8

DITCH

DWG. NO.

TOWN OF AMHERST

ERIE COUNTY



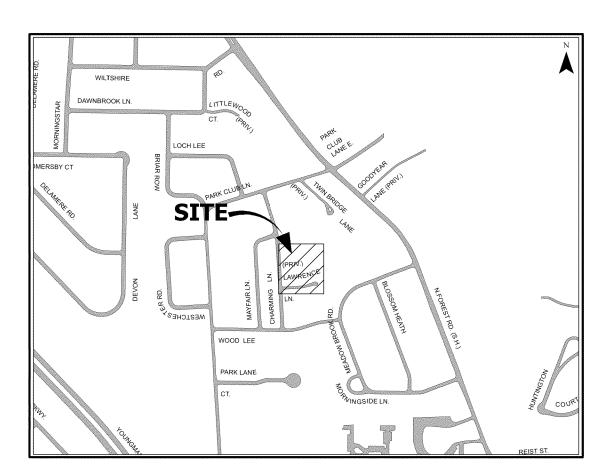
NEW YORK

DITCH 9A SOUTH WEIR REPLACEMENT

JOB # 99-90A

Town Supervisor Barry A. Weinstein

Town Councilmembers Richard "Jay" Anderson Mark A. Manna Guy R. Marlette, Deputy Supervisor Barbara S. Nuchereno Steven D. Sanders



