

KC-135 Stratotanker: Quick Response Handbook iPad Application

Design Specifications

10.14.2019





Document Overview

Revision History

05.07.2019	Initial version
05.15.2019	A large variety of updates, would recommend reviewing entire document: updated “Incomplete Checklist” to “End of Checklist” - rework of button sizing & padding - removed “Search from global nav and replaced with “Operational Limitations” - left aligned text (except for quesitons) to account for bulleted format - designed new pattern for long-labeled binary buttons
06.04.2019	Added disabled state for main navigation links - updated “Op Limits” and “Status” icons in main nav - changed “Skip” to “Defer” and blue to purple - added several deferred item patterns including a state for the Title Bar as well as some checklist messaging - addition of slides for several button varieties
06.11.2019	Reformatted Design Spec Document - unified button labels and tile text to global styles - updated and streamlined question tile layouts and button designs to account for worst case, real world scenarios - added design patterns for the top navigation screens as well as section headers
06.24.2019	Addition of Reset Checklist (including Confirm and Cancel) buttons - finished the “Building Blocks” section of the document
06.25.2019	Additions of “counters” for the Status and Op Limits navigation items - added a slide for the Conditions and Objectives tile - updated the status indicator for the “Active” state - began adding pages to to the “Page Layouts” section of the document
07.02.2019	Additions of “counters” for the Status and Op Limits navigation items - added a slide for the Conditions and Objectives tile - updated the status indicator for the “Active” and “Overriden” states - updated specs for override, skip, and restore functionality - addition of Appendix to document - conversion to universal toggle button rather than set widths based on number of answers - updated line height for “Header Text” from 26pt to 30pt
07.18.2019	Updated buttons and included Settings page buttons - Addition of Search Bar, Status Checklist Tiles, Index Category Tiles, and Index Checklist Tiles - added additional state to Launch Figure Button
07.26.2019	Began populating the Appendix - tweaks to several of the page layouts to maximize screen real estate
10.14.2019	Enlarged all font sizes and any corresponding elements accordingly, added a pattern for a “Previous” button in the main nav, slight update to fifth color tile (#aaaaaa) replaces (#bcbbc)

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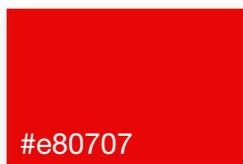
- Index Down Tile30
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Global Styling

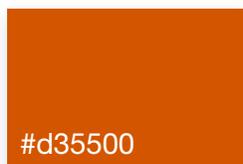
Color Palette

Universal Colors



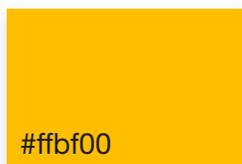
#e80707

Main Usage:
Warning messages



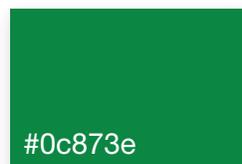
#d35500

Main Usage:
Operational
Limitation
messages



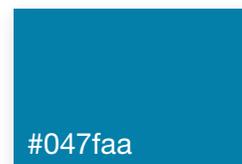
#ffbf00

Main Usage:
Caution messages



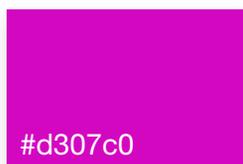
#0c873e

Main Usage:
Complete state *or*
active buttons



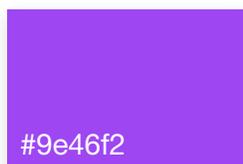
#047faa

Main Usage:
In Progress state *or*
informational
messages



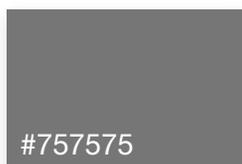
#d307c0

Main Usage:
Active state for tiles
to direct user action



#9e46f2

Main Usage:
Deferred items,
sections and
messages



#757575

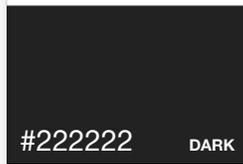
Main Usage:
Neutral state *or*
inactive items

Light vs Dark Theme Colors



#ffffff

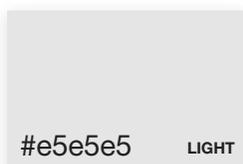
LIGHT



#222222

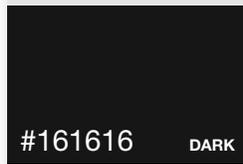
DARK

Main Usage:
Main bg color, top
nav item selected
bg color



#e5e5e5

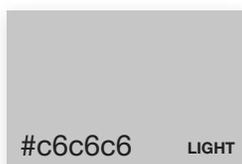
LIGHT



#161616

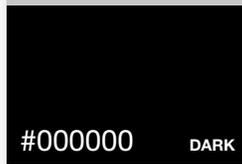
DARK

Main Usage:
Tile bg color, button
bg color



#c6c6c6

LIGHT



#000000

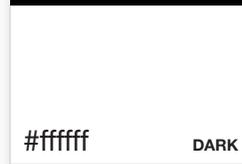
DARK

Main Usage:
Top nav bg color,
status icon bg color



#000000

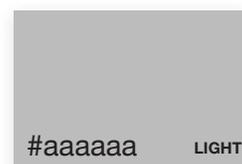
LIGHT



#ffffff

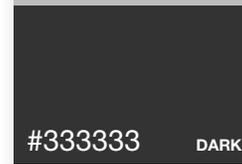
DARK

Main Usage:
Text and button
labels



#aaaaaa

LIGHT



#333333

DARK

Main Usage:
Elements “below”
the main bg (ie-
notificaitons)

Button Label

• - - - - Font: Arial Bold
Size: 27pt
Line Height: 33pt
Alignment: Center

Tile Text

Font: Arial - - - - -
Size: 27pt
Line Height: 33pt
Alignment: Left
**Center align for questions*

Header Text

• - - - - Font: Arial
Size: 30pt
Line Height: 36pt
Alignment: Center

Status Menu Text

Font: Arial - - - - -
Size: 27pt
Line Height: 30pt
Alignment: Center

Notifications Text

• - - - - Font: Arial
Size: 26pt
Line Height: 32pt
Alignment: Left

 *These style are completely universal and their shorthand name will be referenced throughout this document - any other unique typographic styles will be denoted in the individual design specs for the various building blocks and page layouts*

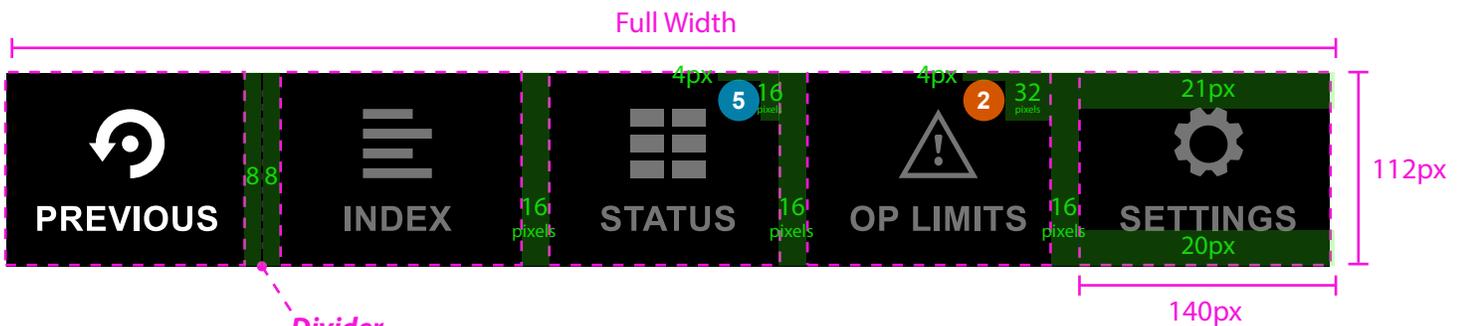
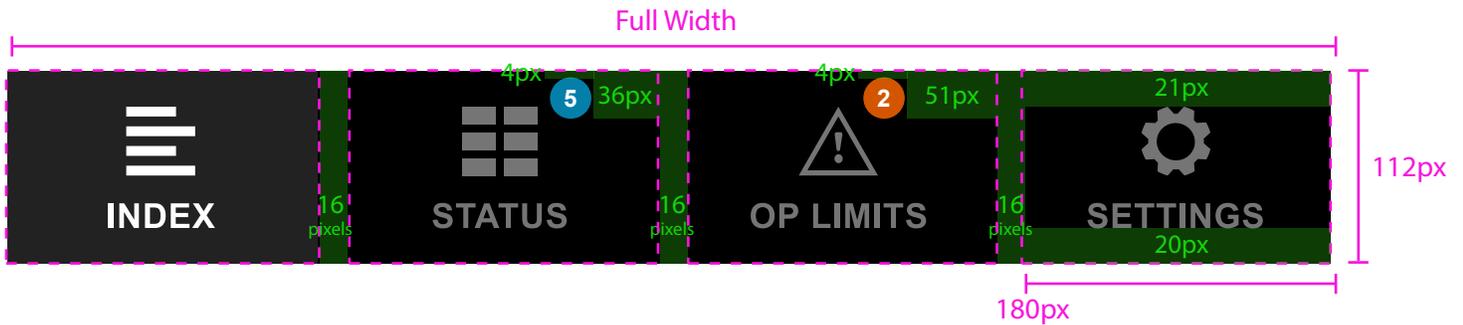


Building Blocks

Navigation

Behavior Notes:

- The navigation is persistent and should always be available to the user
- The "Status" link is inactive until at least one checklist has been started
- The "Op Limits" link is inactive unless there are Operational Limitations currently in place
- The "Previous" button is only available [it animates in from the left] when a user navigates to a new checklist from the Index or a child checklist from a parent

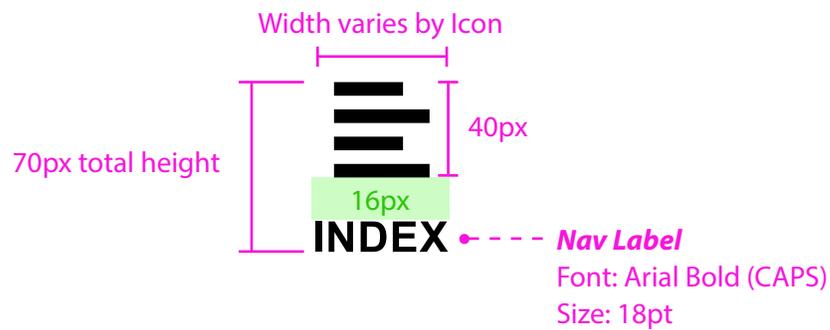


Divider
Width: 1px
Color (Dark): #333333
Color (Light): #aaaaaa

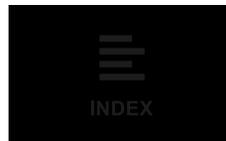
Navigation Icons

Behavior Notes:

- The Index and Settings icons are never in a disabled state
- An icon in a disabled state cannot be interacted with
- Only one navigation item can be selected at a time



Nav Item States



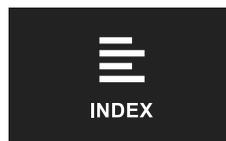
Disabled

BG Color (Dark): #000000
BG Color (Light): #c6c6c6
Icon Color (Both): #757575
Icon Opacity: 25%



Active

BG Color (Dark): #000000
BG Color (Light): #c6c6c6
Icon Color (Both): #757575
Icon Opacity: 100%



Selected

BG Color (Dark): #222222
Icon Color (Dark): #ffffff
BG Color (Light): #ffffff
Icon Color (Light): #000000

Title Bar

Behavior Notes:

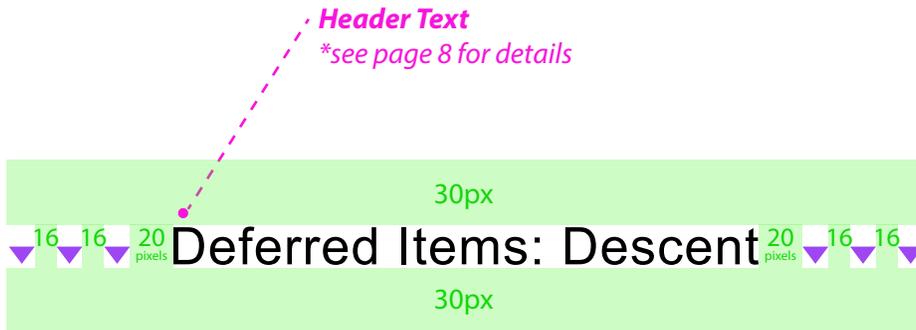
- This bar is persistent and changes color based on the state of the checklist
- This bar is hidden when a main navigation item is open



Section Header

Behavior Notes:

The section header appears in two scenarios: when there is a deferred item that stays in its contextual checklist **OR** when there is a non-normal checklist that has the various phase-of-flights incorporated into it (take the user all the way through a modified landing). Its three states outlined below: inactive, active, and complete.



