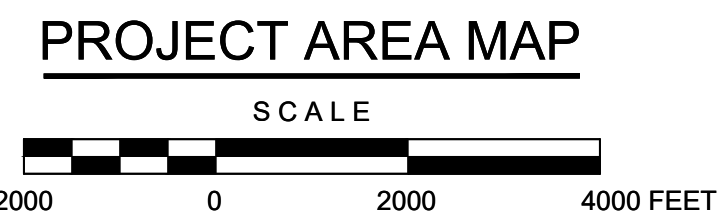


REFERENCES:
1. 7.5 MINUTE SERIES U.S.G.S. TOPOGRAPHIC MAP ENTITLED "OSCAWANA LAKE, N.Y." DATED 2019



LIST OF DRAWINGS

DRAWING DESCRIPTION

- DWG-1 TITLE SHEET
- DWG-2 ABBREVIATIONS AND LEGEND
- DWG-3 GENERAL NOTES
- DWG-4 EXISTING SITE PLAN AND EROSION AND SEDIMENT CONTROL MEASURES
- DWG-5 EROSION AND SEDIMENT CONTROL DETAILS (1 OF 2)
- DWG-6 EROSION AND SEDIMENT CONTROL DETAILS (2 OF 2)
- DWG-7 PROPOSED REHABILITATION PLAN (1 OF 2)
- DWG-8 PROPOSED REHABILITATION PLAN (2 OF 2)
- DWG-9 EMERGENCY SPILLWAY PROFILE
- DWG-10 DAM AND DIKE SECTIONS AND DETAILS (1 OF 2)
- DWG-11 DAM AND DIKE SECTIONS AND DETAILS (2 OF 2)



REFERENCE:
PORTION OF THE NATIONAL ATLAS OF THE UNITED STATES OF AMERICA. "GENERAL REFERENCE" COMPILED BY THE U.S. GEOLOGICAL SURVEY 2001, PRINTED 2002

LOCATION MAP
NOT TO SCALE

90% DESIGN NOVEMBER 2021
ROARING BROOK LAKE DAM REHABILITATION
NYSDEC DAM STATE ID: 213-2775

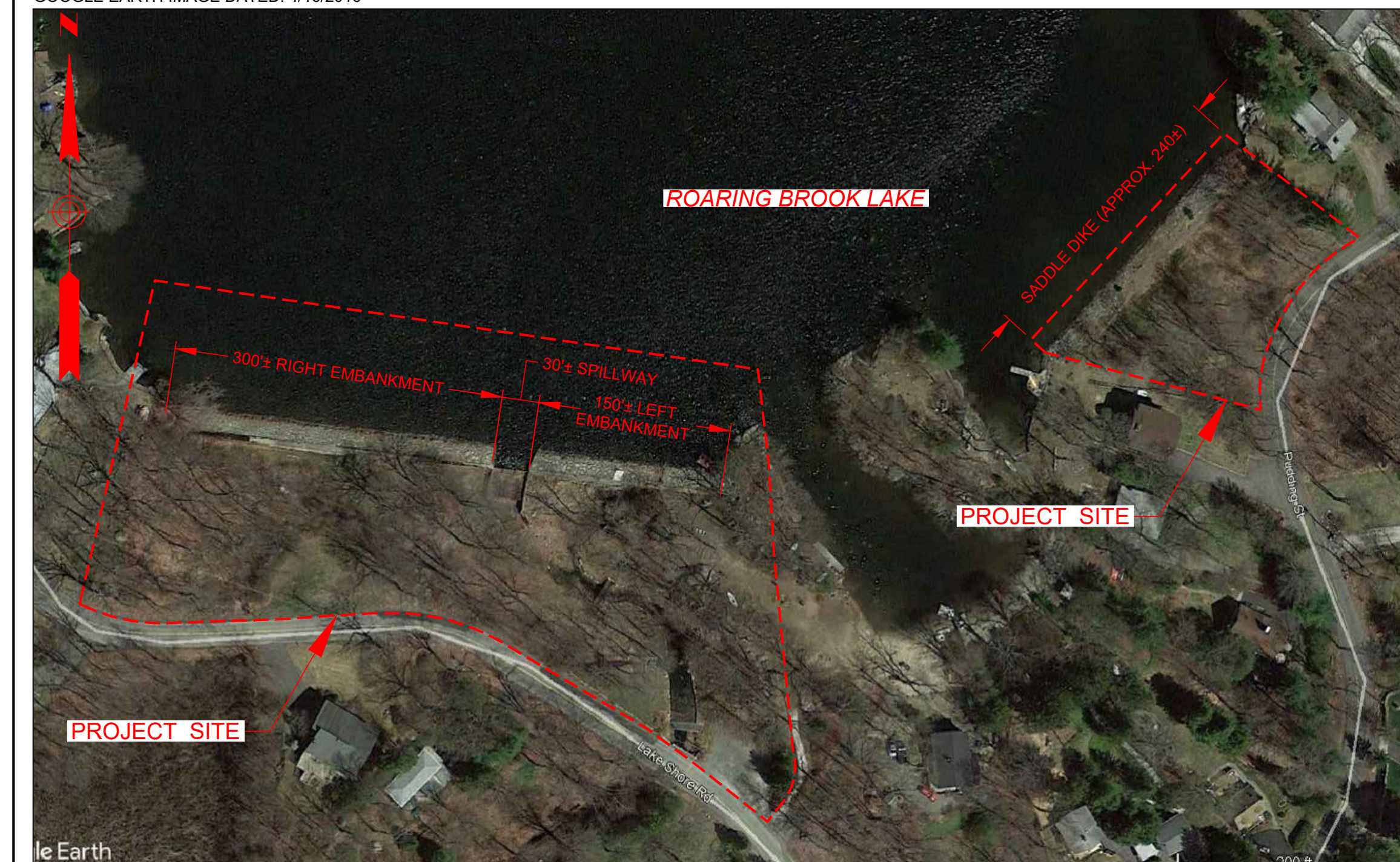
TOWN OF PUTNAM VALLEY
PUTNAM COUNTY
STATE OF NEW YORK

PREPARED FOR
TOWN OF PUTNAM VALLEY
PREPARED BY



ORTHOIMAGE
NOT TO SCALE

REFERENCE:
GOOGLE EARTH IMAGE DATED: 4/16/2016



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DRAFT

TITLE SHEET
PREPARED FOR
TOWN OF PUTNAM VALLEY
LOCATED IN THE
TOWN OF PUTNAM
PUTNAM COUNTY, NEW YORK



WSP USA
500 SUMMIT LAKE DRIVE
SUITE 450
VALHALLA, NY 10959
(914) 747-1120

DRAWING-1
SHEET 1 OF 11

WARNING			
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DATE	3/3/21	APPROVED BY	31403062-T1(M)

NEW YORK STATE LICENSED PROFESSIONAL ENGINEER

ABBREVIATIONS:

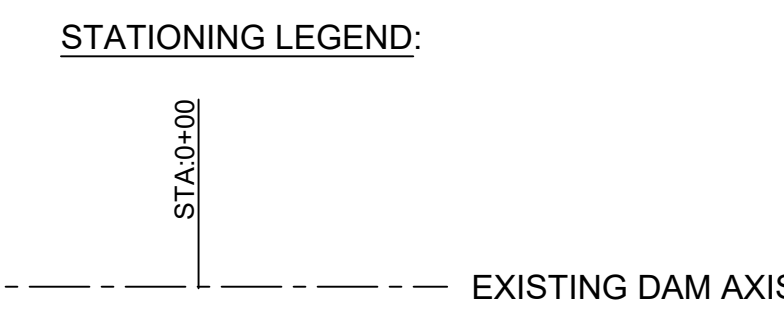
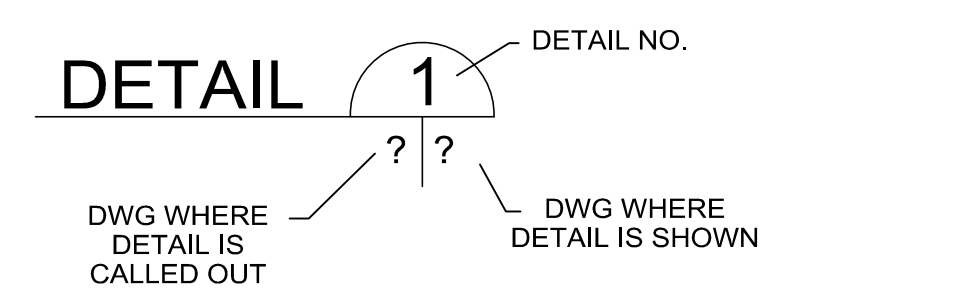
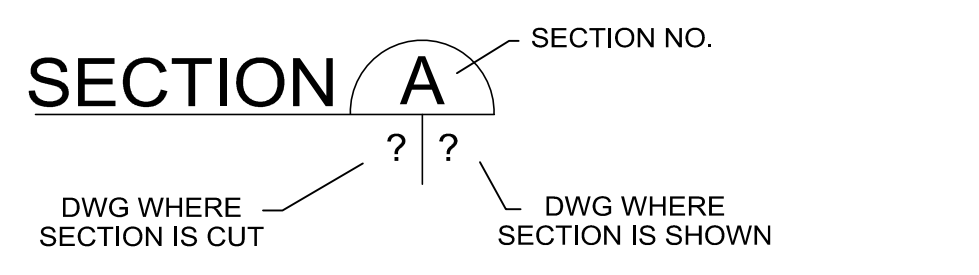
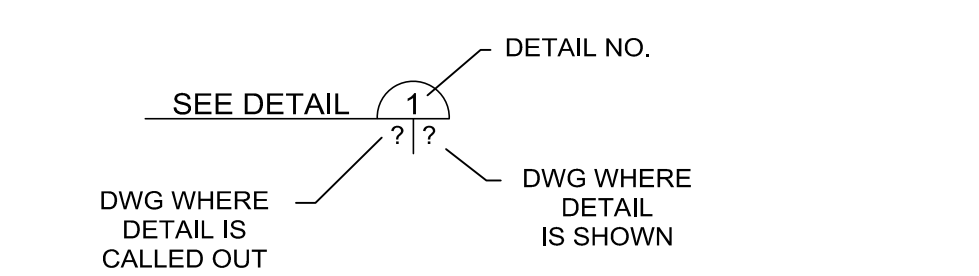
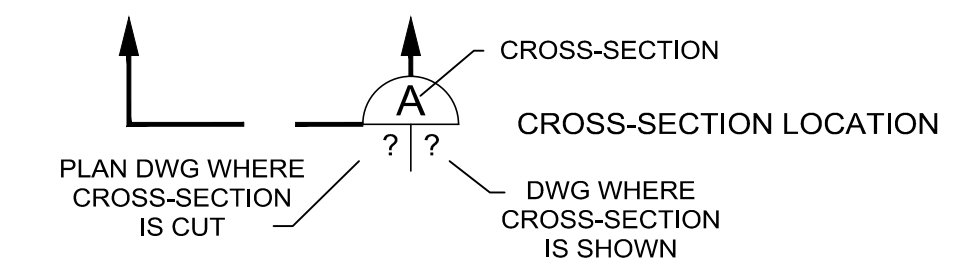
AASHTO	AMERICAN ASSOC. OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BF	BOTTOM FACE
BL	BASELINE
BOW	BOTTOM OF WALL
C.B.	CATCH BASIN
C.C. or CC or C/C	CENTER TO CENTER
CAD	COMPUTER AIDED DESIGN
CFS	CUBIC FEET PER SECOND
CIRC.	CIRCULATING
C.I.P.	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
C/L or CL or C	CENTER LINE
CLR.	CLEARANCE
C.M.P. or CMP	CORRUGATED METAL PIPE
CRS	CORROSION RESISTANT STEEL
CORR.	CORRUGATED
C.Y., CY OR CU. YDS.	CUBIC YARD
DIA.	DIAMETER
DIM.	DIMENSION
D.I.P.	DUCTILE IRON PIPE
D/S	DOWNSTREAM
D50	DIAMETER AT WHICH 50% OF THE SAMPLE IS SMALLER THAN
EF or E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEV. or EL.	ELEVATION
ETC.	AND SO FORTH
EW or E.W.	EACH WAY
EXIST.	EXISTING
FERC	FEDERAL ENERGY REGULATORY COMMISSION
FIG.	FIGURE
FPS	FEET PER SECOND
FS	FACTOR OF SAFETY
FT	FEET
FL or FLR	FLOOR
FML	FLEXIBLE MEMBRANE LINER
GS	GROUND SURFACE
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HWY	HIGHWAY
ID	IDENTIFICATION
I.D.	INSIDE DIAMETER
I.E. or INV. EL.	INVERT ELEVATION
INV.	INVERT
I.P.	IRON PIN
JT	JOINT
LB.	LENGTH
LBS.	POUND
LF or L.F.	POUNDS LINEAR FOOT/FEET
MAX.	MAXIMUM
MH	MANHOLE
MM	MILLIMETER
UG/L	MICROGRAMS PER LITER
MG/L	MILLIGRAMS PER LITER
MIN.	MINIMUM
MON.	MONUMENT
M.S.L.	MEAN SEA LEVEL
MW	MONITORING WELL
N.A.D.	NORTH AMERICAN DATUM
N.G.V.D.	NORTH GEODETIC VERTICAL DATUM
N.A.V.D.	NORTH AMERICAN VERTICAL DATUM
N/A	NOT APPLICABLE
NGS	NATIONAL GEODETIC SURVEY
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
OC or O.C.	ON CURVE
O.D.	OUTSIDE DIAMETER
OEL	OVERHEAD ELECTRICAL LINE
OF	OUTSIDE FACE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P.C.	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
P.I. or PI	POINT OF INTERSECTION
PPM	PARTS PER MILLION
PPB	PARTS PER BILLION
PRC	POINT OF REVERSE CURVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT or P.T.	POINT OF TANGENCY

