

```

/**
 * @file RidgewoodJunction.jsx
 * @author Joey Damico
 * @date September 25, 2019
 * @summary React JSX Component Class that is for Ridgewood Junction
Interlocking
 *
 * Extends the React Component Class and is the UI part of the
Ridgewood Junction Interlocking,
 * this class controls all the drawings of routes, and also gives a
visual representation
 * of that status of the interlocking
 */

// Import React Component
import React, { Component } from 'react';
// Import CSS style sheet
import '../css/Main_Line/ridgewood_jct.css';

// Import Images
// Switch Images
import CX_135 from '../public/images/CX_135.png';
import CX_135_Lined_Top from '../public/images/
CX_135_Lined_Top.png';
import CX_135_Lined_Bottom from '../public/images/
CX_135_Lined_Bottom.png';
import CX_135_Lined_Both from '../public/images/
CX_135_Lined_Both.png';
import CX_135_R from '../public/images/CX_135_R.png';
import CX_135_R_Lined from '../public/images/
CX_135_R_Lined.png';
import CX_135_Lined_Top_Occupied_Bottom from '../public/
images/CX_135_Lined_Top_Occupied_Bottom.png';
import CX_135_Occupied_Top_Lined_Bottom from '../public/
images/CX_135_Occupied_Top_Lined_Bottom.png';
import CX_135_Occupied_Top from '../public/images/
CX_135_Occupied_Top.png';
import CX_135_Occupied_Bottom from '../public/images/
CX_135_Occupied_Bottom.png';
import CX_135_Occupied_Both from '../public/images/
CX_135_Occupied_Both.png';
import CX_135_R_Occupied from '../public/images/
CX_135_R_Occupied.png';

import CX_225 from '../public/images/CX_225.png';
import CX_225_Lined_Top from '../public/images/
CX_225_Lined_Top.png';
import CX_225_Lined_Bottom from '../public/images/
CX_225_Lined_Bottom.png';
import CX_225_Lined_Both from '../public/images/

```

```

CX_225_Lined_Both.png';
import CX_225_R from '../../../../../public/images/CX_225_R.png';
import CX_225_R_Lined from '../../../../../public/images/
CX_225_R_Lined.png';
import CX_225_Lined_Top_Occupied_Bottom from '../../../../../public/
images/CX_225_Lined_Top_Occupied_Bottom.png';
import CX_225_Occupied_Top_Lined_Bottom from '../../../../../public/
images/CX_225_Occupied_Top_Lined_Bottom.png';
import CX_225_Occupied_Top from '../../../../../public/images/
CX_225_Occupied_Top.png';
import CX_225_Occupied_Bottom from '../../../../../public/images/
CX_225_Occupied_Bottom.png';
import CX_225_Occupied_Both from '../../../../../public/images/
CX_225_Occupied_Both.png';
import CX_225_R_Occupied from '../../../../../public/images/
CX_225_R_Occupied.png';

import SW_U_E from '../../../../../public/images/SW_U_E.png';
import SW_U_E_Lined from '../../../../../public/images/SW_U_E_Lined.png';
import SW_U_E_Occupied from '../../../../../public/images/
SW_U_E_Occupied.png';
import SW_U_E_R from '../../../../../public/images/SW_U_E_R.png';
import SW_U_E_R_Lined from '../../../../../public/images/
SW_U_E_R_Lined.png';
import SW_U_E_R_Occupied from '../../../../../public/images/
SW_U_E_R_Occupied.png';

// Signal Images
import SIG_W from '../../../../../public/images/SIG_W.png';
import SIG_W_Clear from '../../../../../public/images/SIG_W_Clear.png';
import SIG_W_Stop from '../../../../../public/images/SIG_W_Stop.png';
import SIG_E from '../../../../../public/images/SIG_E.png';
import SIG_E_Clear from '../../../../../public/images/SIG_E_Clear.png';
import SIG_E_Stop from '../../../../../public/images/SIG_E_Stop.png';

// Color Constants For Drawing Routes
const Empty = '#999999';
const Green = '#75fa4c';
const Red = '#eb3323';

/**
 * The React JSX Component Class for the Ridgewood Junction
Interlocking
 *
 * This class is a JSX React Component for the Ridgewood Junction
Interlocking, this will control all the UI for the comonent,
 * and the click events that will pass reference between the backend
and the user. This also controls drawing the
 * route drawings to show if a route(s) is setup in the interlocking

