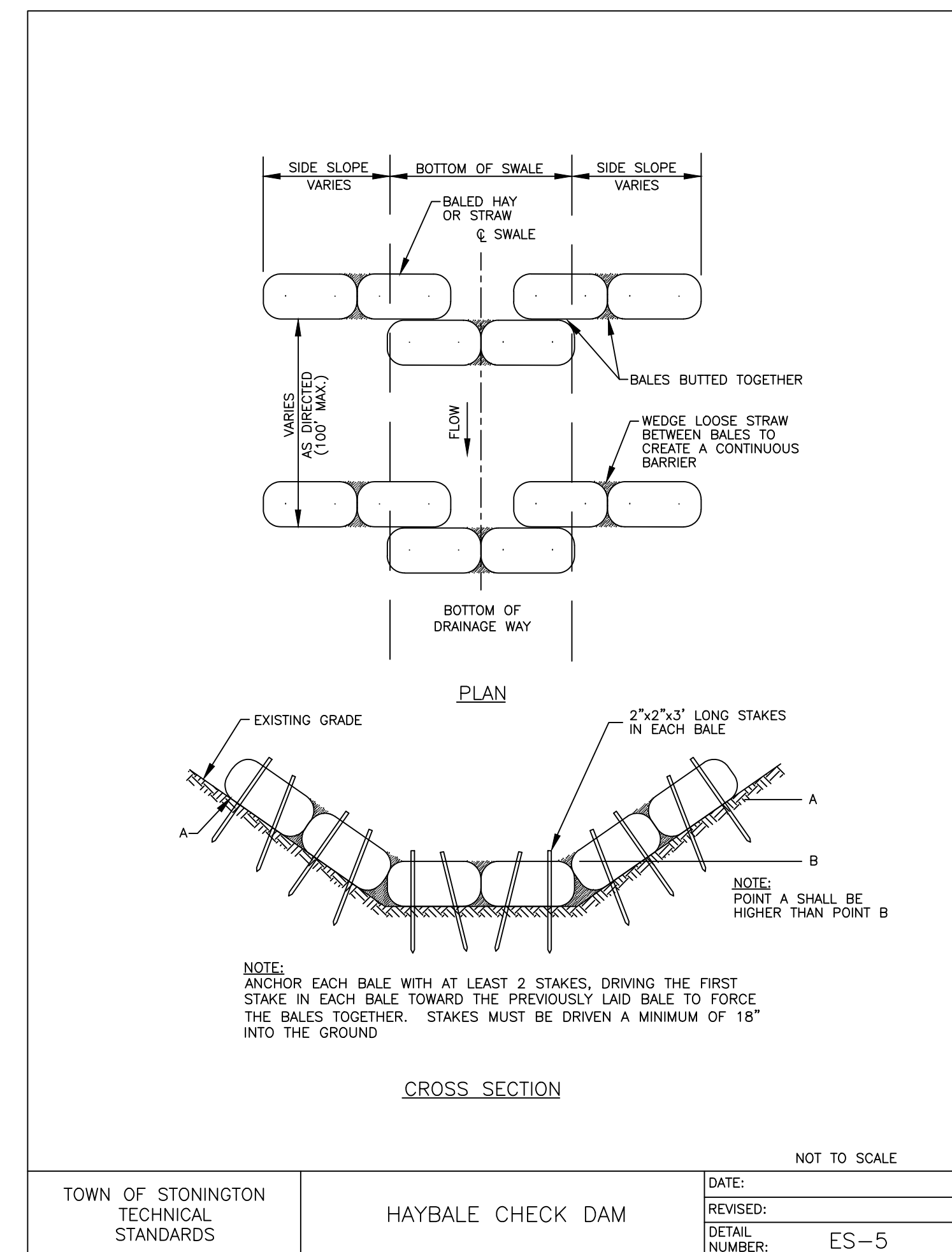
- AT PROJECT END, CONTACT CT DEEP COUNTY FOR REVIEW AND WITH APPROVAL, REMOVE THE SKIMMER, CLEAN OUT ACCUMULATED SEDIMENT, AND CONVERT TEMP. SEDIMENT BASINS TO PERMANENT STORMWATER PONDS, INFILTRATION TRENCHES, AND TREATMENT SWALES AS SHOWN IN THE PLANS.
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- FORMER BASIN AND TRAP AREAS TO BE SEEDED AND STABILIZED. SILT FENCE TO REMAIN AROUND THE LOWER SIDE OF THE FORMER BASIN AREAS UNTIL VEGETATIVE STABILIZATION IS IN PLACE.



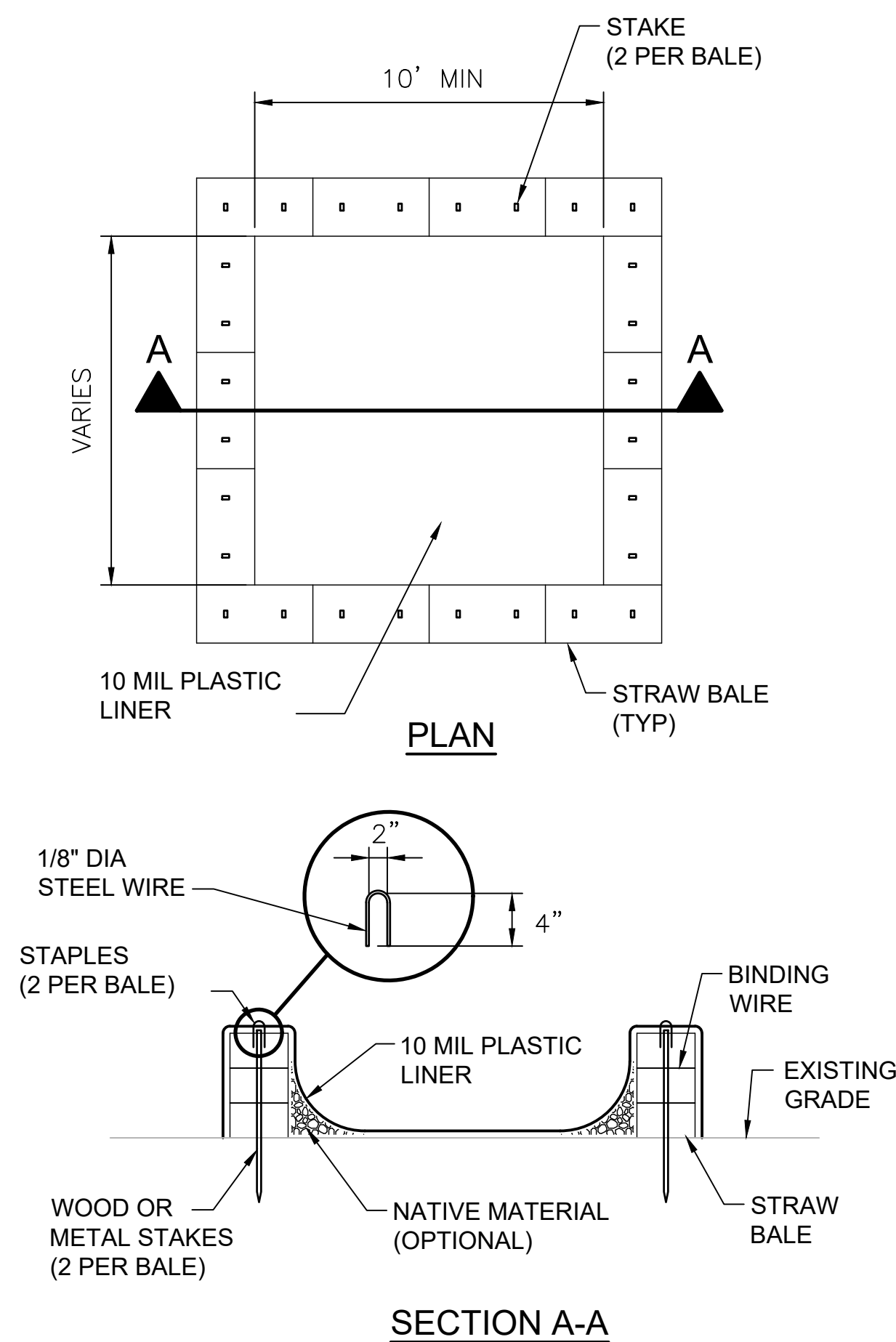
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NOT TO SCALE



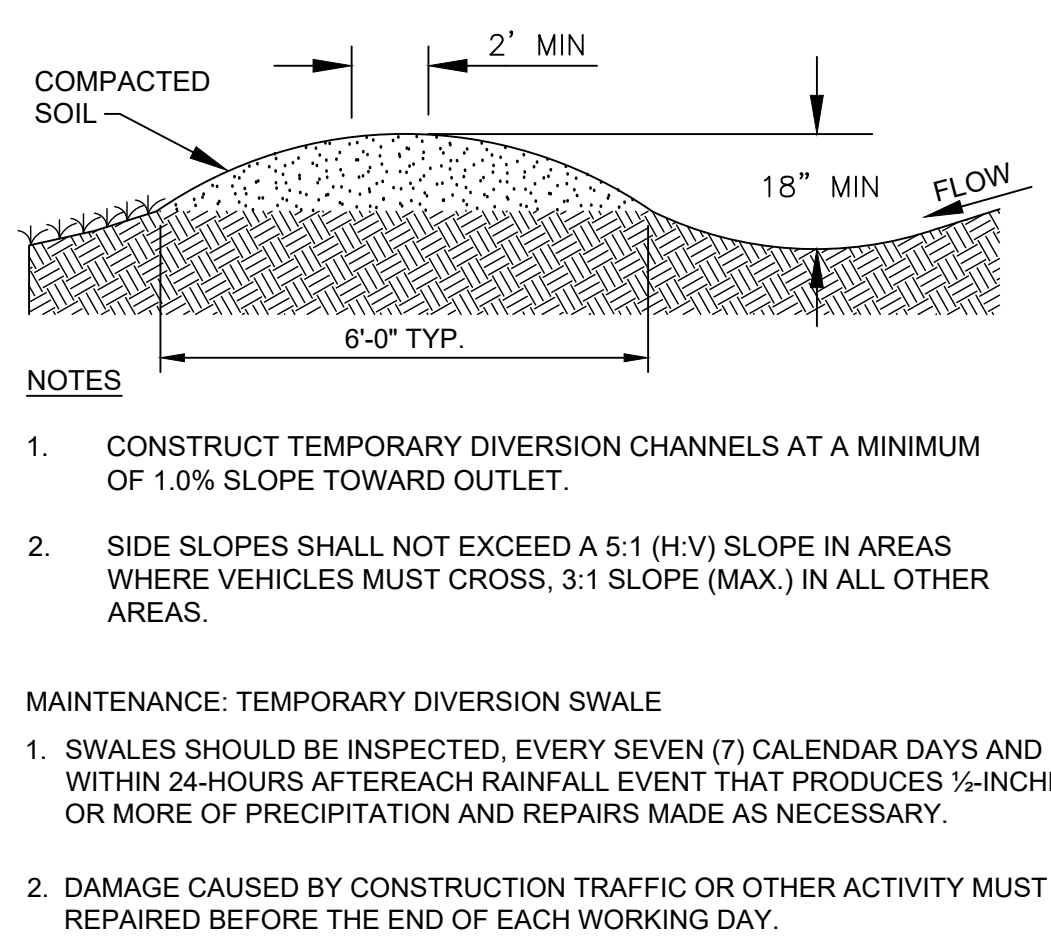
TEMPORARY SILT FENCE 2
NOT TO SCALE



TEMPORARY CHECK DAM 3
NOT TO SCALE

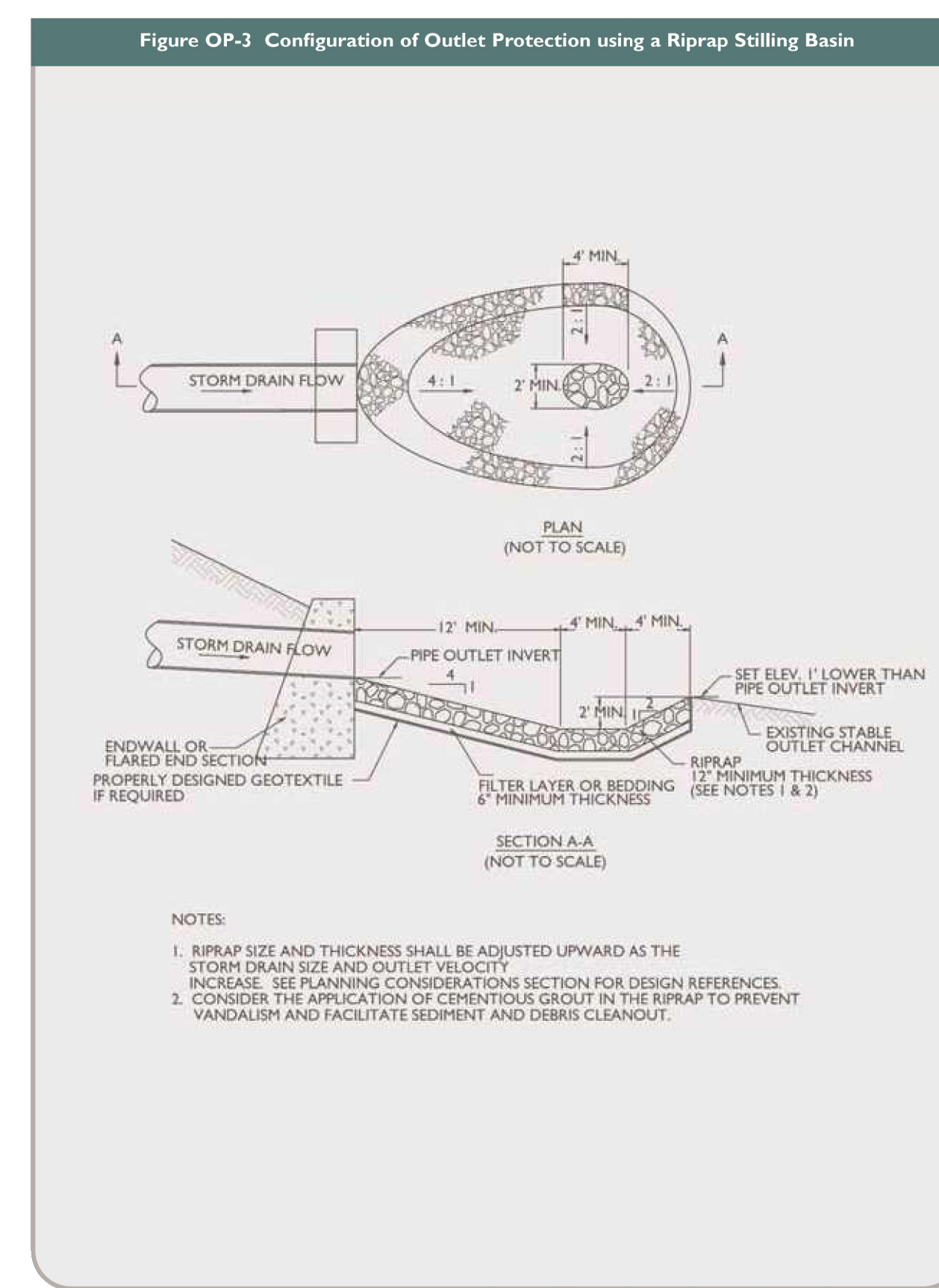


TEMPORARY CONCRETE WASHOUT 4
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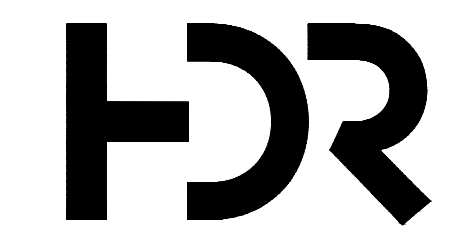


TEMPORARY DIVERSION DITCH DETAIL 5
NOT TO SCALE

Culvert #	Q (cfs)	D _o (ft)	TW (ft)	L _s (ft)	W (ft)	d ₅₀ (ft)
POND-3	37.03	2	1.69	38.3	21.3	0.58
POND-5	8.53	2	0.52	21.1	27.1	0.27
POND-8/10	113.15	4	2.31	56.0	34.4	0.75
POND-9	21.23	4	0.74	36.5	48.5	0.25



PERMANENT OUTFALL PROTECTION 6
NOT TO SCALE



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LITCHFIELD SOLAR

2-298 ROSSI RD
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LAT: 41.794157°N
LON: 73.168028°W



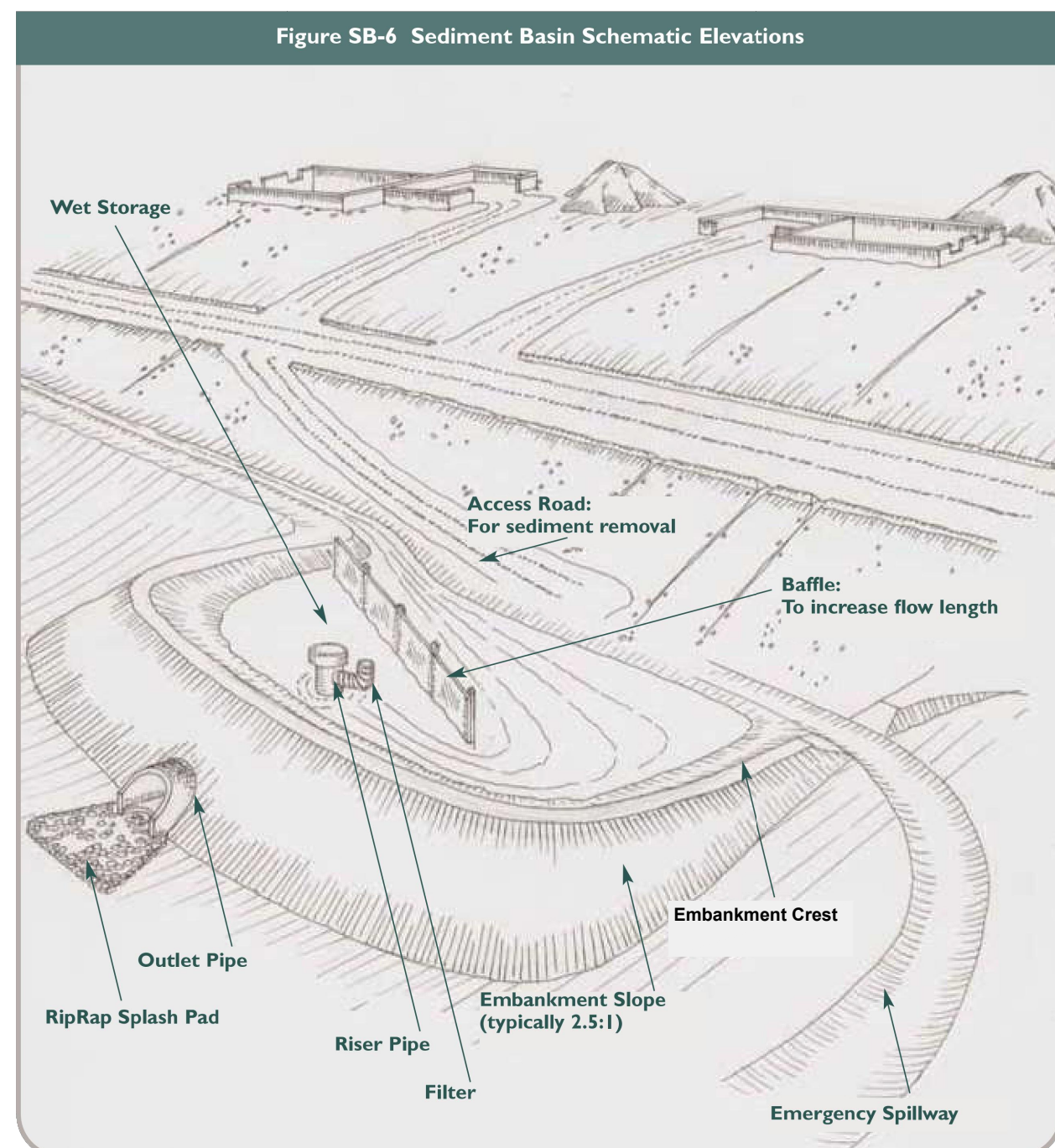
LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
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8	RE-ISSUED FOR PERMIT	12/07/22

