Appendix B

Plan Sheets

ST ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST. ALBANS, QUEENS, NEW YORK

CD-2 SUBMISSION

NCA PROJECT NO. 805CM3046

ARCHITECTURAL / SITE:

QPK DESIGN, LLP
ARCHITECTS/ENGINEERS
450 SOUTH SALINA ST
SYRACUSE NY 13201
315-472-7806

CIVIL / MEP:

GHD
ONE REMINGTON PARK DRIVE
CAZENOVIA, NY 13035
315-314-5712

ASBESTOS:

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131 VARICK ST SUITE 1022
NEW YORK, NEW YORK 10013
215-240-0366

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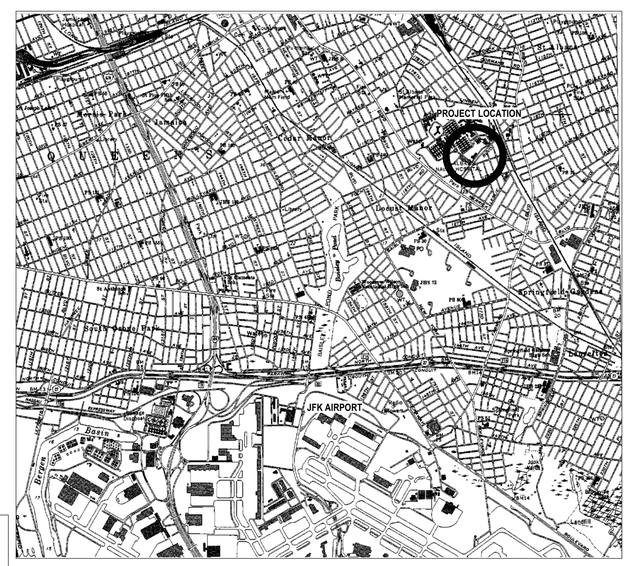
VICINITY MAP



LOCATION MAP

DRAWING LIST

GENERAL		
	G-001	COVER SHEET
CIVIL		
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	CD-102	EROSION AND SEDIMENTATION CONTROL PLAN
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	C-102	GRADING PLAN - PHASE 1
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	CS-001	SITE UTILITY DETAILS
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STRUCTURAL		
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	S-301	SECTIONS & DETAILS
	S-302	SECTIONS & DETAILS
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ARCHITECTURAL INFORMATION		
	A-001	GENERAL INFORMATION
	A-002	PARTITION INFORMATION & CODE
ABATEMENT		
	ASM-1	BASEMENT ASBESTOS-CONTAINING FLOOR TILE, FLOORING MASTIC, AND COVE BASE MASTIC
	ASM-2	FIRST FLOOR ASBESTOS-CONTAINING FLOOR TILE, FLOORING MASTIC, AND COVE BASE MASTIC
	ASM-3	SECOND FLOOR ASBESTOS-CONTAINING FLOOR TILE, FLOORING MASTIC, AND COVE BASE MASTIC
	ASM-4	THIRD FLOOR ASBESTOS-CONTAINING FLOOR TILE, FLOORING MASTIC, AND COVE BASE MASTIC
	ASM-5	BASEMENT ASBESTOS-CONTAINING PIPE FITTING INSULATION, BOILER GASKET AND DRYWALL JOINT COMPOUND
	ASM-6	FIRST FLOOR ASBESTOS-CONTAINING PIPE FITTING INSULATION, DRYWALL JOINT COMPOUND, AND TRANSITE CEILING PANEL
	ASM-7	SECOND FLOOR ASBESTOS-CONTAINING PIPE FITTING INSULATION, DRYWALL JOINT COMPOUND, AND TRANSITE CEILING PANEL
	ASM-8	THIRD FLOOR ASBESTOS-CONTAINING PIPE FITTING INSULATION, DRYWALL JOINT COMPOUND, AND TRANSITE CEILING PANEL
	ASM-9	ROOF ASBESTOS-CONTAINING MATERIAL

DRAWING LIST

ARCHITECTURAL DEMOLITION		
	AD-101	BLDG 165 & 166 - BASEMENT PLAN - DEMO
	AD-102	BLDG 165 & 166 - FIRST FLOOR PLAN - DEMO
	AD-103	BLDG 165 & 166 - SECOND FLOOR PLAN - DEMO
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	A-401	ADMINISTRATION BUILDING - ENLARGED PLANS & ELEVATIONS
	A-601	ADMINISTRATION BUILDING-SCHEDULES & DETAILS
	AJ-101	COMMITTAL SHELTER-PLANS & DETAILS
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	AK-101	NICHE WALL TYPE A-PLANS & ELEVATIONS
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PLUMBING		
	P-001	SYMBOL LIST
	P-101	ADMINISTRATION BUILDING PLUMBING PLANS
	P-102	COMMITTAL SHELTER PLUMBING PLANS
	P-501	PLUMBING DETAILS
	P-502	PLUMBING DETAILS
	P-601	FIXTURE SCHEDULE
ELECTRICAL		
	E-001	ELECTRICAL SYMBOLS LEGEND, ABBREVIATIONS AND NOTES
	E-201	ADMIN BLDG ELECTRICAL FLOOR PLANS-SECURITY/ FIRE ALARM & LIGHTING
	E-202	ADMINISTRATION BUILDING ELECTRICAL FLOOR PLAN - POWER
	E-203	COMMITAL SHELTER ELECTRICAL PLAN
	E-501	ELECTRICAL DETAILS
	E-601	ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES
	E-602	ELECTRICAL SCHEDULES
	E-603	ELECTRICAL SCHEDULES
	E-701	PHOTOMETRIC PLANS

GRAVESITE SUMMARY

PHASE	NICHE	MEMORIAL PLAQUES
PHASE 1	4,640 NICHES	350 PLAQUES
PHASE 1 ALTERNATE	1,920 NICHES	-----
	TOTAL : 6,560 NICHES	

US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

DESIGNED BY: MK | DATE: 04/30/19
DWN BY: JP | CKD BY: MK | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.: W91ZDS17F0030
PLOT SCALE: 1" = 1'-0" | PLOT DATE: | FILE NUMBER: 217155.00
SIZE: | FILE NAME:

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

COVER SHEET

G-001

CD-2 SUBMISSION

A		M	
AC-FT	ACRE-FEET	MH	MANHOLE
AC	ACRES	MFR	MANUFACTURER
ACC	ASPHALT CEMENT CONCRETE	MATL	MATERIAL
ADDM	ADDENDUM	MAX	MAXIMUM
ALT	ALTERNATE	MECH	MECHANICAL
ALUM	ALUMINUM	MTL	METAL
ADA	AMERICAN WITH DISABILITIES ACT	MIN	MINIMUM
AB	ANCHOR BOLT	MISC	MISCELLANEOUS
ANOD	ANODIZED		
APPROX	APPROXIMATE	N	
ARCH	ARCHITECTURAL)	NOM	NOMINAL
AD	AREA DRAIN	N	NORTH
ASPH	ASPHALT	NA	NOT APPLICABLE
		NIC	NOT IN CONTRACT
B		NTS	NOT TO SCALE
BSMT	BASEMENT	NO	NUMBER
BM	BEAM, BENCHMARK		
BC	BOTTOM OF CURB	O	
BW	BOTTOM OF WALL	OC	ON CENTER
BLDG	BUILDING	OPNG	OPENING
		OD	OUTSIDE DIAMETER
C		OH	OVERHEAD
CIP	CAST IRON / CURB INLET	OHC	OVERHEAD COMMUNICATIONS
CIP	CAST IRON PIPE / CAST IN PLACE	OHE	OVERHEAD ELECTRIC
CB	CATCH BASIN		
CL	CENTERLINE	P	
CO	CLEANOUT	PL	PROPERTY LINE
CLR	CLEAR	PC	POINT OF CURVE
COL	COLUMN	PCC	PORTLAND CEMENT CONCRETE
COMB	COMBINATION	PERF	PERFORATED
COM	COMMUNICATION	PI	PINT OF INTERSECTION
CONC	CONCRETE	PLBG	PLUMBING
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
CONSTR	CONSTRUCTION	PT	PRESSURE TREATED
CJ	CONSTRUCTION JOINT	PVC	POLYVINYL CHLORIDE (PLASTIC)
CONT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CLL	CONTRACT LIMIT LINE	PSF	POUNDS PER SQUARE FOOT
CONTR	CONTRACTOR	PW	PRIVATE WATER / DOMESTIC WATER
COORD	COORDINATE		
CMP	CORRUGATED METAL PIPE	Q	
CU FT	CUBIC FEET	QTY	QUANTITY
CFS	CUBIC FEET PER SECOND		
CU YD	CUBIC YARD	R	
		R	RADIUS
D		REINF	REINFORCE(D)(-ING)
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIM	DIMENSION	REQ'D	REQUIRED
DWG	DRAWING	REV	REVISION
DI	DROP INLET	ROW	RIGHT OF WAY
DIP	DUCTILE IRON PIPE		
		S	
E		SAN	SANITARY
EA	EACH	SD	STORM DRAIN
E	EAST	SS	SANITARY SEWER
ELEC	EXECTIC(AL)	SCHED	SCHEDULE
EL	ELEVATION	SJ	SCORED JOINT
EQ	EQUAL	SECT	SECTION
EST	ESTIMATE	SHT	SHEET
EXIST	EXISTING	S	SOUTH
EXIST GR	EXISTING GRADE	SPEC	SPECIFICATION
EXP	EXPANSION	SQ	SQUARE
EJ	EXPANSION JOINT	SF	SQUARE FEET
		STD	STANDARD
F		STM	STEAM
FT/FT	FEET PER FOOT	STW	STORMWATER
FPS	FEET PER SECOND	STRUCT	STRUCTURE / STRUCTURAL
FFE	FINISH FLOOR ELEVATION		
FF EL	FINISH FLOOR ELEVATION	T	
FIN	FINISHED)	TD	TRENCH DRAIN
FIN GR	FINISHED GRADE	TEL	TELEPHONE
FH	FIRE HYDRANT	TC	TOP OF CURB
FLR	FLOOR	TOW	TOP OF WALL
FT	FOOT / FEET	TYP	TYPICAL
G		U	
GALV	GALVINIZED	UE	UNDERGROUND ELECTRIC
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
G	NATURAL GAS		
		V	
H		VIF	VERIFY IN FIELD
HT	HEIGHT	VERT	VERTICAL
HDPE	HIGH DENSITY POLYETHELENE PIPE		
HORIZ	HORIZONTAL	W	
HYD	HYDRANT	WTR	WATER
		W	WEST
I		W/	WITH
INCL	INCLUDE(D)(-ING)	W/O	WITHOUT
ID	INSIDE DIAMETER	WPT	WORKPOINT
INV	INVERT		
		Y	
J		YR	YEAR
JT	JOINT		
L			
LAT	LATTITUDE		
LB	POUND		
LP	LIGHT POLE		
LF	LINEAR FEET		

A1 ABBREVIATION LIST

PROPOSED

BUILDING WALL/EDGE	
BUILDING DOOR	
BUILDING OVERHANG	
CONTRACT LIMIT LINE (CLL)	CLL
NATURAL GAS LINE	G G G
OVERHEAD POWER/ELECTRICAL	OE OE
UNDERGROUND POWER/ELECTRICAL	UE UE
SANITARY SEWER	SAN SAN
STORM DRAIN PIPE	SD SD
DOMESTIC WATER LINE	PW PW
PROPERTY LINE	
EASEMENT LINE	
SETBACK LINE	
CENTERLINE	
FENCE	
TREE LINE	
SWALE CENTER LINE	
UNDERDRAIN	
EDGE OF WATER (POND, LAKE, STREAM)	
SILT FENCE	
INLET PROTECTION (TYPE 1, 2, 3, ETC.)	III
CHECK DAM	
ROCK DAM	ROCK DAM
TEMPORARY SEDIMENT BASIN & PIPE OUTLET	
CATCH BASIN SEDIMENT TRAP	SILT SACK
RIP/RAP OUTLET SEDIMENT TRAP	SILT SACK
FLARED END SECTION & RIP/RAP	
RIP/RAP	
REMOVALS	
PAVEMENT TO BE REMOVED/SAW-CUT LINE	
STORM DRAIN LINE TO BE REMOVED	SD SD SD
SANITARY SEWER LINE TO BE REMOVED	SS SS SS
MINOR OR INTERVAL CONTOURS	99
MAJOR CONTOURS	100
SPOT ELEVATIONS	100.00
CURB	
ASPHALT ROAD PAVEMENT	
ASPHALT DRIVE PAVEMENT	
ASPHALT PARKING PAVEMENT	
ASPHALT WALK PAVEMENT	
CONCRETE PAVEMENT	EJ
UNIT PAVERS	
UTILITY POLE	
LIGHT POLE	LP LP LP
COMMUNICATIONS/FIBER OPTIC MANHOLE/BOX	C T
ELECTRIC MANHOLE/ & VAULT	E E
UTILITY PULLBOX	E C
SANITARY SEWER MANHOLE	S
STORM DRAIN MANHOLE	D
CATCH BASIN/STORM INLET	CB SI
CURB INLET	CI
STEAM MANHOLE & VAULT	STM STM
UNDERGROUND UTILITY CLEANOUT	CO
DOMESTIC WATER MANHOLE	W
DOMESTIC WATER VALVE	WV
WATER HYDRANT	
DECIDUOUS TREE	
CONIFEROUS TREE	
SHRUBS (DECIDUOUS & CONIFEROUS)	

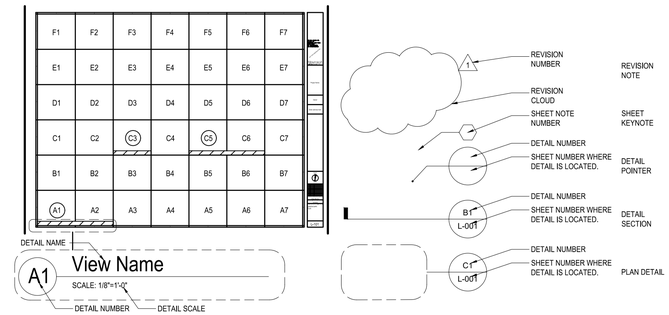
PROPOSED (CONTINUED)

PLANT TAG (SEE SCHEDULE ENTRY)	XX #
TREE TO BE REMOVED	
GROUND COVER/PERENNIAL & ANNUAL MASSINGS	
WET MEADOW	
UPLAND MEADOW	
WETLAND PLANTING	
EROSION CONTROL BLANKET	

EXISTING

BUILDING EXTERIOR WALL	
BUILDING DOOR	
BUILDING OVERHANG	
OVERHEAD COMMUNICATIONS/FIBER OPTIC/TELE	
UNDERGROUND COMMUNICATIONS/FIBER/TELE	COM COM
SANITARY SEWER	SAN SAN
NATURAL GAS LINE	G G G
OVERHEAD POWER/ELECTRICAL	OHE OHE
UNDERGROUND POWER/ELECTRICAL	UE UE
STEAM LINE	STM STM
STORM LINE	SD SD
DOMESTIC WATER	PW PW
UNIDENTIFIED UNDERGROUND UTILITIES	UID UID
PROPERTY LINE	
EASEMENT LINE	
SETBACK LINE	
CENTERLINE	
FENCE	X X X
TREE LINE (WOODS, MASSINGS, ETC.)	
SWALE CENTER LINE	
EDGE OF WATER (POND, LAKE, STREAM)	
MINOR OR INTERVAL CONTOURS	245
MAJOR CONTOURS	250
RIP/RAP	
WETLANDS	
SPOT ELEVATION	255.65 255.65 255.65
SURVEY MONUMENT/BENCHMARK	
BORE OR CORE HOLE	
UTILITY POLE	
LIGHT POLE	LP
COMMUNICATIONS/FIBER OPTIC MANHOLE/BOX	C T
ELECTRIC MANHOLE/ & VAULT	E E
UTILITY PULLBOX	E C
SANITARY SEWER MANHOLE	S
STORM DRAIN MANHOLE	D
CATCH BASIN/STORM INLET	CB SI
CURB INLET	CI
STEAM MANHOLE & VAULT	STM STM
CLEANOUT	CO
DOMESTIC WATER MANHOLE	W
DOMESTIC WATER VALVE	WV
FIRE HYDRANT	
TREE	
SHRUBS (DECIDUOUS & CONIFEROUS)	

