

# Catskill Creek Waterfront Walkway

Water Street and West Main Street

Village of Catskill

Greene County, New York

Project Funding:

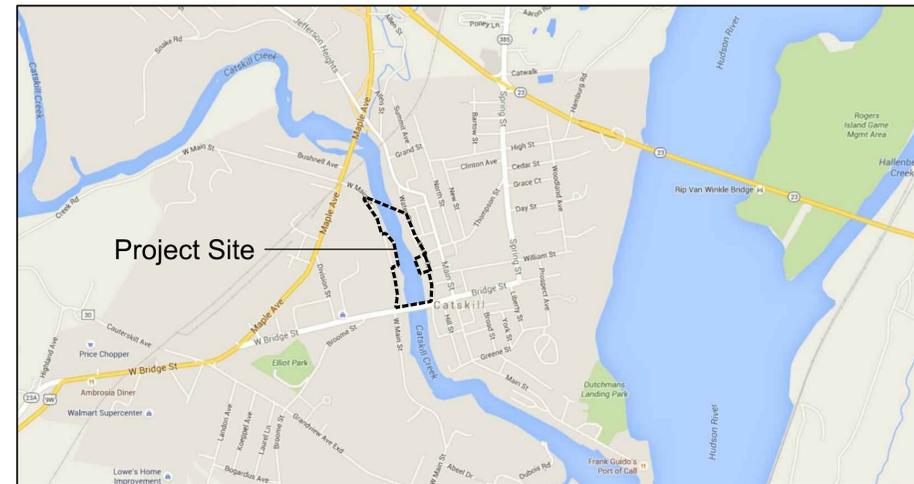


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Department of State Contract No.: C1000220

Elan Planning, Design & Landscape Architecture, PLLC  
Project Number: 14-001.1

PROJECT LOCATION MAP:



SUBMISSION TITLE:

BID DOCUMENTS

DATE:

11.11.2016

DOCUMENT SET NO.

PROJECT SPONSORS:

Village of Catskill, New York

Greene County, New York

Consultant Team:



18 DIVISION STREET, STUDIO 304  
SARATOGA SPRINGS, NY 12866

Lead Consultant



18 DIVISION STREET, STUDIO 304  
SARATOGA SPRINGS,  
NY 12866

Certified NYS WBE



THESE PLANS SHOW KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN AT ALL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. THE CONTRACTOR SHALL CONTACT U.F.P.O. AT 1-800-962-7962 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO CONDUCT EXPLORATORY TESTS PITS AS MAY BE REQUIRED TO DETERMINE UNDERGROUND CONDITIONS, THE COST OF WHICH SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THIS CONTRACT. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

Professional Stamps

JERE TATICH, RLA  
ELAN PLANNING DESIGN &  
LANDSCAPE  
ARCHITECTURE

**DRAWING SHEET INDEX:**

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NOTE: DRAWINGS SV-1 THROUGH SV-13 WERE PREPARED BY KAATERSKILL ASSOCIATES.

**PROPOSED LEGEND:**

	CONTRACT LIMIT LINE
	SILT FENCE
	DRAIN INLET PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE
	SAWCUT
	LINEAR REMOVAL
	ASPHALT PAVEMENT REMOVAL
	CONCRETE PAVEMENT REMOVAL
	REMOVE SITE ELEMENT
	ASPHALT PAVEMENT - VEHICULAR
	CONCRETE CURB
	ASPHALT PAVEMENT WALK - PEDESTRIAN
	CONCRETE SIDEWALK
	PERMEABLE PAVER WALK
	CROSSWALK WITH DETECTABLE WARNING STRIPS
	SIGNAGE / DOUBLE SIGNAGE AND SIGN ID #
	BENCH
	PICNIC TABLE
	LIGHT POLE
	TIMBER RAILING
	MAJOR CONTOUR
	MINOR CONTOUR
	SPOT ELEVATION
	CATCH BASIN
	STORM SEWER PIPE
	DRAINAGE TRENCH
	GRANITE COLUMN

**ABBREVIATIONS:**

AFG	ABOVE FINISHED GRADE
BC	BOTTOM OF CURB
BP	BENCH PAD
C	CONDUIT
CKT	CIRCUIT
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
FC	FLUSH CURB
GEC	GROUNDING ELECTRODE CONDUCTOR
G, GND	GROUND
HP	HIGH POINT (GRADING)
LP	LOW POINT (GRADING)
LTG	LIGHTING
ME	MATCH EXISTING
NIC	NOT IN CONTRACT
OE	OVERHEAD ELECTRIC
PBO	PROVIDED BY OTHERS
PT	PRESSURE TREATED
RECP	RECEPTACLE
TC	TOP OF CURB
TRC	TRANSITION CURB
UE	UNDERGROUND ELECTRIC
UNO	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
URD	UNDERGROUND RESIDENTIAL DISTRIBUTION
WP	WEATHERPROOF

DETAIL CALL-OUT  $\frac{\text{DETAIL NO.}}{\text{DRAWING NO.}}$

Lead Consultant:



Project Sponsors:

IT IS A VIOLATION OF THE LAW FOR ANY PERSONS, UNLESS HE IS ACTION UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER, TO ALTER THIS DRAWING IN ANYWAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE.

Project Title:

**Catskill Creek  
Waterfront Walkway**  
Village of Catskill, Greene County,  
New York

Sheet Title:

**Index of Drawings  
and  
Drawing Legend**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE
11.11.2016	

DRAWN BY:	- WDN
CHECKED BY:	- JET
FILE:	-
JOB. NO.:	- 14-001.1

DRAWING NO.:

**C-0.1**

**DEFINITIONS**

1. THE WORDS "SHALL", "SHOULD", AND "MAY", AS USED IN THE CONTRACT DOCUMENTS, HAVE THE FOLLOWING MEANINGS:

SHALL- A MANDATORY CONDITION. IN THE DESIGN, APPLICATION, OR LOCATION OF DEVICES, REQUIREMENTS HAVING "SHALL" STIPULATIONS ARE MANDATORY. NO DISCRETION IN FOLLOWING THEM IS ALLOWED.

SHOULD- AN ADVISORY CONDITION. WHERE "SHOULD" IS USED IN RELATION TO A PROVISION, THAT PROVISION IS RECOMMENDED, AND NORMALLY IS TO BE FOLLOWED, BUT IS NOT MANDATORY. DEVIATION FROM SUCH PROVISIONS IS PERMISSIBLE IF, AND TO THE EXTENT THERE IS JUSTIFIABLE CAUSE TO DO SO.

MAY- A PERMISSIVE CONDITION. NO REQUIREMENTS FOR DESIGN OR APPLICATION IS INTENDED.

**SURVEY NOTE:**

1. THE SITE SURVEY AND EXISTING CONDITIONS DEPICTED HEREIN ARE BASED UPON THE SURVEY DRAWINGS ENTITLED "DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS," PREPARED BY KAATERSKILL ASSOCIATES, DATED APRIL 23, 2014, REVISED OCTOBER 31, 2016. REFER TO THESE DRAWINGS FOR ALL EXISTING CONDITIONS INFORMATION AND SURVEY REFERENCES.

**WORK BY OTHERS:**

- 1. THE CONTRACTOR SHALL BE AWARE OF WORK ADJACENT TO (OR WITHIN THE LIMITS OF) THE PROJECT SITE THAT IS TO BE PERFORMED BY OTHERS. THE "REHABILITATION OF BLACK BRIDGE OVER THE CATSKILL CREEK IN THE VILLAGE OF CATSKILL, GREENE COUNTY, PIN 1759.71, BID DATE 7/26/2016" PROJECT MAY BE ONGOING AT THE TIME OF CONSTRUCTION, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS OR HER WORK WITH THAT PROJECT. THE CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION BETWEEN EACH PROJECT IS PROVIDED PRIOR TO COMPLETION OF THE WORK.
- 2. WORK INDICATED ON THE PLANS TO BE PERFORMED BY OTHERS (VILLAGE OF CATSKILL, PROPERTY OWNERS, ETC.) ARE NOT IN CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WORK TO BE PERFORMED BY OTHERS WITH THE WORK THAT IS INCLUDED IN THIS CONTRACT.

**RESTORING DISTURBED AREAS:**

- 1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE.
- 2. THE RESTORATION OF DISTURBED AREAS SHALL BE ACCOMPLISHED AS SPECIFIED PER THE CONTRACT DOCUMENTS.

**UTILITIES:**

- 1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE IN COORDINATION WITH THE OWNER OF THE UTILITY AFFECTED, AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED FOR WORK COMPLETED UNDER THIS CONTRACT. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE TIMBER, PLANK OR OTHER MEANS TO SECURELY BRACE AND PROTECT THESE UTILITIES.
- 3. DURING NECESSARY UTILITY RELOCATION WORK, THE CONTRACTOR SHALL COOPERATE IN EVERY WAY WITH THE UTILITY OWNER, AND SHALL SCHEDULE WORK IN SUCH A WAY TO COMPLY WITH SHUT DOWN TIMES AND ANY OTHER REQUIREMENTS OF THE UTILITY OWNER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY COST INCURRED DUE TO COMPLYING WITH UTILITY OWNERS REQUIREMENTS. SUCH COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEMS IN THE CONTRACT.
- 4. THE EXISTING UTILITY INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL C INFORMATION.

**ENVIRONMENTAL:**

- 1. SPILLAGE OF OIL AND HAZARDOUS SUBSTANCES IS PROHIBITED BY SECTION 311 OF THE CLEAN WATER ACT OF 1977. MEASURES INCLUDING PROPER MAINTENANCE OF CONSTRUCTION EQUIPMENT, DESIGNATING FUEL/HAZARDOUS SUBSTANCES, HANDLING AREAS TO ALLOW SPILLS TO BE CONTAINED BEFORE REACHING THE WATERWAY, INSTRUCTING PERSONNEL NOT TO DISPOSE OF OIL AND OTHER SUCH MATERIALS INTO DRAINS OR INTO THE WATERWAY DIRECTLY, AND OTHER NECESSARY PROCEDURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION ACTIVITIES. IF, IN SPITE OF SUCH PLANNING, OIL/HAZARDOUS SUBSTANCES ARE SPILLED INTO A WATERCOURSE, IMMEDIATE NOTIFICATION SHALL BE GIVEN TO THE N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION AT (518) 457-7362 AND THE NATIONAL RESPONSE CENTER AT 1 (800) 424-8802. A CONTAINMENT BOOM AND A SUPPLY OF HAY, STRAW, OR OTHER ABSORBENT SHOULD BE RETAINED SO THAT IT MAY BE RAPIDLY DEPLOYED TO SOAK UP ANY POSSIBLE SPILLAGE. PENDING ENVIRONMENTAL CONSERVATION AND/OR COAST GUARD ARRIVAL ON THE SCENE, THE USE OF CHEMICAL DISPERSING AGENTS AND EMULSIFIERS IS NOT AUTHORIZED WITHOUT PRIOR, SPECIFIC, FEDERAL, OR STATE APPROVAL.
- 2. ANY DELETERIOUS MATERIAL ENTERING WATERWAYS, FOR ANY REASON WHATSOEVER, WHICH IS NOT PART OF THE INTENDED WORK, SHALL BE REMOVED AND DISPOSED OF PROPERLY.

**GENERAL NOTES:**

- 1. FOR MATERIAL AND CONSTRUCTION SPECIFICATIONS UTILIZE THE: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED SEPTEMBER 1, 2016 INCLUDING CURRENT ADDENDUMS UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD PROJECT RELATED EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL TO THE ENGINEER.
- 3. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGES TO EXISTING FACILITIES CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITIES WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE ENGINEER.
- 4. THE CONTRACTOR SHALL EXERCISE CARE IN HIS REMOVAL OPERATIONS SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIAL WHICH IS TO REMAIN IN PLACE, OR WHICH IS TO REMAIN THE PROPERTY OF THE COUNTY, TOWN, VILLAGE, OR STATE, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, TOWN, VILLAGE, OR STATE, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- 5. CONSTRUCTION ACCESS ROUTES SHALL BE COORDINATED WITH THE RESIDENT PROJECT REPRESENTATIVE.
- 6. THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THESE SPECIFIC SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- 7. CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- 8. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS. ALL DISPOSAL AREAS MUST BE APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE PRIOR TO USE.
- 9. THE CONTRACTOR IS ADVISED TO VISIT THE SITE BEFORE BIDDING, TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO JUDGE FOR THEMSELVES THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF THEIR FAILURE TO INCLUDE IN THE BID ALL ITEMS AND MATERIALS WHICH IS REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING AND MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.

- 12. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 13. ALL WORK SHALL BE CARRIED OUT IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE CONSTRUCTION WITH ADJACENT PROPERTY OWNERS AND TO PROVIDE SAFE MEANS FOR INGRESS AND EGRESS FROM ALL FACILITIES DURING CONSTRUCTION.
- 15. THE CONTRACTOR SHALL COORDINATE ALL WORK ADJACENT TO OR AFFECTING PRIVATELY OWNED PROPERTY WITH THAT PROPERTY OWNER (CATSKILL CENTRAL SCHOOL DISTRICT, ETC.).
- 16. THE CONTRACTOR SHALL COORDINATE ALL WORK AFFECTING OR IN CLOSE PROXIMITY OF PUBLIC OR PRIVATELY OWNED UTILITIES WITH THAT UTILITY OWNER (VILLAGE OF CATSKILL, CENTRAL HUDSON, ETC.).
- 17. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND SECURITY THROUGHOUT CONSTRUCTION.

**DRAWING NOTES REFERENCE ALL SITE DRAWINGS:**

- 1. PROPOSED IMPROVEMENTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY STAKE OUT AND CONSTRUCTION OF PROPOSED IMPROVEMENTS. EXCESS EXCAVATED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OFF SITE IN A LAWFUL MANNER.

**DEMOLITION NOTES:**

- 1. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES, BUILDINGS, PAVEMENTS, AND OTHER SITE FEATURES TO REMAIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UTILITY LOCATIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. CONTRACTOR SHALL CONTACT U.F.P.O. FOR LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE COMMENCING OF CONSTRUCTION. IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPAIRED TO THE STANDARD OF THE AUTHORITY HAVING JURISDICTION, AT THE CONTRACTOR'S EXPENSE.
- 2. PRIOR TO START OF WORK, COORDINATE WITH THE RESIDENT PROJECT REPRESENTATIVE REGARDING CONSTRUCTION VEHICLE ACCESS/ EGRESS ROUTES, STOCKPILE AND STAGING AREA.
- 3. THE CONTRACTOR SHALL EXERCISE CARE DURING REMOVAL OPERATIONS TO PROTECT EXISTING FACILITIES TO REMAIN, INCLUDING PAVEMENTS, CURBS, FENCES, TREES, UNDERGROUND UTILITIES, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE DAMAGES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR SHALL REMOVE ALL EXISTING ITEMS AS INDICATED OR TO THE EXTENT AND DEPTH REQUIRED TO PROPERLY INSTALL THE PROPOSED WORK. DISPOSE MATERIALS OFF-SITE UNLESS OTHERWISE NOTED.
- 5. PROVIDE SMOOTH TRANSITIONS BETWEEN NEW & EXISTING CONDITIONS.
- 6. THE TERM "PAVEMENT SYSTEM" INCLUDES PAVEMENT MATERIAL COURSES AND THE AGGREGATE SUBBASE.

**LAYOUT NOTES:**

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL WORK HORIZONTALLY AND VERTICALLY IN THE FIELD. THE CONTRACTOR SHALL THEN NOTIFY THE PROJECT ENGINEER/RESIDENT PROJECT REPRESENTATIVE WHO WILL REVIEW THE STAKED OUT ITEMS AND ASSIST WITH THE FINAL LAYOUT OF THE WORK. ONLY AFTER RECEIVING WRITTEN APPROVAL BY THE PROJECT ENGINEER/RESIDENT PROJECT REPRESENTATIVE MAY THE CONTRACTOR COMMENCE WITH CONSTRUCTION.
- 2. THE CONTRACTOR SHALL STAKE OUT ALL WORK IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND RESIDENT PROJECT REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS DISCOVERED.
- 3. DIMENSIONS: UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL DIMENSIONS SHOWN ON THE SITE DRAWINGS FOLLOW THESE CONVENTIONS:
  - A. DIMENSIONS TO A BUILDING AND RETAINING WALLS ARE TO THE EXTERIOR FACE OF THE WALL.
  - B. DIMENSIONS TO A CURB ARE TO THE VERTICAL FACE OF THE CURB.
  - C. DIMENSIONS TO A FENCE OR RAILING ARE TO THE CENTERLINE OF THE FENCE OR RAILING.
  - D. DIMENSIONS TO A MANHOLE, INLET, CLEAN OUT, PIPE BEND, VALVE, FIRE HYDRANT OR OTHER UTILITY APPURTENANCE ARE TO THE CENTER OF THE STRUCTURE.
  - E. ALL ANGLES SHOWN ARE 90° UNLESS OTHERWISE NOTED.
  - F. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DRAWING DISCREPANCY UPON DISCOVERY AND SHALL RECEIVE CLARIFICATION BEFORE PROCEEDING WITH CONSTRUCTION.

- 5. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND RESIDENT PROJECT REPRESENTATIVE ON ANY FIELD ADJUSTMENTS OF NEW WORK.
- 6. NEW UTILITY WORK: ALL WORK ASSOCIATED WITH THE INSTALLATION OF A SPECIFIC UTILITY INCLUSIVE OF TRENCHING AND BACKFILLING, SUPPORTS, FOUNDATIONS, FINISH GRADE, MATERIAL REPAIR, ETC. IS THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE UTILITY.

**GRADING NOTES:**

- 1. THE CONTRACTORS SHALL STAKE OUT ELEVATIONS AND LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION. THE PROJECT ENGINEER WILL ASSIST WITH LAYOUT OF THE PROJECT AND SHALL REVIEW THE STAKED OUT ITEMS IN THE FIELD PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND RESIDENT PROJECT REPRESENTATIVE FOR FIELD ADJUSTMENTS OF NEW WORK.
- 3. THE CONTRACTOR SHALL STAKE OUT ALL GRADES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY THE RESIDENT PROJECT REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS.
- 4. THE CONTRACTOR SHALL CONTINUALLY MONITOR EXISTING STORM WATER EROSION CONTROL SYSTEMS AND PERIODICALLY CLEAN, REPAIR, AND UPGRADE AS REQUIRED, IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 5. TRANSITIONS FROM ALL NEW PAVEMENTS TO EXISTING PAVEMENTS AND LAWN AREAS SHALL BE FLUSH WITH FINISH GRADES.
- 6. GRADES WITHIN DRIP-LINE OF VEGETATION TO REMAIN SHALL NOT BE COMPACTED OR ALTERED UNLESS SO DIRECTED IN EITHER THE DRAWINGS OR SPECIFICATIONS. IN THE EVENT THIS IS UNAVOIDABLE, CONSULT THE RESIDENT PROJECT REPRESENTATIVE BEFORE PROCEEDING.
- 7. IT IS THE INTENT OF THE GRADING DESIGN TO ACHIEVE POSITIVE DRAINAGE AND AESTHETICALLY PLEASING VERTICAL CURVES AND LINES. TRANSITIONS BETWEEN EXISTING AND PROPOSED LAWN AREAS SHALL BE SMOOTH AND JOINTS FLUSH. UNLESS OTHERWISE EXPRESSLY NOTED ON THE PLAN (BY ARROWS WITH THE PERCENT SLOPE LABELED. ALL PROPOSED ASPHALT PAVING SHALL HAVE A SLOPE OF AT LEAST ONE (1) PERCENT AND ALL CONCRETE SHALL HAVE A MINIMUM SLOPE OF AT LEAST ONE (1) PERCENT IN THE DIRECTION INDICATED BY PROPOSED CONTOURS. UNPAVED AREAS SHALL HAVE A MINIMUM SLOPE OF ONE (1) PERCENT AND MAXIMUM SLOPE OF 3H:1V. FINAL GRADE SHALL ACHIEVE POSITIVE SURFACE DRAINAGE AWAY FROM BUILDINGS AND TOWARD DRAINAGE FACILITIES (SWALES, GUTTERS, INLETS, ETC.) CHANGES IN THE VERTICAL ALIGNMENT OF PAVED SURFACES SHALL BE A STRAIGHT LINE SLOPE WITH PARABOLIC VERTICAL CURVE THAT TRANSITIONS SMOOTHLY INTO A TANGENT.

**UTILITY NOTES:**

- 1. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE COVERS, CATCH BASIN FRAMES AND GRATES, WATER VALVE COVERS, GAS VALVES, AND OTHER UTILITIES WHERE ENCOUNTERED TO MATCH NEW LINE AND FINISHED GRADE OF LAWN, SIDEWALK OR PAVEMENT.
- 2. CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES, AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION.

**EROSION AND SEDIMENT CONTROL NOTES:**

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," CURRENT EDITION.
- 2. THE LIMITS OF DISTURBANCE FOR ANY PROPOSED SITE CLEARING OR GRADING SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK.
- 3. ESTABLISH THE LOCATION OF PROPOSED EROSION AND SEDIMENT CONTROL MEASURES (STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, TOPSOIL STOCKPILE AREA, ETC.). CLEAR SAID LOCATIONS FOR INSTALLATION.
- 4. INSTALL SEDIMENT BARRIERS AND TRAPS (SILT FENCE, BASIN TRAPS, OUTLET PROTECTION, ETC.). INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING OPERATIONS.
- 5. INSTALL RUNOFF CONTROL MEASURES (DIVERSIONS, OUTLET PROTECTION, ETC.) AND ADDITIONAL RUNOFF CONTROL MEASURES AS NEEDED DURING GRADING.
- 6. CLEAR AND GRADE THE PROPOSED AREA OF DISTURBANCE.

- 7. APPLY SURFACE STABILIZATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING, AND WHERE WORK IS DELAYED OR COMPLETED AND WILL NOT BE REDISTURBED FOR TWENTY ONE (21) DAYS OR MORE, SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE COVER WITHIN SEVEN (7) DAYS. IN SPRING, SUMMER OR EARLY FALL APPLY RYE GRASS AT A RATE OF 1 LB/1000 SF IN LATE FALL OR EARLY SPRING, APPLY CERTIFIED AROOSTOOK RYE AT A RATE OF 2.5 LBS/1000 SF OR WOOD FIBER HYDROMULCH AT THE MANUFACTURER'S RECOMMENDED RATE. HAY OR STRAW SHOULD BE ANCHORED.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY PERIODICALLY SPRINKLING EXPOSED SOIL AREAS WITH WATER AS REQUIRED. THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT AND WATER NECESSARY TO PERFORM THIS WORK.
- 10. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.
- 11. THE EROSION CONTROL MEASURES DEPICTED ON THESE PLANS ARE THE MINIMUM REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ALL GENERAL AND PARTICULAR MEASURES DEEMED NECESSARY BY THE OWNER'S FIELD REPRESENTATIVES.
- 12. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE PROHIBITED.
- 13. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
- 14. CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES AND SHALL NOT OPERATE UNNECESSARILY WITHIN WATERWAYS OR DRAINAGE DITCHES.
- 15. STABILIZED CONSTRUCTION ENTRANCES SHALL BE UTILIZED FOR ALL CONSTRUCTION TRAFFIC AT ALL POINTS OF PROJECT SITE ACCESS AND EGRESS. WITH APPROVAL FROM THE RESIDENT PROJECT REPRESENTATIVE, THE CONTRACTOR MAY MODIFY THE LOCATION AND QUANTITY OF STABILIZED CONSTRUCTION ENTRANCES TO BETTER SUIT CONSTRUCTION. ALL STABILIZED CONSTRUCTION ENTRANCES UTILIZED DURING CONSTRUCTION SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT OFF-SITE OR ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF-SITE OR ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED AND CLEANED IMMEDIATELY.
- 16. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE (IF IT IS NOT USED IMMEDIATELY FOR GRADING PURPOSES AND IF IT IS EXPECTED TO REMAIN EXPOSED FOR PERIODS LESS THAN THIRTY (30) DAYS) SHALL HAVE HAY BALE BERMS OR SILT FENCES CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL AND EXCAVATED OVERBURDEN. HAY BALE BERMS AND SILT FENCES SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED.
- 17. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25'-0" OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.
- 18. PROVIDE EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 3H:1V, TYPICAL THROUGHOUT THE ENTIRE SITE.

**PROPOSED EASEMENT NOTES:**

- 1. TWO PERMANENT USE EASEMENTS HAVE BEEN GRANTED FOR THIS PROJECT (PEDESTRIAN EASEMENT-1 AND PEDESTRIAN EASEMENT-2). REFER TO THE DRAWINGS ENTITLED "DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS," SHEETS SV-12 AND SV-13, PREPARED BY KAATERSKILL ASSOCIATES, DATED 4/23/2016 FOR DETAILED INFORMATION ON THE LOCATION AND BEARINGS OF THESE EASEMENTS. FOR REFERENCE, THESE EASEMENTS ARE SHOWN ON THE LAYOUT PLANS PROVIDED IN THIS DRAWING SET.

**Lead Consultant:**



**Project Sponsors:**

**Project Title:**

**Catskill Creek Waterfront Walkway**  
Village of Catskill, Greene County, New York

**Sheet Title:**

**General Notes**

**Drawing Log:**

Rev. 05	
DATE	
Rev. 04	
DATE	
Rev. 03	
DATE	
Rev. 02	
DATE	
Rev. 01	
DATE	
ISSUED FOR BID	11.11.2016

**DRAWN BY:** - WDN

**CHECKED BY:** - JET

**FILE:** -

**JOB. NO.:** - 14-001.1

**DRAWING NO.:**

**C-0.2**

Project Sponsors:

IT IS A VIOLATION OF THE LAW FOR ANY PERSONS, UNLESS HE IS ACTION UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER, TO ALTER THIS DRAWING IN ANYWAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE.

Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

Sheet Title:

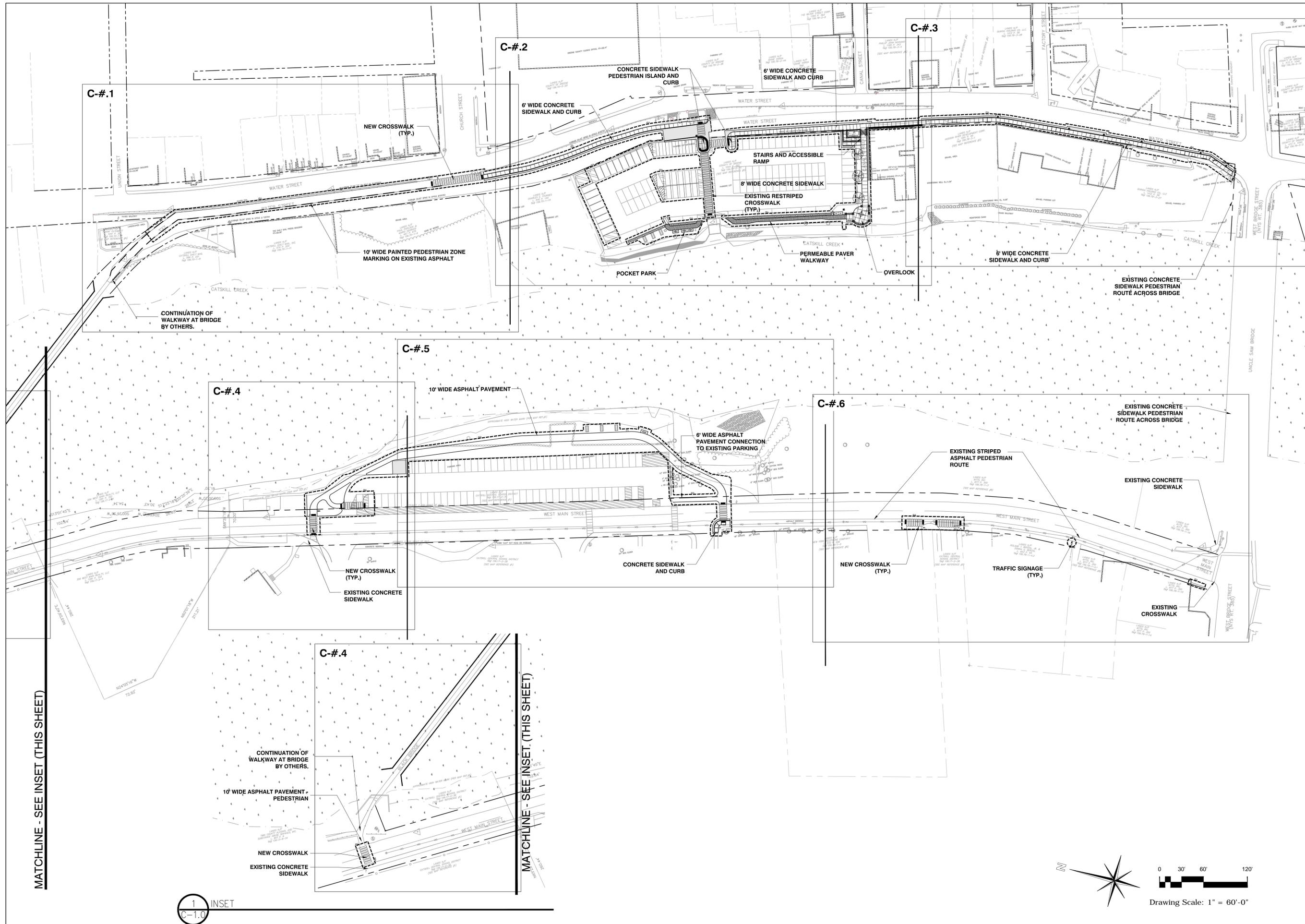
**Overall Site Plan**

Drawing Log:

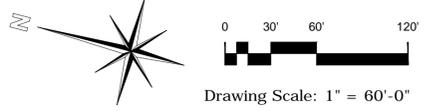
Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE
11.11.2016	

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-1.0**



1  
 C-1.0  
 INSET



MATCHLINE - SEE INSET (THIS SHEET)

MATCHLINE - SEE INSET (THIS SHEET)

# DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS

## LIST OF DRAWINGS

DRAWING	DESCRIPTION
SV-1	TITLE SHEET, LOCATION AND TAX MAPS
SV-2	OVERALL SITE
SV-3	EXISTING CONDITIONS DETAIL AREA 1
SV-4	EXISTING CONDITIONS DETAIL AREA 2
SV-5	EXISTING CONDITIONS DETAIL AREA 3
SV-6	EXISTING CONDITIONS DETAIL AREA 4
SV-7	EXISTING CONDITIONS DETAIL AREA 5
SV-8	EXISTING CONDITIONS DETAIL AREA 6
SV-9	EXISTING CONDITIONS DETAIL AREA 7
SV-10	EXISTING CONDITIONS DETAIL AREA 8
SV-11	BASELINE TIE SHEET
SV-12	PROPOSED PEDESTRIAN EASEMENT 1
SV-13	PROPOSED PEDESTRIAN EASEMENT 2



### GENERAL NOTES:

1. FIELD WORK WAS PERFORMED BY KAATERSKILL ASSOCIATES IN AUGUST 2013, APRIL OF 2014, AND APRIL 2016.
2. THIS PROJECT IS ON STATE PLANE COORDINATES AND UGSS DATUM.
3. UTILITIES ARE TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO CONSTRUCTION.
4. MAPPING DOES NOT REFLECT ANY UNFILED DEEDS OR SURVEY MAPS THAT MAY EXIST. PROPERTY LINES SHOWN ARE BASED ON RECORD MAPPING, AVAILABLE DEEDS AND MAPS INCLUDING TAX MAPS. PROPERTY LINES ARE TO BE IDENTIFIED IN FIELD BEFORE CONSTRUCTION.
5. ALL UNDERGROUND STORMWATER DRAINAGE PIPE MAPPING IS BASED ON FIELD OBSERVATIONS. LOCATIONS TO BE VERIFIED IN THE FIELD BY CONTRACTOR PRIOR TO CONSTRUCTION.

### MAP REFERENCES:

- 1) "BOUNDARY & TOPOGRAPHIC SURVEY CATSKILL MIDDLE/HIGH SCHOOL" PREPARED BY BOLTON LAND SURVEYING, DATED 03/03/2005.
- 2) "SURVEY & TOPOGRAPHIC, PREPARED FOR THE GREENE COUNTY IDA" PREPARED BY ROBERT J. IHLENBURG, DATED 12/28/2005.
- 3) "SURVEY MAP OF LANDS OF HUDSON RIVER DEVELOPMENT CORP" PREPARED BY SANTO ASSOCIATES DATED 11/14/2008 AND FILED IN THE GREENE COUNTY CLERK'S OFFICE 02/20/2009 AS EASI J 2009-24.
- 4) "SURVEY AND MAP OF LANDS OF RALPH AND HOLLY HEBB" PREPARED BY SANTO ASSOCIATES DATED 08/04/2005 AND FILED IN THE GREENE COUNTY CLERK'S OFFICE 07/13/2006 AS EASI F 2006-143.
- 5) "SURVEY AND MAP OF LANDS PREPARED FOR GREENE COUNTY PLANNING DEPARTMENT" PREPARED BY SANTO ASSOCIATES DATED 11/04/2011.
- 6) "MAP OF SURVEY OF LANDS OF THOMAS B. THORNTON, INC." PREPARED BY HARVEY ASSOCIATES, DATED 09/12/1989 AND FILED IN THE GREENE COUNTY CLERK'S OFFICE 09/15/1989 AS EASI E 213-53.
- 7) UNTITLED MAP BY SANTO ASSOCIATES DATED 09/17/2007 FOUND IN FILES OF GREENE COUNTY REAL PROPERTY OFFICE.
- 8) "LAND OF WILLIAM A.C. PALMIER" PREPARED BY ROBERT W. JONES DATED 12/12/1940.
- 9) "DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS", PREPARED BY KAATERSKILL ASSOCIATES, DATED 4/23/2014, LAST REVISED 7/17/2014.