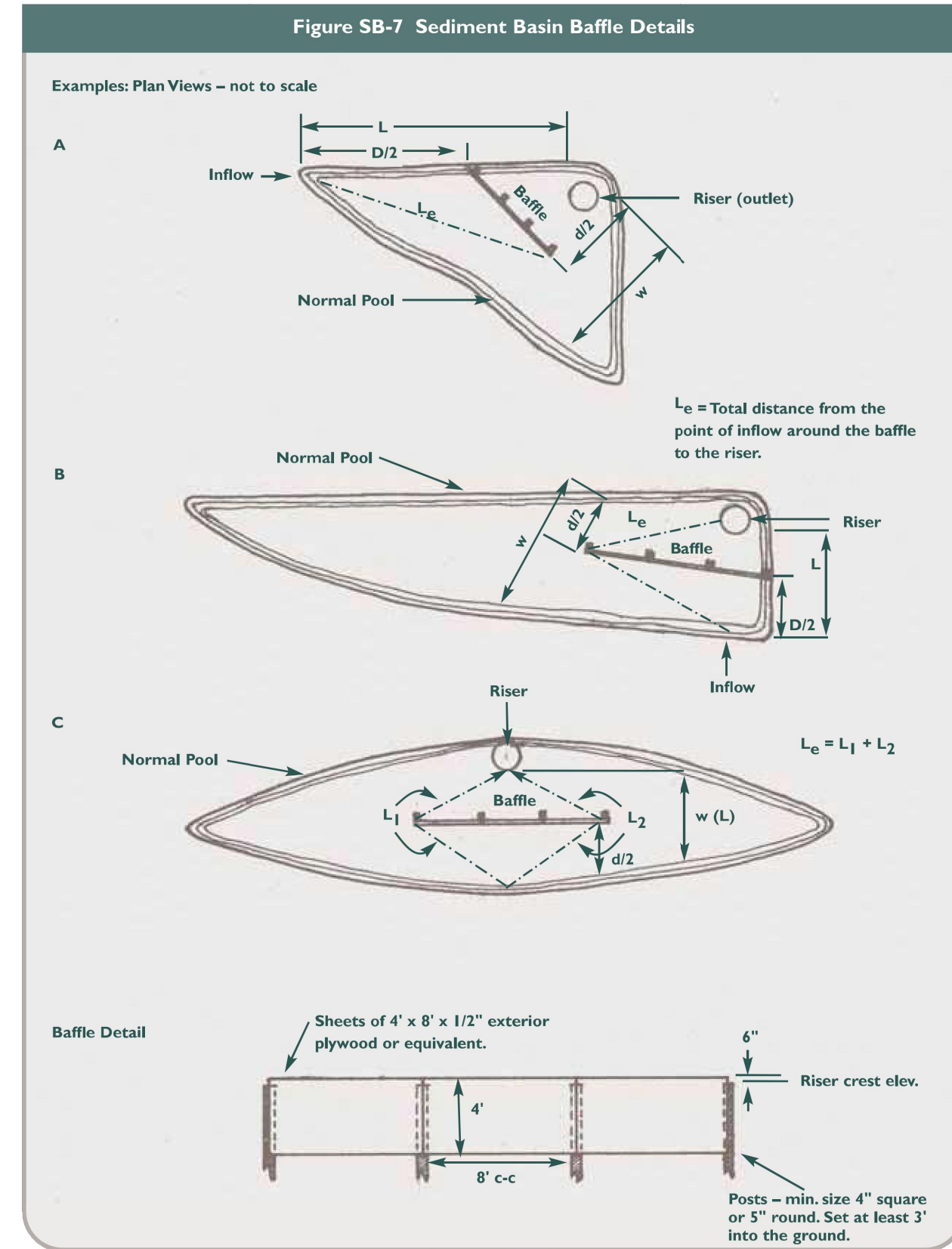
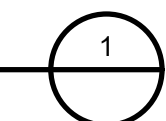
SHEET TITLE:
EROSION AND SEDIMENT CONTROL DETAILS 1

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	AS NOTED

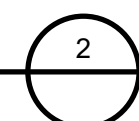
DRAWING NO. **C505**



TEMP. SEDIMENT BASINS 7, 8-10, 9
NOT TO SCALE

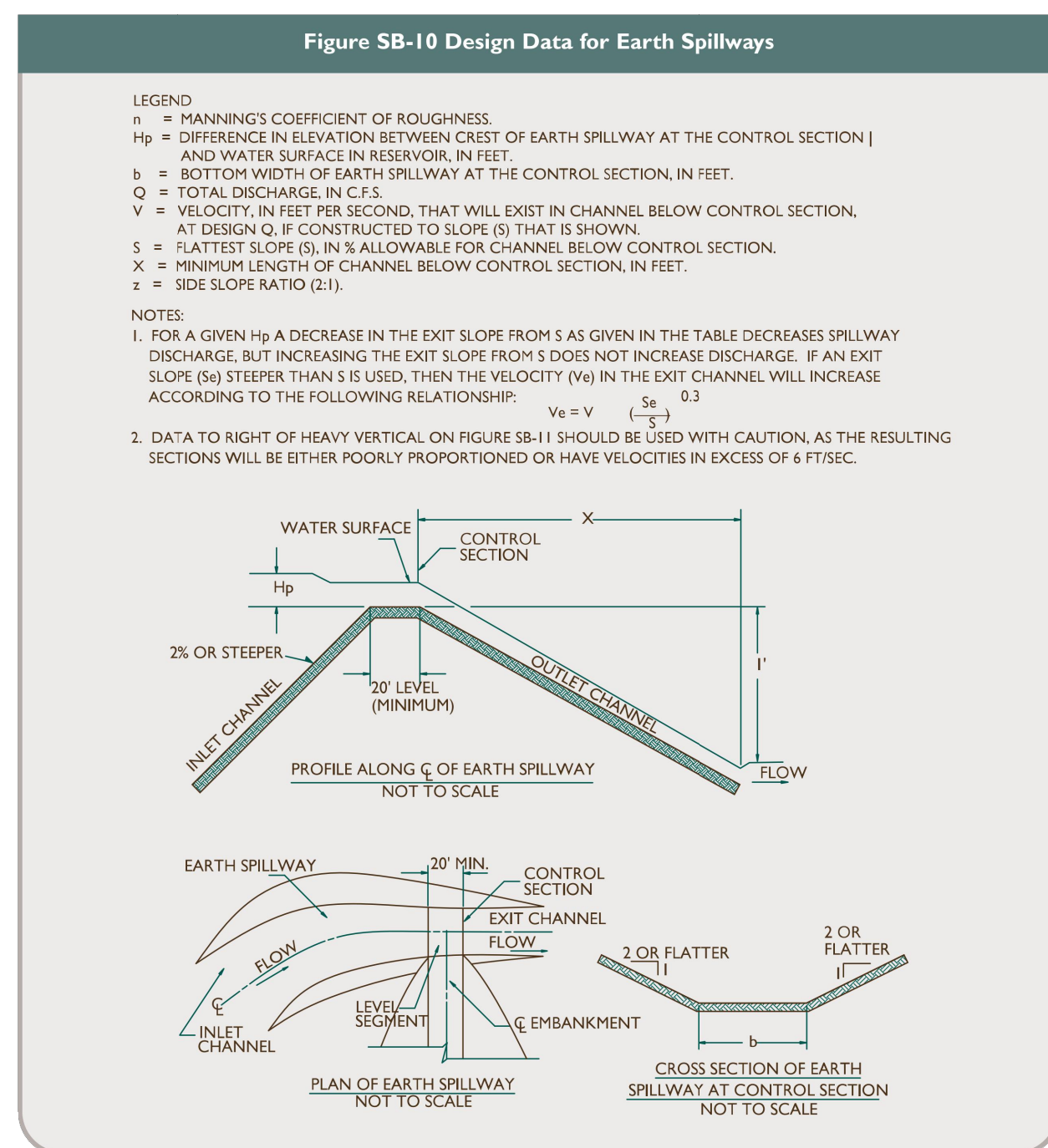
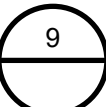


BAFFLES
NOT TO SCALE

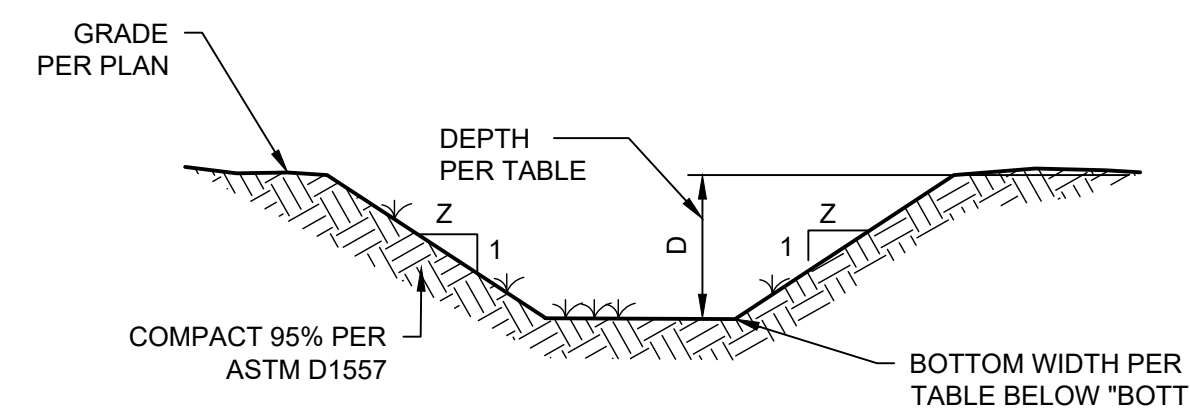
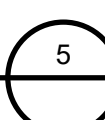


BASIN #	TOTAL DRAINAGE AREA (AC)	DEPTH OF DRY STORAGE VOLUME (FT)	DEPTH OF WET STORAGE VOLUME (FT)	10YR PEAK FLOW (CFS)	RETENTION TIME REQUIRED (MIN)	RETENTION TIME PROVIDED (MIN)	BOTTOM ELEVATION (FT)	RISER CREST ELEVATION (FT)	FILTER ORIFICE ELEVATION (FT)	EMERGENCY SPILLWAY ELEVATION (FT)	TOP OF BERM ELEVATION (FT)	HIGHWATER ELEVATION (10-YR) (FT)	RISER PIPE SIZE (INCH)	OUTLET PIPE SIZE (INCH)	OUTLET PIPE INVERT (FT)	OUTLET PIPE INVERT OUT (FT)	FILTER ORIFICE SIZE (INCH)	SKIMMER SIZE (INCH)	SKIMMER ORIFICE SIZE (INCH)
3	7.33	0.50	5.70	21.63	600	920	1122.00	1127.70	1122.00	1128.70	1130.00	1127.89	24.00	15.00	1122.00	1121.50	-	3	2.25
7	4.35	0.50	3.50	6.65	600	647	1148.00	1151.50	1148.50	1152.50	1154.00	1150.87	24.00	18.00	1148.00	1146.10	3.00	-	-
8-10	15.65	0.50	7.00	53.25	600	862	1106.00	1113.00	1108.50	1114.00	1115.00	1113.26	60.00	48.00	1108.00	1107.50	4.50	-	-
9	6.83	0.50	4.00	21.54	600	961	1175.00	1179.00	1175.00	1180.00	1181.00	1179.19	24.00	18.00	1175.00	1174.50	2.50	-	-

TEMP. SEDIMENT BASIN SPECIFICATIONS
NOT TO SCALE

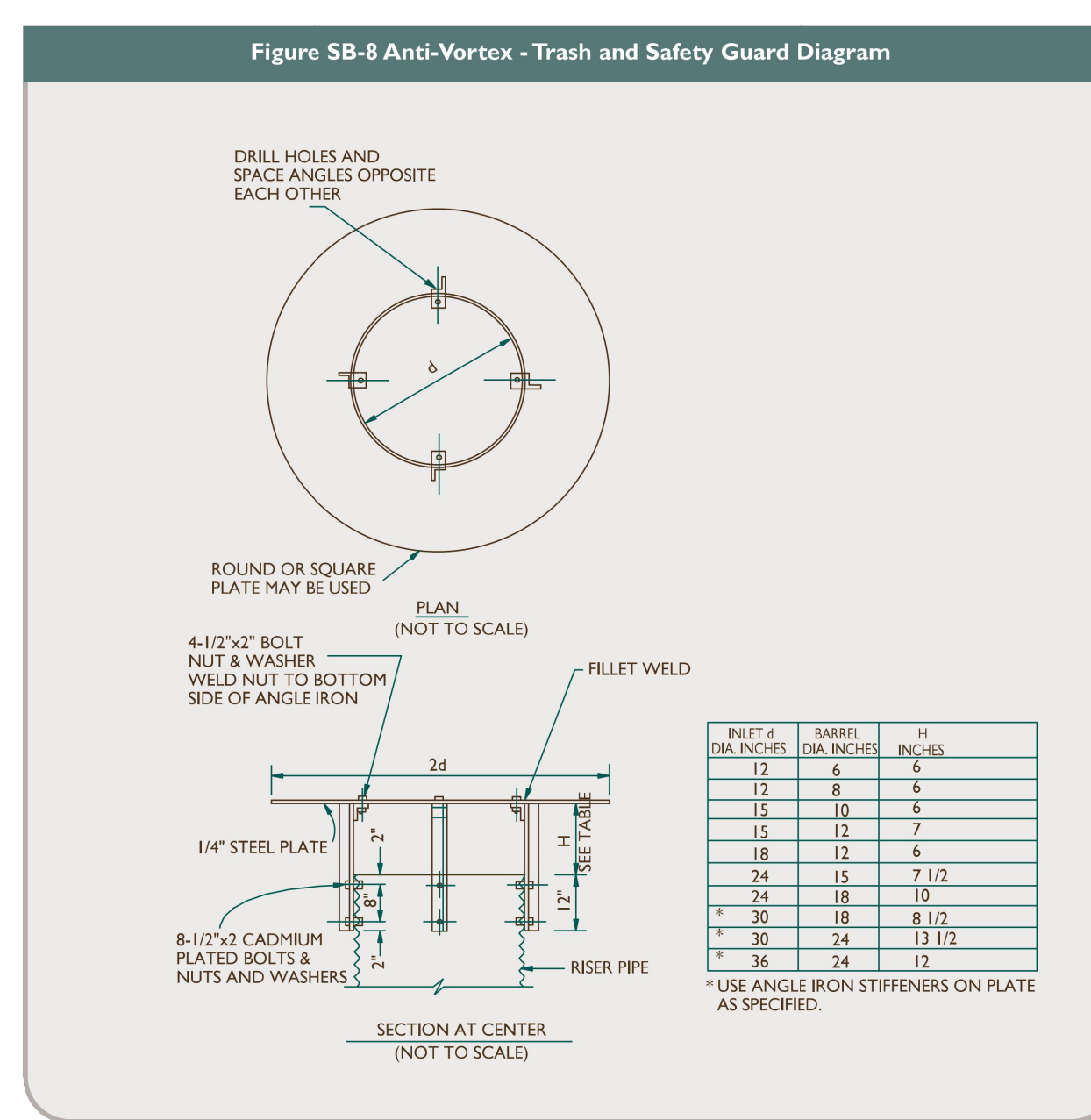


EARTH SPILLWAY
NOT TO SCALE

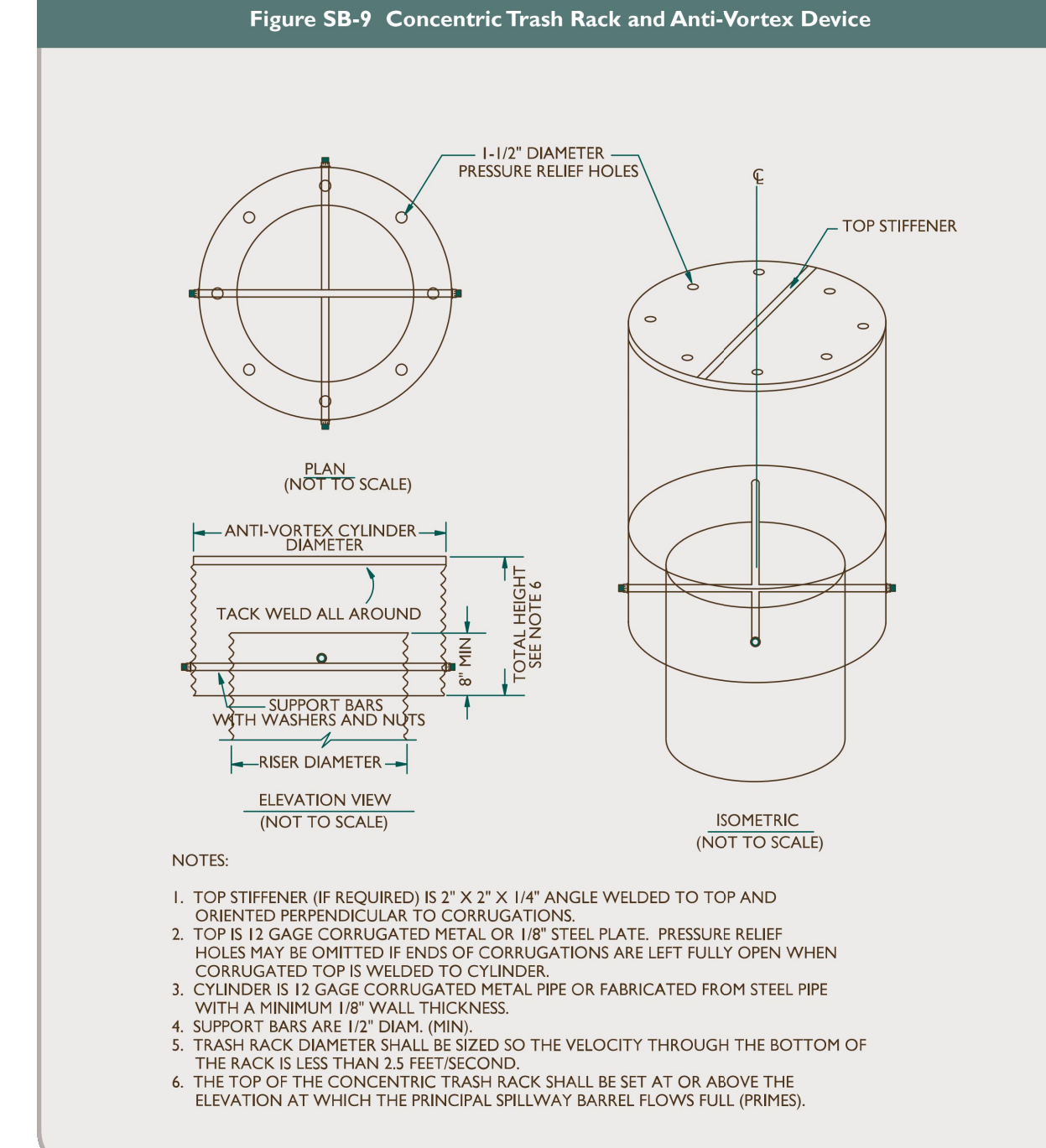
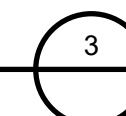


Ditch	Weighted Peak Runoff 10-yr Event (cfs)	Avg. Slope (%)	Shape	Side Slope z:1	Bot. (ft)	Depth (ft)	Top Width (ft)
2a	14.33	10.78%	Tri.	3	0	1.75	9.0
2b	11.47	6.47%	Tri.	3	0	1.50	9.0
7a	2.36	11.23%	Trap.	3	4	2.00	16.0
8/10a-upper	17.57	3.01%	Trap.	3	4	1.50	13.0
12	1.98	0.90%	Tri.	3	0	1.25	7.5
12a	1.22	8.54%	Tri.	3	0	1.00	6.0
14	15.99	4.75%	Tri.	3	0	2.00	8.0

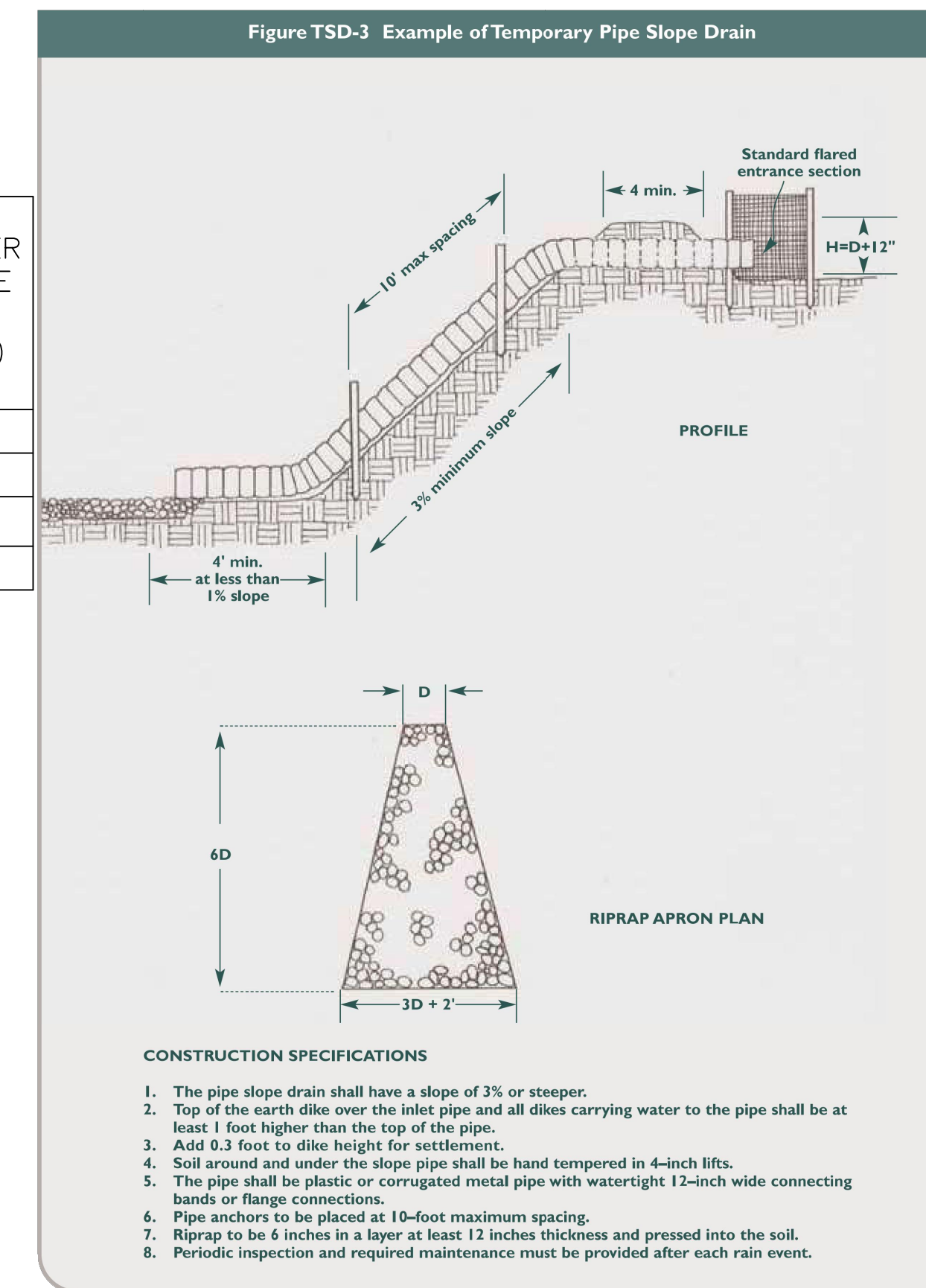
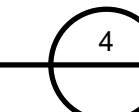
PERMANENT CONVEYANCE DITCH DETAIL
NOT TO SCALE