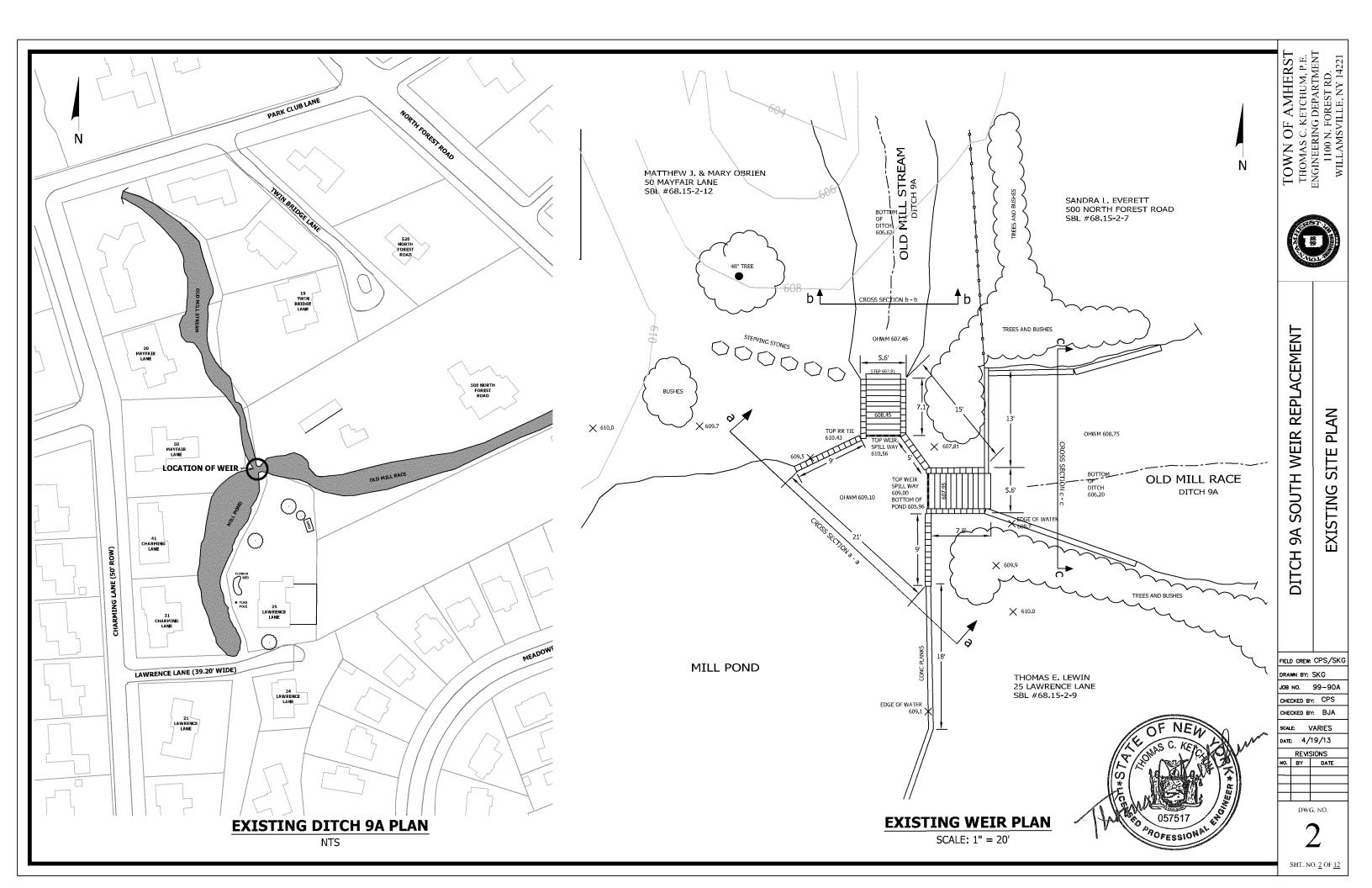
Town Attorney E. Thomas Jones

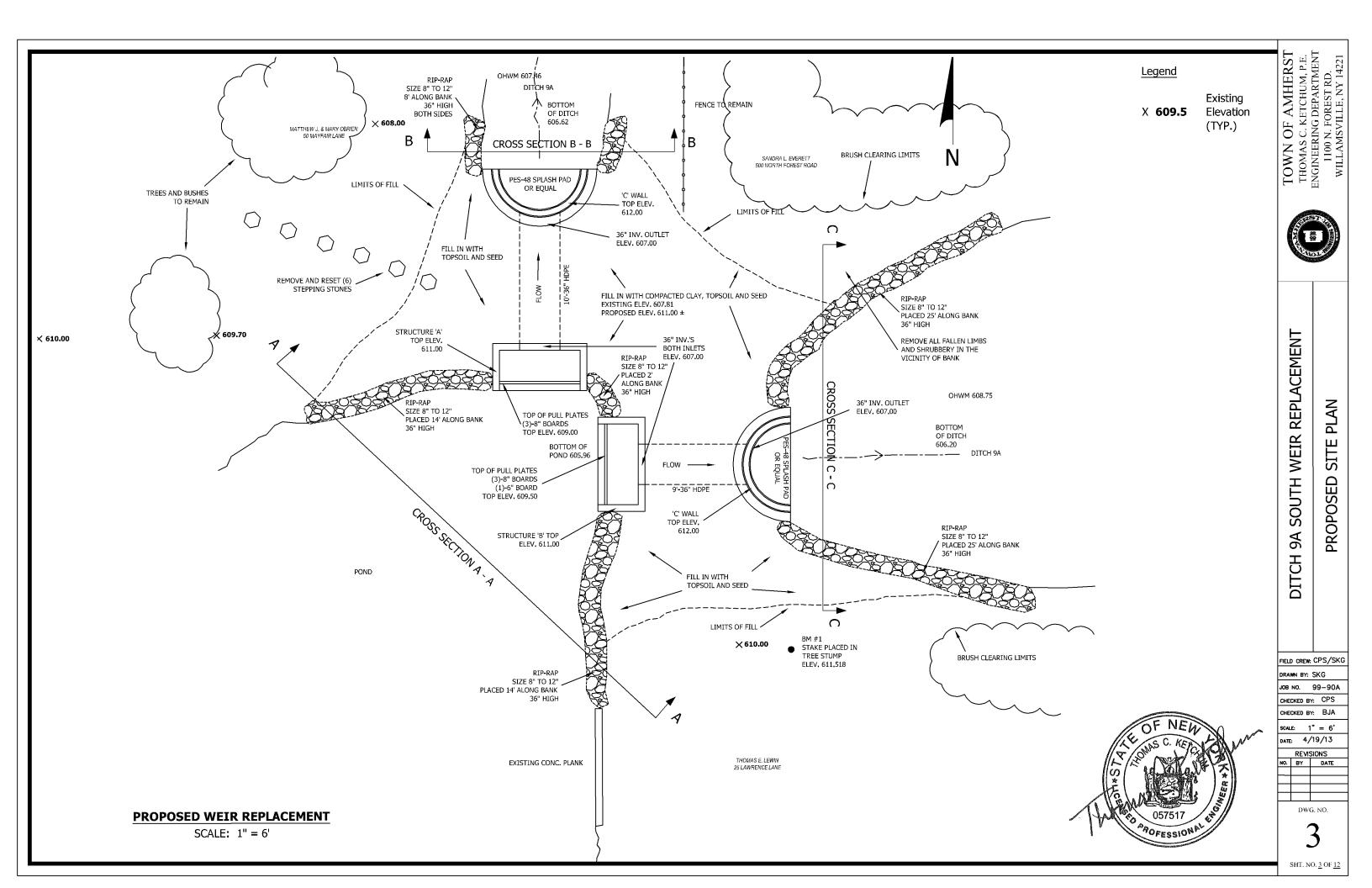
Interim Town Engineer Thomas C. Ketchum, P.E.