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) TO BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY WORK, MATERIALS OR EQUIPMENT THAT MAY REASONABLY BE INFERRED FROM THE CONTRACT DOCUMENTS OR FROM PREVAILING CUSTOM OR TRADE USAGE AS BEING REQUIRED TO PRODUCE THE INTENDED RESULT WILL BE FURNISHED AND PERFORMED WHETHER OR NOT SPECIFICALLY CALLED FOR AT NO ADDITIONAL COST TO THE OWNER.

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REV	DATE	DESCRIPTION	APP.
4	20161031	REVISIONS TO SHOW UPDATED TOPOGRAPHY & EASEMENTS	JWV
3	20140717	REVISIONS PER RYAN BERRY OF ELAN PLANNING	CPV
2	20140423	ADDED ADDITIONAL DETAIL AREAS	CPV
1	20130923	FINAL PROPERTY LINES	CPV

**DOWNTOWN STREETScape  
AND  
WALKING LOOP ENHANCEMENTS**

WATER STREET  
TOWN OF CATSKILL      GREENE COUNTY, NY

**TITLE SHEET, LOCATION AND TAX MAPS**

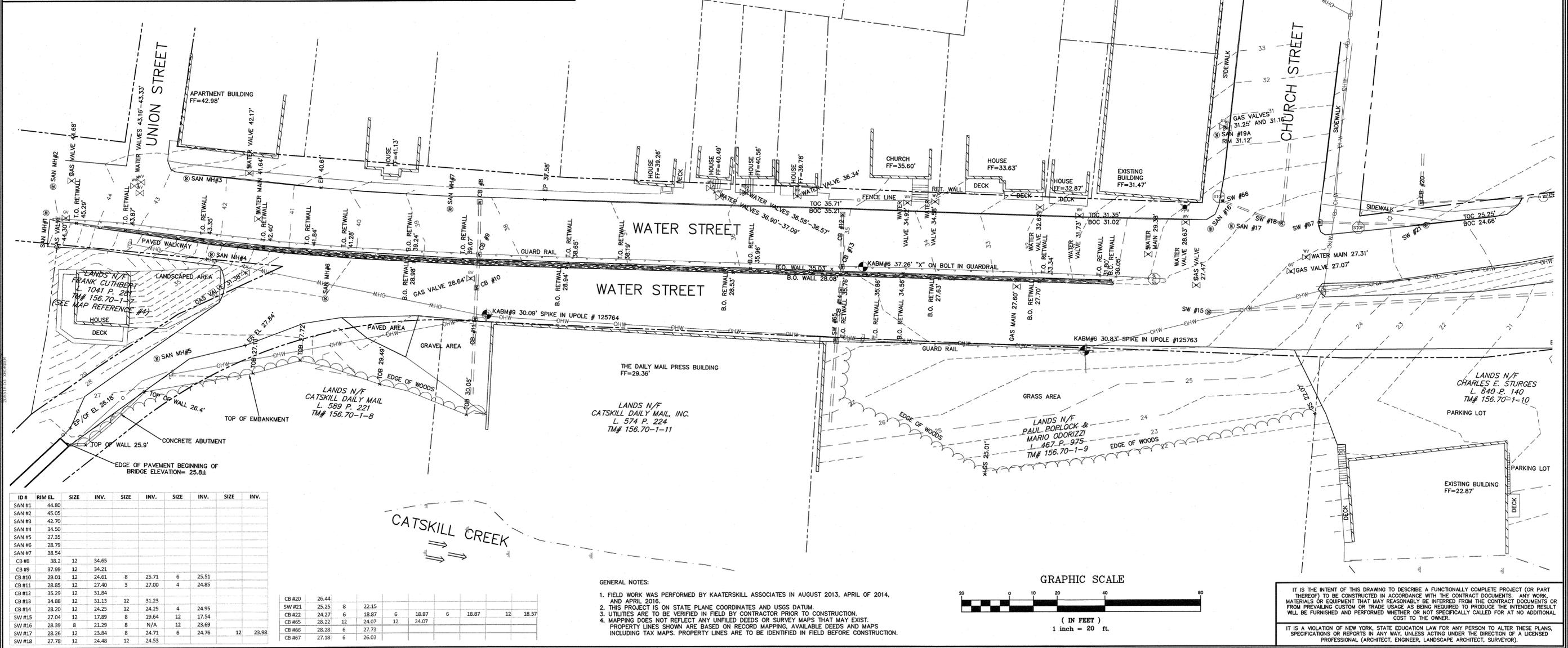
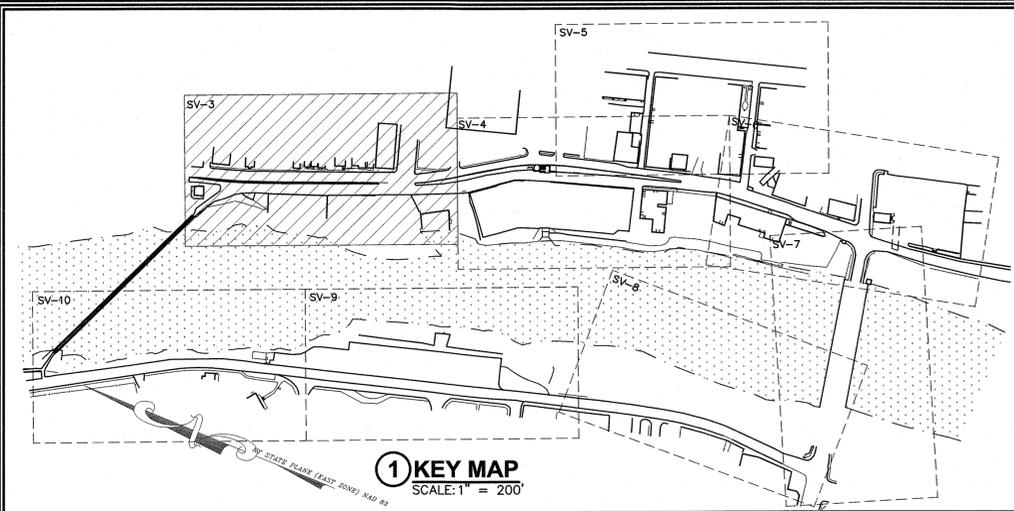
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DATE: 4/23/2014  
SCALE: AS NOTED  
DRAWN BY: RAP/MLS  
DESIGNED BY: JWV  
CHECKED BY: JWV  
FILE: 205516.03\_PS\_REVISED.DWG



DRAWING: **SV-1**  
SHEET 1 OF 13

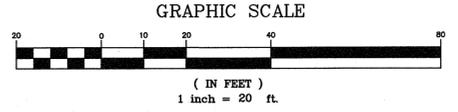
KAATERSKILL ASSOCIATES  
 105 E. 7th St. Cairo, NY 13614  
 TEL: 518-622-9667 FAX: 518-622-9668  
 WWW.KEAENG.COM  
 FILE: L:\2016\205516.03\_Plan\205516.03\_PS\_REVISED.dwg  
 User: rjones Nov 07, 2016 - 8:50am  
 Layout: TITLE SHEET SV1





ID #	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
SAN #1	44.80								
SAN #2	45.05								
SAN #3	42.70								
SAN #4	34.50								
SAN #5	27.35								
SAN #6	28.79								
SAN #7	38.54								
CB #8	36.2	12	34.65						
CB #9	37.99	12	34.21						
CB #10	29.01	12	24.61	8	25.71	6	25.51		
CB #11	28.85	12	27.40	3	27.00	4	24.85		
CB #12	35.29	12	31.84						
CB #13	34.88	12	31.13	12	31.23				
CB #14	28.20	12	24.25	12	24.25	4	24.95		
SW #15	27.04	12	17.89	8	19.64	12	17.54		
SW #16	28.39	8	21.29	8	N/A	12	23.69		
SW #17	28.26	12	23.84	8	24.71	6	24.76	12	23.98
SW #18	27.78	12	24.48	12	24.53				
CB #20	26.44								
SW #21	25.25	8	22.15						
CB #22	24.27	6	18.87	6	18.87	6	18.87	12	18.37
CB #65	28.22	12	24.07	12	24.07				
CB #66	28.28	6	27.73						
CB #67	27.18	6	26.03						

GENERAL NOTES:  
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3	20140717	REVISIONS PER RYAN BERRY OF ELAN PLANNING	CPV
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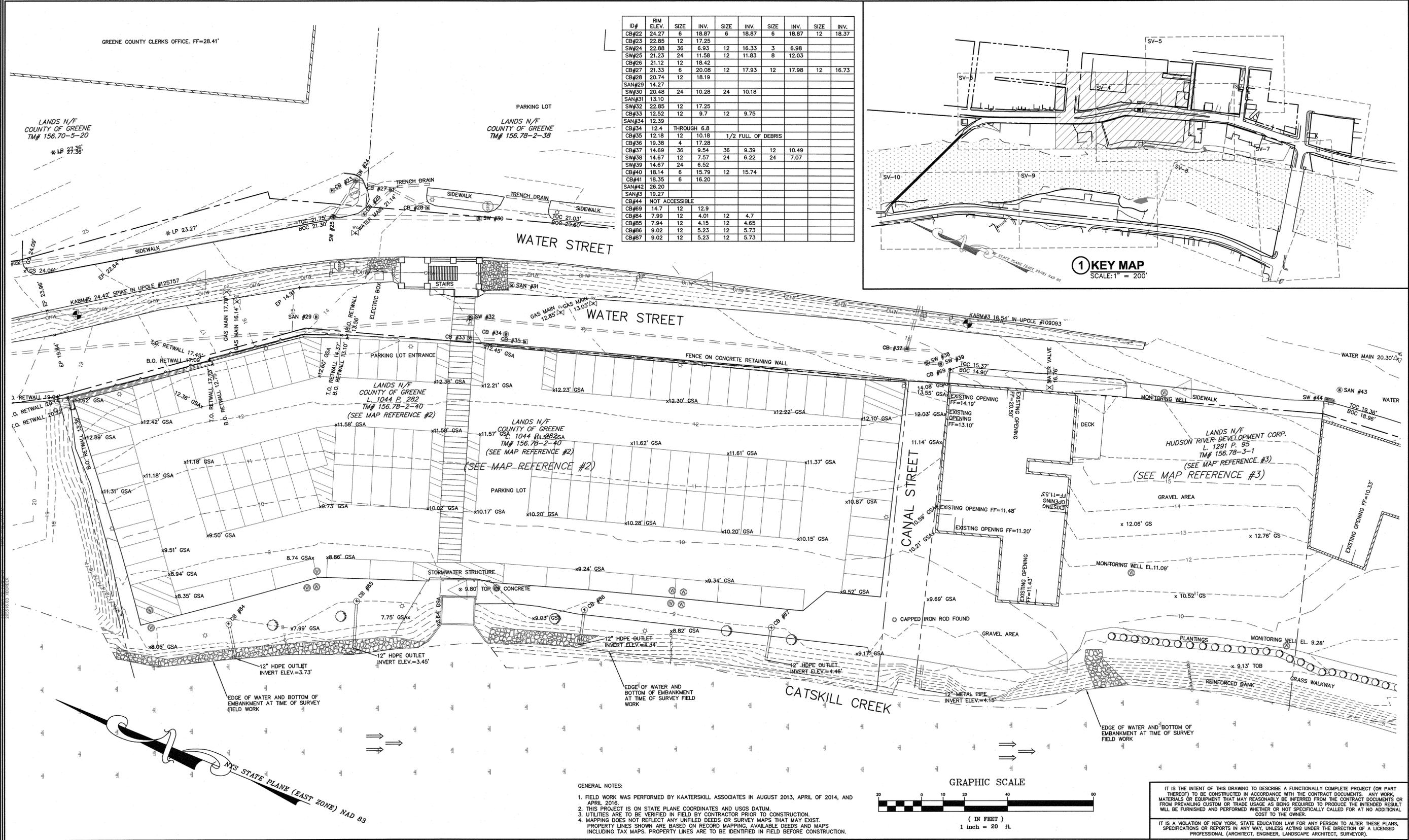
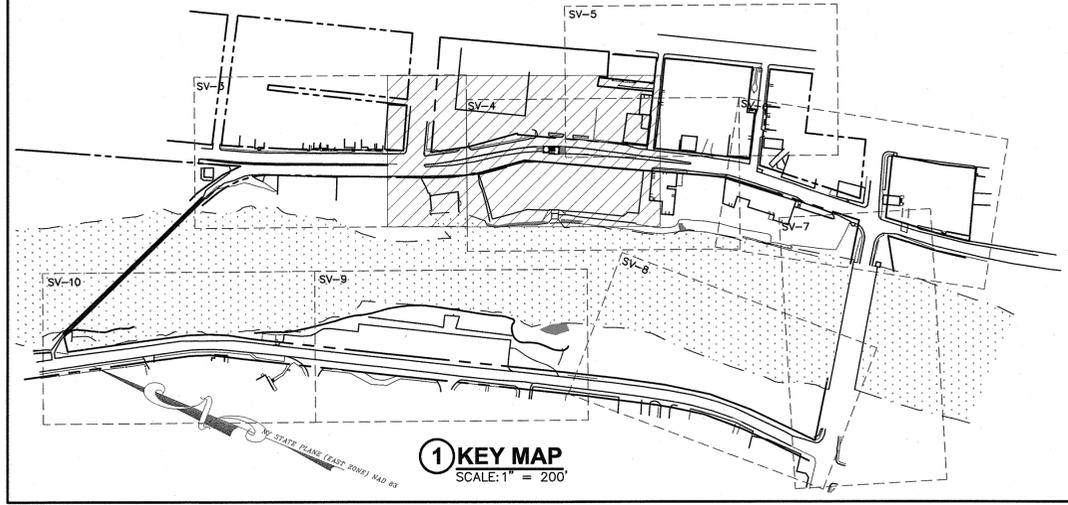
**DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS**  
 WATER STREET  
 TOWN OF CATSKILL      GREENE COUNTY, NY  
**EXISTING CONDITIONS DETAIL AREA 1**

PROJECT: 205516.03  
 DATE: 4/23/2014  
 SCALE: AS NOTED  
 DRAWN BY: RAP/MLS  
 DESIGNED BY: JWV  
 CHECKED BY: JWV  
 FILE: 205516.03 PS\_REVISED.DWG

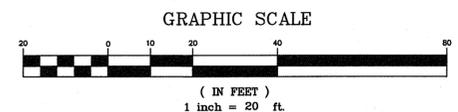


DRAWING: **SV-3**  
 SHEET 3 OF 13

ID#	RIM ELEV.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
CB#22	24.27	6	18.87	6	18.87	12	18.37		
CB#23	22.85	12	17.25						
SW#24	22.88	36	6.93	12	16.33	3	6.98		
SW#25	21.23	24	11.58	12	11.83	8	12.03		
CB#26	21.12	12	18.42						
CB#27	21.33	6	20.08	12	17.93	12	17.98	12	16.73
CB#28	20.74	12	18.19						
SAN#29	14.27								
SW#30	20.48	24	10.28	24	10.18				
SAN#31	13.10								
SW#32	22.85	12	17.25						
CB#33	12.52	12	9.7	12	9.75				
SAN#34	12.39								
CB#34	12.4	THROUGH	6.8						
CB#35	12.18	12	10.18	1/2	FULL OF DEBRIS				
CB#36	19.38	4	17.28						
CB#37	14.69	36	9.54	36	9.39	12	10.49		
SW#38	14.67	12	7.57	24	6.22	24	7.07		
SW#39	14.67	24	6.52						
CB#40	18.14	6	15.79	12	15.74				
CB#41	18.35	6	16.20						
SAN#42	26.20								
SAN#43	19.27								
CB#44	NOT ACCESSIBLE								
CB#49	14.7	12	12.9						
CB#84	7.99	12	4.01	12	4.7				
CB#85	7.94	12	4.15	12	4.65				
CB#86	9.02	12	5.23	12	5.73				
CB#87	9.02	12	5.23	12	5.73				



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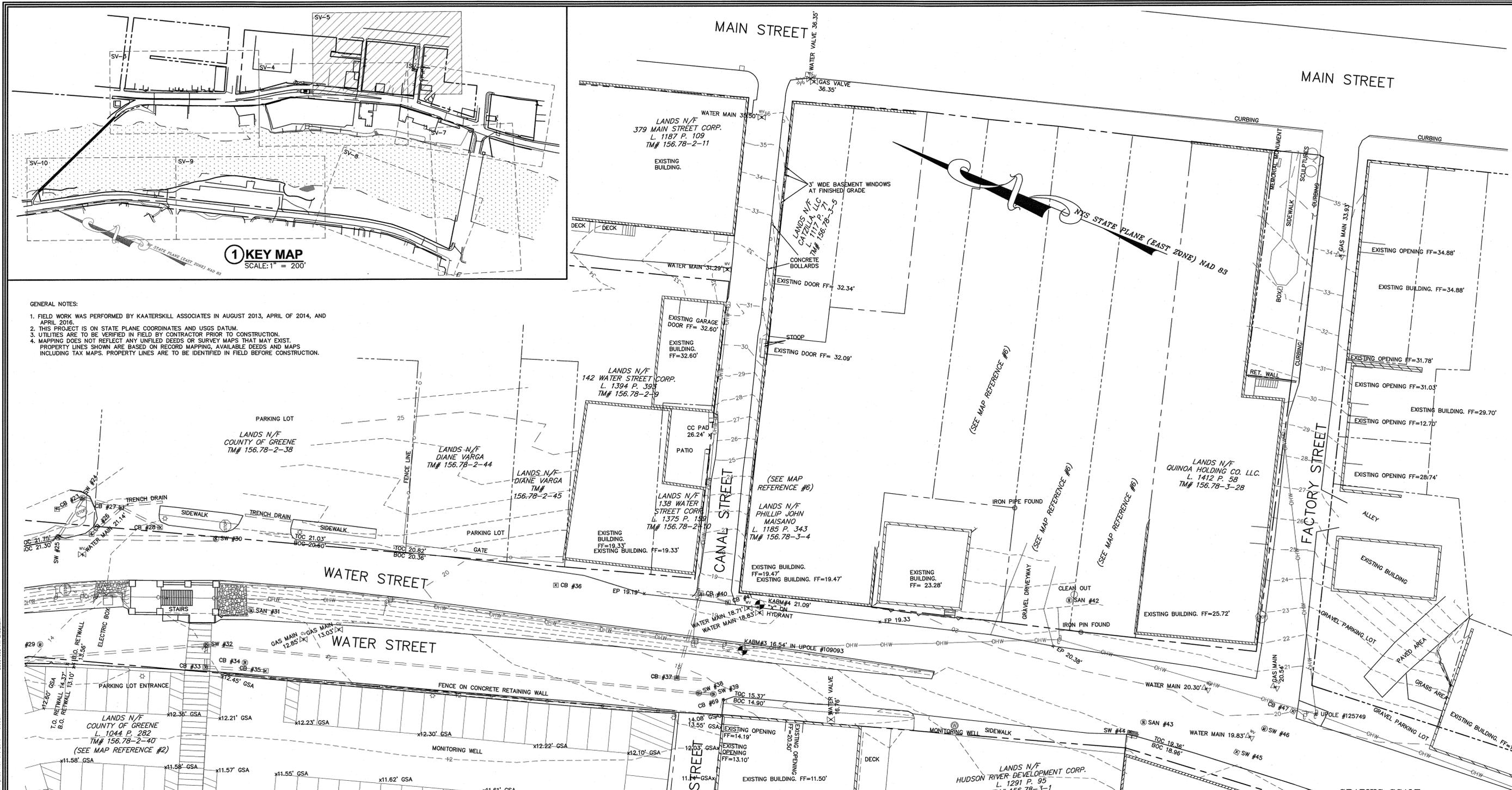
**DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS**  
 WATER STREET      GREENE COUNTY, NY

**EXISTING CONDITIONS DETAIL AREA 2**

PROJECT: 205516.03  
 DATE: 4/23/2014  
 SCALE: AS NOTED  
 DRAWN BY: RAP/MLS  
 DESIGNED BY: JWV  
 CHECKED BY: JWV  
 FILE: 205516.03\_PS\_REVISED.DWG

**SV-4**

SHEET 4 OF 13



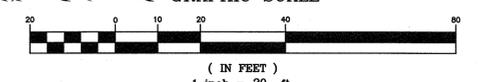
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ID #	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
CB #23	22.85	12	17.25						
SW #24	22.88	36	6.93	12	16.33	3	6.98		
SW #25	21.23	24	11.58	12	11.83	8	12.03		
CB #26	21.12	12	18.42						
CB #27	21.33	6	20.08	12	17.93	12	17.98	12	16.73
CB #28	20.74	12	18.19						

ID #	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
SW #30	20.48	24	10.28	24	10.18				
SAN #31	13.10								
SW #32	12.52	36	7.57	12	2.92				
CB #33	12.37	12	9.77	12	9.77				
CB #36	19.38	4	17.28						
CB #37	14.69	36	9.54	6	10.49	36	9.39		

ID #	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
SW #38	14.67	12	7.57	24	6.22	24	7.07		
SW #39	14.39	24	6.24						
CB #40	18.14	6	15.79	12	15.74				
CB #41	18.35	6	16.20						
CB #45	19.53	36	15.18	36	14.63				
CB #47	19.70	6	17.80						
CB #69	14.7	12	12.93						



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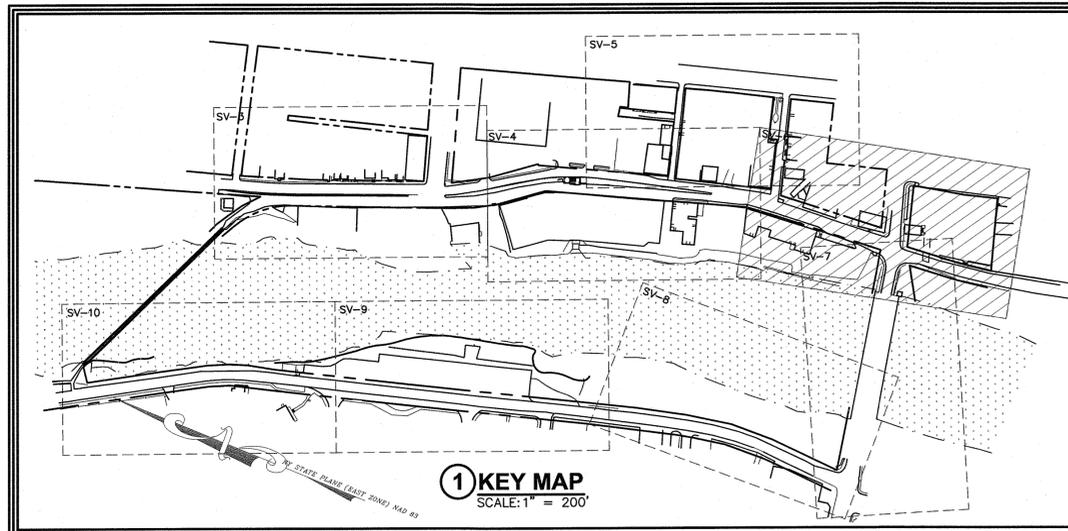
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**DOWNTOWN STREETSCAPE AND WALKING LOOP ENHANCEMENTS**  
 WATER STREET  
 GREENE COUNTY, NY  
**EXISTING CONDITIONS DETAIL AREA 3**

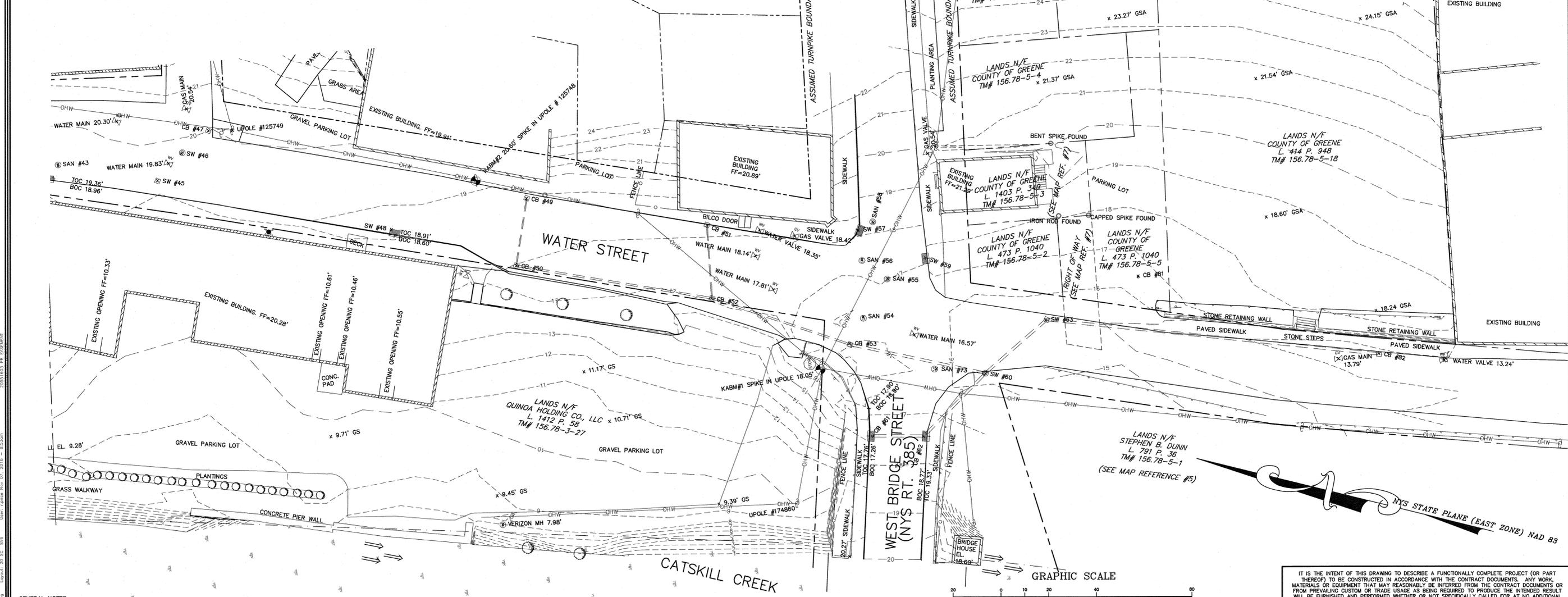
PROJECT: 205516.03  
 DATE: 4/23/2014  
 SCALE: AS NOTED  
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 DESIGNED BY: JWV  
 CHECKED BY: JWV  
 FILE: 205516.03\_PS\_REVISED.DWG

DRAWING: **SV-5**  
 SHEET 5 OF 13



ID #	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
CB #49	18.69	6	17.34						
CB #50	17.95	6	15.55	8	14.45				
CB #51	18.30	6	15.90						
CB #52	17.23	6	15.43	8	14.13	THROUGH			
CB #53	16.30	4	14.00	8	14.20				
SAN #54	16.96								
SAN #55	17.23								
SAN #56	17.47								
SEALD OFF WITH BENT REBAR									
SW #44	19.49								
SW #45	19.53	36	14.63	36	15.18				
SW #46	19.97	12	11.17	12	11.17				
CB #47	19.7	8	17.8	6	18.4	2X4"	18.4		
SW #48	19.05	12	16.55	4X4"	5X1" FOOTING DRAINS				

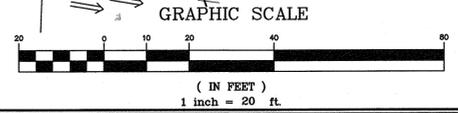
ID #	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.	SIZE	INV.
SW #57	18.28	18	14.13	NO DISCHARGE	DEBRIS				
SAN #58	18.38								
SW #59	17.21	18	13.71						
SAN #60	15.37								
CB #61	17.52	12	13.32						
CB #62	17.52	12	12.27						
CB #73	8.87	FULL OF DEBRIS							2524
CB #81	16.24	WATER LEVEL AT 10.94							
CB #82	13.2	18	6.5	18	6.5				



USER: rprice Nov. 07, 2016 - 8:53am  
 LOGOUT: 20 30 30  
 FILE: L:\2016\205516.03 PS\_REVISED.DWG  
 USER: rprice Nov. 07, 2016 - 8:53am  
 LOGOUT: 20 30 30  
 FILE: L:\2016\205516.03 PS\_REVISED.DWG

GENERAL NOTES:  
 1. FIELD WORK WAS PERFORMED BY KAATERSKILL ASSOCIATES IN AUGUST 2013, APRIL OF 2014, AND APRIL 2016.  
 2. THIS PROJECT IS ON STATE PLANE COORDINATES AND USGS DATUM.

3. UTILITIES ARE TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO CONSTRUCTION.  
 4. MAPPING DOES NOT REFLECT ANY UNFILED DEEDS OR SURVEY MAPS THAT MAY EXIST. PROPERTY LINES SHOWN ARE BASED ON RECORD MAPPING, AVAILABLE DEEDS AND MAPS INCLUDING TAX MAPS. PROPERTY LINES ARE TO BE IDENTIFIED IN FIELD BEFORE CONSTRUCTION.



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**KAATERSKILL ASSOCIATES**  
 SURVEYORS-ARCHITECTS-ENGINEERS-LANDSCAPE ARCHITECTS-CONSTRUCTION MANAGERS  
 CAIRO, NY (518) 622-9667      WWW.KEAENG.COM

REV	DATE	DESCRIPTION	APP.
4	20161031	REVISIONS TO SHOW UPDATED TOPOGRAPHY & EASEMENTS	JWV
3	20140717	REVISIONS PER RYAN BERRY OF ELAN PLANNING	CPV
2	20140423	ADDED ADDITIONAL DETAIL AREAS	CPV
1	20130923	FINAL PROPERTY LINES	CPV

**DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS**  
 WATER STREET  
 GREENE COUNTY, NY

**EXISTING CONDITIONS DETAIL AREA 4**

PROJECT: 205516.03  
 DATE: 4/23/2014  
 SCALE: AS NOTED  
 DRAWN BY: RAP/MJS  
 DESIGNED BY: JWV  
 CHECKED BY: JWV  
 FILE: 205516.03 PS\_REVISED.DWG

DRAWING: **SV-6**  
 SHEET 6 OF 13









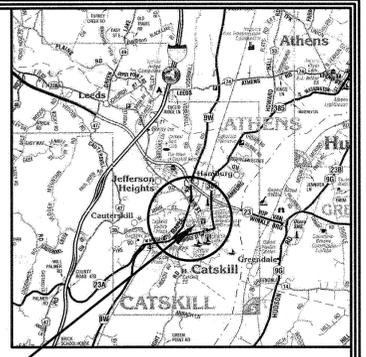
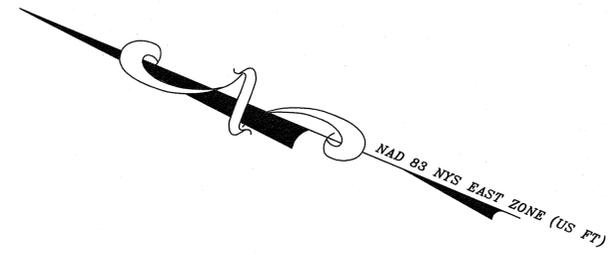


**GENERAL NOTES:**

1. FIELD WORK WAS PERFORMED BY KAATERSKILL ASSOCIATES IN AUGUST 2013, APRIL OF 2014, AND APRIL 2016.
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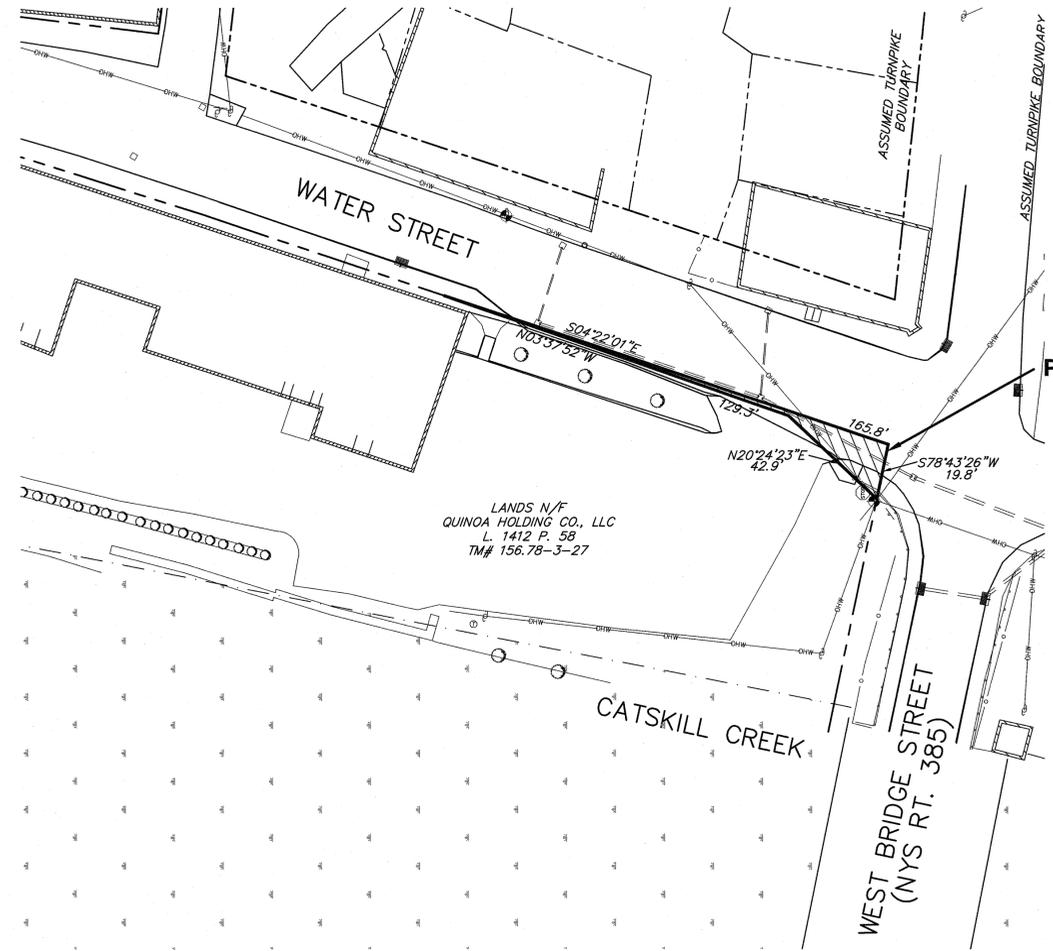
**MAP REFERENCES:**

- 1) "BOUNDARY & TOPOGRAPHIC SURVEY CATSKILL MIDDLE/HIGH SCHOOL" PREPARED BY BOLTON LAND SURVEYING, DATED 03/03/2005.
- 2) "SURVEY & TOPOGRAPHIC, PREPARED FOR THE GREENE COUNTY IDA" PREPARED BY ROBERT J. IHLENBURG, DATED 12/28/2005.
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- 5) "SURVEY AND MAP OF LANDS PREPARED FOR GREENE COUNTY PLANNING DEPARTMENT" PREPARED BY SANTO ASSOCIATES DATED 11/04/2011.
- 6) "MAP OF SURVEY OF LANDS OF THOMAS B. THORNTON, INC." PREPARED BY HARVEY ASSOCIATES, DATED 09/12/1989 AND FILED IN THE GREENE COUNTY CLERK'S OFFICE 09/15/1989 AS EASI E 213-53
- 7) UNTITLED MAP BY SANTO ASSOCIATES DATED 09/17/2007 FOUND IN FILES OF GREENE COUNTY REAL PROPERTY OFFICE.
- 8) "LAND OF WILLIAM A.C. PALMATIER" PREPARED BY ROBERT W. JONES DATED 12/12/1940.
- 9) "DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS", PREPARED BY KAATERSKILL ASSOCIATES, DATED 4/23/2014, LAST REVISED 7/17/2014.



