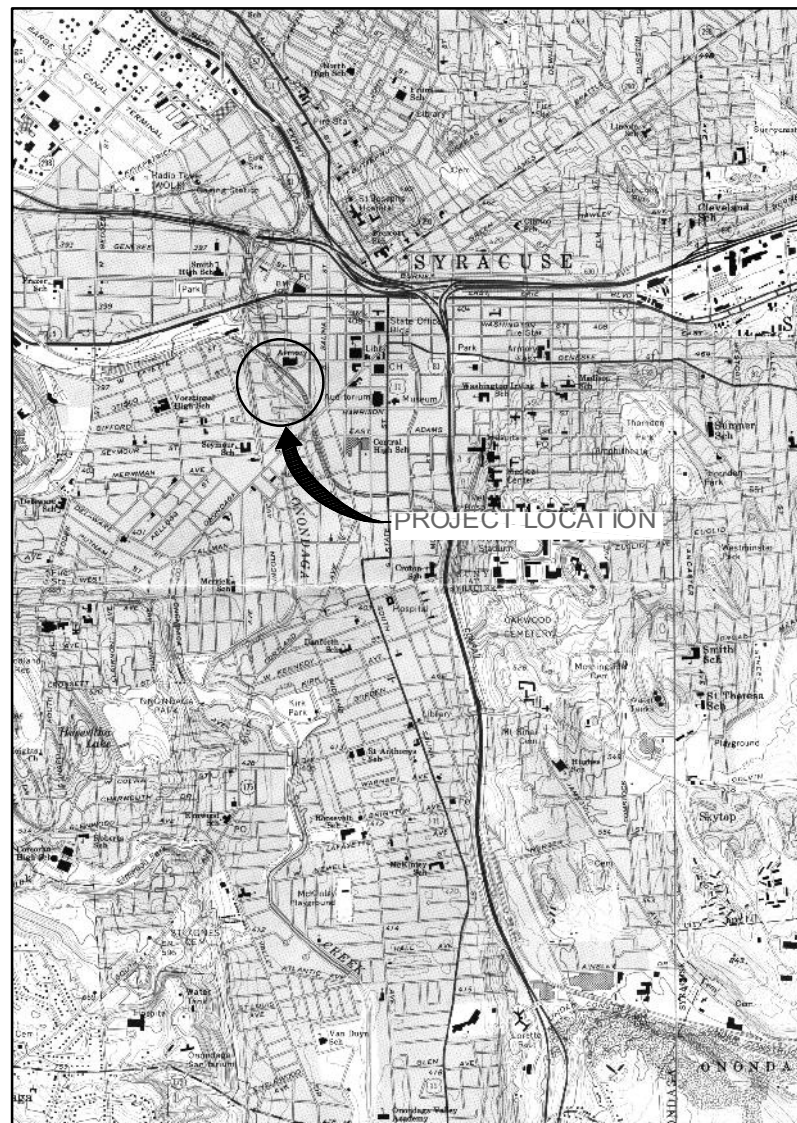


CLINTON CSO STORAGE FACILITY PROJECT

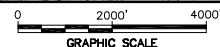
CONTRACT NO. 7
BID REFERENCE NO. 7234
PROJECT NO. 587960

COUNTY OF ONONDAGA
DEPARTMENT OF WATER ENVIRONMENT PROTECTION
TOM RHOADS, P.E., COMMISSIONER

APRIL 2011 (CONFORMED APRIL 2012)



LOCATION MAP



ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 5/16 PER: RCF

GENERAL DRAWINGS:

- G-001 INDEX OF DRAWINGS
- G-002 GENERAL NOTES, SYMBOLS & ABBREVIATIONS
- G-003 EXISTING SITE PLAN 1
- G-004 EXISTING SITE PLAN 2
- G-005 BASELINE TIES & BENCHMARKS
- G-006 SURVEY BASELINE CONTROL
- G-007 CONSTRUCTION ACCESS, SECURITY & STAGING PLAN
- G-101 DEMOLITION PLAN 1
- G-102 DEMOLITION PLAN 2
- G-103 SITE COORDINATES 1
- G-104 SITE COORDINATES 2
- G-105 MISCELLANEOUS STORMWATER DETAILS
- G-105A MISCELLANEOUS STORMWATER DETAILS
- G-106 SITE LAYOUT PLAN - WEST
- G-107 SITE LAYOUT PLAN - EAST
- G-108 SITE GRADING PLAN - WEST
- G-109 SITE GRADING PLAN - EAST
- G-110 LANDSCAPE PLAN - WEST
- G-111 LANDSCAPE PLAN - EAST
- G-112 SITE DETAILS
- G-113 SITE DETAILS
- G-113A SITE DETAILS
- G-118 MISCELLANEOUS SITE WORK DETAILS
- G-119 MISCELLANEOUS SITE WORK DETAILS
- G-120 EROSION CONTROL PLAN
- G-121 EROSION CONTROL DETAILS AND NOTES
- G-122 YARD PIPING - PLAN
- G-123 YARD PIPING - PROFILES
- G-124 FORCE MAIN - PLAN & PROFILE
- G-125 96" CONVEYANCE PLAN AND PROFILE
- G-126 36" & 84" CONVEYANCE PLAN, 12" SANITARY SEWER PLAN & PROFILE
- G-127 36" & 84" CONVEYANCE PROFILES
- G-128 CONNECTION TO MIS AND MISCELLANEOUS DETAILS
- G-129 MISCELLANEOUS CONVEYANCE DETAILS
- G-130 TEMPORARY CONSTRUCTION BRIDGE - PLAN, SECTION & ELEVATION
- G-131 TEMPORARY CONSTRUCTION BRIDGE - NORTH AND SOUTH ABUTMENT PLAN
- G-132 TEMPORARY CONSTRUCTION BRIDGE - DETAILS
- GS-UB-1 WATER LINE UTILITY BRIDGE PLAN, ELEVATION, SECTION AND NOTES
- GS-UB-2 WATER LINE UTILITY BRIDGE SECTIONS, DETAILS AND NOTES
- GS-UB-3 WATER LINE UTILITY BRIDGE ELEVATIONS, SECTION AND DETAIL
- GS-UB-4 WATER LINE UTILITY BRIDGE ABUTMENT PLAN AND DETAIL
- G-133 STORMWATER COLLECTION PLAN
- G-134 STORMWATER COLLECTION SYSTEM - PROFILES AND DETAILS
- G-134A STORMWATER COLLECTION SYSTEM - PROFILES AND DETAILS
- G-135 BULKHEAD REMOVAL DETAILS
- G-136 CSO LOCATION PLAN
- G-137 OVERFLOW CHANNEL - PLAN AND SECTIONS
- G-138 OVERFLOW CHANNEL - SECTIONS AND DETAILS

GEOTECHNICAL STRUCTURAL DRAWINGS:

- WGS-001 GENERAL NOTES, SCHEDULES AND ABBREVIATIONS
- WGS-002 PROPOSED GENERAL SEQUENCE OF CONSTRUCTION
- WGS-101 WEST CHAMBER - PLAN @ EL 347.0
- WGS-101A WEST CHAMBER - INVERT SLAB
- WGS-102 WEST CHAMBER - PLAN @ EL 352.0
- WGS-103 WEST CHAMBER - PLAN @ EL 371.0
- WGS-104 WEST CHAMBER - PLAN @ EL 391.0
- WGS-105 WEST CHAMBER - WEST WALL ELEVATION
- WGS-106 WEST CHAMBER - NORTH WALL ELEVATION
- WGS-107 WEST CHAMBER - EAST WALL ELEVATION
- WGS-108 WEST CHAMBER - SOUTH WALL ELEVATION
- WGS-109 COLLAR BEAM AND STRUT DETAILS
- WGS-202 EAST CHAMBER - PLAN @ EL 374.0
- WGS-202A EAST CHAMBER - PLAN @ EL 374.0 RECORD DWG MARKUPS
- WGS-203 EAST CHAMBER - PLAN @ EL 384.0
- WGS-204 EAST CHAMBER - NORTH WALL ELEVATION
- WGS-205 EAST CHAMBER - EAST WALL ELEVATION
- WGS-206 EAST CHAMBER - SOUTH WALL ELEVATION
- WGS-206A EAST CHAMBER - SOUTH WALL ELEVATION RECORD DWG MARKUPS
- WGS-207 EAST CHAMBER - WEST WALL ELEVATION
- WGS-301 SHAFT AND PIPING SITE PLAN - WEST
- WGS-302 SHAFT AND PIPING SITE PLAN - EAST
- WGS-400 BRACING DETAILS
- WGS-401 EMBEDDED PLATES DETAILS
- WGS-402 DETAILS
- WGS-403 EAST CHAMBER - DETAILS
- WGS-404 EAST CHAMBER - DETAILS
- GS-507 PILE FOUNDATIONS

ARCHITECTURAL DRAWINGS:

- A-001 SYMBOLS AND ABBREVIATIONS
- A-101 CLINTON STORAGE FACILITY - GRADE LEVEL PLAN
- A-102 CLINTON STORAGE FACILITY - UPPER LEVEL PLAN AND PLAN DETAILS
- A-103 CLINTON STORAGE FACILITY - ROOF PLAN
- A-104 CLINTON STORAGE FACILITY - ROOF DETAILS
- A-105 CLINTON STORAGE FACILITY - BUILDING ELEVATIONS
- A-106 CLINTON STORAGE FACILITY - BUILDING ELEVATIONS
- A-107 CLINTON STORAGE FACILITY - BUILDING ELEVATION DETAILS
- A-108 CLINTON STORAGE FACILITY - BUILDING ELEVATION DETAILS
- A-108A CLINTON STORAGE FACILITY - BUILDING ELEVATION DETAILS
- A-109 CLINTON STORAGE FACILITY - BUILDING SECTIONS
- A-110 CLINTON STORAGE FACILITY - BUILDING SECTIONS
- A-111 CLINTON STORAGE FACILITY - WALL SECTIONS
- A-201 EAST ENTRANCE STRUCTURE - GRADE LEVEL PLAN AND ROOF PLAN
- A-202 EAST ENTRANCE STRUCTURE - ELEVATIONS
- A-202A EAST ENTRANCE STRUCTURE - ELEVATIONS
- A-203 EAST ENTRANCE STRUCTURE - ELEVATION DETAILS
- A-203A EAST ENTRANCE STRUCTURE - ELEVATION DETAILS
- A-204 EAST ENTRANCE STRUCTURE - SECTIONS
- A-301 DOOR AND ROOM FINISH SCHEDULES
- A-302 DOOR, LOUVER AND PANEL DETAILS
- A-302A DOOR, LOUVER AND PANEL DETAILS

STRUCTURAL DRAWINGS

- S-001 STANDARD NOTES, SYMBOLS AND ABBREVIATIONS
- S-002 STANDARD DETAILS
- S-003 STANDARD DETAILS
- S-004 STANDARD DETAILS
- S-005 STANDARD DETAILS
- S-006 STANDARD DETAILS
- S-101 CLINTON STORAGE FACILITY - OVERALL PLAN
- S-102 CLINTON STORAGE FACILITY - PILE PLAN
- S-103 WEST CHAMBER - LOWER PLAN
- S-104 WEST CHAMBER - INTERMEDIATE PLAN
- S-105 CLINTON STORAGE FACILITY - FIRST FLOOR PLAN
- S-106 CLINTON STORAGE FACILITY - LOWER ROOF PLAN
- S-107 CLINTON STORAGE FACILITY - UPPER ROOF PLAN
- S-108 CLINTON STORAGE FACILITY - OVERALL SECTIONS
- S-109 CLINTON STORAGE FACILITY - OVERALL SECTIONS
- S-110 CLINTON STORAGE FACILITY - PARTIAL SECTIONS

- S-111 CLINTON STORAGE FACILITY - PARTIAL SECTIONS
- S-112 WEST CHAMBER - SECTIONS
- S-113 WEST CHAMBER - SECTIONS
- S-114 WEST CHAMBER - SECTIONS
- S-115 WEST CHAMBER - PERSONNEL EQUIPMENT PLATFORM
- S-116 MISCELLANEOUS PLATFORM DETAILS
- S-117 WEST CHAMBER - SECTIONS
- WS-118 OVERALL SECTIONS STRUCTURAL
- WS-119 OVERALL SECTIONS STRUCTURAL
- WS-120 WEST CHAMBER - INVERT SECTION 1
- WS-121 WEST CHAMBER - INVERT SECTION 2
- WS-122 WEST CHAMBER - INVERT SECTION 3
- WS-123 WEST CHAMBER - INVERT SECTION 4
- WS-124 WEST CHAMBER - INVERT SECTION 5
- WS-125 WEST CHAMBER - INVERT SECTION 6
- S-201 EAST CHAMBER - LOWER AND INTERMEDIATE PLANS
- S-202 EAST CHAMBER - FIRST FLOOR PLAN
- S-203 EAST CHAMBER - SECTIONS
- S-204 EAST CHAMBER - SECTIONS
- S-205 EAST CHAMBER - SECTIONS
- S-301 OVERFLOW CHANNEL - PLANS
- S-302 OVERFLOW CHANNEL - SECTIONS
- WS-401 BOX CULVERT/TUNNEL GENERAL LAYOUT
- WS-402 BOX CULVERT/TUNNEL GENERAL LAYOUT
- WS-403 BOX CULVERT/TUNNEL LONGITUDINAL SECTION
- WS-404 BOX CULVERT/TUNNEL LONGITUDINAL SECTION
- WS-405 TUNNEL REINFORCING ZONE 1A
- WS-405A TUNNEL REINFORCING ZONE 1B
- WS-406 TUNNEL REINFORCING ZONE 2
- WS-407 TUNNEL REINFORCING ZONE 3
- WS-407A TUNNEL REINFORCING ZONE 3A
- WS-408 TUNNEL REINFORCING ZONE 4
- WS-409 TUNNEL REINFORCING ZONE 5
- WS-410 TUNNEL REINFORCING ZONE 6
- WS-411 TUNNEL REINFORCING ZONE 7
- WS-412 EAST CHAMBER/TUNNEL - PART PLAN @ EL 352.0
- WS-413 TUNNEL DETAILS
- WS-414 TUNNEL DETAILS

MECHANICAL DRAWINGS:

- M-001 SYMBOLS AND ABBREVIATIONS
- M-002 HYDRAULIC PROFILE
- M-003 MISCELLANEOUS DETAILS
- M-004 MISCELLANEOUS DETAILS
- M-005 MISCELLANEOUS DETAILS
- M-100 WEST CHAMBER - LOWER PLAN
- M-101 WEST CHAMBER - INTERMEDIATE PLAN
- M-102 CLINTON STORAGE FACILITY - FIRST FLOOR PLAN
- M-103 WEST CHAMBER - SECTION
- M-104 WEST CHAMBER - SECTION
- M-105 WEST CHAMBER - SECTION
- M-106 WEST CHAMBER - SECTIONS
- M-107 WEST CHAMBER - SECTION
- M-108 WEST CHAMBER - SECTION
- M-109 DEWATERING PUMP STATION - PLAN AND SECTIONS
- M-200 EAST CHAMBER - LOWER PLAN
- M-201 EAST CHAMBER - INTERMEDIATE PLAN
- M-202 EAST CHAMBER - FIRST FLOOR PLAN
- M-203 EAST CHAMBER - SECTION
- M-204 EAST CHAMBER - SECTIONS

INSTRUMENTATION DRAWINGS:

- I-001 P&ID LEGEND
- I-101 CLINTON STORAGE FACILITY - SCADA ARCHITECTURE
- I-102 LEVEL MONITORING MANHOLE AND MOUNTING DETAILS
- I-103 INSTRUMENTATION DETAILS
- I-104 SURVEILLANCE AND INTRUSION DETAILS
- I-105 CLINTON STORAGE FACILITY P&ID
- I-106 CLINTON STORAGE FACILITY P&ID

ELECTRICAL DRAWINGS:

- E-001 ABBREVIATIONS, SYMBOLS, AND NOTES
- E-002 CONSTRUCTION DETAILS
- E-003 CONSTRUCTION DETAILS
- E-004 DUCTBANKS AND MISCELLANEOUS DETAILS
- E-005 LIGHTING SPECIFICATIONS
- E-006 LIGHTING SPECIFICATIONS
- E-007 ELECTRICAL SITE PLAN
- E-008 CONVEYANCE AND OFF-SITE ELECTRICAL SITE PLANS
- E-009 INCOMING ELECTRICAL SERVICE PROFILE
- E-101 WEST CHAMBER INTERMEDIATE LEVEL POWER AND LIGHTING PLAN
- E-102 CLINTON STORAGE FACILITY POWER PLAN
- E-103 CLINTON STORAGE FACILITY LIGHTING PLAN
- E-104 CLINTON STORAGE FACILITY FIRE ALARM, INTRUSION, AND TELEPHONE SYSTEM PLAN
- E-105 CLINTON STORAGE FACILITY ROOF PLAN
- E-201 EAST CHAMBER INTERMEDIATE LEVEL POWER AND LIGHTING PLAN
- E-202 EAST ENTRANCE STRUCTURE POWER AND LIGHTING PLANS
- E-401 ONE-LINE DIAGRAM
- E-402 SWITCHGEAR AND SWITCHBOARD ELEVATIONS AND SCHEDULES
- E-403 MCC ELEVATIONS AND SCHEDULES
- E-404 PANELBOARD SCHEDULES
- E-405 PANELBOARD SCHEDULES
- E-406 PROCESS ELEMENTARY AND SCHEMATIC DIAGRAMS
- E-407 PROCESS ELEMENTARY AND SCHEMATIC DIAGRAMS
- E-408 H&V ELEMENTARY AND SCHEMATIC DIAGRAMS
- E-409 H&V ELEMENTARY AND SCHEMATIC DIAGRAMS
- E-410 H&V ELEMENTARY AND SCHEMATIC DIAGRAMS
- E-411 H&V ELEMENTARY AND SCHEMATIC DIAGRAMS
- E-412 FIRE ALARM AND TELEPHONE SYSTEM RISER DIAGRAMS
- E-500 COVER SHEET- "AS BUILT" DWGS.
- E-501 EFFLUENT PUMP 131
- E-502 EFFLUENT PUMP 132
- E-503 EFFLUENT PUMP 133
- E-504 DEWATERING PUMP 121
- E-505 DEWATERING PUMP 122
- E-506 BLOWER #1
- E-507 BLOWER #2
- E-508 BLOWER #3
- E-509 MUAU-1
- E-510 MUAU-2
- E-511 MUAU-3 & ILF-2 - EAST ENTRANCE STRUCTURE
- E-512 VENT FAIL CONTROL PANEL - WEST STORAGE BLDG.
- E-513 VENT FAIL CONTROL PANEL - EAST ENTRANCE STRUCTURE
- E-514 SLUICE GATES - WEST STORAGE BLDG & EAST ENTRANCE STRUCTURE

HVAC DRAWINGS:

- H-001 STORAGE FACILITY AND EAST STRUCTURE - ABBREVIATIONS & SYMBOLS
- H-101 WEST CHAMBER - INTERMEDIATE LEVEL PLAN
- H-102 CLINTON STORAGE FACILITY - GRADE LEVEL PLAN
- H-103 CLINTON STORAGE FACILITY - ROOF PLAN
- H-104 CLINTON STORAGE FACILITY - GRADE LEVEL ENLARGED PLAN
- H-105 CLINTON STORAGE FACILITY - SECTIONS
- H-106 CLINTON STORAGE FACILITY - SECTIONS
- H-107 CLINTON STORAGE FACILITY - SECTIONS
- H-201 EAST CHAMBER - INTERMEDIATE LEVEL PLAN
- H-202 EAST ENTRANCE - GRADE LEVEL PLAN
- H-203 EAST ENTRANCE STRUCTURE - SECTIONS
- H-204 EAST ENTRANCE STRUCTURE - SECTIONS
- H-301 STORAGE FACILITY & EAST STRUCTURE - DETAILS
- H-302 STORAGE FACILITY & EAST STRUCTURE - SCHEDULES
- H-303 STORAGE FACILITY & EAST STRUCTURE - SCHEDULES
- H-304 BOILER CONTROL DIAGRAM
- H-305 MAKE UP AIR UNIT (MUAU) CONTROL DIAGRAMS
- H-306 BOILER B-1 THRU B-5 - PIPING SCHEMATIC
- H-307 STORAGE FACILITY & EAST STRUCTURE - AIR BALANCE DIAGRAMS

PLUMBING DRAWINGS:

- P-001 STORAGE FACILITY & EAST STRUCTURE - ABBREVIATIONS & SYMBOLS
- P-101 WEST CHAMBER - LOWER AND INTERMEDIATE LEVEL PLAN
- P-102 CLINTON STORAGE FACILITY - GRADE LEVEL STORMWATER DRAINAGE PLAN
- P-103 CLINTON STORAGE FACILITY - GRADE LEVEL WATER & DRAINAGE PLAN
- P-104 CLINTON STORAGE FACILITY - ENLARGED WATER & DRAINAGE PLAN
- P-105 CLINTON STORAGE FACILITY - SECTIONS
- P-201 EAST CHAMBER - INTERMEDIATE LEVEL PLAN
- P-202 EAST ENTRANCE STRUCTURE - GRADE LEVEL PLAN
- P-301 STORAGE FACILITY & EAST STRUCTURE - DETAILS
- P-302 STORAGE FACILITY & EAST STRUCTURE - SCHEDULES
- P-303 CLINTON STORAGE FACILITY - WATER PIPING SCHEMATIC
- P-304 STORAGE FACILITY - DRAINAGE PIPING SCHEMATIC

L: ON=*; OFF=*REF*
X:
03/03/11 GHD RWS
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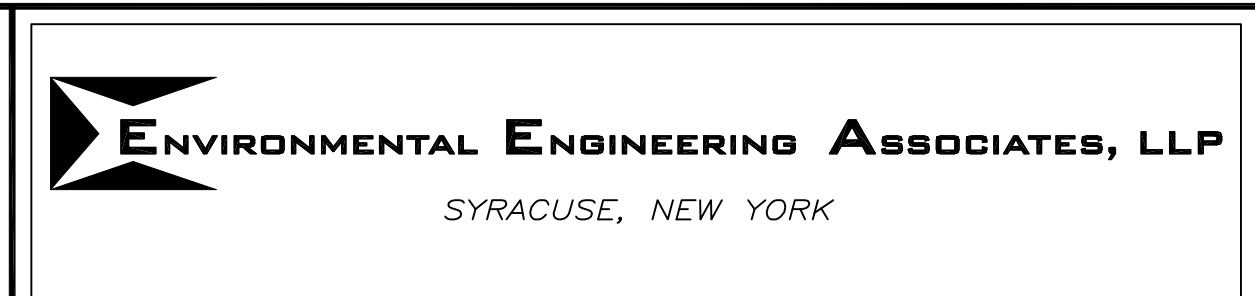
SCALE: NONE

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW


In charge of ___ RCF
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Drawn by ___ RWS
Checked by ___ RCF



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

INDEX OF DRAWINGS

GENERAL



File Number
00663

Date
04/11

G-001

Gerald S. Hood

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

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LEGEND:

	ABOVEGROUND STRUCTURE
	BELOWGROUND STRUCTURE
	PAVEMENT
	SIDEWALK
	SANITARY SEWER LINE
	STORM SEWER LINE
	SANITARY FORCE MAIN
	POTABLE WATER MAIN
	PLANT WATER MAIN
	WATER MAIN
	CHAIN LINK FENCE
	TEMPORARY CONSTRUCTION FENCE
	SILT FENCE
	REGRADED CONTOUR
	LIMITS OF CONSTRUCTION
	GAS LINE
	SWALE DRAINAGE
	PERMANENT/TEMPORARY EASEMENT AND FEE PARCEL
	EXISTING FEATURE TO BE ABANDONED OR REMOVED
	BOLLARD
	BULKHEAD
	CLEAN OUT
	CATCH BASIN
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	UTILITY POLE
	LIGHT POLE
	WATER VALVE
	FIRE HYDRANT
	SURVEY CONTROL POINT

EXISTING LEGEND:

	EXISTING GAS LINE
	EXISTING SANITARY FORCE MAIN
	EXISTING PROPERTY LINE
	EXISTING POTABLE WATER MAIN
	EXISTING PLANT WATER MAIN
	EXISTING SANITARY SEWER LINE
	EXISTING RIGHT OF WAY
	EXISTING STORM SEWER LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING OVERHEAD UTILITY LINE
	EXISTING OVERHEAD ELECTRIC & UTILITY LINE
	EXISTING CHAIN LINK FENCE
	EXISTING WOOD FENCE
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF WATER
	EXISTING CONTOUR
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND TELEPHONE
	EXISTING SPOT ELEVATION
	EXISTING SOIL/TEST BORING
	EXISTING CATCH BASIN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING MONITORING WELL
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING HYDRANT
	EXISTING TEST EXCAVATION
	EXISTING WATER VALVE
	EXISTING BUILDING STRUCTURE
	EXISTING BRUSH LINE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING ROAD SIGN
	EXISTING LIGHT POST
	EXISTING BOLLARD
	EXISTING SEWER VENT
	EXISTING GAS VENT
	EXISTING PUMPING/TEST WELL

FLOW STREAM DESIGNATIONS:

ACS	WEST ONONDAGA ST - EAST CONVEYANCE SEWER
COMB	COMBINED SEWER
EFF	EFFLUENT
DFM	DEWATERING FORCE MAIN
ECD	EMERGENCY CONTROLLED DIVERSION
G	GAS
JCS	WEST JEFFERSON STREET CONVEYANCE SEWER
MIS	MAIN INTERCEPTOR SEWER
MST	MAIN INTERCEPTOR SEWER TAP
PLW	PLANT WATER
PW	POTABLE WATER
SAN	SANITARY SEWER
SPD	SUMP PUMP DISCHARGE
ST	STORM SEWER
TCS	TULLY STREET CONVEYANCE SEWER
W	WATER
WCS	WEST STREET CONVEYANCE SEWER
WSCS	WEST STREET CONVEYANCE SEWER

PIPE MATERIAL:

CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CARBON STEEL
DIP	DUCTILE IRON PIPE
GS	GALVANIZED STEEL
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
SS	STAINLESS STEEL

ABBREVIATIONS:

BLDG	BUILDING
BC	BOTTOM OF CURB
BS	BOTTOM OF SLOPE
CB	CATCH BASIN
CL	CENTERLINE
CLF	CHAIN LINK FENCE
C.O.	CLEAN OUT
CSO	COMBINED SEWER OVERFLOW
CRS	CONTROLLED RELEASE STRUCTURE
CY	CUBIC YARD
ø or DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DWG	DRAWING
E. PAV'T	EDGE OF PAVEMENT
ELEC.	ELECTRIC, ELECTRICAL
EL	ELEVATION
EX	EXISTING
FM	FORCE MAIN
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HDS	HYDRODYNAMIC SEPERATOR
HOW	HEADWALL
INV	INVERT
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NG	NATIONAL GRID
NPT	NATIONAL PIPE THREAD
PVMT	PAVEMENT
P.E.	PERMANENT EASEMENT
PEP	PERSONNEL ENTRY POINT
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PL	PROPERTY LINE
ROW	RIGHT OF WAY
SF	SILT FENCE
SPC	SPECIAL PROJECT CONDITIONS
STA	STATION
STL	STEEL
T.E.	TEMPORARY EASEMENT
TC	TOP OF CURB
TS	TOP OF SLOPE
TYP	TYPICAL
UNK	UNKNOWN
UON	UNLESS OTHERWISE NOTED
WV	WATER VALVE
WWF	WELDED WIRE FABRIC

- GENERAL:**
- UNDERGROUND FACILITIES, STRUCTURE, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND TYPE OF USE MUST BE CONSIDERED APPROXIMATE ONLY. OTHER UNDERGROUND STRUCTURES AND UTILITIES MAY EXIST, THE LOCATIONS OF WHICH ARE PRESENTLY UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITY LOCATIONS, AND SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE AND OWNER OF CONDITION IF FOUND DIFFERENT.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PERTINENT TO THE WORK OF THIS CONTRACT IN THE FIELD.
 - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE CAUSED BY HIS OPERATIONS TO EXISTING UTILITIES AND FACILITIES WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITIES WHICH ARE NOT A PART OF THE INTENDED WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION OPERATIONS WITH THE WORK OF OTHER CONTRACTS AND ANY AND ALL OTHER CONSTRUCTION ACTIVITIES WHICH MAY BE OCCURRING SIMULTANEOUSLY IN THE VICINITY OF THE WORK.
 - OVERHEAD WIRES ARE DEPICTED ON SEVERAL DRAWINGS. ONLY THE MORE SIGNIFICANT OVERHEAD WIRES ARE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY AND ASCERTAIN ACTUAL CONDITIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE POLICE, HOSPITALS, SYRACUSE DPW, LOCAL SCHOOLS, 911 EMERGENCY, CENTRO AND FIRE DEPARTMENTS TO INFORM THEM OF CONSTRUCTION ACTIVITIES ON THIS PROJECT ON A WEEKLY BASIS.
 - THE CONTRACTOR SHALL OBTAIN APPROVALS FOR ALL SITES FOR SPOIL AND DEBRIS DISPOSAL. THE CONTRACTOR SHALL PROVIDE WRITTEN APPROVAL FOR USE OF SUCH SITES TO THE OWNER PRIOR TO ANY REMOVAL OF MATERIAL FROM THE SITE.
 - GENERALLY, STREETS WITH CURBS HAVE CONCRETE ROAD BASES, STREETS WITH NO CURBS HAVE ASPHALT ROAD BASES.
 - THE CONTRACTOR SHALL ADJUST NEW AND EXISTING VALVE BOXES, MANHOLE COVERS, CATCH BASIN COVERS, AND OTHER FACILITIES AS REQUIRED TO MATCH FINISHED LINES AND GRADES. CONTRACTOR SHALL ALSO PROVIDE POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM SANITARY MANHOLES.
 - THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY ADDITIONAL SURVEY DATA REQUIRED FOR THE CONSTRUCTION OF ALL ELEMENTS OF THIS PROJECT.

- PROTECTION OF EXISTING DRAINAGE FACILITIES:**
- ALL EXISTING COMBINED DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS AND FOREIGN MATTER AND OPERATIONAL THROUGHOUT THE DURATION OF THE CONTRACT.
 - UPON COMPLETION OF THE CONTRACT WORK, ALL PROPOSED DRAINAGE SYSTEMS AND EXISTING DRAINAGE SYSTEMS TO REMAIN WITHIN THE LIMITS OF THIS CONTRACT SHALL BE CLEANED TO ATTAIN THEIR FULL FLOW CAPABILITIES AND SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE AS SUFFICIENTLY CLEANED. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL CLEANING DEBRIS.
 - THE LOCATION AND SIZE OF EXISTING FACILITIES ARE FROM ACTUAL FIELD MEASUREMENTS, LIMITED FIELD RECONNAISSANCE OR PLANS OF RECORD. ALL FACILITIES WHICH ARE TO REMAIN OR BE MODIFIED FOR REUSE UNDER THIS CONTRACT SHALL BE FIELD VERIFIED AS TO ACTUAL LOCATION, ELEVATIONS, SIZE, TYPE AND CONDITION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE WHO SHALL DETERMINE IF MODIFICATIONS TO THE PLANS ARE REQUIRED.

- EARTHWORK**
- ALL ORGANIC MATERIAL SHALL BE CLEARED FROM THE SITE. TOPSOIL MAY BE STOCKPILED FOR REUSE IF OF ACCEPTABLE QUALITY.
 - EXISTING MATERIAL TO REMAIN AS SUBGRADE SHALL BE PROTECTED FROM DISTURBANCE. IF NOT PROTECTED AND/OR DISTURBED BY THE CONTRACTOR FOR ANY REASON, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED TYPE E MATERIAL AT NO COST TO THE OWNER.

- WORK ON COMBINED & SANITARY SEWERS:**
- CONTRACTOR SHALL NOT DIRECT SURFACE OR SUBSURFACE WATER TO THE SANITARY SEWER SYSTEM WITHOUT WRITTEN PERMISSION AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DISPOSAL OF WATER.
 - SEE SPECIFICATION SECTION 02190 FOR DETAILED REQUIREMENTS RELATED TO THE MAINTENANCE OF SEWAGE FLOWS.
 - THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES WITHIN THE SEWER ROUTE. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO LOCATE UTILITIES IN THE PROPOSED SEWER ROUTE. POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE OWNER'S REPRESENTATIVE ATTENTION IMMEDIATELY.

- EROSION CONTROL:**
- REFER TO SPECIFICATION SECTION 02370 FOR DETAILS REGARDING SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR'S ATTENTION IS ALSO DIRECTED TO THE REQUIREMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN AS DESCRIBED IN THE SPECIAL PROJECT CONDITIONS SECTION OF THE CONTRACT DOCUMENTS.
 - EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL.
 - SOIL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED AND FULLY FUNCTIONAL PRIOR TO ANY SITE DISTURBANCE. FACILITIES SHALL BE FULLY MAINTAINED DURING CONSTRUCTION.
 - ALL ROADWAYS SHALL BE KEPT CLEAN. FILL SHALL NOT BE SPILLED ONTO THE ROADWAY. ALL SPILLED MATERIALS SHALL BE PROMPTLY REMOVED.
 - SOIL EROSION AND SEDIMENT CONTROL FACILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION AND REMOVED (WHERE NECESSARY OR APPLICABLE) UPON COMPLETION OF CONSTRUCTION.
 - THE AREAS OF CONSTRUCTION SHALL REMAIN IN STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROL FACILITIES SHALL BE MONITORED AND MAINTAINED, REPAIRED OR REPLACED IF NECESSARY.
 - STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION BY USE OF INLET PROTECTION OR OTHER APPROVED MEANS.
 - SOIL STOCKPILE AREAS ARE TO BE SURROUNDED WITH SILT FENCING, OR OTHER EROSION CONTROL MEASURES OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR TO PROVIDE APPROVED DUST CONTROL MEASURES. THE CONTRACTOR SHALL HAVE A WATER TRUCK OR OTHER ACCEPTABLE MEANS OF CONTROLLING DUST AVAILABLE AT ALL TIMES.

PROTECTION OF UTILITIES:

- THE APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE TRUE LOCATION PRIOR TO COMMENCING WORK. BEFORE ANY PIPE IS INSTALLED, THE CONTRACTOR SHALL UNCOVER ALL UTILITIES AT PIPE CROSSINGS TO ENABLE THE OWNER'S REPRESENTATIVE TO VERIFY THE PROPOSED PIPE WITH GRADES SHOWN ON THE PLANS IS NOT OBSTRUCTED BY EXISTING UTILITIES. DIG SAFELY AT 1-800-962-7962 SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATING, PROTECTION, RELOCATION, AND/OR MAINTENANCE OF UNDERGROUND AND OVERHEAD UTILITIES WHICH MAY BE IMPACTED DURING CONSTRUCTION. ALL UTILITIES, UNLESS STATED OTHERWISE, SHALL REMAIN FUNCTIONAL DURING THE PROGRESSION OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK AFFECTING UTILITIES WITH THE RESPECTIVE UTILITY SERVICE PROVIDER. ALL DETAILS OF CONSTRUCTION AND/OR RELOCATION SHALL BE APPROVED BY THE UTILITY SERVICE PROVIDER AND OTHER APPROVING AGENCIES IF REQUIRED.
- THE CONTRACTOR SHALL VERIFY LOCATION, SIZE AND JOINT TYPE OF EXISTING PIPES AT CONNECTION LOCATIONS PRIOR TO CONSTRUCTION.
- ALL PIPE ELEVATIONS GIVEN ARE INVERT ELEVATIONS, UNLESS SPECIFIED OTHERWISE.
- EXISTING PIPELINES OR MANHOLES/STRUCTURES TO BE ABANDONED SHALL BE PLUGGED AT EACH END IF APPLICABLE AND FILLED WITH FLOWABLE FILL.
- THE CONTRACTOR SHALL NOTIFY RESIDENCES AND/OR BUSINESSES TO BE AFFECTED BY HIS CONSTRUCTION ACTIVITIES IN WRITING ONE WEEK PRIOR TO CONSTRUCTION AND 48 HOURS PRIOR TO SHUTDOWN OF SEWER AND/OR WATER SERVICES.

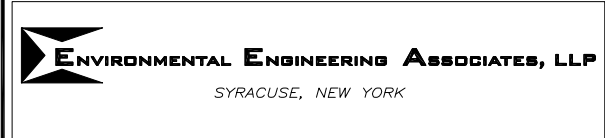
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SCALE: NONE

1	05/16	RECORD DRAWINGS	
No.	Date	Revisions	Init

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

In charge of RCF
 Designed by RWS
 Drawn by RWS
 Checked by RCF



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

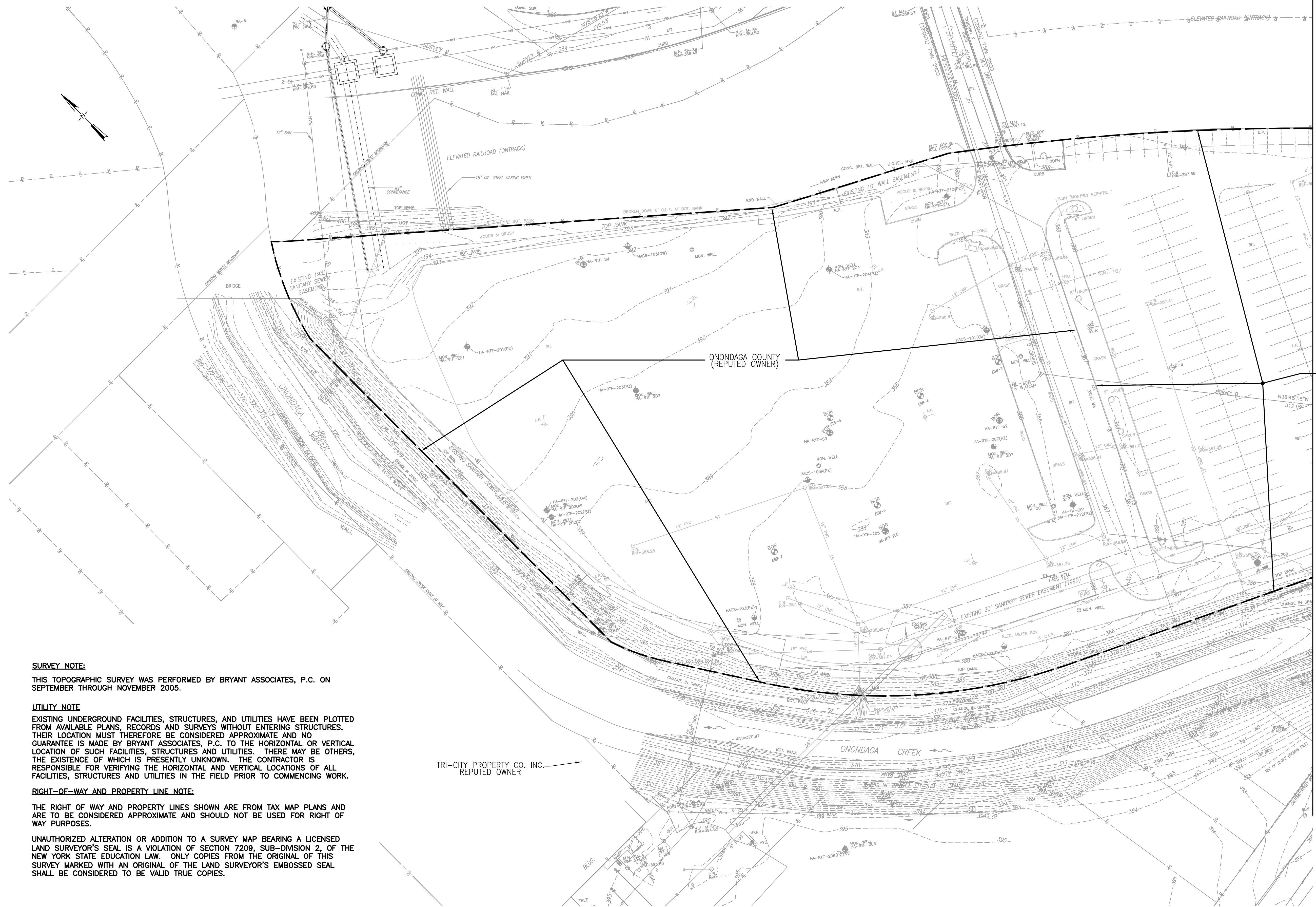
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
 GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 05/16 PER: RCF

File Number	00663
Date	04/11

G-002

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SURVEY NOTE:

THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY BRYANT ASSOCIATES, P.C. ON SEPTEMBER THROUGH NOVEMBER 2005.

UTILITY NOTE

EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE PLANS, RECORDS AND SURVEYS WITHOUT ENTERING STRUCTURES. THEIR LOCATION MUST THEREFORE BE CONSIDERED APPROXIMATE AND NO GUARANTEE IS MADE BY BRYANT ASSOCIATES, P.C. TO THE HORIZONTAL OR VERTICAL LOCATION OF SUCH FACILITIES, STRUCTURES AND UTILITIES. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES, STRUCTURES AND UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK.

RIGHT-OF-WAY AND PROPERTY LINE NOTE:

THE RIGHT OF WAY AND PROPERTY LINES SHOWN ARE FROM TAX MAP PLANS AND ARE TO BE CONSIDERED APPROXIMATE AND SHOULD NOT BE USED FOR RIGHT OF WAY PURPOSES.

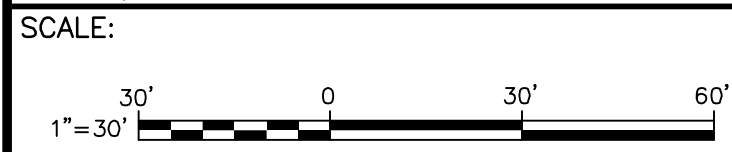
UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

TRI-CITY PROPERTY CO. INC.
REPUTED OWNER

MATCHLINE (G-004)

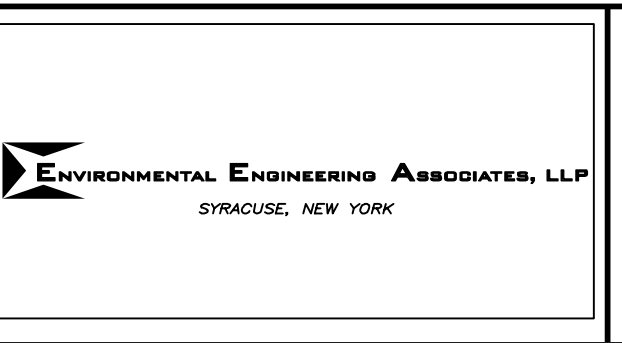
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8/19/10 B&L GRR
1079003/CST-G-003.DWG



No.	Date	Revisions	Init
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW			

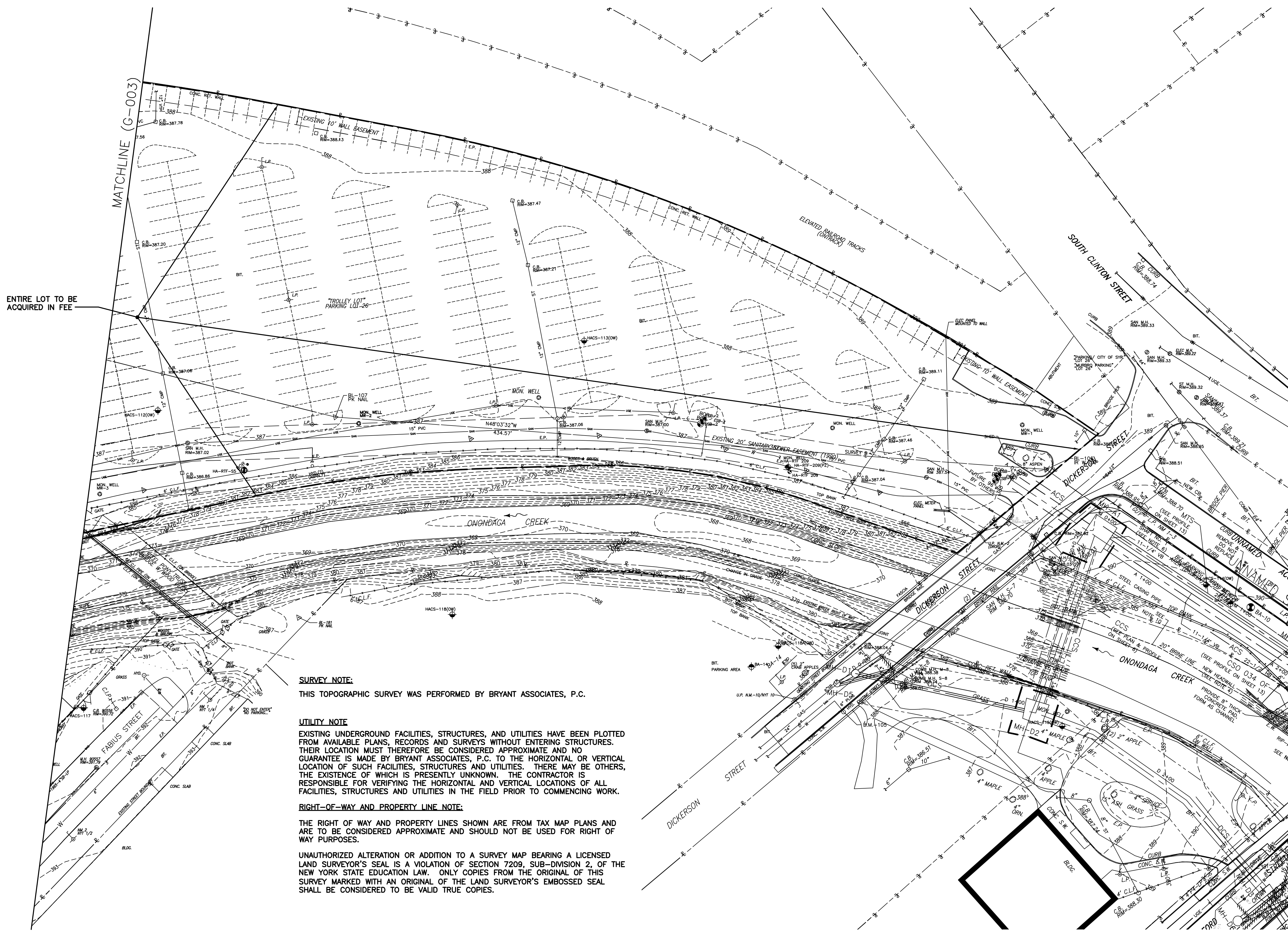
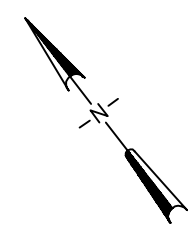
In charge of KMK
Designed by BRYANT
Drawn by GRR
Checked by LMM



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT
EXISTING SITE PLAN 1
GENERAL



File Number 006.63	G-003
Date 04/11	



ENTIRE LOT TO BE ACQUIRED IN FEE

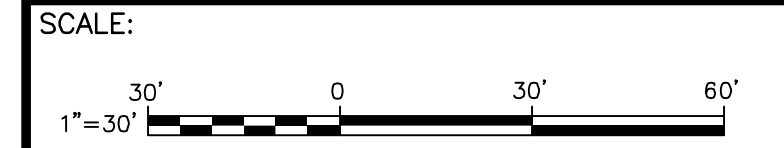
SURVEY NOTE:
THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY BRYANT ASSOCIATES, P.C.

UTILITY NOTE
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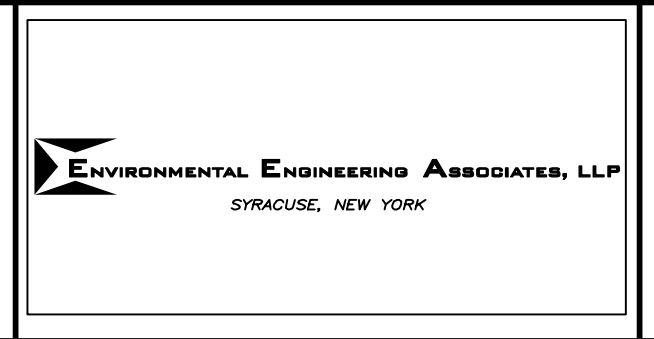
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1079003/CST--G-004.DWG



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No.	Date	Revisions	Init
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

In charge of KMK
 Designed by BRYANT
 Drawn by GRR
 Checked by LMM



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

EXISTING SITE PLAN 2

GENERAL



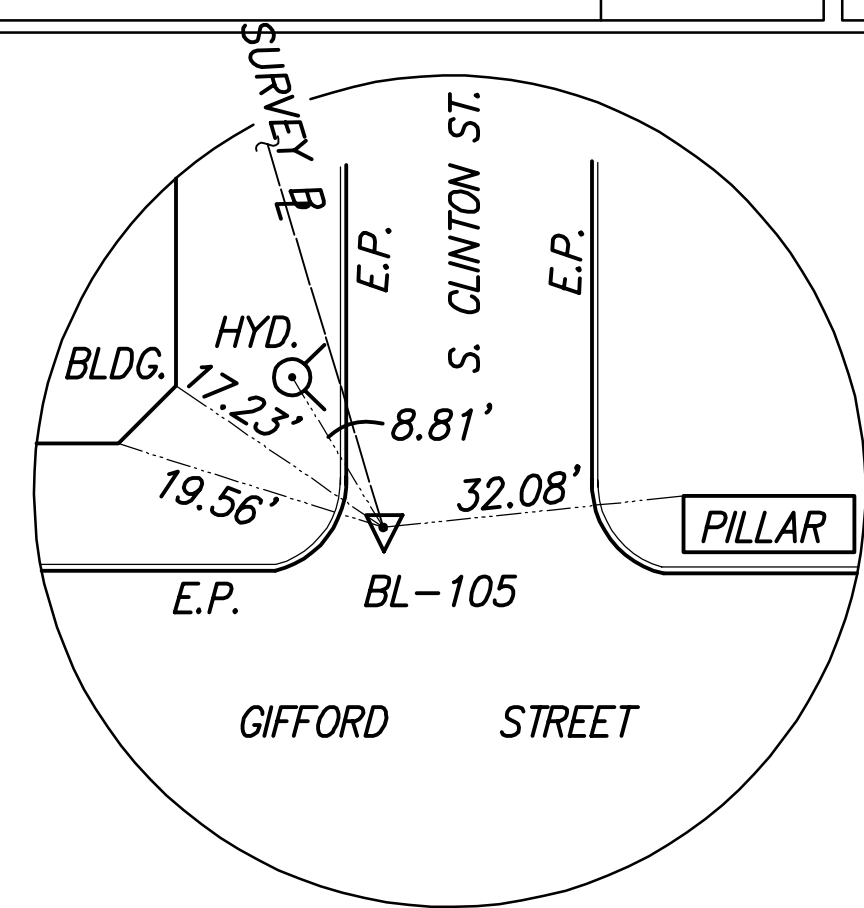
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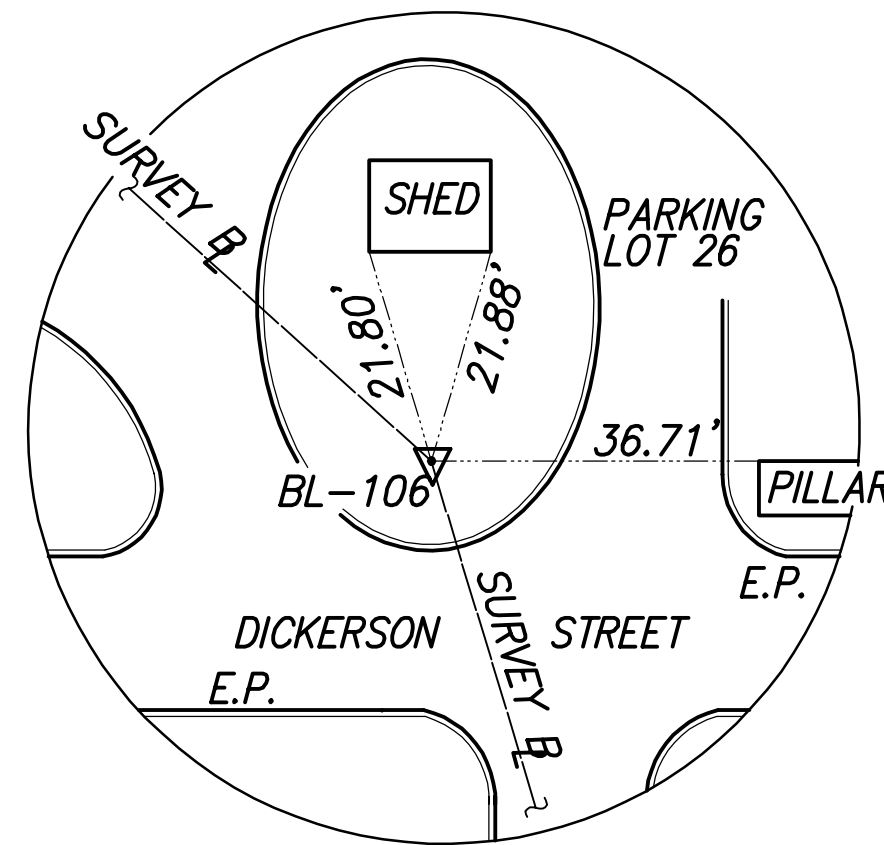
NUMBER	DESCRIPTION	ELEVATION	NUMBER	DESCRIPTION	ELEVATION
B.M.-101	IS A CHISELED "X" SET ON A BONNET BOLT OF A FIRE HYDRANT UNDER THE "O" IN "OPEN". IT IS LOCATED ON THE EASTERLY SIDE OF WEST ST. 50' +/- NORTH OF WEST JEFFERSON ST.	397.80	B.M.-106	IS A CHISELED "X" SET ON A NUT ON RING CONNECTING TO A PIPE OF A FIRE HYDRANT. LOCATED AT THE CORNER OF GIFFORD ST. AND WESTERLY SIDE OF ACCESS RD. TO TROLLEY LOT (RUNS PARALLEL TO RAILROAD TRACKS).	390.89
B.M.-102	IS A CHISELED "X" SET ON A BONNET BOLT UNDER THE "E" IN "OPEN" OF A FIRE HYDRANT. IT IS LOCATED ON THE EASTERLY SIDE OF WEST ST. ARTERIAL 25' +/- NORTH OF TULLY ST.	398.08	B.M.-107	IS A CHISELED "X" SET ON A NUT ON RING CONNECTING TO A PIPE OF A FIRE HYDRANT. EASTERLY SIDE OF HYDRANT, 100' +/- WEST OF RR X-ING, SOUTHERLY SIDE OF ACCESS RD. TO TROLLEY LOT (26).	388.14
B.M.-103	IS A CHISELED "X" SET ON A BONNET BOLT AT POINT ARROW OF A FIRE HYDRANT. IT IS LOCATED ON THE EASTERLY SIDE OF WEST ST. ARTERIAL AT THE CORNER OF FABIVS ST. NEXT TO FIREHOUSE NO. 6.	398.98	B.M.-108	IS THE CL OF COLUMN F.F. BETWEEN DOUBLE ENTRANCES 75' +/- SOUTHERLY OF BL 109 AT ARMORY BUILDING ACROSS FROM 269 W. JEFFERSON ST.	389.15
B.M.-104	IS A CHISELED "X" SET ON A BONNET BOLT ABOVE THE "TH" IN "MATHews" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHERLY SIDE OF FABIVS ST. AND THE EASTERLY SIDE OF GRANGER ST.	396.71	B.M.-109	IS A CHISELED "X" SET ON A BONNET BOLT BETWEEN THE ARROW AND THE "K" IN "KENNEDY" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHERLY SIDE OF WALTON ST. 200' +/- WEST OF ONONDAGA CREEK.	392.91
B.M.-105	IS A CHISELED "X" SET ON THE NORTHERLY MOST BONNET BOLT BETWEEN THE "S" IN "MATHews" AND THE "E" IN "MINER" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHERLY SIDE OF DICKERSON STREET 25' +/- WEST OF ONONDAGA CREEK.	390.91	B.M.-110	IS A CHISELED "X" SET ON A BONNET BOLT UNDER THE "P" IN "OPEN" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHEAST CORNER OF WALTON ST./W. FAYETTE ST. INTERSECTION, 150' +/- WEST OF ONONDAGA CREEK.	393.22

SURVEY NOTE:

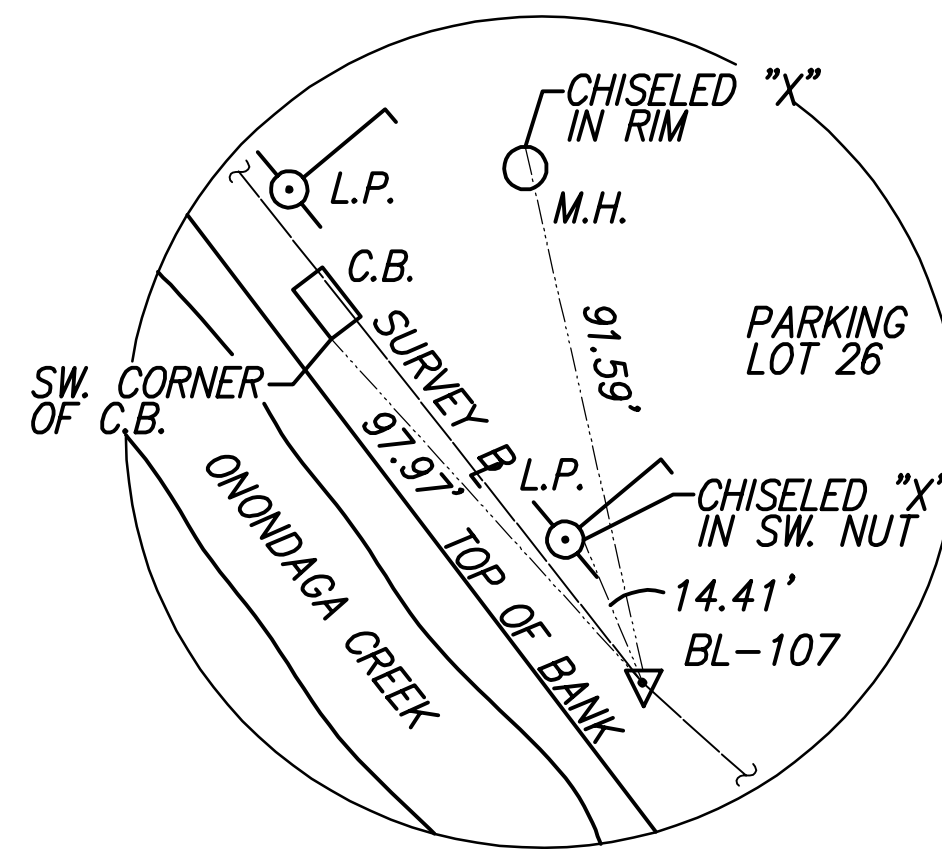
BASELINE TIES AND BENCHMARKS ESTABLISHED BY BRYANT ASSOCIATES, P.C. IN 2005.



