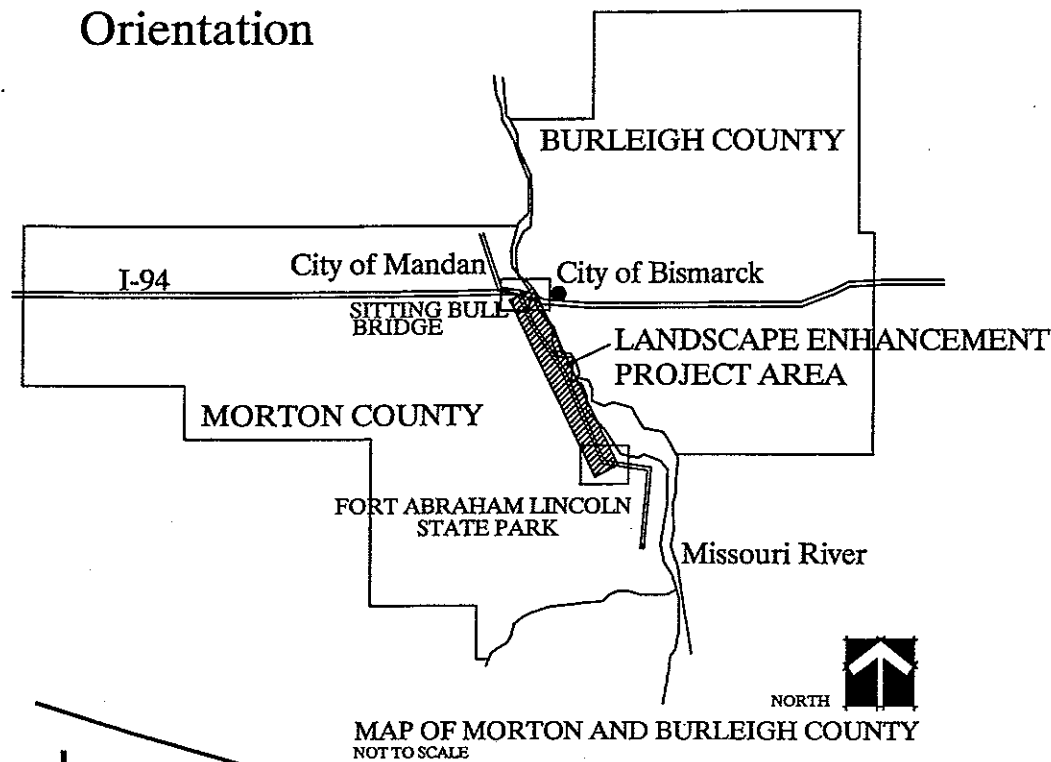


Orientation



JOB# 19

State of North Dakota  
Department of Transportation

# Fort Abraham Lincoln State Park Mandan, ND

## Bikeway Landscape Enhancement Project

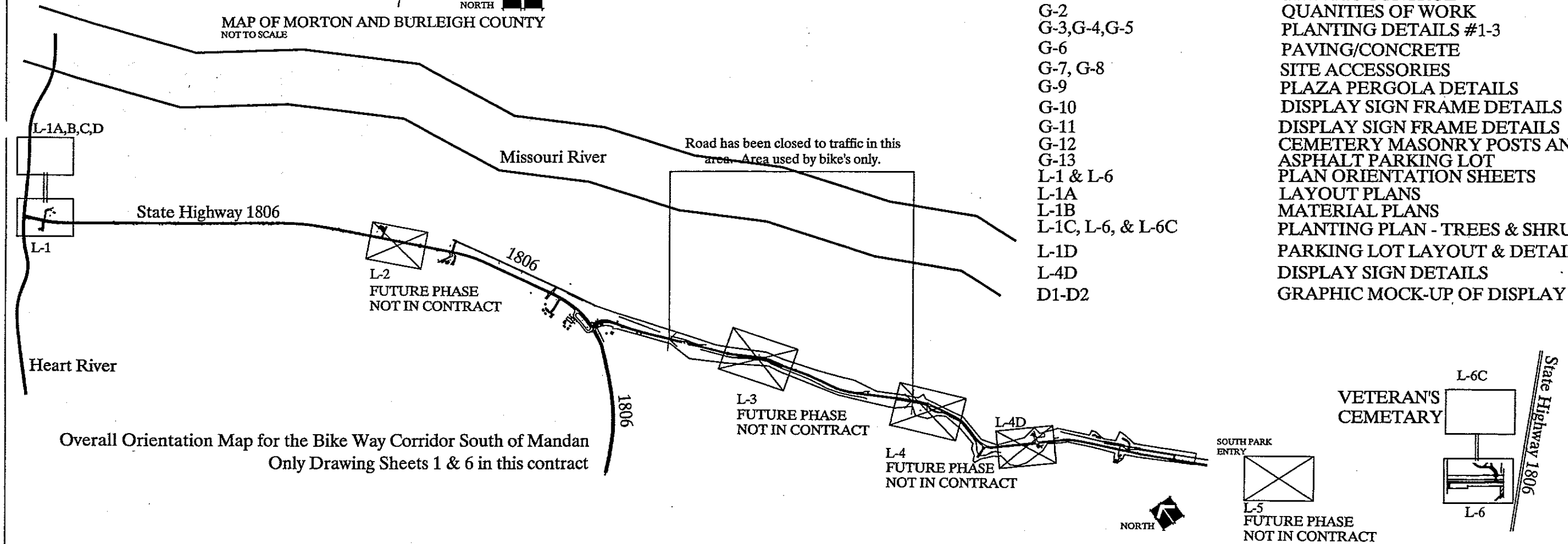
TES-1-806(026)062

*Dennis Colliton*

I, Dennis Colliton, a Landscape Architect, certify that the following drawing sheets and specifications are prepared in a accurate and detailed order.

### SHEET INDEX

COVERSHEET	TITLE SHEET/ORIENTATION
G-1	TRAFFIC CONTROL
G-2	QUANTITIES OF WORK
G-3,G-4,G-5	PLANTING DETAILS #1-3
G-6	PAVING/CONCRETE
G-7, G-8	SITE ACCESSORIES
G-9	PLAZA PERGOLA DETAILS
G-10	DISPLAY SIGN FRAME DETAILS
G-11	DISPLAY SIGN FRAME DETAILS
G-12	CEMETERY MASONRY POSTS AND FENCE
G-13	ASPHALT PARKING LOT
L-1 & L-6	PLAN ORIENTATION SHEETS
L-1A	LAYOUT PLANS
L-1B	MATERIAL PLANS
L-1C, L-6, & L-6C	PLANTING PLAN - TREES & SHRUBS
L-1D	PARKING LOT LAYOUT & DETAILS/SPECS
L-4D	DISPLAY SIGN DETAILS
D1-D2	GRAPHIC MOCK-UP OF DISPLAY PANELS



Overall Orientation Map for the Bike Way Corridor South of Mandan  
Only Drawing Sheets 1 & 6 in this contract

NOTE: THE WORK INDICATED ON THESE PLANS AND WITHIN THE SPECIFICATIONS  
INCLUDE AREAS BETWEEN STATION 30+00 THRU STATION 344+00 - ADDITIONAL AREAS ARE AVAILABLE

GOVERNING SPECIFICATIONS  
Standard Specifications adopted by the North Dakota Department of Transportation, September 20, 1997; Standard Drawings currently in effect; and other Contract Provisions submitted herein.

**Quantities of Work for Bikeway Landscape Enhancements**  
Prepared for the NDDOT

Specification Sections	Size	Unit Ea	Qty	L1	L6
<b>Division 1</b>					
Specification Code Description/Size					
<b>01000 - Administration</b>					
103	0100	Contract Bonds	LS 1	1/2	1/2
702	0100	Mobilization	LS 1	1/2	1/2
704	1100	Traffic control	LS	3/4	1/4
<b>Division 2</b>					
Specifications Code Description/Size					
<b>02000 - Site Work</b>					
203	0099	Unclassified Excavation	LS 1	3/5	2/5
<b>02515 Concrete Work</b>					
Specifications Code Description/Size					
750	0099	Concrete Sidewalk	SF 350	350	
<b>02518 Pre-cast Paving</b>					
Specifications Code Description/Size					
750	0095	Sidewalk Paving Blocks	SY 75	75	
<b>Parking Lot</b>					
Specifications Code Description/Size					
203	0138	Common Excavation - Subcut	CY 200	200	
230	0161	Subgrade Prep Type A - 8"	SY 860	860	
408	0175	Hot Bituminous Pavement Class 27	SY 860	860	
714	5015	Pipe Corr Steel 18"	LF 65	65	
714	5810	End Section Corr Steel 18"	EA 2	2	
203	0119	Topsoil Imported (4")	SY 185	185	
748	0580	Curb Concrete Precast Section (Parking Blocks)	EA 16	16	
762	1104	Pvmt MK Painted 4" Line	LF 500	500	
752	0995	FRENCH TERMINAL WOOD POSTS	EA 31	31	
202	0123	Remove & Salvage Gravel	CY 100	100	
<b>Wood/Steel Frame Work</b>					
Specifications Code Description/Size					
970	400	Pergola	LF 40	40	
<b>Division 12 Specialized Items/Site Accessories</b>					
Specifications Code Description/Size					
970	300	Benches	1 ea 2	2	
930	9940	Historical Display - Small Signs	LS 1	1	
970	0002	Landscape edging (6" Steel)	ln foot 120	120	
970	450	Bike Racks	1 ea 4	4	
970	425	Picnic Tables	1 ea 1	1	
970	320	Trash Receptacle	1 ea 3	3	
752	0850	Ornamental Fence	LF 360		360
<b>02931 - Seeding of Disturbed Area</b>					
Specifications Code Description/Size					
708	2280	Seeding Type B-CLASS V	ACRES 1	5/8	3/8
<b>02940 Trees and Shrubs</b>					
DECIDUOUS TREES					
970	2050	Common Hackberry <i>Celtis occidentalis</i>	2"ca b&b 1 ea 2	2	

970	2090	Fallgold Ash <i>Fraxinus nigra 'Fallgold'</i>	2"ca b&b 1 ea 1	1	
970	2095	Prairie Dome Ash <i>Fraxinus pennsylvanica 'Leeds'</i>	2"ca cont. gr 1 ea 3	3	
970	2100	Dakota Centennial Ash <i>Fraxinus pennsylvanica 'Wahpeton'</i>	2"ca cont. gr 1 ea 3	3	
970	2250	Robusta Cottonwood <i>Populus x canadensis 'Robusta'</i>	2"ca cont. gr 1 ea 2	2	
970	2330	Bur Oak <i>Quercus macrocarpa</i>	2"ca cont. gr 1 ea 6		6
<b>DECIDUOUS SHRUBS</b>					
Specifications Code Description/Size					
970	5025	Regent Juneberry <i>Amelanchier alnifolia 'Regent'</i>	1 gal cont. gr 1 ea 4	4	
970	5035	Glossy Black Chokeberry <i>Aronia melanocarpa elata</i>	1 gal cont. gr 1 ea 8	8	
970	5230	Alpine Currant <i>Ribes alpinum</i>	1 gal cont. gr 1 ea 3	3	
970	5260	Silver Buffaloberry <i>Shepherdia argentea</i>	1 gal cont. gr 1 ea 2	2	
970	5290	Dwarf Korean Lilac <i>Syringa meyeri 'Palibin'</i>	1 gal. cont. g l ea 14		14
970	5345	Bailey Compact Viburnum <i>Viburnum trilobum 'Bailey compact'</i>	1 gal cont. gr 1 ea 15	6	9
970	5245	Compact Purple Willow <i>Salix purpurea 'Gracilis'</i>	1 gal cont. gr 1 ea 1	1	
970	5015	Dakota Gooseberry <i>Ribes x 'Dakota'</i>	1 gal. cont. g l ea 2	2	
970	5055	White Snowberry <i>Symphoricarpus albus</i>	1 gal cont. gr 1 ea 2	2	
<b>CONIFEROUS SHRUBS</b>					
Specifications Code Description/Size					
970	5567	Winter Blue Juniper <i>Juniperus scapularum 'Winter Blue'</i>	1 gal cont. gr 1 ea 14		14
<b>HARDY SHRUB ROSES</b>					
Specifications Code Description/Size					
970	6670	Prairie Wild Rose <i>Rosa arkansana</i>	1 gal cont. gr 1 ea. 7	7	
<b>02950 Perennials</b>					
Specifications Code Description/Size					
<b>GRASSES AND PERENNIALS</b>					
970	6120	Summer Pastels Yarrow <i>Achillea millefolium 'Summer Pastels'</i>	Tray of 6 TRAY 18	18	
970	6260	Showy Goldenrod <i>Solidago speciosa</i>	Tray of 6 TRAY 16	16	
970	7000	Little Blue Stem <i>Andropogon scoparius</i>	Tray of 6 TRAY 2	2	
970	6315	Soapweed <i>Yucca glauca</i>	1gal. cont. gr 1 ea 36	36	
970	6330	Sage <i>Salvai officinalis 'Aurea'</i>	1 gal cont. gr 1 ea 5	5	
970	6335	Sage Golden <i>Salvai officinalis 'Aurea'</i>	1 gal cont. gr 1 ea 6	6	
970	6340	Sage Tricolor <i>Salvai officinalis 'Tricolor'</i>	1 gal cont. gr 1 ea 12	12	

AREA	STATE	FED. AID PROJ. NO.
8	N.D.	TES-1-806(026)062

North Dakota  
 Department of Transportation  
**Fort Abraham Lincoln State Park**  
 Bikeway Landscape Enhancement Project  
 TES-1-806(026)067

Provided by North Dakota State University  
 Landscape Architecture Program  
 In Cooperation  
 with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	6/18/98
HLL	8/17/98
HLL	12/23/98
HLL	10/21/99
HLL	10/15/99
CHC	12/21/99
DCC	2/16/00

Sheet No.  
**G-2**

RFA REGION	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)067 062

**NOTES:**

- SEE ALL GENERAL NOTES
- REMOVE ALL WIRE, SCORE ROOT BALL AND PULL BACK TOP 1/3 OF BURLAP AND TWINE

POLYPROPYLENE STRAPS (OR EQUAL)

PLASTIC SPIRAL TREE PROTECTION (OR EQUAL) EXTENDED TO LOWEST BRANCH SURROUNDED BY RODENT PROTECTION FROM SOIL LEVEL TO A MIN. HT. OF 2'-0" (SECTION 02940)

BARREL CHIP MULCH RING TO A 4" MIN. DEPTH (SECTION 02940)

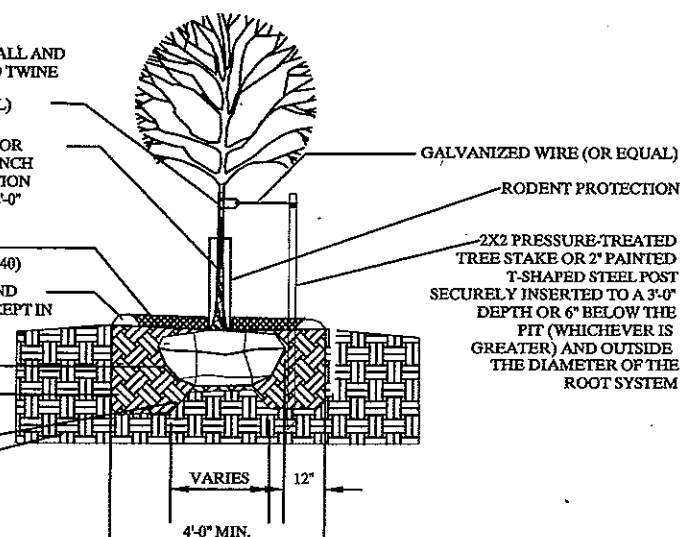
MIDDLE RING WITH A 4" MIN. DIA. AND 3-4" IN HT. TO RETAIN MOISTURE EXCEPT IN AREAS OF LESS THAN 1% SLOPE

ROOT BALL (SECTION 02940)

PREPARED TOPSOIL MIX AS SPECIFIED (SECTION 02920)

6" COMPACTED SETTING BED SLOPED TO SIDES OF PIT

EXISTING SOIL (SECTION 02920)



**G-3**  
**1**  
**BALLED & BUR LAPPED DECIDUOUS TREE DETAIL**

**NOTES:**

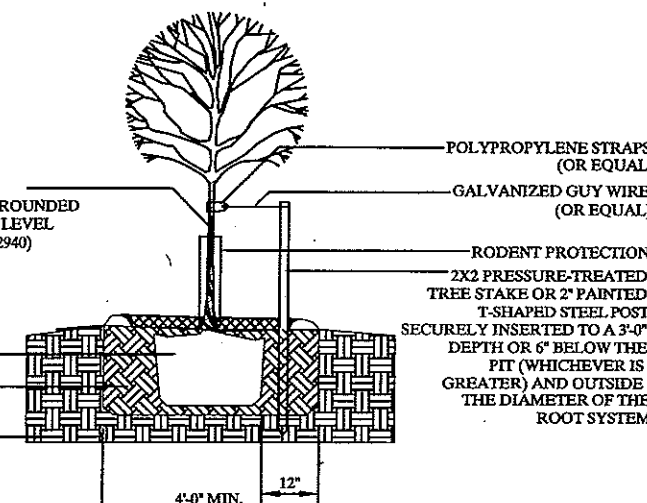
- SEE ALL GENERAL NOTES
- SCORE SOIL BALL.

PLASTIC SPIRAL TREE PROTECTION EXTENDED TO LOWEST BRANCH SURROUNDED BY RODENT PROTECTION FROM SOIL LEVEL TO A MIN. HT. OF 2'-0" (SECTION 02940)

ROOT BALL SHALL FILL CONTAINER BUT NOT BE ROOT-BOUND

PREPARED TOPSOIL MIX AS SPECIFIED (SECTION 02920)

EXISTING SOIL



**G-3**  
**2**  
**CONTAINER/DECIDUOUS TREE DETAIL**

**NOTES:**

- SEE GENERAL NOTES
- SCARIFY SIDES OF HOLE IF SMOOTH

-ALL CONTAINERS ARE TO BE REMOVED UNLESS WRITTEN NOTIFICATION FROM SUPPLIER DESIGNATES OTHERWISE AND LANDSCAPE ARCHITECT IS ALSO NOTIFIED IN WRITING AND AGREES WITH SUPPLIER. ANY CONTAINER LEFT ON THE SHRUB MUST NOT BE EXPOSED ABOVE THE SOIL LEVEL.