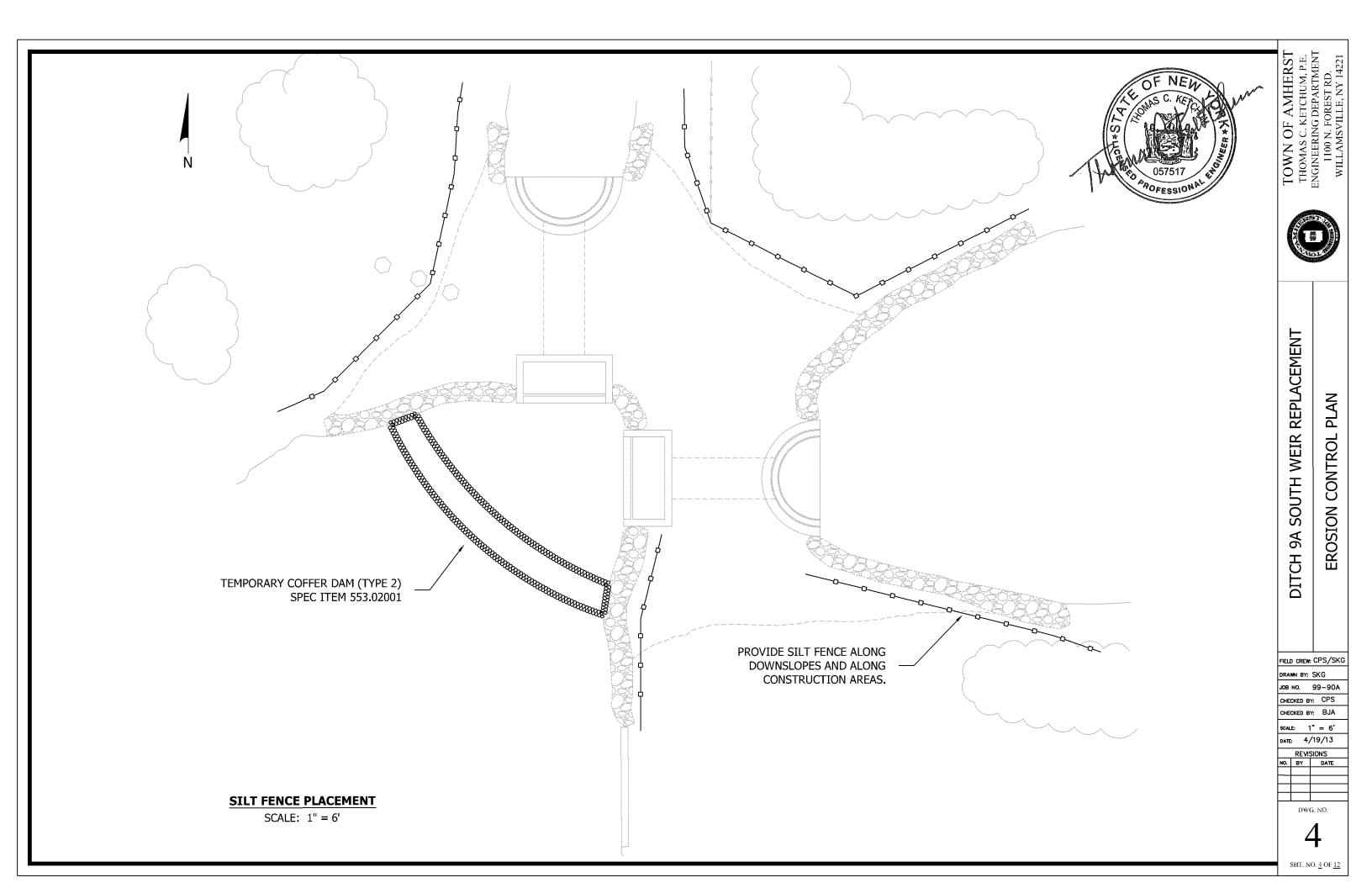
> Supt. of Highways Robert Anderson



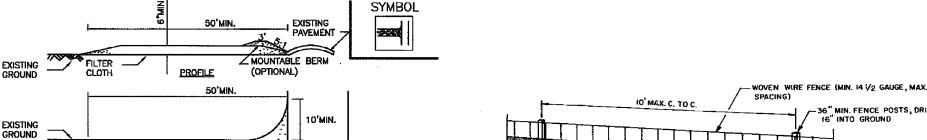
APRIL 2013







DWG, NO



CONSTRUCTION SPECIFICATIONS

12 MIN

EXISTING

10'MIN.

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

PLAN VIEW

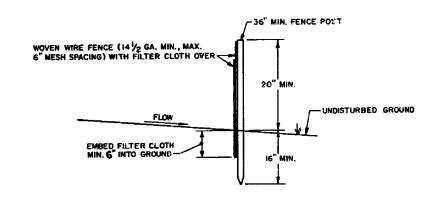
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE
- FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

12'MIN

- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-STRUCTION ENTRANCES SHALL BE PIPED ACROSS 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 A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH

STABILIZED CONSTRUCTION ENTRANCE

WOVEN WIRE FENCE (MIN. 14 V2 GAUGE, MAX. 6" MESH 36" MIN FENCE POSTS, DRIVEN MIN PERSPECTIVE VIEW



SILT FENCE DETAIL N.T.S.