- ▼ ▼ ▼ Deferred Items: Descent ▼ ▼ ▼ **Inactive**
Text (Both): #757575
Arrows: #757575
- ▼ ▼ ▼ Deferred Items: Descent ▼ ▼ ▼ **Active**
Text (Dark): #ffffff
Text (Light): #000000
Arrows: #9e46f2
- ▼ ▼ ▼ Deferred Items: Descent ▼ ▼ ▼ **Complete**
Text (Both): #0c873e
Arrows: #0c873e

Override/Restore + Skip Step

Behavior Notes:

- These appear if a user “slides” a row to the left (skip) or right (override/restore)
- Once user hits 284 pixels in either “slide” direction, these indicators move from their inactive state to their active state
- User cannot override or skip **ANY** question



Standard Tile

Behavior Notes:

These tiles can contain a variety of content including a simple command, a command and an associated action, or a question the user needs to answer. For all tiles there are some universal design patterns outlined below - for a specific layout of a unique tile design (ie-simple command vs question with 4 choices) please refer to the Page Layouts section of this document.

 When the tile is active, it gets a 4px magenta (#d307c0) interior border to help direct the user's attention to it.



Tile Text

*see page 8 for details

Inactive Color (Both): #757575

Active Color (Dark): #ffffff

Active Color (Light): #000000

Complete Color (Both): #0c873e

Tile BG

BG Color (Dark): #161616

BG Color (Light): #e5e5e5

Status Panel

BG Color Inactive (Dark): #000000

BG Color Inactive (Light): #c6c6c6

Tile States

*centered within the status panel

28x28 pixels  Complete

28x28 pixels  Skipped

28x28 pixels  Inactive

28x28 pixels  Active (Light)

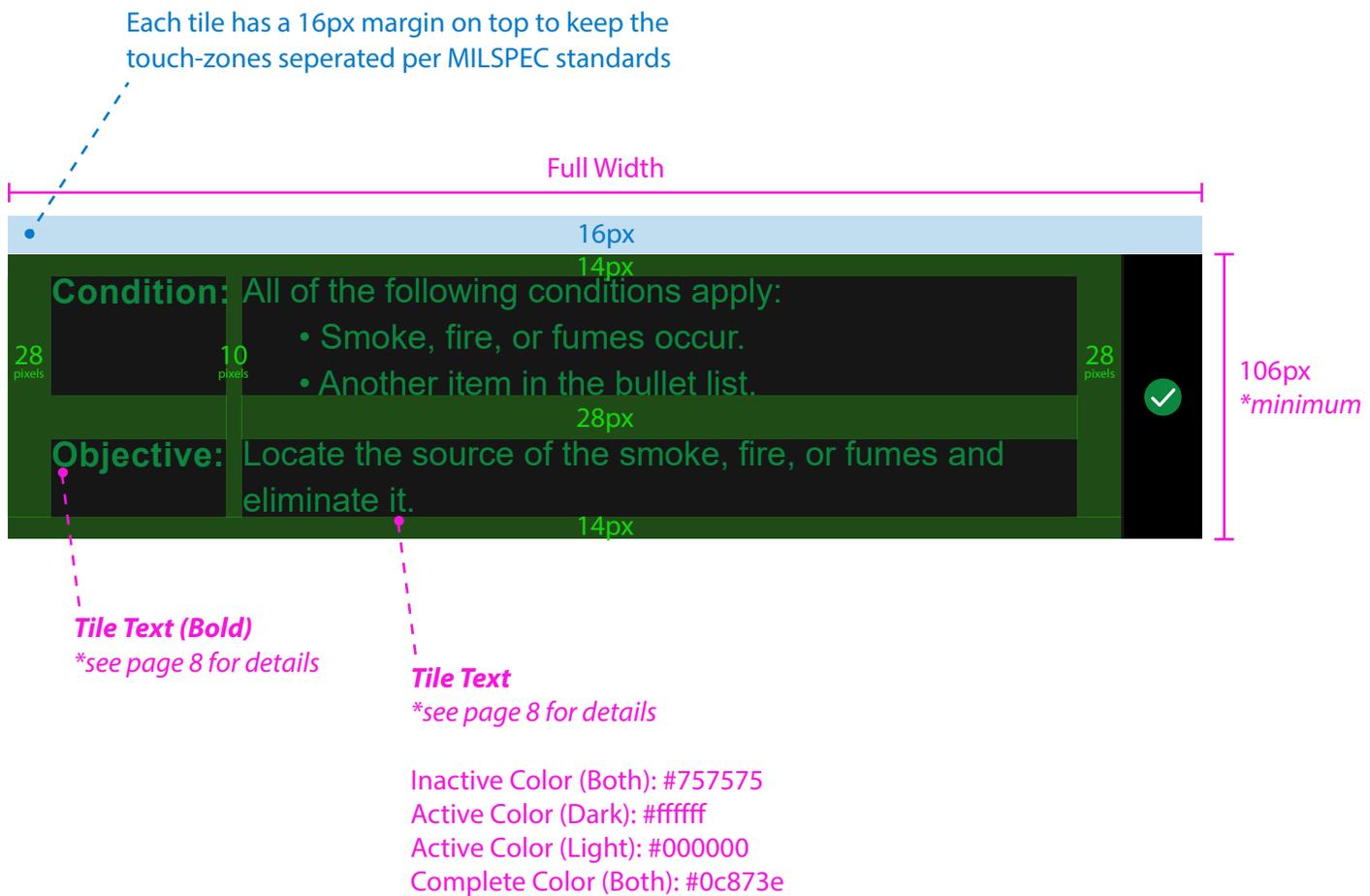
28x28 pixels  Active (Dark)

28x28 pixels  Overridden

Conditions + Objectives Tile

Behavior Notes:

This tile is always the first step on the page and can contain a Condition, and Objective, or both. Once the user has clicked to acknowledge this step the Title bar turns blue and the checklist is officially "In Progress."



Alert Tile

Behavior Notes:

The Alert Tile is almost identical to the standard tile with the addition of a 70px wide alert panel on the left hand side that indicates to the user which type of alert it is (warning, caution, operational limitation, or note).

 When the tile is active, it gets a 4px magenta (#d307c0) interior border to help direct the user's attention to it.



Alert Types

*icon centered within the alert panel



Warning

BG Color: #e80707
Icon Size: 35x28 pixels



Caution

BG Color: #ffbf00
Icon Size: 35x28 pixels



Operational Limitation

BG Color: #d35500
Icon Size: 35x28 pixels



Note

BG Color: #047faa
Icon Size: 28x28 pixels

Tile Text

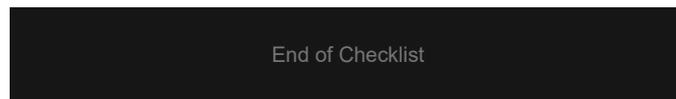
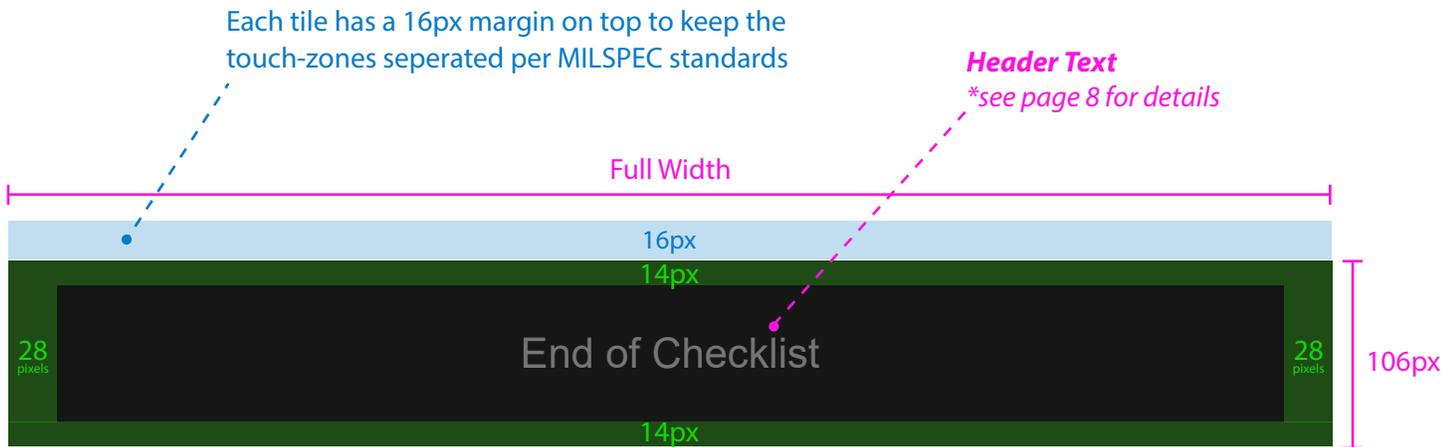
*see page 8 for details

Inactive Color (Both): #757575
Active Color (Dark): #ffffff
Active Color (Light): #000000
Complete Color (Both): #0c873e

Status Tile

Behavior Notes:

- The final tile on **EVERY** checklist (including those with deferred sections)
- Stays in an inactive state to serve as a visual marker for the end of the checklist until the very last tile has been completed
- Assuming the user has completed or overridden all previous steps the Status Tile transitions to a green version to indicate the checklist has been completed
- If the user manually skips any steps the Status Tile transitions to blue with related messaging, once these skips are resolved it automatically goes to the completed state



