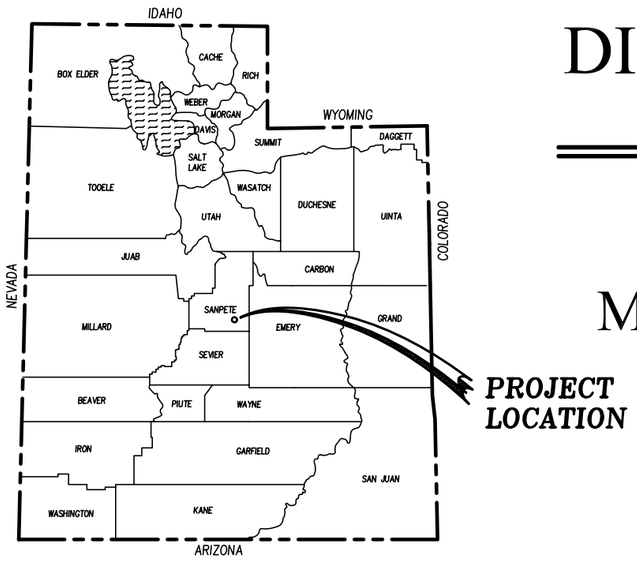
PROJECT NO.	SHEET NO.
08279510	1

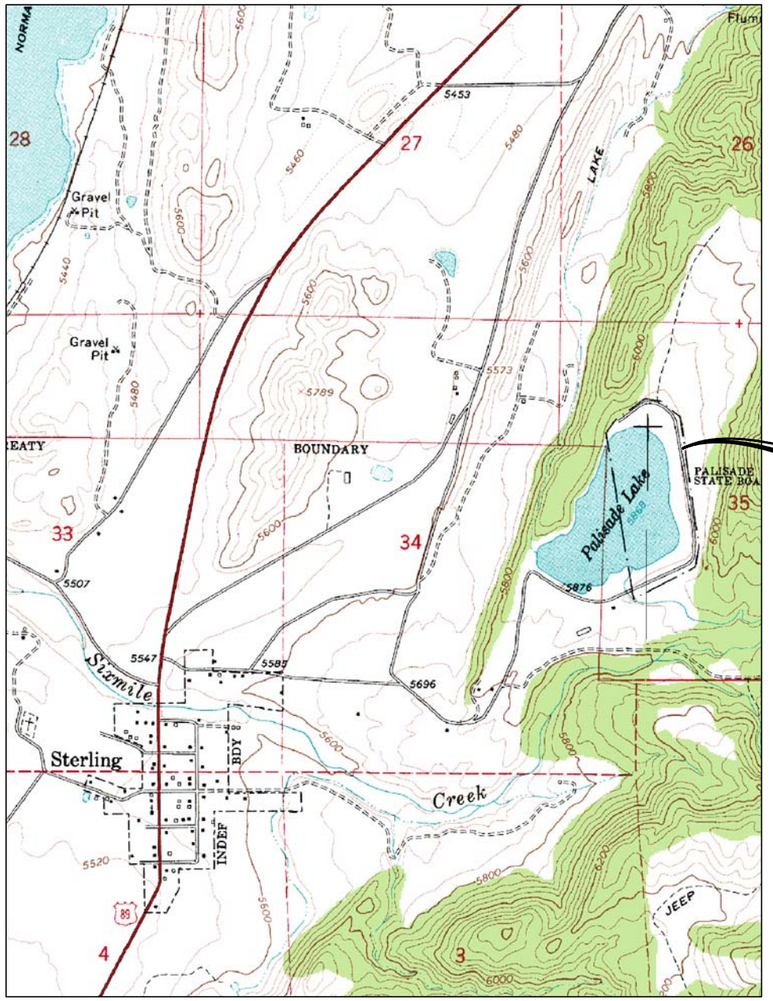
ISSUE DATE 12-17-2008

STATE OF UTAH
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT



PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS

DFCM PROJECT NO. 08279510



N

RECOMMENDED FOR APPROVAL:

Craig E. Johansen — 12-9-08
PROJECT ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER No. 146602 CRAIG E. JOHANSEN STATE OF UTAH

APPROVALS:

B. Lloyd — 12-17-08
STATE OF UTAH DFCM — DATE

Dan Clark — 12-17-08
UTAH STATE DIVISION OF PARKS AND RECREATION — DATE

johansen & tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 email jt@etv.net

INDEX TO SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	INDEX TO SHEETS, SUMMARY OF ITEMS
3	TYPICAL SECTIONS
4	ACCESSIBLE PARKING DETAIL
5	PAVEMENT MARKING ARROW DETAIL
6	KEY TO PLAN SHEETS
7–12	PLAN SHEETS
13	KEY TO PAINTING SHEETS
14–18	PAINTING SHEETS

SUMMARY OF ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY
1	CLEARING AND GRUBBING	LUMP	1
2	MOBILIZATION	LUMP	1
3	2–INCH HMA OVERLAY	SQ. FT.	121300
4	3–INCH HMA	SQ. FT.	29400
5	ASPHALT PAVEMENT SAWING	LIN. FT.	2100
6	EXCAVATION	SQ. FT.	29400
7	UNTREATED BASE COURSE	SQ. FT.	29400
8	GRANULAR BORROW 3–INCH MINUS	SQ. FT.	29400
9	PAVEMENT MARKING PAINT	LUMP	1

DESIGNED	HRT	9–08	CHECKED	CEJ	9–08
DRAWN	LMS	9–08	CHECKED	HRT	9–08
SURVEYED	BHT	9–08	CHECKED	LMS	9–08
R.O.W.			CHECKED		

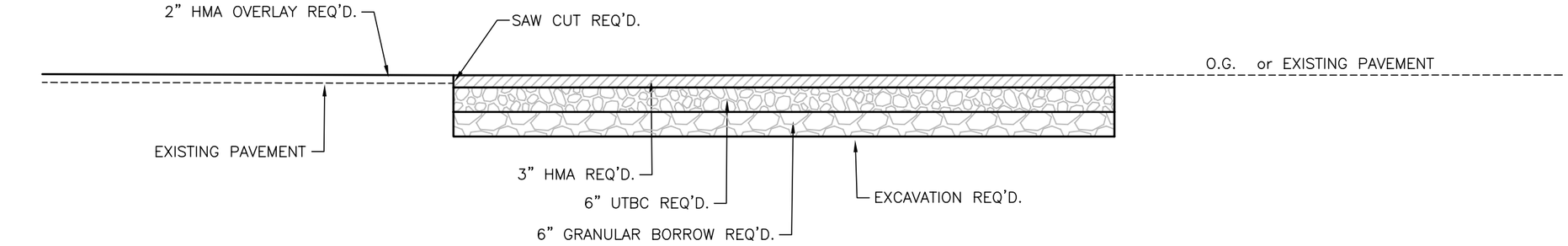
Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

