United States Department of Agriculture

U.S. National Arboretum

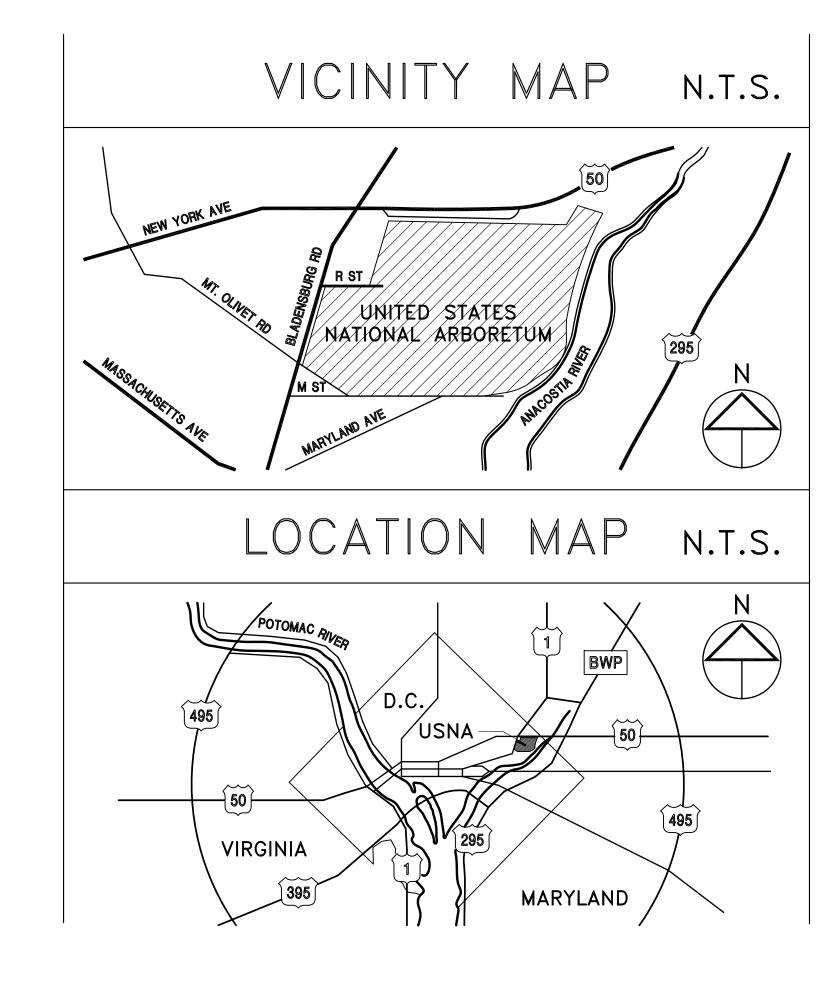


HERB GARDEN RENOVATIONS

03 JULY 2013 100% DRAFT CONSTRUCTION DOCUMENTS

LIST OF DRAWINGS:

CS-001 COVER SHEET ABBREVIATIONS, GENERAL NOTES AND SYMBOLS SITE LOCATION MAP EXISTING SURFACE CONDITIONS PLANT PRESERVATION PLAN PLANT PRESERVATION DETAILS DEMOLITION PLAN D-161 DEMOLITION INFORMATION EROSION & SEDIMENT CONTROL PLAN EROSION & SEDIMENT CONTROL DETAILS DRAINAGE PLAN STORM DRAIN DETAILS KEY PLAN MATERIALS & GRADING PLAN MATERIALS PLAN LAYOUT PLAN LANDSCAPE DETAILS LANDSCAPE PAVING ALTERNATIVES LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS PLANTING PLAN STRUCTURAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS HERB GARDEN FOUNDATION PLAN HERB GARDEN FRAMING PLAN STRUCTURAL DETAILS



Prepared by:

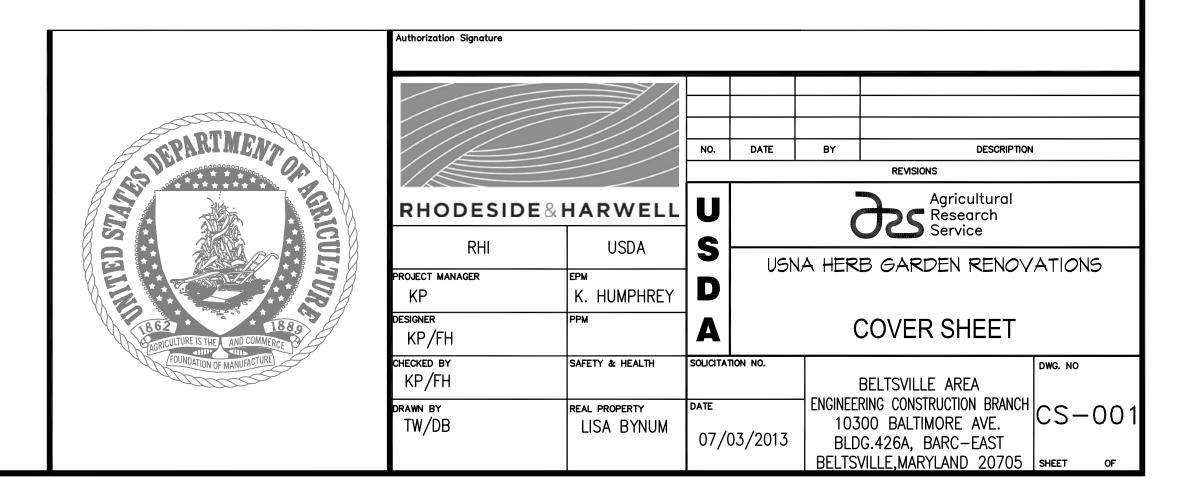
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Consultants:

ALPHA CORPORATION
SURVEYOR / CIVIL ENGINEERS

ROBERT SILMAN ASSOCIATES
STRUCTURAL ENGINEERS

LYNCH & ASSOCIATES IRRIGATION DESIGNERS



EXISTING CONDITIONS TO REMAIN (PROTECT FROM DAMAGE) HERB GARDEN OFFICE OFFICE DOOR YARD TRELLIS POST BRACKETS AND FOOTINGS PEDESTRIAN BENCH UNIT PAVERS PLANTING BEDS TREES TURF GRASS SURFACE DRAINAGE INLET LIGHT POLE DISPLAY SHELTER FOUNTAIN IRRIGATION SATELLITE CONCRETE SIDEWALK CRUSHED AGGREGATE WALK LARGE ARBOR STRUCTURE IRRIGATION POINT OF CONNECTION IRRIGATION PVC MAINLINE AND LOW VOLTAGE CONTROL WIRES EXISTING ITEMS TO SALVAGE BENCH TYPE 'A' REMOVE AND REPLACE WOOD COMPONENTS, BASE AND FOOTERS TO REMAIN

REMOVE AND REUSE METAL GATE FRAMES

REMOVE AND REPLACE BRICK PAVERS

REMOVE LIGHTING ON EX TRELLIS

REMOVE RAIN CAN ON EX FENCE

REPAIR / RELOCATE IRRIGATION AS NECESSARY FOR INSTALLATION OF NEW SUPPORTED TURF

REMOVE / RELOCATE SATELLITE CONTROLLER

GROUND ROD IN 10" ROUND VALVE BOX

CRUSHED STONE ACCESS DRIVE, EDGING, AND BASE MATERIAL

LINEAR TRELLIS AND FOOTINGS

YARD TRELLIS POSTS, BEAMS,

YARD SHED AND FOOTINGS

PRIVACY FENCE AND FOOTINGS

TWO REMOTE CONTROL VALVES

SEAL WIRES AND TAG "SPARE"

SPRINKLER HEADS ASSOCIATED

WITH ZONES #10B AND 20

AND TOPSOIL TO SUBGRADE

DRY WELL

EXISTING TURF

PROVIDE 10" ROUND SPLICE BOX

IN TWO VALVE BOXES (ZONES #10B AND 20)

AND ALUMINUM CAP

FREESTANDING TRELLIS AND FOOTINGS

WITH REINFORCED EDGE

REATTACH TO NEW TRELLIS

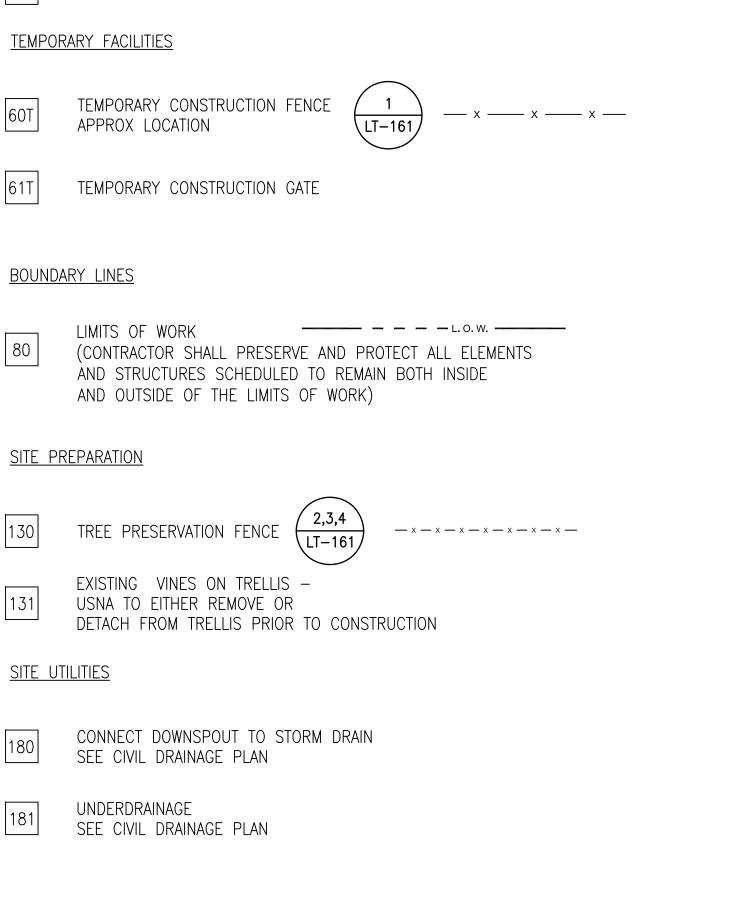
REATTACH TO NEW SHED

EXISTING CONDITIONS TO REMOVE

REMOVE AND REUSE METAL GATE FRAMES (L-165)

\ L-161 /

YARD GATE 2



EXISTING ITEMS TO BE REMOVED BY USNA

HERB GARDEN COLD FRAMES

PRIOR TO CONSTRUCTION

PLANTED POTS

40R

CONCRETE SLAB DIMENSION TBD SITE FEATURES LINEAR TRELLIS L-162 FREESTANDING TRELLIS YARD TRELLIS L-166 PRIVACY FENCE L-164 VEHICULAR YARD GATE \ L−167 YARD SHED -FURNISHED BY USNA, INSTALLED BY CONTRACTOR <u>PLANTING</u> PLANTING AREA TURF SOD RENOVATION THICKNESS JOINTS