ABBREVIATIONS:

RA or R	RADIUS
RCC	ROLLER COMPACTED CONCRETE
RC or R.C.P.	REINFORCED CONCRETE PIPE
REF.	REFERENCE
REV.	REVISION
ROW. or R.O.W.	RIGHT OF WAY
RQD	ROCK QUALITY DESIGNATION
RSCL	RESIDUAL SOIL CLAY-LIKE
SECT. or SEC	SECTION
SPEC(S) or SPEC.	SPECIFICATION
SPT	STANDARD PENETRATION TEST
SS	STAINLESS STEEL
STA.	STATION
STL.	STEEL
TAN	TANGENT
T.B.	TOP AND BOTTOM
TD	TOTAL DEPTH
TF	TOP FACE
TOW	TOP OF WALL
TP	TEST PIT
TYP or TYP.	TYPICAL
U/S	UPSTREAM
UEL	UNDERGROUND ELECTRIC LINE
U.P.	UTILITY POLE
VC	VERTICAL CURVE
VP or VPI	VERTICAL POINT OF INTERSECTION
W.E.	WATER ELEVATION
W/	WITH
W/O	WITHOUT
WT.	WEIGHT
W.V.	WATER VALVE
YD.	YARD

LEGEND:

	EXISTING
	CLEARING LIMITS
	LIMIT OF EXCAVATION
	EDGE OF WATER/ShORELINE
	EXISTING INTERMEDIATE CONTOUR
	EXISTING INDEX CONTOUR (5' INTERVAL)
	TREE LINE
	PROPERTY LINE
	FENCE
	SILT FENCE
	ELECTRIC LINE (OVERHEAD)
	ELECTRIC LINE (UNDERGROUND)
	WATER LINE
	UNDERGROUND CABLE/CONDUIT
	GUARDRAILS
	WATER ELEVATION
	STEEL PLATE
	STRUCTURAL ANGLE
	EDGE OF BUILDING
	SPOT ELEVATION
	UTILITY POLE
	SLOPE INDICATOR
	SLOPE DIRECTION
	FLOW DIRECTION



SYMBOLS:

	BEDROCK
	SAND
	CONCRETE
	NATIVE SOIL
	SELECT FILL
	RIP RAP/ROCK FILL

@	AT OR SPACING CENTER TO CENTER
&	AND
'	FEET
"	INCHES
△	DELTA
∠	DELTA ANGLE
∠	ANGLE
∅	DIAMETER

NO.	DATE	REVISIONS	APPROVED
1	11/23/21	90% DESIGN	


WARNING

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DRAWN	GPB	CHECKED BY		CAD FILE NUMBER	31403062-T1(M)
DATE	3/3/21	APPROVED BY			

ABBREVIATIONS AND LEGEND

PREPARED FOR
TOWN OF PUTNAM VALLEY
LOCATED IN THE
TOWN OF PUTNAM
PUTNAM COUNTY, NEW YORK



WSP USA
500 SUMMIT LAKE DRIVE
SUITE 450
VALHALLA, NY 10995
(914) 747-1120

DRAWING-2
SHEET 2 OF 11

NEW YORK STATE LICENSED
PROFESSIONAL ENGINEER

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS, EXCEPT WHERE MODIFIED ON THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING PUBLIC ROADS CAUSED BY HIS OPERATIONS IN ACCORDANCE WITH NYS DOT, PUTNAM COUNTY AND TOWN OF PUTNAM VALLEY DPW REQUIREMENTS.
- ALL ELEVATIONS ARE SHOWN AT NORTH AMERICAN VERTICAL DATUM (NAVD 1988) UNLESS OTHERWISE INDICATED. HORIZONTAL LOCATIONS ARE BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27).
- ACTUAL EXCAVATION DEPTH WILL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION, BY THE ENGINEER OR OWNER'S REPRESENTATIVE.
- TOP OF ROCK IS DEFINED AS THE APPROXIMATE ELEVATION WHERE CORING OPERATIONS BEGIN (AUGER REFUSAL).
- THE CONTRACTOR, AT THEIR DISCRETION, MAY DRAWN THE RESERVOIR DOWN A MAXIMUM OF 5 FEET IN ORDER TO PROVIDE ADDITIONAL STORAGE CAPACITY FOR INFLOW TO THE RESERVOIR OR ACCESS TO UPSTREAM AREAS. THE CONTRACTOR MUST BE PREPARED FOR AND SHALL ASSUME THE RISK OF OVERFLOW SPILLAGE DUE TO SEVERE STORMS.
- NO CONCRETE OR MORTAR IS TO BE DISCHARGED INTO THE STREAM OR RESERVOIR.
- ALL CONCRETE EQUIPMENT AND TOOLS SHALL BE CLEANED AS FAR AWAY FROM THE STREAM AS PRACTICABLE.
- 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 DAILY UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (0.5) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE FINAL GRADING.
- 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 OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- ANY DAMAGE TO EXISTING STRUCTURES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE REPLACED AND REPAIRED BY THE CONTRACTOR TO ORIGINAL CONDITION AS DETERMINED BY THE ENGINEER OR THE TOWN OF PUTNAM VALLEY.
- THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS, LOCATIONS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY UNCERTAINTIES AND DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION PRIOR TO COMMENCING THAT WORK FEATURE.
- THE CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL OFF THE TOWN OF PUTNAM VALLEY LAND AT AN APPROVED OFF-SITE DISPOSAL AREA IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS. ALL PERMITS REQUIRED FOR OFF-SITE DISPOSAL SHALL BE OBTAINED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH AND THE ENFORCEMENT OF ALL APPLICABLE SAFETY REGULATIONS.
- IN CASE OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND CONSTRUCTION DOCUMENTS, THE STRICTEST REQUIREMENTS AS DETERMINED BY THE ENGINEER SHALL GOVERN.

SEDIMENT CONTROL:

- CONTRACTOR SHALL PROVIDE AND MAINTAIN SEDIMENT CONTROL SERVICES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS THROUGHOUT THE TERM OF THE WORK COVERED BY THIS CONTRACT. SEE SPECIFICATIONS SECTION 02430 STABILIZATION MEASURES FOR EROSION AND SEDIMENT CONTROL.

DEMOLITION:

- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS CALLED FOR IN THE PLANS AT AN APPROVED OFF-SITE LOCATION.
- SEE SECTION 02060 DEMOLITION FOR ADDITIONAL INFORMATION.

EXCAVATION:

- ALL EXCAVATED MATERIAL SHALL BE USED FOR FINAL SITE GRADING ACTIVITIES.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR ANY ROAD SURFACE IRREGULARITIES CAUSED BY LOADING OR HAULING OPERATIONS AS DETERMINED BY THE ENGINEER OR THE CITY OF BEACON.

CAST-IN-PLACE CONCRETE:

- ALL CONCRETE WORK SHALL COMPLY WITH AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS (LATEST EDITION).
- ALL CONCRETE SHALL CONFORM TO:
 - MINIMUM F'C: 4000 PSI @ 28-DAYS.
 - MAXIMUM SLUMP: 3 INCHES
 - MAXIMUM W-C RATIO: 0.41
 - MAXIMUM AGGREGATE SIZE: 1.5 INCH
 - AIR ENTRAINMENT: 6% BY VOLUME
- SEE SECTION 03300 CAST IN PLACE CONCRETE FOR ADDITIONAL INFORMATION.
- ALL MIXING, HANDLING AND TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI STANDARDS.
- CRACK CONTROL JOINTS SHALL BE PLACED AS SHOWN ON PLANS OR ELEVATIONS PER SECTION 03300 CAST IN PLACE CONCRETE AND 03240 EXPANSION JOINTS, CONSTRUCTION JOINTS, AND WATERSTOPS.
- CONTROL JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE AND LOCATED TO NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE STRUCTURE. CONTRACTOR SHALL SUBMIT LOCATION OF PROPOSED JOINTS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

SURVEY NOTES:

- ALL ELEVATIONS ARE SHOWN RELATIVE TO LOCAL SITE DATUM. TOPOGRAPHIC SURVEY WAS COMPLETED IN MARCH 2021 RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SURVEYED ELEVATIONS WERE THEN DECREASED BY 8.5 FEET TO CONVERT FROM NAVD88 TO LOCAL DATUM AND MAINTAIN CONSISTENCY WITH 1993 PROJECT RECORD DRAWINGS. HORIZONTAL LOCATIONS ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), NEW YORK EAST.
- THE LOCATION OF THE UTILITIES AS SHOWN ON THE PLANS HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS SOURCES. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO CONSTRUCTION.

REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM STANDARD A-615, GRADE 60, UNLESS OTHERWISE SHOWN AND ASTM A775. NO TACK WELDING OF REINFORCING SHALL BE PERMITTED. PLACEMENT AND DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI SP-66, RESPECTIVELY (LATEST EDITIONS).
- ALL REBAR SHALL HAVE A MINIMUM COVER OF 3 INCHES UNLESS NOTED OTHERWISE.
- ALL REINFORCING SHALL BE SUPPORTED ON STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT DURING CONCRETE PLACEMENT.
- ALL HORIZONTAL AND VERTICAL REINFORCING STEEL SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

CONCRETE FORMWORK:


- ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI 347, RECOMMENDED STANDARD PRACTICE FOR CONCRETE FORMWORK.
- THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED DURING CONSTRUCTION INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE.
- UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR FORMWORK SHALL CONFIRM TO ACI STANDARD 117, STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS. THE CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO VERIFY THAT THE WORK IS WITHIN THE SPECIFIED TOLERANCES.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED AS SHOWN ON THE DRAWINGS.

SUMMARY OF WORK:

- MOBILIZATION AND DEMOBILIZATION OF ALL PERSONNEL, EQUIPMENT, MATERIALS, AND ANYTHING ELSE REQUIRED TO PERFORM THE CONSTRUCTION WORK.
- SITE SURVEYING TO ESTABLISH THE APPROPRIATE DESIGN ELEVATIONS.
- INSTALLING OF EROSION AND SEDIMENT CONTROLS AND ANY OTHER ENVIRONMENTAL PROTECTION MEASURES.
- CONSTRUCT DOWNSTREAM CHANNEL FOR AUXILIARY SPILLWAY.
- CONSTRUCT NEW AUXILIARY SPILLWAY.
- PATCH EXISTING TRAINING WALLS FOR MAIN DAM.
- RAISE TRAINING WALL MASONRY CAP.
- PATCH DOWNSTREAM CRACKS ALONG AUXILIARY SPILLWAY WITH SHOTCRETE.
- RAISE MAIN DAM PARAPET WALL .
- RAISE SADDLE DIKE PARAPET WALL.
- PLACE GROUTED RIPRAP ALONG DOWNSTREAM AUXILIARY SPILLWAY STREAMBED.
- INSTALL NEW METAL CHAIN-LINK FENCE ON PARAPET WALLS.
- SITE RESTORATION.