CONSTRUCTION SEQUENCING SCHEDULE

- 1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
- FLAG WETLANDS AND/OR OTHER SENSITIVE AREAS FOR PROTECTION. FLAG CLEARING LIMITS IN ACCORDANCE WITH EROSION CONTROL PLAN. THE AREA TO BE CLEARED IS DELINEATED ON
- INSTALL THE STABILIZED CONSTRUCTION ENTRANCE OFF LAWRENCE LANE.
- 4. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES (SILT FENCE AND STONE CHECK DAMS) AS DESIGNED ON PLANS.
- 5. PERFORM INITIAL SITE INSPECTION OF ALL INSTALLED EROSION AND SEDIMENT CONTROL
- CLEAR AND STRIP AREA TO BE FILLED.
- 7. PLACE FILL WHERE SHOWN ON PLANS.
- STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE.
- 9. ONCE ALL DISTURBED AREAS ARE VEGETATED, ALL TEMPORARY SEDIMENT CONTROL MEASURES CAN BE REMOVED. SITE CONTRACTOR MUST HAVE THE ENTIRE SITE STABILIZED PRIOR TO WITHDRAWING FROM SITE.

FABRICATED SILT FENCE NOTES

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE

SOIL EROSION AND SEDIMENT NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL GENERAL NOTES FOR THE UNITED STATES ARMY CORPS OF ENGINEERS, SECTION 404 NATIONWIDE PERMITS.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL GENERAL NOTES FOR THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, SECTION 401 WATER QUALITY CERTIFICATION.
- ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED, AS REQUIRED AND A.O.B.E., BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 4. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL DEVICES.
- 5. STORM WATER FROM DISTURBED AREAS MUST BE PASSED THROUGH A SEDIMENT TRAP OR SILT FENCE BEFORE DISCHARGE BEYOND DISTURBED AREAS OR INTO INLETS OF OTHER DRAINAGE SYSTEMS.
- 6. NO MATERIAL SHALL BE ALLOWED TO BE DROPPED INTO THE STREAM CHANNEL. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
- 7. ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY
- 8. IN THE EVENT OF DE-WATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM.
- 9. THE LOCATIONS AND TYPES OF EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED IN THE CONTRACT DOCUMENTS MAY REQUIRE FIELD ADJUSTMENT DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS, AND/OR ACTUAL FIELD CONDITIONS.
- 10. ALL IN-STREAM WORK SHALL BE CONDUCTED DURING PERIODS OF LOW FLOW.
- 11. THE CONTRACTOR SHALL NOT USE THE STREAM BED OR BANKS AS A STAGING AREA FOR EQUIPMENT OR MATERIALS. AFTER EACH WORK DAY, ALL MECHANIZED EQUIPMENT SHALL BE REMOVED FROM THE BED AND BANKS OF THE CREEK AND STORED IN AN APPROVED UPLAND SITE.
- 12. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER IN CHARGE A WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENT CONTROL AS REQUIRED BE SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.

POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL. PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED FIELD CREW: CPS/SKG JOB NO. 99-90A

H

NO. BY DATE

SHT. NO. 5 OF 12

SOUTH WEIR

9

DITCH

JOB NO. 99-90A CHECKED BY: CPS CHECKED BY: BJA

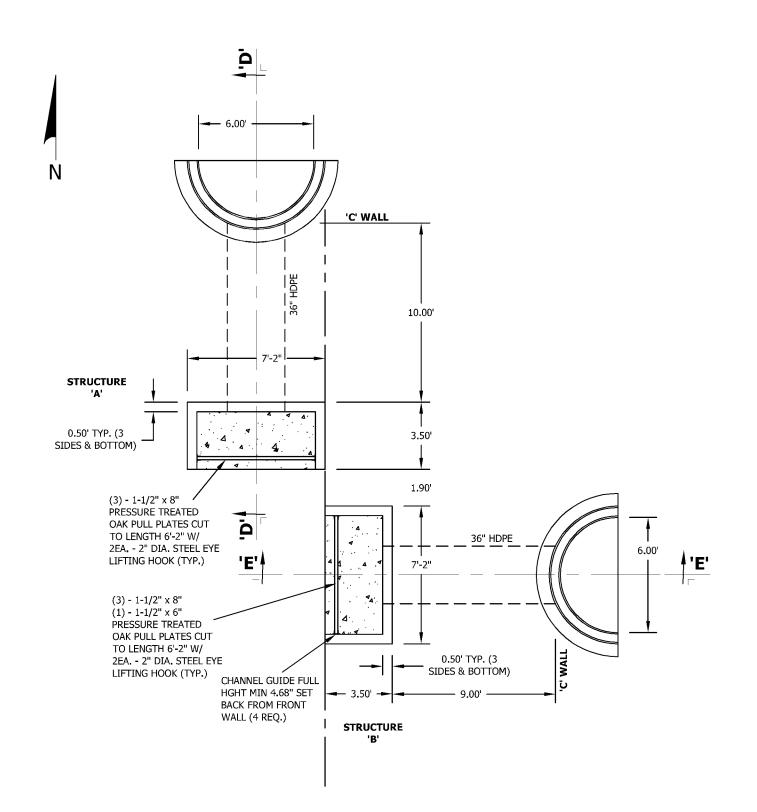
SCALE: 1" = 5'

DATE: 4/19/13 REVISIONS

NO. BY DATE

DWG. NO.