<u>HARDSCAPE</u>

PERMEABLE PAVING

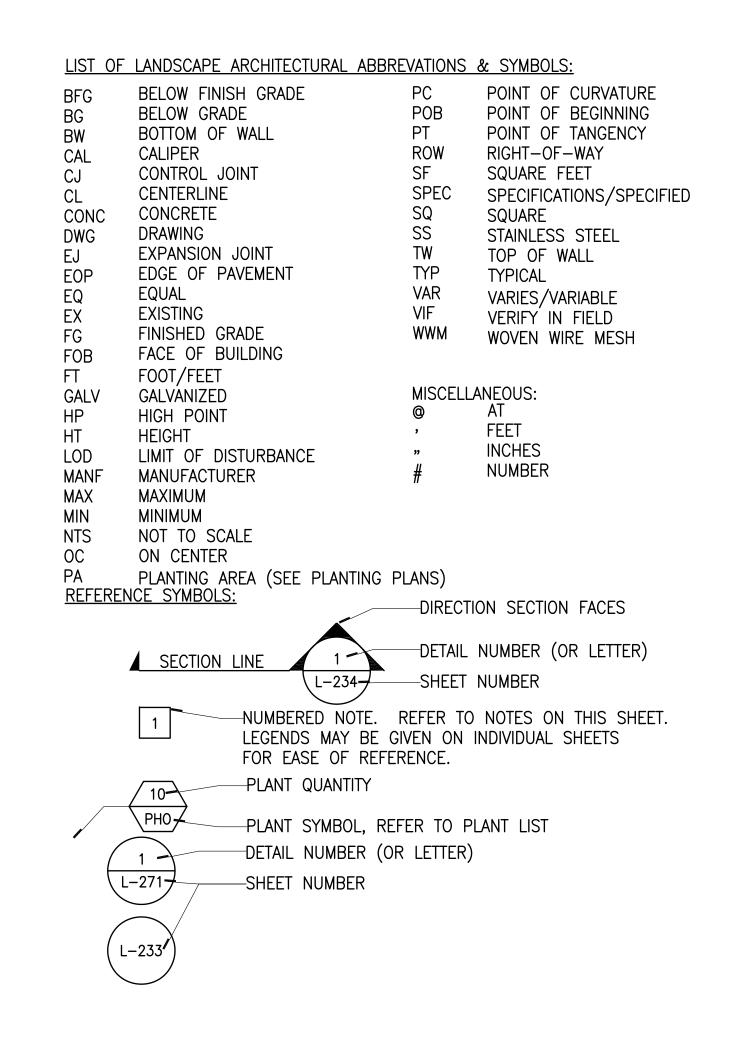
GRAVEL SURFACING GS-01

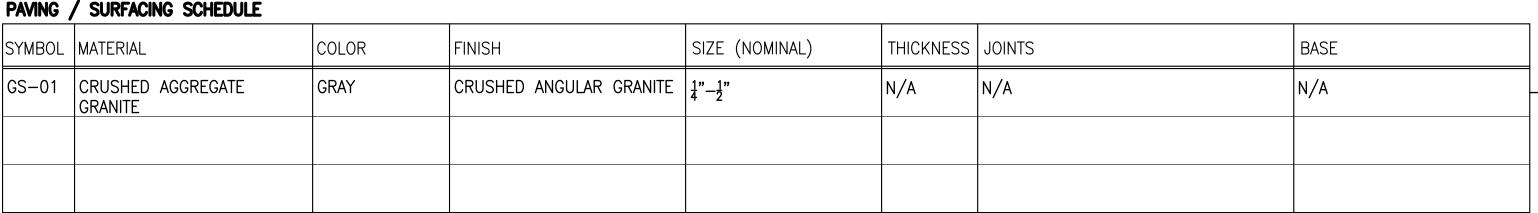
SEE PAVING SCHEDULE

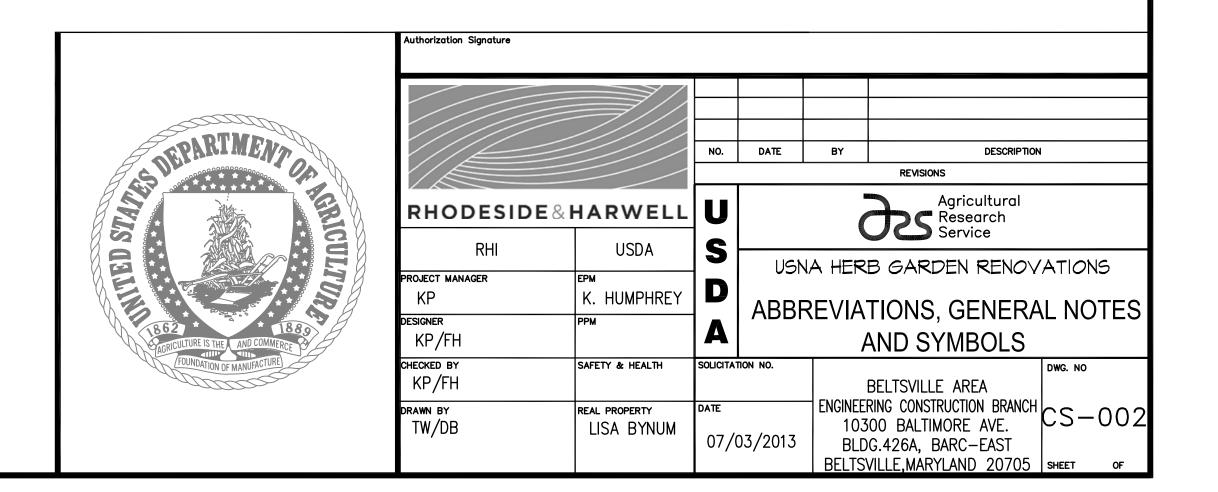
\ L-161

L-161

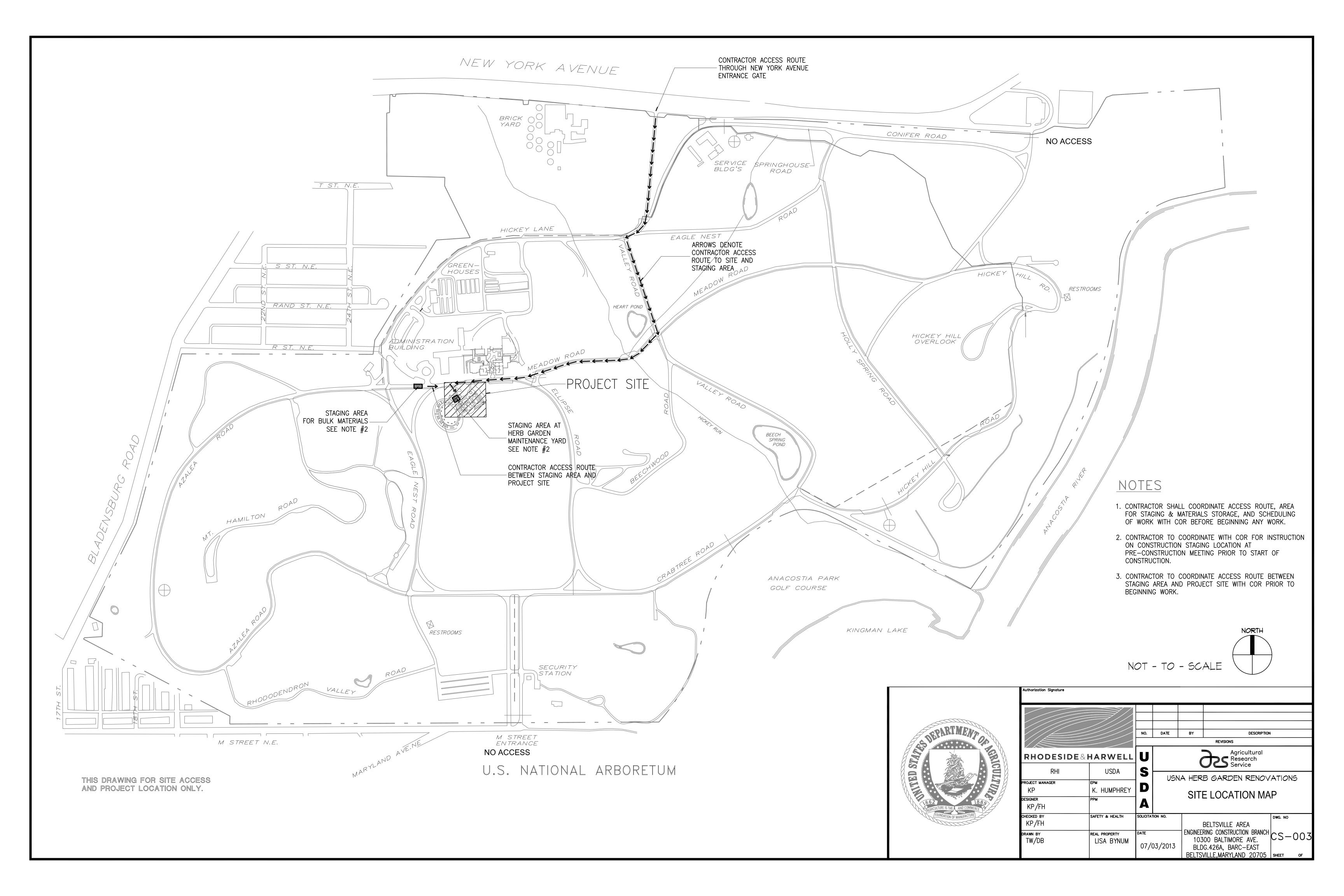
ALTERNATIVES

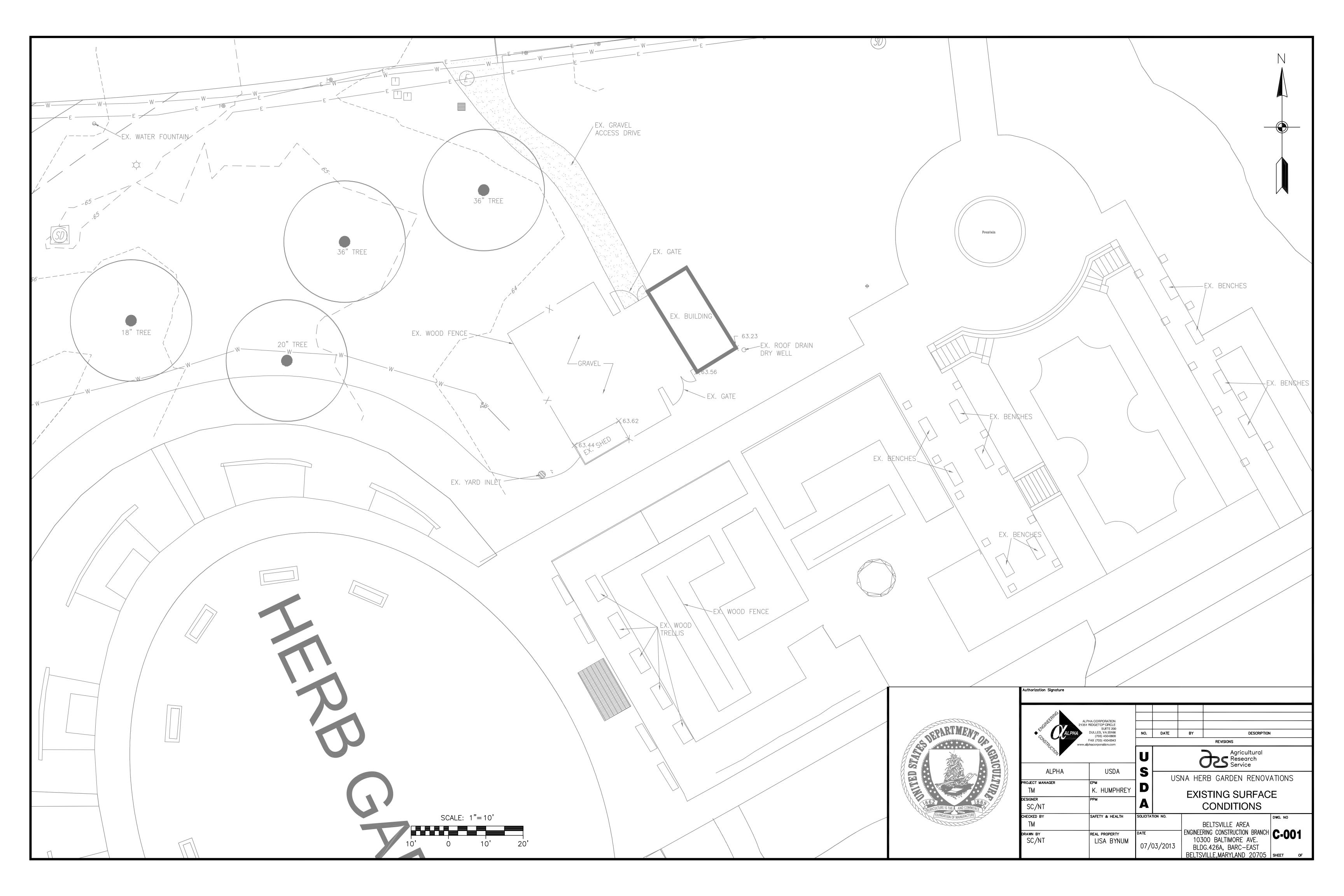


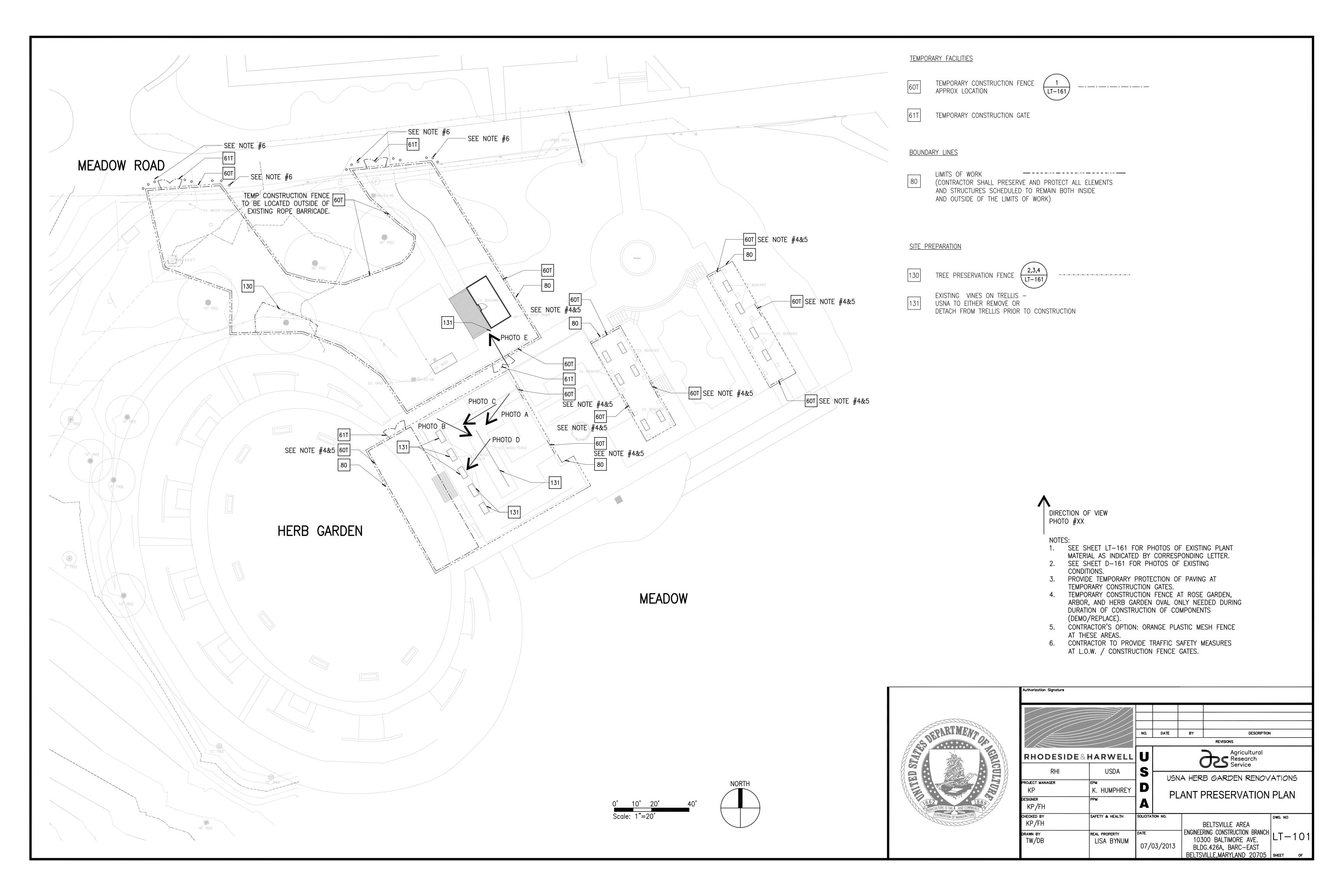




L-161









EXISTING PLANTINGS AT LINEAR TRELLIS -USNA TO EITHER REMOVE OR DETACH FROM TRELLIS



EXISTING PLANTINGS AT LINEAR TRELLIS —
USNA TO EITHER REMOVE OR DETACH FROM TRELLIS

NTS



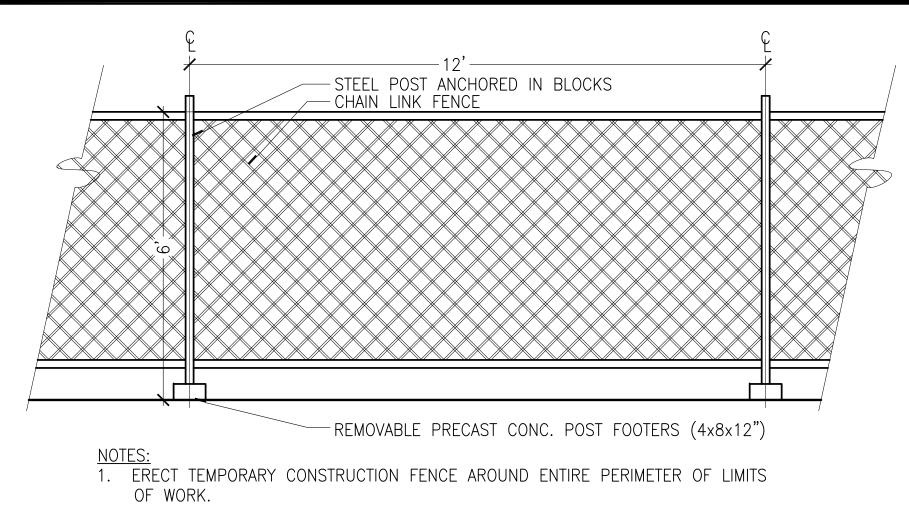
EXISTING PLANTINGS AT FREESTANDING TRELLIS –
USNA TO EITHER REMOVE OR DETACH FROM TRELLIS



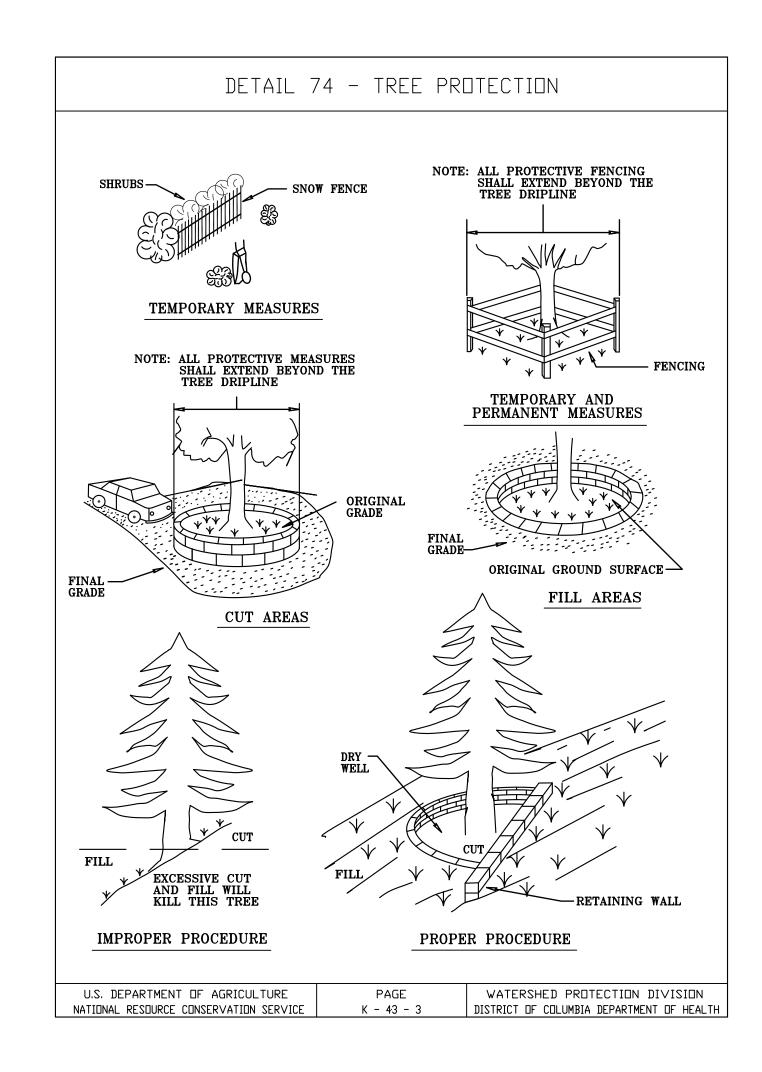
EXISTING PLANTINGS AT FREESTANDING TRELLIS -USNA TO EITHER REMOVE OR DETACH FROM TRELLIS



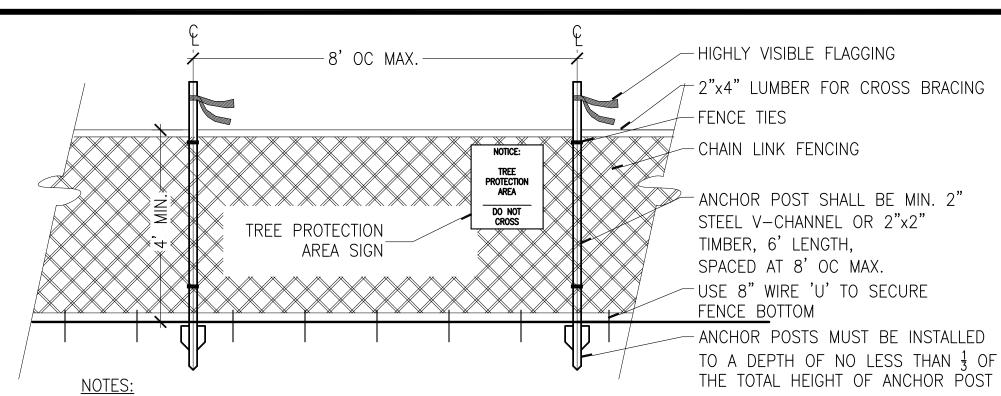
EXISTING PLANTINGS AT MAINTENANCE GATES -(E) USNA TO EITHER REMOVE OR DETACH FROM TRELLIS