Inactive

BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Both): #757575



Complete

BG Color (Both): #0c873e
Text Color (Dark): #ffffff
Text Color (Light): #000000



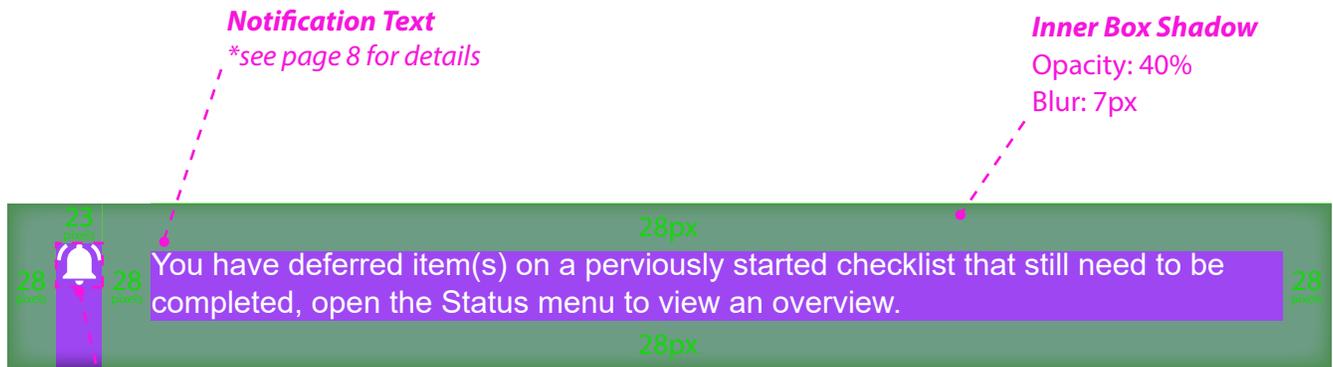
Skipped Item

BG Color (Both): #047faa
Text Color (Dark): #ffffff
Text Color (Light): #000000

Notification

Behavior Notes:

- Sits "behind" main content, so as the main content scrolls up it actually "covers up" the notification.
- Once scrolling has begun the notification quickly fades back to an inactive state as detailed below (should be 100% "greyed out" by the time it's 100% obscured)
- The inverse happens if the user scrolls up for some reason, the color fades back in as the notification is revealed



Notification Text
*see page 8 for details

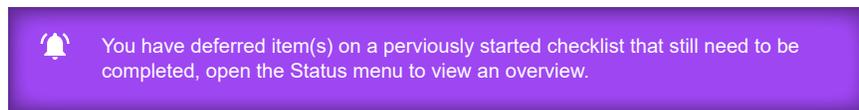
Inner Box Shadow
Opacity: 40%
Blur: 7px

Notification Icon

Size: 26 x 24 pixels

Color (Dark): #ffffff

Color (Light): #000000

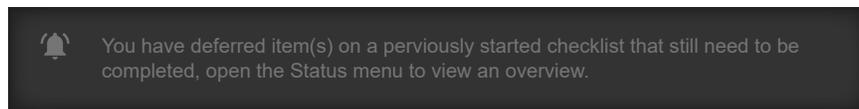


Active

BG Color (Both): #9e46f2

Text Color (Dark): #ffffff

Text Color (Light): #000000



Inactive

BG Color (Dark): #333333

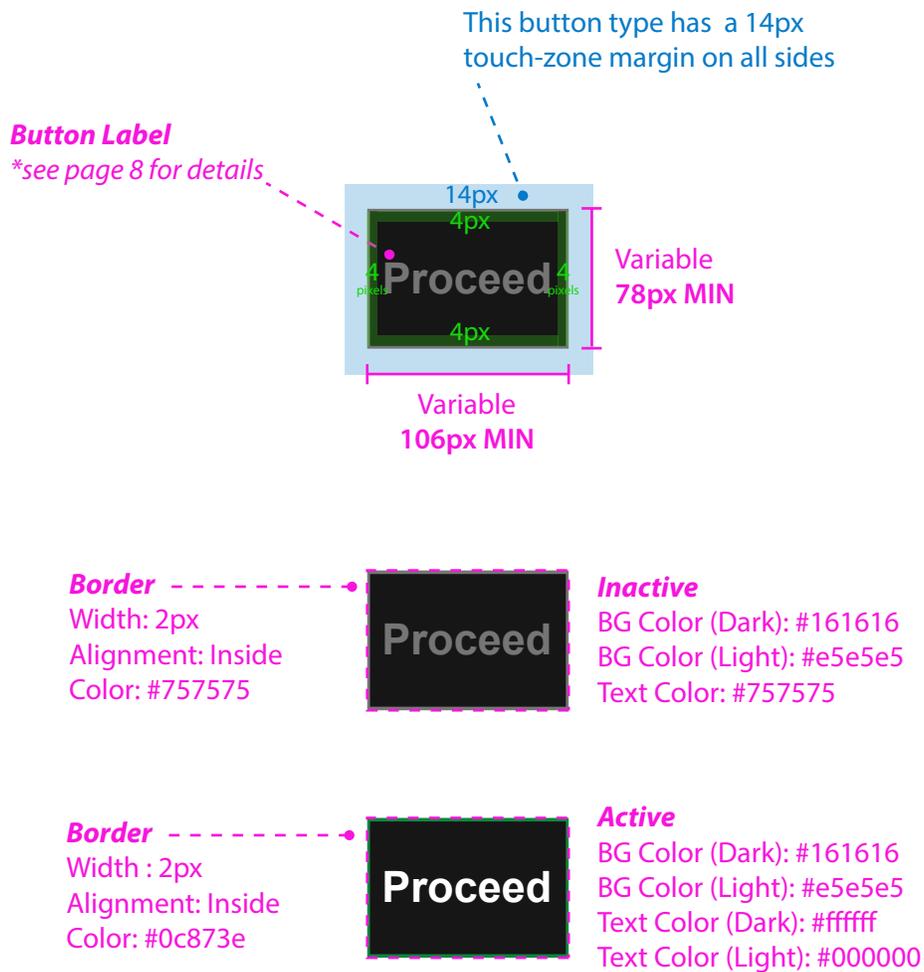
BG Color (Light): #bcbcbc

Text Color (Both): #757575

Standard Button

Behavior Notes:

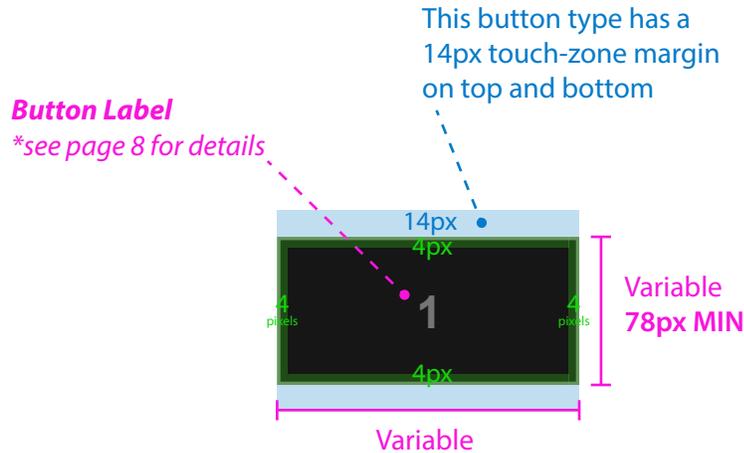
- Only has two states; inactive and active
- Once active, can be clicked an infinite number of times
- Are generally used in-line with a command and contains an action as a label
- All Standard Buttons have a 14px touch-zone margin to meet MILSPEC standards



Toggle Button

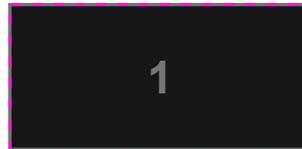
Behavior Notes:

- Each button has three states; inactive, toggled off, and toggled on
- Once active, these buttons default to toggled off and can then be toggled between the on and off position repeatedly
- These buttons contain a 14px touch-zone margin on both the top and bottom to meet MILSPEC standards



 The width of these buttons is a percentage of the available 718px screen space and dependent on how many answers there are as well as the length of the content on the buttons themselves

Border
Width: 2px
Alignment: Inside
Color: #757575



Inactive
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color: #757575

Border
Width : 2px
Alignment: Inside
Color: #0c873e



Active: Toggled Off
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Dark): #ffffff
Text Color (Light): #000000

Border
*no border

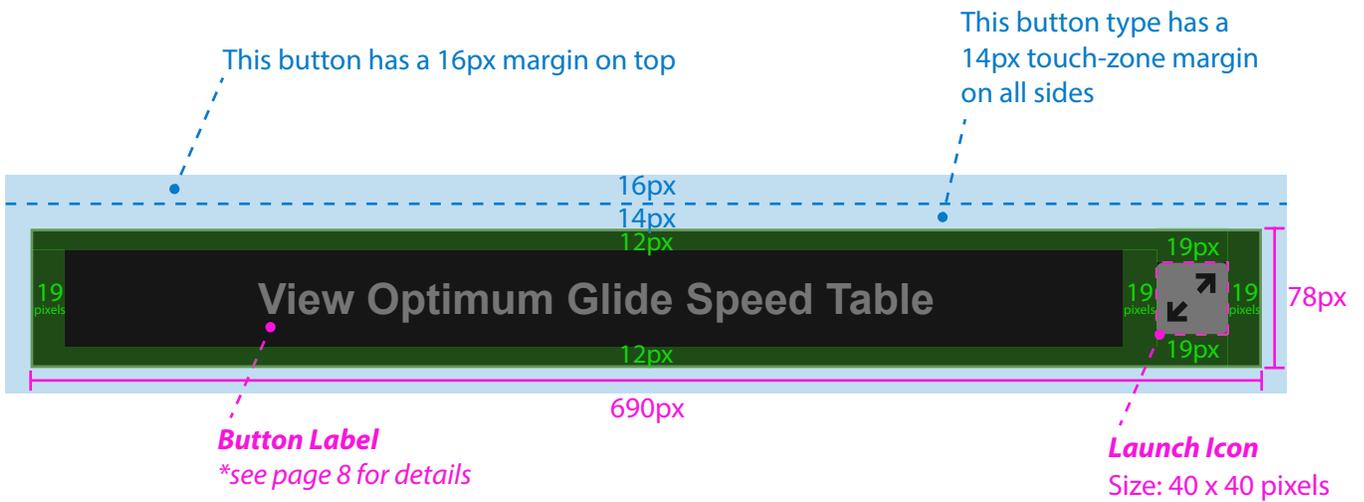


Active: Toggled On
BG Color (Both): #0c873e
Text Color (Dark): #ffffff
Text Color (Light): #000000

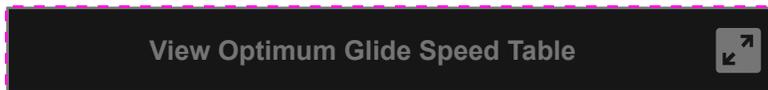
Launch Figure Button

Behavior Notes:

The launch figure button operates similarly to a standard button (it can be clicked infinite times once active) - but spans the entire width of the tile (minus the status panel) and contains an icon to let the user know that clicking it will launch a table or chart within a PDF viewer. Additionally, it has a slight variance to its active state; when the button first becomes active the Launch Figure Icon is white/black and once it has been clicked on it turns green indefinitely (unless the step is fully undone). This button can be added to the bottom of any text based tile.