NO.	DATE	REVISIONS	APPROVED
1	11/23/21	90% DESIGN	

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DRAWN	GPB	CHECKED BY	
DATE	3/3/21	APPROVED BY	
CAD FILE NUMBER		31403062-T1(M)	

<p>GENERAL NOTES</p> <p>PREPARED FOR TOWN OF PUTNAM VALLEY</p> <p>LOCATED IN THE TOWN OF PUTNAM PUTNAM COUNTY, NEW YORK</p>		 <p>WSP USA 500 SUMMIT LAKE DRIVE SUITE 450 VALHALLA, NY 10995 (914) 747-1120</p>	<p>DRAWING-3 SHEET 3 OF 11</p>
<p>NEW YORK STATE LICENSED PROFESSIONAL ENGINEER</p>			



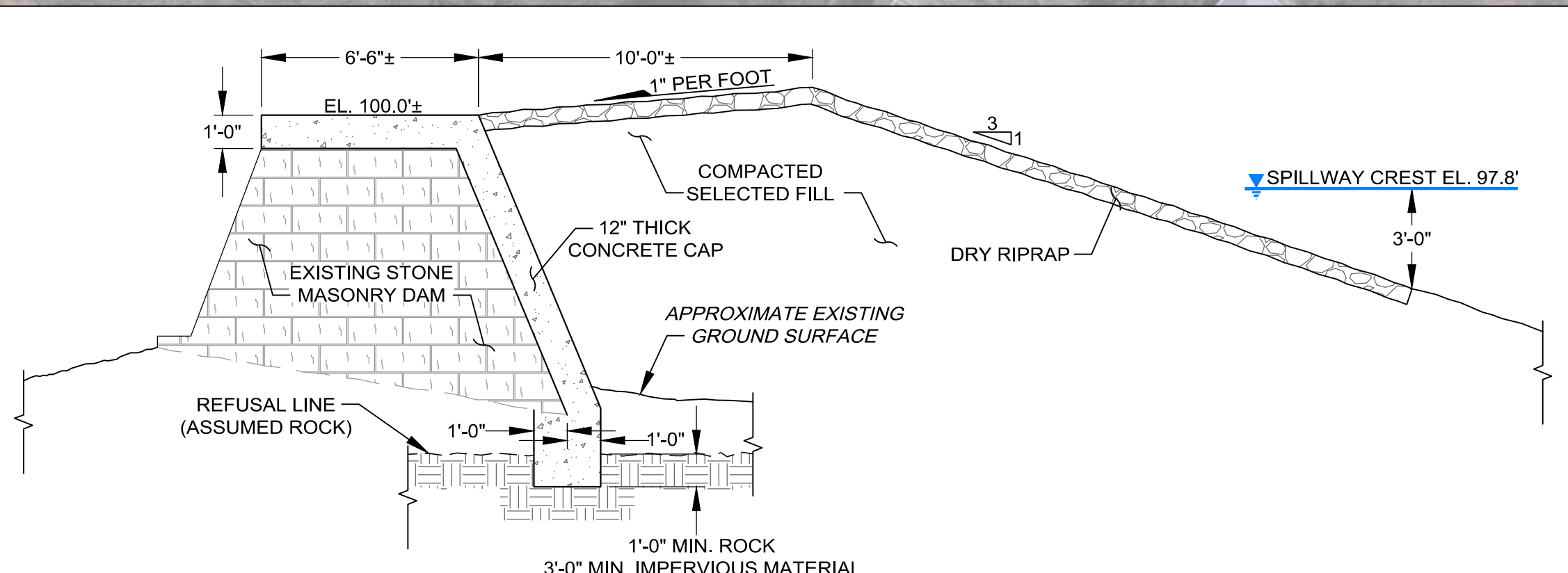
SEE DETAIL 1
CONSTRUCTION
ENTRANCE 4 | 5

SEE DETAIL 2
SILT FENCE 4 | 5

SEE DETAIL 3
HAY BALE DIKE 4 | 6

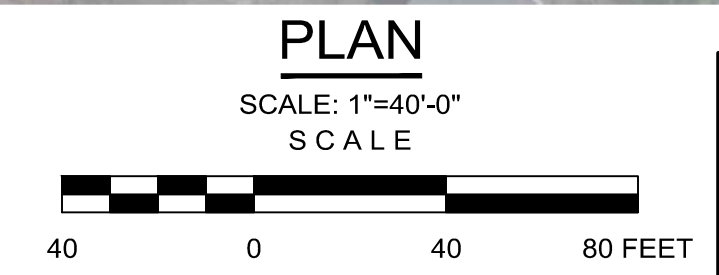
SEE DETAIL 4
STAGING / STOCKPILING AREA 4 | 6

- NOTES:**
1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP DURING MARCH OF 2021.
 2. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE NEW YORK EAST STATE PLANE COORDINATE SYSTEM NAD83.
 3. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD 1988.
 4. THERE WAS NO UNDERGROUND UTILITY INVESTIGATION COMPLETED FOR THE SITE. ANY UNDERGROUND UTILITY INFORMATION SHOWN HEREON WAS THE RESULT OF FIELD OBSERVATIONS.



SECTION A
TYPICAL DAM SECTION

SCALE: 1/4"=1'-0"
SCALE



NO.	DATE	REVISIONS	APPROVED
A	11/23/21	90% DESIGN	

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DATE	4/26/21	APPROVED BY		

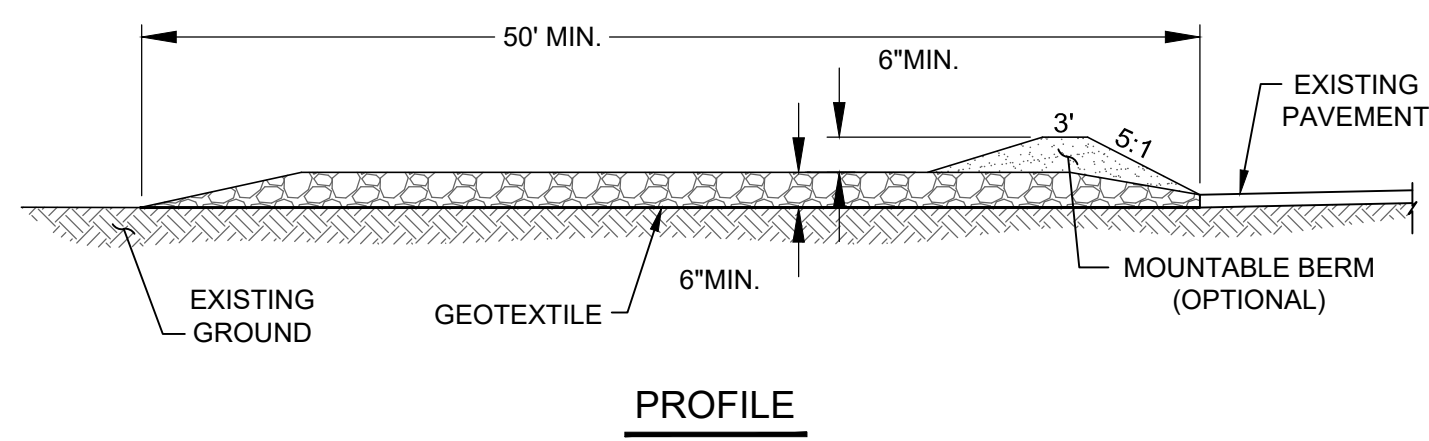
NEW YORK STATE LICENSED PROFESSIONAL ENGINEER

ROARING BROOK LAKE DAM REHABILITATION PROJECT
TOWN OF PUTNAM VALLEY, NEW YORK
EXISTING SITE PLAN, DAM SECTION AND EROSION AND SEDIMENT CONTROL MEASURES
PREPARED FOR
TOWN OF PUTNAM VALLEY
LOCATED IN THE
TOWN OF PUTNAM VALLEY
PUTNAM COUNTY, NEW YORK

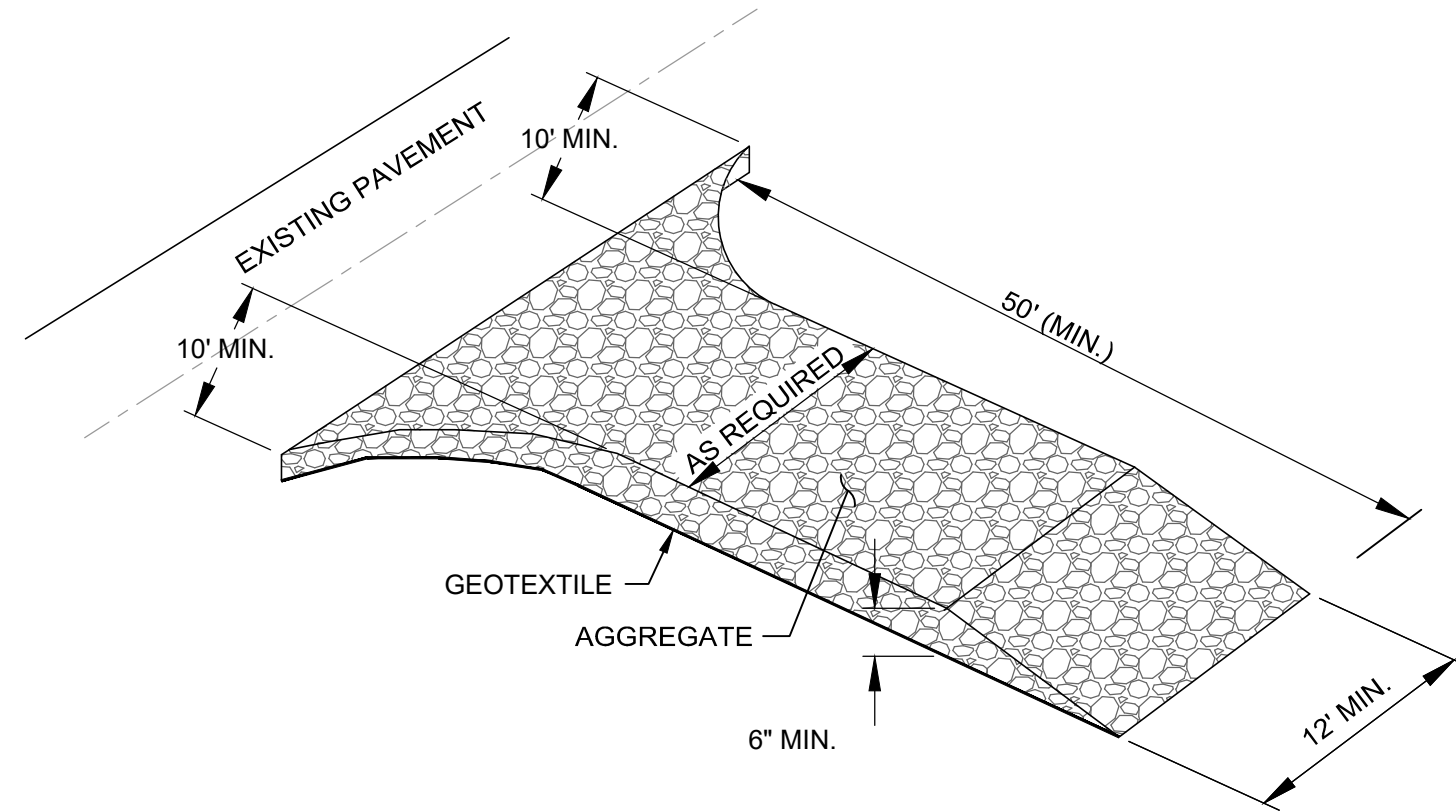


WSP USA
500 SUMMIT LAKE DRIVE
SUITE 450
VALHALLA, NY 10995
(814) 747-1120

DWG-4
SHEET 4 OF 11



PROFILE



PLAN

STABILIZED CONSTRUCTION ENTRANCE

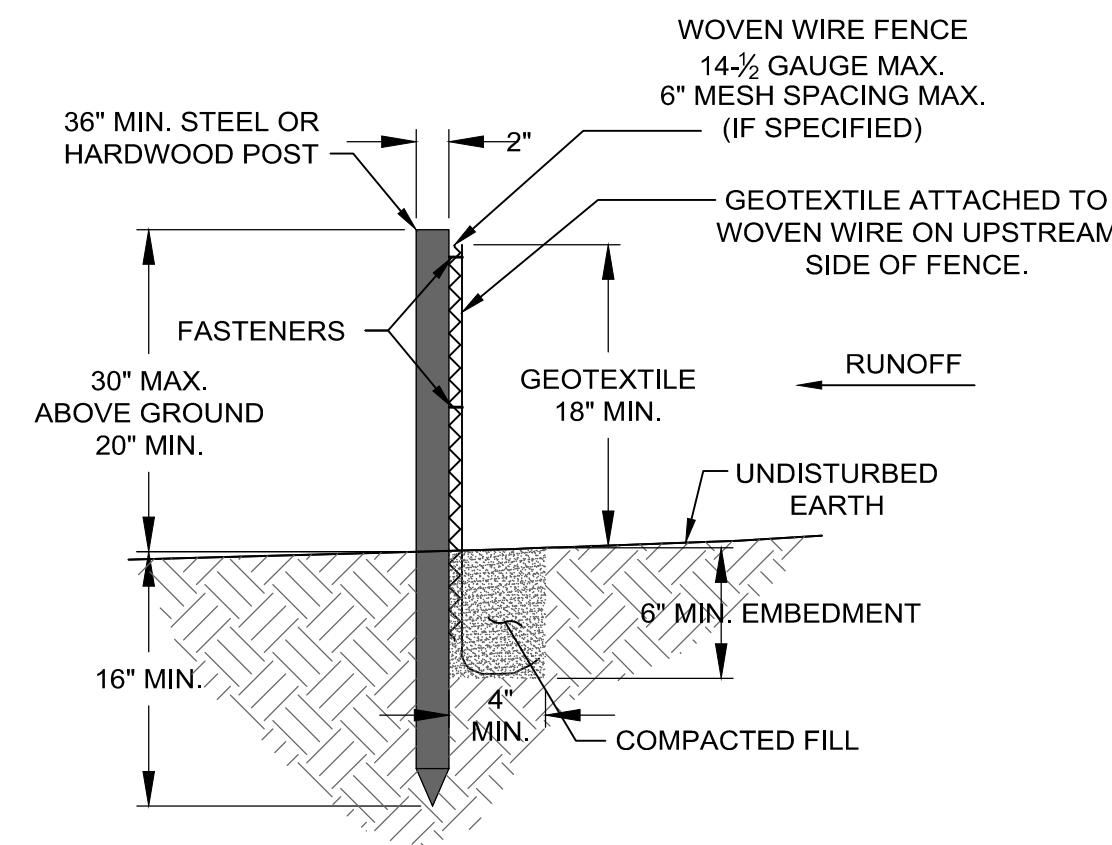
NOT TO SCALE
SEE CONSTRUCTION ENTRANCE NOTES