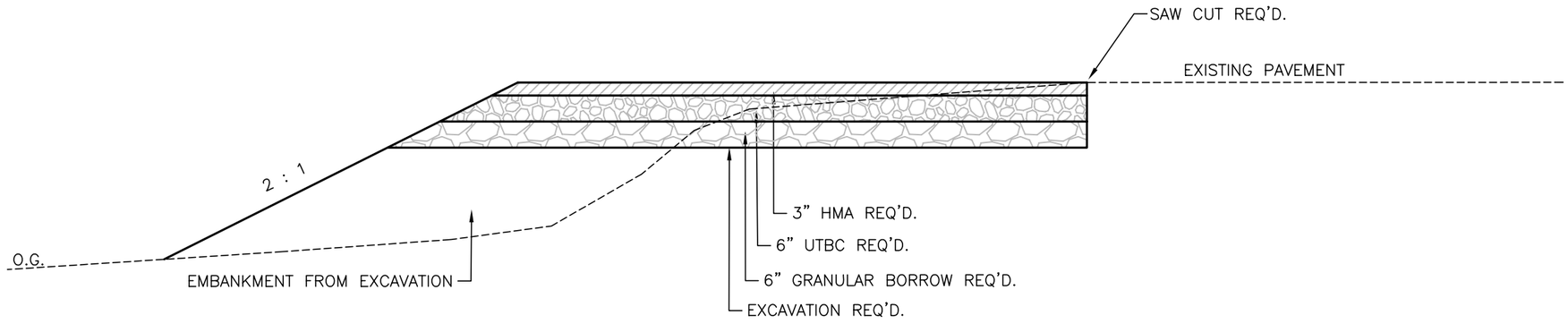
INDEX TO DRAWINGS
and SUMMARY of ITEMS

PROJECT NO.
08279510

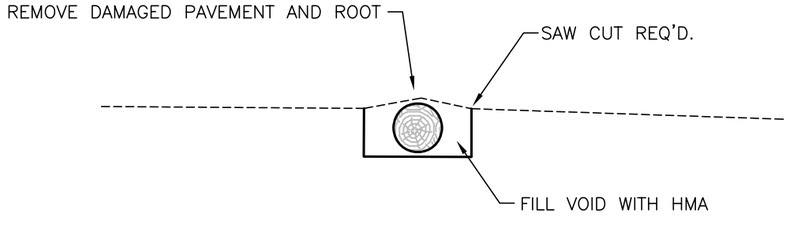
SHEET NO.
2



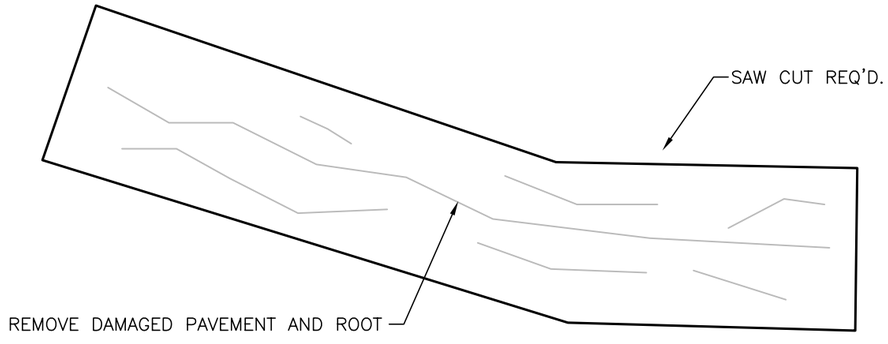
TYPICAL SECTION



NEW PARKING AREA
SECTION A–A



ROOT REMOVAL
SECTION VIEW



ROOT REMOVAL
PLAN VIEW

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		

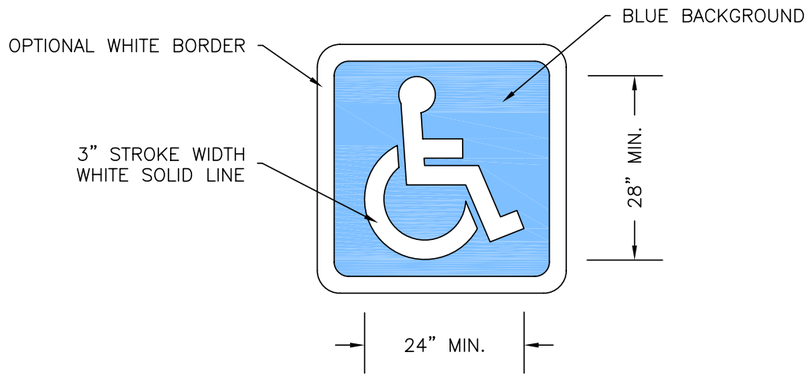
Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