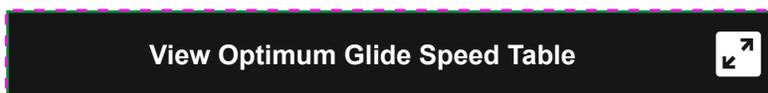


Border
Width: 2px
Alignment: Inside
Color: #757575



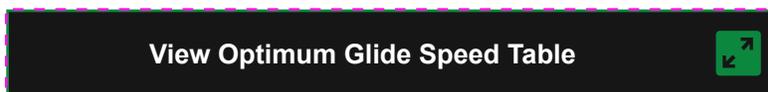
Inactive
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color: #757575
Icon Color: #757575

Border
Width : 2px
Alignment: Inside
Color: #0c873e



Active (never clicked)
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Dark): #ffffff
Text Color (Light): #000000
Icon Color (Dark): #ffffff
Icon Color (Light): #000000

Border
Width : 2px
Alignment: Inside
Color: #0c873e



Active (previously clicked)
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Dark): #ffffff
Text Color (Light): #000000
Icon Color: #0c873e

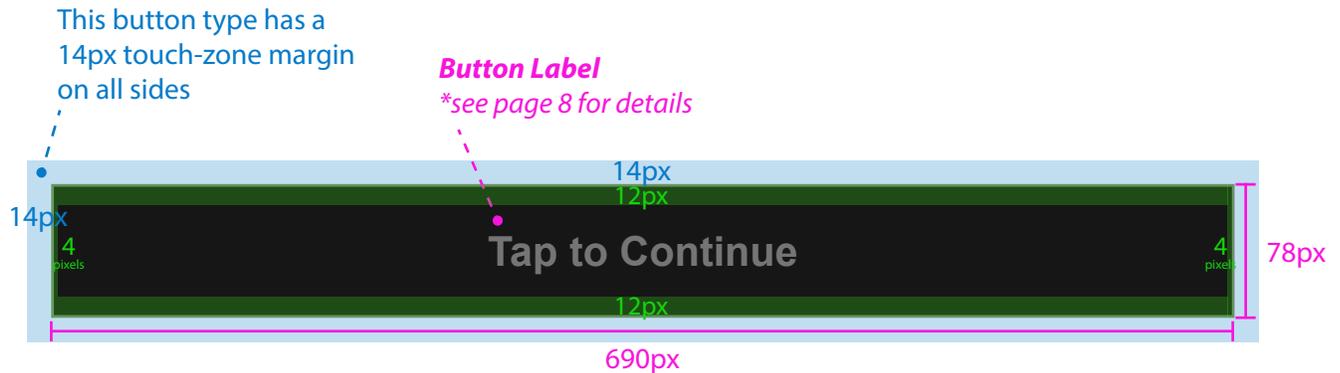
Tap to Continue Button

Behavior Notes:

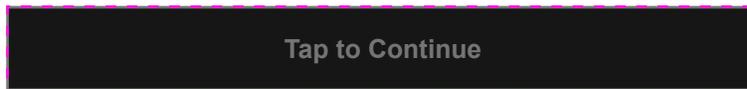
The tap to continue button spans the entire width of the tile and only appears on questions where the user can select multiple answers. It has three states; inactive, active, complete as outlined below:

- Button is **INACTIVE** until at least one answer has been selected
- Button becomes **ACTIVE** once at least one answer has been selected, it returns to an active state (from the completed state) if the user makes an additional selection later in the process
- Button is **COMPLETE** once it has been clicked and the user proceeds to the next step

**If the user changes or adds an answer after they have already continued, the button returns to an active state and must be clicked again for the user to continue*

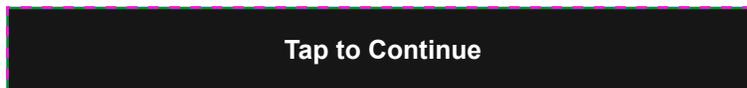


Border -----
Width: 2px
Alignment: Inside
Color: #757575



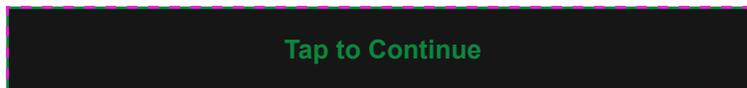
Inactive
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color: #757575

Border -----
Width: 2px
Alignment: Inside
Color: #0c873e



Active
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Dark): #ffffff
Text Color (Light): #000000

Border -----
Width: 2px
Alignment: Inside
Color: #0c873e

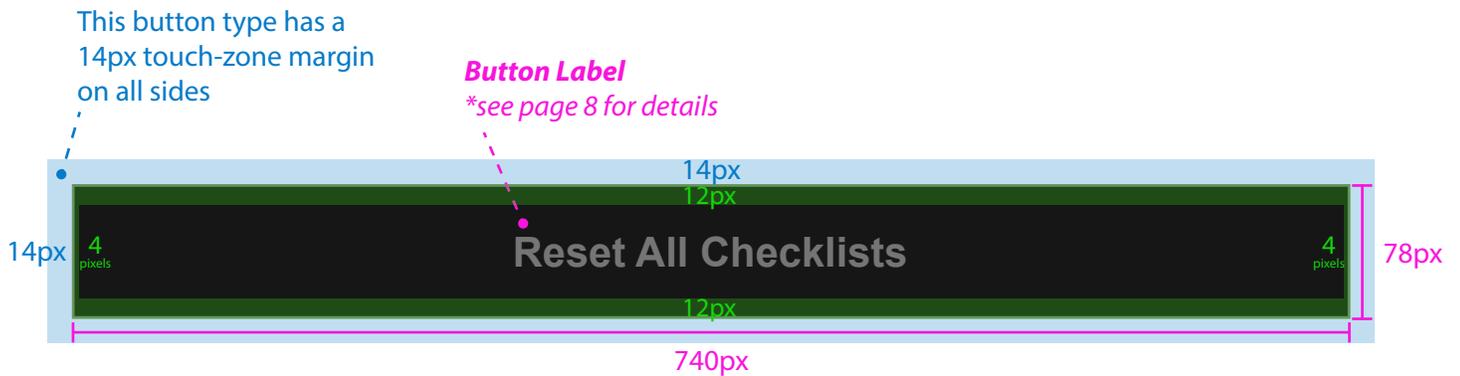


Complete
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color: #0c873e

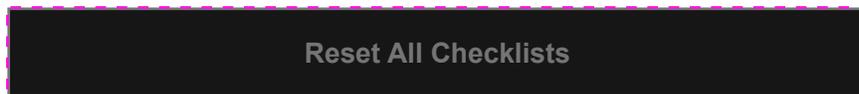
Reset Button Wide

Behavior Notes:

This button appears on the Settings page to allow the user to reset all checklists. It is only active if there are checklists open that have already been started or completed and therefore are eligible to be reset. Clicking the button triggers the confirmation modal and once the user has confirmed, all in-progress and completed checklists are reset (and closed), the modal automatically closes, and this button transitions to the complete state. It remains in the complete state until the user leaves the Settings page (upon re-entry it will reset to either the inactive or active state depending on if the user has started any new checklists).

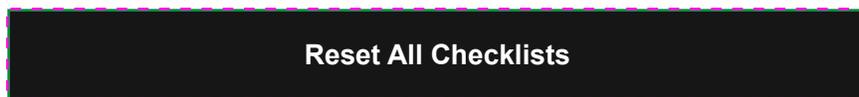


Border
Width: 2px
Alignment: Inside
Color: #757575



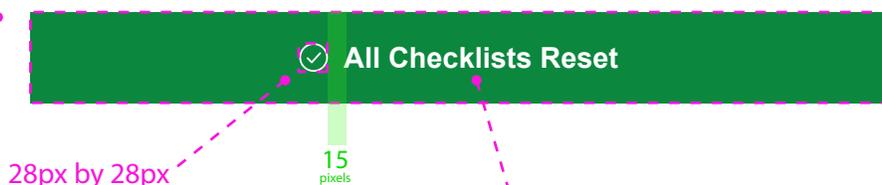
Inactive
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color: #757575

Border
Width: 2px
Alignment: Inside
Color: #0c873e



Active
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Dark): #ffffff
Text Color (Light): #000000

Border
*no border



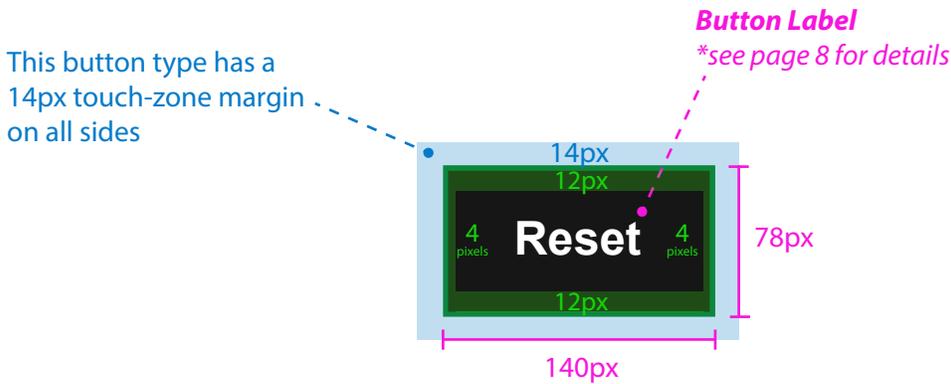
Complete
BG Color (Both): #0c873e
Text Color (Dark): #ffffff
Text Color (Light): #000000
Icon Color (Dark): #ffffff
Icon Color (Light): #000000

Phrasing changes

Reset Button Narrow

Behavior Notes:

This button appears on the Settings page next to any checklist that is listed individually, allowing the user to reset an individual checklist as an alternative to resting them all at the same time. There is no inactive state for this button, other than that it is exactly the same as the wider version with the exception of its dimensions and the text on the button.

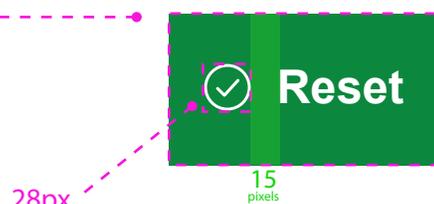


Border
Width : 2px
Alignment: Inside
Color: #0c873e



Active
BG Color (Dark): #161616
BG Color (Light): #e5e5e5
Text Color (Dark): #ffffff
Text Color (Light): #000000

Border
*no border



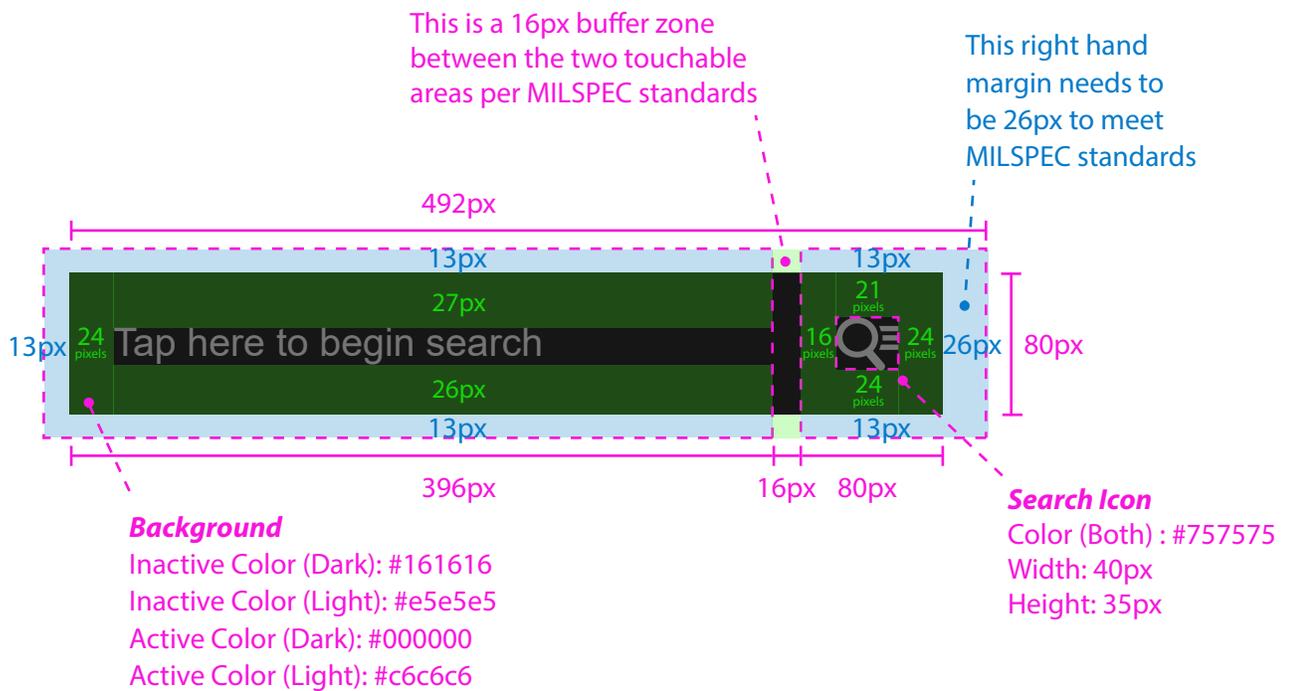
28px
by
28px

Complete
BG Color (Both): #0c873e
Text Color (Dark): #ffffff
Text Color (Light): #000000
Icon Color (Dark): #ffffff
Icon Color (Light): #000000