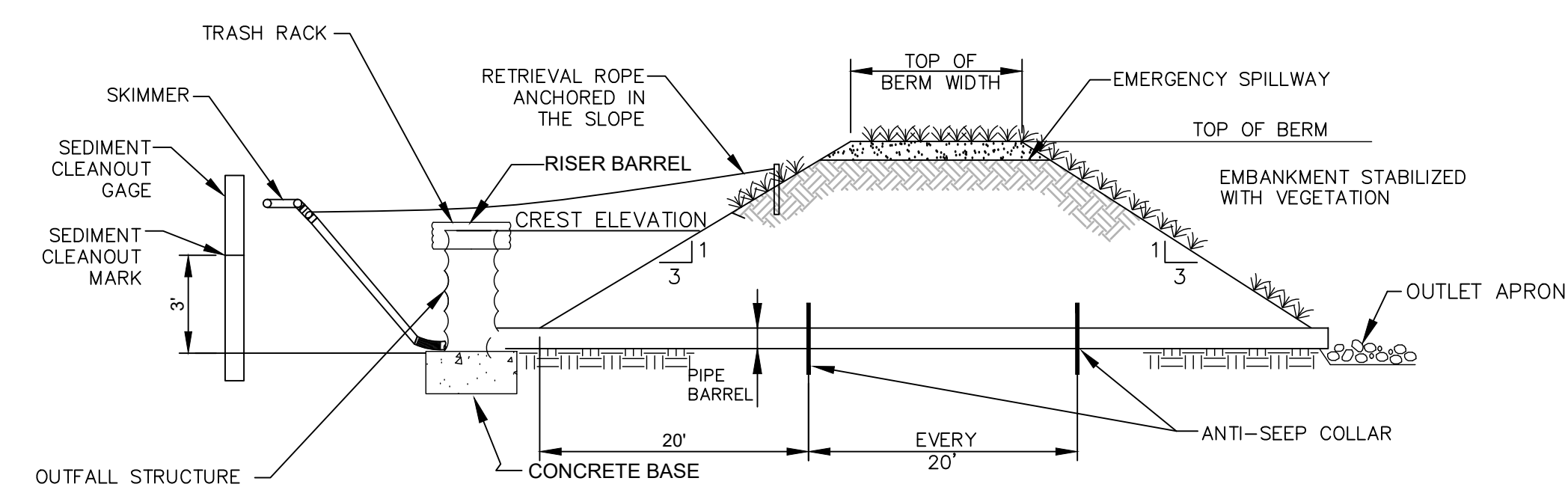
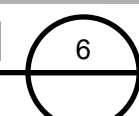
ANTI-VORTEX TRASH GUARD
NOT TO SCALE



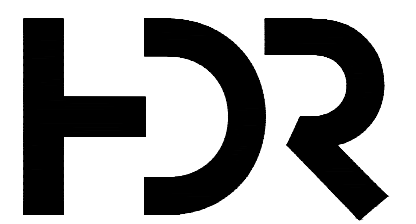
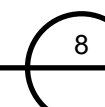
CONCENTRIC TRASH RACK
NOT TO SCALE



TEMPORARY SLOPE DRAIN
NOT TO SCALE



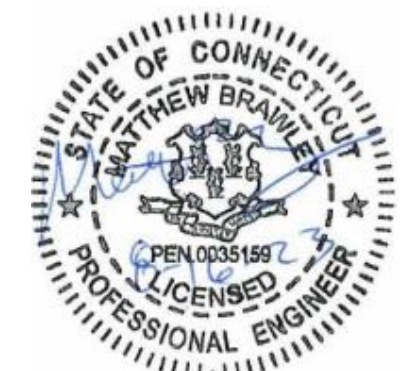
TEMPORARY SEDIMENT BASIN 3
NOT TO SCALE



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 2

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	AS NOTED
DRAWING NO.		

C506

4-Short Term Non-living Soil Protection

Temporary Erosion Control Blanket (ECB)

Definition

A manufactured blanket composed of biodegradable / photodegradable natural or polymer fibers and/or filaments that have been mechanically, structurally or chemically bound together to form a continuous matrix.

Purpose

To provide temporary surface protection to newly seeded and/or disturbed soils to absorb raindrop impact and to reduce sheet and rill erosion and to enhance the establishment of vegetation.

Applicability

- On disturbed soils where slopes are 2:1 or flatter.
- Where wind and traffic generated air flow may dislodge standard, unarmored mulches.
- May be used as a substitute for **Temporary Soil Protection**.
- May be used as a substitute for **Mulch for Seed**.

Planning Considerations

When considering the use of ECB keep in mind the blanket's capability to conform to ground surface irregularities. If the blanket is not capable of developing a continuous contact with the soil then it must be applied to a fine graded surface. Some blankets will soften and when wetted reconfirm to the ground. Also, when the ground is frozen, proper anchoring can be difficult, if not impossible.

Care must be taken to choose the type of blanket which is most appropriate for the specific need of the project. With the abundance of erosion control blankets available, it is impossible to cover all of the advantages, disadvantages and specifications of all manufactured blankets. There is no substitute for a thorough understanding of the manufacturer's instructions and recommendations in conjunction with a site visit by the erosion and sedimentation plan designer prior to and during installation to verify a product's appropriateness.

The success of temporary erosion control blankets is dependent upon strict adherence to the manufacturer's installation recommendations. As such, a final inspection should be planned to ensure that the lap joints are secure, all edges are properly anchored and all staking/stapling patterns follow the manufacturer's recommendations.

Specifications

Materials
Temporary erosion control blankets shall be composed of fibers and/or filaments that:

- are biodegradable or photodegradable within two years but without substantial degradation over the period of intended usage (five months maximum);
- are mechanically, structurally or chemically bound together to form a continuous matrix of even thickness and distribution that resist raindrop splash and when used with seedlings allows vegetation to penetrate the blanket;
- are of sufficient structural strength to withstand stretching or movement by wind or water when installed in accordance with the manufacturer's recommendations;
- are free of any substance toxic to plant growth and unprotected human skin or which interferes with seed germination;
- contain no contaminants that pollute the air or waters of the State when properly applied, and

5-4-10

2002 Connecticut Guidelines for Soil Erosion and Sediment Control

- provide either 80%-95% soil coverage when used as a substitute for **Mulch for Seed** or 100% initial soil coverage when used as a substitute for **Temporary Soil Protection** measure.

Materials shall be selected as appropriate for the specific site conditions in accordance with manufacturer's recommendations. Use of any particular temporary erosion control blanket should be supported by manufacturer's test data that confirms the blanket meets these material specifications and will provide the short term erosion control capabilities necessary for the specific project.

Site Preparation and Installation

(See Figure ECB-1)

Prepare the surface, remove protruding objects and install temporary erosion control blankets in accordance with the manufacturer's recommendations. Ensure that the orientation and anchoring of the blanket is appropriate for the site.

The blanket can be laid over areas where sprigged grass seedlings have been inserted into the soil. Where landscape plantings are planned, lay the blanket first and then plant through the blanket in accordance with Landscape Planning measure.

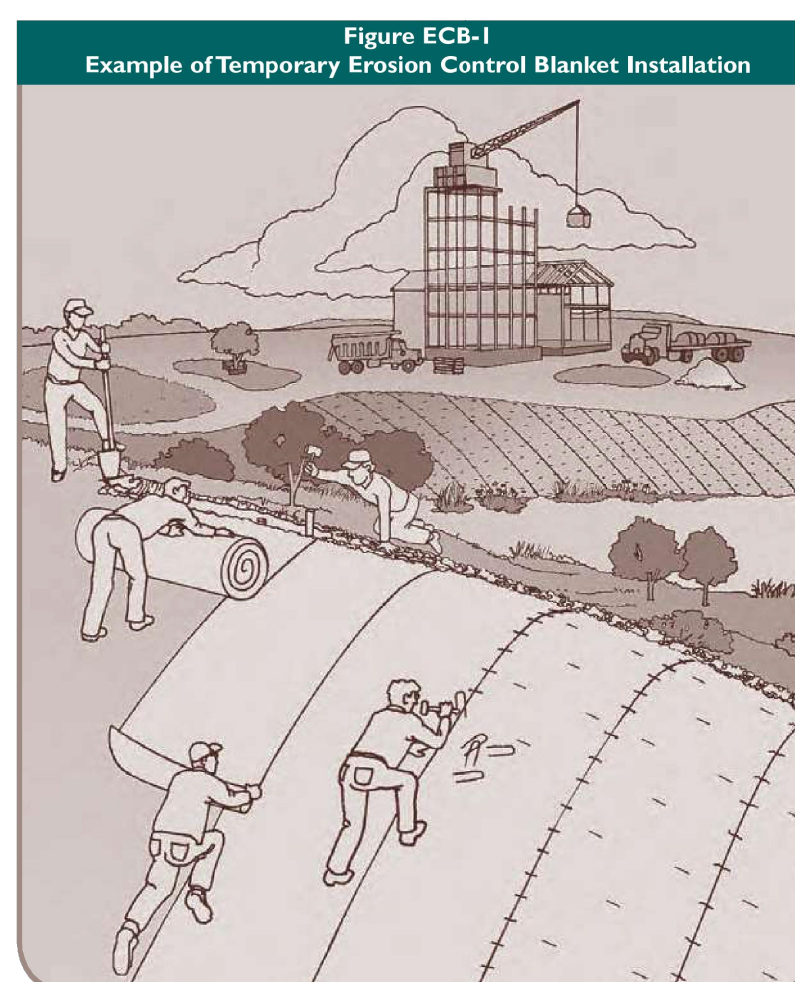
Inspect the installation to insure that all lap joints are secure, all edges are properly anchored and all staking or stapling patterns follow manufacturer's recommendations.

Maintenance

Inspect temporary erosion control blankets at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for failures. Blanket failure has occurred when (1) soils and/or seed have washed away from beneath the blanket and the soil surface can be expected to continue to erode at an accelerated rate, and/or (2) the blanket has become dislodged from the soil surface or is torn.

If washouts or breakouts occur, re-install the blanket after regrading and re-seeding, ensuring that blanket installation still meets design specifications. When repetitive failures occur at the same location, review conditions and limitations for use and determine if diversions, stone check dams or other measures are needed to reduce failure rate.

Repair any dislodged or failed blankets immediately. When used as a substitute for **Mulch for Seed**, continue to inspect as required by the seeding measure. When used as a substitute for **Temporary Soil Protection**, continue to inspect until it is replaced by other erosion control measures or until work resumes.



Temporary Erosion Control Blanket (ECB)

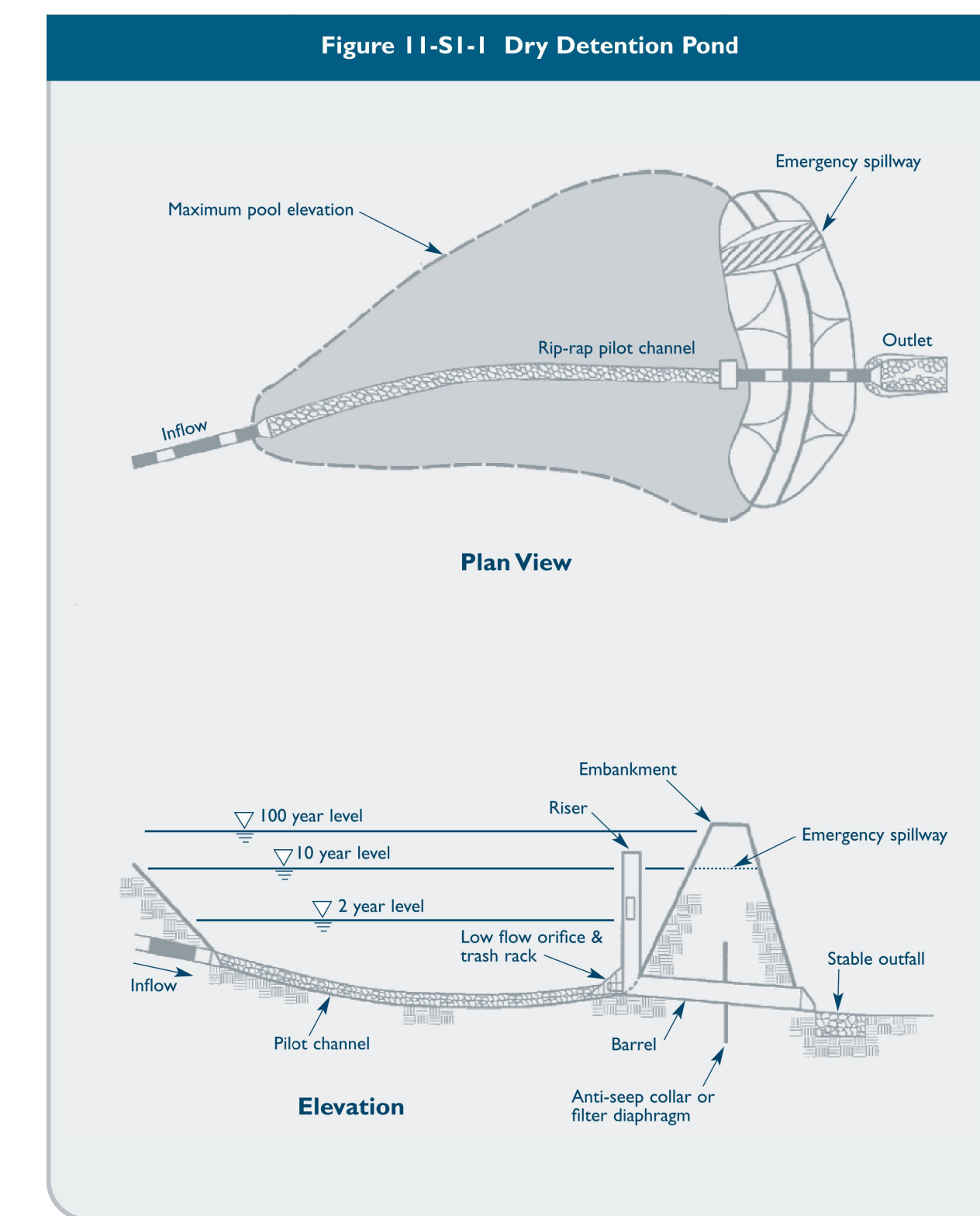
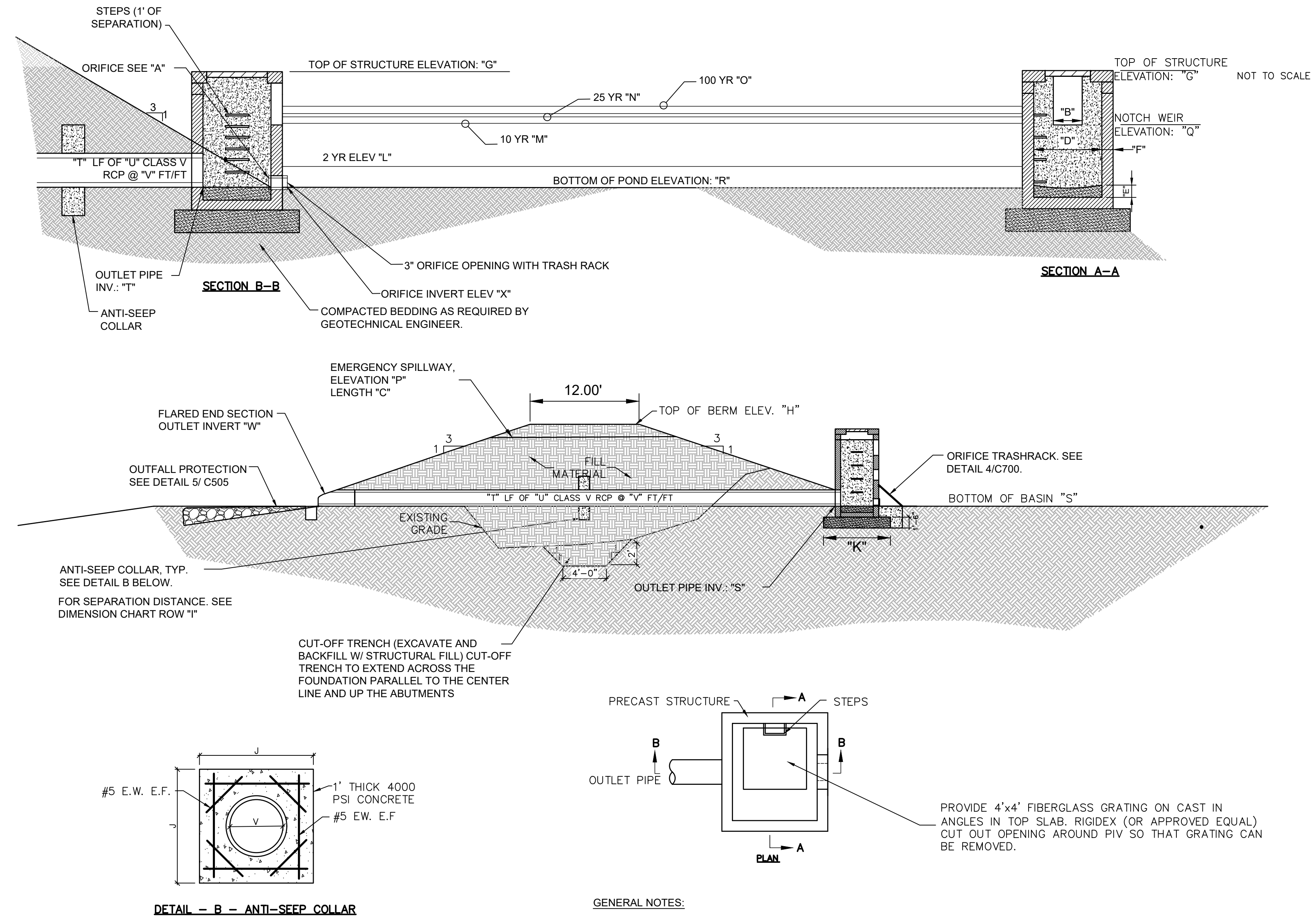
5-4-11

2002 Connecticut Guidelines for Soil Erosion and Sediment Control

TEMPORARY EROSION CONTROL MATTING

NOT TO SCALE

1



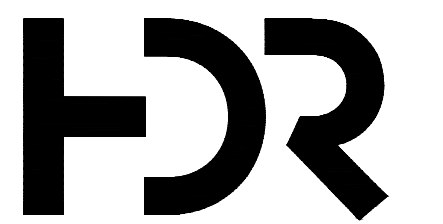
DIMENSION CHART

BASIN	POND 1	POND 3	POND 5	POND 7	POND 8/10	POND 9
A	3	3	3	3	3	3
B	5	5	5	5	5	5
C	20	40	30	30	50	20
D	4	4	4	4	6	6
E	8	8	8	8	8	8
F	6	6	6	6	6	6
G	1126.30	1134.00	1146.25	1157.00	1127.00	1182.50
H	1127.00	1135.00	1147.00	1158.00	1129.00	1184.00
I	20	20	20	20	20	20
J	4	4	4	4	4	4
K	6	6	6	6	6	6
L	1125.05	1127.90	1141.80	1149.61	1112.14	1179.25
M	1125.35	1128.70	1142.33	1151.21	1113.30	1179.72
N	1125.42	1128.99	1142.44	1151.53	1113.61	1180.03
O	1125.48	1129.69	1142.52	1151.88	1114.44	1180.33
P	1125.60	1129.50	1142.50	1152.50	1114.25	1180.00
Q	1125.00	1127.50	1142.00	1150.95	1111.25	1179.00
R	1123.00	1122.00	1140.00	1147.00	1108.00	1177.00
S	1123.00	1122.00	1140.00	1147.00	1108.00	1177.00
T	35	60	30	106	44	64
U	18	24	24	30	48	24
V	0.0286	0.0083	0.0167	0.0085	0.0114	0.0078
W	1122.00	1121.50	1139.50	1145.10	1107.50	1176.50
X	1121.00	1121.50	1137.00	1146.10	1100.00	1174.00

PERMANENT DRY DETENTION POND

NOT TO SCALE

2



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA

LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 3

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

DRAWING NO.