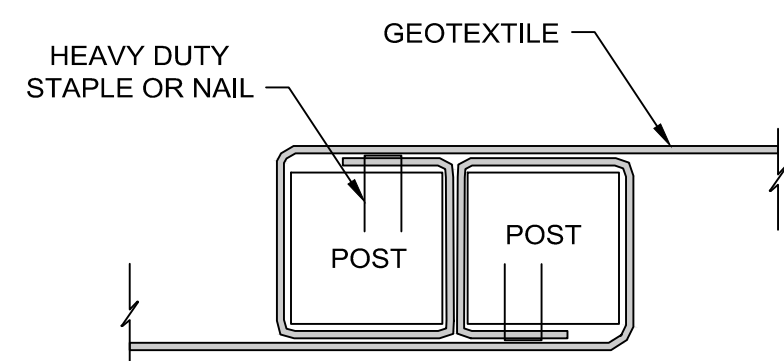
DETAIL 1

Slope	Steepness	Slope Length/Fence Length (ft.)		
		Standard	Reinforced	Super
<2%	< 50:1	300/1500	N/A	N/A
2-10%	50:1 to 10:1	125/1000	250/2000	300/2500
10-20%	10:1 to 5:1	100/750	150/1000	200/1000
20-33%	5:1 to 3:1	60/500	80/750	100/1000
33-50%	3:1 to 2:1	40/250	70/350	100/500
>50%	> 2:1	20/125	30/175	50/250

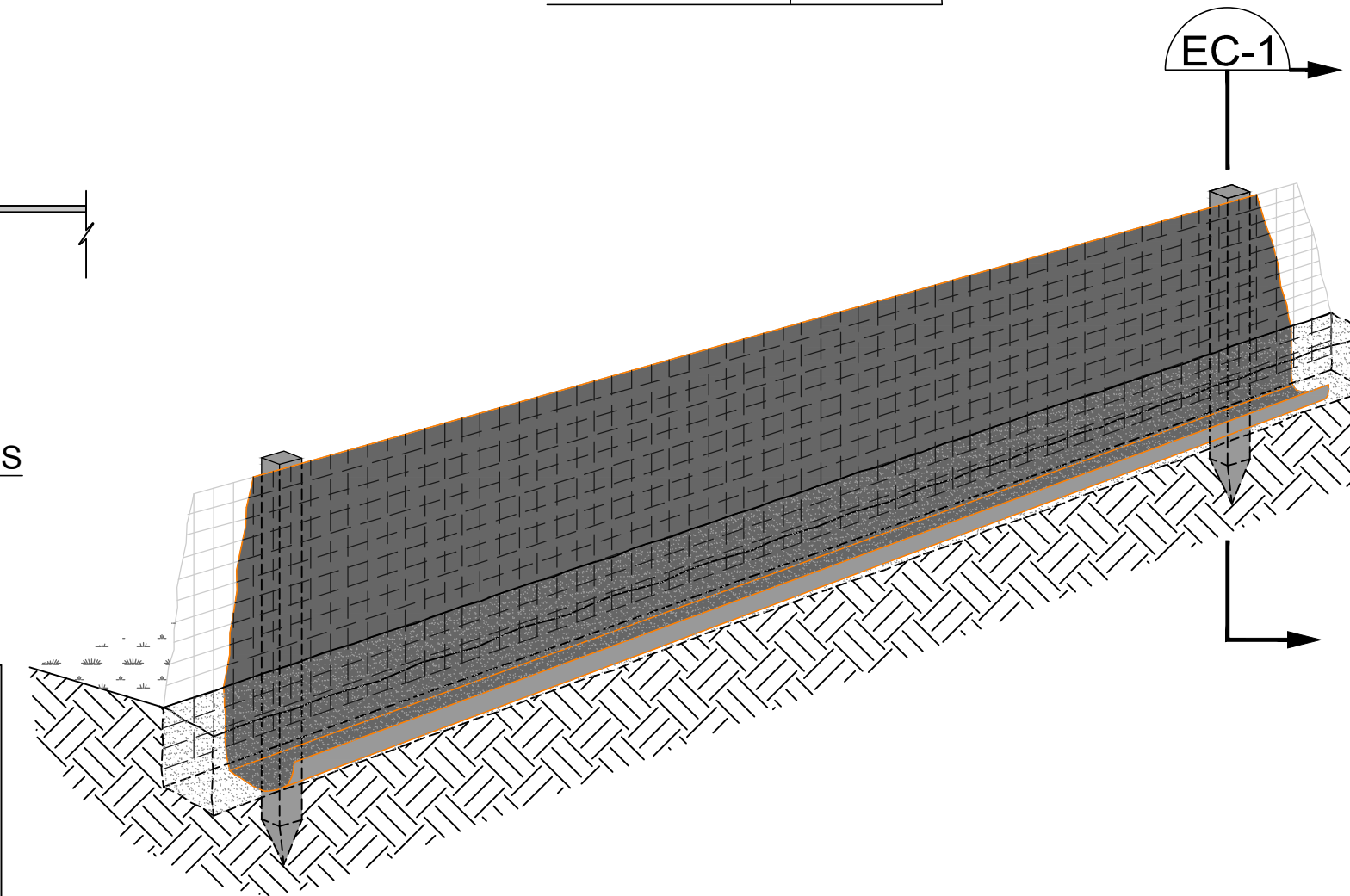
Standard Silt Fence (SF) is fabric rolls stapled to wooden stakes driven 16 inches in the ground.
Reinforced Silt Fence (RSF) is fabric placed against welded wire fabric with anchored steel posts driven 16 inches in the ground.
Super Silt Fence (SSF) is fabric placed against chain link fence as support backing with posts driven 3 feet in the ground.



TYPICAL SECTION
SECTION EC-1



JOINING FENCE SECTIONS



DETAIL 2
NOT TO SCALE
SEE SILT FENCE NOTES

SILT FENCE NOTES: (SEE DETAIL #2 & TABLES 1 & 2)

1. THE TYPE OF SILT FENCE SPECIFIED FOR EACH LOCATION ON THE PLAN SHALL NOT EXCEED THE MAXIMUM SLOPE LENGTH AND MAXIMUM FENCE LENGTH SHOWN IN TABLE-1.
2. THE FABRIC SHALL MEET THE SPECIFICATIONS PROVIDED IN TABLE-2.
3. GEOTEXTILE FENCE MUST BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT TO PREVENT RUNOFF FROM MIGRATING AROUND THE FENCE.
4. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE FENCE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY WHEN BULGES DEVELOP IN FENCE. CONTACT OWNERS REPRESENTATIVE BEFORE SEDIMENT IS REMOVED.
5. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. WHERE TWO POSTS MEET TO JOIN FENCE SECTIONS, THE TOPS OF THE POSTS SHALL BE SECURED TOGETHER WITH WIRE.
7. POSTS SHALL BE SPACED @ 10 FOOT C-C MAX. POSTS SHALL BE STEEL TYPE "T" OR "U" OR 2" X 2" HARDWOOD.
8. SECURELY FASTEN WOVEN WIRE FENCE TO POSTS WITH WIRE TIES SPACED 24 INCHES AT THE TOP AND MIDSECTION OF THE FENCE, OR ACCORDING TO MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
9. PREFABRICATED UNITS ARE ACCEPTABLE AS LONG AS ALL MATERIAL SPECIFICATIONS ARE MET.

CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

TABLE-2

GEOTEXTILE Fabric Properties	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	110	ASTM D 4632
Elongation at Failure (%)	20	ASTM D 4632
Mullen Burst Strength (PSI)	300	ASTM D 3786
Puncture Strength (lbs)	60	ASTM D 4833
Minimum Trapezoidal Tear Strength (lbs)	50	ASTM D 4533
Flow Through Rate (gal/min/sf)	25	ASTM D 4491
Equivalent Opening Size	40-80	US Std Sieve ASTM D 4751
Minimum UV Residual (%)	70	ASTM D 4355

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TOWN OF PUTNAM VALLEY, NEW YORK

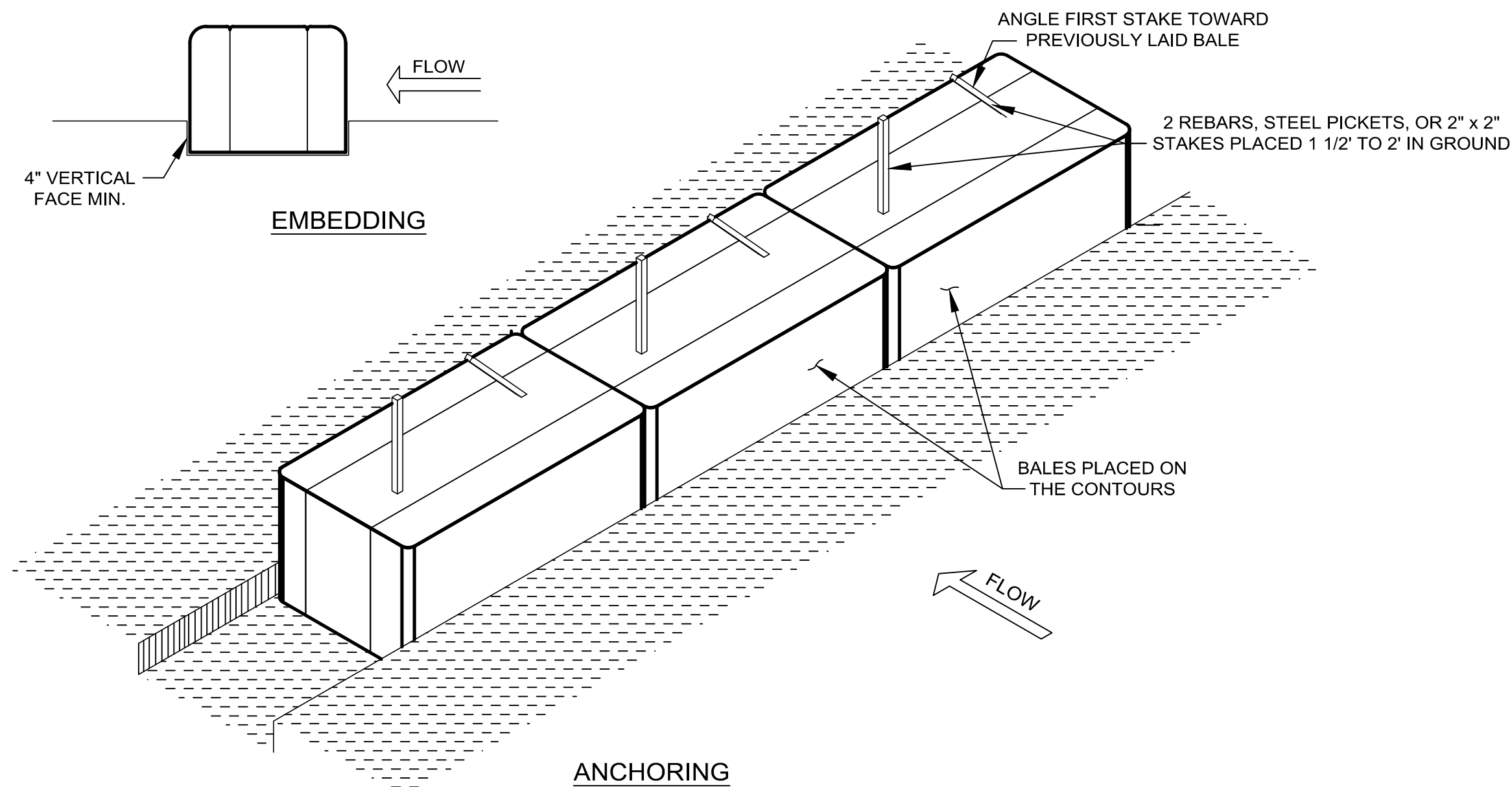
EROSION AND SEDIMENT CONTROL DETAILS (1 OF 2)