**SITE LOCATION**

**LOCATION MAP**



**PROPOSED PEDESTRIAN EASEMENT 1**  
**EASEMENT**  
**AREA=498.77± SQ FT**

LANDS N/F  
 QUINOA HOLDING CO., LLC  
 L. 1412 P. 58  
 TM# 156.78-3-27

ID#	RIM EL.	SIZE	INV.	SIZE	INV.	SIZE	INV.
SW#44	19.49	36	14.63	36	15.18		
SW#45	19.53	36	14.63	36	15.18		
SW#46	19.97	12	11.17	12	11.17		
CB#47	19.7	8	17.8	6	18.4	2x4"	18.4
SW#48	19.05	12	16.55	4x4"	5x1"	FOOTING DRAINS	

**LEGEND**

- DENOTES IRON ROD SET (IRS)
- " " PROPERTY ANGLE
- " " IRON PIPE (IPF) OR IRON ROD (IRF) FOUND
- " " CONCRETE MONUMENT (MON)
- ⊙ " " MONITOR WELL
- ⊗ " " GAS VALVE
- ⊕ " " WATER VALVE
- ⊙ " " DRAINAGE MANHOLE
- ⊙ " " SEWER MANHOLE
- ⊙ " " TELEPHONE MANHOLE
- " " CATCH BASIN
- " " CURB INLET
- ☆ " " LIGHT POST
- uw — " " UTILITY POLE AND OVERHEAD UTILITY
- o — " " FENCE LINE
- o — " " GUARD RAIL
- o — " " RETAINING WALL
- ▨ " " CROSSWALK
- ▨ " " 'NO PARKING' AREA

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 SURVEYORS-ARCHITECTS-ENGINEERS-LANDSCAPE ARCHITECTS-CONSTRUCTION MANAGERS  
 CAIRO, NY (518) 622-9667      WWW.KEAENG.COM

REV	DATE	DESCRIPTION	APP.
1	10/31/16	REVISIONS TO SHOW UPDATED TOPOGRAPHY & EASEMENTS	JWV

**DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS**  
 WATER STREET  
 VILLAGE OF CATSKILL      GREENE COUNTY, NY  
**PROPOSED PEDESTRIAN EASEMENT 1**

PROJECT: 205516.03  
 DATE: 4/23/16  
 SCALE: 1"=30'  
 DRAWN BY: RAP  
 DESIGNED BY: JWV  
 CHECKED BY: JWV  
 FILE: 205516.03 PS\_REVISED.DWG



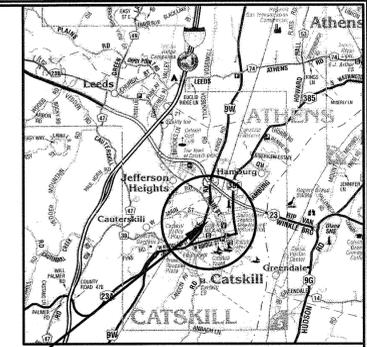
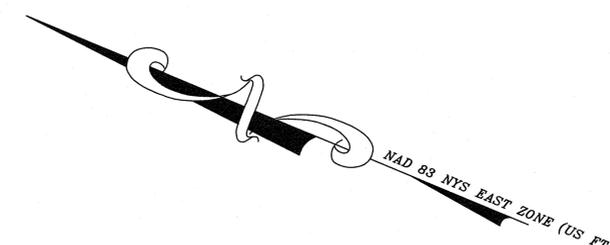
DRAWING: **SV-12**  
 SHEET 12 OF 13

GENERAL NOTES:

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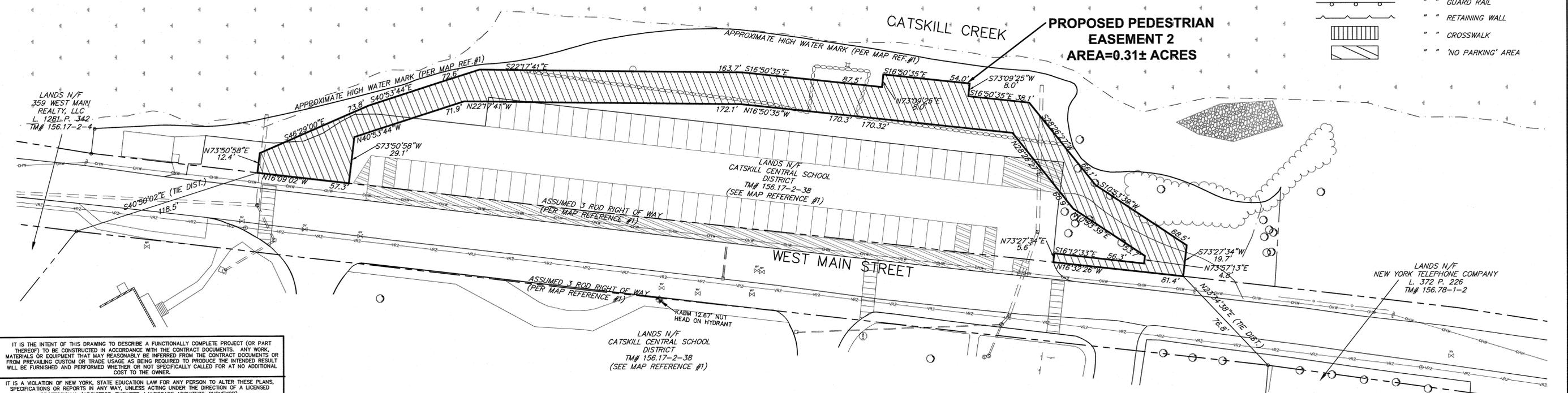


SITE LOCATION

LOCATION MAP

LEGEND

- DENOTES IRON ROD SET (IRS)
- " " PROPERTY ANGLE
- " " IRON PIPE (IPF) OR IRON ROD (IRP) FOUND
- " " CONCRETE MONUMENT (MON)
- ⊙ " " MONITOR WELL
- ⊗ " " GAS VALVE
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REV	DATE	DESCRIPTION	APP.
1	10/31/16	REVISIONS TO SHOW UPDATED TOPOGRAPHY & EASEMENTS	JWV

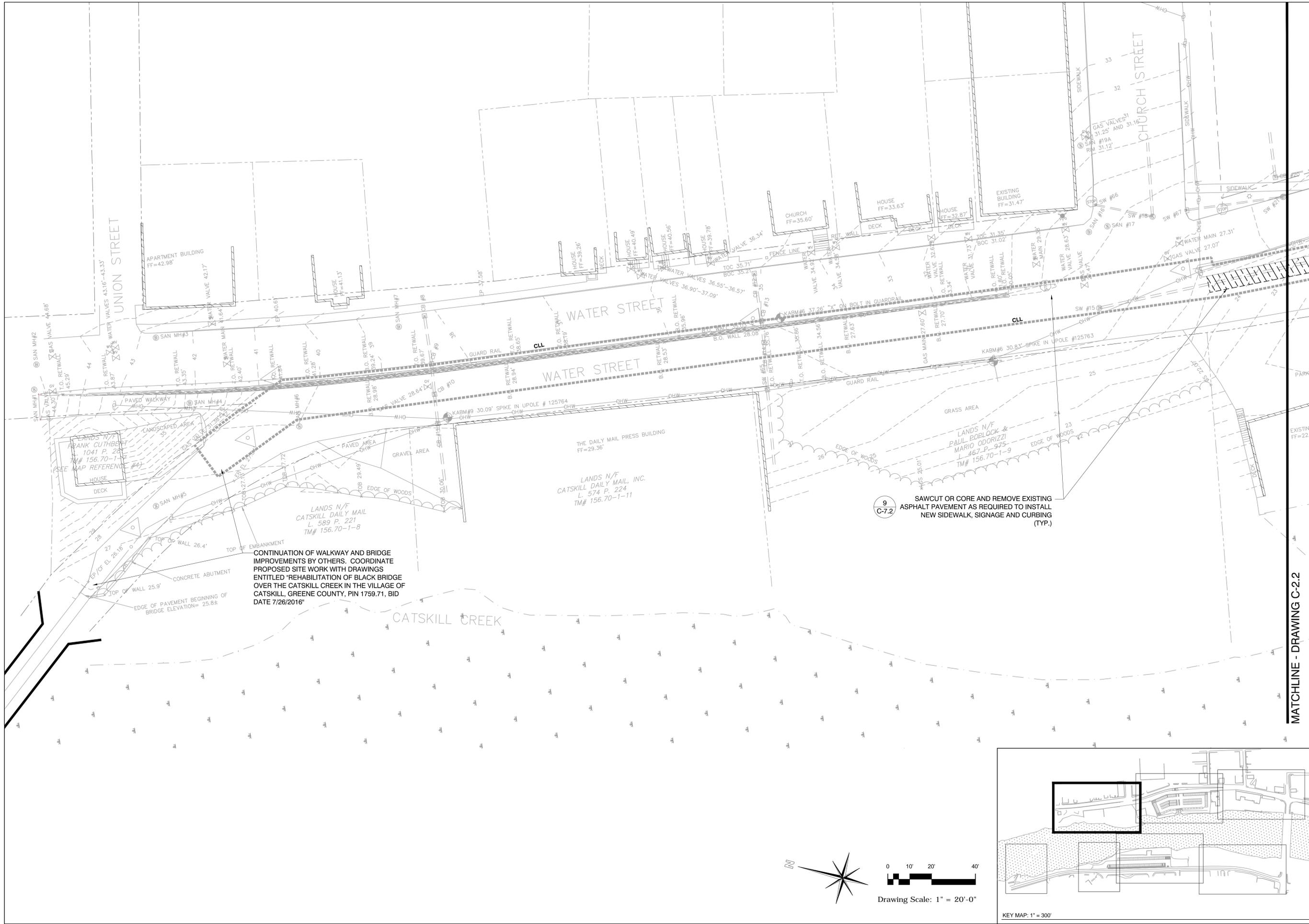
**DOWNTOWN STREETScape AND WALKING LOOP ENHANCEMENTS**  
 WATER STREET  
 VILLAGE OF CATSKILL      GREENE COUNTY, NY

**PROPOSED PEDESTRIAN EASEMENT 2**

PROJECT: 205516.03  
 DATE: 4/23/16  
 SCALE: 1"=30'  
 DRAWN BY: RAP  
 DESIGNED BY: JWV  
 CHECKED BY: JWV  
 FILE: 205516.03 PS\_REVISED.DWG

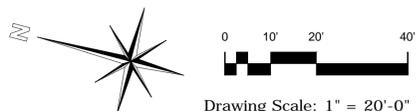


DRAWING: **SV-13**  
 SHEET 13 OF 13

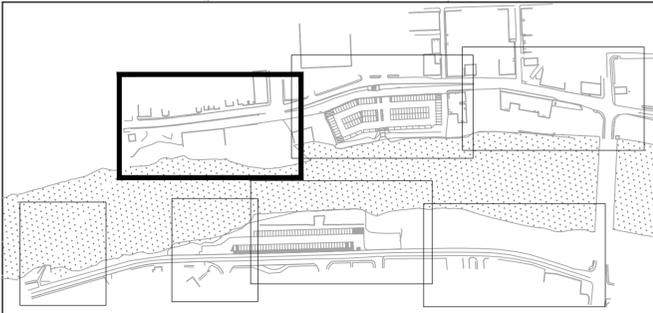


CONTINUATION OF WALKWAY AND BRIDGE IMPROVEMENTS BY OTHERS. COORDINATE PROPOSED SITE WORK WITH DRAWINGS ENTITLED "REHABILITATION OF BLACK BRIDGE OVER THE CATSKILL CREEK IN THE VILLAGE OF CATSKILL, GREENE COUNTY, PIN 1759.71, BID DATE 7/26/2016"

9 C-7.2 SAWCUT OR CORE AND REMOVE EXISTING ASPHALT PAVEMENT AS REQUIRED TO INSTALL NEW SIDEWALK, SIGNAGE AND CURBING (TYP.)



Drawing Scale: 1" = 20'-0"



KEY MAP: 1" = 300'

MATCHLINE - DRAWING C-2.2

Lead Consultant:  
**ELAN**  
 PLANNING / DESIGN / LANDSCAPE ARCHITECTURE, PLLC  
 18 DIVISION STREET  
 STUDIO 304  
 SARATOGA SPRINGS  
 NEW YORK 12866

Project Sponsors:

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Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

Sheet Title:  
**Demolition and Removals Plan - Area 1**

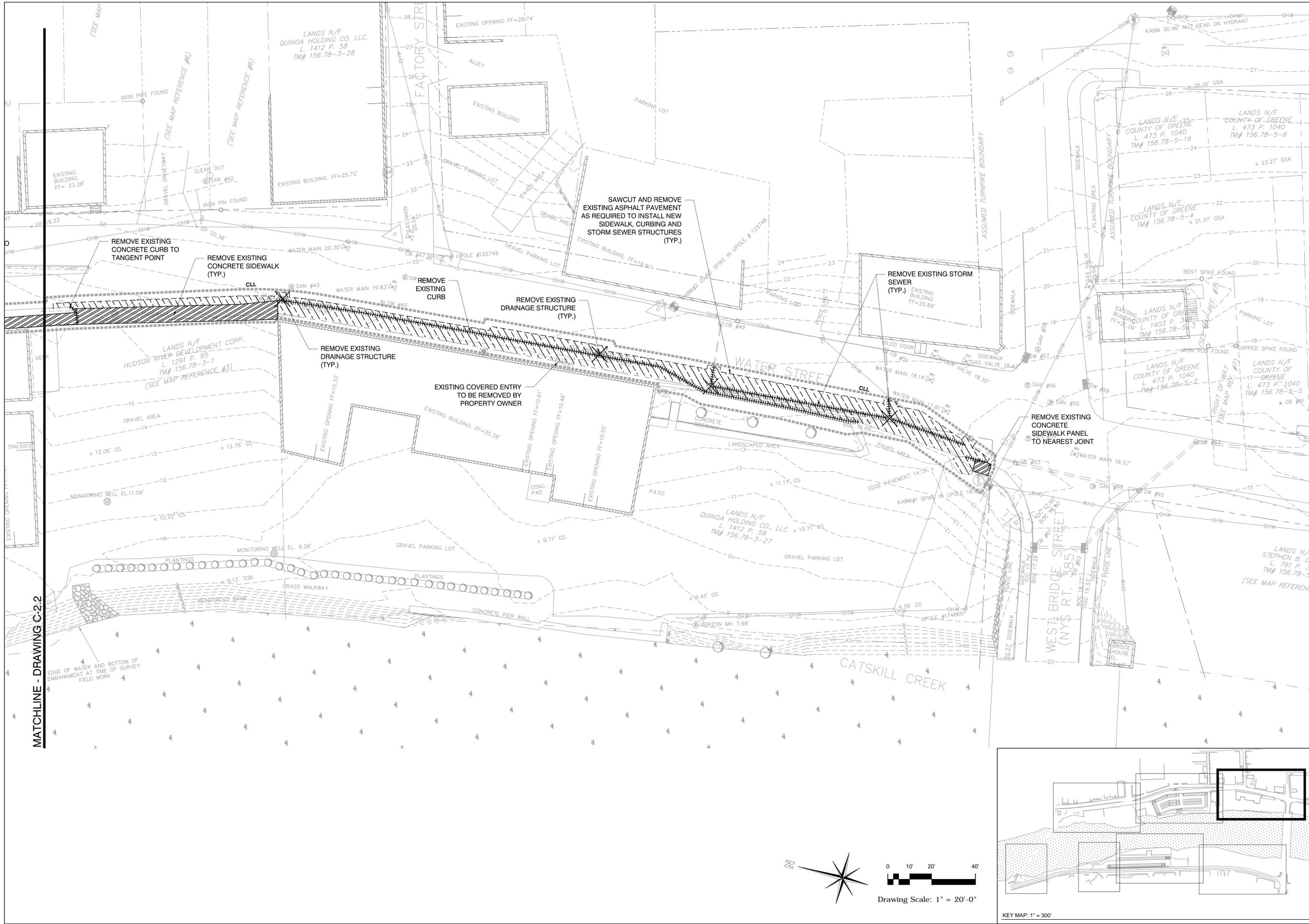
Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE
11.11.2016	

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-2.1**





Project Sponsors:

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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

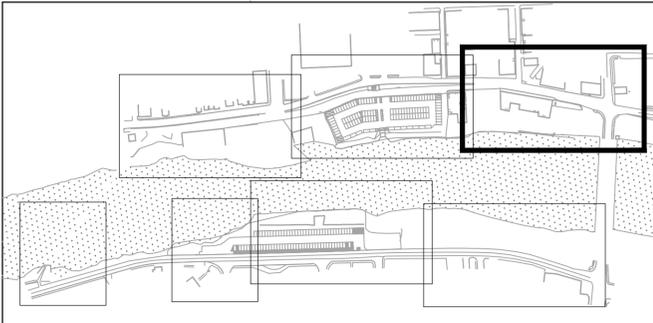
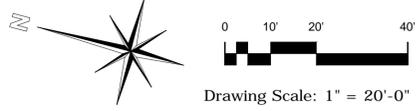
Sheet Title:  
**Demolition and  
 Removals Plan -  
 Area 3**

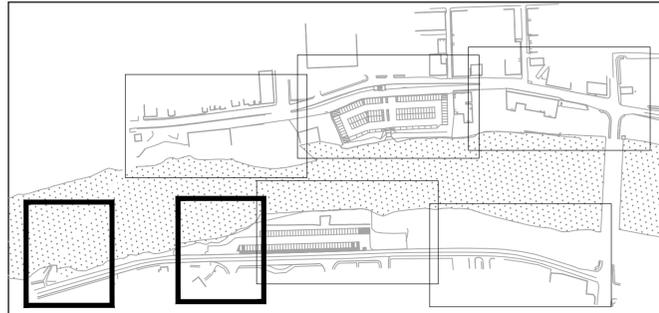
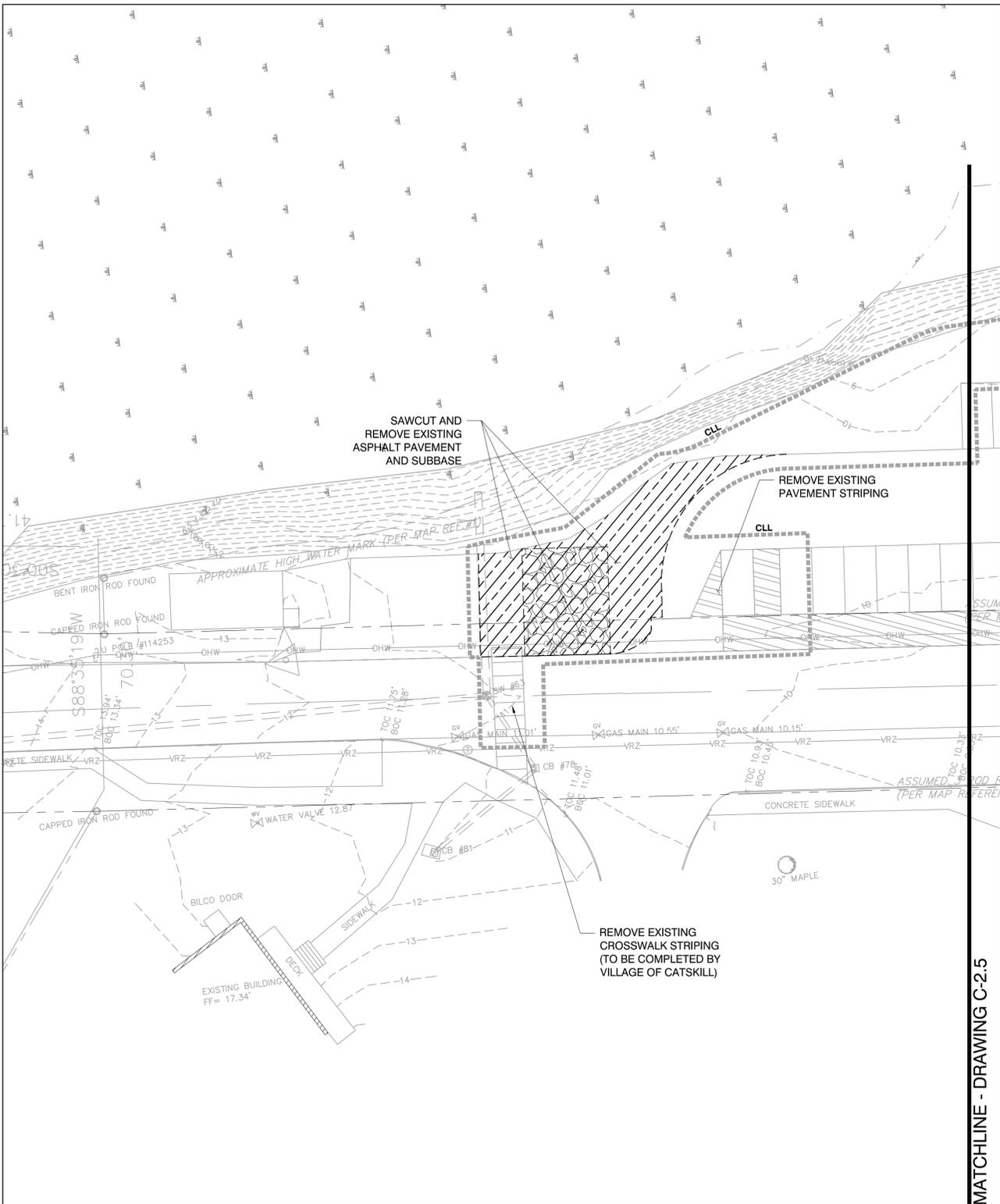
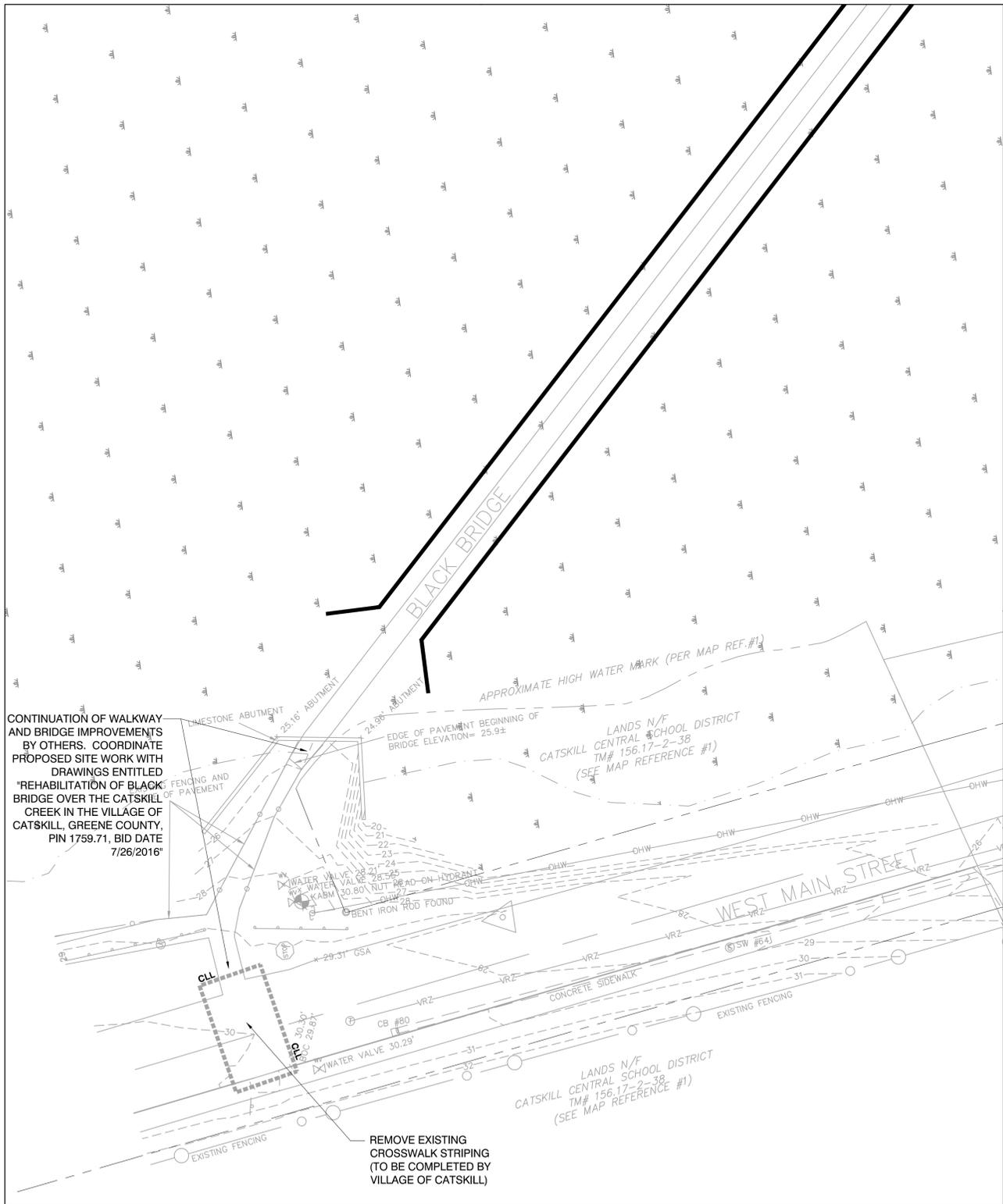
Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

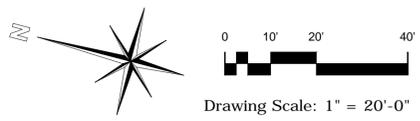
DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-2.3**





**NOTE:**  
 1. DO NOT REMOVE VEGETATION OR PERFORM SITE CLEARING BEYOND CONTRACT LIMIT LINE (CLL). DO NOT REMOVE VEGETATION FROM CATSKILL CREEK EMBANKMENT. COORDINATE VEGETATION REMOVALS AND SITE CLEARING WITH OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.