-SCORE ROOT BALL (SECTION 02940)

-SET ROOT FLARE AT SAME ELEV. AS WAS GROWN IN THE NURSERY (SECTION 02940)

BARREL CHIP MULCH (SECTION 02940)

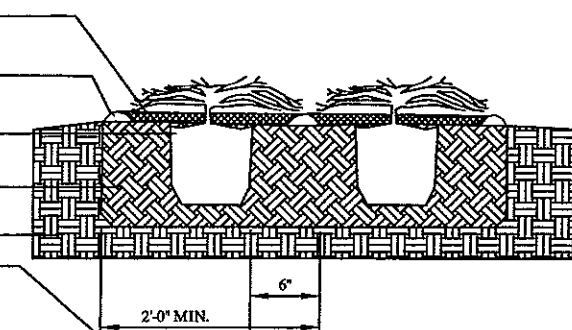
MIDDLE RING WITH A 2" MIN. DIA. AND MIN. HEIGHT OF 3-4" EXCEPT IN AREAS OF LESS THAN 1% SLOPE

ROOT BALL SHALL FILL CONTAINER BUT NOT BE ROOT-BOUND (SECTION 02920)

PREPARE TOPSOIL MIX AS SPECIFIED (SECTION 02920)

EXISTING SOIL

THE DIAMETER OF THE PIT SHALL BE NO LESS THAN 1.5 MULTIPLIED BY THE DIAMETER OF THE CONTAINER SIZE



**G-3**  
**4**  
**CONTAINER CONIFEROUS SHRUB DETAIL**

**NOTES:**

- SEE ALL GENERAL NOTES
- SCORE ROOT BALL

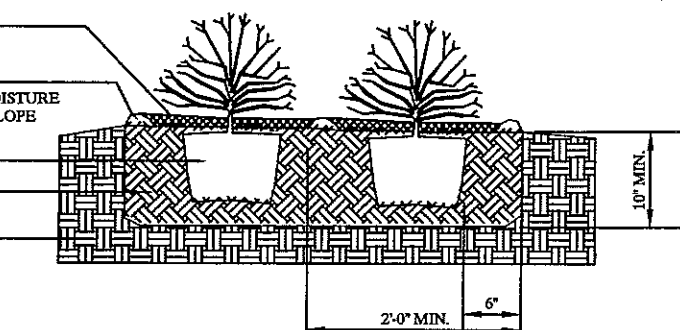
BARREL CHIP MULCH RING TO A 4" MIN. DEPTH (SECTION 02940)

MIDDLE RING WITH A MIN. 2" DIA. AND 3-4" MIN. HEIGHT TO RETAIN MOISTURE EXCEPT IN AREA OF LESS THAN 1% SLOPE

ROOT BALL

PREPARED TOPSOIL MIX AS SPECIFIED (SECTION 02920)

EXISTING SOIL (SECTION 02920)



**G-3**  
**3**  
**CONTAINER SHRUB PLANTING DETAIL**

**GENERAL NOTES:**

-TREES OVER 1-1/2' ARE TO RECEIVE TWO TREE STAKES PER TREE. SMALLER TREES RECEIVE ONE STAKE PER TREE. TREES OVER 3" CALIPER RECEIVE 3 STAKES PER TREE. (SEE STAKING DETAIL).

-PLASTIC SPIRAL TREE PROTECTION (OR EQUAL) IS TO BE APPLIED UP TO LOWEST BRANCH AND SURROUNDED BY RODENT PROTECTION AS SPECIFIED.

-WHEN NECESSARY, STAKING AND GUYING MUST BE ADJUSTED AT THE PROPER TENSION AND HEIGHT TO RESIST LOCAL WIND CONDITIONS FOR NO MORE THAN THE FIRST TWO MONTHS IN ACCORDANCE WITH THE PLAN DETAILS. GUY WIRES SHOULD BE SNUG, BUT NOT TIGHT. (SEE STAKING DETAIL).

-ONLY PRUNE ALL TREES & SHRUBS IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES. (PRUNING SHALL COMPLY SECTION 02940 - REMOVE ONLY DEAD OR BROKEN BRANCHES)

-ALL TREES SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK INCLUDING TREE PIT DEPTH AND WIDTH (SECTION 02940).

-IN SOME CASES, THE MULCH IS ONLY LISTED AS A SPECIFIED DIAMETER. SEE PLANS AND SPECIFICATIONS FOR FURTHER COORDINATION OF MULCHING (SECTION 02940).

-TREE HEIGHT AND CALIPERS VARY ACCORDING TO TREE SPECIFIED. SEE ASSOCIATED PLANS, PLANT LISTS, AND SPECIFICATIONS (SECTION 02940).

-USE MIDDLE RINGS TO RETAIN MOISTURE EXCEPT IN POORLY DRAINED AREAS OF LESS THAN 1% SLOPE. TYPICAL DIAMETERS ARE 4'-0" FOR TREES AND 2'-0" FOR SHRUBS AND VINES. DO NOT PLACE MIDDLE RING ON UPSLOPE SIDE OF SLOPE HAVING A GRADIENT OF 10% OR MORE. TYPICAL HEIGHTS ARE 3-4" MIN. FOR TREES, VINES, AND SHRUBS.

-NOTIFY PROJECT ENGINEER OF ANY DRAINAGE PROBLEMS.

-THE CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING ADEQUATE, BUT NOT EXCESSIVE, SOIL MOISTURE FOR NEWLY PLANTED TREES, SHRUBS, VINES, PERENNIALS, AND NATIVE GRASSES UNDER THE CONTRACT UNTIL NDDOT ACCEPTS FULL RESPONSIBILITY FOR ENSURING PROPER GROWTH AND DEVELOPMENT OF PLANTS (AFTER 2-YEAR PERIOD THAT BEGINS WHEN THE PROJECT GAINS INITIAL ACCEPTANCE). ADEQUATE, BUT NOT EXCESSIVE SOIL MOISTURE IS ACCOMPLISHED BY ADDITIONAL WATERING AS NEEDED TO BRING THE AMOUNT OF WATER UP TO THE EQUAL OF 1" OF RAINFALL PER WEEK IN ALL INSTALLED PLANTINGS.

-THE CONTRACTOR SHALL MAINTAIN ALL PLANTING AREAS IN A WEED FREE CONDITION TO REDUCE COMPETITION FOR NEWLY INSTALLED AND REJUVENATED PLANTS DURING THE FIRST 2-YEARS AFTER INITIAL ACCEPTANCE.

-SIDES AND BOTTOM OF PITS SHOULD BE SCARIFIED (IF SMOOTH) WITH A RAKE, SHOVEL OR OTHER APPROPRIATE TOOL.

-PLANTS MUST BE IN A PLUMB CONDITION WITHIN 7 DAYS AFTER INSTALLATION AND THROUGHOUT THE MAINTENANCE PERIOD

-ADJUST PLANTING HOLE DIMENSIONS AND SHAPE TO PROPERLY CONTAIN PLANT. PLUMB AND BACK FILL SECURELY. NO AIR POCKETS SHALL REMAIN.

-STAKING NEEDS TO BE APPROVED BY PROJECT ENGINEER PRIOR TO DIGGING THE PITS.

North Dakota  
Department of Transportation

**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program

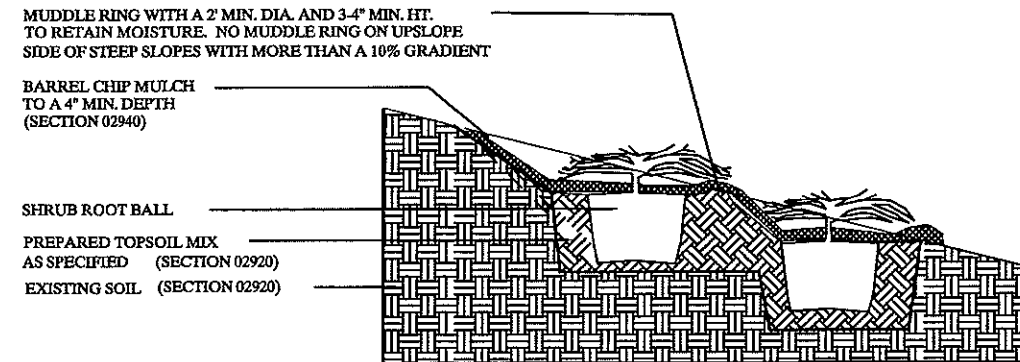
In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/27/07
MM	7/28/07
HLL	8/12/08
HLL	12/23/08
CHC	12/20/09
DCC	2/16/10

Sheet No.  
**G-3**

FED. PROJ. NO.	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)867 062

NOTES:  
 -SEE ALL GENERAL NOTES  
 -ALL CONTAINERS ARE TO BE REMOVED UNLESS WRITTEN NOTIFICATION FROM SUPPLIER DESIGNATES OTHERWISE AND LANDSCAPE ARCHITECT IS ALSO NOTIFIED IN WRITING AND AGREES WITH SUPPLIER. NO PART OF ANY CONTAINER MAY BE EXPOSED ABOVE THE SOIL LEVEL.  
 -SCORE ROOT BALL (SECTION 02940)

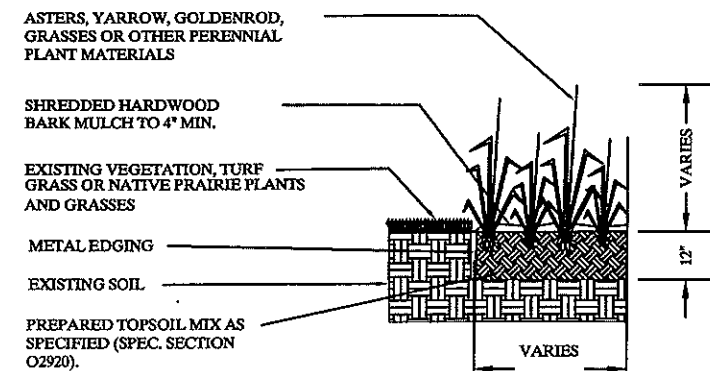


G-4  
1  
SLOPED CONIFER SHRUB PLANTING DETAIL

NOTES:  
 -SEE ALL GENERAL NOTES FOR ADDITIONAL PLANTING INFORMATION.

-PERENNIAL SPACING WILL BE BASED ON A TOTAL NUMBER PER AREA AND APPROVED BY LANDSCAPE ARCHITECT.

-ALL CONTAINERS MUST BE REMOVED AND PLANTING BED MUST BE MULCHED AND WATERED WITHIN 2 HOURS. NO AIR POCKETS.



G-4  
3  
PERENNIAL BED AND GROUND COVER DETAIL

NOTES:  
 -SEE ALL GENERAL NOTES

-MUDDLE RING SHOULD NOT BE PLACED ON UPSLOPE SIDE OF STEEP SLOPES WITH MORE THAN A 10% GRADIENT

-IF TREE IS OVER 1-1/4" CALIPER, SUPPORT WITH 2 TREE STAKES. IF TREE CALIPER IS UNDER 1-1/4", SUPPORT WITH 1 TREE STAKE, IF CALIPER IS 3" OR MORE SUPPORT WITH 3 TREE STAKES. CONIFER TREES 10' OR MORE SUPPORT WITH 3 STAKES. (SECTION 02940)

BARREL CHIP MULCH APPLIED UNIFORMLY AT A 4" MIN. DEPTH EXCEPT WHERE DRAINAGE IS POOR (SECTION 02940)

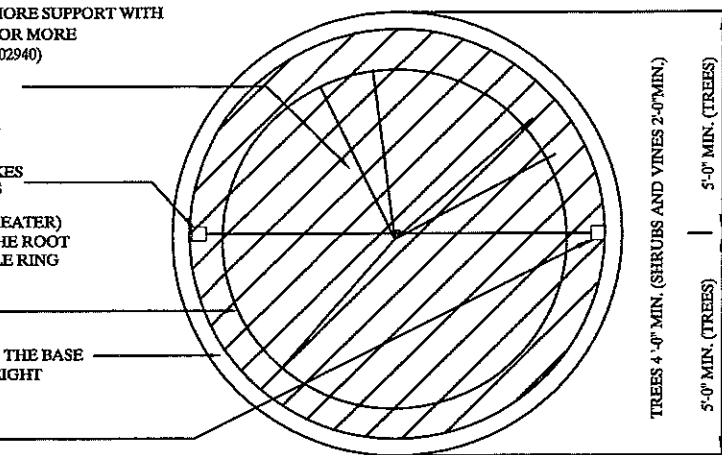
2X2 PRESSURE-TREATED TREE STAKES OR PAINTED T-SHAPED STEEL POSTS INSERTED TO A 3' MIN. DEPTH OR 6" BELOW THE PIT (WHICH EVER IS GREATER) AND OUTSIDE THE DIAMETER OF THE ROOT SYSTEM BUT INSIDE OF THE MUDDLE RING (SECTION 02940)

TYPICAL TREE

MUDDLE RING CENTERED AROUND THE BASE OF PLANT. MIN. DIA. IS 4'-0" WITH HEIGHT MIN. OF 3'-4"

TREE STAKES SHALL NOT BE BEYOND THE MULCHED AREA OF THE TREE

G-4  
2  
MUDDLE RING AND STAKE DETAIL (PLAN)



North Dakota  
 Department of Transportation

**Fort Abraham Lincoln State Park**  
 Bikeway Landscape Enhancement Project  
 TES-1-806(026)067

---

Provided by North Dakota State University  
 Landscape Architecture Program

In Cooperation  
 with NDDOT

---

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	6/08/98
HLL	8/17/98
HLL	12/23/98
CHC	12/20/99
DCC	2/16/00

---

Sheet No.  
**G-4**

FOUN. REGION	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)067

North Dakota  
 Department of Transportation  
**Fort Abraham Lincoln State Park**  
 Bikeway Landscape Enhancement Project  
 TES-1-806(026)067

Provided by North Dakota State University  
 Landscape Architecture Program  
 In Cooperation  
 with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	6/08/98
HLL	8/12/98
HLL	12/23/98
DCC	12/20/99
DCC	2/16/01

Sheet No.  
**G-5**

- NOTES:
- SEE GENERAL NOTES
  - KEEP ROOTS MOIST AT ALL TIMES
  - SET ROOT FLARE AT THE SAME ELEVATION AS WAS GROWN IN THE NURSERY (SECTION 02940)
  - PLUMB AND BACK FILL SECURELY. NO AIR POCKETS
  - WATER PLANT WITHIN 2 HOURS OF INSTALLATION. WATERING MUST THOROUGHLY SATURATE ROOT BALL AND PLANTING HOLE

PLASTIC SPIRAL TREE PROTECTION (OR EQUAL) EXTENDED TO LOWEST BRANCH SURROUNDED BY RODENT PROTECTION FROM SOIL LEVEL TO A MIN. HT. OF 2'-0" (SECTION 02940)

BARREL CHIP MULCH BED TO A 4" MIN. DEPTH. (SECTION 02940)

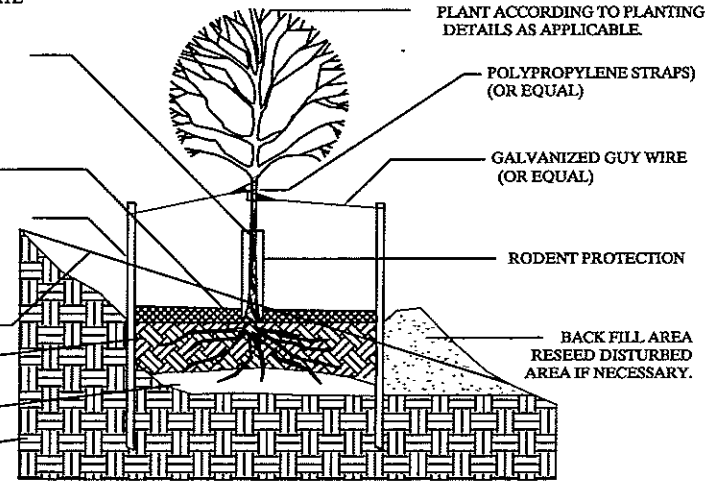
2"x2" PRESSURE-TREATED TREE STAKES SECURELY INSERTED TO A 3'-0" MIN. DEPTH OR 6" (WHICH EVER IS GREATER) AND OUTSIDE THE DIAMETER OF THE ROOT SYSTEM. (SECTION 02940)

EXISTING GRADE

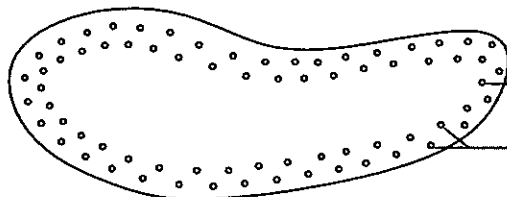
PREPARED TOPSOIL MIX AS SPECIFIED (SECTION 02920)

6" COMPACTED SETTING BED SLOPED TO SIDES OF THE PIT

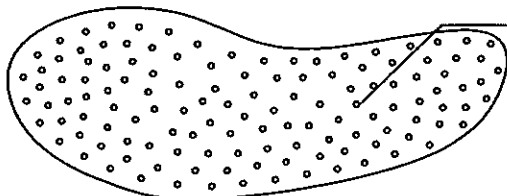
EXISTING SOIL



**G-5**  
1  
**PLANTING DETAIL FOR SLOPES GREATER THAN 30%**



NOTE: ALL TREES PLANTED IN MULCHED BED WILL HAVE A 5' X 5' CLEAR AREA AROUND THE TREE TRUNK.



PLANTING BED SOIL SHALL BE FINE-GRADED AND LEVELED WITH HAND TOOLS PRIOR TO PLACING OF ANY MULCH.

TREES SHOULD BE PLANTED IN PLANTING BEDS BEFORE SHRUBS AND GROUNDCOVERS.