Search Bar

Behavior Notes:

- Located in a fixed position (on a persistent header) on the Index Page
- Once a user clicks to begin typing the Search Bar changes to it's active state
- If the user clicks outside the Search Bar, it remains active and any typed text remains
- If the user clicks "Go/Search" on the iPad keyboard, the Search Bar remains active and any typed text remains
- If the user clicks the close "X" on the right hand side, the Search Bar returns to it's inactive state and all typed text is deleted



On/Off Switch

Behavior Notes:

- Functions like a button just changes states from “on” to “off”
- Default state is off
- Touch-zone margin incorporated around switch to meet MILSPEC standards (denoted below)

Tile Text

**see page 8 for details*

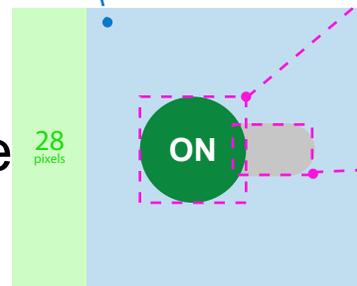
Color (Dark): #ffffff

Color (Light): #000000

Touch-zone of 106px by 106px

Light Theme

28 pixels



Circle

Size: 40 x 40 pixels

BG Color (On): #0c873e

BG Color (Off): #757575

Oval

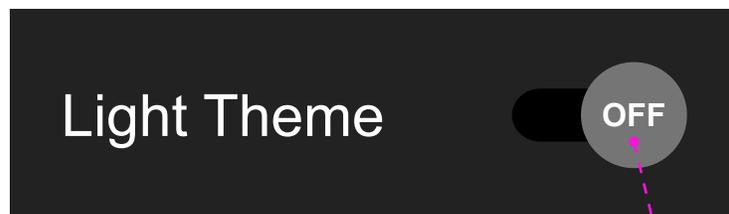
Size: 66 x 20 pixels

BG Color (On): #c6c6c6

BG Color (Off): #000000

Light Theme

OFF



Label

Font: Arial Bold (CAPS)

Size: 12pt

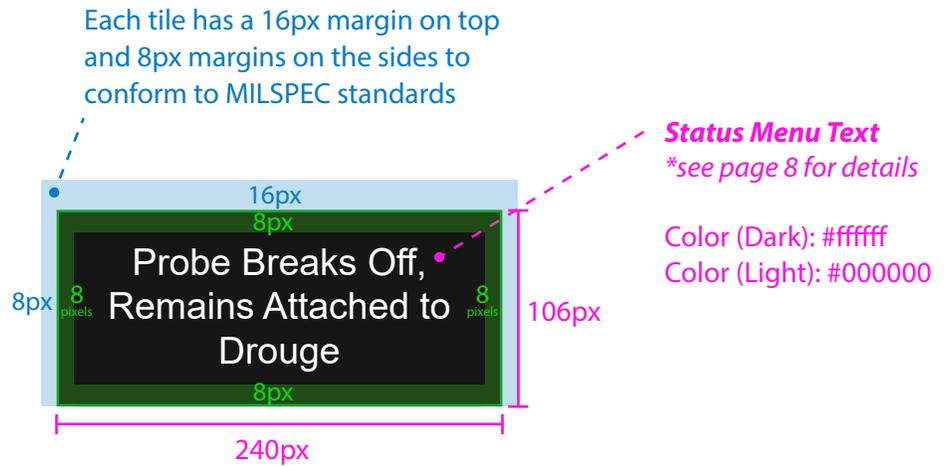
Color: #ffffff

Align: Center

Status Checklist Tile

Behavior Notes:

Appears in one of three columns on the Status Page with a corresponding border that denotes if the checklist is currently in-progress, has a deferred item, or is complete. Only disappears once a checklist has been manually reset from within the Settings Page.



Border
Width: 2px
Alignment: Inside
Color: #0c873e



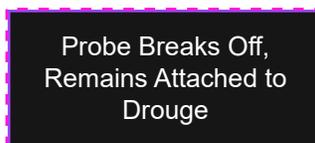
Complete
BG Color (Dark): #161616
BG Color (Light): #e5e5e5

Border
Width: 2px
Alignment: Inside
Color: #047faa



In Progress
BG Color (Dark): #161616
BG Color (Light): #e5e5e5

Border
Width: 2px
Alignment: Inside
Color: #9e46f2

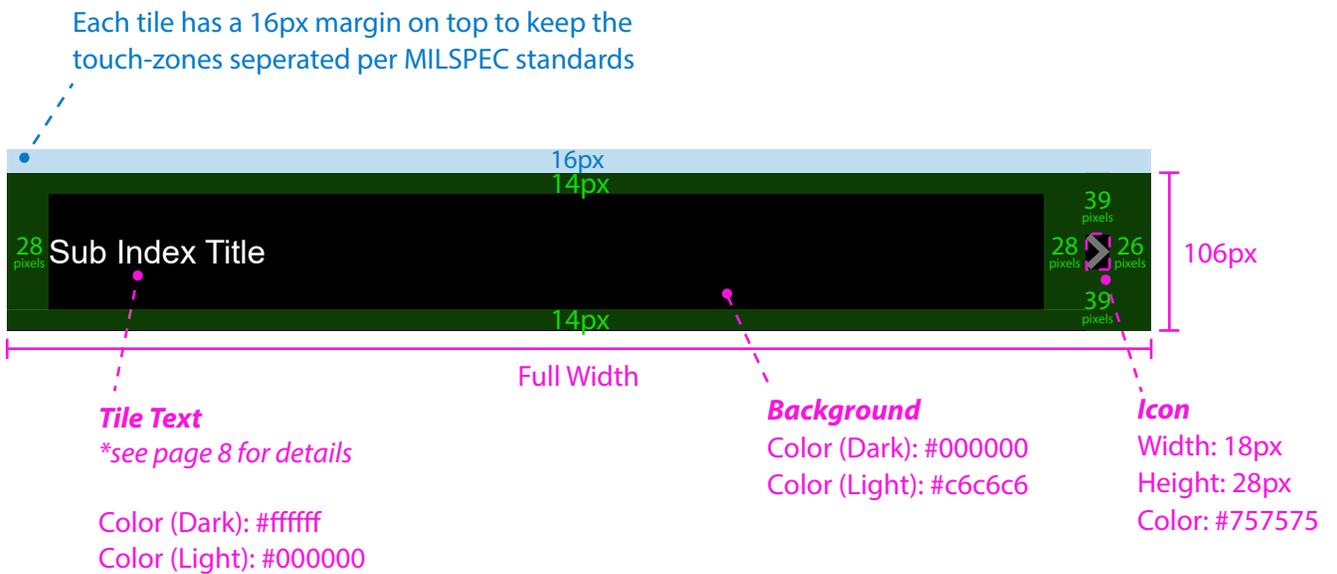


Deferred Item
BG Color (Dark): #161616
BG Color (Light): #e5e5e5

Index Down Tile

Behavior Notes:

This is the standard format for Sub-Indexes within the Index, it allows the user to “drill down” one level in the Index structure.



Index Up Tile

Behavior Notes:

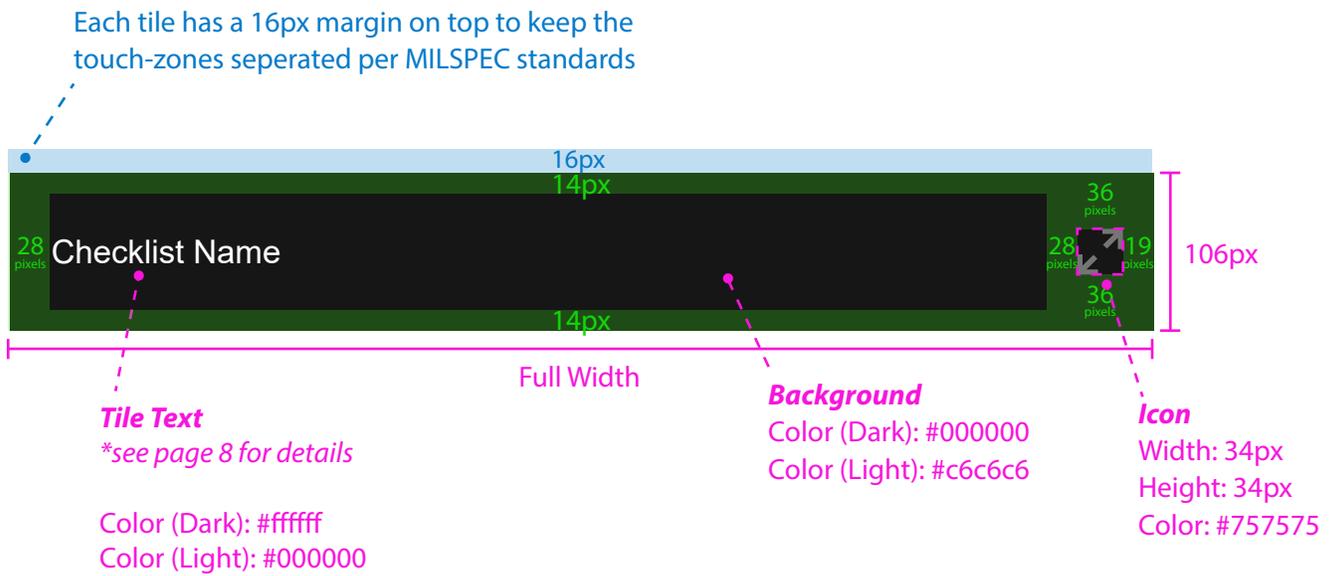
This is the standard format for Sub-Indexes within the Index, it allows the user to “go back” one level in the Index structure.