C507

Figure TST-2 Minimum Top Width (w) Required for Temporary Sediment Trap Embankments According to Height of Embankment (feet)

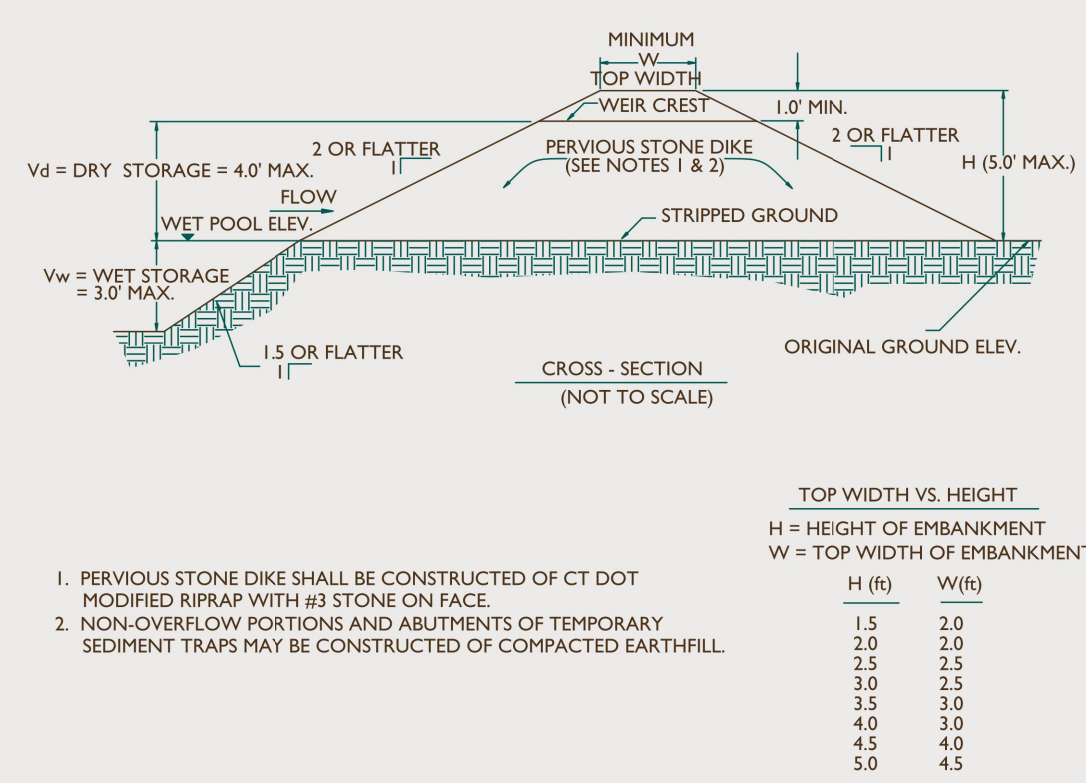
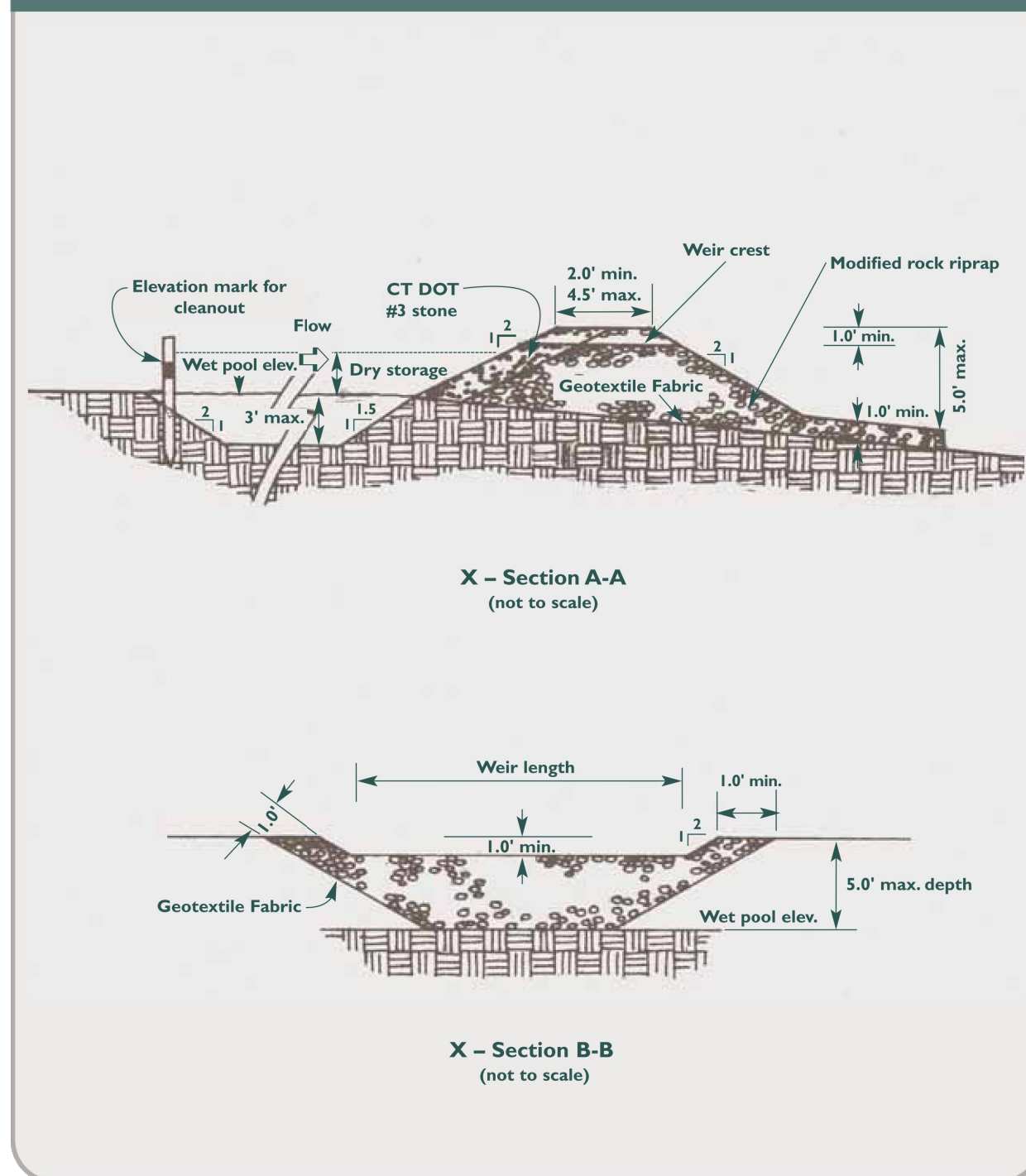
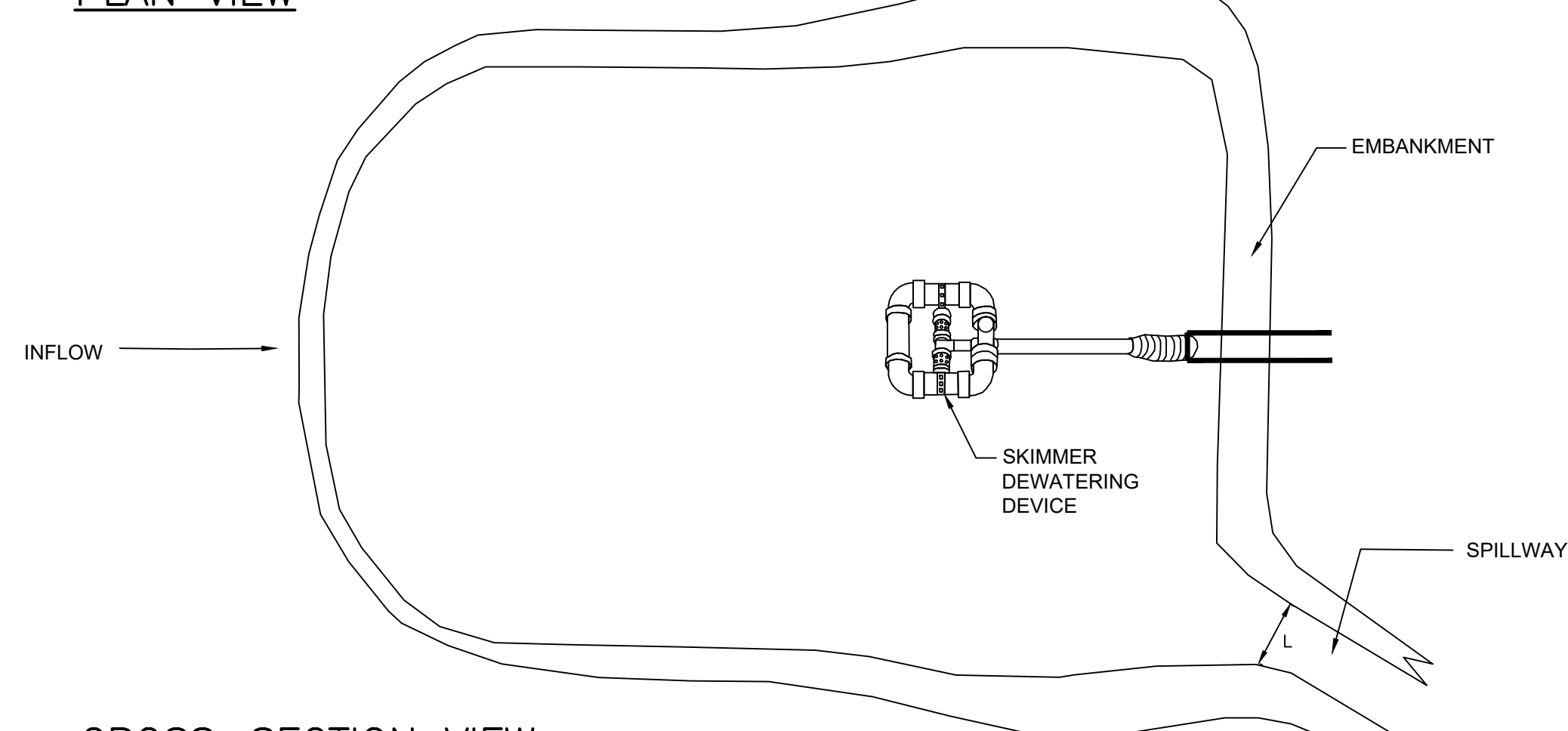


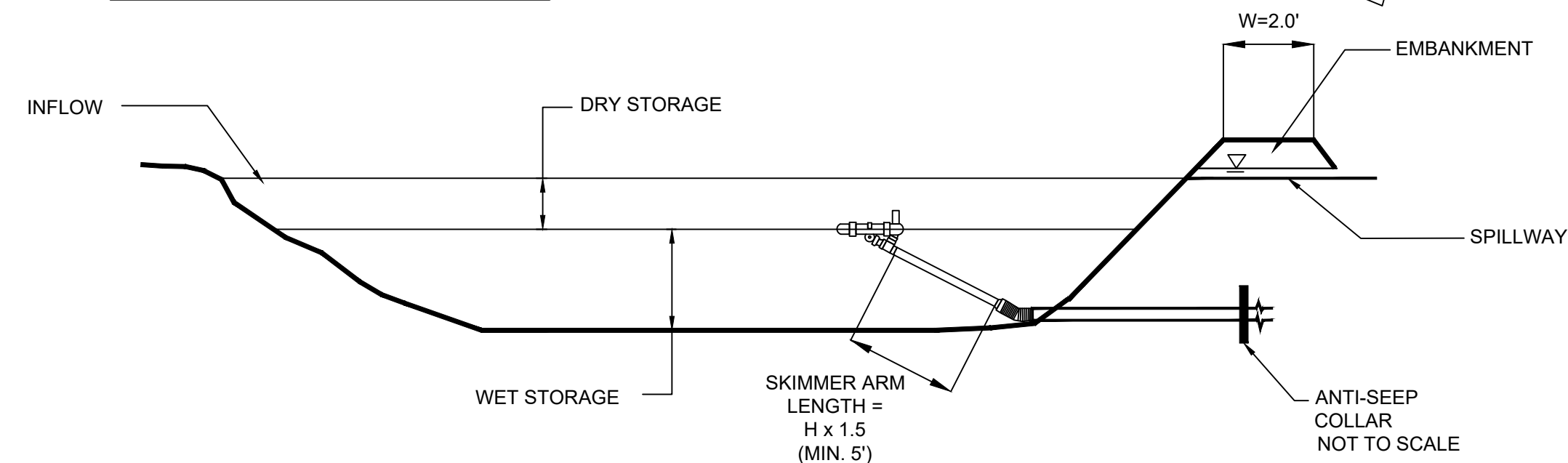
Figure TST-4 Views of a Temporary Sediment Trap Outlet



PLAN VIEW



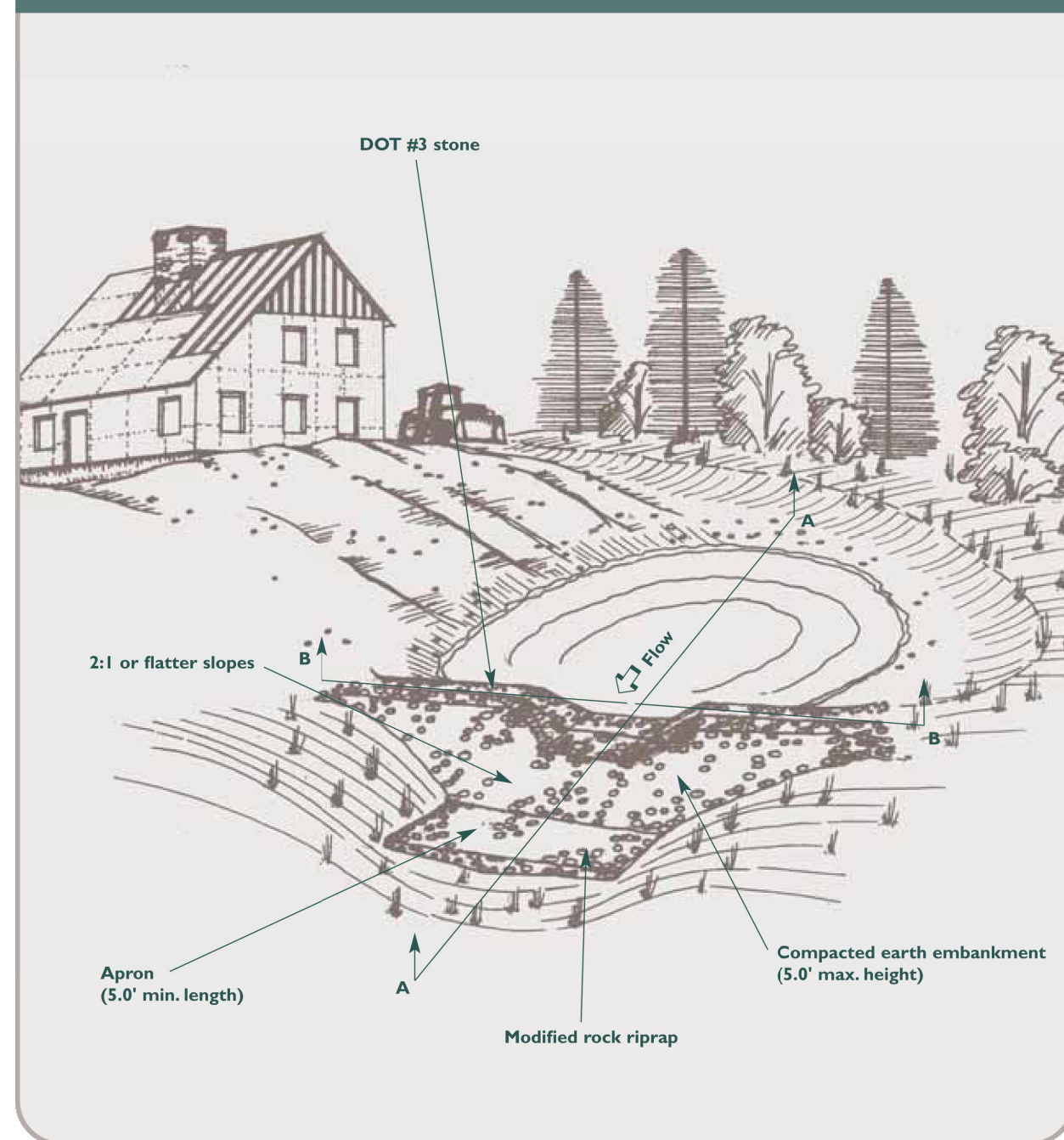
CROSS-SECTION VIEW



TRAP #	TOTAL DRAINAGE AREA (AC)	WET STORAGE REQUIRED (CF)	DRY STORAGE REQUIRED (CF)	BOTTOM ELEVATION (FT)	DEPTH OF WET STORAGE (FT)	DEPTH OF DRY STORAGE (FT)	TOP OF BERM ELEVATION (FT)	TOP WIDTH OF EMBANKMENT	WET STORAGE PROVIDED (CF)	DRY STORAGE PROVIDED (CF)
T-1	0.76	1,376	1,376	1247	1.0	1.0	1126	2.0	1,443	1,909
T-2a	3.85	6,972	6,972	1084	2.35	1.65	1089	4.5	7,267	7,033
T-2b	3.88	7,026	7,026	1040	2.3	1.7	1045	4.5	7,270	7,176
T-8/10a	3.55	6,428	6,428	1136	2.3	1.7	1141	4.5	6,664	6,603
T-8/10b	3.32	6,012	6,012	1122	2.3	1.7	1127	3.0	6,664	6,603
T-11	3.14	5,686	5,686	1189	2.3	1.7	1194	2.0	5,933	5,989
T-12	3.18	5,758	5,758	1184	2.5	1.5	1189	2.0	7,228	6,667
T-14	4.60	8,330	8,330	1144	2.3	1.7	1149	2.0	8,531	8,512
T-15	1.89	3,422	3,422	1202	1.75	1.25	1206	2.0	4,110	3,851

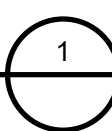
Trap #	Total Drainage Area	Wet Storage Required (cf)	Dry Storage Required (cf)	Bottom Elevation	Depth of Wet Storage (ft)	Depth of Dry Storage (ft)	Top of Berm Elevation	Top Width of Embankment	Wet Storage Provided (sf)	Dry Storage Provided (sf)	L (ft)	Skimmer Size (in)	Skimmer Actual Orifice Diameter (in)
T-5	2.68	4853	4853	1138	2.4	1.6	1143	2.0	5020	5190	5	3.0	2.25

Figure TST-3 Example plan Views of Baffles in Temporary Sediment Traps



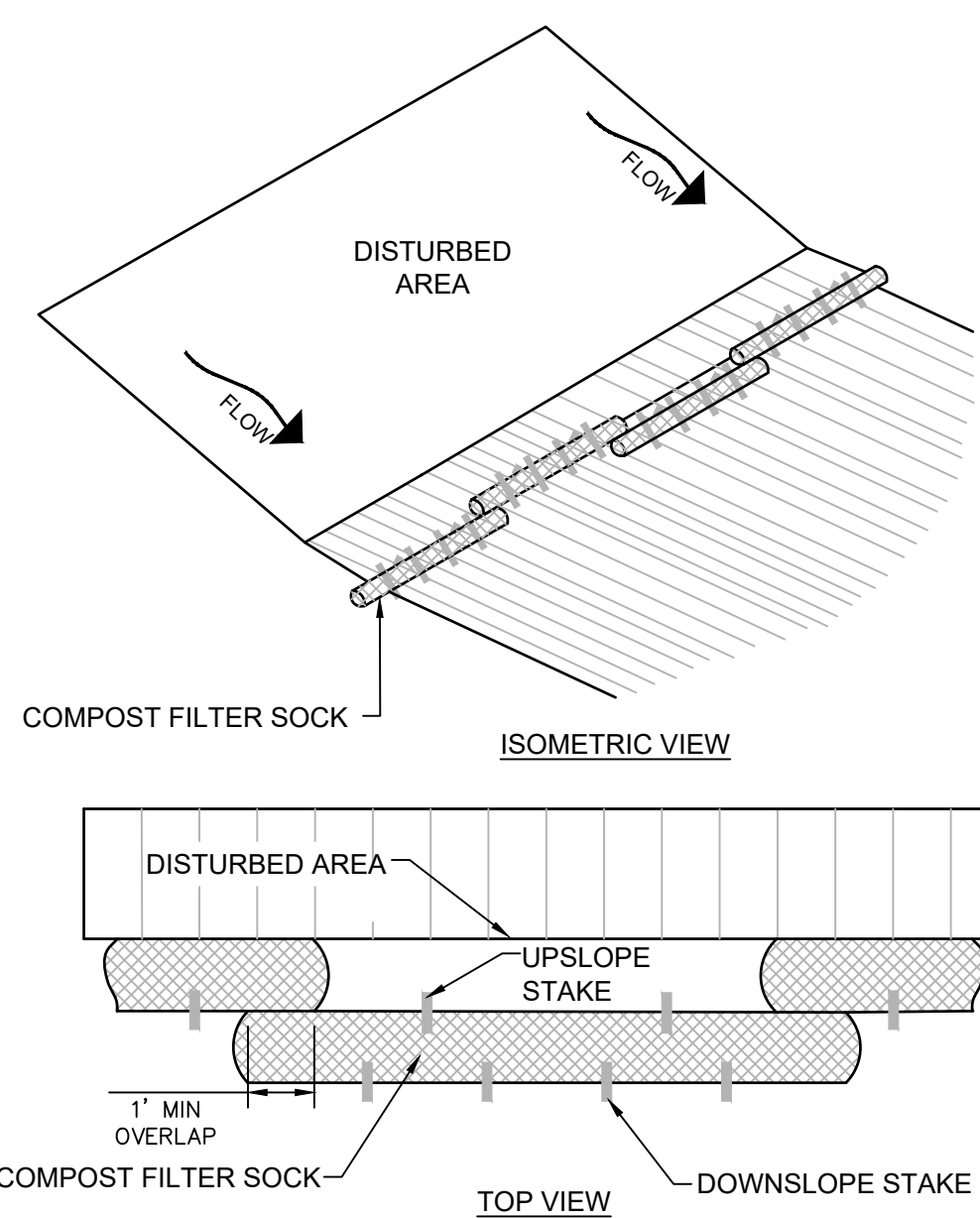
TEMPORARY SEDIMENT TRAPS 1, 2a, 2b, 8/10a, 8/10b, 11, 12, 14, 15