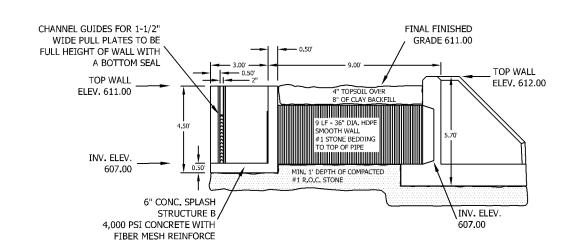
SHT. NO. $\underline{6}$ OF $\underline{12}$



CHANNEL GUIDES FOR 1-1/2" FINAL FINISHED WIDE PULL PLATES TO BE GRADE 611.00 FULL HEIGHT OF WALL WITH A BOTTOM SEAL TOP WALL TOP WALL ELEV. 612.00 ELEV. 611.00 10 LF - 36" DIA. HDPE SMOOTH WALL #1 STONE BEDDING TO TOP OF PIPE INV. ELEV. 607.00 MIN. 1' DEPTH OF COMPACTED #1 R.O.C. STONE 6" CONC, SPLASH STRUCTURE A \ INV. ELEV. 607.00 4,000 PSI CONCRETE WITH FIBER MESH REINFORCE

SECTION D - D

SCALE: 1" = 5'

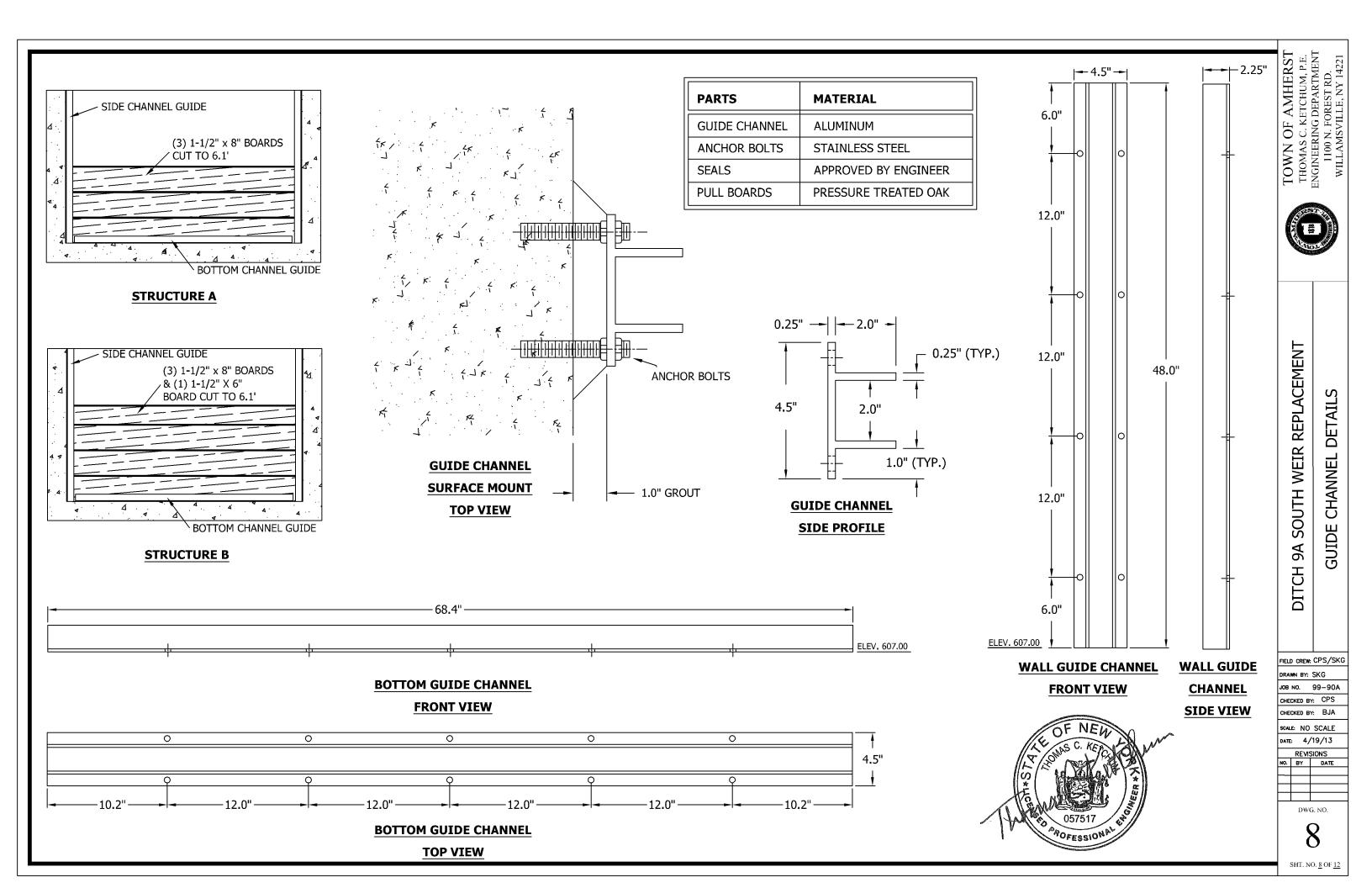


SECTION E - E

SCALE: 1" = 5'

DETAIL OF PROPOSED WEIR

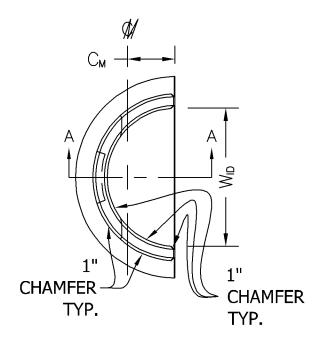
SCALE: 1'' = 5'



REVISIONS NO. BY DATE

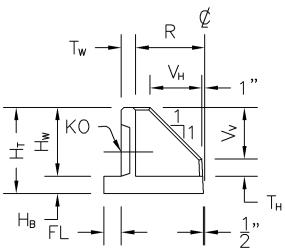
DWG, NO.