Index Checklist Tile

Behavior Notes:

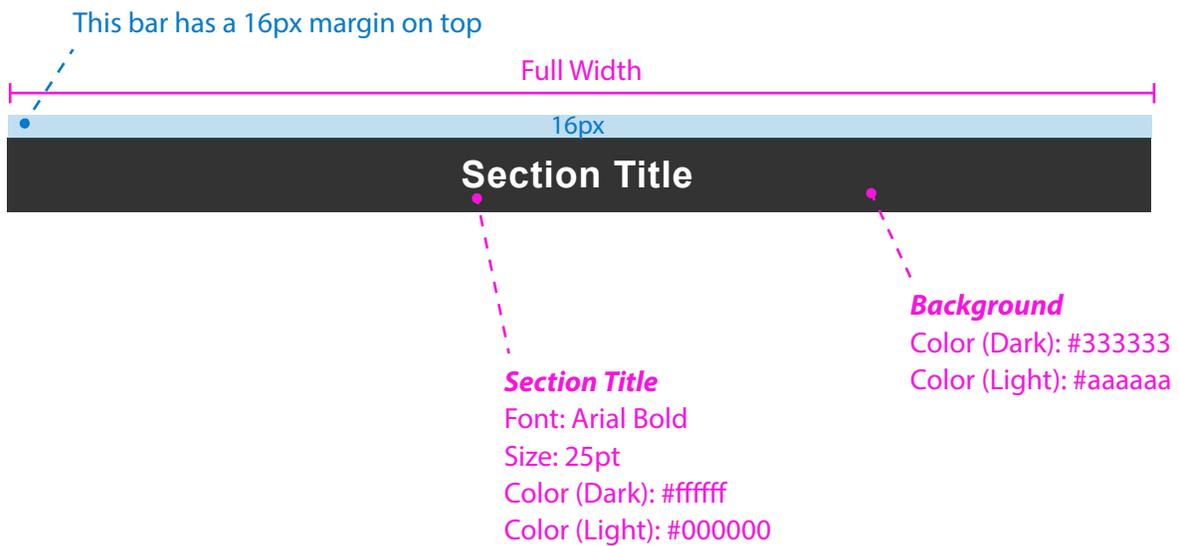
This is the standard format for displaying checklists within the Index.



Index Category Bar

Behavior Notes:

Unless displaying search results, Index Tiles (whether Checklists or Sub-Indexes) should be displayed with these Categorical Headers when applicable.



Status Page Header

Behavior Notes:

These are the header tiles for the three columns on the Status Page. By default each is in an inactive state until a checklist falls into their category. If there are any checklists that fall into their category they become active and those checklists appear in as clickable tiles in a column underneath their respective header.

Status Menu Text
*see page 8 for details

Color (Dark): #222222
Color (Light): #ffffff



In Progress

In Progress

Active Color (Both): #047faa
Inactive Color (Dark): #333333
Inactive Color (Light): #e5e5e5

Deferred Item

Deferred Item

Active Color (Both): #9e46f2
Inactive Color (Dark): #333333
Inactive Color (Light): #e5e5e5

Complete

Complete

Active Color (Both): #0c873e
Inactive Color (Dark): #333333
Inactive Color (Light): #e5e5e5

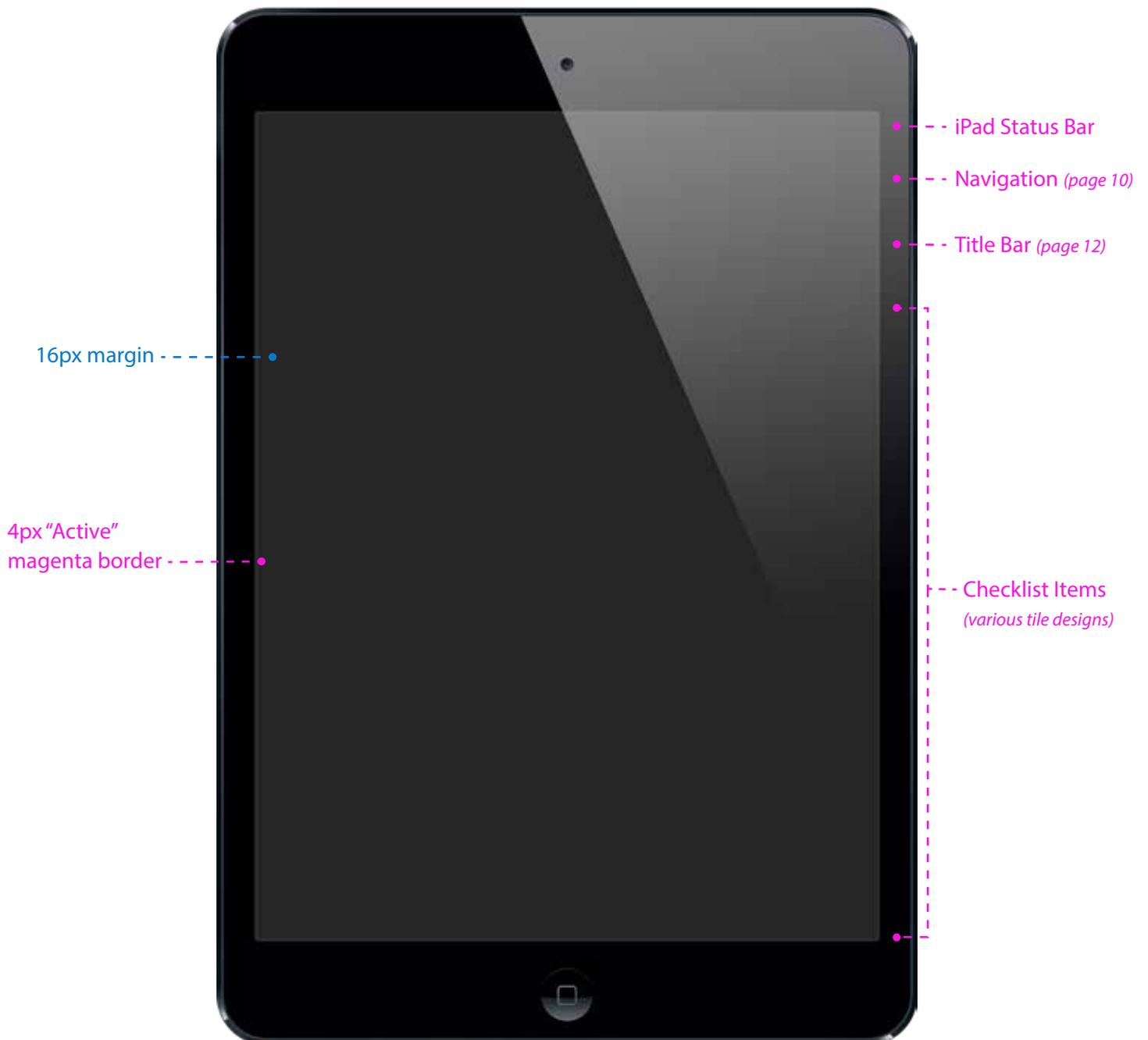


Page Layouts

Checklist Screen

Behavior Notes:

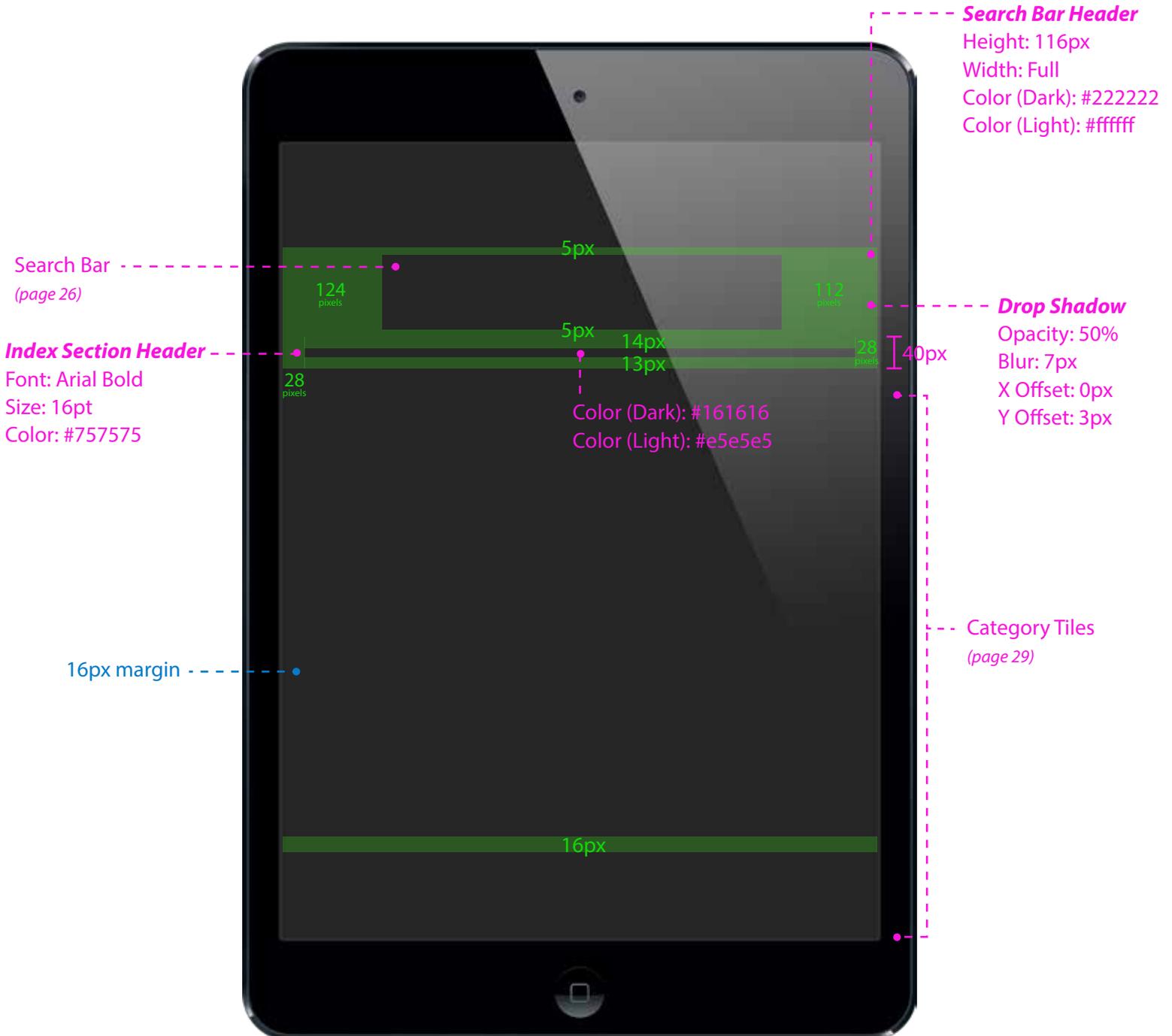
The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a persistent, reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below. The checklists should always begin with a “Condition/Objective Tile” and should scroll underneath the Title Bar and Navigation.