A2 GRAPHIC SYMBOL LEGEND
NTS



C4 VIEW CALLOUT LEGEND
SCALE: NOT TO SCALE

1. DRAWINGS ARE BASED ON A SURVEY PROVIDED BY SHUMAKER CONSULTING ENGINEERING & LAND SURVEYING, TITLED "ST. ALBANS DEPARTMENT OF VETERAN AFFAIRS TOPOGRAPHIC SURVEY" DATED NOV 2017. BENCHMARKS ARE NOTED ON SURVEY.
2. LOCATIONS OF THE UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WERE OBTAINED BY FIELD MEASUREMENTS WHERE POSSIBLE. OTHERWISE, THEY WERE OBTAINED FROM OTHER SOURCES AND MAY BE APPROXIMATE ONLY. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST, BUT THEIR LOCATIONS ARE PRESENTLY UNKNOWN. FIELD LOCATE PRIOR TO EXCAVATION AND REPAIR ANY DAMAGE FROM CONSTRUCTION ACTIVITIES.
3. NOTIFY NEW YORK 811 (1.800.524.7603) AND THE OWNER'S REPRESENTATIVE 72 HOURS PRIOR TO EXCAVATION.
4. OBTAIN LANDSCAPE ARCHITECT'S REVIEW OF LAYOUT AND GRADING BEFORE PROCEEDING WITH CONSTRUCTION.
5. COMPLY WITH ALL REQUIREMENTS OF GOVERNMENT AGENCIES HAVING JURISDICTION OF ADJOINING ROADWAYS RELATIVE TO MAINTENANCE AND PROTECTION OF TRAFFIC. ALL WORK WITHIN ROAD RIGHT-OF-WAYS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. OBTAIN ALL PERMITS REQUIRED FROM AUTHORITIES HAVING JURISDICTION INCLUDING PAYMENT OF FEES AND PERFORMANCE BONDS.
6. TREES TO BE PROTECTED SHALL BE IDENTIFIED PRIOR TO THE START OF CONSTRUCTION. UTILIZE CONSTRUCTION FENCING AS SHOWN AND/OR OTHERWISE NECESSARY TO PROTECT TREE ROOTS. AVOID HEAVY CONSTRUCTION VEHICLE TRAFFIC OVER TREE ROOTS WITHIN THE DRIP LINES.
7. ADJUST ALL EXISTING MANHOLES AND CATCH BASIN RIMS, WATER VALVE COVERS, AND OTHER UTILITIES WHERE ENCOUNTERED, TO MEET NEW LINE AND GRADE OF FINISHED LAWN OR PAVEMENTS.
8. SAW-CUT ALL EXISTING PAVEMENTS AT LIMITS OF REMOVAL TO FORM A CLEAN STRAIGHT EDGE TO WHICH NEW PAVEMENTS, LAWN OR PLANT BEDS WILL ABUT.
9. SAW-CUT EXISTING CONCRETE PAVEMENTS AT NEAREST CONTROL JOINT TO LIMITS OF REMOVAL AND REPLACE CONCRETE PAVEMENTS IN FULL FLAGS.
10. REPAIR ALL EXISTING PAVEMENT WHERE DAMAGED AND/OR DISTURBED BY THE WORK OF THE CONTRACT AT NO COST TO THE OWNER. REPAIRS SHALL BE MADE WITH LIKE MATERIALS OF EQUAL QUALITY AND TO THE EXISTING PAVEMENT SECTION DEPTH WITH LIKE MATERIALS UNLESS OTHERWISE NOTED. THE AREA OF REPAIR SHALL BE NOT LESS THAN 10' BY 10' UNLESS APPROVED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
11. REPAIR ALL EXISTING LAWN AREAS DAMAGED AND/OR DISTURBED BY WORK OF THIS CONTRACT. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE MATERIALS AND METHODS DESCRIBED IN DIVISION 32 TURF AND GRASSES OF THE CONTRACT SPECIFICATIONS OR AS INDICATED ON THE PLANS AND DETAILS.
12. INSTALL 6" (SETTLED DEPTH) TOPSOIL AND ESTABLISH LAWN IN ALL AREAS WITHIN THE CONTRACT LIMITS NOT DESIGNATED FOR OTHER SURFACES. REPAIR ALL OTHER AREAS DISTURBED BY CONSTRUCTION.
13. ALL CONSTRUCTION IN THE CITY RIGHT OF WAY TO BE PER CITY STANDARD DETAILS & SPECIFICATIONS.
14. ALL PAVEMENT STRIPING DAMAGED TO BE REPLACED/RESTRIPED TO MATCH EXISTING.

B4 GENERAL NOTES

1. EMPLOY EROSION CONTROL MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS AND OTHERWISE NECESSARY TO PREVENT DAMAGE TO ON-SITE FACILITIES AND ADJOINING PROPERTY. ALL MEASURES SHALL BE INSTALLED AND MAINTAINED IN CONFORMANCE WITH THE NEW YORK STATE DEC REGULATIONS INCLUDING THE STANDARDS AND SPECIFICATIONS FOR EROSION & SEDIMENTATION CONTROLS MANUAL, (THE BLUE BOOK, JULY 2016 OR LATEST VERSION).
2. INSPECT AND MAINTAIN ALL EROSION CONTROL FACILITIES ON A DAILY BASIS AND IMMEDIATELY AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO:
   - A) REPLACEMENT OR REPAIR OF DAMAGED SILT FENCE
   - B) REMOVAL OF SEDIMENT FROM ALL MEASURES SUCH THAT THEY REMAIN IN COMPLIANCE WITH THE LATEST EDITION OF THE NYSDEC BLUE BOOK.
   - C) INLET PROTECTION DEVICES & MEASURES
   - D) ASSURANCE OF GOOD GRASS GROWTH.
   - E) CONSTRUCTION ACCESS ROADS
3. GRADE THE SITE AND EMPLOY MEASURES TO DIRECT ALL STORM WATER RUNOFF TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
4. CLEAN PAVED ROADWAYS DURING CONSTRUCTION TO PREVENT SEDIMENT TRACKING ONTO PUBLIC ROADS.
5. STABILIZE ALL DRAINAGE OUTLETS AS SHOWN BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
6. APPLY WATER OR A DUST PALLIATIVE TO MINIMIZE DUST AND EMPLOY MEASURES TO MINIMIZE OTHER CONSTRUCTION NUISANCES THROUGHOUT THE COURSE OF THE PROJECT PER THE CONTRACT SPECIFICATIONS.
7. REMOVE NO MORE VEGETATIVE COVER THAN IS NECESSARY FOR IMMEDIATE GRADING ACTIVITIES. ALL NEWLY DISTURBED AREAS NOT ACTIVELY UNDER CONSTRUCTION MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN ONE WEEKS (7 CALENDAR DAYS) USING THE SPECIFIED SEED MIX AT SPECIFIED RATE.

A4 EROSION CONTROL NOTES

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US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

OPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

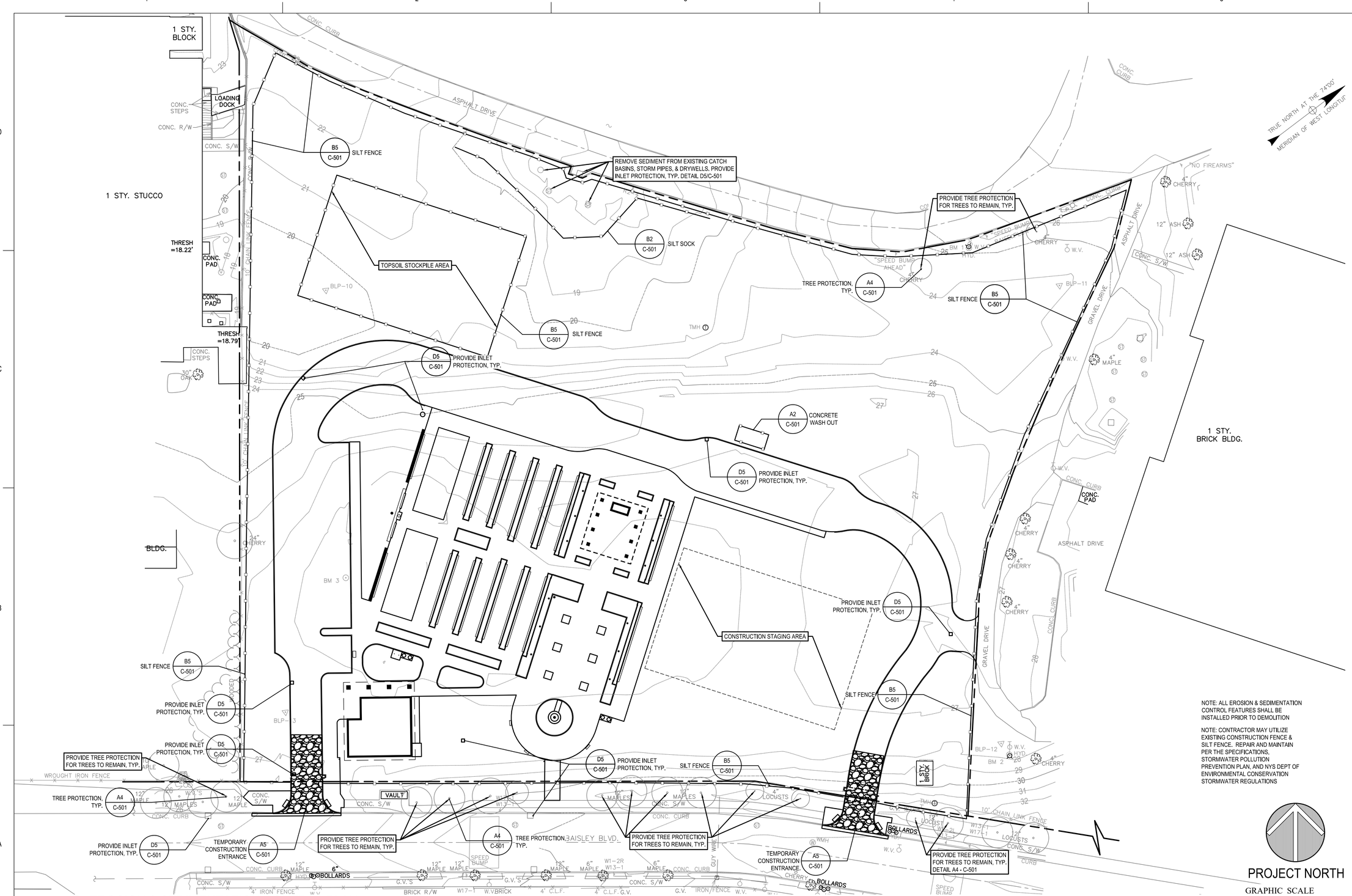
DESIGNED BY: OPK Design		DATE: 04/30/19	
DWN BY: MD	CKD BY: DH	SOLICITATION NO.:	
SUBMITTED BY:		CONTRACT NO.:	
PLOT SCALE:		PLOT DATE:	FILE NUMBER: 217155.00
SIZE: 22" x 34"		FILE NAME:	

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

GENERAL INFORMATION

C-001

CD-2 SUBMISSION



A1 EROSION & SEDIMENTATION CONTROL PLAN
1" = 30

NOTE: ALL EROSION & SEDIMENTATION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO DEMOLITION

NOTE: CONTRACTOR MAY UTILIZE EXISTING CONSTRUCTION FENCE & SILT FENCE. REPAIR AND MAINTAIN PER THE SPECIFICATIONS, STORMWATER POLLUTION PREVENTION PLAN, AND NYS DEPT OF ENVIRONMENTAL CONSERVATION STORMWATER REGULATIONS

WARNING: THIS DOCUMENT MAY CONTAIN SENSITIVE SECURITY INFORMATION AND THEREFORE MUST BE TREATED AS A CONFIDENTIAL DOCUMENT. THE INFORMATION CONTAINED IN THIS DOCUMENT MUST BE MAINTAINED IN A CONFIDENTIAL MANNER TO PREVENT COMPROMISING HOMELAND SECURITY AS PROVIDED IN SECTION 214 OF THE HOMELAND SECURITY ACT OF 2002. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED, RELEASED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE UNITED STATES ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT (USACE - NYD). UNAUTHORIZED REPRODUCTION, RELEASE OR DISTRIBUTION MAY RESULT IN CIVIL PENALTY OR OTHER ACTION BY USACE-NYD.

US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: OPK Design
DWN BY: MD
CKD BY: DH
SUBMITTED BY:
PLOT SCALE:
PLOT DATE:
FILE NAME:
SIZE: 22" x 34"
DATE: 04/30/19
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: 217155.00

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

OPK DESIGN
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ST ALBANS, QUEENS, NY

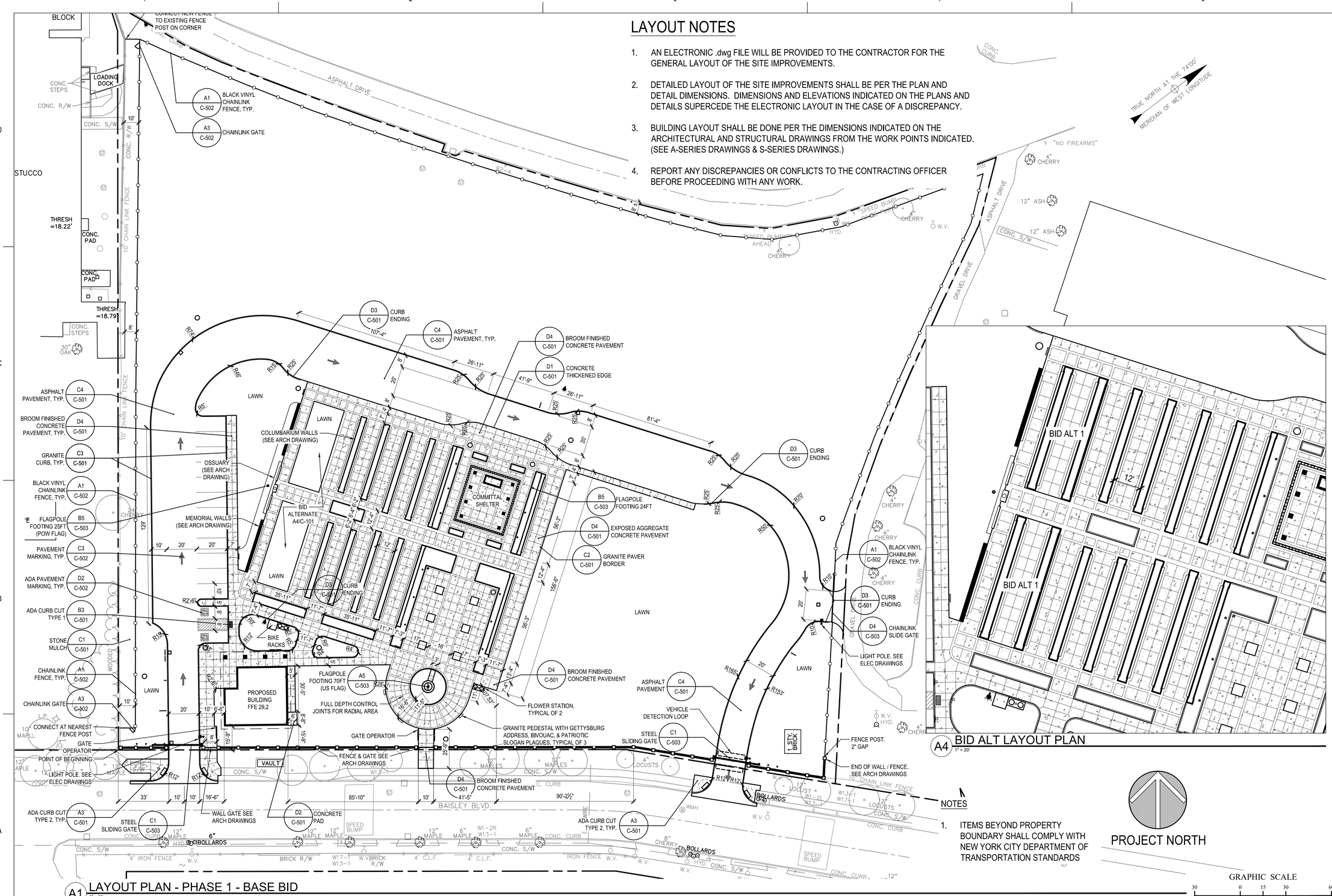
EROSION & SEDIMENTATION CONTROL PLAN

CD-2 SUBMISSION

CD-102

LAYOUT NOTES

1. AN ELECTRONIC .dwg FILE WILL BE PROVIDED TO THE CONTRACTOR FOR THE GENERAL LAYOUT OF THE SITE IMPROVEMENTS.
2. DETAILED LAYOUT OF THE SITE IMPROVEMENTS SHALL BE PER THE PLAN AND DETAIL DIMENSIONS. DIMENSIONS AND ELEVATIONS INDICATED ON THE PLANS AND DETAILS SUPERCEDE THE ELECTRONIC LAYOUT IN THE CASE OF A DISCREPANCY.
3. BUILDING LAYOUT SHALL BE DONE PER THE DIMENSIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FROM THE WORK POINTS INDICATED. (SEE A-SERIES DRAWINGS & S-SERIES DRAWINGS.)
4. REPORT ANY DISCREPANCIES OR CONFLICTS TO THE CONTRACTING OFFICER BEFORE PROCEEDING WITH ANY WORK.