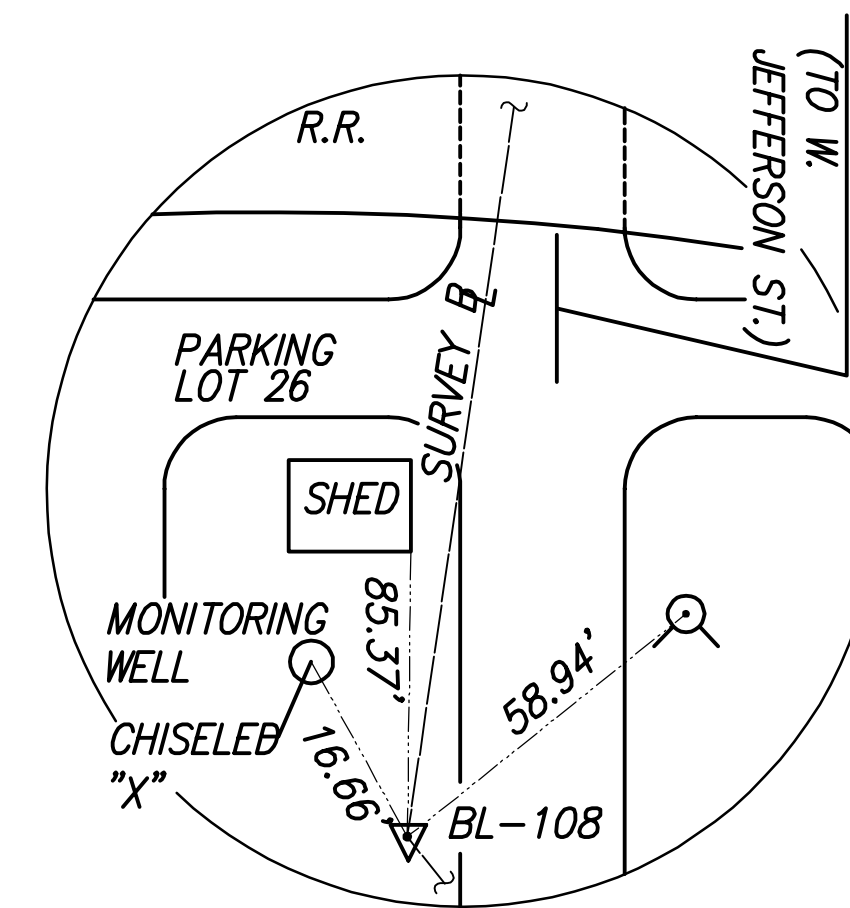
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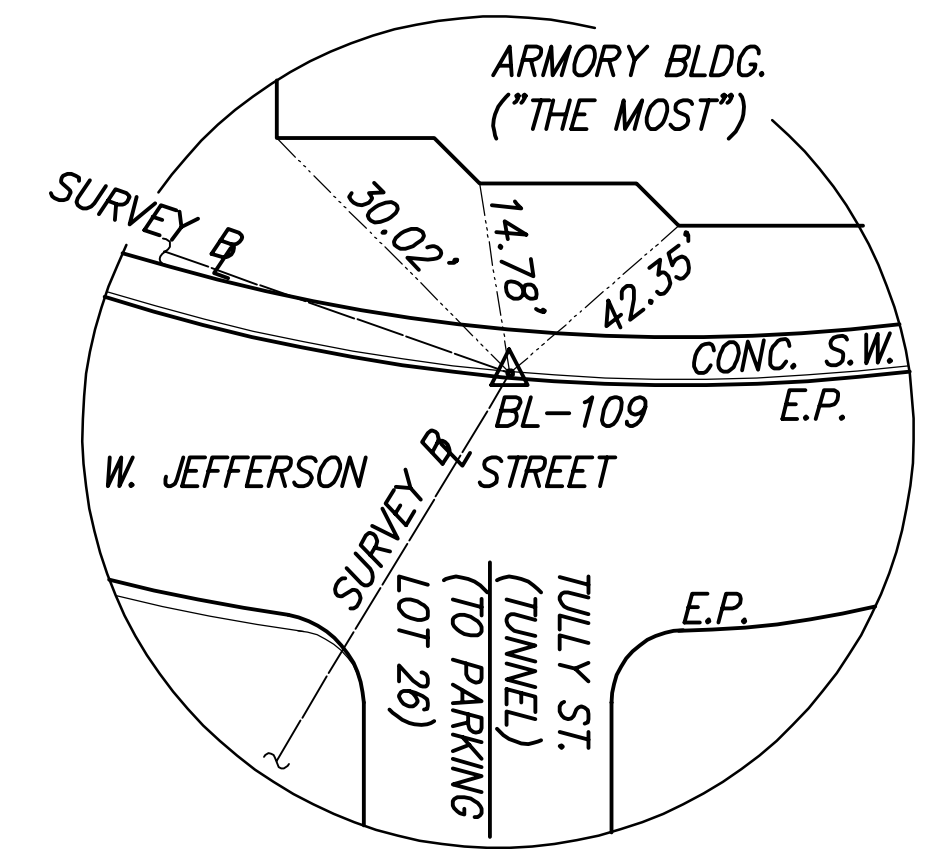
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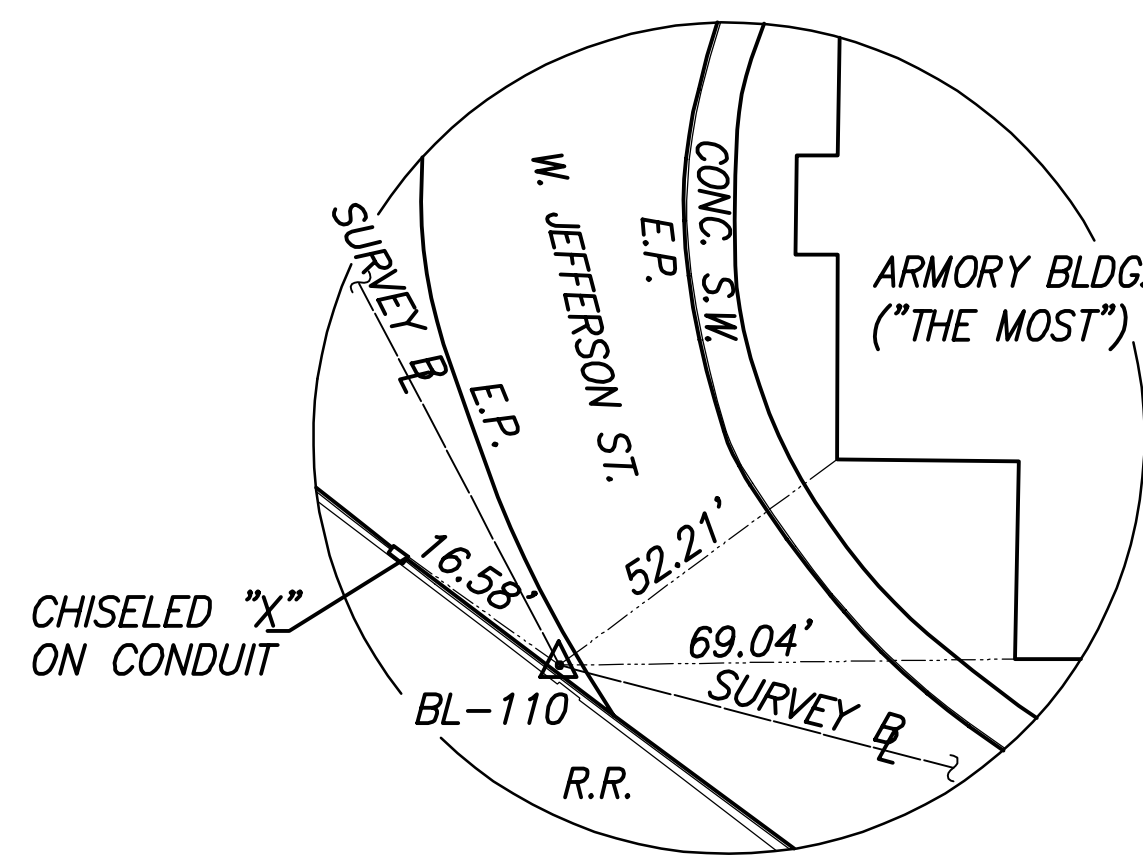
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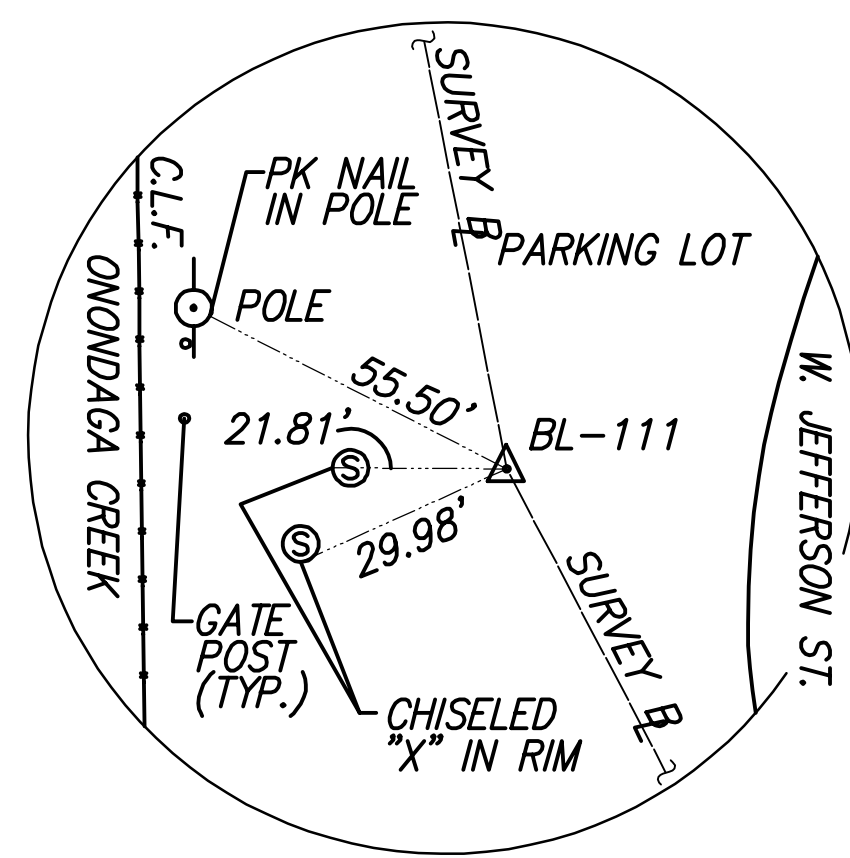
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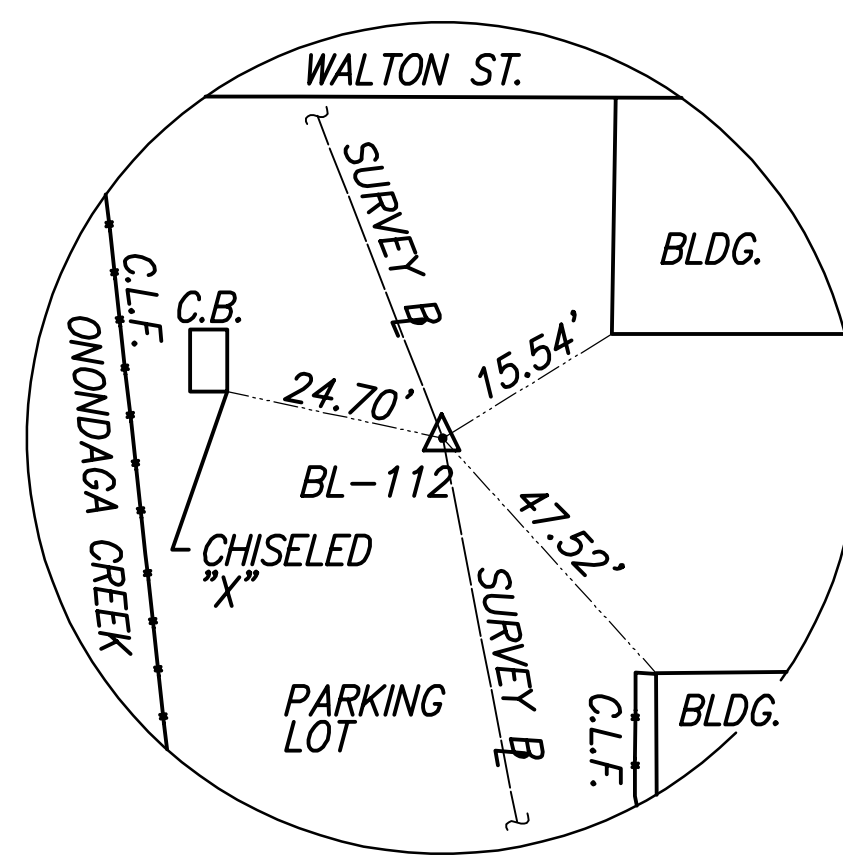
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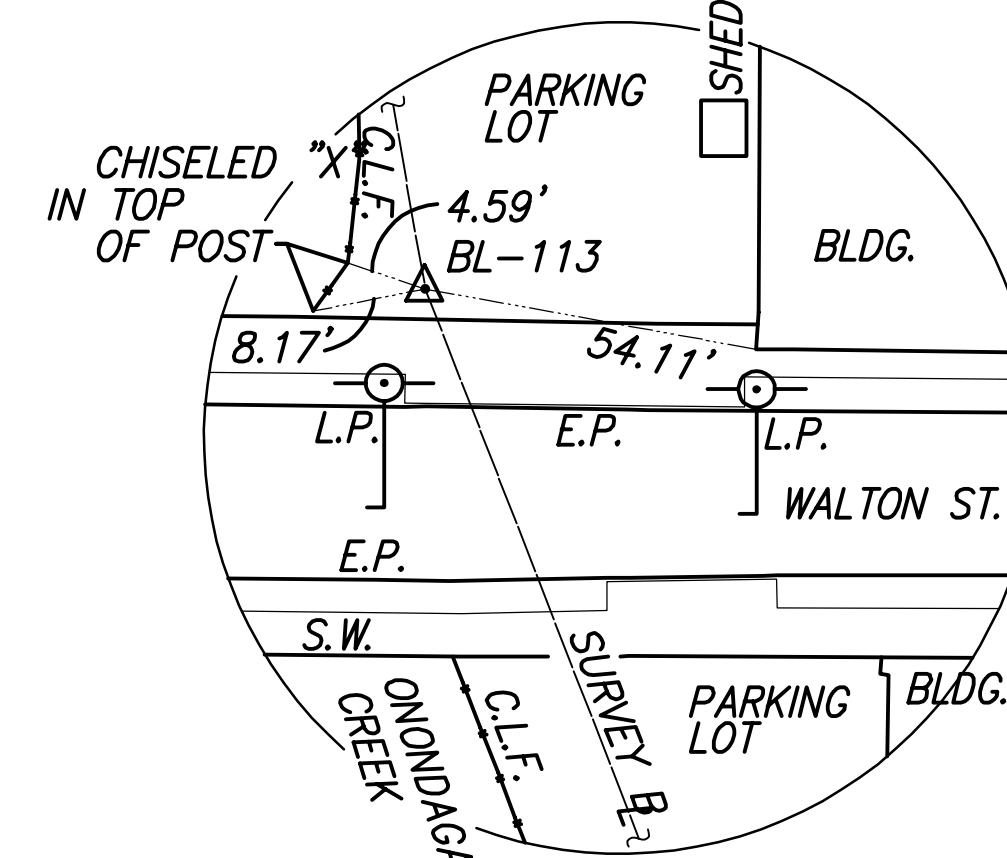
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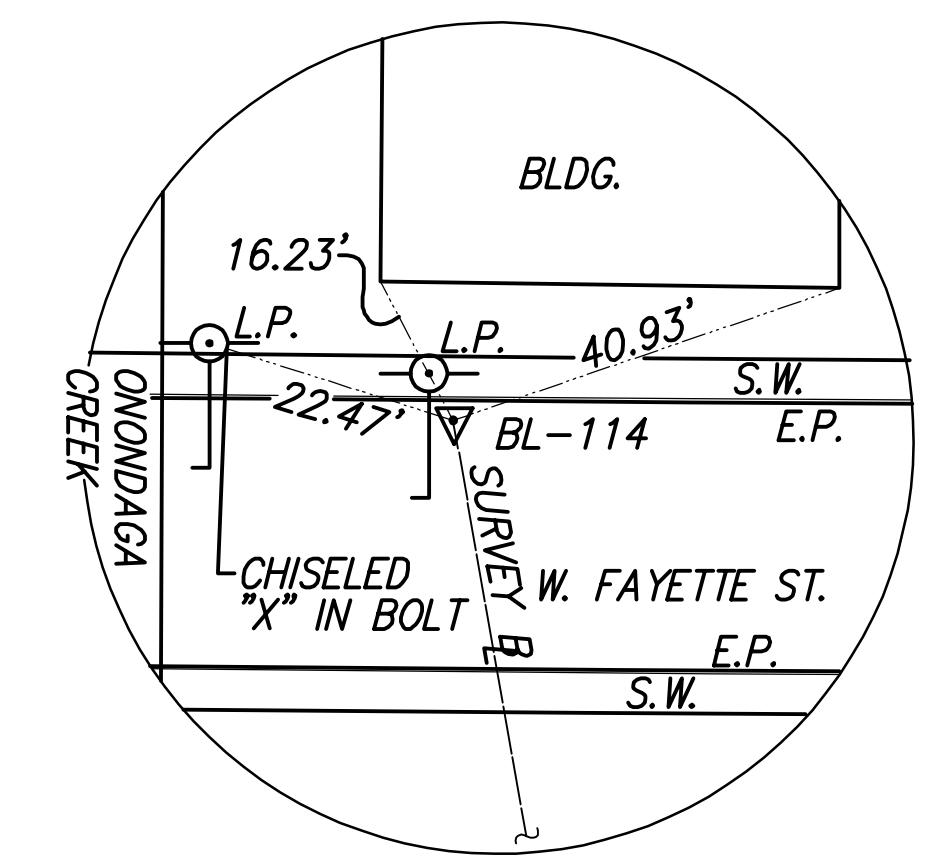
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SURVEY BASELINE TIE DIAGRAMS

NOT TO SCALE

KMK

8/20/10 B&L GRR
1079003/CST-G-005.DWG

SCALE:

NOT TO SCALE

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2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

In charge of KMK
Designed by BRYANT
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

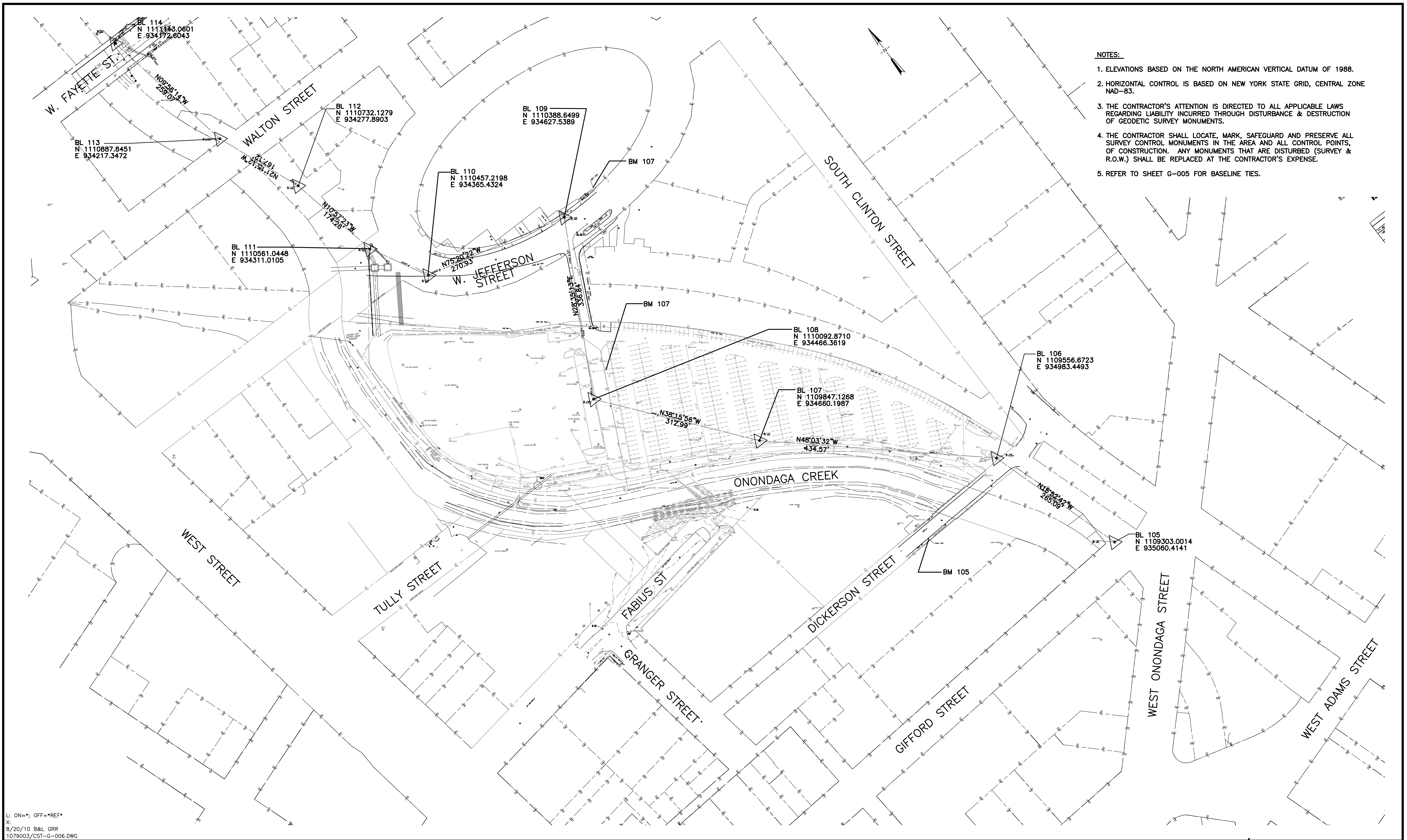
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

BASELINE TIES & BENCHMARKS

GENERAL

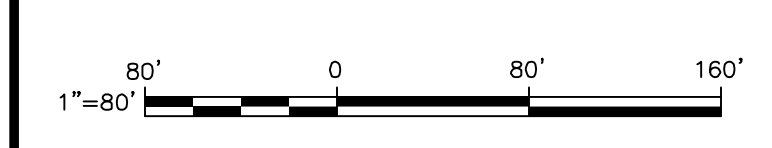


File Number 006.63	G-005
Date 04/11	



- NOTES:**
- ELEVATIONS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - HORIZONTAL CONTROL IS BASED ON NEW YORK STATE GRID, CENTRAL ZONE NAD-83.
 - THE CONTRACTOR'S ATTENTION IS DIRECTED TO ALL APPLICABLE LAWS REGARDING LIABILITY INCURRED THROUGH DISTURBANCE & DESTRUCTION OF GEODETIC SURVEY MONUMENTS.
 - THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS IN THE AREA AND ALL CONTROL POINTS, OF CONSTRUCTION. ANY MONUMENTS THAT ARE DISTURBED (SURVEY & R.O.W.) SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - REFER TO SHEET G-005 FOR BASELINE TIES.

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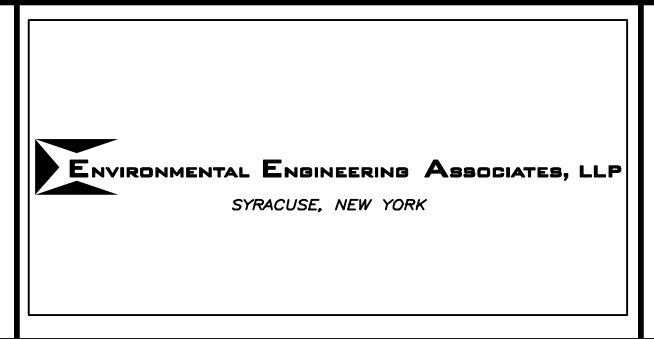


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In charge of LMM
 Designed by BRYANT
 Drawn by GRR
 Checked by CAW



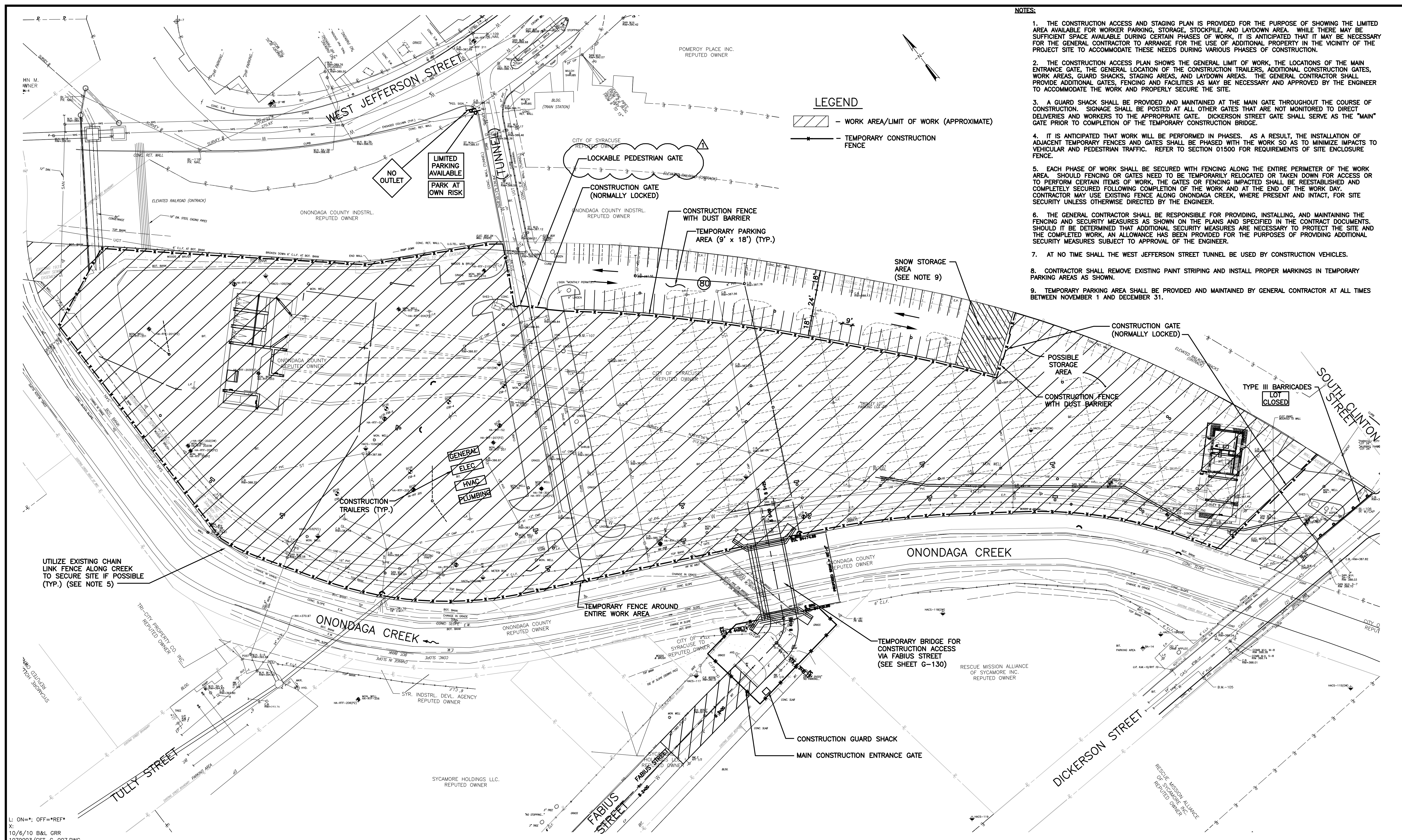
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

SURVEY BASELINE CONTROL

GENERAL



File Number	006.63
Date	04/11
G-006	



- NOTES:**
1. THE CONSTRUCTION ACCESS AND STAGING PLAN IS PROVIDED FOR THE PURPOSE OF SHOWING THE LIMITED AREA AVAILABLE FOR WORKER PARKING, STORAGE, STOCKPILE, AND LAYDOWN AREA. WHILE THERE MAY BE SUFFICIENT SPACE AVAILABLE DURING CERTAIN PHASES OF WORK, IT IS ANTICIPATED THAT IT MAY BE NECESSARY FOR THE GENERAL CONTRACTOR TO ARRANGE FOR THE USE OF ADDITIONAL PROPERTY IN THE VICINITY OF THE PROJECT SITE TO ACCOMMODATE THESE NEEDS DURING VARIOUS PHASES OF CONSTRUCTION.
 2. THE CONSTRUCTION ACCESS PLAN SHOWS THE GENERAL LIMIT OF WORK, THE LOCATIONS OF THE MAIN ENTRANCE GATE, THE GENERAL LOCATION OF THE CONSTRUCTION TRAILERS, ADDITIONAL CONSTRUCTION GATES, WORK AREAS, GUARD SHACKS, STAGING AREAS, AND LAYDOWN AREAS. THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL GATES, FENCING AND FACILITIES AS MAY BE NECESSARY AND APPROVED BY THE ENGINEER TO ACCOMMODATE THE WORK AND PROPERLY SECURE THE SITE.
 3. A GUARD SHACK SHALL BE PROVIDED AND MAINTAINED AT THE MAIN GATE THROUGHOUT THE COURSE OF CONSTRUCTION. SIGNAGE SHALL BE POSTED AT ALL OTHER GATES THAT ARE NOT MONITORED TO DIRECT DELIVERIES AND WORKERS TO THE APPROPRIATE GATE. DICKERSON STREET GATE SHALL SERVE AS THE "MAIN" GATE PRIOR TO COMPLETION OF THE TEMPORARY CONSTRUCTION BRIDGE.
 4. IT IS ANTICIPATED THAT WORK WILL BE PERFORMED IN PHASES. AS A RESULT, THE INSTALLATION OF ADJACENT TEMPORARY FENCES AND GATES SHALL BE PHASED WITH THE WORK SO AS TO MINIMIZE IMPACTS TO VEHICULAR AND PEDESTRIAN TRAFFIC. REFER TO SECTION 01500 FOR REQUIREMENTS OF SITE ENCLOSURE FENCE.
 5. EACH PHASE OF WORK SHALL BE SECURED WITH FENCING ALONG THE ENTIRE PERIMETER OF THE WORK AREA. SHOULD FENCING OR GATES NEED TO BE TEMPORARILY RELOCATED OR TAKEN DOWN FOR ACCESS OR TO PERFORM CERTAIN ITEMS OF WORK, THE GATES OR FENCING IMPACTED SHALL BE REESTABLISHED AND COMPLETELY SECURED FOLLOWING COMPLETION OF THE WORK AND AT THE END OF THE WORK DAY. CONTRACTOR MAY USE EXISTING FENCE ALONG ONONDAGA CREEK, WHERE PRESENT AND INTACT, FOR SITE SECURITY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE FENCING AND SECURITY MEASURES AS SHOWN ON THE PLANS AND SPECIFIED IN THE CONTRACT DOCUMENTS. SHOULD IT BE DETERMINED THAT ADDITIONAL SECURITY MEASURES ARE NECESSARY TO PROTECT THE SITE AND THE COMPLETED WORK, AN ALLOWANCE HAS BEEN PROVIDED FOR THE PURPOSES OF PROVIDING ADDITIONAL SECURITY MEASURES SUBJECT TO APPROVAL OF THE ENGINEER.
 7. AT NO TIME SHALL THE WEST JEFFERSON STREET TUNNEL BE USED BY CONSTRUCTION VEHICLES.
 8. CONTRACTOR SHALL REMOVE EXISTING PAINT STRIPING AND INSTALL PROPER MARKINGS IN TEMPORARY PARKING AREAS AS SHOWN.
 9. TEMPORARY PARKING AREA SHALL BE PROVIDED AND MAINTAINED BY GENERAL CONTRACTOR AT ALL TIMES BETWEEN NOVEMBER 1 AND DECEMBER 31.

LEGEND

▨ - WORK AREA/LIMIT OF WORK (APPROXIMATE)

— — — — — TEMPORARY CONSTRUCTION FENCE

L: ON=*; OFF=*REF*
 X:
 10/6/10 B&L GRR
 1079003/CST-G-007.DWG

SCALE:

1"=40'

0 40' 80'

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

No.	Date	Revisions	Initials
3	02/12	REVISED PER ADDENDA	KMK
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

In charge of KMK
 Designed by CAW
 Drawn by GRR, JJB2
 Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

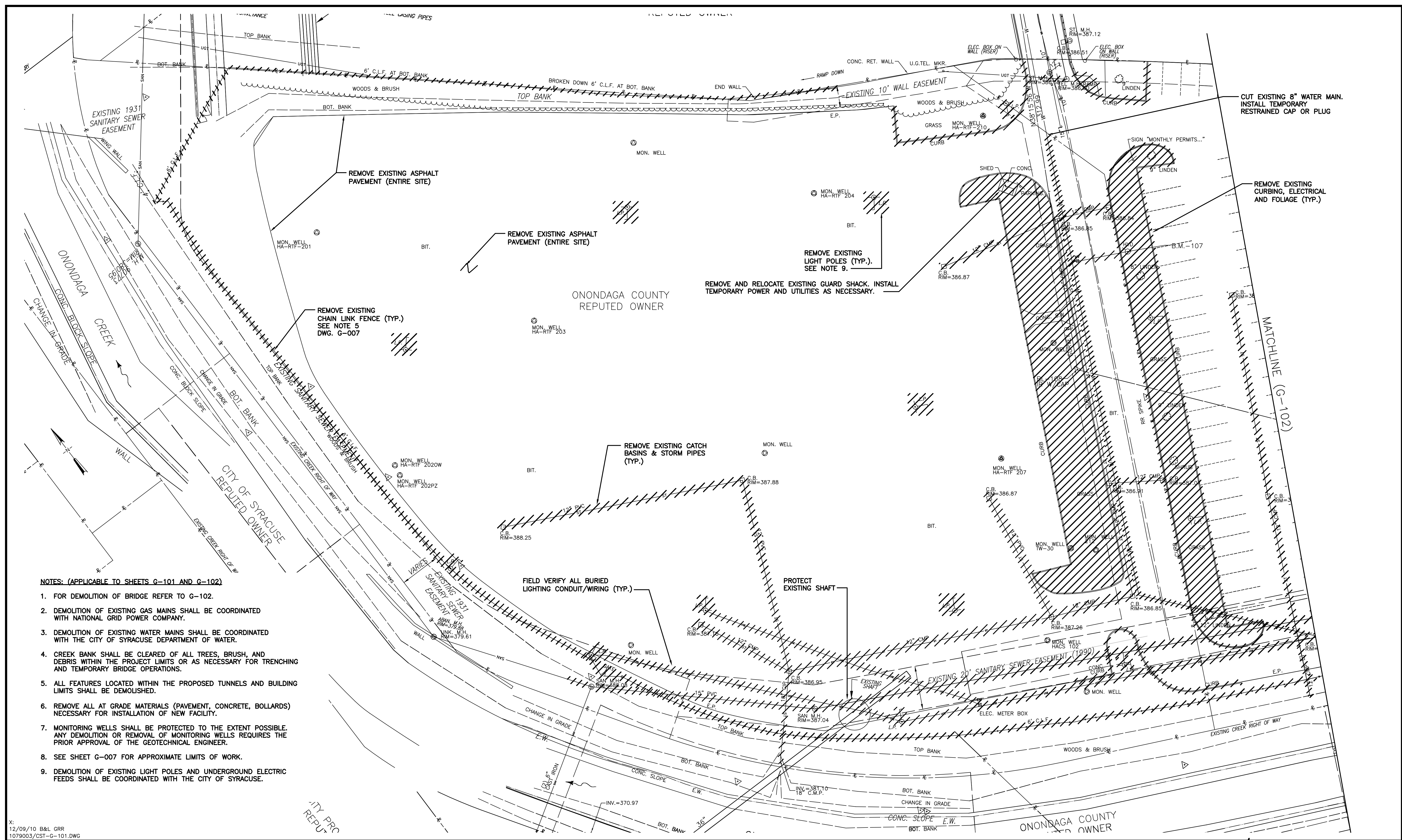
Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

**CONSTRUCTION ACCESS,
 SECURITY & STAGING PLAN**

GENERAL

	File Number	006.63	G-007
	Date	04/11	



- NOTES: (APPLICABLE TO SHEETS G-101 AND G-102)**
- FOR DEMOLITION OF BRIDGE REFER TO G-102.
 - DEMOLITION OF EXISTING GAS MAINS SHALL BE COORDINATED WITH NATIONAL GRID POWER COMPANY.
 - DEMOLITION OF EXISTING WATER MAINS SHALL BE COORDINATED WITH THE CITY OF SYRACUSE DEPARTMENT OF WATER.
 - CREEK BANK SHALL BE CLEARED OF ALL TREES, BRUSH, AND DEBRIS WITHIN THE PROJECT LIMITS OR AS NECESSARY FOR TRENCHING AND TEMPORARY BRIDGE OPERATIONS.
 - ALL FEATURES LOCATED WITHIN THE PROPOSED TUNNELS AND BUILDING LIMITS SHALL BE DEMOLISHED.
 - REMOVE ALL AT GRADE MATERIALS (PAVEMENT, CONCRETE, BOLLARDS) NECESSARY FOR INSTALLATION OF NEW FACILITY.
 - MONITORING WELLS SHALL BE PROTECTED TO THE EXTENT POSSIBLE. ANY DEMOLITION OR REMOVAL OF MONITORING WELLS REQUIRES THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
 - SEE SHEET G-007 FOR APPROXIMATE LIMITS OF WORK.
 - DEMOLITION OF EXISTING LIGHT POLES AND UNDERGROUND ELECTRIC FEEDS SHALL BE COORDINATED WITH THE CITY OF SYRACUSE.



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1	01/11	ISSUED FOR APPROVAL	KMK

In charge of KMK
 Designed by CAW
 Drawn by GRR
 Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

DEMOLITION PLAN 1

GENERAL



File Number
006.63
 Date
04/11

ONONDAGA COUNTY INDSTR.
REPUTED OWNER

MATCHLINE (G-101)

CITY OF SYRACUSE
REPUTED OWNER

STORM LINE TO REMAIN IN SERVICE
THROUGHOUT CONSTRUCTION
REFER TO SHEET G-133 FOR
FINAL CONFIGURATION. CONTRACTOR
TO COORDINATE TEMPORARY DRAINAGE
CONFIGURATIONS AS NEEDED AND WITHIN
TEMPORARY PARKING AREA.

TROLLEY LOT
PARKING LOT-26

REMOVE EXISTING ASPHALT
PAVEMENT (ENTIRE SITE)

REMOVE EXIST. BRIDGE

ONONDAGA COUNTY
REPUTED OWNER

ONONDAGA CREEK

CITY OF SYRACUSE TO
REPUTED OWNER

RESCUE MISSION ALLIANCE
OF SYCAMORE INC.
REPUTED OWNER

SYCAMORE
HOLDINGS LLC
REPUTED OWNER

CUT EXISTING 6" WATER
MAIN. INSTALL TEMPORARY
RESTRAINED CAP PRIOR TO
CONNECTION NO. 2

SOUTH CLINTON STREET

DICKERSON
STREET

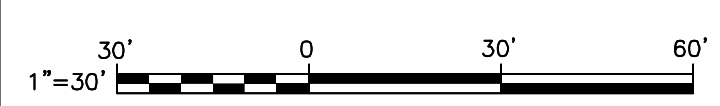
CITY OF SYRACUSE
REPUTED OWNER

POTAMIANOS
PROPERTIES LLC
REPUTED OWNER

NOTES:

1. COORDINATE STAGED DEMOLITION OF LIGHT POLES, UNDERGROUND ELECTRIC, AND ELECTRIC METER PANELS WITH CITY OF SYRACUSE AND NATIONAL GRID.
2. NOTE DRAWING SCALE CHANGE FROM SHEET G-101.

L: ON=*, OFF=*REF*
X:
12/09/10 B&L GRR
1079003/CST-G-102.DWG



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

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1	01/11	ISSUED FOR APPROVAL	KMK

In charge of KMK
Designed by CAW
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

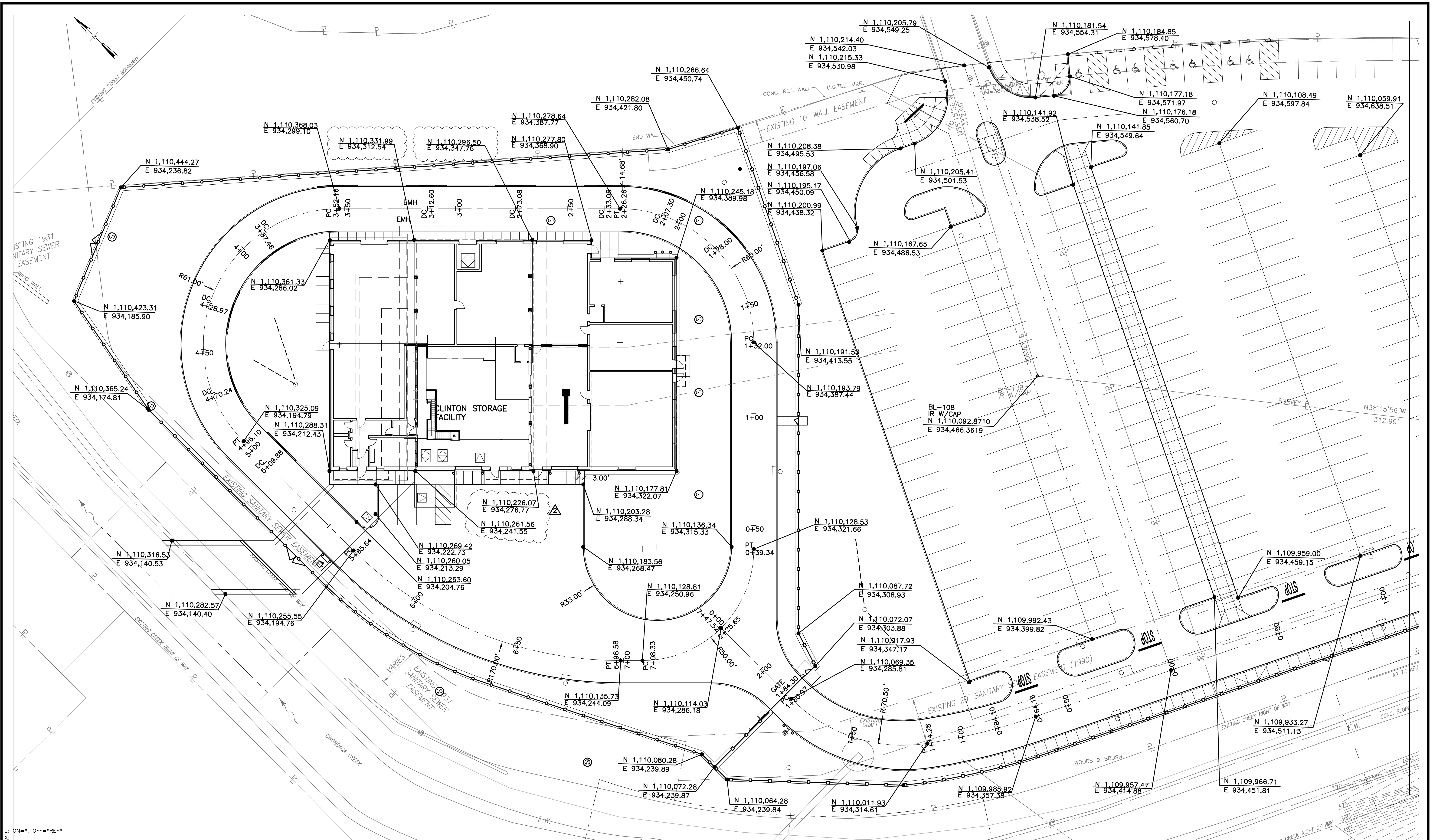
DEMOLITION PLAN 2

GENERAL



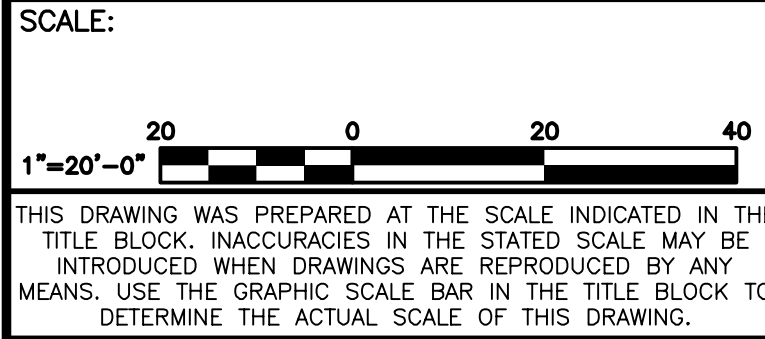
File Number	006.63
Date	04/11

G-102



L: DN=*, OFF=*REF*
 X:
 12/22/10 B&L PJZ
 1079003/CST-G-103.DWG

NOTE: BUILDING DIMENSIONS SHOW AT EXTERIOR WALL FACE.



In charge of	KMK
Designed by	CAW
Drawn by	PJZ
Checked by	LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

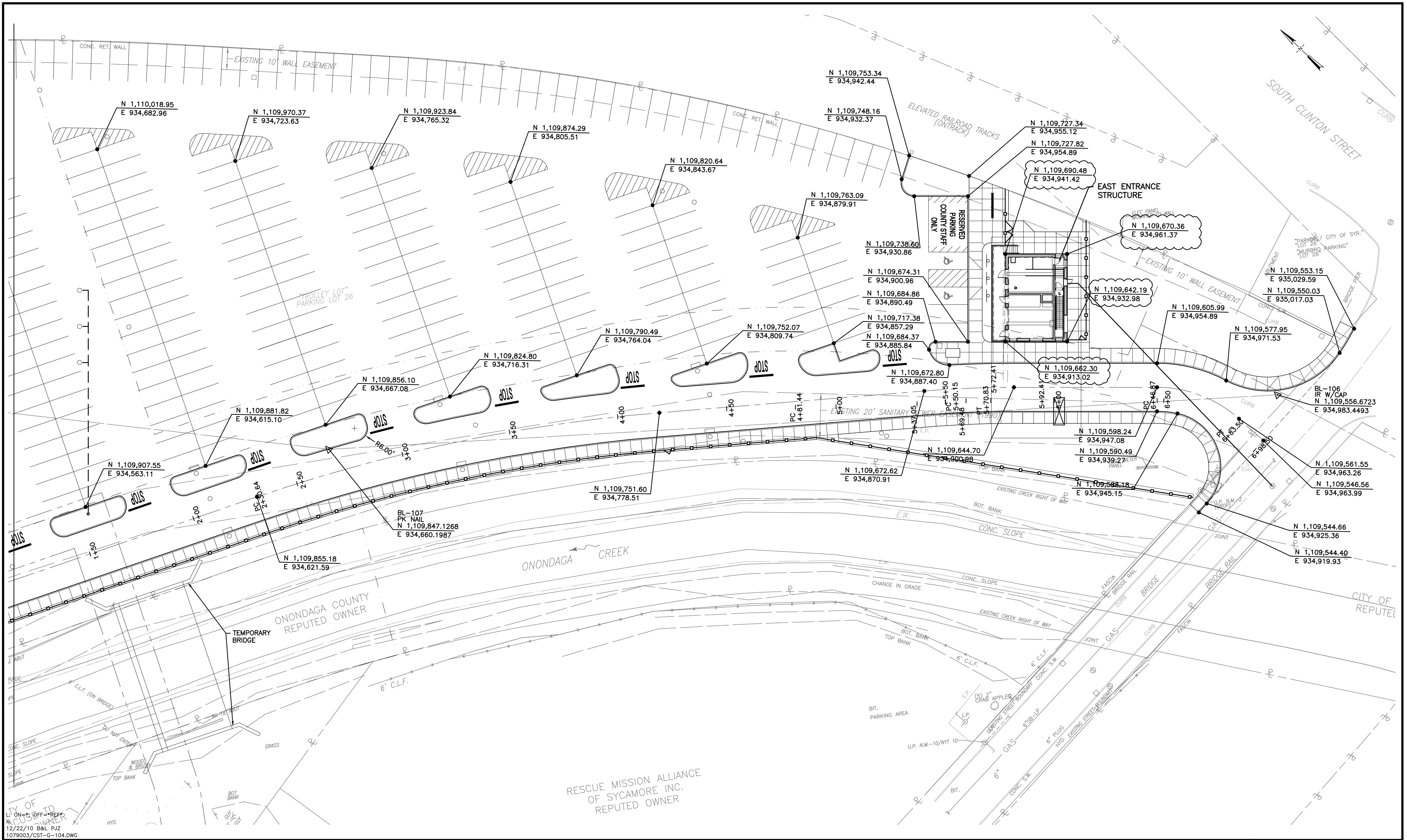
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

SITE COORDINATES 1

GENERAL

File Number	006.63
Date	04/11

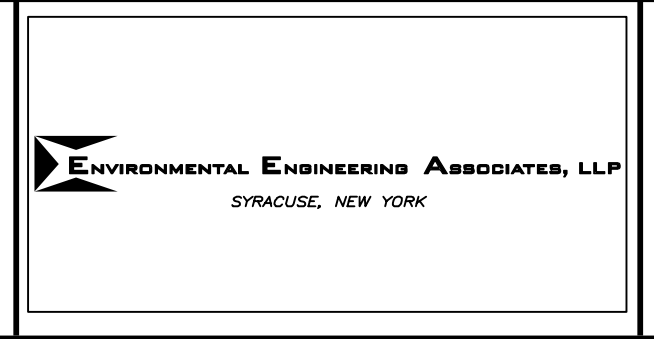
G-103



SCALE:
 1"=20'-0"
 0 20 40
 THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

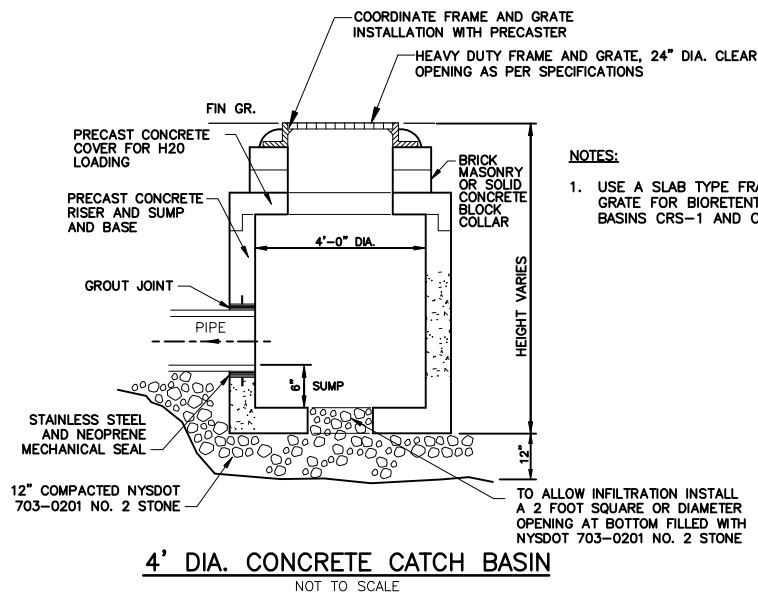
No.	Date	Revisions	Init
3	02/12	REVISED FOR CHANGE ORDER No. 1	KMK
2	04/11	AS BID	KMK
1	01/10	ISSUED FOR APPROVAL	KMK

In charge of KMK
 Designed by CAW
 Drawn by PJZ
 Checked by LMM



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT
SITE CORDINATES 2
 GENERAL

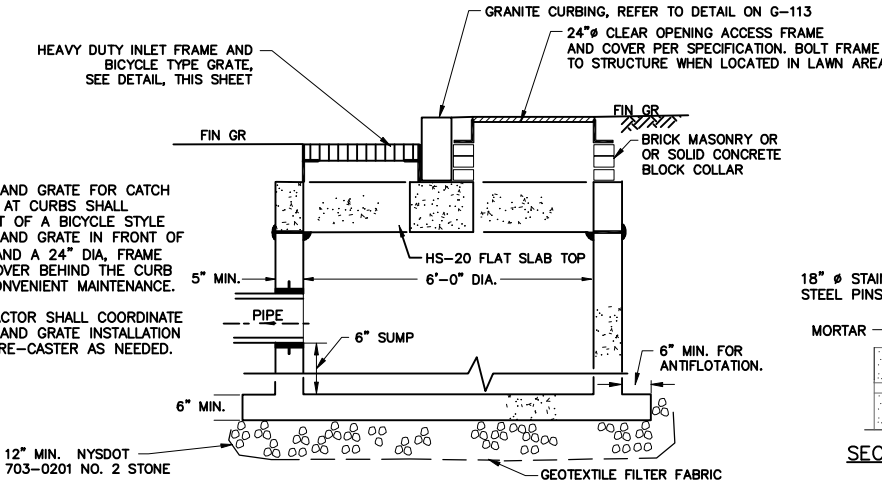
	File Number	006.63
	Date	04/11
		G-104



- NOTES:**
1. USE A SLAB TYPE FRAME AND GRATE FOR BIRETENTION BASINS CRS-1 AND CRS-2.

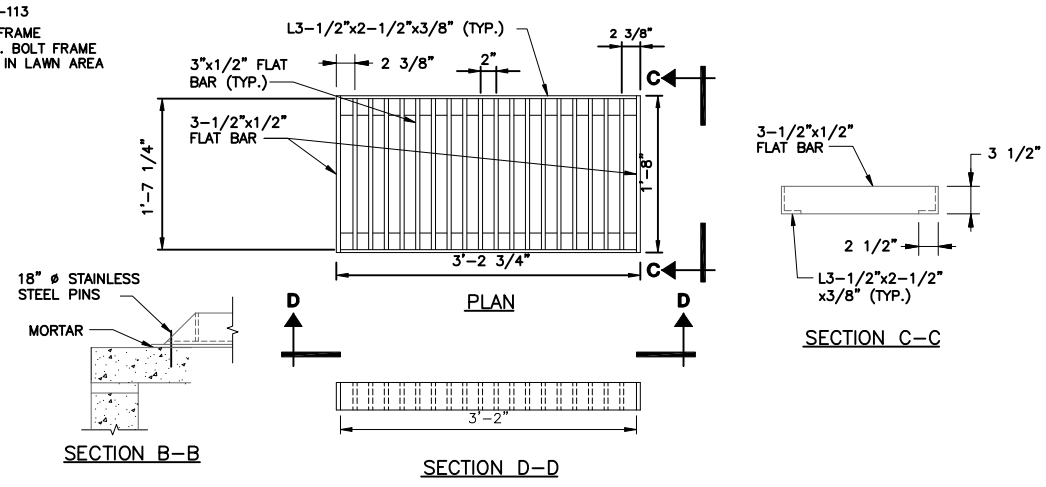
TO ALLOW INFILTRATION INSTALL A 2 FOOT SQUARE OR DIAMETER OPENING AT BOTTOM FILLED WITH NYS DOT 703-0201 NO. 2 STONE

4' DIA. CONCRETE CATCH BASIN
NOT TO SCALE



- NOTES:**
1. FRAME AND GRATE FOR CATCH BASINS AT CURBS SHALL CONSIST OF A BICYCLE STYLE FRAME AND GRATE IN FRONT OF CURB AND A 24\"/>
 - 2. CONTRACTOR SHALL COORDINATE FRAME AND GRATE INSTALLATION WITH PRE-CASTER AS NEEDED.

6' DIA. CATCH BASIN CURB INLET - SECTION A
NOT TO SCALE



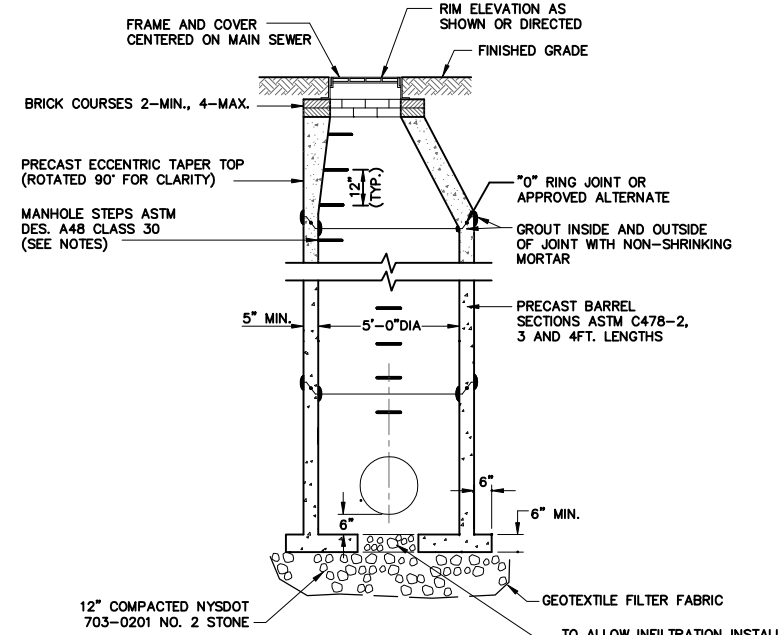
'BICYCLE TYPE' CATCH BASIN GRATE DETAIL
NOT TO SCALE

MANHOLE & CATCH BASIN NOTES

ON ALL PIPES, AT ALL MANHOLES AND OTHER UNDERGROUND STRUCTURES, TWO (2) PIPE JOINTS SHALL BE INSTALLED WITHIN 4'-0\"/>

STEPS SHALL BE FURNISHED FOR ALL MANHOLES IN ACCORDANCE WITH THE SPECIFICATIONS. ECCENTRIC CONES TO BE FURNISHED AND INSTALLED FOR ALL MANHOLES.

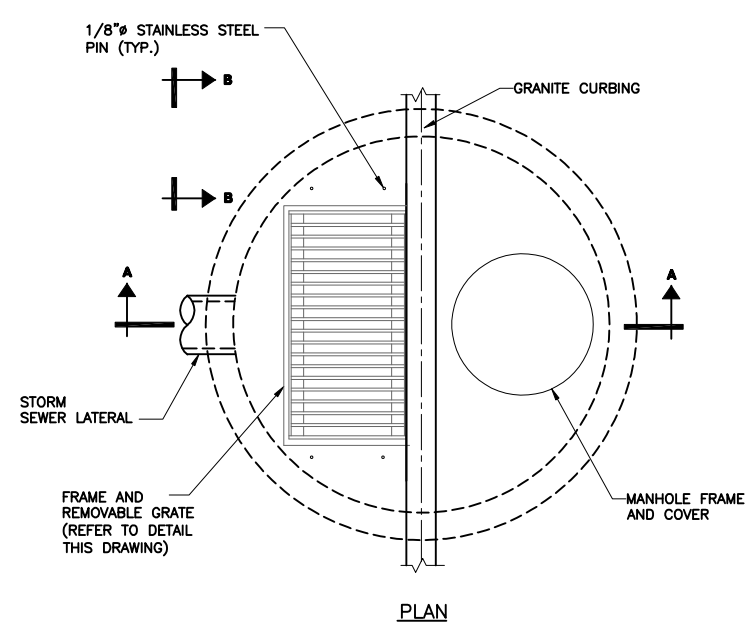
MANHOLE FRAMES ARE TO BE INSTALLED 3/8\"/>



5' DIA. DRAINAGE MANHOLE SECTION
NOT TO SCALE

DRAINAGE MANHOLE NOTES:

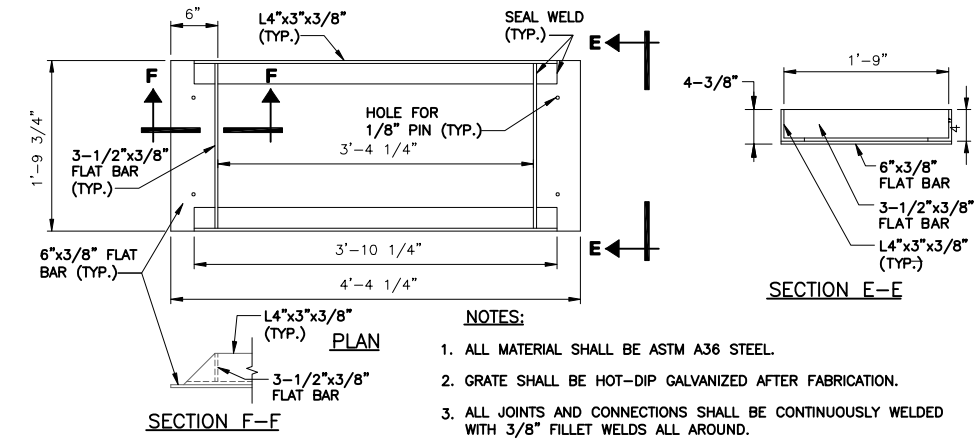
CONTRACTOR SHALL CONSTRUCT, AT NO EXTRA COST, MANHOLES WITH FLAT SLAB COVERS OF APPROVED DESIGN, WHERE THE MANHOLE DEPTH IS INSUFFICIENT TO PERMIT INSTALLATION OF A TAPER TOP OR WHERE OTHERWISE SHOWN.



6' DIA. CATCH BASIN AT CURB INLET - PLAN
NOT TO SCALE

RF1210 IN LIEU OF PROVIDING 2 JOINTS WITHIN 4 FEET OF THE STRUCTURE, IT IS ACCEPTABLE TO PROVIDE 1 JOINT WITHIN 2 FEET OF THE STRUCTURE.

RF1296 THE USE OF MORTAR UP OVER THE EDGES OF THE BICYCLE TYPE FRAMES WILL BE ADEQUATE, IN LIEU OF PINS.