NOT TO SCALE



TEMPORARY SEDIMENT TRAP 5

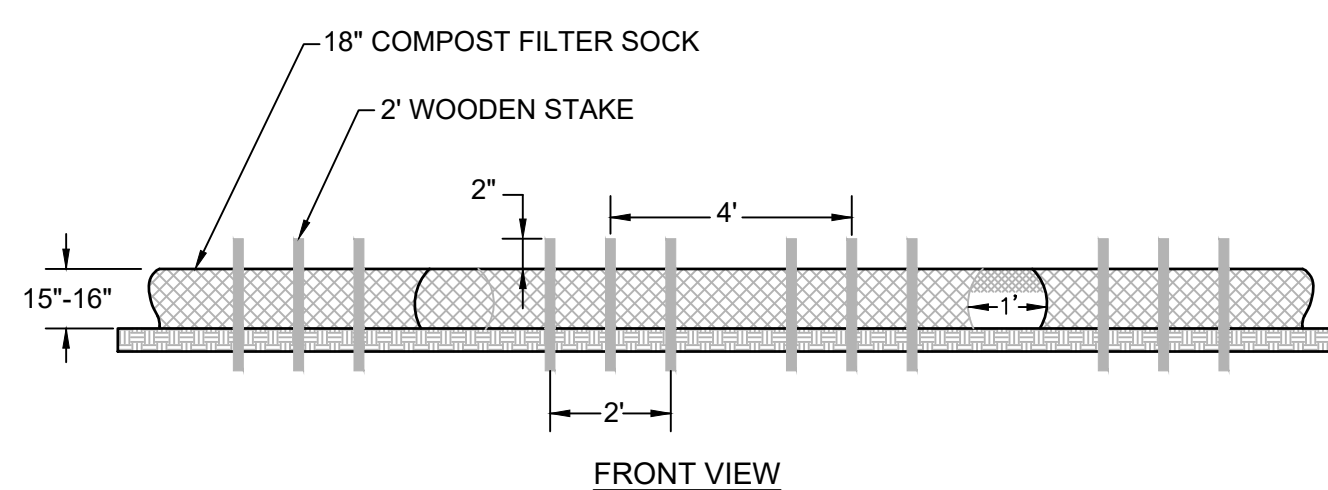
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MAINTENANCE:

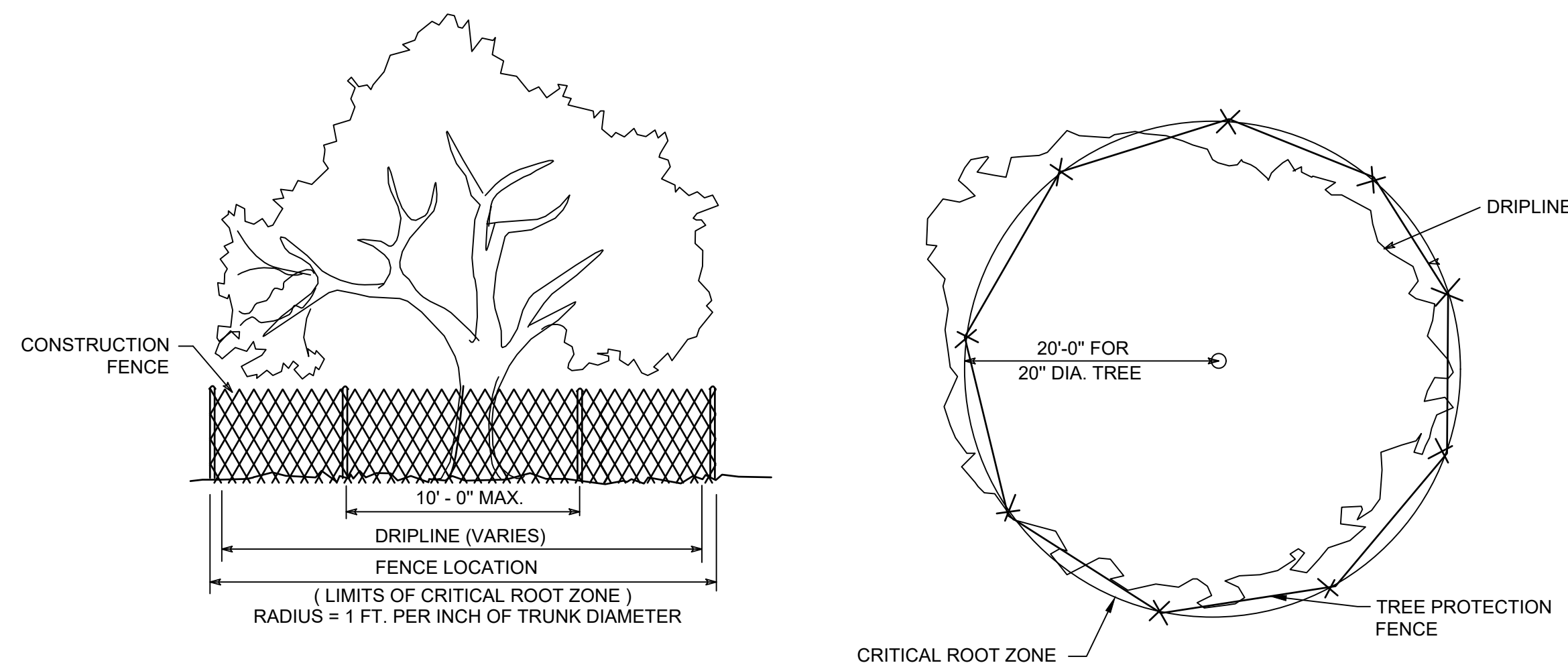
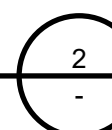
- SEDIMENT DEPOSITS SHALL BE CLEANED FROM THE WATTLES WHEN IT REACHES HALF THE HEIGHT OF THE LOG.
- DAMAGED WATTLES SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION. A SUPPLY OF WATTLES SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.

Slope	Barrier Row Spacing
<2%	100 feet
2 to 5%	75 feet
5 to 10%	50 feet
10 to 33%	25 feet
33 to 50%	20 feet
>50%	Not Permitted



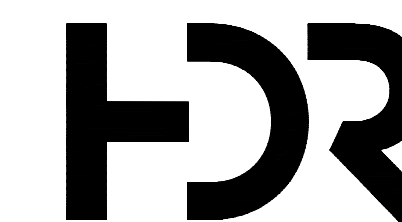
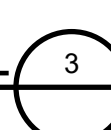
TEMPORARY COMPOST FILTER SOCK

NOT TO SCALE



TEMPORARY TREE PROTECTION DETAIL

NOT TO SCALE



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

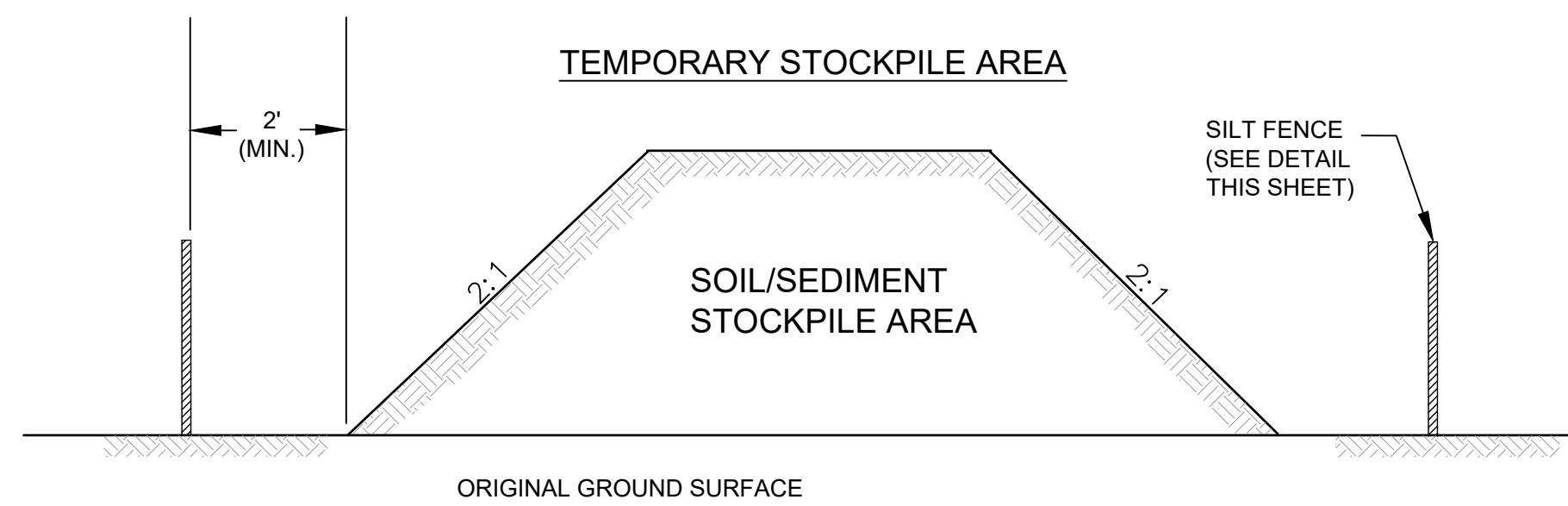
REV. NO	DESCRIPTION	DATE
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 4

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	08/16/23
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JP	CP	AS NOTED
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C508



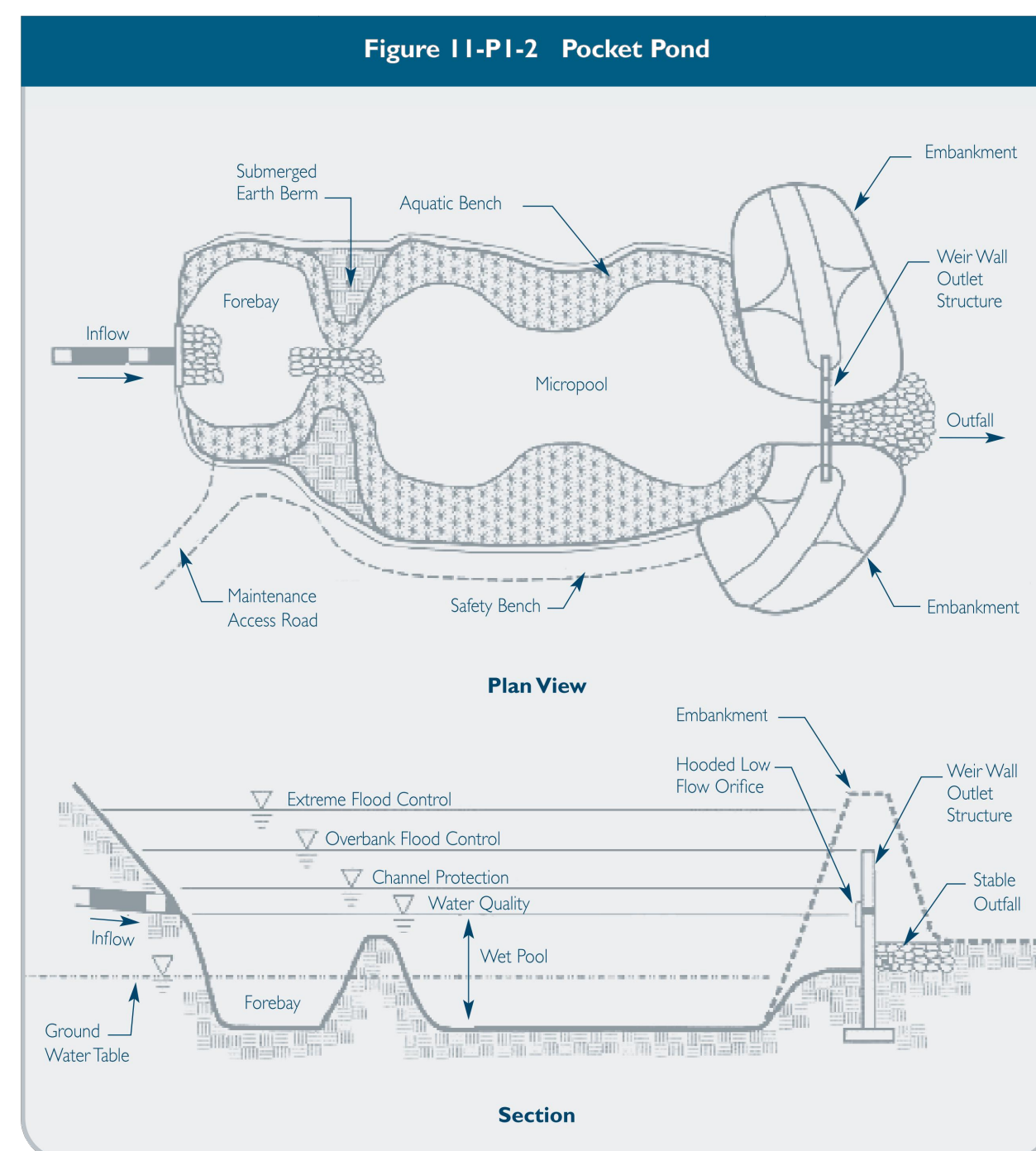
TEMPORARY STOCKPILE DETAIL

NOT TO SCALE

NOTES:

1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL. WATER TO BE APPLIED BY SPRAYER TO STOCKPILE TO KEEP DUST DOWN. AVOID EXCESS WATER THAT CAN CAUSE EROSION PROBLEMS.

1



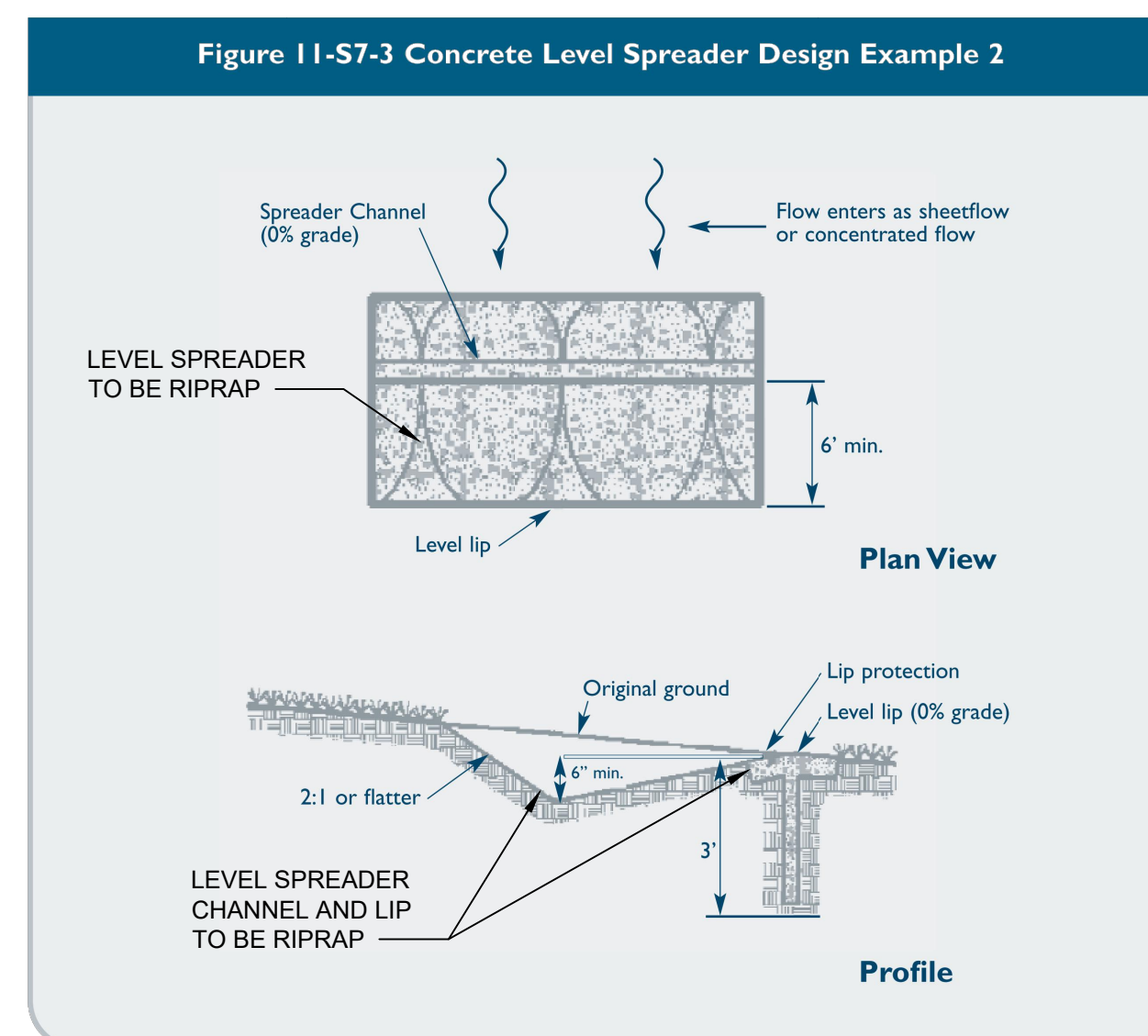
	POND 2a	POND 2b	POND 12
Bottom of Pond Elevation	1082.75	1038.50	1184.00
Low Flow Orifice Elevation	1083.65	1039.50	1186.70
Orifice Diameter (in)	3	3	3
Weir Wall Elevation	1084.50	1040.50	1187.15
Weir Length (ft)	10	10	10
Top of Berm	1085.75	1041.50	1188.00
2 Year Water Elevation	1084.95	1040.61	1187.28
10 Year Water Elevation	1085.45	1040.97	1187.51
100 Year Water Elevation	1085.7	1041.27	1187.69
Emergency Spillway Elevation	1085.25	-	-
Emergency Spillway Length (ft)	20	-	-
Outlet Pipe Invert	1083.65	-	-
Linear Feet of Outlet Pipe	59	-	-
Diameter of Outlet Pipe (in)	18	-	-
Outlet Pipe Slope (Ft/Ft)	0.011	-	-
Outlet Pipe FES Invert	1083.00	-	-

NOTE:
FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PERMANENT POCKET POND

NOT TO SCALE

3



Source: Adapted from Center for Watershed Protection, 2000.