PLAN

CONTRACTOR TO BREAK OUT KNOCKOUT AS REQUIRED, INSTALL PIPE AND GROUT IN PLACE



SECTION A-A

SPECIFICATIONS:

CONCRETE: 4,000 P.S.I. @ 28 DAYS.

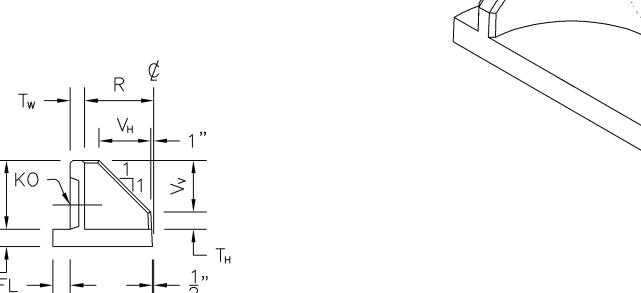
ENTRAINED AIR: 5% - 9%.

A.S.T.M. A496-A615 GRADE 60-60 KSI. STEEL:

A.A.S.H.T.O. HS-20-44 WITH 30% IMPACT AND EQUIVALENT

SOIL PRESSURE EQUIVALENT SOIL PRESSURE OF 130 (PCF). FLOTATION FORCES NOT ACCOUNTED FOR.

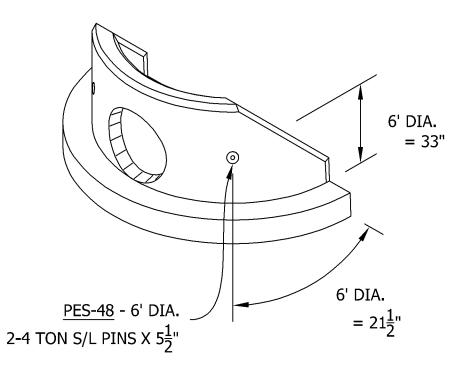
CODE	WiD	MAX PIPE OD	ко	R	Tw	Hw	Нв	H _T	Тн	Vн	Vv	FL	См	WEIGHT
PES-48	6'	48"	48"	3'	7"	60"	8"	68"	30"	30"	30"	6"		6,115.7 LBS.



