

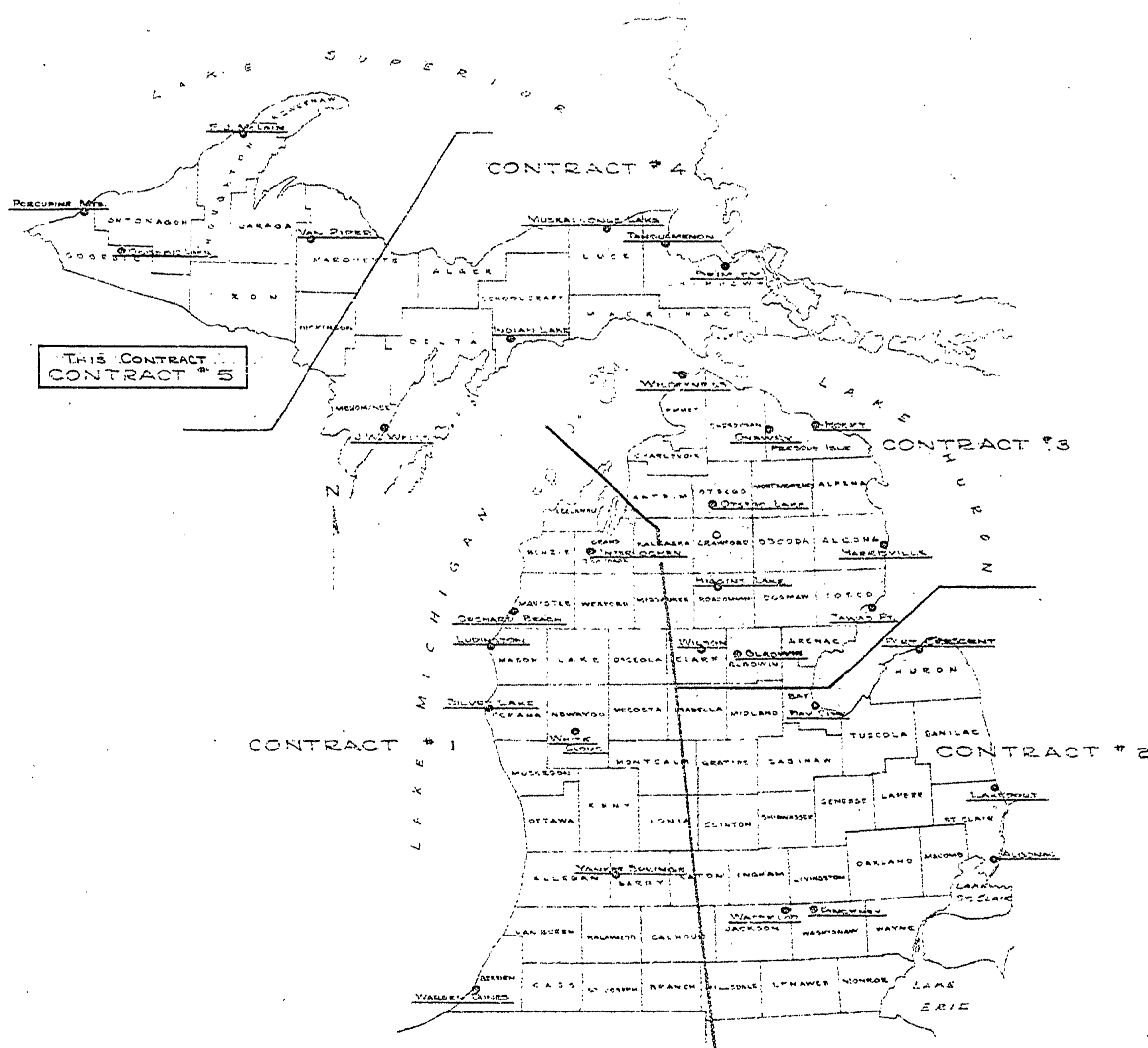
CONSTRUCTION PLANS FOR SANITATION STATIONS AT 4 MICHIGAN STATE PARKS CONTRACT NO. 5

SHEET INDEX

APPROVED _____
CHIEF, PARKS & RECREATION SECTION

| TITLE | SHEET NO. |
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| COVER SHEET | 1 |
| STD. DETAIL-SANITATION STATION | 2 |
| STD. DETAIL-MANHOLE | 3 |
| PLOT PLANS-CONTRACT NO. 5 | |

| PARK NAME | FILE NO. | PROJECT NO. | |
|----------------|----------|-----------------------|---|
| VAN RIPER | E-106 | RGI-7-108-300-271-C5A | 4 |
| MC LAIN | E-106 | PR37-258-300-013-C5 | 4 |
| GOGEBIC LAKE | E-108 | RGI-5-108-300-271-C5A | 5 |
| PORCUPINE MTS. | E-110 | PR 44-258-300-019-C 5 | 5 |