NOTE: Provide at least a 1'-6" spacing between mature shrub spread and mulch edge

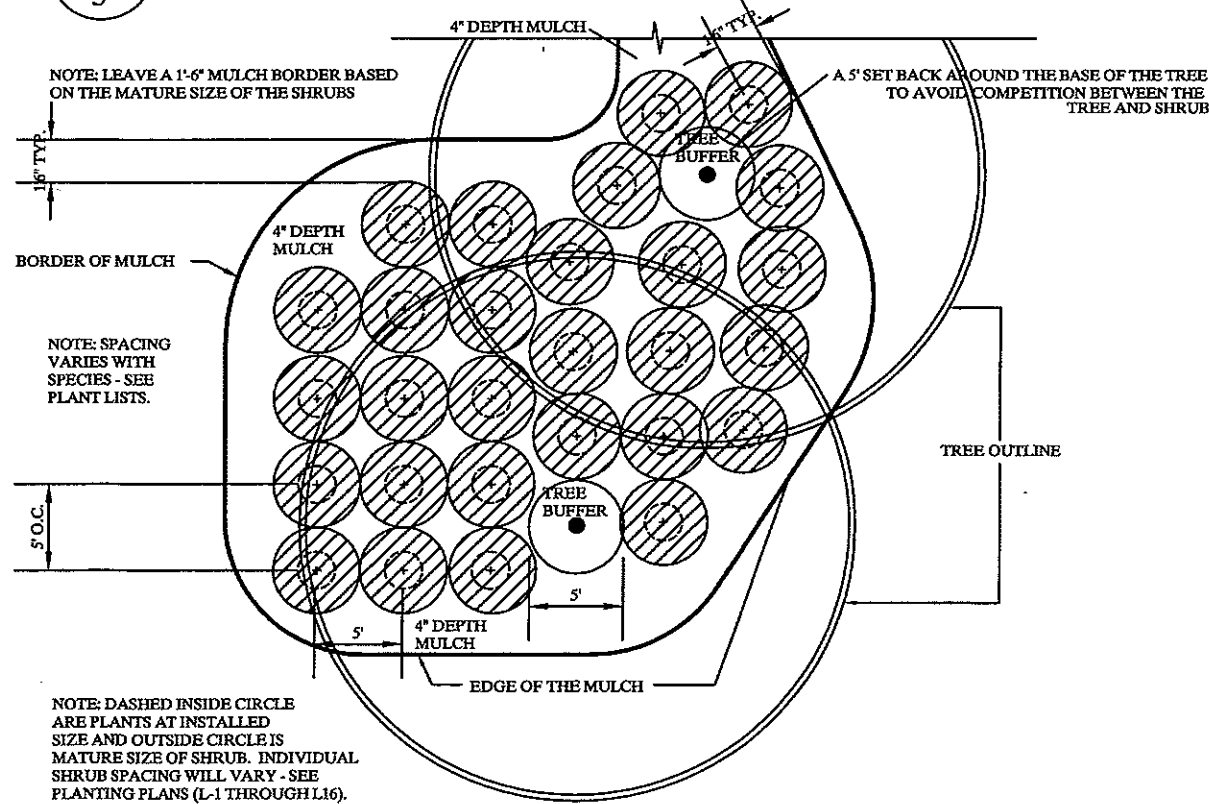
**G-5**  
2  
**MASS SHRUB PLANTING BED DETAIL**

**PLANTING SEASON**

TREES, SHRUBS, AND VINES	PERENNIALS AND GROUND COVERS
Bare Root - May 1-June 15	Container Grown - April 20-June 15
Container Grown - May 1-Oct. 1	
Balled & Bur lapped - May 1-Oct. 10	

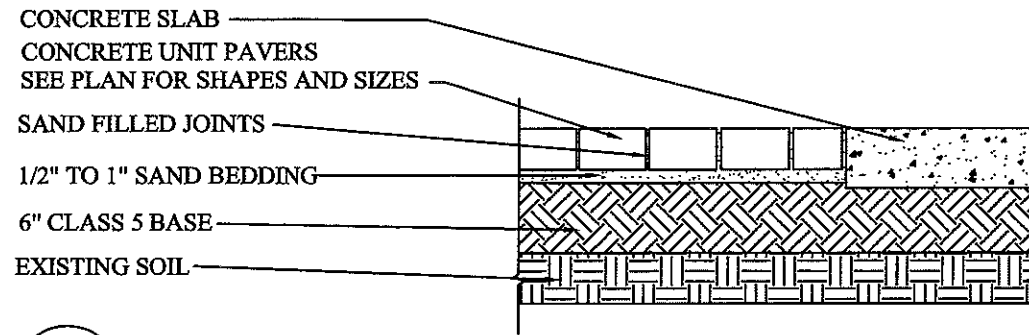
NOTE: Recommendations may vary by species.  
 NOTE: The project completion is scheduled for June 30th. If time is needed beyond June 30th for planting in the Fall. If plants are unavailable, special provisions must be made prior to June 30th.

**G-4**  
3  
**OPTIMUM PLANTING DATES - CENTRAL N.D.**



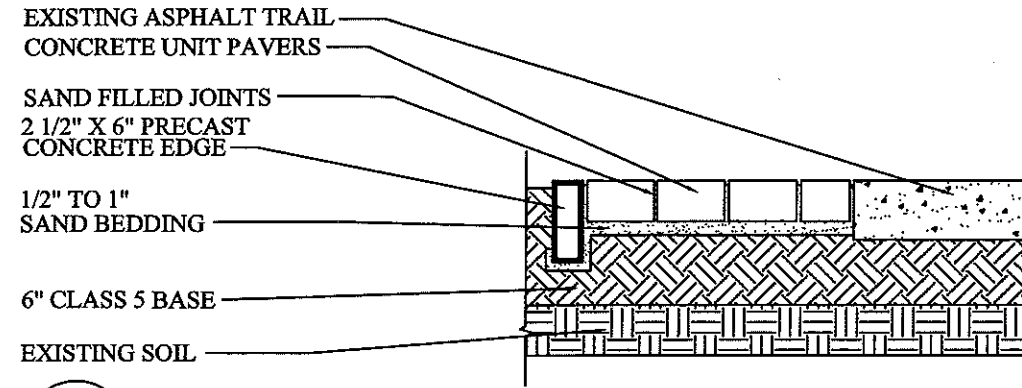
**G-5**  
4  
**TYPICAL MASS TREE PLANT SPACING**

FED. AID PROJ. NO.	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)067



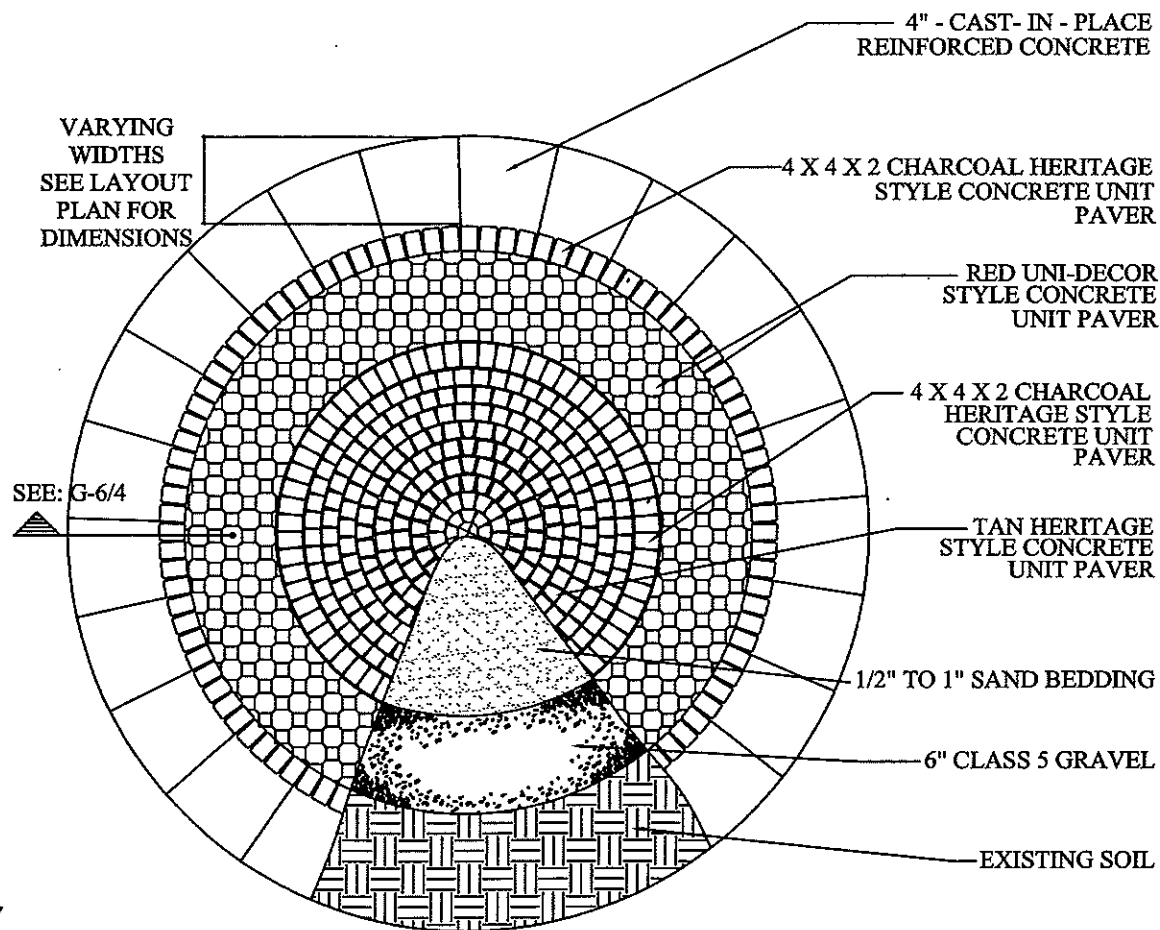
G-6  
1

CONCRETE SLAB PAVING SECTION  
SCALE 1" = 1'-0"



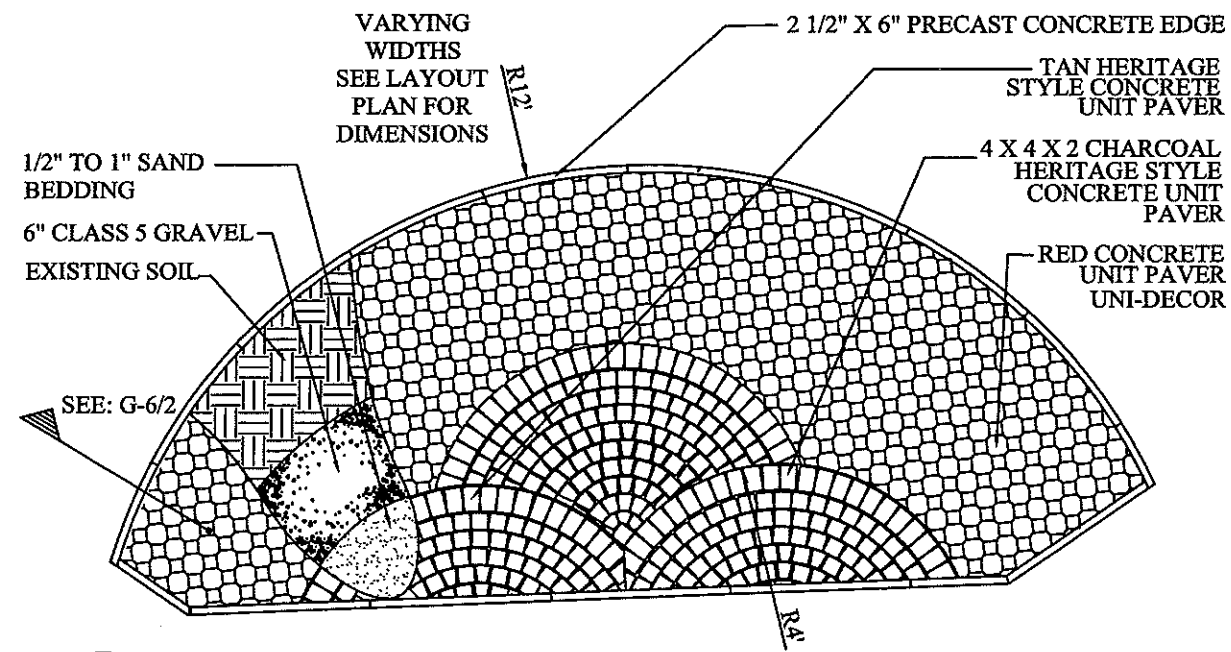
G-6  
3

PAVING BLOCK EDGE RESTRAINT DETAIL  
SCALE 1" = 1'-0"



G-6  
2

PAVING LAYOUT PLAN  
SCALE 1/2" = 1'-0"



G-6  
4

PAVING LAYOUT PLAN  
SCALE 1/4" = 1'-0"

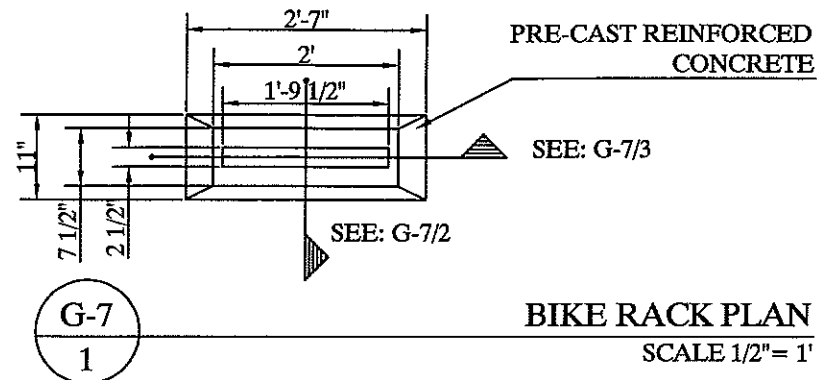
North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program  
In Cooperation  
with NDDOT

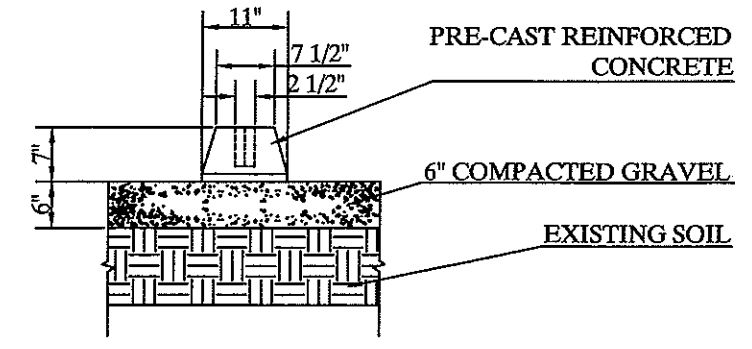
Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/07
DMM	6/08/08
HLL	8/12/08
HLL	12/23/08
DMM	02/21/09
CHC	12/21/09
DCC	2/16/10

Sheet No.  
**G-6**

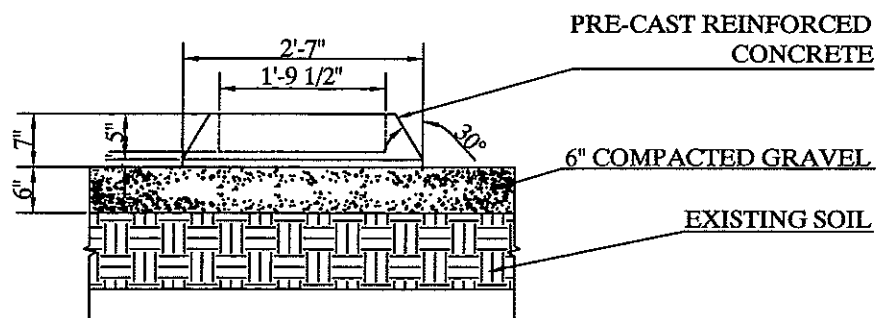
FYVA AGENCY	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)007



**G-7**  
1  
**BIKE RACK PLAN**  
SCALE 1/2" = 1'

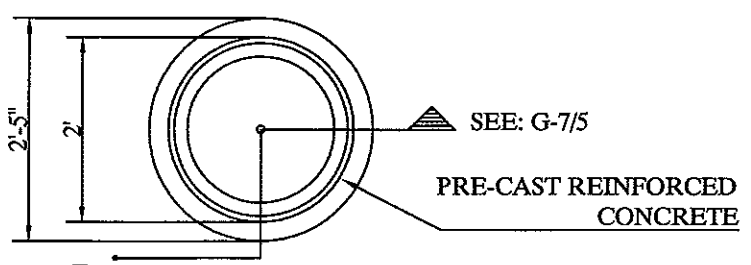


**G-7**  
4  
**BIKE RACK SECTION ON GRAVEL OR CONCRETE**  
SCALE 1/2" = 1'

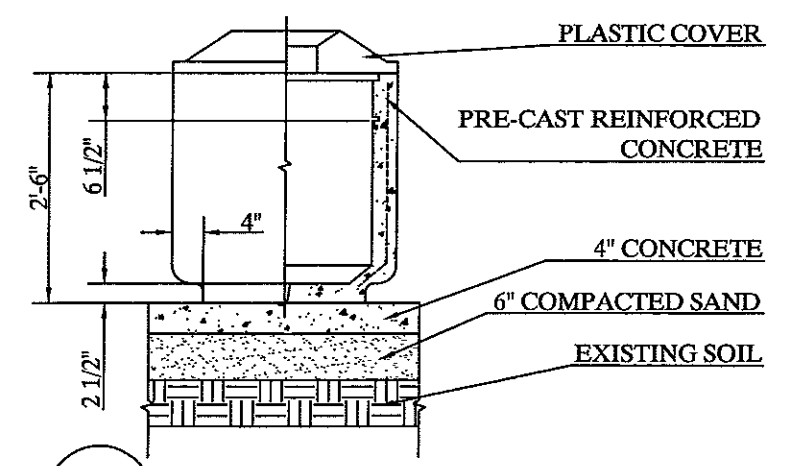


**G-7**  
2  
**BIKE RACK SECTION ON GRAVEL OR CONCRETE**  
SCALE 1/2" = 1'

NOTE: BIKE RACK AND TRASH CAN ARE AVAILABLE FROM PETERSEN MANUFACTURING COMPANY



**G-7**  
3  
**TRASH CAN PLAN**  
SCALE 1/2" = 1'



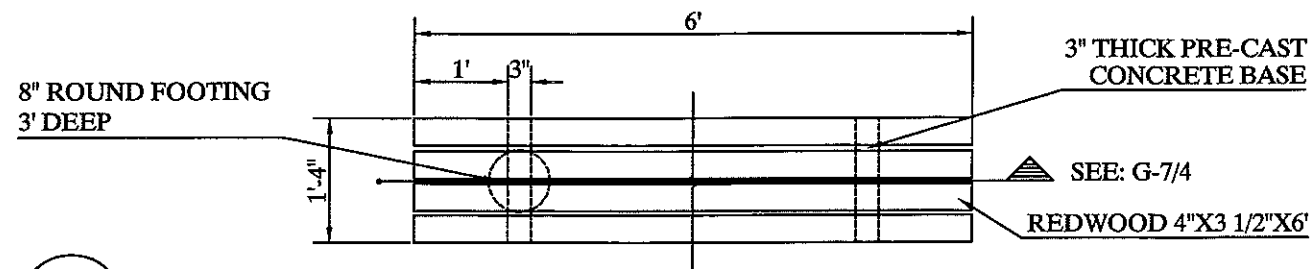
**G-7**  
5  
**TRASH CAN SECTION**  
SCALE 1/2" = 1'

North Dakota  
 Department of Transportation  
**Fort Abraham Lincoln State Park**  
 Bikeway Landscape Enhancement Project  
 TES-1-806(026)007