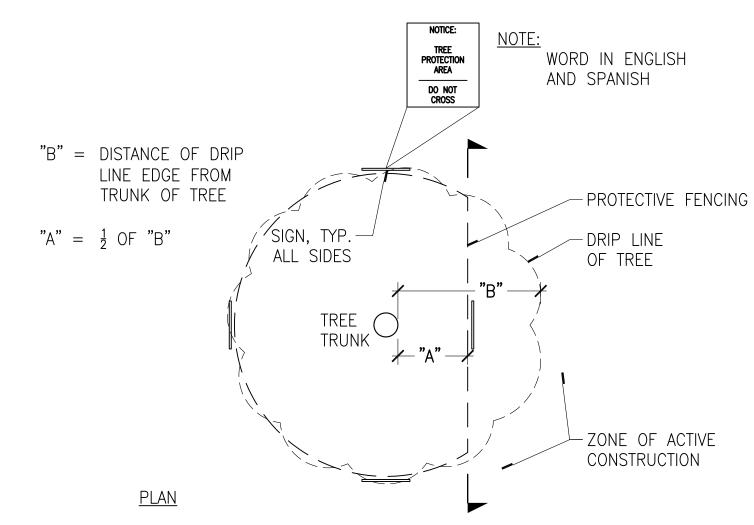
1) TEMPORARY CONSTRUCTION FENCE (60T)



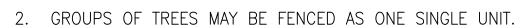
3 TREE PROTECTION - TYP DETAILS

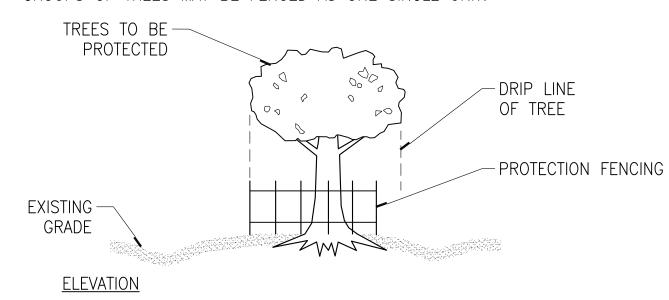


- 1. ERECT TREE PRESERVATION FENCE BETWEEN PATHWAY / HARDSCAPE IMPROVEMENTS AND EXISTING TREES.
- FENCE SHALL SEPARATE WORK AREAS FROM TREE PROTECTION AREAS AT ALL TIMES.
- FOREST PROTECTION DEVICE ONLY. 4. ROOT DAMAGE SHALL BE AVOIDED.
- PROTECTION SIGNAGE IS REQUIRED. WORD IN ENGLISH AND SPANISH. DEVICE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- TREE PRESERVATION FENCE



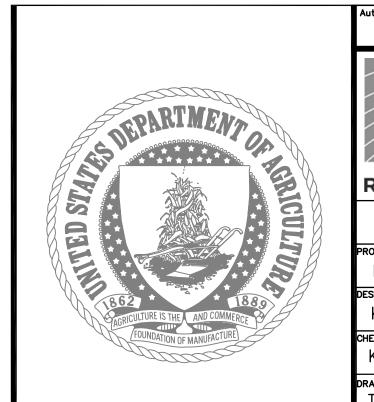
DISTURBANCE WHERE FENCING SHALL NOT BE PLACED CLOSER TO THE TREE THAN $\frac{1}{2}$ THE TOTAL DISTANCE FROM THE TREE TO THE LIMITS OF THE TREE'S DRIP LINE. THIS SPACE IS TO ACCOMMODATE GRADING ONLY AND NOT TO ALLOW ADDITIONAL WORKING SPACE.



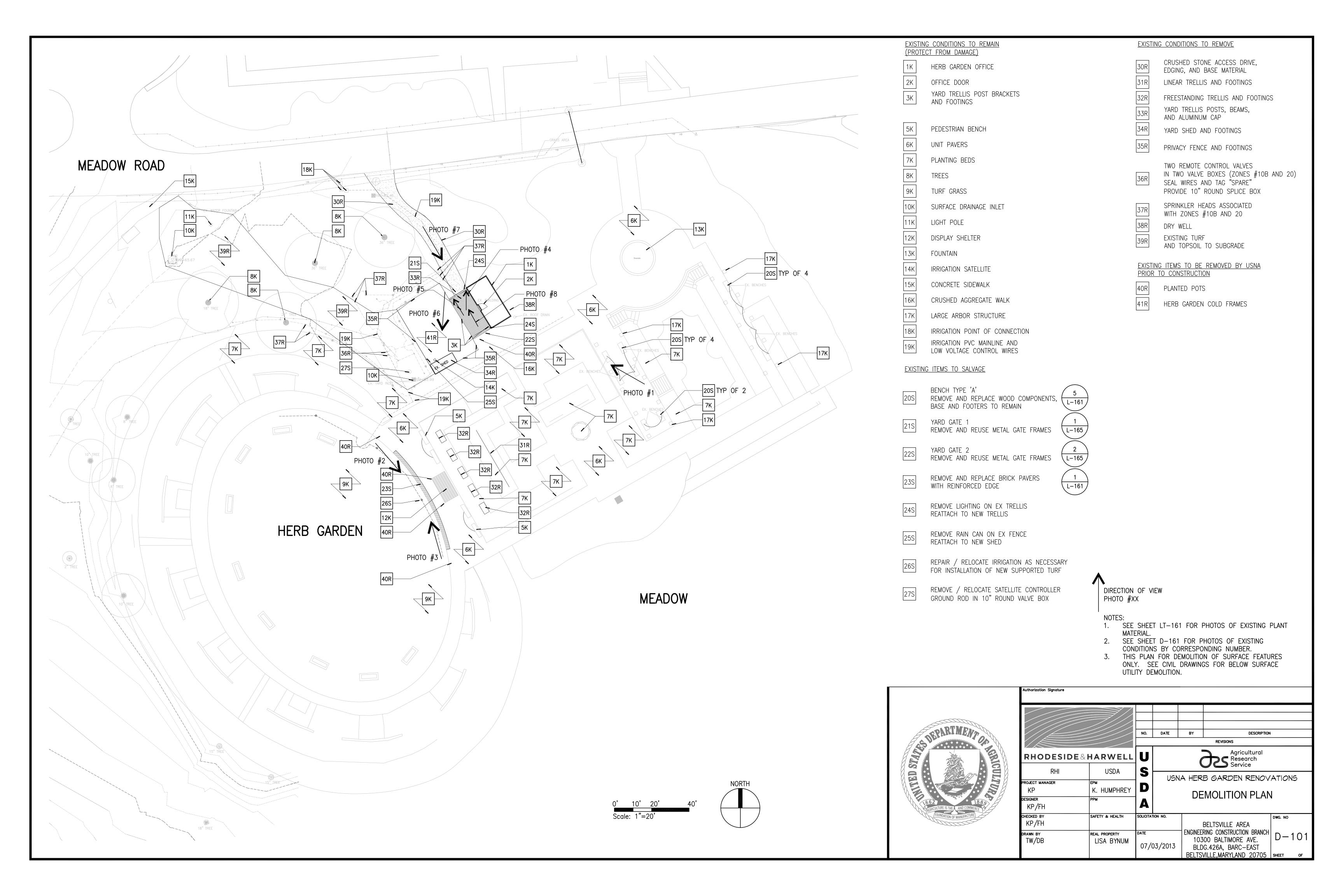


TREE PROTECTION - DETAILS

NTS



Authorization Signature		,				
		NO.	DATE	BY	DESCRIPTIO	<u> </u>
			l l		REVISIONS	
RHODESIDE&HARWELL		Agricultural Research Service				
RHI	USDA	S				
PROJECT MANAGER	EPM	USNA HERB GARDEN RENOVATIONS PLANT PRESERVATION			/ATIONS	
KP	K. HUMPHREY				ON	
designer KP/FH	РРМ	DETAILS				ON
CHECKED BY	SAFETY & HEALTH	SOLICITAT	TION NO.			DWG. NO
KP/FH					BELTSVILLE AREA	
drawn by TW/DB	REAL PROPERTY LISA BYNUM	07/03/2013		103	RING CONSTRUCTION BRANCH 500 BALTIMORE AVE. 1G.426A, BARC—EAST	LT-16
			·	I	VILLE, MARYLAND 20705	SHEET OF





EXISTING BENCH — REMOVE AND REPLACE WOOD COMPONENTS,

BASE AND FOOTERS TO REMAIN

Output

Output

Description:



REMOVE LIGHTING FROM EXISTING TRELLIS
REATTACH TO NEW TRELLIS

NTS



YARD GATES

REMOVE AND REUSE METAL GATE FRAMES

NTS



OVAL HERB WALK

EXISTING BRICK PAVERS TO SALVAGE

NTS



EXISTING YARD TRELLIS

POST BRACKETS AND FOOTINGS TO REMAIN

NTS



YARD GATES

REMOVE AND REUSE METAL GATE FRAMES

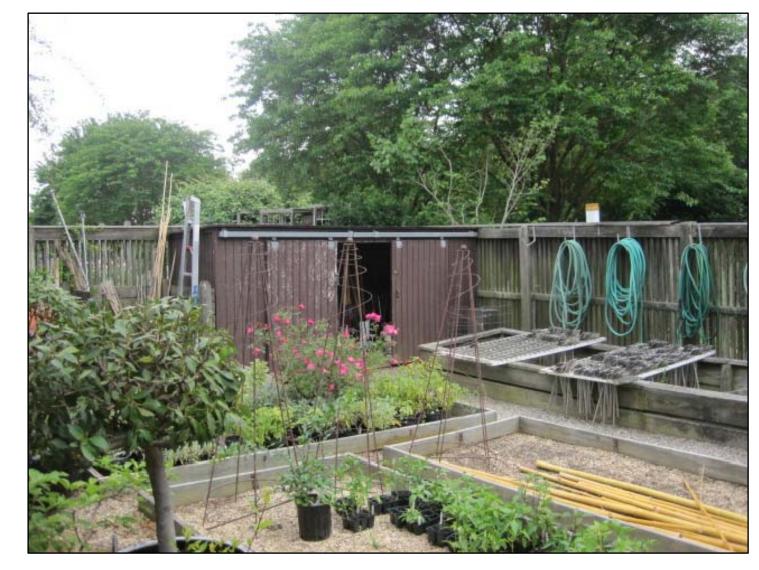
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OVAL HERB WALK

EXISTING BRICK PAVERS TO SALVAGE

NTS

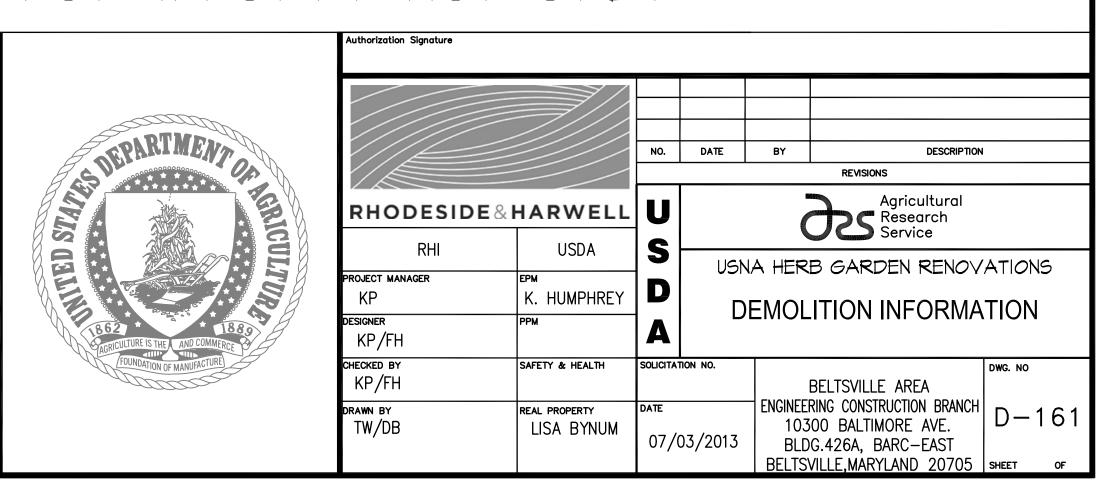


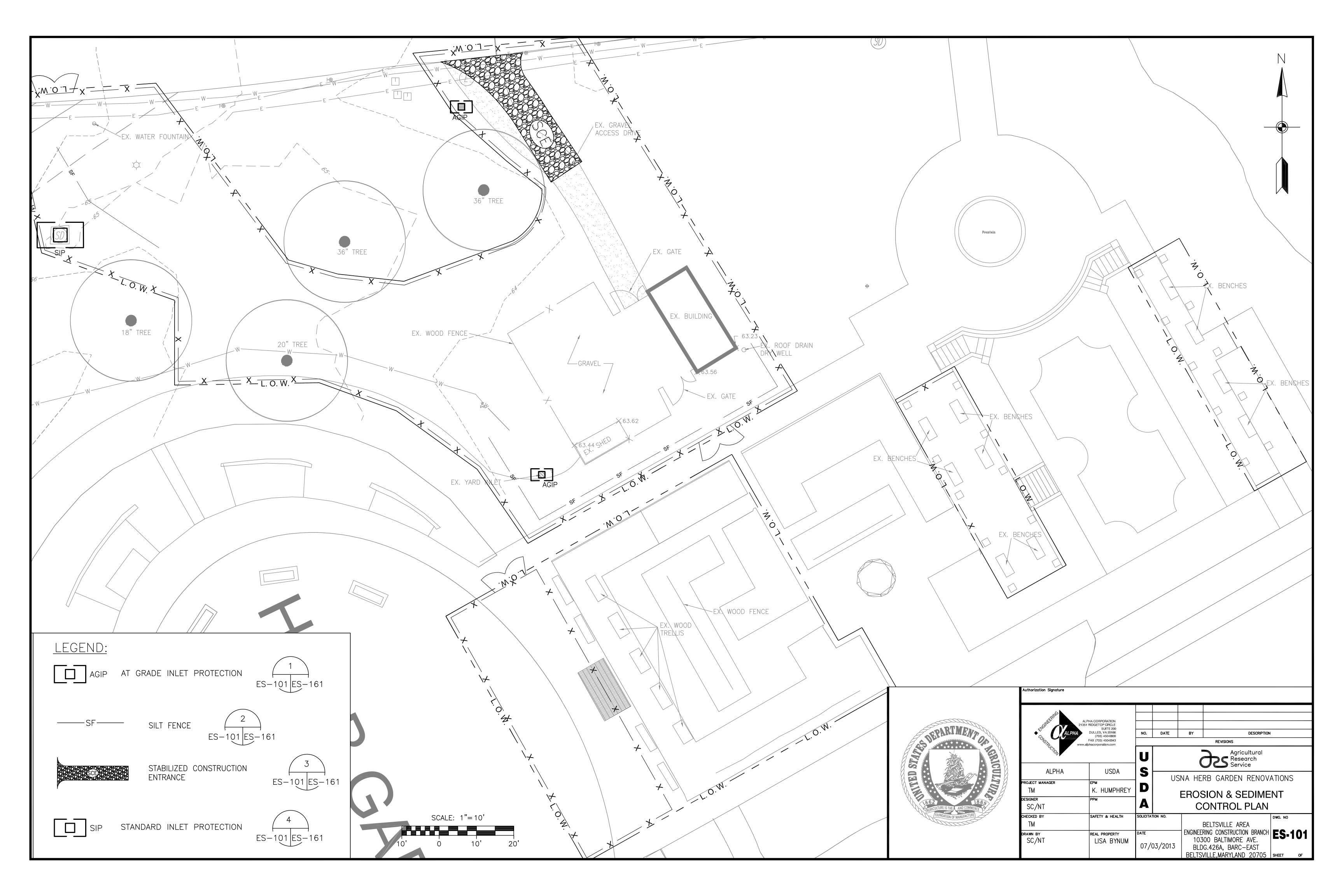
EXISITING MAINTENANCE YARD

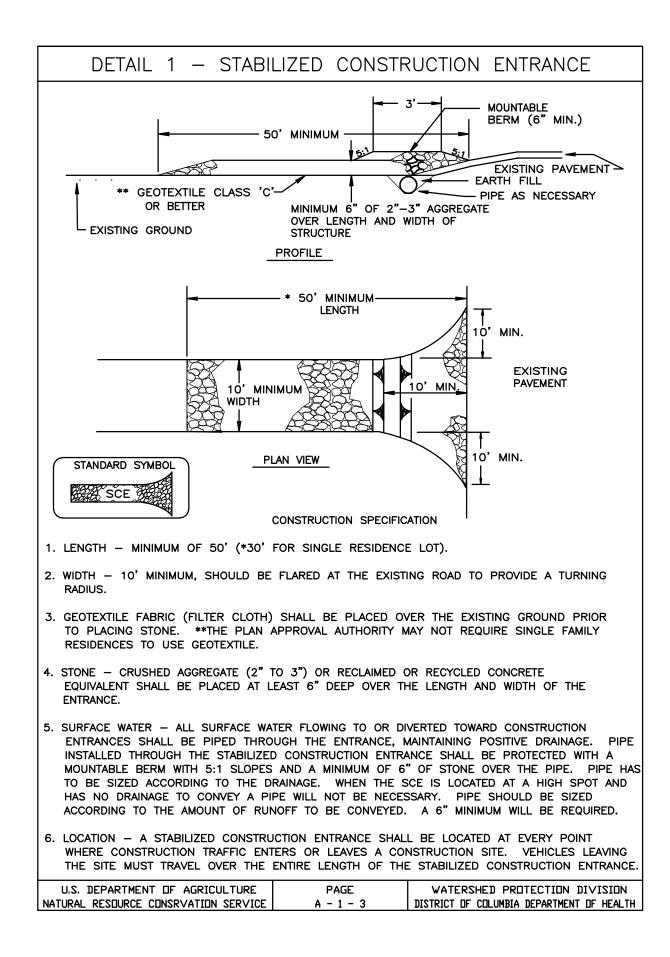
(6) EXISTING SHED TO BE REMOVED, COLD FRAMES TO REMOVED BY USNA