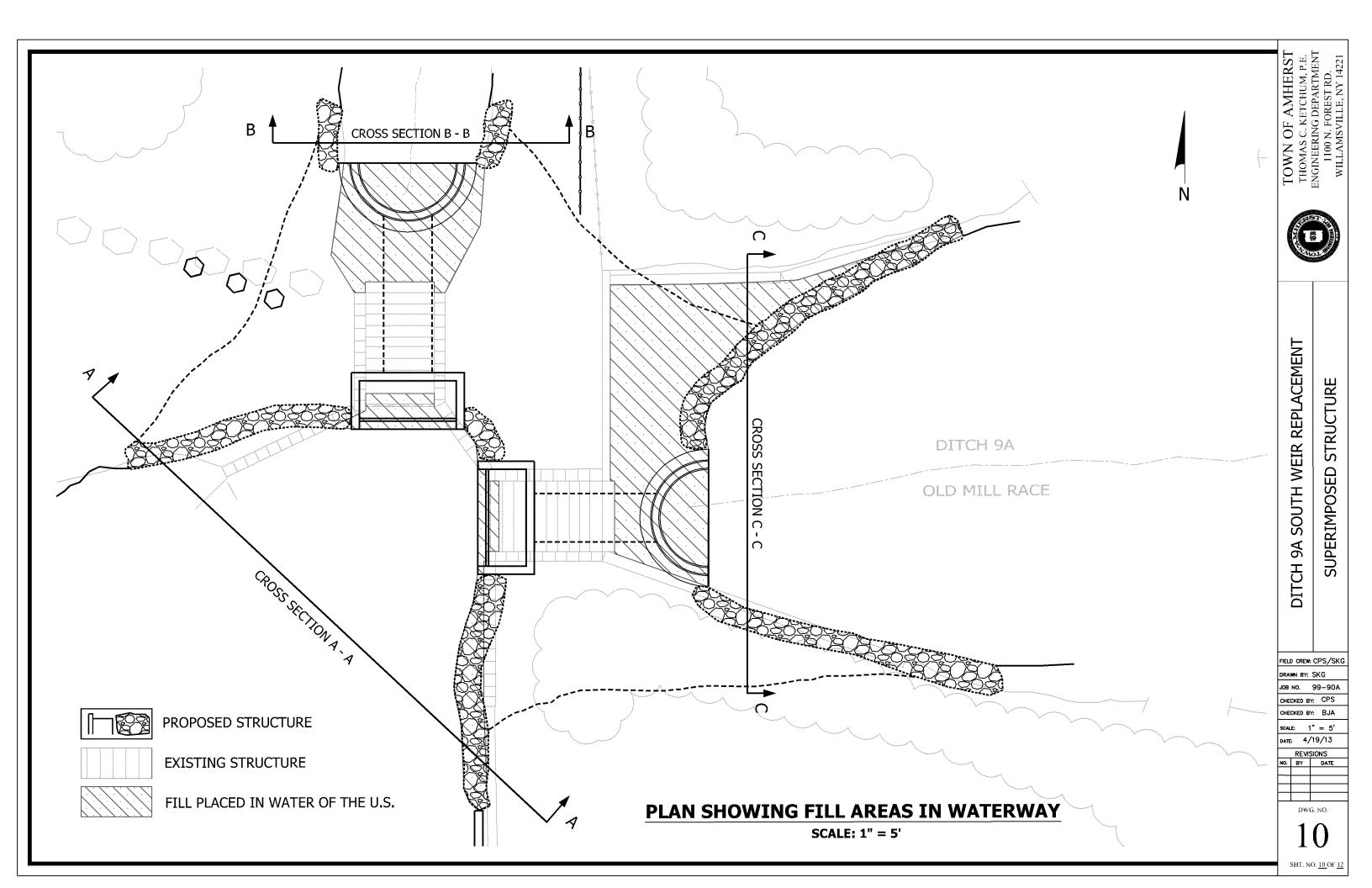
ISOMETRIC - RIGHT SIDE VIEW

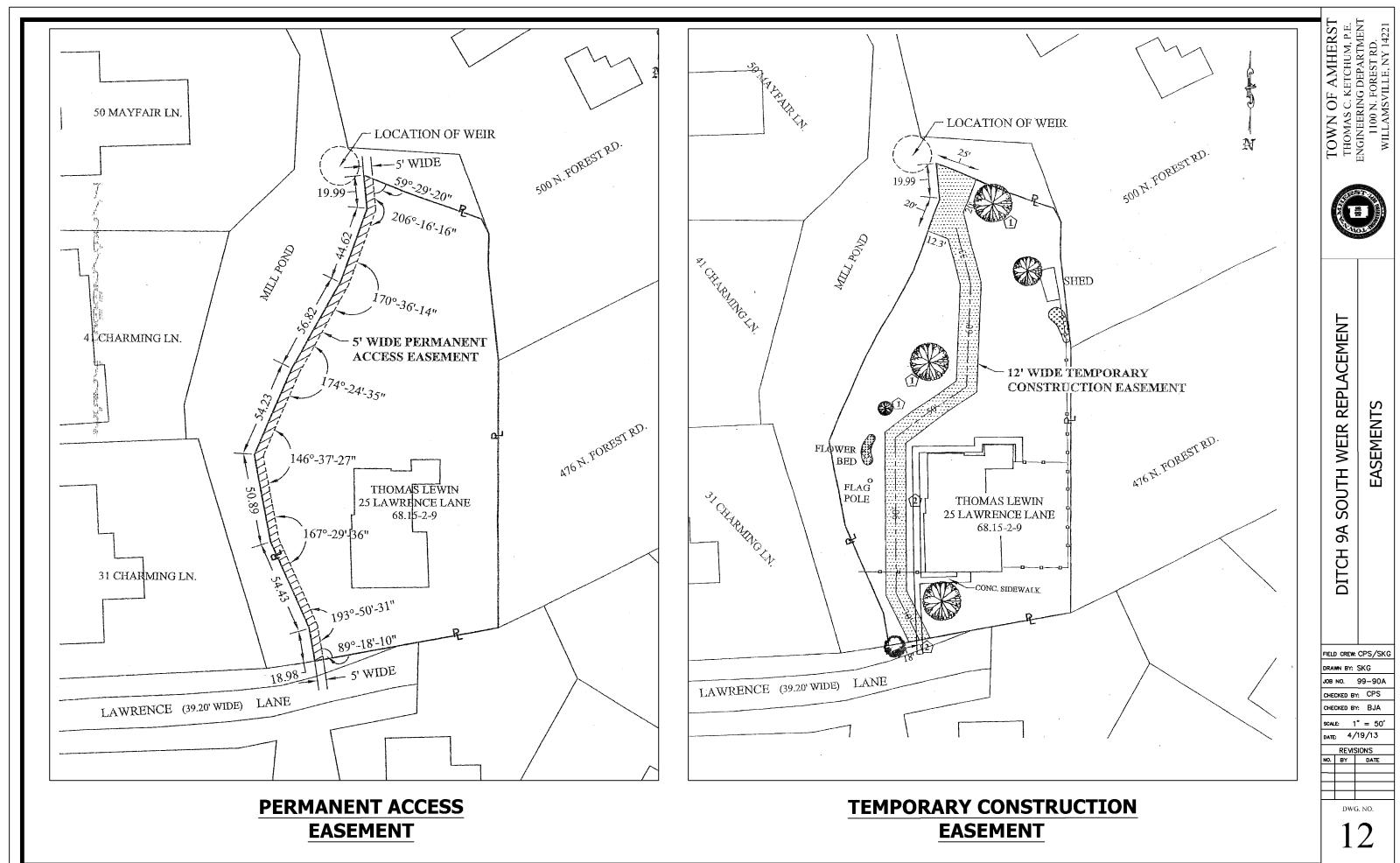
CHAMFER

TYP.