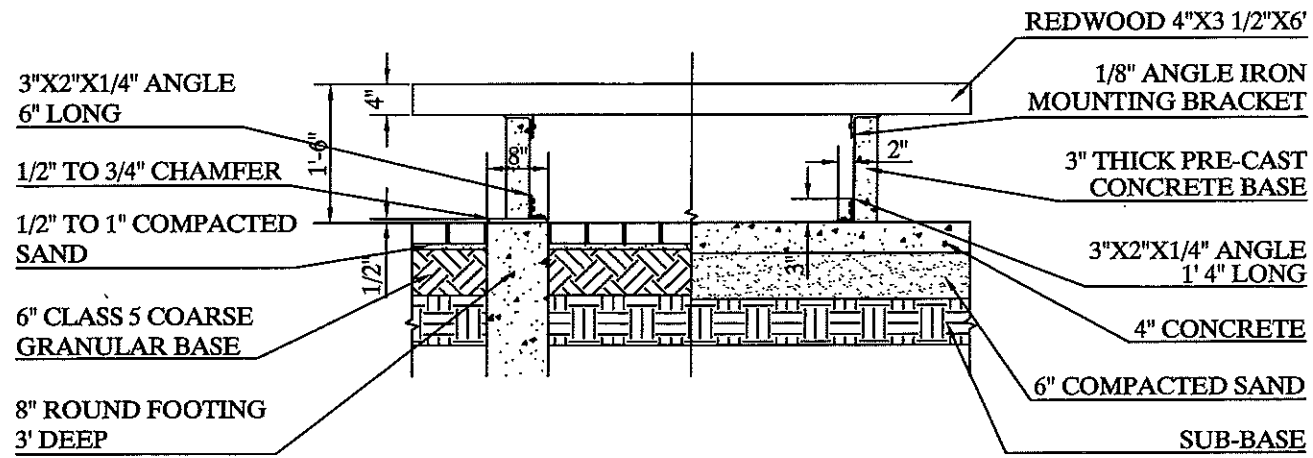
Provided by North Dakota State University  
 Landscape Architecture Program  
 In Cooperation with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	6/08/98
HLL	8/12/98
HLL	12/23/98
CHC	12/20/99
DCC	2/16/00

Sheet No.  
**G-7**

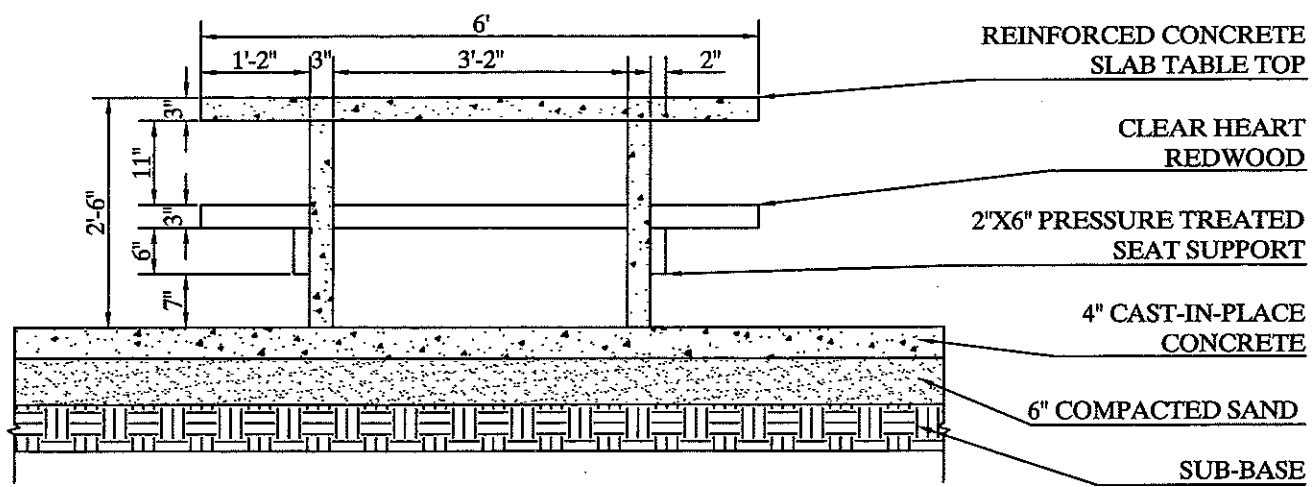


**G-8**  
1  
**WOODEN BENCH PLAN**  
SCALE 1/2" = 1'

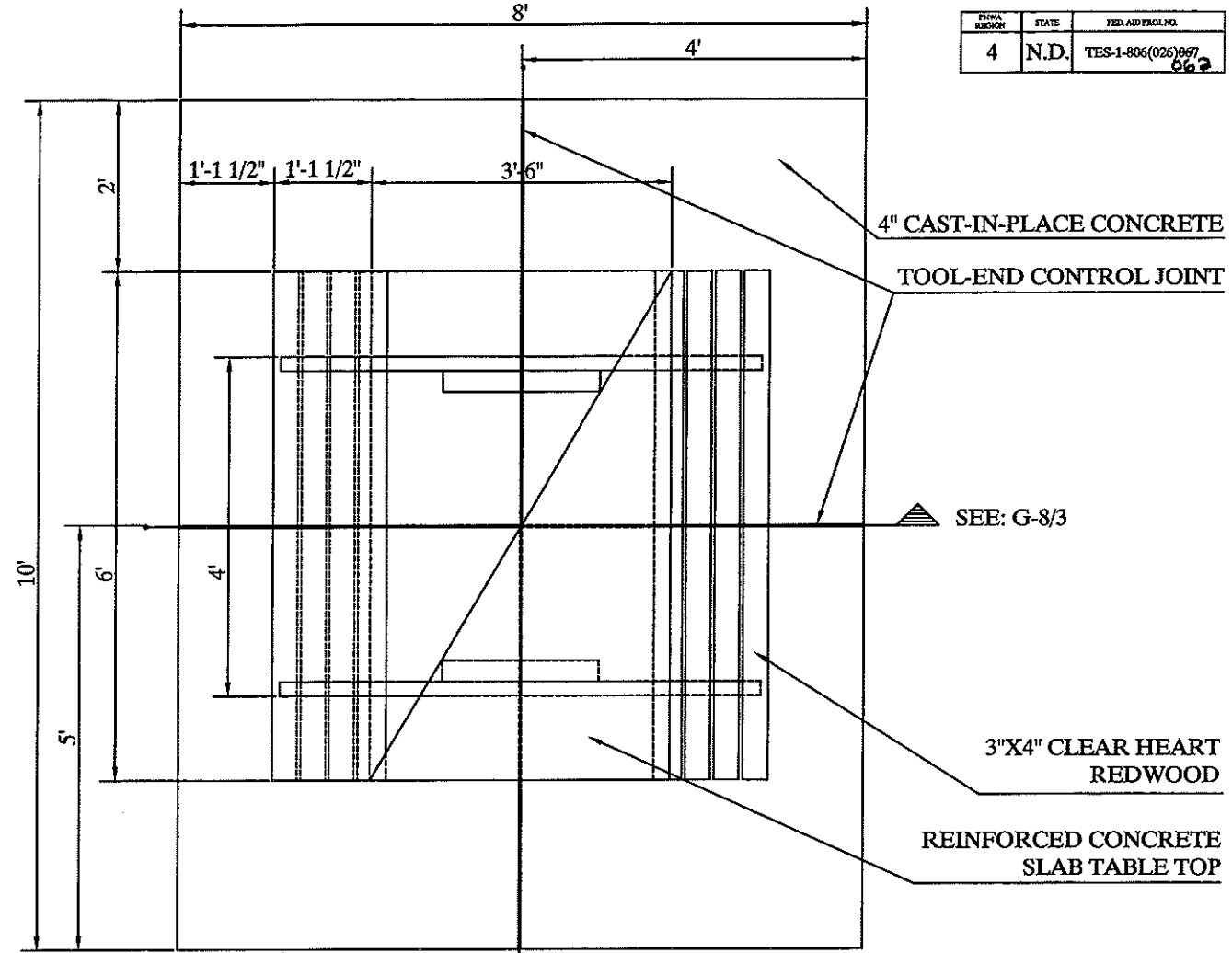


**G-8**  
2  
**WOODEN BENCH SECTION ON PAVERS OR CONCRETE**  
SCALE 1/2" = 1'

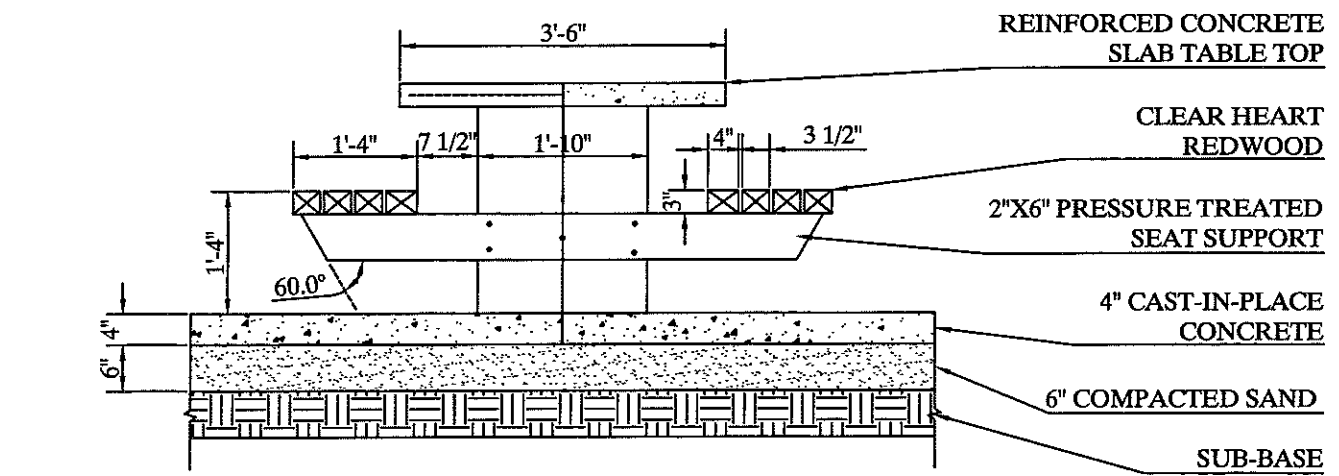
NOTE: WOODEN BENCH AND PICNIC TABLE ARE AVAILABLE FROM PETERSEN MANUFACTURING COMPANY AND OTHER MANUFACTURERS



**G-8**  
4  
**PICNIC TABLE SECTION**  
SCALE 1/2" = 1'



**G-8**  
3  
**PICNIC TABLE PLAN**  
SCALE 1/2" = 1'



**G-8**  
5  
**PICNIC TABLE SECTION**  
SCALE 1/2" = 1'

FED. AID PROJ. NO.	STATE	PROJ. NO.
TES-1-806(026)897	N.D.	662

North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(026)067

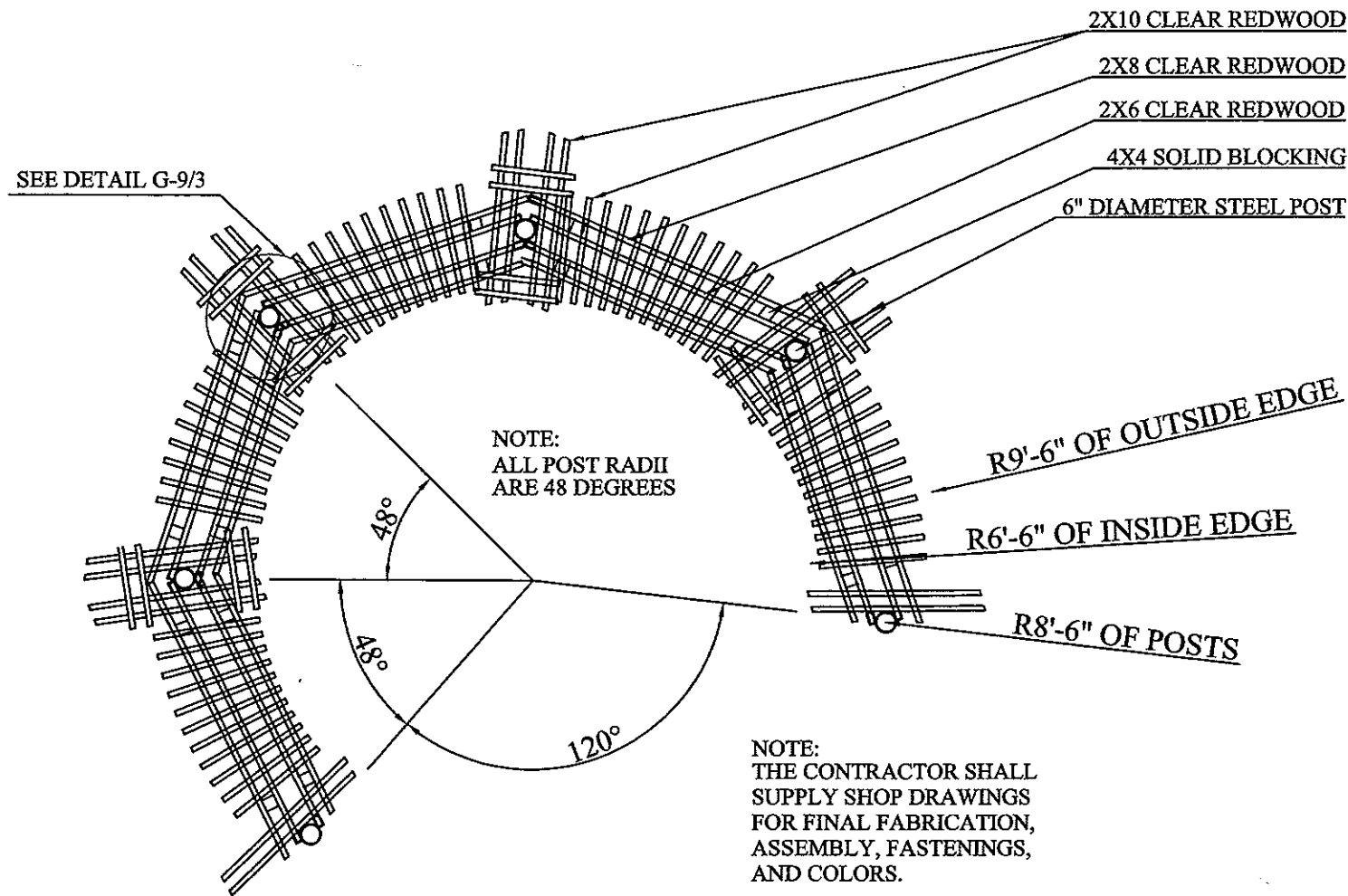
Provided by North Dakota State University  
Landscape Architecture Program  
In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HJL	7/23/97
DMM	6/18/98
HJL	8/17/98
FJL	12/23/98
CHC	12/20/99
DCC	2/16/00

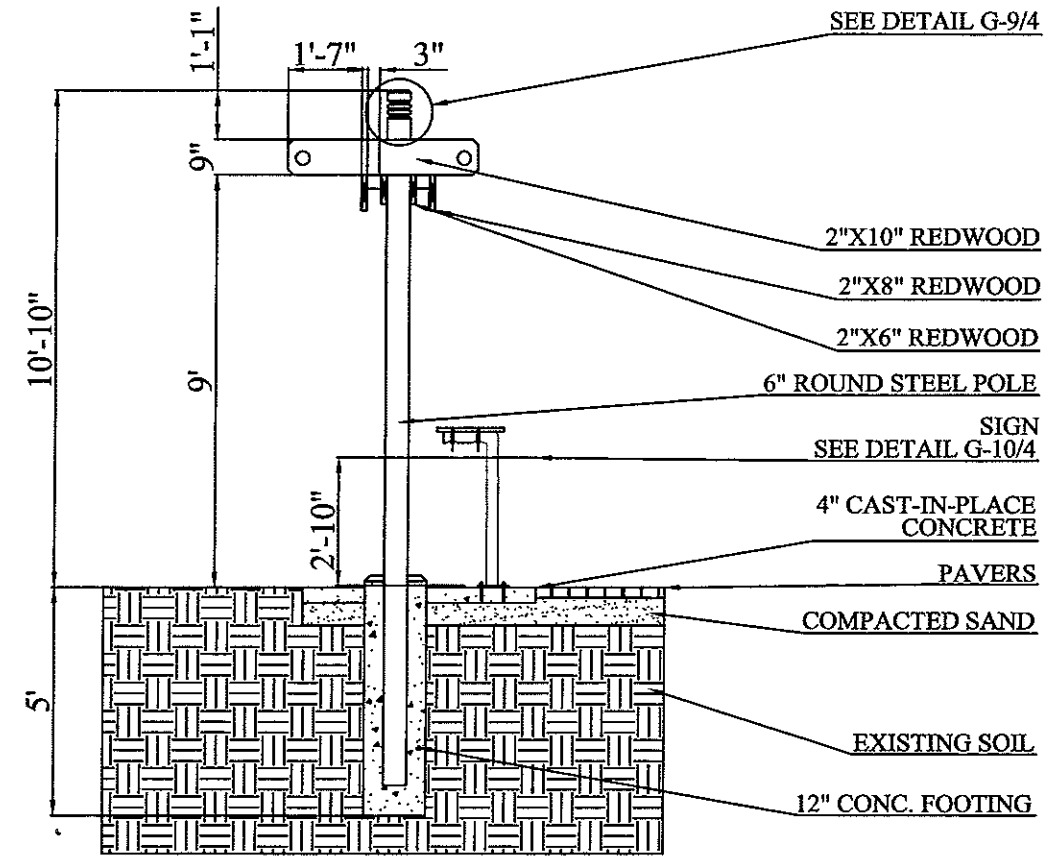
Sheet No.  
**G-8**



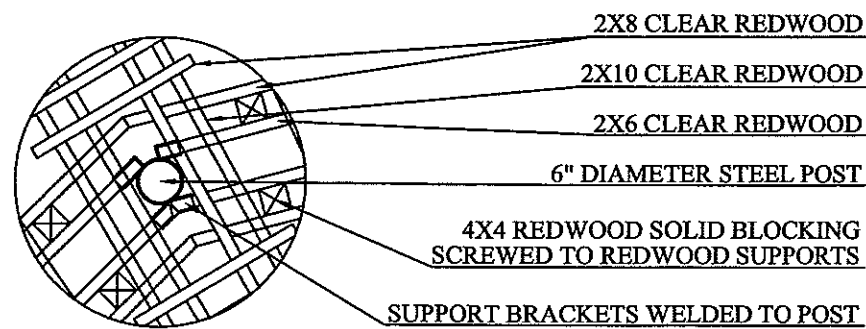
FED. AID PROJ. NO.	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)067



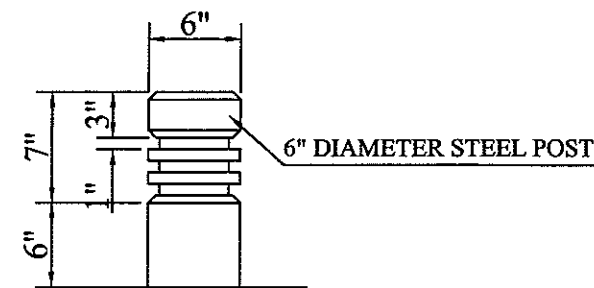
G-9  
1  
PERGOLA PLAN  
SCALE 1/4" = 1'