```

or if the route is occupied

```
*/
class RidgewoodJunction extends Component {
  /**
   * State
   * @summary Object that holds the state or status information for
the component
   *
   * This object holds all the information for the interlocking that
is required to display the routes
   * correctly
   *
   * Anything that has "this.props." is passed down from the CTC
interlocking class
   */
  state = {
    // Switch Status
    sw_1: this.props.status.sw_1,
    sw_3: this.props.status.sw_3,
    sw_5: this.props.status.sw_5,
    sw_7: this.props.status.sw_7,
    sw_9: this.props.status.sw_9,
    // Image File for the switch - Will change depending on route
    sw_1_src: CX_135,
    sw_3_src: CX_135,
    sw_5_src: CX_225,
    sw_7_src: CX_225,
    sw_9_src: SW_U_E,
    // Image File for the signals - Will change depending on route
    sig_2w1_src: SIG_W,
    sig_2w2_src: SIG_W,
    sig_4w_src: SIG_W,
    sig_6w_src: SIG_W,
    sig_2e_src: SIG_E,
    sig_4e_src: SIG_E,
    sig_6e_src: SIG_E,
    // Colors for tail tracks - Will change depending on route
    tail_3_w: Empty,
    tail_1_w: Empty,
    tail_2_w: Empty,
    tail_1_center: Empty,
    tail_3_center: Empty,
    tail_m_1_e: Empty,
    tail_m_2_e: Empty,
    tail_b_1_e: Empty,
    tial_b_2_e: Empty,
    // Information For Interlocking Routes
    routes: this.props.status.routes,
    routed_1: this.props.status.routed_trk_1,
    routed_2: this.props.status.routed_trk_2,
```

```

        routed_3: this.props.status.routed_trk_3,
        occupied_track_1: this.props.status.occupied_trk_1,
        occupied_track_2: this.props.status.occupied_trk_2,
        occupied_track_3: this.props.status.occupied_trk_3
    };

    /**
     * componentWillReceiveProps()
     * @summary Function that updates the state of the component
     *
     * The data that is being changed is passed down from the CTC
classes in the simulation backend
     *
     * @param nextProps, the new data to set the component state too
     */
    componentWillReceiveProps(nextProps){
        this.setState({
            sw_1: nextProps.status.sw_1,
            sw_3: nextProps.status.sw_3,
            sw_5: nextProps.status.sw_5,
            sw_7: nextProps.status.sw_7,
            sw_9: nextProps.status.sw_9,

            routed_1: nextProps.status.routed_trk_1,
            routed_2: nextProps.status.routed_trk_2,
            routed_3: nextProps.status.routed_trk_3,
            occupied_track_1: nextProps.status.occupied_trk_1,
            occupied_track_2: nextProps.status.occupied_trk_2,
            occupied_track_3: nextProps.status.occupied_trk_3,
            routes: nextProps.status.routes
        });
    }
    // ---- END componentWillReceiveProps() ----

    /**
     * render()
     * @summary standard React function that draws the interlocking to
the screen
     */
    render() {
        // Clear all the drawings from the interlocking so if a train
clears the route is gone
        this.reset_drawings();
        // Set the switch images based off the state of each crossover
        this.set_switch_img();
        // Draw all the current routes in the interlocking
        this.set_route_drawing();

        // Returns the HTML to draw the interlocking and it's current
state to the screen

```

```

    return (
      <div>
        { /* Tags */ }
        <div className="ridgewood_title">RIDGEWOOD JUNCTION</
div>
        <div className="ridgewood_milepost">MP 20.3</div>
        { /* West Side Tail Tracks */ }
        <div className="m_ridgewood_3_west"
style={{background: this.state.tail_3_w}}></div>
        <div className="m_ridgewood_1_west"
style={{background: this.state.tail_1_w}}></div>
        <div className="m_ridgewood_2_west"
style={{background: this.state.tail_2_w}}></div>
        { /* Switches */ }
        <div className="ridgewood_1"
onClick={this.props.throw_sw_1}><img src={this.state.sw_1_src}/></div>
        <div className="ridgewood_3"
onClick={this.props.throw_sw_3}><img src={this.state.sw_3_src}/></div>
        <div className="ridgewood_5"
onClick={this.props.throw_sw_5}><img src={this.state.sw_5_src}/></div>
        <div className="ridgewood_7"
onClick={this.props.throw_sw_7}><img src={this.state.sw_7_src}/></div>
        <div className="ridgewood_9"
onClick={this.props.throw_sw_9}><img src={this.state.sw_9_src}/></div>
        { /* Center Tail Tracks */ }
        <div className="m_ridgewood_3_center"
style={{background: this.state.tail_3_center}}></div>
        <div className="m_ridgewood_1_center"
style={{background: this.state.tail_1_center}}></div>
        { /* East Side Tail Tracks */ }
        <div className="m_ridgewood_1_east"
style={{background: this.state.tail_m_1_e}}></div>
        <div className="m_ridgewood_2_east"
style={{background: this.state.tail_m_2_e}}></div>
        <div className="b_ridgewood_1_Diag"
style={{background: this.state.tail_b_1_e}}></div>
        <div className="b_ridgewood_1" style={{background:
this.state.tail_b_1_e}}></div>
        <div className="b_ridgewood_2" style={{background:
this.state.tail_b_2_e}}></div>
        { /* Signals */ }
        <div className="ridgewood_sig_6w"
onClick={this.props.click_sig_6w}><img src={this.state.sig_6w_src}/></
div>
        <div className="ridgewood_sig_2w-2"
onClick={this.props.click_sig_2w_2}><img src={this.state.sig_2w2_src}/
></div>
        <div className="ridgewood_sig_2w-1"
onClick={this.props.click_sig_2w_1}><img src={this.state.sig_2w1_src}/
></div>

```

```

        <div className="ridgewood_sig_4w"
onClick={this.props.click_sig_4w}><img src={this.state.sig_4w_src}/></
div>
        <div className="ridgewood_sig_6e"
onClick={this.props.click_sig_6e}><img src={this.state.sig_6e_src}/></
div>
        <div className="ridgewood_sig_2e"
onClick={this.props.click_sig_2e}><img src={this.state.sig_2e_src}/></
div>
        <div className="ridgewood_sig_4e"
onClick={this.props.click_sig_4e}><img src={this.state.sig_4e_src}/></
div>
    </div>
    );
}
// ---- END render() ----

/**
 * @summary Sets the drawing for the route through the
interlocking
 *
 * Function takes what routes are currently set in the
Interlocking class and displays that route in the UI, the drawing
 * will change depending on if the interlocking is occupied or not
 */
set_route_drawing() {
    let color_1 = Empty;
    let color_2 = Empty;
    let color_3 = Empty;
    if (this.state.routed_1) {
        color_1 = Green;
    }
    if (this.state.routed_2) {
        color_2 = Green;
    }
    if (this.state.routed_3) {
        color_3 = Green;
    }
    if (this.state.occupied_track_1) {
        color_1 = Red;
    }
    if (this.state.occupied_track_2) {
        color_2 = Red;
    }
    if (this.state.occupied_track_3) {
        color_3 = Red;
    }

    for (let i = 0; i < this.state.routes.length; i++) {
        if (this.state.routes[i] === "W_1_1__|__1_wc_ridgewood" ||