'BICYCLE TYPE' CATCH BASIN FRAME DETAIL
NOT TO SCALE

- NOTES:**
1. ALL MATERIAL SHALL BE ASTM A36 STEEL.
 2. GRATE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
 3. ALL JOINTS AND CONNECTIONS SHALL BE CONTINUOUSLY WELDED WITH 3/8\"/>

L: ON=*; OFF=REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:AS NOTED

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

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Designed by ___ GSL
Drawn by ___ GSL
Checked by ___ RCF



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

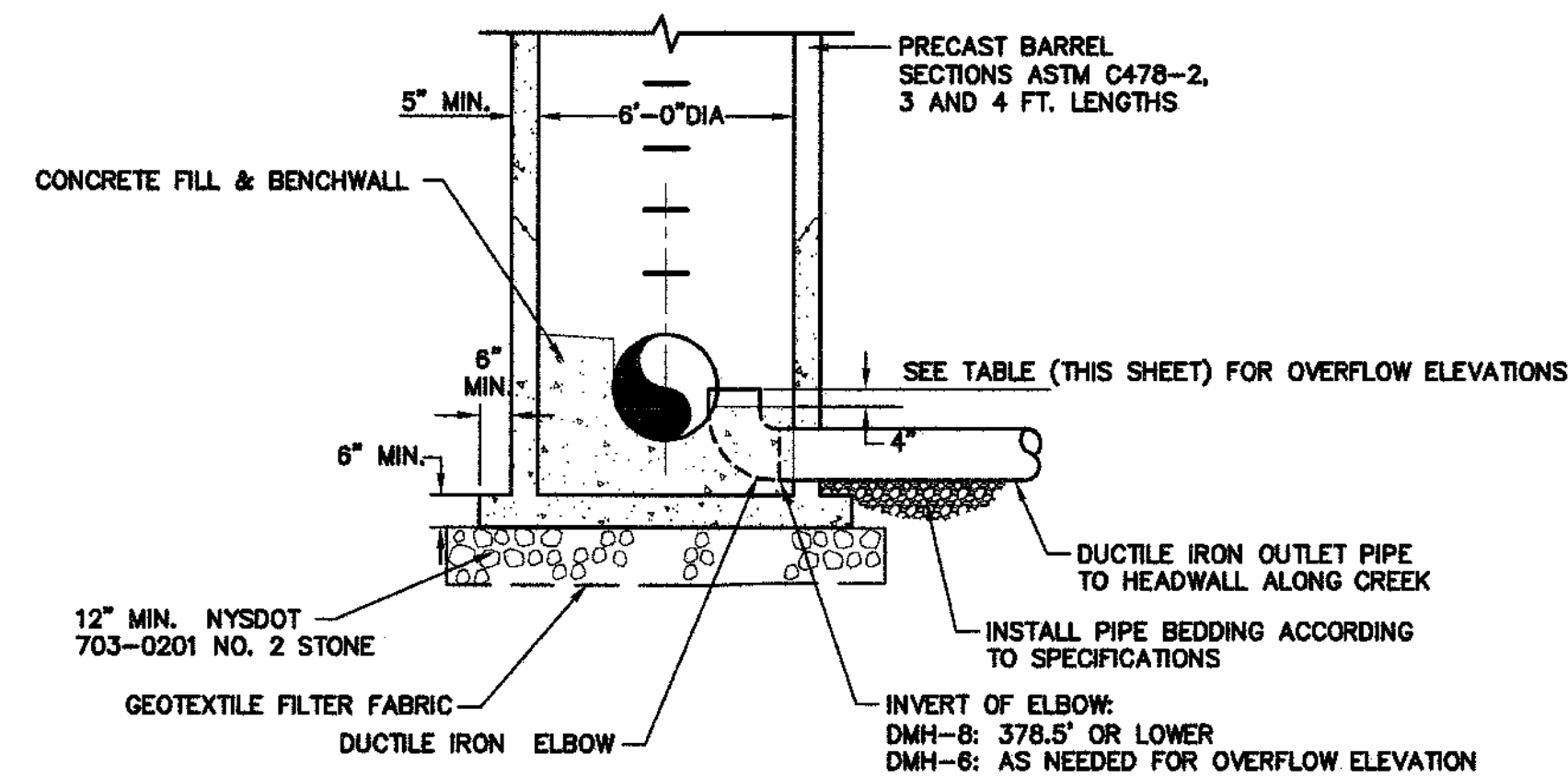
MISCELLANEOUS STORMWATER DETAILS

GENERAL



File Number 00663
Date 04/11
Signature: Gerald C. Hood

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 05/16 PER: RCF



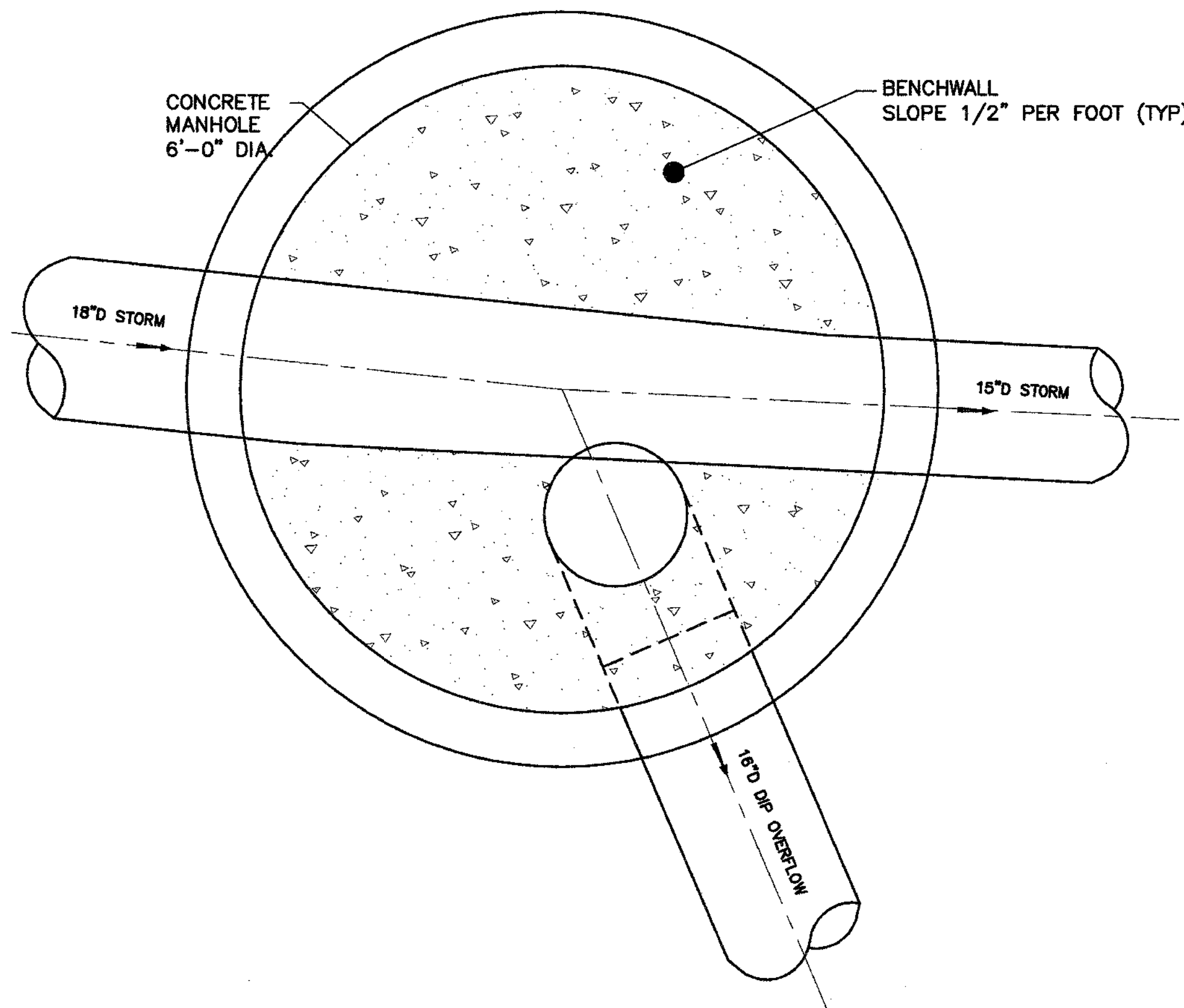
DRAINAGE MANHOLE WITH OVERFLOW - TYPICAL SECTION
NOT TO SCALE

NOTES:

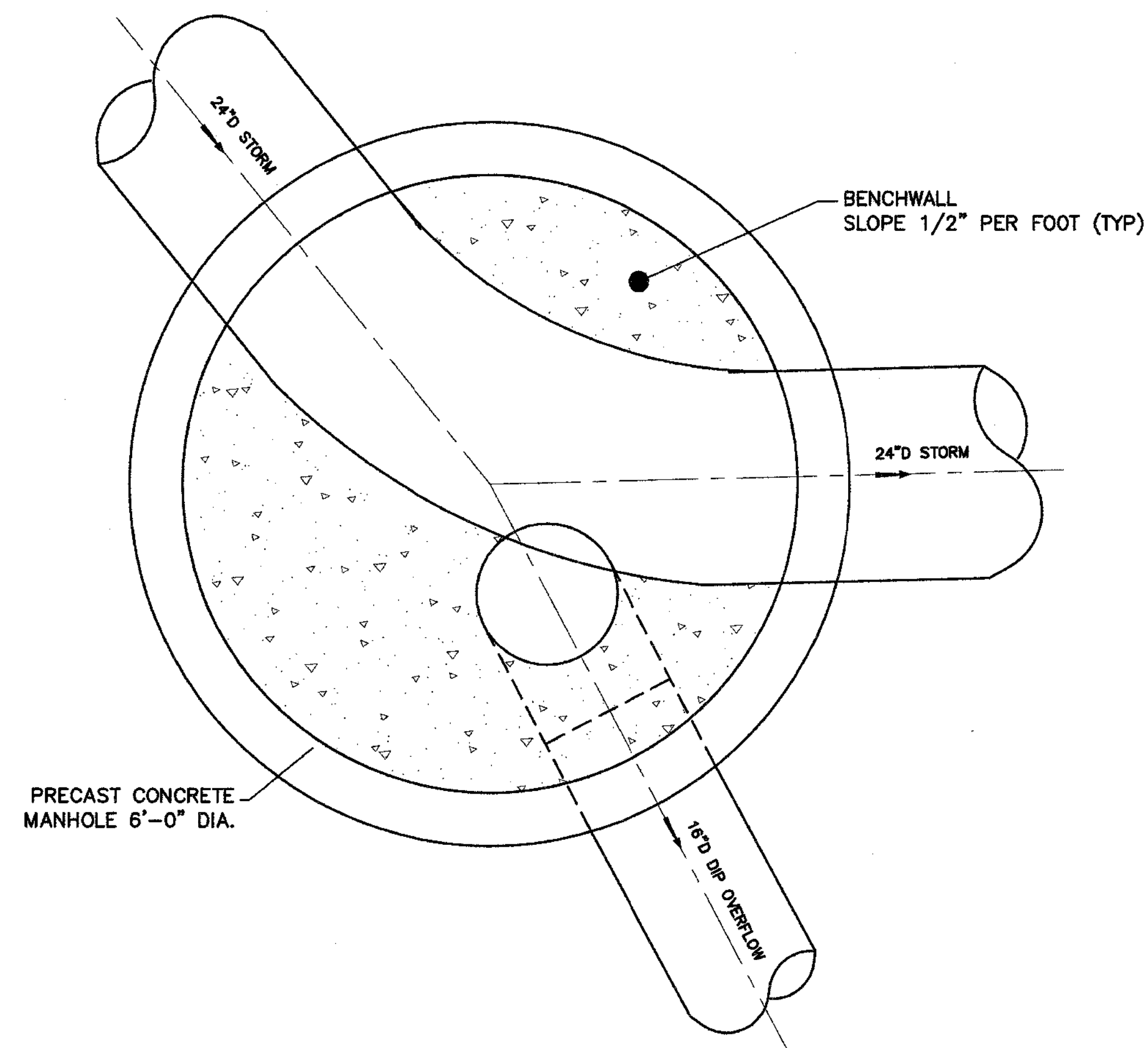
1. SEE PROFILES FOR INLET AND OUTLET ELEVATIONS.
2. INVERT OF OVERFLOW MANHOLE SHALL BE AS NEEDED TO FIT OVERFLOW ELBOW.

OVERFLOW ELEVATIONS:

DMH-6: 380.5'
DMH-8: 381.0'



STORMWATER OVERFLOW DMH-8 DETAIL
NOT TO SCALE



STORMWATER OVERFLOW DMH-6 DETAIL
NOT TO SCALE

L: ON=*; OFF=*REF*
X: MO/DA/YR CO DFT
DIR/DWG

SCALE:AS NOTED

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1	02/12	CHANGE ORDER NO. 1	Gof

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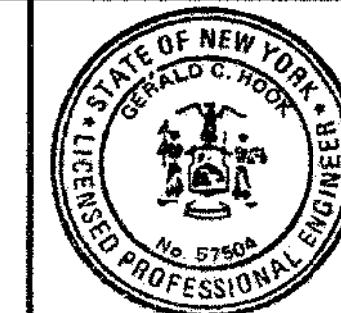
In charge of RCF
Designed by NJH
Drawn by NJH
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

MISCELLANEOUS STORMWATER DETAILS

GENERAL



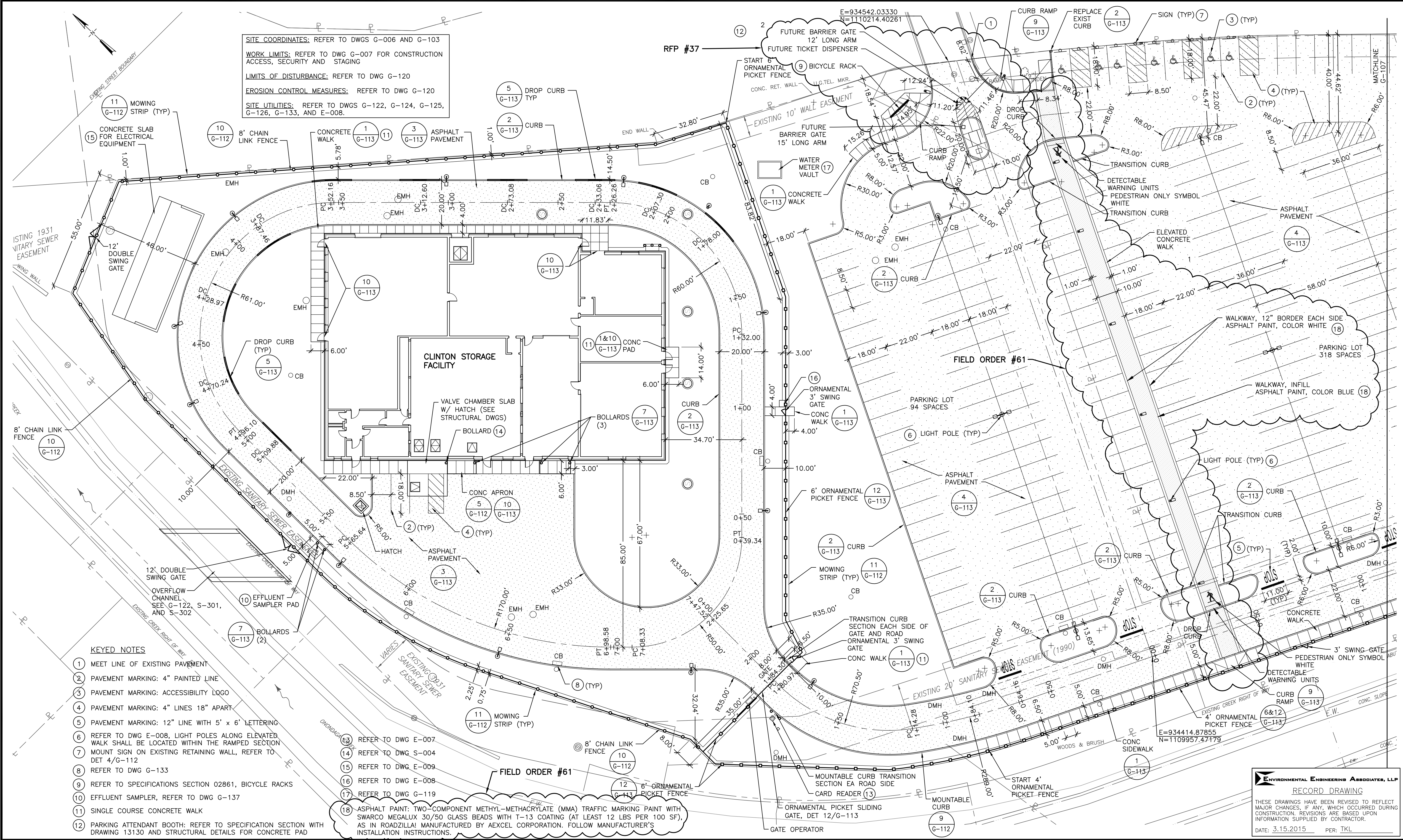
File Number
00663

Date
03/12

Gerald C. Hood

G-105A

SITE COORDINATES: REFER TO DWGS G-006 AND G-103
 WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING
 LIMITS OF DISTURBANCE: REFER TO DWG G-120
 EROSION CONTROL MEASURES: REFER TO DWG G-120
 SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.



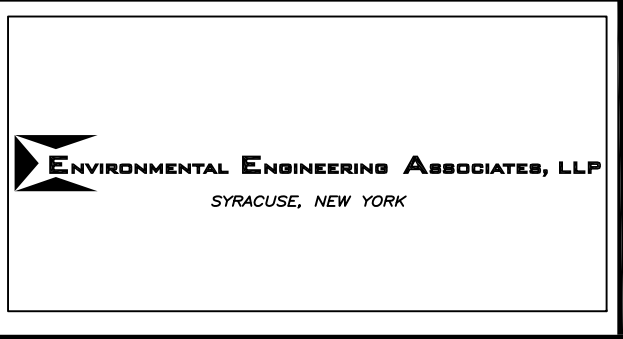
- KEYED NOTES**
- 1 MEET LINE OF EXISTING PAVEMENT
 - 2 PAVEMENT MARKING: 4" PAINTED LINE
 - 3 PAVEMENT MARKING: ACCESSIBILITY LOGO
 - 4 PAVEMENT MARKING: 4" LINES 18" APART
 - 5 PAVEMENT MARKING: 12" LINE WITH 5' x 6" LETTERING
 - 6 REFER TO DWG E-008, LIGHT POLES ALONG ELEVATED WALK SHALL BE LOCATED WITHIN THE RAMPED SECTION
 - 7 MOUNT SIGN ON EXISTING RETAINING WALL, REFER TO DET 4/G-112
 - 8 REFER TO DWG G-133
 - 9 REFER TO SPECIFICATIONS SECTION 02861, BICYCLE RACKS
 - 10 EFFLUENT SAMPLER, REFER TO DWG G-137
 - 11 SINGLE COURSE CONCRETE WALK
 - 12 PARKING ATTENDANT BOOTH: REFER TO SPECIFICATION SECTION WITH DRAWING 13130 AND STRUCTURAL DETAILS FOR CONCRETE PAD
 - 13 REFER TO DWG E-007
 - 14 REFER TO DWG S-004
 - 15 REFER TO DWG E-009
 - 16 REFER TO DWG E-008
 - 17 REFER TO DWG G-119
 - 18 ASPHALT PAINT: TWO-COMPONENT METHYL-METHACRYLATE (MMA) TRAFFIC MARKING PAINT WITH SWARCO MEGALUX 30/50 GLASS BEADS WITH T-13 COATING (AT LEAST 12 LBS PER 100 SF), AS IN ROADZILLA! MANUFACTURED BY AEXCEL CORPORATION. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SCALE:
 1"=20'-0"

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2	04/11	AS BID	TKL
1	01/11	ISSUED FOR APPROVAL	TKL

In charge of ___ TKL ___
 Designed by ___ TKL ___
 Drawn by ___ TKL ___
 Checked by ___ TKL ___



Landscape & Prospect
 Landscape Architecture
 107 Saybrook Lane, Syracuse, NY 13214
 315-446-0102 fax 315-446-1245

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

SITE LAYOUT PLAN - WEST

GENERAL

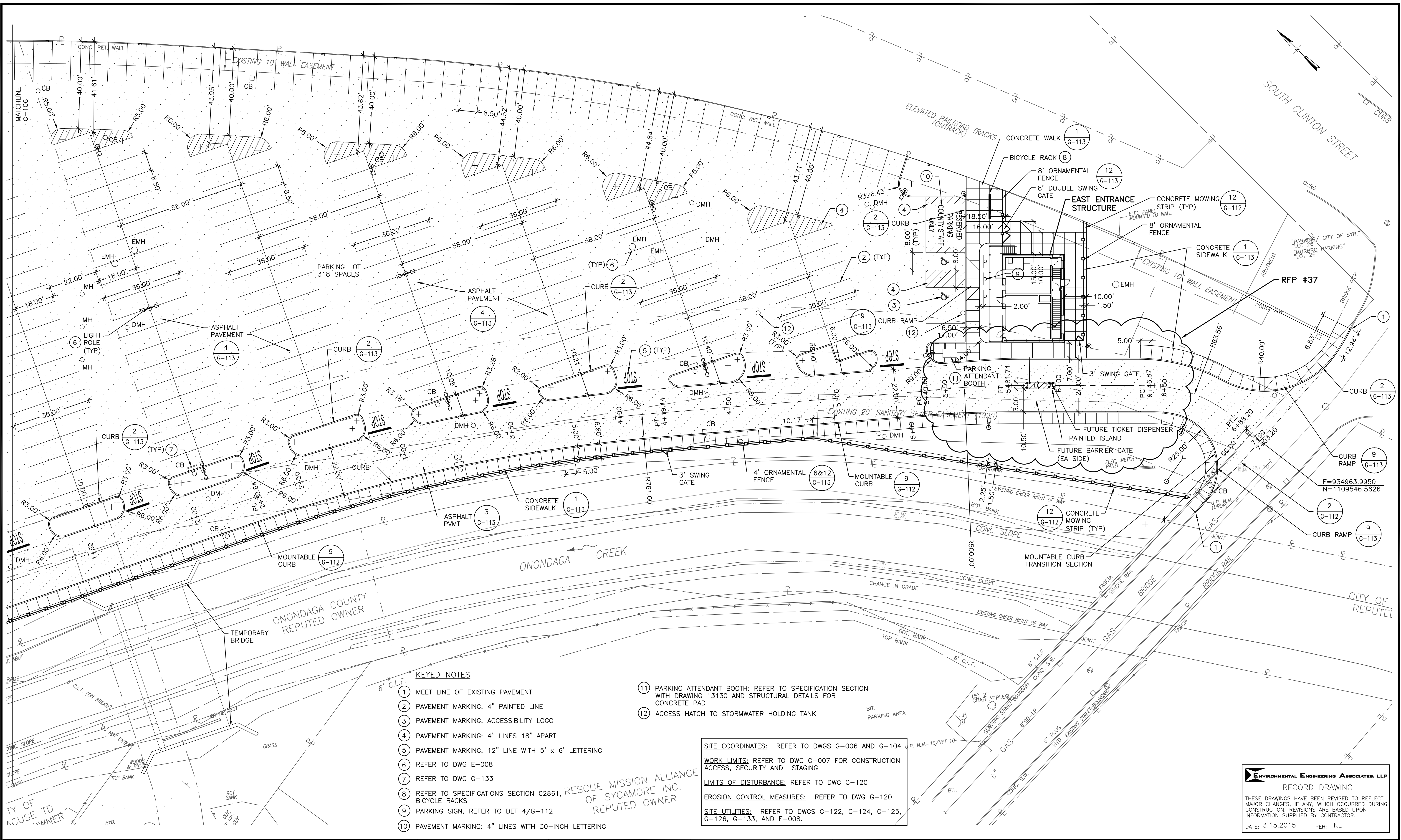
File Number
00663

Date
04/11

Signature: *TKL*

G-106

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 3.15.2015 PER: TKL



- KEYED NOTES**
- ① MEET LINE OF EXISTING PAVEMENT
 - ② PAVEMENT MARKING: 4" PAINTED LINE
 - ③ PAVEMENT MARKING: ACCESSIBILITY LOGO
 - ④ PAVEMENT MARKING: 4" LINES 18" APART
 - ⑤ PAVEMENT MARKING: 12" LINE WITH 5' x 6' LETTERING
 - ⑥ REFER TO DWG E-008
 - ⑦ REFER TO DWG G-133
 - ⑧ REFER TO SPECIFICATIONS SECTION 02861, RESCUE MISSION ALLIANCE OF SYCAMORE INC. REPUTED OWNER
 - ⑨ PARKING SIGN, REFER TO DET 4/G-112
 - ⑩ PAVEMENT MARKING: 4" LINES WITH 30-INCH LETTERING

⑪ PARKING ATTENDANT BOOTH: REFER TO SPECIFICATION SECTION WITH DRAWING 13130 AND STRUCTURAL DETAILS FOR CONCRETE PAD

⑫ ACCESS HATCH TO STORMWATER HOLDING TANK

SITE COORDINATES: REFER TO DWGS G-006 AND G-104

WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING

LIMITS OF DISTURBANCE: REFER TO DWG G-120

EROSION CONTROL MEASURES: REFER TO DWG G-120

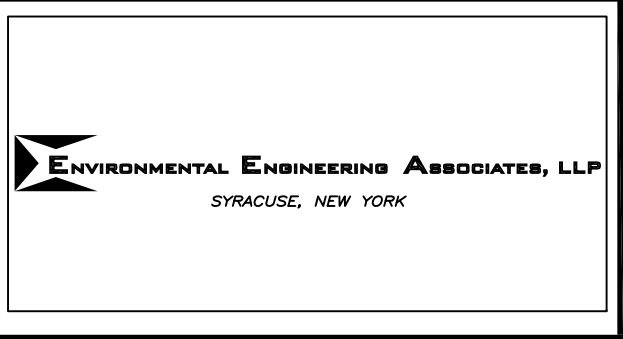
SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

SCALE:
1"=20'-0"

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3	02/12	REVISED FOR CHANGE ORDER NO 1	TKL
2	04/11	AS BID	TKL
1	01/11	ISSUED FOR APPROVAL	TKL

In charge of ___ TKL ___
 Designed by ___ TKL ___
 Drawn by ___ TKL ___
 Checked by ___ TKL ___



Landscape & Prospect
 Landscape Architecture
 107 Sycamore Lane, Syracuse, NY 13214
 315-446-0102 fax 315-446-1245

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

SITE LAYOUT PLAN - EAST

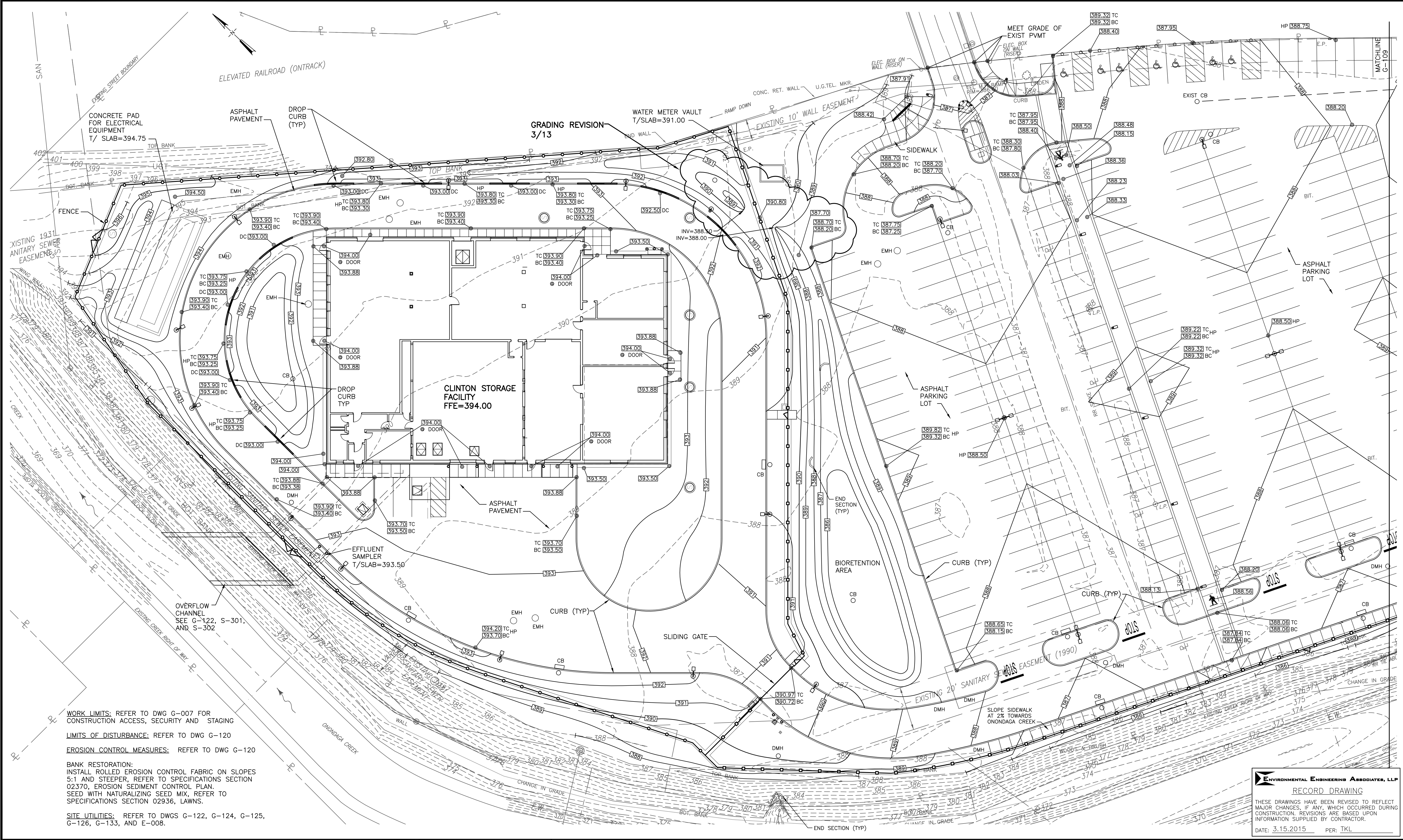
GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 3.15.2015 PER: TKL

File Number: 00663
 Date: 04/11
 G-107



WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING
LIMITS OF DISTURBANCE: REFER TO DWG G-120
EROSION CONTROL MEASURES: REFER TO DWG G-120
BANK RESTORATION: INSTALL ROLLED EROSION CONTROL FABRIC ON SLOPES 5:1 AND STEEPER, REFER TO SPECIFICATIONS SECTION 02370, EROSION SEDIMENT CONTROL PLAN. SEED WITH NATURALIZING SEED MIX, REFER TO SPECIFICATIONS SECTION 02936, LAWNS.
SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

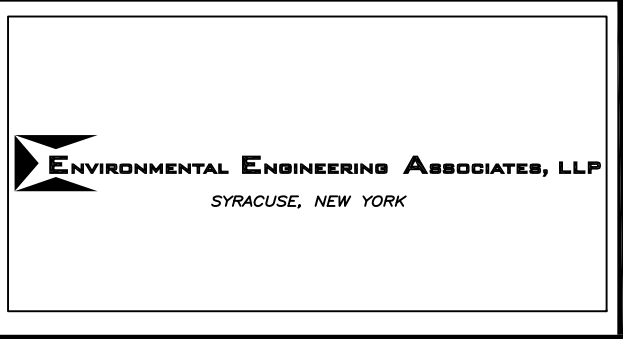
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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 DATE: 3.15.2015 PER: TKL

SCALE:
 1"=20'-0"

2	04/11	AS BID	TKL
1	01/11	ISSUED FOR APPROVAL	TKL
No.	Date	Revisions	Init

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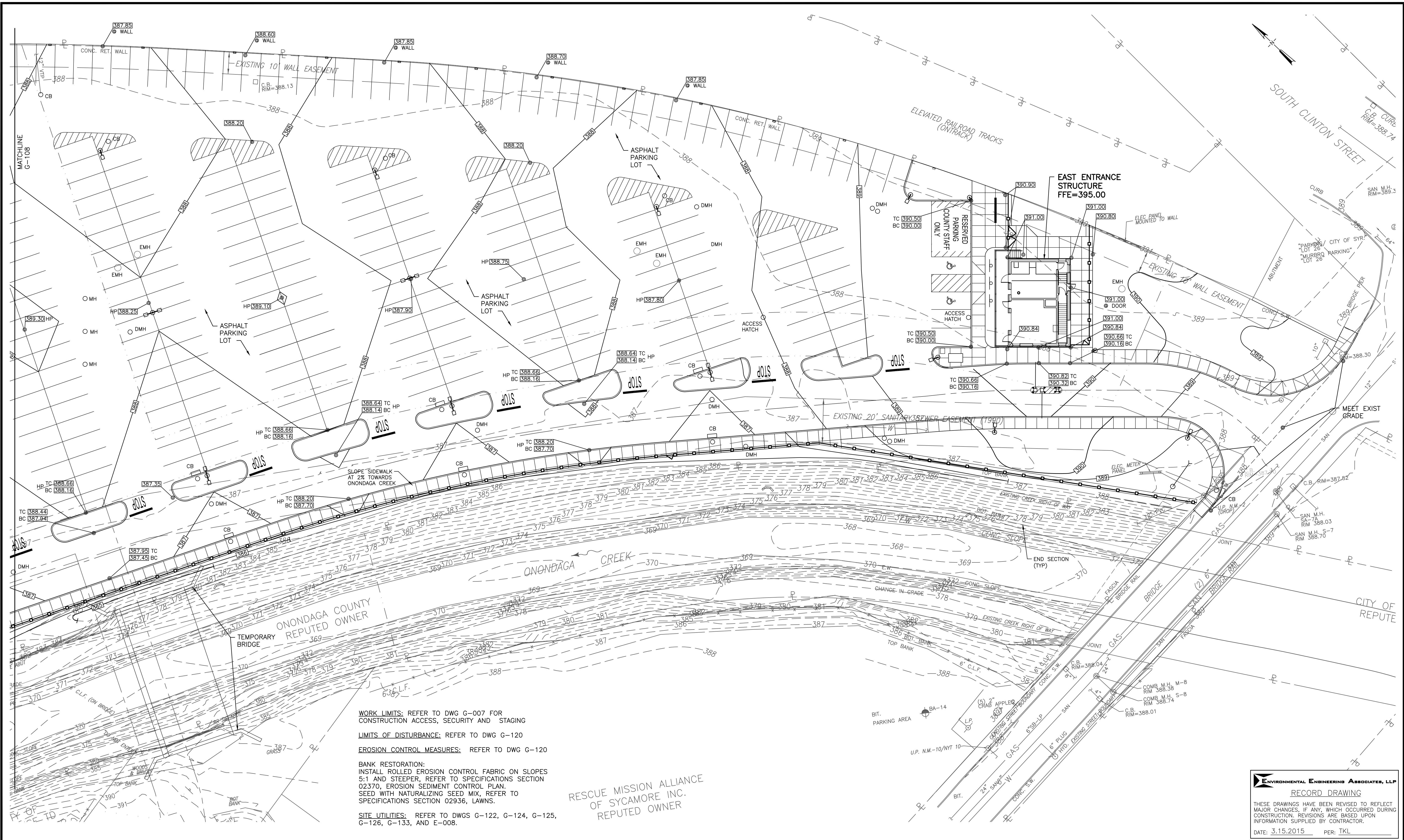
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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT
SITE GRADING PLAN - WEST
 GENERAL

File Number 00663
 Date 04/11
G-108



WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING

LIMITS OF DISTURBANCE: REFER TO DWG G-120

EROSION CONTROL MEASURES: REFER TO DWG G-120

BANK RESTORATION: INSTALL ROLLED EROSION CONTROL FABRIC ON SLOPES 5:1 AND STEEPER, REFER TO SPECIFICATIONS SECTION 02370, EROSION SEDIMENT CONTROL PLAN. SEED WITH NATURALIZING SEED MIX, REFER TO SPECIFICATIONS SECTION 02936, LAWNS.

SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

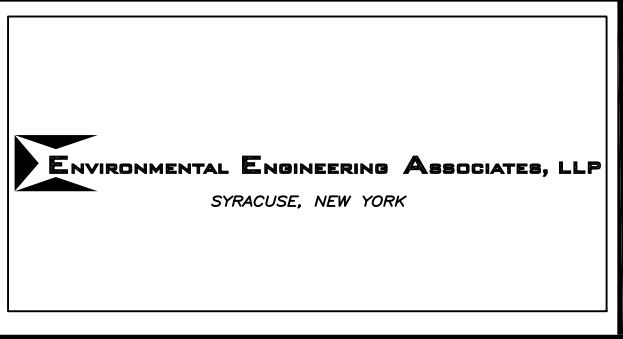
RESCUE MISSION ALLIANCE
OF SYCAMORE INC.
REPUTED OWNER

SCALE:
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No.	Date	Revisions	Init
3	02/12	REVISED FOR CHANGE ORDER NO 1	
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1	01/11	ISSUED FOR APPROVAL	TKL
No.	Date	Revisions	Init

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CLINTON CSO STORAGE FACILITY PROJECT

SITE GRADING PLAN - EAST

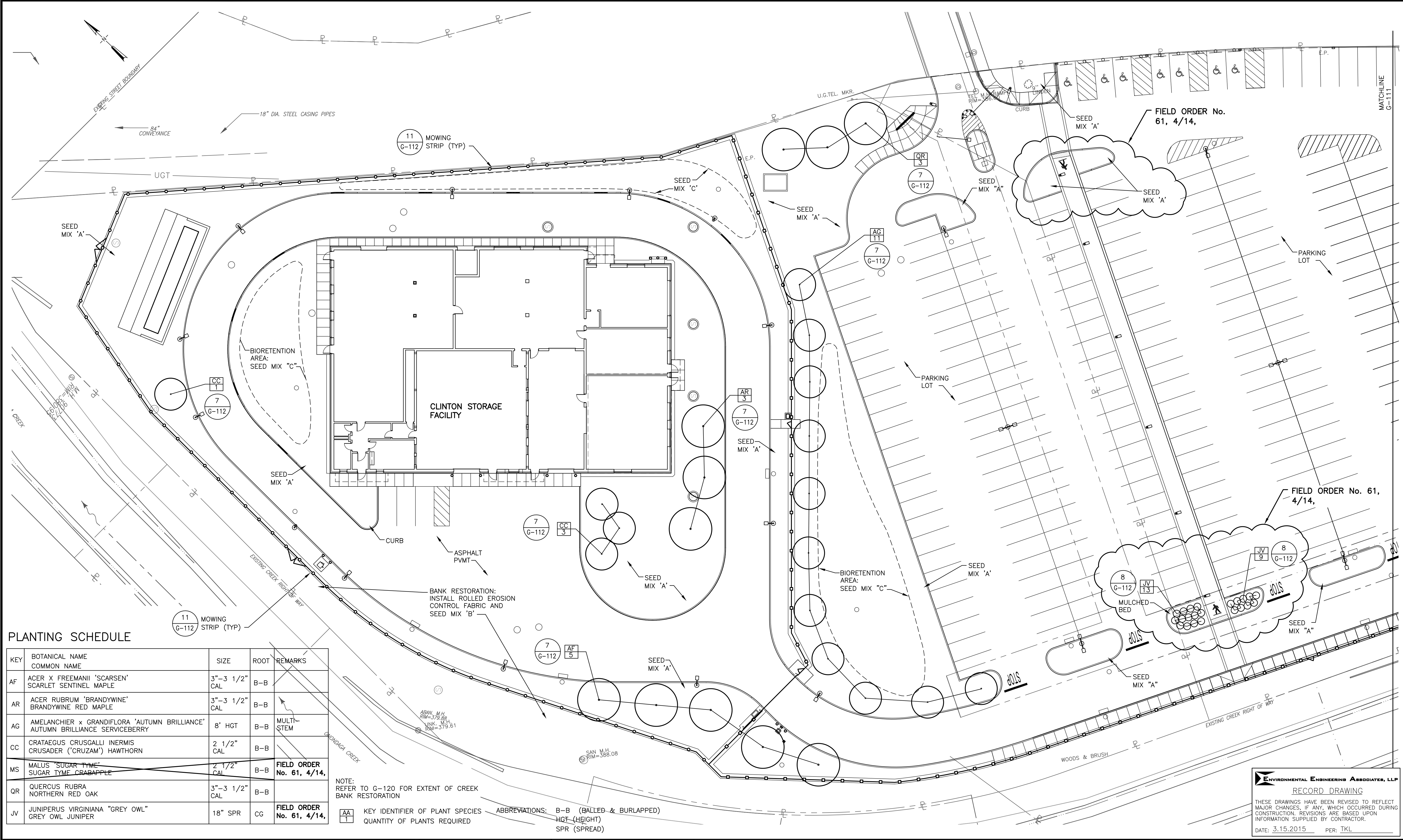
GENERAL

File Number
00663

Date
04/11

G-109

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 DATE: 3.15.2015 PER: TKL



PLANTING SCHEDULE

KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
AF	ACER X FREEMANII 'SCARSEN' SCARLET SENTINEL MAPLE	3"-3 1/2" CAL	B-B	
AR	ACER RUBRUM 'BRANDYWINE' BRANDYWINE RED MAPLE	3"-3 1/2" CAL	B-B	
AG	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	8' HGT	B-B	MULTI-STEM
CC	CRATAEGUS CRUSGALLI INERMIS CRUSADER ('CRUZAM') HAWTHORN	2 1/2" CAL	B-B	
MS	MALUS 'SUGAR TYME' SUGAR TYME CRABAPPLE	2 1/2" CAL	B-B	FIELD ORDER No. 61, 4/14,
QR	QUERCUS RUBRA NORTHERN RED OAK	3"-3 1/2" CAL	B-B	
JV	JUNIPERUS VIRGINIANA "GREY OWL" GREY OWL JUNIPER	18" SPR	CG	FIELD ORDER No. 61, 4/14,

NOTE: REFER TO G-120 FOR EXTENT OF CREEK BANK RESTORATION

KEY IDENTIFIER OF PLANT SPECIES QUANTITY OF PLANTS REQUIRED

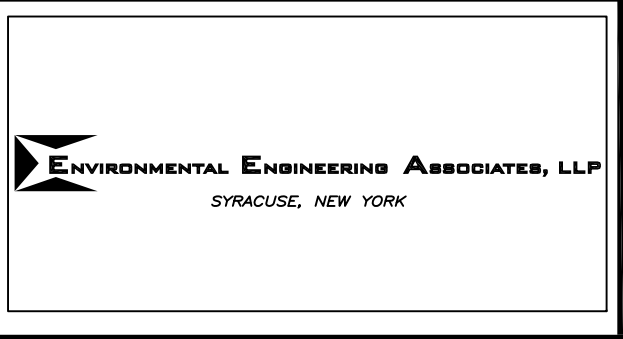
ABBREVIATIONS: B-B (BALLED & BURLAPPED) HGT (HEIGHT) SPR (SPREAD)

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LANDSCAPE PLAN - WEST

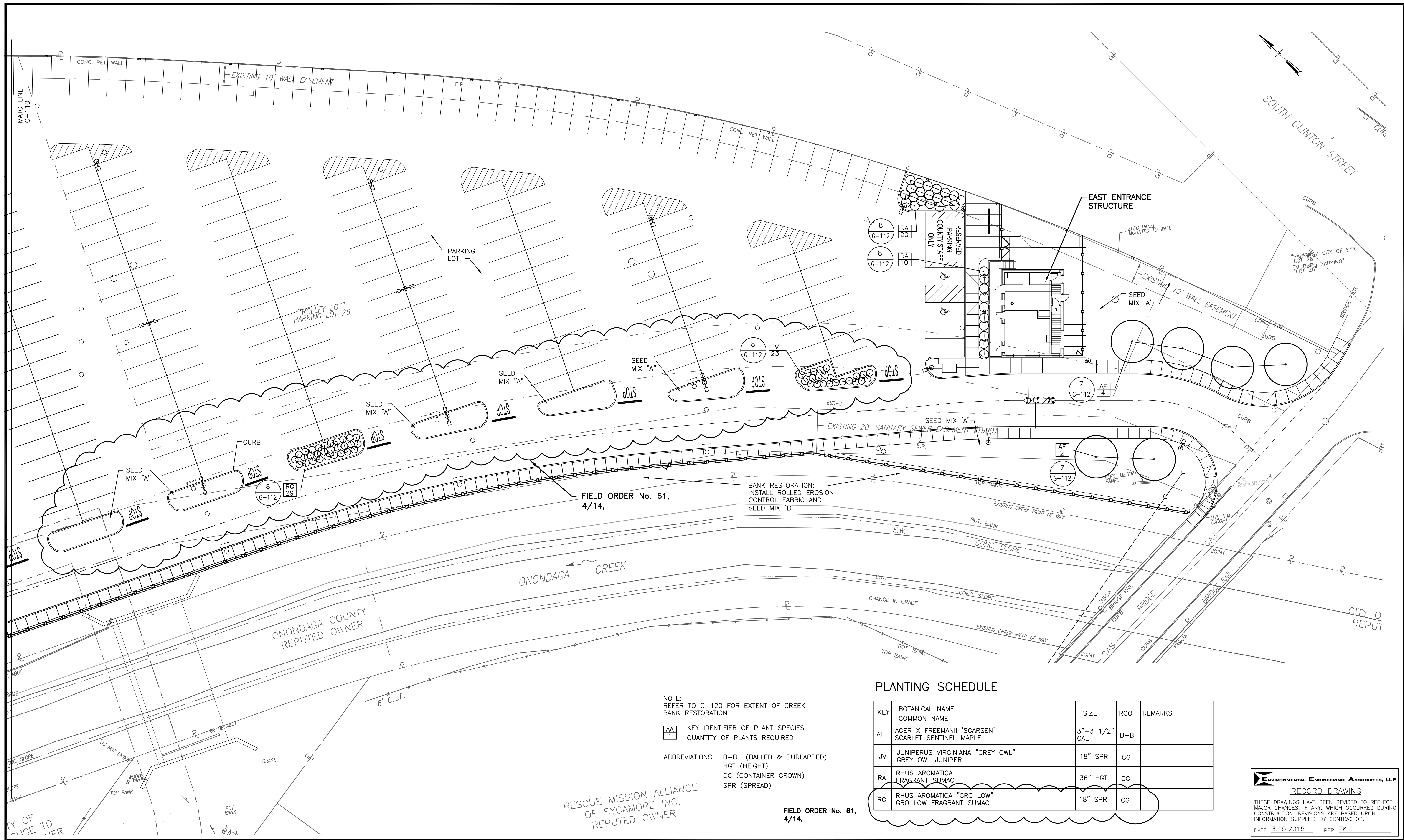
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Environmental Engineering Associates, LLP
 RECORD DRAWING

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DATE: 3.15.2015 PER: TKL

File Number: 00663
 Date: 04/11
 G-110



NOTE:
REFER TO G-120 FOR EXTENT OF CREEK BANK RESTORATION

AA KEY IDENTIFIER OF PLANT SPECIES
T QUANTITY OF PLANTS REQUIRED

ABBREVIATIONS: B-B (BALLED & BURLAPPED)
HGT (HEIGHT)
CG (CONTAINER GROWN)
SPR (SPREAD)

PLANTING SCHEDULE

KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
AF	ACER X FREEMANII 'SCARSEN' SCARLET SENTINEL MAPLE	3"-3 1/2" CAL	B-B	
JV	JUNIPERUS VIRGINIANA "GREY OWL" GREY OWL JUNIPER	18" SPR	CG	
RA	RHUS AROMATICA FRAGRANT SUMAC	36" HGT	CG	
RG	RHUS AROMATICA "GRO LOW" GRO LOW FRAGRANT SUMAC	18" SPR	CG	

RESCUE MISSION ALLIANCE
OF SYCAMORE INC.
REPUTED OWNER

FIELD ORDER No. 61,
4/14,

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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SYRACUSE, NEW YORK

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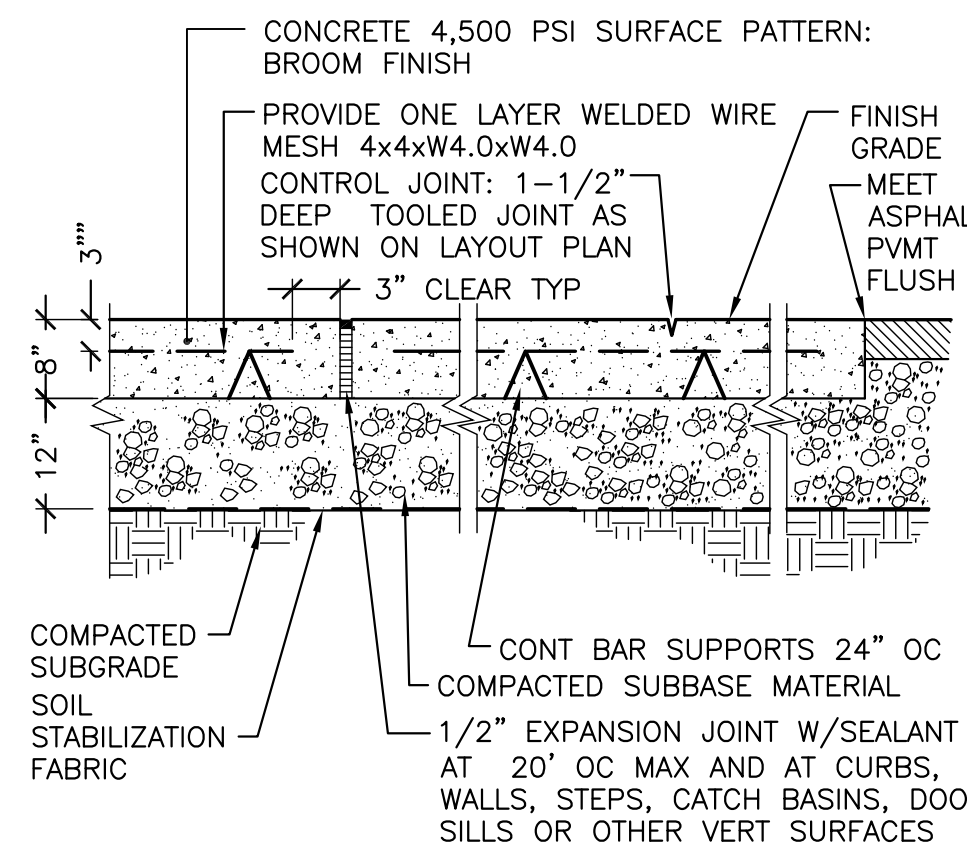
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

LANDSCAPE PLAN - EAST

GENERAL

FILED
REGISTERED LANDSCAPE ARCHITECT
KATHLEEN KRISTINA LUDWIGSON
001361
STATE OF NEW YORK

File Number
00663
Date
04/11
G-111

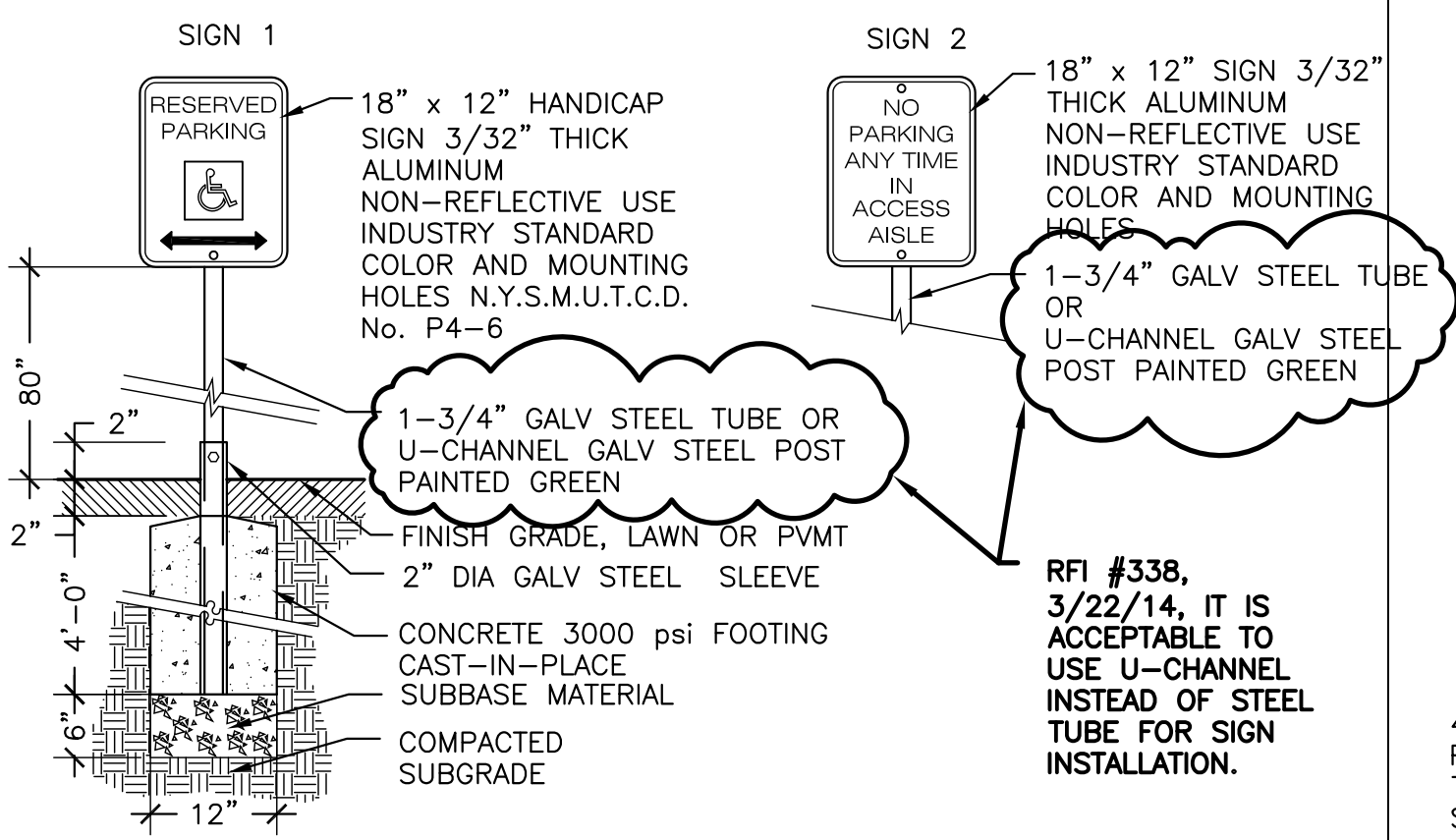


CONCRETE PAVEMENT

NOT TO SCALE

5

G-112

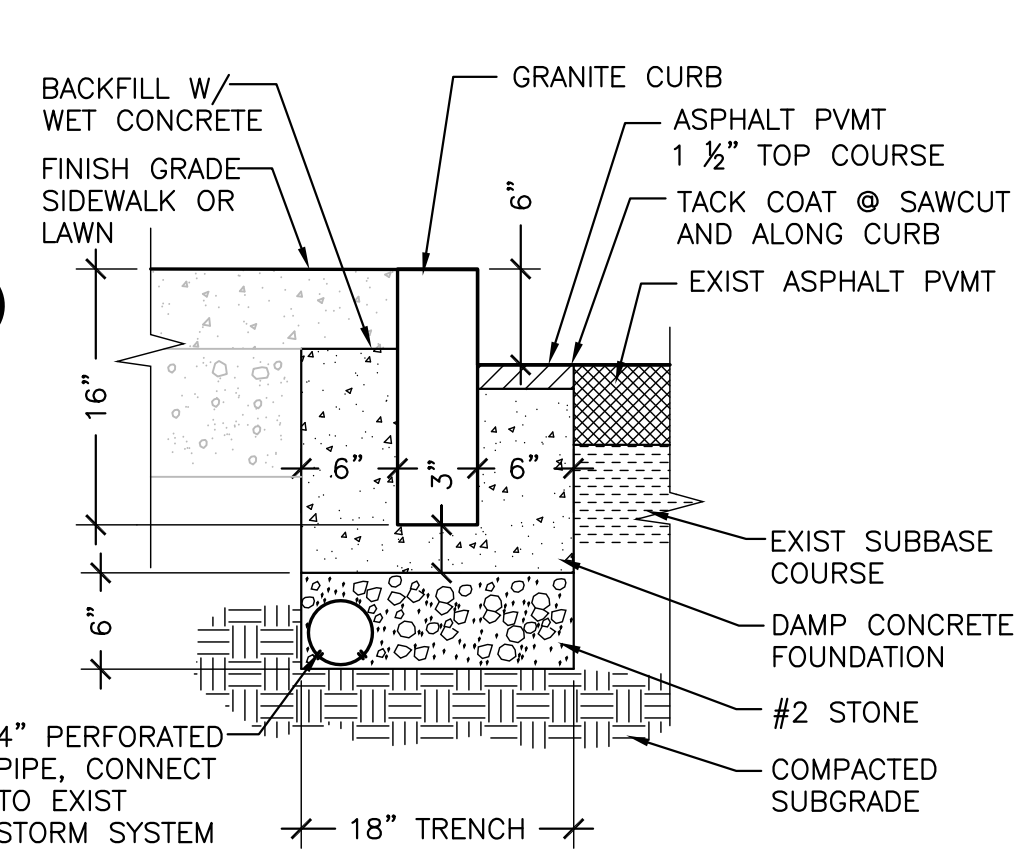


PARKING SIGNS

NOT TO SCALE

4

G-112

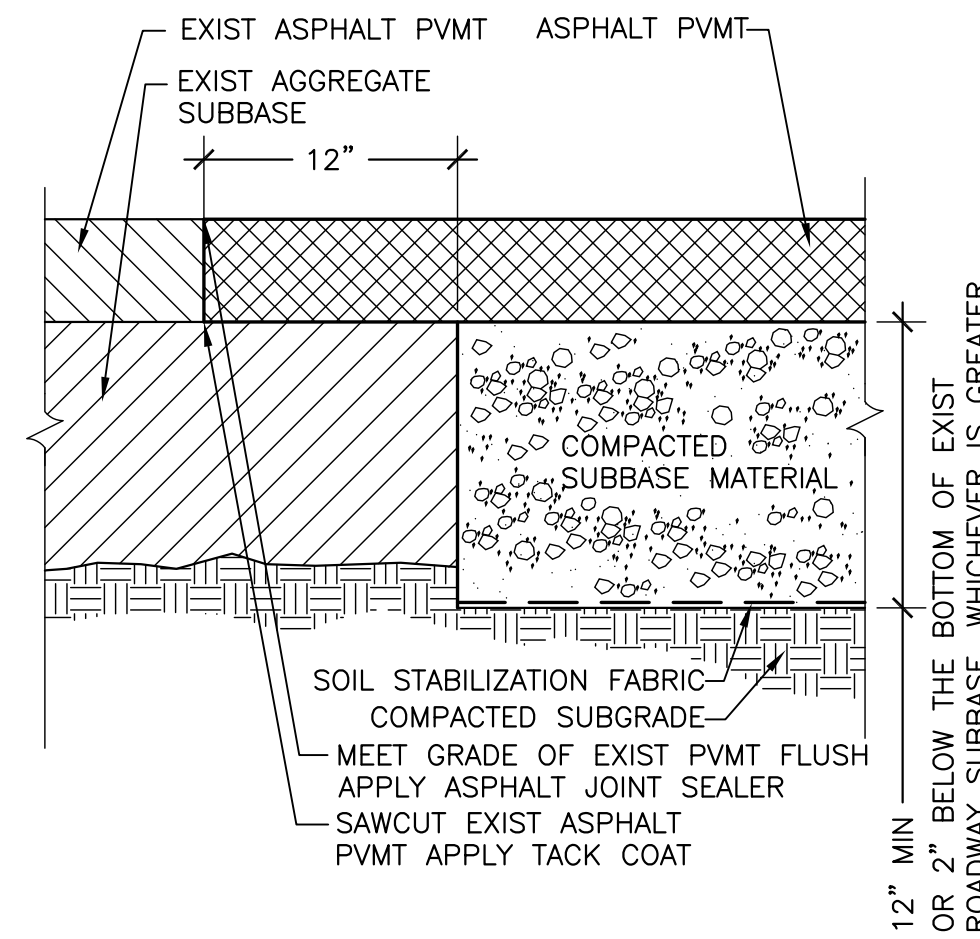


GRANITE CURB RESTORATION

NOT TO SCALE

3

G-112



PAVEMENT RESTORATION JOINT

NOT TO SCALE

2

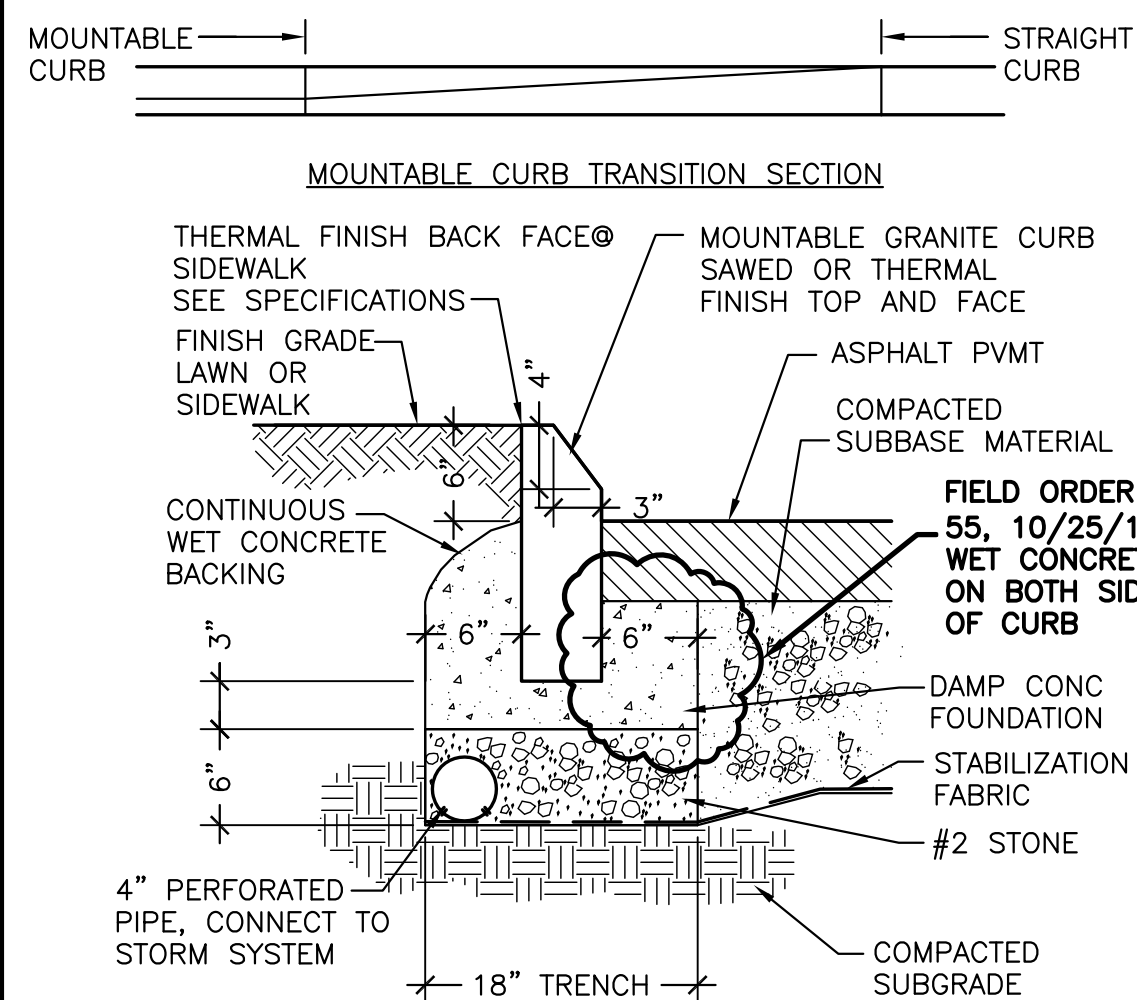
G-112

DRAWING KEY	DESCRIPTION
1	UNCLASSIFIED EXCAVATION AND DISPOSAL
2	EMBANKMENT IN PLACE
3	SUBBASE COURSE (12")
4	ASPHALT CONCRETE - TYPE 1 BASE COURSE (TWO-4" LIFTS)
5	ASPHALT CONCRETE - TYPE 3 BINDER COURSE (ONE 1-1/2" LIFT)
6	ASPHALT CONCRETE - TYPE 7F TOP COURSE (ONE 1-1/2" LIFT)
7	FIBER REINFORCED (FIBERMESH 300 OR APPROVED EQUAL) PORTLAND CEMENT CONCRETE 3,000 psi (8" THICK)
8	GEOTEXTILE FABRIC
9	GRANITE CURB (5" X 16")
10	ESTABLISHING TURF
11	TOPSOIL