G-9  
2  
PERGOLA SECTION  
SCALE 1/4" = 1'



G-9  
3  
ENLARGE POST/ TRELLIS DETAIL  
SCALE 1/2" = 1'



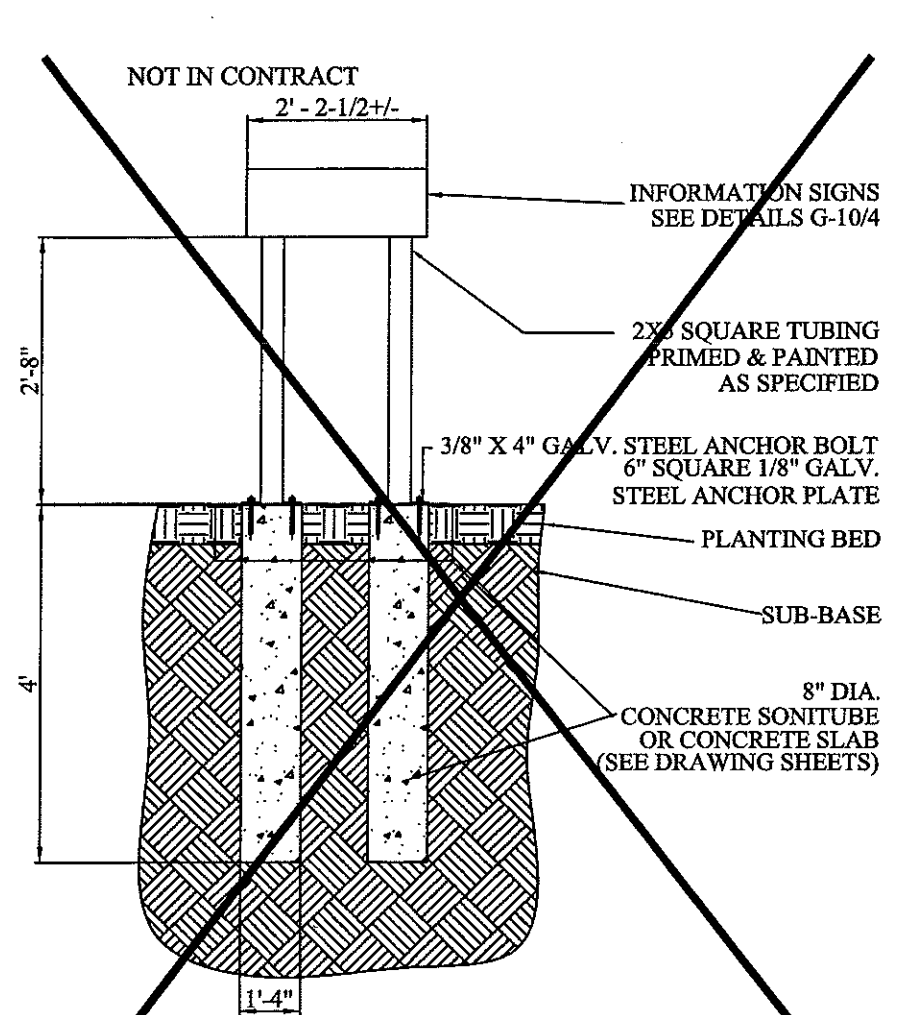
G-9  
4  
PERGOLA CMP DETAIL  
SCALE 1" = 1'

North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(026)067

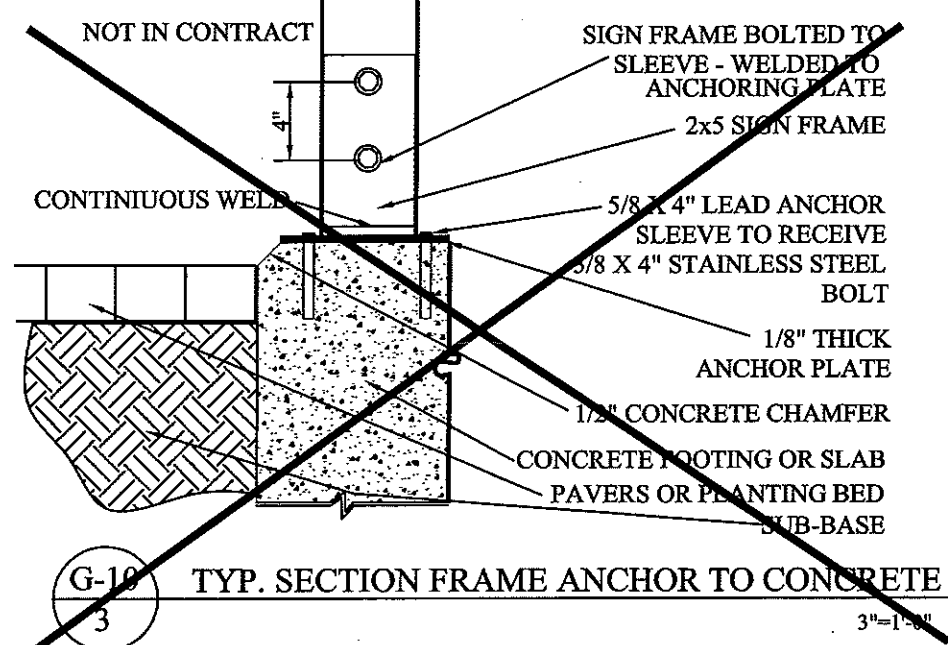
Provided by North Dakota State University  
Landscape Architecture Program  
In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	5/08/98
HLL	8/12/98
HLL	12/23/98
DMM	02/21/00
HRW	02/22/99
CHC	12/20/99
DCC	2/16/00

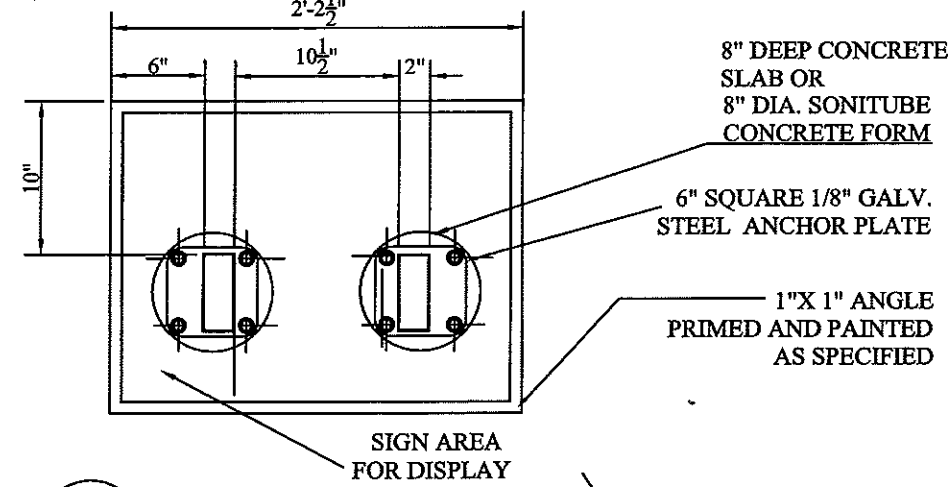
Sheet No.  
**G-9**



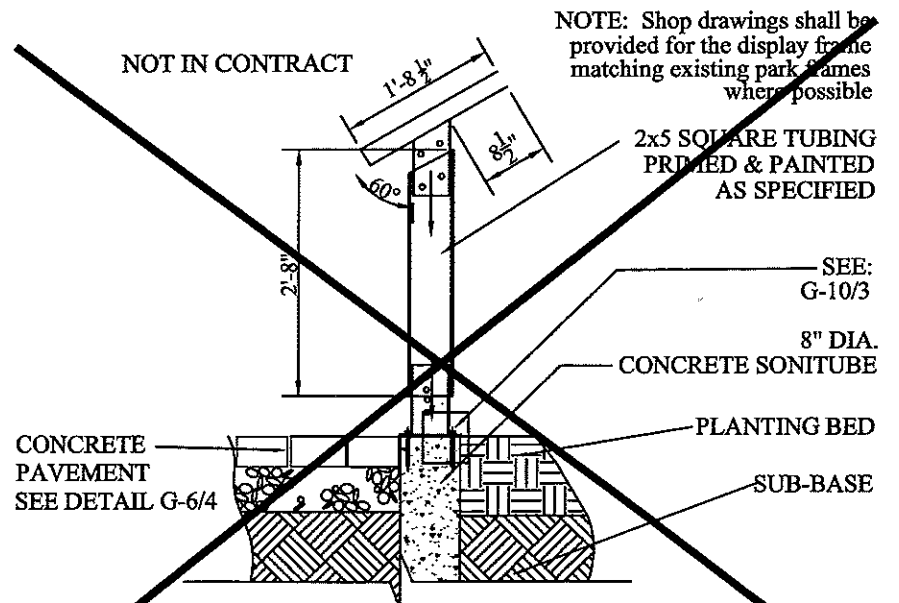
**G-10**  
1  
INFORMATION SIGN FOOTINGS SECTION  
1/2"=1'-0"



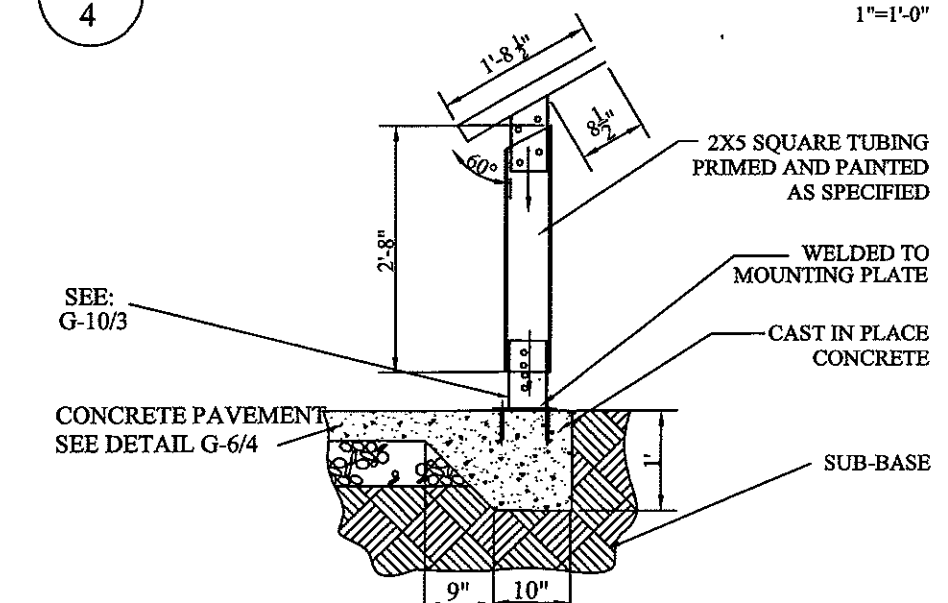
**G-10**  
3  
TYP. SECTION FRAME ANCHOR TO CONCRETE  
3"=1'-0"



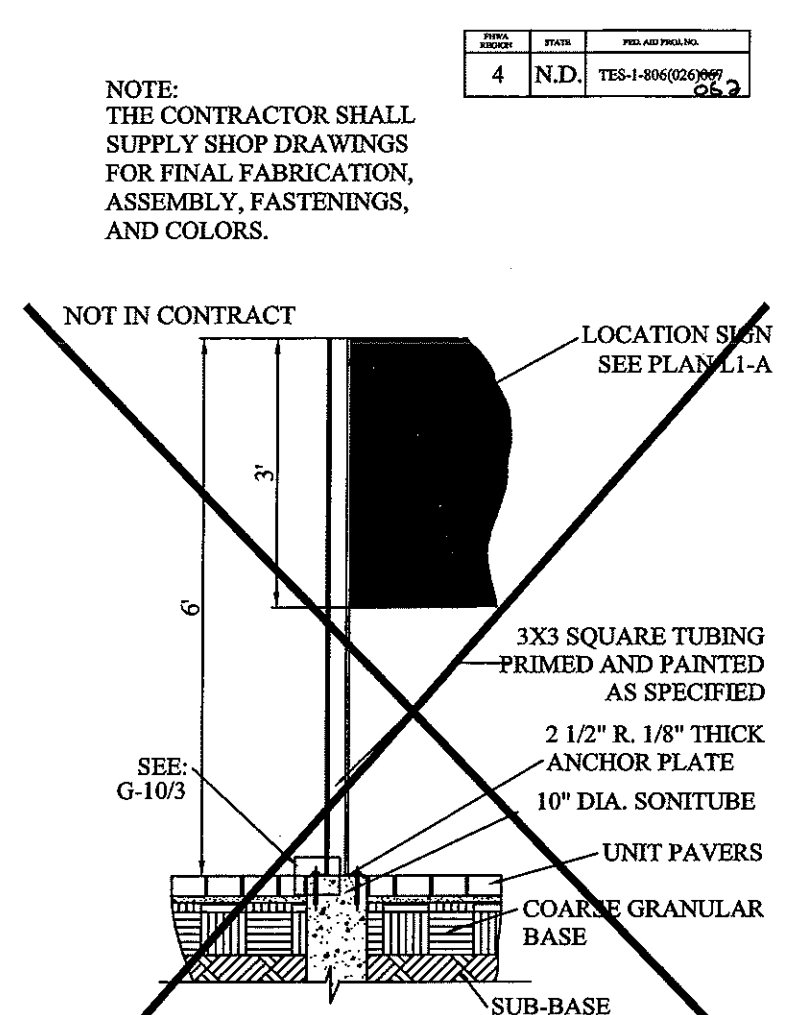
**G-10**  
4  
INFORMATION SIGN PLAN  
1"=1'-0"



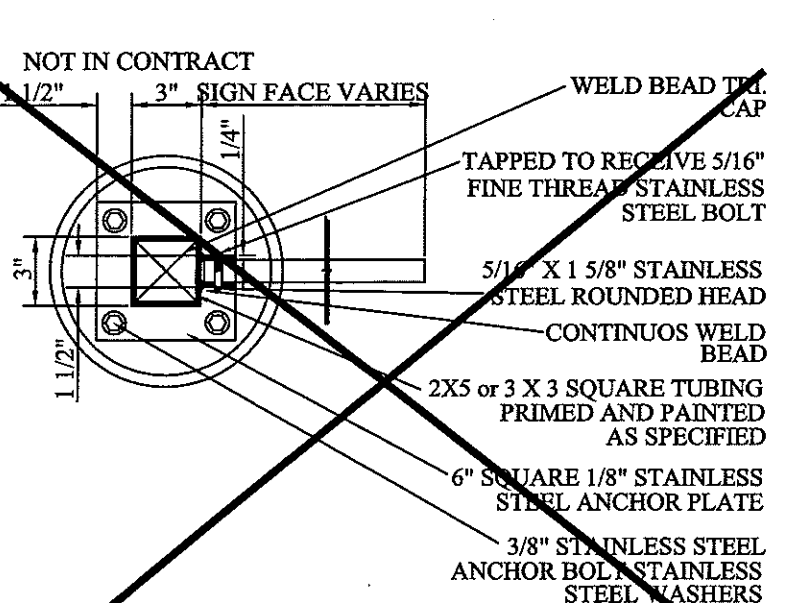
**G-10**  
2  
INFORMATION SIGN SECTION ON PAVERS  
1/2"=1'-0"



**G-10**  
5  
INFORMATION SIGN SECTION ON CONCRETE  
1/2"=1'-0"



**G-10**  
6  
LOCATION MAP SECTION  
1/2"=1'-0"



**G-10**  
7  
LOCATION MAP PLAN  
1"=1'-0"

NOTE:  
THE CONTRACTOR SHALL  
SUPPLY SHOP DRAWINGS  
FOR FINAL FABRICATION,  
ASSEMBLY, FASTENINGS,  
AND COLORS.

FY/FA NUMBER	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)067 052

North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program  
In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	6/08/98
HLL	8/17/98
HLL	12/27/98
DMM	12/21/98
DCC & DC	12/21/98
DCC	2/16/00

Sheet No.  
**G-10**

**PROJECT NO:**

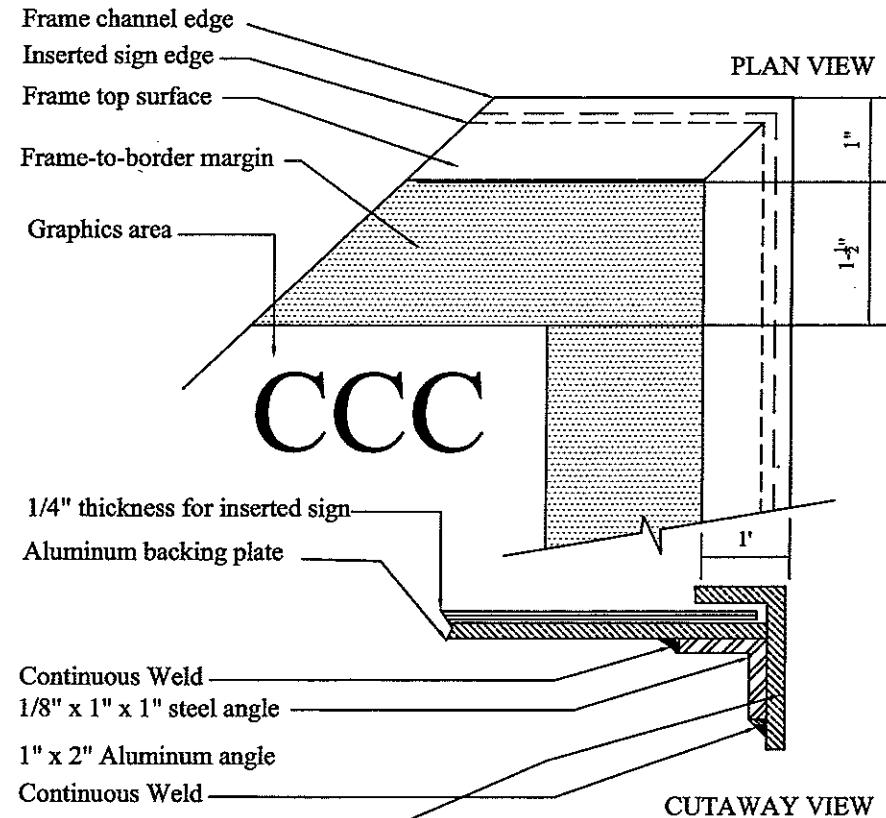
100.P07

**ARCHAEOLOGY REQUIREMENTS:** DUE TO THE LOCATION OF THE PROJECT, AN ARCHAEOLOGIST WILL BE ON SITE AT VARIOUS TIMES DURING THE CONSTRUCTION OF THE SOME SIGN SYSTEMS AND THE NEW PARK ENTRANCE SIGN TO MONITOR CONSTRUCTION AND SEARCH FOR ARTIFACTS. THE ARCHAEOLOGIST WILL BE ON SITE ON A CONTINUOUS BASIS DURING CONSTRUCTION BETWEEN STATION 16+00 AND STATION 22+50, SEGMENT 2, AND BETWEEN STATION 16+00 AND STATION 20+00, SEGMENT 1, AND ON A PART TIME BASIS DURING THE REST OF THE PROJECT CONSTRUCTION. THE COST OF THE ARCHAEOLOGIST WILL NOT BE THE RESPONSIBILITY OF THE CONTRACTOR. SHOULD ARTIFACTS BE DISCOVERED THAT REQUIRE RELOCATION OF THE BUILT ELEMENTS OR HALTING CONSTRUCTION OF THE PROJECT, COSTS ASSOCIATED WITH EITHER ITEM WILL BE ADDRESSED AS DESCRIBED IN SECTION 104.05, 104.06, AND 107.04 OF THE NDDOT STANDARD SPECIFICATIONS.