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LOCATED IN THE
TOWN OF PUTNAM VALLEY
PUTNAM COUNTY, NEW YORK

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DWG-5
SHEET 5 OF 11

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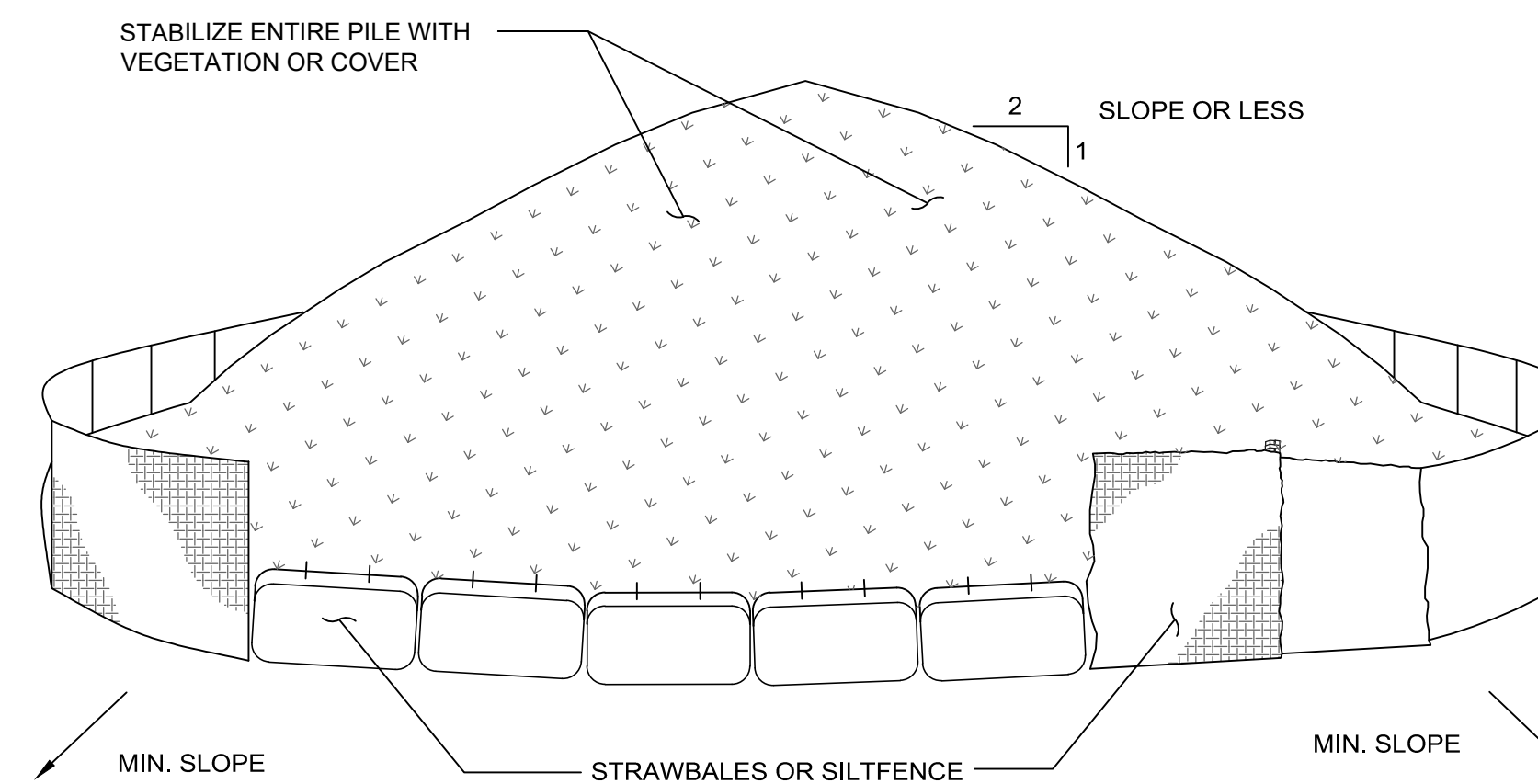


ANCHORING



STRAW BALE DIKE

NOT TO SCALE
SEE STRAW BALE DIKE NOTES



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

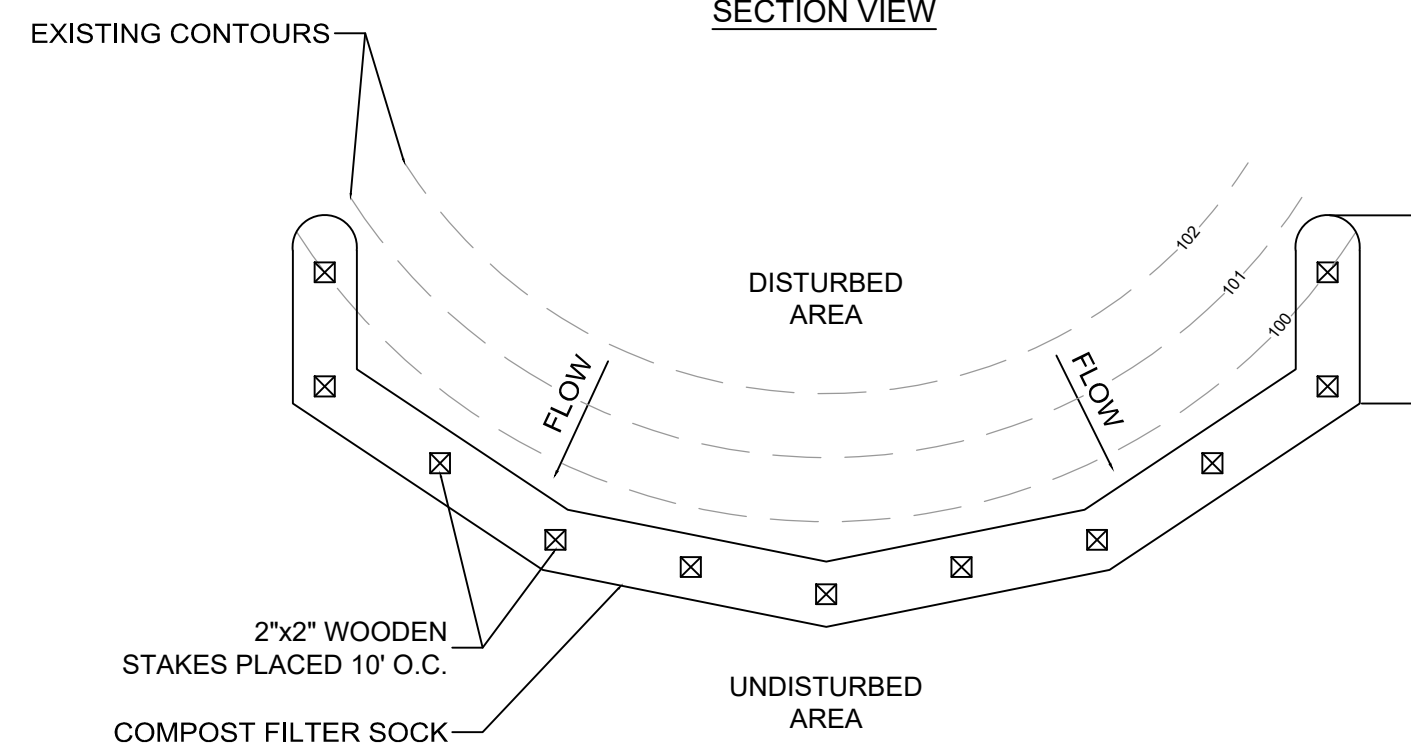
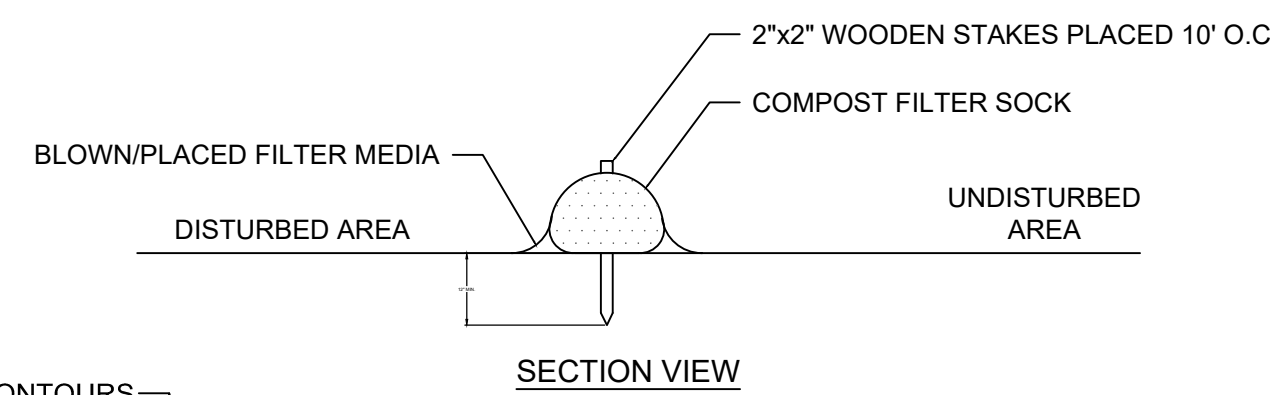


SOIL STOCKPILING DETAIL

NOT TO SCALE

STRAW BALE DIKE NOTES: (SEE DETAIL #3)

1. REPLACE STRAW BALE DIKES AT LEAST OF 3 MONTHS AFTER INSTALLATION OR AFTER STORM EVENTS LARGER THAN 1".
2. MAXIMUM ALLOWABLE SLOPE LENGTHS BEHIND STRAW BALE DYKES SHALL CONFORM TO TABLE 1.
3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
4. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES.
5. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER. ALL OTHER STAKES SHALL BE DRIVEN FLUSH WITH BALE.
6. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. 100-FOOT SPACING BETWEEN STRAW BALE DIKES IS REQUIRED. MAXIMUM AREA BEHIND 100-FOOT LENGTH OF BALES SHALL NOT EXCEED 0.25 ACRES.



COMPOST FILTER SOCK NOTES:

1. SOCK FABRIC SHALL MEET NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL OF TABLE 5.1. COMPOST SHALL MEET THE STANDARDS LISTED ON OF TABLE 5.2.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (SEE ABOVE). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON THE TABLE BELOW. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.


COMPOST FILTER SOCK
SCALE: NOT TO SCALE

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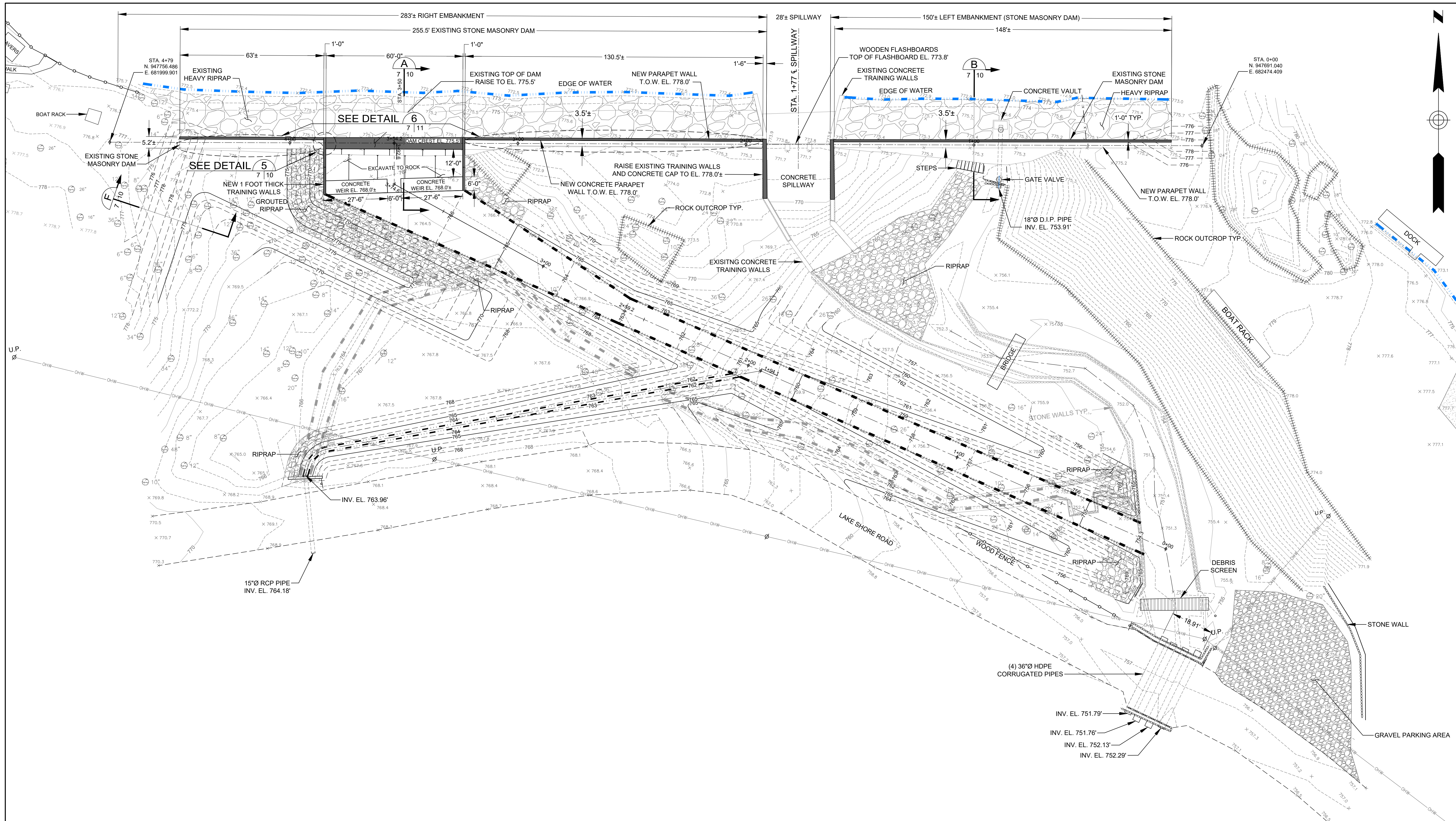
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ROARING BROOK LAKE DAM REHABILITATION PROJECT TOWN OF PUTNAM VALLEY, NEW YORK	
EROSION AND SEDIMENT CONTROL DETAILS (2 OF 2) PREPARED FOR TOWN OF PUTNAM VALLEY LOCATED IN THE TOWN OF PUTNAM VALLEY PUTNAM COUNTY, NEW YORK	
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DWG-6 SHEET 6 OF 11	