A1 LAYOUT PLAN - PHASE 1 - BASE BID
1" = 30

A4 BID ALT LAYOUT PLAN
1" = 20'

NOTES

1. ITEMS BEYOND PROPERTY BOUNDARY SHALL COMPLY WITH NEW YORK CITY DEPARTMENT OF TRANSPORTATION STANDARDS

PROJECT NORTH

GRAPHIC SCALE
30 0 15 30 60
SCALE IN FEET

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DWN BY: MD | CKD BY: DH | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.:
PLOT SCALE: | PLOT DATE: | FILE NUMBER: 217155.00
SIZE: 22" x 34" | FILE NAME:

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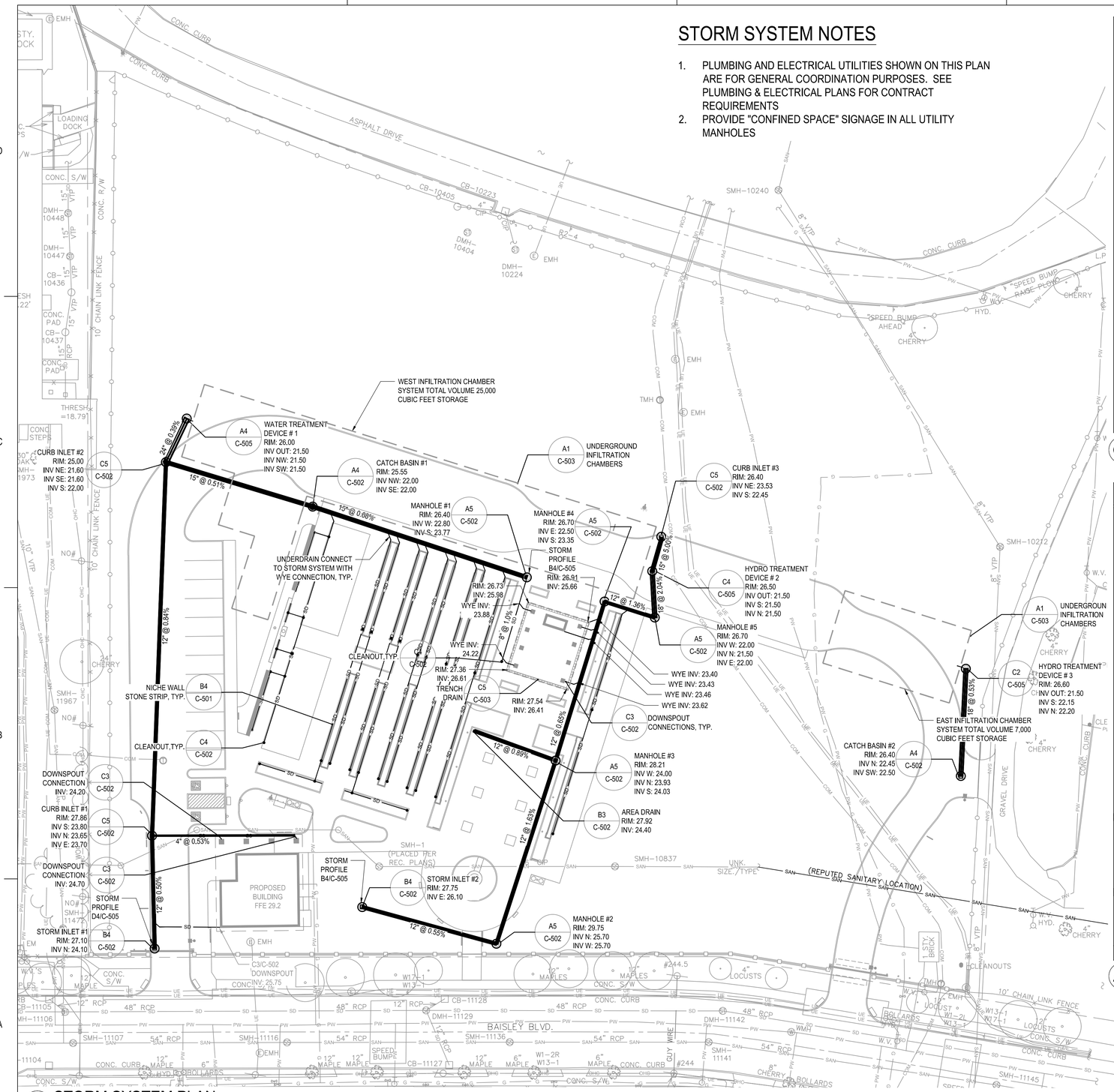
LAYOUT PLAN

C-101

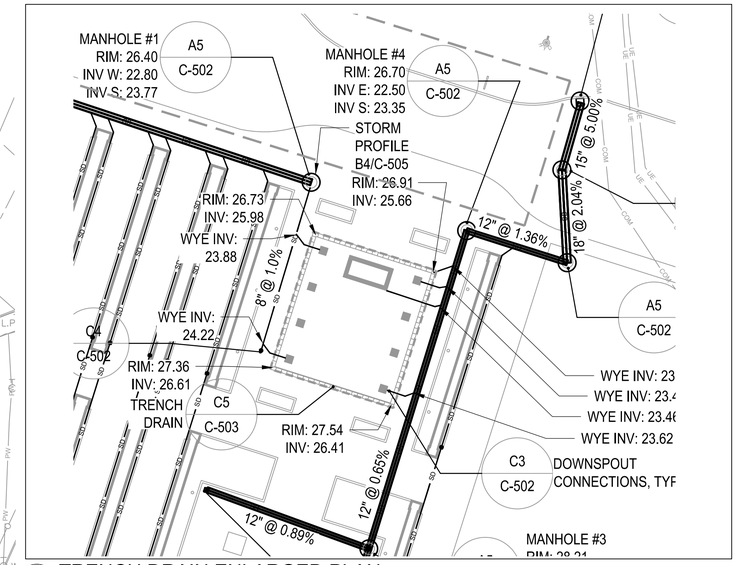
CD-2 SUBMISSION

STORM SYSTEM NOTES

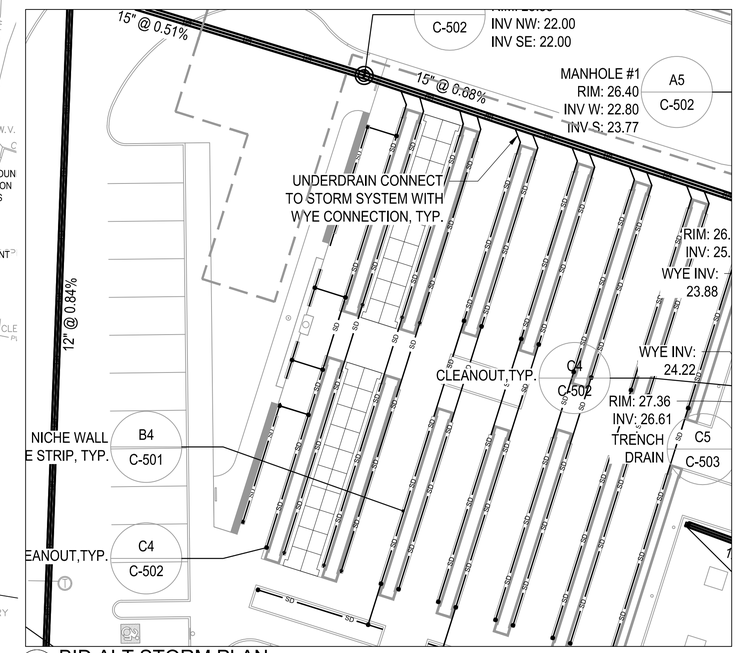
1. PLUMBING AND ELECTRICAL UTILITIES SHOWN ON THIS PLAN ARE FOR GENERAL COORDINATION PURPOSES. SEE PLUMBING & ELECTRICAL PLANS FOR CONTRACT REQUIREMENTS
2. PROVIDE "CONFINED SPACE" SIGNAGE IN ALL UTILITY MANHOLES



A1 STORM SYSTEM PLAN
1" = 30



C4 TRENCH DRAIN ENLARGED PLAN
1" = 20'



A4 BID ALT STORM PLAN
1" = 20'

PROJECT NORTH

GRAPHIC SCALE
30 0 15 30 60
SCALE IN FEET

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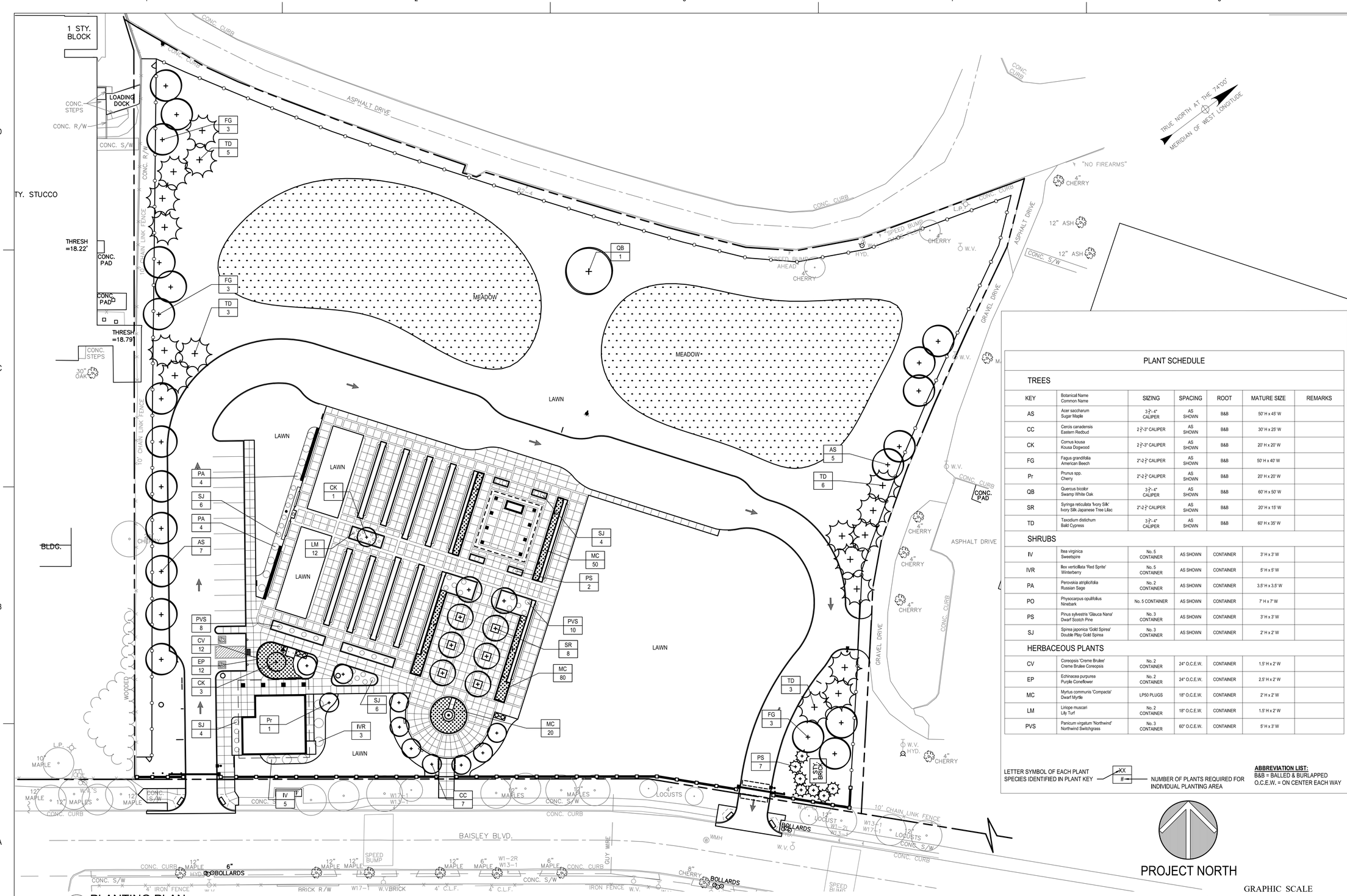
STORM SYSTEM PLAN

C-103

CD-2 SUBMISSION



A1 PLANTING PLAN
1" = 30

PLANT SCHEDULE

TREES

KEY	Botanical Name / Common Name	SIZING	SPACING	ROOT	MATURE SIZE	REMARKS
AS	Acer saccharum / Sugar Maple	3½"-4" CALIPER	AS SHOWN	B&B	50' H x 45' W	
CC	Cercis canadensis / Eastern Redbud	2½"-3" CALIPER	AS SHOWN	B&B	30' H x 25' W	
CK	Cornus kousa / Kousa Dogwood	2½"-3" CALIPER	AS SHOWN	B&B	20' H x 20' W	
FG	Fagus grandifolia / American Beech	2"-2½" CALIPER	AS SHOWN	B&B	50' H x 40' W	
Pr	Prunus spp. / Cherry	2"-2½" CALIPER	AS SHOWN	B&B	20' H x 20' W	
QB	Quercus bicolor / Swamp White Oak	3½"-4" CALIPER	AS SHOWN	B&B	60' H x 50' W	
SR	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	2"-2½" CALIPER	AS SHOWN	B&B	20' H x 15' W	
TD	Taxodium distichum / Bald Cypress	3½"-4" CALIPER	AS SHOWN	B&B	60' H x 35' W	

SHRUBS

KEY	Botanical Name / Common Name	SIZING	SPACING	ROOT	MATURE SIZE	REMARKS
IV	Itea virginica / Sweetspire	No. 5 CONTAINER	AS SHOWN	CONTAINER	3' H x 3' W	
IVR	Ilex verticillata 'Red Sprite' / Winterberry	No. 5 CONTAINER	AS SHOWN	CONTAINER	5' H x 5' W	
PA	Perovskia atriplicifolia / Russian Sage	No. 2 CONTAINER	AS SHOWN	CONTAINER	3.5' H x 3.5' W	
PO	Physocarpus opulifolius / Ninebark	No. 5 CONTAINER	AS SHOWN	CONTAINER	7' H x 7' W	
PS	Pinus sylvestris 'Glauca Nana' / Dwarf Scotch Pine	No. 3 CONTAINER	AS SHOWN	CONTAINER	3' H x 3' W	
SJ	Spirea japonica 'Gold Spirea' / Double Play Gold Spirea	No. 3 CONTAINER	AS SHOWN	CONTAINER	2' H x 2' W	

HERBACEOUS PLANTS

KEY	Botanical Name / Common Name	SIZING	SPACING	ROOT	MATURE SIZE	REMARKS
CV	Coreopsis 'Creme Brulee' / Creme Brulee Coreopsis	No. 2 CONTAINER	24" O.C.E.W.	CONTAINER	1.5' H x 2' W	
EP	Echinacea purpurea / Purple Coneflower	No. 2 CONTAINER	24" O.C.E.W.	CONTAINER	2.5' H x 2' W	
MC	Myrtus communis 'Compacta' / Dwarf Myrtle	LP50 PLUGS	18" O.C.E.W.	CONTAINER	2' H x 2' W	
LM	Liriope muscari / Lily Turf	No. 2 CONTAINER	18" O.C.E.W.	CONTAINER	1.5' H x 2' W	
PVS	Panicum virgatum 'Northwind' / Northwind Switchgrass	No. 3 CONTAINER	60" O.C.E.W.	CONTAINER	5' H x 3' W	

LETTER SYMBOL OF EACH PLANT SPECIES IDENTIFIED IN PLANT KEY — XX / # — NUMBER OF PLANTS REQUIRED FOR INDIVIDUAL PLANTING AREA