100.P08

**HANDLING OF RESOURCE DISCOVERIES:** SHOULD ANY HISTORICAL RESOURCES BE DISCOVERED DURING CONSTRUCTION, ALL WORK IN THE AREA WILL BE HALTED UNTIL AN APPROVED ARCHAEOLOGIST HAS EVALUATED THE SITE. THE TWO SITES WITH THE GREATEST POTENTIAL FOR HISTORICAL RESOURCE DISCOVERY ARE LISTED UNDER SECTION 100.P07, ARCHAEOLOGY REQUIREMENTS. THE CONTRACTOR MAY MOVE THE CONSTRUCTION OPERATION TO A DIFFERENT SECTION OF THE PROJECT AREA SHOULD ARTIFACTS BE DISCOVERED. COMPENSATION WILL ONLY BE NEGOTIATED IF THERE ARE NO OTHER SECTIONS OF THE PROJECT AREA REMAINING TO BE CONSTRUCTED AND CONSTRUCTION IS SHUT DOWN FOR MORE THAN 2 CONSECUTIVE DAYS.

NOTE: See Drawing Sheet G-10/Details 1-5 for additional sign display details. Signs are found on L-1A



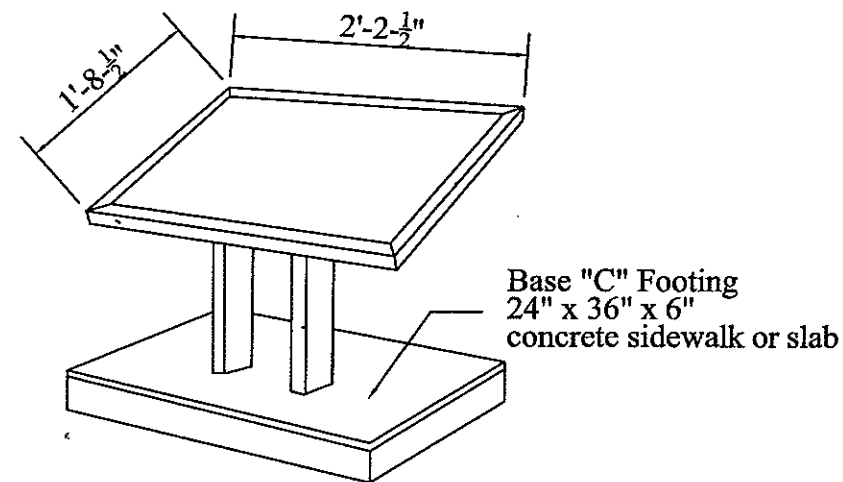
NOTE: 1) Insert channel allows for loose fit  
 2) Nominal dimensions figured by finished sign sizes (all display panel signs are a finished size of 20" x 26"); outside dimensions of the sign frame must add space plus thickness.

3 Enlarge Display System Detail  
 G-11 Not to Scale

FED. DISTRICT	STATE	FED. AID PROJ. NO.
8	N.D.	TES-1-806(026)067 067

1  
 G-11

**Important Note**



2 Sign Board Isometric  
 G-11 Not to Scale

North Dakota  
 Department of Transportation  
**Fort Abraham Lincoln State Park**  
 Bikeway Landscape Enhancement Project  
 TES-1-806(026)067

Provided by North Dakota State University  
 Landscape Architecture Program  
 In Cooperation  
 with NDDOT

Drawn by: DCC  
 Checked by: DCC  
 Revised by: DCC Date: 2/16/00

Sheet No.  
**G-11**

FYNA REGION	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)067

**SPECIFICATIONS:**

**Concrete:**

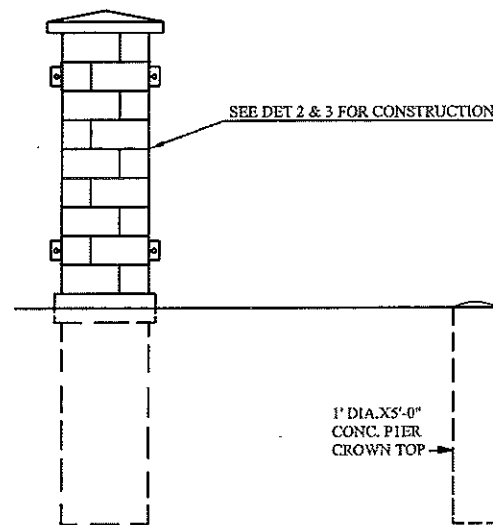
1. Cement shall be Type I. Concrete shall contain not less than 5 1/2 bags per cubic yard.
2. 28 day compressive strength shall be 3,000 PSI.
3. Slump shall be 3" +/- 1/2".
4. Air entrainment shall be 5 to 7 %.
5. All reinforcing steel shall meet ASTM A615, grade 60.
6. Splices in rebar shall lap a minimum of 30 times the diameter.
7. Provide adequate support bars and accessories to hold all rebar firmly in place.
8. Concrete covering for reinforcement shall be per ACI 318.
9. All loose material shall be removed from excavations prior to placing concrete.
10. Concrete shall be placed only when the temperature is 40 deg. F. or higher unless protection is provided.
11. All concrete shall be mechanically vibrated during placement.

**Masonry:**

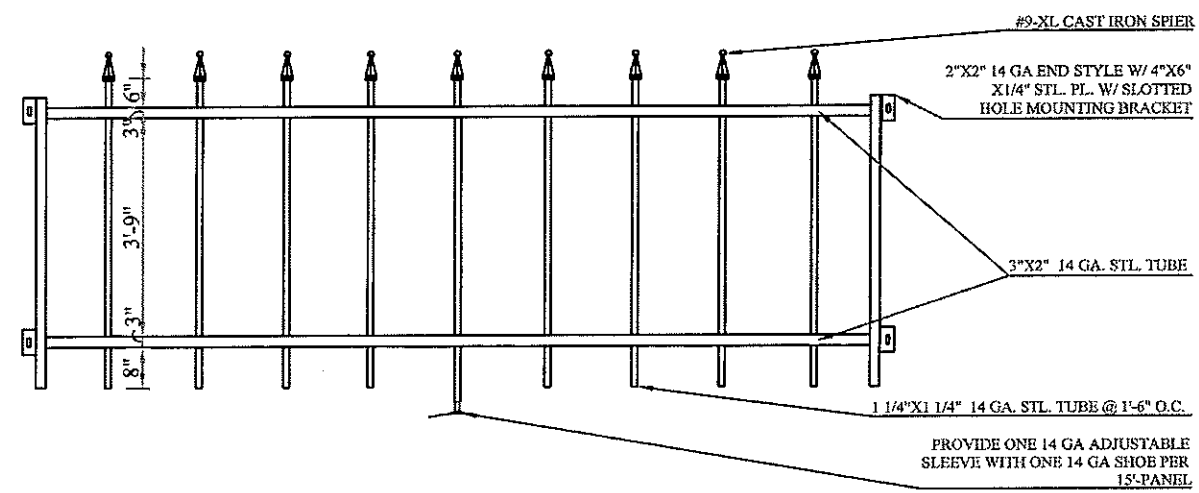
1. Mortar shall be a pre blended Portland Cement-Lime: ASTM C-150, ASTM 207, ASTM C270, Type S, as manufactured by Concrete Sectional Company or approved equal. Mortar color shall be natural cement.
2. The contractor, as an option, may mix use the following materials:
  - a. Portland cement: ASTM C-150, Type 1,
  - b. Lime: Hydrated ASTM C-207, Type S,
  - c. Sand ASTM C-144, Clean And sharp,
 mixed in the following proportions; 1 part Portland cement, 1/2 part lime, 4-1/2 parts masonry sand.
3. All mixes shall be proportioned in the field using measured volumes.
4. All mortar shall be protected from freezing temperatures or excessively drying atmosphere. All joints shall be finished with a concave tooled joint.
5. Exterior Concrete (NWC) Block shall conform to ASTM C-90 Grade N-1, as manufactured by Concrete Services, Bismarck N. D. or approved equal. Block Color shall match the existing columns, and shall be approved prior to ordering. Block shall be free of cracks and chips uniform in color and free of iron substances.
6. All split faced block shall have an integral water-repellent admix equal to Dry-Block System Block admix by Forrer Industries, Milwaukee Wisconsin or approved equal.
7. All block shall be 8"x 8"x 16" corner unit (split face and end). No mitered corners will be allowed. Provide bond beam shapes as required.
8. Masonry reinforcing shall be "Dur-O-Wall; Ladur Type" or approved equal. Reinforcing shall conform to required widths (block thickness less 2 inches) and be made of No. 9 wire.
9. All excess mortar shall be cleaned from the surface of the concrete block in an approved manner.

**Miscellaneous Metals:**

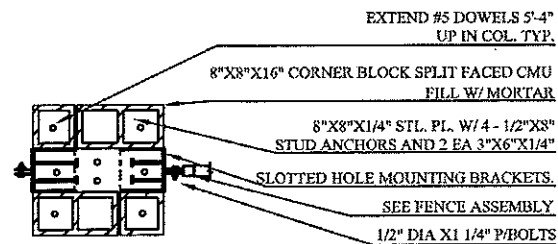
1. All tubular steel shall be ASTM A513.
2. All 1/4" flat stock shall be A36.
3. All metal shall be primed and painted. Primer shall be standard red oxide. Finish coat of paint shall be Pratt and Lambert Effecto Enamel or approved equal. Color shall be flat Black.



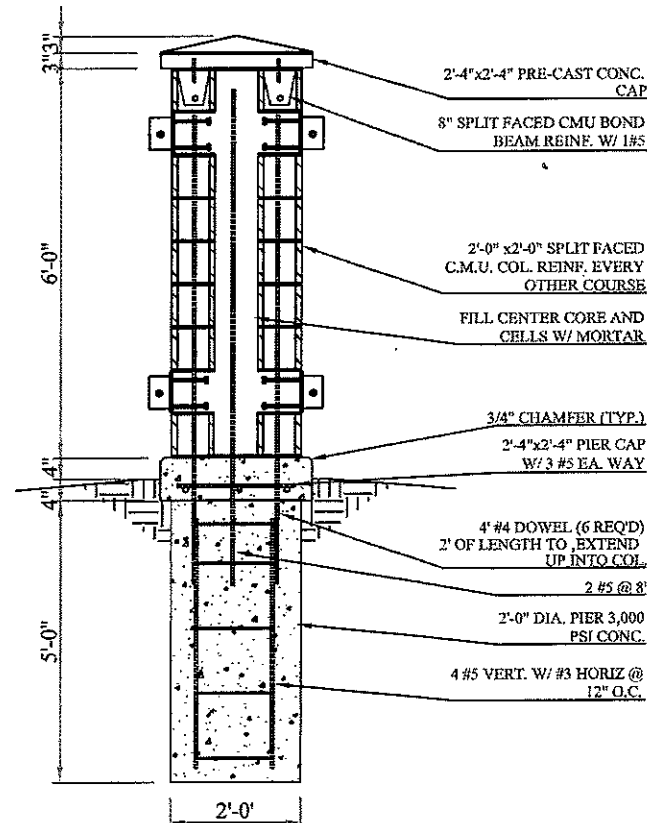
G-12  
5  
COLUMN ASSEMBLY  
1/4" = 1'-0"



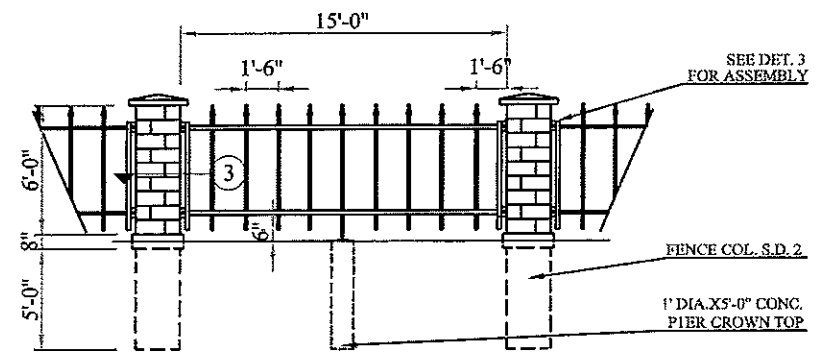
G-12  
4  
FENCE ASSEMBLY  
1/2" = 1'-0"



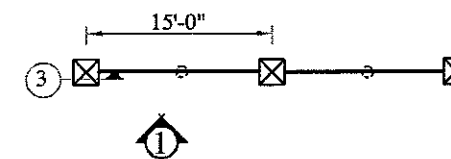
G-12  
3  
SECTION AT FENCE COL.  
3/4" = 1'-0"



G-12  
2  
FENCE COL. SECTION  
3/4" = 1'-0"



G-12  
1  
PERIMETER FENCE ELEV.  
1/4" = 1'-0"



G-12  
1  
COLUMN GROUP PLAN  
1/8" = 1'-0"

North Dakota  
 Department of Transportation  
**Fort Abraham Lincoln State Park**  
 Bikeway Landscape Enhancement Project  
 TES-1-806(026)067

Provided by North Dakota State University  
 Landscape Architecture Program  
 In Cooperation  
 with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HUL	7/23/97
DMM	6/08/98
HUL	8/17/98
HUL	12/23/98
CHC	7/20/99
DCC	7/16/01

Sheet No.  
**G-12**

FSWA REGION	STATE	FED. AID PROJ. NO.
8	N.D.	TES-1-806(026)067 067

- **Construction Notes:**

1. Sub-cutting, the removal and re-usage of existing gravel, and sub-base prep are required on site. The intent is to remove and stockpile the existing gravel to be used as base material after the required sub-cutting has been completed. Once the site is to grade, the site will be scarified to a depth of 8" and compacted to NDDOT specifications.
2. Parking Lot surfacing shall be constructed in two (2) lifts. The base course of three (3") inches, tack oil, and a surface course of two (2") inches.


North Dakota  
Department of Transportation

# Fort Abraham Lincoln State Park

Bikeway Landscape Enhancement Project  
TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program

In Cooperation  
with NDDOT



Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HJL	7/23/97
DMM	5/08/98
HJL	5/12/98
HJL	12/23/98
HJL	02/21/99
HJL	06/15/99
CHC	12/20/99
DCC	2/16/00

Sheet No.

# G-13

PLAN	DATE	BY	APP. NO.
8	N.D.	TES-1-806(026)067	063

North Dakota  
Department of Transportation

# Fort Abraham Lincoln State Park

Bikeway Landscape Enhancement Project  
TES-1-806(026)067

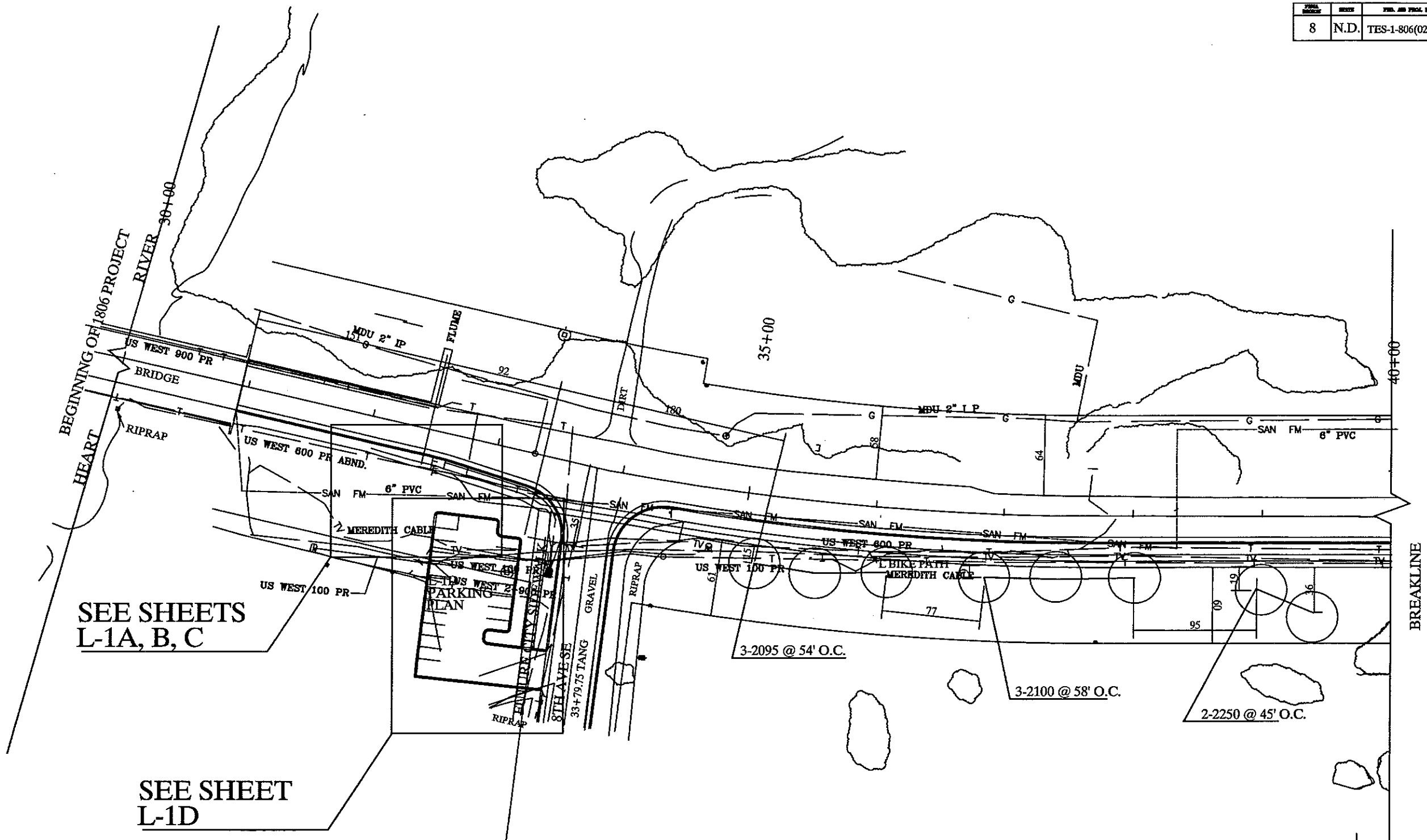
Provided by North Dakota State University  
Landscape Architecture Program

In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DVM	6/8/98
HLL	8/12/98
HLL	12/21/98
DCC	2/16/01

Sheet No.

