

Myth-Busting LED Lighting

When The Rubber Meets The Road

Reality vs. Theory Wins Every Time
John Gates

Myth-Busting LED Lighting – When The Rubber Meets The Road

So, You Wanna Switch To LEDs

Upgrade
Rehab/Renovate

New Construction

You Are Not Stupid, But..

Like Most Things In Life, Experience Always Helps

Myth #1 = “*It’s Complicated*”

Reality =

It’s Different In Some Ways

It’s Pretty Much The Same in Most Ways

Like Most Things In Life, Experience Always Helps

Myth #1 vs. Reality

Many Things Are The Same:
Same Lights with New Technology

Same Lights with New Features (*like color changing*)

Lighting Control Consoles Evolving for Easy Use

Myth #1 vs. Reality

Some Things Are Different:

DMX control signal – *addresses & wires*

Non-Dim Constant Power – *not voltage regulation*

Some New Forms of Lighting Fixtures

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The Reality of an Upgrade Project

KTRK – ABC O&O in Houston, TX

A New Large News Set - Perfect Timing
Smart Engineering & Production Personnel
Lighting Maintained by Production (*Directors*)

Technology Never Supersedes Production

We Always Have “Situations”

Many Talent Positions & Many Camera Angles

Wide Range of Programming on the Same Set

Display & LED Rich News Environment

a.k.a. Many Shiny Surfaces

Monitors & Computer Displays, 2 Monitor Walls, Back-Lit Plexiglas Set

No Light Cues During a Program

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Appropriate Technology Helps Production

Back-Lit Set = DMX Controlled LED Tape

Other Scenic Elements = DMX Controlled LED Tape

DMX Distribution for Lighting & Set



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Infrastructure = Foundation

Relatively Recent Lighting Systems Upgrade:
Good Dimming System

Good Power & Distribution System



Upgrade Infrastructure - *Power*

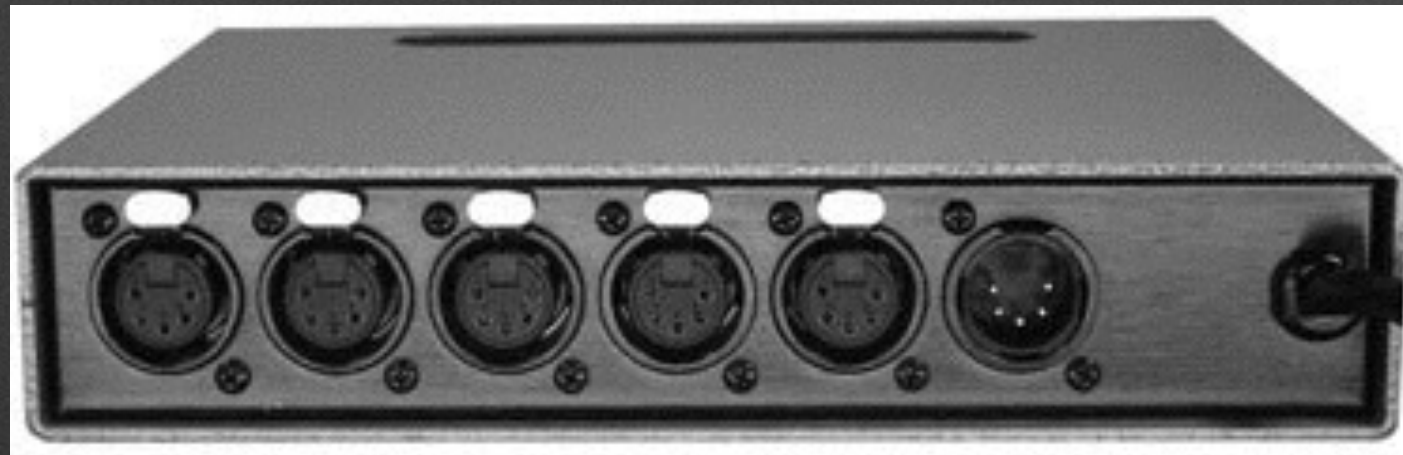
Started by Swapping Out Some Dimmers for Non-Dims
Added Supplemental Distribution to Lighting Grid