NTS

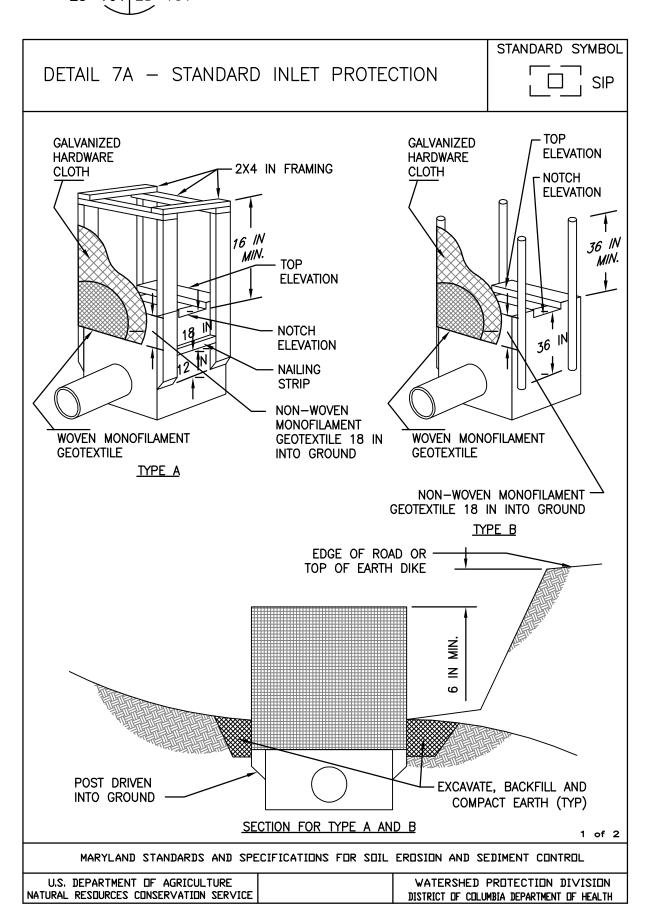
FOR INFORMATION ONLY



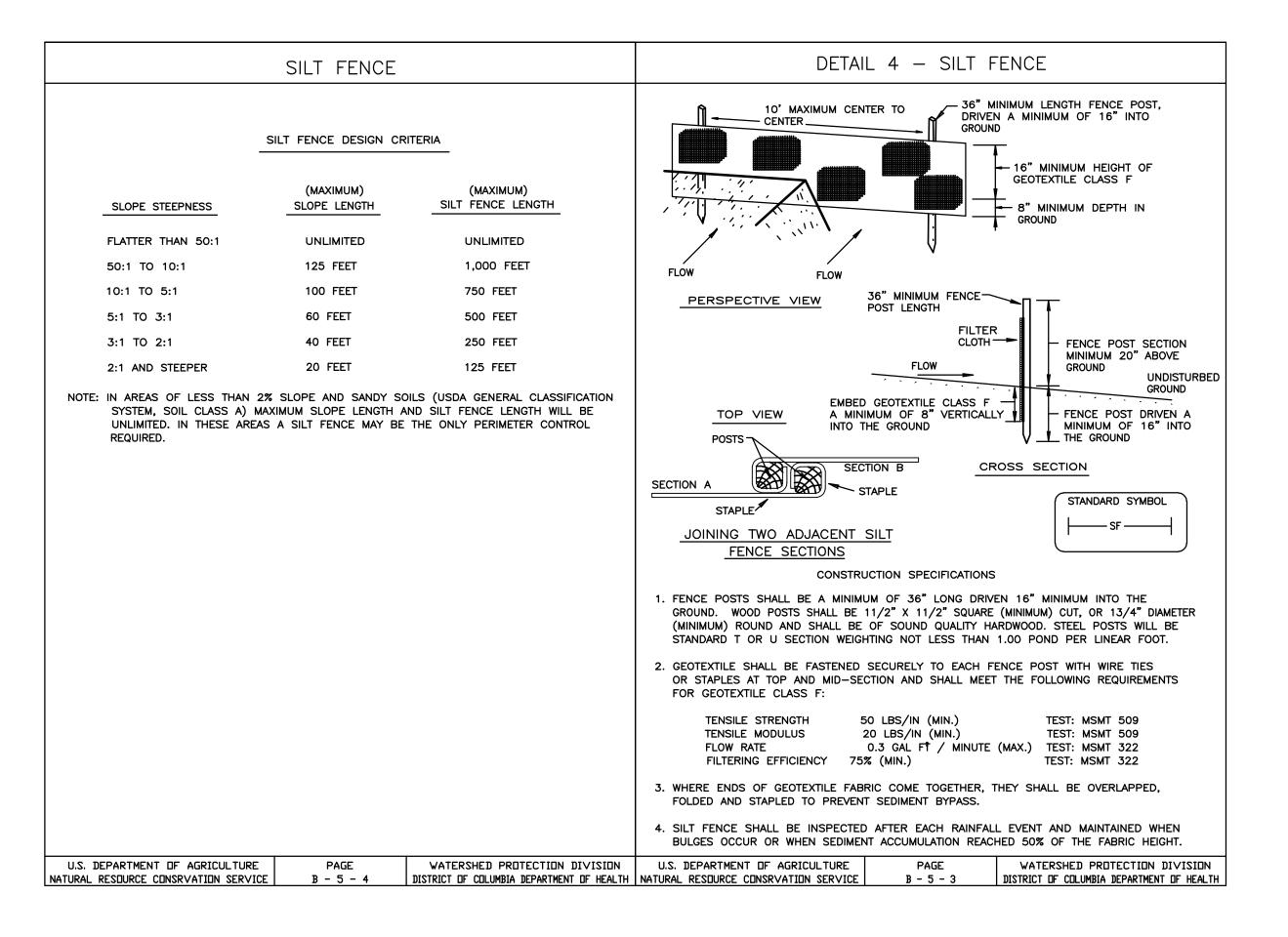




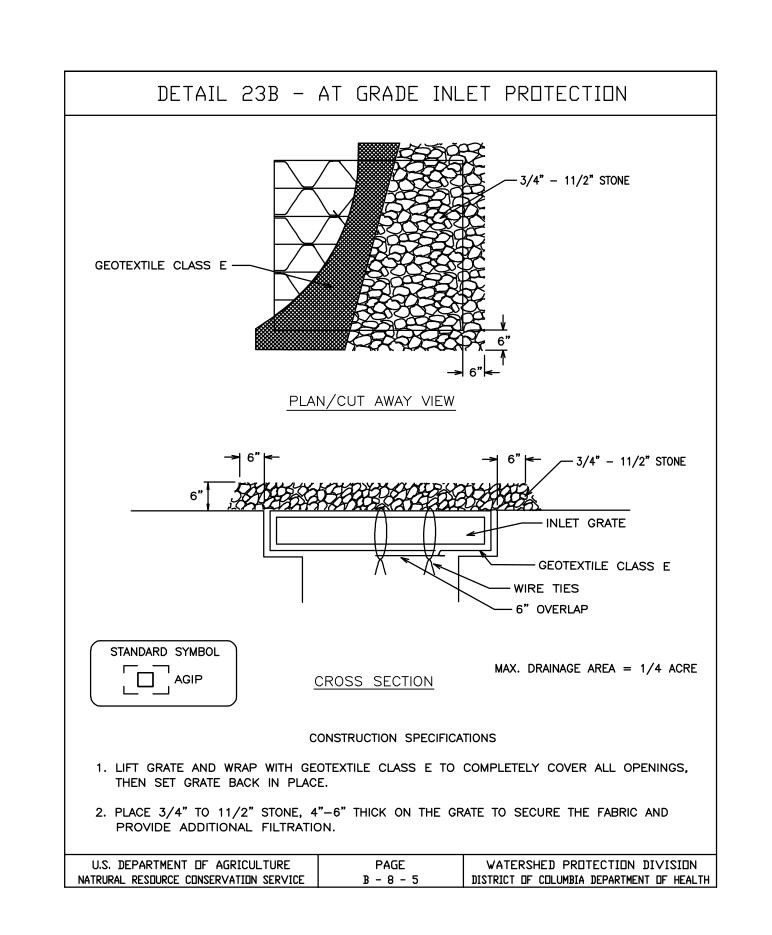




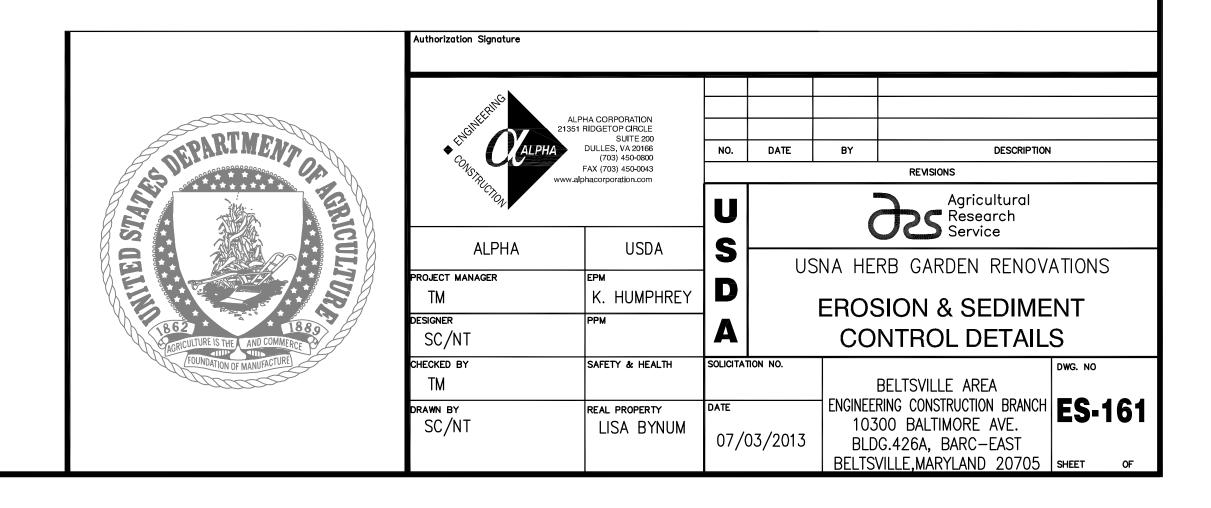
STANDARD INLET PROTECTION
S-101 ES-161 N.T.S.