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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Demolition and  
 Removals Plan -  
 Area 4**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-2.4**

Project Sponsors:

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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

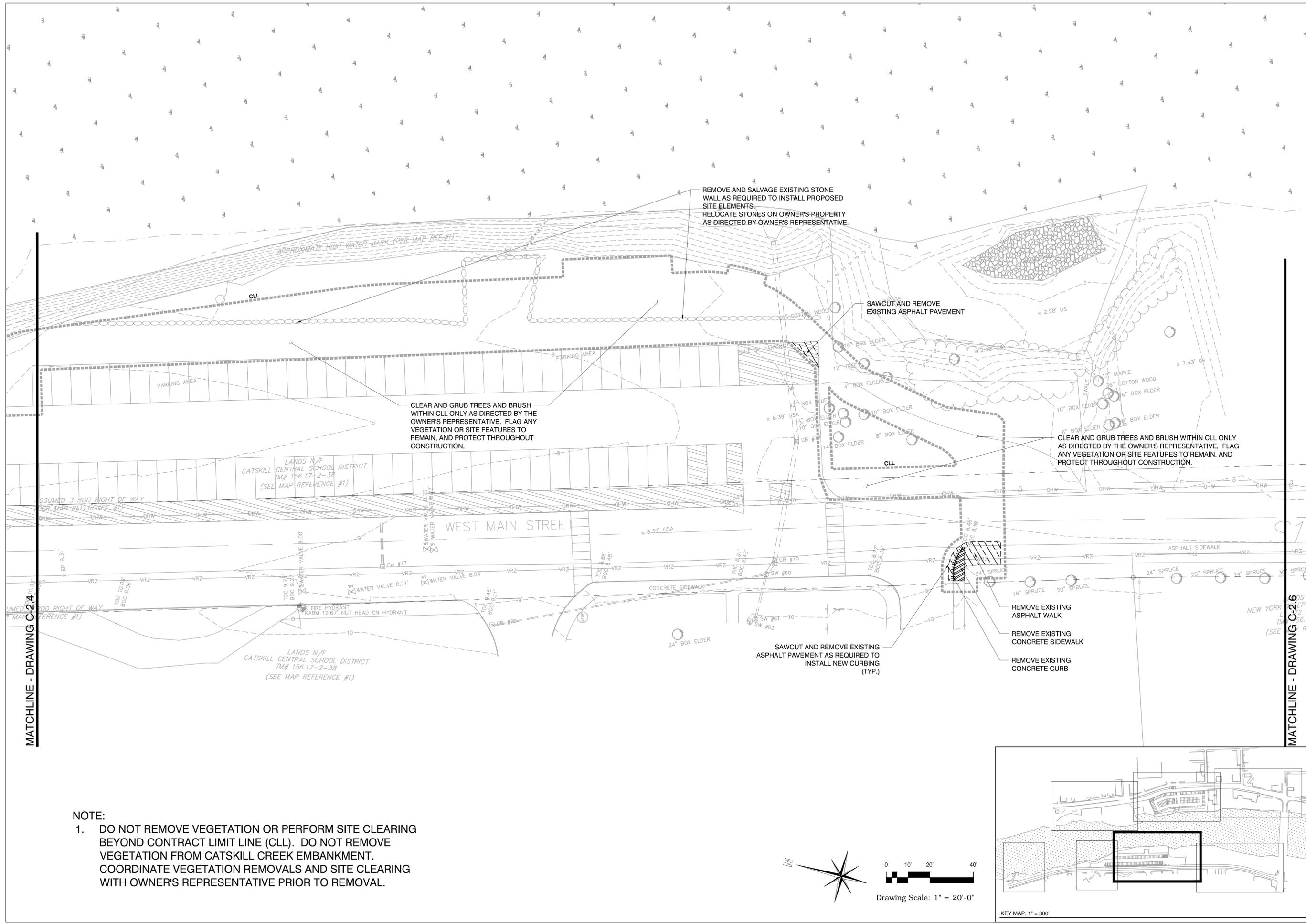
Sheet Title:  
**Demolition and  
 Removals Plan -  
 Area 5**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

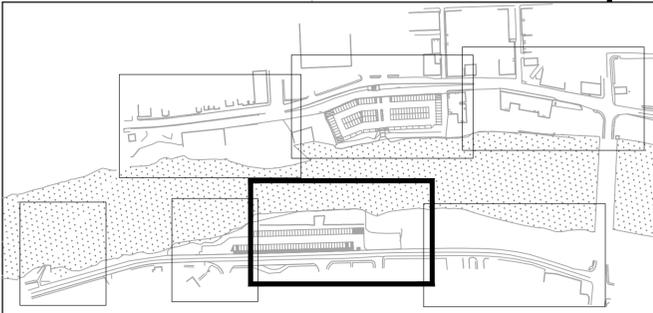
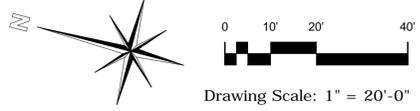
DRAWING NO.:  
**C-2.5**



MATCHLINE - DRAWING C-2.4

MATCHLINE - DRAWING C-2.6

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KEY MAP: 1" = 300'

Project Sponsors:

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Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

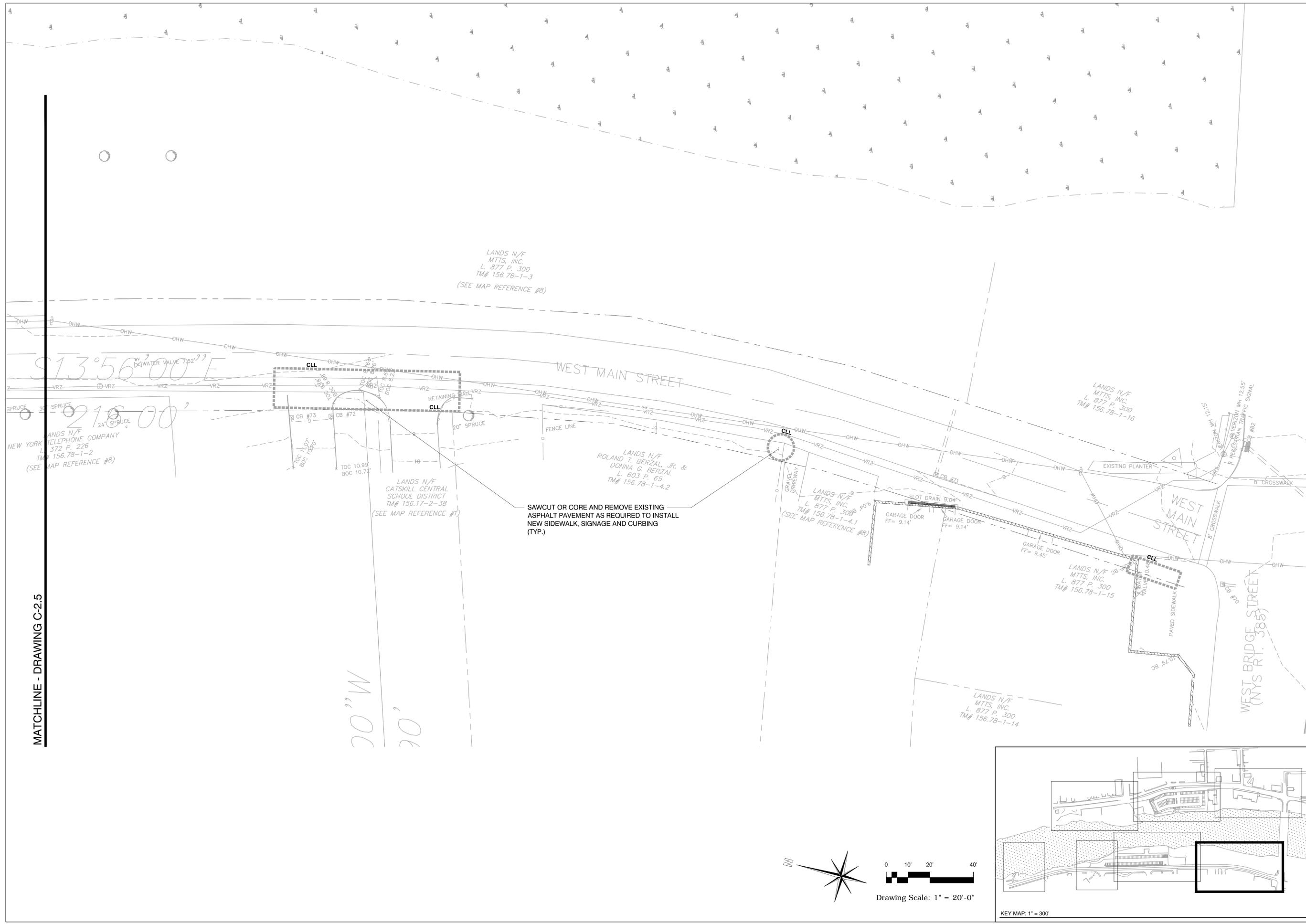
Sheet Title:  
**Demolition and Removals Plan - Area 6**

Drawing Log:

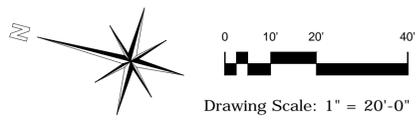
Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

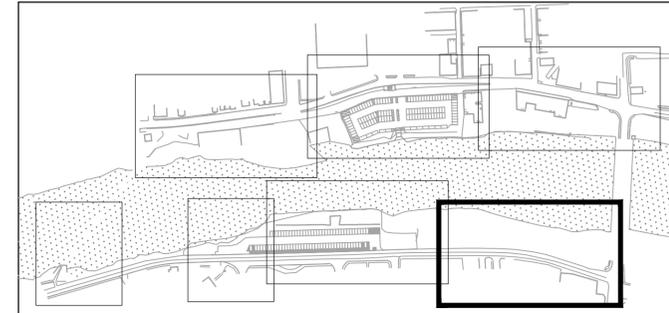
DRAWING NO.:  
**C-2.6**



MATCHLINE - DRAWING C-2.5



Drawing Scale: 1" = 20'-0"



KEY MAP: 1" = 300'

Project Sponsors:

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Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

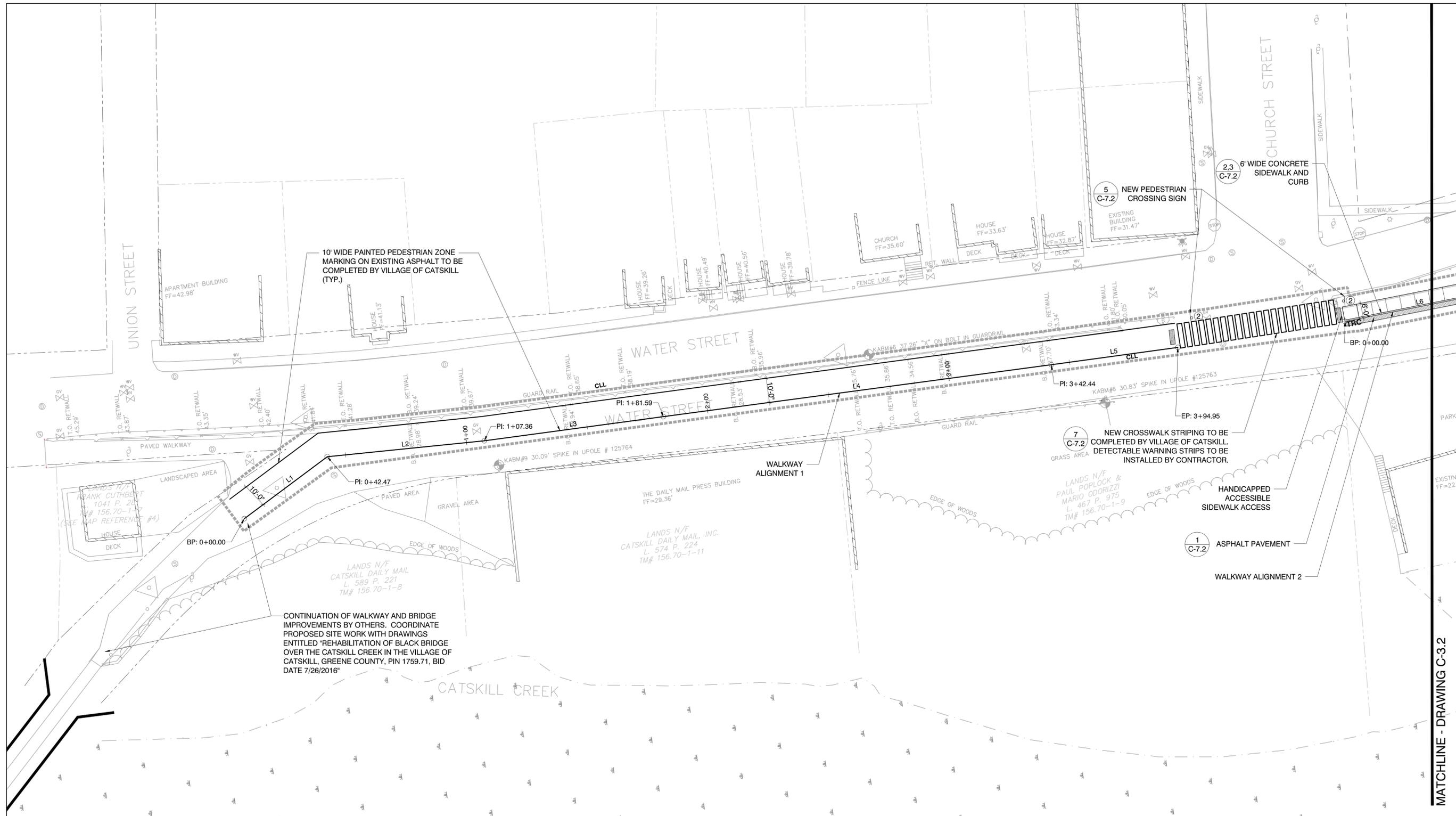
Sheet Title:  
**Layout, Materials and Landscaping Plan - Area 1**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE 11.11.2016
DRAWN BY:	- WDN
CHECKED BY:	- JET
FILE:	-
JOB. NO.:	- 14-001.1

DRAWING NO.:

**C-3.1**



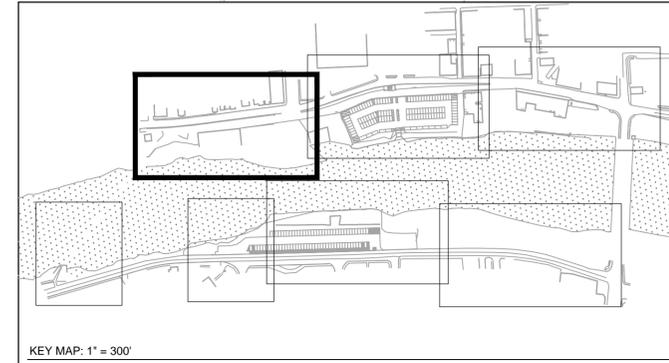
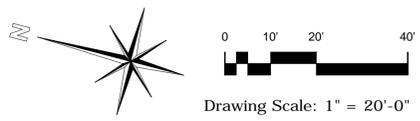
MATCHLINE - DRAWING C-3.2

**WALKWAY ALIGNMENT 1 - STRIPING**

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L1		42.47	S51° 18' 10.74"E	1234809.262, 663325.105	1234782.707, 663358.254
L2		64.89	S20° 23' 34.84"E	1234782.707, 663358.254	1234721.885, 663380.865
L3		74.22	S22° 17' 13.11"E	1234721.885, 663380.865	1234653.206, 663409.014
L4		160.85	S22° 12' 52.06"E	1234653.206, 663409.014	1234504.291, 663469.829
L5		52.51	S22° 24' 32.40"E	1234504.291, 663469.829	1234455.747, 663489.846

**WALKWAY ALIGNMENT 2 - FACE OF CURB**

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L6		52.24	S25° 48' 42.93"E	1234391.985, 663517.470	1234344.956, 663540.217



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Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

Sheet Title:

**Layout, Materials and Landscaping Plan - Area 2**

Drawing Log:

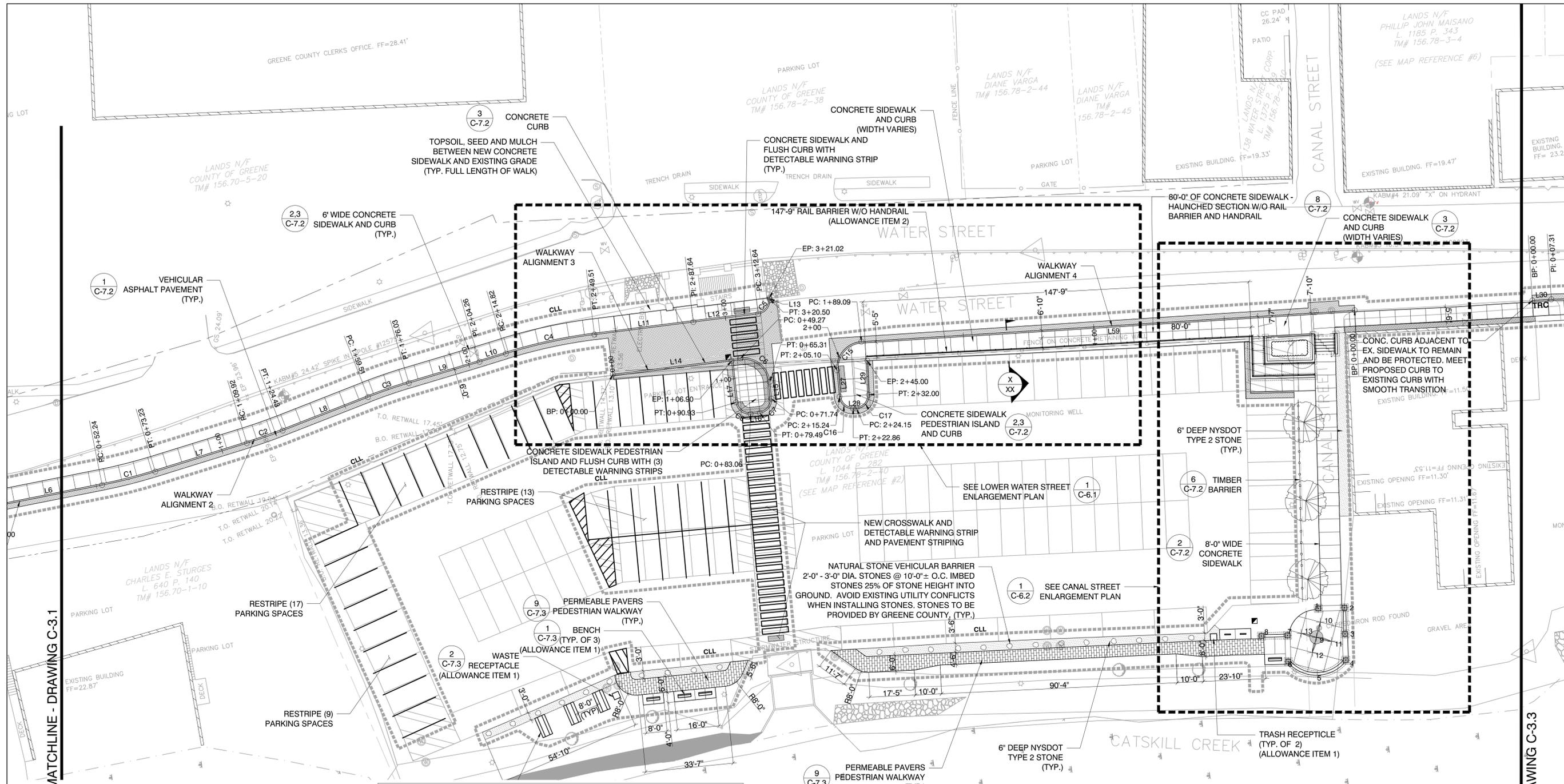
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Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE

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 DATE 11.11.2016

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 FILE:  
 JOB NO.: - 14-001.1

DRAWING NO.:

C-3.2



**WALKWAY ALIGNMENT 2 - FACE OF CURB**

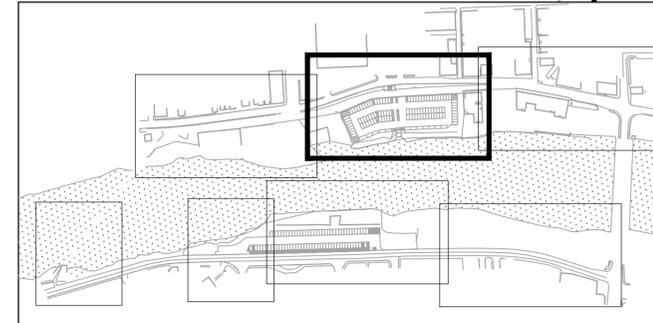
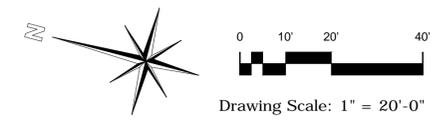
Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L6		52.24	S25° 48' 42.93"E	1234391.985, 663517.470	1234344.956, 663540.217
C1	200.00	20.99	S28° 49' 06.77"E	1234344.956, 663540.217	1234326.573, 663550.331
L7		36.69	S31° 49' 30.60"E	1234326.573, 663550.331	1234295.400, 663569.678
C2	200.00	14.51	S33° 54' 10.77"E	1234295.400, 663569.678	1234283.363, 663577.767
L8		35.08	S35° 58' 50.93"E	1234283.363, 663577.767	1234254.976, 663598.377
C3	200.00	16.52	S33° 36' 52.67"E	1234254.976, 663598.377	1234241.224, 663607.519
L9		28.23	S31° 14' 54.41"E	1234241.224, 663607.519	1234217.088, 663622.164
L10		10.56	S31° 45' 51.43"E	1234217.088, 663622.164	1234208.111, 663627.723
C4	200.00	34.70	S26° 47' 39.01"E	1234208.111, 663627.723	1234177.177, 663643.344
L11		38.13	S21° 49' 26.60"E	1234177.177, 663643.344	1234141.781, 663657.519
L12		25.00	S21° 49' 26.60"E	1234141.781, 663657.519	1234118.573, 663666.813
C5	5.00	7.85	S66° 49' 26.60"E	1234118.573, 663666.813	1234115.790, 663673.313
L13		0.52	N68° 10' 33.40"E	1234115.790, 663673.313	1234115.984, 663673.797

**WALKWAY ALIGNMENT 3 - FACE OF CURB**

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L14		49.27	S21° 49' 26.60"E	1234166.567, 663630.358	1234120.824, 663648.676
C6	10.00	16.04	S24° 06' 46.73"W	1234120.824, 663648.676	1234107.706, 663642.805
L15		6.43	S70° 03' 00.05"W	1234107.706, 663642.805	1234105.511, 663636.759
C7	5.00	7.75	N65° 31' 51.64"W	1234105.511, 663636.759	1234108.410, 663630.389
L16		3.57	N21° 06' 43.32"W	1234108.410, 663630.389	1234111.737, 663629.105
C8	5.00	7.87	N23° 59' 54.67"E	1234111.737, 663629.105	1234118.209, 663631.986
L17		15.97	N69° 06' 32.67"E	1234118.209, 663631.986	1234123.903, 663646.905

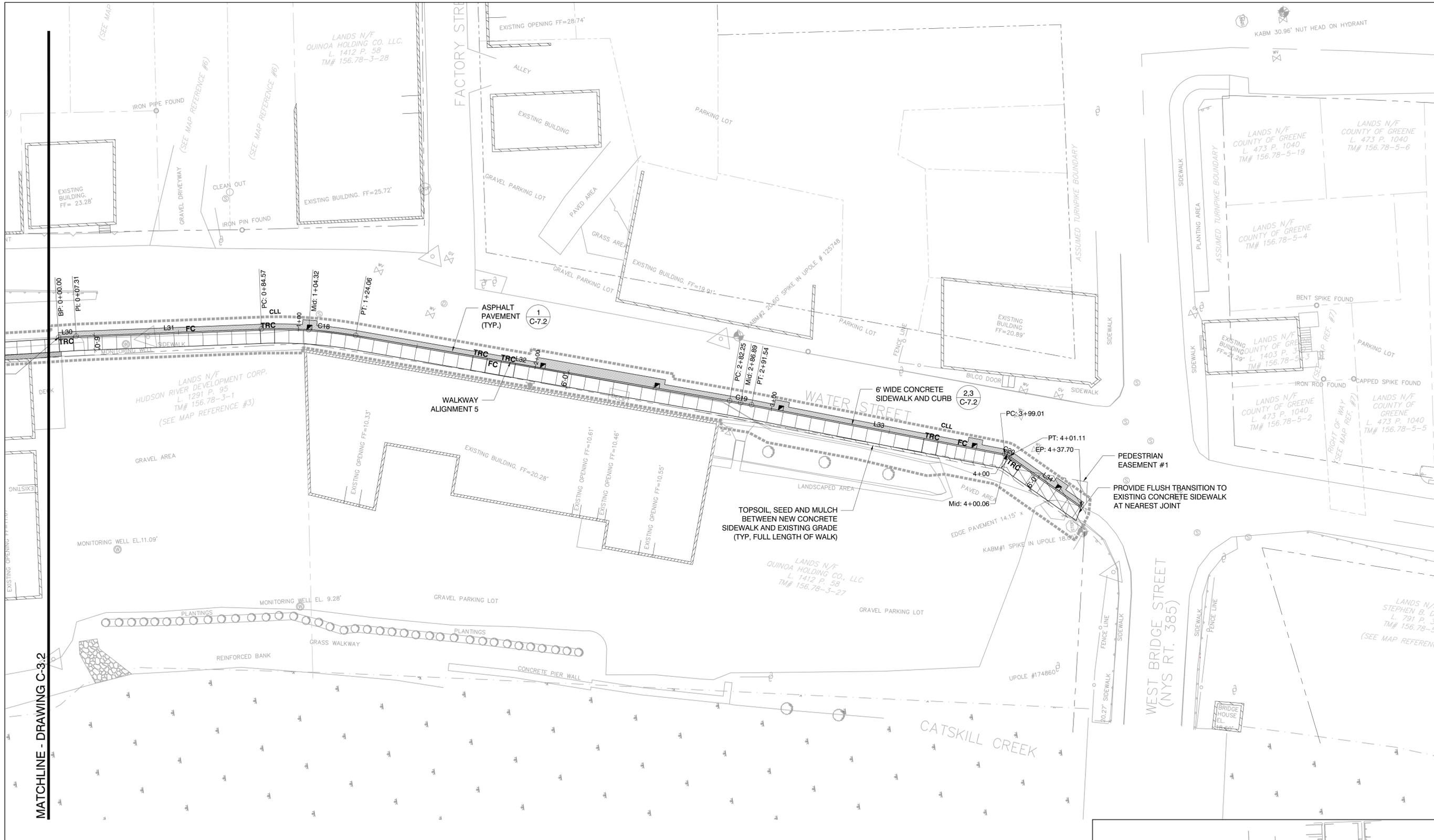
**WALKWAY ALIGNMENT 4 - FACE OF CURB**

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L59		189.09	N18° 15' 09.95"W	1233898.098, 663725.682	1234077.678, 663666.456
C15	10.00	16.00	N64° 06' 04.95"W	1234077.678, 663666.456	1234083.945, 663653.548
L27		10.14	S70° 03' 00.05"W	1234083.945, 663653.548	1234080.486, 663644.017
C16	5.00	7.62	S26° 23' 13.29"W	1234080.486, 663644.017	1234074.301, 663640.948
L28		1.29	S17° 16' 33.47"E	1234074.301, 663640.948	1234073.069, 663641.332
C17	5.00	7.85	S62° 16' 33.47"E	1234073.069, 663641.332	1234069.779, 663647.591
L29		13.00	N72° 43' 26.53"E	1234069.779, 663647.591	1234073.640, 663660.005



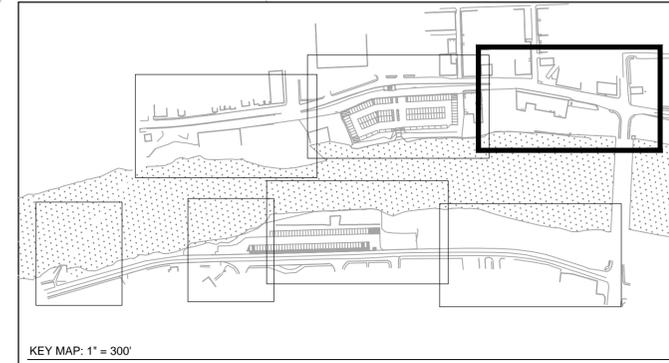
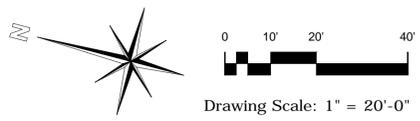
MATCHLINE - DRAWING C-3.1

MATCHLINE - DRAWING C-3.3



**WALKWAY ALIGNMENT 5 - FACE OF CURB**

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L30		7.31	S18° 16' 06.54"E	1233833.277, 663746.437	1233826.340, 663748.727
L31		77.26	S16° 49' 24.24"E	1233826.340, 663748.727	1233752.382, 663771.090
C18	187.00	39.49	S10° 46' 23.63"E	1233752.382, 663771.090	1233713.657, 663778.458
L32		158.19	S4° 43' 23.01"E	1233713.657, 663778.458	1233556.009, 663791.483
C19	487.50	9.29	S4° 10' 37.39"E	1233556.009, 663791.483	1233546.742, 663792.160
L33		107.47	S3° 37' 51.77"E	1233546.742, 663792.160	1233439.483, 663798.966
C20	5.00	2.10	S8° 23' 15.41"W	1233439.483, 663798.966	1233437.423, 663798.662
L34		36.59	S20° 24' 22.59"W	1233437.423, 663798.662	1233403.131, 663785.905



Lead Consultant:  
**ELAN**  
 PLANNING / DESIGN /  
 LANDSCAPE  
 ARCHITECTURE, PLLC  
 18 DIVISION STREET  
 STUDIO 304  
 SARATOGA SPRINGS  
 NEW YORK 12866

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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

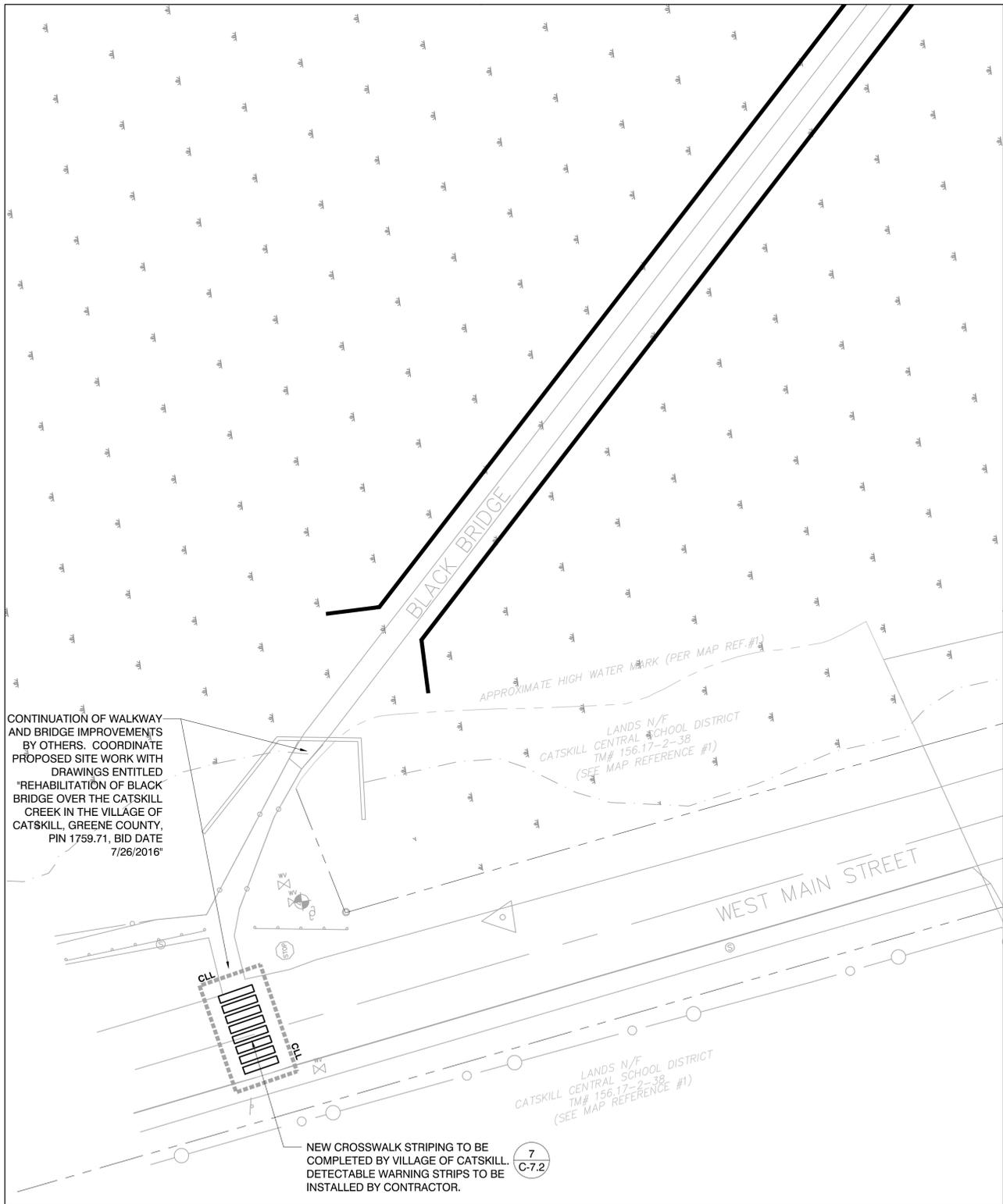
Sheet Title:  
**Layout, Materials and  
 Landscaping Plan -  
 Area 3**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB NO.: - 14-001.1

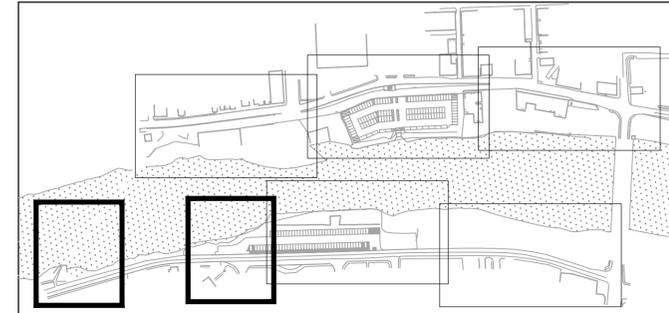
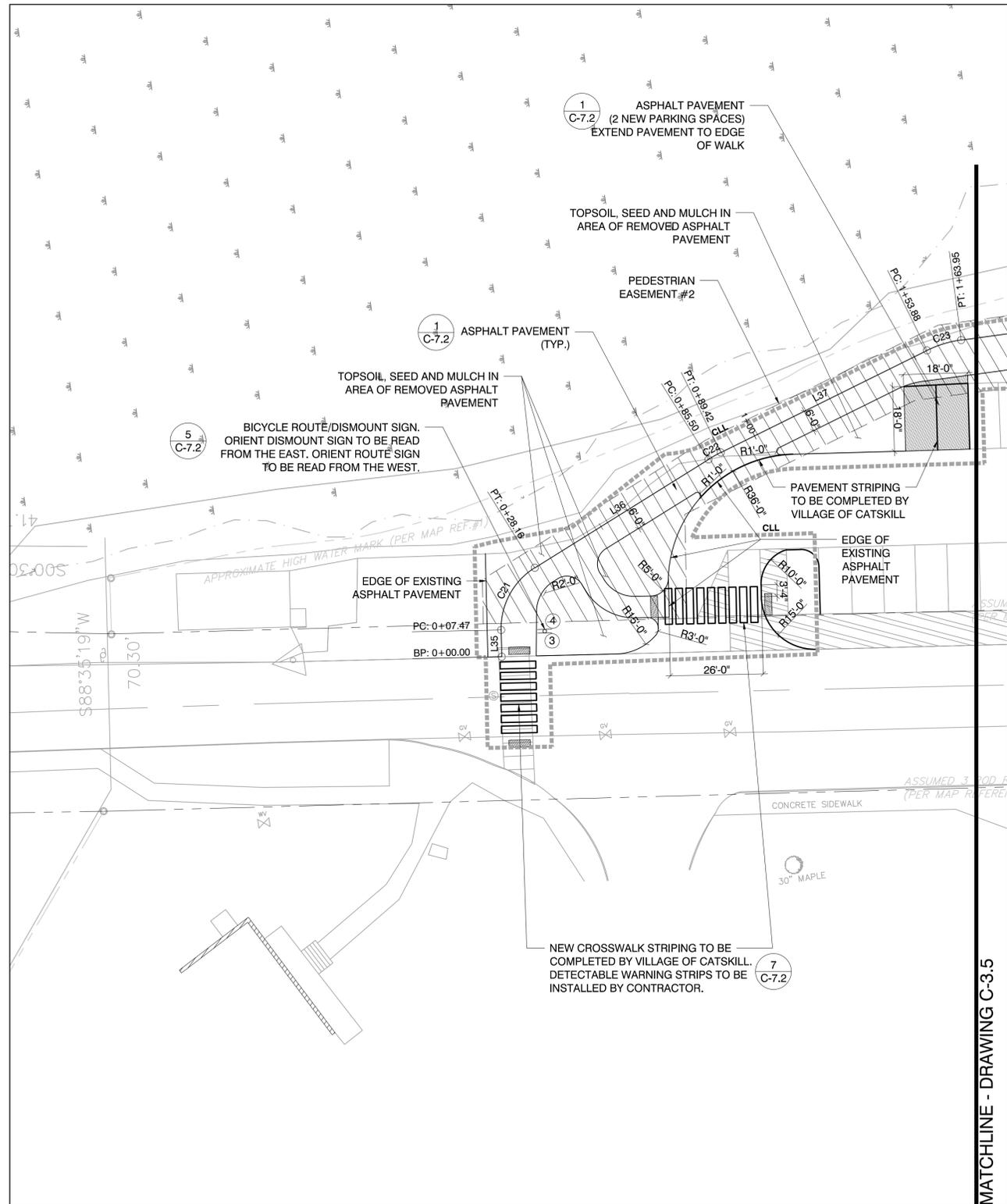
DRAWING NO.:  
**C-3.3**