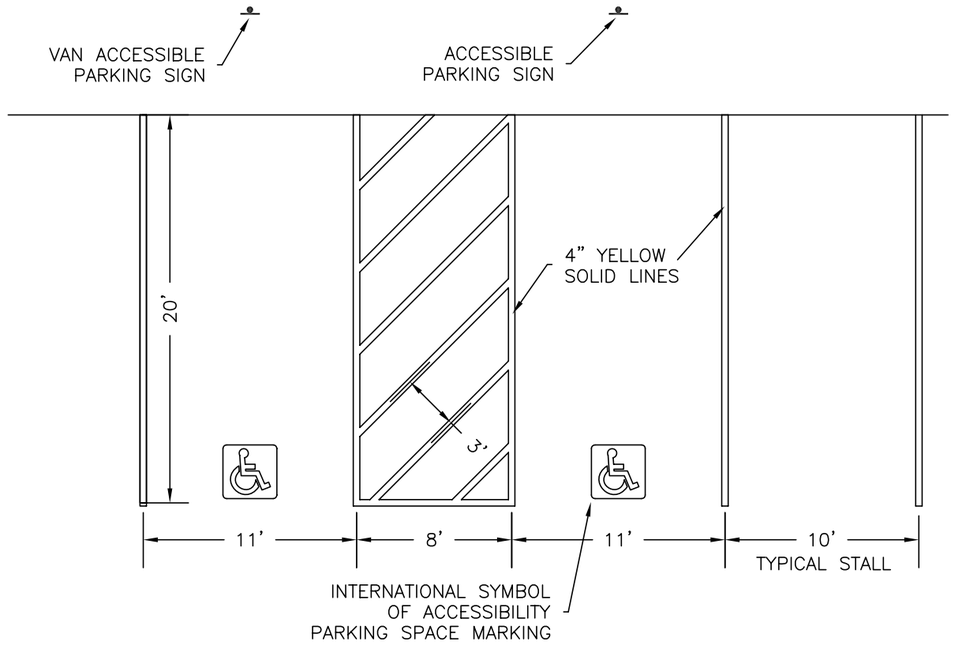
TYPICAL SECTIONS

PROJECT NO. 08279510

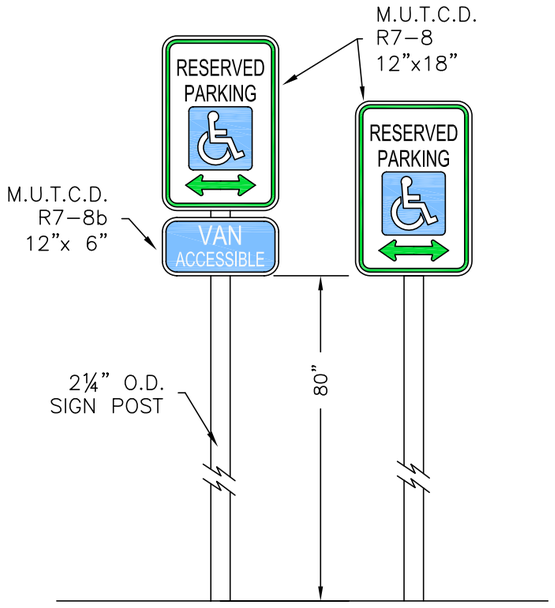
SHEET NO. 3



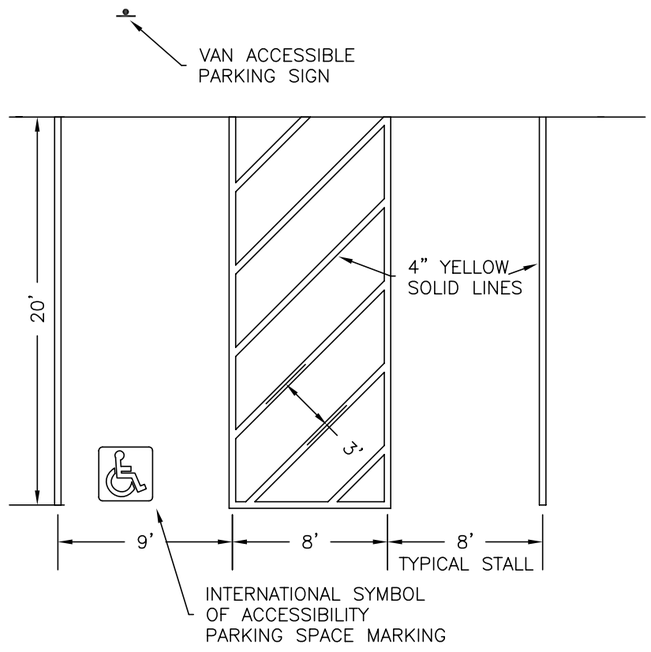
INTERNATIONAL SYMBOL
OF ACCESSIBILITY
PARKING SPACE MARKING



ACCESSIBLE PARKING SPACE MARKING
DETAIL A



ACCESSIBLE PARKING SIGN
DETAIL



ACCESSIBLE PARKING SPACE MARKING
DETAIL B

DESIGNED	HRT	9-08
DRAWN	LMS	9-08
SURVEYED	BHT	9-08
R.O.W.		