ABBREVIATION LIST:
B&B = BALLED & BURLAPPED
O.C.E.W. = ON CENTER EACH WAY

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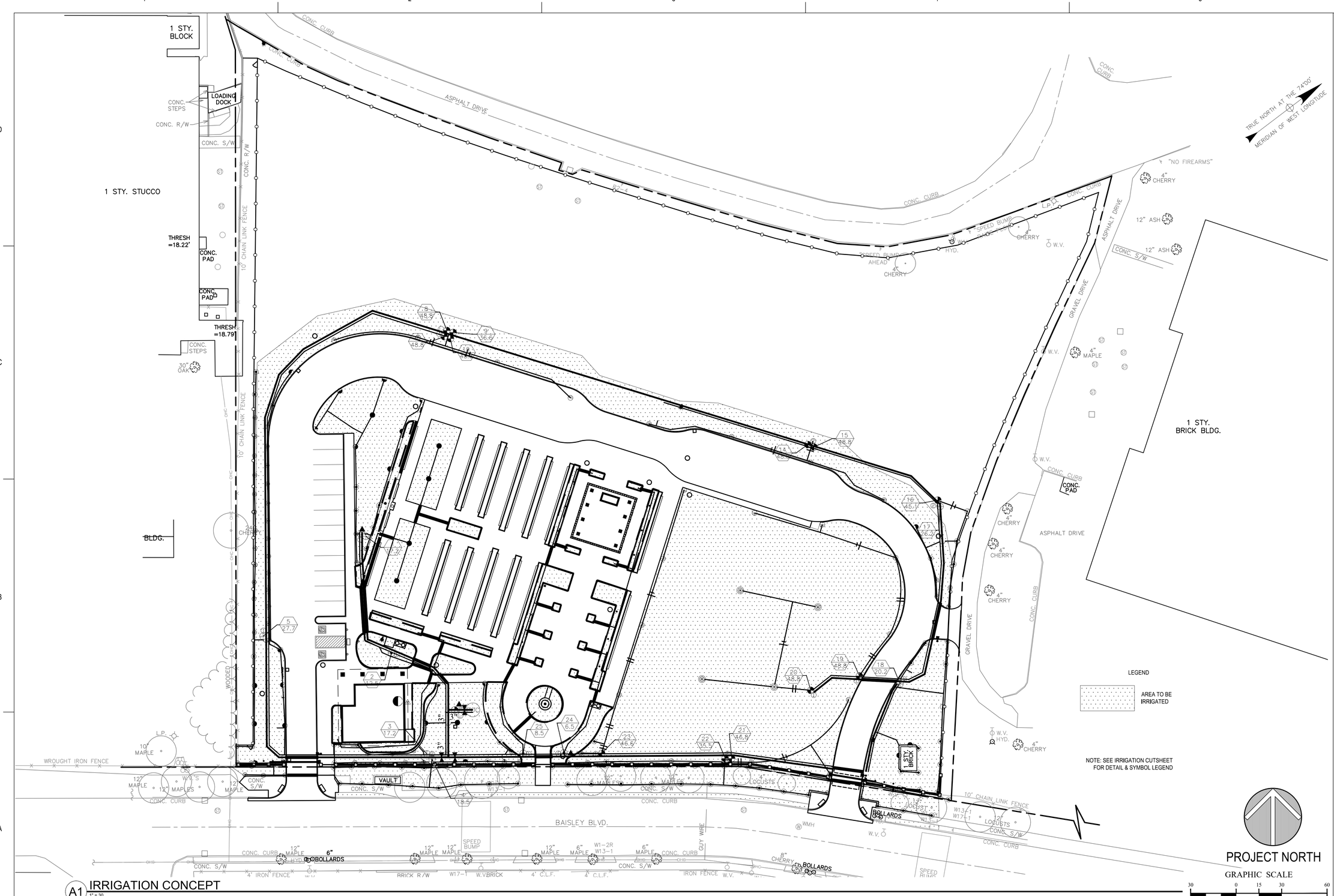
PLANTING PLAN

C-104

CD-2 SUBMISSION



A1 IRRIGATION CONCEPT
1" = 30

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SIZE: 22" x 34"	FILE NAME:		

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ST ALBANS, QUEENS, NY

IRRIGATION PLAN

C-105

CD-2 SUBMISSION

GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
7. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BARRIER/SHADOW VEHICLES

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

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STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

APPROVED SEPTEMBER 18, 2008 | ISSUED UNDER EB 08-036
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY
619-10

EFFECTIVE DATE: 01/08/09

TABLE NY1-A
BARRIER VEHICLE USE REQUIREMENTS
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION[1]	USE REQUIREMENTS[4,5] FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT) ≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED[3]	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]	OPTIONAL[2]

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRANSVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.
4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE6C-2) SHALL BE PROVIDED.

TABLE NY1-B
SHADOW VEHICLE USE REQUIREMENTS
(MOBILE CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT) ≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
2. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.
4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE INCREASED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.

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TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) (FT.)
(40 MPH) OR LESS	$L = WS^2/60$
(45 MPH) OR MORE	L = WS

L = TAPER LENGTH
W = WIDTH OF OFFSET (FT.)
S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

STANDARD TAPER LENGTHS

LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED SPEED LIMIT (25 MPH)	(30 MPH)	(35 MPH)	(40 MPH)	(45 MPH)	(50 MPH)	(55 MPH)	(60 MPH)	(65 MPH)	(70 MPH)
4	45	60	85	110	180	200	220	240	260	280
5	55	75	105	135	225	250	275	300	325	350
6	65	90	125	160	270	300	330	360	390	420
7	75	105	145	190	315	350	385	420	455	490
8	85	120	165	215	360	400	440	480	520	560
9	95	135	185	240	405	450	495	540	585	630
10	105	150	205	270	450	500	550	600	650	700
11	115	165	225	295	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840

TABLE 6C-3
TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT. MAXIMUM
DOWNSTREAM TAPER	100 FT. PER LANE

TABLE 6C-2
LONGITUDINAL BUFFER SPACE

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE
25	155 FT.
30	200 FT.
35	250 FT.
40	305 FT.
45	360 FT.
50	425 FT.
55	495 FT.
60	570 FT.
65	645 FT.

TABLE 619-4
FLARE RATES FOR POSITIVE BARRIER

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT 30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY CONCRETE BARRIER	8:1	11:1	14:1	16:1	20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	9:1	11:1	12:1	15:1

TABLE NY2-A
PLACEMENT DISTANCE FOR BARRIER VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.) BARRIER VEHICLES• (18000 LBS.) MINIMUM	(18000 LBS.) MAXIMUM	(24000 LBS.) MINIMUM	(24000 LBS.) MAXIMUM
> 55	100 FT.	200 FT.	100 FT.	200 FT.
45 - 55	100 FT.	200 FT.	85 FT.	165 FT.
< 45	85 FT.	165 FT.	50 FT.	100 FT.

• AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:

BARRIER VEHICLE - VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B
PLACEMENT DISTANCE FOR SHADOW VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.) SHADOW VEHICLES•• (18000 LBS.) MINIMUM	(18000 LBS.) MAXIMUM	(24000 LBS.) MINIMUM	(24000 LBS.) MAXIMUM
> 55	230 FT.	330 FT.	180 FT.	280 FT.
45 - 55	180 FT.	280 FT.	150 FT.	250 FT.
< 45	100 FT.	200 FT.	100 FT.	200 FT.

• AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:

SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY6H-3
ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS A (FT.)	B (FT.)	C (FT.)	SIGN LEGEND XX	YY
URBAN (≤ 30 MPH•)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH•)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH•)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	½ MILE

• PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: (MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) SIDEWALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS, DRIVEWAY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARACTERISTICS.

EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (PVMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

WORK DURATION DEFINITIONS

LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.

INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.

SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
LEGENDS AND NOTES

APPROVED SEPTEMBER 18, 2008 | ISSUED UNDER EB 08-036
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY
619-11

EFFECTIVE DATE: 01/08/09

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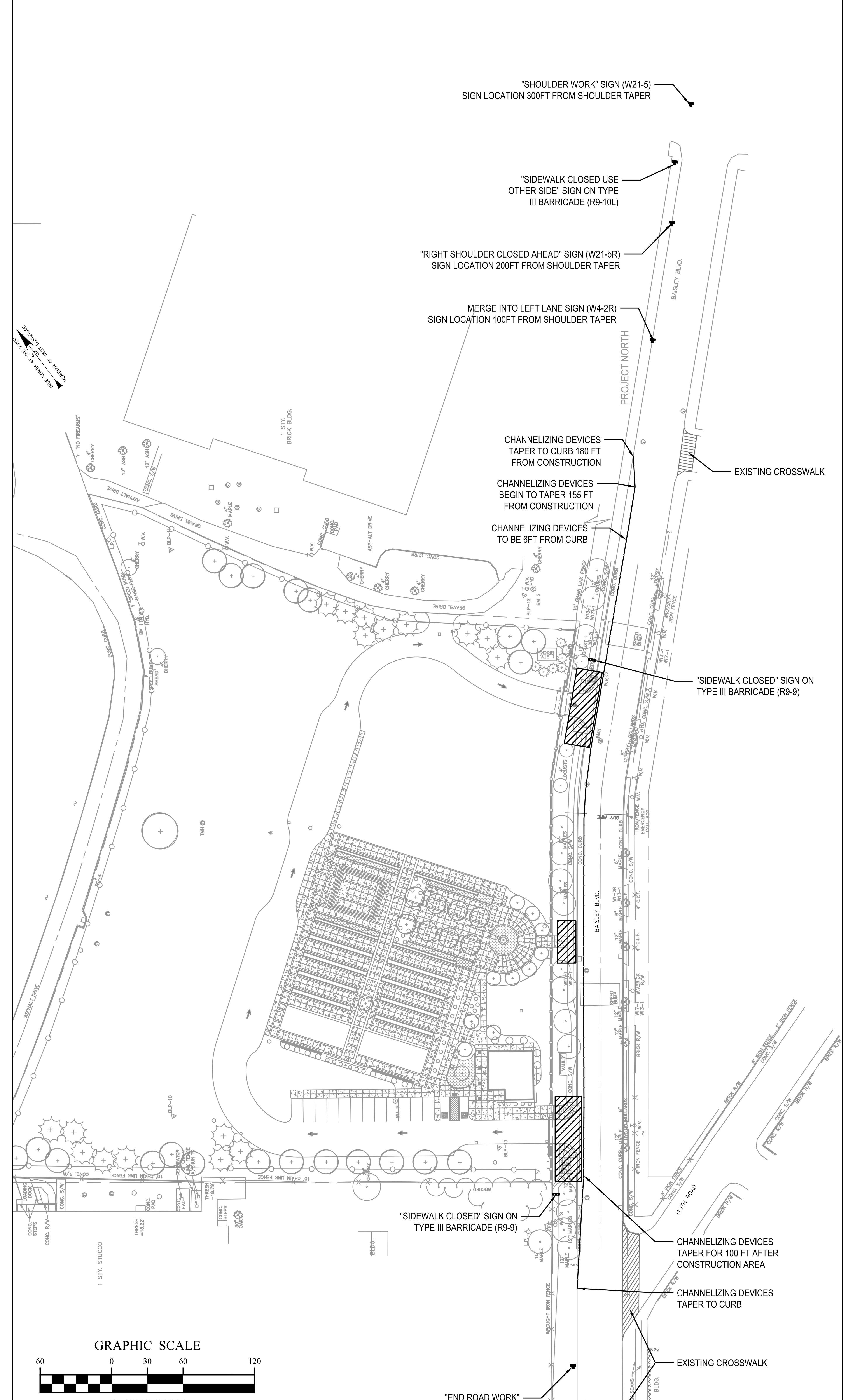


A4 WORK ZONE TRAFFIC CONTROL PLAN
1" = 60

US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: QPK Design | DATE: 04/30/19
DWN BY: MD | CKD BY: DH | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.:
PLOT SCALE: | PLOT DATE: | FILE NUMBER: 217155.00
SIZE: 22" x 34" | FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

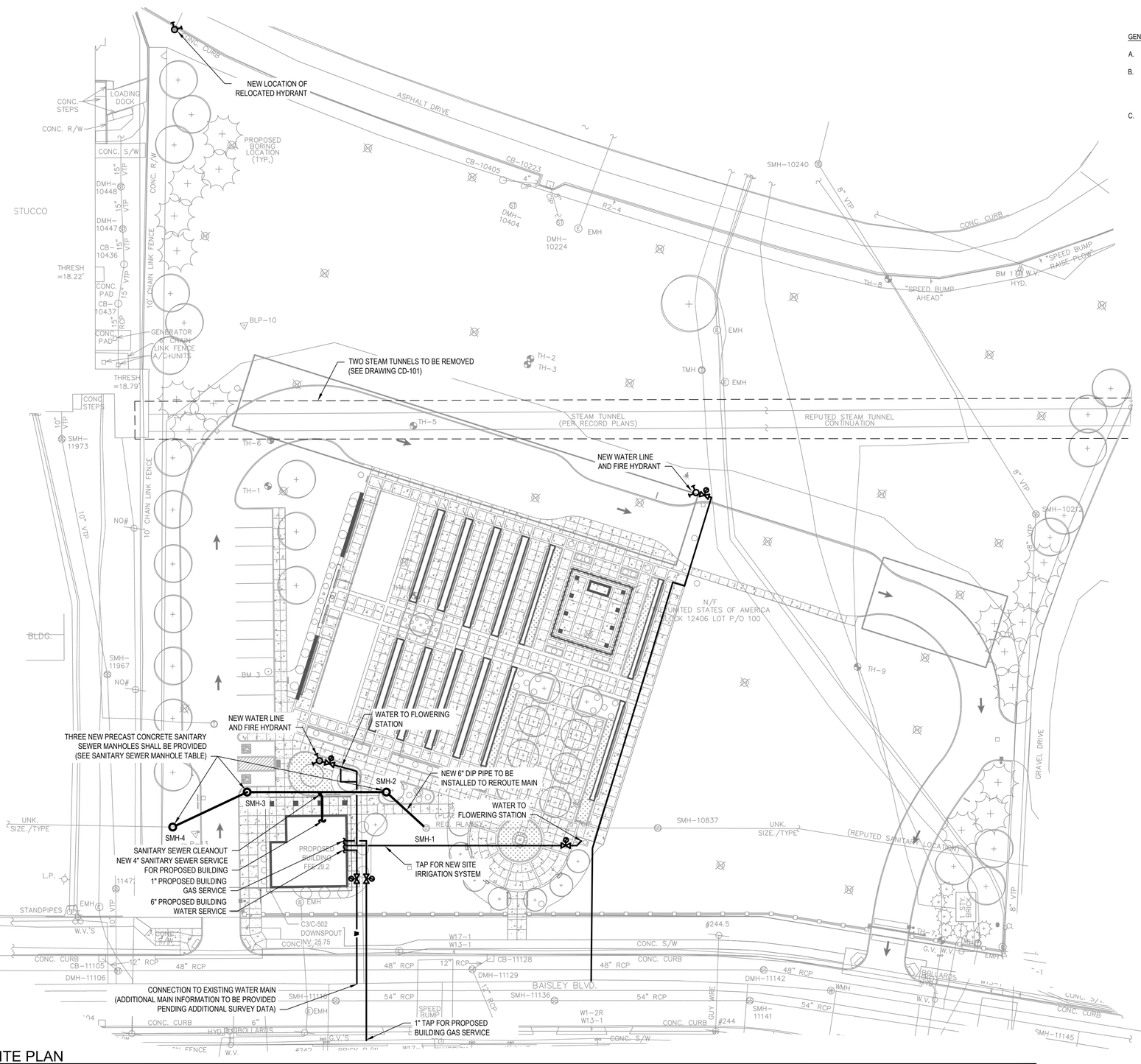
WORK ZONE TRAFFIC CONTROL PLAN

C-108

CD-2 SUBMISSION

LEGEND

- MULTI-POST SIGN
- SIGN
- DECIDUOUS TREE
- CONIFEROUS TREE
- UNKNOWN VENT
- UNKNOWN VALVE
- UNKNOWN MANHOLE
- ELECTRIC MANHOLE
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- GAS MANHOLE
- GAS VALVE
- SANITARY MANHOLE
- DRAINAGE MANHOLE
- ROUND CATCH BASIN
- SQUARE CATCH BASIN
- DRAINAGE INVERT
- CABLE RISER
- TELEPHONE MANHOLE
- LIGHT POLE
- BORING STAKEOUT
- TEST HOLE
- BASELINE POINT
- BENCHMARK
- PROPERTY MONUMENT
- PROPERTY LINE
- UNDERGROUND STORM
- UNDERGROUND SANITARY
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND STEAM
- UNDERGROUND GAS
- UNDERGROUND WATER
- UNKNOWN UNDERGROUND
- MAJOR CONTOUR
- REMOVALS
- NEW WORK



A1 SITE PLAN
1" = 30'

GENERAL NOTES:

A. ALL NEW UTILITIES TO BE PROVIDED WITH A MINIMUM COVER OF 48".

B. ADDITIONAL SURVEY SHALL BE CONDUCTED PRIOR TO CONSTRUCTION TO DETERMINE THE DEPTHS OF ALL UTILITIES INCLUDING ALL NATURAL GAS, ELECTRICAL, COMMUNICATION AND TELEPHONE LINES ROUTING TO OR THROUGH THE SITE.