```

```

this.state.routes[i] === "E_1_1__|__1_ridgewood_suscon") {
    // Tail Tracks
    this.state.tail_m_1_e = color_1;
    this.state.tail_1_center = color_1;
    this.state.tail_1_w = color_1;

    if (this.state.occupied_track_1) {
        // Switch Images
        this.state.sw_9_src = SW_U_E_Occupied;

        if (this.state.routed_3) {
            this.state.sw_1_src =
CX_135_Lined_Top_Occupied_Bottom;
            this.state.sw_7_src =
CX_225_Lined_Top_Occupied_Bottom;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_1_src = CX_135_Occupied_Both;
            this.state.sw_7_src = CX_225_Occupied_Both;
        }
        else {
            this.state.sw_1_src = CX_135_Occupied_Bottom;
            this.state.sw_7_src = CX_225_Occupied_Bottom;
        }

        if (this.state.routed_2) {
            this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
            this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
        }
        else if (this.state.occupied_track_2) {
            this.state.sw_3_src = CX_135_Occupied_Both;
            this.state.sw_5_src = CX_225_Occupied_Both;
        }
        else {
            this.state.sw_3_src = CX_135_Occupied_Top;
            this.state.sw_5_src = CX_225_Occupied_Top;
        }

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
    }
    else {
        // Switch Images
        this.state.sw_9_src = SW_U_E_Lined;

        if (this.state.routed_3) {

```

```

        this.state.sw_1_src = CX_135_Lined_Both;
        this.state.sw_7_src = CX_225_Lined_Both;
    }
    else if (this.state.occupied_track_3) {
        this.state.sw_1_src =
CX_135_Occupied_Top_Lined_Bottom;
        this.state.sw_7_src =
CX_225_Occupied_Top_Lined_Bottom;
    }
    else {
        this.state.sw_1_src = CX_135_Lined_Bottom;
        this.state.sw_7_src = CX_225_Lined_Bottom;
    }

    if (this.state.routed_2) {
        this.state.sw_3_src = CX_135_Lined_Both;
        this.state.sw_5_src = CX_225_Lined_Both;
    }
    else if (this.state.occupied_track_2) {
        this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
        this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
    }
    else {
        this.state.sw_3_src = CX_135_Lined_Top;
        this.state.sw_5_src = CX_225_Lined_Top;
    }

    if (this.state.routes[i] === "W_1_1__|
__1_wc_ridgewood") {
        this.state.sig_2w1_src = SIG_W_Clear;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
    }
    else {
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Clear;
    }
}

}
else if (this.state.routes[i] === "W_4_1__|
__1_wc_ridgewood" || this.state.routes[i] === "E_1_4__|
__2_ridgewood_bt") {
    // Tail Tracks
    this.state.tail_b_2_e = color_1;
    this.state.tail_1_center = color_1;
    this.state.tail_1_w = color_1;

```



```

        if (this.state.occupied_track_1) {
            // Switch Images
            this.state.sw_9_src = SW_U_E_R_Occupied;

            if (this.state.routed_3) {
                this.state.sw_1_src =
CX_135_Lined_Top_Occupied_Bottom;
                this.state.sw_7_src =
CX_225_Lined_Top_Occupied_Bottom;
            }
            else if (this.state.occupied_track_3) {
                this.state.sw_1_src = CX_135_Occupied_Both;
                this.state.sw_7_src = CX_225_Occupied_Both;
            }
            else {
                this.state.sw_1_src = CX_135_Occupied_Bottom;
                this.state.sw_7_src = CX_225_Occupied_Bottom;
            }

            if (this.state.routed_2) {
                this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
                this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
            }
            else if (this.state.occupied_track_2) {
                this.state.sw_3_src = CX_135_Occupied_Both;
                this.state.sw_5_src = CX_225_Occupied_Both;
            }
            else {
                this.state.sw_3_src = CX_135_Occupied_Top;
                this.state.sw_5_src = CX_225_Occupied_Top;
            }

            // Signals
            this.state.sig_2w1_src = SIG_W_Stop;
            this.state.sig_2w2_src = SIG_W_Stop;
            this.state.sig_2e_src = SIG_E_Stop;
        }
        else {
            // Switch Images
            this.state.sw_9_src = SW_U_E_R_Lined;

            if (this.state.routed_3) {
                this.state.sw_1_src = CX_135_Lined_Both;
                this.state.sw_7_src = CX_225_Lined_Both;
            }
            else if (this.state.occupied_track_3) {
                this.state.sw_1_src =
CX_135_Occupied_Top_Lined_Bottom;

```

```

        this.state.sw_7_src =
CX_225_Occupied_Top_Lined_Bottom;
    }
    else {
        this.state.sw_1_src = CX_135_Lined_Bottom;
        this.state.sw_7_src = CX_225_Lined_Bottom;
    }

    if (this.state.routed_2) {
        this.state.sw_3_src = CX_135_Lined_Both;
        this.state.sw_5_src = CX_225_Lined_Both;
    }
    else if (this.state.occupied_track_2) {
        this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
        this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
    }
    else {
        this.state.sw_3_src = CX_135_Lined_Top;
        this.state.sw_5_src = CX_225_Lined_Top;
    }

    if (this.state.routes[i] === "W_4_1__|
__1_wc_ridgewood") {
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Clear;
        this.state.sig_2e_src = SIG_E_Stop;
    }
    else {
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Clear;
    }
}

    else if (this.state.routes[i] === "W_2_2__|
__2_wc_ridgewood" || this.state.routes[i] === "E_2_2__|
__2_ridgewood_suscon") {
        // Tail Tracks
        this.state.tail_m_2_e = color_2;
        this.state.tail_2_w = color_2;

        if (this.state.occupied_track_2) {
            if (this.state.routed_1) {
                this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
                this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
            }