CHECKED	CEJ	9-08
CHECKED	HRT	9-08
CHECKED	LMS	9-08
CHECKED		

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

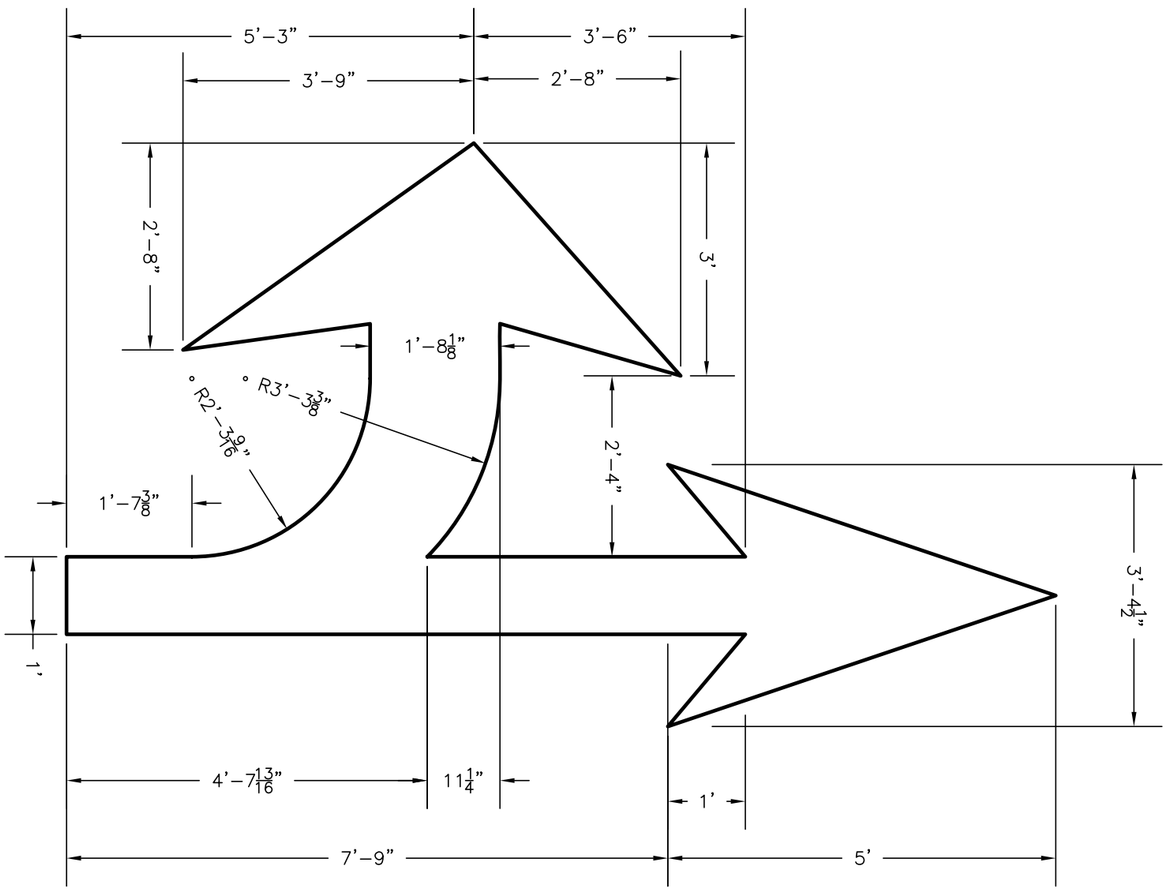
ACCESSIBLE PARKING
DETAIL

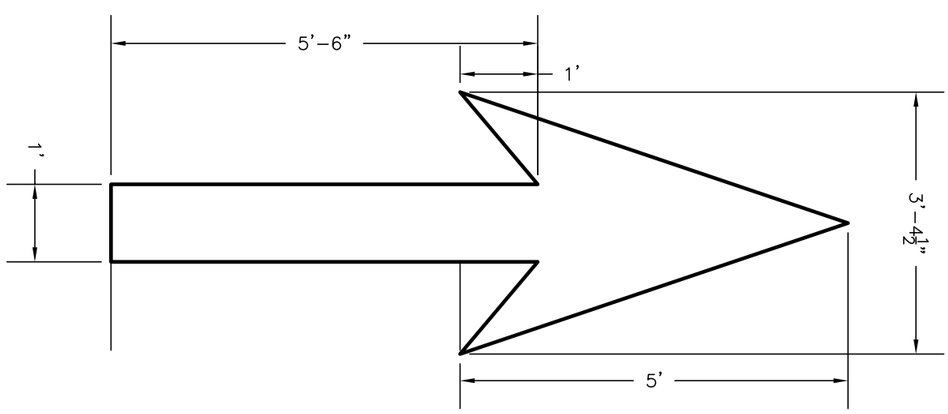
PROJECT NO.
08279510

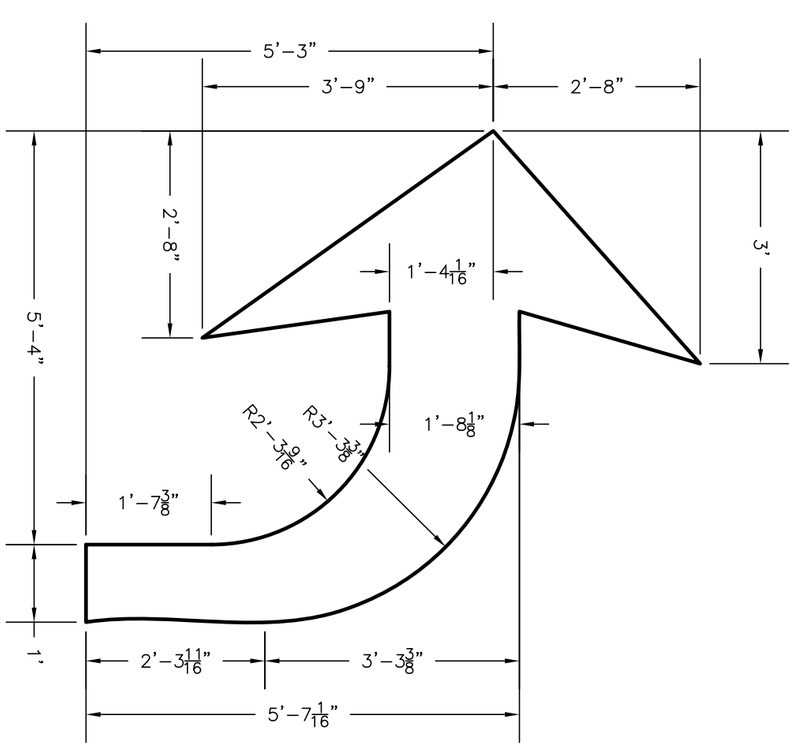
SHEET NO.
4

STANDARD PAVEMENT MARKING ARROWS

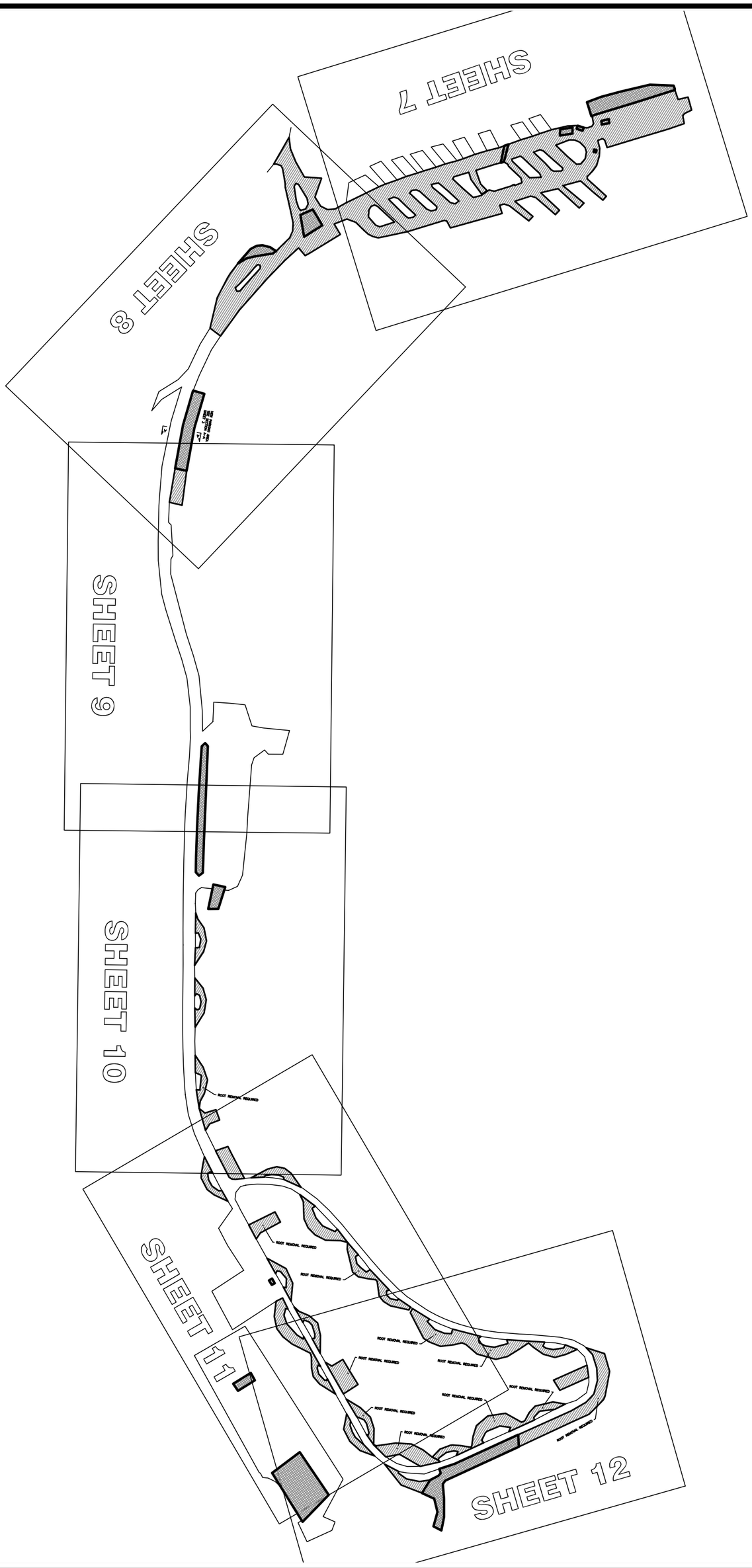
(MUTCD, STANDARD HIGHWAY SIGNS, PAVEMENT MARKINGS FIG. 10-8 & 10-10)







PROJECT NO. 08279510	PAVEMENT MARKING ARROW DETAIL	STATE of UTAH DFCM PALISADE STATE PARK MAIN CAMPGROUND PAVING IMPROVEMENTS PROJECT No. 08279510	Johansen & Tuttle ENGINEERING INC. BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523 FAX (435) 381-2522 EMAIL jt@etv.net	DESIGNED HRT 9-08	CHECKED CEJ 9-08	
SHEET NO. 5				DRAWN LMS 9-08	CHECKED HRT 9-08	
				SURVEYED BHT 9-08	CHECKED LMS 9-08	
				R.O.W.	CHECKED	