C. DEPTHS OF ALL UTILITIES MUST BE ASSESSED TO IDENTIFY ANY CONFLICTS WITH NEW UTILITIES (I.E. STORMWATER BASINS)

0 30' 60'

NORTH

NOT FOR CONSTRUCTION

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US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS NY 11412

QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

DESIGNED BY: TMT | DATE: 04/30/19
DWN BY: TMT | CKD BY: RTK | SOLICITATION NO.:
SUBMITTED BY: GHD Consulting Services Inc. | CONTRACT NO.: W912DS-14-D-0002
PLOT SCALE: As shown | PLOT DATE: | FILE NUMBER: 217280
SIZE: 24"x27" | FILE NAME:

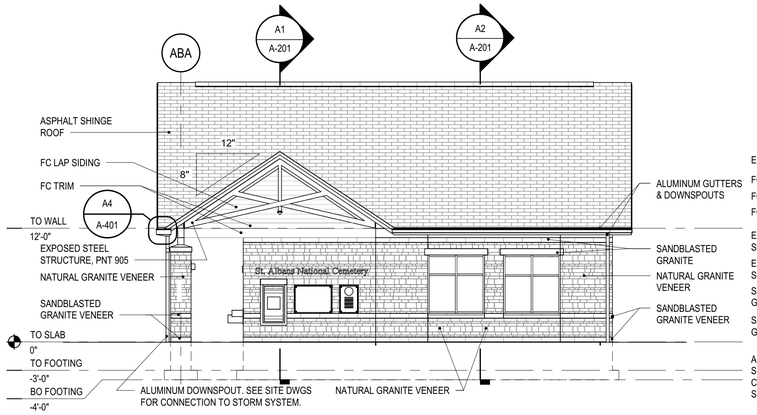
ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST. ALBANS, QUEENS, NY 11412

SITE UTILITY PLAN

CS-101

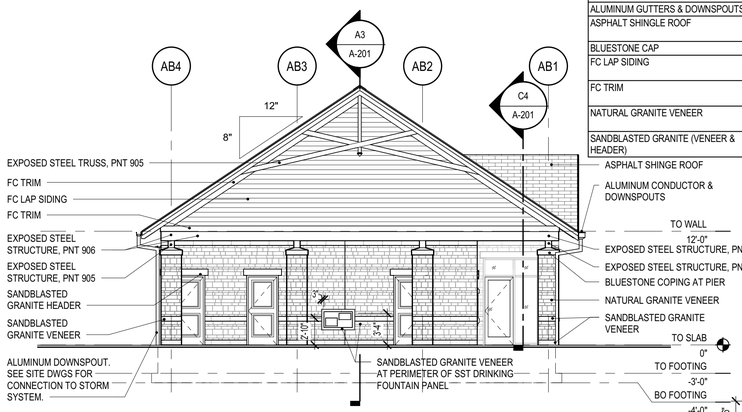
CD-2 SUBMISSION

EXTERIOR FINISH SCHEDULE	
MATERIAL	COMMENTS
ALUMINUM GUTTERS & DOWNSPOUTS	FACTORY FINISH TO MATCH HARDIE COLOR: NIGHT GRAY
ASPHALT SHINGLE ROOF	CERTAINTEED CORP MAX ARCHITECTURAL SHINGLE, COLOR: DEF MOIRE BLACK
BLUESTONE CAP	EQUINUNK BLUESTONE (THERMAL FINISH)
FC LAP SIDING	HARDIE PLANK LAP SIDING, 7" EXPOSURE, FINISH: SMOOTH, COLOR: NIGHT GRAY
FC TRIM	HARDIE TRIM BOARDS, FINISH:SMOOTH, COLOR: MONTEREY TAUPE
NATURAL GRANITE VENEER	CHAMPLAIN STONE, CORINTHIAN GRANITE, FINISH: NATURAL SPLITFACE
SANDBLASTED GRANITE (VENEER & HEADER)	CHAMPLAIN STONE, CORINTHIAN GRANITE, FINISH: SANDBLASTED SPLITFACE



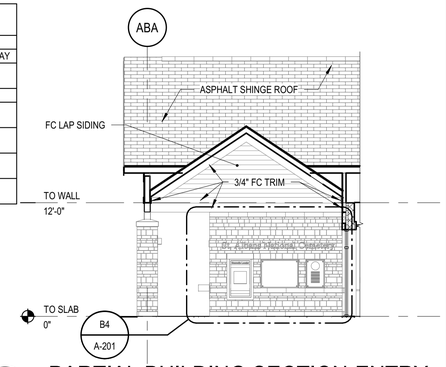
C1 ELEVATION-WEST

SCALE: 1/8" = 1'-0"



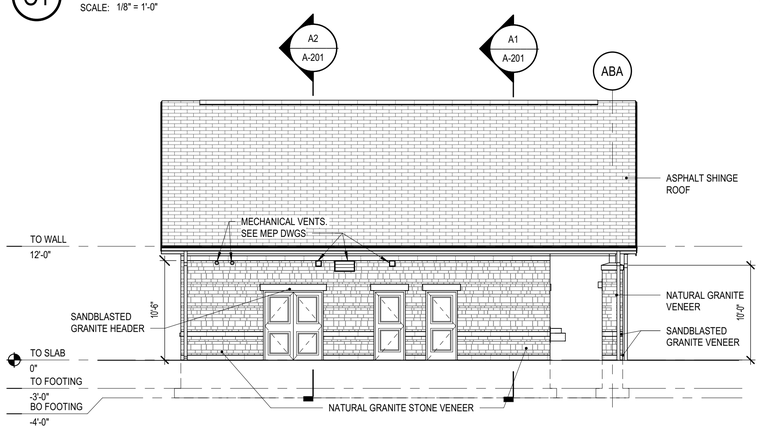
C2 ELEVATION-NORTH

SCALE: 1/8" = 1'-0"



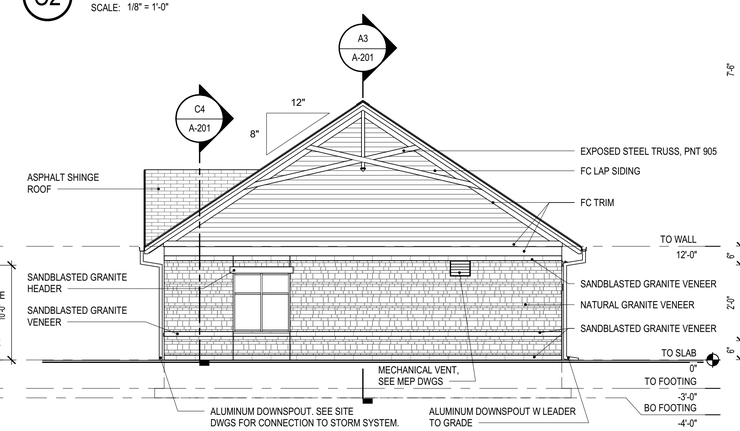
C4 PARTIAL BUILDING SECTION-ENTRY

SCALE: 1/8" = 1'-0"



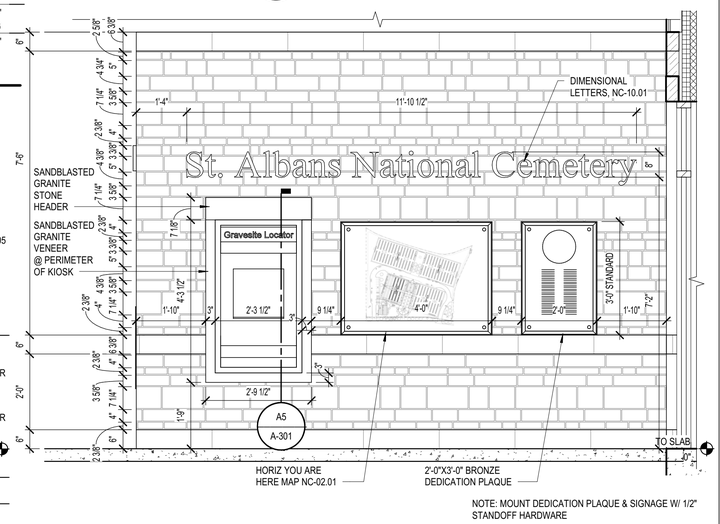
B1 ELEVATION-EAST

SCALE: 1/8" = 1'-0"



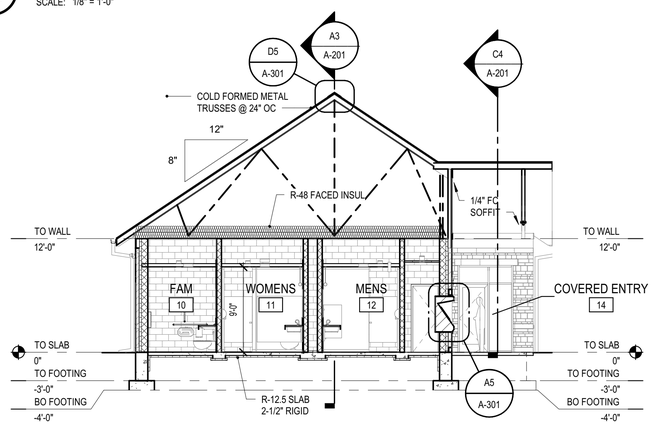
B2 ELEVATION-SOUTH

SCALE: 1/8" = 1'-0"



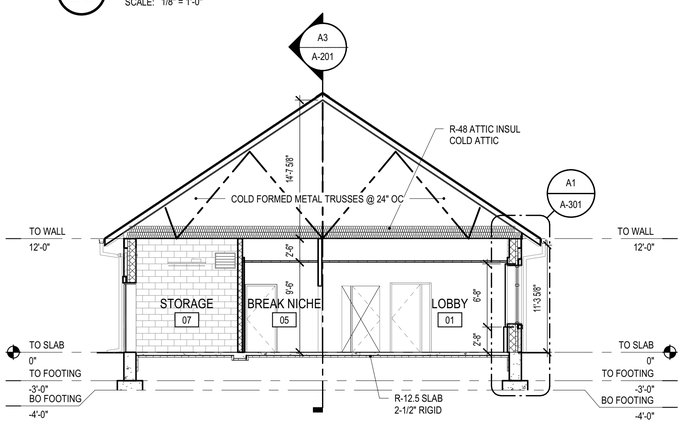
B4 ENLARGED ELEVATION - ENTRY LOCATION

SCALE: 1/2" = 1'-0"



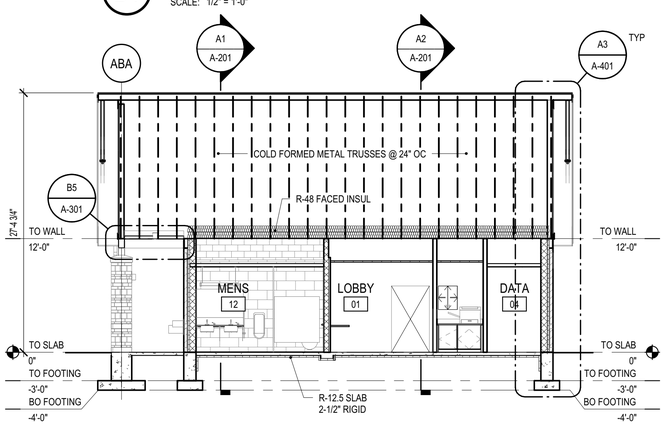
A1 BUILDING SECTION - EAST / WEST #1

SCALE: 1/8" = 1'-0"



A2 BUILDING SECTION - EAST / WEST #2

SCALE: 1/8" = 1'-0"



A3 BUILDING SECTION - NORTH / SOUTH

SCALE: 1/8" = 1'-0"

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US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

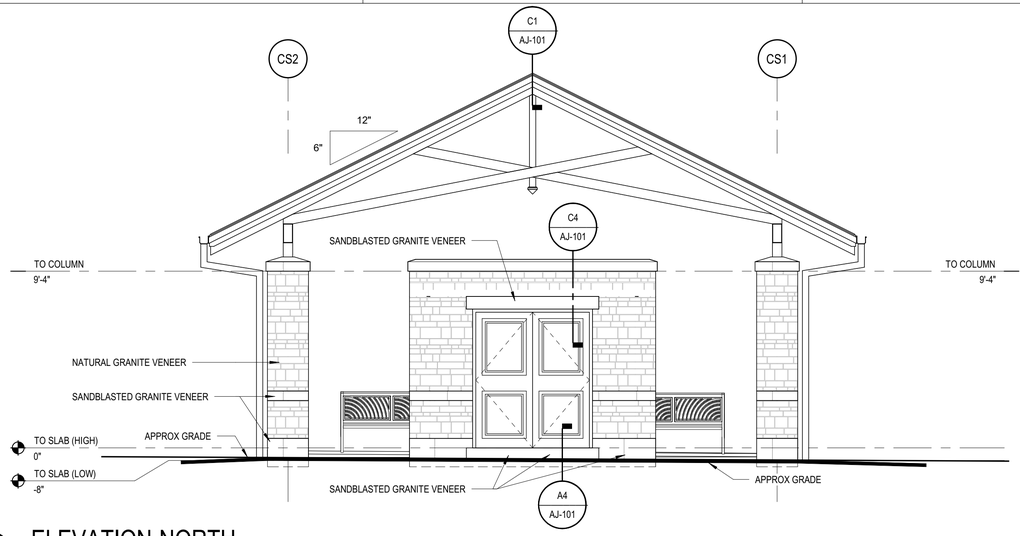
DESIGNED BY: Designer | DATE: 04/30/19
DWN BY: Author | CKD BY: Checker | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.:
PLOT SCALE: As indicated | PLOT DATE: 4/30/2019 | FILE NUMBER: 217000.00
SIZE: | FILE NAME:

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

ADMINISTRATION BUILDING-SECTIONS & ELEVATIONS

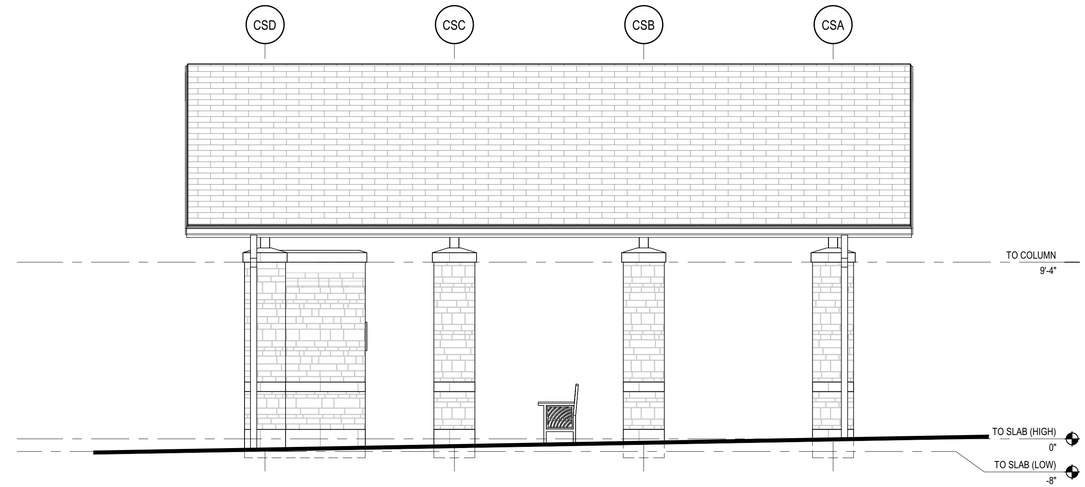
A-201

CD-2 SUBMISSION



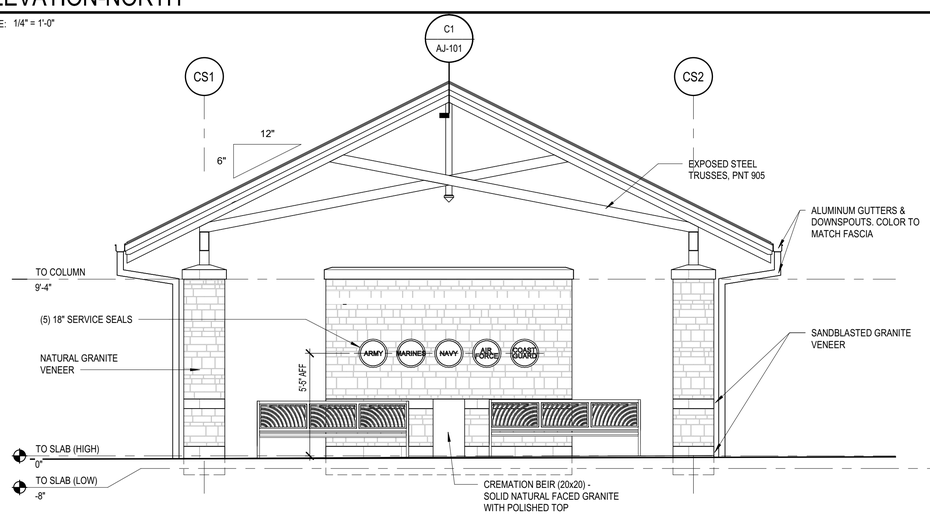
C1 ELEVATION-NORTH

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



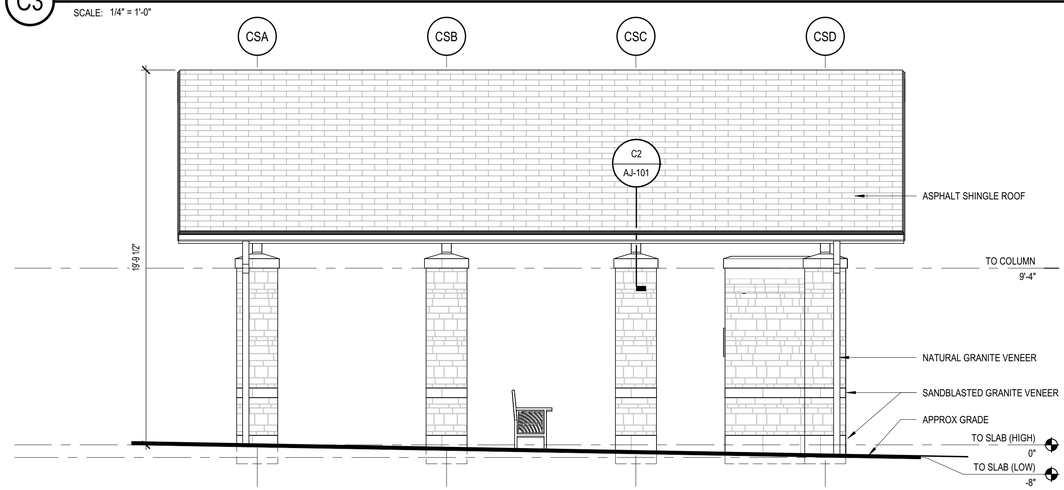
C3 ELEVATION-WEST

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



B1 ELEVATION-SOUTH

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



B3 ELEVATION-EAST

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

SCHEDULE-DOOR

	DOOR									FRAME					
DR NO	DR WIDTH	DR HEIGHT	P1 WIDTH	P1 TYPE	P2 WIDTH	P2 TYPE	MAT	FINISH	COLOR	TYPE	MAT	FINISH	COLOR	HDW SET	REMARKS
101	6'-0"	7'-2"	3'-0"	E201	3'-0"	E201	HM	PNT	905	1	HM	PNT	905	SEE SPEC	