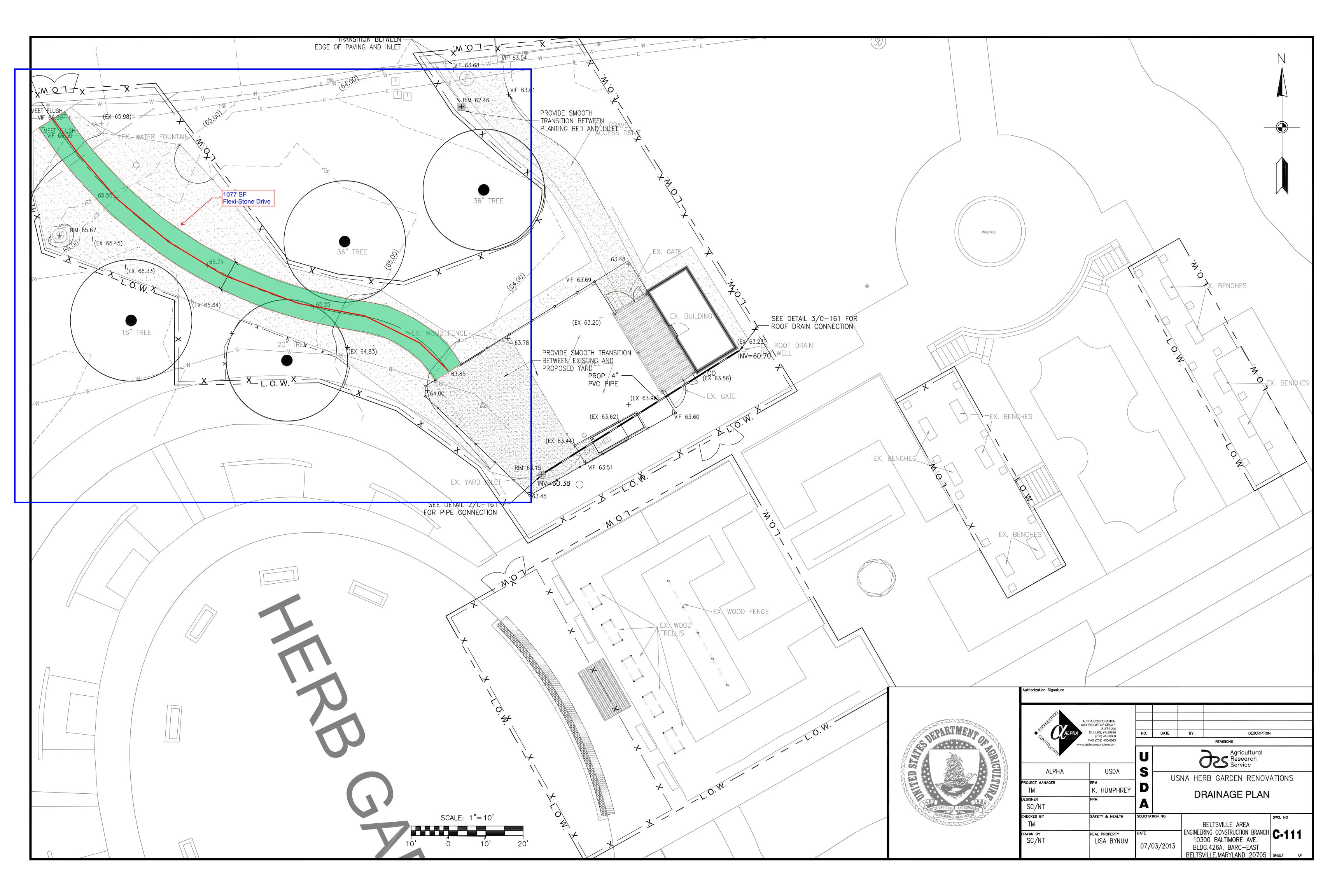


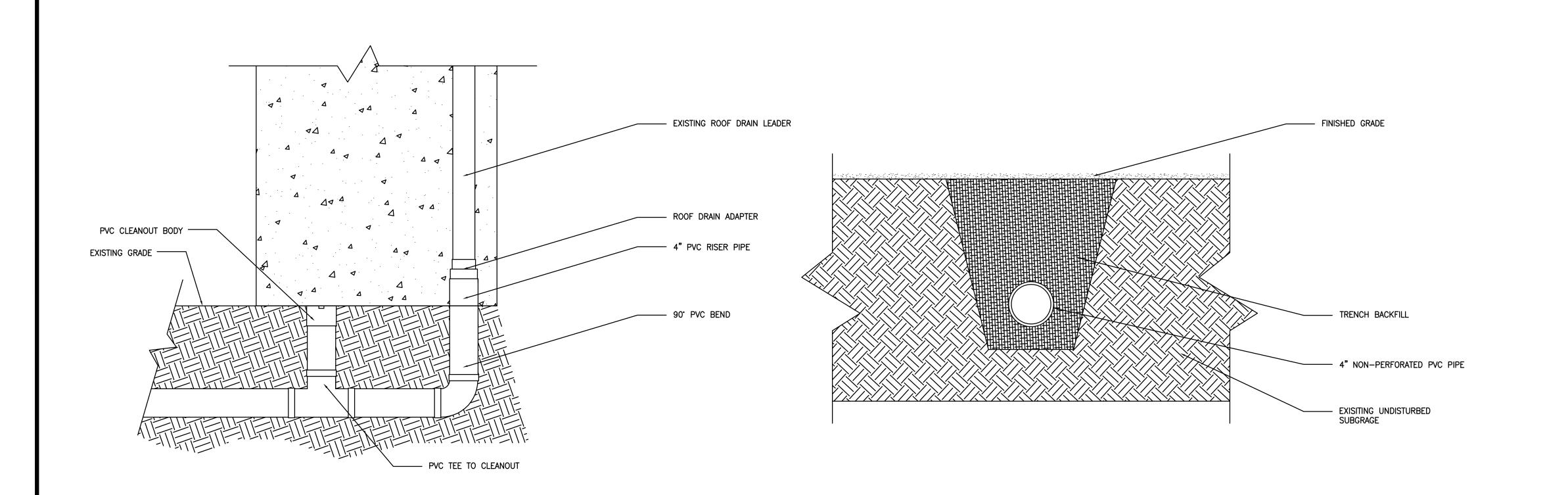


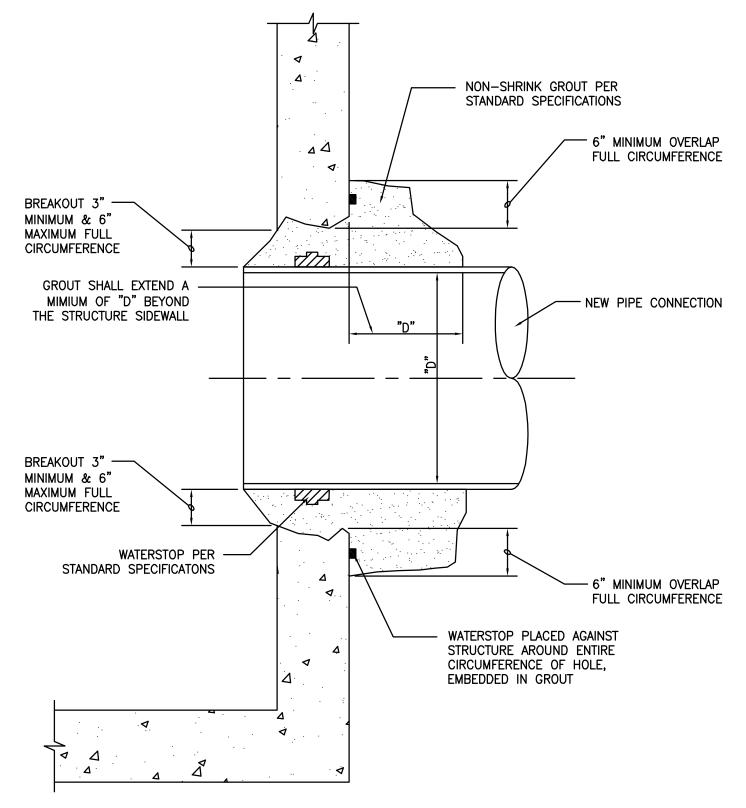






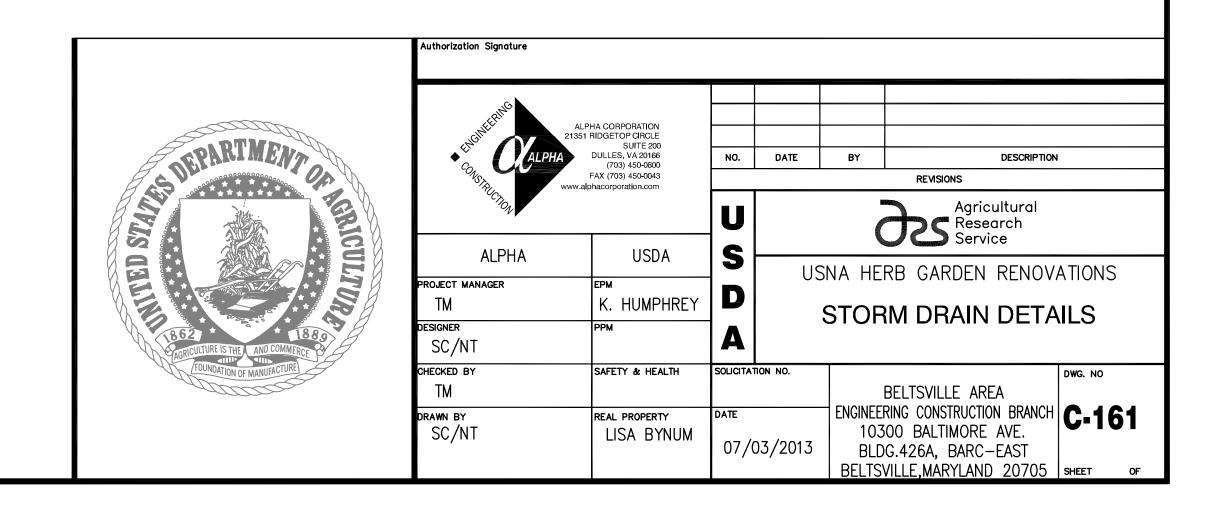


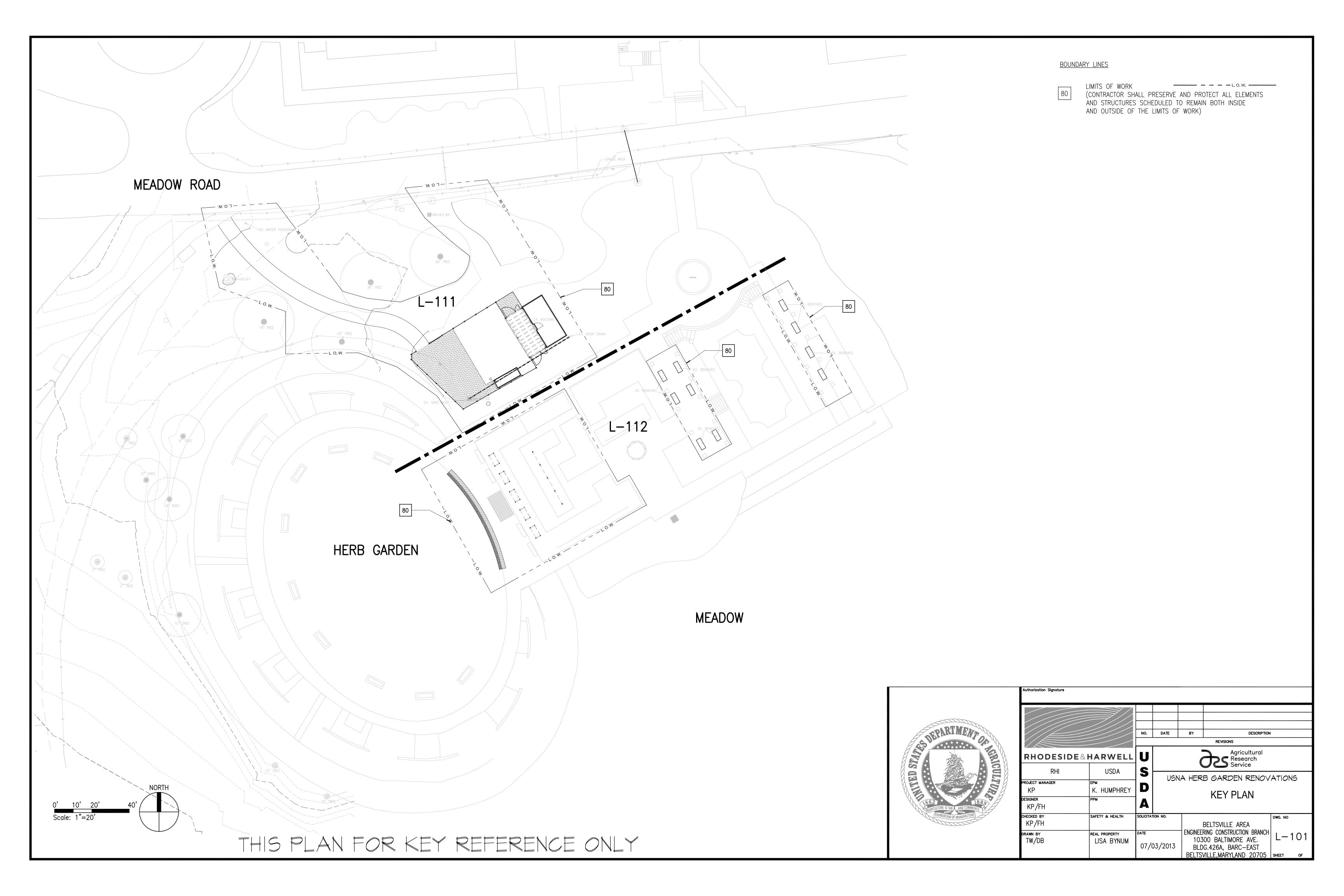


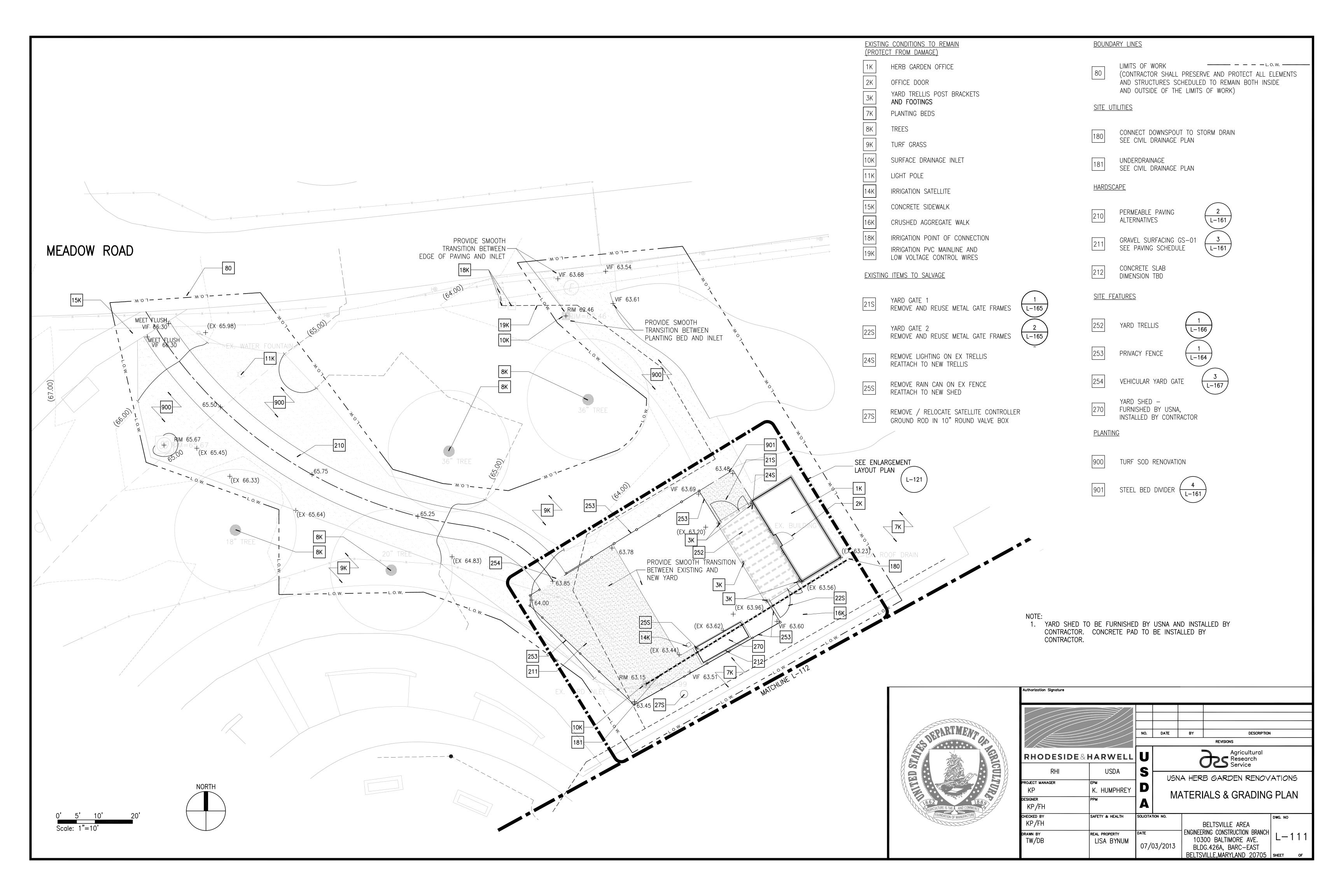


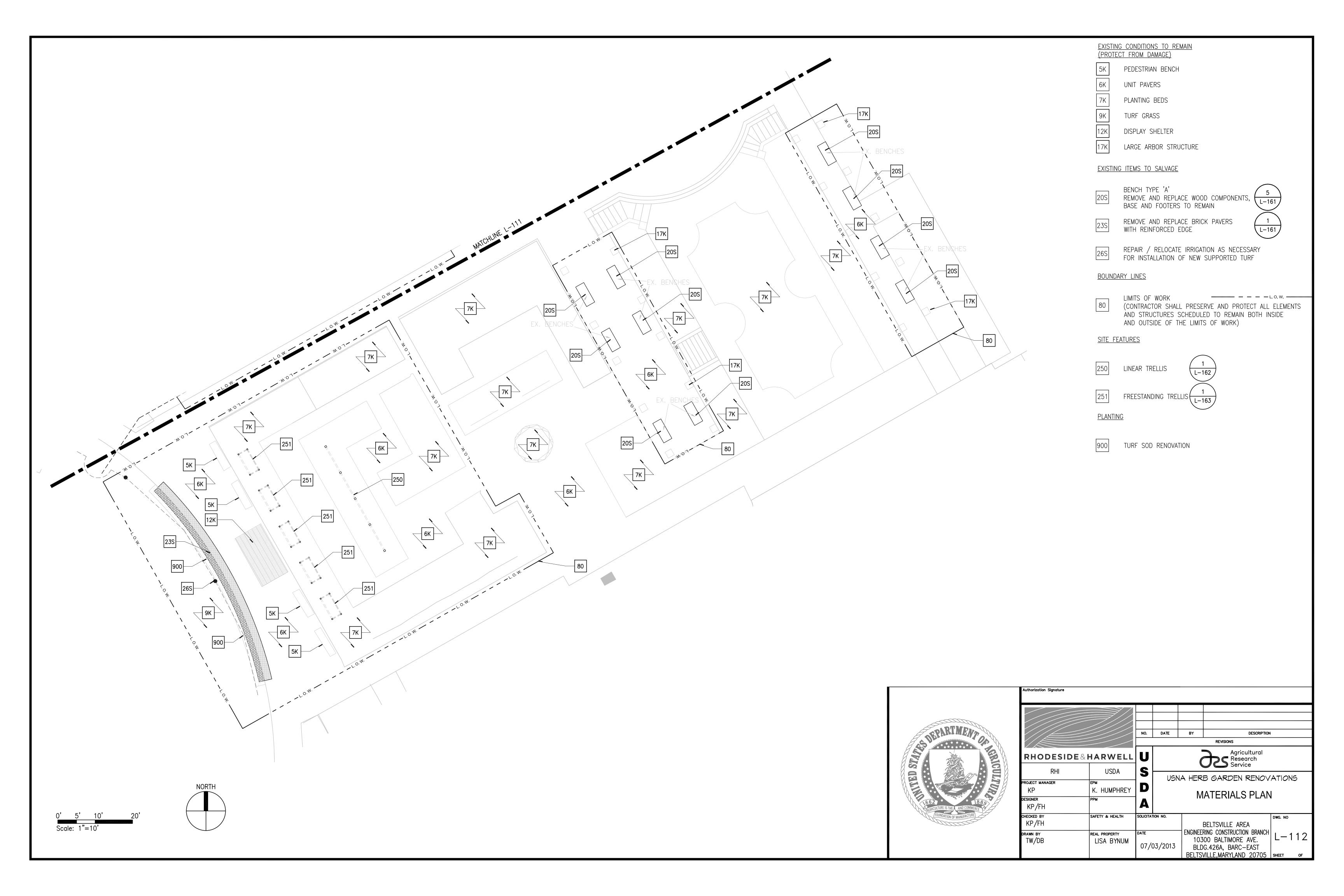
ROOF DRAIN CONNECTION C-111 C-161 SCALE NTS NON-PERFORATED PVC PIPE C-111 C-161 SCALE NTS

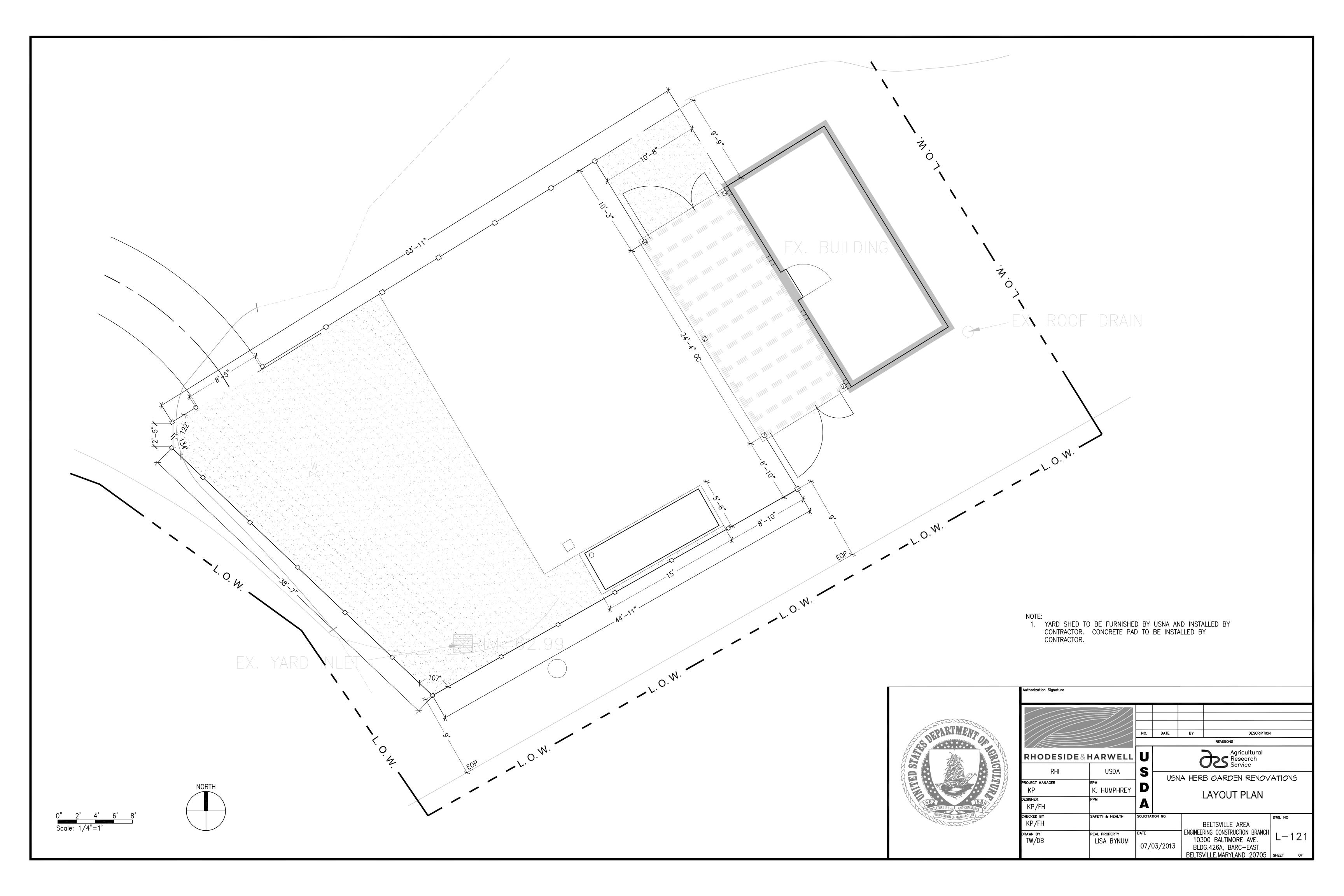
1 PIPE CONNECTION TO STORM STRUCTURE C-111 C-161 SCALE NTS