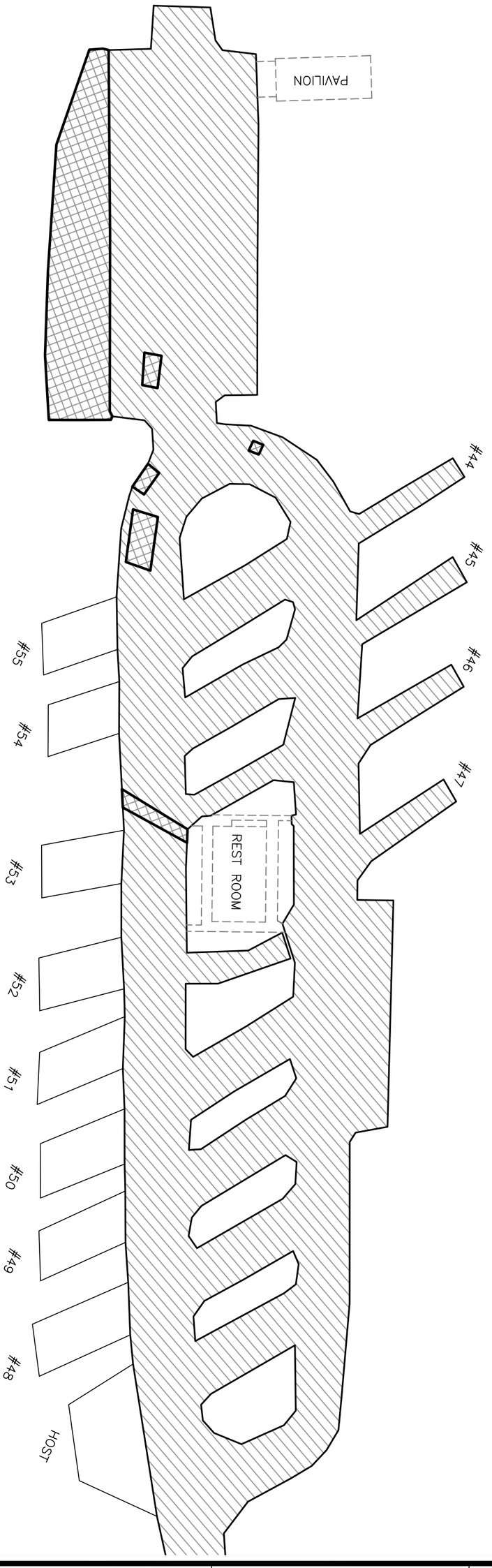
KEY TO PLAN SHEETS

PROJECT NO. 08279510
SHEET NO. 9

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		



2" HMA OVERLAY REQUIRED

3" HMA REQUIRED

N

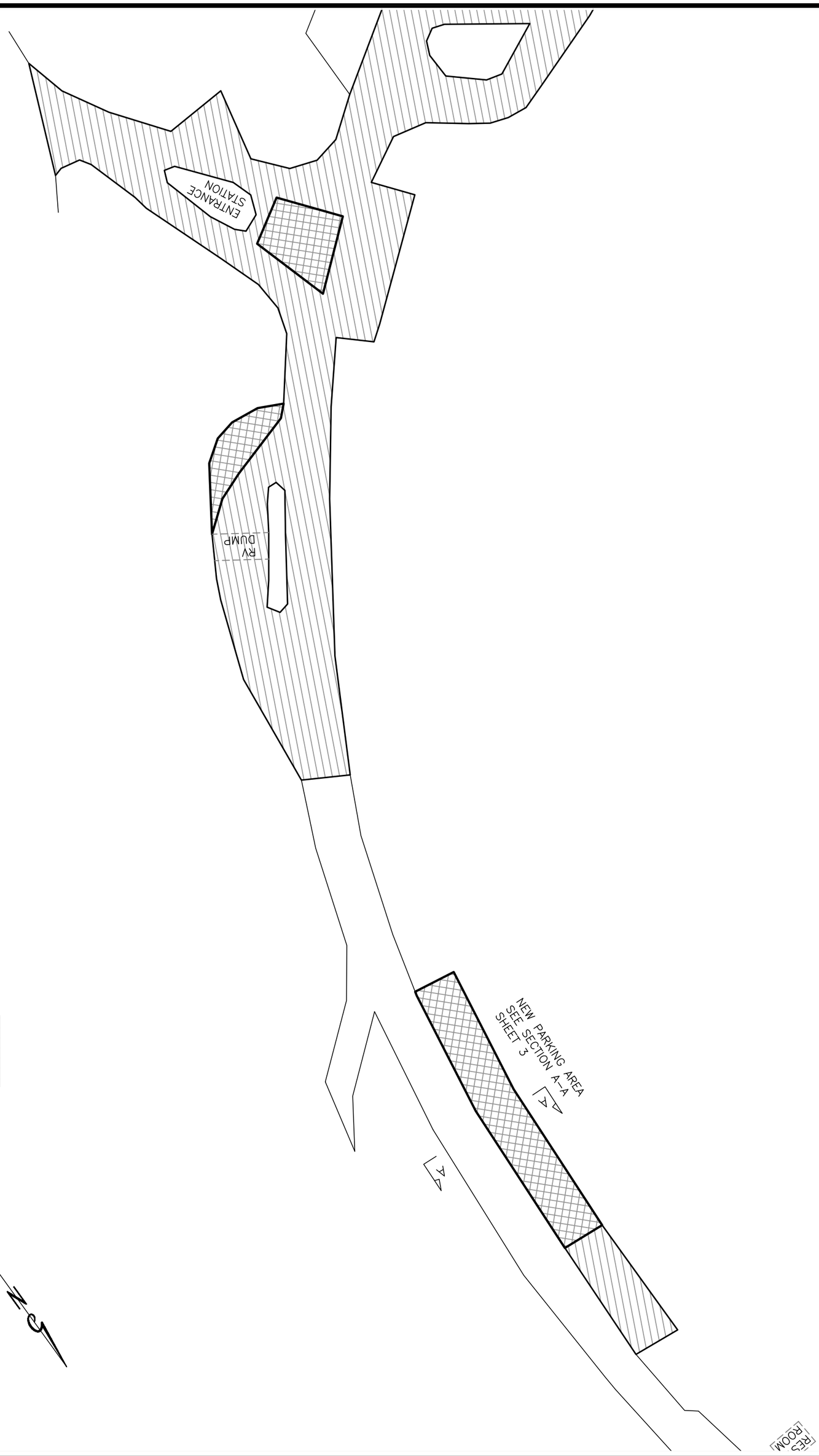
PROJECT NO. 08279510
SHEET NO. 7

PLAN SHEET

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		



PROJECT NO. 08279510
SHEET NO. 8

PLAN SHEET

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		

BOAT RAMP

PAVILION

#30

#31

#32

#33

#34

#35

REST ROOM

2" HMA OVERLAY REQUIRED

3" HMA REQUIRED

N

DESIGNED	HRT	10-08	
DRAWN	LMS	10-08	
SURVEYED	BHT	10-08	
R.O.W.			

CHECKED	CEJ	10-08
CHECKED	HRT	10-08
CHECKED	LMS	10-08
CHECKED		

johansen & tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PLAN SHEET

PROJECT NO.
08279510

SHEET NO.
9

#33
#32
#31
#30
#29
#28
#27
#26
#25
#24
#23D
#22

ROOT REMOVAL REQUIRED

2" HMA OVERLAY REQUIRED

3" HMA REQUIRED

N

ensen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

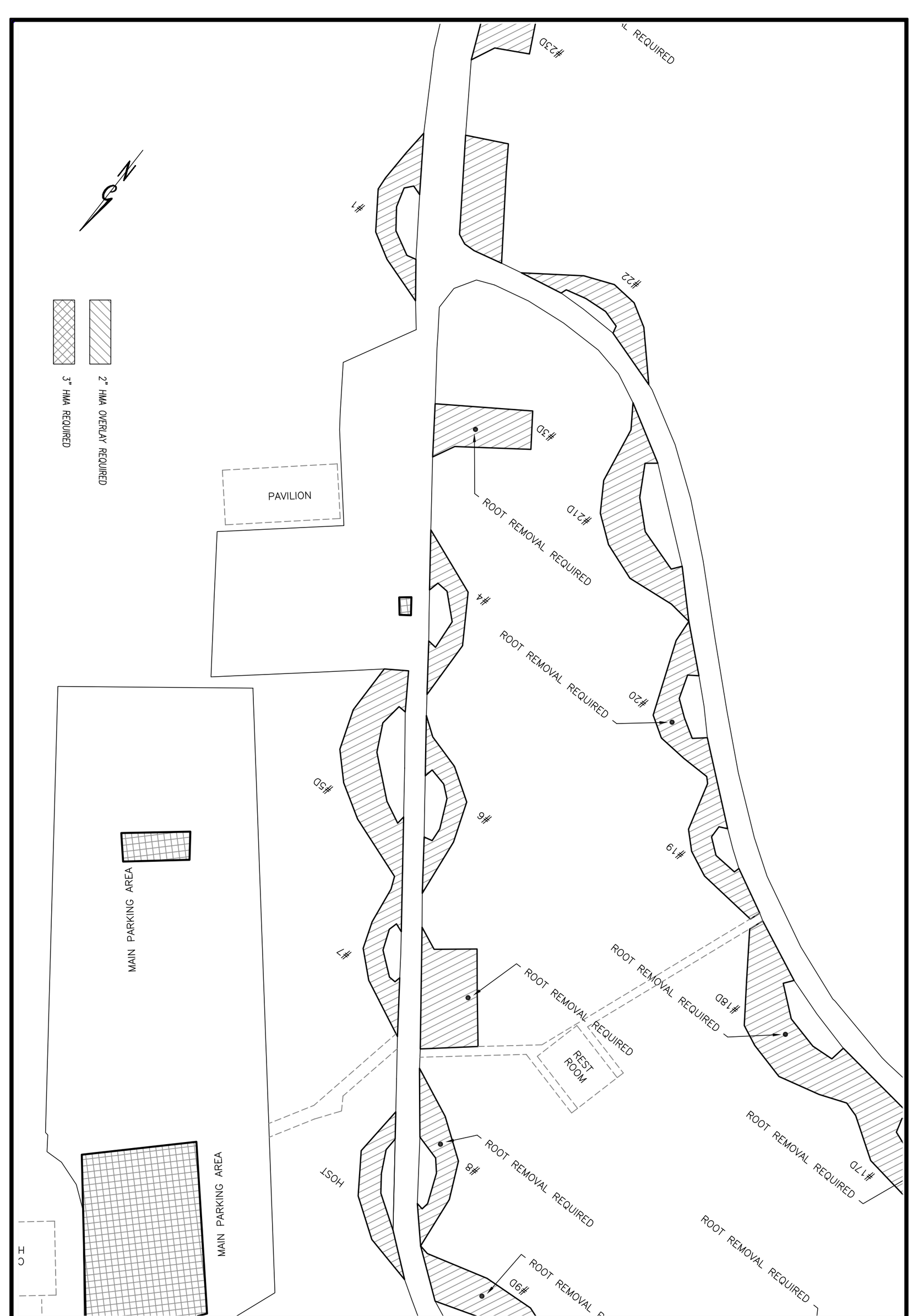
DESIGNED	HRT	10-08	CHECKED	CEJ 10-08
DRAWN	LMS	10-08	CHECKED	HRT 10-08
SURVEYED	BHT	10-08	CHECKED	LMS 10-08
R.O.W.			CHECKED	