EXTERIOR FINISH SCHEDULE

MATERIAL	COMMENTS
1/4" FC SOFFIT	HARDIE NON-VENTILATED SMOOTH SOFFIT PANEL, COLOR: MONTEREY TAUPE
ALUMINUM GUTTERS & DOWNSPOUTS	FACTORY FINISH TO MATCH HARDIE COLOR: NIGHT GRAY
ASPHALT SINGLE ROOF	CERTAINTEED CORP MAX ARCHITECTURAL SHINGLE, COLOR: DEF MOIRE BLACK
BLUESTONE CAP	EQUINUNK BLUESTONE (THERMAL FINISH)
FC TRIM	HARDIE TRIM BOARDS, FINISH:SMOOTH, COLOR: MONTEREY TAUPE
NATURAL GRANITE VENEER	CHAMPLAIN STONE, CORINTHIAN GRANITE, FINISH: NATURAL SPLITFACE
SANDBLASTED GRANITE (VENEER & HEADER)	CHAMPLAIN STONE, CORINTHIAN GRANITE, FINISH: SANDBLASTED SPLITFACE

FINISH LEGEND:

600 ACOUSTICAL CEILING (APC)
602 (HVS) HARDIE NON-VENTILATED SMOOTH SOFFIT PANEL, BEADED, COLOR: MONTEREY TAUPE

900 PAINT, STAIN (PNT, STN)
905 (PNT) SHERWIN-WILLIAMS, WEB GRAY, SW7075 TO MATCH NIGHT GRAY

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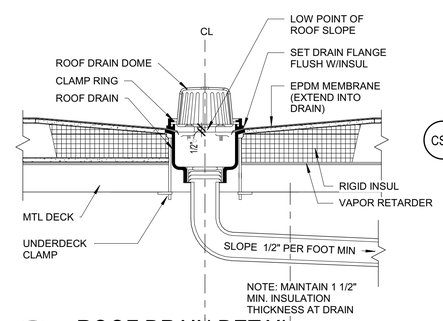
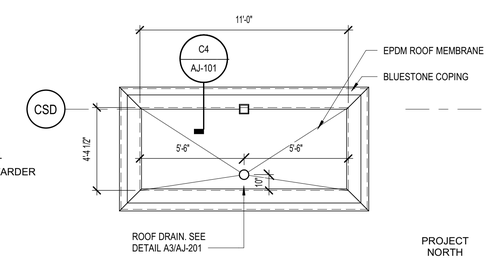


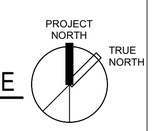
A3 ROOF DRAIN DETAIL

SCALE: 1 1/2" = 1'-0"



A4 ROOF PLAN - STORAGE

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



US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

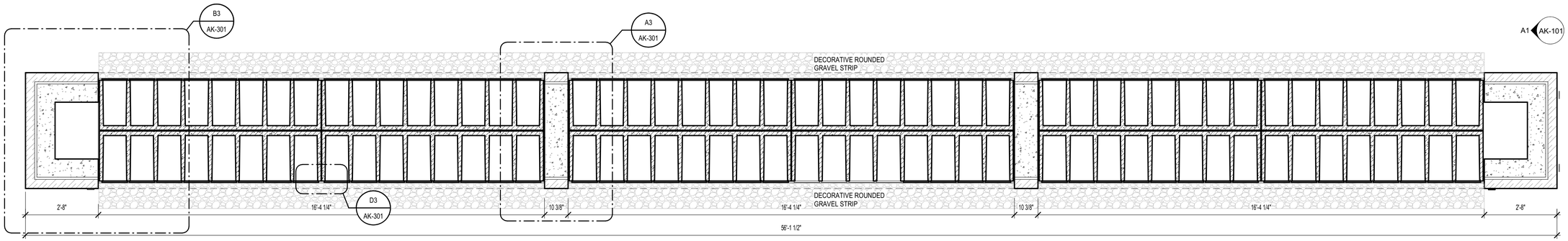
DESIGNED BY: Designer
DWN BY: JP
CKD BY: MK
SUBMITTED BY:
SIZE:
FILE NAME:
PLOT SCALE: As indicated
PLOT DATE: 10/29/2019
DATE: 04/30/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: 217000.00

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

COMMITAL SHELTER-ELEVATIONS & DETAILS

AJ-201

CD-2 SUBMISSION

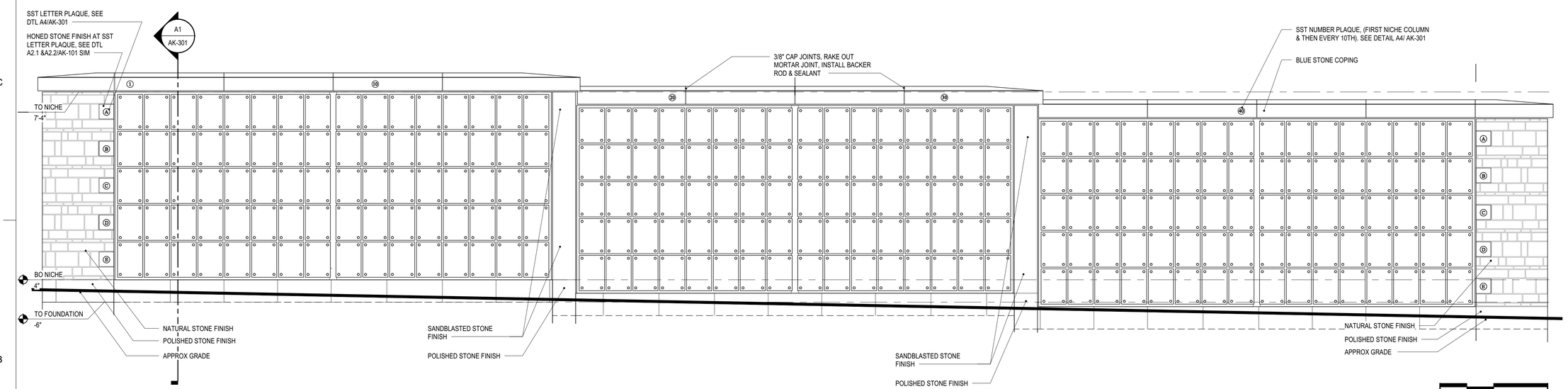


C1 PLAN - NICHE WALL (WALLS 3,4,5,6,7,8,9,10,19,20,21,22,23,24,25,26)

SCALE: 1/2" = 1'-0"

B1
AK-101

0' 1' 2' 4'

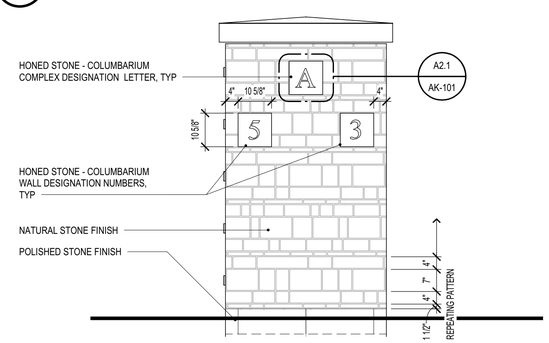


NOTE: OPPOSITE ELEVATION SIMILAR

0' 1' 2' 4'

B1 ELEVATION-FRONT (TYP)

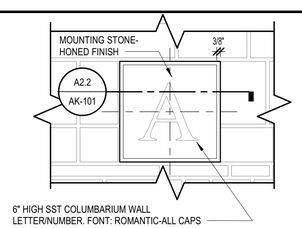
SCALE: 1/2" = 1'-0"



A1 ELEVATION-END

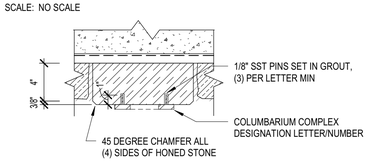
NOTE: OPPOSITE ELEVATION SIMILAR

SCALE: 1/2" = 1'-0"



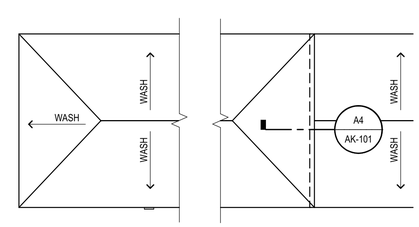
A2.1 ELEV - SECTION MARKER

SCALE: NO SCALE



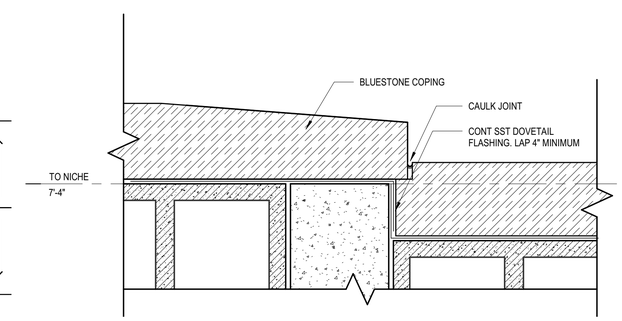
A2.2 SECT DTL - SECTION MARKER

SCALE: 1 1/2" = 1'-0"



A3 PLAN DETAIL - BLUESTONE CAP WASH

SCALE: 1/2" = 1'-0"



A4 SECTION DETAIL AT STEP - TYPICAL

SCALE: 1 1/2" = 1'-0"

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US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: MK
DWN BY: JP
CKD BY: MK
SUBMITTED BY:
PLOT SCALE: AS SHOWN
PLOT DATE:
SIZE:
FILE NAME:
DATE: 04/30/19
SOLICITATION NO.:
CONTRACT NO.: W912DS17F0030
FILE NUMBER: 217000.00

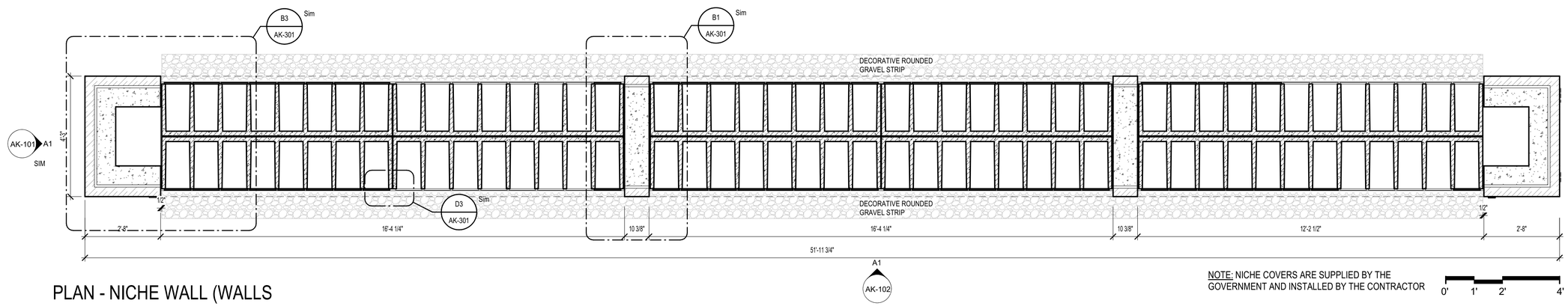
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412
QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

NICHE WALL TYPE A - PLANS & ELEVATIONS

AK-101

CD-2 SUBMISSION

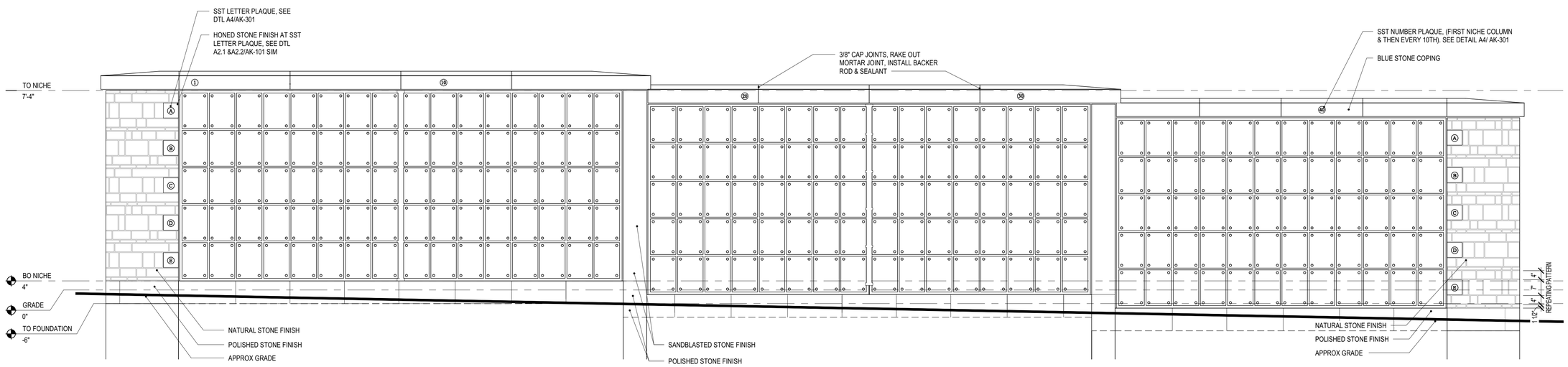


NOTE: NICHE COVERS ARE SUPPLIED BY THE GOVERNMENT AND INSTALLED BY THE CONTRACTOR

0' 1' 2' 4'

C1 PLAN - NICHE WALL (WALLS 11,12,13,14,15,16,17,& 18)

SCALE: 1/2" = 1'-0"



NOTE: OPPOSITE ELEVATION SIMILAR

0' 1' 2' 4'

A1 ELEVATION-FRONT (TYP)

SCALE: 1/2" = 1'-0"

WARNING: THIS DOCUMENT MAY CONTAIN SENSITIVE SECURITY INFORMATION AND THEREFORE MUST BE TREATED AS A CONFIDENTIAL DOCUMENT. THE INFORMATION CONTAINED IN THIS DOCUMENT MUST BE MAINTAINED IN A CONFIDENTIAL MANNER TO PREVENT COMPROMISING HOMELAND SECURITY AS PROVIDED IN SECTION 214 OF THE HOMELAND SECURITY ACT OF 2002. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED, RELEASED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE UNITED STATES ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT (USACE - NYD). UNAUTHORIZED REPRODUCTION, RELEASE OR DISTRIBUTION MAY RESULT IN CIVIL PENALTY OR OTHER ACTION BY USACE-NYD.