```

```

        else if (this.state.occupied_track_1) {
            this.state.sw_3_src = CX_135_Occupied_Both;
            this.state.sw_5_src = CX_225_Occupied_Both;
        }
        else {
            this.state.sw_3_src = CX_135_Occupied_Bottom;
            this.state.sw_5_src = CX_225_Occupied_Bottom;
        }

        // Signals
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
    }
    else {
        if (this.state.routed_1) {
            this.state.sw_3_src = CX_135_Lined_Both;
            this.state.sw_5_src = CX_225_Lined_Both;
        }
        else if (this.state.occupied_track_1) {
            this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
            this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
        }
        else {
            this.state.sw_3_src = CX_135_Lined_Bottom;
            this.state.sw_5_src = CX_225_Lined_Bottom;
        }

        if (this.state.routes[i] === "W_2_2__|
__2_wc_ridgewood") {
            this.state.sig_4w_src = SIG_W_Clear;
            this.state.sig_4e_src = SIG_E_Stop;
        }
        else {
            this.state.sig_4w_src = SIG_W_Stop;
            this.state.sig_4e_src = SIG_E_Clear;
        }
    }
}
else if (this.state.routes[i] === "W_3_3__|
__3_wc_ridgewood" || this.state.routes[i] === "E_3_3__|
__1_ridgewood_bt") {
    // Tail Tracks
    this.state.tail_b_1_e = color_3;
    this.state.tail_3_center = color_3;
    this.state.tail_3_w = color_3;

    if (this.state.occupied_track_3) {
        if (this.state.routes.includes("W_2_1__|

```

```

__1_wc_ridgewood")) {
    if (this.state.routed_2) {
        this.state.sw_1_src =
CX_135_Occupied_Top_Lined_Bottom;
    }
    else {
        this.state.sw_1_src =
CX_135_Occupied_Both;
    }
}
else {
    this.state.sw_1_src = CX_135_Occupied_Top;
}
this.state.sw_7_src = CX_225_Occupied_Top;

// Signals
this.state.sig_6w_src = SIG_W_Stop;
this.state.sig_6e_src = SIG_E_Stop;
}
else {
    if (this.state.routes.includes("W_2_1__|
__1_wc_ridgewood")) {
        this.state.sw_1_src = CX_135_Lined_Both;
    }
    else {
        this.state.sw_1_src = CX_135_Lined_Top;
    }
    this.state.sw_7_src = CX_225_Lined_Top;

    if (this.state.routes[i] === "W_3_3__|
__3_wc_ridgewood") {
        this.state.sig_6w_src = SIG_W_Clear;
        this.state.sig_6e_src = SIG_E_Stop;
    }
    else {
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_6e_src = SIG_E_Clear;
    }
}
}
else if (this.state.routes[i] === "W_1_2__|
__2_wc_ridgewood") {
    // Tail Tracks
    this.state.tail_m_1_e = color_1;
    this.state.tail_1_center = color_1;
    this.state.tail_2_w = color_1;

    if (this.state.occupied_track_1) {
}

```

```

else {
    if (this.state.routed_3) {
        this.state.sw_7_src = CX_225_Lined_Both;
    }
    else if (this.state.occupied_track_3) {
        this.state.sw_7_src =
CX_225_Occupied_Top_Lined_Bottom;
    }
    else {
        this.state.sw_7_src = CX_225_Lined_Bottom;
    }

    this.state.sw_9_src = SW_U_E_Lined;
    this.state.sw_5_src = CX_225_R_Lined;
    this.state.sw_3_src = CX_135_Lined_Bottom;

    // Signals
    this.state.sig_2w1_src = SIG_W_Clear;
    this.state.sig_2w2_src = SIG_W_Stop;
    this.state.sig_4w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_4e_src = SIG_E_Stop;
}
}
else if (this.state.routes[i] === "E_2_1__|
__1_ridgewood_suscon") {
    // Tail Tracks
    this.state.tail_m_1_e = color_2;
    this.state.tail_1_center = color_2;
    this.state.tail_2_w = color_2;

    if (this.state.occupied_track_2) {
        if (this.state.routed_3) {
            this.state.sw_7_src =
CX_225_Lined_Top_Occupied_Bottom;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_7_src = CX_225_Occupied_Both;
        }
        else {
            this.state.sw_7_src = CX_225_Occupied_Bottom;
        }

        this.state.sw_9_src = SW_U_E_Occupied;
        this.state.sw_5_src = CX_225_R_Occupied;
        this.state.sw_3_src = CX_135_Occupied_Bottom;

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;

```

```

        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
    }
    else {
        if (this.state.routed_3) {
            this.state.sw_7_src = CX_225_Lined_Both;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_7_src =
CX_225_Occupied_Top_Lined_Bottom;
        }
        else {
            this.state.sw_7_src = CX_225_Lined_Bottom;
        }

        this.state.sw_9_src = SW_U_E_Lined;
        this.state.sw_5_src = CX_225_R_Lined;
        this.state.sw_3_src = CX_135_Lined_Bottom;

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Clear;
    }
}
else if (this.state.routes[i] === "E_2_4__|
__2_ridgewood_bt") {
    // Tail Tracks
    this.state.tail_b_2_e = color_2;
    this.state.tail_1_center = color_2;
    this.state.tail_2_w = color_2;

    if (this.state.occupied_track_2) {
        if (this.state.routed_3) {
            this.state.sw_7_src =
CX_225_Lined_Top_Occupied_Bottom;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_7_src = CX_225_Occupied_Both;
        }
        else {
            this.state.sw_7_src = CX_225_Occupied_Bottom;
        }

        this.state.sw_9_src = SW_U_E_R_Occupied;
        this.state.sw_5_src = CX_225_R_Occupied;
        this.state.sw_3_src = CX_135_Occupied_Bottom;
    }
}