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PLAN SHEET

PROJECT NO.
08279510

SHEET NO.
10



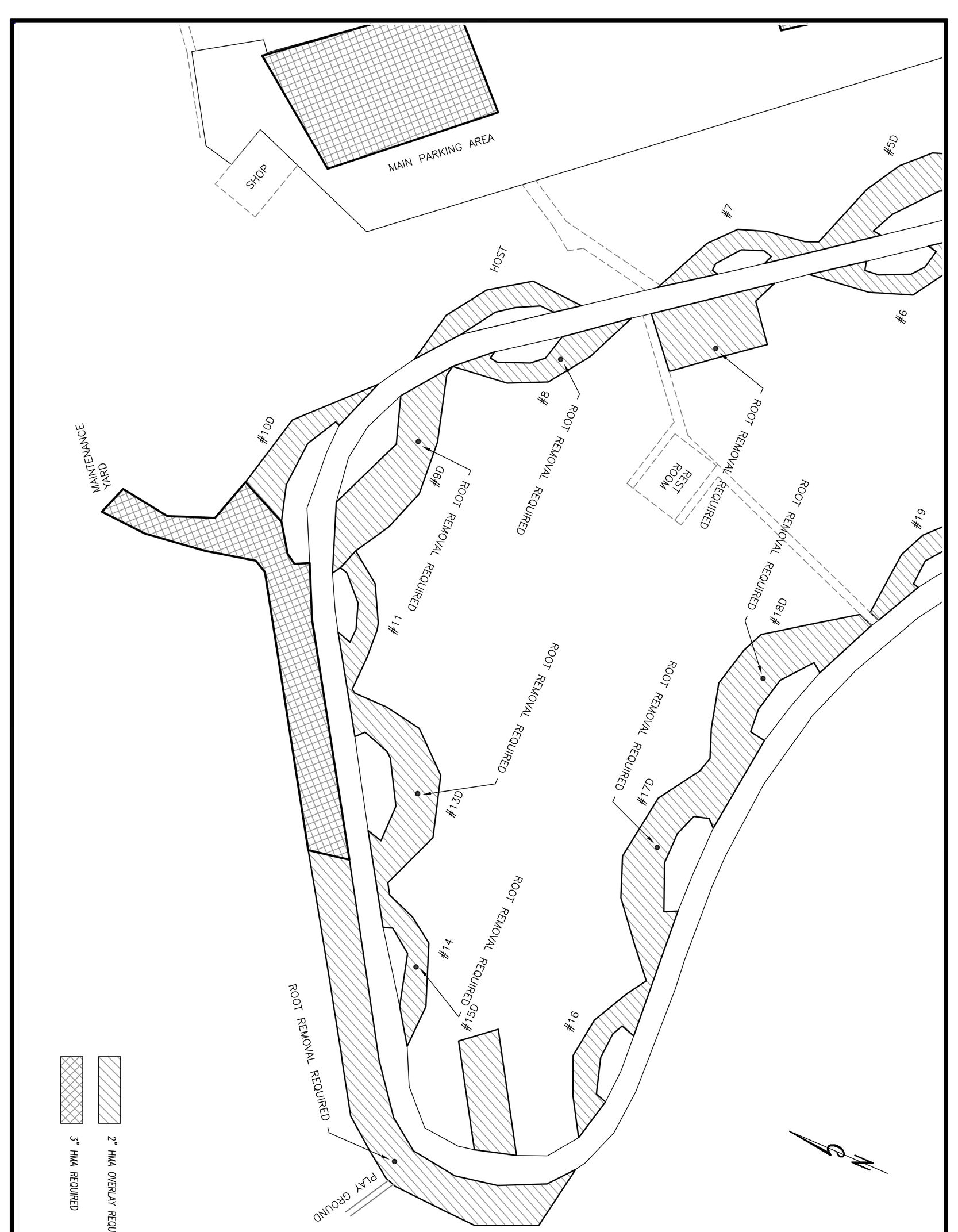
PROJECT NO. 08279510
SHEET NO. 11

PLAN SHEET

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		



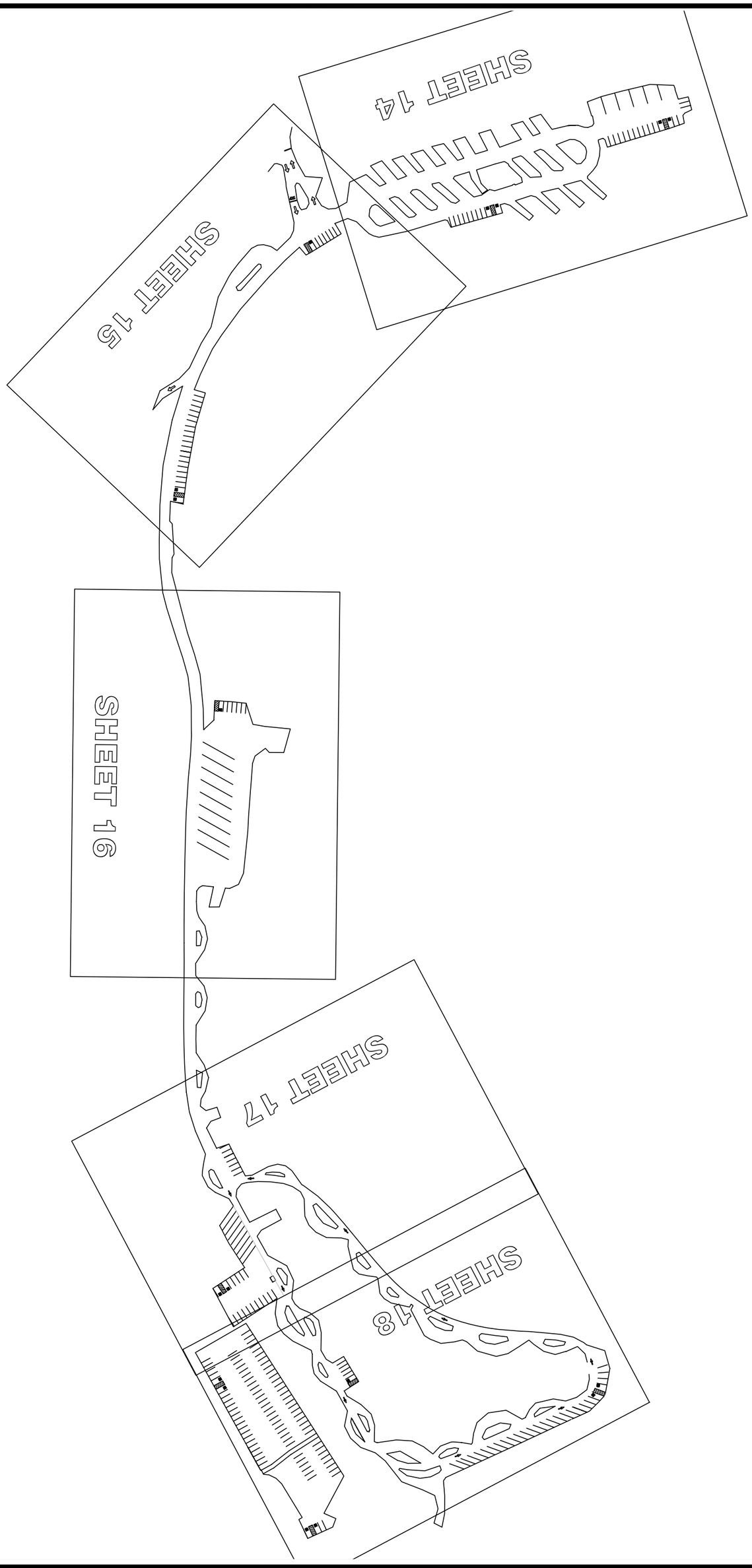
PROJECT NO. 08279510
SHEET NO. 12

PLAN SHEET

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		