CONTINUATION OF WALKWAY AND BRIDGE IMPROVEMENTS BY OTHERS. COORDINATE PROPOSED SITE WORK WITH DRAWINGS ENTITLED "REHABILITATION OF BLACK BRIDGE OVER THE CATSKILL CREEK IN THE VILLAGE OF CATSKILL, GREENE COUNTY, PIN 1759.71, BID DATE 7/26/2016"

**WALKWAY ALIGNMENT 6 - EDGE OF WALK**

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
L35		7.47	N74° 13' 04.88"E	1234506.003, 663012.352	1234508.035, 663019.541
C21	20.00	20.69	S76° 08' 53.77"E	1234508.035, 663019.541	1234503.300, 663038.744
L36		57.34	S46° 30' 52.42"E	1234503.300, 663038.744	1234463.840, 663080.346
C22	40.00	3.92	S43° 42' 18.44"E	1234463.840, 663080.346	1234461.006, 663083.056
L37		64.46	S40° 53' 44.47"E	1234461.006, 663083.056	1234412.280, 663125.257
C23	31.00	10.06	S31° 35' 42.82"E	1234412.280, 663125.257	1234403.745, 663130.507



Lead Consultant:  
**ELAN**  
 PLANNING / DESIGN /  
 LANDSCAPE  
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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Layout, Materials and  
 Landscaping Plan -  
 Area 4**

Drawing Log:  
 Rev. 05 \_\_\_\_\_  
 DATE \_\_\_\_\_  
 Rev. 04 \_\_\_\_\_  
 DATE \_\_\_\_\_  
 Rev. 03 \_\_\_\_\_  
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 Rev. 02 \_\_\_\_\_  
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 Rev. 01 \_\_\_\_\_  
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 ISSUED FOR BID  
 DATE 11.11.2016

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 FILE: \_\_\_\_\_  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-3.4**

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Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

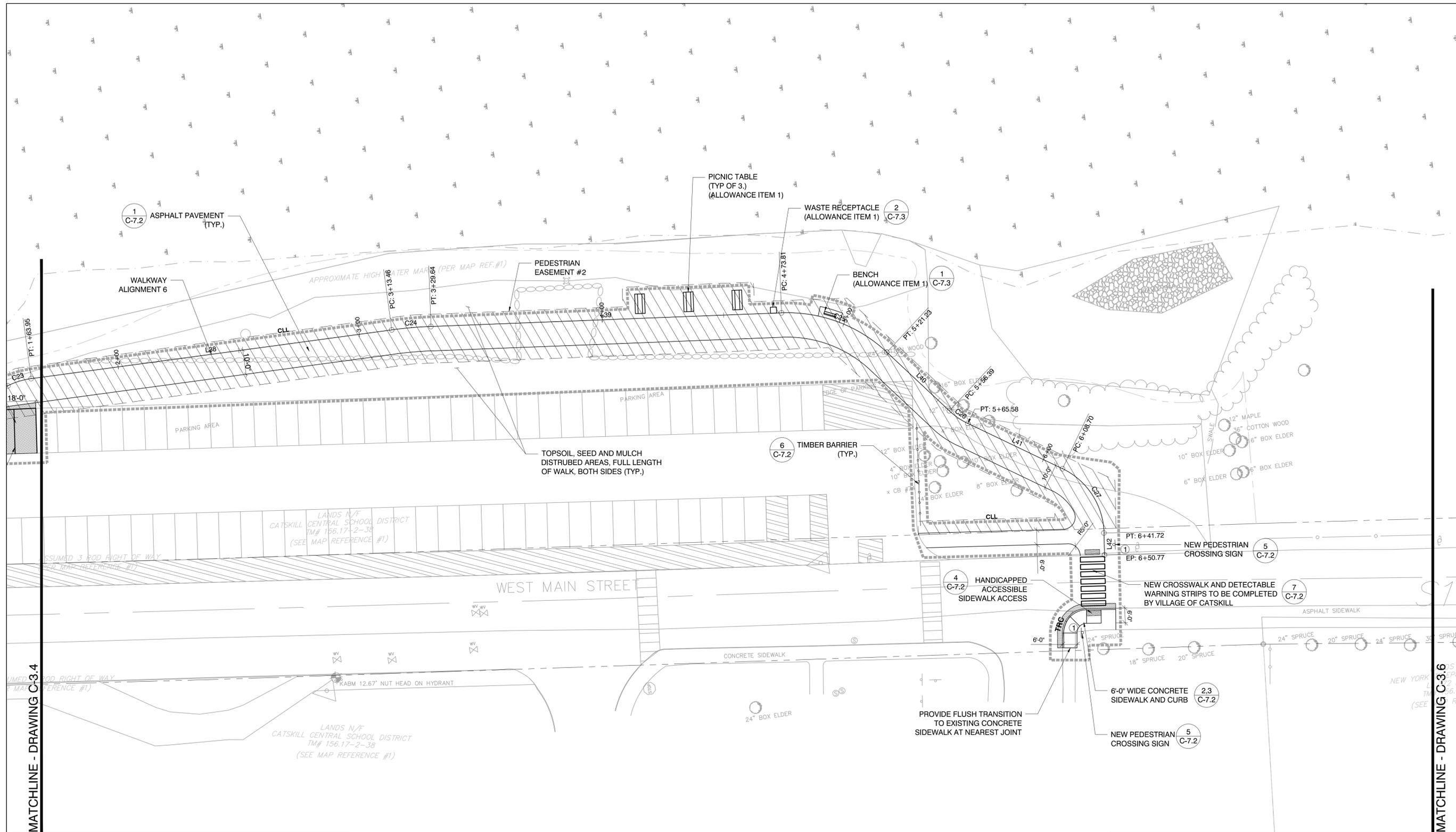
Sheet Title:  
**Layout, Materials and Landscaping Plan - Area 5**

Drawing Log:

Rev. 05	DATE
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Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
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 FILE:  
 JOB NO.: - 14-001.1

DRAWING NO.:  
**C-3.5**

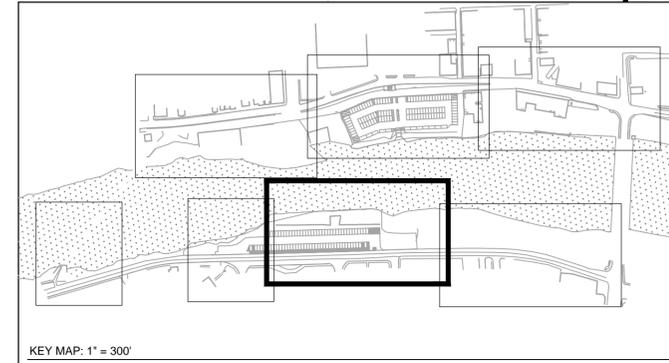
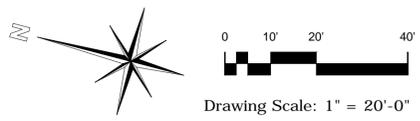


MATCHLINE - DRAWING C-3.4

MATCHLINE - DRAWING C-3.6

WALKWAY ALIGNMENT 6 - EDGE OF WALK

Number	Radius	Length	Line/Chord Direction	Begin (Northing, Easting)	End (Northing, Easting)
C23	31.00	10.06	S31° 35' 42.82"E	1234412.280, 663125.257	1234403.745, 663130.507
L38		149.52	S22° 17' 41.17"E	1234403.745, 663130.507	1234265.406, 663187.229
C24	170.00	16.18	S19° 34' 08.16"E	1234265.406, 663187.229	1234250.171, 663192.645
L39		144.17	S16° 50' 35.15"E	1234250.171, 663192.645	1234112.185, 663234.418
C25	60.00	47.42	S5° 47' 55.92"W	1234112.185, 663234.418	1234066.225, 663229.751
L40		35.16	S28° 26' 26.99"W	1234066.225, 663229.751	1234035.305, 663213.005
C26	30.00	9.19	S19° 40' 02.95"W	1234035.305, 663213.005	1234026.688, 663209.924
L41		43.12	S10° 53' 38.90"W	1234026.688, 663209.924	1233984.342, 663201.774
C27	30.00	33.02	S42° 25' 26.16"W	1233984.342, 663201.774	1233961.180, 663180.607
L42		9.05	S73° 57' 13.42"W	1233961.180, 663180.607	1233958.680, 663171.914





Project Sponsors:

Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

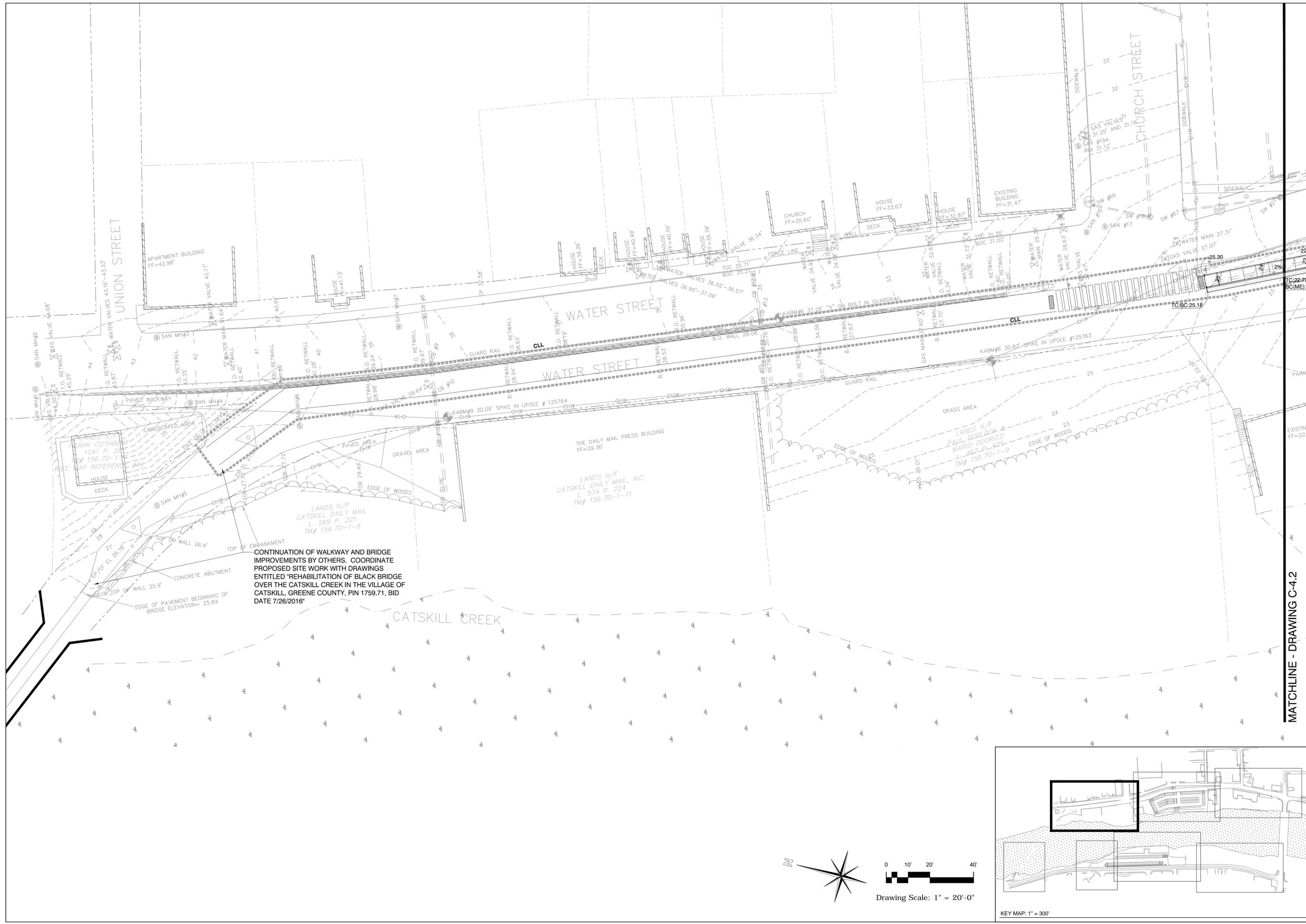
Sheet Title:  
**Grading, Drainage and  
 Utilities Plan -  
 Area 1**

Drawing Log:

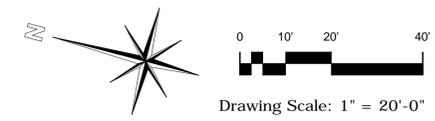
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Rev. 04	DATE
Rev. 03	DATE
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Rev. 01	DATE
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 JOB. NO.: - 14-001.1

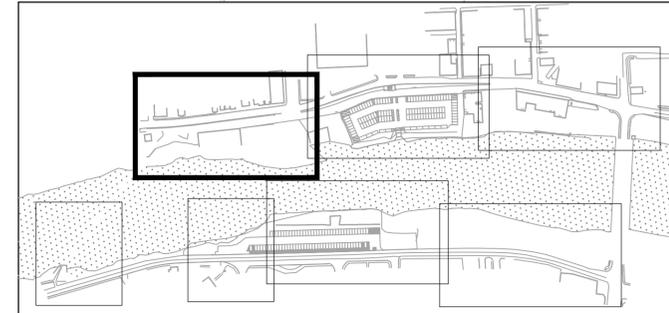
DRAWING NO.:  
**C-4.1**



CONTINUATION OF WALKWAY AND BRIDGE  
 IMPROVEMENTS BY OTHERS. COORDINATE  
 PROPOSED SITE WORK WITH DRAWINGS  
 ENTITLED 'REHABILITATION OF BLACK BRIDGE  
 OVER THE CATSKILL CREEK IN THE VILLAGE OF  
 CATSKILL, GREENE COUNTY, PIN 1759.71, BID  
 DATE 7/26/2016'

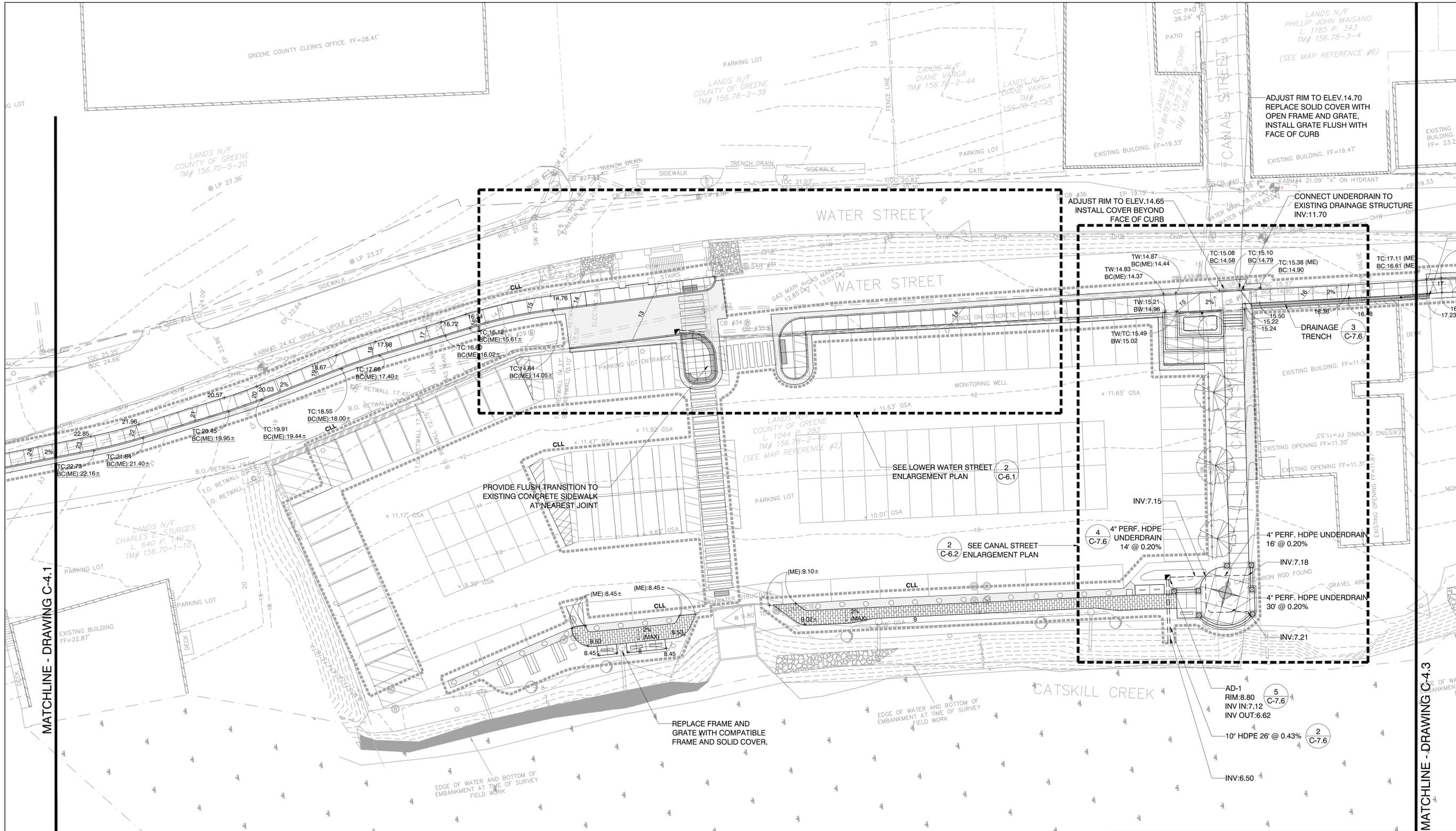


Drawing Scale: 1" = 20'-0"



KEY MAP: 1" = 300'

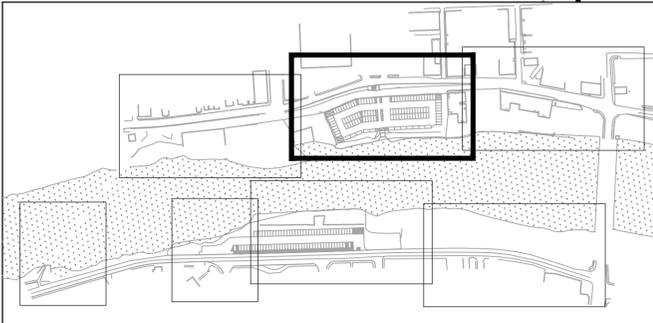
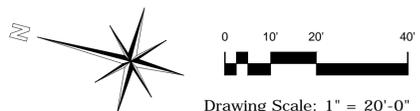
MATCHLINE - DRAWING C-4.2



MATCHLINE - DRAWING C-4.1

MATCHLINE - DRAWING C-4.3

**NOTE:**  
 1. WHERE A PROPOSED STORM STRUCTURE IS SHOWN REPLACING AN EXISTING STRUCTURE TO BE REMOVED, CONTRACTOR SHALL FIELD VERIFY SIZE, INVERT AND QUANTITY OF ALL EXISTING STORM PIPE PENETRATIONS, AND PROVIDE SUITABLE CONNECTIONS, CONNECTING THE EXISTING PIPING TO REMAIN, TO THE PROPOSED REPLACEMENT STRUCTURE.



Lead Consultant:  
**ELAN**  
 PLANNING / DESIGN /  
 LANDSCAPE  
 ARCHITECTURE , PLLC  
 18 DIVISION STREET  
 STUDIO 304  
 SARATOGA SPRINGS  
 NEW YORK 12866

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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Grading, Drainage and  
 Utilities Plan -  
 Area 2**

Drawing Log:	
Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
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FILE:	
JOB. NO.:	- 14-001.1

DRAWING NO.:  
**C-4.2**

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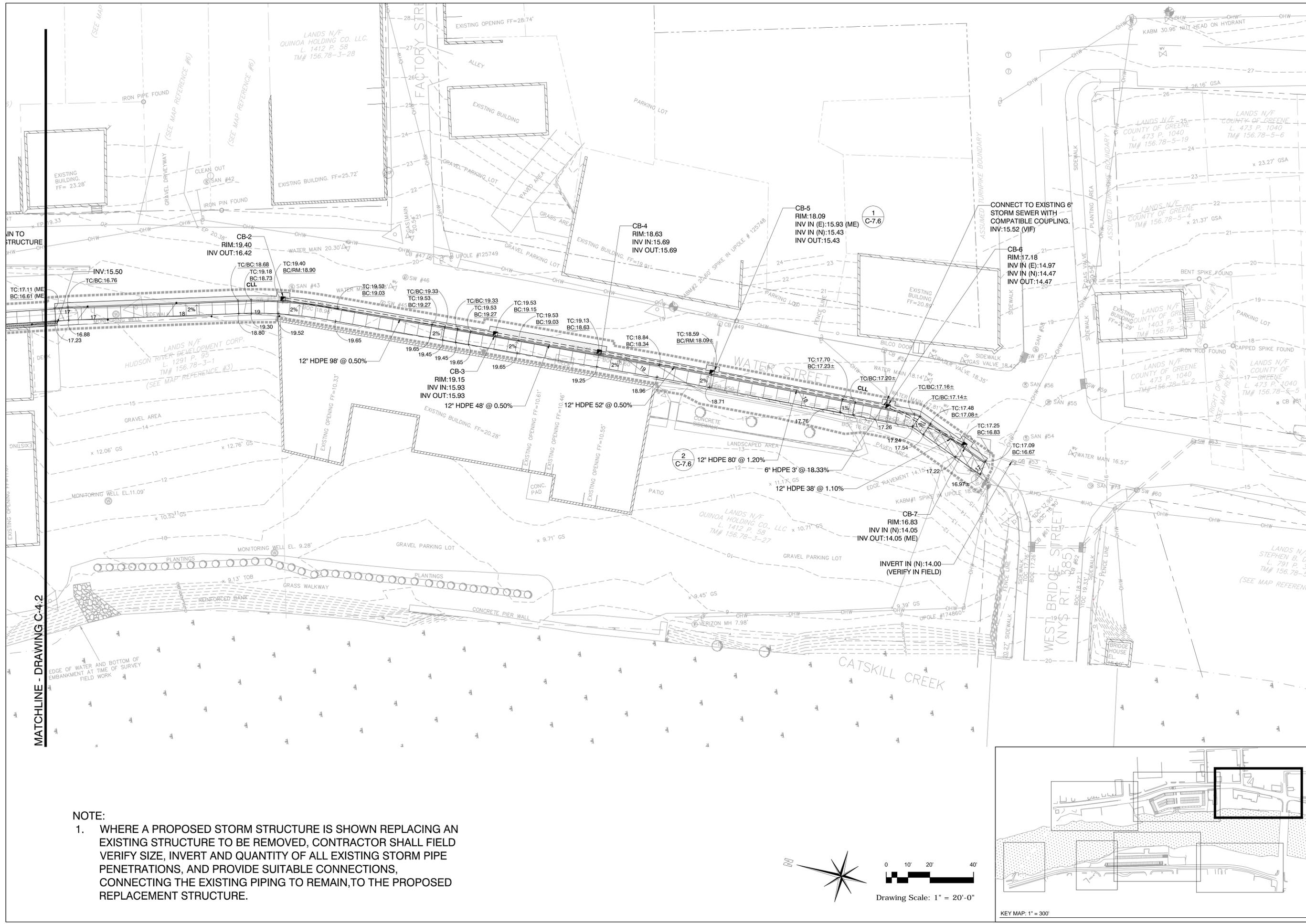
Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Grading, Drainage and  
 Utilities Plan -  
 Area 3**

Drawing Log:

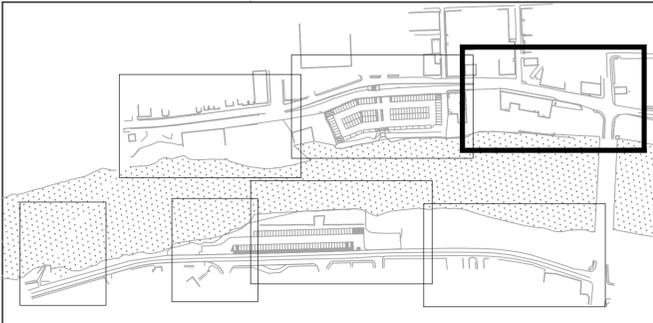
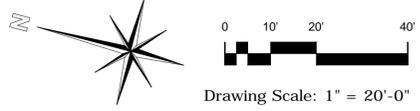
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DATE	
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FILE:	
JOB. NO.:	- 14-001.1
DRAWING NO.:	

C-4.3



MATCHLINE - DRAWING C-4.2

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KEY MAP: 1" = 300'



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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

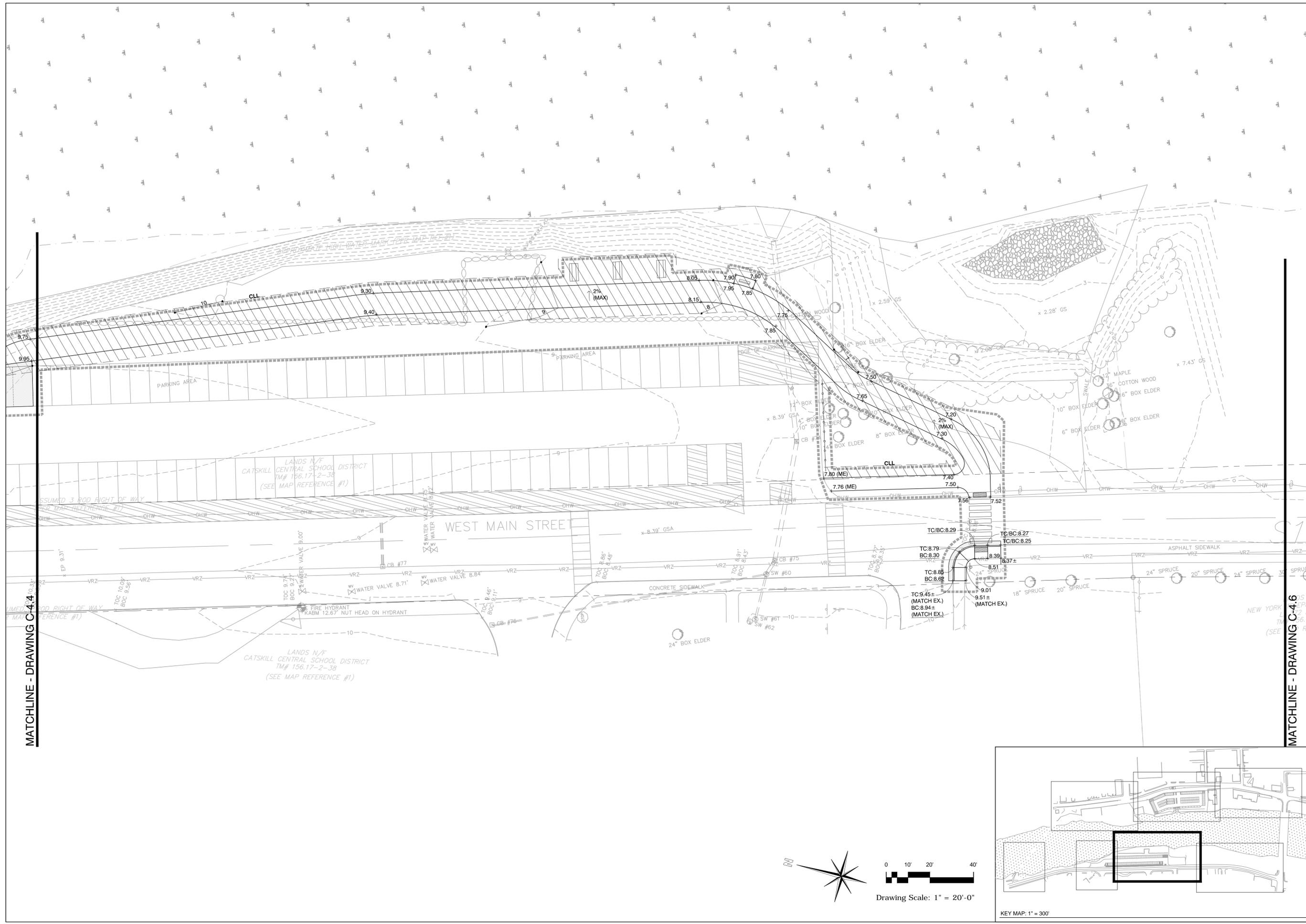
Sheet Title:  
**Grading, Drainage and  
 Utilities Plan -  
 Area 5**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE
11.11.2016	

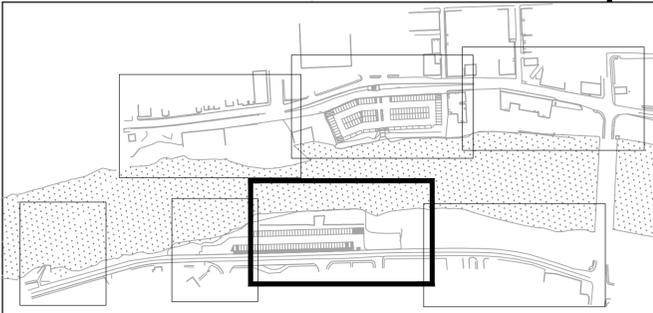
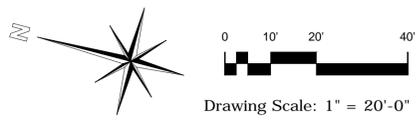
DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-4.5**



MATCHLINE - DRAWING C-4.4

MATCHLINE - DRAWING C-4.6



KEY MAP: 1" = 300'

Project Sponsors:

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Project Title:  
**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

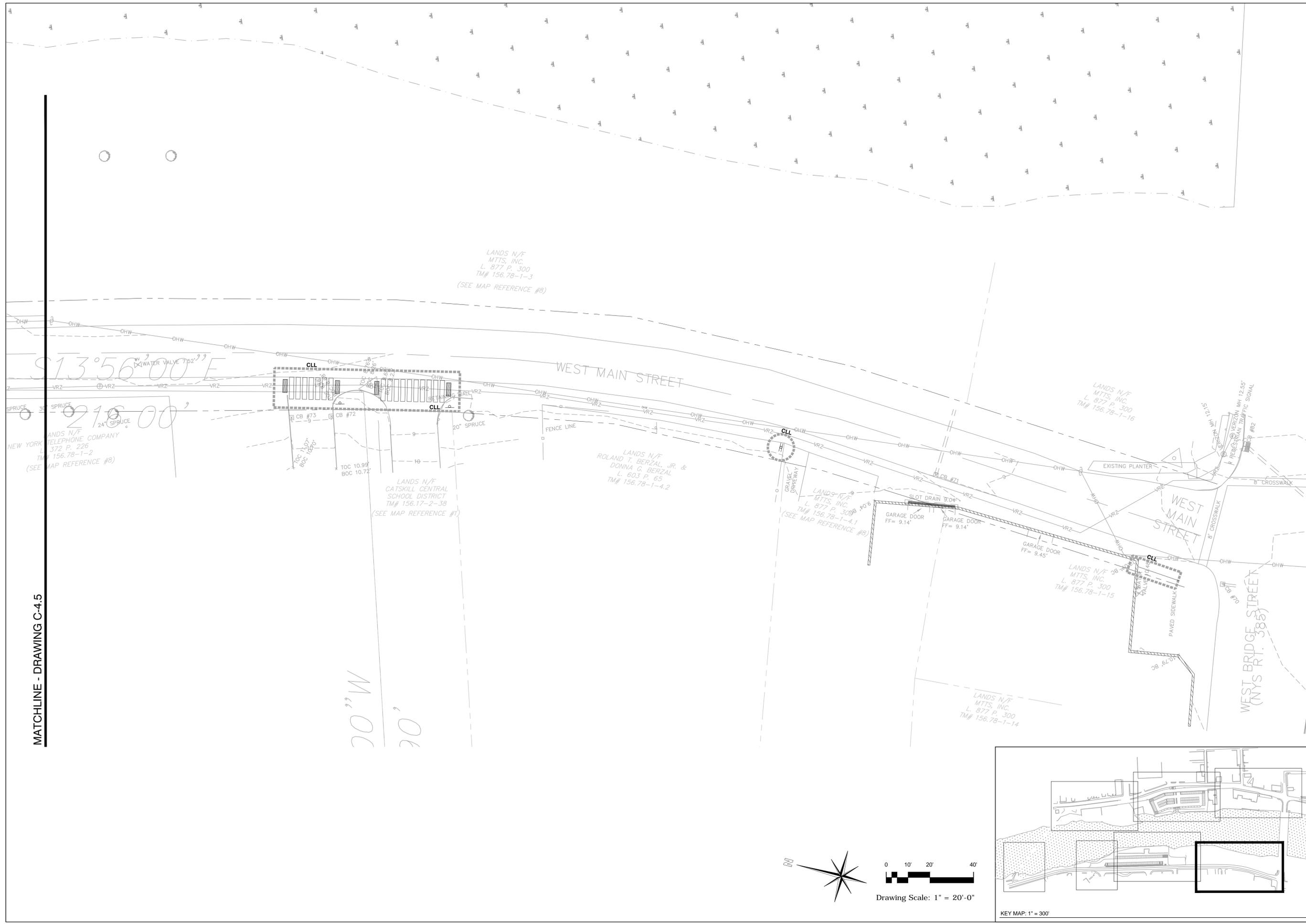
Sheet Title:  
**Grading, Drainage and Utilities Plan - Area 6**

Drawing Log:

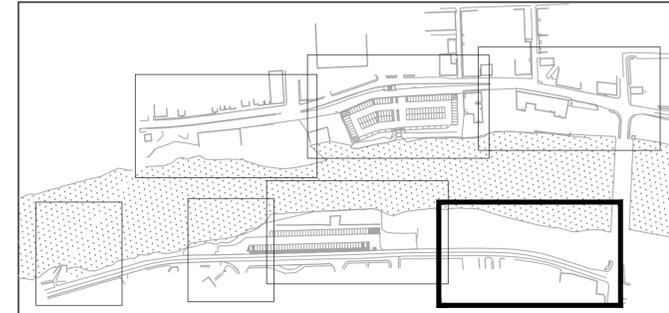
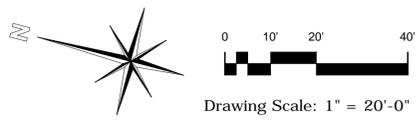
Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

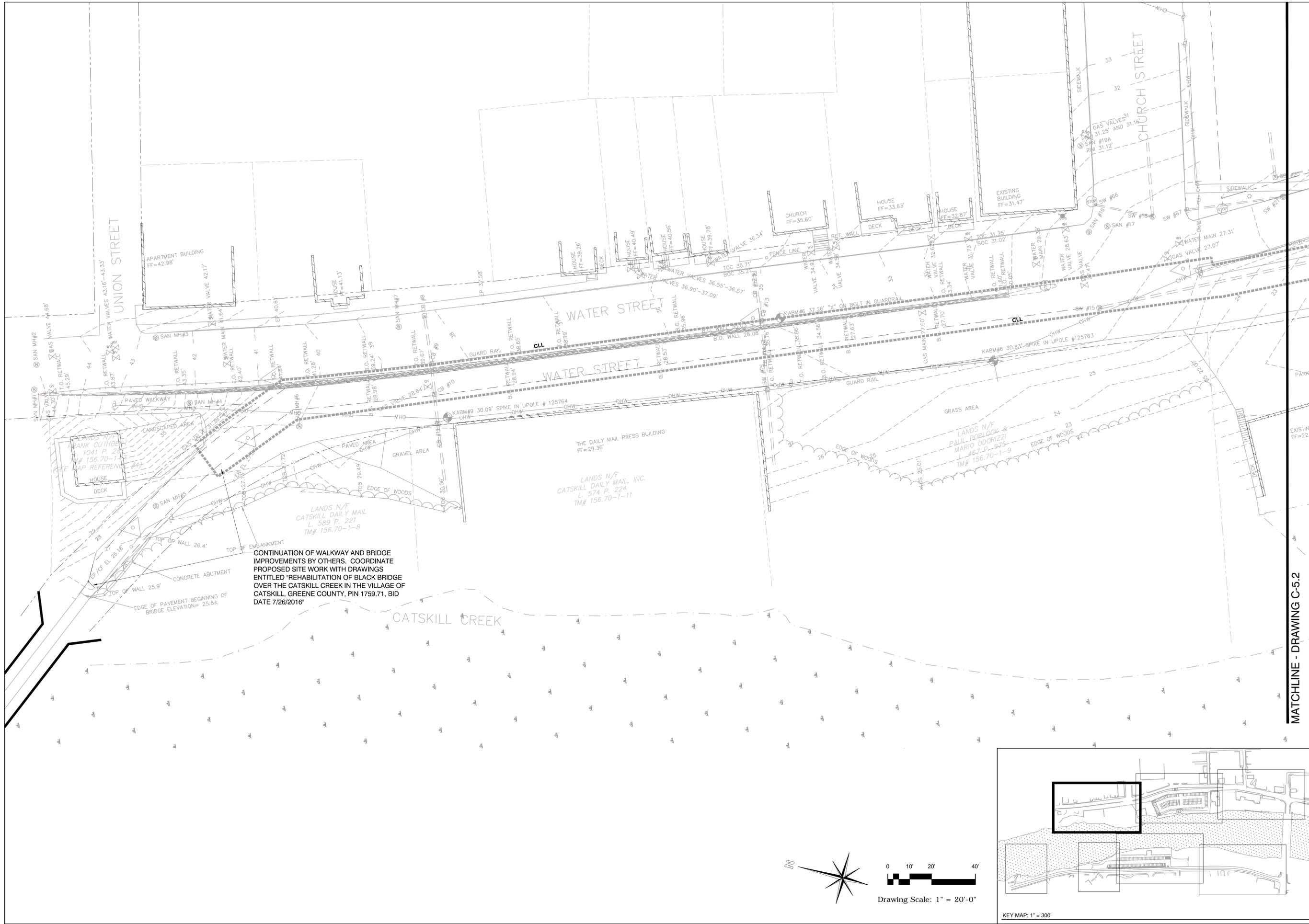
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 JOB NO.: - 14-001.1

DRAWING NO.:  
**C-4.6**

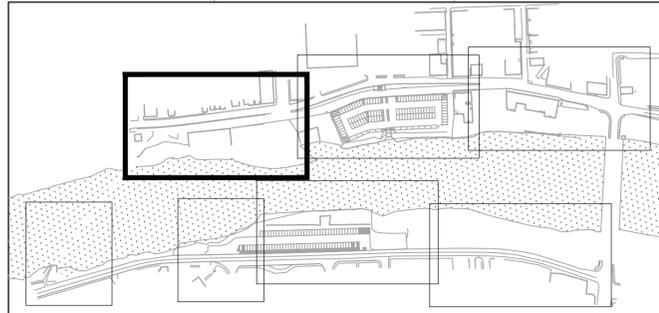
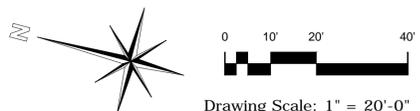


MATCHLINE - DRAWING C-4.5





CONTINUATION OF WALKWAY AND BRIDGE IMPROVEMENTS BY OTHERS. COORDINATE PROPOSED SITE WORK WITH DRAWINGS ENTITLED "REHABILITATION OF BLACK BRIDGE OVER THE CATSKILL CREEK IN THE VILLAGE OF CATSKILL, GREENE COUNTY, PIN 1759.71, BID DATE 7/26/2016"



MATCHLINE - DRAWING C-5.2

Lead Consultant:  
**ELAN**  
 PLANNING / DESIGN /  
 LANDSCAPE  
 ARCHITECTURE, PLLC  
 18 DIVISION STREET  
 STUDIO 304  
 SARATOGA SPRINGS  
 NEW YORK 12866

Project Sponsors:

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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

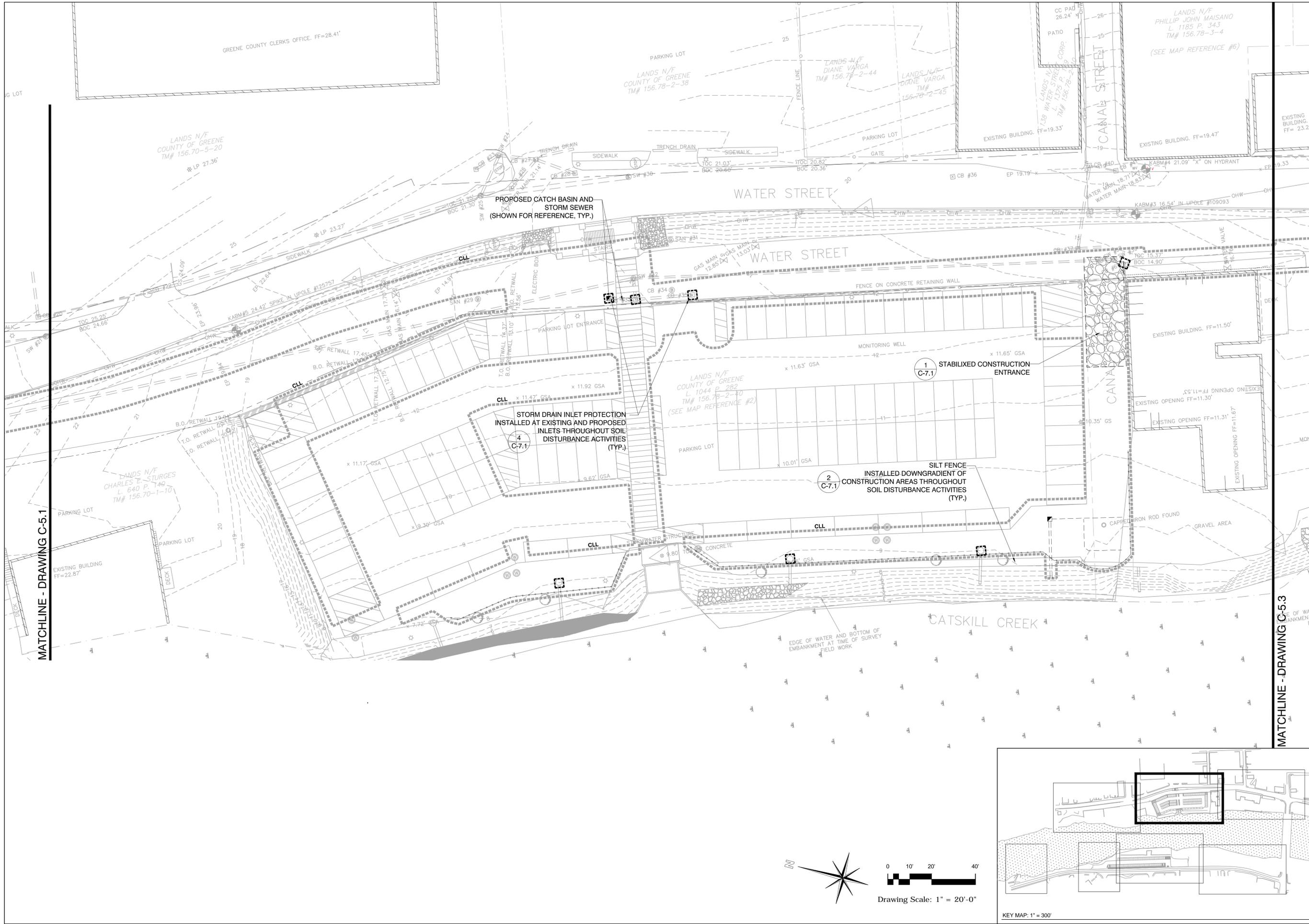
Sheet Title:  
**Erosion and Sediment  
 Control Plan -  
 Area 1**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE
11.11.2016	

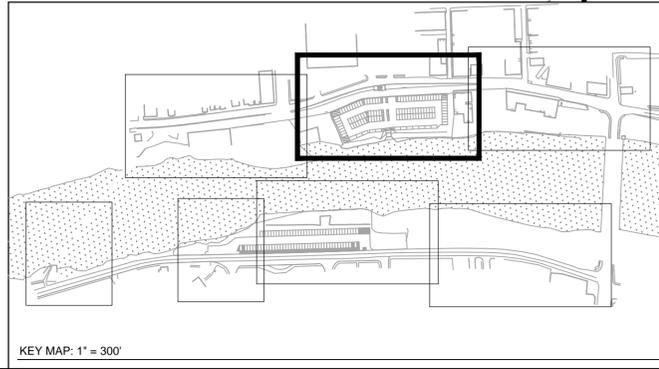
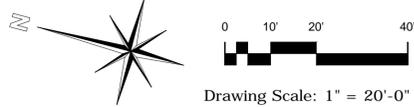
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 CHECKED BY: - JET  
 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-5.1**



MATCHLINE - DRAWING C-5.1

MATCHLINE - DRAWING C-5.3



Lead Consultant:  
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 PLANNING / DESIGN /  
 LANDSCAPE  
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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Erosion and Sediment  
 Control Plan -  
 Area 2**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

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 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-5.2**

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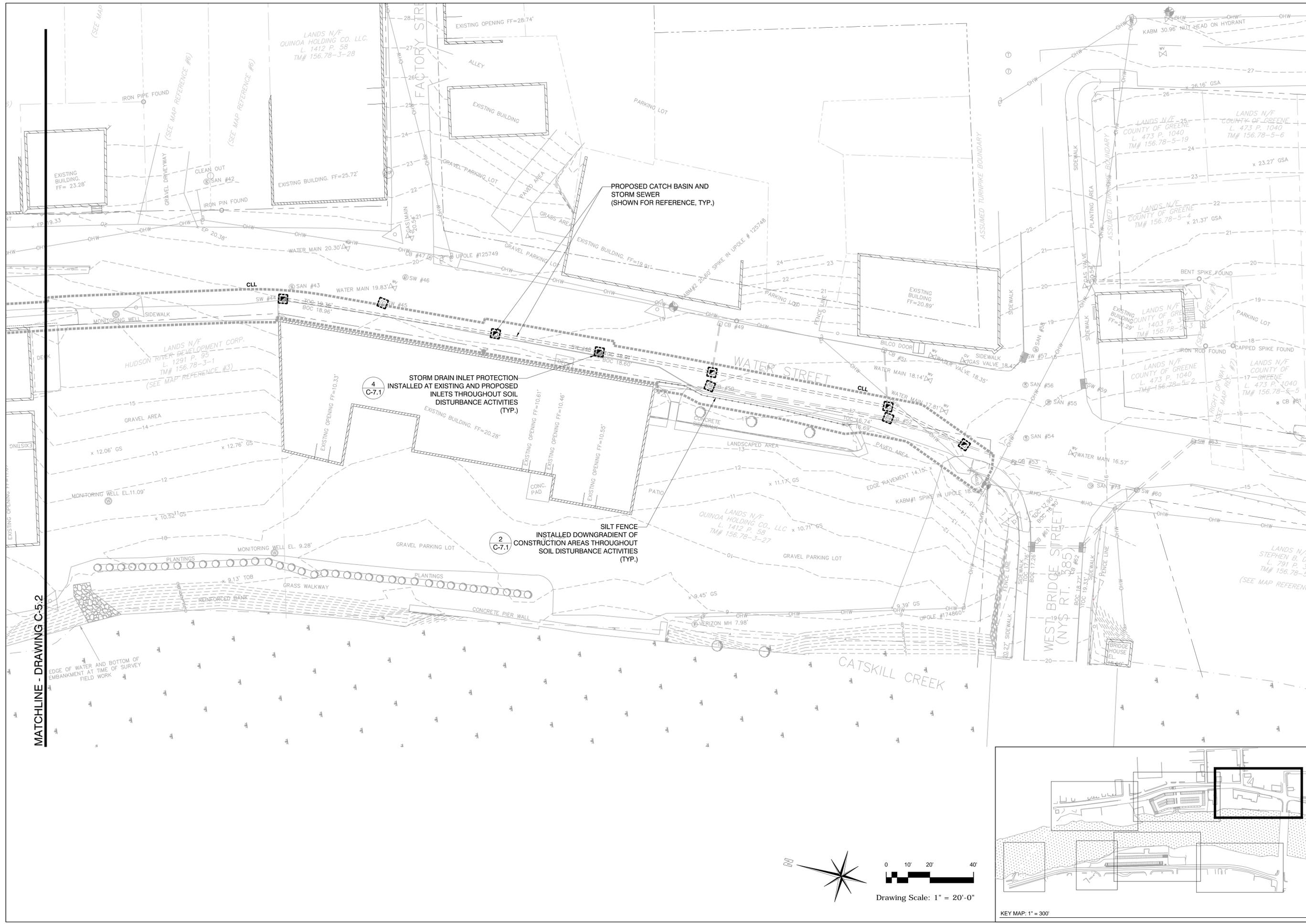
Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Erosion and Sediment  
 Control Plan -  
 Area 3**

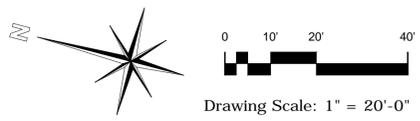
Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	DATE
11.11.2016	
DRAWN BY:	- WDN
CHECKED BY:	- JET
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JOB. NO.:	- 14-001.1
DRAWING NO.:	

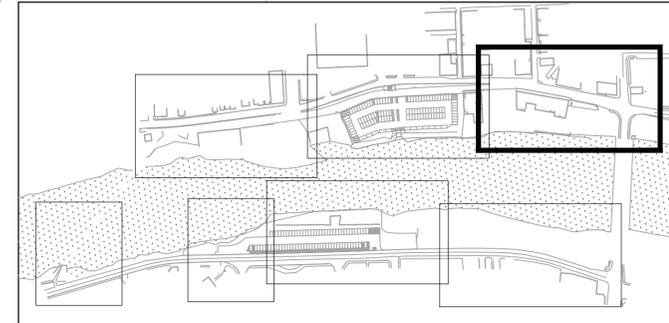
C-5.3



MATCHLINE - DRAWING C-5.2



Drawing Scale: 1" = 20'-0"



KEY MAP: 1" = 300'

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 ALTERATION, THE SIGNATURE AND DATE.

Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

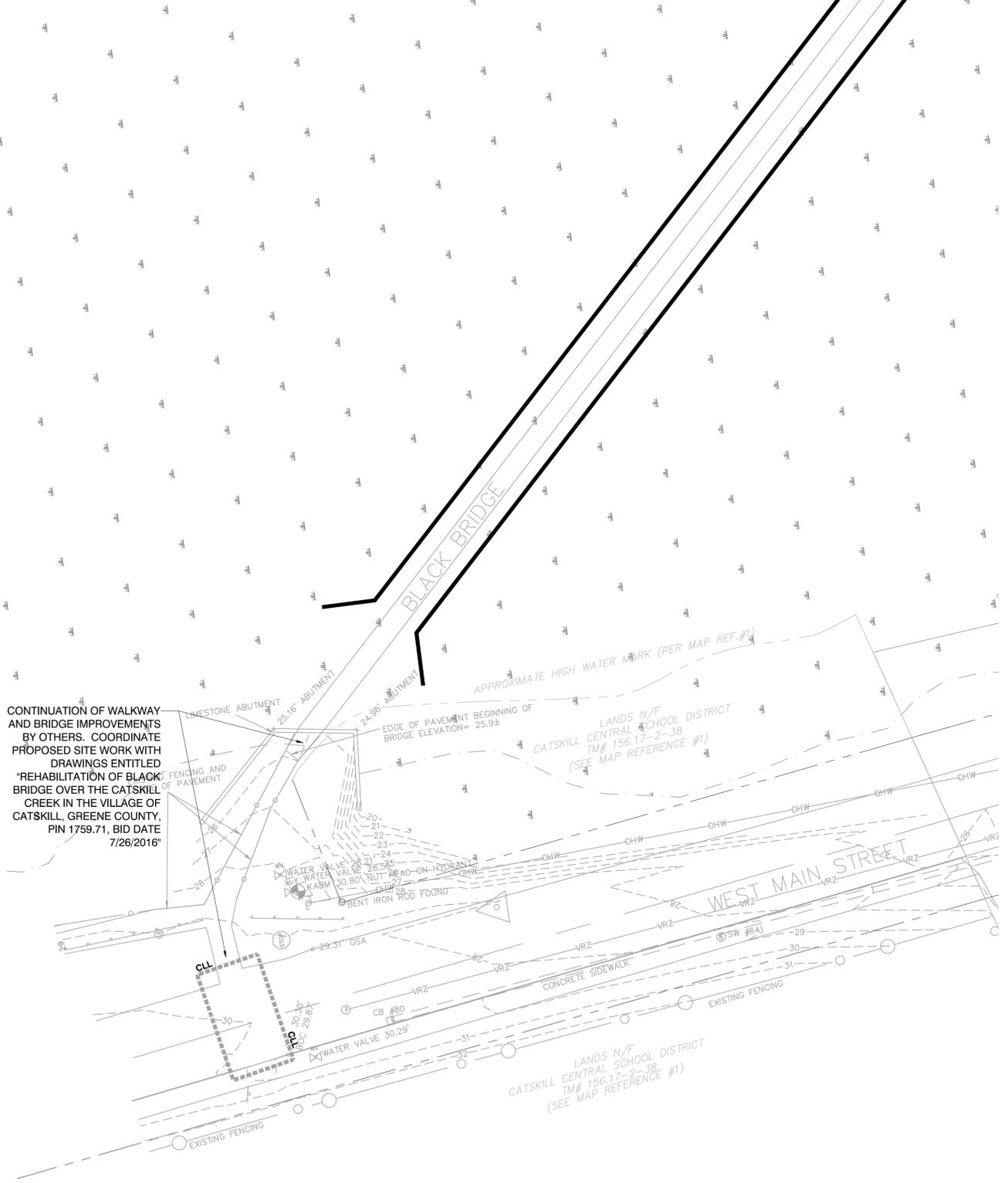
Sheet Title:  
**Erosion and Sediment  
 Control Plan -  
 Area 4**

Drawing Log:

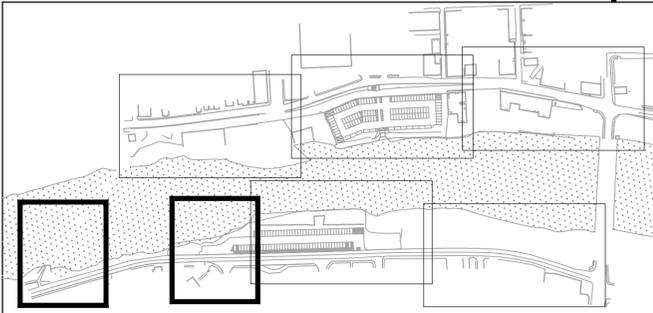
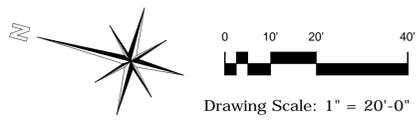
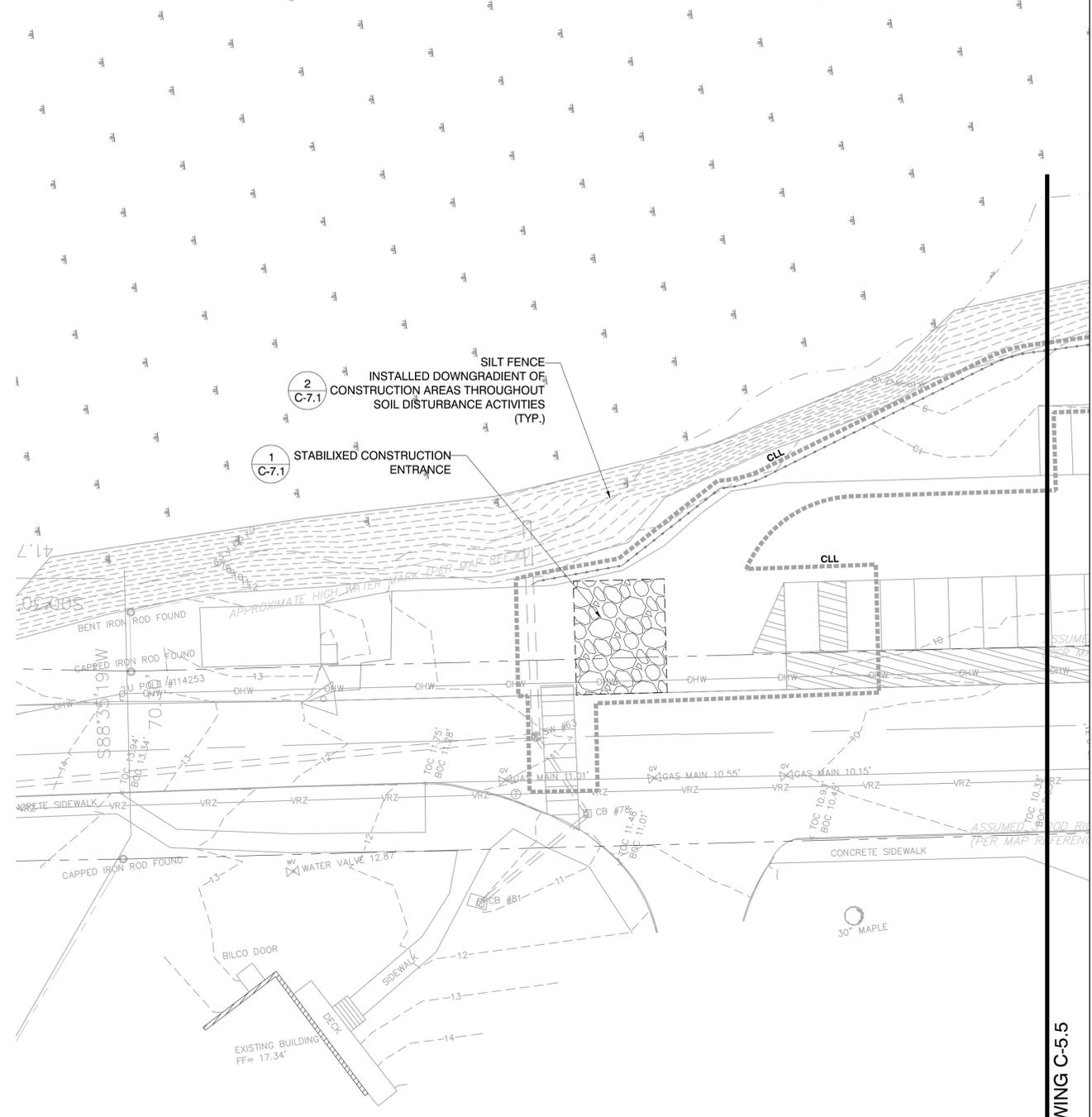
Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

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 FILE:  
 JOB. NO.: - 14-001.1

DRAWING NO.:  
**C-5.4**



CONTINUATION OF WALKWAY  
 AND BRIDGE IMPROVEMENTS  
 BY OTHERS. COORDINATE  
 PROPOSED SITE WORK WITH  
 DRAWINGS ENTITLED  
 "REHABILITATION OF BLACK  
 BRIDGE OVER THE CATSKILL  
 CREEK IN THE VILLAGE OF  
 CATSKILL, GREENE COUNTY,  
 PIN 1759.71, BID DATE  
 7/26/2016"

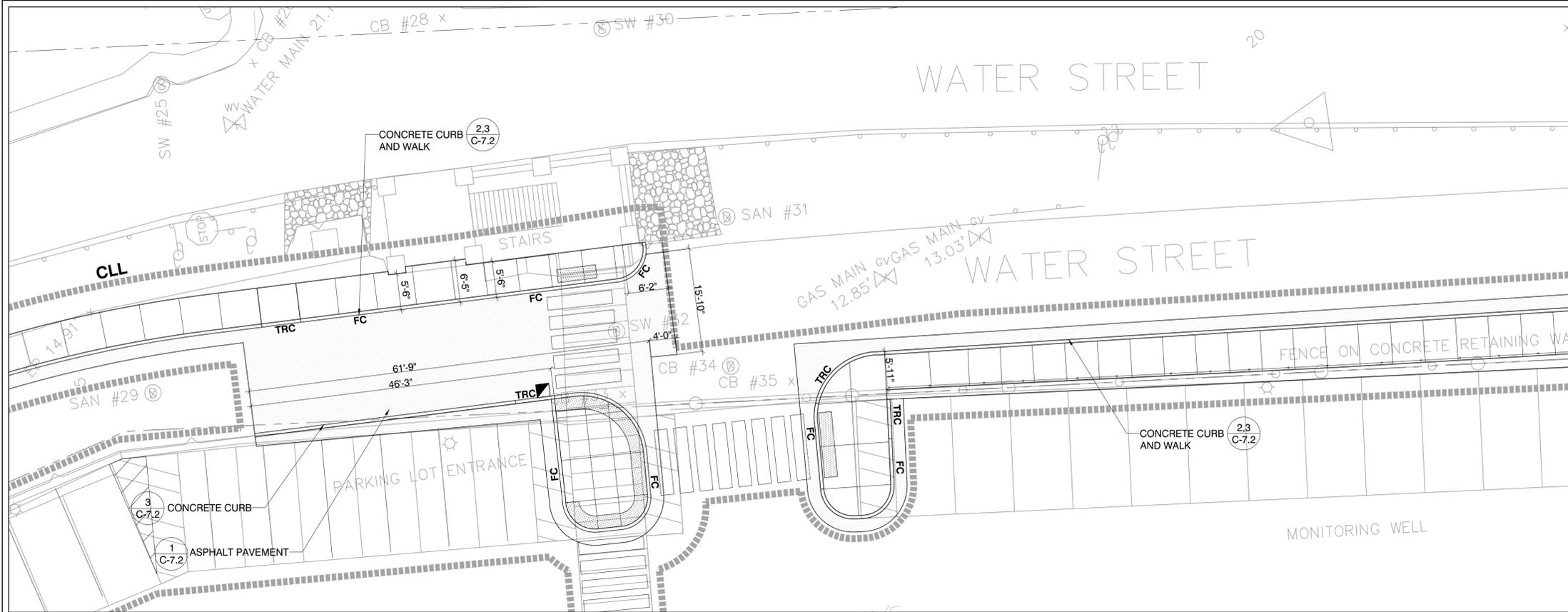


KEY MAP: 1" = 300'

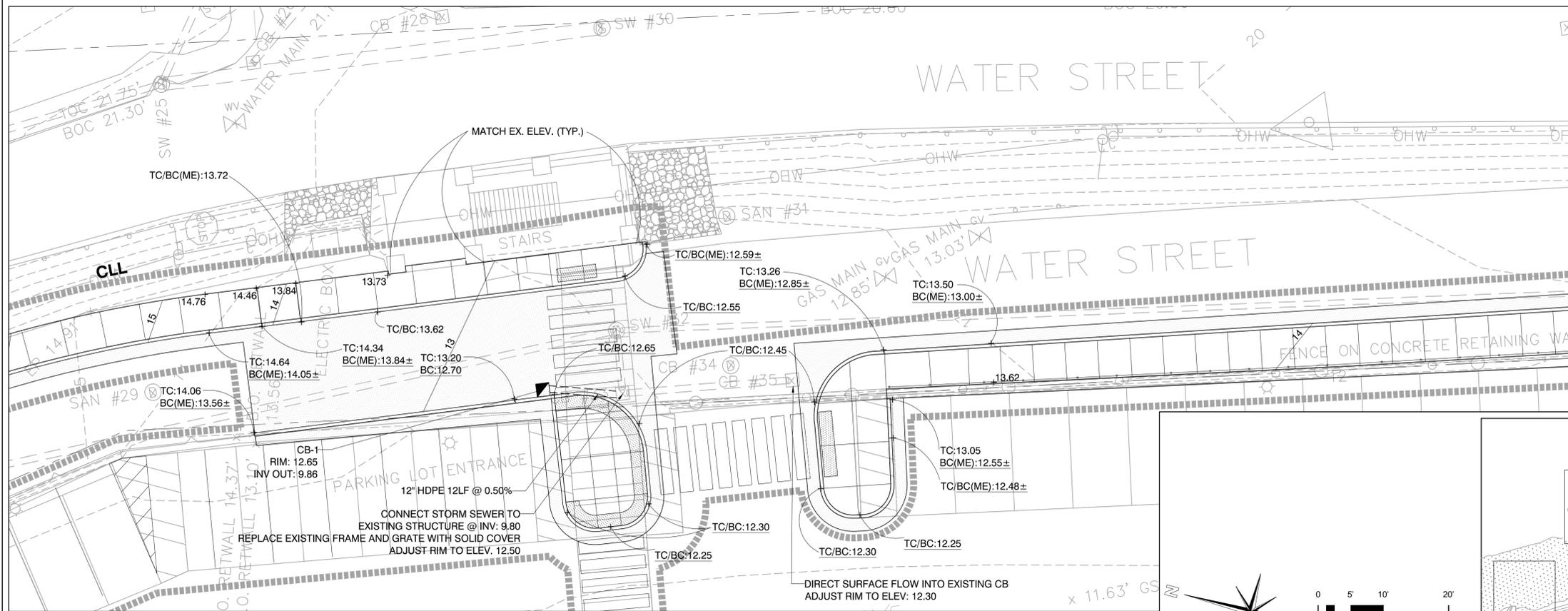
MATCHLINE - DRAWING C-5.5



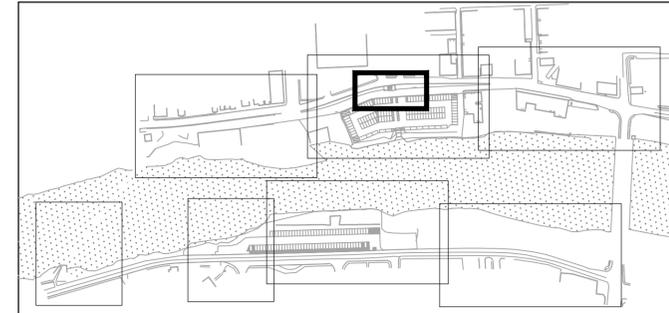
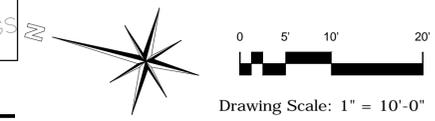




1 Lower Water Street Layout Plan Enlargement  
 C-6.1 1" = 10'



2 Lower Water Street Grading and Drainage Plan Enlargement  
 C-6.1 1" = 10'



KEY MAP: 1" = 300'