```

```

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
    }
    else {
        if (this.state.routed_3) {
            this.state.sw_7_src = CX_225_Lined_Both;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_7_src =
CX_225_Occupied_Top_Lined_Bottom;
        }
        else {
            this.state.sw_7_src = CX_225_Lined_Bottom;
        }

        this.state.sw_9_src = SW_U_E_R_Lined;
        this.state.sw_5_src = CX_225_R_Lined;
        this.state.sw_3_src = CX_135_Lined_Bottom;

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Clear;
    }
}
else if (this.state.routes[i] === "W_4_2__|
__2_wc_ridgewood") {
    // Tail Tracks
    this.state.tail_b_2_e = color_1;
    this.state.tail_1_center = color_1;
    this.state.tail_2_w = color_1;

    if (this.state.occupied_track_1) {
        if (this.state.routed_3) {
            this.state.sw_7_src =
CX_225_Lined_Top_Occupied_Bottom;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_7_src = CX_225_Occupied_Both;
        }
        else {
            this.state.sw_7_src = CX_225_Occupied_Bottom;
        }
    }
}

```

```

        this.state.sw_9_src = SW_U_E_R_Occupied;
        this.state.sw_5_src = CX_225_R_Occupied;
        this.state.sw_3_src = CX_135_Occupied_Bottom;

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
    }
    else {
        if (this.state.routed_3) {
            this.state.sw_7_src = CX_225_Lined_Both;
        }
        else if (this.state.occupied_track_3) {
            this.state.sw_7_src =
CX_225_Occupied_Top_Lined_Bottom;
        }
        else {
            this.state.sw_7_src = CX_225_Lined_Bottom;
        }

        this.state.sw_9_src = SW_U_E_R_Lined;
        this.state.sw_5_src = CX_225_R_Lined;
        this.state.sw_3_src = CX_135_Lined_Bottom;

        // Signals
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Clear;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
    }
}
else if (this.state.routes[i] === "W_1_3__|
__3_wc_ridgewood") {
    // Tail Tracks
    this.state.tail_m_1_e = color_1;
    this.state.tail_1_center = color_1;
    this.state.tail_3_w = color_1;

    if (this.state.occupied_track_1) {
        this.state.sw_9_src = SW_U_E_Occupied;
        this.state.sw_7_src = CX_225_Occupied_Bottom;
        this.state.sw_1_src = CX_135_R_Occupied;

        if (this.state.routed_2) {
            this.state.sw_5_src =

```



```

CX_225_Occupied_Top_Lined_Bottom;
        this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
    }
    else if (this.state.occupied_track_2) {
        this.state.sw_5_src = CX_225_Occupied_Both;
        this.state.sw_3_src = CX_135_Occupied_Both;
    }
    else {
        this.state.sw_5_src = CX_225_Occupied_Top;
        this.state.sw_3_src = CX_135_Occupied_Top;
    }

    // Signals
    this.state.sig_2w1_src = SIG_W_Stop;
    this.state.sig_2w2_src = SIG_W_Stop;
    this.state.sig_6w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_6e_src = SIG_E_Stop;
}
else {
    this.state.sw_9_src = SW_U_E_Lined;
    this.state.sw_7_src = CX_225_Lined_Bottom;
    this.state.sw_1_src = CX_135_R_Lined;

    if (this.state.routed_2) {
        this.state.sw_5_src = CX_225_Lined_Both;
        this.state.sw_3_src = CX_135_Lined_Both;
    }
    else if (this.state.occupied_track_2) {
        this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
        this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
    }
    else {
        this.state.sw_5_src = CX_225_Lined_Top;
        this.state.sw_3_src = CX_135_Lined_Top;
    }

    // Signals
    this.state.sig_2w1_src = SIG_W_Clear;
    this.state.sig_2w2_src = SIG_W_Stop;
    this.state.sig_6w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_6e_src = SIG_E_Stop;
}
}
else if (this.state.routes[i] === "E_3_1__|
__1_ridgewood_suscon") {

```

```

// Tail Tracks
this.state.tail_m_1_e = color_3;
this.state.tail_1_center = color_3;
this.state.tail_3_w = color_3;

if (this.state.occupied_track_3) {
    this.state.sw_9_src = SW_U_E_Occupied;
    this.state.sw_7_src = CX_225_Occupied_Bottom;
    this.state.sw_1_src = CX_135_R_Occupied;

    if (this.state.routed_2) {
        this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
        this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
    }
    else if (this.state.occupied_track_2) {
        this.state.sw_5_src = CX_225_Occupied_Both;
        this.state.sw_3_src = CX_135_Occupied_Both;
    }
    else {
        this.state.sw_5_src = CX_225_Occupied_Top;
        this.state.sw_3_src = CX_135_Occupied_Top;
    }

    // Signals
    this.state.sig_2w1_src = SIG_W_Stop;
    this.state.sig_2w2_src = SIG_W_Stop;
    this.state.sig_6w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_6e_src = SIG_E_Stop;
}
else {
    this.state.sw_9_src = SW_U_E_Lined;
    this.state.sw_7_src = CX_225_Lined_Bottom;
    this.state.sw_1_src = CX_135_R_Lined;

    if (this.state.routed_2) {
        this.state.sw_5_src = CX_225_Lined_Both;
        this.state.sw_3_src = CX_135_Lined_Both;
    }
    else if (this.state.occupied_track_2) {
        this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
        this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
    }
    else {
        this.state.sw_5_src = CX_225_Lined_Top;
        this.state.sw_3_src = CX_135_Lined_Top;
    }
}