0' 8' 16' 32' 64' 0' 8' 16' 32' 64' 0' 4' 8' 16' 32' 0' 4' 8' 16' 32' 0' 2' 4' 8' 16' 0' 1' 2' 4' 0' 6" 1' 2' 0' 3" 6" 1'

US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

OPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

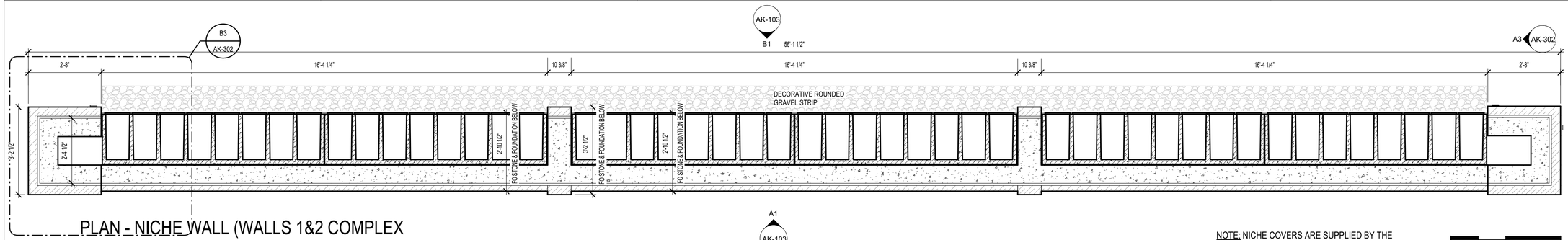
DESIGNED BY: MK
DWN BY: JP
CKD BY: MK
SUBMITTED BY:
PLOT SCALE: 1/2" = 1'-0"
PLOT DATE: 4/30/2019 7:00:00 PM
SIZE:
FILE NAME:
DATE: 04/30/19
SOLICITATION NO.:
CONTRACT NO.: W912DS17F0030
FILE NUMBER: 217000.00

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

NICHE WALL TYPE B - PLANS & ELEVATIONS

AK-102

CD-2 SUBMISSION



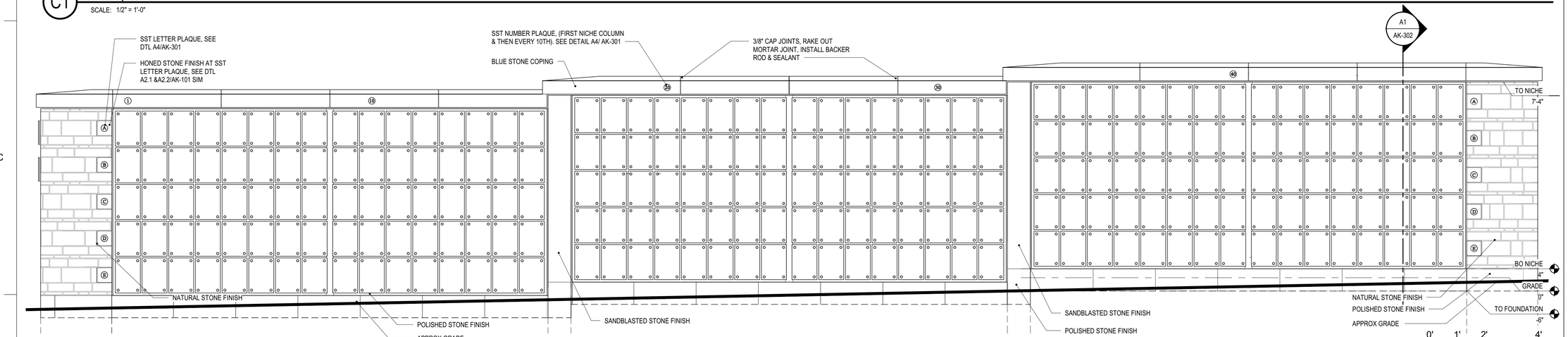
PLAN - NICHE WALL (WALLS 1&2 COMPLEX A&B)

C1

SCALE: 1/2" = 1'-0"

NOTE: NICHE COVERS ARE SUPPLIED BY THE GOVERNMENT AND INSTALLED BY THE CONTRACTOR

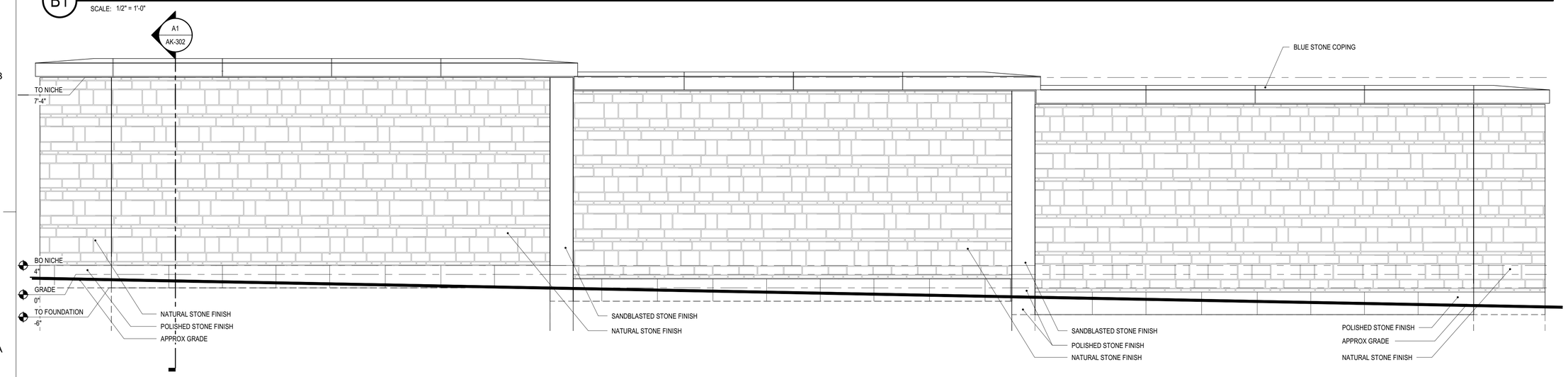
0' 1' 2' 4'



ELEVATION-FRONT (TYP)

B1

SCALE: 1/2" = 1'-0"



ELEVATION-BACK (TYP)

A1

SCALE: 1/2" = 1'-0"

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US Army Corps of Engineers

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CKD BY: MK
SUBMITTED BY:
PLOT SCALE: 1/2" = 1'-0"
PLOT DATE:
SIZE:
FILE NAME:

DATE: 04/30/19
SOLICITATION NO.:
CONTRACT NO.: W91ZDS17F0030
FILE NUMBER: 217000.00

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

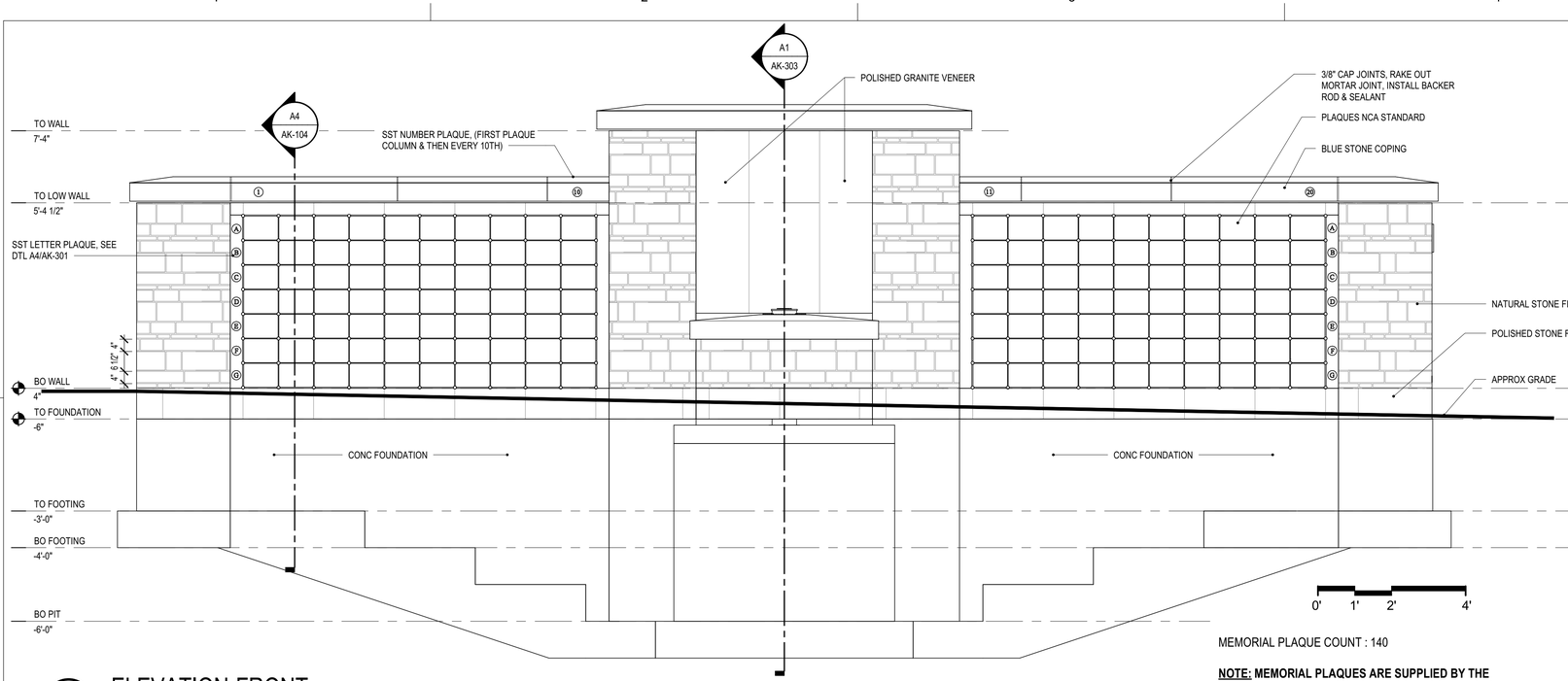
QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

NICHE WALL TYPE C-PLANS & ELEVATIONS

AK-103

CD-2 SUBMISSION

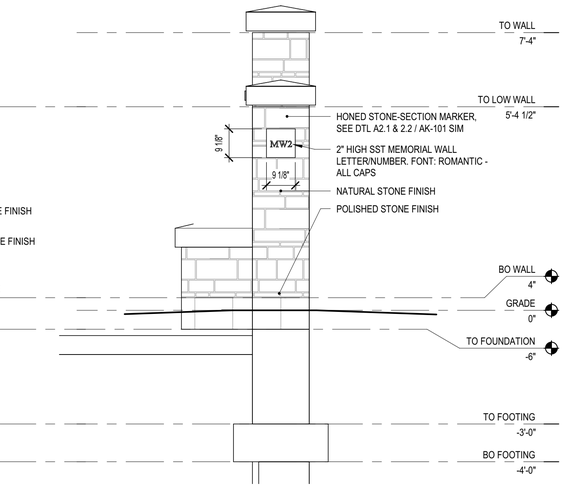


MEMORIAL PLAQUE COUNT : 140

NOTE: MEMORIAL PLAQUES ARE SUPPLIED BY THE GOVERNMENT AND INSTALLED BY THE CONTRACTOR

D1 ELEVATION-FRONT

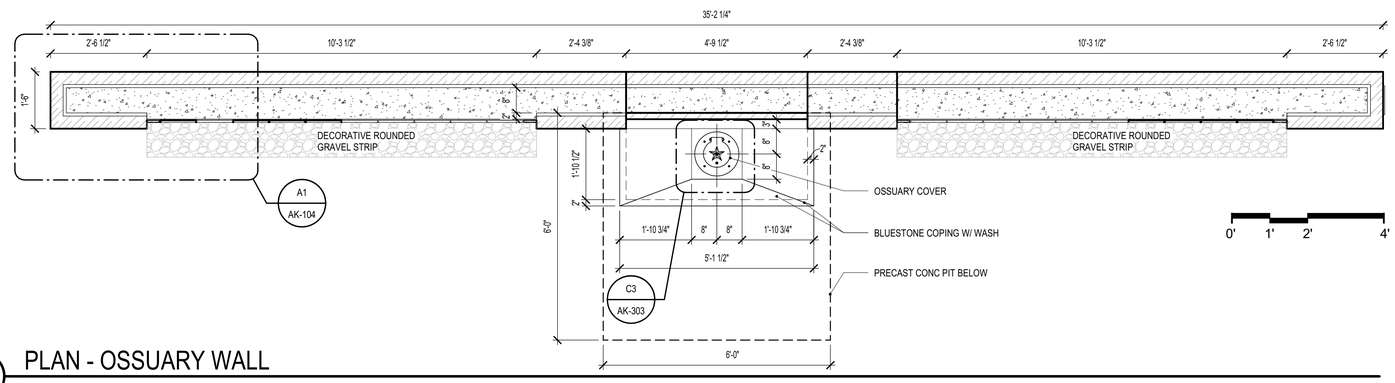
SCALE: 1/2" = 1'-0"



C4 ELEVATION-EAST

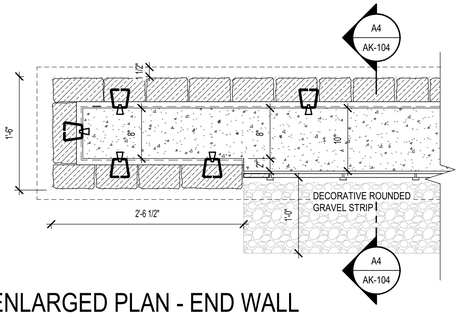
NOTE: OPPOSITE ELEVATION SIMILAR

SCALE: 1/2" = 1'-0"



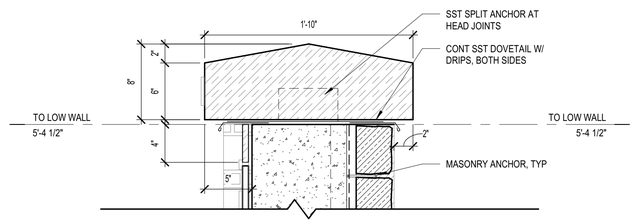
B1 PLAN - OSSUARY WALL

SCALE: 1/2" = 1'-0"



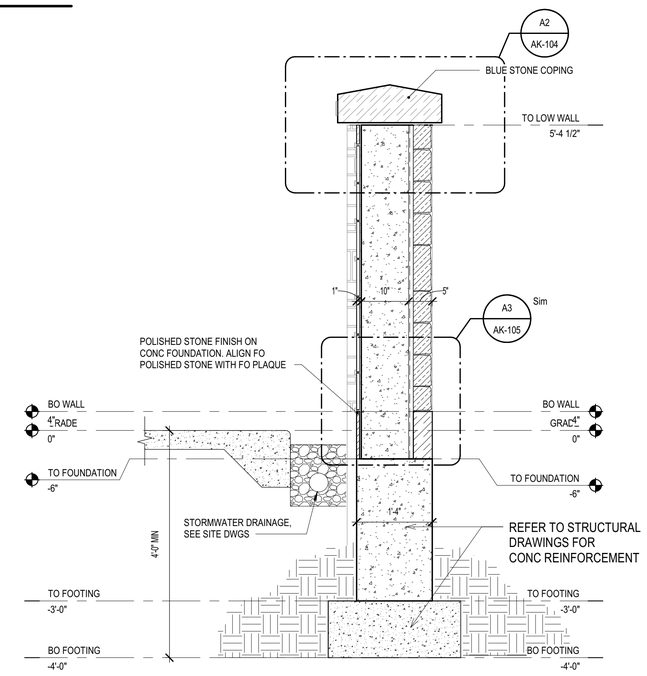
A1 ENLARGED PLAN - END WALL

SCALE: 1" = 1'-0"



A2 SECTION DETAIL - STONE COPING

SCALE: 1 1/2" = 1'-0"



A4 SECTION DETAIL - OSSUARY WALL

SCALE: 3/4" = 1'-0"

PROJECT NORTH

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US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

DESIGNED BY: MK
DWN BY: JP
CKD BY: MK
SUBMITTED BY:
PLOT SCALE: AS INDICATED
PLOT DATE: AS INDICATED
SIZE:
FILE NAME:
DATE: 04/30/19
SOLICITATION NO.:
CONTRACT NO.: W912DS17F0020
FILE NUMBER: 217600.00

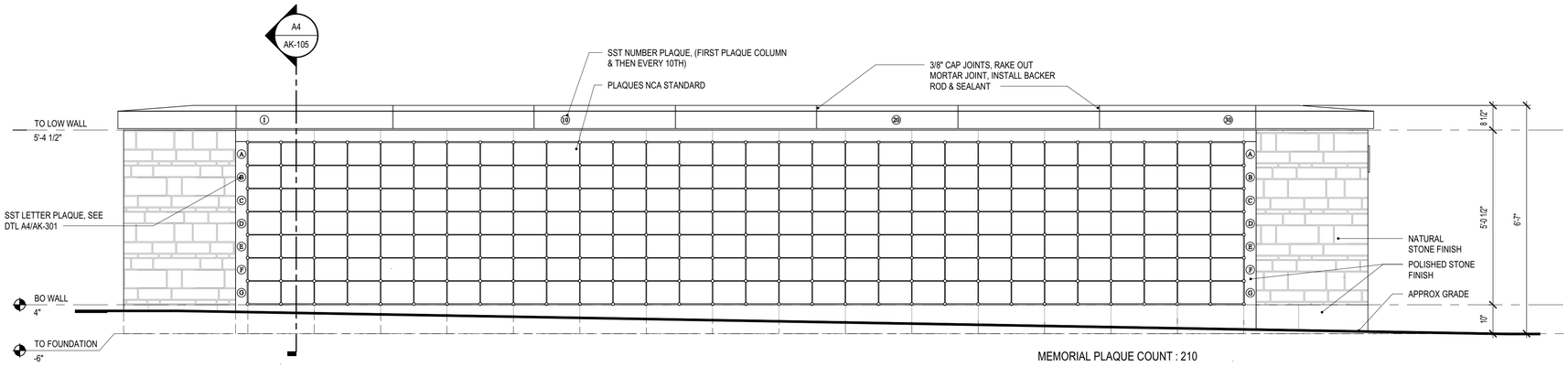
QPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