Lead Consultant:  
**ELAN**  
 PLANNING / DESIGN /  
 LANDSCAPE  
 ARCHITECTURE, PLLC  
 18 DIVISION STREET  
 STUDIO 304  
 SARATOGA SPRINGS  
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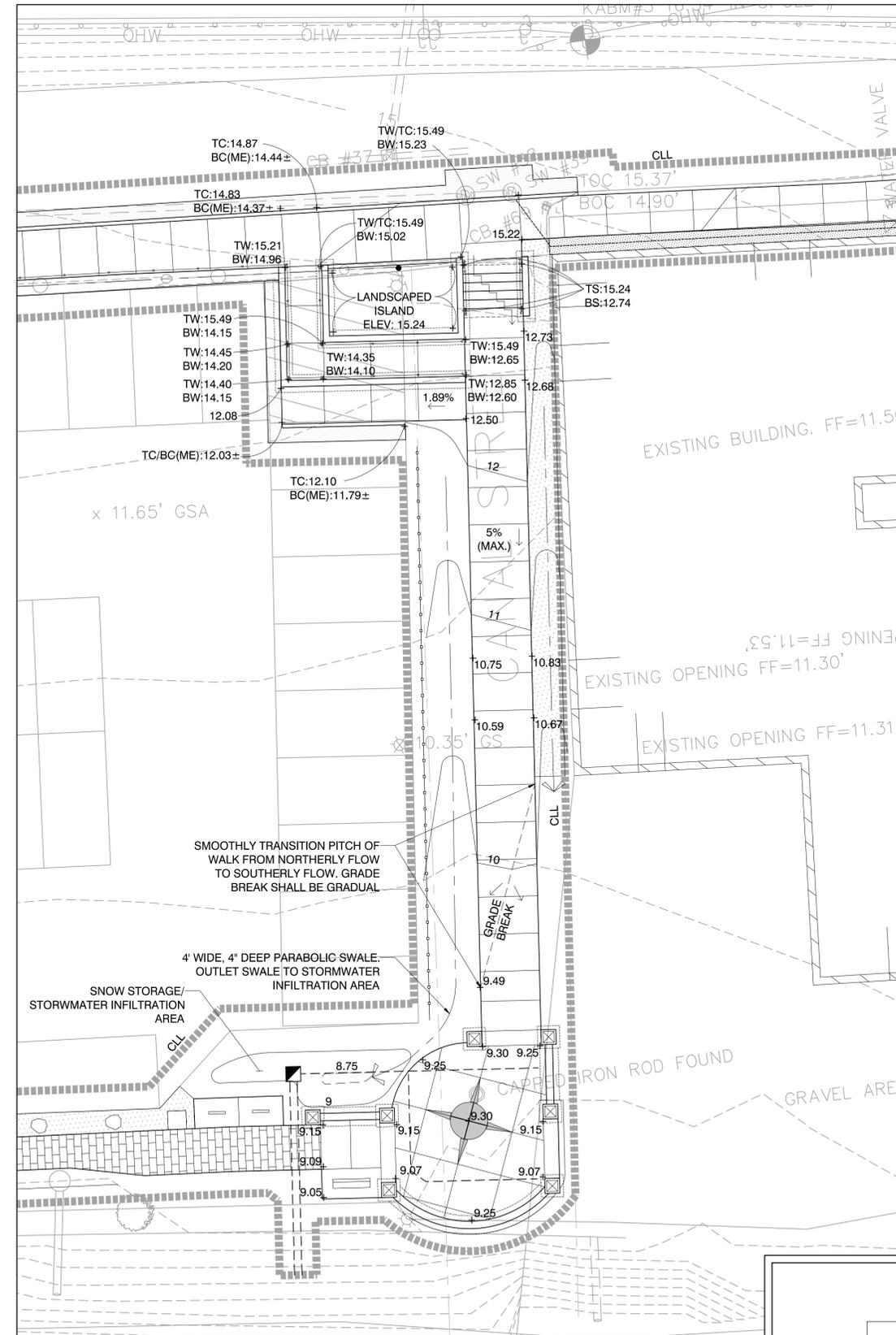
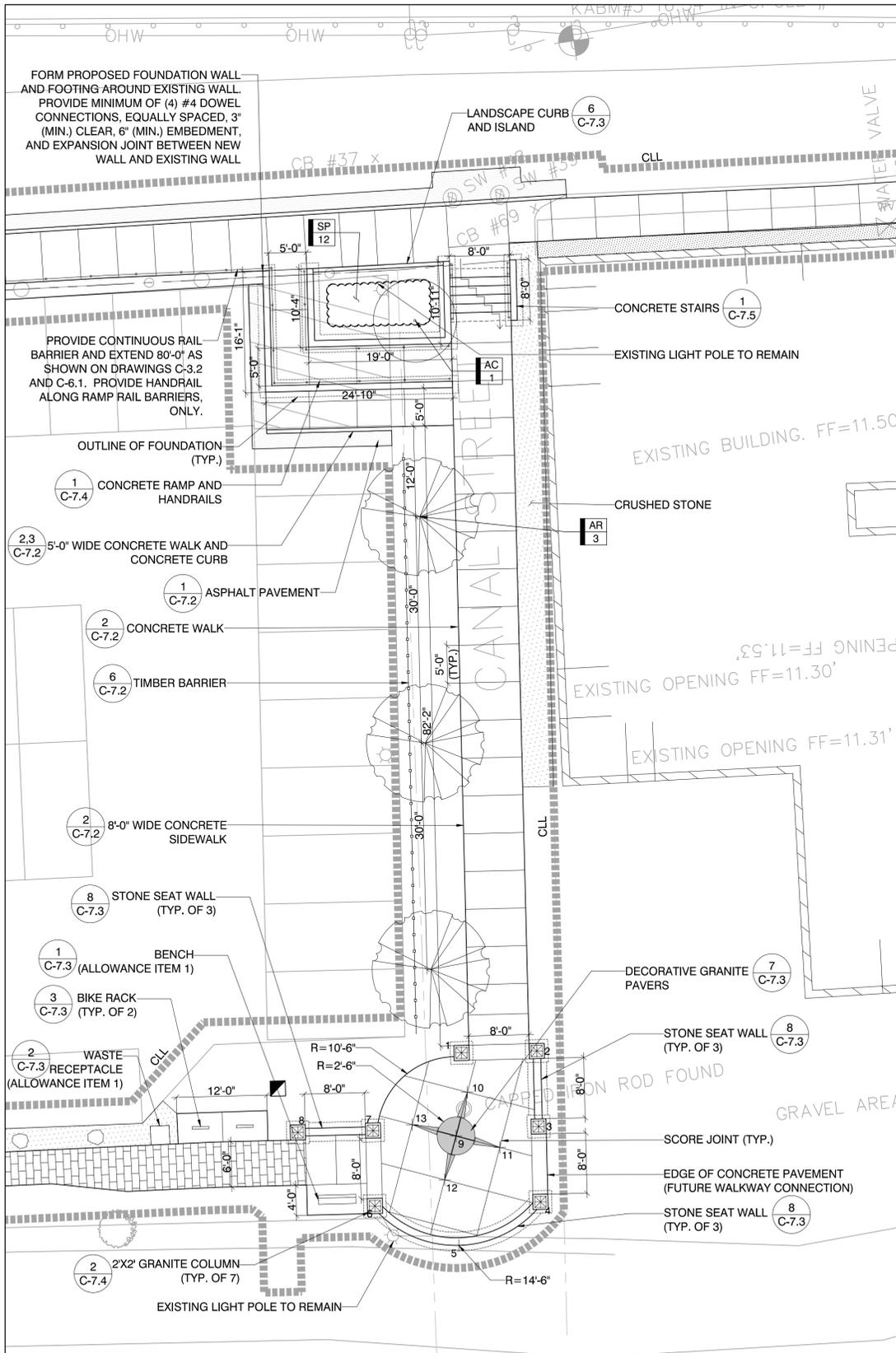
Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:  
**Lower Water Street  
 Enlargement Plan**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016
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FILE:	-
JOB. NO.:	- 14-001.1

DRAWING NO.:  
**C-6.1**



Point Table

Point #	Northing	Eastings
1	1233882.87	663612.09
2	1233873.26	663614.85
3	1233870.49	663605.24
4	1233867.73	663595.63
5	1233876.78	663587.31
6	1233888.87	663589.55
7	1233891.64	663599.16
8	1233901.25	663596.40
9	1233880.79	663601.24
10	1233880.79	663607.24
11	1233874.79	663601.24
12	1233880.79	663595.24
13	1233886.79	663601.24

Lead Consultant:

**ELAN**

PLANNING / DESIGN / LANDSCAPE ARCHITECTURE, PLLC

18 DIVISION STREET  
STUDIO 304  
SARATOGA SPRINGS  
NEW YORK 12866

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Project Title:

**Catskill Creek Waterfront Walkway**  
Village of Catskill, Greene County, New York

Sheet Title:

**Canal Street Enlargement Plan**

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN  
CHECKED BY: - JET  
FILE: -  
JOB. NO.: - 14-001.1

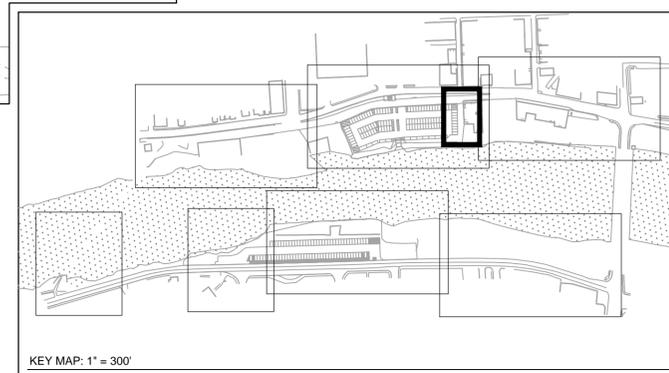
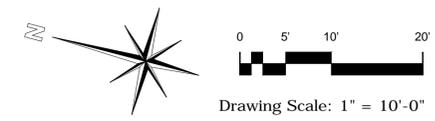
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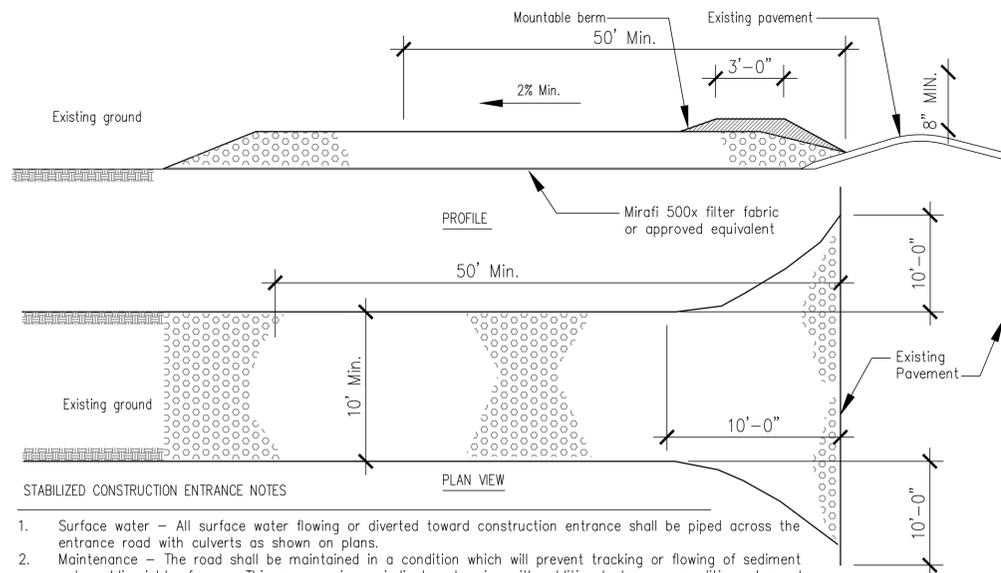
**C-6.2**

1 Canal Street Layout Plan Enlargement 1" = 10'

KEY	QTY.	BOTANICAL NAME		ROOT	SIZE	SPACING	REMARKS
		COMMON NAME	REMARKS				
DECIDUOUS TREES							
AC	1	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	B&B	6'-8"	AS SHOWN	MULTI-STEM SPECIMEN
AR	3	ACER RUBRUM "COLUMNARE"	COLUMNARE RED MAPLE	B&B	3" CAL.	30'-0" O.C.	
SHRUBS							
SP	12	SPIRAEA PRUNIFOLIA	BRIDAL WREATH SPIRAEA	CONT.	5 GAL	4'-0" O.C.	

2 Canal Street Grading and Drainage Plan Enlargement 1" = 10'





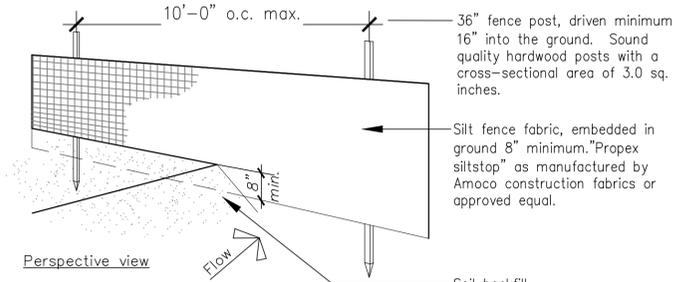
**STABILIZED CONSTRUCTION ENTRANCE NOTES**

1. Surface water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance road with culverts as shown on plans.
2. Maintenance - The road shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-ways. This may require periodic top dressing with additional stone as conditions demand. Repair and/or cleanout any measures used to trap sediment. all sediment spilled, dropped, washed, or tracked onto public right-of-ways must be removed immediately.
3. Periodic inspection and needed maintenance shall be provided after each rain.
4. Wheels shall be cleaned to remove mud prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone which drains into an approved sediment trapping device.

1  
C-7.1

**Stabilized Construction Entrance**

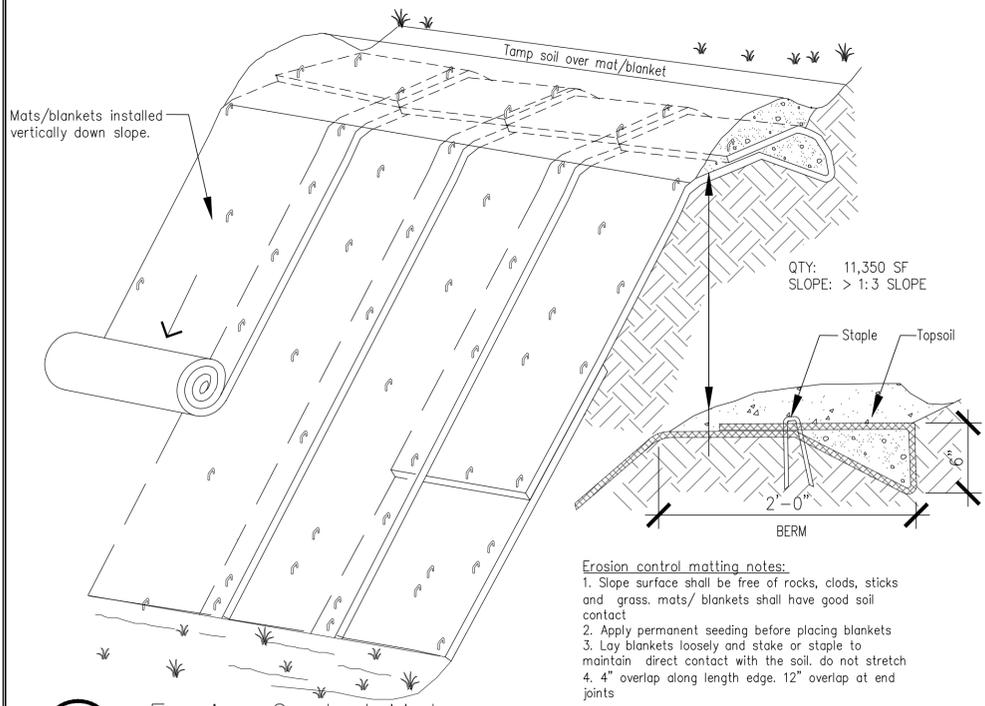
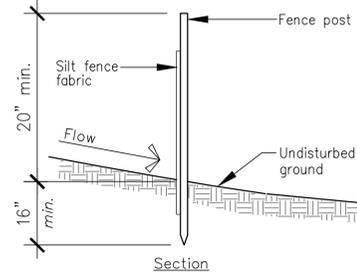
not to scale



2  
C-7.1

**Temporary Siltation Fence**

not to scale



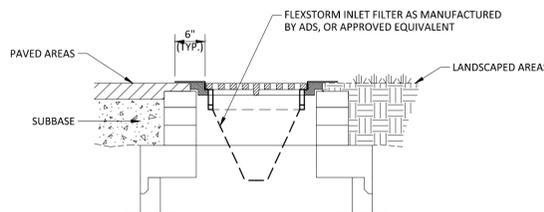
**Erosion control matting notes:**

1. Slope surface shall be free of rocks, clods, sticks and grass. mats/blankets shall have good soil contact
2. Apply permanent seeding before placing blankets
3. Lay blankets loosely and stake or staple to maintain direct contact with the soil. do not stretch
4. 4" overlap along length edge. 12" overlap at end joints

3  
C-7.1

**Erosion Control Mat**

not to scale



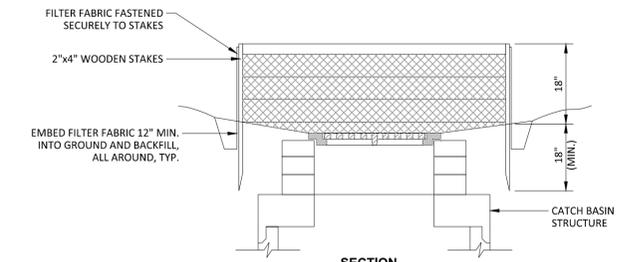
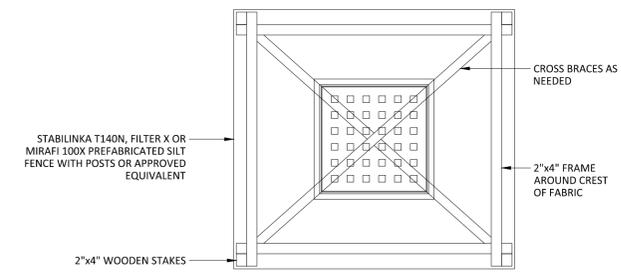
**NOTES:**

1. TEMPORARY DURING CONSTRUCTION.
2. CLEAN AND DISPOSE OF ACCUMULATED SEDIMENTS AFTER EACH RAIN EVENT.
3. REMOVE AND REPLACE AOBG.

4  
C-7.1

**Drainage Structure Inlet Protection (In Pavement)**

not to scale



**NOTES:**

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
2. CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE MINIMUM 18" DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
7. MAXIMUM DRAINAGE AREA IS 1 ACRE.
8. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

5  
C-7.1

**Drainage Structure Inlet Protection (Out of Pavement)**

not to scale

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Project Title:

**Catskill Creek  
Waterfront Walkway**  
Village of Catskill, Greene County,  
New York

Sheet Title:

**Erosion and Sediment  
Control Details**

**Drawing Log:**

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN

CHECKED BY: - JET

FILE:

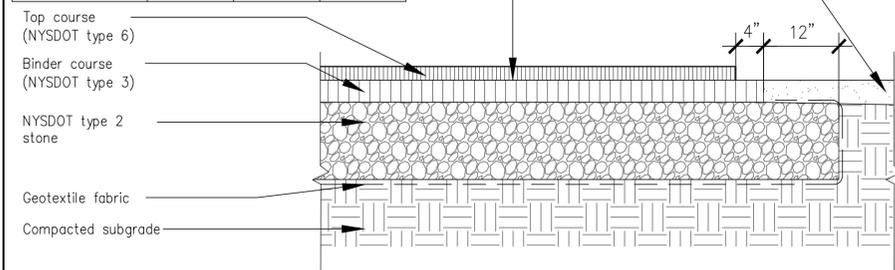
JOB. NO.: - 14-001.1

DRAWING NO.:

**C-7.1**

Pavement Type	Top Course Thickness	Binder Course Thickness	Subbase Course Thickness
Type A Vehicular Drive and Parking Stalls	2"	3"	12"
Type B Pedestrian paths and walkways	1"	2"	8"

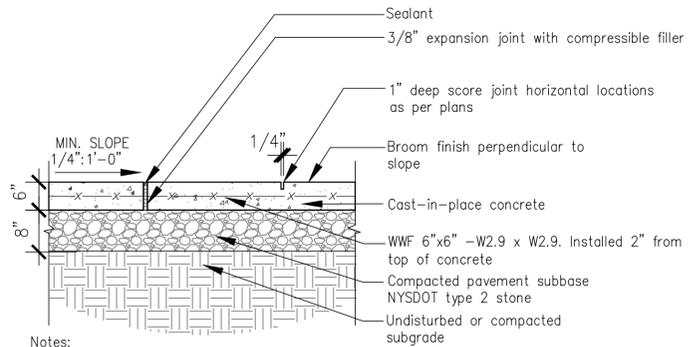
Note:  
1. Apply emulsified asphalt tack coat between asphalt courses.



1 Asphalt Concrete Pavement

C-7.2

not to scale

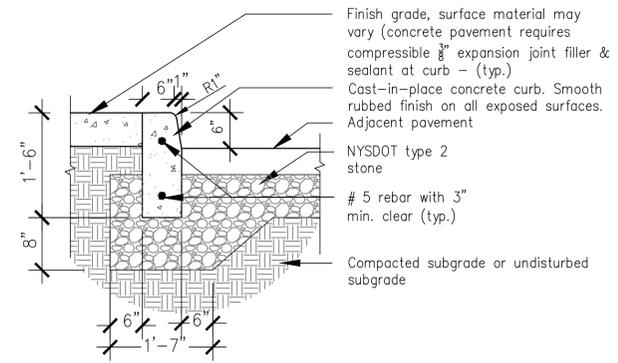


Notes:  
1. Expansion Joint spacing: 25' o.c. both directions  
2. Walkway Score Joint Spacing: 5' o.c. Unless otherwise noted on the plans.

2 Cast-In-Place Concrete Pavement

C-7.2

not to scale



3 Cast-in-Place Concrete Curb

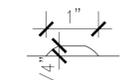
C-7.2

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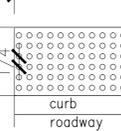
DOME - N.T.S.  
SECTION VIEW

Notes:

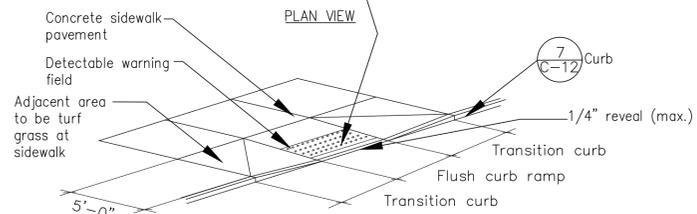
- The detectable warning field shall extend the full width of the curb ramp.
- Detectable warning field shall be located so the edge of the warning field nearest to the roadway or street surface is 5.9 inches to 8.8 inches from the edge of the roadway/street.
- The warning field domes shall be aligned at a right angle on a square grid in the predominant direction of travel.
- Detectable warning shall meet NYSDOT current specifications.
- Install tactile warning field flush with existing pavement if curb ramp is not required.



Extend detectable warning strip for full length of flush curb or as specified on plans



Detectable warning field dome - typ.

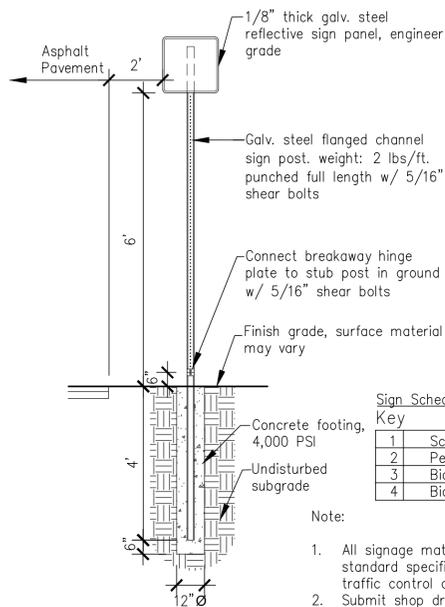


7 C-12

4 Handicapped Accessible Curb and Tactile Warning Field

C-7.2

not to scale



Sign Schedule

Key	Type	MUTCD ID
1	School Crossing sign	S1-1 and W16-7pL
2	Pedestrian Crossing sign	W11-2L and W16-7pL
3	Bicycle Route sign	D11-1
4	Bicycle Dismount sign	-

Note:

- All signage materials and installation shall conform to NYSDOT standard specifications section 645, and NYSDOT manual of uniform traffic control devices, latest edition.
- Submit shop drawings of signs prior to purchase.

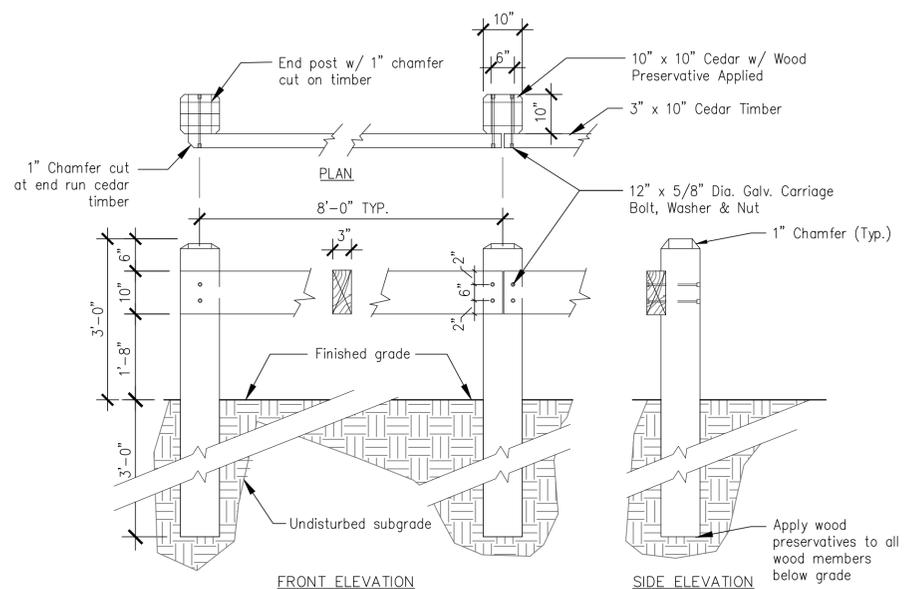


Bicycle Dismount Sign

5 Roadway Signage

C-7.2

not to scale



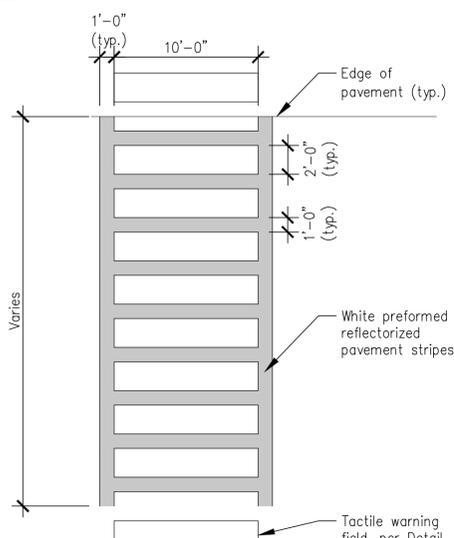
FRONT ELEVATION

SIDE ELEVATION

6 Timber Barrier

C-7.2

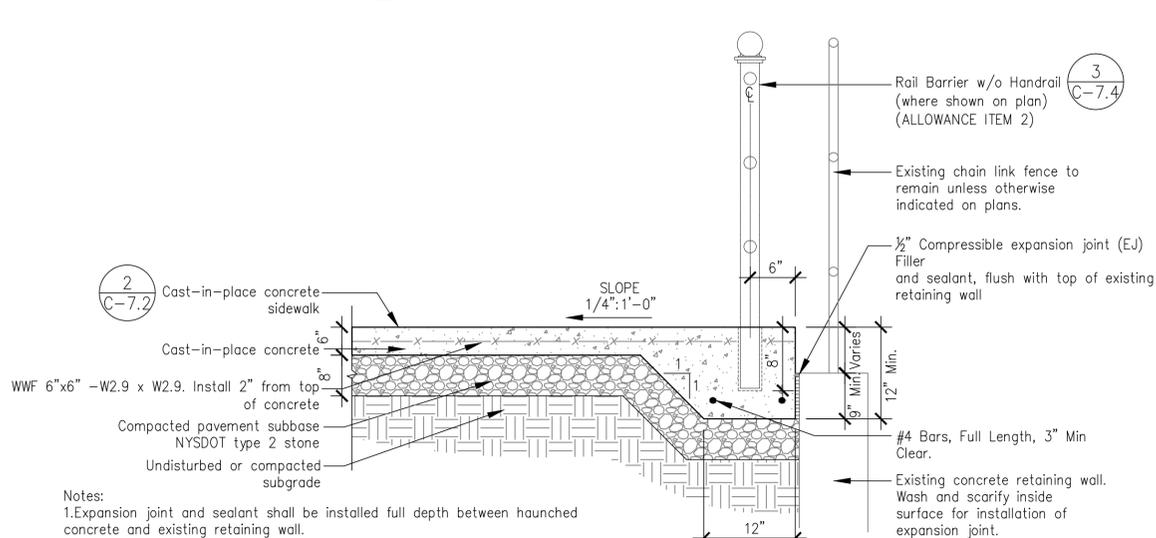
NOT TO SCALE



7 NYS DOT Type LS (MOD.) Crosswalk

C-7.2

not to scale



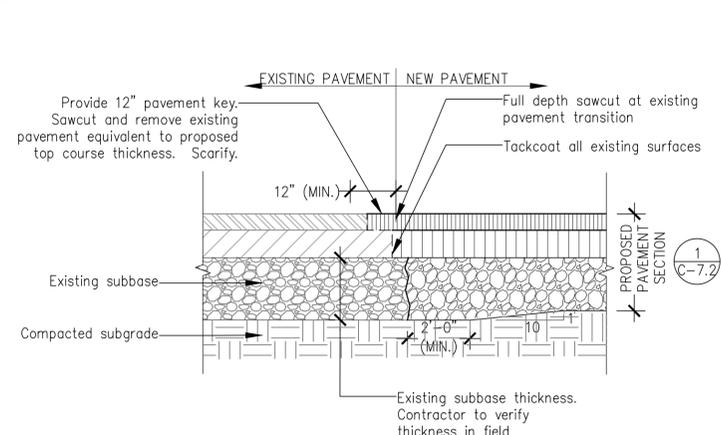
Notes:  
1. Expansion joint and sealant shall be installed full depth between haunched concrete and existing retaining wall.

2 C-7.2

8 Cast-In-Place Concrete Pavement - Haunched Section

C-7.2

not to scale



NOTE:

- IF EXISTING SUBBASE THICKNESS IS GREATER THAN PROPOSED, MATCH THICKNESS AS SHOWN BEFORE TRANSITIONING TO PROPOSED THICKNESS.