```

```

    }

    // Signals
    this.state.sig_2w1_src = SIG_W_Stop;
    this.state.sig_2w2_src = SIG_W_Stop;
    this.state.sig_6w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_6e_src = SIG_E_Clear;
  }
}
else if (this.state.routes[i] === "W_3_1__|
__1_wc_ridgewood") {
  // Tail Tracks
  this.state.tail_b_1_e = color_3;
  this.state.tail_1_w = color_3;

  if (this.state.occupied_track_3) {
    this.state.sw_7_src = CX_225_R_Occupied;
    this.state.sw_1_src = CX_135_Occupied_Bottom;

    if (this.state.routed_2) {
      this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
      this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
    }
    else if (this.state.occupied_track_2) {
      this.state.sw_5_src = CX_225_Occupied_Both;
      this.state.sw_3_src = CX_135_Occupied_Both;
    }
    else {
      this.state.sw_5_src = CX_225_Occupied_Top;
      this.state.sw_3_src = CX_135_Occupied_Top;
    }
  }

  // Signals
  this.state.sig_6w_src = SIG_W_Stop;
  this.state.sig_2w1_src = SIG_W_Stop;
  this.state.sig_2w2_src = SIG_W_Stop;
  this.state.sig_2e_src = SIG_E_Stop;
  this.state.sig_6e_src = SIG_E_Stop;
}
else {
  this.state.sw_7_src = CX_225_R_Lined;
  this.state.sw_1_src = CX_135_Lined_Bottom;

  if (this.state.routed_2) {
    this.state.sw_5_src = CX_225_Lined_Both;
    this.state.sw_3_src = CX_135_Lined_Both;
  }
}

```

```

        else if (this.state.occupied_track_2) {
            this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
            this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
        }
        else {
            this.state.sw_5_src = CX_225_Lined_Top;
            this.state.sw_3_src = CX_135_Lined_Top;
        }

        // Signals
        this.state.sig_6w_src = SIG_W_Clear;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}
else if (this.state.routes[i] === "E_1_3__|
__1_ridgewood_bt") {
    // Tail Tracks
    this.state.tail_b_1_e = color_1;
    this.state.tail_1_w = color_1;

    if (this.state.occupied_track_1) {
        this.state.sw_7_src = CX_225_R_Occupied;
        this.state.sw_1_src = CX_135_Occupied_Bottom;

        if (this.state.routed_2) {
            this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
            this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
        }
        else if (this.state.occupied_track_2) {
            this.state.sw_5_src = CX_225_Occupied_Both;
            this.state.sw_3_src = CX_135_Occupied_Both;
        }
        else {
            this.state.sw_5_src = CX_225_Occupied_Top;
            this.state.sw_3_src = CX_135_Occupied_Top;
        }

        // Signals
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}

```

```

    }
    else {
        this.state.sw_7_src = CX_225_R_Lined;
        this.state.sw_1_src = CX_135_Lined_Bottom;

        if (this.state.routed_2) {
            this.state.sw_5_src = CX_225_Lined_Both;
            this.state.sw_3_src = CX_135_Lined_Both;
        }
        else if (this.state.occupied_track_2) {
            this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
            this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
        }
        else {
            this.state.sw_5_src = CX_225_Lined_Top;
            this.state.sw_3_src = CX_135_Lined_Top;
        }

        // Signals
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Clear;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}
else if (this.state.routes[i] === "W_3_2__|
__2_wc_ridgewood") {
    // Tail Tracks
    this.state.tail_b_1_e = color_3;
    this.state.tail_2_w = color_3;

    if (this.state.occupied_track_3) {
        // Switches
        this.state.sw_7_src = CX_225_R_Occupied;
        this.state.sw_5_src = CX_225_R_Occupied;
        this.state.sw_3_src = CX_135_Occupied_Bottom;

        // Signals
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
    else {

```

```

        // Switches
        this.state.sw_7_src = CX_225_R_Lined;
        this.state.sw_5_src = CX_225_R_Lined;
        this.state.sw_3_src = CX_135_Lined_Bottom;

        // Signals
        this.state.sig_6w_src = SIG_W_Clear;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}
else if (this.state.routes[i] === "E_2_3__|
__1_ridgewood_bt") {
    // Tail Tracks
    this.state.tail_b_1_e = color_2;
    this.state.tail_2_w = color_2;

    if (this.state.occupied_track_2) {
        // Switches
        this.state.sw_7_src = CX_225_R_Occupied;
        this.state.sw_5_src = CX_225_R_Occupied;
        this.state.sw_3_src = CX_135_Occupied_Bottom;

        // Signals
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
    else {
        // Switches
        this.state.sw_7_src = CX_225_R_Lined;
        this.state.sw_5_src = CX_225_R_Lined;
        this.state.sw_3_src = CX_135_Lined_Bottom;

        // Signals
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Clear;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}

```

```

    }
    }
    else if (this.state.routes[i] === "W_4_3__|
__3_wc_ridgewood") {
        // Tail Tracks
        this.state.tail_b_2_e = color_1;
        this.state.tail_1_center = color_1;
        this.state.tail_3_w = color_1;

        if (this.state.occupied_track_1) {
            // Switches
            this.state.sw_9_src = SW_U_E_R_Occupied;
            this.state.sw_7_src = CX_225_Occupied_Bottom;
            this.state.sw_1_src = CX_135_R_Occupied;

            if (this.state.routed_2) {
                this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
                this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
            }
            else if (this.state.occupied_track_2) {
                this.state.sw_5_src = CX_225_Occupied_Both;
                this.state.sw_3_src = CX_135_Occupied_Both;
            }
            else {
                this.state.sw_5_src = CX_225_Occupied_Top;
                this.state.sw_3_src = CX_135_Occupied_Top;
            }

            // Signals
            this.state.sig_2w2_src = SIG_W_Stop;
            this.state.sig_2w1_src = SIG_W_Stop;
            this.state.sig_6w_src = SIG_W_Stop;
            this.state.sig_2e_src = SIG_E_Stop;
            this.state.sig_6e_src = SIG_E_Stop;
        }
        else {
            // Switches
            this.state.sw_9_src = SW_U_E_R_Lined;
            this.state.sw_7_src = CX_225_Lined_Bottom;
            this.state.sw_1_src = CX_135_R_Lined;

            if (this.state.routed_2) {
                this.state.sw_5_src = CX_225_Lined_Both;
                this.state.sw_3_src = CX_135_Lined_Both;
            }
            else if (this.state.occupied_track_2) {
                this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;