OSSUARY-PLANS, ELEVATIONS & DETAILS

AK-104

CD-2 SUBMISSION



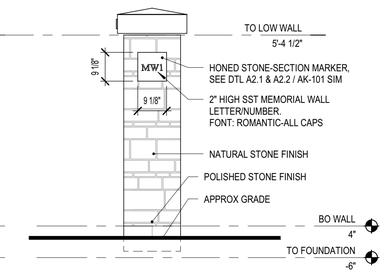
MEMORIAL PLAQUE COUNT : 210

NOTE: MEMORIAL PLAQUES ARE SUPPLIED BY THE GOVERNMENT AND INSTALLED BY THE CONTRACTOR

0' 1' 2' 4'

D1 ELEVATION-FRONT (WALLS MW1 & MW3)

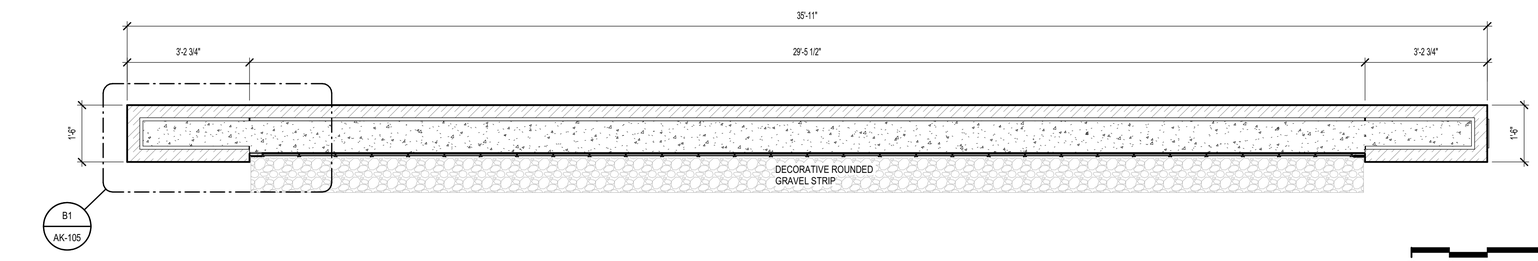
SCALE: 1/2" = 1'-0"



NOTE: OPPOSITE ELEVATION SIMILAR

D4 ELEVATION-END

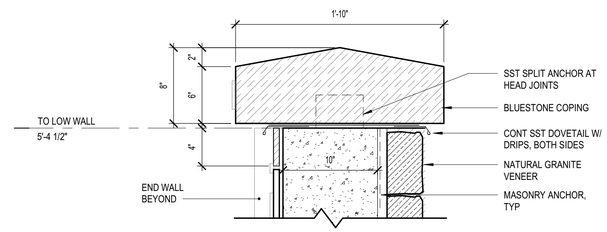
SCALE: 1/2" = 1'-0"



0' 1' 2' 4'

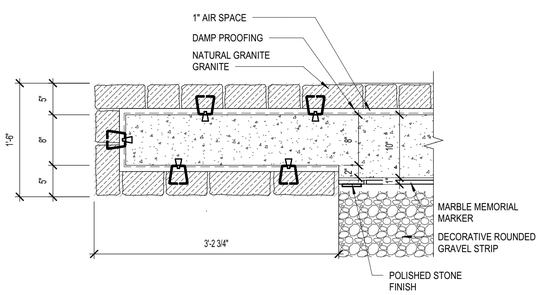
C1 PLAN - MEMORIAL WALL

SCALE: 1/2" = 1'-0"



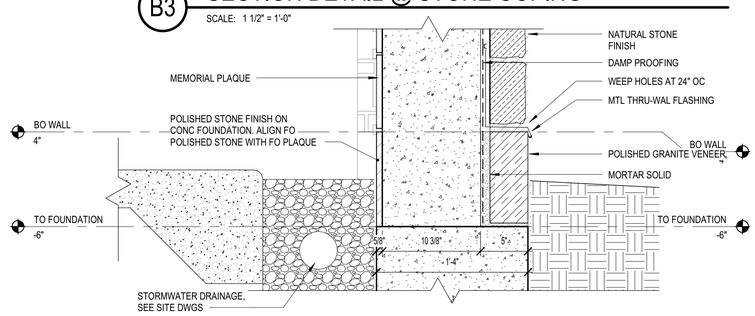
B3 SECTION DETAIL @ STONE COPING

SCALE: 1 1/2" = 1'-0"



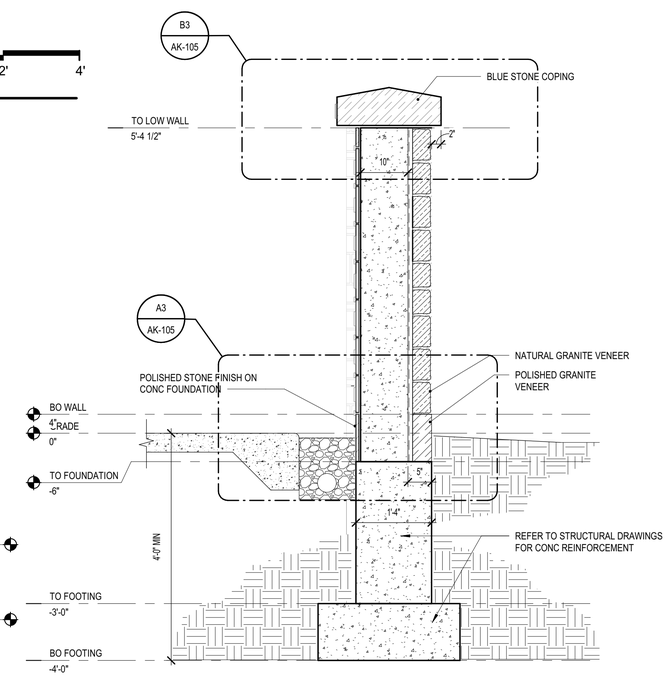
B1 PLAN DETAIL - END WALL

SCALE: 1" = 1'-0"



A3 SECTION DETAIL @ MEMORIAL WALL BASE

SCALE: 1 1/2" = 1'-0"



A4 SECTION @ MEMORIAL WALL

SCALE: 3/4" = 1'-0"

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US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
450 S SALINA STREET
SYRACUSE, NY 13201

OPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

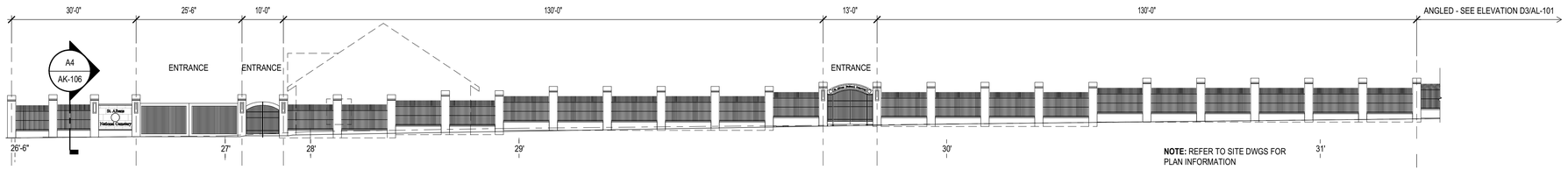
DESIGNED BY: MK | DATE: 04/30/2019
DWN BY: JP | CKD BY: MK | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.: W912DS17F0030
PLOT SCALE: As indicated | PLOT DATE: Month/Day/Year | FILE NUMBER: 217000.00
SIZE: | FILE NAME:

ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

MEMORIAL WALL-PLANS, ELEVATIONS, SECTIONS & DETAILS

AK-105

CD-2 SUBMISSION

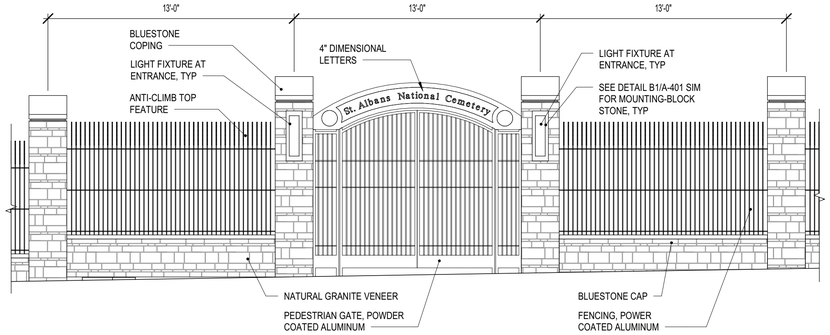


NOTE: REFER TO SITE DWGS FOR PLAN INFORMATION

0' 8' 16' 32' 64'

D1 ELEVATION A

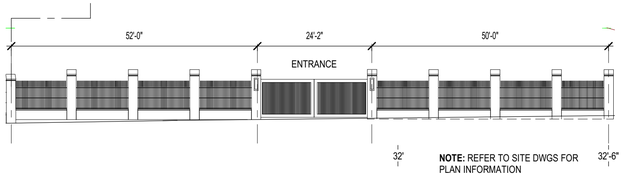
SCALE: 1/16" = 1'-0"



0' 2' 4' 8'

C1 PEDESTRIAN GATE ENTRANCE

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

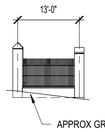


NOTE: REFER TO SITE DWGS FOR PLAN INFORMATION

0' 8' 16' 32' 64'

D3 ELEVATION B

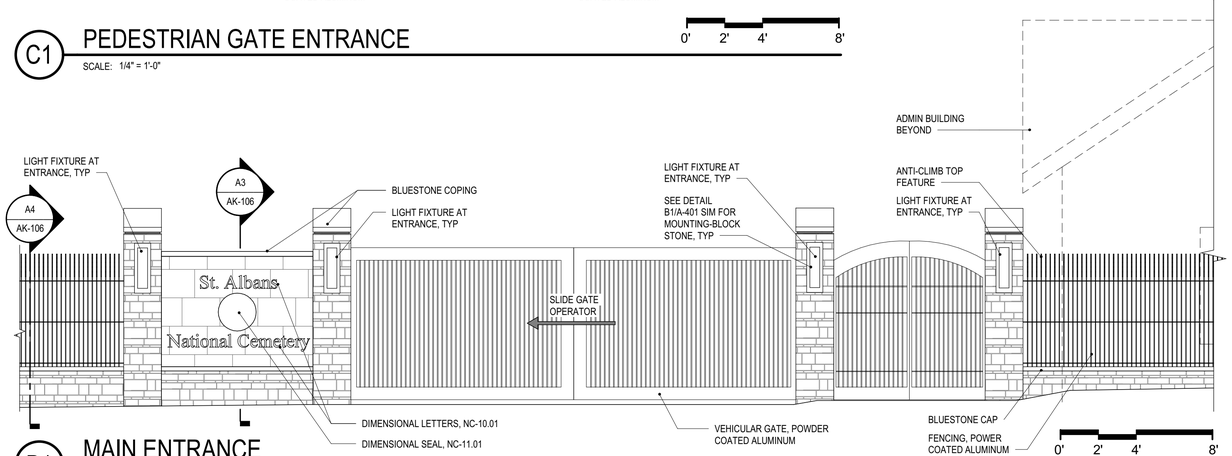
SCALE: 1/16" = 1'-0"



NOTE: REFER TO SITE DWGS FOR PLAN INFORMATION

C3 ELEVATION C

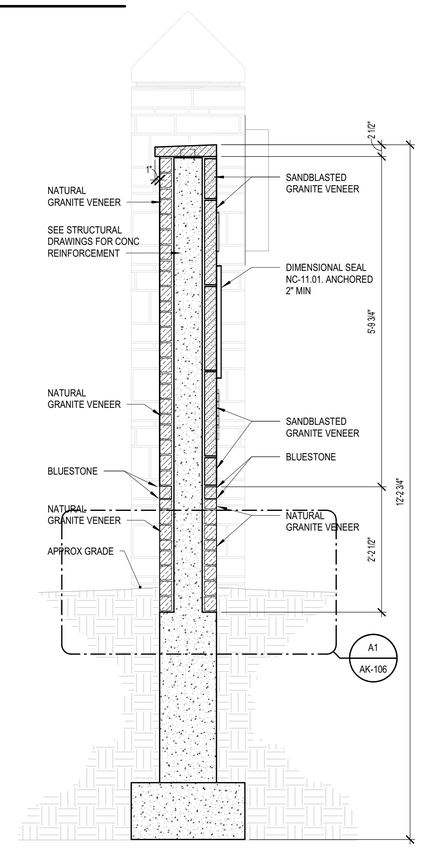
SCALE: 1/16" = 1'-0"

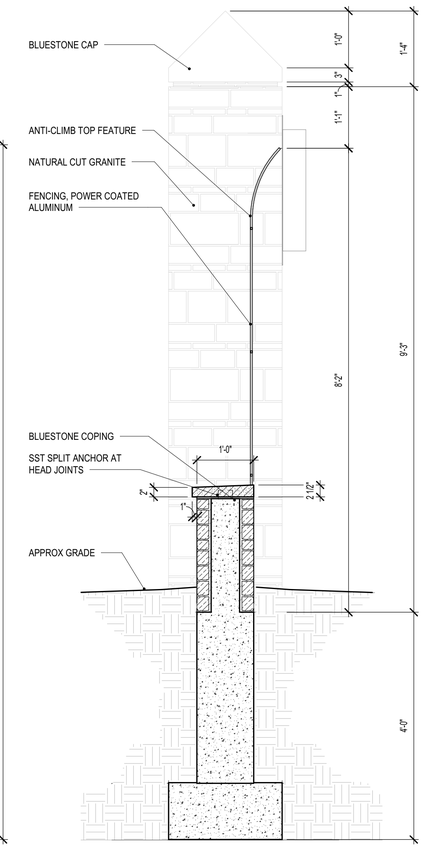


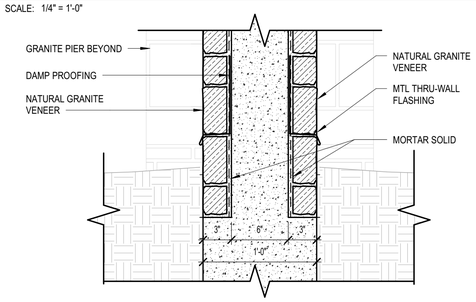
0' 2' 4' 8'

B1 MAIN ENTRANCE

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

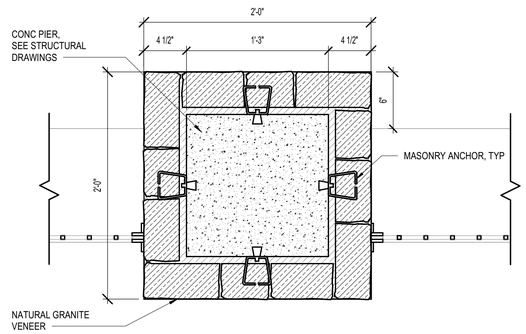






A1 SECTION DETAIL - FENCE TYP

SCALE: 1 1/2" = 1'-0"



A2 PLAN DETAIL - COLUMN

SCALE: 1 1/2" = 1'-0"

A3 SECTION DETAIL - ENTRY WALL

SCALE: 3/4" = 1'-0"

A4 SECTION DETAIL - FENCE

SCALE: 3/4" = 1'-0"

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US Army Corps of Engineers

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NEW YORK DISTRICT
BAISLEY BLVD.
ST ALBANS, QUEENS, NY 11412

OPK DESIGN
450 SOUTH SALINA STREET
SYRACUSE, NEW YORK

DESIGNED BY: Designer		DATE: 04/30/19	
DWN BY: JP	CKD BY: MK	SOLICITATION NO.:	
SUBMITTED BY:		CONTRACT NO.:	
PLOT SCALE: As Indicated	PLOT DATE: Not Applicable	FILE NUMBER: 217155.00	
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ST. ALBANS NATIONAL CEMETERY
VA NATIONAL CEMETERY ADMINISTRATION
ST ALBANS, QUEENS, NY

ELEVATIONS - ENTRANCES

AK-106

CD-2 SUBMISSION