LOCATION MAP

- CONSTRUCTION NOTES
1. ALL WATER LINES SHALL HAVE 48" MIN. COVER OVER TOP OF PIPE.
 2. ALL SEWER LINES TO MANHOLE AND WET WELLS SHALL HAVE 3' MIN. COVER OVER TOP OF PIPE UNLESS OTHERWISE NOTED.
 3. ALL SEWER LINE GRADES SHALL BE DETERMINED BY THE ENGINEER. ALL SEWER LINE GRADERS, BUT NOT INCLUDING LINES IN THE FIELD, SHALL HAVE A MINIMUM SPACING OF 1" / 100' UNLESS OTHERWISE NOTED.
 4. ALL SEWER LINES TO SEPTIC TANKS AND TILE FIELD DISTRIBUTION BOXES SHALL HAVE AN 18" MIN. COVER OVER TOP OF PIPE EXCEPT UNDER SANITATION STATION GRADWAYS, WHERE THEY SHALL HAVE 2' MIN. COVER OVER TOP OF PIPE.
 5. MAXIMUM CUT FOR SEWER LINES WILL NOT EXCEED APPROX. 6' UNLESS OTHERWISE NOTED.
 6. WATER LINES AND SEWER LINES SHALL BE Laid IN SEPARATE TRENCHES AT LEAST 9' APART, CENTER TO CENTER, WHEN RUNNING SIDE BY SIDE.
 7. SEWER INVERTS AT WET WELLS SHALL BE 4" MIN. ABOVE THE HIGH LIQUID LEVEL.
 8. STANDARD PIPE FITTINGS OBVIOUSLY NEEDED TO COMPLETE ASSEMBLY SUCH AS ELBOWS AND REDUCERS ARE NOT SPECIFIED ON PLANS BUT SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE INCIDENTAL TO THE CONTRACT.
 9. ALL CLEAR AND GRADING QUANTITIES AND EARTHWORK QUANTITIES ARE APPROX. AND SUCH WORK SHALL BE INCIDENTAL TO THE CONTRACT. BERRYON QUANTITIES INCLUDE 20% FOR SHRINKAGE.

10. THESE PLANS ARE PROVIDED TO INSURE PROPER CONST. OF SANITATION STATIONS, WATER LINES TO EXIST. WATER SUPPLY, SEWER LINES TO EXIST, MANHOLES OR CONST. OF SEWER LINE, SEPTIC TANK & TILE FIELD INSTALLATIONS, AS DETAIL ON PLANS. THE SANITATION STATION LOCATION IS AS X-MARKED ON EACH PLOT PLAN & AS DETAILED ON SHEET 2. THE WATER & SEWER LINES ARE IN HEAVY BLACK LINES. NOTES IN BOXES DENOTE CONST. ITEMS.

LEGEND - PLOT PLANS

| | | | |
|--|--|----|-----------------|
| | SANITARY SEWER | SP | GALVANIZED PIPE |
| | MANHOLE OR WET WELL | DP | PLASTIC PIPE |
| | SEWER ELEV. | CI | CAST IRON |
| | INVERT ELEV. | VT | VITRIFIED TILE |
| | HLL HIGH LIQUID LEVEL - WET WELL | AC | ASBESTOS CEMENT |
| | STORM SEWER | CP | CORRUGATED PIPE |
| | CATCH BASIN | BI | BLACK IRON |
| | WATER LINE | | |
| | HYDRANT | | |
| | DRINKING FOUNTAIN | | |
| | TELEPHONE POLE | | |
| | UNDERGROUND TELEPHONE CABLE | | |
| | UNDERGROUND POWER CABLE | | |
| | UNDERGROUND AIR LINE | | |
| | DITCH | | |
| | DITCH BASIN | | |
| | BENCH MARK | | |
| | DRIVE MARKER - UNDERGROUND POWER CABLE | | |

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|----------------------------------|-----------------------------|
| CONSERVATION COMMISSION APPROVAL | |
| APPROVED FOR APPROVAL | <i>Anthony Hines 4-7-65</i> |
| RECOMMENDED FOR APPROVAL | <i>B. J. Pate 4-12-65</i> |
| DEPARTMENT OF CONSERVATION | |
| PLANNING | DESIGN |
| CONSTRUCTION | OPERATION |

Van Riper State Park

MICHIGAN
DEPARTMENT OF CONSERVATION
PARKS AND RECREATION DIVISION

SANITATION STATIONS

SHEET NO. 1 OF 5
PLAN NO. E-106, E-108 & E-110

| DATE | REVIEWED | DATE | APPROVED | DATE | NO. | DATE | BY | REVISIONS | DATE | BY |
|------|---------------|------|----------|------|-----|------|----|-----------|------|----|
| | ARCHITECTURAL | | | | 1 | | | 4 | | |
| | ENGINEERING | | | | 2 | | | 5 | | |
| | LANDSCAPE | | | | 3 | | | 6 | | |
| | | | | | | | | 0 | | |