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PLAN

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ROARING BROOK LAKE DAM REHABILITATION PROJECT
TOWN OF PUTNAM VALLEY, NEW YORK

PROPOSED REHABILITATION PLAN - (1 OF 2)

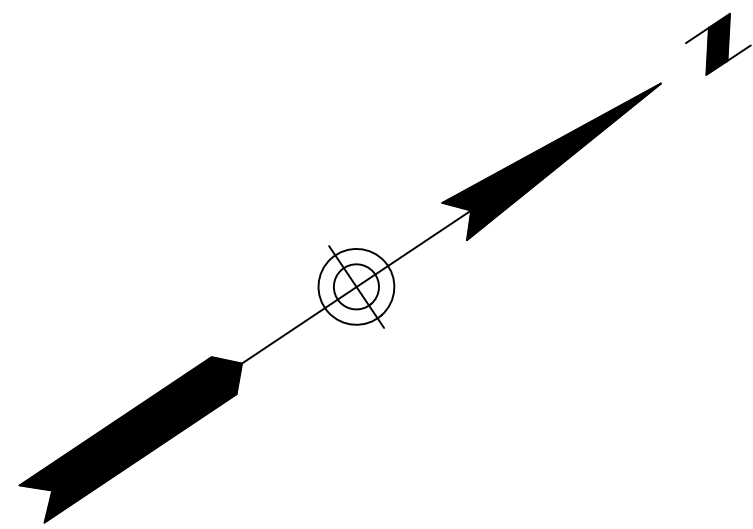
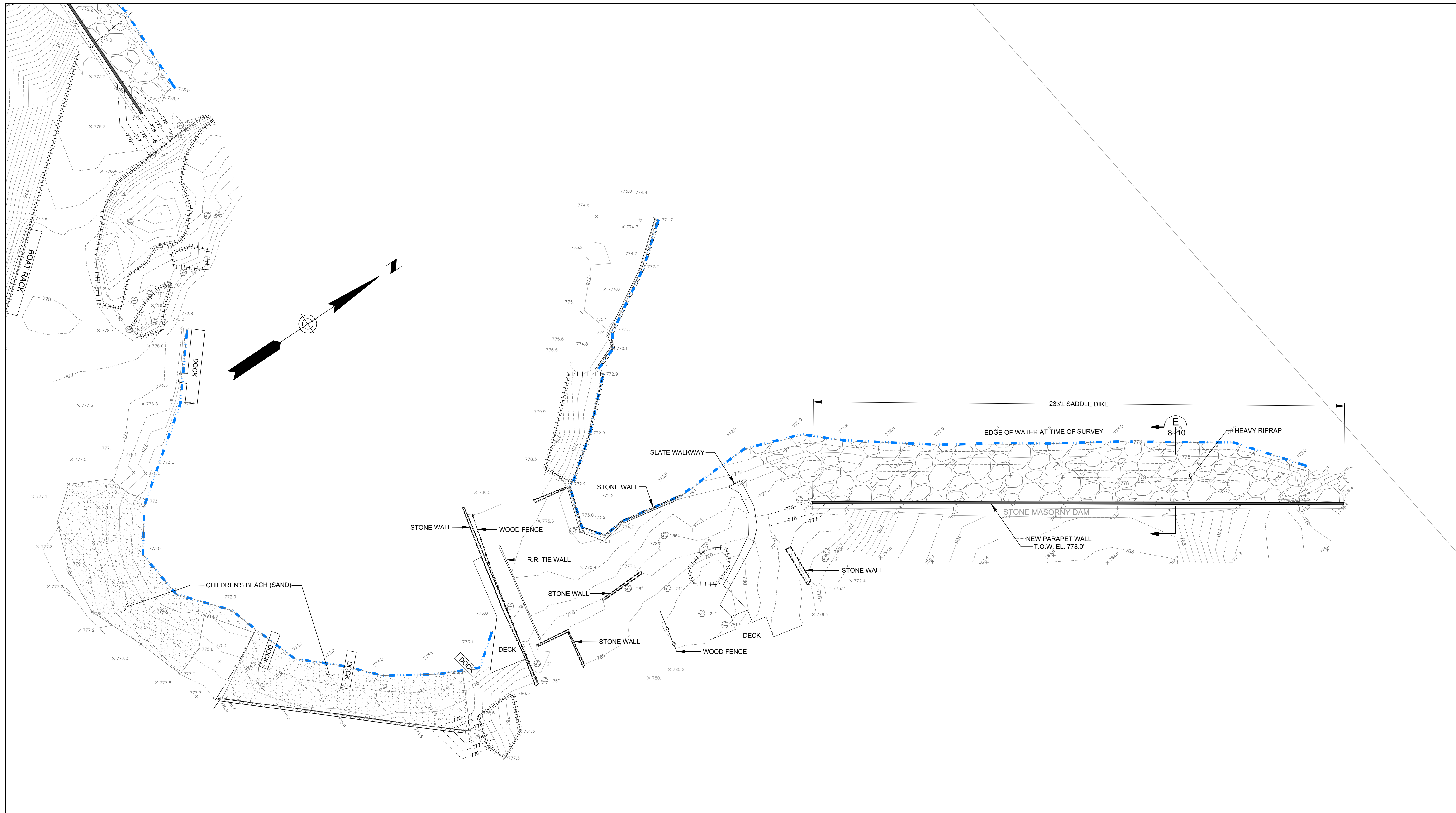
PREPARED FOR
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LOCATED IN THE
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SHEET 7 OF 11

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PLAN

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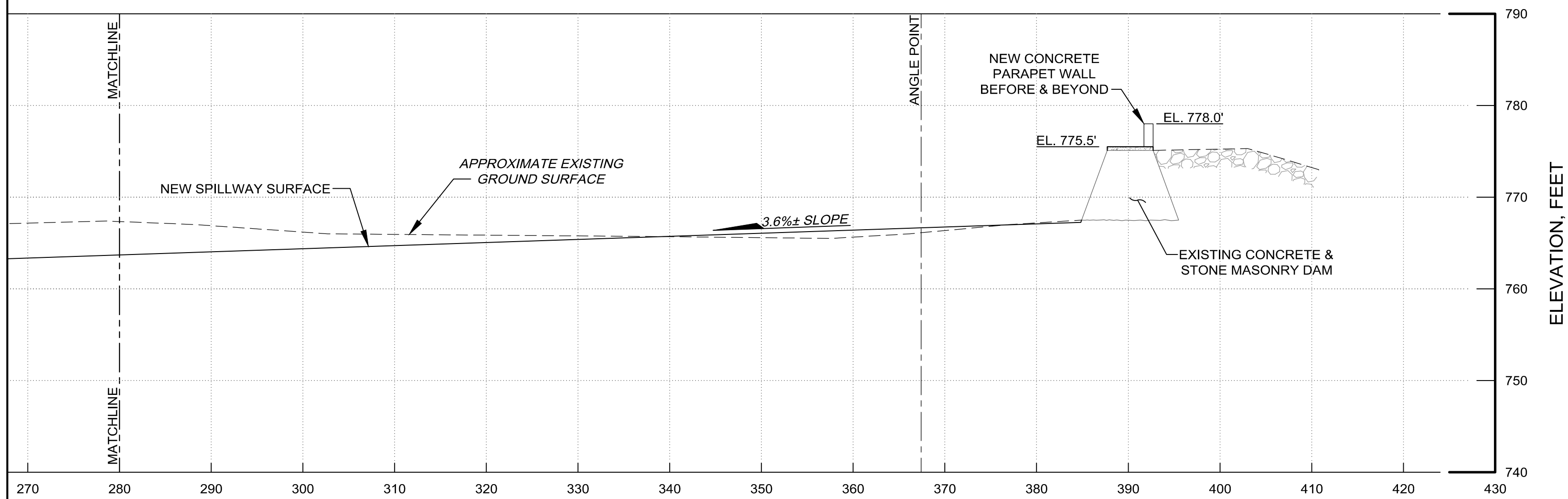
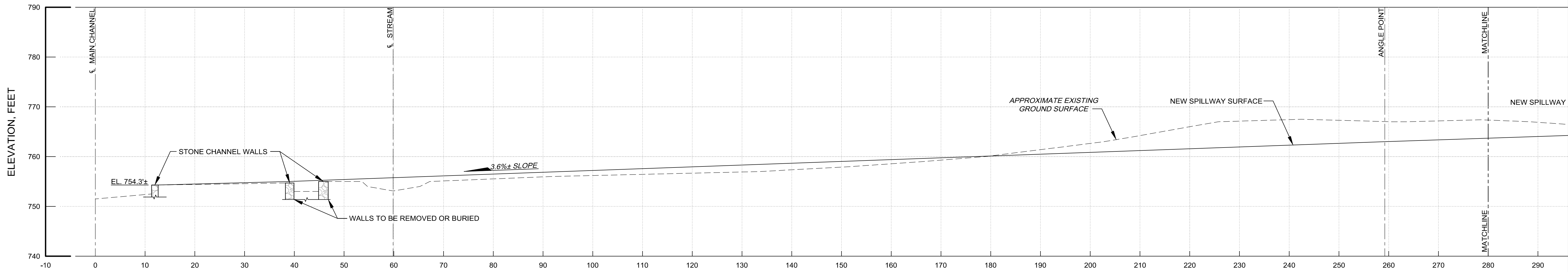
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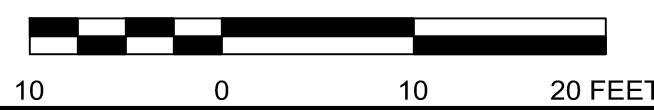
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<p>ROARING BROOK LAKE DAM REHABILITATION PROJECT TOWN OF PUTNAM VALLEY, NEW YORK</p> <p>PROPOSED REHABILITATION PLAN - (2 OF 2)</p> <p>PREPARED FOR TOWN OF PUTNAM VALLEY LOCATED IN THE TOWN OF PUTNAM VALLEY PUTNAM COUNTY, NEW YORK</p>	
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<p>DWG-8 SHEET 8 OF 11</p>	



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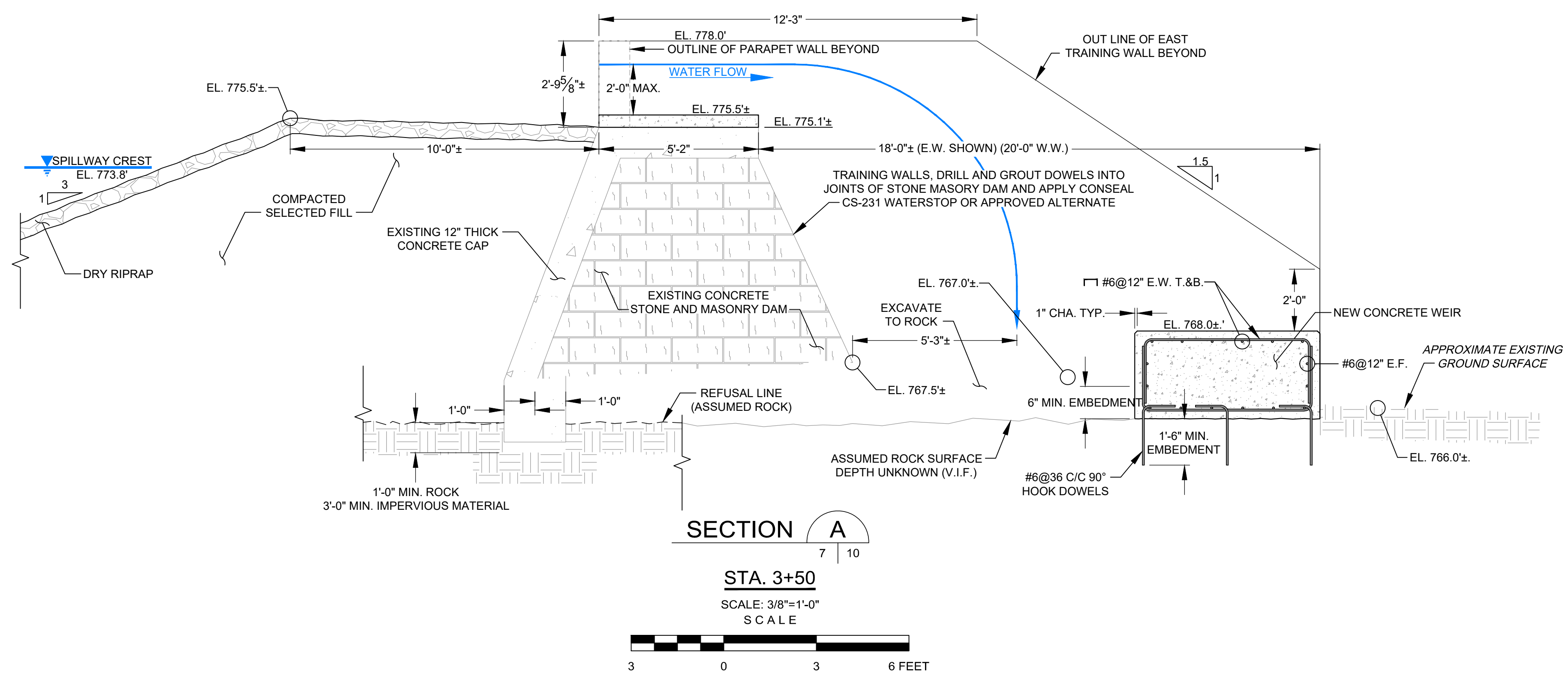
EMERGENCY SPILLWAY PROFILE