GENERAL NOTES (THIS DRAWING):

1.1 SLOPE ASPHALT PAVEMENT 1/4"/FT MIN. PROVIDE 6" REVEAL AT NEW CURB.

1.2 ASPHALT TACK COAT TO BE DURAFILL D3405 OR EQUAL. TACK COAT MUST MEET REQUIREMENTS OF ASTM D3405

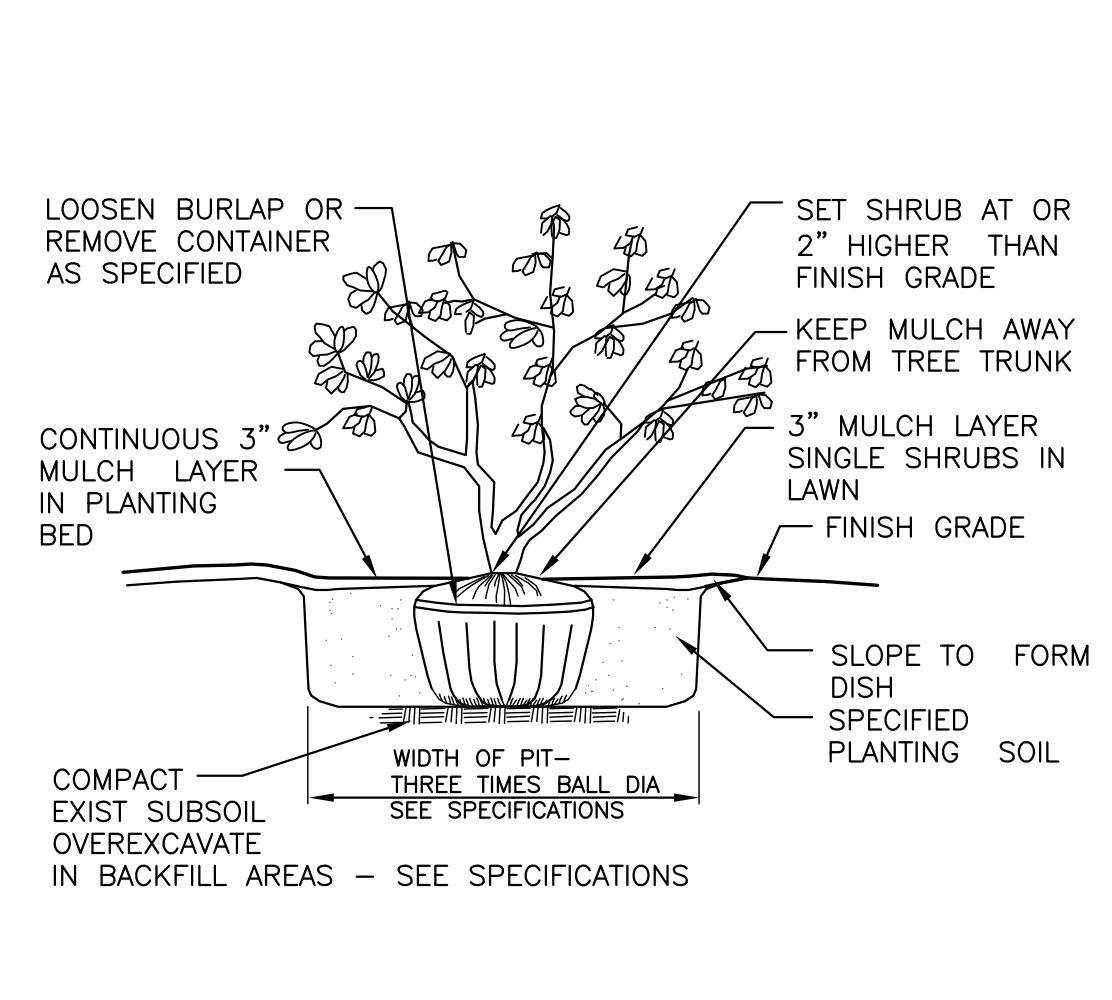


MOUNTABLE CURB

NOT TO SCALE

9

G-112

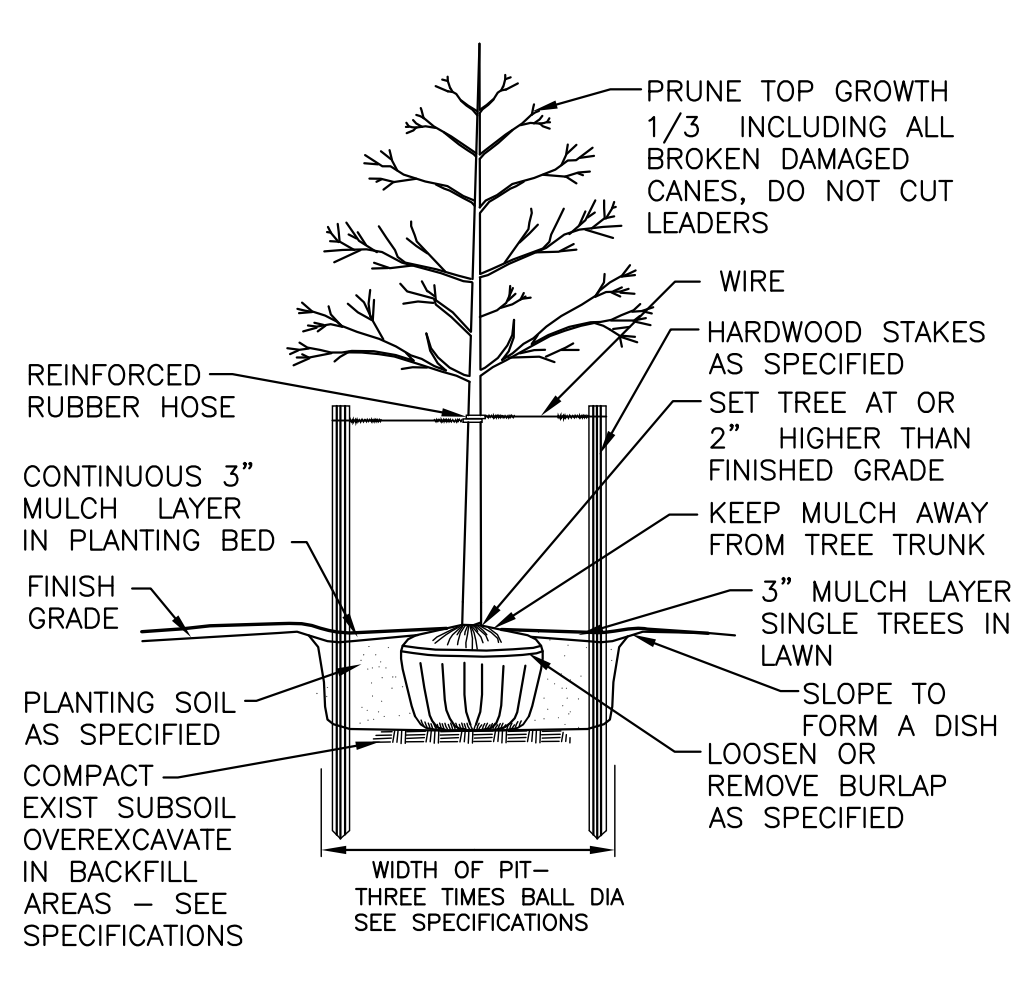


SHRUB PLANTING

NOT TO SCALE

8

G-112

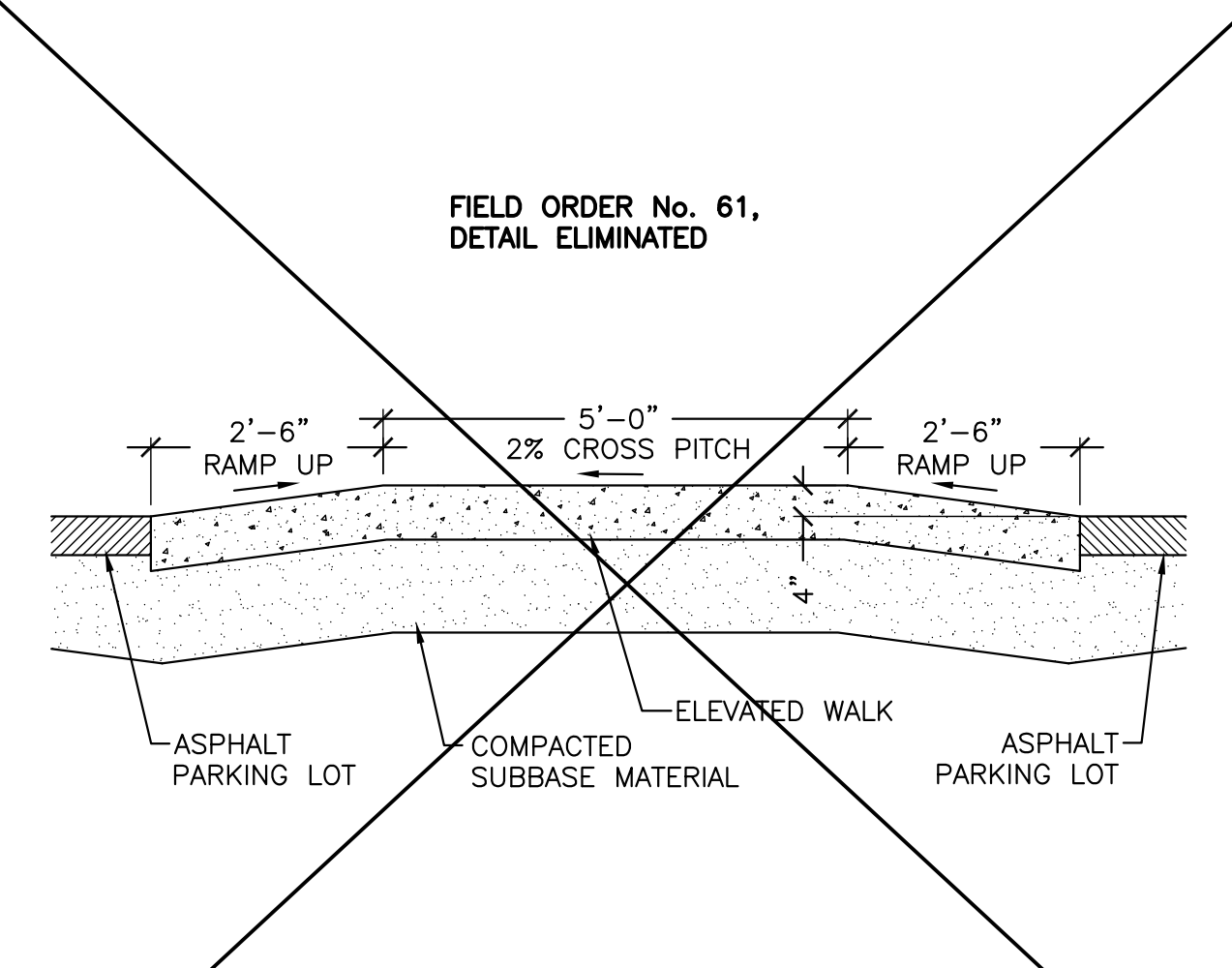


DECIDUOUS TREE PLANTING

NOT TO SCALE

7

G-112

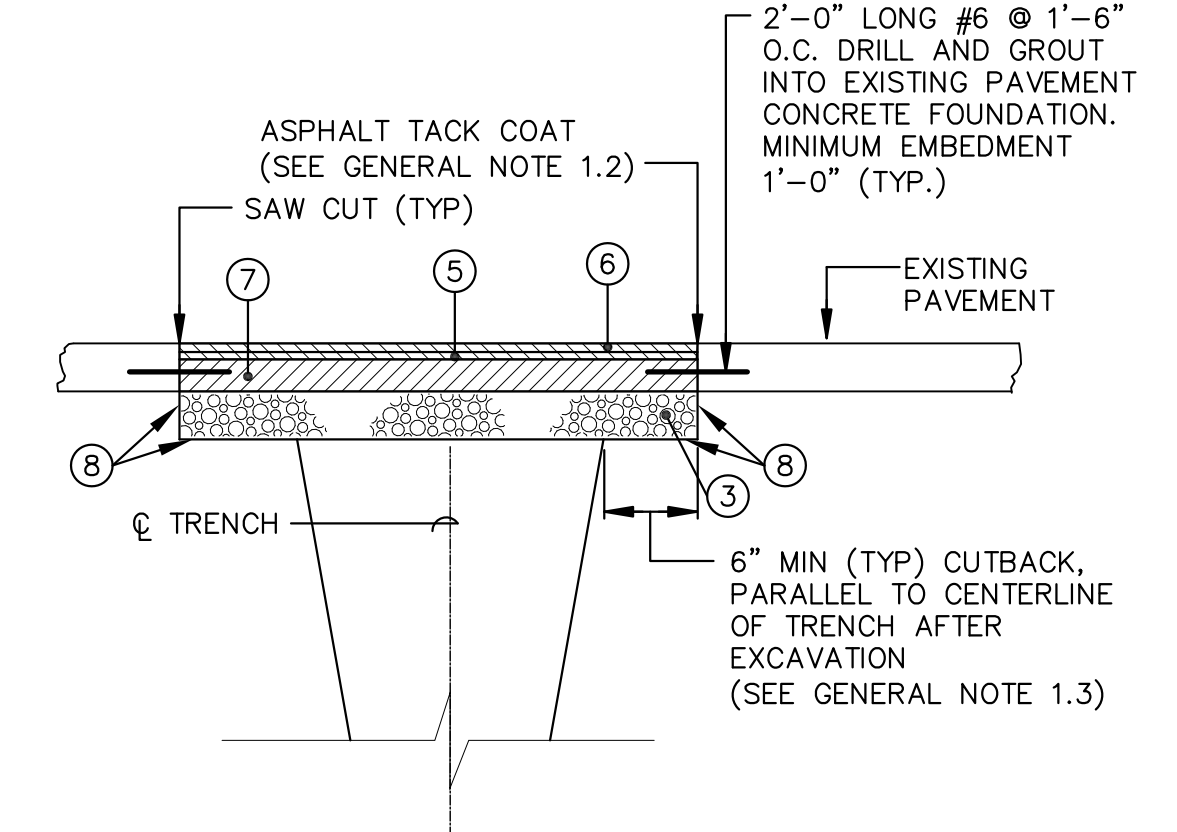


ELEVATED CONCRETE WALK

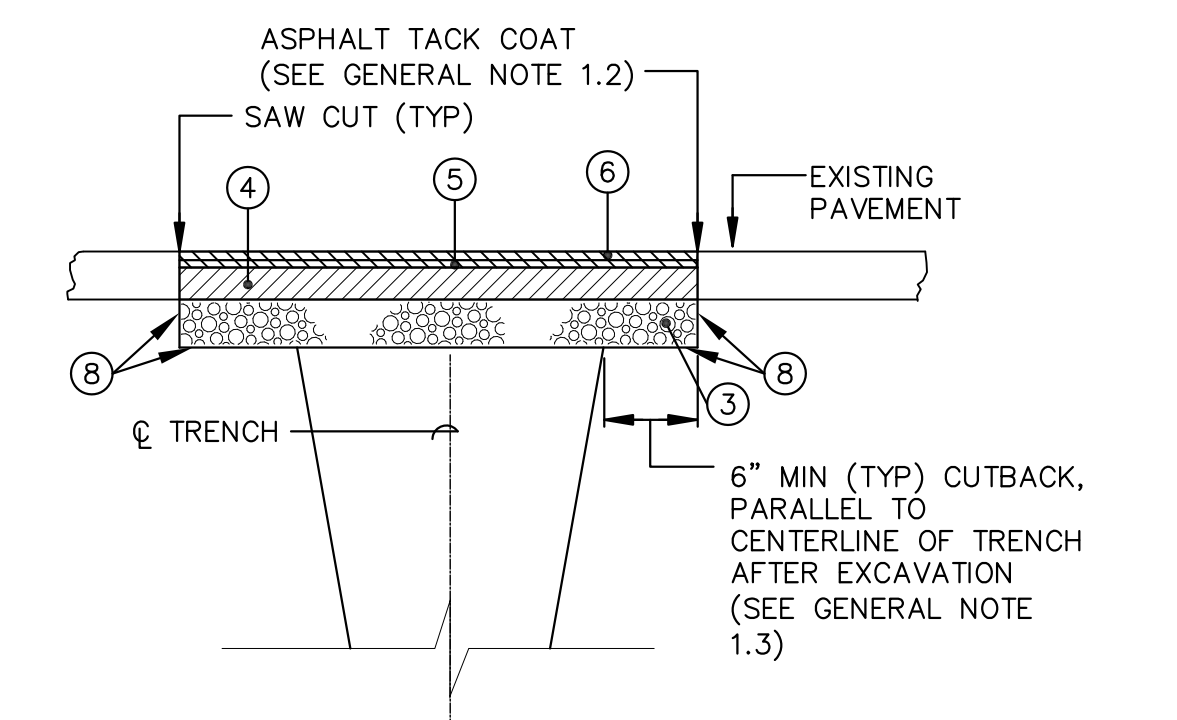
NOT TO SCALE

6

G-112



ASPHALT WITH CONCRETE FOUNDATION



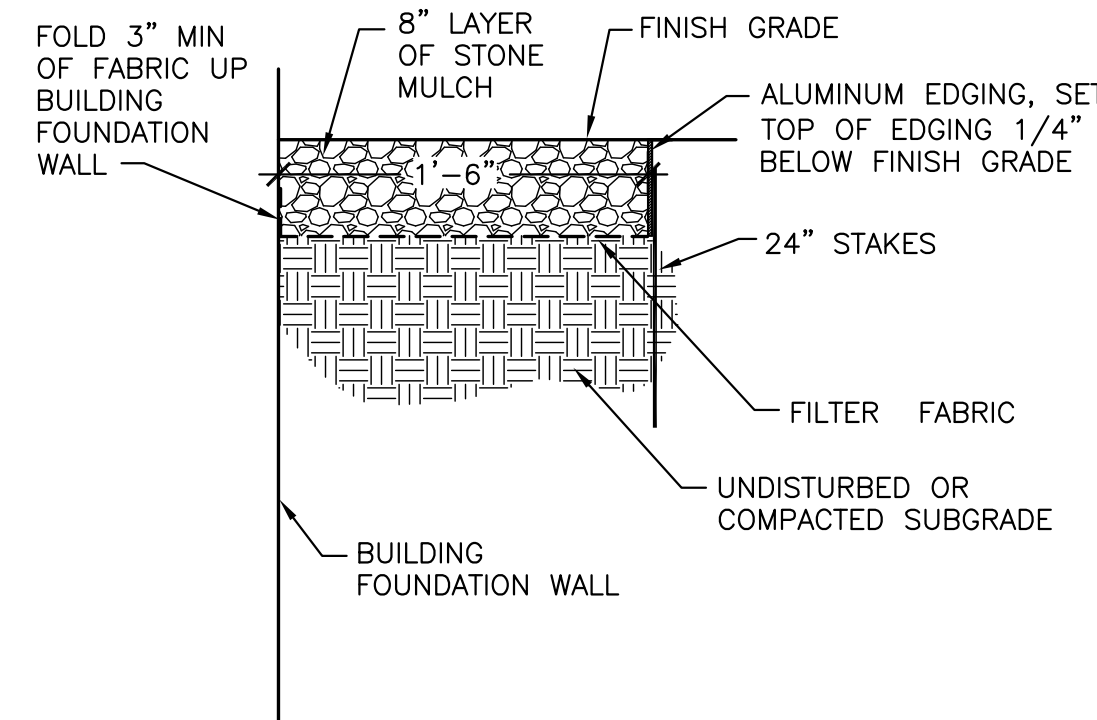
FULL-DEPTH ASPHALT

ASPHALT PAVEMENT RESTORATION

NOT TO SCALE

1

G-112

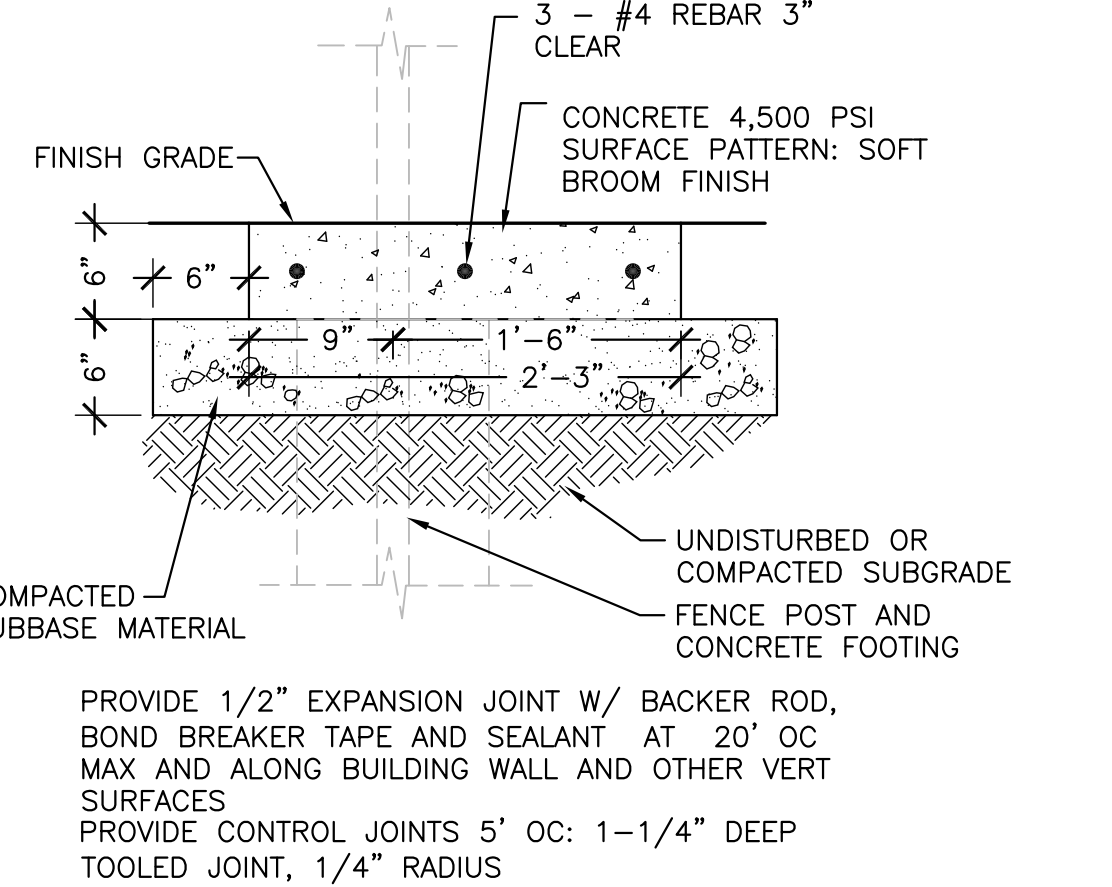


MOWING STRIP AT BUILDING

NOT TO SCALE

13

G-112

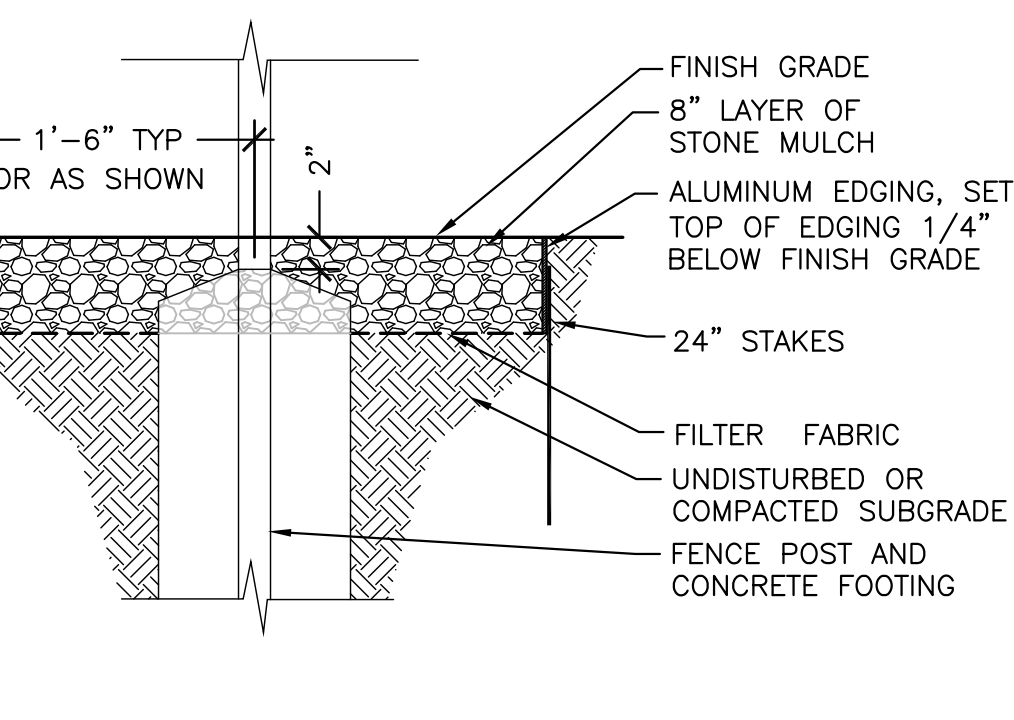


CONCRETE MOWING STRIP

NOT TO SCALE

12

G-112

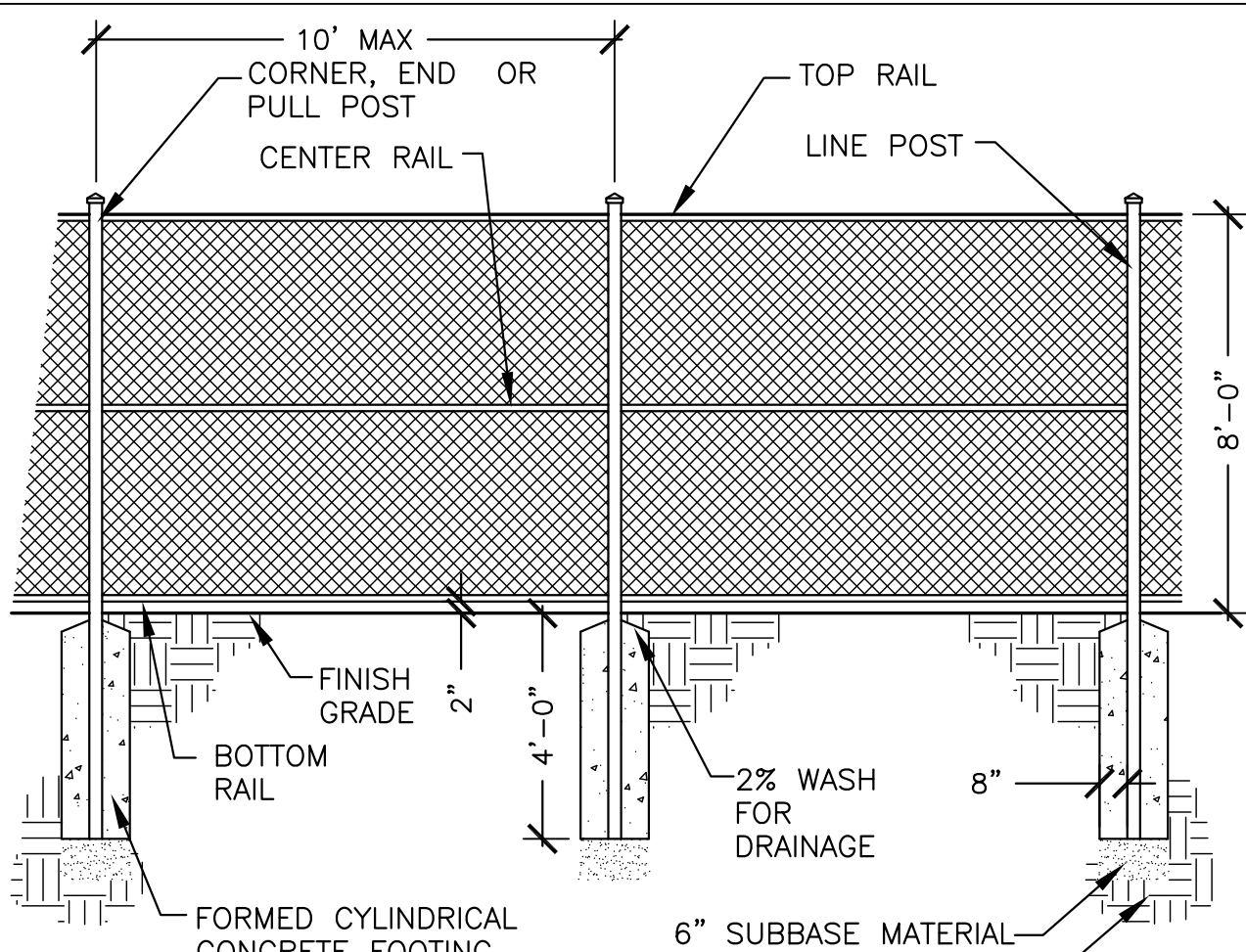


MOWING STRIP AT FENCE

NOT TO SCALE

11

G-112



CHAIN LINK FENCE

SCALE 1/2"=1'-0"

10

G-112

SCALE: NOT TO SCALE

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 CLINTON CSO STORAGE FACILITY PROJECT PROJECT

SITE DETAILS

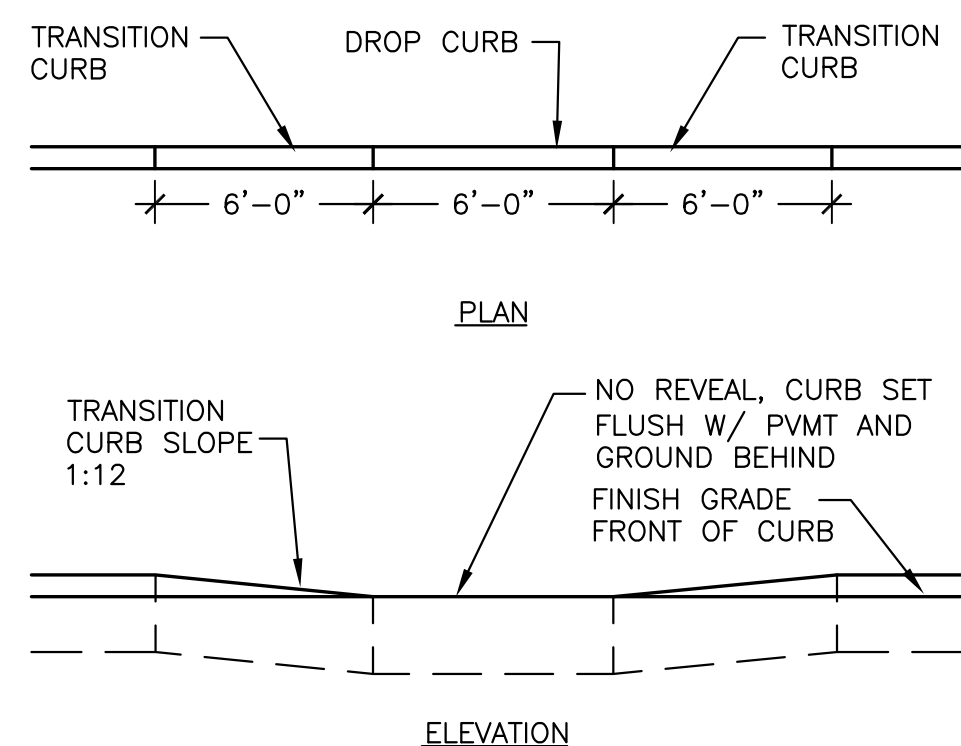
GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

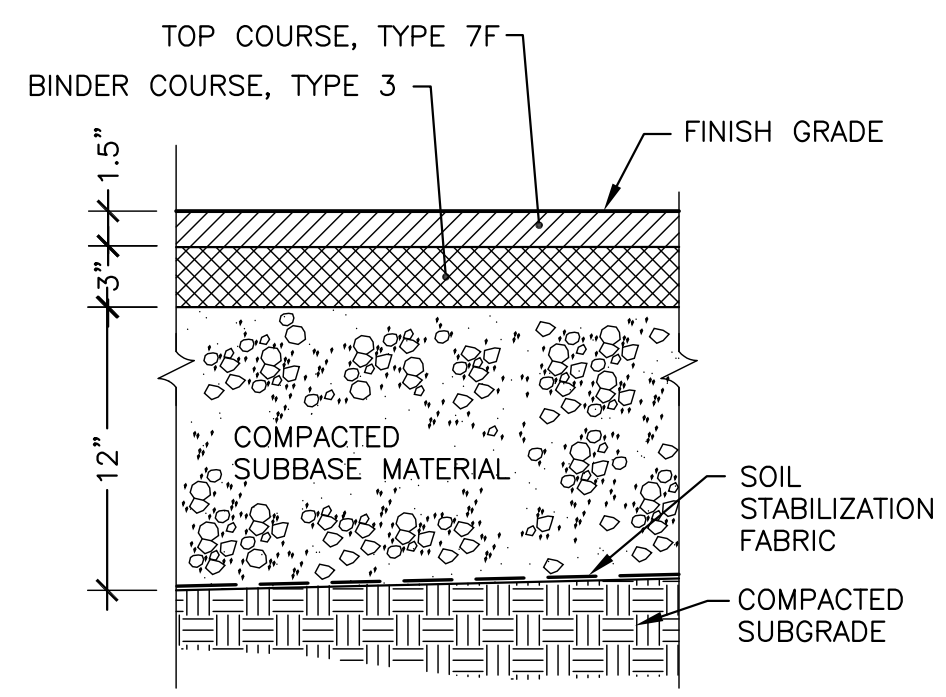
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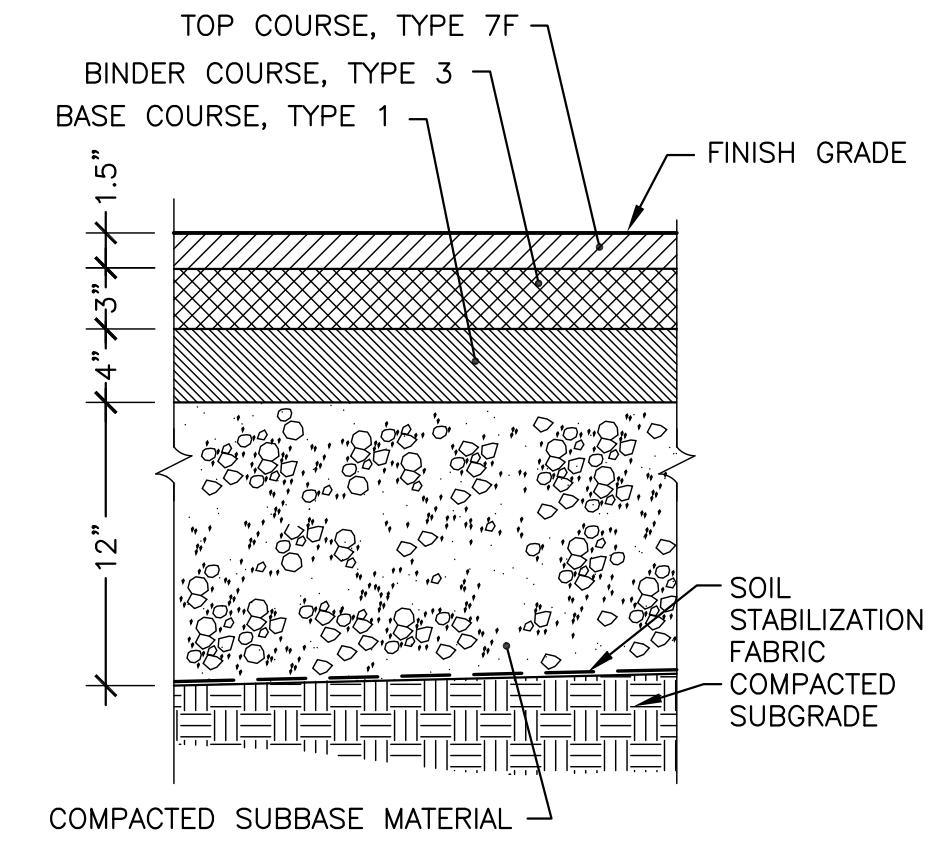
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 Date: 04/11
G-112



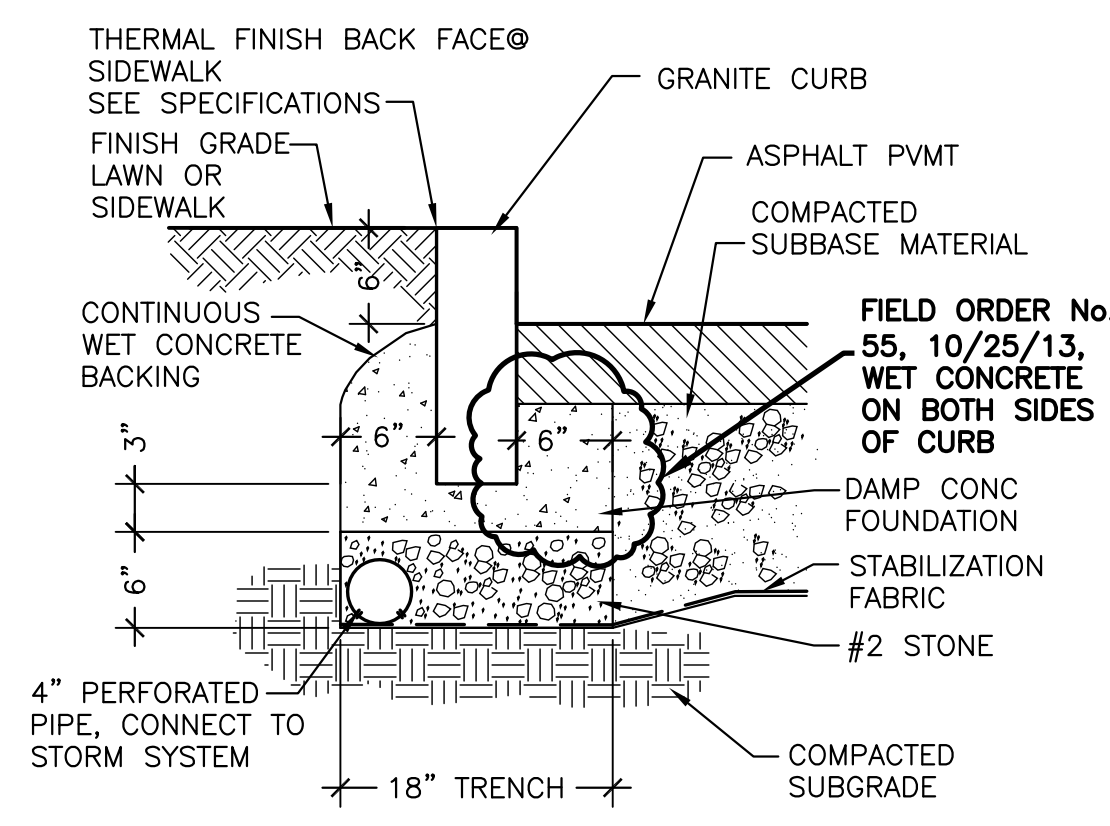
DROP CURB (5) G-113
NOT TO SCALE



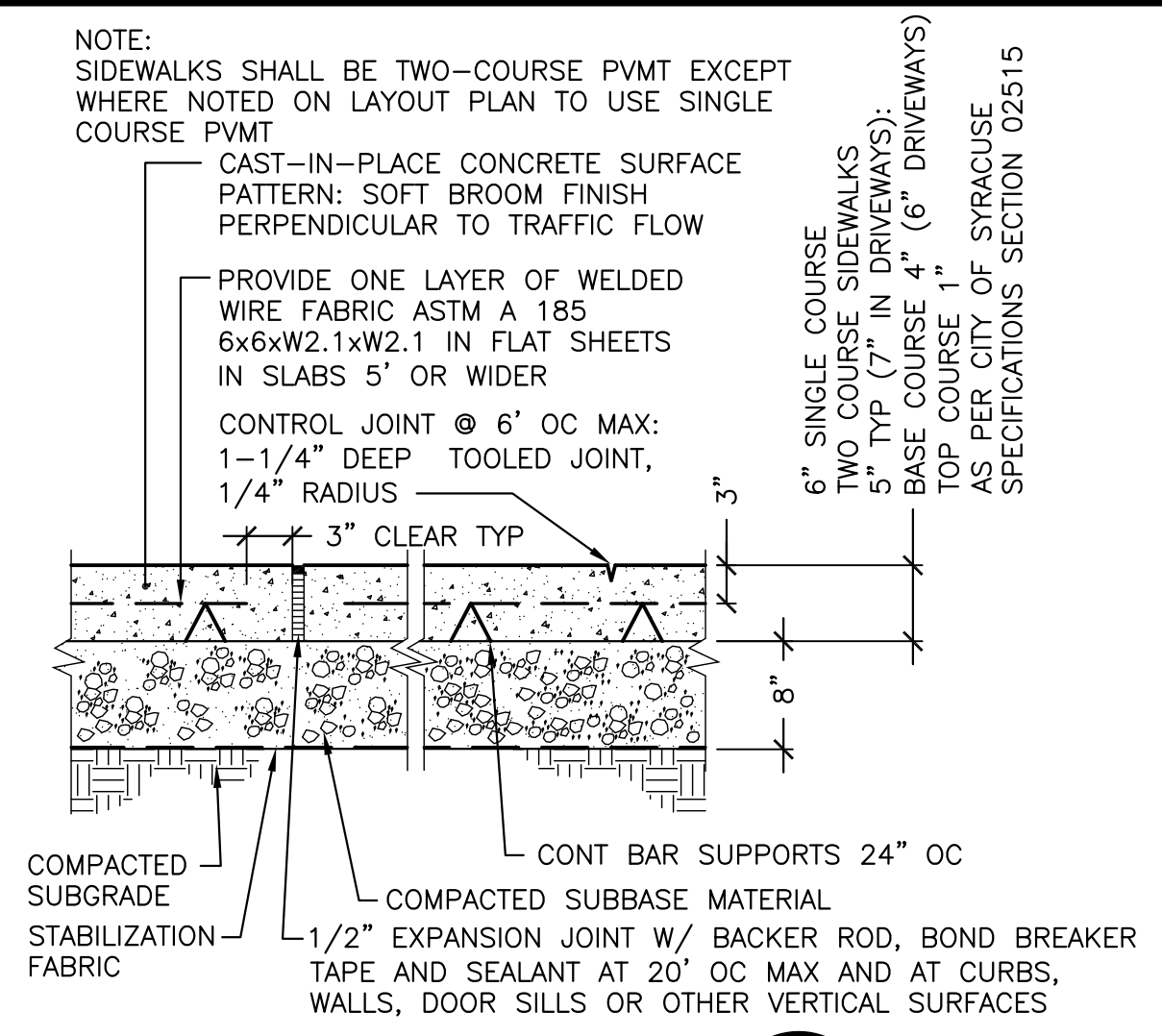
ASPHALT PAVEMENT (4) G-113
NOT TO SCALE



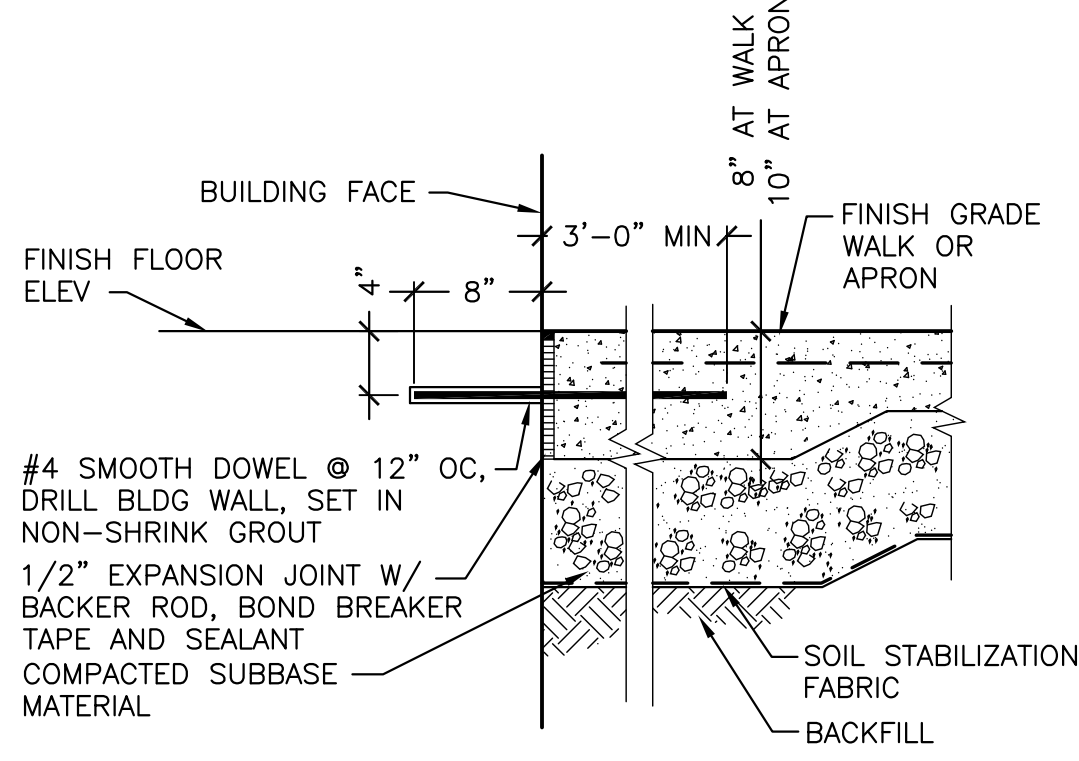
ASPHALT PAVEMENT - HEAVY DUTY (3) G-113
NOT TO SCALE



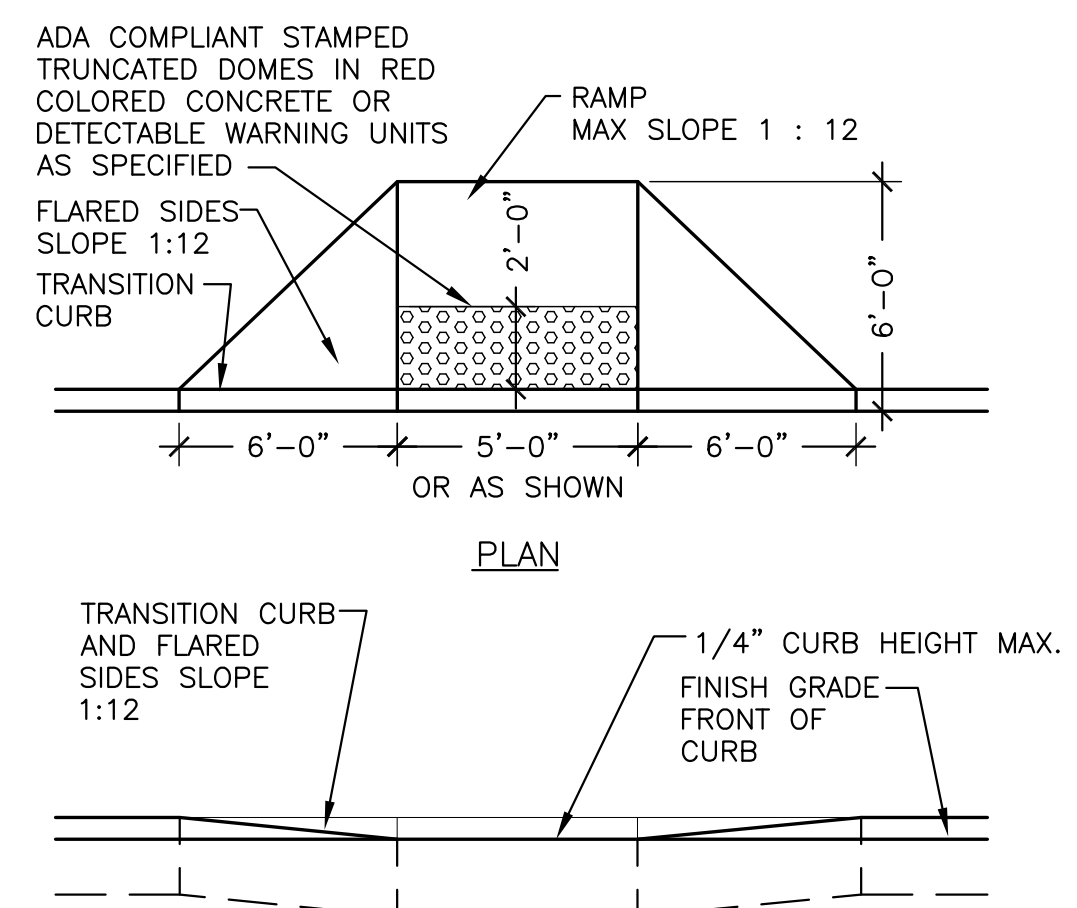
GRANITE CURB (2) G-113
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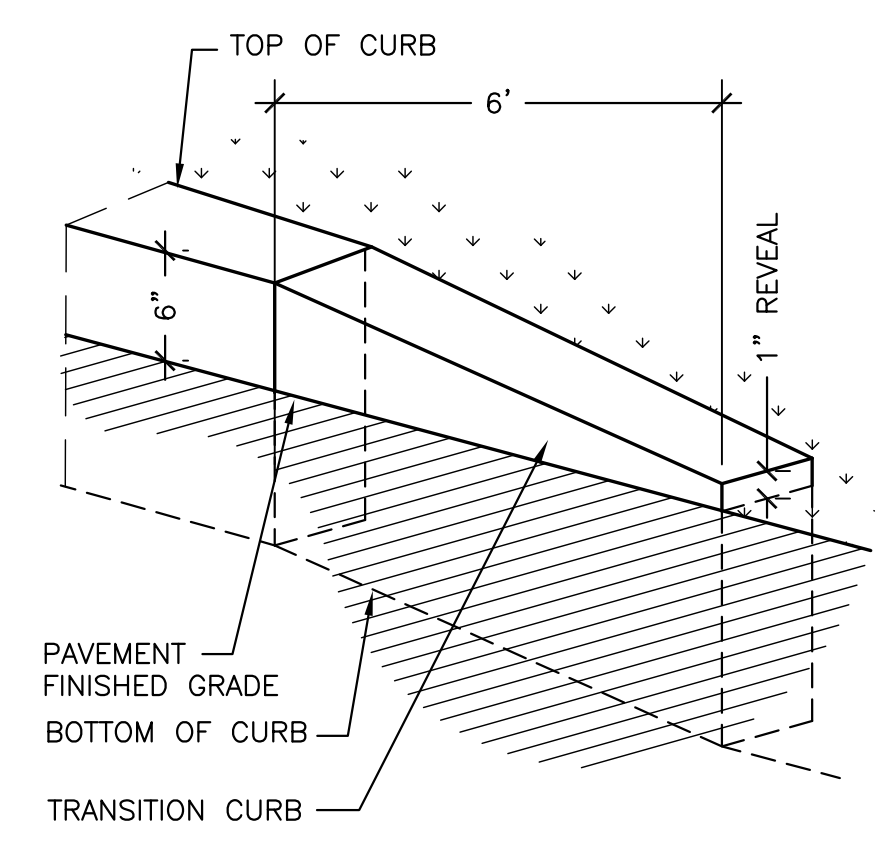
CONCRETE WALK (1) G-113
NOT TO SCALE



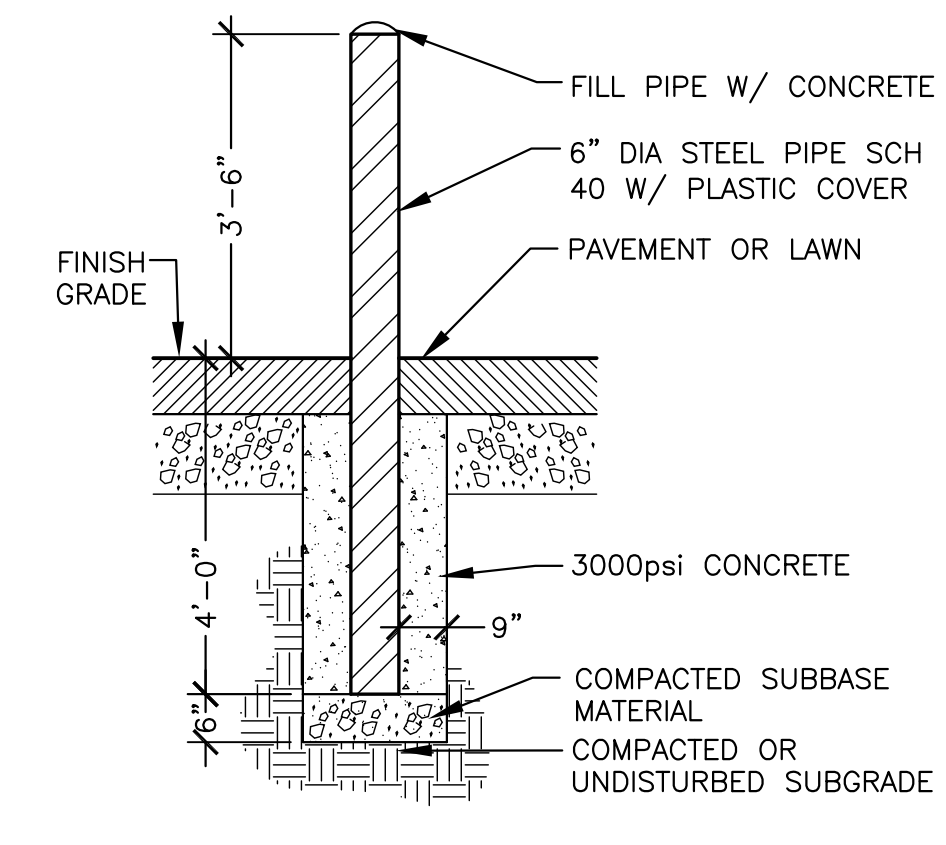
CONCRETE WALK AT DOOR (10) G-113
NOT TO SCALE