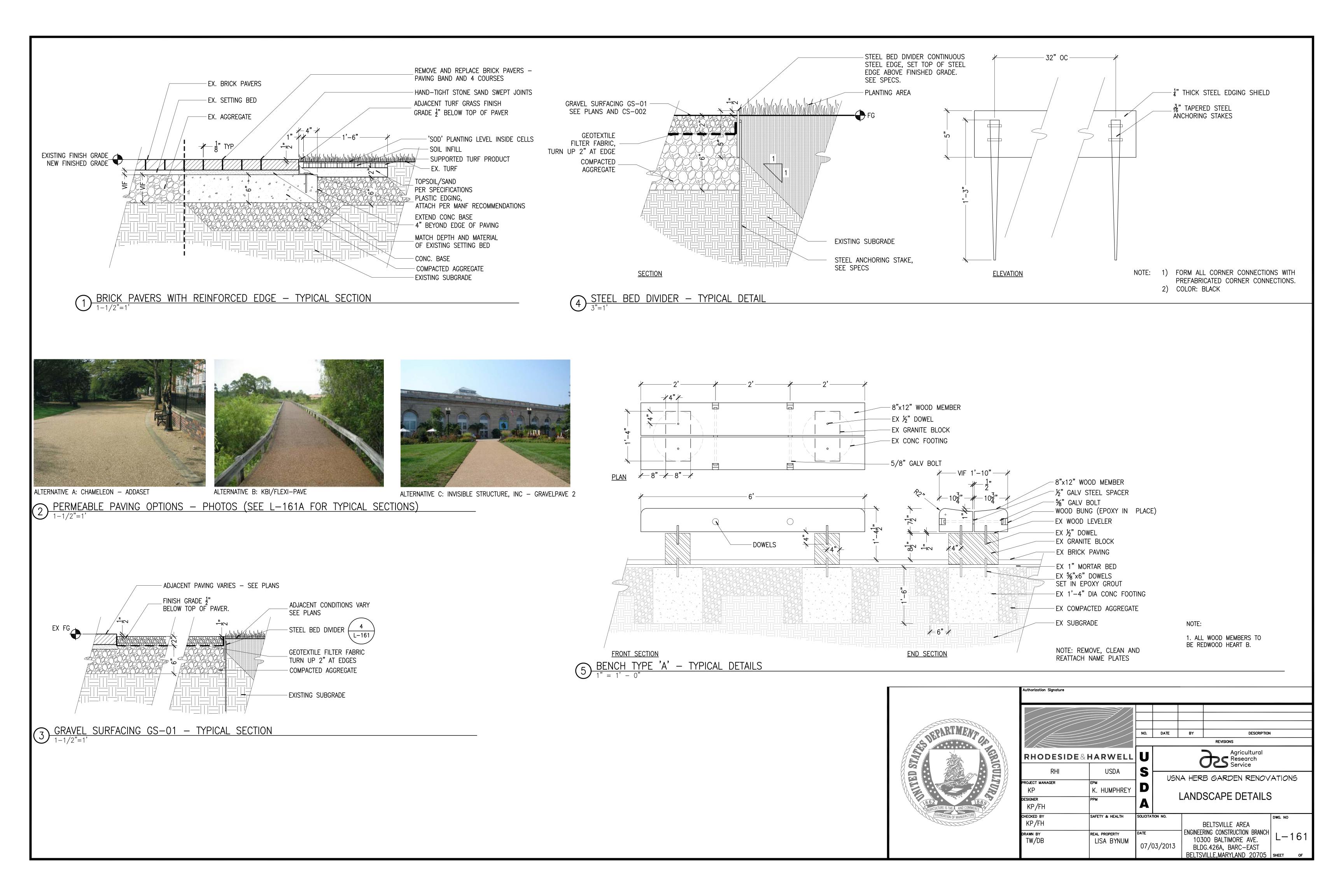


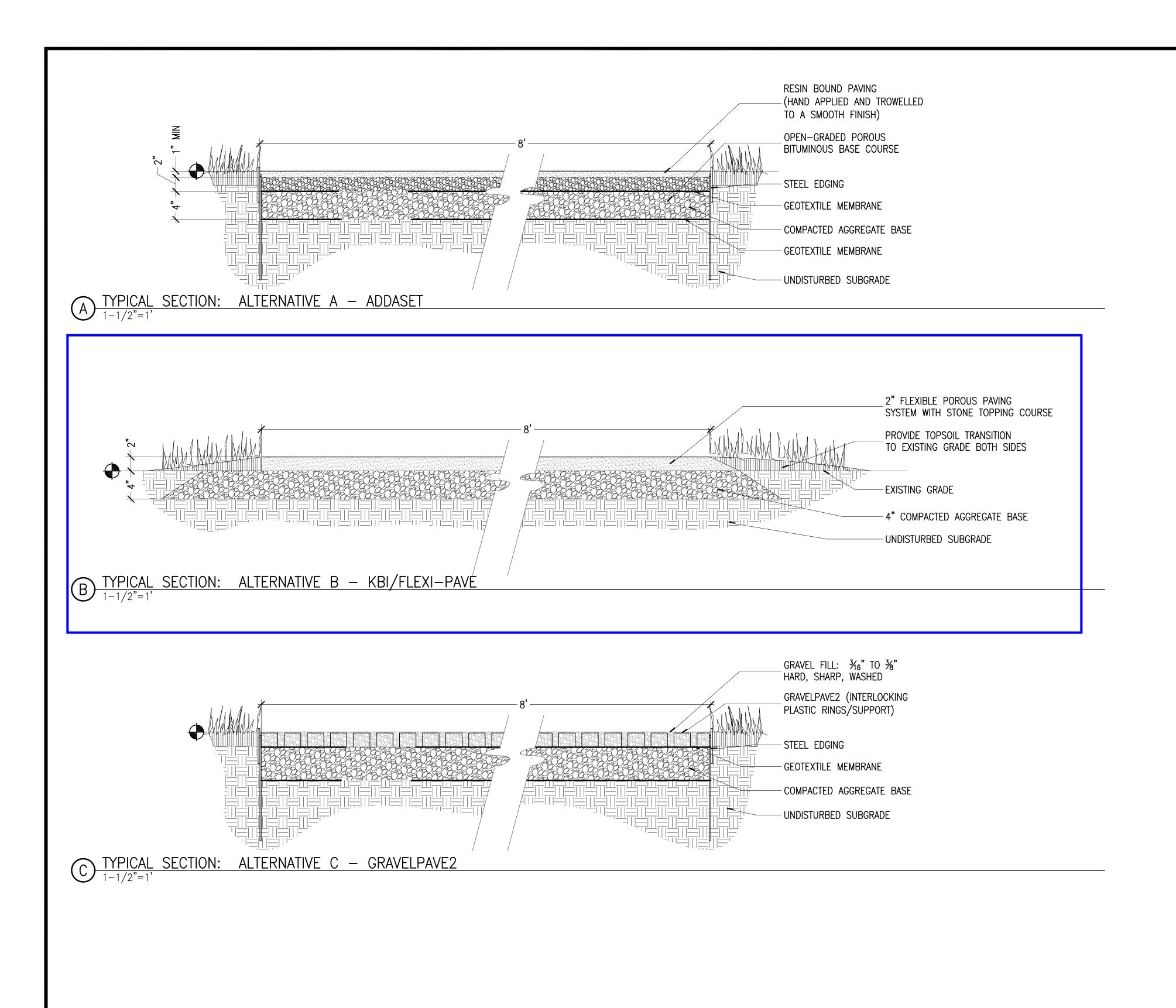


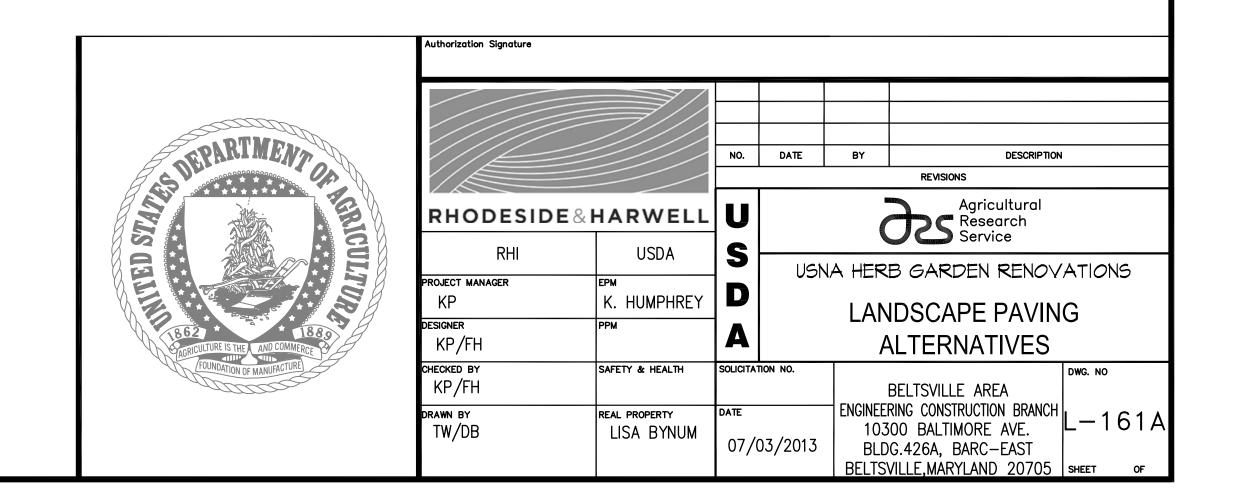


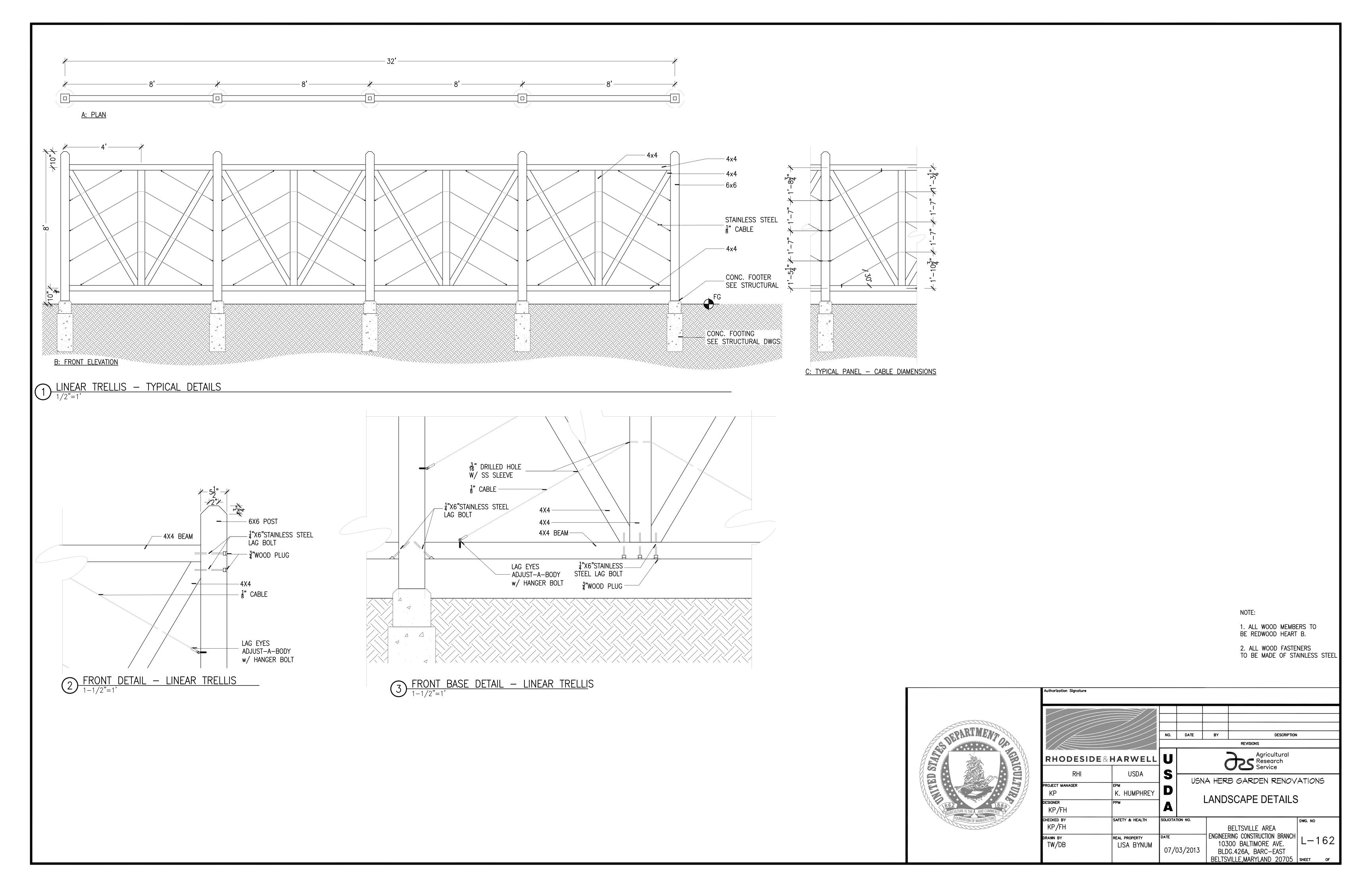


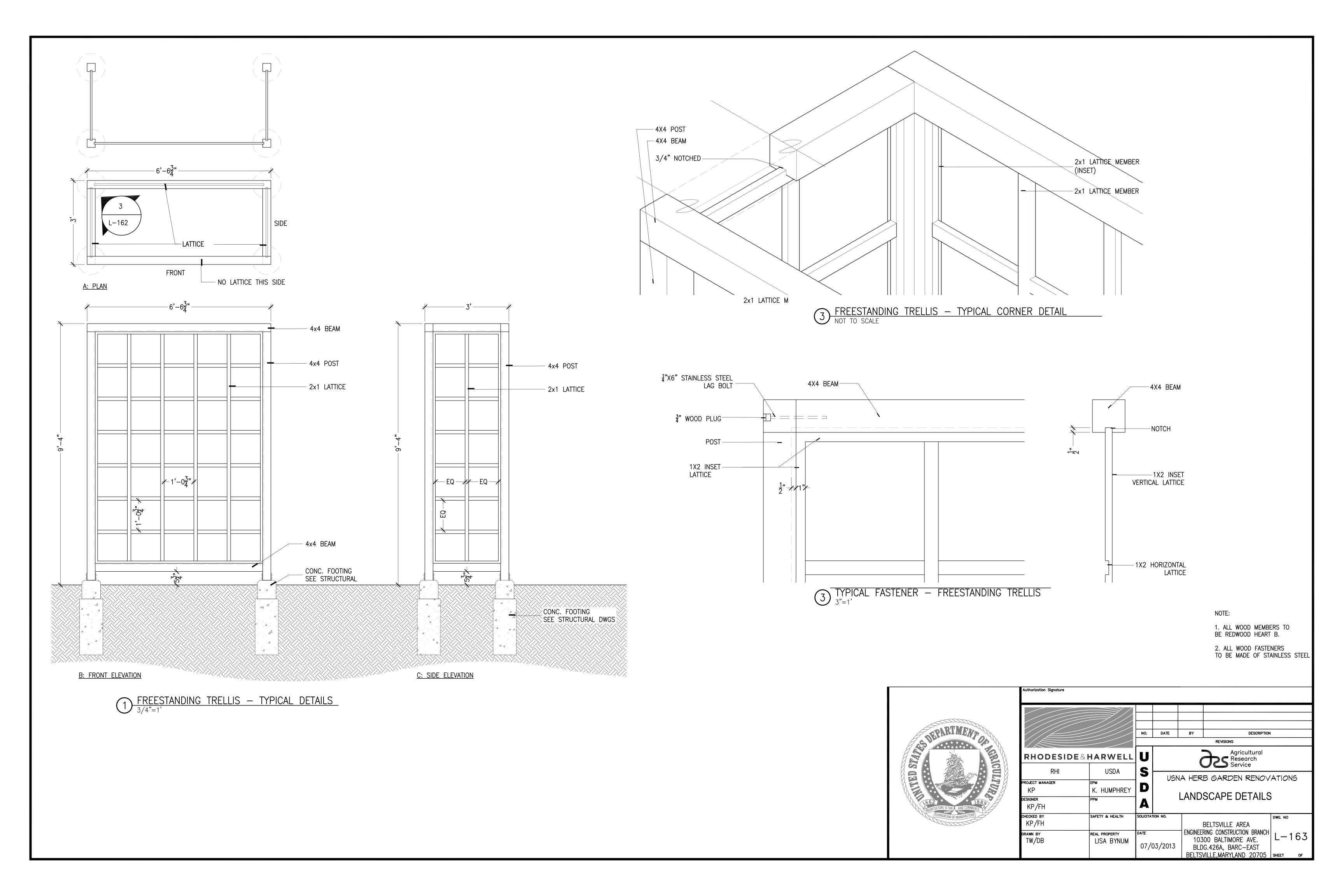


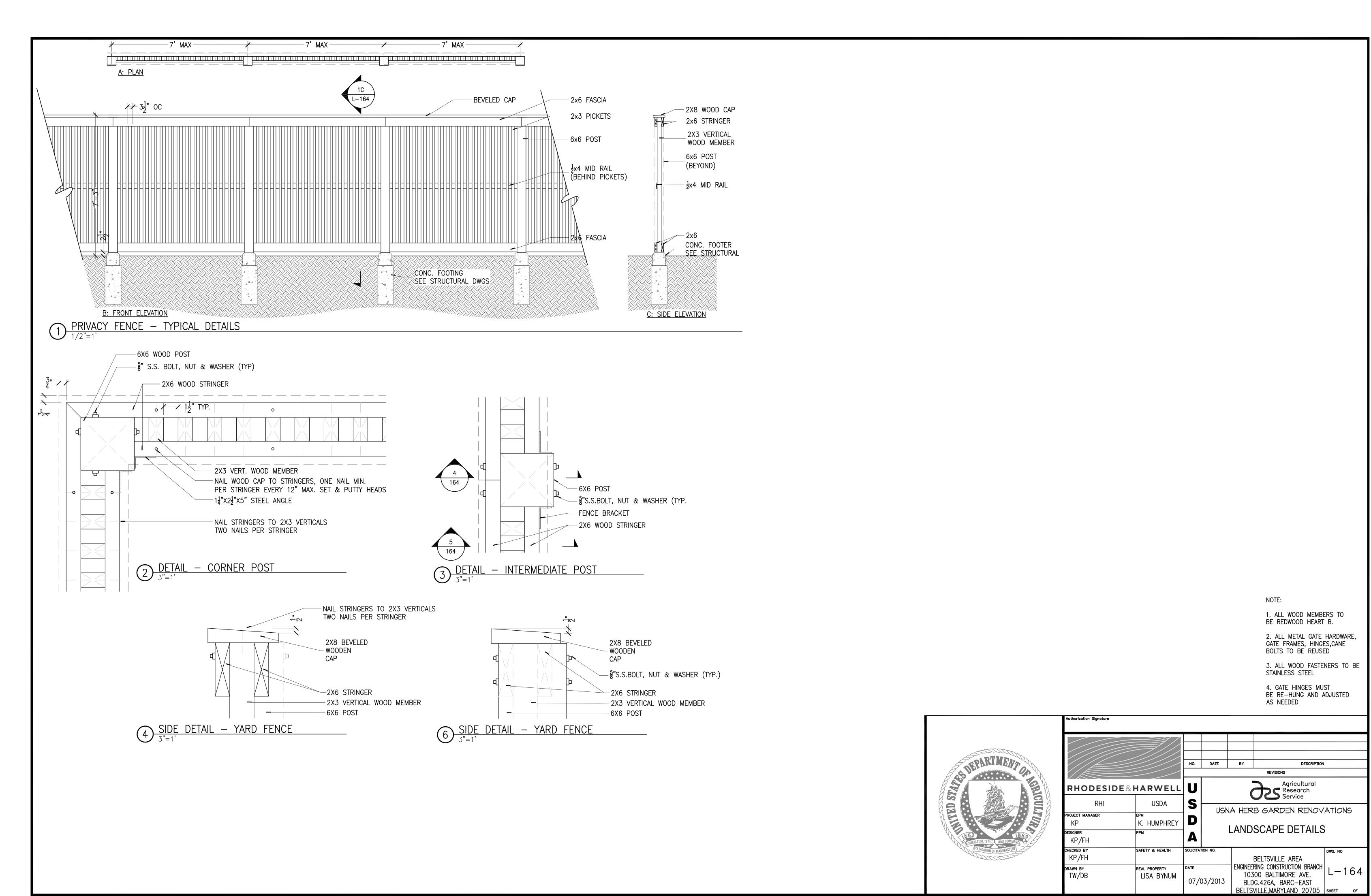




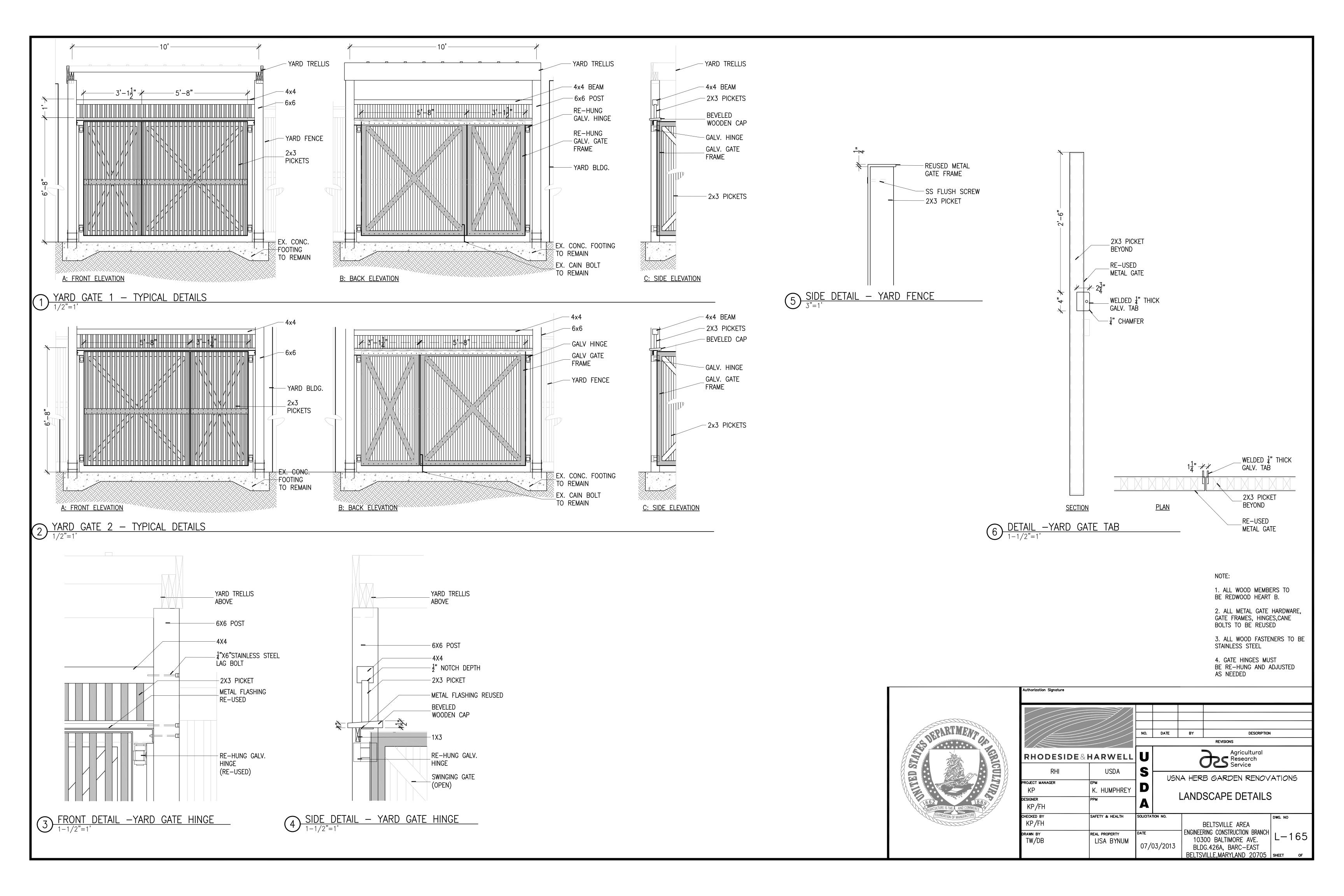


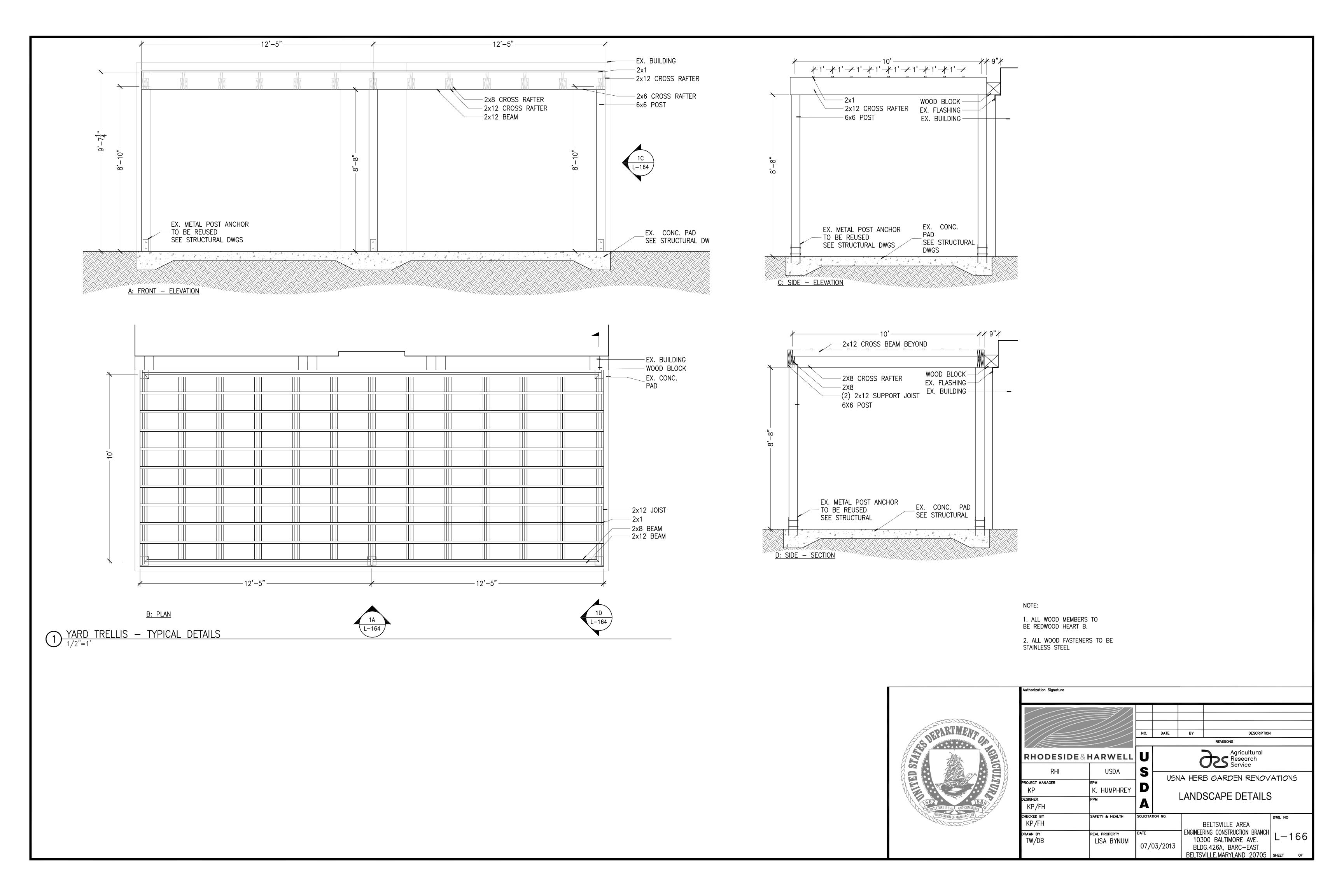


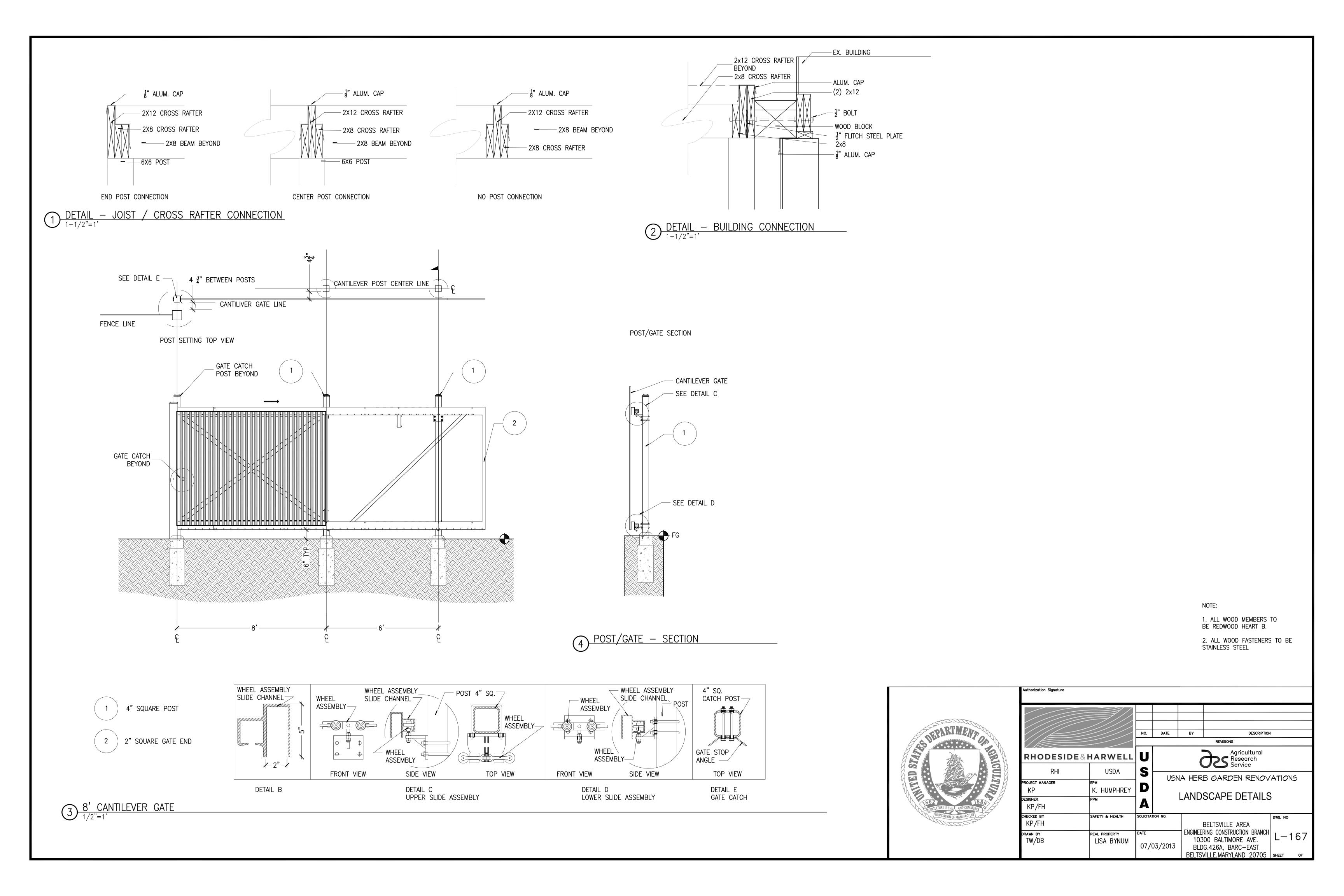


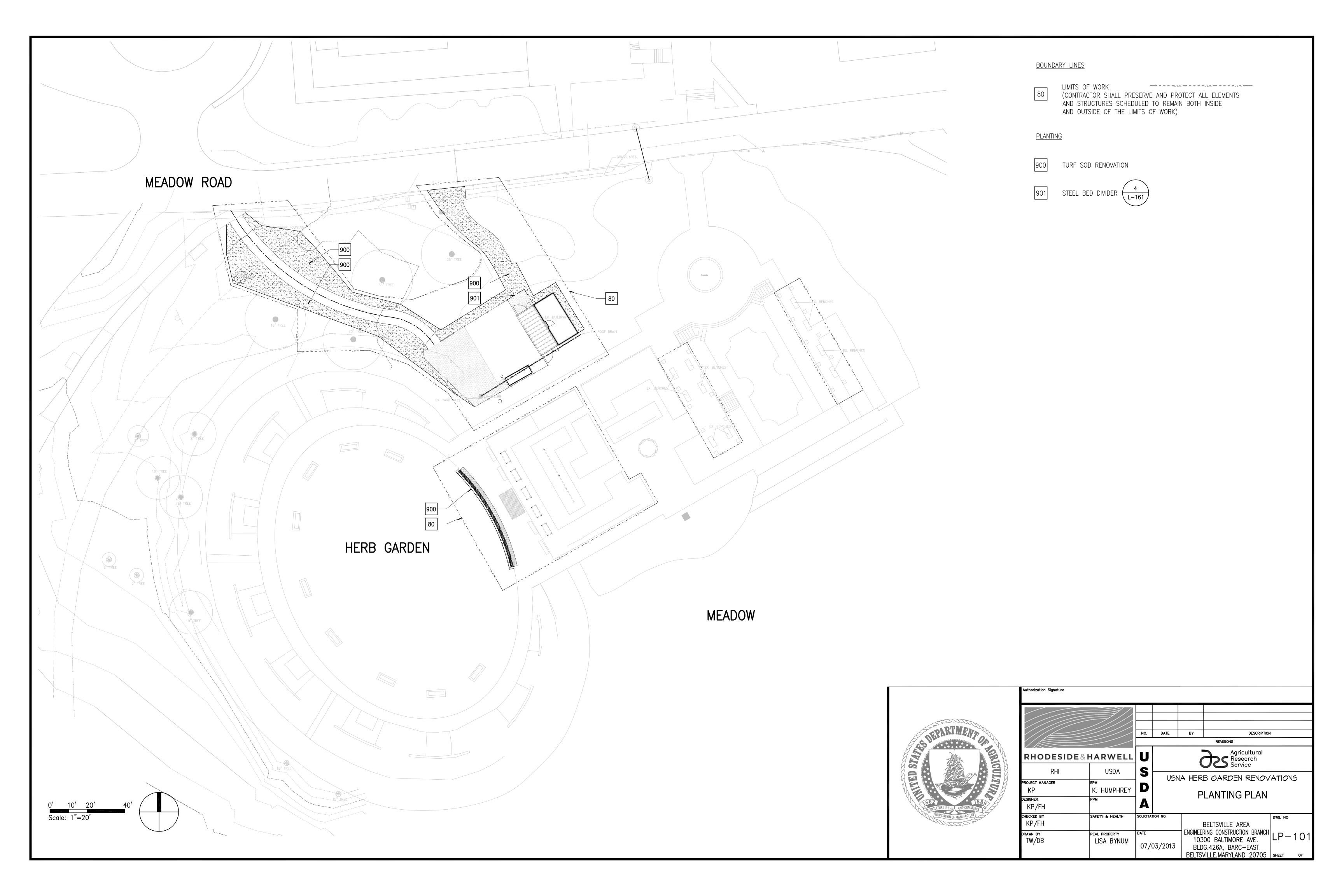


07/03/2013









GENERAL NOTES

- 1. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH LANDSCAPE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE 2008 DCRA BUILDING CODE, BASED ON 2006 INTERNATIONAL BUILDING CODE.
- 2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING, SHEETING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION HIRED BY THE CONTRACTOR WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.
- DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR HIS EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. PLEASE NOTIFY THE ENGINEER OF ANY CONFLICTS. REFER TO THE SPECIFICATION FOR WORK NOT SHOWN ON THE DRAWINGS.