```

```

        this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
    }
    else {
        this.state.sw_5_src = CX_225_Lined_Top;
        this.state.sw_3_src = CX_135_Lined_Top;
    }

    // Signals
    this.state.sig_2w2_src = SIG_W_Clear;
    this.state.sig_2w1_src = SIG_W_Stop;
    this.state.sig_6w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_6e_src = SIG_E_Stop;
}
}
else if (this.state.routes[i] === "E_3_4__|
__2_ridgewood_bt") {
    // Tail Tracks
    this.state.tail_b_2_e = color_3;
    this.state.tail_1_center = color_3;
    this.state.tail_3_w = color_3;

    if (this.state.occupied_track_3) {
        // Switches
        this.state.sw_9_src = SW_U_E_R_Occupied;
        this.state.sw_7_src = CX_225_Occupied_Bottom;
        this.state.sw_1_src = CX_135_R_Occupied;

        if (this.state.routed_2) {
            this.state.sw_5_src =
CX_225_Occupied_Top_Lined_Bottom;
            this.state.sw_3_src =
CX_135_Occupied_Top_Lined_Bottom;
        }
        else if (this.state.occupied_track_2) {
            this.state.sw_5_src = CX_225_Occupied_Both;
            this.state.sw_3_src = CX_135_Occupied_Both;
        }
        else {
            this.state.sw_5_src = CX_225_Occupied_Top;
            this.state.sw_3_src = CX_135_Occupied_Top;
        }

        // Signals
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}

```



```

    }
    else {
        // Switches
        this.state.sw_9_src = SW_U_E_R_Lined;
        this.state.sw_7_src = CX_225_Lined_Bottom;
        this.state.sw_1_src = CX_135_R_Lined;

        if (this.state.routed_2) {
            this.state.sw_5_src = CX_225_Lined_Both;
            this.state.sw_3_src = CX_135_Lined_Both;
        }
        else if (this.state.occupied_track_2) {
            this.state.sw_5_src =
CX_225_Lined_Top_Occupied_Bottom;
            this.state.sw_3_src =
CX_135_Lined_Top_Occupied_Bottom;
        }
        else {
            this.state.sw_5_src = CX_225_Lined_Top;
            this.state.sw_3_src = CX_135_Lined_Top;
        }

        // Signals
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Clear;
    }
}
else if (this.state.routes[i] === "W_2_3__|
__3_wc_ridgewood") {
    // Tail Tracks
    this.state.tail_m_2_e = color_2;
    this.state.tail_3_w = color_2;

    if (this.state.occupied_track_2) {
        this.state.sw_5_src = CX_225_Occupied_Bottom;
        this.state.sw_3_src = CX_135_R_Occupied;
        this.state.sw_1_src = CX_135_R_Occupied;

        // Signals
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
}

```

```

else {
    this.state.sw_5_src = CX_225_Lined_Bottom;
    this.state.sw_3_src = CX_135_R_Lined;
    this.state.sw_1_src = CX_135_R_Lined;

    // Signals
    this.state.sig_4w_src = SIG_W_Clear;
    this.state.sig_2w1_src = SIG_W_Stop;
    this.state.sig_2w2_src = SIG_W_Stop;
    this.state.sig_6w_src = SIG_W_Stop;
    this.state.sig_2e_src = SIG_E_Stop;
    this.state.sig_4e_src = SIG_E_Stop;
    this.state.sig_6e_src = SIG_E_Stop;
}
}
else if (this.state.routes[i] === "E_3_2__|
__2_ridgewood_suscon") {
    // Tail Tracks
    this.state.tail_m_2_e = color_3;
    this.state.tail_3_w = color_3;

    if (this.state.occupied_track_2) {
        this.state.sw_5_src = CX_225_Occupied_Bottom;
        this.state.sw_3_src = CX_135_R_Occupied;
        this.state.sw_1_src = CX_135_R_Occupied;

        // Signals
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Stop;
    }
    else {
        this.state.sw_5_src = CX_225_Lined_Bottom;
        this.state.sw_3_src = CX_135_R_Lined;
        this.state.sw_1_src = CX_135_R_Lined;

        // Signals
        this.state.sig_4w_src = SIG_W_Stop;
        this.state.sig_2w1_src = SIG_W_Stop;
        this.state.sig_2w2_src = SIG_W_Stop;
        this.state.sig_6w_src = SIG_W_Stop;
        this.state.sig_2e_src = SIG_E_Stop;
        this.state.sig_4e_src = SIG_E_Stop;
        this.state.sig_6e_src = SIG_E_Clear;
    }
}
}