Index

Behavior Notes:

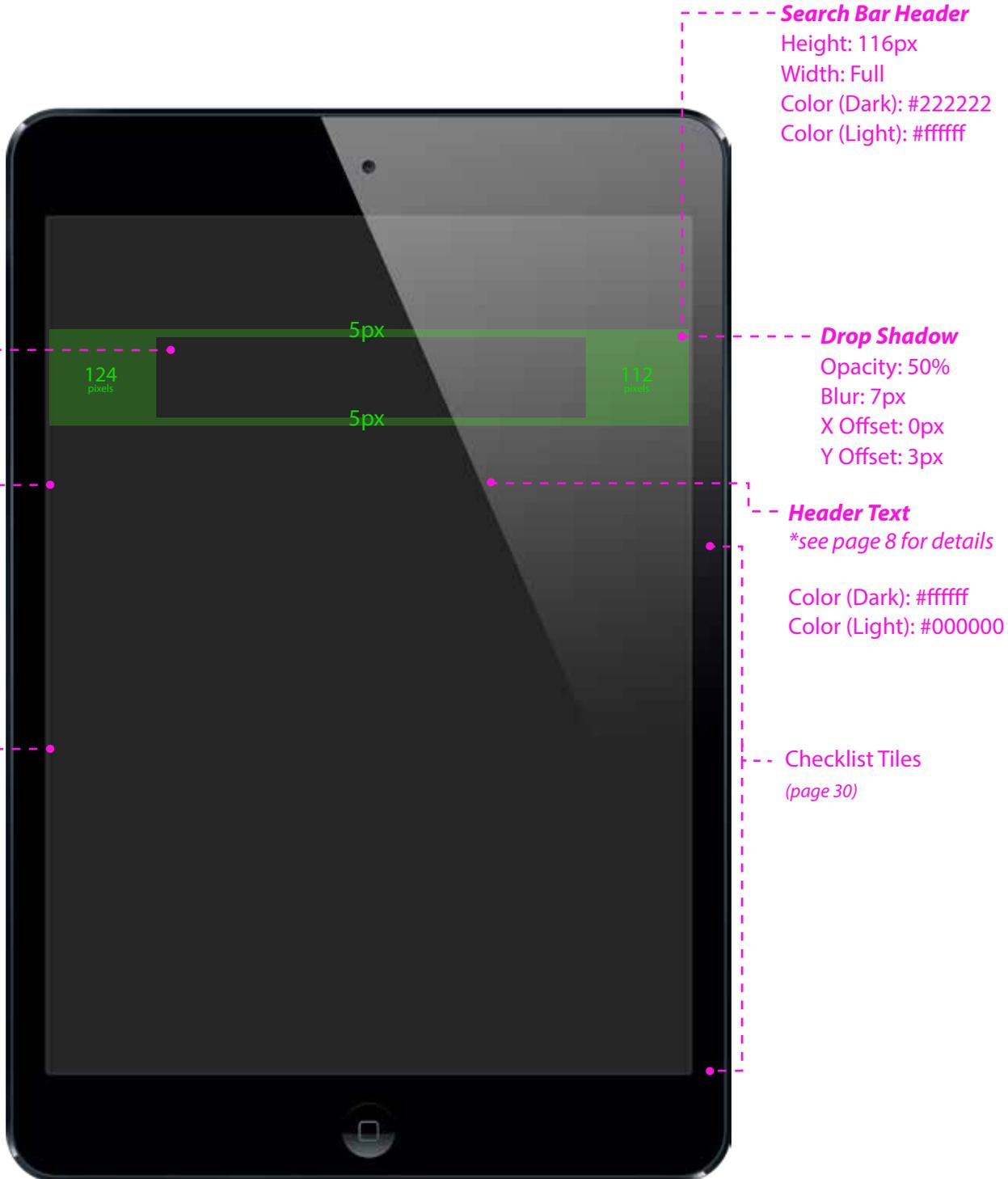
The Index Page is structured with a persistent navigation and search bar header on the top of the page with non-interactive breadcrumbs and category/checklist content below it. Once the user has left the root Index the top item (after the breadcrumbs) is always a "Previous Category" tile. Both the breadcrumbs and the content beneath them should scroll underneath the persistent navigation and search bar header.



Sub Index

Behavior Notes:

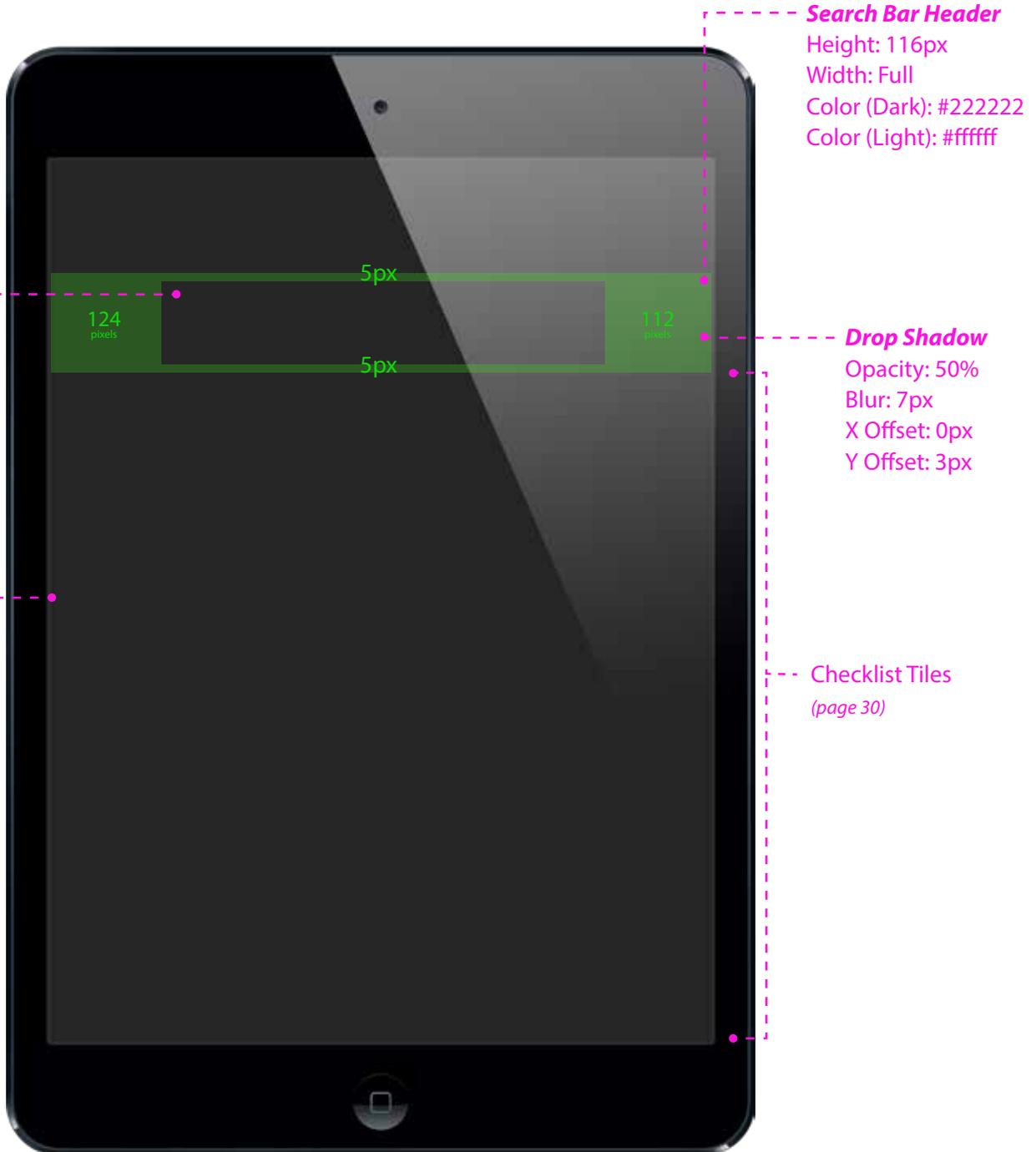
A Sub Index is structured almost identically to the root Index page except the first item in the category and checklist section is always a contextual back option to allow the user to drill back up the index structure.



Search

Behavior Notes:

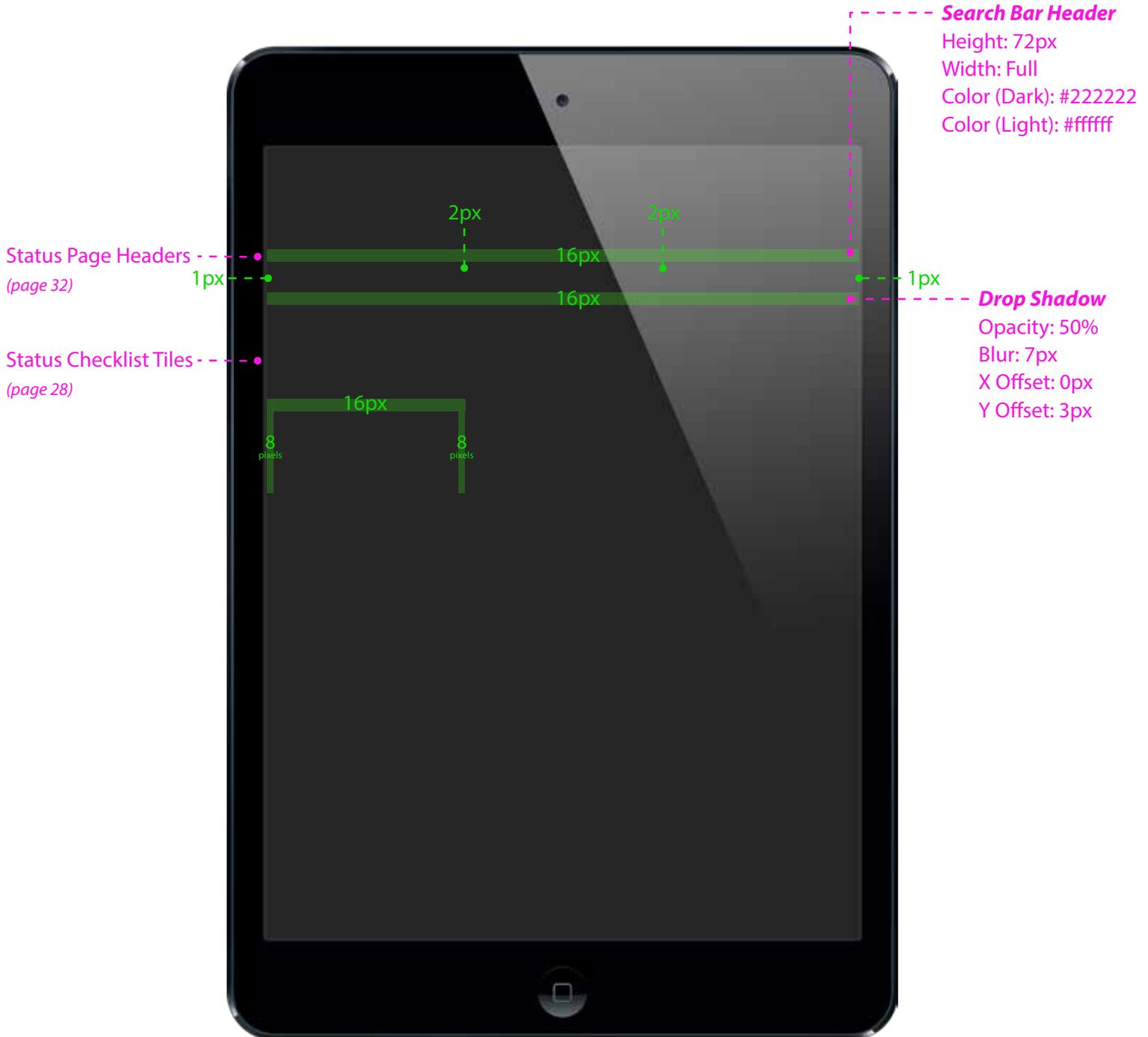
When the user begins a search, the default system keyboard will slide on and they can begin typing in the designated field. There are no bread crumbs on the search page and the only results are Checklist Tiles (not Category Tiles).



Status

Behavior Notes:

The Status Page is divided into two sections; a persistent navigation and column header at the top and checklist status tiles on the bottom. Like the other top navigation pages, these checklist status tiles scroll underneath the persistent elements. If a column does not have any checklists that actively fall into that category then that column's header becomes inactive.



Operational Limitations

Behavior Notes:

The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.



Settings

Behavior Notes:

The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.