# L-1



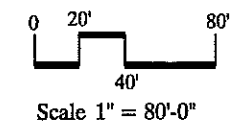
SEE SHEETS  
L-1A, B, C

SEE SHEET  
L-1D

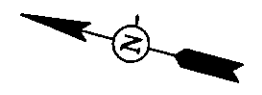
LEGEND	
	EXISTING VEG.
	EXISTING CON. TREES
	PROPOSED DEC. TREES
	PROPOSED DEC. SHRUBS
	PROPOSED CON. SHRUBS
	PROPOSED GR. COVERS

Plantings for sheet L-1

Trees	
2095	3
2100	3
2250	2



ORIGINAL SHEET  
SIZE IS 11x17



8	N.D.	TES-1-806(026)067
---	------	-------------------

151' +/- CORNER OF BRIDGE REFER TO SHEET L-1

PLANTING BED

R8' 22'-2"

31'

NEW PAVERS P.O.B.

R3'-6" R4'-5"

9'-6"

16'-2"

9'-6"

NEW BENCH

14'-6"

D-1: LIFE AND LEGACY OF SITTING BULL

BIKE PATH

GRAVEL

17'-6"

39°

NEW CONCRETE

R11'-4" R4'

R7'

R4'

R2'

NEW PAVERS

NEW CONCRETE

NEW PAVERS

R12'

D-2: NATIVE PEOPLE OF NORTH DAKOTA

AREA WITHIN THIS BOX CAN BE FURTHER DESCRIBED ON SHEET L-01D

NEW CONCRETE PAD SEE G-8/3

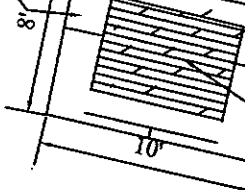
NEW TRASH CAN

NEW PAVERS

PLANTING BED

NEW PARKING LOT: SEE L-1D

NOTE: Concrete jointing shall be tooled into concrete as shown on the plan. No saw cuts acceptable.  
Field adjustments are acceptable if reviewed and approved by the Project Engineer. Maintain shapes as shown.



NEW PICNIC TABLE SEE G-8/3

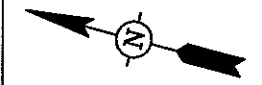
27'-3"

5'-8"

**LEGEND**

- BIKE RACK
- TRASH RECEPTACLE
- WOODEN BENCH

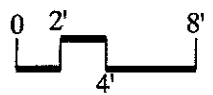
1  
L-1A



# LAYOUT PLAN

Scale 1/8" = 1'-0"

ORIGINAL SHEET SIZE IS 11x17



Drawn by:	HJL
Checked by:	DCC
Revised by:	Date
HJL	7/23/97
HJL	8/12/98
HJL	1/22/98
CHC	1/22/99
DCC	2/16/00

Sheet No.  
**L-1A**

North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bike way Landscape Enhancement Project  
TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program  
In Cooperation with NDDOT

8	N.D.	TES-1-806(026)067 062
---	------	--------------------------

North Dakota  
 Department of Transportation  
**Fort Abraham Lincoln State Park**  
 Bike way Landscape Enhancement Project  
 TES-1-806(026)067

4" DEPTH WOOD MULCH

TRASH CAN  
SEE DETAILS G-7/3 & 5

CONCRETE PAVERS  
SEE DETAIL G-6/3

BIKE PATH

6" STEEL EDGING

REFER TO SHEET D-01  
SEE DETAILS G-10/4 & 5

EDGE RESTRAINT  
SEE DETAIL G-6/3

WOODEN PERGOLA  
SEE DETAILS G-9/1-4  
Deminsion as required to concrete area

4 - BIKE RACKS  
SEE DETAILS G-7/1, 2 & 4

CONCRETE PAVERS  
SEE DETAIL G-6/3

4" DEEP 3/4" + GRAVEL

REFER TO SHEET D-02  
SEE DETAILS G-10/4 & 5

AREA WITHIN THIS BOX  
CAN BE FURTHER DESCRIBED  
ON SHEET L-01D

CONCRETE PAVERS  
SEE DETAILS G-6/3 & 4

NEW CONCRETE

NEW CONCRETE

NEW PICNIC TABLE  
SEE DETAILS G-8/3, 4, & 5

EDGE RESTRAINT  
SEE DETAIL G-6/3

TRASH CAN  
SEE DETAILS G-7/3 & 5

WOODEN BENCH  
SEE DETAIL G-8/1 & 2

NEW PARKING LOT: SEE L-1D

Provided by North Dakota State University  
 Landscape Architecture Program

In Cooperation  
 with NDDOT

Drawn by:	HJL
Checked by:	DCC
Revised by:	Date
HJL	7/23/97
DMM	6/08/98
HJL	8/12/98
HJL	12/23/98
CFC	12/20/99
DCC	2/16/00

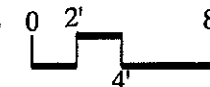
LEGEND	
	BIKE RACK
	TRASH RECEPTACLE
	WOODEN BENCH

1  
L-1B

# MATERIALS PLAN

Scale 1/8" = 1'-0"

ORIGINAL SHEET  
SIZE IS 11x17



Sheet No.  
**L-1B**



PLANTING	SHEET	PROJ. AND PROJ. NO.
8	N.D.	TES-1-806(026)067

ND 1806

North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bike way Landscape Enhancement Project  
TES-1-806(026)067

Re-seed Areas damaged by construction

BIKE PATH

Re-seed Areas damaged by construction

AREA WITHIN THIS BOX CAN BE FURTHER DESCRIBED ON SHEET L-01D

**PLANTING NOTES:**

SEE SHEET G-3 THROUGH G-5 AND SPECIFICATIONS FOR ADDITIONAL PLANTING INFORMATION.

ALL PLANTING AND SHRUB BEDS SHALL BE ROTOTILLED AND MULCHED WITHIN THE STEEL EDGE

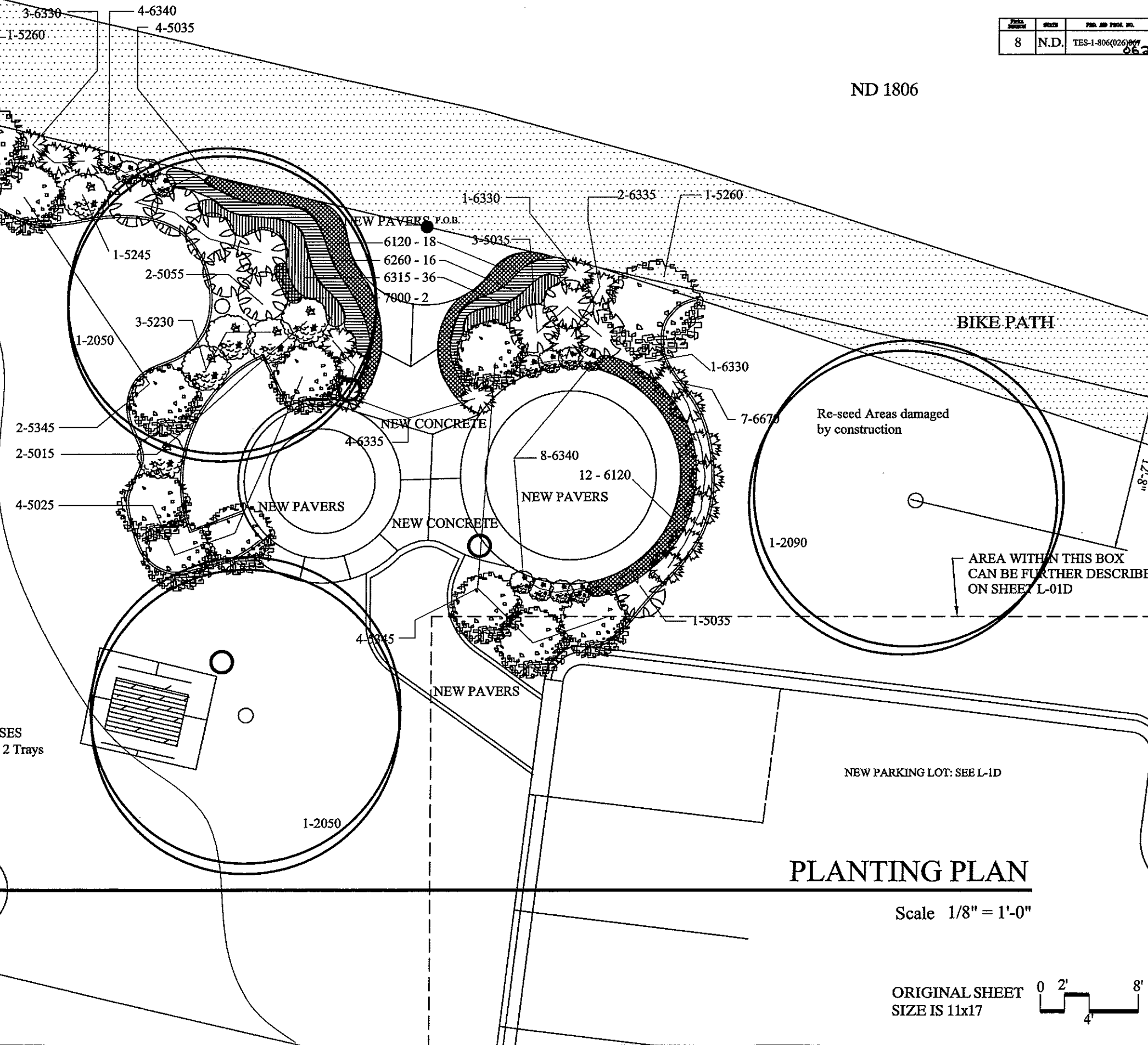
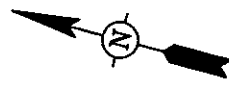
ALL PLANTING AREAS SHALL BE MULCHED TO A DEPTH OF 4"

**Plantings for Sheet L-1C**

TREES	SHRUBS	PERENNIALS	GRASSES
2050 2	5025 4	6120 18 Trays	7000 2 Trays
2090 1	5035 8	6260 16 Trays	
	5230 3	6335 6	
	5260 2	6330 5	
	5345 6	6340 12	
	5245 1	6315 36	
	5015 2		
	6670 7		
	5055 2		

LEGEND	
	EXISTING VEG.
	EXISTING CON. TREES
	PROPOSED DEC. TREES
	PROPOSED DEC. SHRUBS
	PROPOSED CON. SHRUBS
	PROPOSED GR. COVERS

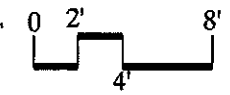
1  
L-1C



**PLANTING PLAN**

Scale 1/8" = 1'-0"

ORIGINAL SHEET SIZE IS 11x17



Drawn by:	HJL
Checked by:	DCC
Revised by:	Date
HJL	7/23/07
DMM	8/12/08
HJL	8/12/08
HJL	12/23/08
DCC	12/20/09
DCC	2/16/10

Sheet No.  
**L-1C**

Provided by North Dakota State University  
Landscape Architecture Program

In Cooperation with NDDOT

# 8th Ave SE

SHEET	NO.	TITLE AND PROJ. NO.
8	N.D.	TES-1-806(02/6)067 862

North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(02/6)067

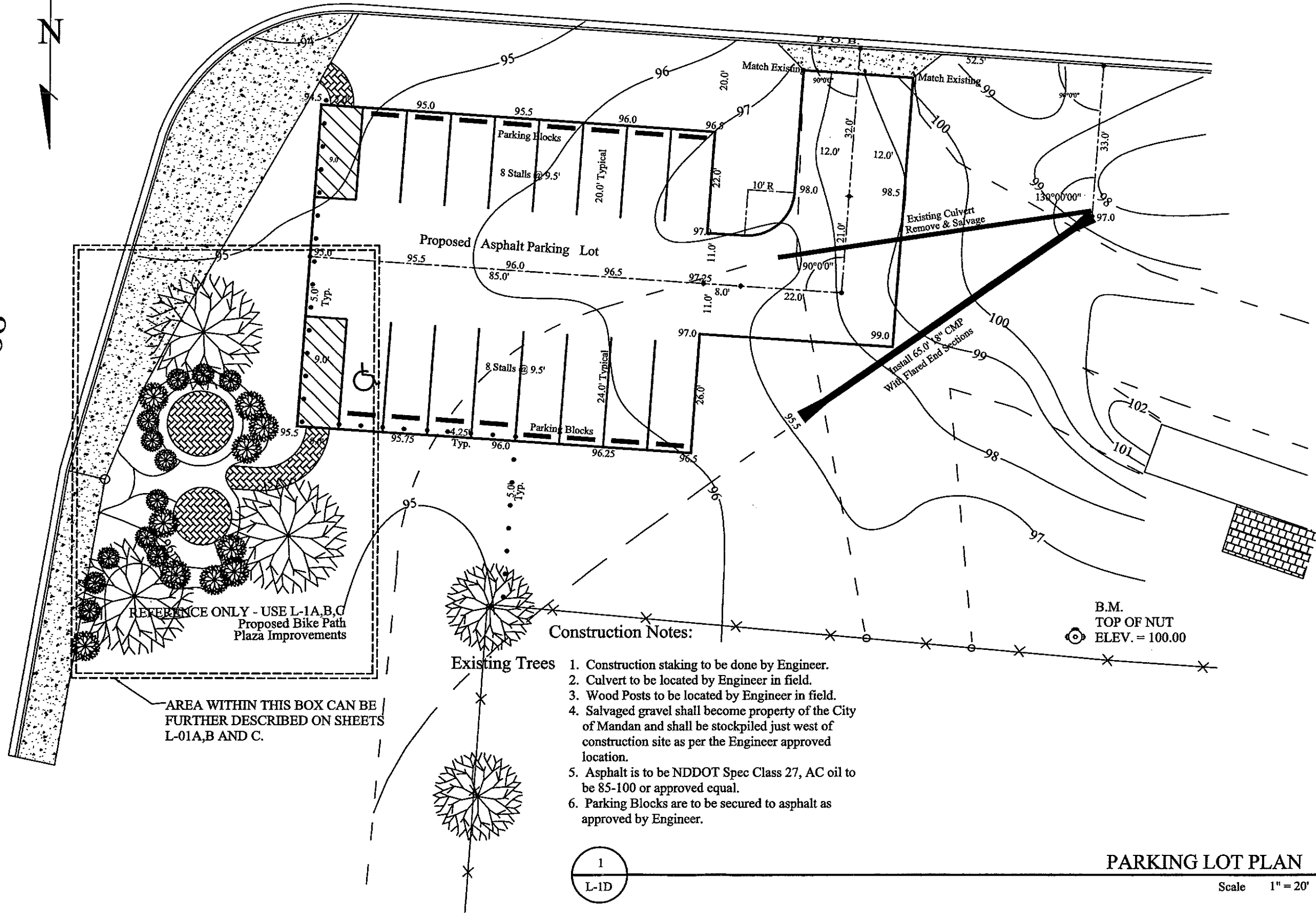
In Cooperation  
with NDDOT  
Provided by North Dakota State University  
Landscape Architecture Program

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
FJJ	7/23/07
HMM	6/08/08
HJL	8/12/08
FJJ	12/23/08
CHC	12/21/08
DCC	2/16/09

Sheet No.  
**L-1D**



Highway 1806



REFERENCE ONLY - USE L-1A,B,C  
Proposed Bike Path  
Plaza Improvements

AREA WITHIN THIS BOX CAN BE  
FURTHER DESCRIBED ON SHEETS  
L-01A,B AND C.

### Construction Notes:

#### Existing Trees

1. Construction staking to be done by Engineer.
2. Culvert to be located by Engineer in field.
3. Wood Posts to be located by Engineer in field.
4. Salvaged gravel shall become property of the City of Mandan and shall be stockpiled just west of construction site as per the Engineer approved location.
5. Asphalt is to be NDDOT Spec Class 27, AC oil to be 85-100 or approved equal.
6. Parking Blocks are to be secured to asphalt as approved by Engineer.