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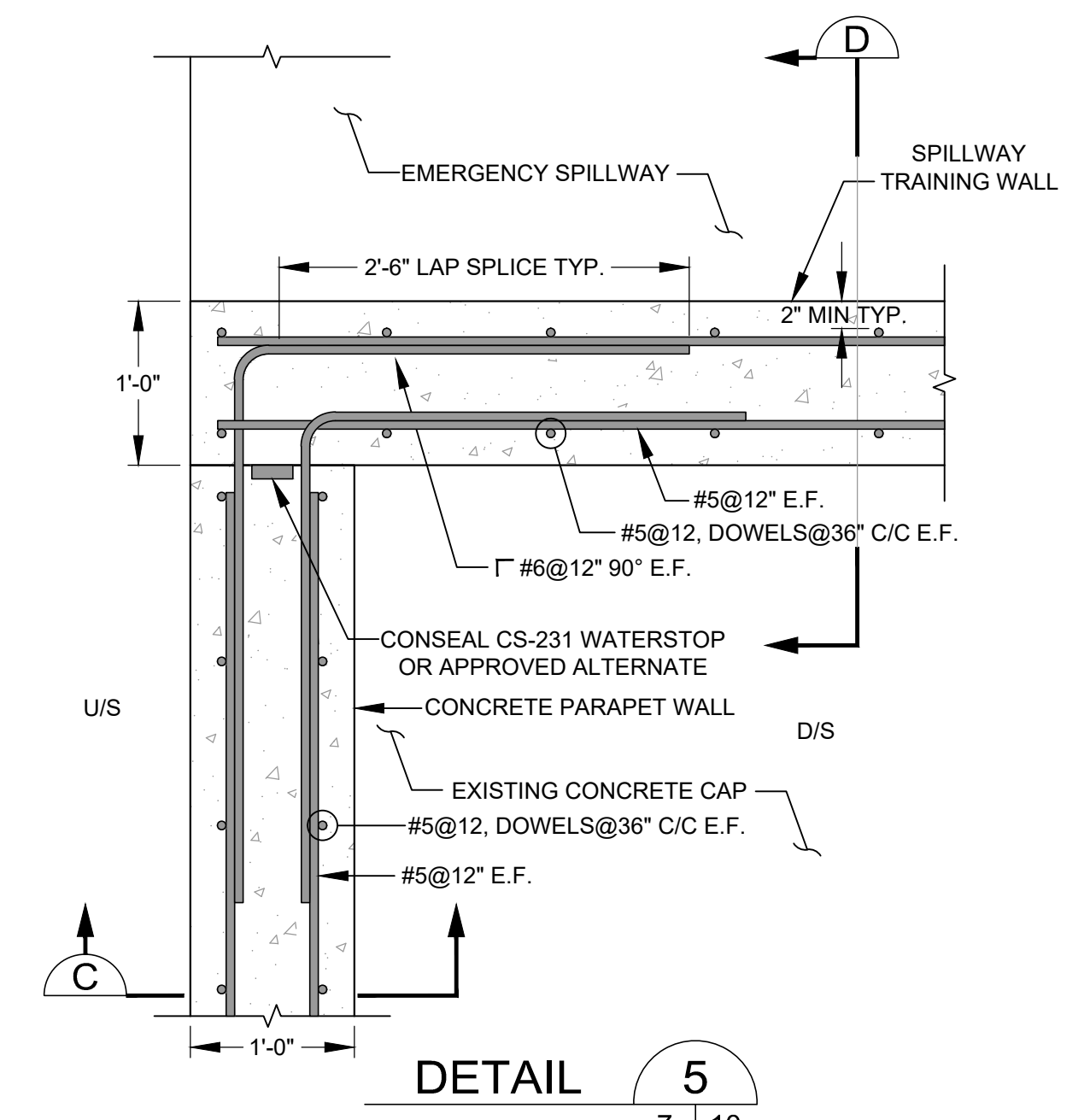
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SHEET 9 OF 11



SECTION A
7 | 10

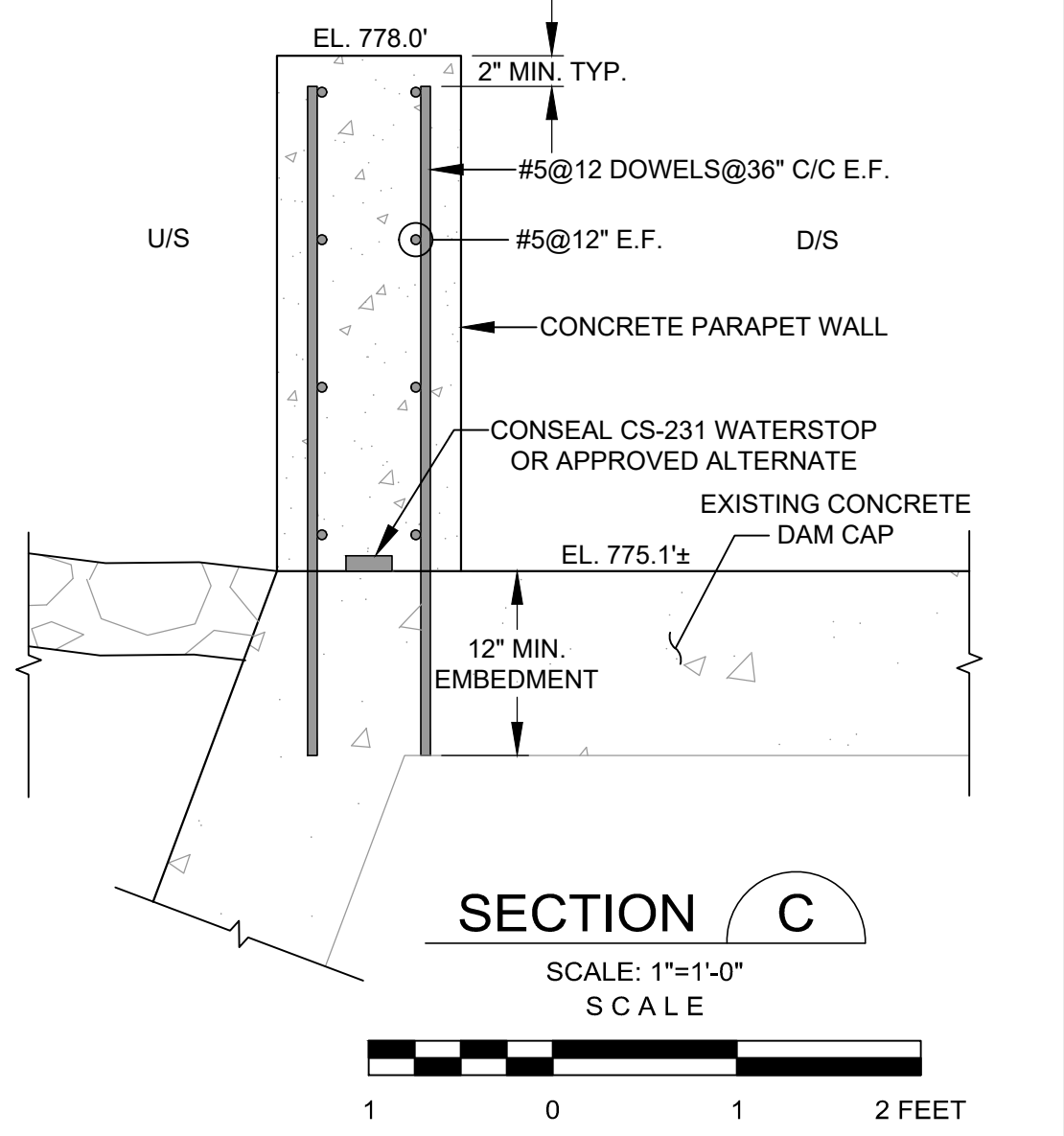
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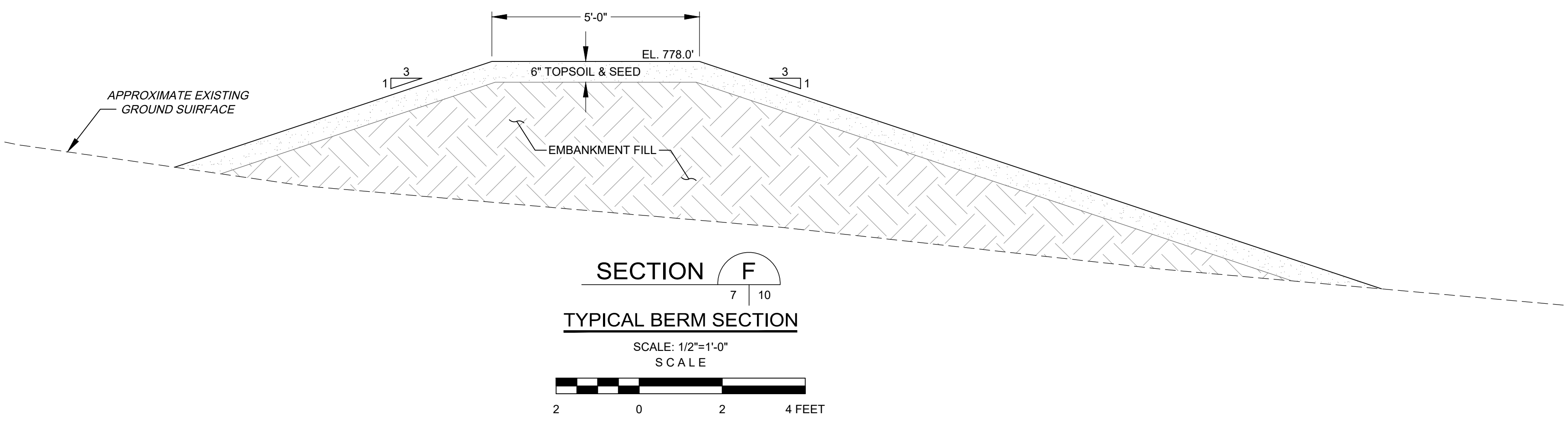
DETAIL 5
7 | 10