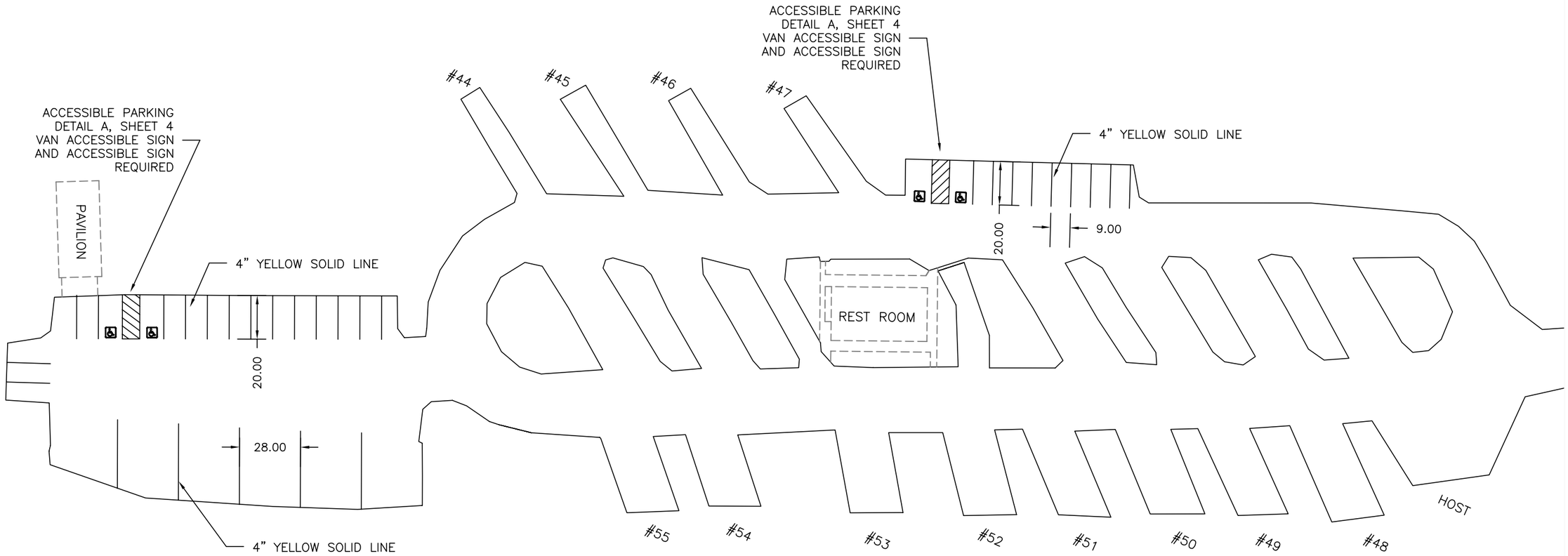
KEY TO
PAINTING SHEETS

PROJECT NO.
08279510
SHEET NO.
13

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		



	DESIGNED	DRAWN	SURVEYED	R.O.W.
HRT	10-08	CHECKED CEJ	10-08	
LMS	10-08	CHECKED HRT	10-08	
BHT	10-08	CHECKED LMS	10-08	
		CHECKED		

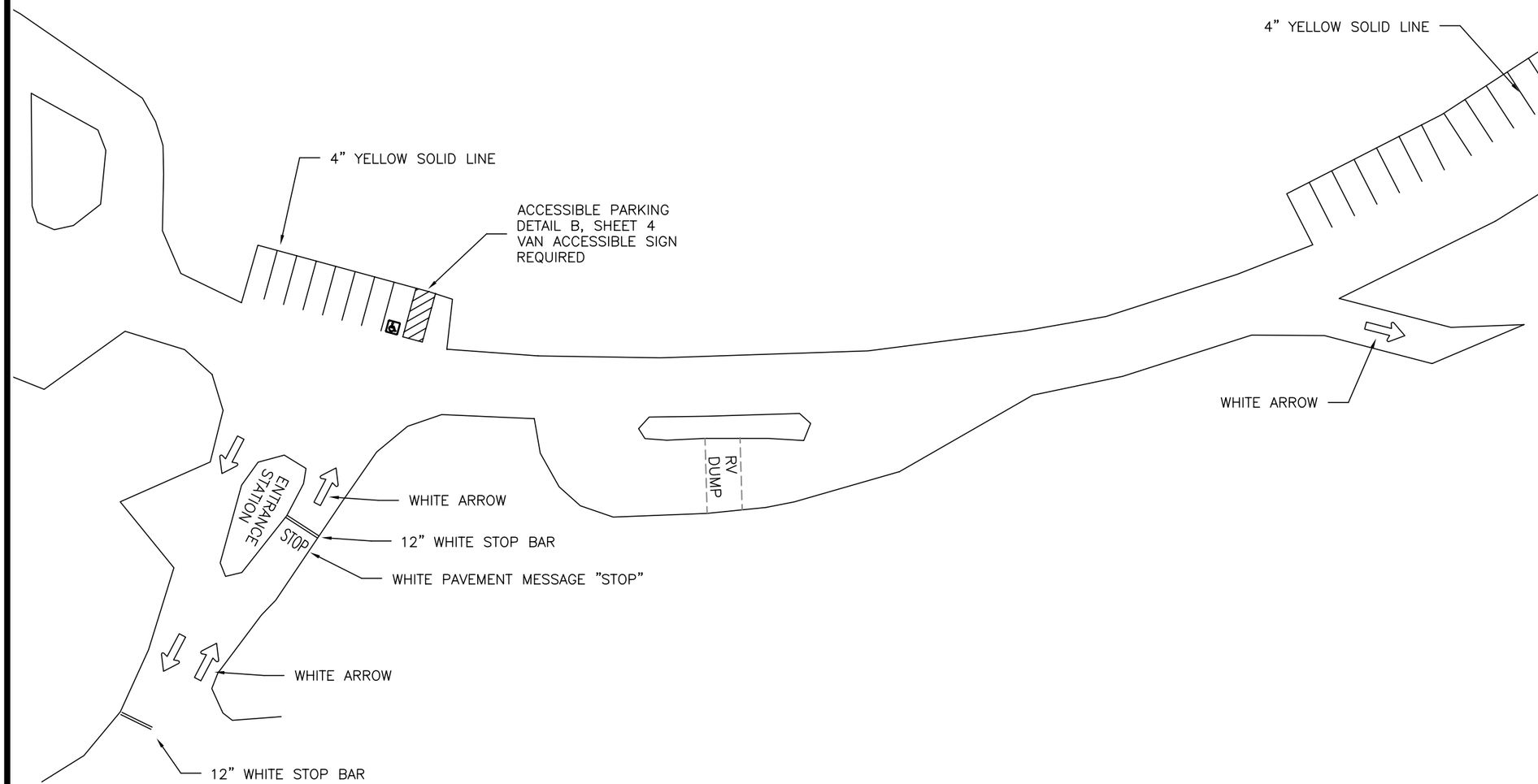
Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PAINTING SHEET