```

```

        else if (this.state.routes[i] === "W_2_1__|
__1_wc_ridgewood") {
            // Tail Tracks
            this.state.tail_m_2_e = color_2;
            this.state.tail_1_w = color_2;

            if (this.state.occupied_track_2) {
                this.state.sw_5_src = CX_225_Occupied_Bottom;
                this.state.sw_3_src = CX_135_R_Occupied;

                if (this.state.routed_3) {
                    this.state.sw_1_src =
CX_135_Lined_Top_Occupied_Bottom;
                }
                else if (this.state.occupied_track_3) {
                    this.state.sw_1_src = CX_135_Occupied_Both;
                }
                else {
                    this.state.sw_1_src = CX_135_Occupied_Bottom;
                }

                // Signals
                this.state.sig_4w_src = SIG_W_Stop;
                this.state.sig_2w1_src = SIG_W_Stop;
                this.state.sig_2w2_src = SIG_W_Stop;
                this.state.sig_4e_src = SIG_E_Stop;
                this.state.sig_2e_src = SIG_E_Stop;
            }
            else {
                this.state.sw_5_src = CX_225_Lined_Bottom;
                this.state.sw_3_src = CX_135_R_Lined;

                if (this.state.routed_3) {
                    this.state.sw_1_src = CX_135_Lined_Both;
                }
                else if (this.state.occupied_track_3) {
                    this.state.sw_1_src =
CX_135_Occupied_Top_Lined_Bottom;
                }
                else {
                    this.state.sw_1_src = CX_135_Lined_Bottom;
                }

                // Signals
                this.state.sig_4w_src = SIG_W_Clear;
                this.state.sig_2w1_src = SIG_W_Stop;
                this.state.sig_2w2_src = SIG_W_Stop;
                this.state.sig_4e_src = SIG_E_Stop;
                this.state.sig_2e_src = SIG_E_Stop;
            }
        }

```

```

    }
    else if (this.state.routes[i] === "E_1_2__|
__2_ridgewood_suscon") {
        // Tail Tracks
        this.state.tail_m_2_e = color_1;
        this.state.tail_1_w = color_1;

        if (this.state.occupied_track_1) {
            this.state.sw_5_src = CX_225_Occupied_Bottom;
            this.state.sw_3_src = CX_135_R_Occupied;

            if (this.state.routed_3) {
                this.state.sw_1_src =
CX_135_Lined_Top_Occupied_Bottom;
            }
            else if (this.state.occupied_track_3) {
                this.state.sw_1_src = CX_135_Occupied_Both;
            }
            else {
                this.state.sw_1_src = CX_135_Occupied_Bottom;
            }

            // Signals
            this.state.sig_4w_src = SIG_W_Stop;
            this.state.sig_2w1_src = SIG_W_Stop;
            this.state.sig_2w2_src = SIG_W_Stop;
            this.state.sig_4e_src = SIG_E_Stop;
            this.state.sig_2e_src = SIG_E_Stop;
        }
        else {
            this.state.sw_5_src = CX_225_Lined_Bottom;
            this.state.sw_3_src = CX_135_R_Lined;

            if (this.state.routed_3) {
                this.state.sw_1_src = CX_135_Lined_Both;
            }
            else if (this.state.occupied_track_3) {
                this.state.sw_1_src =
CX_135_Occupied_Top_Lined_Bottom;
            }
            else {
                this.state.sw_1_src = CX_135_Lined_Bottom;
            }

            // Signals
            this.state.sig_4w_src = SIG_W_Stop;
            this.state.sig_2w1_src = SIG_W_Stop;
            this.state.sig_2w2_src = SIG_W_Stop;
            this.state.sig_4e_src = SIG_E_Stop;
            this.state.sig_2e_src = SIG_E_Clear;

```

```

        }
    }
}
// ---- END set_route_drawings() ----

/**
 * set_switch_img()
 * @summary Changes image sources for the switches, depending on
switch status
 *
 * This function uses the data passed in through status from the
CTC classes and
 * shows if the switches are reversed or not on the screen, by
changing the image
 * source files, to the correct .png file respectively
 */
set_switch_img = () => {
    // Set SW #1
    // SW #1 Reversed
    if (this.state.sw_1) {
        this.state.sw_1_src = CX_135_R;
    }
    // SW #1 Normal
    else {
        this.state.sw_1_src = CX_135;
    }

    // Set SW #1
    // SW #1 Reversed
    if (this.state.sw_3) {
        this.state.sw_3_src = CX_135_R;
    }
    // SW #1 Normal
    else {
        this.state.sw_3_src = CX_135;
    }

    // Set SW #3
    // SW #3 Reversed
    if (this.state.sw_5) {
        this.state.sw_5_src = CX_225_R;
    }
    // SW #3 Normal
    else {
        this.state.sw_5_src = CX_225;
    }

    // Set SW #5
    // SW #5 Reversed

```

```

        if (this.state.sw_7) {
            this.state.sw_7_src = CX_225_R;
        }
        // SW #5 Normal
        else {
            this.state.sw_7_src = CX_225;
        }

        // Set SW #7
        // SW #7 Reversed
        if (this.state.sw_9) {
            this.state.sw_9_src = SW_U_E_R;
        }
        // SW #7 Normal
        else {
            this.state.sw_9_src = SW_U_E;
        }
    }
    // ---- END set_switch_image() ----

    /**
     * @summary Function to reset the signal images and track colors
     *
     * This function is need, because if the player was to remove a
route,
     * or when the train clears the interlocking nothing will clear
the route
     * the is displaying on the screen, even if it's gone in the
backend
    */
    reset_drawings() {
        this.state.tail_1_center = Empty;
        this.state.tail_3_center = Empty;
        this.state.tail_1_w = Empty;
        this.state.tail_2_w = Empty;
        this.state.tail_3_w = Empty;
        this.state.tail_m_1_e = Empty;
        this.state.tail_m_2_e = Empty;
        this.state.tail_b_2_e = Empty;
        this.state.tail_b_1_e = Empty;

        this.state.sig_6w_src = SIG_W;
        this.state.sig_2w1_src = SIG_W;
        this.state.sig_2w2_src = SIG_W;
        this.state.sig_4w_src = SIG_W;
        this.state.sig_6e_src = SIG_E;
        this.state.sig_2e_src = SIG_E;
        this.state.sig_4e_src = SIG_E;
    }
    //---- END reset_drawings() ----

```

```
}
```

```
// Export the interlocking to be drawn on the screen  
export default RidgewoodJunction;
```