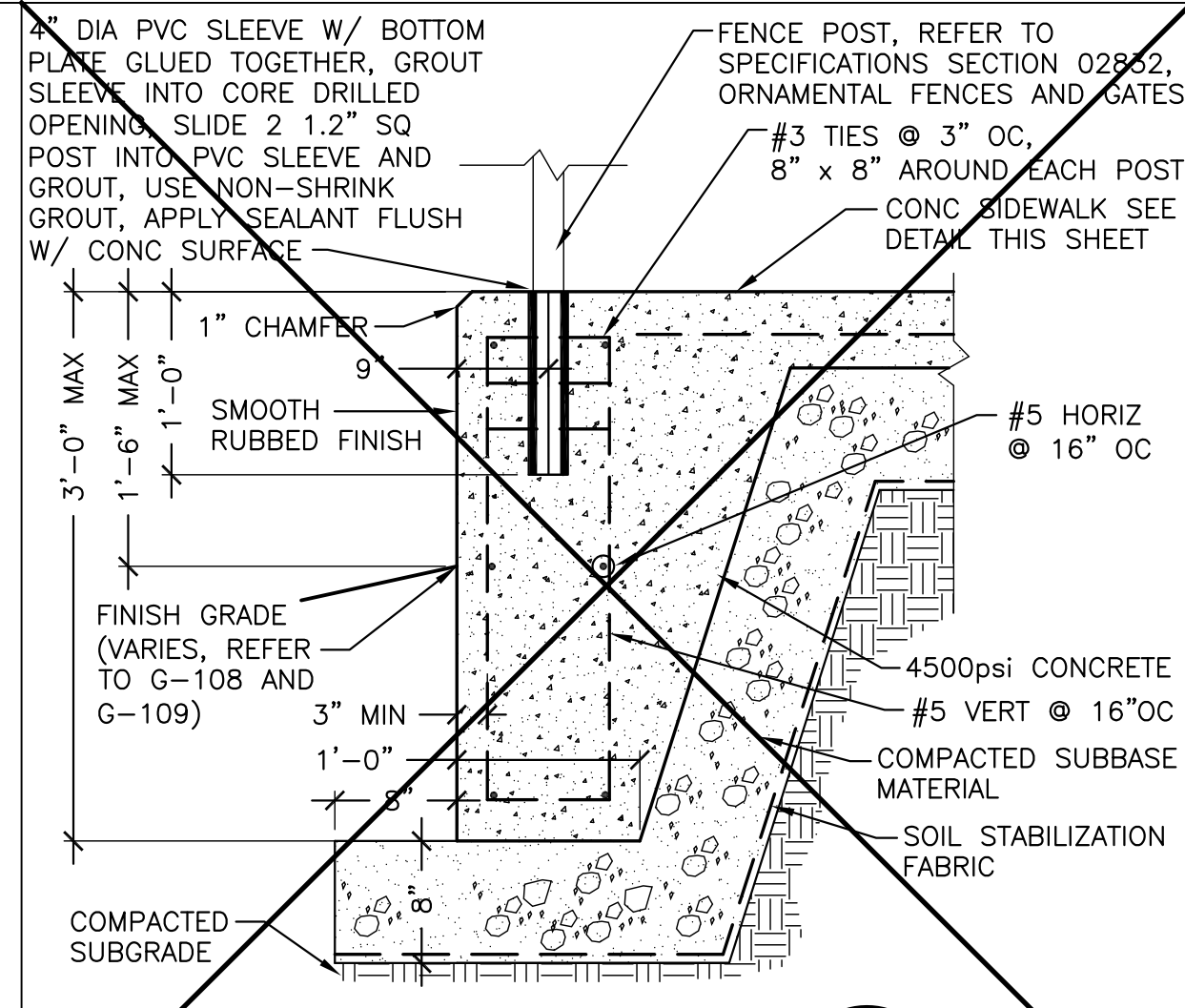
CURB RAMP (9) G-113
NOT TO SCALE



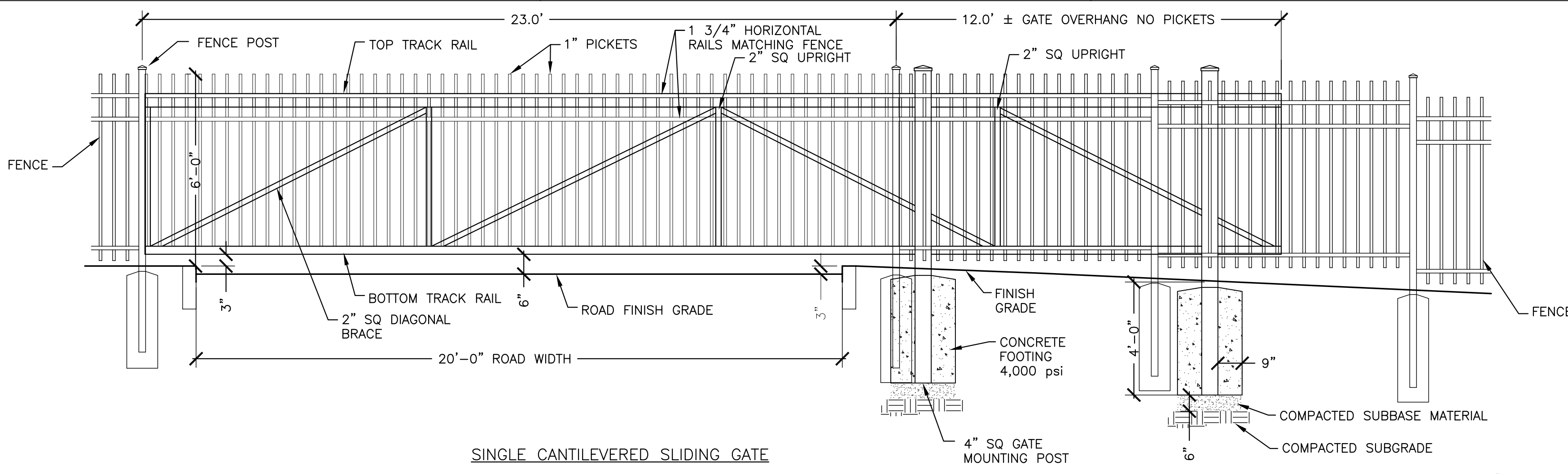
CURB TERMINAL (8) G-113
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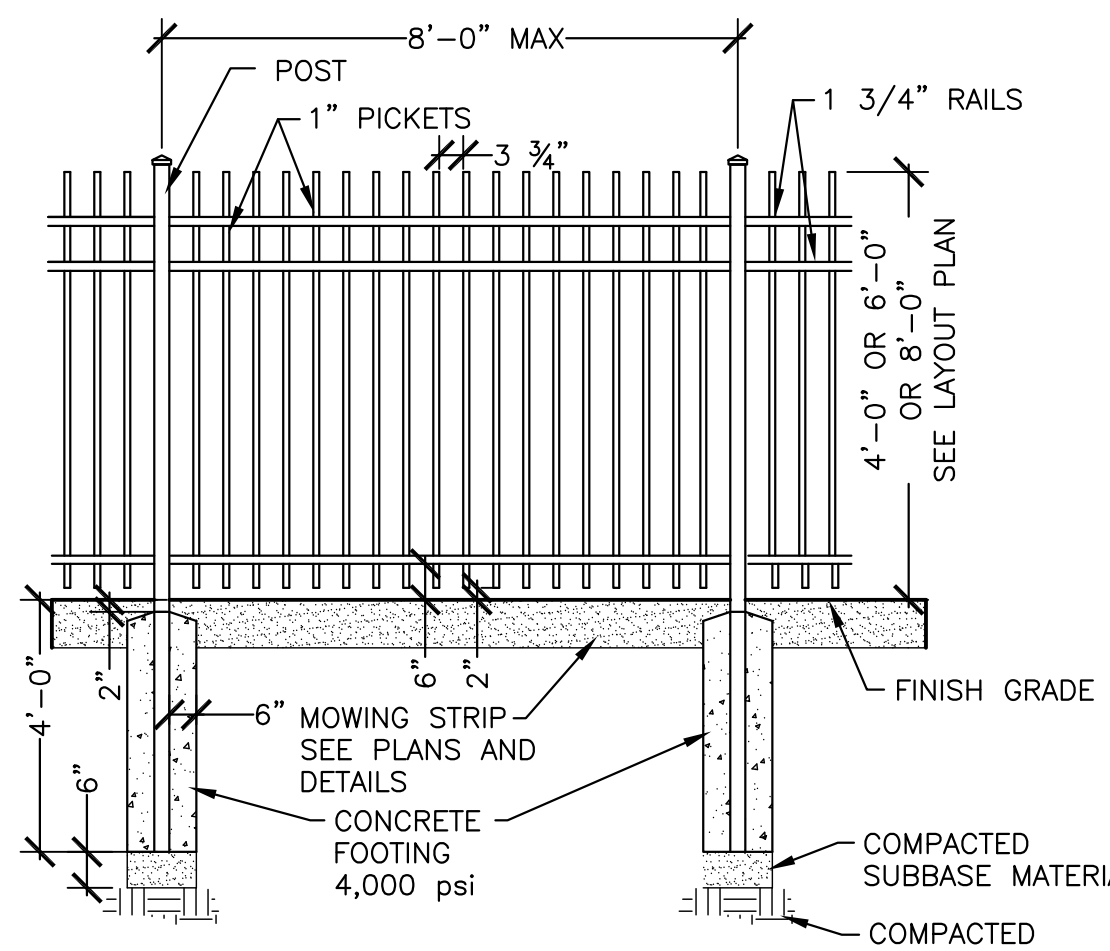
BOLLARD (7) G-113
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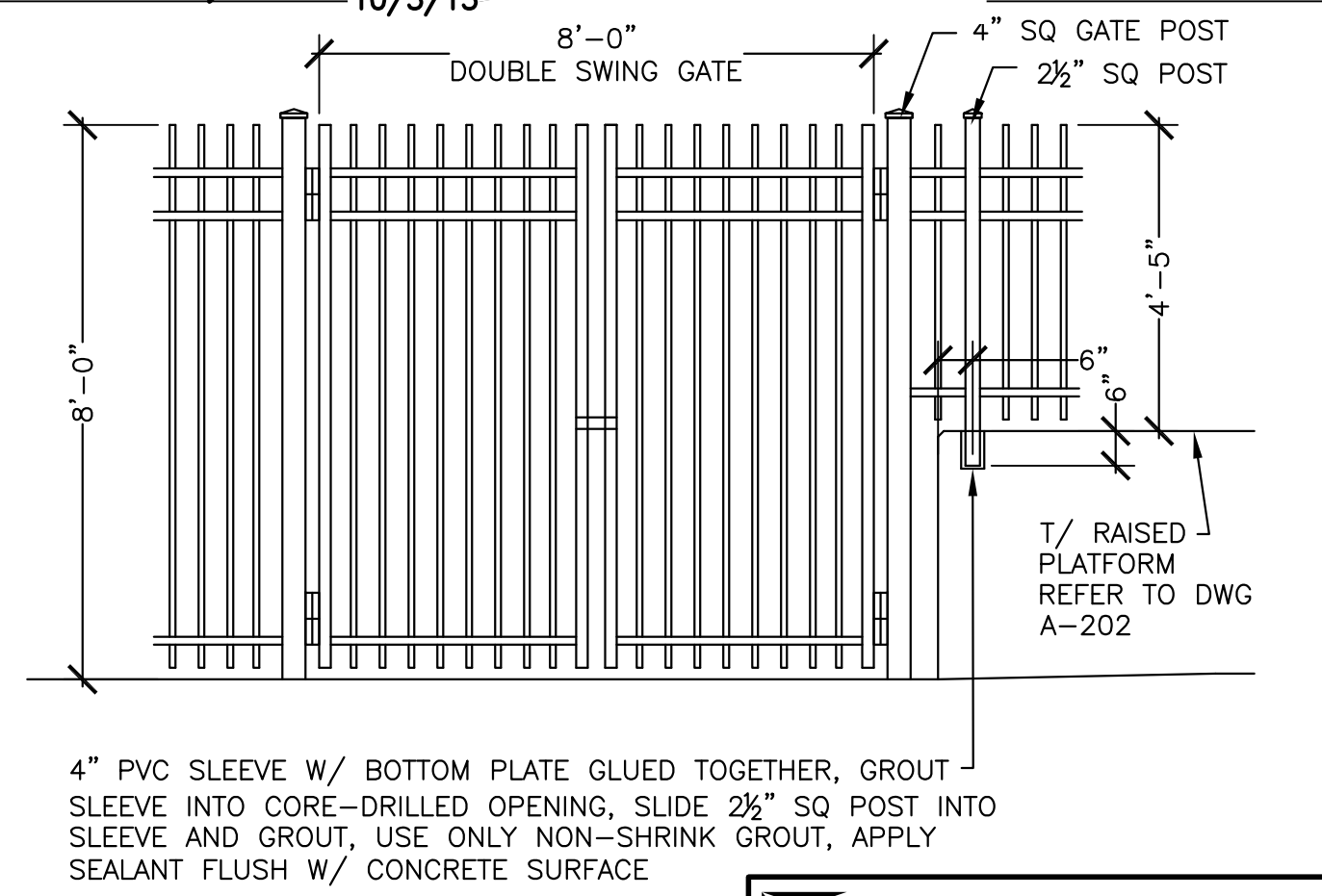
FENCE IN SIDEWALK (6) G-113
REFER TO SHEET G-113A FOR DETAIL
REVISED BY FIELD ORDER No. 37,
10/3/13



ORNAMENTAL PICKET FENCE AND GATES (12) G-113
SCALE 3/8"=1'-0"



FENCE



FENCE AND GATE ELEVATION AT E

L: ON=*; OFF=*REF*
X: MO/DA/YR CO DFT
DIR/DWG
SCALE:
AS NOTED

2	04/11	AS BID	TKL
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SITE DETAILS

GENERAL

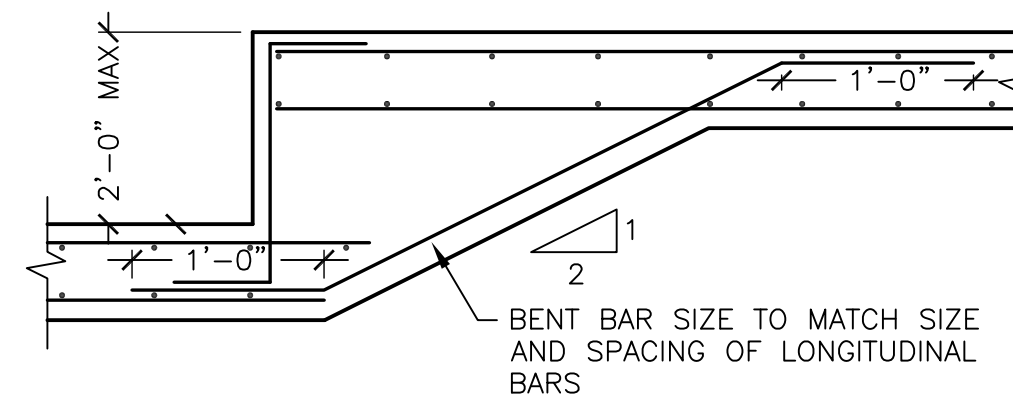
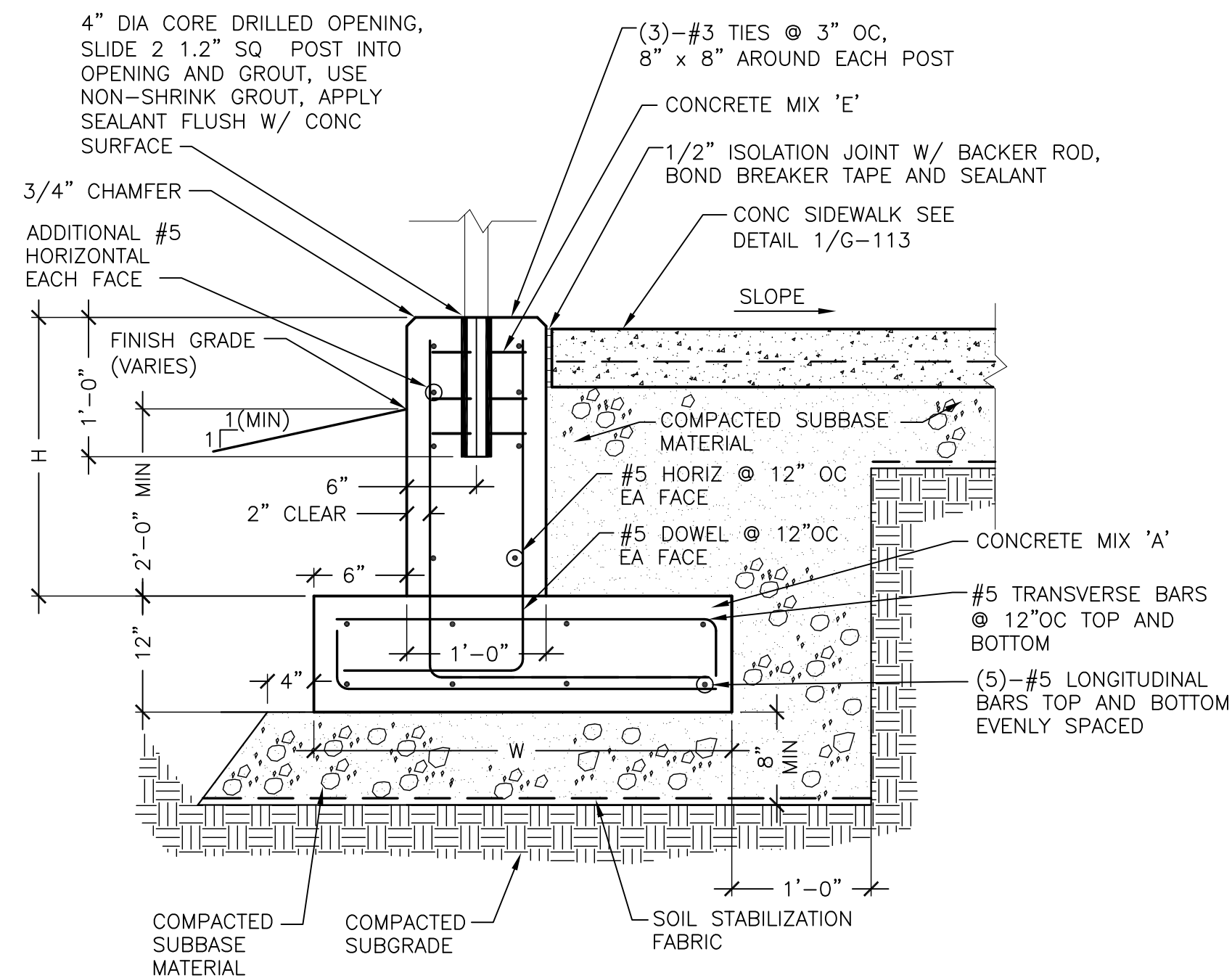


File Number
00663
Date
04/11

G-113

POST SIZES (REFER TO SPECIFICATIONS SECTION 02840)
FENCE HEIGHT UP TO 6' - 2 1/2" SQ ALUM PICKET
FENCE HEIGHT 8' - 3" SQ ALUM POST
GATE POSTS - 4" SQ STEEL POST

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
REGISTERED PROFESSIONAL ENGINEERS
RECORD DRAWING
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H (MAX)	W (MIN)
3'-0"	2'-0"
4'-0"	3'-0"
5'-0"	4'-0"

NOTES:

1. PROVIDE WALL CONTROL JOINTS AT EVERY SIDEWALK EXPANSION JOINT LOCATION.
2. PROVIDE 1-INCH EXPANSION JOINT IN THE WALL EVERY 250(±) FEET. INSTALL #8 SLIP DOWELS IN ACCORDANCE WITH SECTION 03250. IN LIEU OF CASTING IN A PLASTIC SLEEVE, IT WOULD BE ACCEPTABLE TO DRILL A 1 1/4-INCH HOLE INTO HARDENED CONCRETE

FENCE IN SIDEWALK, SHORT WALL, REVISED DETAIL 6/G-113

NOT TO SCALE

1
G-113A

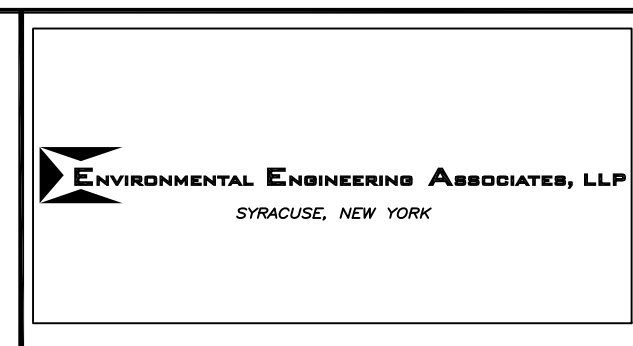
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X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
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No.	Date	Revisions	Init
1	10/13	FIELD ORDER #37	TKL

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CLINTON CSO STORAGE FACILITY PROJECT

SITE DETAILS

GENERAL



ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

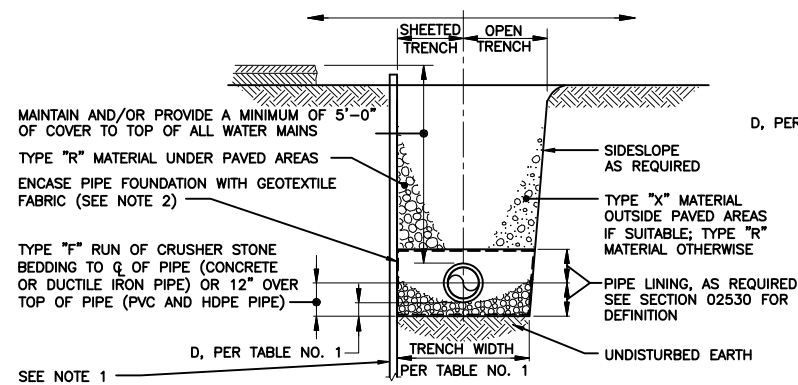
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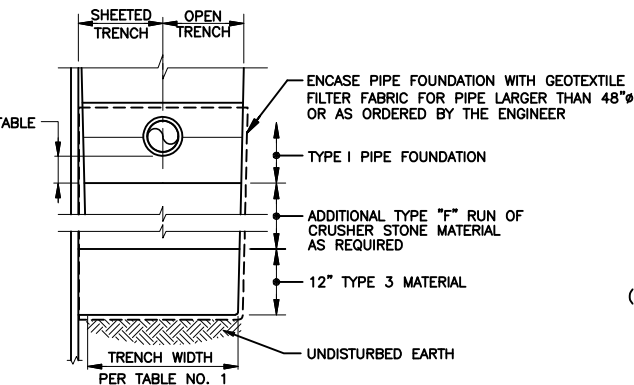
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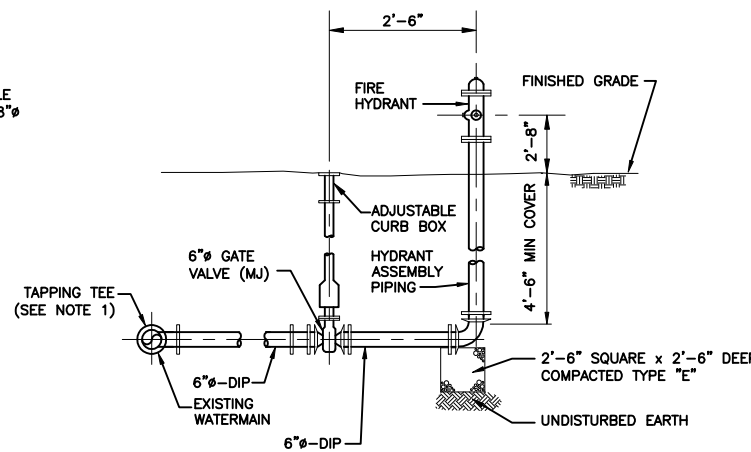
G-113A



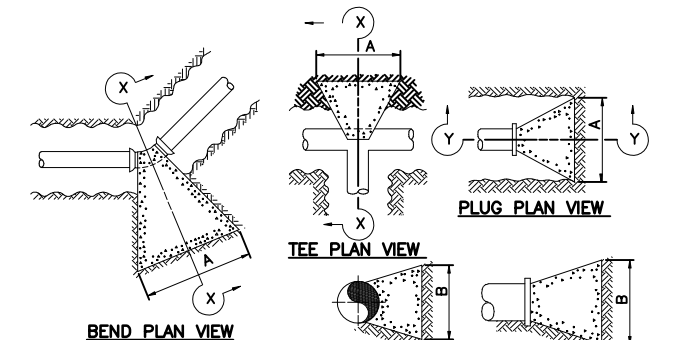
**TYPE I
PIPE FOUNDATION/TRENCH
FOR STABLE SOILS**



**TYPE II
IMPROVED PIPE FOUNDATION
FOR UNSTABLE SOILS**



FIRE HYDRANT DETAIL
NOT TO SCALE

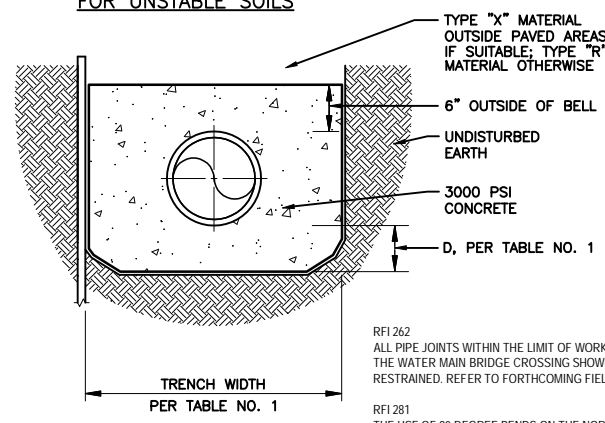


PIPE SIZE	DEGREE OF BEND	DIMENSIONS	
		A	B
8"	TEE OR PLUG	4'	2'
8"	90	5'	2 1/2'
8"	45	3'	2'
8"	22 1/2	3'	1'
8"	11 1/4	2'	1'

***TYPICAL DIMENSIONS OF THRUST
BLOCKS FOR HORIZONTAL BENDS,
TEES AND PLUGS OF WATER MAINS**
NOT TO SCALE

TABLE NO. 1 TRENCH WIDTH EXCAVATION LIMITS			
PIPE I.D.	WIDTH		D
	MAXIMUM	MINIMUM	
4", 6"	3'-0"	2'-0"	4"
8", 10"	3'-6"	2'-2"	4"
12"	3'-9"	O.D. + 2'	4"
15"	3'-9"	O.D. + 2'	4"
16"	3'-6"	O.D. + 2'	6"
18"	6'-0"	O.D. + 2'	6"
24"	7'-0"	O.D. + 2'	6"

D = DEPTH BETWEEN BOTTOM OF PIPE AND BOTTOM OF NORMAL PIPE FOUNDATION
OD = OUTSIDE DIAMETER
*NOT FOR 12" SANITARY SEWER
SEE DETAIL ON SHEET G-129

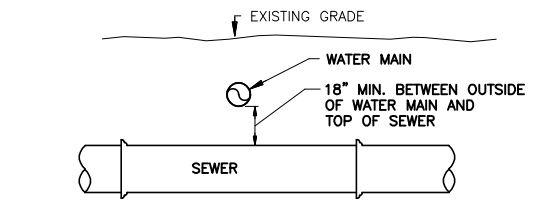


**TYPE III
CONCRETE ENCASEMENT**

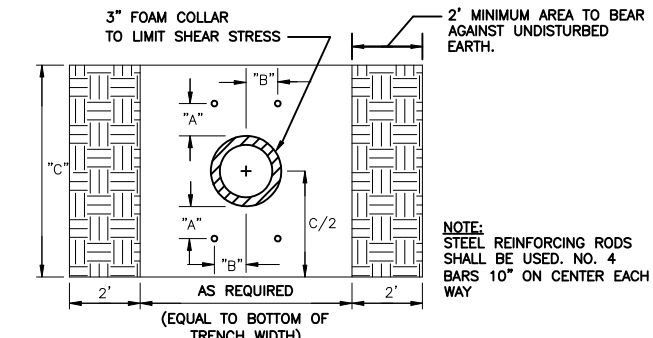
RFI 262
ALL PIPE JOINTS WITHIN THE LIMIT OF WORK SPECIFIED UNDER THE WATER MAIN BRIDGE CROSSING SHOWN ON G-118 SHALL BE RESTRAINED. REFER TO FORTHCOMING FIELD ORDER #52.

RFI 281
THE USE OF 90 DEGREE BENDS ON THE NORTH SIDE OF THE PIPE IS GENERALLY ACCEPTABLE. PLEASE SUBMIT A SKETCH SHOWING THE AS-BUILT LOCATION OF THE WATERMAIN BRIDGE PIER AND PROPOSED SIDEWALK FOR REVIEW BY THE CITY WATER DEPARTMENT.

RFI 336
THE ALUMINUM JACKET SUBSTITUTION AS PROPOSED IS ACCEPTABLE. THE BANDS SHOULD BE SPACED AT THE MANUFACTURER'S RECOMMENDED SPACING.



TYPICAL WATER & SEWER CROSSING
NOT TO SCALE



PIPE SIZE	"A"	"B"	"C"	RESTRAINT HOLE DIA.
8"	5 1/2"	5 3/4"	36"	7/8"
16"	N/A	N/A	36"	N/A*

CONCRETE TRENCH THRUST BLOCK
NOT TO SCALE

NOTE
1. YARD PIPING INCLUDES SANITARY LATERALS, STORM, AND WATER UTILITY PIPING. REFER TO SHEET G-129 FOR CONVEYANCE TRENCHING DETAIL AND 12" SANITARY SEWER TRENCH DETAIL.

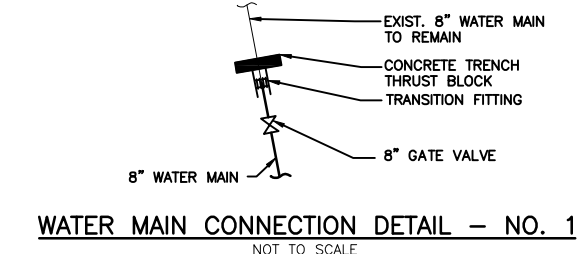
PIPE FOUNDATION/TRENCH DETAILS (YARD PIPING)
NOT TO SCALE

FO 10
USE TYPE F SELECT FILL FOR FULL DEPTH BACKFILL OF ALL TRENCHES WITHIN THE BOUNDARY OF A CITY STREET. THIS WOULD APPLY TO PIPE TRENCHES AND ELECTRICAL DUCT BANKS TO BE CONSTRUCTED IN THE DICKERSON ST CITY ROW. ADDITIONAL BACKFILL WOULD BE PAID UNDER BID ITEM 4.7 ADDITIONAL BACKFILL AS ORDERED BY THE ENGINEER.

FO 30
DUE TO THE PRESENCE OF SUSPECTED IMPACTED MATERIALS, THE GASKETS UTILIZED ON THE DUCTILE IRON WATERMAINS SHALL BE OIL RESISTANT BUNA-N (NITRILE) RUBBER.

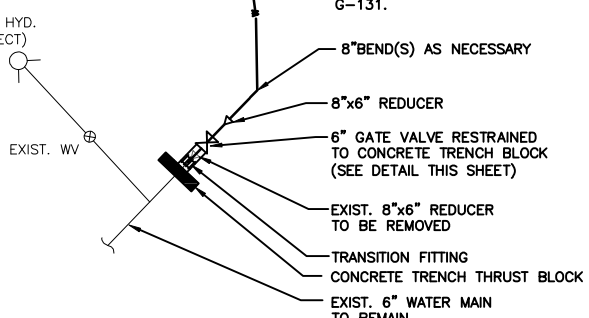
FO 52
ALL PIPE JOINTS WITHIN THE LIMIT OF WORK SPECIFIED UNDER THE WATER MAIN BRIDGE CROSSING SHOWN ON G-118 SHALL BE RESTRAINED.

PROVIDE EBBA IRON, SERIES 1700 MEGALUG RESTRAINT HARNESSSES, OR EQUAL, TO BE INSTALLED ON ABOVE GRADE PUSH-ON PIPE JOINTS AT WATER MAIN BRIDGE CROSSING SHOWN ON G-118.

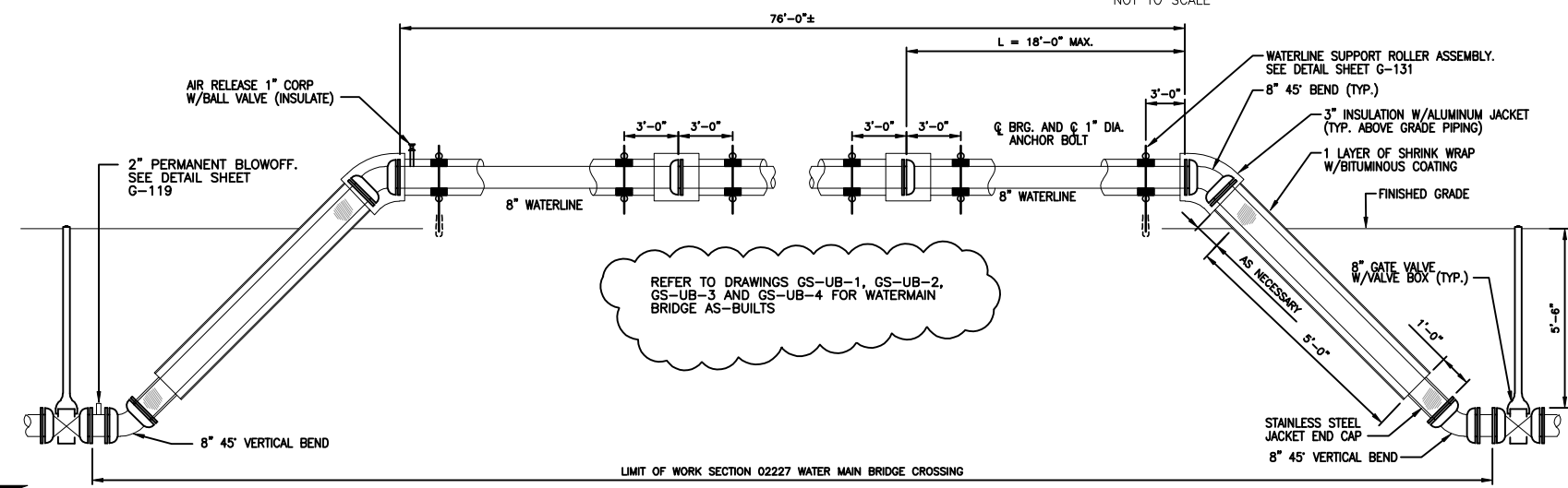


WATER MAIN CONNECTION DETAIL - NO. 1
NOT TO SCALE

NOTES:
1. REFER TO YARD PIPING PLAN FOR ACTUAL LOCATIONS OF CONNECTIONS AND CONFIGURATIONS.
2. ALL FITTINGS TO BE FULLY RESTRAINED MECHANICAL JOINT, MEGALUG OR APPROVED EQUAL.
3. REFER TO SPECIAL PROJECT CONDITIONS FOR WORK ON CITY WATER MAINS.



WATER MAIN CONNECTION DETAIL - NO. 2
NOT TO SCALE



SECTION - WATER MAIN OVER ONONDAGA CREEK
NOT TO SCALE

NOTES:
1. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT.
2. REFER TO SHT. G-130, G-131 AND G-132 FOR BRIDGE DETAILS.
3. CONTRACTOR TO PROVIDE CHAIN LINK FENCE BARRICADE AT BOTH ENDS OF WATER MAIN BRIDGE TO PREVENT PEDESTRIAN ACCESS ACROSS.

L: ON=*, OFF=REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:

No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

In charge of RCF
Designed by RWS
Drawn by RWS
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

MISCELLANEOUS SITE WORK DETAILS

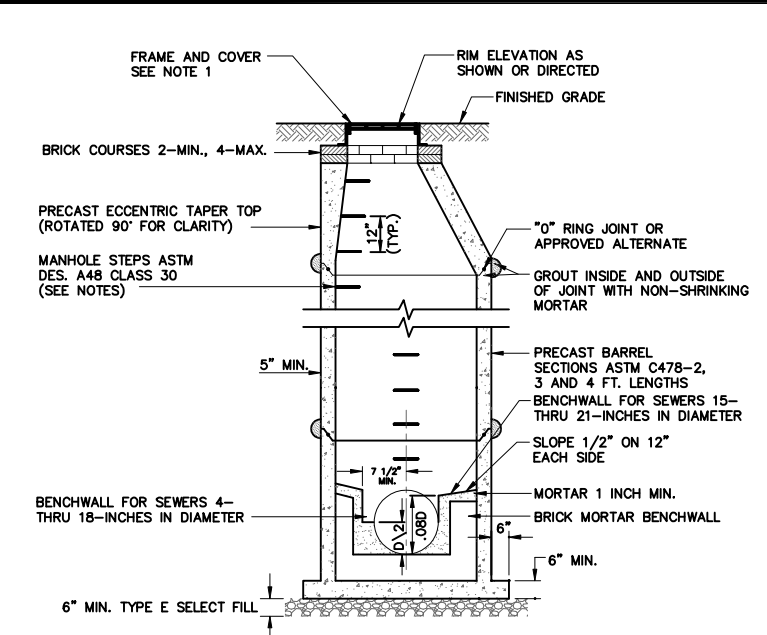
GENERAL

STATE OF NEW YORK
SEAL OF THE PROFESSIONAL ENGINEER

File Number
00663

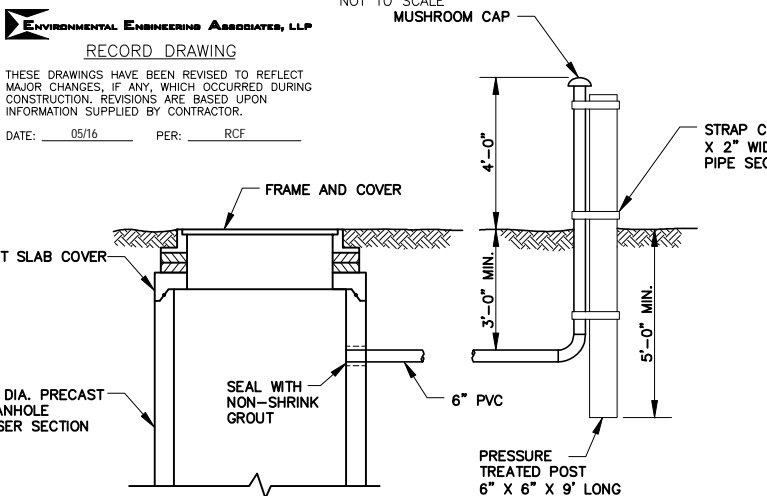
Date
04/11

G-118

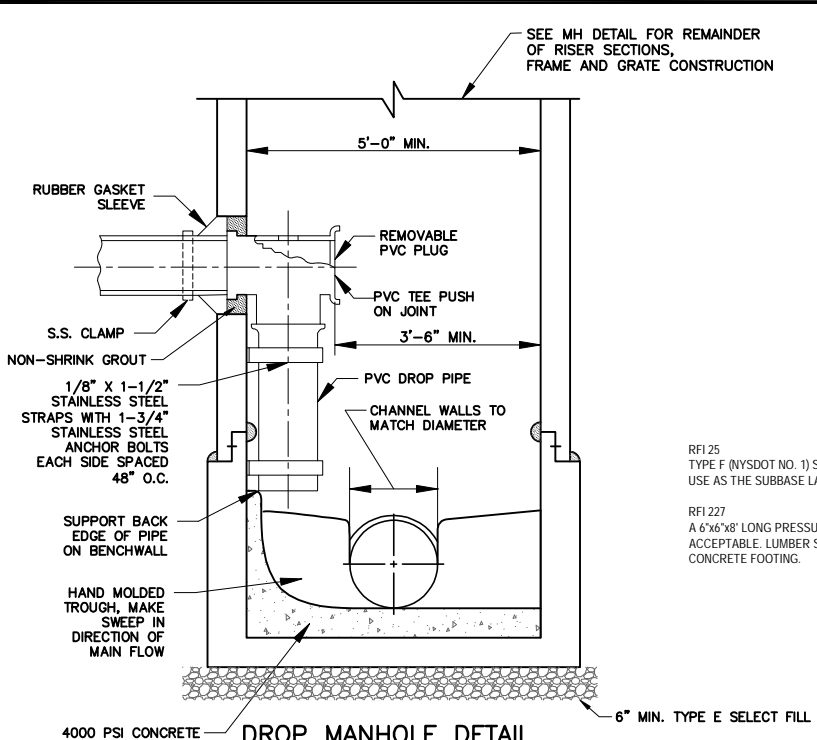


- MANHOLE NOTES:**
1. FRAME AND COVERS:
 - SANITARY MANHOLES: SHALL BE SYRACUSE CASTINGS SALES CORP. PATTERN 1016A OR APPROVED EQUAL. LETTERING ON COVER TO READ "SANITARY SEWER"
 - CONVEYANCE MANHOLES: SHALL BE SYRACUSE CASTINGS SALES CORP. PATTERN 1108D OR APPROVED EQUAL. LETTERING ON COVER TO READ "SANITARY SEWER"
 - TUNNEL MIDPOINT MANHOLES: SHALL BE SYRACUSE CASTINGS SALES CORP. PATTERN 1016A OR APPROVED EQUAL. LETTERING ON COVER TO READ "SANITARY SEWER"
 2. STEPS SHALL BE FURNISHED FOR ALL MANHOLES IN ACCORDANCE WITH THE SPECIFICATIONS.
 3. CONTRACTOR SHALL CONSTRUCT, AT NO EXTRA COST, MANHOLES WITH FLAT SLAB COVERS OF APPROVED DESIGN, WHERE THE MANHOLE DEPTH IS INSUFFICIENT TO PERMIT INSTALLATION OF A TAPER TOP OR WHERE OTHERWISE SHOWN.
 4. SEE SPECIFICATION SECTION 02514 FOR WATER PROOFING TREATMENT FOR EXTERIOR SURFACES OF BELOW GRADE PRECAST MANHOLES.
 5. MANHOLES SHALL BE 4 - FOOT DIAMETER UNLESS INDICATED OTHERWISE.

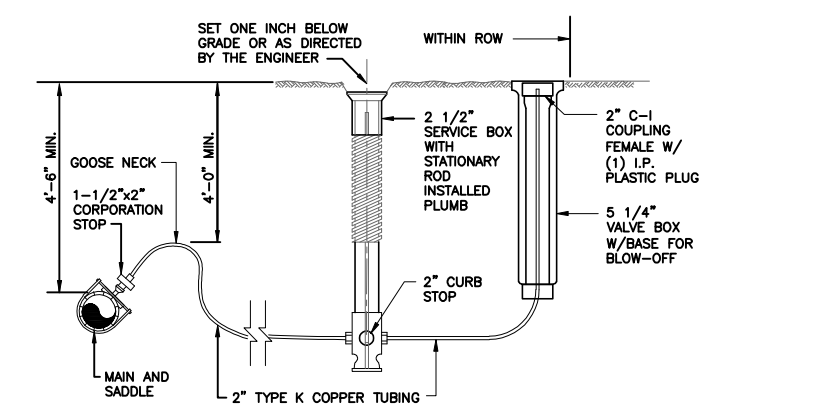
PRECAST MANHOLE DETAIL
NOT TO SCALE



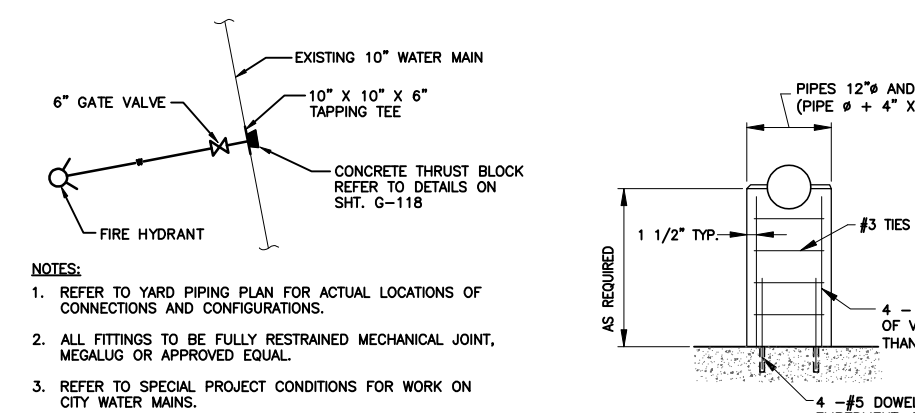
MANHOLE VENT CONNECTION DETAIL
TYPICAL FOR MANHOLES AT TUNNEL MIDPOINT
NOT TO SCALE



DROP MANHOLE DETAIL
NOT TO SCALE

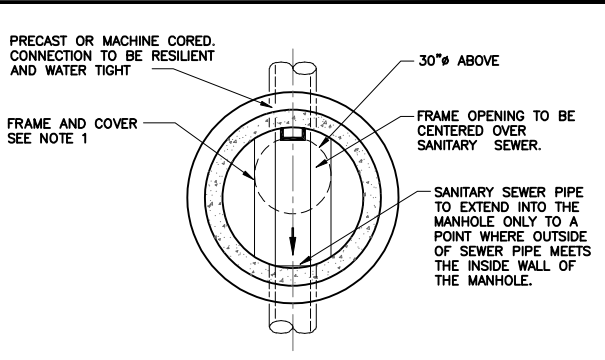


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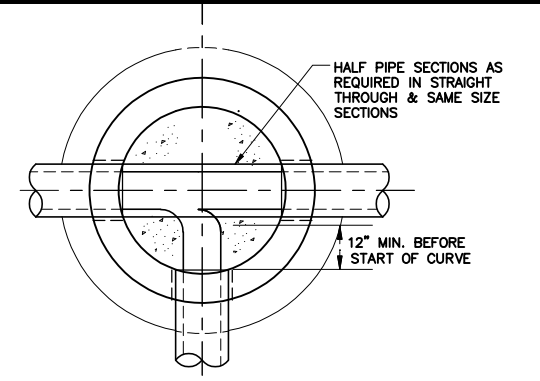


WATER MAIN CONNECTION DETAIL - NO. 3
NOT TO SCALE

- NOTES:**
1. REFER TO YARD PIPING PLAN FOR ACTUAL LOCATIONS OF CONNECTIONS AND CONFIGURATIONS.
 2. ALL FITTINGS TO BE FULLY RESTRAINED MECHANICAL JOINT, MEGALUG OR APPROVED EQUAL.
 3. REFER TO SPECIAL PROJECT CONDITIONS FOR WORK ON CITY WATER MAINS.



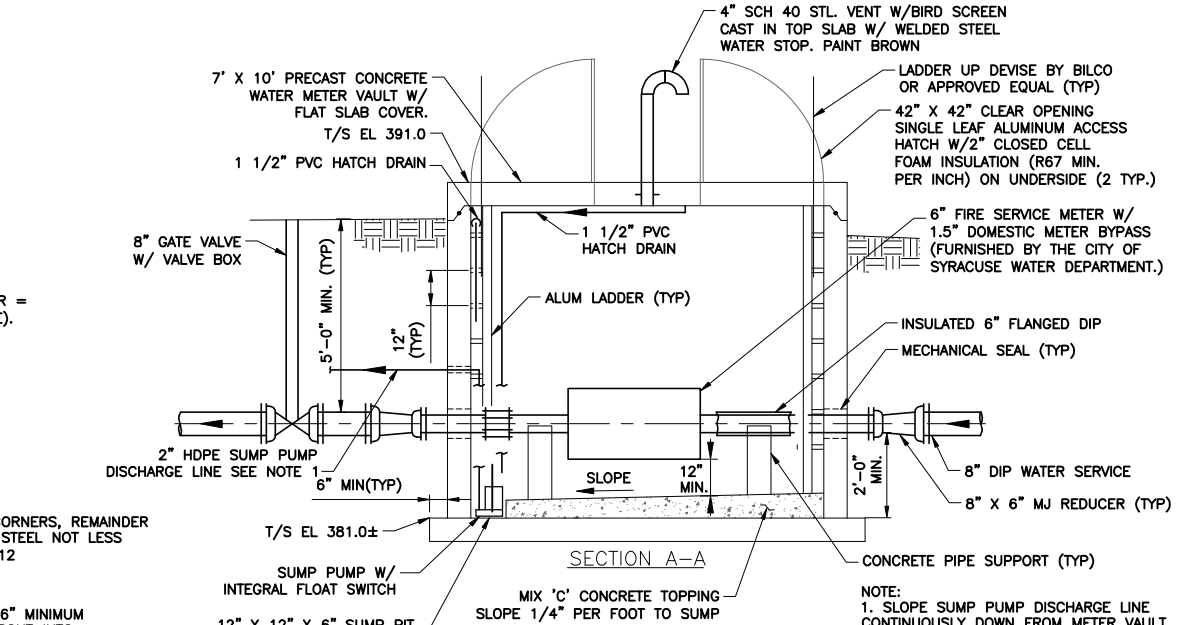
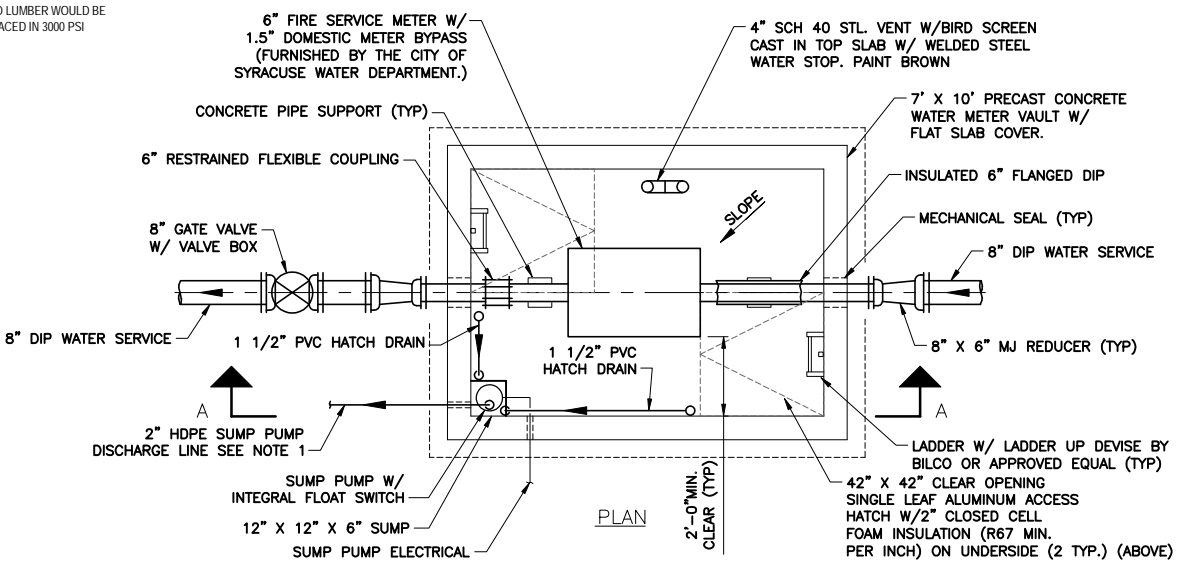
TYPICAL PRECAST MANHOLE PLAN
NOT TO SCALE



TYPICAL BENCHWALL DETAIL
NOT TO SCALE

RFI 25
TYPE F (WYSOT NO. 1) SELECT FILL IS ACCEPTABLE FOR USE AS THE SUBBASE LAYER UNDER PRECAST MANHOLES.

RFI 227
A 6"x6"x8" LONG PRESSURE TREATED LUMBER WOULD BE ACCEPTABLE. LUMBER SHALL BE PLACED IN 3000 PSI CONCRETE FOOTING.



WATER METER VAULT DETAIL
NOT TO SCALE

- NOTE:**
1. SLOPE SUMP PUMP DISCHARGE LINE CONTINUOUSLY DOWN FROM METER VAULT TO CATCH BASIN. PROVIDE DUCK BILL CHECK VALVE AT END OF DISCHARGE PIPE IN CATCH BASIN. PROVIDE MECHANICAL SEAL FOR WALL PENETRATIONS.

L: ON=*, OFF=REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: NONE

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

In charge of RCF
Designed by RWS
Drawn by RWS
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

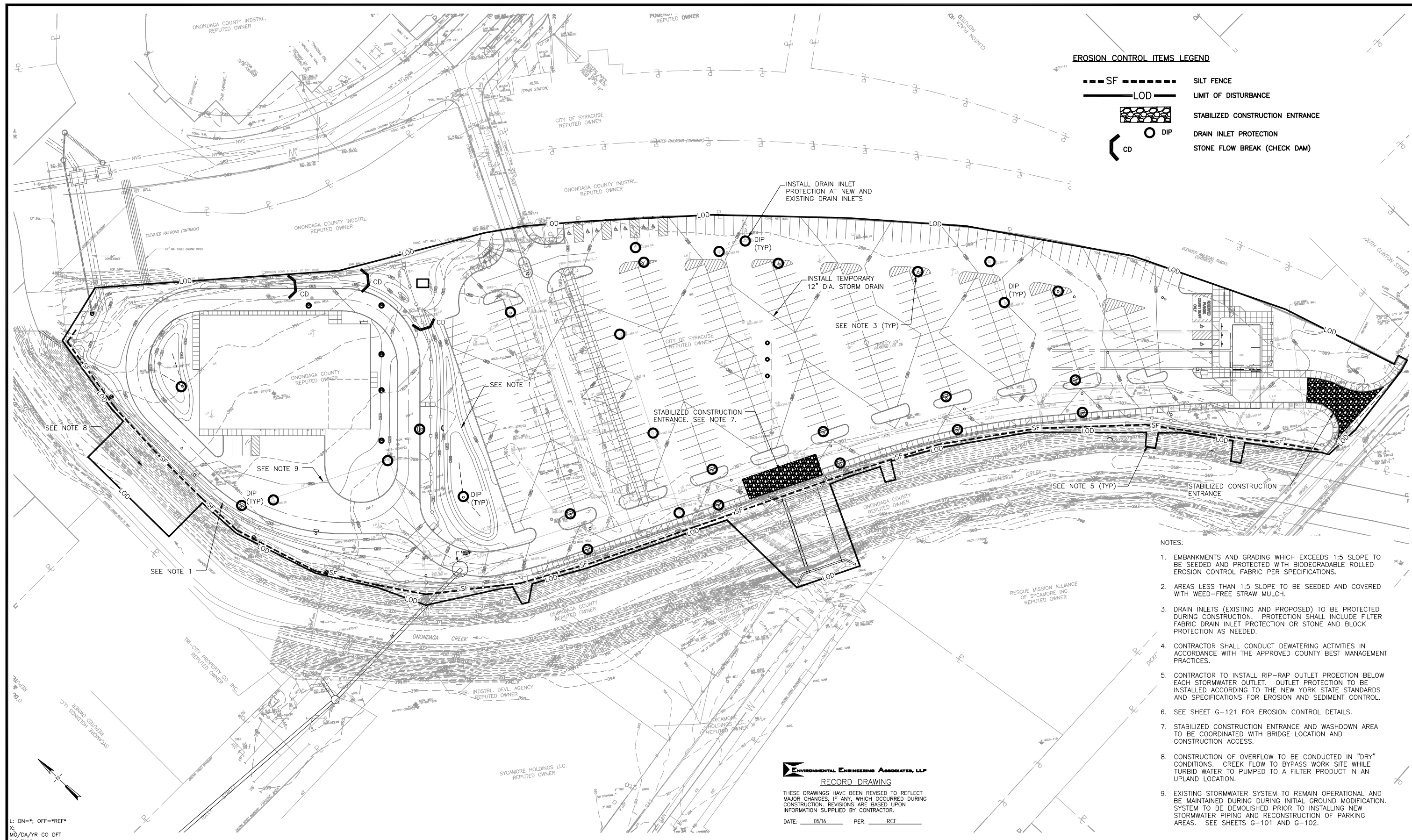
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

MISCELLANEOUS SITE WORK DETAILS

File Number
00663

Date
04/11

Signature



EROSION CONTROL ITEMS LEGEND

- SF --- SILT FENCE
- LOD — LIMIT OF DISTURBANCE
- [Pattern] STABILIZED CONSTRUCTION ENTRANCE
- DIP DRAIN INLET PROTECTION
- ◁ CD ▷ STONE FLOW BREAK (CHECK DAM)

- NOTES:
- EMBANKMENTS AND GRADING WHICH EXCEEDS 1:5 SLOPE TO BE SEEDED AND PROTECTED WITH BIODEGRADABLE ROLLED EROSION CONTROL FABRIC PER SPECIFICATIONS.
 - AREAS LESS THAN 1:5 SLOPE TO BE SEEDED AND COVERED WITH WEED-FREE STRAW MULCH.
 - RAIN INLETS (EXISTING AND PROPOSED) TO BE PROTECTED DURING CONSTRUCTION. PROTECTION SHALL INCLUDE FILTER FABRIC DRAIN INLET PROTECTION OR STONE AND BLOCK PROTECTION AS NEEDED.
 - CONTRACTOR SHALL CONDUCT DEWATERING ACTIVITIES IN ACCORDANCE WITH THE APPROVED COUNTY BEST MANAGEMENT PRACTICES.
 - CONTRACTOR TO INSTALL RIP-RAP OUTLET PROTECTION BELOW EACH STORMWATER OUTLET. OUTLET PROTECTION TO BE INSTALLED ACCORDING TO THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
 - SEE SHEET G-121 FOR EROSION CONTROL DETAILS.
 - STABILIZED CONSTRUCTION ENTRANCE AND WASHDOWN AREA TO BE COORDINATED WITH BRIDGE LOCATION AND CONSTRUCTION ACCESS.
 - CONSTRUCTION OF OVERFLOW TO BE CONDUCTED IN "DRY" CONDITIONS. CREEK FLOW TO BYPASS WORK SITE WHILE TURBID WATER TO PUMPED TO A FILTER PRODUCT IN AN UPLAND LOCATION.
 - EXISTING STORMWATER SYSTEM TO REMAIN OPERATIONAL AND BE MAINTAINED DURING INITIAL GROUND MODIFICATION. SYSTEM TO BE DEMOLISHED PRIOR TO INSTALLING NEW STORMWATER PIPING AND RECONSTRUCTION OF PARKING AREAS. SEE SHEETS G-101 AND G-102.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 05/16 PER: RCF

L: ON=*; OFF=REF*
 X:
 MO/DA/YR CO DFT
 DIR/DWG



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In charge of — RCF
 Designed by — GSL
 Drawn by — GSL
 Checked by — RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

EROSION CONTROL PLAN

GENERAL

File Number 00663
 Date 04/11

STATE OF NEW YORK
 SEAL OF THE PROFESSIONAL ENGINEER

G-120

EROSION CONTROL NOTES:

- CONTRACTOR TO OBTAIN AND REFERENCE THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROL, LATEST EDITION" AS HE CONDUCTS EROSION CONTROL OPERATIONS. ALL SITE EROSION CONTROLS SHALL FOLLOW THE STATE STANDARDS AND THE NOTES AND DETAILS ON THIS DRAWING SHEET.
- CONTRACTOR RESPONSIBLE FOR COMPLYING WITH SECTION 4 OF THE NEW YORK STATE SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES (GP-0-10-011) AND SHALL HAVE A TRAINED CONTRACTOR PRESENT ON THE SITE DAILY.
- CONSTRUCTION ACTIVITIES AT THE SITE WILL INVOLVE SITE PREPARATION NECESSARY FOR CONSTRUCTION OF VARIOUS FACILITIES, INSTALLATION OF UNDERGROUND UTILITIES, CONSTRUCTION OF VEHICULAR ACCESSWAYS, AND CONSTRUCTION OF THE PROPOSED STORMWATER MANAGEMENT SYSTEMS. THESE ACTIVITIES PRIMARILY INCLUDE EXCAVATION; HAULING AND STOCKPILING OF TOP AND SUBSOILS; ROUGH GRADING; SURFACING OF DRIVEWAYS; AND TRENCHING, BEDDING, AND BACKFILL ASSOCIATED WITH FOUNDATION AND UNDERGROUND UTILITIES.
- EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY SOIL DISTURBING ACTIVITIES AND WILL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS COMPLETE. LIMITING THE EXPOSED SOILS WILL REDUCE THE AMOUNT OF SEDIMENTS IN RUNOFF WATER AND ULTIMATELY PRESERVE THE QUALITY OF SURFACE WATERS.
- TEMPORARY AND PERMANENT STABILIZATION WILL BE IMPLEMENTED BEFORE CONSTRUCTION BEGINS AND WILL BE CONTINUALLY MODIFIED THROUGHOUT THE PROJECT TO PROVIDE THE BEST METHODS FOR STORMWATER MANAGEMENT AND POLLUTION PREVENTION. A GENERAL CONSTRUCTION SEQUENCE SCHEDULE IS AS FOLLOWS:

PRECONSTRUCTION ACTIVITIES

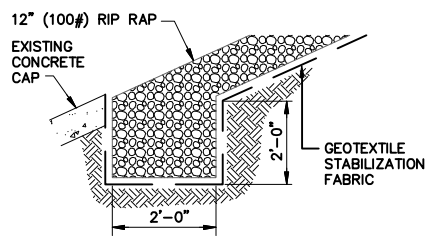
- IDENTIFY ON-SITE AND DOWNSTREAM SURFACE WATER BODIES AND INSTALL CONTROLS TO PROTECT THEM FROM SEDIMENT.
- CONDUCT A PRECONSTRUCTION MEETING WITH OWNER AND ENGINEER AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION.

DURING CONSTRUCTION ACTIVITIES

- INSTALL PERIMETER SEDIMENT CONTROLS SUCH AS SILT FENCE AS SHOWN ON THE PROJECT PLANS.
- INSTALL CONSTRUCTION FENCE AS NEEDED.
- ESTABLISH CONSTRUCTION STAGING AND SOIL STOCKPILE AREAS ASSOCIATED AS SHOWN ON SITE PLANS.
- INSTALL TEMPORARY CONSTRUCTION ACCESS AND ANTI-TRACKING PAD AS SHOWN ON THE PROJECT PLANS.
- CONTRACTOR RESPONSIBLE FOR MAINTAINING EXISTING STORMWATER SYSTEM IN PARKING AREA DURING INITIAL CONSTRUCTION STAGE. DRAIN INLET PROTECTION TO BE INSTALLED IN ACCORDANCE WITH PROJECT SWPPP TO PREVENT SEDIMENTATION DURING CONSTRUCTION.
- DEWATER WORK SITE IN ACCORDANCE WITH APPROVED COUNTY BEST MANAGEMENT PRACTICES.
- INSTALL UNDERGROUND UTILITY WORK, INCLUDING STORMWATER DRAINS AND OTHER YARD PIPING, AS WELL AS PERMANENT OUTLET STRUCTURE IN STORMWATER WETLAND.
- SURFACE GRADE BUILDING CONSTRUCTION. THIS INCLUDES INTERIOR/EXTERIOR BUILDING, INSTRUMENTS, AND OTHER PROCESS-RELATED ITEMS.
- SITE RESTORATION AND FINAL GRADING.
- FLUSH AND CLEAN ALL STORM DRAIN SYSTEMS TO REMOVE SEDIMENT.
- TOPSOIL AND SEED DISTURBED AREAS EXCEPT FOR STORMWATER MANAGEMENT AREAS.
- FINAL CLEANING AND STABILIZATION OF BIOTENTION BASINS AND SWALE. THIS WORK INCLUDES REMOVING SEDIMENT BUILDUP FROM BASINS, SEDIMENT FOREBAYS AND CATCH BASINS. AFTER CLEANING, ALL AREAS SHALL BE INSPECTED FOR VEGETATIVE GROWTH AND REPLANTED AS NEEDED.
- OUTFALL CONSTRUCTION ALONG CREEK TO BE CONSTRUCTED IN A MANNER WHICH AVOIDS AND MINIMIZES WATER SEDIMENTATION IN DOWNSTREAM WATERS.
- INSTALL LANDSCAPING AND ESTABLISH VEGETATIVE GROWTH FOR DISTURBED AREAS AND INSTALL BANK RESTORATION MEASURES IN ACCORDANCE WITH SPECIFICATIONS AND LANDSCAPING PLANS.