Culvert #	Q (cfs)	Min. Length (ft)	Design Length (ft)	Height of Flow (ft)	Flow Velocity (ft/s)	Elev
POND-1	6.61	85.93	86	0.09	0.84	1121.00
POND-7	8.59	111.67	132	0.08	0.80	1146.00

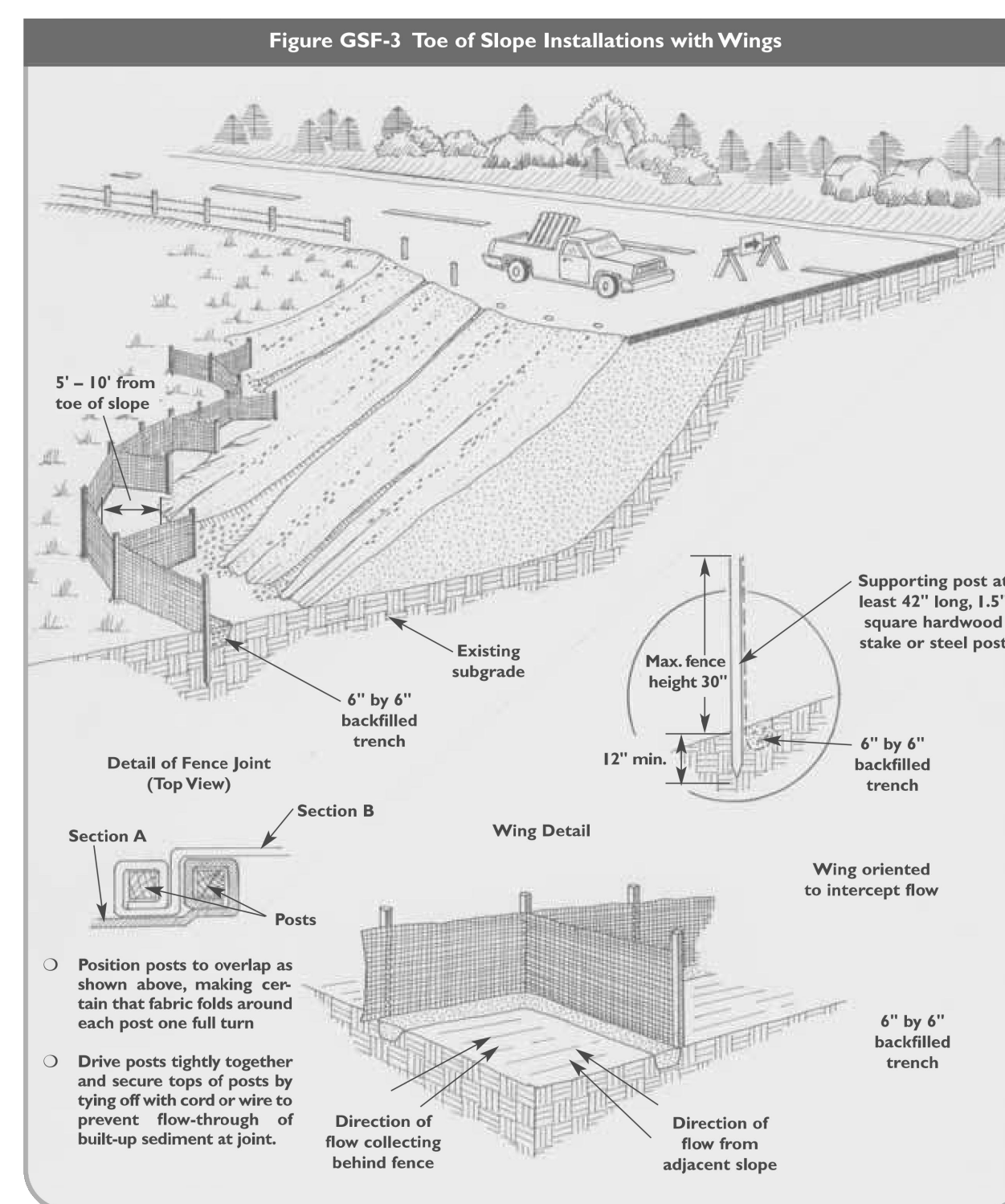
NOTES:

1. TRENCHES MUST BE STAKED BY A SURVEYOR TO ENSURE THEY ARE BUILT LEVEL.

PERMANENT LEVEL SPREADER

NOT TO SCALE

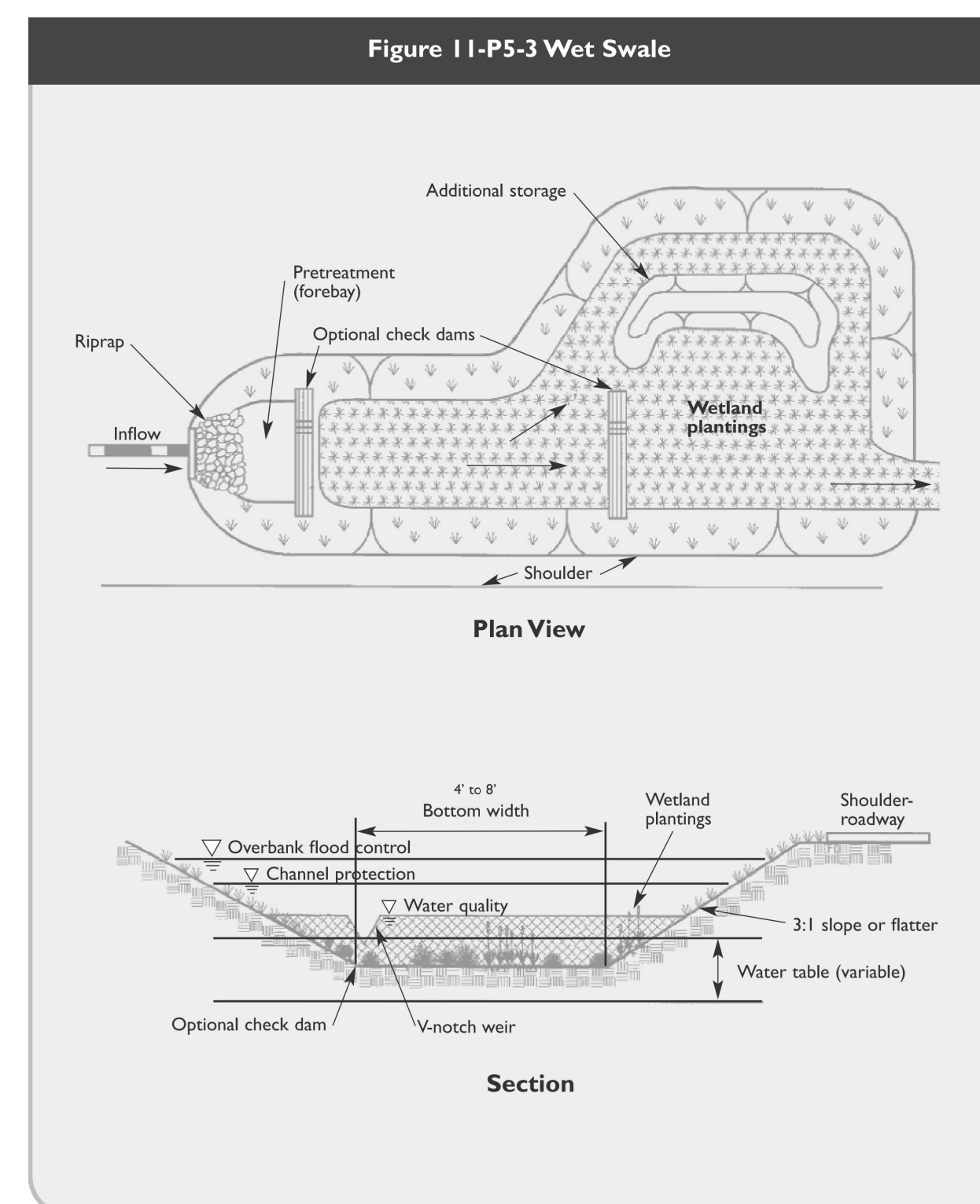
4



SILT FENCE WITH WINGS

NOT TO SCALE

5



Source: Adapted from Center for Watershed Protection, 2000.

PERMANENT WET SWALE

NOT TO SCALE

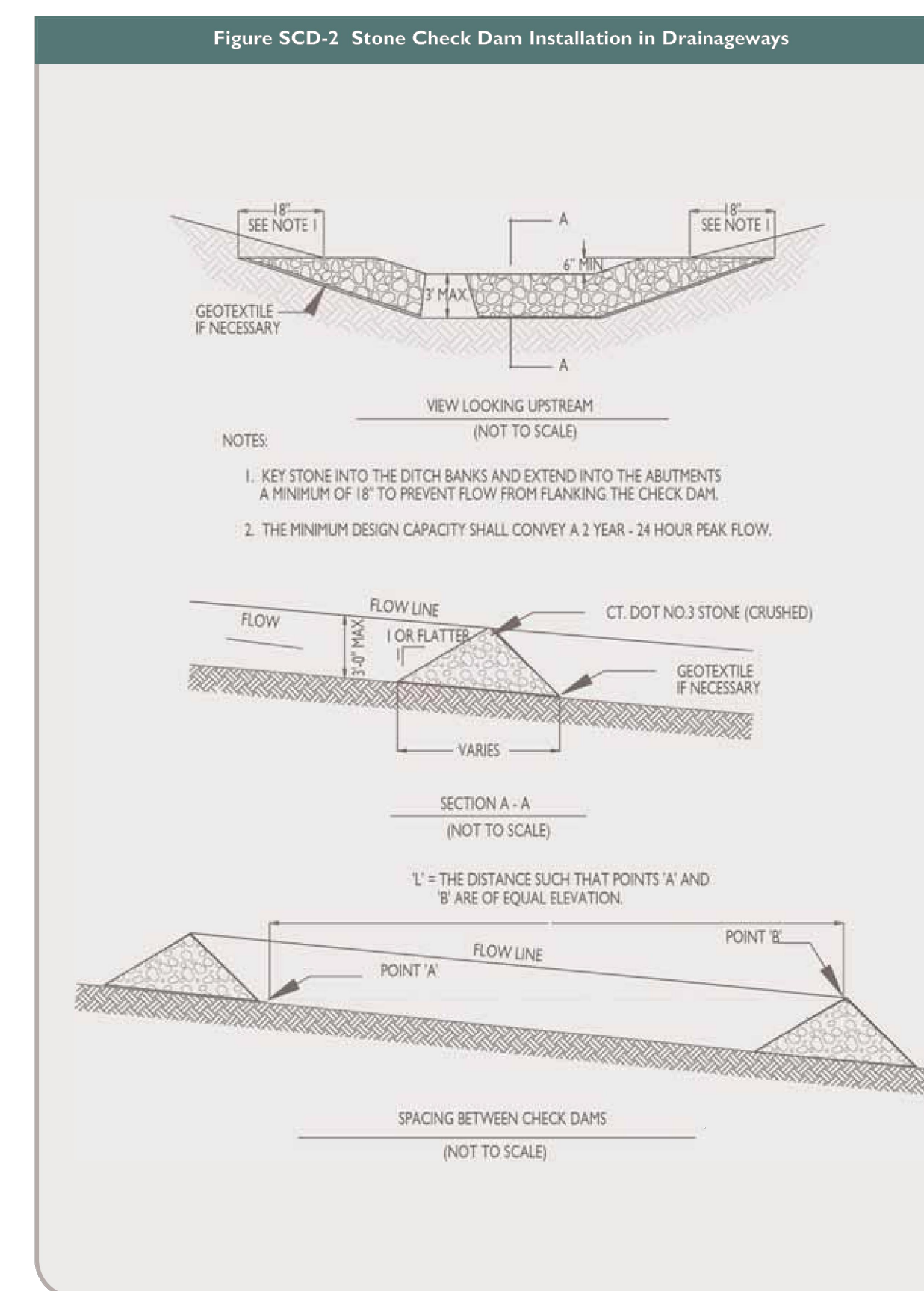
2

Wet Swales for Quantity and Quality		
	SWALE 11	SWALE 14
Spillway Length (ft)	20	20
Top of Berm	1192.50	1148.50
100 Year Water Elevation	1191.43	1148.27
2 Year Water Elevation	1191.02	1147.76
10 Year Water Elevation	1191.22	1147.95
Water Quality Elevation	1190.80	1146.80
Spillway Elevation	1191.00	1147.50
Bottom of Pond	1188.00	1145.00
Slope of Bottom (%)	0.50	0.50
Concrete Check Dam - V-notch Weir Elevation	1189.80	1146.80

Wet Swales for Quality Only (Discharging to Dry Ponds)							
Ditch	Weighted Peak Runoff 10-yr Event (cfs)	Avg. Slope (%)	Shape	Side Slope z:1	Bott. (ft)	Depth (ft)	Top Width (ft)
1	5.10	0.50%	Trap.	3	8	2	20
3	25.10	2.32%	Trap.	3	4	2	16
5	7.07	4.99%	Trap.	3	4	1	10
7	5.55	1.27%	Trap.	3	6	2	18
8/10a	16.36	3.15%	Trap.	3	8	2	20
8/10b	15.66	3.29%	Trap.	3	4	1.5	13
8/10c	24.01	2.70%	Trap.	3	8	2.5	23
8/10d	21.58	4.97%	Trap.	3	8	1.5	17
9	21.28	4.95%	Trap.	3	8	2	20

*SEE SHEETS C420 AND C431-C433 FOR WEIR ELEVATIONS ALONG WET SWALE PROFILES. WEIR ELEVATIONS HAVE BEEN SET AT THE 10YR STORM DEPTH.

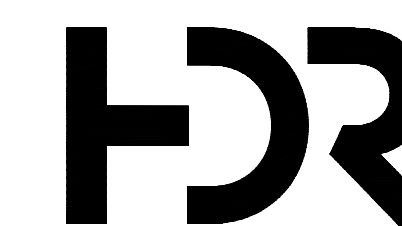
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STONE CHECK DAM

NOT TO SCALE

6



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

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LAT: 41.794157°N
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LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 5

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED
DRAWING NO.		

C509

EARTHEN STOCKPILE MANAGEMENT

1. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

EROSION CONTROL NOTES:

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
2. Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner or his/her designated agent shall be implemented within seven days. Areas that will remain disturbed but inactive for at least thirty days will receive temporary seeding or soil protection within seven days in accordance with the Guidelines
3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification. Inspections shall be done in accordance with the SWPCP.
4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.
5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
7. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
8. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 25-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
9. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
10. A copy of the SWPCP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
11. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
12. Minimize soil compaction and, unless infeasible, preserve topsoil.
13. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
14. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
15. The following discharges from sites are prohibited and shall be in compliance with the SWPCP:
 - Wastewater from washout of concrete, unless managed by an appropriate control;
 - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
 - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
 - Soaps or solvents used in vehicle and equipment washing.
16. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site. Inspections shall be done in accordance with the SWPCP.
17. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or

CT's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPCP inspection report and alternative BMPs must be implemented as soon as reasonably possible.

18. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPCP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

19. For slopes greater than or equal to 8%, erosion control blankets or stump grindings or erosion control mix mulch or hydroseed with tackifier shall be applied within 72 hours of final grading, or when a rainfall of 0.5 inches or greater is predicted within 24 hours of final grading, whichever time period is less.

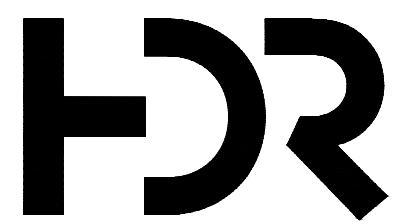
20. If the ground is semi-frozen, punch seed disturbed areas (seed applied into soil), allowing the seed to remain wet and germinate during favorable weather conditions.

21. Install two rows of silt fencing/compost filter sock in areas where the distance from a wetland to the LOD is less than 100 ft.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> • Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting 	<ul style="list-style-type: none"> • Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA

LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

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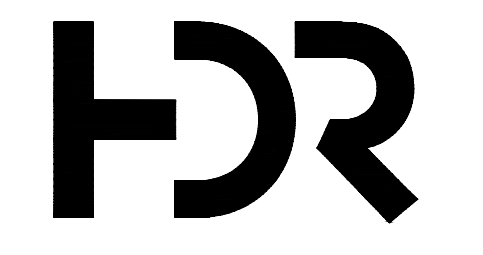
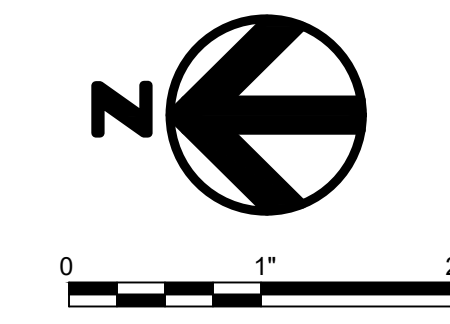
SHEET TITLE:

EROSION AND SEDIMENT CONTROL NOTES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

DRAWING NO.

C510



**NOT FOR
CONSTRUCTION**

**LITCHFIELD
SOLAR**

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TORRINGTON, CT 06790, USA
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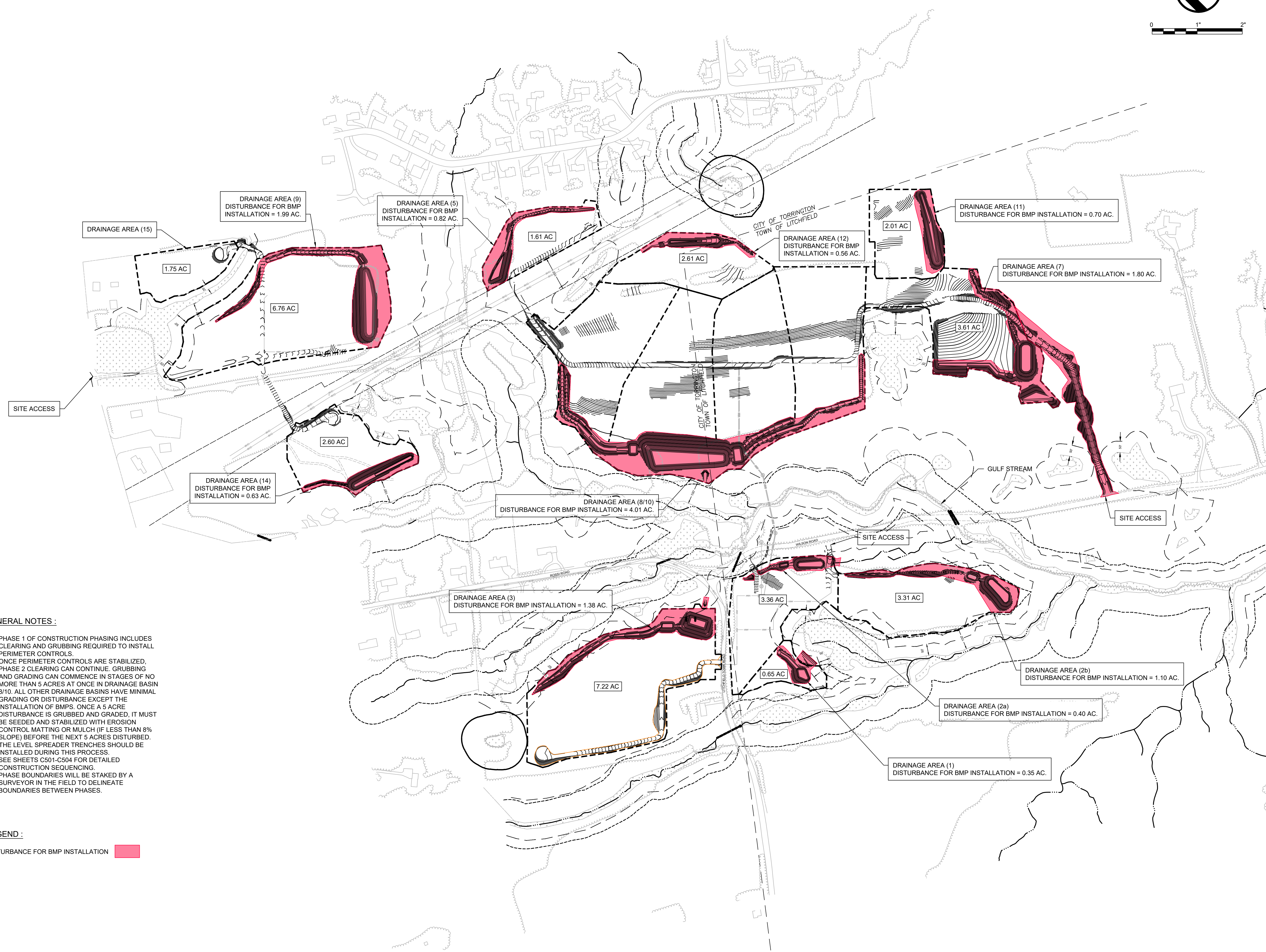
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SHEET TITLE:
**CONSTRUCTION PHASING
PLAN 1**

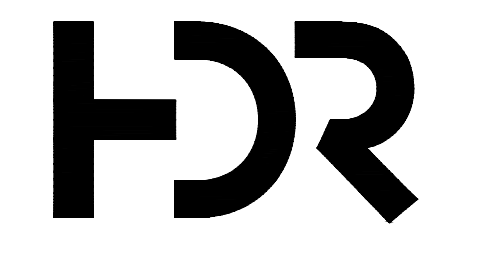
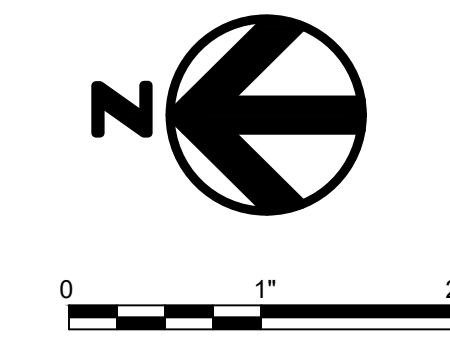
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=200'

DRAWING NO.
C550



- GENERAL NOTES :**
1. PHASE 1 OF CONSTRUCTION PHASING INCLUDES CLEARING AND GRUBBING REQUIRED TO INSTALL PERIMETER CONTROLS.
 2. ONCE PERIMETER CONTROLS ARE STABILIZED, PHASE 2 CLEARING CAN CONTINUE. GRUBBING AND GRADING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE IN DRAINAGE BASIN 8/10. ALL OTHER DRAINAGE BASINS HAVE MINIMAL GRADING OR DISTURBANCE EXCEPT THE INSTALLATION OF BMPs. ONCE A 5 ACRE DISTURBANCE IS GRUBBED AND GRADED, IT MUST BE SEEDED AND STABILIZED WITH EROSION CONTROL MATTING OR MULCH (IF LESS THAN 8% SLOPE) BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.
 3. SEE SHEETS C501-C504 FOR DETAILED CONSTRUCTION SEQUENCING.
 4. PHASE BOUNDARIES WILL BE STAKED BY A SURVEYOR IN THE FIELD TO DELINEATE BOUNDARIES BETWEEN PHASES.