FOUNDATIONS

- . BUILDING FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL HAVING MINIMUM BEARING CAPACITY OF 1500 PSF. AS SPECIFIED BY THE BUILDING CODE WHEN NO GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED. ADEQUACY OF BEARING STRATUM SHALL BE VERIFIED IN FIELD PRIOR TO PLACING CONCRETE. ADJUST BOTTOM OF FOOTING ELEVATIONS AS REQUIRED.
- 2. DO NOT PLACE BACKFILL AGAINST BASEMENT WALLS UNTIL ALL FLOORS BRACING THESE WALLS ARE IN PLACE AND HAVE ATTAINED THEIR 28 DAY STRENGTH.
- 3. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 2'-6" BELOW FINAL GRADE.
- 4. CONCRETE SHALL BE POURED IN DRY EXCAVATIONS. CONTRACTOR SHALL NOTE SOIL AND WATER CONDITIONS AS SHOWN BY BORINGS AND DEPTHS OF FOOTING AS SHOWN ON FOUNDATION PLANS.

<u>CONCRETE</u>

- ALL CONCRETE WORK SHALL CONFORM TO THE ACI FOLLOWING GOVERNING STANDARDS. AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- (ACI 318), LATEST EDITION.
- ACI "MANUAL OF CONCRETE PRACTICE" LATEST EDITION
- CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- 2. ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR A775 EPOXY COATED WHEN CALLED OUT ON PLAN. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT", (ACI 315), LATEST EDITION.
- 4. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.
- COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6". CORE DRILLING OF WALLS AND SLABS SHALL NOT BE PERMITTED.
- 6. ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
- 7. PROVIDE CLEARANCE FROM FACE OF CONCRETE TO REINFORCEMENT AS FOLLOWS:
 - SLABS"¾" FOOTINGS: 3"
- 8. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
- 9. CLEAN AND ROUGHEN TO ¼" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.
- 10. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERT AND EMBED ITEMS.
- 11. REINFORCING DOWELS, WATERSTOPS AND OTHER EMBED ITEMS SHALL BE INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF EMBEDDED ITEMS IS NOT PERMITTED.

STRUCTURAL STEEL

ENGINEER OF RECORD.

- 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
 - A. AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST
 - B. THE AMERICAN WELDING SOCIETY (AWS D1.1) "CODE FOR WELDING IN BUILDING CONSTRUCTION," LATEST EDITION.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - A. ANGLES AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
 - B. BOLTED CONNECTIONS OF BEAMS/GRIDERS ARE TO BE DESIGNED AS FOLLOWS: a. STANDARD BEAM TO BEAM/GRIDER: A325 OR A490 BEARING TYPE BOLTS (34" DIAMETER MINIMUM).
 - b. BEAM/GIRDER TO COLUMN CONNECTIONS: A325-SC OR A490-SC TYPE BOLTS (34" DIAMETER MINIMUM). C. ANCHOR BOLTS: ASTM F1554, GRADE 36.
- 3. MINIMUM WELD SIZE IS χ " FILLET UNLESS NOTED OTHERWISE.
- 4. FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE STRUCTURAL
- WELDING SHALL BE PERFORMED BY CERTIFIED LICENSED, AWS-QUALIFIED WELDERS. ELECTRODES SHALL BE AWS 5.1, CLASS E70XX (USE LOW HYDROGEN ELECTRODES FOR A572, GRADE 50 STEEL).
- HOT DIP GALVANIZING SHALL CONFORM TO ASTM A123, REPAIR SCRATCHES OR ABRADED GALVANIZED SURFACE WITH ZINC RICH
- SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.

PAINT. ALL EXTERIOR EXPOSED STEEL AND STEEL SUPPORTING EXTERIOR SHALL BE HOT DIPPED GALVANIZED.

8. PROVIDE MECHANICALLY GALVANIZED BOLTS FOR EXTERIOR APPLICATIONS.

FRAMING LUMBER

- 1. ALL FRAMING LUMBER WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS: A. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, "TIMBER CONSTRUCTION MANUAL" LATEST EDITION. B. NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION," LATEST EDITION.
- 2. LUMBER SHALL CONFORM TO THE FOLLOWING SPECIE AND GRADE: POST AND TIMBER: REDWOOD HEART B (#2 MIN.) BEAMS AND STRINGERS: REDWOOD HEART B (#2 MIN.)
- 3. ALL WOOD FRAMING INCLUDING DETAILS FOR BRIDGING, BLOCKING, FIRE STOPPING, ETC., SHALL CONFORM TO THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND ITS SUPPLEMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NFPA "MANUAL FOR HOUSE FRAMING" OR THE GOVERNING LOCAL/STATE BUILDING CODE.
- 4. FASTENING SHALL BE IN ACCORDANCE WITH THE MOST RESTRICTIVE OF: THE DISTRICT OF COLUMBIA BUILDING CODE, (LATEST EDITION), OR THE MANUFACTURER'S RECOMMENDED FASTENING SCHEDULES.
- 5. BUILT UP BEAMS LESS THAN 8" DEEP SHALL BE SPIKED TOGETHER WITH 2 16D NAILS @16"o/c. BUILT UP BEAMS GREATER THAN 8" DEEP SHALL BE SPIKED TOGETHER WITH 3 - 16D NAILS @16" O/C.
- 6. NO NEW OR EXISTING BEAMS SHALL BE CUT OR NOTCHED WITHOUT APPROVAL.

RSA STANDARD ABBREVIATIONS

	NON STANDAND		
ADD'L	ADDITIONAL	INFO	INFORMATION
ADJ.	ADJACENT	INT	INTERIOR
A/E	DESIGN TEAM OF RECORD	JT.	JOINT
ÁLT.	ALTERNATE	K	KIPS
ANCH.	ANCHOR	LB.	POUND
APPROX.	APPROXIMATE/APPROXIMATLEY	L.L.	LIVE LOAD
ARCH.	ARCHITECTURAL/ARCHITECT	LLH	LONG LEG HORZONTAL
B.O.	BOTTOM OF	LLV	LONG LEG VERTICAL
BLDG.	BUILDING		
		L.P.	LOW POINT
BM.	BEAM	L.W.	LIGHTWEIGHT
BOT.	BOTTOM	MAS	MASONRY
BRG.	BEARING	MAX	MAXIMUM
BSMT.	BASEMENT	MECH	MECHANICAL
CANT.	CANTILEVER	MEP	MECH., ELECT., PLUMBING, & F.P.
CFS.	COLD FORMED STEEL	MFR	MANUFACTURER
C.I.P.	CAST IN PLACE	MIN	MINIMUM
C.J.	CONTRACTION JOINT	MISC	MISCELLANEOUS
CLG.	CEILING	M.O.	MASONRY OPENING
CLR.	CLEAR	N.F.	NEAR FACE
CMU	CONCRETE MASONRY UNIT		
COL.		N.I.C.	NOT IN CONTRACT
	COLUMN	NO.	NUMBER
COMPS.	COMPOSITE	N.S.	NEAR SIDE
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONST.	CONSTRUCTION	N.W.	N.W. NORMAL WEIGHT
CONT.	CONTINUOUS	0/C. 0.D.	ON CENTER
COORD.	COORDINATE/COORDINATION	0.D.	OUTSIDE DIAMETER
CONTR.	CONTRACTOR	0.F.	OUTSIDE FACE
COTR.	CONTRACT OFFICER'S TECHNICAL REP.	OPNG	OPENING
CTR.	CENTER	OPP	OPPOSITE
DBL.	DOUBLE	PC.	PIECE
DEMO	DEMOLITION/DEMOLISH	PED	PEDESTAL
DTL.	DETAIL	PERP	PERPENDICULAR
DIA.	DIAMETER	PL.	PLATE
DIAG.	DIAGONAL	PLF	POUNDS PER LINEAR FOOT
DIM.	DIMENSION	PREFAB	PREFABRICATED
D.L.	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DN.	DOWN	PSI	POUNDS PER SQUARE INCH
DWG(S)	DRAWING(S)	REINF	REINFORCE(D), REINFORCEMENT
DWL.	DOWEL	REQ'D	REQUIRED
EA.	EACH	REV D	REVISION
E.O.	EDGE OF	SCHED	SCHEDULE
E.F.	EACH FACE		
		SECT	SECTION
EXP. JT.	EXPANSION JOINT	SIM	SIMILAR
EL.	ELEVATION	S.O.G.	SLAB ON GRADE
ELEC.	ELECTRICAL	SPEC	SPECIFICATION
ELEV.	ELEVATOR	SQ.	SQUARE
EMBED.	EMBEDMENT	S.S.	STAINLESS STEEL
ENGR.	ENGINEER	STD	STANDARD
E.O.R.	ENGINEER OF RECORD	STIFF	STIFFENER
EQ.	EQUAL	STL.	STEEL
EXP.	EXPANSION	S-W	SHORT WAY
EXT.	EXTERIOR	SYM.	SYMMETRIC
		T.O.	TOP OF
E.W.	EACH WAY	T & B	TOP & BOTTOM
FDN.	FOUNDATION	TEMP.	TEMPORARY/TEMPERATURE
FIN.	FINISH		
FLR.	FLOOR	TYP.	TYPICAL
FRMG.	FRAMING	U.N.O.	UNLESS NOTED OTHERWISE
F.S.	FAR SIDE	VERT.	VERTICAL
FT.	FEET	W/	WITH
FTG.	FOOTING	W.P.	WORK POINT
GA.	GAGE	W.W.F.	WELDED WIRE FABRIC
GALV.	GALVANIZED	#	NUMBER/SIZE
G.B.	GRADE BEAM	# & ø	CENTERLINE
HDR.	HEADER	ø	DIAMETER
		ŕ	PLATE/PROPERTY LINE
HGR.	HANGER	'L	1 Billy 1 NOI EIGHT LINE
HORIZ.	HORIZONTAL		
H.P.	HIGH POINT		
HT.	HEIGHT		
HVAC	HEATING, VENTILATION, & AIR CONDITIONING		
I.D.	INSIDE DIAMETER		
I.F.	INSIDE FACE		
I.J.	ISOLATION JOINT		

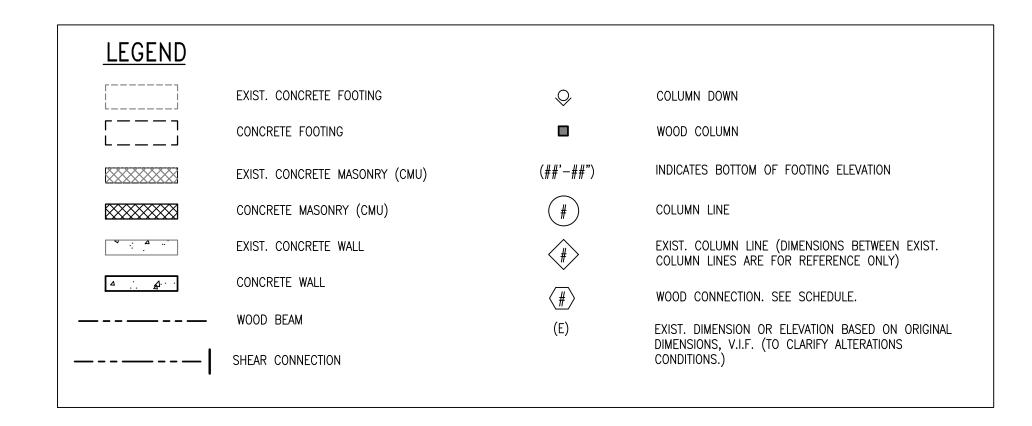
RSA STANDARD ABBREVIATIONS FOR EXISTING STRUCTURES

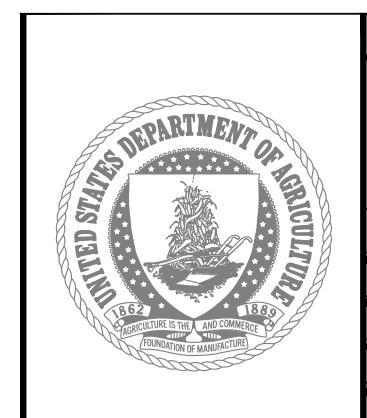
C.I.	CAST IRON	T.C.	TERRACOTTA
(E)	EXISTING MEMBER OR DIMENSION	V.I.F.	VERIFY IN FIELD
EXIST.	EXISTING		

	K2V ZIVNOVKO VRRKEAIV	ALIONS FOR MOOD SIR	COCTURES
ACT.	ACTUAL		
G-LAM	GLUELAMINATED LUMBER	P.T.	PRESERVATIVE TREATED
LSL	LAMINATED STRAND LUMBER	R.O.	ROUGH OPENING
LVL	LAMINATED VENEER LUMBER	SQ.	SQUARE
NOM.	NOMINAL	T & G	TONGUE AND GROOVE

	RSA STANDARD ABBREVIATIONS	FOR WOOD STRUCT	TURES
ACT.	ACTUAL		
G-LAM	GLUELAMINATED LUMBER	P.T.	PRESERVATIVE TREATED
LSL	LAMINATED STRAND LUMBER	R.O.	ROUGH OPENING
LVL	LAMINATED VENEER LUMBER	SQ.	SQUARE
NOM.	NOMINAL	T & G	TONGUE AND GROOVE
PSL	PARALLEL STRAND LUMBER		

DESIGN LOAD PARAMETERS GOVERNING CODE: 2008 DCRA BUILDING CODE ROOF SNOW LOAD: 30 PSF Pg GROUND SNOW LOAD 30 PSF P_f FLAT ROOF SNOW LOAD C_e SNOW EXPOSURE FACTOR I_s SNOW LOAD IMPORTANCE FACTOR 1.25 Ct THERMAL FACTOR WIND LOAD: 90 MPH V BASIC WIND SPEED (3-SEC. GUST) Iw WIND IMPORTANCE FÀCTOR 1.0 WIND EXPOSURE(S) GC PI INTERNAL PRESSÙRE COEFF. 20 PSF q_H C&C VELOCITY PRESSURE AT MEAN ROOF HEIGHT





Authorization Signature ROBER	T SILMAN					
ASSOC		NO.	DATE	BY	DESCRIPTION	
STRUCTURAL ENGINEERS 1053 31st Street NW		REVISIONS				
Washington, DC 20007 P 202.333.6230 F 202.318.3015) C		Ċ	Agricultural Research Service	
RSA	USDA	USNA HERB GARDEN RENOVATIONS				
PROJECT MANAGER JM	K. HUMPHREY					
DESIGNER GS	PPM	A			S & ABBREVIATIONS	
CR/GS	SAFETY & HEALTH	SOLICITAT	TON NO.		BELTSVILLE AREA	
drawn by BB	REAL PROPERTY LISA BYNUM	07/0	03/2013	1030 BLD	RING CONSTRUCTION BRANCH OO BALTIMORE AVE. G.426A, BARC-EAST VILLE,MARYLAND 20705 SHEET OF	