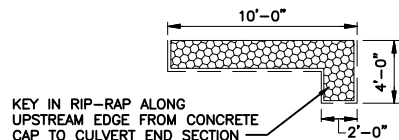
POST-CONSTRUCTION ACTIVITIES

- CONDUCT A POST-CONSTRUCTION INSPECTION WITH OWNER AND ENGINEER.
- REPAIR ITEMS IDENTIFIED IN THE POST-CONSTRUCTION INSPECTION.
- REMOVE PERIMETER SILT FENCE AND OTHER TEMPORARY SEDIMENT CONTROLS.



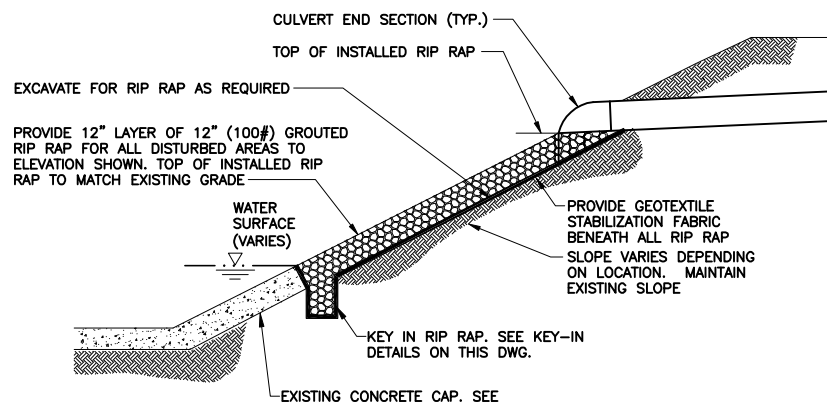
KEY-IN SECTION (AT CONCRETE CAP)

NOT TO SCALE



RIP-RAP KEY-IN DETAIL (LONGITUDINAL)

NOT TO SCALE

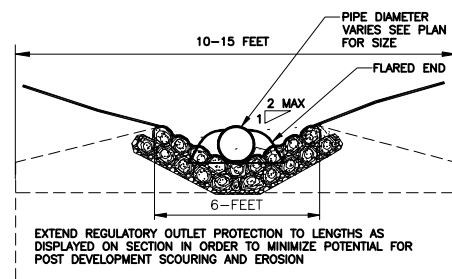


NOTE:

- REMOVE EXISTING CONCRETE CAP AS NECESSARY TO INSTALL RIP-RAP. REPLACE WITH NEW CONCRETE TO MATCH EXISTING SLOPES.

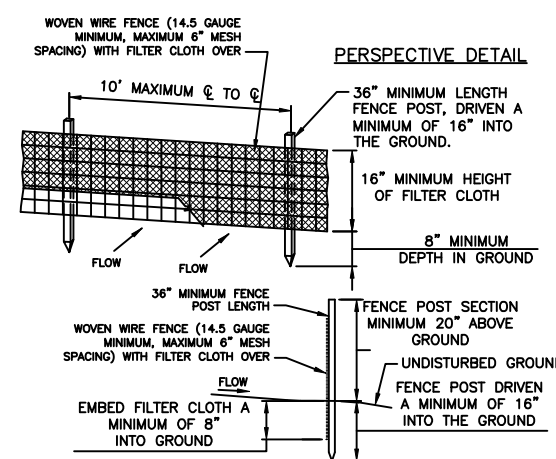
TYPICAL RIP-RAP OUTLET PROTECTION DETAIL

NOT TO SCALE



RIP RAP OUTLET PROTECTION

NOT TO SCALE



CROSS SECTION

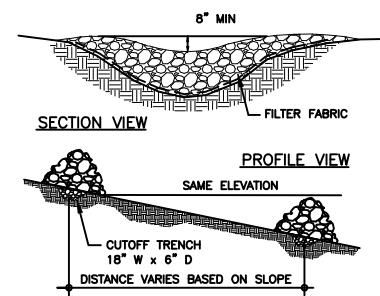
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POST: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 14.5 GAUGE 6" MAXIMUM MESH OPENING FILTER
- CLOTH: FILTER X, MIRAFIT 100X, STABILITAK T140N OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE

NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL

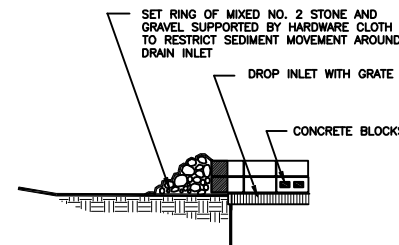


NOTE: FLOW BREAK MOUND SHALL BE BUILT WITH 2"-4"-8" SIZE MIXED CRUSHED STONE

STONE FLOW BREAK

NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL

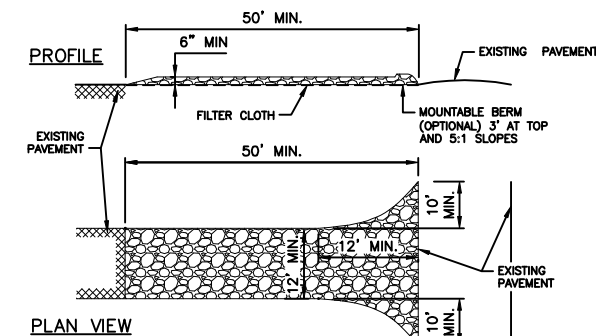


NOTES:
1. HARDWARE CLOTH OR 1/4" INCH WIRE MESH SHALL BE PLACED OVER GRATE AND BLOCKS TO SUPPORT STONE.

STONE AND BLOCK INLET PROTECTION

NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



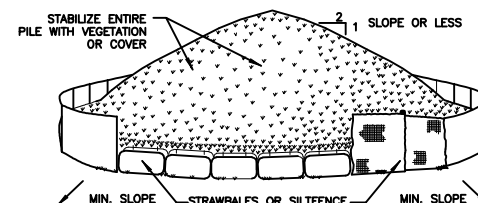
CONSTRUCTION SPECIFICATIONS:

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH ALSO DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



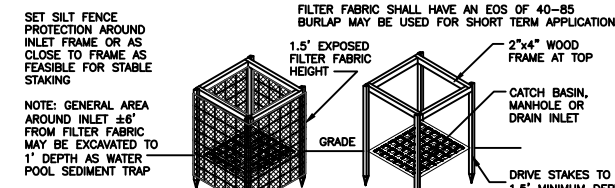
INSTALLATION NOTES:

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

SOIL STOCKPILE DETAIL

NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



NOTE: GENERAL AREA AROUND INLET ±6" FROM FILTER FABRIC MAY BE EXCAVATED TO 1' DEPTH AS WATER POOL SEDIMENT TRAP

BACKFILL TO GRADE AROUND FABRIC AT BASIN

BURY FABRIC 1" MINIMUM

2"x4" STAKES 3' LONG, 4 REQUIRED

FILTER FABRIC INLET PROTECTION DETAIL

NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL

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CLINTON CSO STORAGE FACILITY PROJECT

EROSION CONTROL DETAILS AND NOTES

GENERAL



File Number
00663

Date
04/11

G-121

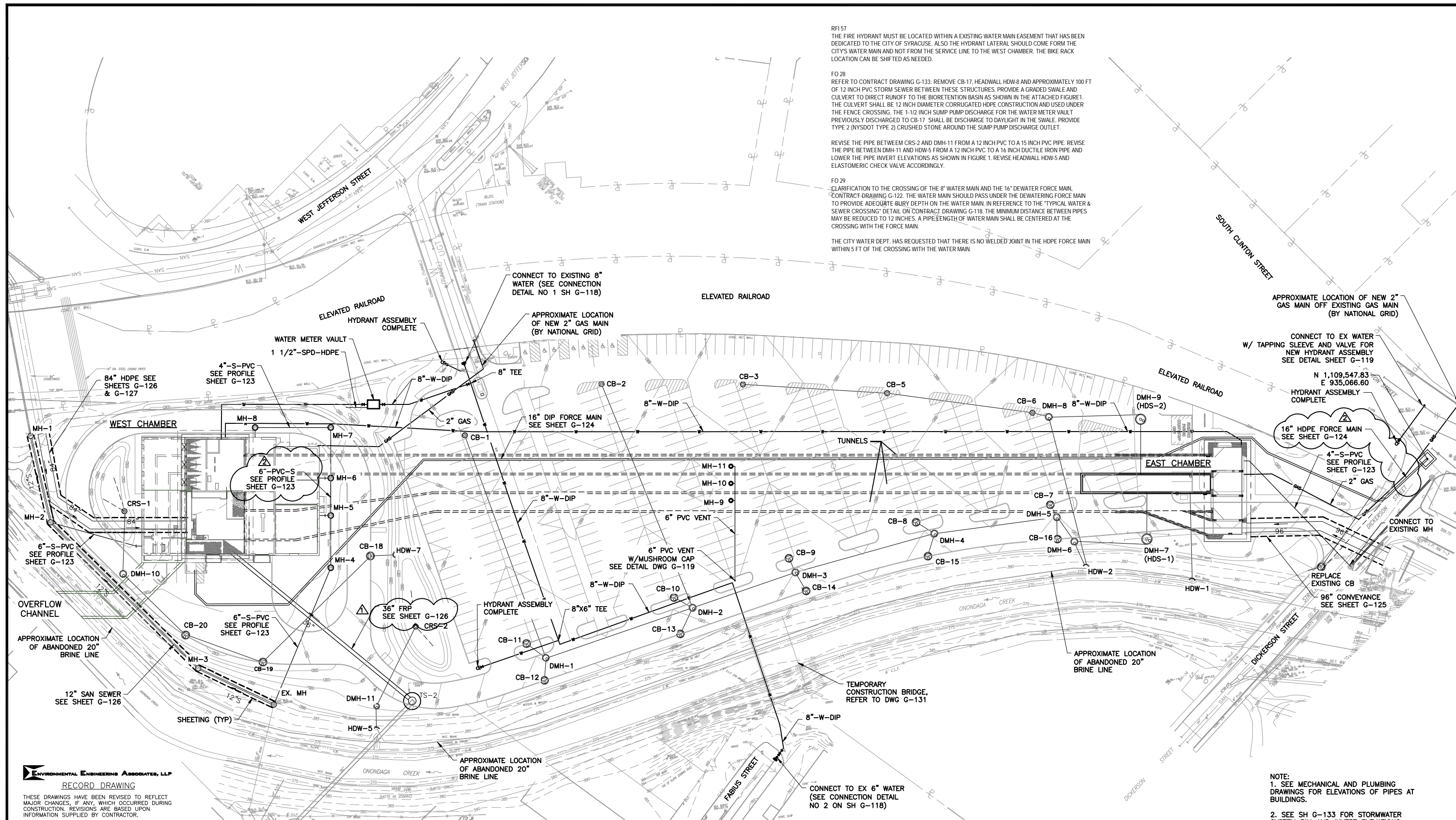
RF157
THE FIRE HYDRANT MUST BE LOCATED WITHIN A EXISTING WATER MAIN EASEMENT THAT HAS BEEN DEDICATED TO THE CITY OF SYRACUSE. ALSO THE HYDRANT LATERAL SHOULD COME FROM THE CITY'S WATER MAIN AND NOT FROM THE SERVICE LINE TO THE WEST CHAMBER. THE BIKE RACK LOCATION CAN BE SHIFTED AS NEEDED.

FO 28
REFER TO CONTRACT DRAWING G-133: REMOVE CB-17, HEADWALL HDW-8 AND APPROXIMATELY 100 FT OF 12 INCH PVC STORM SEWER BETWEEN THESE STRUCTURES. PROVIDE A GRADED SWALE AND CULVERT TO DIRECT RUNOFF TO THE BIORETENTION BASIN AS SHOWN IN THE ATTACHED FIGURE1. THE CULVERT SHALL BE 12 INCH DIAMETER CORRUGATED HDPE CONSTRUCTION AND USED UNDER THE FENCE CROSSING. THE 1-1/2 INCH SUMP PUMP DISCHARGE FOR THE WATER METER VAULT PREVIOUSLY DISCHARGED TO CB-17 SHALL BE DISCHARGE TO DAYLIGHT IN THE SWALE. PROVIDE TYPE 2 (NYS DOT TYPE 2) CRUSHED STONE AROUND THE SUMP PUMP DISCHARGE OUTLET.

REVISE THE PIPE BETWEEN CRS-2 AND DMH-11 FROM A 12 INCH PVC TO A 15 INCH PVC PIPE. REVISE THE PIPE BETWEEN DMH-11 AND HDW-5 FROM A 12 INCH PVC TO A 16 INCH DUCTILE IRON PIPE AND LOWER THE PIPE INVERT ELEVATIONS AS SHOWN IN FIGURE 1. REVISE HEADWALL HDW-5 AND ELASTOMERIC CHECK VALVE ACCORDINGLY.

FO 29
CLARIFICATION TO THE CROSSING OF THE 8" WATER MAIN AND THE 16" DEWATER FORCE MAIN. CONTRACT DRAWING G-122. THE WATER MAIN SHOULD PASS UNDER THE DEWATERING FORCE MAIN TO PROVIDE ADEQUATE BURY DEPTH ON THE WATER MAIN. IN REFERENCE TO THE 'TYPICAL WATER & SEWER CROSSING' DETAIL ON CONTRACT DRAWING G-118. THE MINIMUM DISTANCE BETWEEN PIPES MAY BE REDUCED TO 12 INCHES. A PIPE LENGTH OF WATER MAIN SHALL BE CENTERED AT THE CROSSING WITH THE FORCE MAIN.

THE CITY WATER DEPT. HAS REQUESTED THAT THERE IS NO WELDED JOINT IN THE HDPE FORCE MAIN WITHIN 5 FT OF THE CROSSING WITH THE WATER MAIN.



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 DIR/DWG
 SCALE:
 1"=40'-0"

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 CLINTON CSO STORAGE FACILITY PROJECT

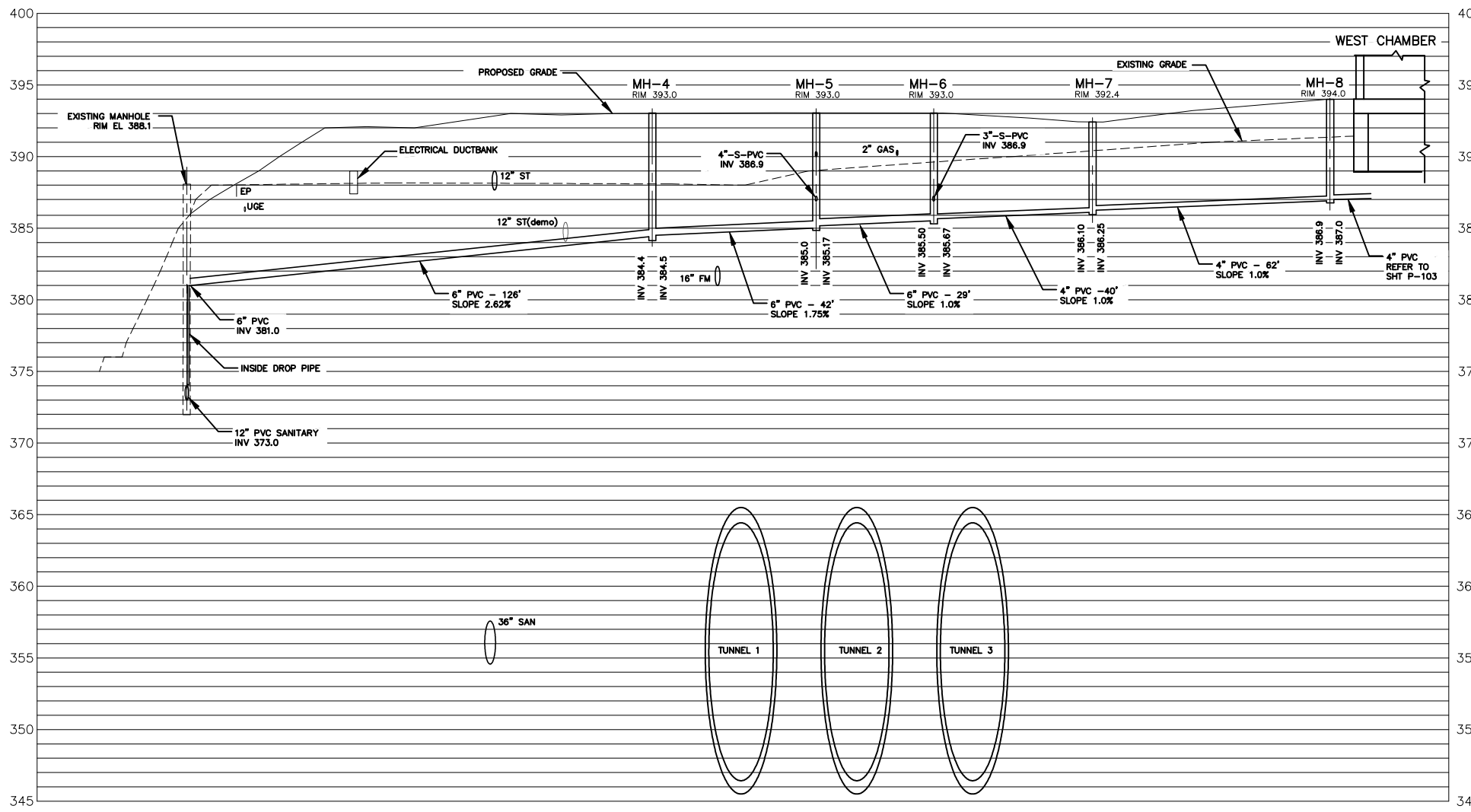
YARD PIPING PLAN

GENERAL

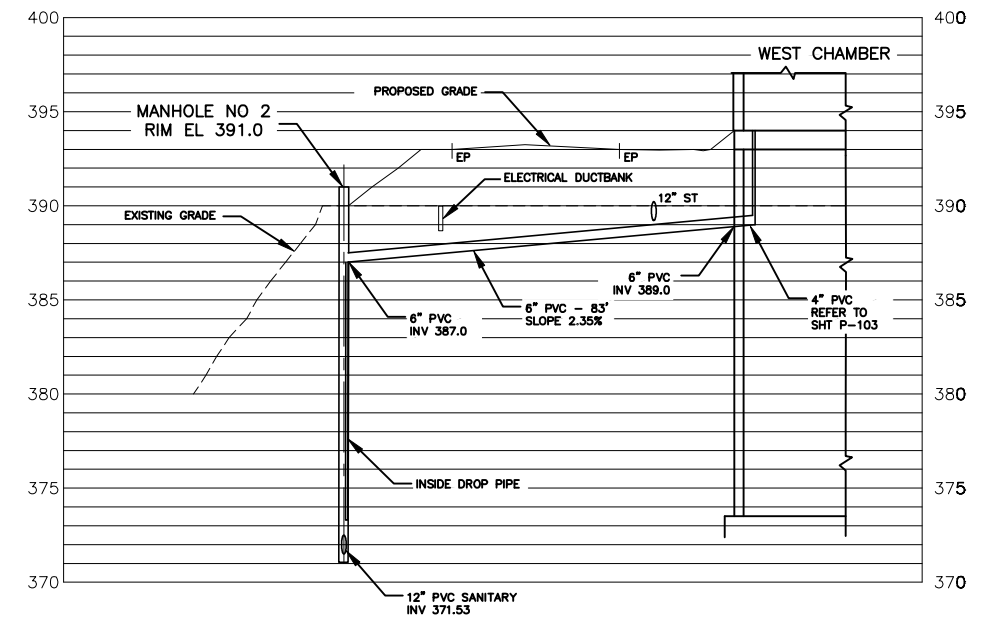
NOTE:
 1. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ELEVATIONS OF PIPES AT BUILDINGS.
 2. SEE SH G-133 FOR STORMWATER SYSTEM RIM AND INVERT ELEVATIONS.
 3. MH'S 9, 10 AND 11 ARE FOR TUNNEL EGRESS

FILE NUMBER: 00663
 DATE: 04/11

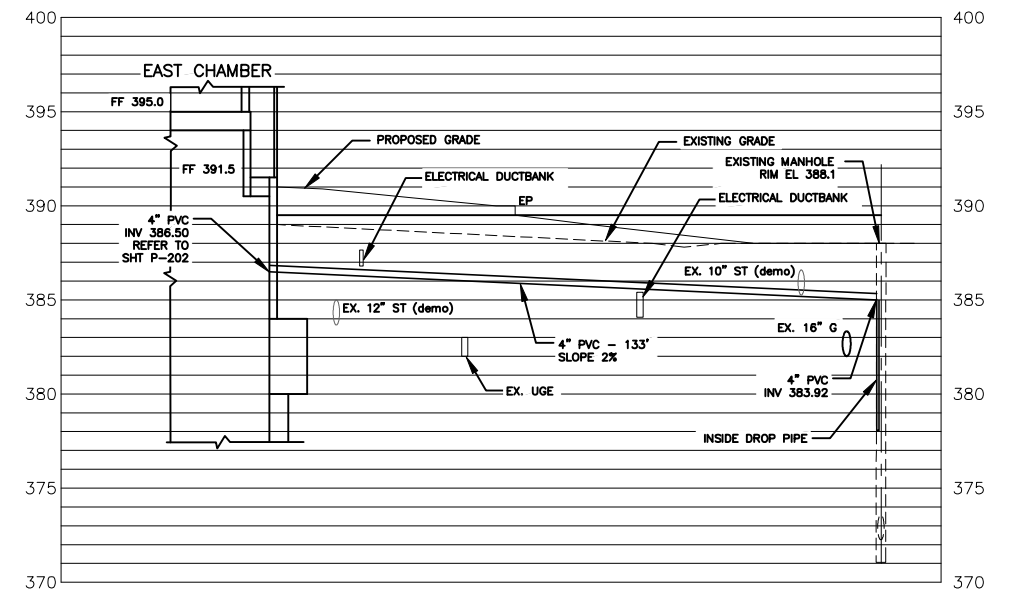
G-122



**SANITARY SEWER PROFILE
(ODOR CONTROL ROOM TO EX SANITARY MANHOLE)**
SCALE: 1' = 20' HOR
1' = 5' VERT



**SANITARY SEWER PROFILE
(BATHROOM TO SANITARY MANHOLE NO 2)**
SCALE: 1' = 20' HOR
1' = 5' VERT



**SANITARY SEWER PROFILE
(EAST CHAMBER TO EXISTING SANITARY MANHOLE 7A)**
SCALE: 1' = 20' HOR
1' = 5' VERT

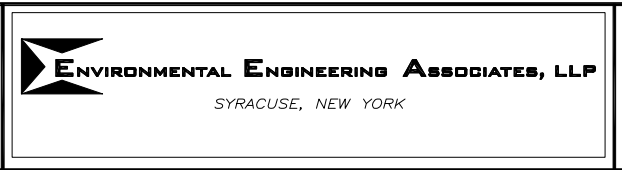
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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DIR/DWG
SCALE: 1"=5'-0"
1"=40'-0"
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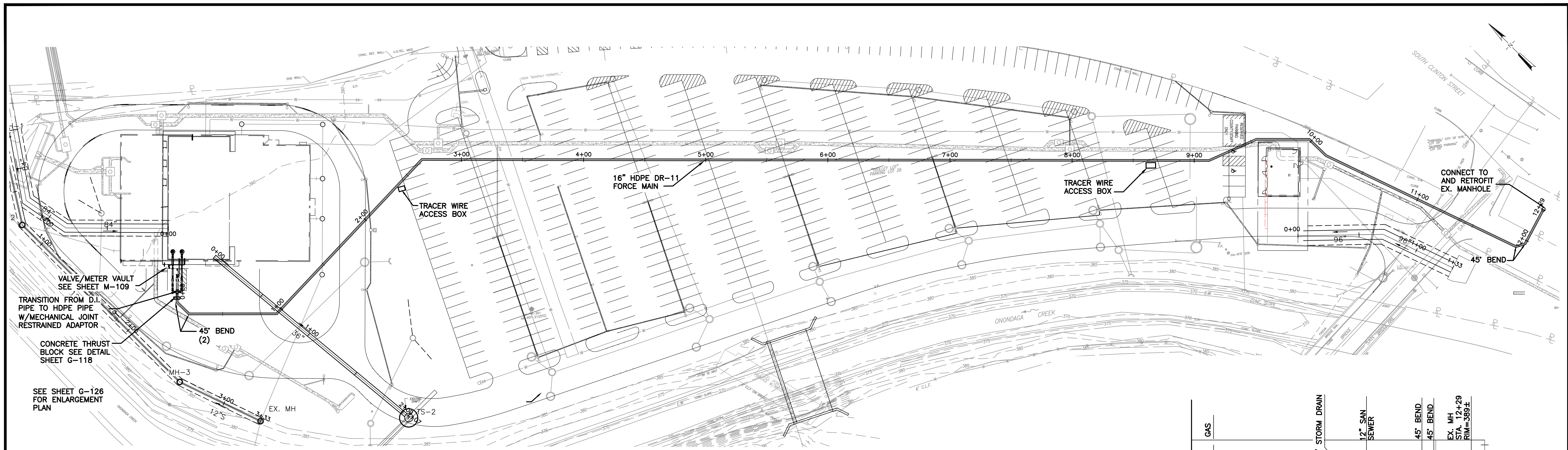
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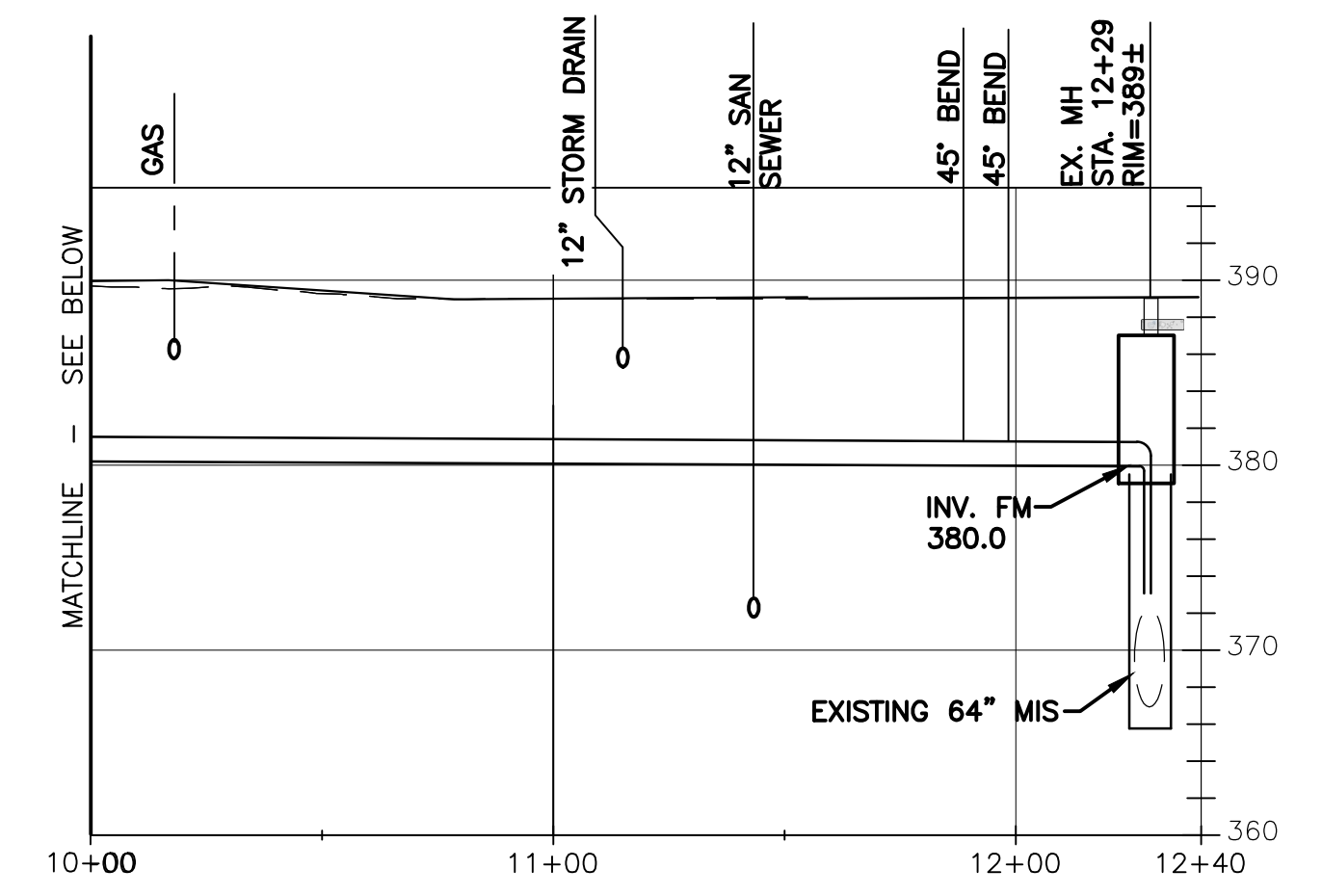


ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT
YARD PIPING PROFILES
GENERAL

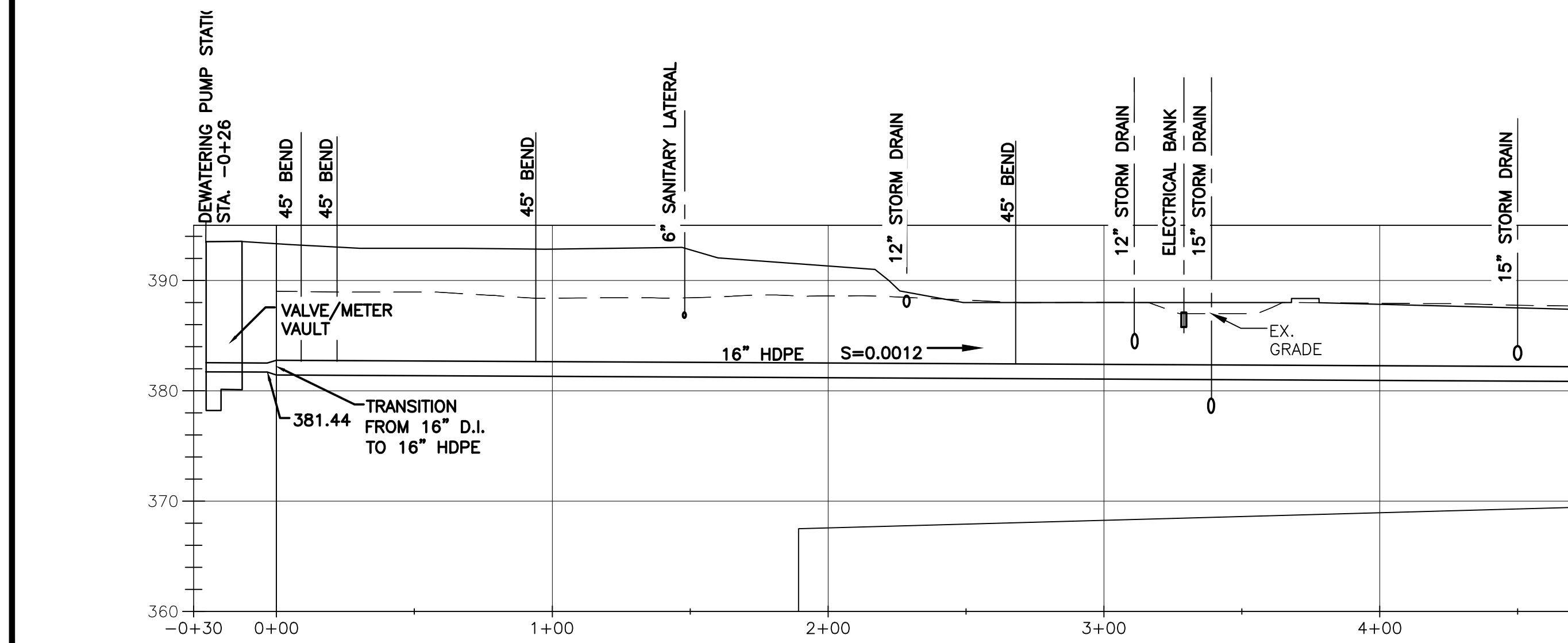
File Number: 00663
Date: 04/11
Professional Engineer Seal: GERALD C. HODGE, No. 57504
Project Number: G-123



PLAN
SCALE: 1"=40'



PROFILE - FORCE MAIN
SCALE: (HORIZ.) 1"=40'
(VERT.) 1"=10'



L: ON=*; OFF=*REF*
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MO/DA/YR CO DFT
DIR/DWG

SCALE: 40' 0 40 80
1"=40'

10' 0 10 20
1"=10'

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No.	Date	Revisions	Init
5	04/15	RECORD DRAWINGS	
4	02/13	REVISED FOR NEW CONNECTION TO MIS	
3	02/12	REVISED FOR CHANGE ORDER NO. 1	RCG
2	04/11	AS BID	RCG
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CLINTON CSO STORAGE FACILITY PROJECT

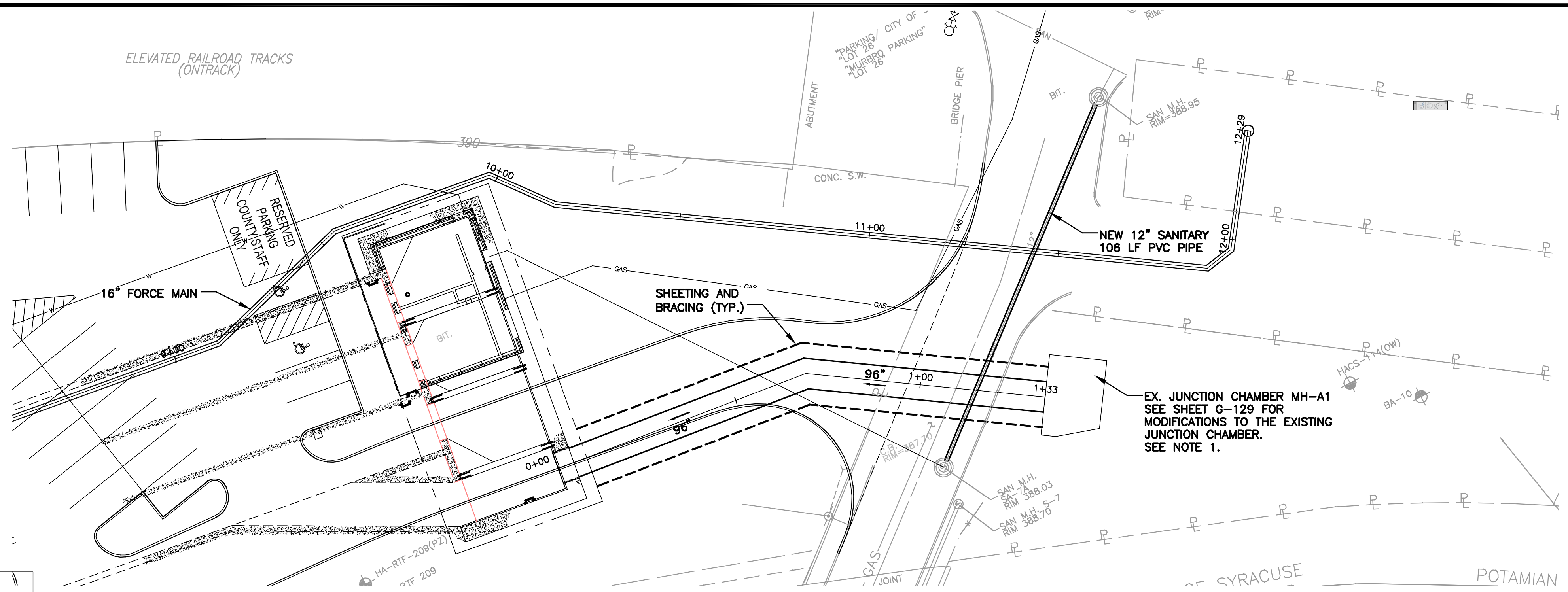
**FORCE MAIN
PLAN & PROFILE**
GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

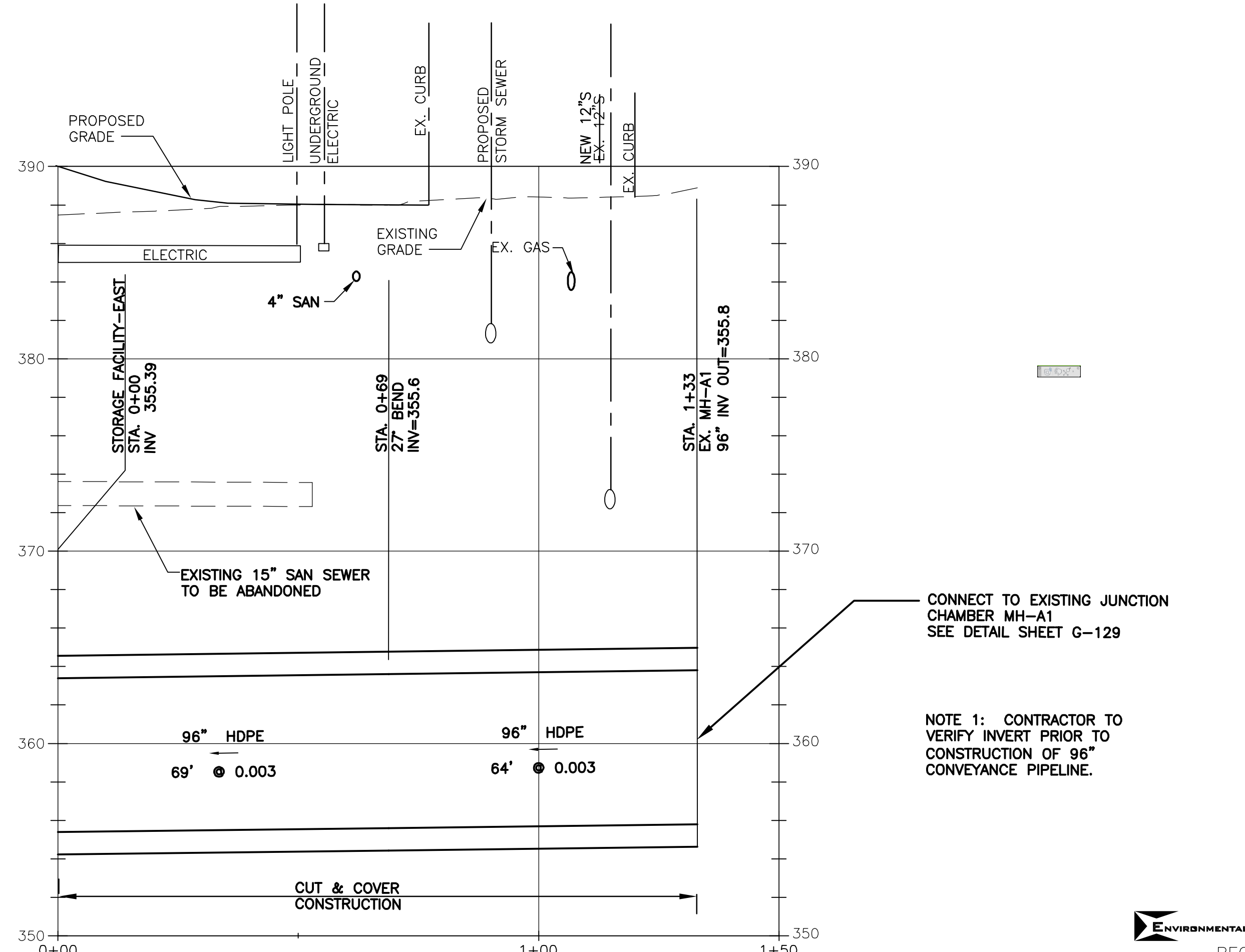
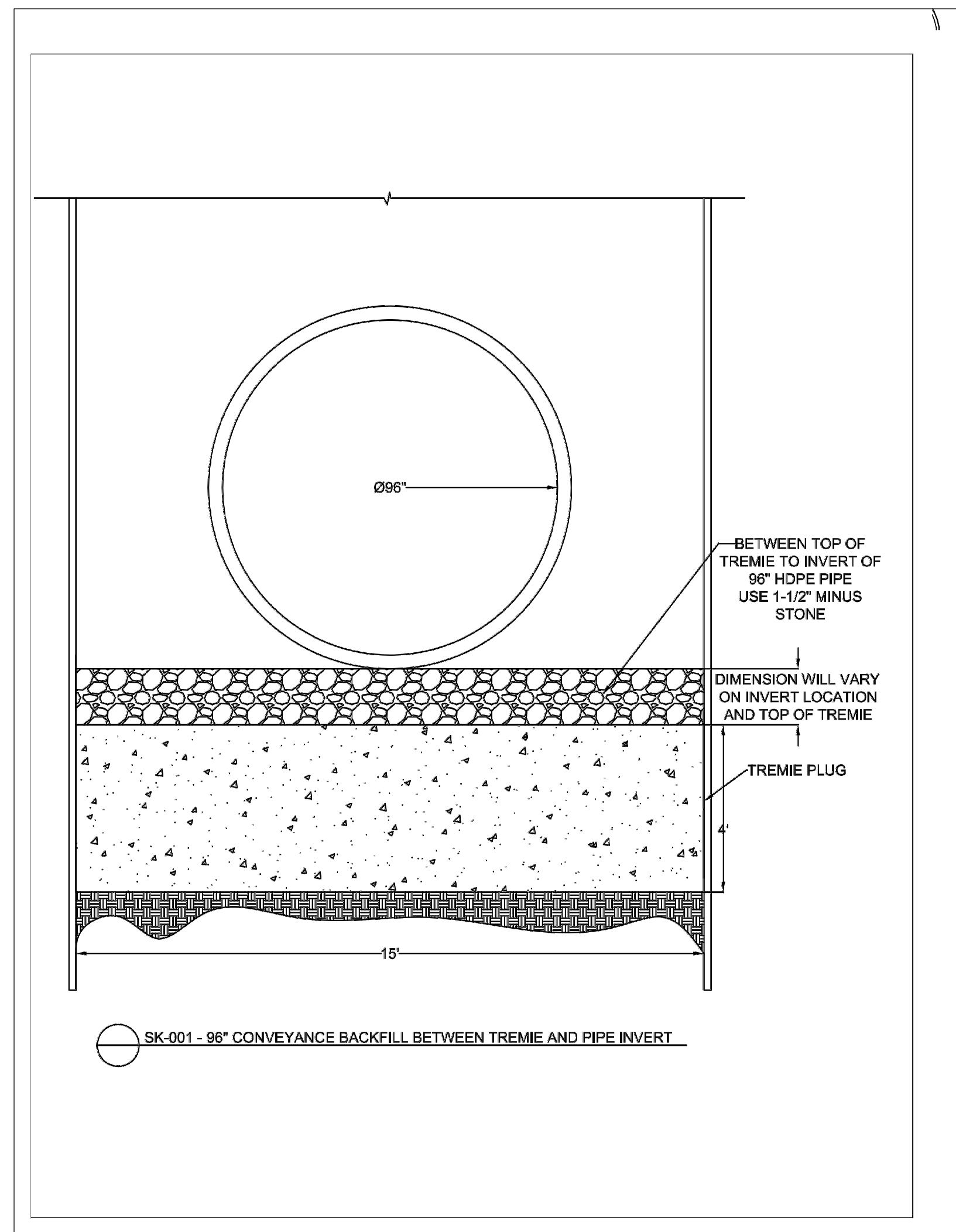
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DATE: 04/01/2015 PER: *Scott Bailey*

File Number 00663	G-124
Date 04/11	



PLAN
SCALE: 1"=20'



WEST ONONDAGA STREET CONVEYANCE SEWER
96" CONVEYANCE PROFILE

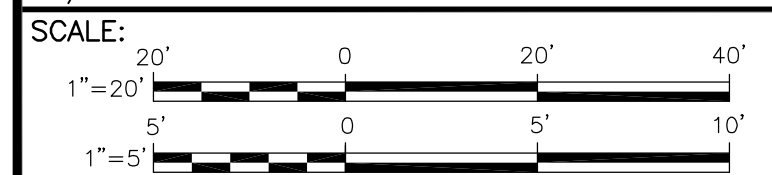
SCALE: (HORIZ.) 1"=20'
(VERT.) 1"=5'

CONNECT TO EXISTING JUNCTION CHAMBER MH-A1
SEE DETAIL SHEET G-129

NOTE 1: CONTRACTOR TO VERIFY INVERT PRIOR TO CONSTRUCTION OF 96" CONVEYANCE PIPELINE.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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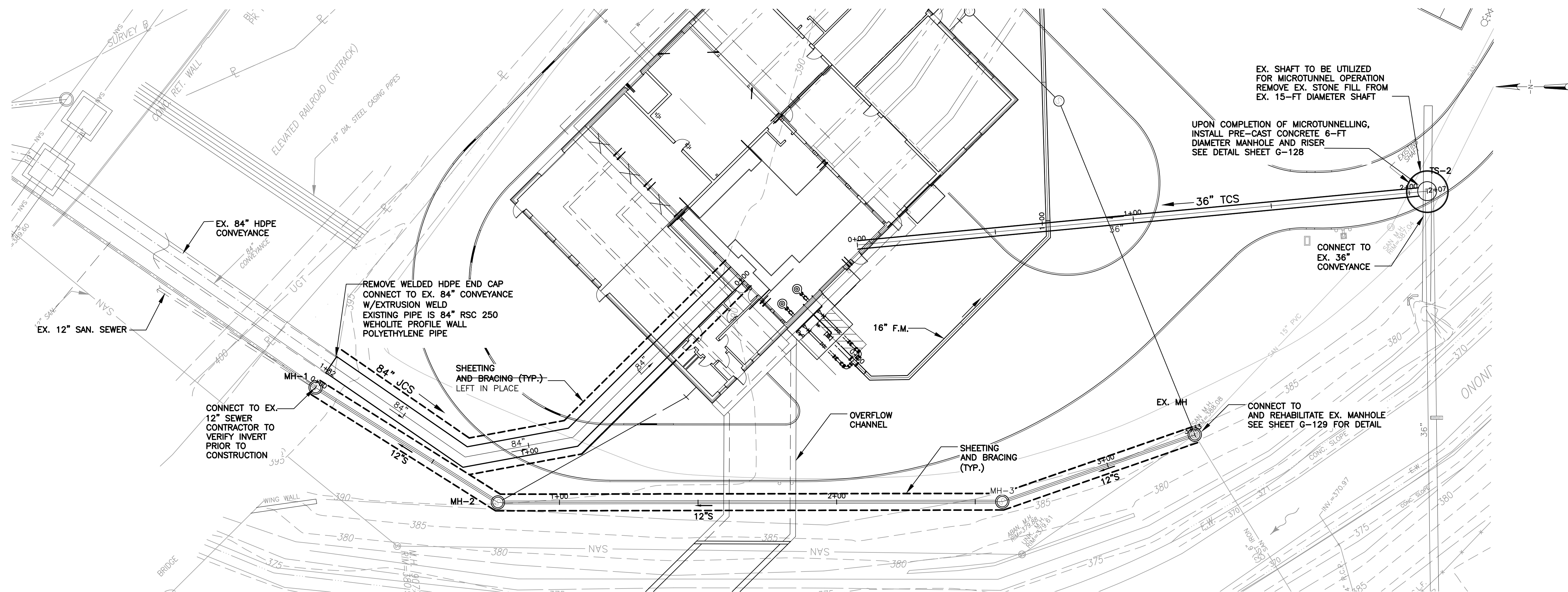
96" CONVEYANCE PLAN AND PROFILE

GENERAL

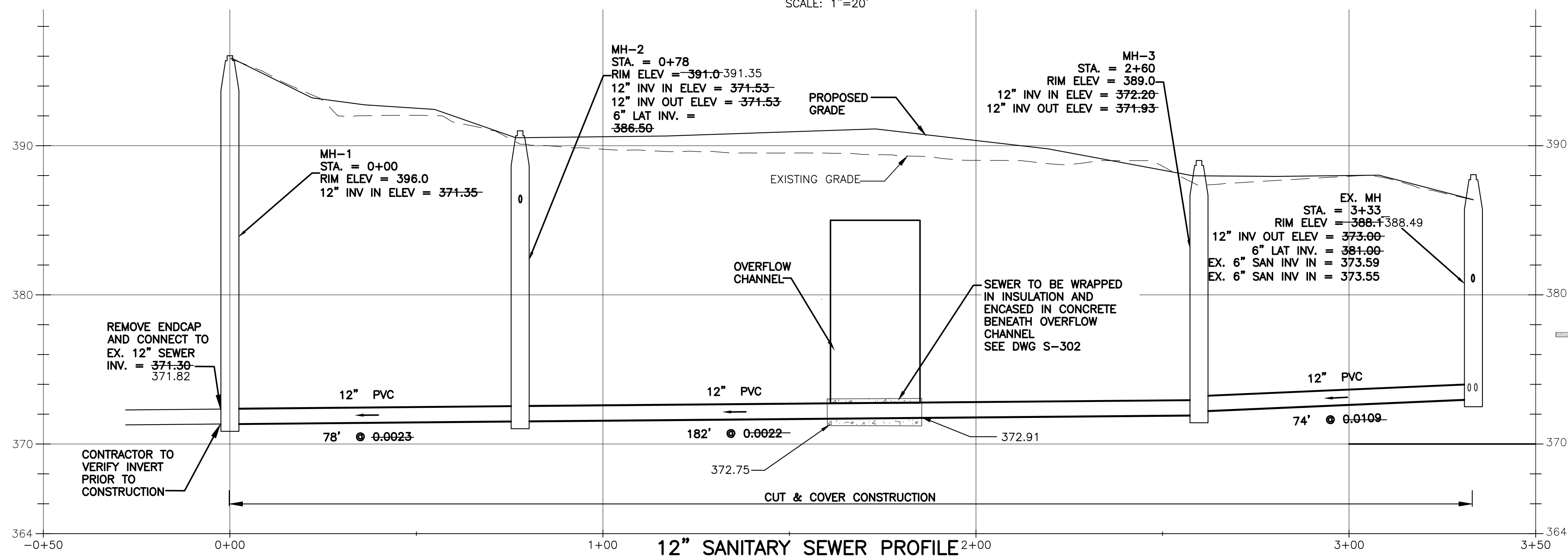
File Number
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Date
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G-125



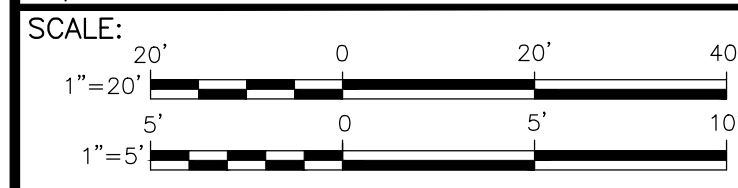
PLAN
SCALE: 1"=20'



12" SANITARY SEWER PROFILE

SCALE: (HORIZ.) 1"=20'
(VERT.) 1"=5'

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**36" & 84" CONVEYANCE PLAN
12" SAN SEWER PLAN & PROFILE**

GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

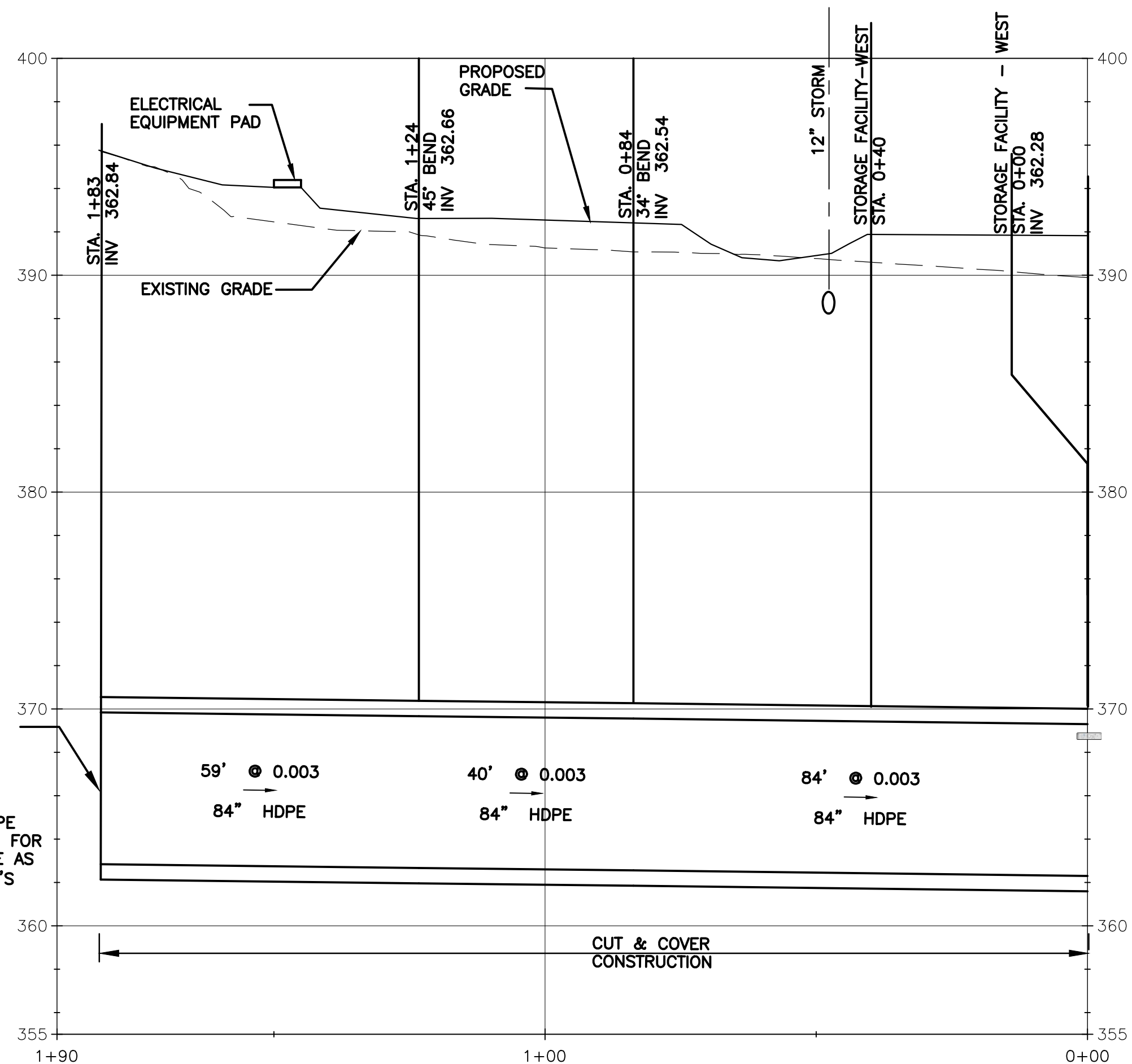
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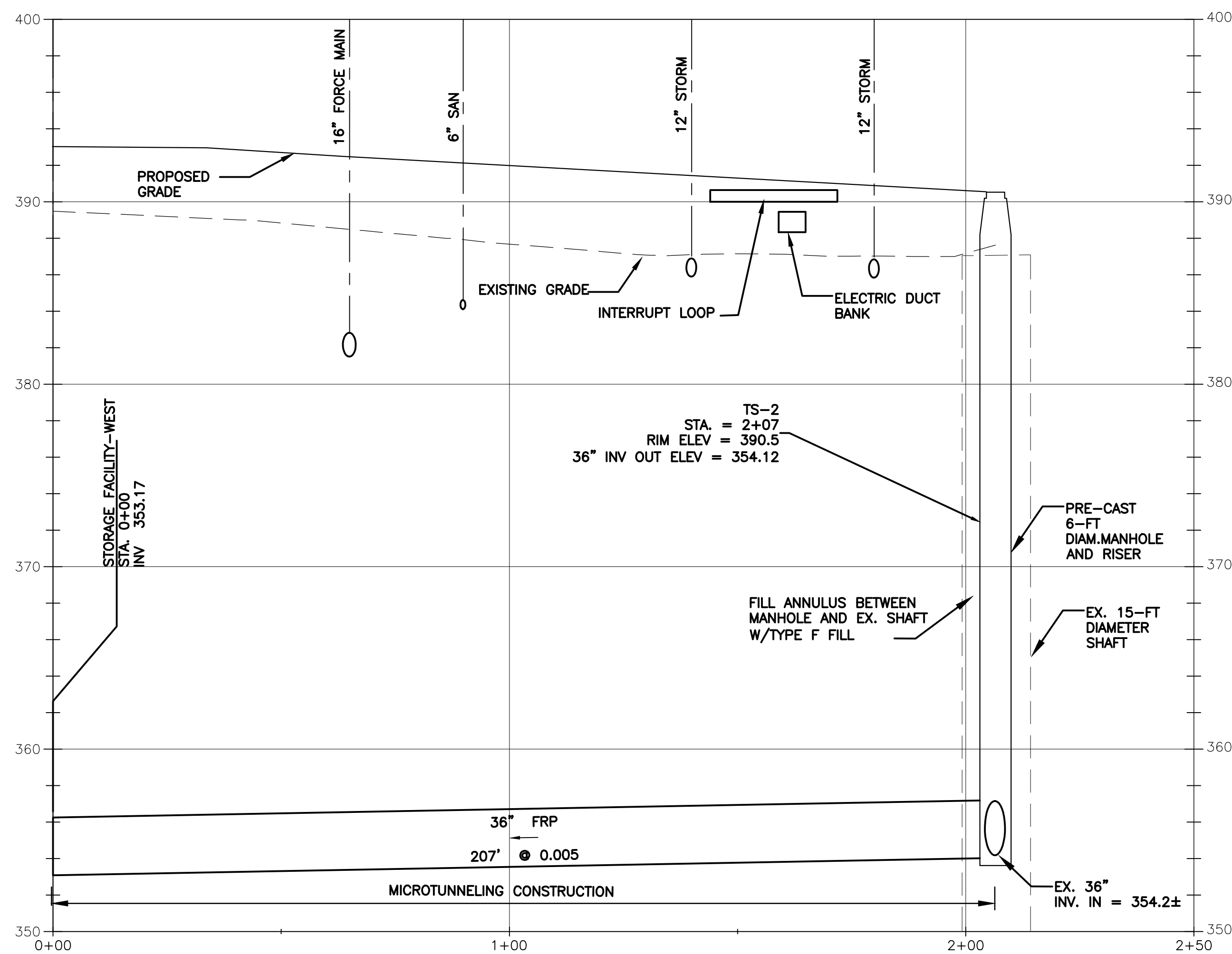
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Date
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G-126



**JEFFERSON STREET CONVEYANCE SEWER
84" CONVEYANCE PROFILE**

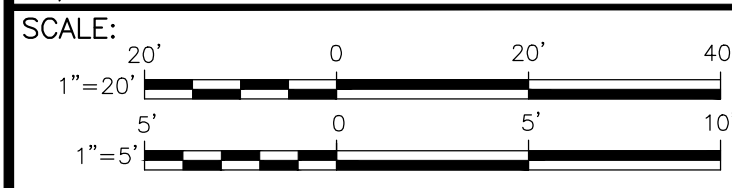
SCALE: (HORIZ.) 1"=20'
(VERT.) 1"=5'



**TULLY STREET CONVEYANCE SEWER
36" CONVEYANCE PROFILE**

SCALE: (HORIZ.) 1"=20'
(VERT.) 1"=5'

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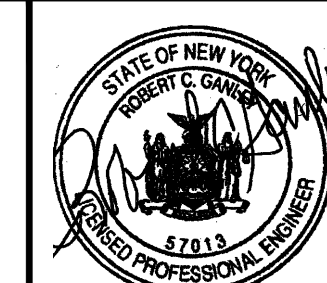
36" & 84" CONVEYANCE PROFILES

GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

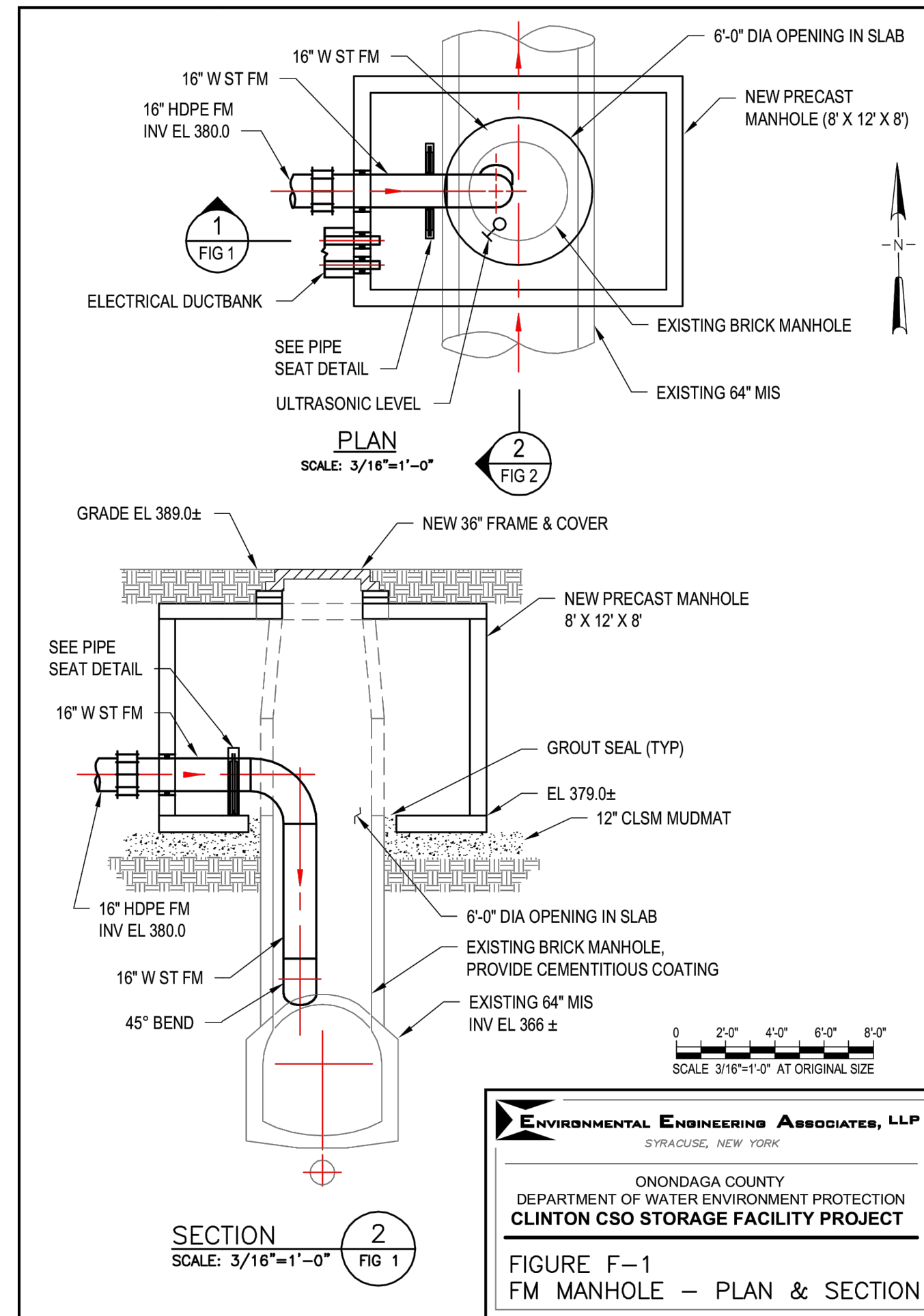
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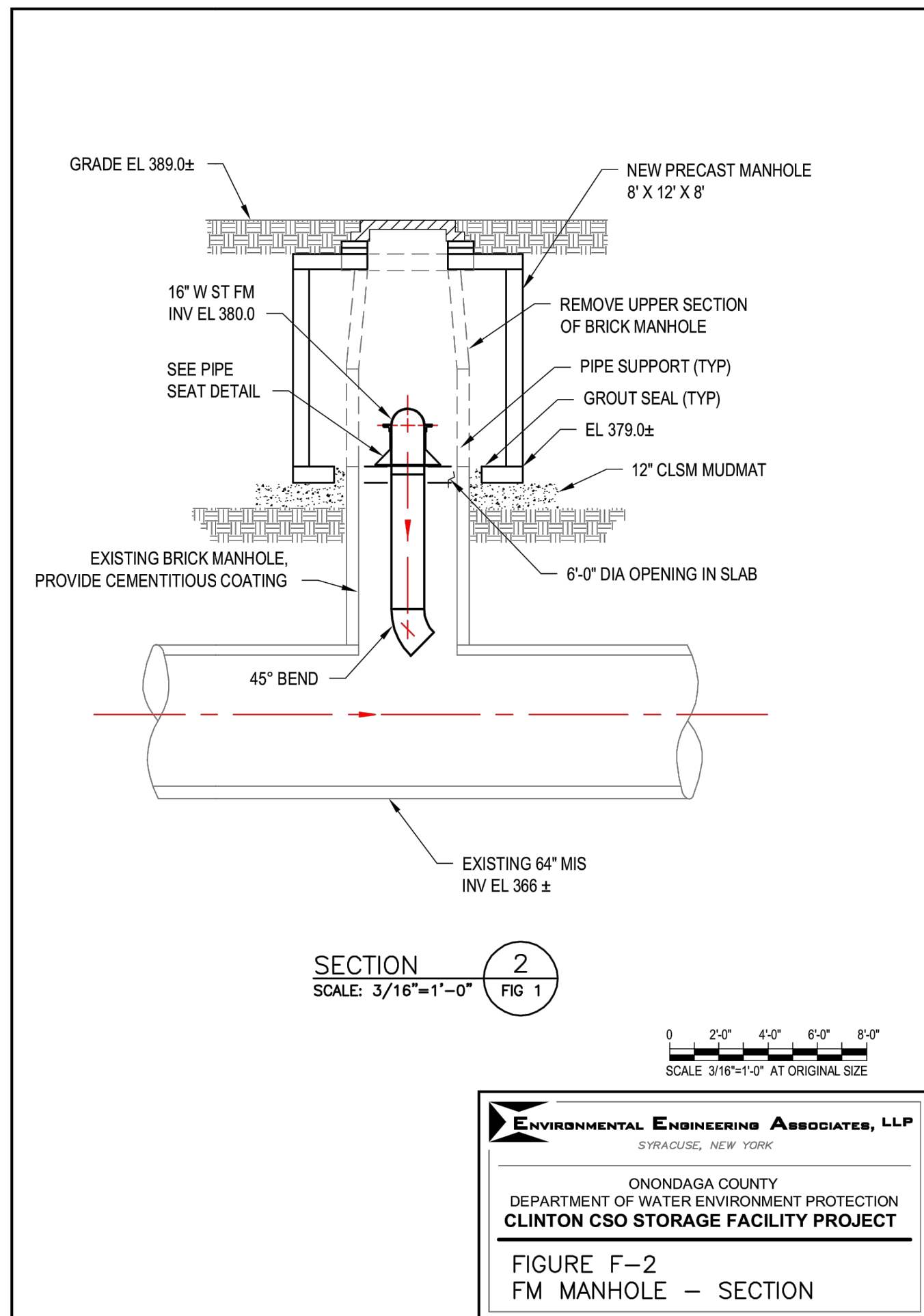
G-127



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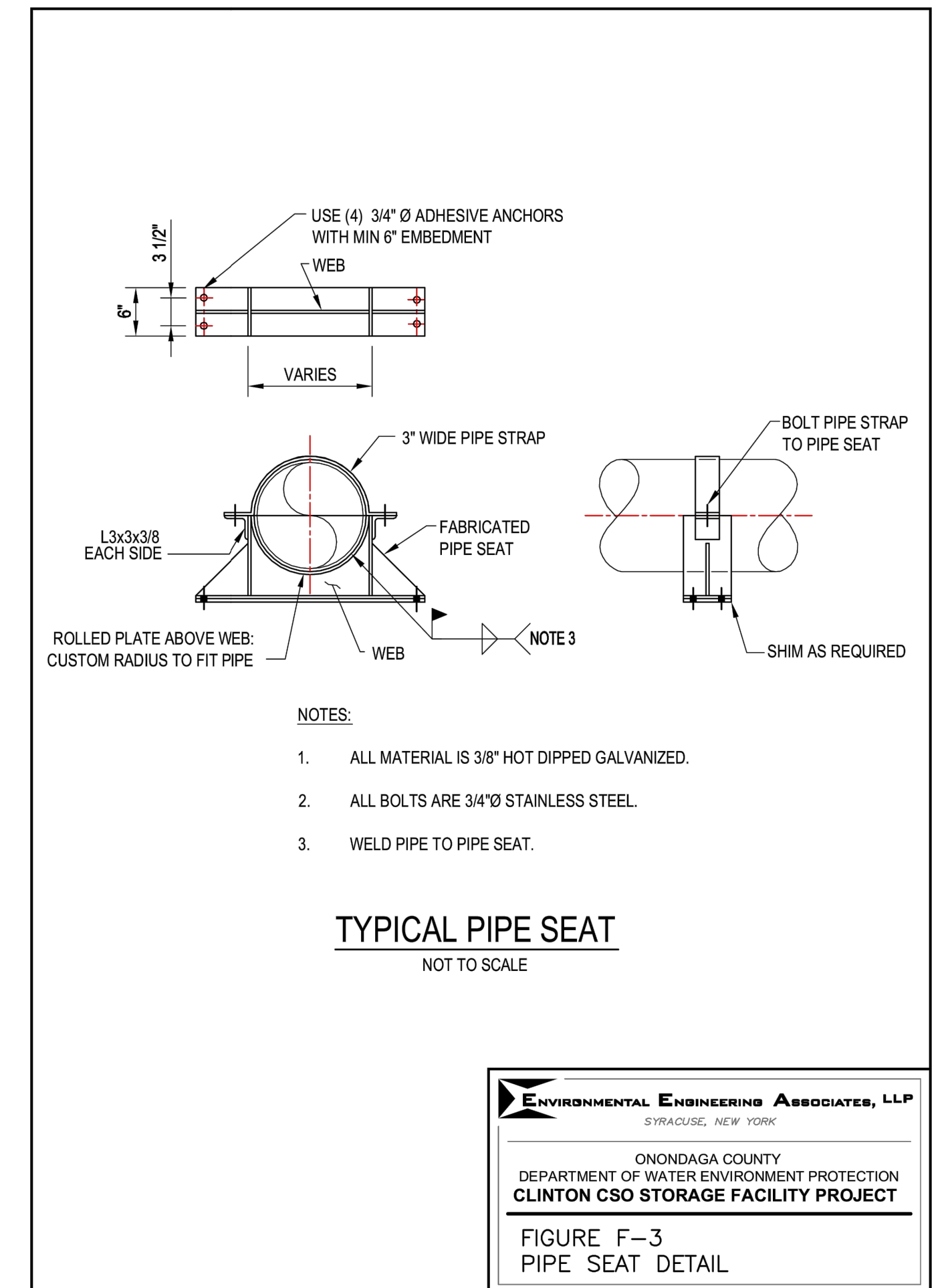
FIGURE F-1
FM MANHOLE - PLAN & SECTION



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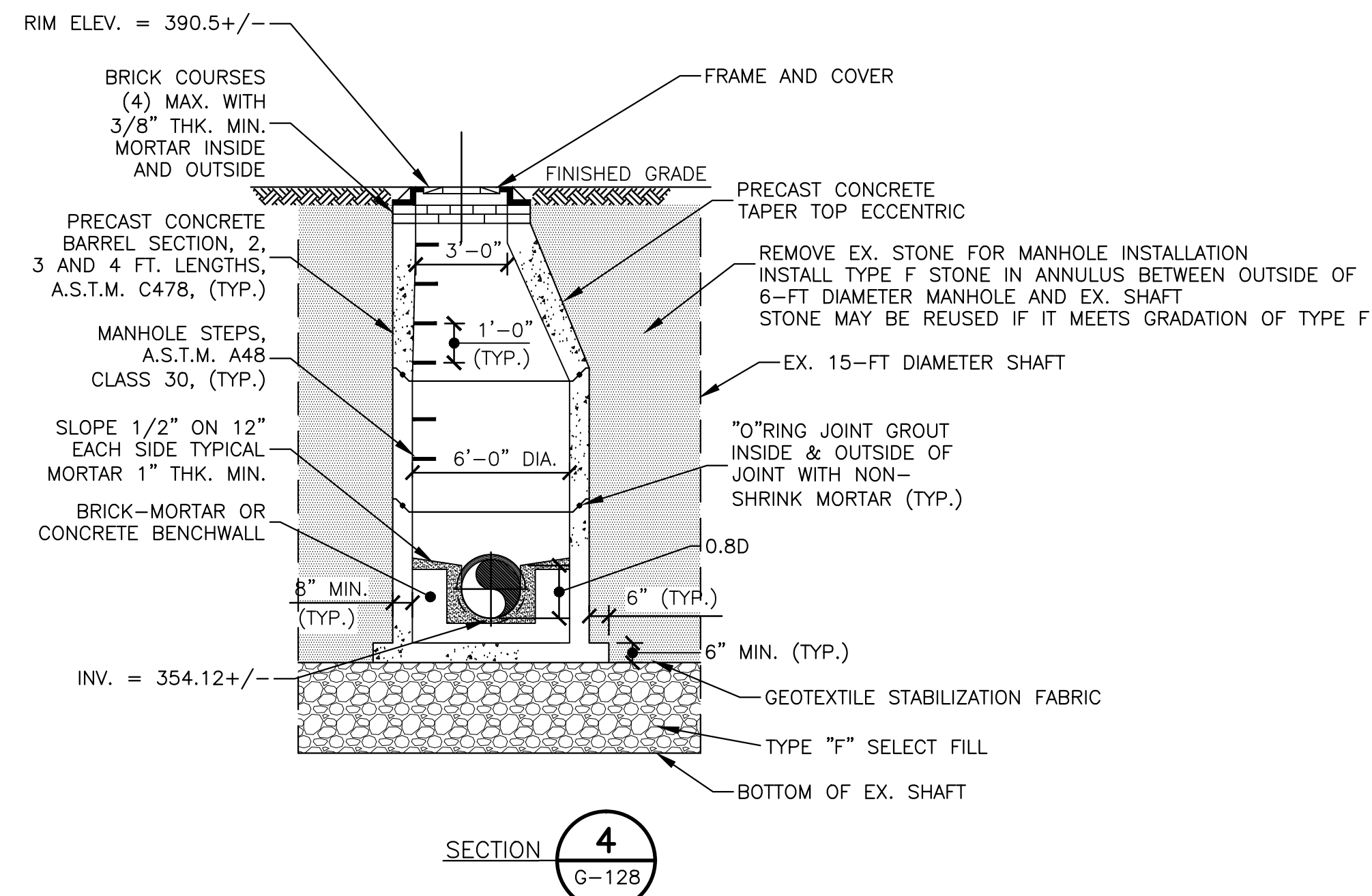
FIGURE F-2
FM MANHOLE - SECTION



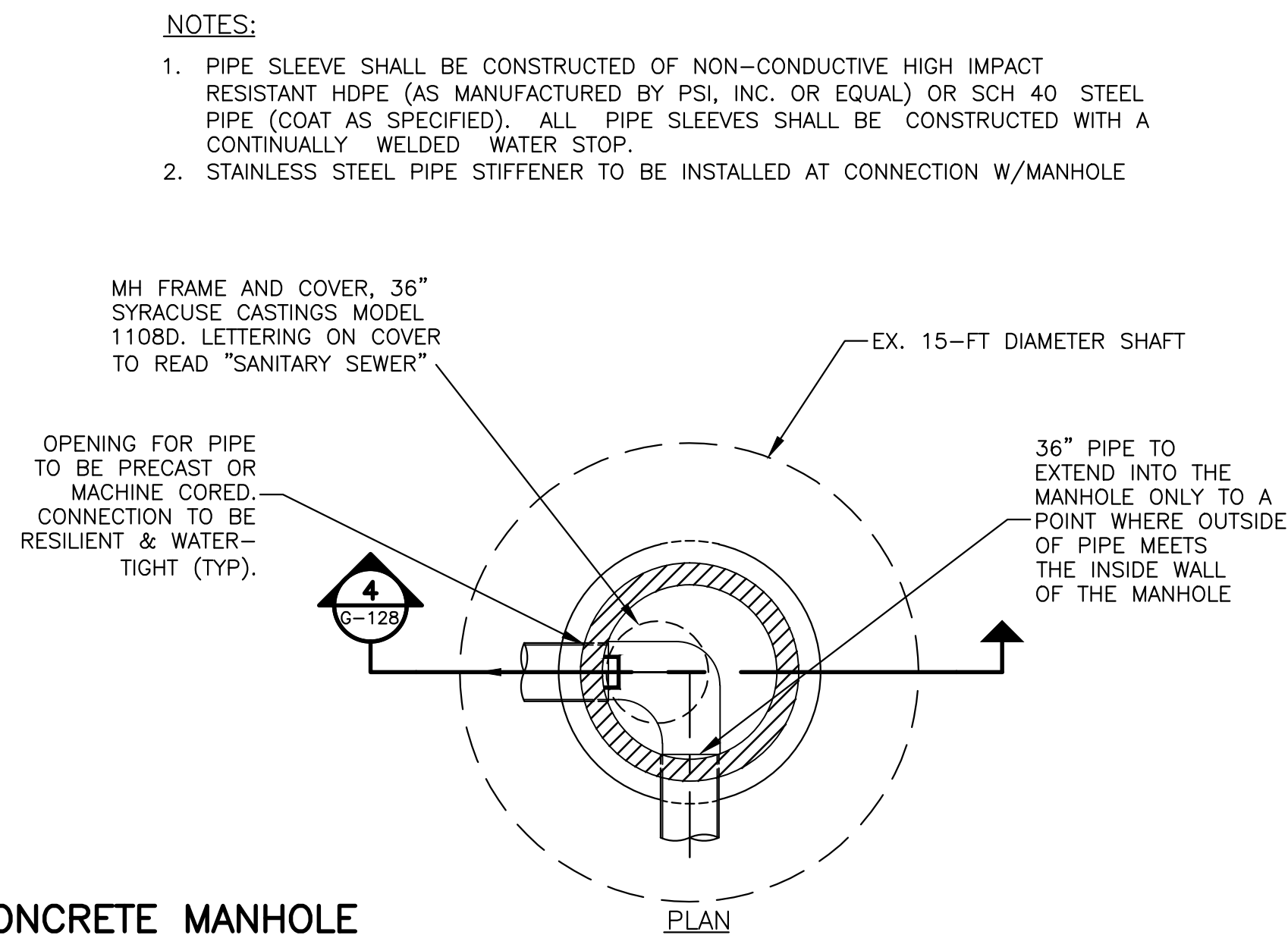
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DEPARTMENT OF WATER ENVIRONMENT PROTECTION
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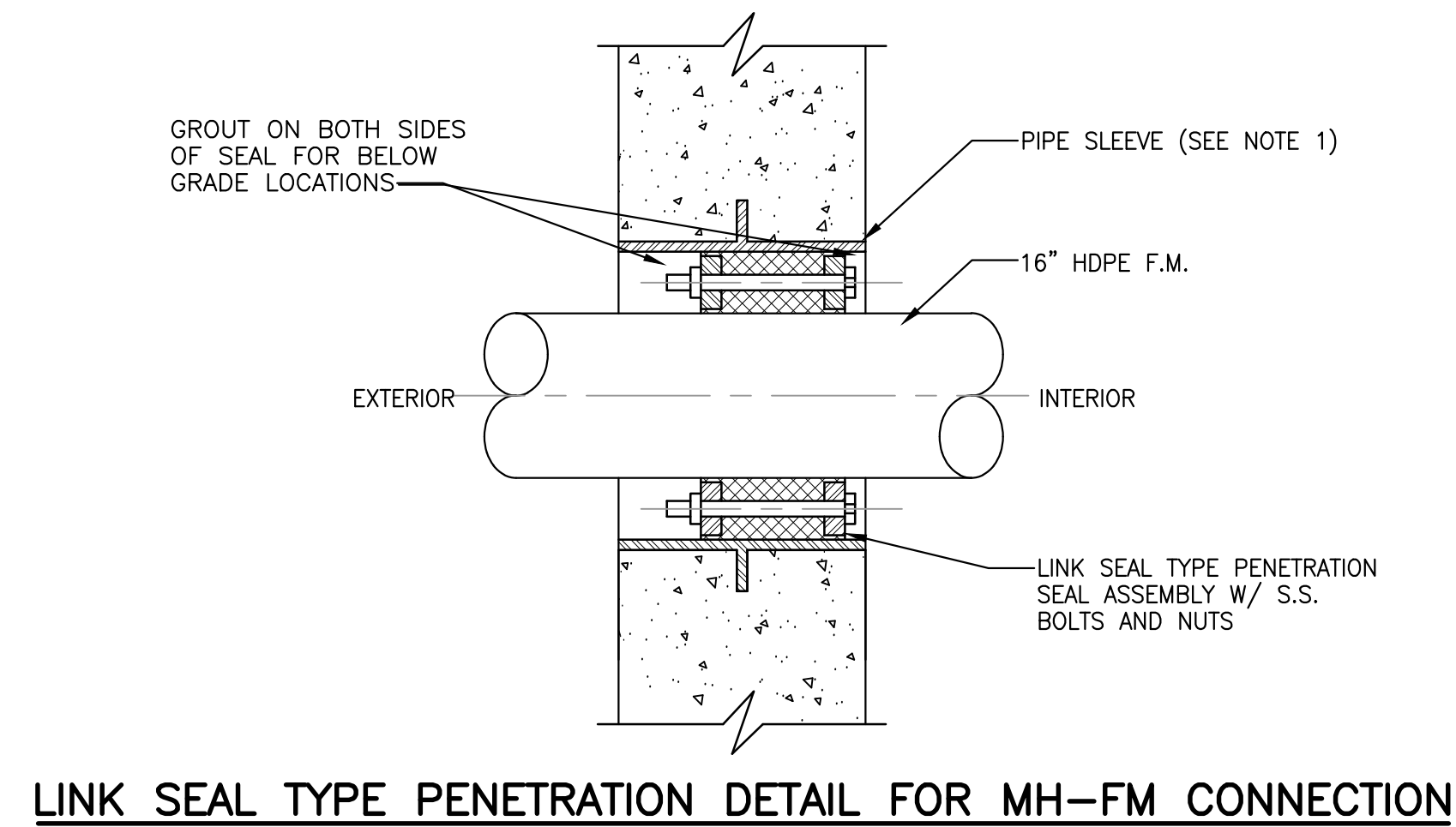
FIGURE F-3
PIPE SEAT DETAIL



SECTION 4
G-128



MH TS-2 PRE-CAST CONCRETE MANHOLE
NTS



LINK SEAL TYPE PENETRATION DETAIL FOR MH-FM CONNECTION

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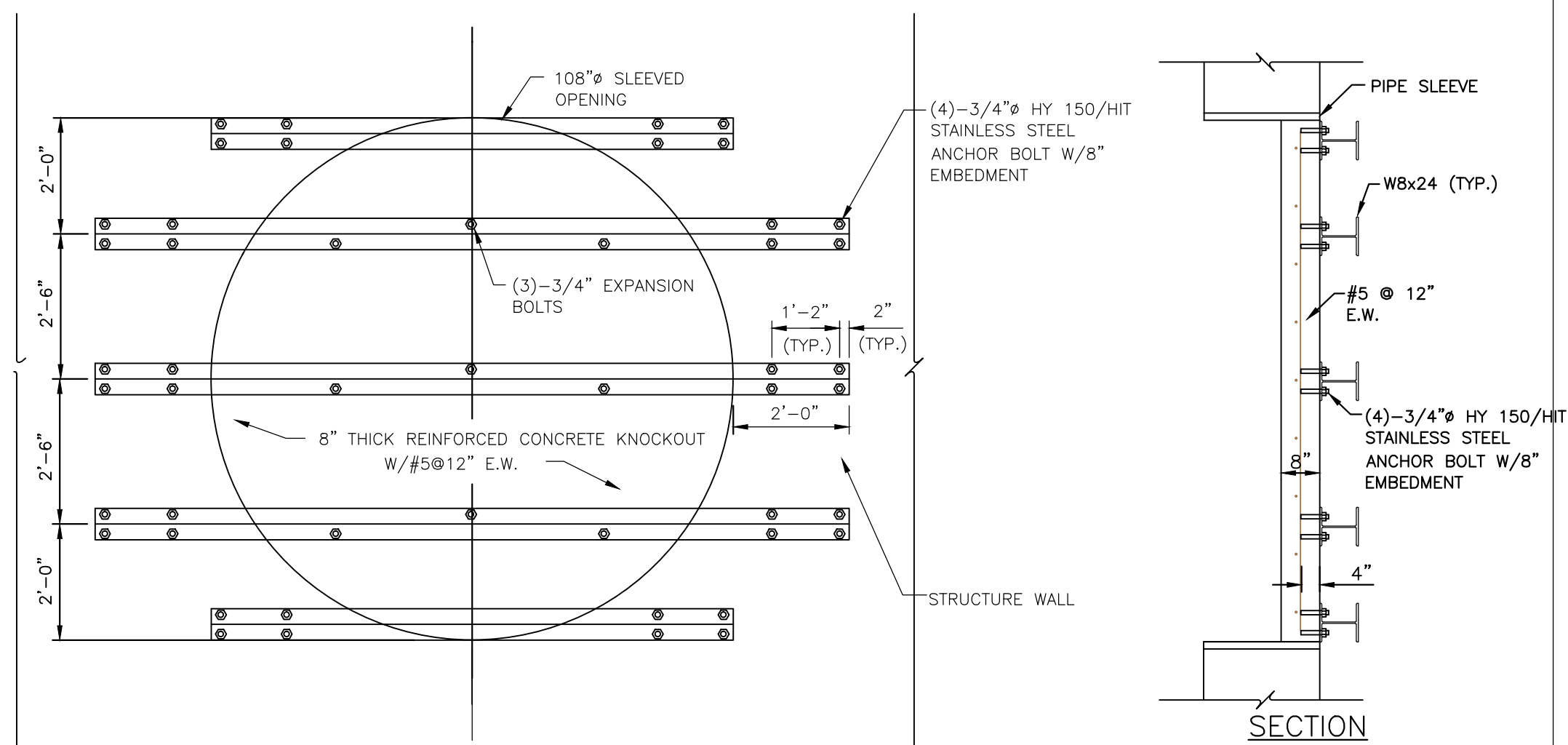
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CLINTON CSO STORAGE FACILITY PROJECT

CONNECTION TO MIS STRUCTURE AND MISCELLANEOUS DETAILS
GENERAL



File Number
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Date
04/11

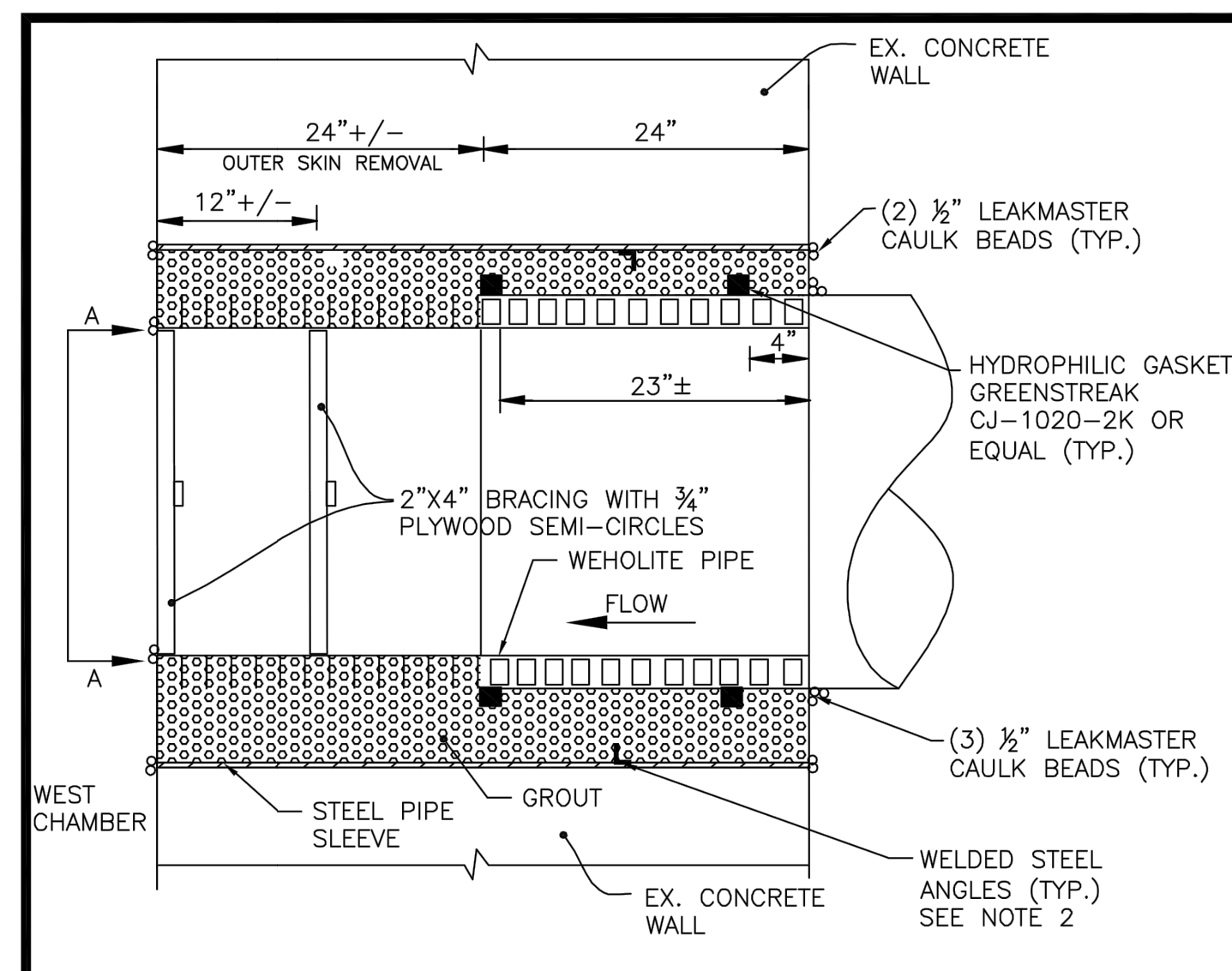
G-128



MH-A1 BULKHEAD REMOVAL DETAIL
NOT TO SCALE

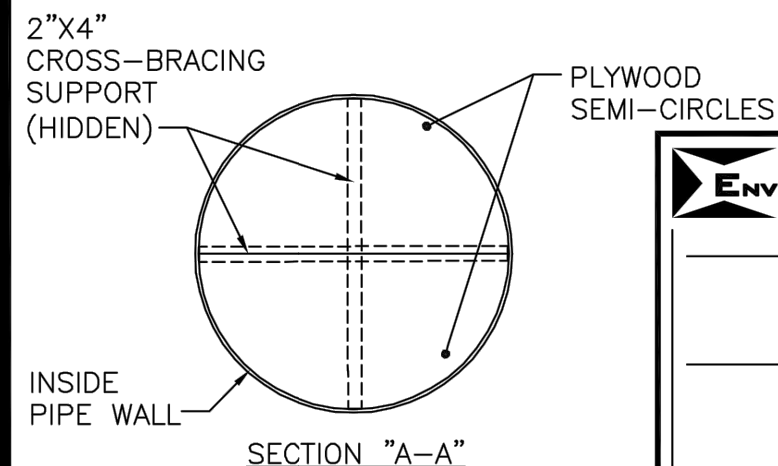
CONTRACTOR SHALL:

1. REMOVE EXISTING 3/4" STAINLESS STEEL ANCHOR BOLTS.
2. REMOVE AND DISPOSE OF EXISTING W8X24'S.
3. REMOVE AND DISPOSE OF EXISTING REINFORCED CONCRETE KNOCK-OUT.
4. PATCH ALL ANCHOR BOLT HOLES IN STRUCTURAL WALL W/NON-SHRINK GROUT.



CONNECTION DETAIL FOR 84" PIPE TO WEST CHAMBER

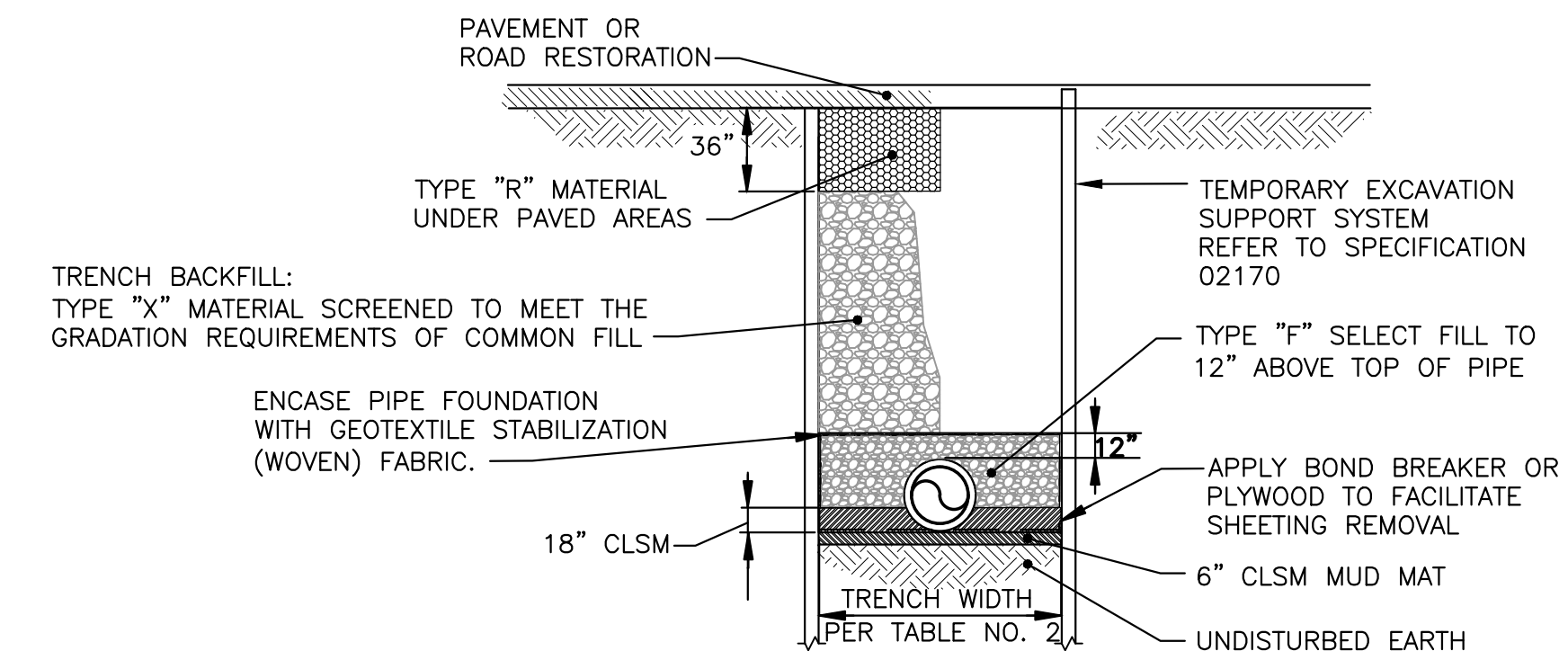
- NOTES:
1. ADDITIONAL CROSS-BRACING SHALL BE PLACED IN THE SINGLE WALLED SECTION OF PIPE PRIOR TO GROUTING AGAINST THE STEEL PIPE SLEEVE.
 2. 1"x1"x2" LONG X 1/4" THICK STEEL ANGLES SPACED EVERY 90° AROUND INSIDE DIAMETER OF STEEL SLEEVE.
 3. PIPE SHALL BE ALLOWED TO RELAX TO AN AMBIENT TEMPERATURE OR 75° F OR LESS PRIOR TO BEING GROUTED INTO STEEL SLEEVE.



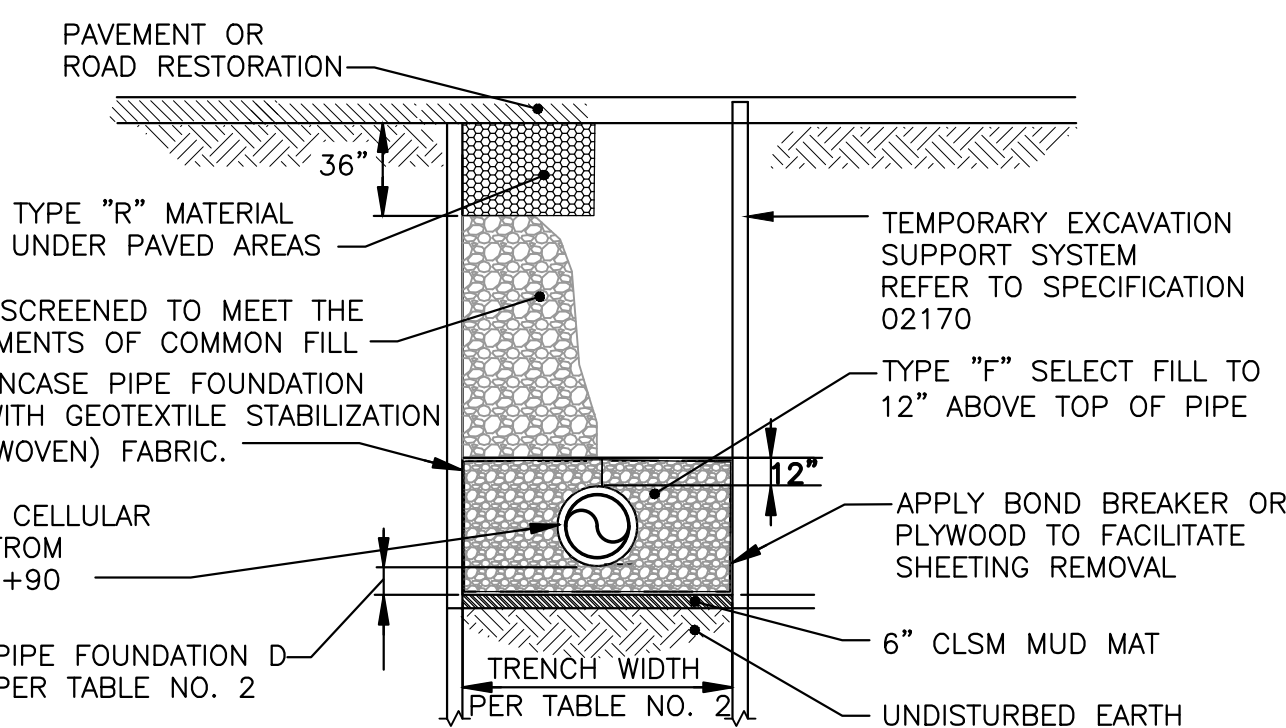
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ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY

84" CONNECTION DETAIL | FIGURE 1
16 JULY 2012



PIPE FOUNDATION/TRENCH FOR 84" AND 96" CONVEYANCE PIPES

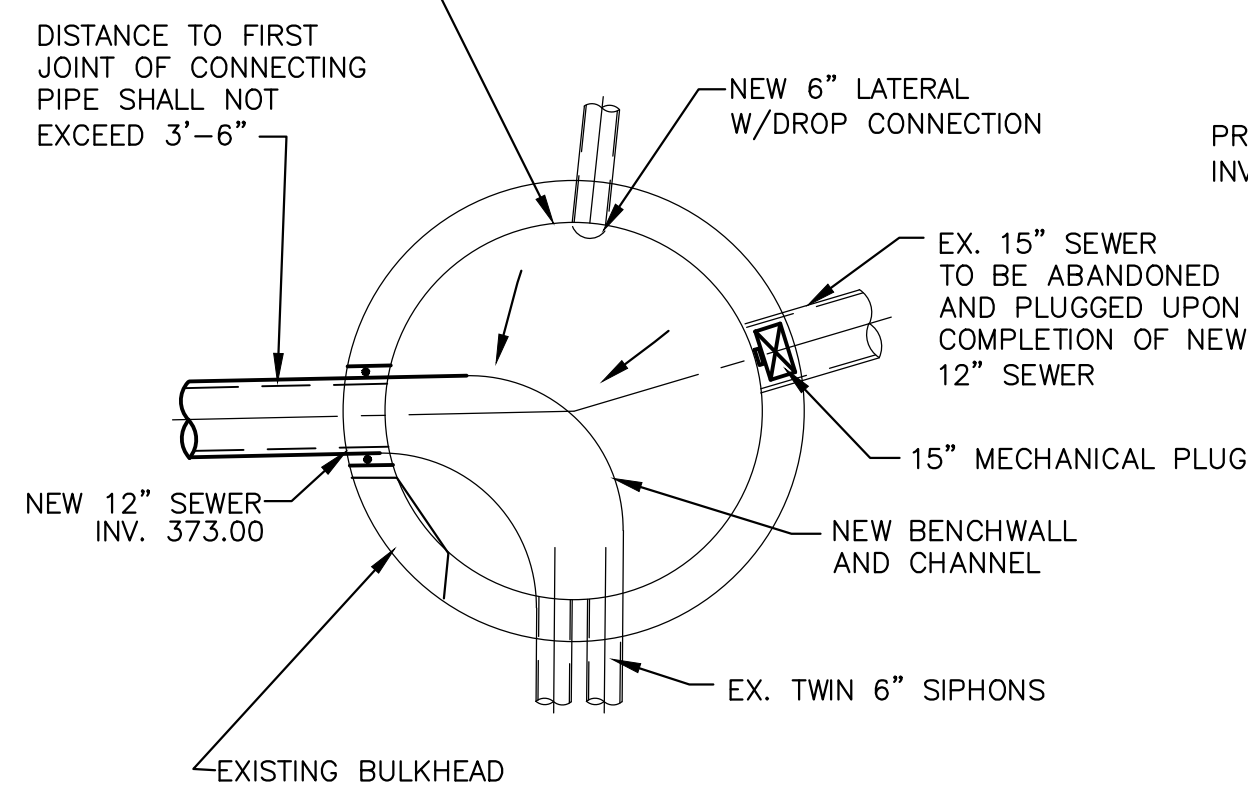


PIPE FOUNDATION/TRENCH FOR 12" SANITARY SEWER

TABLE NO. 2				
TRENCH WIDTH EXCAVATION LIMITS				
PIPE I.D.	WIDTH		D	CLSM = CONTROLLED LOW STRENGTH MATERIAL OD = OUTSIDE DIAMETER
	MAXIMUM	MINIMUM		
12"	O.D. + 5'	O.D. + 4'	4"	
84"	24'	17'	N/A	
96"	25'	18'	N/A	

CONVEYANCE PIPE FOUNDATION/TRENCH DETAILS
NOT TO SCALE

CLEAN MANHOLE INTERIOR W/HIGH PRESSURE WATER. INSTALL 1/2" LAYER OF CEMENTITIOUS COATING ON INTERIOR WALLS, PERMACAST MS 10000 OR EQUAL.



CONNECTION TO EXISTING SANITARY MH DETAIL
NOT TO SCALE

NOTE:
CORE DRILL EXISTING MANHOLE AS REQUIRED TO INSTALL NEW PIPES. REVISE BENCHWALL WITH 3000 PSI CONCRETE AS REQUIRED. PROVIDE LINK SEAL TYPE WALL PENETRATION AROUND EXTERIOR OF PIPE TO MAKE WATERTIGHT CONNECTION AND GROUT NEW PIPE IN PLACE AS REQUIRED FOR WATERTIGHT CONNECTION

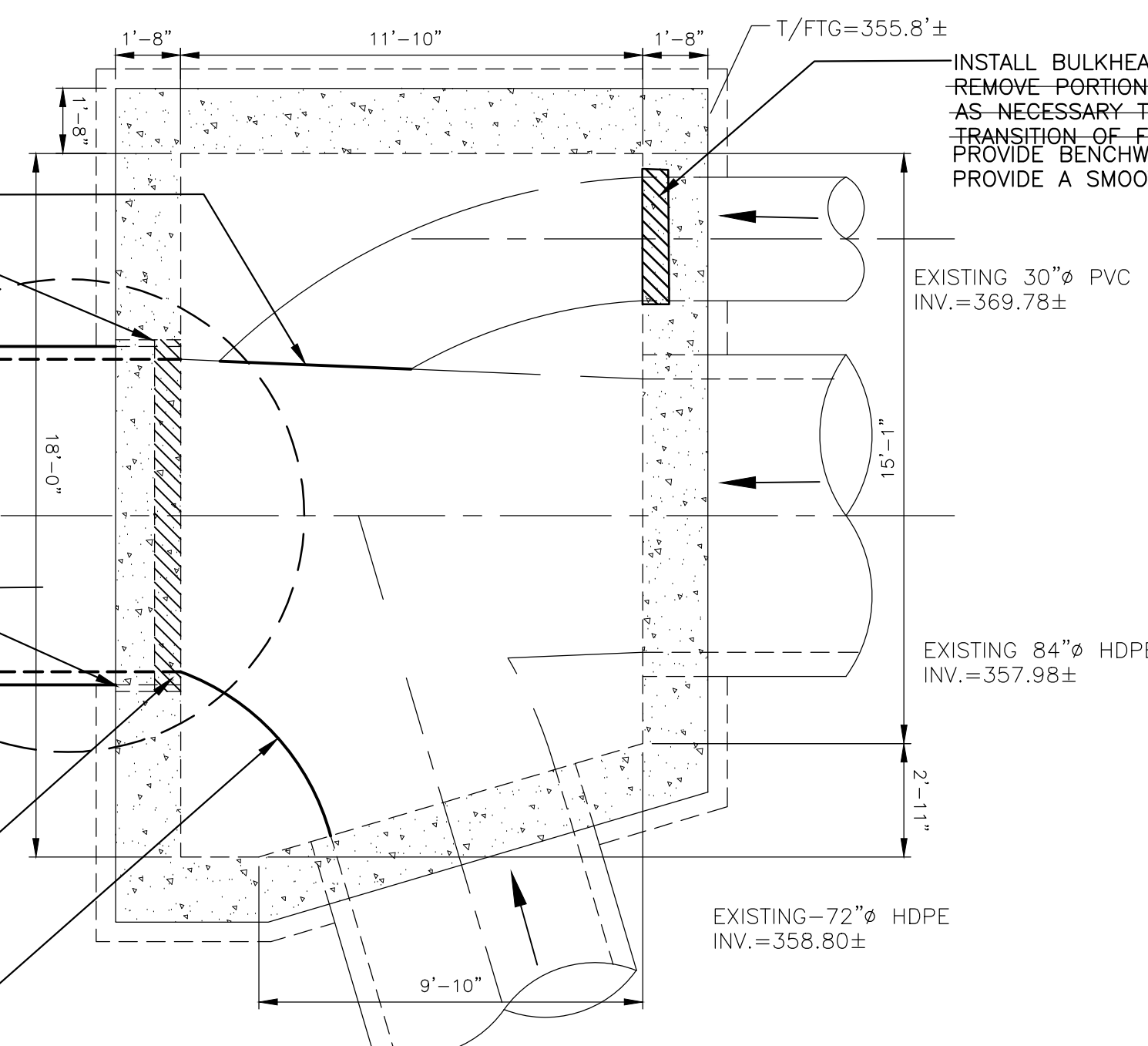
PROVIDE NEW 3000 PSI CONCRETE BENCHWALL FROM INVERT TO TOP OF 96" CONVEYANCE ON EACH SIDE

108" STEEL SLEEVE LEFT IN PLACE FOR 96" CONNECTION

96" CONVEYANCE PIPE CONNECTION TO MH-1A, SEE-DETAIL "A"-THIS SHEET SEE ABOVE DETAIL

REMOVE EXISTING BULKHEAD SEE DETAIL THIS SHEET

FLOW ENTRANCE INTO OUTLET SHALL BE ROUNDED FOR SMOOTH TRANSITION OF FLOW



CONNECTION TO EXISTING MH-A1 DETAIL

- NOT TO SCALE
1. GROUT ANNULUS BETWEEN EXISTING STEEL SLEEVE OPENING AND 96" CONVEYANCE PIPE FULL WALL DEPTH FOR WATERTIGHT CONNECTION.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 04/01/2015 PER: *Scott Bailey*

COMPACTION REQUIREMENT: ALL BACKFILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR.

L: ON=*; OFF=*REF*
X: MO/DA/YR CO DFT
DIR/DWG

SCALE: NOT TO SCALE

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3	04/15	RECORD DRAWINGS	
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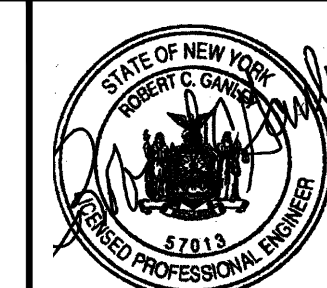
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CLINTON CSO STORAGE FACILITY PROJECT

MISCELLANEOUS CONVEYANCE DETAILS

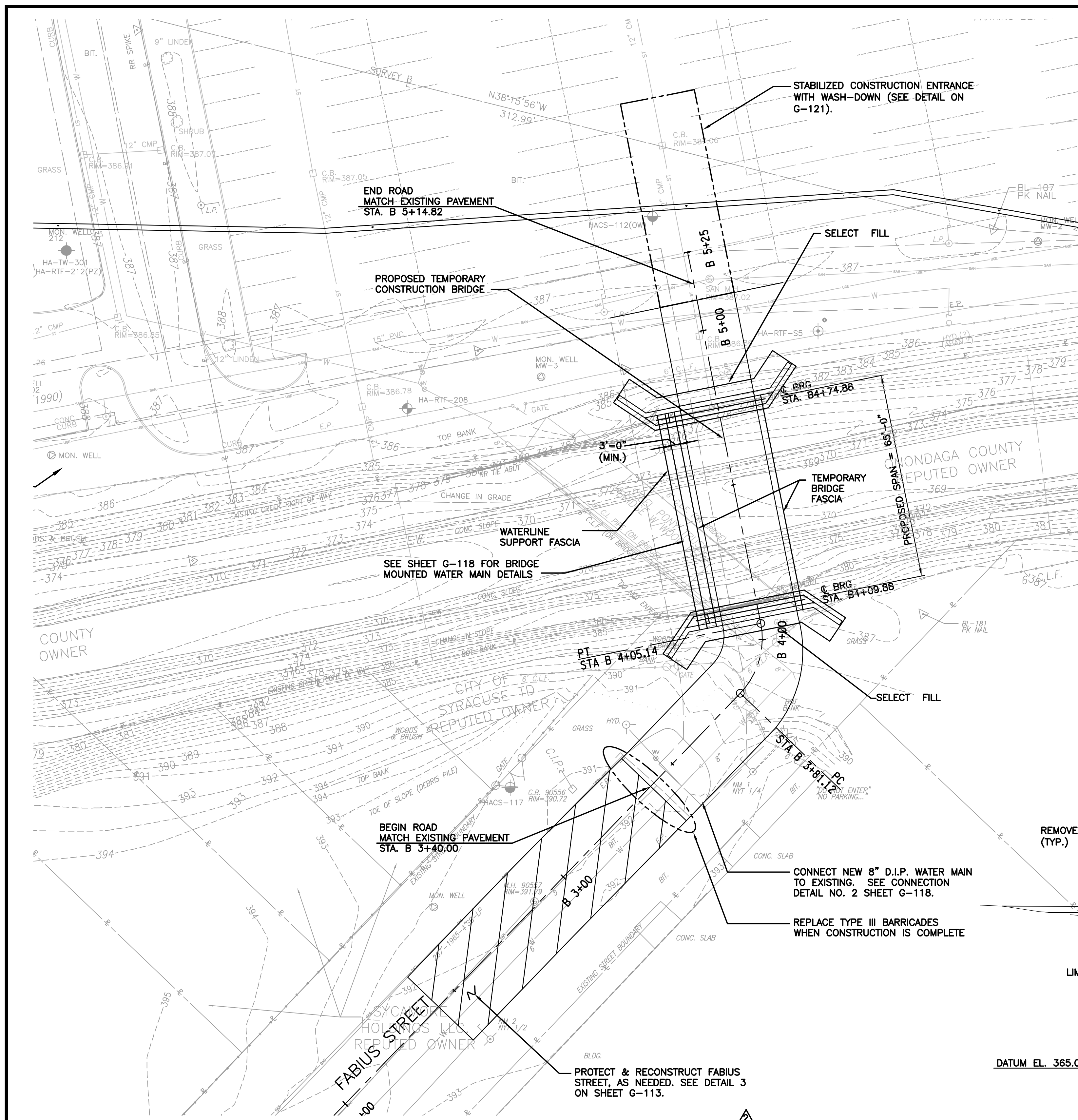
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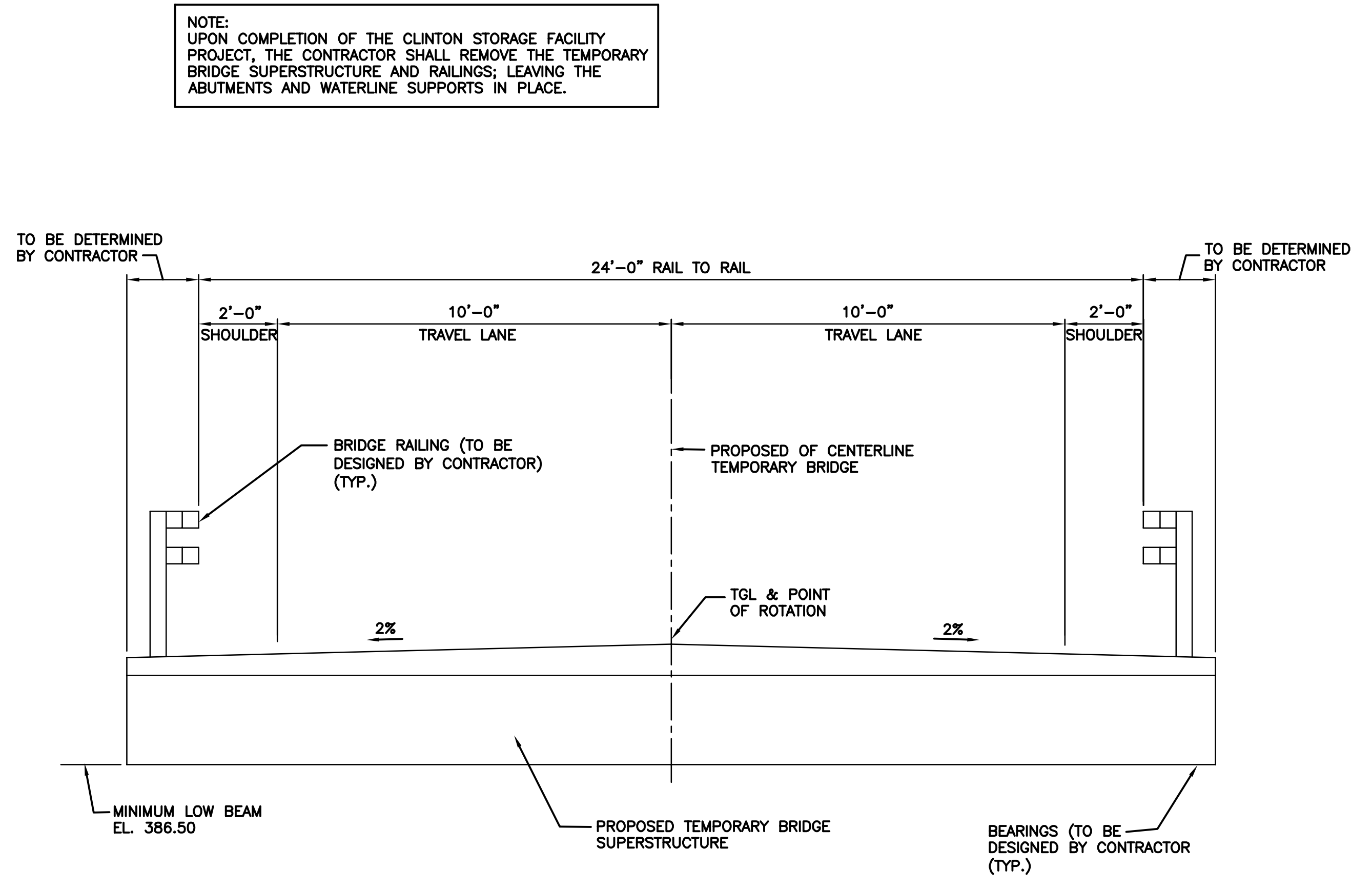
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Date
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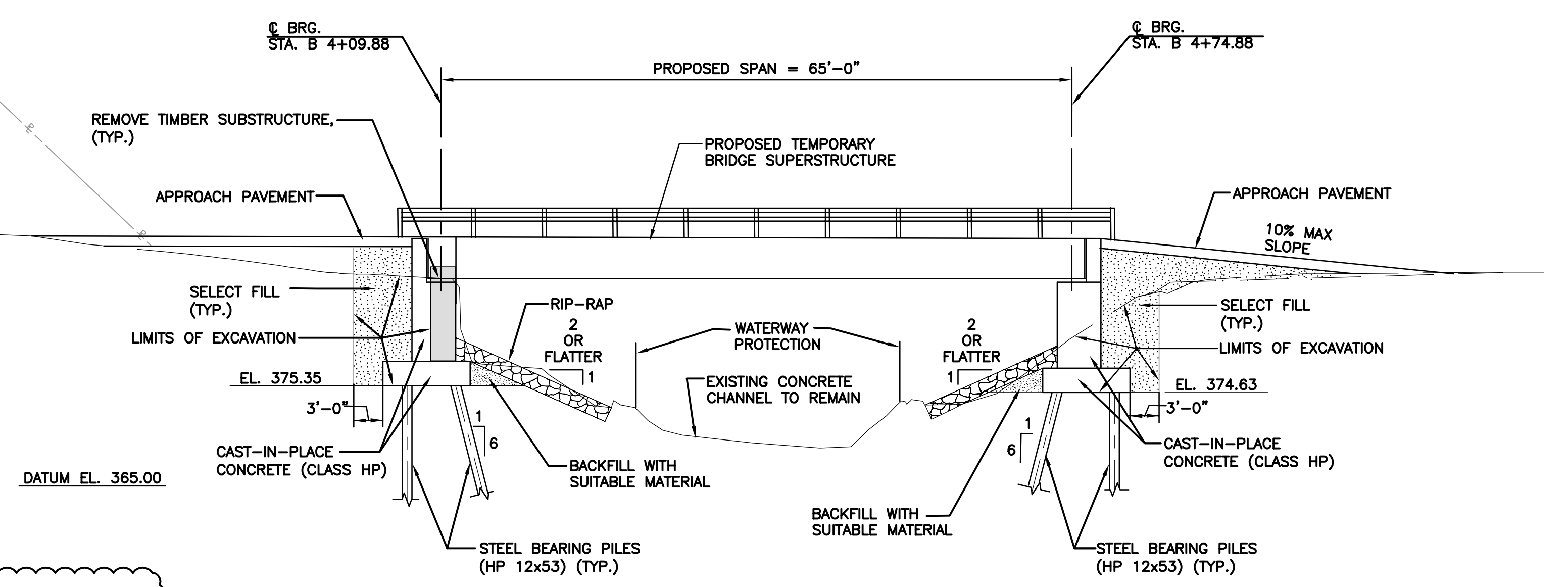
G-129



PROPOSED BRIDGE PLAN
SCALE: 1"=20'-0"



PROPOSED BRIDGE SECTION
SCALE: 1"=1'-0"



PROPOSED BRIDGE ELEVATION
SCALE: 1"=10'-0"

L: ON=*, OFF=*REF*
X:
8/23/10 B&L GRR
1079003/CST-G-130.DWG
SCALE:
1"=20'

No.	Date	Revisions	Init
3	02/12	REVISED PER ADDENDA	KMK
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

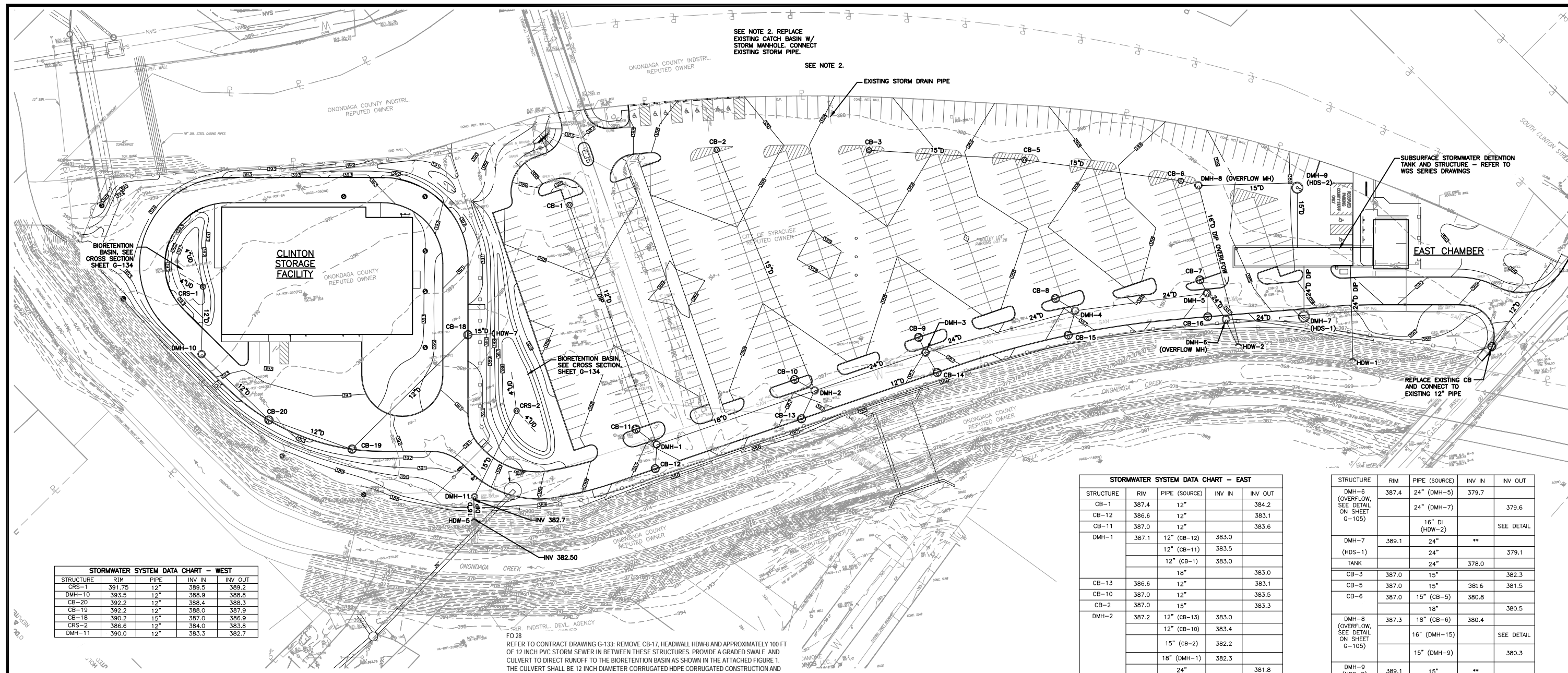
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Checked by LMM



ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT
TEMPORARY CONSTRUCTION BRIDGE
- PLAN, SECTION & ELEVATION
GENERAL



File Number 006.63
Date 04/11
G-130



SEE NOTE 2. REPLACE EXISTING CATCH BASIN W/ STORM MANHOLE. CONNECT EXISTING STORM PIPE.