PROJECT NO.
08279510

SHEET NO.
14



DESIGNED	HRT	10-08
DRAWN	LMS	10-08
SURVEYED	BHT	10-08
R.O.W.		

CHECKED	CEJ	10-08
CHECKED	HRT	10-08
CHECKED	LMS	10-08
CHECKED		

Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PAINTING SHEET

PROJECT NO.
08279510

SHEET NO.
15

BOAT RAMP

PAVILION

ACCESSIBLE PARKING
DETAIL B, SHEET 4
RELOCATE EXISTING SIGN

22.00

#35 #34 #33 #32 #31 #30 #29 #28 #27 #26

4" YELLOW SOLID LINE

N

DESIGNED	HRT	10-08	CHECKED	CEJ 10-08
DRAWN	LMS	10-08	CHECKED	HRT 10-08
SURVEYED	BHT	10-08	CHECKED	LMS 10-08
R.O.W.			CHECKED	

jensen & tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL jt@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PAINTING SHEET

PROJECT NO.
08279510

SHEET NO.
16

DESIGNED	HRT	10-08	CHECKED	CEJ 10-08
DRAWN	LMS	10-08	CHECKED	HRT 10-08
SURVEYED	BHT	10-08	CHECKED	LMS 10-08
R.O.W.			CHECKED	

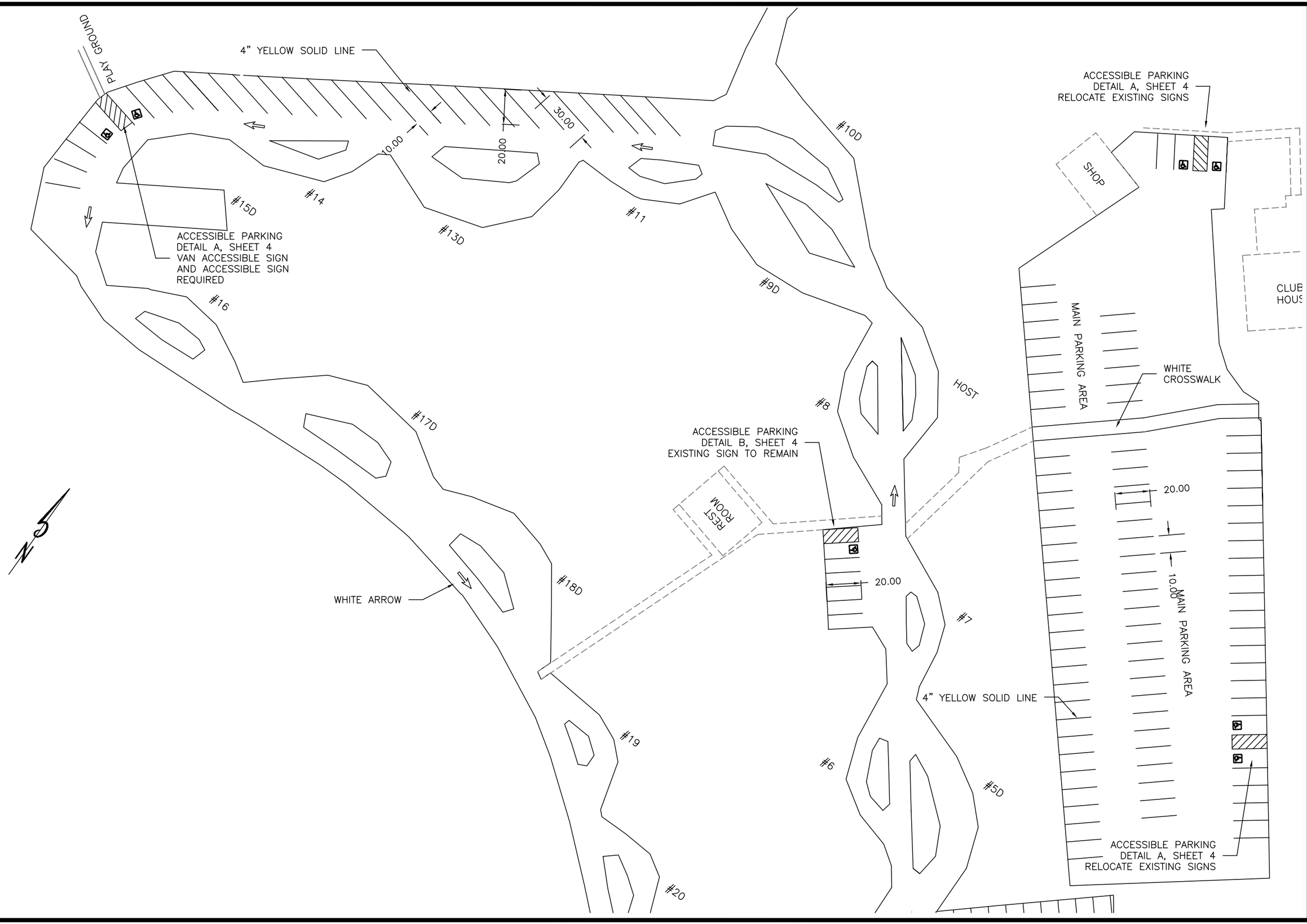
Johansen & Tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PAINTING SHEET

PROJECT NO.
08279510

SHEET NO.
17



DESIGNED	HRT	10-08	CHECKED	CEJ	10-08
DRAWN	LMS	10-08	CHECKED	HRT	10-08
SURVEYED	BHT	10-08	CHECKED	LMS	10-08
R.O.W.			CHECKED		

johansen & tuttle ENGINEERING INC.
BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523
FAX (435) 381-2522 EMAIL JT@etv.net

STATE of UTAH DFCM
PALISADE STATE PARK
MAIN CAMPGROUND PAVING IMPROVEMENTS
PROJECT No. 08279510

PAINTING SHEET

PROJECT NO.
08279510

SHEET NO.
18