LEGEND :
DISTURBANCE FOR BMP INSTALLATION



**NOT FOR
CONSTRUCTION**

**LITCHFIELD
SOLAR**

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TORRINGTON, CT 06790, USA
LAT: 41.794157°N
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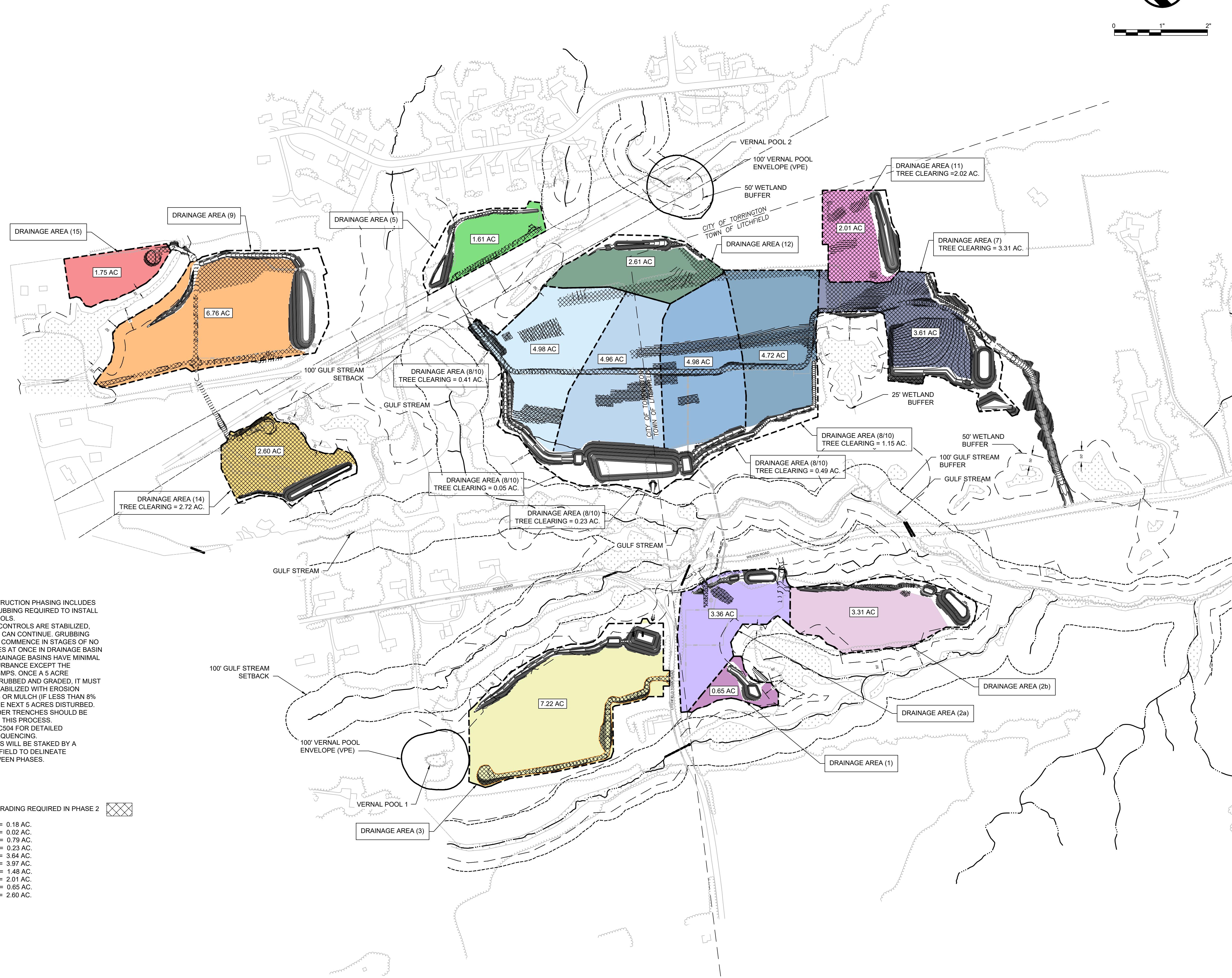
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SHEET TITLE:
**CONSTRUCTION PHASING
PLAN 2**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=200'

DRAWING NO.
C551

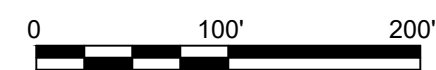
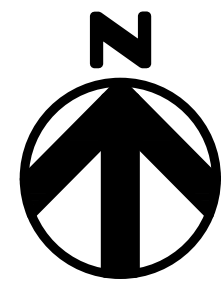


GENERAL NOTES :

- PHASE 1 OF CONSTRUCTION PHASING INCLUDES CLEARING AND GRUBBING REQUIRED TO INSTALL PERIMETER CONTROLS.
- ONCE PERIMETER CONTROLS ARE STABILIZED, PHASE 2 CLEARING CAN CONTINUE. GRUBBING AND GRADING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE IN DRAINAGE BASIN 8/10. ALL OTHER DRAINAGE BASINS HAVE MINIMAL GRADING OR DISTURBANCE EXCEPT THE INSTALLATION OF BMPS. ONCE A 5 ACRE DISTURBANCE IS GRUBBED AND GRADED, IT MUST BE SEEDED AND STABILIZED WITH EROSION CONTROL MATTING OR MULCH (IF LESS THAN 8% SLOPE) BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.
- SEE SHEETS C501-C504 FOR DETAILED CONSTRUCTION SEQUENCING.
- PHASE BOUNDARIES WILL BE STAKED BY A SURVEYOR IN THE FIELD TO DELINEATE BOUNDARIES BETWEEN PHASES.

LEGEND :

- TREE CLEARING AND GRADING REQUIRED IN PHASE 2
- DRAINAGE AREA (2a) = 0.18 AC.
 - DRAINAGE AREA (2b) = 0.02 AC.
 - DRAINAGE AREA (3) = 0.79 AC.
 - DRAINAGE AREA (5) = 0.23 AC.
 - DRAINAGE AREA (7) = 3.64 AC.
 - DRAINAGE AREA (8/10) = 3.97 AC.
 - DRAINAGE AREA (9) = 1.48 AC.
 - DRAINAGE AREA (11) = 2.01 AC.
 - DRAINAGE AREA (12) = 0.65 AC.
 - DRAINAGE AREA (14) = 2.60 AC.

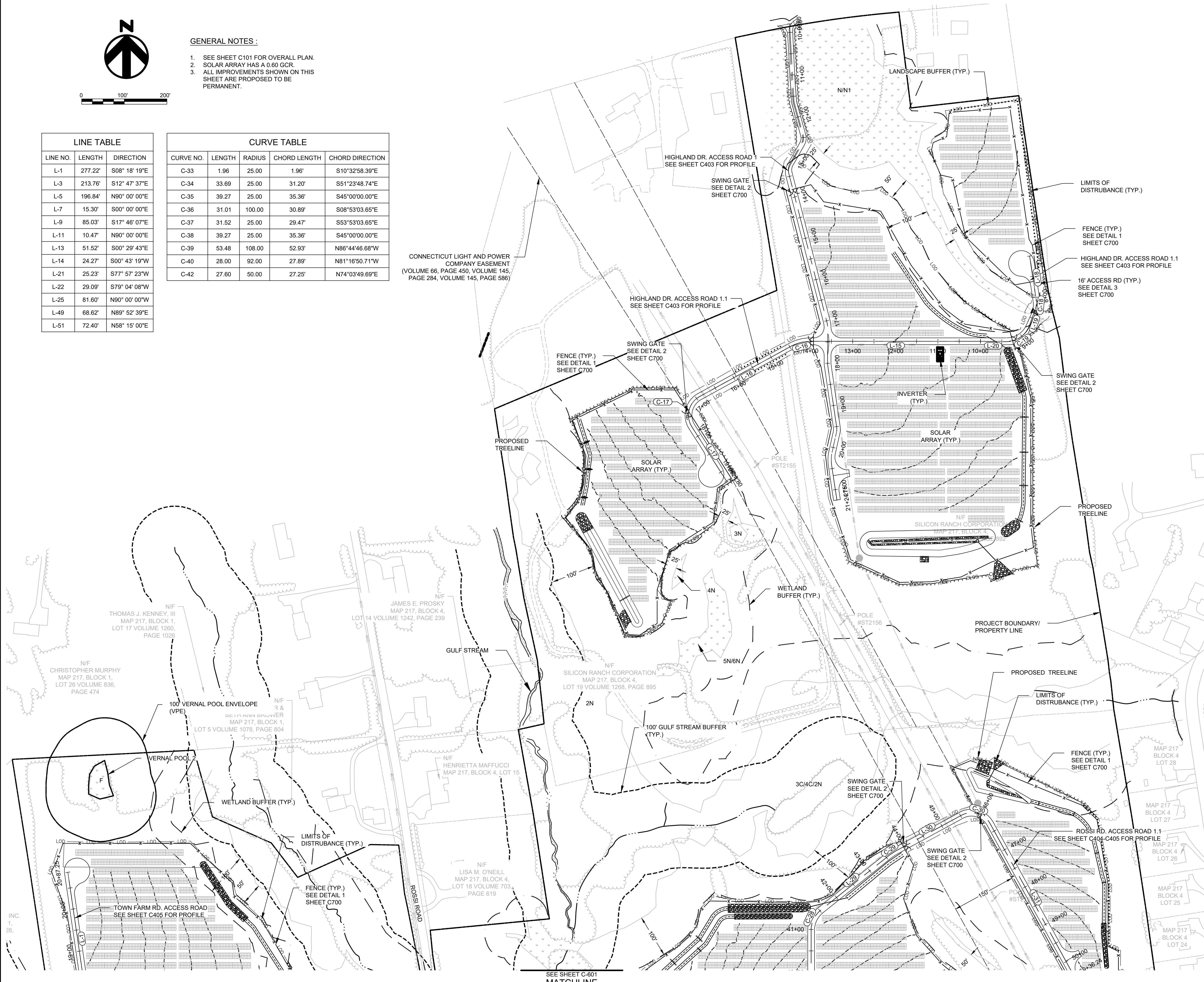


GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.
2. SOLAR ARRAY HAS A 0.60 GCR.
3. ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT.

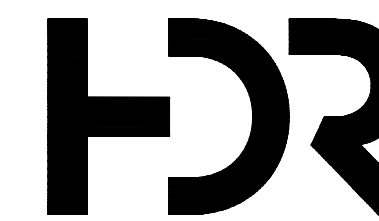
LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L-1	277.22'	S08° 18' 19"E
L-3	213.76'	S12° 47' 37"E
L-5	196.84'	N90° 00' 00"E
L-7	15.30'	S00° 00' 00"E
L-9	85.03'	S17° 46' 07"E
L-11	10.47'	N90° 00' 00"E
L-13	51.52'	S00° 29' 43"E
L-14	24.27'	S00° 43' 19"W
L-21	25.23'	S77° 57' 23"W
L-22	29.09'	S79° 04' 08"W
L-25	81.60'	N90° 00' 00"W
L-49	68.62'	N89° 52' 39"E
L-51	72.40'	N58° 15' 00"E

CURVE TABLE					
CURVE NO.	LENGTH	RADIUS	CHORD LENGTH	CHORD DIRECTION	
C-33	1.96'	25.00'	1.96'	S10°32'58.39"E	
C-34	33.69'	25.00'	31.20'	S51°23'48.74"E	
C-35	39.27'	25.00'	35.36'	S45°00'00.00"E	
C-36	31.01'	100.00'	30.89'	S08°53'03.65"E	
C-37	31.52'	25.00'	29.47'	S53°53'03.65"E	
C-38	39.27'	25.00'	35.36'	S45°00'00.00"E	
C-39	53.48'	108.00'	52.93'	N86°44'46.68"W	
C-40	28.00'	92.00'	27.89'	N81°16'50.71"W	
C-42	27.60'	50.00'	27.25'	N74°03'49.69"E	



CONNECTICUT LIGHT AND POWER COMPANY EASEMENT (VOLUME 66, PAGE 450, VOLUME 145, PAGE 284, VOLUME 145, PAGE 586)

SEE SHEET C-601
MATCHLINE



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

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LITCHFIELD, CT

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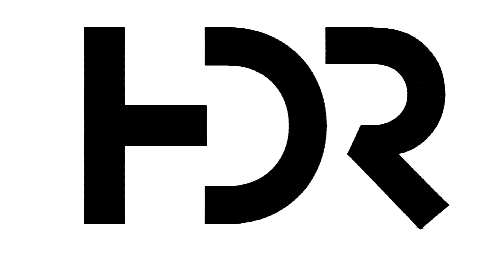
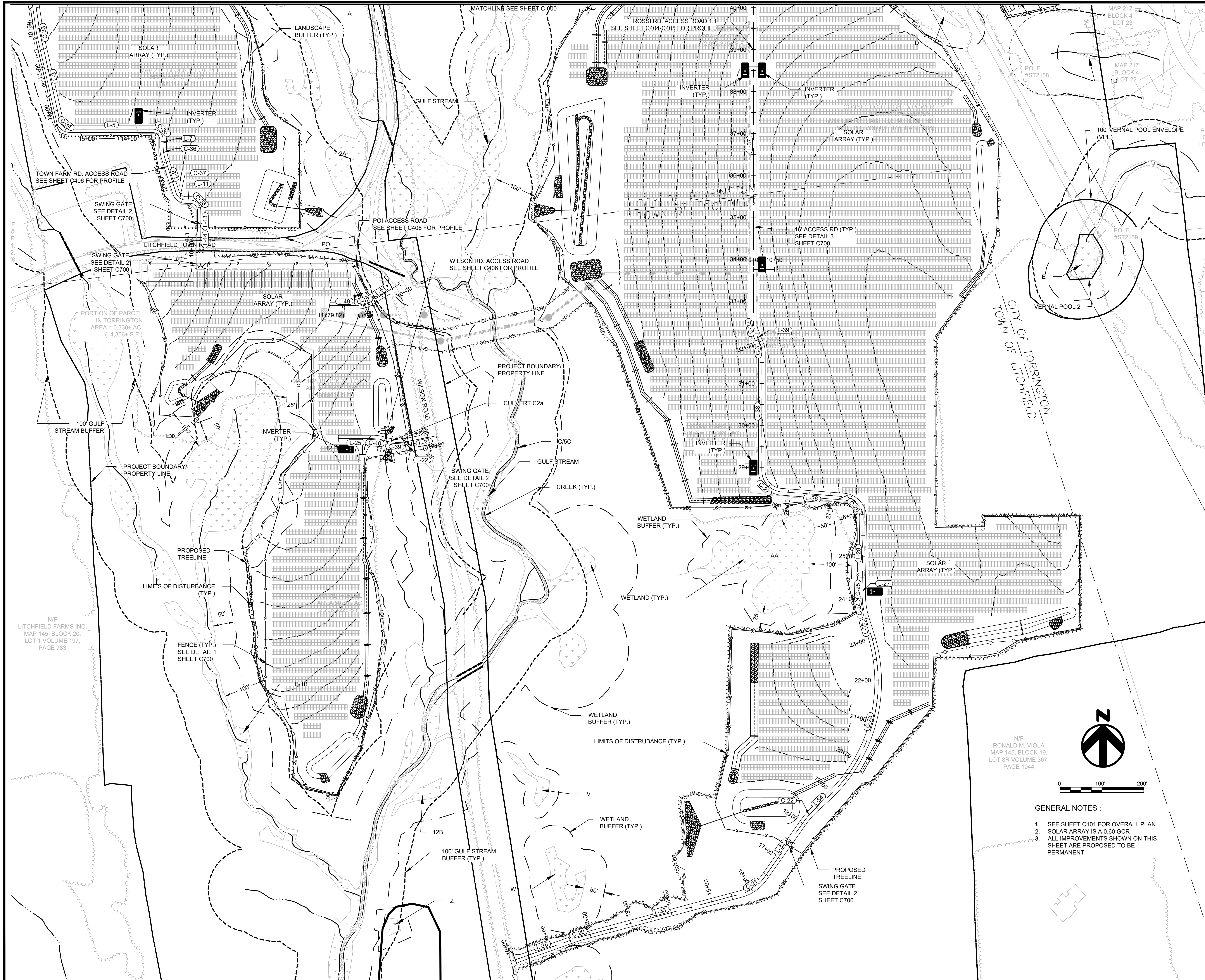
SHEET TITLE:

SITE PLAN 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100

DRAWING NO.

C600



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CONSTRUCTION**

**LITCHFIELD
SOLAR**

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SHEET TITLE:

SITE PLAN 2

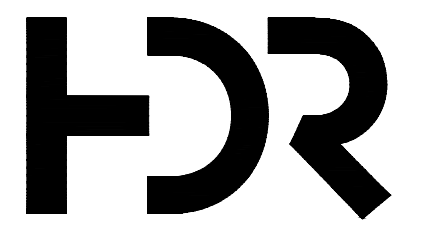
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100

DRAWING NO.

C601

GENERAL NOTES :

- SEE SHEET C101 FOR OVERALL PLAN.
- SOLAR ARRAY IS A 0.60 GCR
- ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT.



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LITCHFIELD SOLAR

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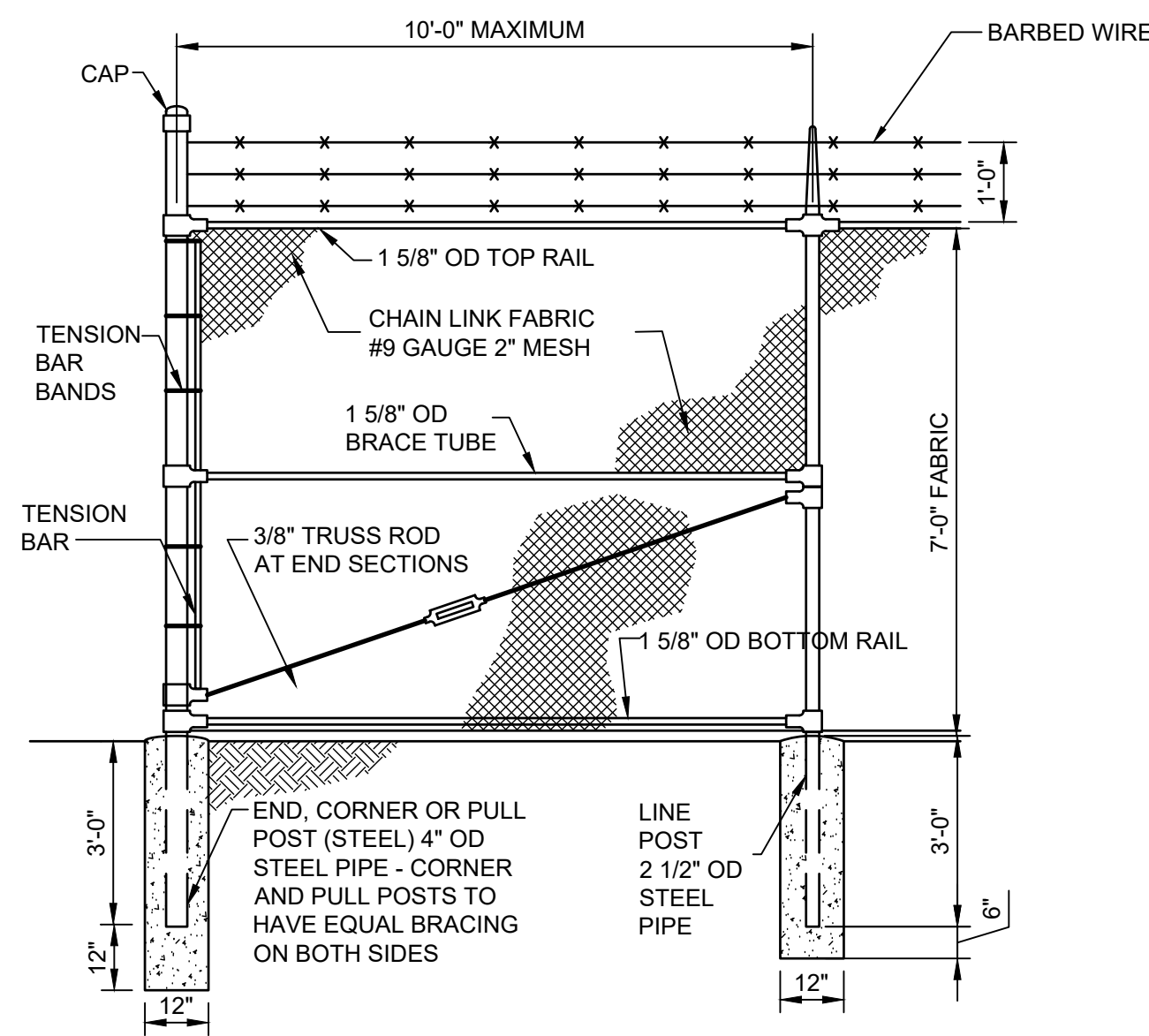
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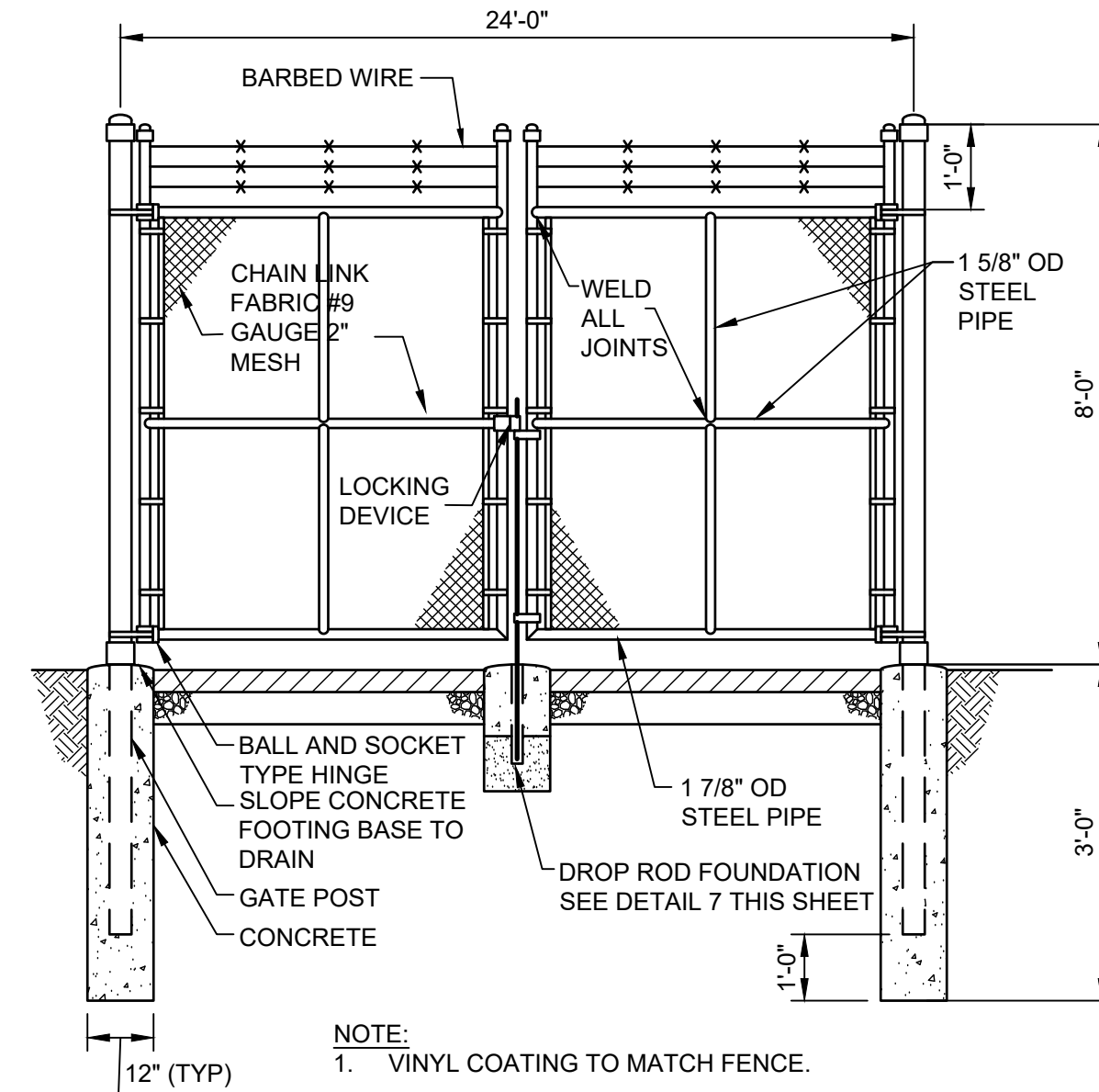
SHEET TITLE: SITE ACCESS PLAN & CIVIL DETAILS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: NTS