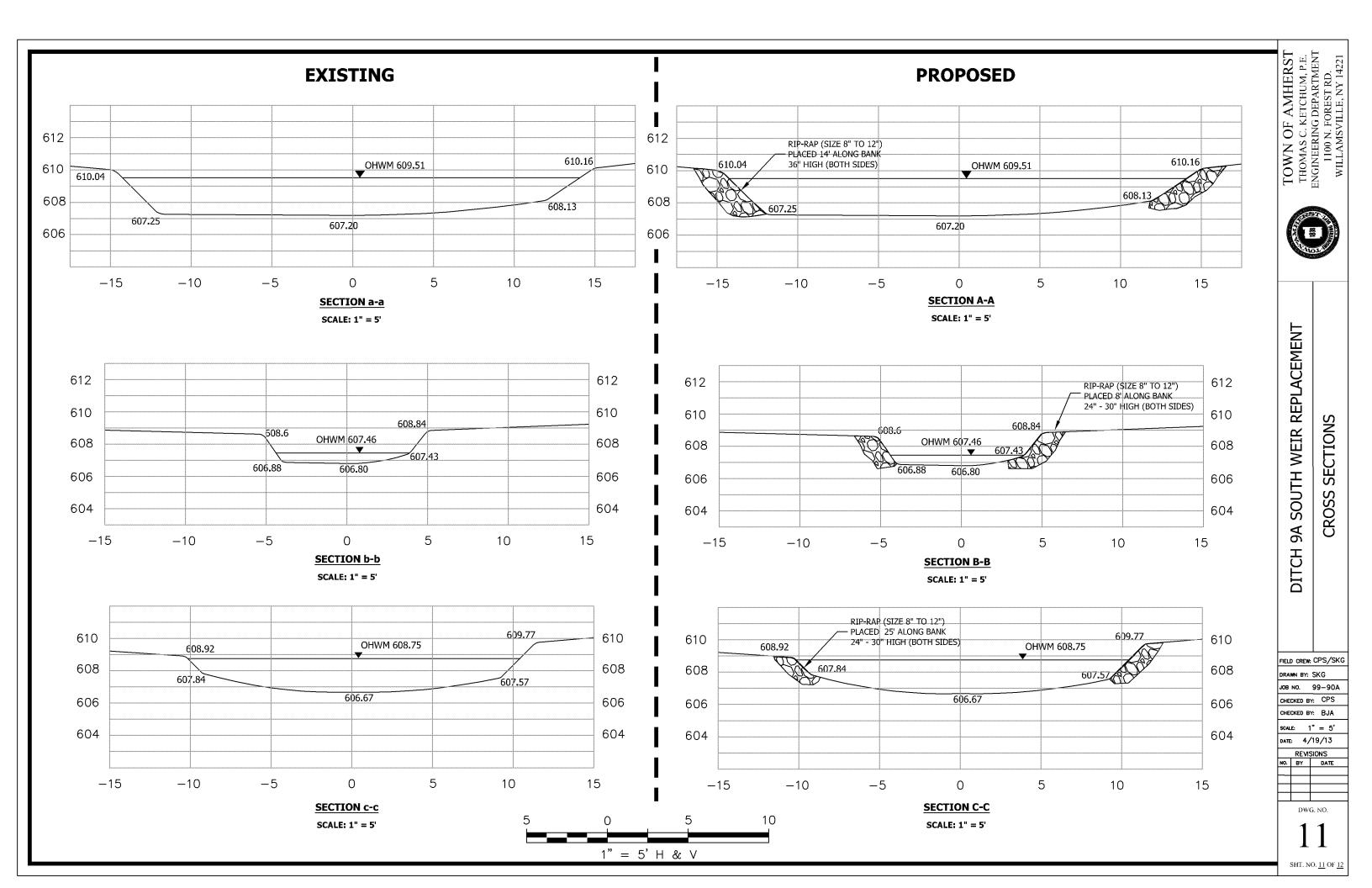


SHT. NO. <u>9</u> OF <u>12</u>





IT. NO. <u>12</u> OF <u>1</u>



SCALE: 1" = 2'



DETAILS

FIELD CREW: CPS/SKG

JOB NO. 99-90A CHECKED BY: CPS

DATE: 4/19/13

REVISIONS
NO. BY DATE

DWG. NO.

SCALE: 1" = 2'

SIIT. NO. <u>7</u> OF <u>12</u>