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SECTION C

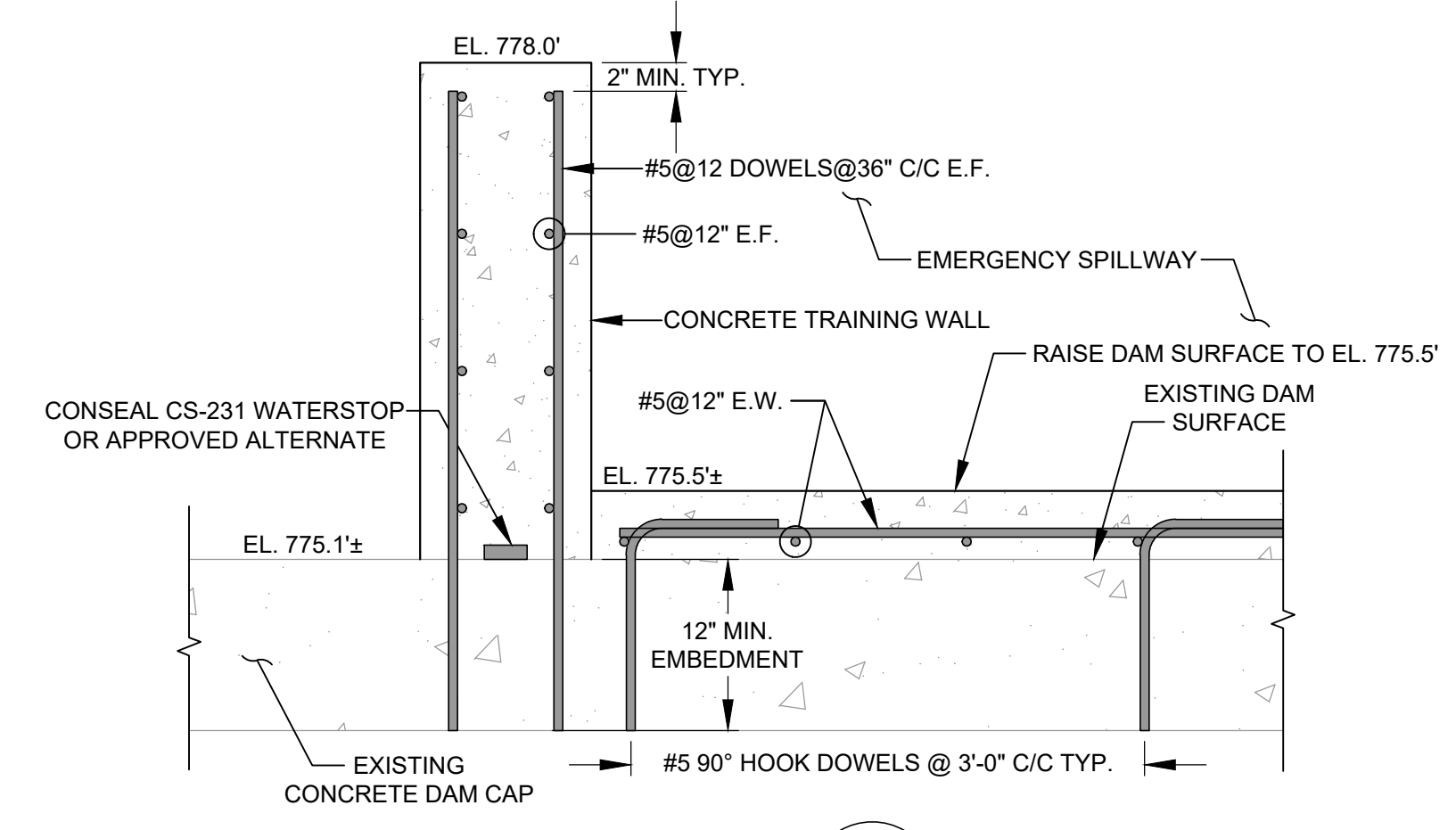
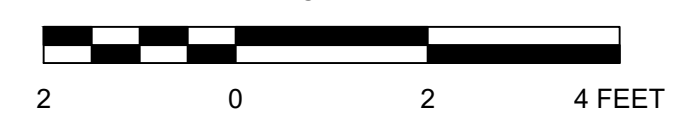
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SECTION F
7 | 10

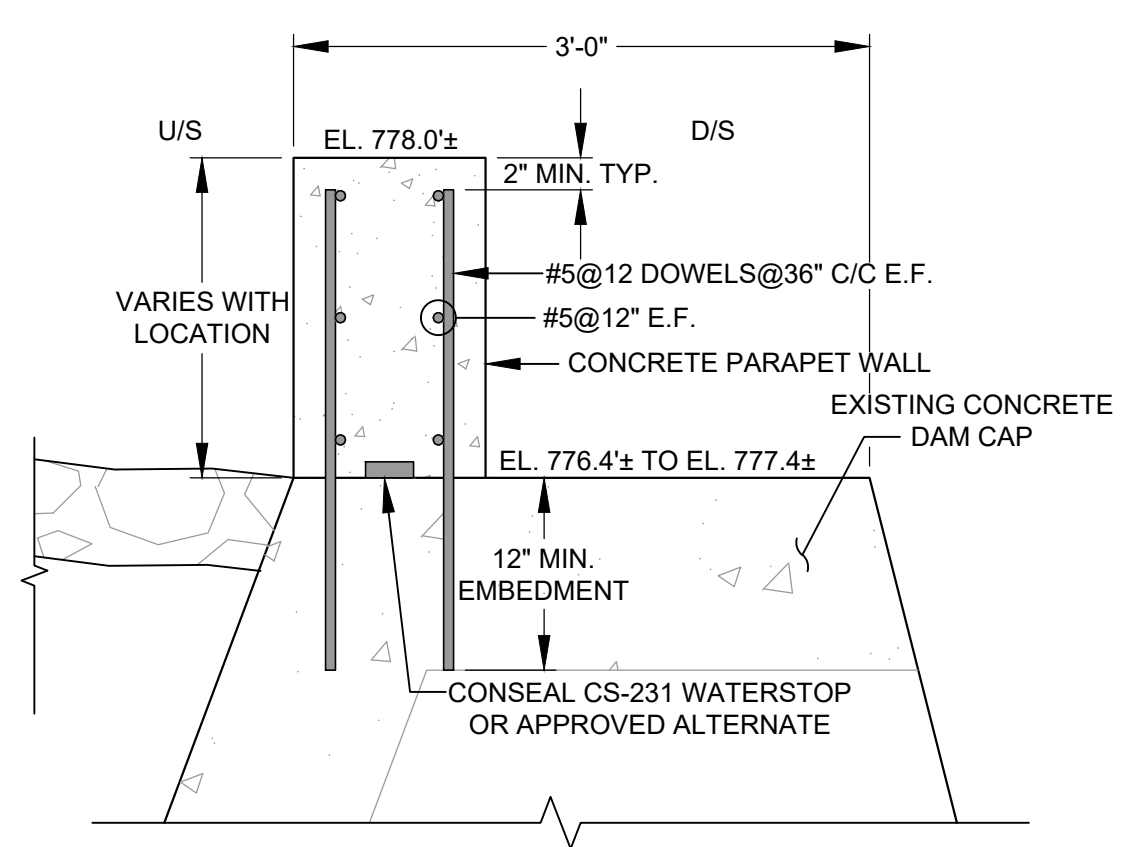
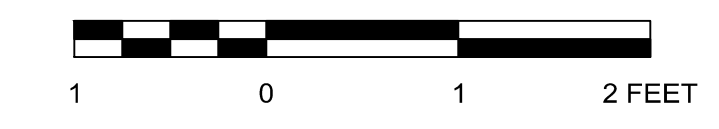
TYPICAL BERM SECTION

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SECTION D

SCALE: 1"=1'-0"
SCALE



SECTION E
8 | 10

SADDLE DIKE

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DAM & DIKE SECTIONS AND DETAILS (1 OF 2)

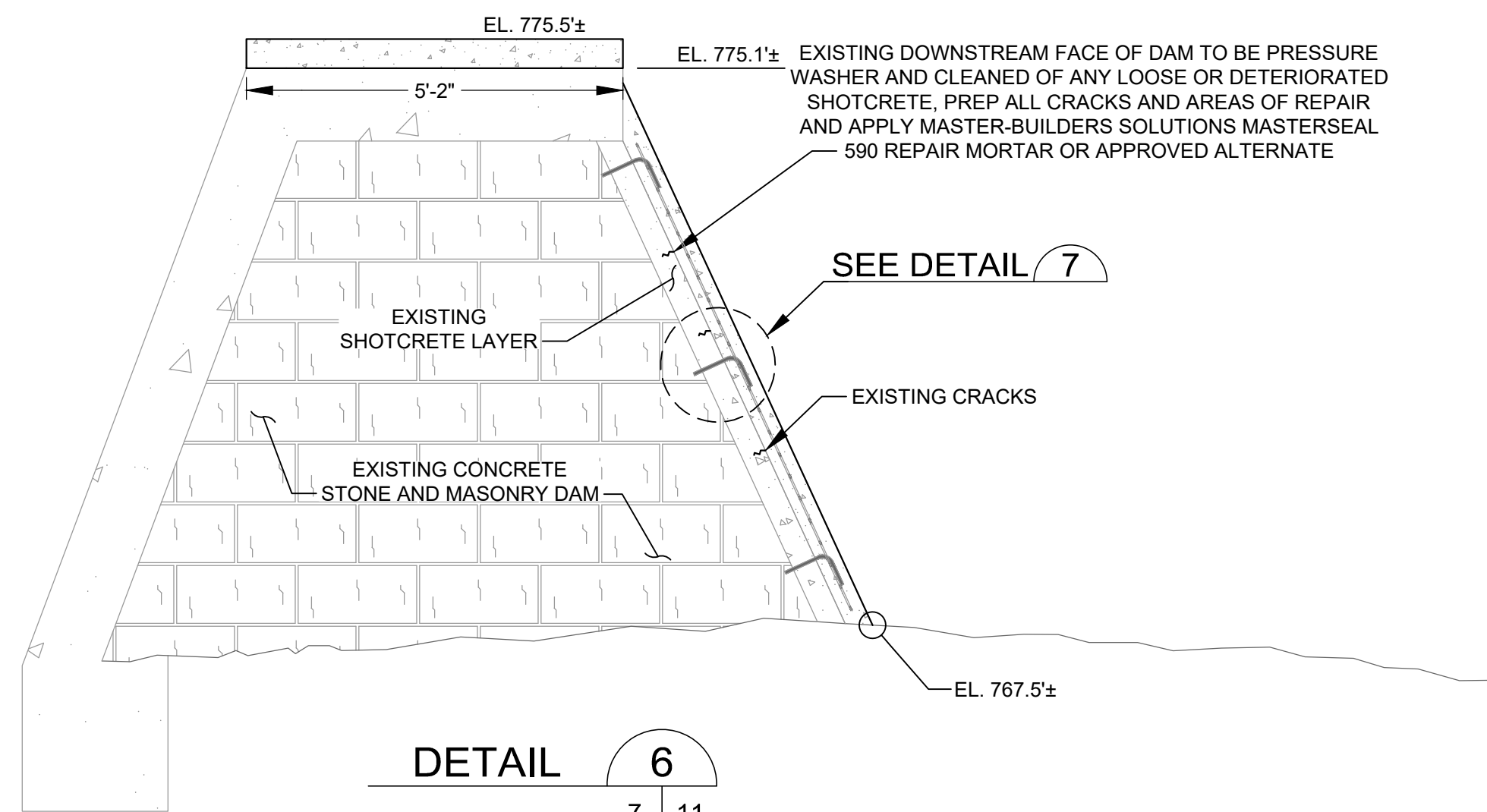
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DWG-10
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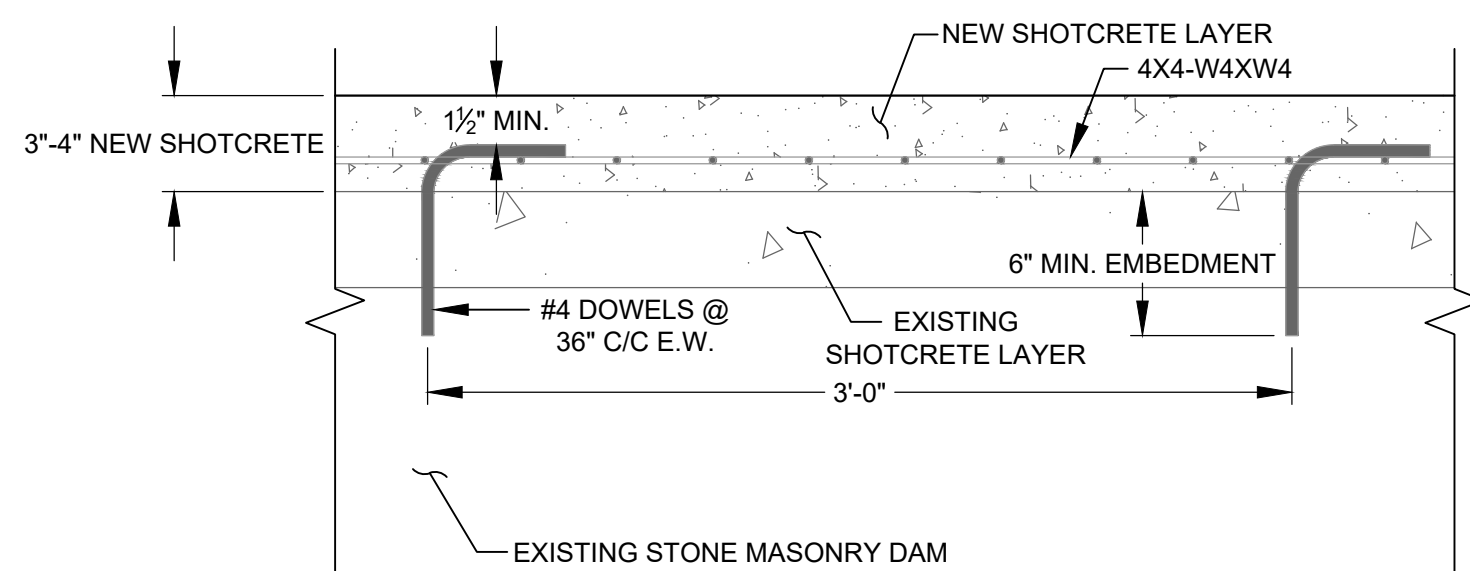
DETAIL 6

7 | 11

SHOTCRETE DETAIL

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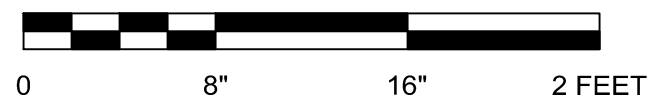
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DETAIL 7

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ROARING BROOK LAKE DAM REHABILITATION PROJECT
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DAM & DIKE SECTIONS AND DETAILS (2 OF 2)

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SHEET 11 OF 11