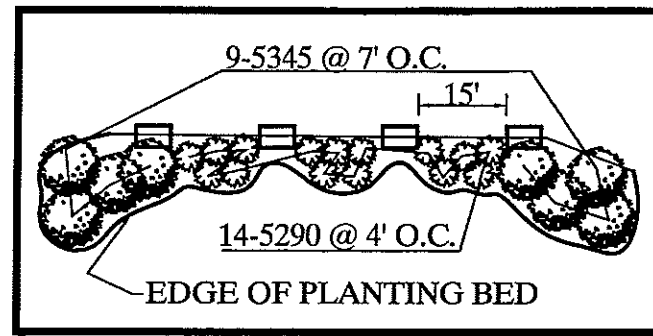
B.M.  
TOP OF NUT  
ELEV. = 100.00

1  
L-1D

## PARKING LOT PLAN

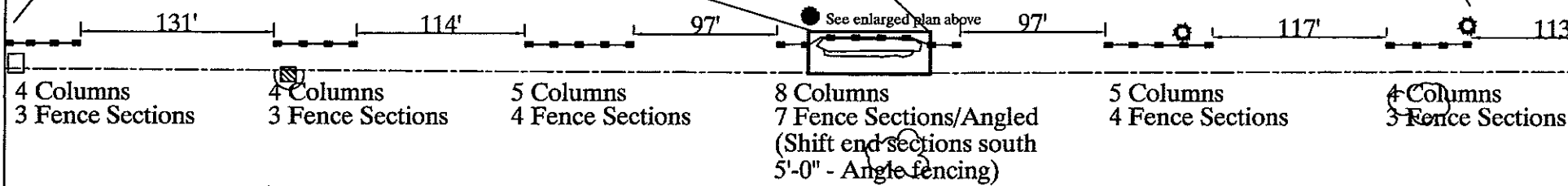
Scale 1" = 20'

FED. REGION	STATE	FED. AID PROJ. NO.
4	N.D.	TES-1-806(026)897 062



ENLARGED PLANTING PLAN  
Scale 1" = 20'-0"

NEW FENCING  
SEE DETAILS G-11/1-5  
(Stake column locations for final location - approval)



SEE SHEET  
L-6C

BREAKLINE AT STA N 330+00

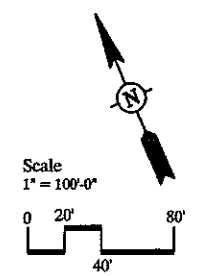
BREAKLINE AT STATION 344+00

Plantings for  
Sheet L-6

SHRUBS	
5290	14
5345	9

**LEGEND**

- EXISTING VEG.
- EXISTING CON. TREES
- PROPOSED DEC. TREES
- PROPOSED DEC. SHRUBS
- PROPOSED CON. SHRUBS
- PROPOSED GR. COVERS



NOTE: Final placement of the fence masonry columns shall be approved using a staking plan - location for each column prior to excavating

ORIGINAL SHEET  
SIZE IS 11x17

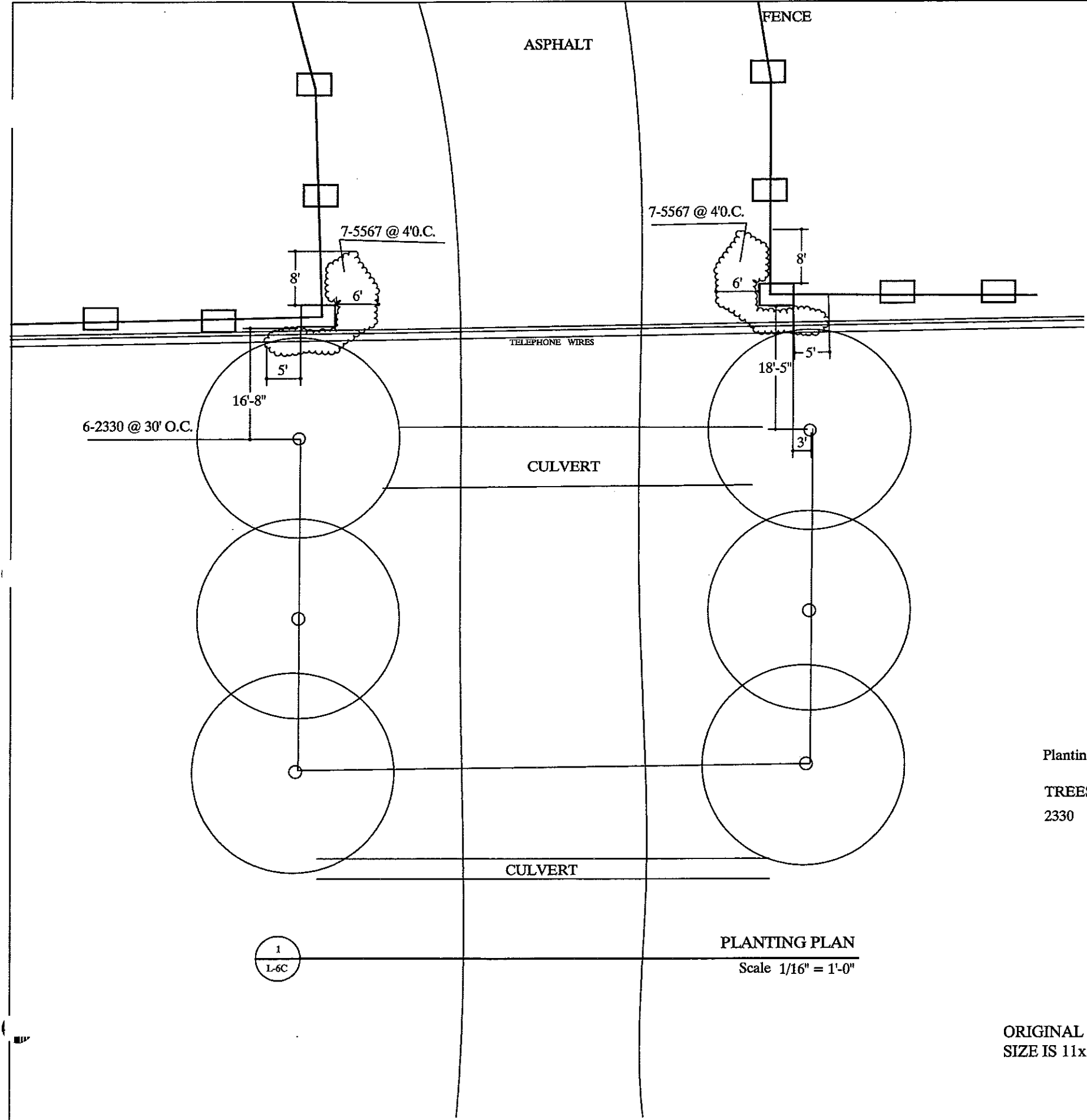
North Dakota  
Department of Transportation  
**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project  
TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program  
In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HLL	7/23/97
DMM	5/08/98
HLL	8/12/98
HLL	9/23/98
HLL	02/21/99
CHC	02/20/99
DCC	2/16/00

Sheet No.  
**L-6**

FED. AID REGION	STATE	FED. AID PROJ. NO.
8	N.D.	TES-1-806(026)067



**PLANTING NOTES:**

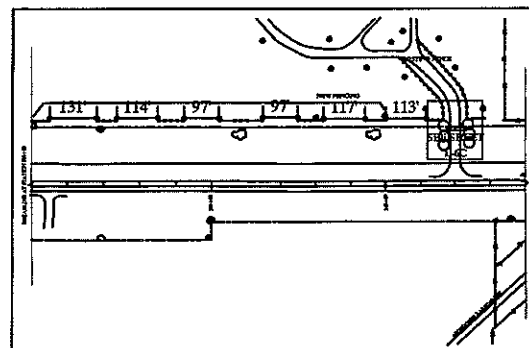
SEE SHEET G-3 THROUGH G-5 AND SPECIFICATIONS FOR ADDITIONAL PLANTING INFORMATION.

ALL PLANTING AND SHRUB BEDS SHALL BE ROTOTILLED AND MULCHED WITHIN THE STEEL EDGE

ALL PLANTING AREAS SHALL BE MULCHED TO A DEPTH OF 4"

**Plantings for Sheet L-25E**

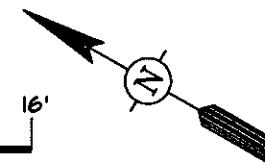
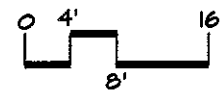
TREES	SHRUBS
2330 6	5567 14



**PLANTING PLAN**

Scale 1/16" = 1'-0"

ORIGINAL SHEET SIZE IS 11x17



LEGEND	
	EXISTING VEG.
	EXISTING CON. TREES
	PROPOSED DEC. TREES
	PROPOSED DEC. SHRUBS
	PROPOSED CON. SHRUBS
	PROPOSED GR. COVERS

North Dakota  
Department of Transportation

**Fort Abraham Lincoln State Park**  
Bikeway Landscape Enhancement Project

TES-1-806(026)067

Provided by North Dakota State University  
Landscape Architecture Program

In Cooperation  
with NDDOT

Drawn by:	CHC
Checked by:	DCC
Revised by:	Date
HJL	7/23/97
DMM	6/08/98
HJL	8/12/98
HJL	12/21/98
CHC	12/20/99
DCC	2/16/00

Sheet No.

**L-6C**



#### BIRTH AND CHILDHOOD

Sitting Bull (Tatanka Iyotanka) was born in the early 1830s, probably in 1831, along the Grand River near the present-day western South Dakota town of Bullhead at a place the Lakota called "Many Caheas." His mother's name was Her Holy Door and his father's name was Jumping Bull. He was from the Hunkpapa band of the Lakota. As a young boy he was called Hunkensi (Slow) because of his deliberate demeanor, a lifelong characteristic.

Sitting Bull was born into the old Lakota world and much of his early childhood education centered on acquiring practical skills such as running, hunting, and horsemanship. The Lakota virtues of fortitude, generosity, respect, and wisdom were woven into this training. So for instance, as a youth Sitting Bull was encouraged to run long distances, a skill that embodied the Lakota virtue of fortitude.

Sitting Bull killed his first buffalo at about the age of ten, and at fourteen he counted coup on an enemy. After these deeds he was publicly praised for his courage and in a ceremony his father gave him the name Sitting Bull. Sitting Bull was considered a young man at this point and, increasingly, his training underscored his obligation to care for his people by acquiring the skills of a warrior.

#### FAMILY LIFE

Sitting Bull was born into a caring extended family where his mother and father as well as aunts, uncles, and grand parent assumed a role in raising him and directing his activities. This family system was the typical model among Lakota people. His father, Jumping Bull, was a noted warrior and hunter. In addition to training his son for the hunt and warfare, traditional skills necessary for Lakota males, Jumping Bull also made spirituality and prayer a vital component of Sitting Bull's life. From a very early age Sitting Bull rose before sunrise with his father and prayed, a custom he maintained his whole life. Sitting Bull's mother, Her Holy Door, taught her son compassion and encouraged him to be a good listener and a peacemaker, virtues Sitting Bull carried with him throughout life. Through family Sitting Bull was nurtured, protected and encouraged to develop his talents for the good Hunkpapa people.

#### ROLE IN WARRIOR SOCIETIES

Sitting Bull's skill and courage in warfare were well-known among his own people and eventually in the non-Indian world. As a young man Sitting Bull took part in intertribal warfare—his primary goal was to take horses. Sitting Bull earned his first war honors in a raid against Crow Indians when he was just fourteen. As a result of his bravery Sitting Bull was invited to join the prestigious Strong Heart warrior society whose members were renowned for their boldness in battle. Sitting Bull rose to the rank of a sash-wearer in the Strong Hearts. Only the bravest men wore sashes, a strip of scarlet wool cloth that passed over the shoulder and dragged on the ground. In battles sash-wearers would stake themselves to the ground by a lance or picket, and they could not leave their post until a fellow Strong Heart released them.

Although Sitting Bull joined a number of warrior societies throughout his life his primary affiliation was to the Strong Hearts. As a mature man and respected war leader, Sitting Bull became a distinguished member of the Silent Eaters. Rather than warfare this society was concerned with tribal welfare and decision-making, increasingly matters of concern for Sitting Bull who was recognized as a protector of his people.

#### SITTING BULL AND HIS FAMILY

Standing left to right is, Good Feather (Sister to Sitting Bull), Walks Looking (Daughter of Sitting Bull). Seated left to right is, Her Holy Door (Mother of Sitting Bull), Sitting Bull, Has Many Horses (Daughter of Sitting Bull), Iron Fly (Grandson of Sitting Bull).



#### HUNKPAPA BAND

Sitting Bull was a member of the Hunkpapa band of the Lakota nation. The Hunkpapa are a northern Lakota group whose traditional homelands included areas of North and South Dakota, Wyoming, Montana, Manitoba, and Saskatchewan. The name Hunkpapa means "campers at the end of the horn" and refers to their position in the large summer encampments. Customarily the various Lakota bands came together to hunt buffalo and conduct religious ritual during summer months and each band had a place in the camp circle. The Hunkpapa were the endmost band. In fact, because of their endmost position, the Hunkpapa camp was the first attacked by Reno's troops at the Battle of the Little Big Horn.

Like the other Lakota bands, the Hunkpapa people's lives were traditionally tied to the buffalo and the horse. The people were nomadic and lived in tipis year-round. During the time of the Sioux Wars (1864-1876) the Hunkpapa increasingly assumed a key leadership role, and Sitting Bull emerged as an important leader. Many of those famous warriors during this era were Hunkpapa, among them, Gall, Crow King, and Rain in the Face. In the 1868 Treaty the federal government assigned the Hunkpapa to be part of the Standing Rock Agency. This reservation, located in both North and South Dakota, is the present-day homeland of the Hunkpapa people.

*Sitting Bull*



#### SITTING BULL AND HIS WIFE

This is the most excellent likeness of Sitting Bull and his wife. Their Teepee is shown in the background. He with his pipe and she sits next to him with a blanket wrapped around her. Her earrings are made of musell shells, showing as plain as in life. She is his eighth wife, has six children and is thirty years of age.

#### VISION IN SUNDANCE

The sundance was the center of Lakota spiritual life. And during the course of his life Sitting Bull participated in a number of sundances. When Sitting Bull sundanced he prayed for the strength and well-being of his people, for plentiful herds of buffalo, and in thanksgiving for the blessings of the Great Spirit on his family and people.

In June 1876, as was customary among the Lakota, the various bands came together for a large summer encampment to hunt buffalo, conduct the sundance, and socialize. The people were camped in the valley of the Rosebud River (Montana Territory). Sitting Bull took part in the mid-June sundance, and it was during this ceremony he had a vision of many soldiers and their horses, all with their heads down, falling into the Indian camp. This was interpreted as meaning there would be a big Indian victory against the United States military. Two days later the Lakota fought and defeated soldiers under General George Crook in the Battle of the Rosebud, however Sitting Bull told them this was not the event he foretold. That came two weeks later on June 25, 1876 at the Battle of the Little Big Horn where Lakota, Cheyenne, and Arapaho warriors defeated troops under Reno and Benteen and defeated Custer's command.



#### VIRTUES OF A LAKOTA LEADER

Sitting Bull distinguished himself early as a hunter and warrior and rose to prominence among his own people as a generous man and capable war leader. Sitting Bull gained attention of the American public in 1866 for his attacks on soldiers and settlers at Fort Buford (located at the confluence of the Yellowstone and Missouri Rivers).

In response to intensifying outside pressures on the Lakota to give up large areas of land and be confined to a reservation the Hunkpapa and other northern Lakota bands, as well as a loose alliance of Oglala under Crazy Horse, attempted to consolidate leadership. So in 1866 or 1867 Sitting Bull was recognized as an important military and political leader of these bands.

In some accounts he is labeled as "supreme chief." Therefore, when negotiations were held with these bands, the United States increasingly dealt with Sitting Bull. In these negotiations Sitting Bull stated his determination to protect his people's homeland and their life ways, and he adamantly refused to sign any treaty or concede any territory.

In America history Sitting Bull is most noted for his role as a war leader in clashes against the United States military in the period known as the Sioux Wars (1864-1876). Among his own people, he is noted most for his belief in the strength of the traditional values and way of life and for his steadfast protection of his people and homeland. Today among the Lakota and many other American Indian tribal groups Sitting Bull is remembered through song and story for embodying the Lakota virtues of fortitude, generosity, respect, and wisdom.



Digital Image size 18" x 24"  
Overall Panel size 20" x 26"  
See g-10 & G-11

Display Panel One  
Sitting Bull

Sheet  
D-1

# People of the Plains

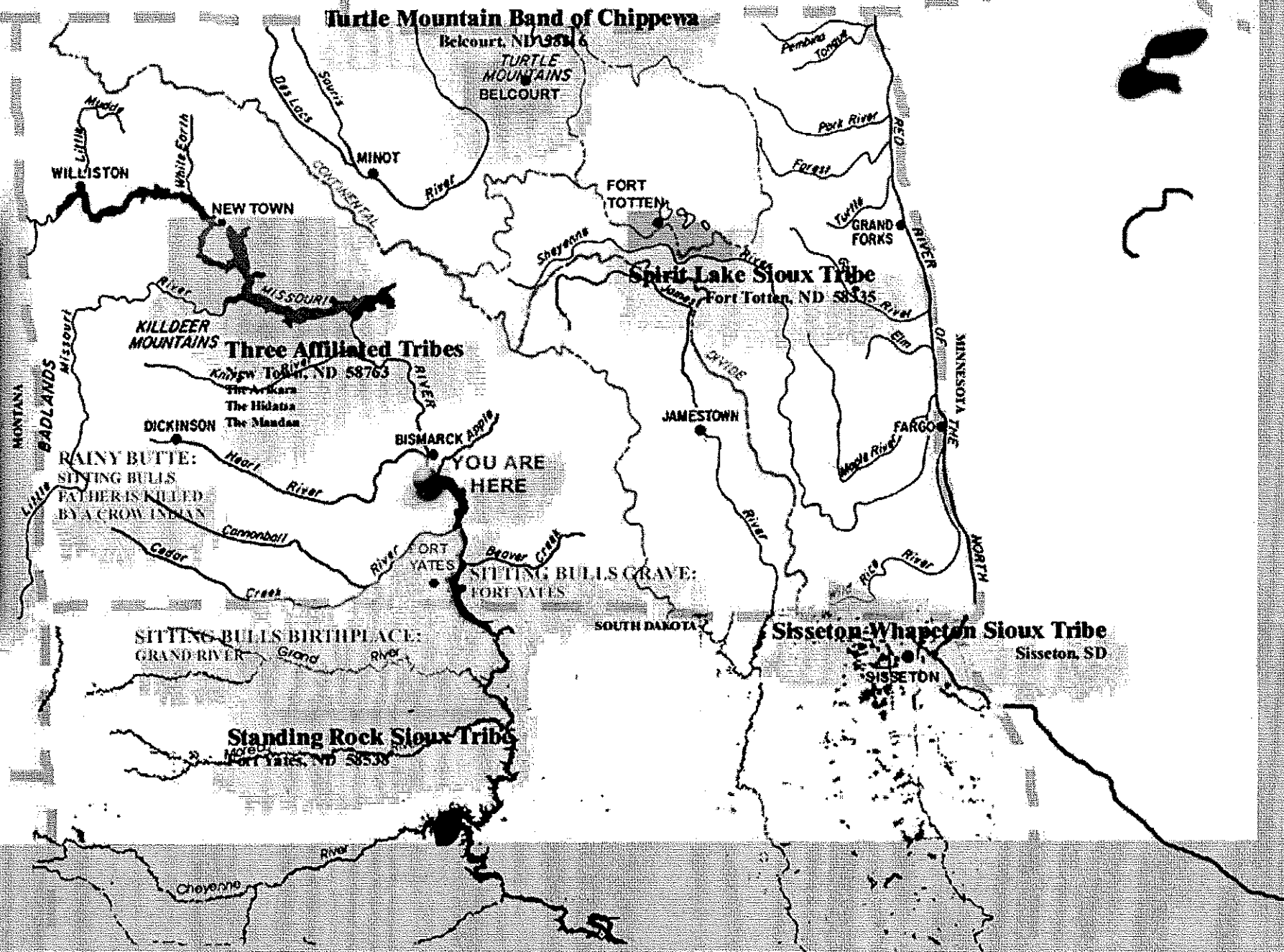
Digital Image size 18" x 24"  
 Overall Panel size 20" x 26"  
 See G-10 & G-11

Many Native People currently reside in the areas shown in color on the map.

North Dakota's native people are the descendants of ancient tribes—people who enjoyed peace, who survived years of turmoil and change.

Their culture and proud heritage have made an unparalleled contribution to North Dakota culture.

Although individual tribes differ in origin and history, each is somewhat united through beliefs, traditions, philosophies, respect for the Earth and an understanding of humankind's place with nature.



Display Panel Two  
 Native People of North Dakota

Sheet  
 D-2