Confirmation Modal

Behavior Notes:

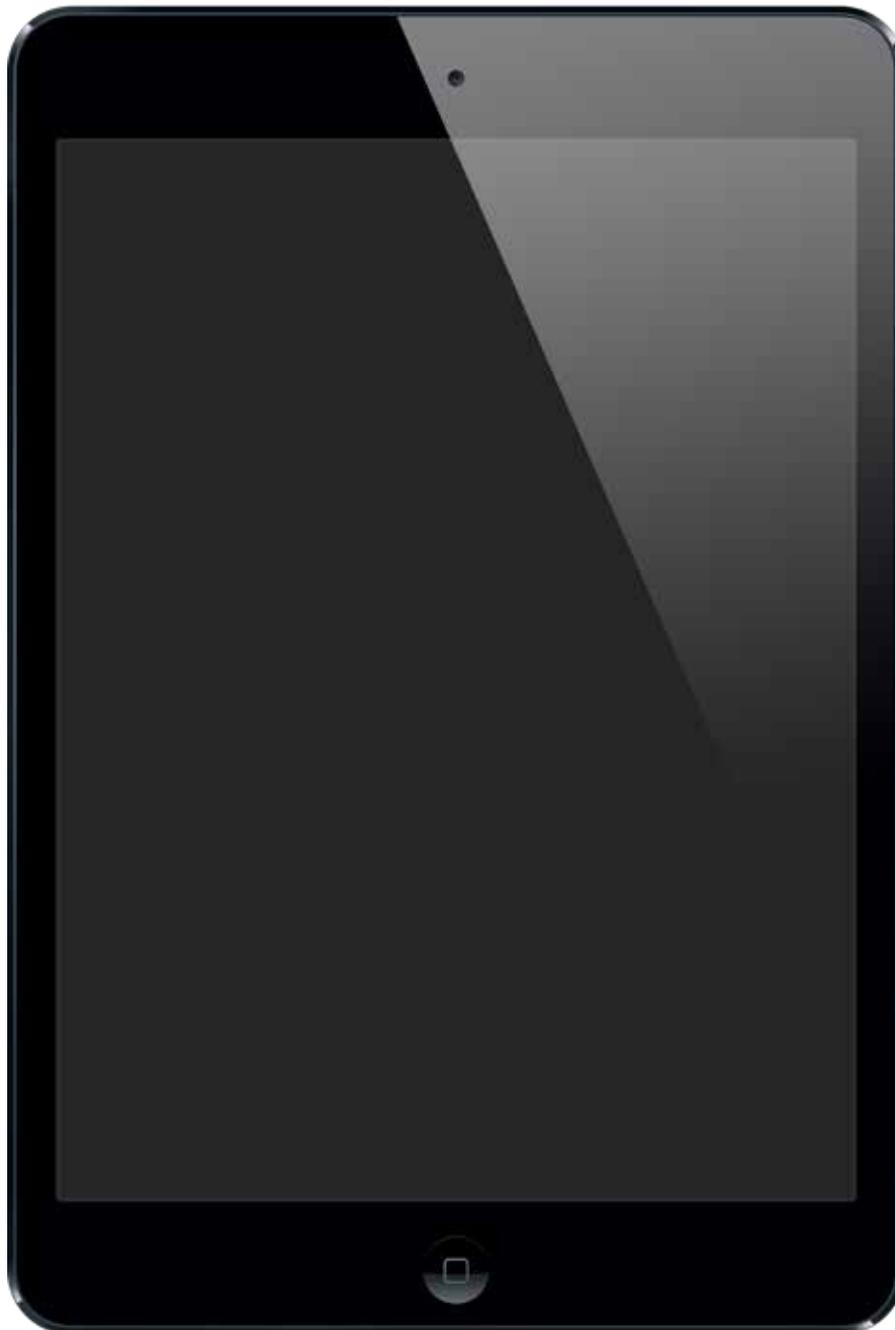
The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.



Blank (no checklists open)

Behavior Notes:

The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.



Question w/ Toggle Buttons

Behavior Notes:

The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.

Prompt w/ Standard Button

Behavior Notes:

The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.

Question Grouping

Behavior Notes:

The structure of the checklist screen is fairly straightforward as outlined below; there is a persistent navigation coupled with a reactive title bar at the top and an area for dynamically populated checklist tiles (of varying formats) below.



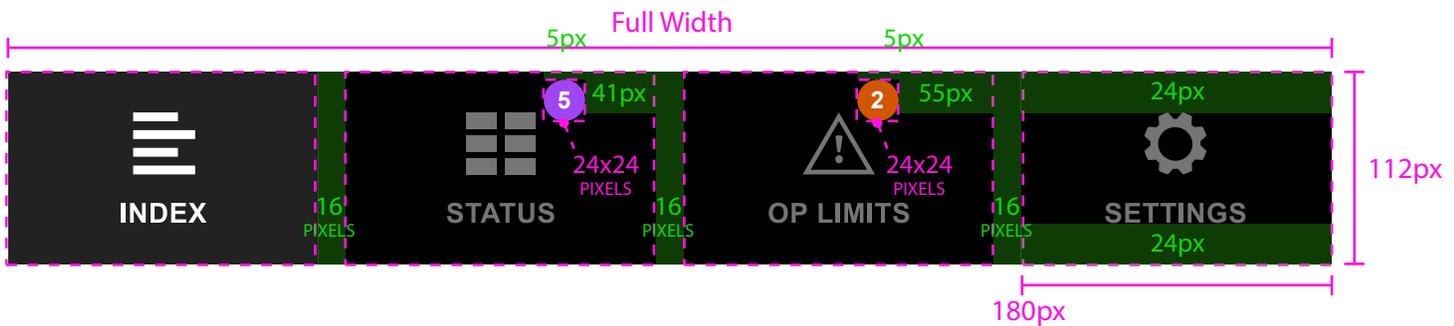
Appendix

Navigation (with counters)

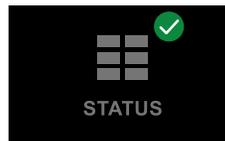
Behavior Notes:

- The navigation is persistent and should always be available to the user
- The "Status" link is inactive until at least one checklist has been started
- The "Op Limits" link is inactive unless there are Operational Limitations currently in place

The behavior of the Status Alert Counter is outlined below but can be summarized by the following parameters: if there are any in progress checklists the counter displays that total quantity in a blue circle, if there are any deferred checklists the counter displays the total quantity of in progress **AND deferred checklists in a purple circle, once all checklists are complete the counter becomes a green checkmark.*



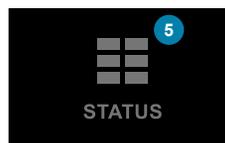
Status Alert Counter



All Complete

Circle Color: #0c873e

**this green checkmark icon is identical to the one used for tile status*



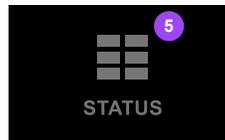
In Progress Checklists

Circle Color: #047faa

Font: Arial Bold

Size: 14pt

Color (Both): #ffffff



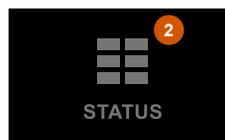
Deferred Item Checklists

Circle Color: #9e46f2

Font: Arial Bold

Size: 14pt

Color (Both): #ffffff



Operational Limitations

Circle Color: #d35500

Font: Arial Bold

Size: 14pt

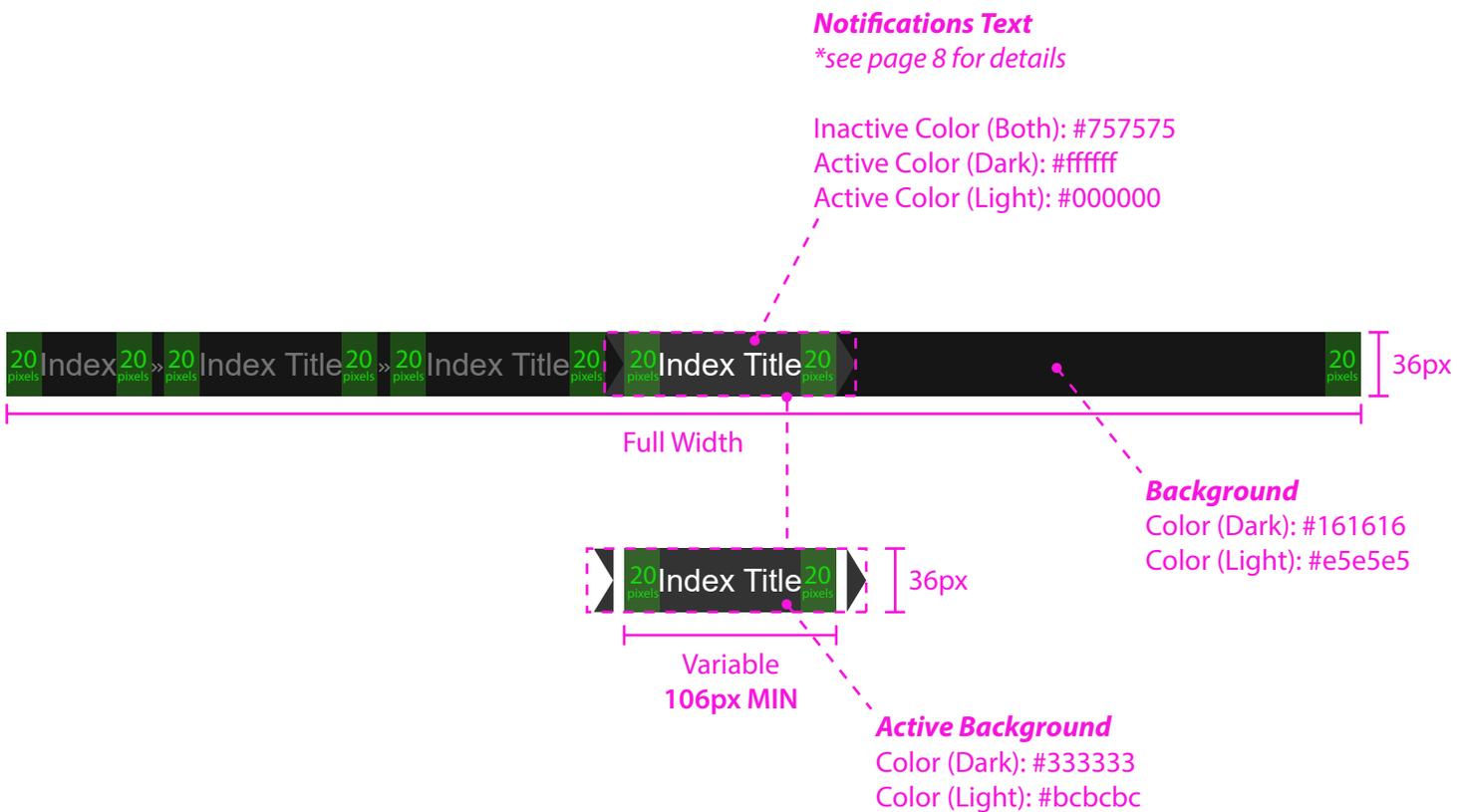
Color (Both): #ffffff

Breadcrumb Navigation

Behavior Notes:

These breadcrumbs are **NOT** interactive, they simply serve as a visual roadmap for the user as they navigate down into the Index. Each Index page that is currently being viewed is represented by an active breadcrumb and each previous Index page the user has drilled down through is represented by an inactive breadcrumb. As the user navigates back up through the pages, they should disappear from the breadcrumbs all together.

**If the breadcrumb items grow wider than the full screen allows, all items should slide to the left and the active item will essentially be right aligned with 28px of padding (as the user navigates back up and the overall width decreases, just invert this action).*



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