SEE NOTE 2.

SUBSURFACE STORMWATER DETENTION TANK AND STRUCTURE - REFER TO WGS SERIES DRAWINGS

EAST CHAMBER

REPLACE EXISTING CB AND CONNECT TO EXISTING 12" PIPE

STORMWATER SYSTEM DATA CHART - WEST

STRUCTURE	RIM	PIPE	INV IN	INV OUT
CRS-1	391.75	12"	389.5	389.2
DMH-10	393.5	12"	388.9	388.8
CB-20	392.2	12"	388.4	388.3
CB-19	392.2	12"	388.0	387.9
CB-18	390.2	15"	387.0	386.9
CRS-2	386.6	12"	384.0	383.8
DMH-11	390.0	12"	383.3	382.7

STORMWATER SYSTEM DATA CHART - OUTFALLS

OUTLET	FROM	PIPE	INV EL.
HDW-1	TANK OVERFLOW	24"	376.5
HDW-2	OVERFLOW FROM DMH-6	16"	377.0
	OVERFLOW FROM DMH-8	16"	377.0
HDW-5	FROM DMH-11	16"	382.5
HDW-7	FROM CB-18 TO BIORETENTION	15"	386.85

- DRAINAGE STRUCTURE LEGEND**
- ⊙ 4' DIA. PRECAST CONCRETE CATCH BASIN
 - ⊙ 6' DIA. PRECAST CONCRETE CATCH BASIN AT CURBS
 - ⊙ 5' DIA. PRECAST CONCRETE MANHOLES
 - ⊙ HYDRODYNAMIC SEPARATOR PER SPECIFICATIONS

NOTES:

- ALL STORMWATER COLLECTION PIPES TO BE PVC CONSTRUCTION UNLESS OTHERWISE NOTED.

FO 28
REFER TO CONTRACT DRAWING G-133: REMOVE CB-17, HEADWALL HDW-8 AND APPROXIMATELY 100 FT OF 12 INCH PVC STORM SEWER IN BETWEEN THESE STRUCTURES. PROVIDE A GRADED SWALE AND CULVERT TO DIRECT RUNOFF TO THE BIORETENTION BASIN AS SHOWN IN THE ATTACHED FIGURE 1. THE CULVERT SHALL BE 12 INCH DIAMETER CORRUGATED HDPE CORRUGATED CONSTRUCTION AND USED UNDER THE FENCE CROSSING. THE 1-1/2 INCH SUMP PUMP DISCHARGE FOR THE WATER METER VAULT PREVIOUSLY DISCHARGED TO CB-17 SHALL BE DISCHARGED TO DAYLIGHT IN THE SWALE. PROVIDE TYPE 2 (NYS DOT TYPE 2) CRUSHED STONE AROUND THE SUMP PUMP DISCHARGE OUTLET.

REVISE THE PIPE BETWEEN THE CRS-2 AND DMH-11 FROM A 12 INCH PVC TO A 15 INCH PVC PIPE. REVISE THE PIPE BETWEEN DMH-11 AND HDW-5 FROM A 12 INCH DUCTILE IRON PIPE AND LOWER THE PIPE INVERT ELEVATIONS AS SHOWN IN FIGURE 1. REVISE THE HEADWALL HDW-5 AND ELASTOMERIC CHECK VALVE ACCORDINGLY.

FO 42
IN REVIEW OF SHOP DRAWING 2514-10-03 '6 FT DIAMETER PRECAST CONCRETE CATCH BASINS' IT WAS NOTED THAT THE STORM DRAINS WERE SLIGHTLY TOO SHALLOW TO PROPERLY FIT THE CATCH BASIN. THEREFORE REVISE THE INVERT ELEVATIONS AT CATCH BASIN CB-18 AS FOLLOWS:
12" INVERT IN LOWER FROM 387.3 TO 387.0
15" INVERT OUT LOWER FROM 387.2 TO 386.9
REVISE THE 15" INVERT ELEVATION FOR HEADWALL HDW-7 FROM 387.1 TO 386.85

RFI 207
THE STORM SEWER BETWEEN DMH-9 AND THE FLUSHING TANKS (STORM WATER HOLDING TANK) SHALL BE 15-INCH DIAMETER, PVC CONSTRUCTION. PLEASE DISREGARD THE REFERENCED TO 'DUCTILE IRON'.

RFI 303
CONTRACTOR'S PROPOSED INVERT ELEVATION CHANGES FOR CB-18 AND HDW-7 ARE ACCEPTABLE, EXCEPT AS MODIFIED BELOW.

REVISE THE ELEVATION OF CB-18 INVERT IN, SUCH THAT THE PIPE CROWN ELEVATION MATCHES THE ELEVATION OF THE 15 INCH INVERT OUT. THE NEW ELEVATIONS SHALL BE AS FOLLOWS:
NEW INVERT ELEVATIONS:
CB-18 INVERT IN (12") 386.95
CB-18 INVERT OUT (15") 386.7
HDW-7 INVERT 386.6

STORMWATER SYSTEM DATA CHART - EAST

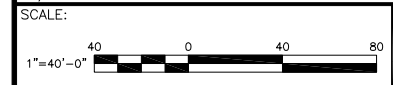
STRUCTURE	RIM	PIPE (SOURCE)	INV IN	INV OUT
CB-1	387.4	12"		384.2
CB-12	386.6	12"		383.1
CB-11	387.0	12"		383.6
DMH-1	387.1	12" (CB-12)	383.0	
		12" (CB-11)	383.5	
		12" (CB-1)	383.0	
DMH-2	387.2	12" (CB-13)	383.0	383.0
		12" (CB-10)	383.4	
DMH-3	386.9	12" (CB-9)	383.4	
		12" (CB-14)	383.0	
		24"	381.3	
DMH-4	387.1	12" (CB-15)	383.0	
		12" (CB-8)	383.4	
DMH-5	386.9	12" (CB-7)	383.2	
		24"	380.0	
		24"	379.9	
CB-14	386.6	12"		381.8
CB-9	387.0	12"		383.5
DMH-6	387.4	24" (DMH-5)	379.7	
		24" (DMH-7)		379.6
DMH-7	389.1	24"	**	
		24"		379.1
TANK		24"	378.0	
CB-3	387.0	15"		382.3
CB-5	387.0	15"	381.6	381.5
CB-6	387.0	15" (CB-5)	380.8	
DMH-8	387.3	18" (CB-6)	380.4	380.5
		16" (DMH-15)		SEE DETAIL
		15" (DMH-9)		380.3
DMH-9	389.1	15"	**	
		15"		379.7
TANK		15"	377.1	

STRUCTURE	RIM	PIPE (SOURCE)	INV IN	INV OUT
DMH-6 (OVERFLOW, SEE DETAIL ON SHEET G-105)	387.4	24" (DMH-5)	379.7	
		24" (DMH-7)		379.6
		16" DI (HDW-2)		SEE DETAIL
DMH-7 (HDS-1)	389.1	24"	**	
		24"		379.1
TANK		24"	378.0	
CB-3	387.0	15"		382.3
CB-5	387.0	15"	381.6	381.5
CB-6	387.0	15" (CB-5)	380.8	
DMH-8 (OVERFLOW, SEE DETAIL ON SHEET G-105)	387.3	18" (CB-6)	380.4	380.5
		16" (DMH-15)		SEE DETAIL
		15" (DMH-9)		380.3
DMH-9 (HDS-2)	389.1	15"	**	
		15"		379.7
TANK		15"	377.1	

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RECORD DRAWING
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DATE: 05/16 PER: RCF

* CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF EXISTING STORM DRAIN PIPES
** COORDINATE WITH MANUFACTURER OF HDS FOR INLET INVERT ELEVATION.

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG



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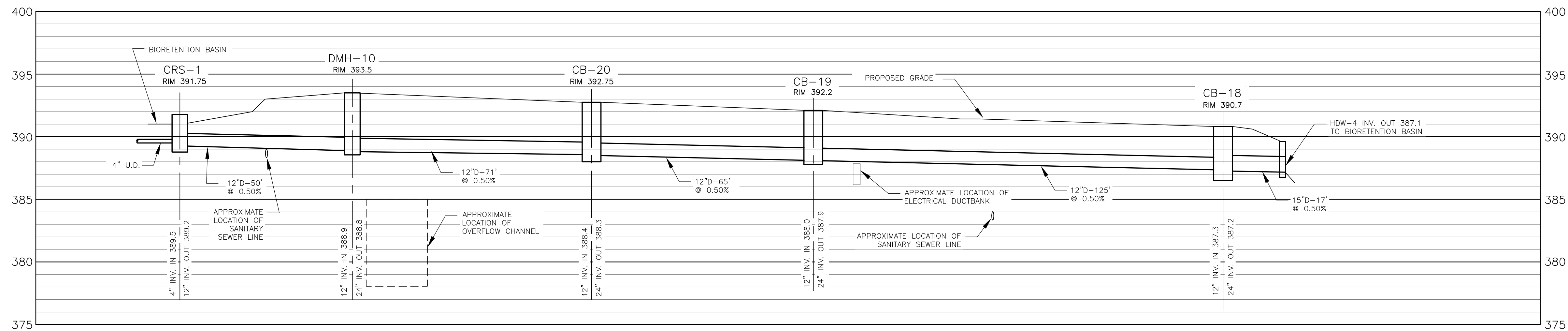
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CLINTON CSO STORAGE FACILITY PROJECT

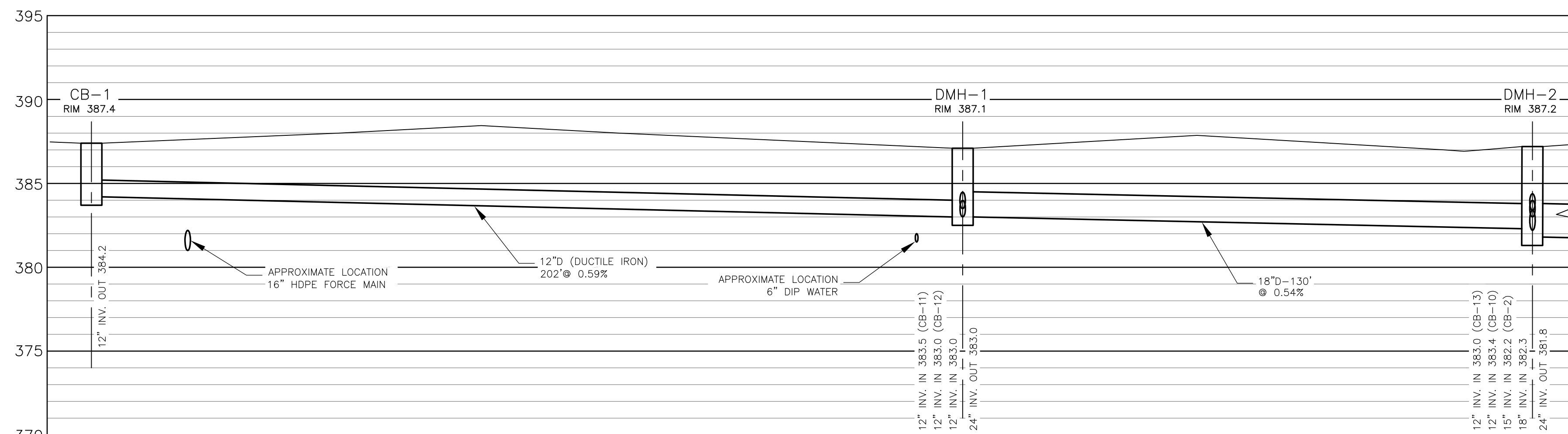
STORMWATER COLLECTION PLAN

GENERAL

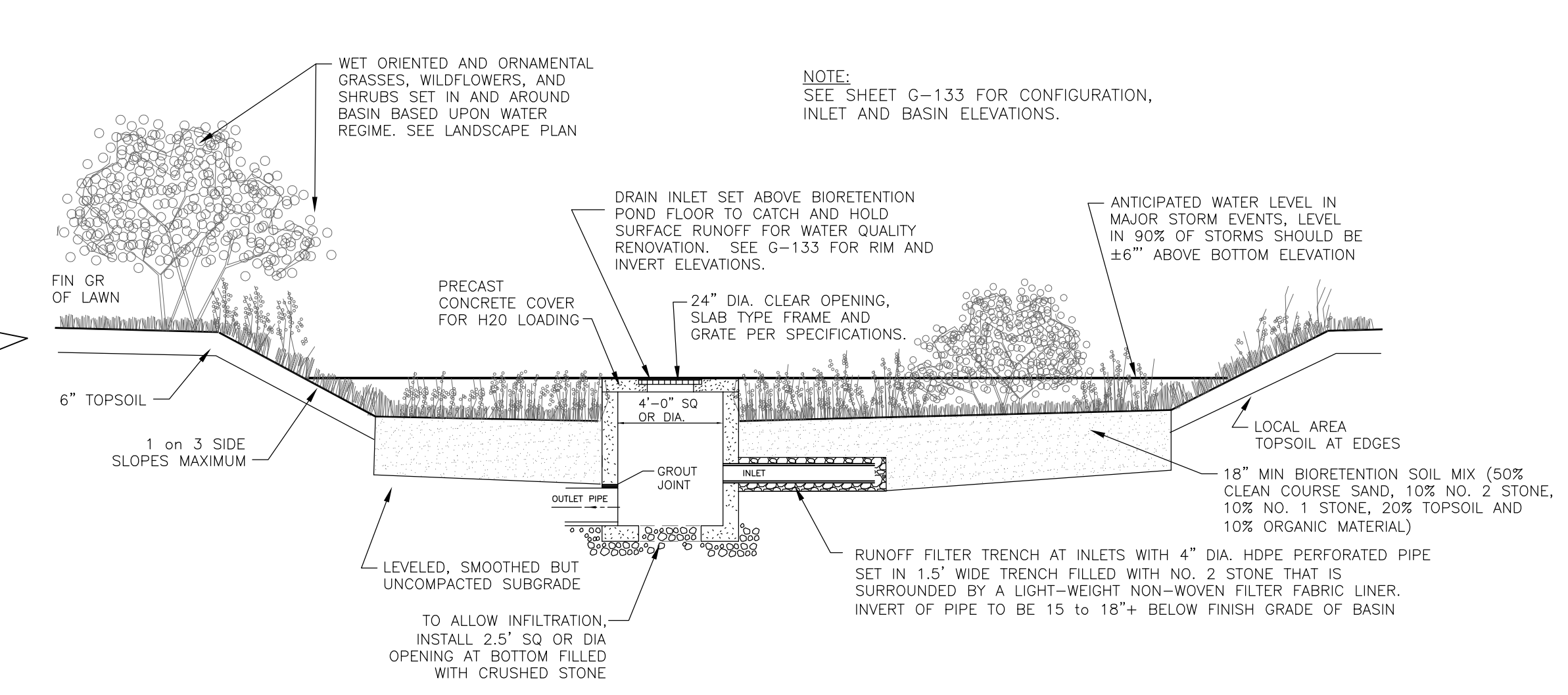
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Date 04/11
G-133



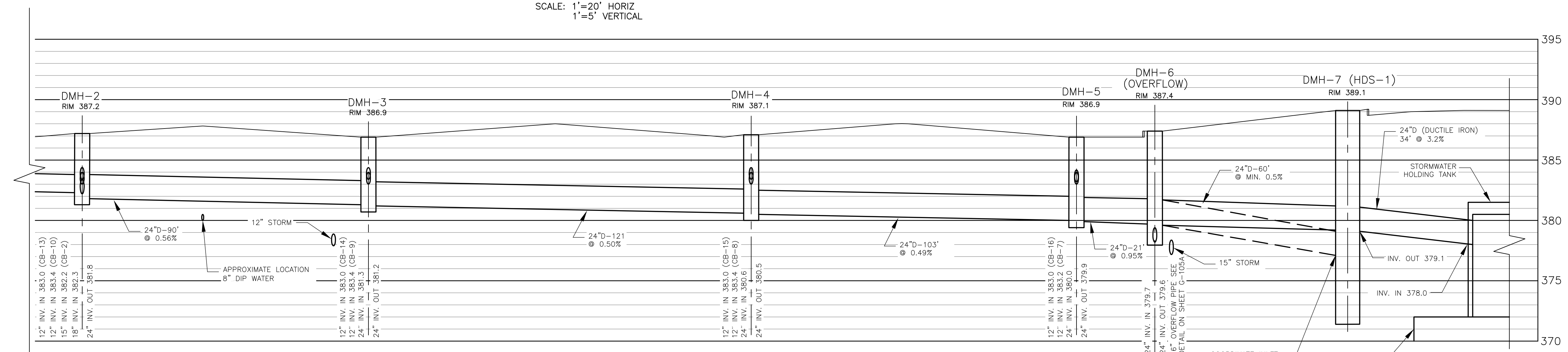
CRS-1 TO HDW-7
SCALE: 1"=20' HORIZ
1"=5' VERTICAL



CB-1 TO DMH-2
SCALE: 1"=20' HORIZ
1"=5' VERTICAL



BIORETENTION BASIN CROSS SECTION
NOT TO SCALE



DMH-2 TO STORMWATER HOLDING TANK
SCALE: 1"=20' HORIZ
1"=5' VERTICAL

L: ON=*, OFF=*REF*
X: MO/DA/YR CO DPT DIR/DWG

SCALE: 1"=5'-0" (0 to 10)
1"=40'-0" (0 to 80)

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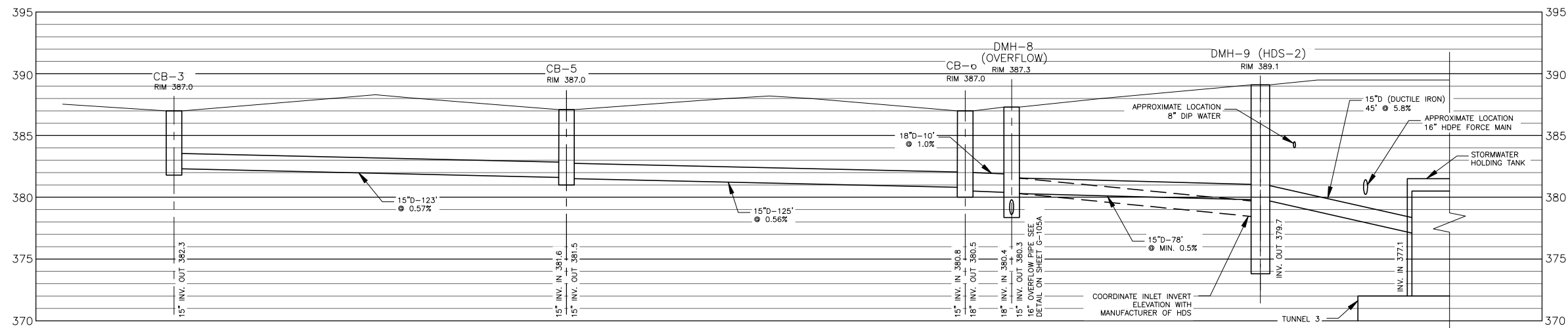
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**STORMWATER COLLECTION SYSTEM
PROFILES AND DETAILS**
GENERAL

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RECORD DRAWING

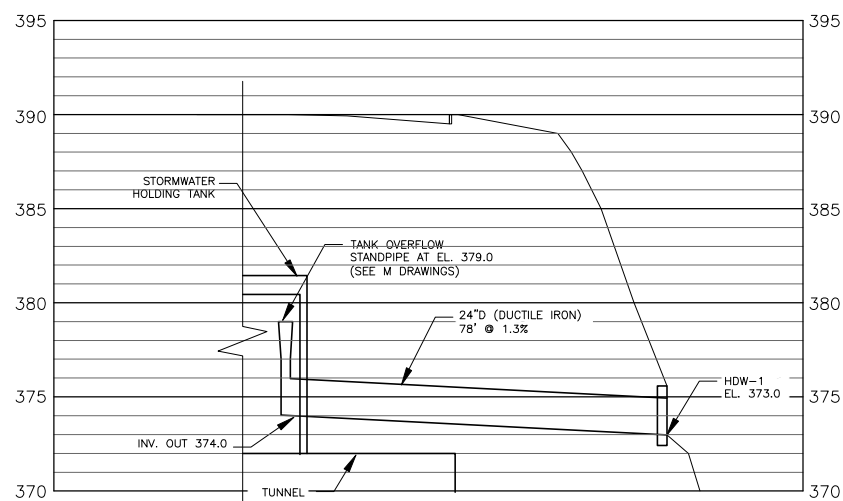
DATE: 05/16 PER: RCF

File Number: 00663
Date: 11/11
G-134



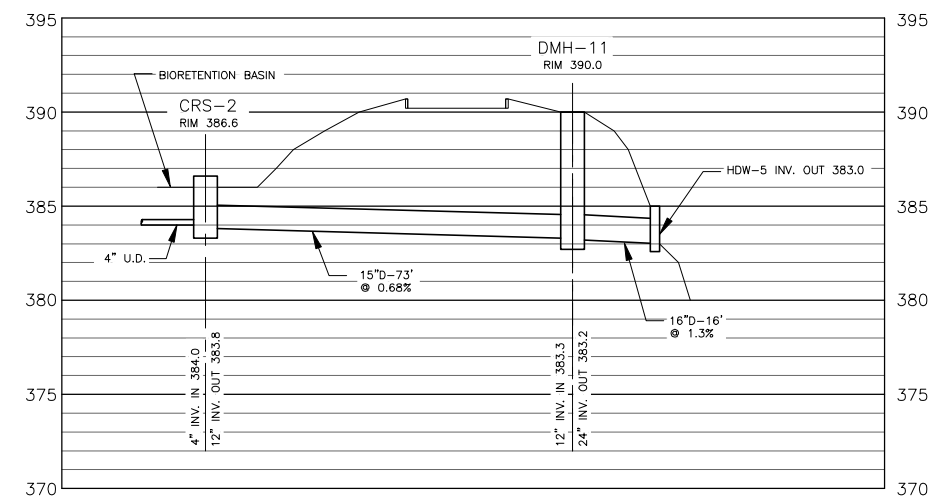
CB-3 TO STORMWATER HOLDING TANK

SCALE: 1"=20' HORIZ
1"=5' VERTICAL



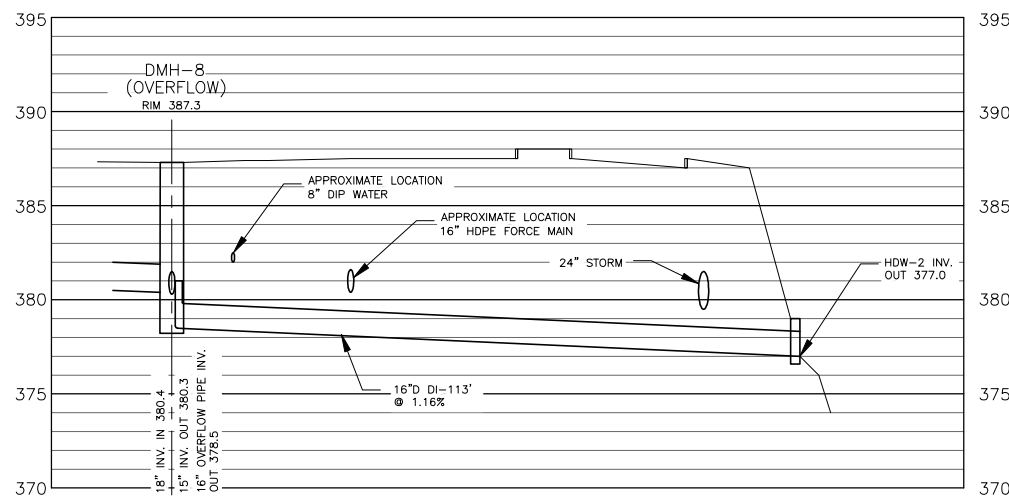
STORMWATER HOLDING TANK OVERFLOW TO HDW-1

SCALE: 1"=20' HORIZ
1"=5' VERTICAL



CRS-2 TO HDW-5

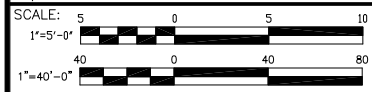
SCALE: 1"=20' HORIZ
1"=5' VERTICAL



DMH-8 TO HDW-2 (OVERFLOW)

SCALE: 1"=20' HORIZ
1"=5' VERTICAL

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**STORMWATER COLLECTION SYSTEM
PROFILES AND DETAILS**
GENERAL



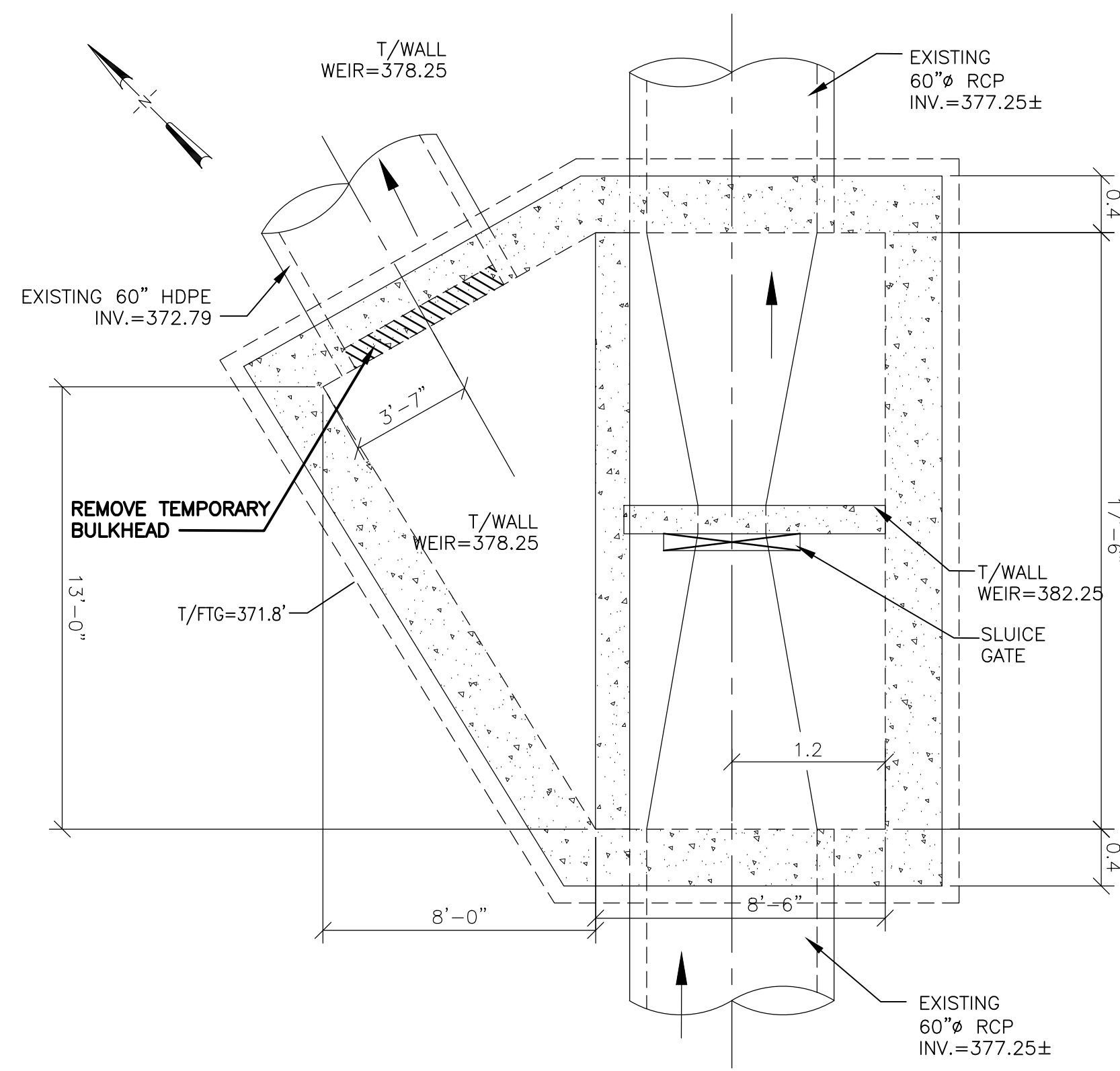
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Date
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G-134A

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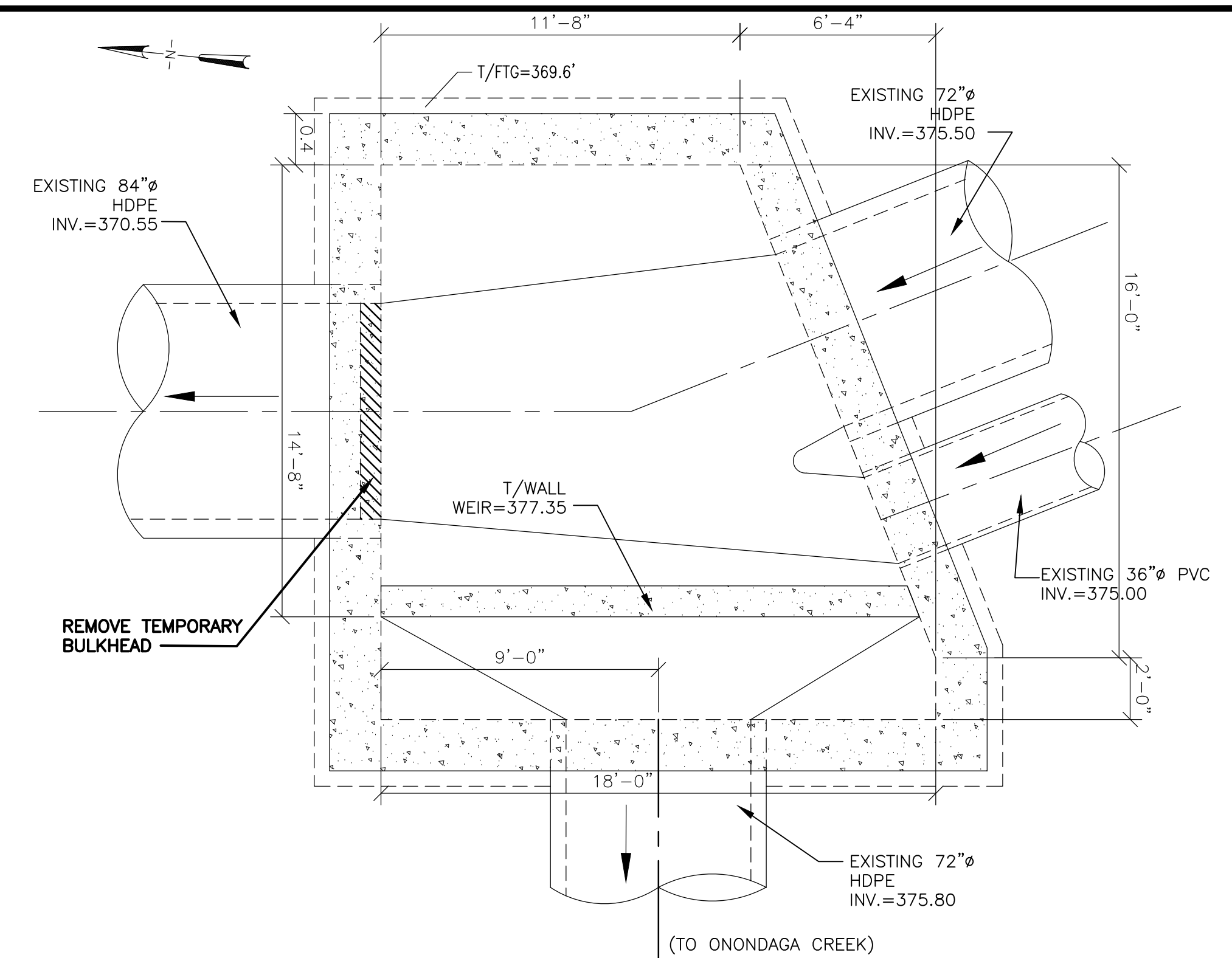
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DATE: 05/16 PER: RCF



EXISTING MH-D4 PLAN
NOT TO SCALE



EXISTING MH-A2 PLAN
NOT TO SCALE

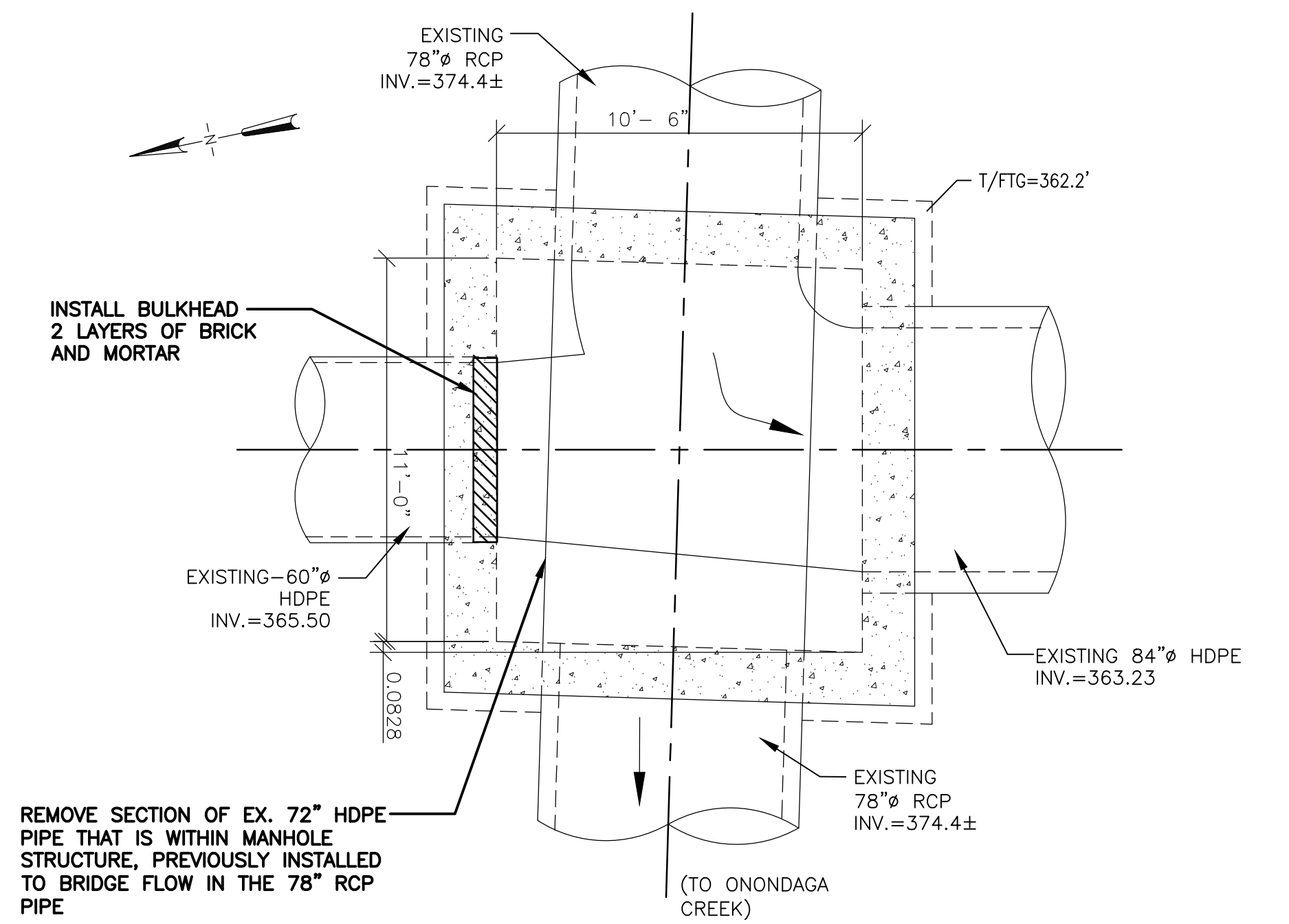
BULKHEAD REMOVAL TABLE		
MANHOLE	STRUCTURE TYPE	NOTES
MH-A2	SEE ABOVE	REMOVE BULKHEAD PROTECTING 84" HDPE PIPE
MH-A5	10' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 36" PVC PIPE
MH-D1	5' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 30" PVC PIPE
MH-D3	10' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 66" HDPE PIPE
MH-D4	SEE ABOVE	REMOVE BULKHEAD PROTECTING 60" HDPE PIPE
MH-T1	5' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 24" PVC PIPE
MH-W7A	8' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 30" PVC PIPE
MH-W6	8' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 27" PVC PIPE
MH-J1	SEE ABOVE	CUT 72" BRIDGE PIPE TO ALLOW FLOW TO DROP INTO EXISTING CONVEYANCE. INSTALL BULKHEAD TO PREVENT FLOW TO 60" PIPE

NOTES:

1. LOCATIONS OF EXISTING MANHOLES ARE SHOWN IN THE CLINTON STREET CSO CONVEYANCES PROJECT AS-BUILT DRAWINGS, AS PREPARED BY CDM/C&S, WHICH WERE PROVIDED FOR INFORMATION, BUT ARE NOT PART OF THE CONTRACT.
2. BULKHEADS CONSIST OF BRICK/BLOCK MASONRY PLUG.
3. THIS WORK SHALL NOT BE PERFORMED UNTIL THE CLINTON CSO STORAGE FACILITY IS OPERATIONAL AND AS ORDERED BY THE OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL:

1. DEWATER SEWAGE FROM MANHOLES AS REQUIRED. SEWAGE MAY BE DIRECTED TO A LOCAL SANITARY MANHOLE, AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
2. REMOVE BULKHEADS, BULKHEAD SUPPORTS AND HARDWARE, AND ALL SHARP OR JAGGED CONCRETE EDGES. EXCESS MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
3. GROUT HOLES, PATCH CONCRETE AND/OR INSTALL BENCHWALL TO PROVIDE A SMOOTH TRANSITION OF FLOW INTO OUTLET PIPELINE.
4. WORK SHALL BE PERFORMED AS DIRECTED BY OWNER'S ENGINEER.



EXISTING MH-J1 PLAN
NOT TO SCALE

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

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DATE: 04/01/2015 PER: *[Signature]*

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DIR/DWG

SCALE: NOT TO SCALE

No.	Date	Revisions	Init
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1	01/11	ISSUED FOR APPROVAL	RCG

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Drawn by SLJ
Checked by MER

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CLINTON CSO STORAGE FACILITY PROJECT

BULKHEAD REMOVAL DETAILS

GENERAL



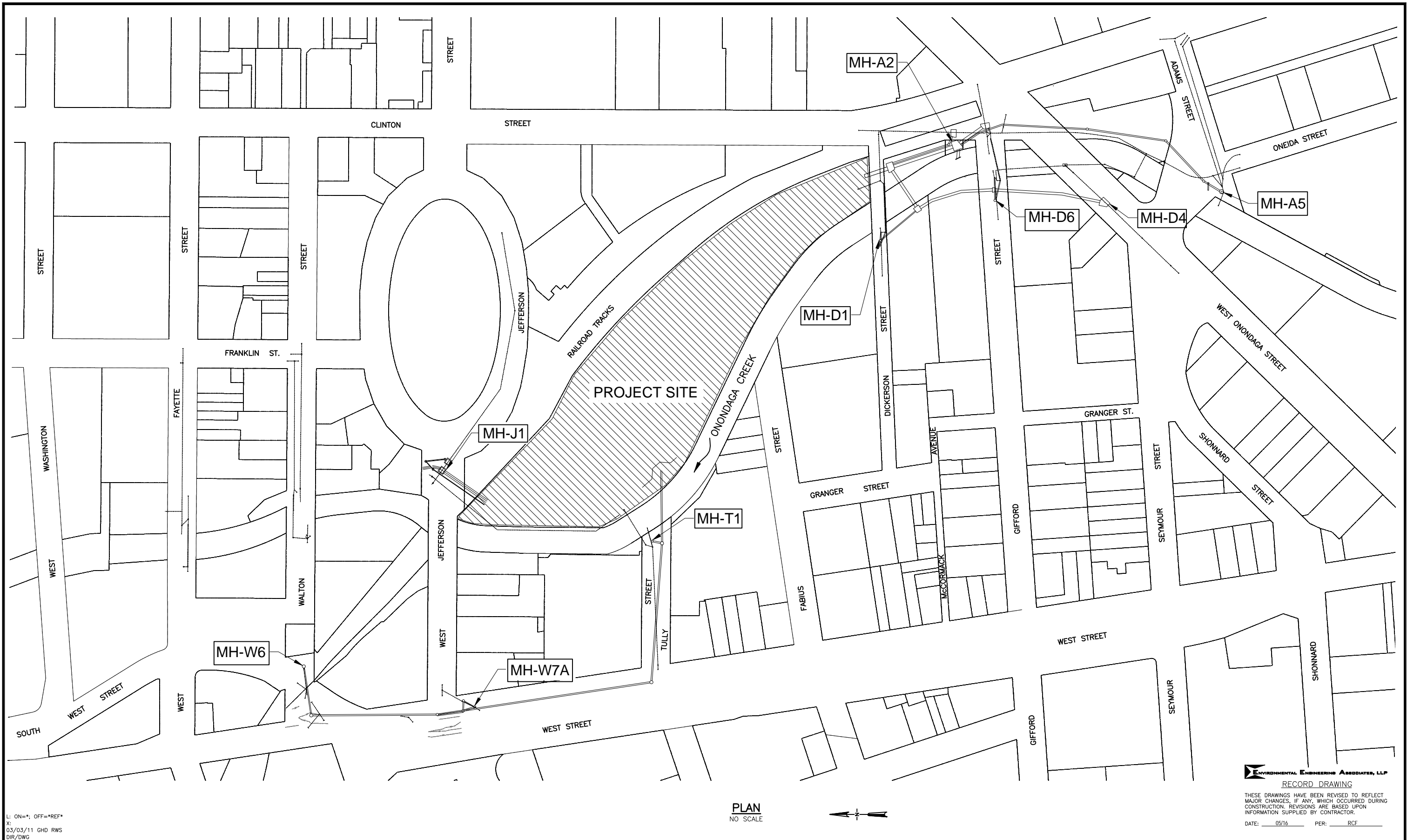
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Date
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G-135

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CLINTON CSO STORAGE FACILITY PROJECT

CSO LOCATION PLAN

GENERAL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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DATE: 05/16 PER: RCF

File Number: 00663
 Date: 04/11

G-136

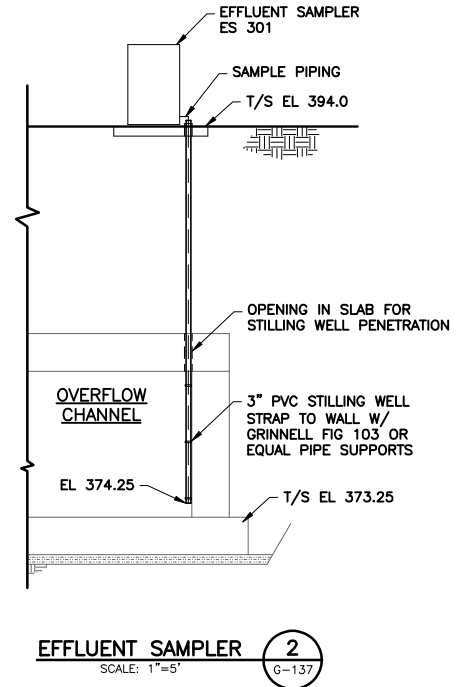
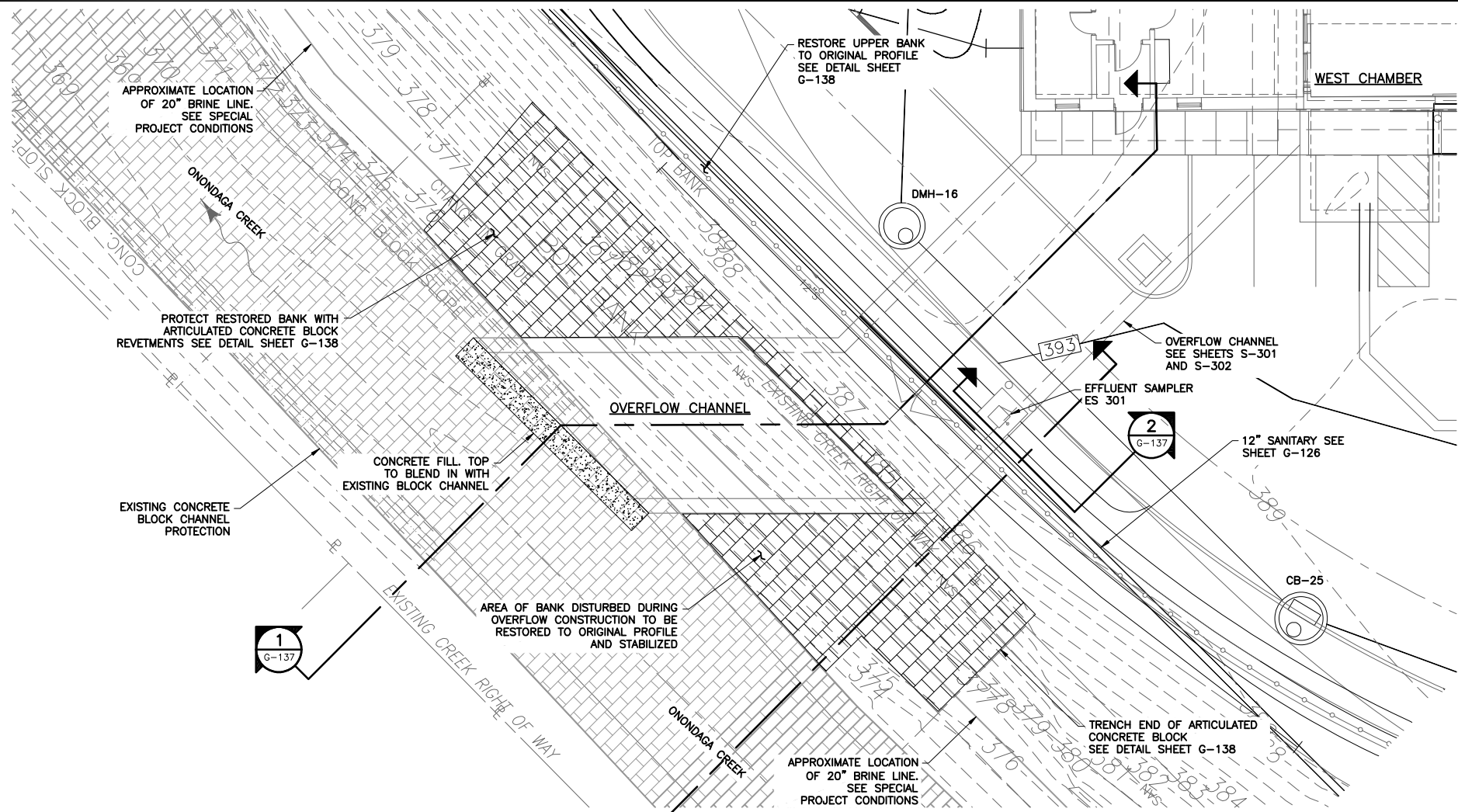
RFI 243
EVEN THOUGH THE EXISTING CREEK BED (CHANNEL) IS CONSTRUCTED OF CONCRETE SLABS INSTEAD OF CONCRETE BLOCKS, THE CONCRETE FILL AT THE END OF THE OVERFLOW CHANNEL SLAB SHALL STILL BE CONSTRUCTED AS INDICATED IN SECTION 1/S-302. IT SHOULD BE NOTED THAT THIS CONCRETE FILL IS EXPOSED TO PROCESS WATER, SO IT SHALL BE CONSTRUCTED OF MIX B' CONCRETE.

IF THE CONTRACTOR DESIRES TO CAST THIS CONCRETE FILL MONOLITHIC WITH THEN END OF THE OVERFLOW CHANNEL SLAB, THEN SUBMIT A PROPOSED DETAIL ON HOW THIS WOULD BE CONSTRUCTED. THIS PROPOSED DETAIL SHALL INCLUDE ADDITIONAL REINFORCING BARS EXTENDING INTO THIS NEWLY ADDED MONOLITHIC SECTION.

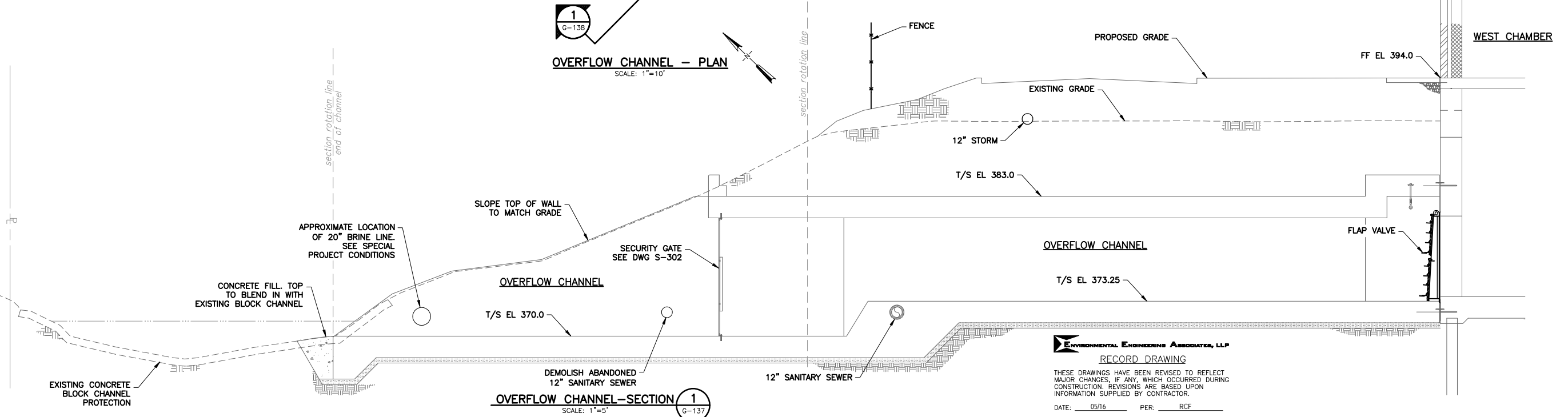
RFI 334
WE TAKE NO ISSUE WITH INSTALLING THE REVETMENT MAT AT A HIGHER ELEVATION AND CONTINUING IT UP HIGHER.

PROVIDE THE SPECIFICATION OF THE CONCRETE LINING AND GROUTED RIP RAP.

PROVIDE MORE DETAIL, INCLUDING PLANS AND SECTIONS, SHOWING HOW THE CONCRETE CREEK LINING AND GROUTED RIP RAP ARE TO BE CONSTRUCTED AND TIED INTO THE EXISTING BANK AND HOW THEY WILL BE TIED-IN BELOW THE WATER LINE.



OVERFLOW CHANNEL - PLAN
SCALE: 1"=10'



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RECORD DRAWING
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L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: 1"=10'-0"
1"=5'-0"

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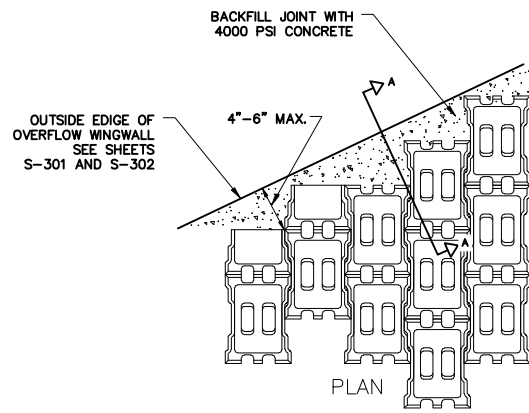
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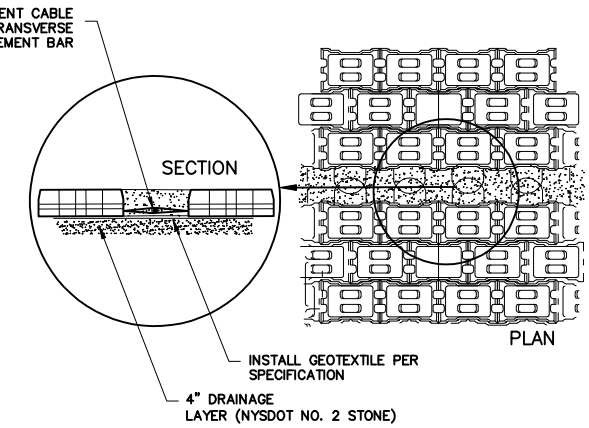
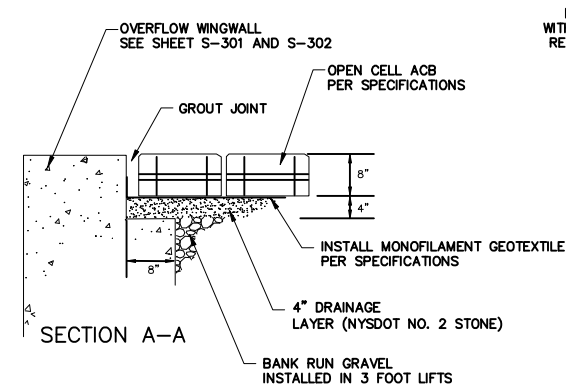
**OVERFLOW CHANNEL
PLAN AND SECTIONS**
GENERAL

File Number 00663
Date 04/11

G-137



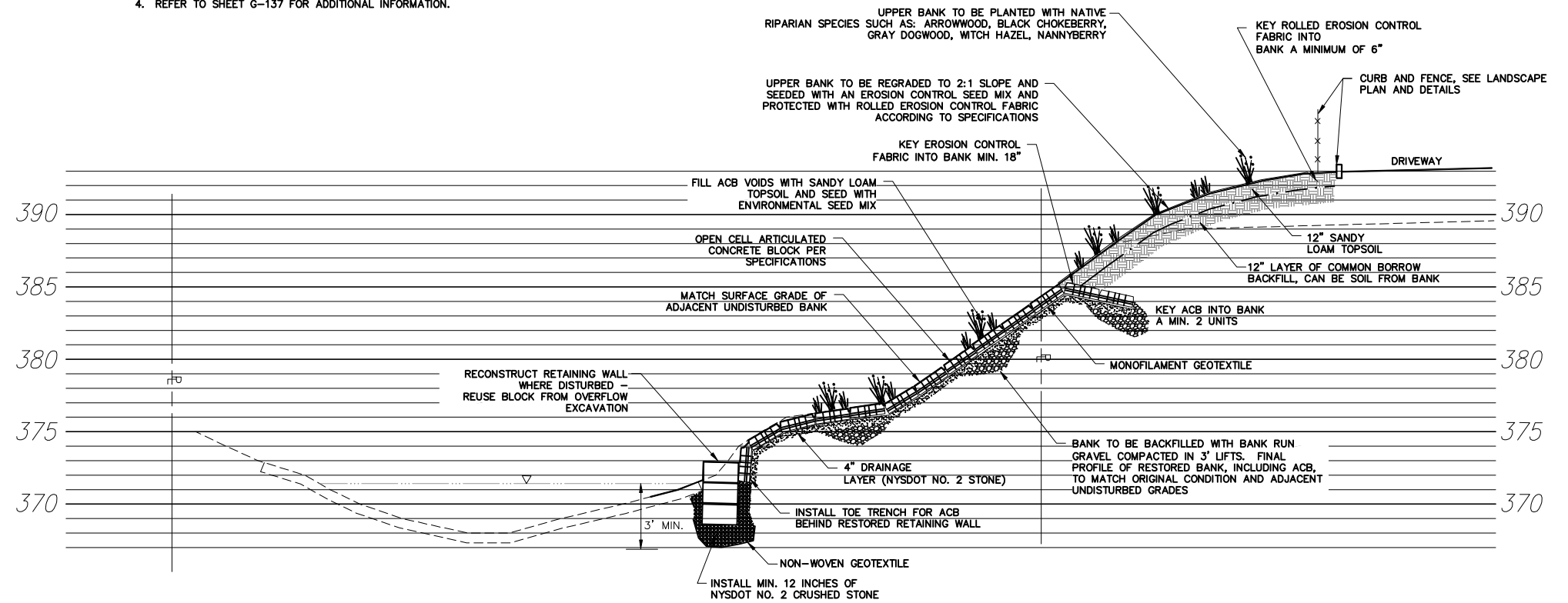
ARTICULATED CONCRETE BLOCK AT WINGWALL
NOT TO SCALE



ARTICULATED CONCRETE BLOCK GROUT SEAM
NOT TO SCALE

NOTES:

1. CREEK BANKS DISTURBED DURING CONSTRUCTION OF OVERFLOW TO BE RESTORED TO ORIGINAL PROFILE.
2. ENTIRE AREA OF RESTORED BANK TO BE PROTECTED WITH ARTICULATED CONCRETE BLOCK (ACB) REVETMENTS. ACB SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS.
3. ACB MUST BE TERMINATED ON ALL FOUR SIDES, TOP, BOTTOM AND BOTH UPSTREAM AND DOWNSTREAM EDGES BY TRENCHING OR TYING TO ADJACENT STRUCTURE (SEE DETAILS THIS SHEET).
4. REFER TO SHEET G-137 FOR ADDITIONAL INFORMATION.



CREEK CHANNEL- UPSTREAM RESTORATION CROSS SECTION (2)
SCALE: 1"=5'

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

OVERFLOW CHANNEL SECTIONS AND DETAILS
GENERAL

STATE OF NEW YORK
SEAL OF THE STATE ENGINEER
No. 57504
LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-138