9 C-7.2

9 Asphalt Sawcut/Pavement Transition Detail

not to scale

Lead Consultant:



Project Sponsors:

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Project Title:

Catskill Creek Waterfront Walkway  
Village of Catskill, Greene County, New York

Sheet Title:

Site Details

Drawing Log:

Rev. 05	DATE
Rev. 04	DATE
Rev. 03	DATE
Rev. 02	DATE
Rev. 01	DATE

ISSUED FOR BID  
DATE 11.11.2016

DRAWN BY: - WDN

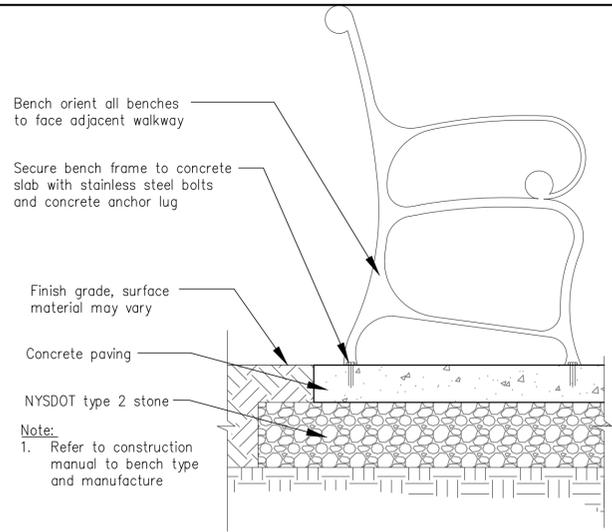
CHECKED BY: - JET

FILE: -

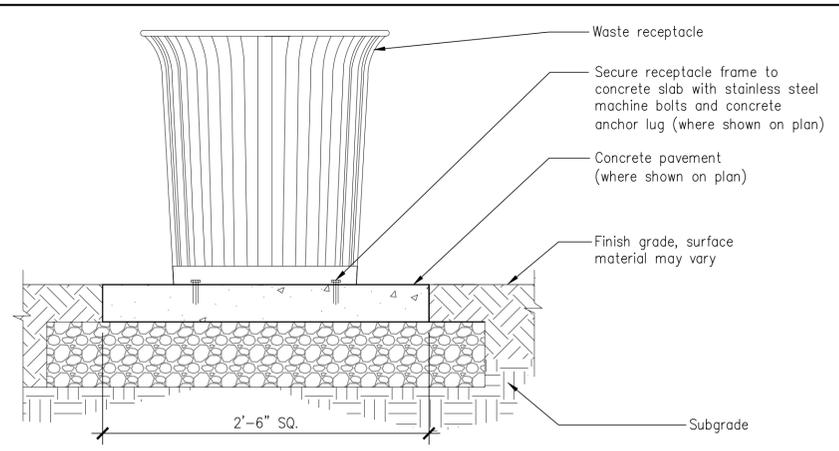
JOB. NO.: - 14-001.1

DRAWING NO.:

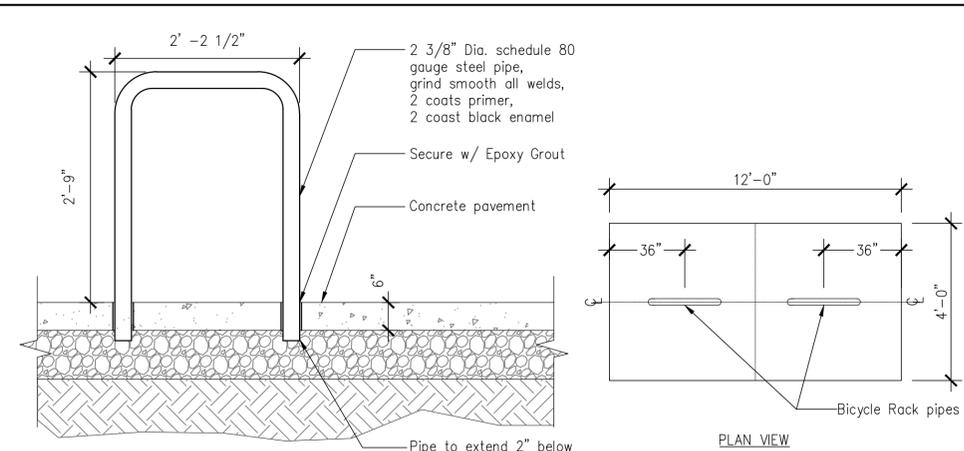
C-7.2



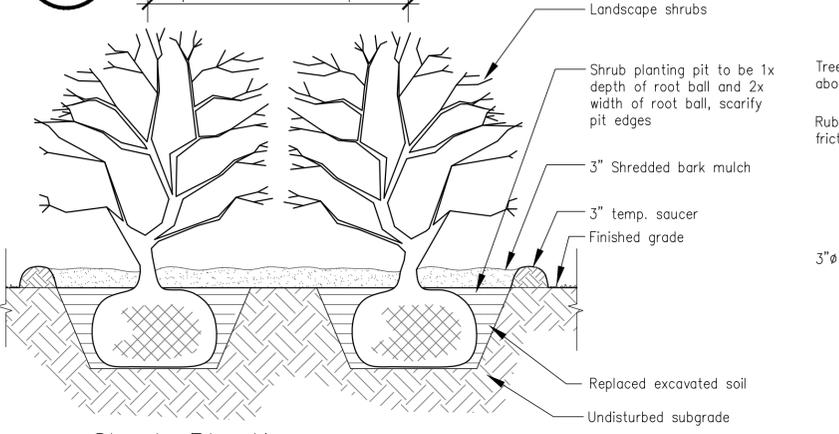
1 Bench (Allowance Item 1)  
C-7.3 not to scale



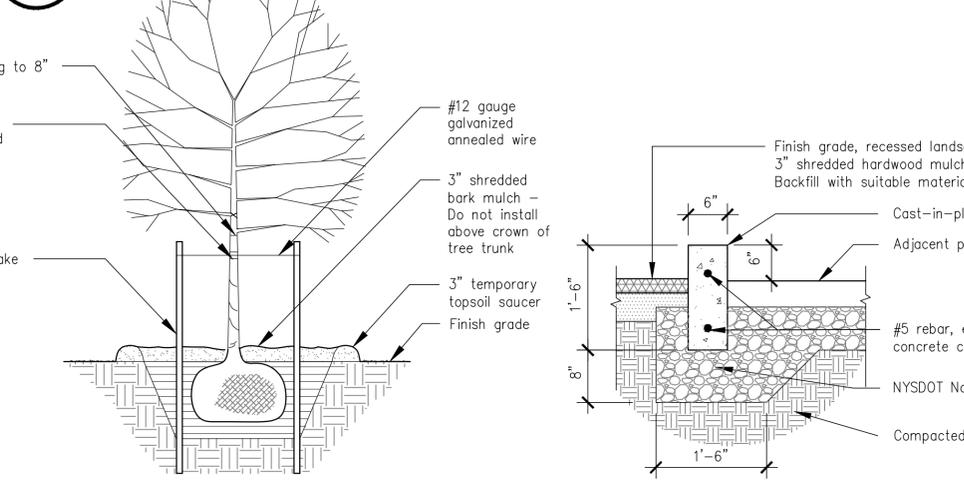
2 Waste Receptacle (Allowance Item 1)  
C-7.3 not to scale



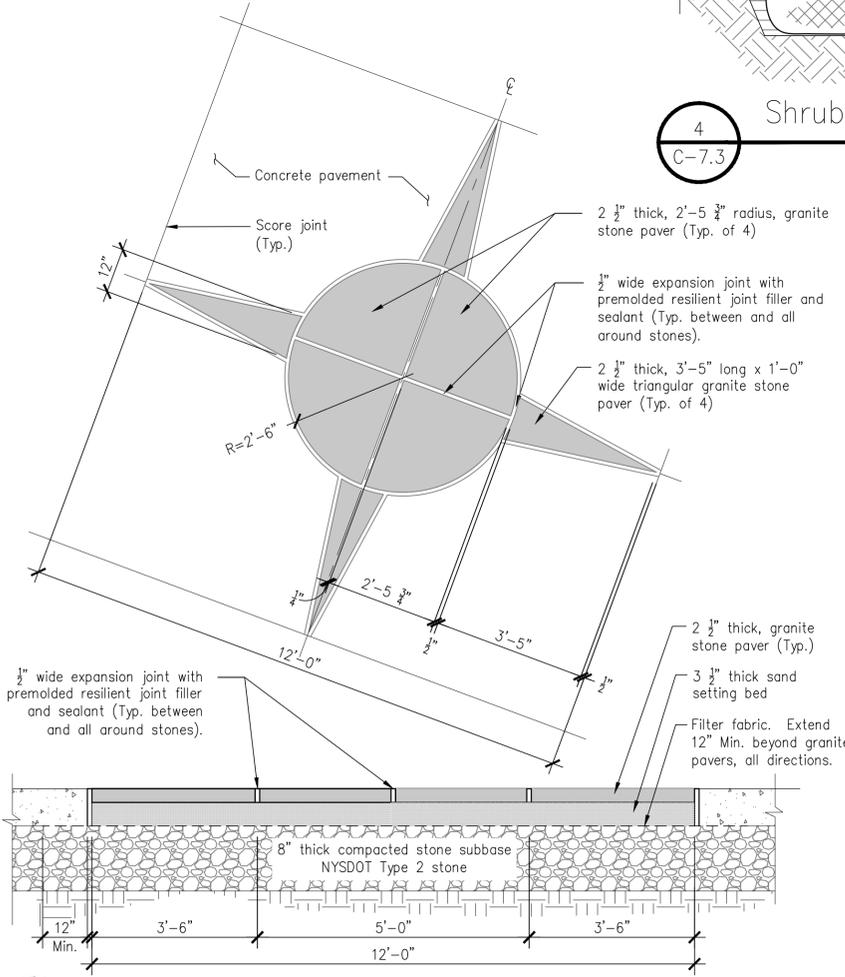
3 Bike Rack  
C-7.3 not to scale



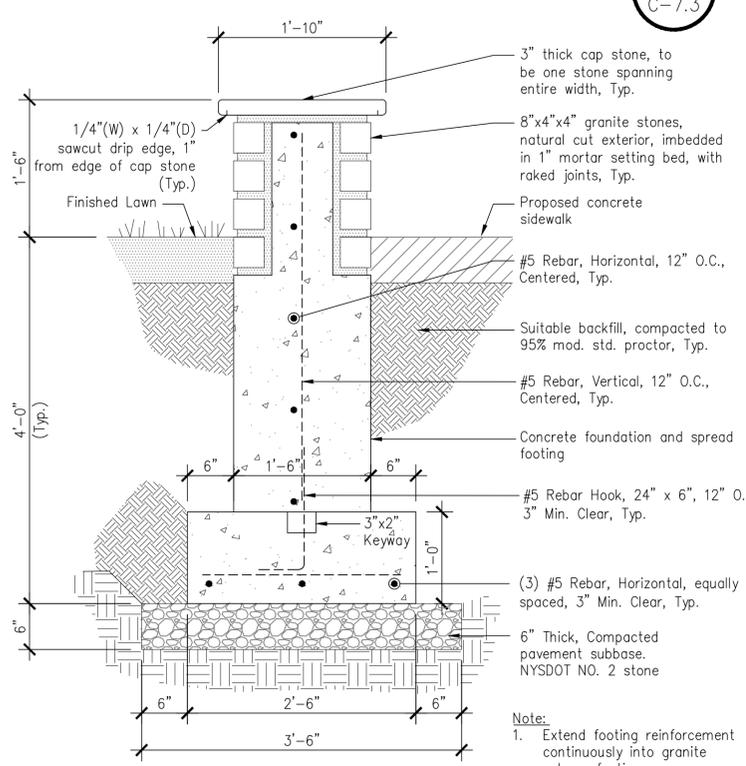
4 Shrub Planting  
C-7.3 not to scale



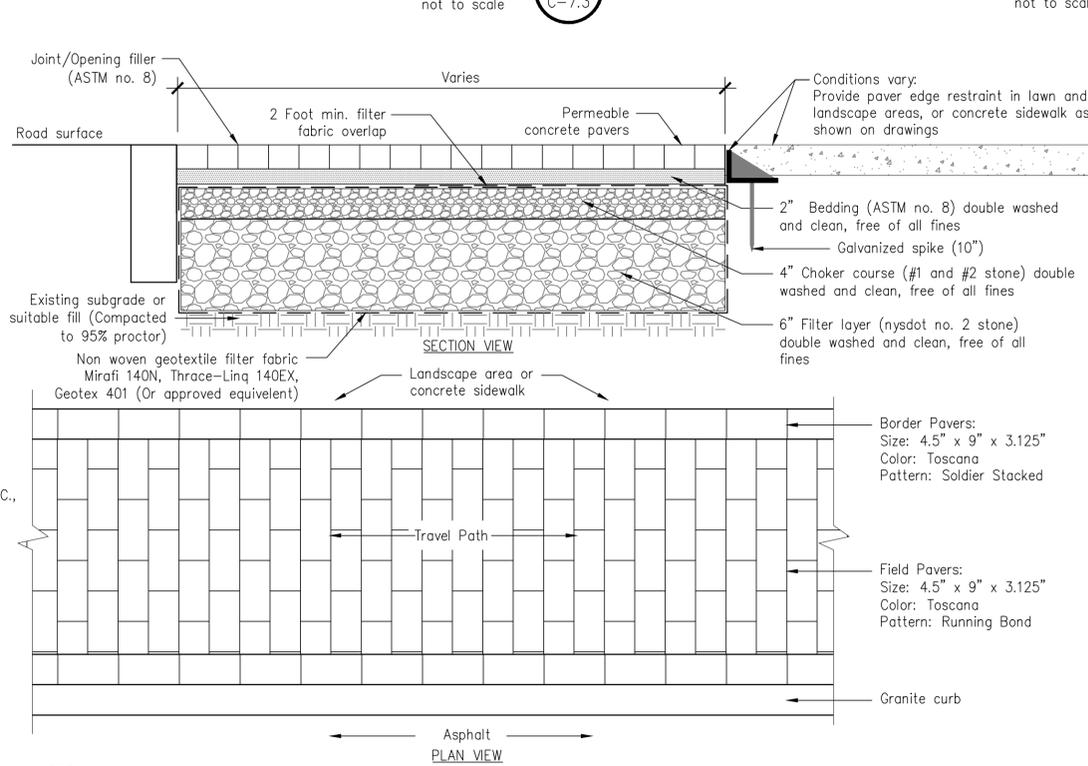
5 Tree Planting  
C-7.3 not to scale



7 Decorative Granite Pavers  
C-7.3 not to scale



8 Stone Seatwall  
C-7.3 not to scale



9 Permeable Paver Installation Detail  
C-7.3 not to scale

6 Landscape Curb and island  
C-7.3 not to scale

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Project Title:  
**Catskill Creek Waterfront Walkway**  
Village of Catskill, Greene County, New York

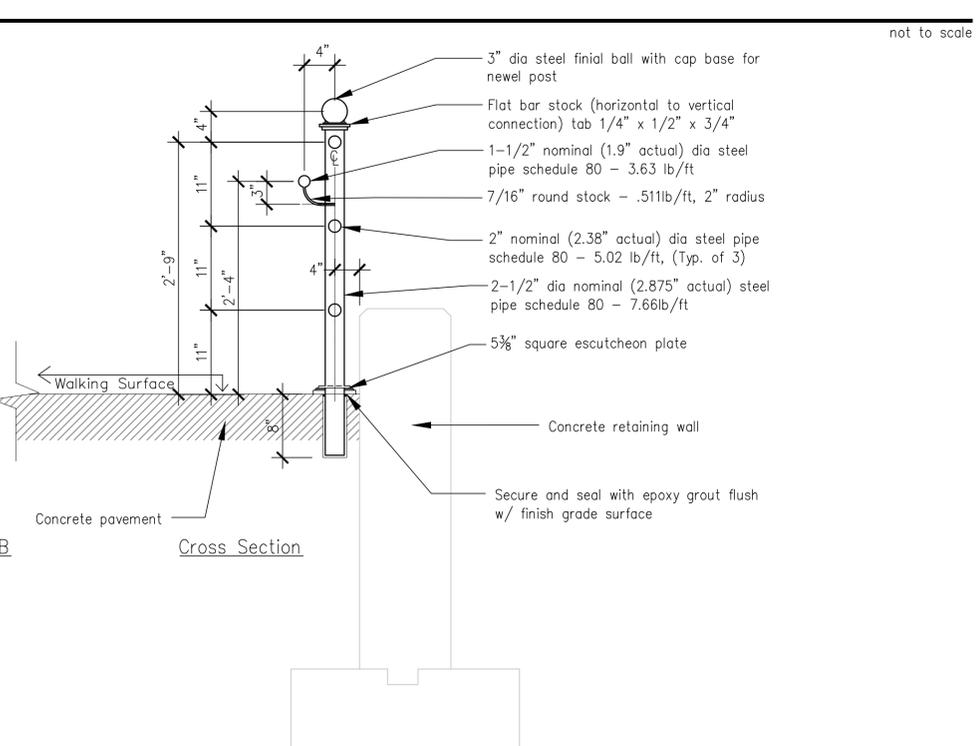
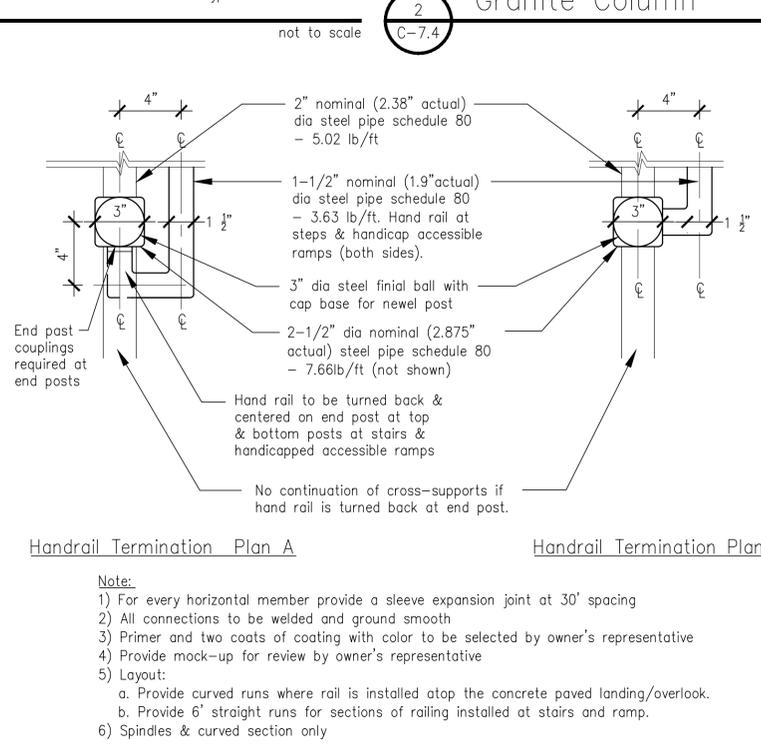
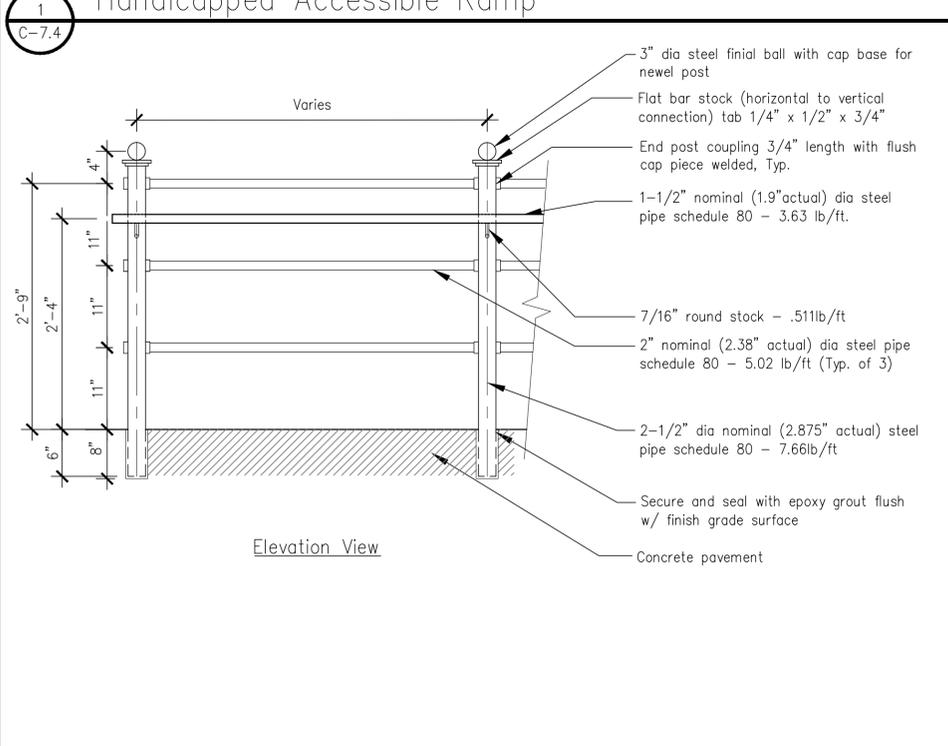
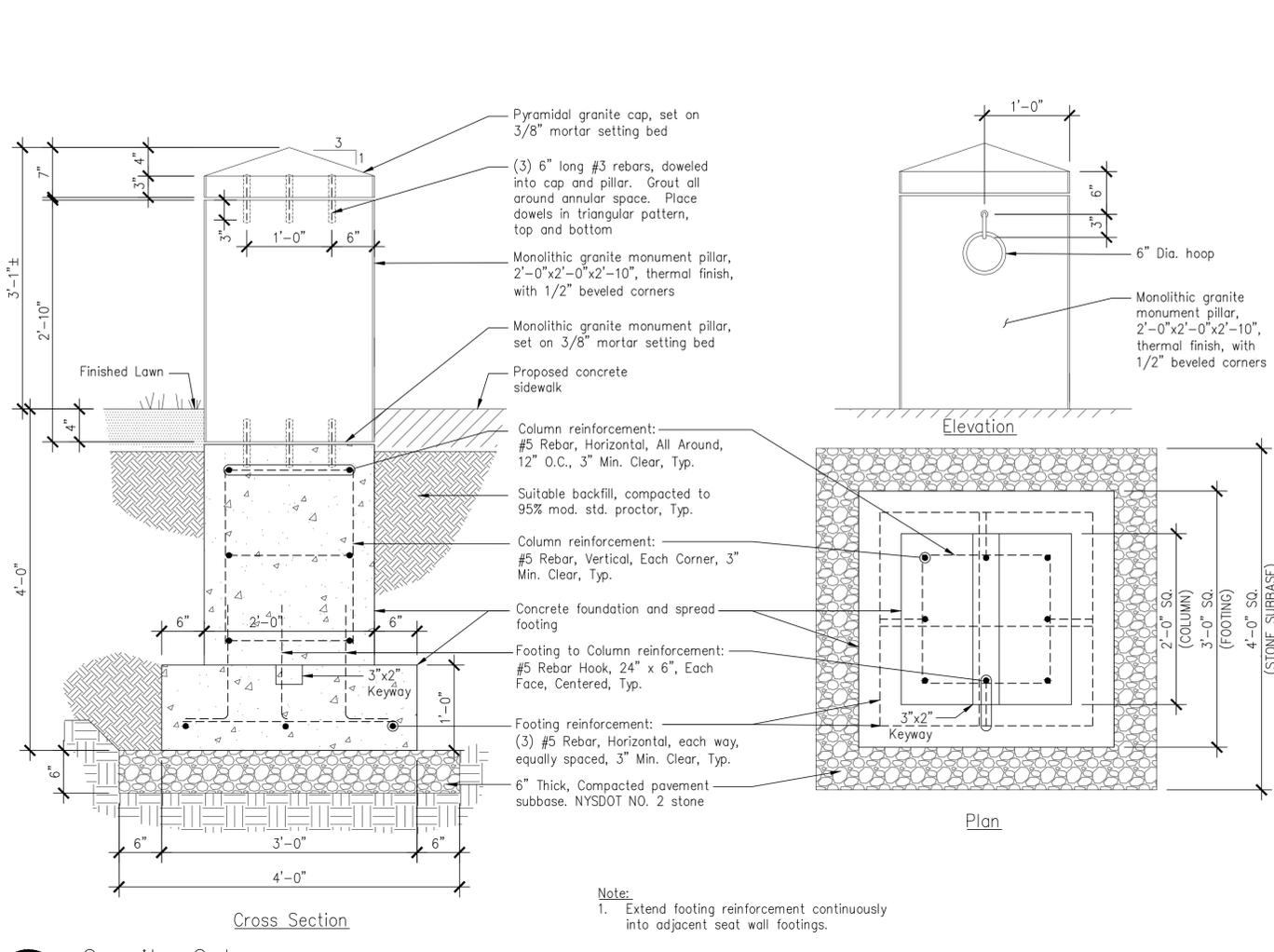
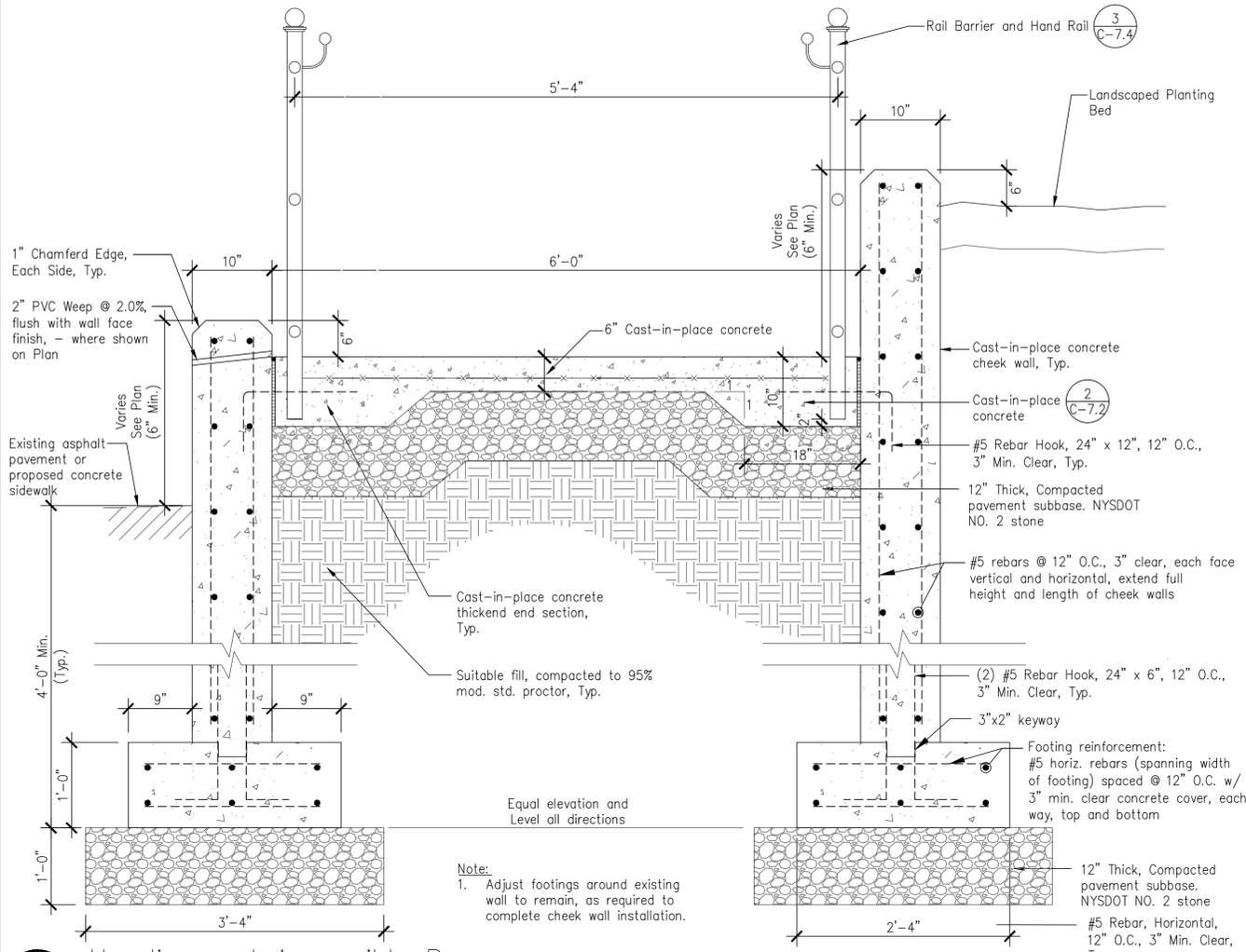
Sheet Title:

**Site Details**

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DRAWING NO.:	

C-7.3



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Project Title:  
**Catskill Creek  
 Waterfront Walkway**  
 Village of Catskill, Greene County,  
 New York

Sheet Title:

**Site Ramp and  
 Railing Details**

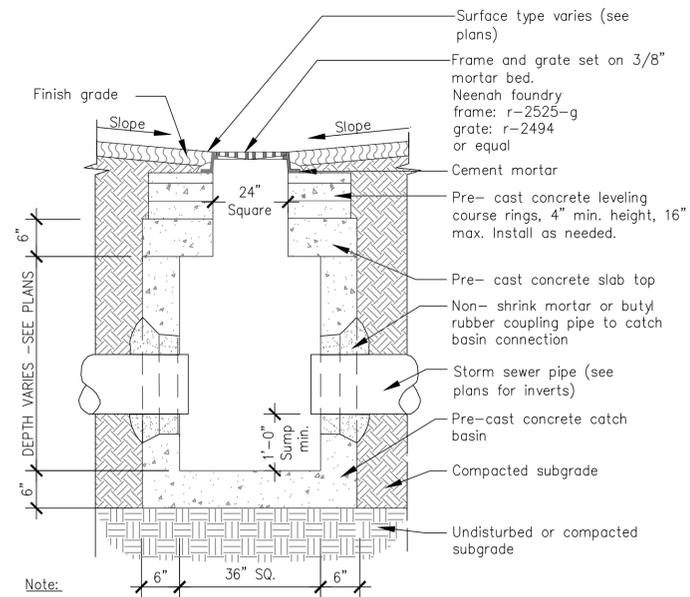
Drawing Log:

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Rev. 01	DATE
ISSUED FOR BID	11.11.2016

DRAWN BY: - WDN  
 CHECKED BY: - JET  
 FILE:  
 JOB NO.: - 14-001.1

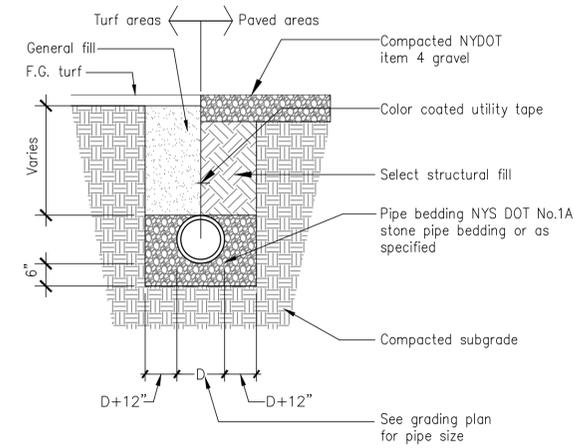
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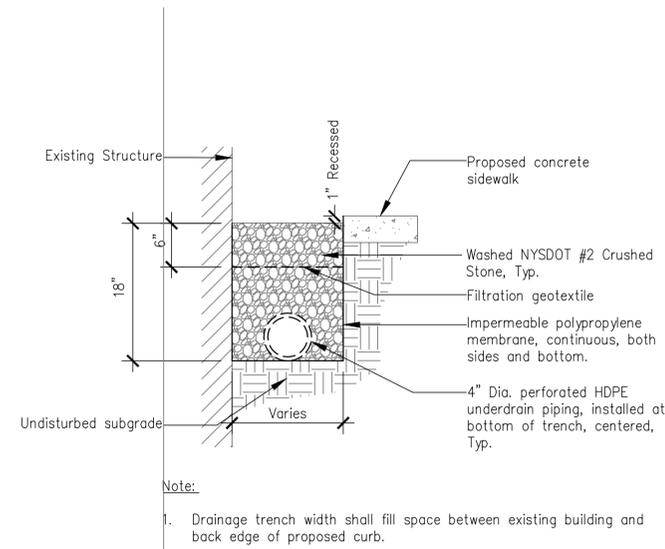


- Note:
1. Polypropylene steps are required when top of frame to bottom of floor exceeds 4'-0". Depth from top of frame to first step shall be 24" max. Install steps at 12" O.C., Typ.
  2. All precast concrete construction shall be in accordance with ASTM C478.
  3. Frame and Grate shall be hot rolled steel and hot dip galvanized per astm 123 after fabrication.
  4. Unit designed heavy duty for a.a.s.h.t.o. hs20-44 wheel loads.
  5. Size pipe knockouts as required to connect existing piping to structure where shown on plan. Utilize dog-house style structures as needed.

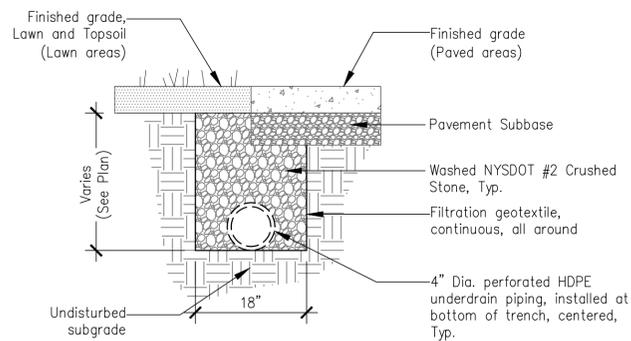
1 Catch Basin  
 C-7.6 not to scale



2 Pipe Trench (Storm System)  
 C-7.6 not to scale

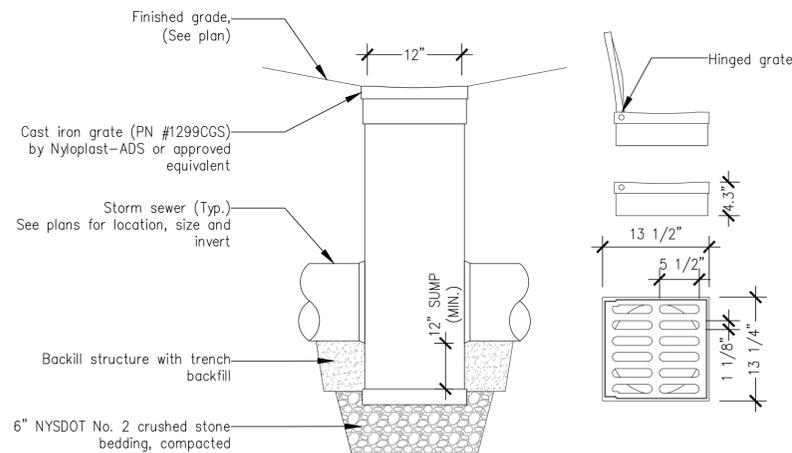


3 Drainage Trench  
 C-7.6 not to scale



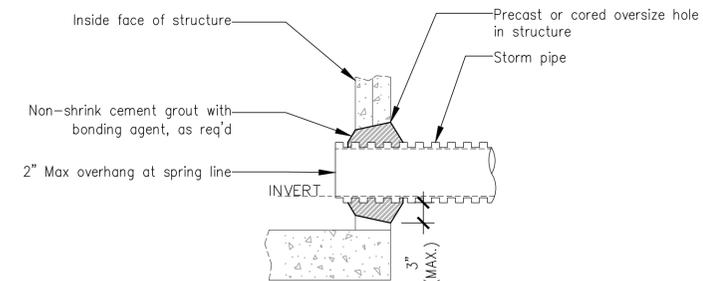
- Note:
1. Ensure positive drainage from underdrain to outlet.

4 Underdrain  
 C-7.6 not to scale



- NOTES:
1. CASTINGS RATING: STANDARD HS20-44 LOADING
  2. CASTINGS PAINT: BLACK
  3. CASTINGS MATERIAL: ASTM A48-CLASS 30B

5 12" PVC Area Drain Basin  
 C-7.6 not to scale



- NOTES:
1. MAINTAIN MINIMUM SUMP FOR CONNECTIONS TO NEW STORM STRUCTURES.

6 Cement Grout Storm Pipe Connection to Drainage Structure  
 C-7.6 not to scale

Project Sponsors:

Project Title:

**Catskill Creek Waterfront Walkway**  
 Village of Catskill, Greene County, New York

Sheet Title:

**Site Utilities Details**

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**C-7.6**