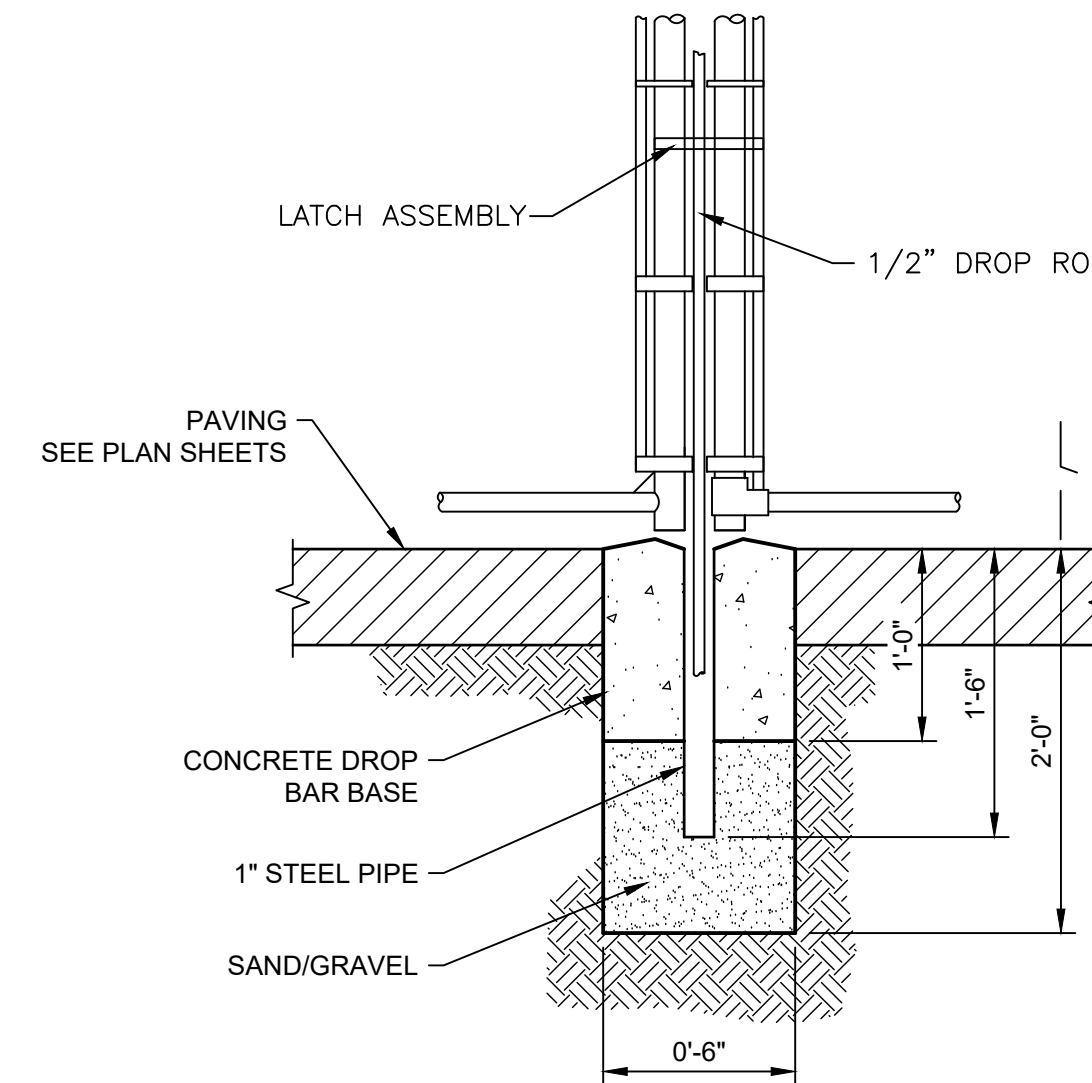
DRAWING NO. **C700**



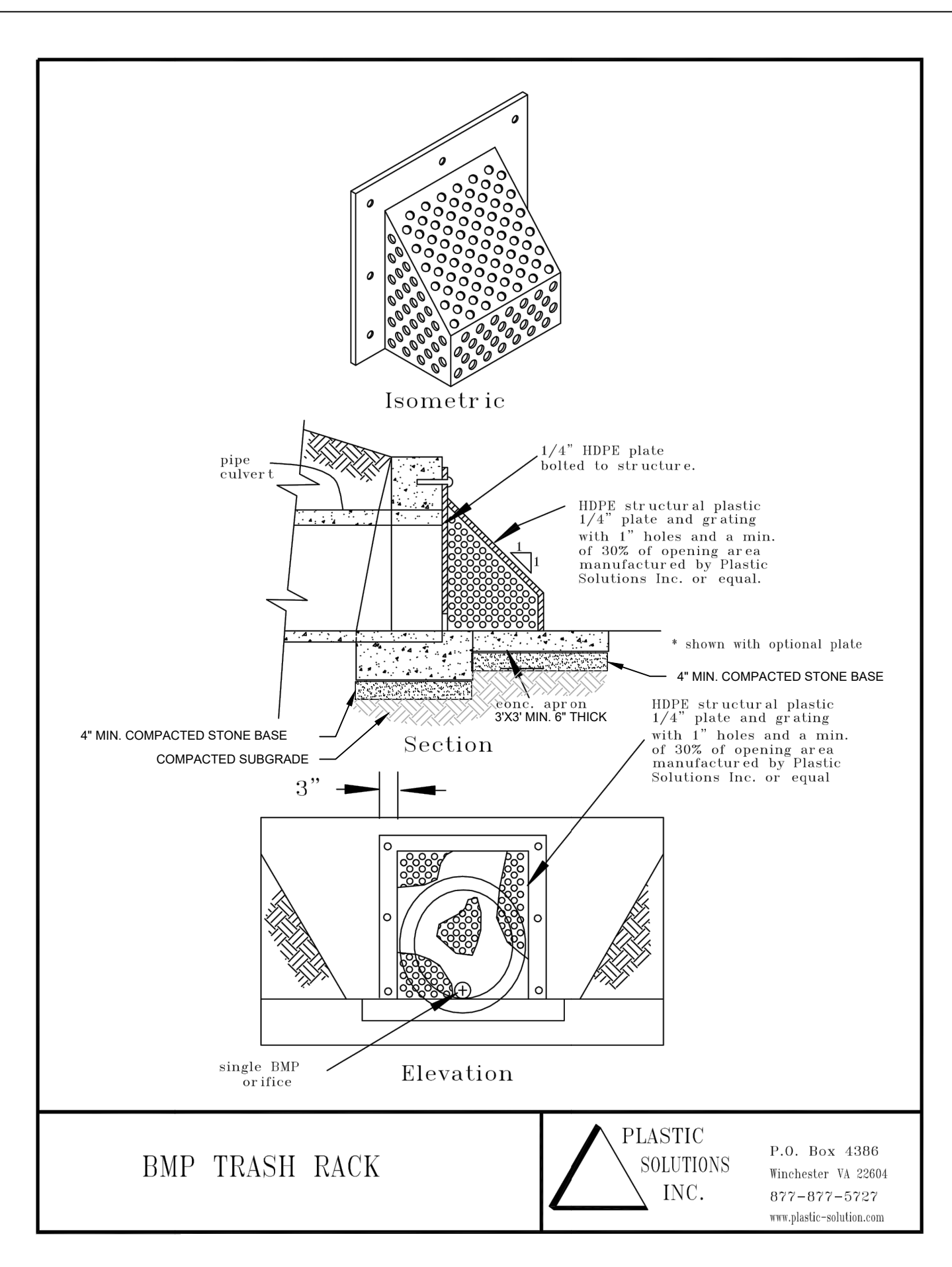
SECURITY FENCE DETAIL 1
NOT TO SCALE



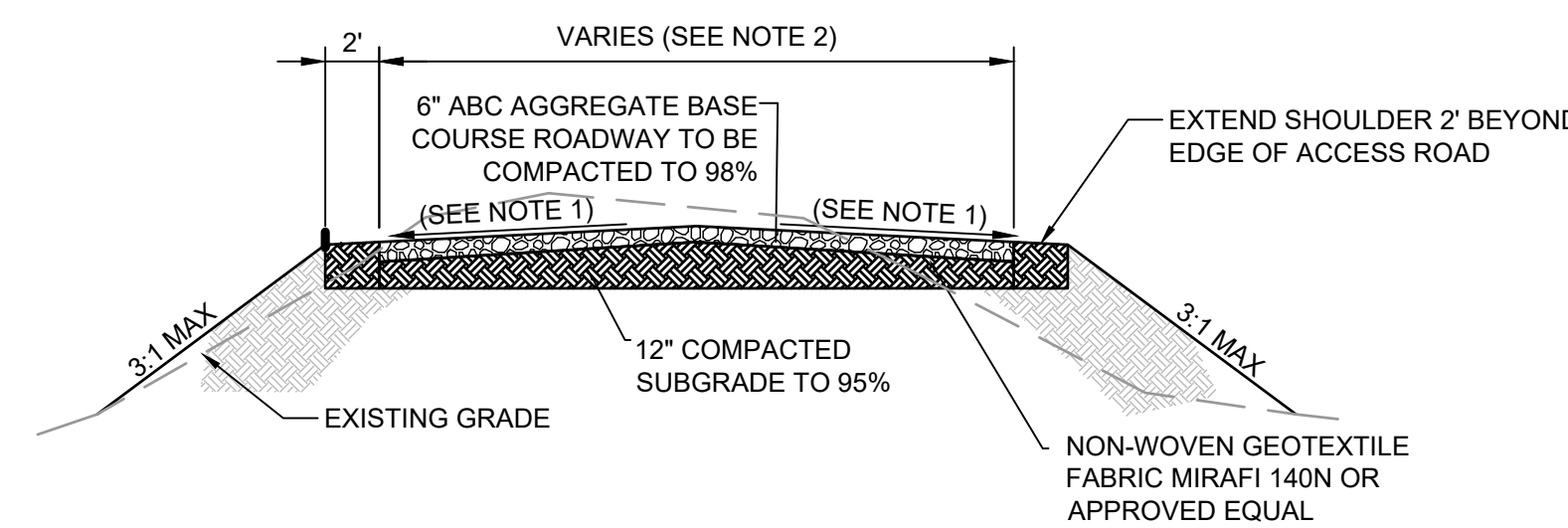
SWING GATE DETAIL 2
NOT TO SCALE



DROP ROD FOUNDATION DETAIL 7
NOT TO SCALE

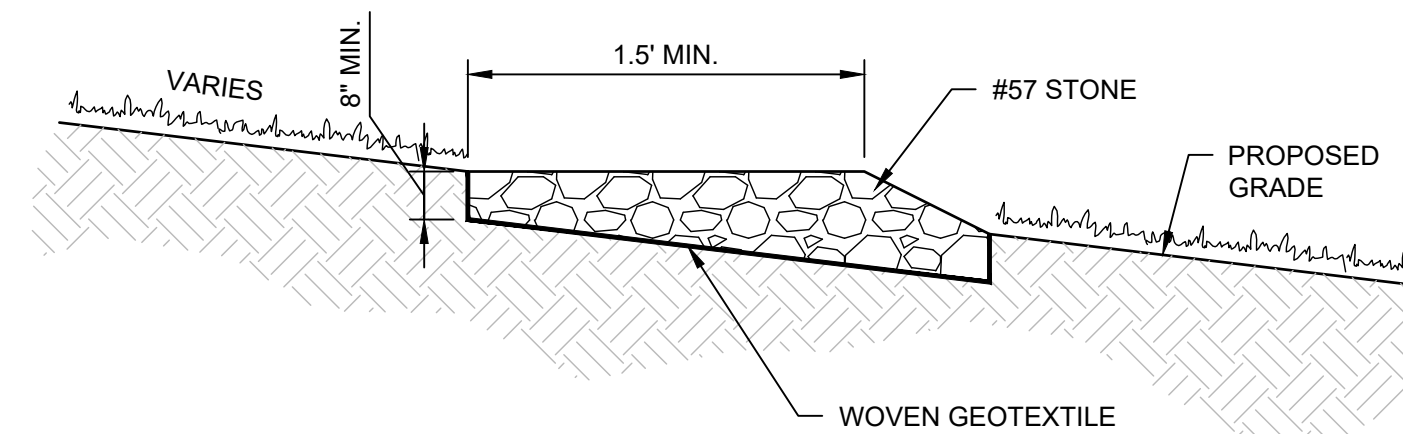


ORIFICE TRASH RACK 4
NOT TO SCALE



- NOTES:**
- ACCESS ROAD SHALL BE INSTALLED PER THE DETAIL. MODIFY EXISTING GRADE AS NEEDED TO ESTABLISH ROAD WITH A CROWNED SECTION BETWEEN 1% AND 5% TO ENSURE PROPER DRAINAGE.
 - STRAIGHT SECTION ROADS SHALL BE 16' WIDE AND ROAD SECTIONS IN CURVES AND TURNAROUNDS SHALL BE 20' WIDE. SEE SITE LAYOUT PLANS FOR SPECIFICS ROAD WIDTHS.

TYPICAL ROAD SECTION (RIGID LINE CONSTRUCTION) 3
NOT TO SCALE



- NOTES:**
- LEVEL SPREADERS SHALL BE INSTALLED WHERE GRADE EXCEEDS 8%.
 - INSTALL LEVEL SPREADERS PERPENDICULAR TO THE SLOPE AS SHOWN ON PLANS.
 - TRENCHES MUST BE STAKED BY A SURVEYOR TO ENSURE THEY ARE BUILT LEVEL. DURING CONSTRUCTION TRENCHES ARE TO BE OBSERVED DAILY FOR COMPACTION BY EQUIPMENT TRAFFIC CAUSING LOW POINTS AND CONCENTRATED FLOWS. TRENCHES ARE TO BE MAINTAINED AND REPAIRED AT MINIMUM ON A WEEKLY BASIS OR MORE FREQUENTLY IF NECESSARY.

GRAVEL LEVEL SPREADER 5
NOT TO SCALE

OPERATION OF EQUIPMENT UNDER AND ADJACENT TO EVERSOURCE LINES ON RIGHTS-OF-WAY

ES VER: 05/2015

(See Note # 1)

RATED VOLTAGE	CLEARANCE "C"	REFERENCE OTRM 222
* < 50 KV	10'	
* 115 KV	15'	
* 345 KV	20'	

* CONTACT ES TRANSMISSION LINE ENGINEERING TO VERIFY LINE VOLTAGE.

10' Min. to Vehicles in Transit (See Note #8) or Clearance "C" to Operating Equipment

Lowest Line Conductors (See Notes #4 & 5)

Excavated Material Storage (See Note #6)

Operation of Equipment Outside the Right-of-Way (See Note #3)

Level of Lowest Adjacent Conductor. Operation of Lift-Body or Boom-Type Equipment Below this Level Permitted.

4' MAX

AREA SUBJECT TO ES R/W

NOTES

- PRIOR WRITTEN APPROVAL FROM ES IS REQUIRED FOR ANY DEVELOPMENT ACTIVITY WITHIN RIGHT-OF-WAY.
- REFER TO OSHA 1926 SUBPART CC 1926.1407-1411 FOR DETAILED EXPLANATION PERTAINING TO THE REQUIREMENTS STIPULATED WITHIN THIS DOCUMENT.
- OPERATION OF LIFT BODY, BOOM-TYPE OR OTHER AERIAL EQUIPMENT OUTSIDE THE RIGHT-OF-WAY SHALL RECOGNIZE THE EXISTENCE OF ANY ENERGIZED CONDUCTORS. OPERATION SHALL BE SUCH THAT CLEARANCE "C" IS MAINTAINED AT ALL TIMES INCLUDING CONSIDERATION FOR UNEXPECTED OR ACCIDENTAL CONDITIONS (E.G. EMERGENCY LINE LOAD OR CRANE OVERTURN).
- THE NORMALLY OBSERVED CONDUCTOR HEIGHT ABOVE GROUND CAN RAPIDLY AND SIGNIFICANTLY DECREASE (TO AS LITTLE AS 19' @ 115KV, 24' @ 345KV, UNLESS OTHERWISE DETERMINED BY ES ENGINEERING STUDY) AT ANY TIME DUE TO AN UNAPPARENT EMERGENCY LINE LOAD. OSHA EQUIPMENT CLEARANCES MUST BE MAINTAINED FROM THE LOWEST POTENTIAL POSITION OF THE CONDUCTOR.
- A SPOTTER IN COMMUNICATION WITH THE EQUIPMENT OPERATOR MUST USE A REMOTE MEASURING DEVICE (E.G. SONIC OR LASER) TO MONITOR CONDUCTOR HEIGHTS DURING WORK WITHIN THE RIGHT-OF-WAY.
- ONLY AFTER WRITTEN APPROVAL FROM ES TRANSMISSION LINE ENGINEERING: EXCAVATED MATERIAL MAY BE STORED TEMPORARILY AT A HEIGHT NOT TO EXCEED 4 FEET ABOVE ORIGINAL GRADE. NO EQUIPMENT OR VEHICLE OF ANY KIND IS ALLOWED ON EXCAVATED MATERIAL ABOVE ORIGINAL GRADE.
- 13'-6" MAXIMUM LEGAL OVER-THE-ROAD VEHICLES MAY RESULT IN A VIOLATION OF OSHA REGULATIONS IN OFF-ROAD AREAS.
- CLEARANCES MAY EXIST TO SATISFY OSHA EQUIPMENT IN-TRANSIT RULE BUT NOT OPERATION RULE.

NO.	DATE	BY	CHK	APP	REV	DESCRIPTION
7	3/16					REVISED TO REFLECT EVERSOURCE TITLE BLOCK
6	7/22/14					ADDED RETAIN ELECTRIC TO TITLE BLOCK
5	7/20/11					REVISED NOTE 6
4	2/11					REVISED TO REFLECT NEW OSHA REGULATION
3	7/06					TOW & SHAW OSHA CLEARANCES
2	10/95					NEW DWG, OLD VERSION
1	1/91					GENERAL REVISION

EVERSOURCE ENERGY

OPERATION OF EQUIPMENT ON EVERSOURCE RIGHTS-OF-WAY

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OPERATION IN EVERSOURCE RIGHT-OF-WAY 6
NOT TO SCALE