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Upgrade Infrastructure - *Signal*

Installed a DMX Lighting Control Network



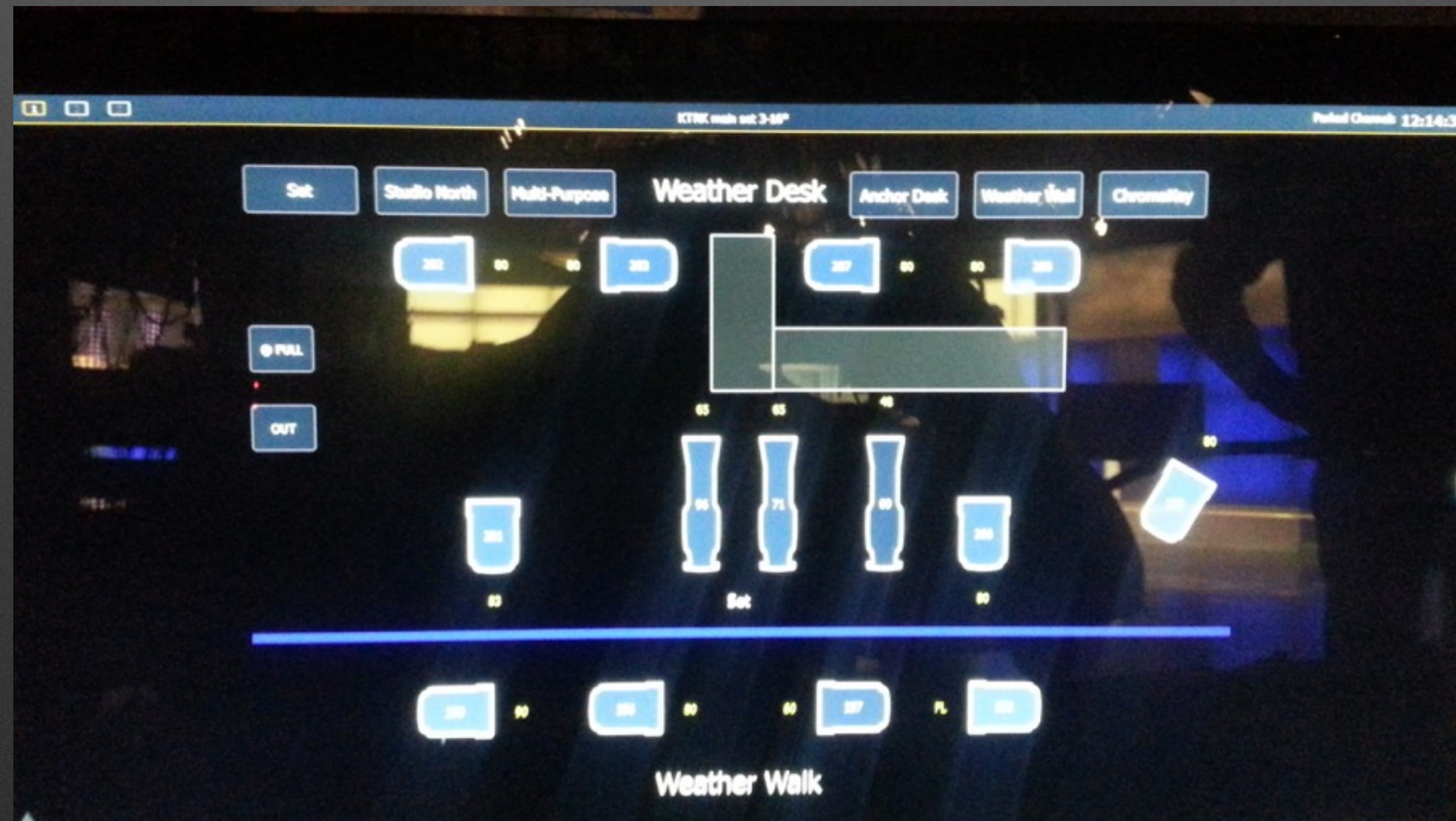
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Upgrade Infrastructure - *Control*

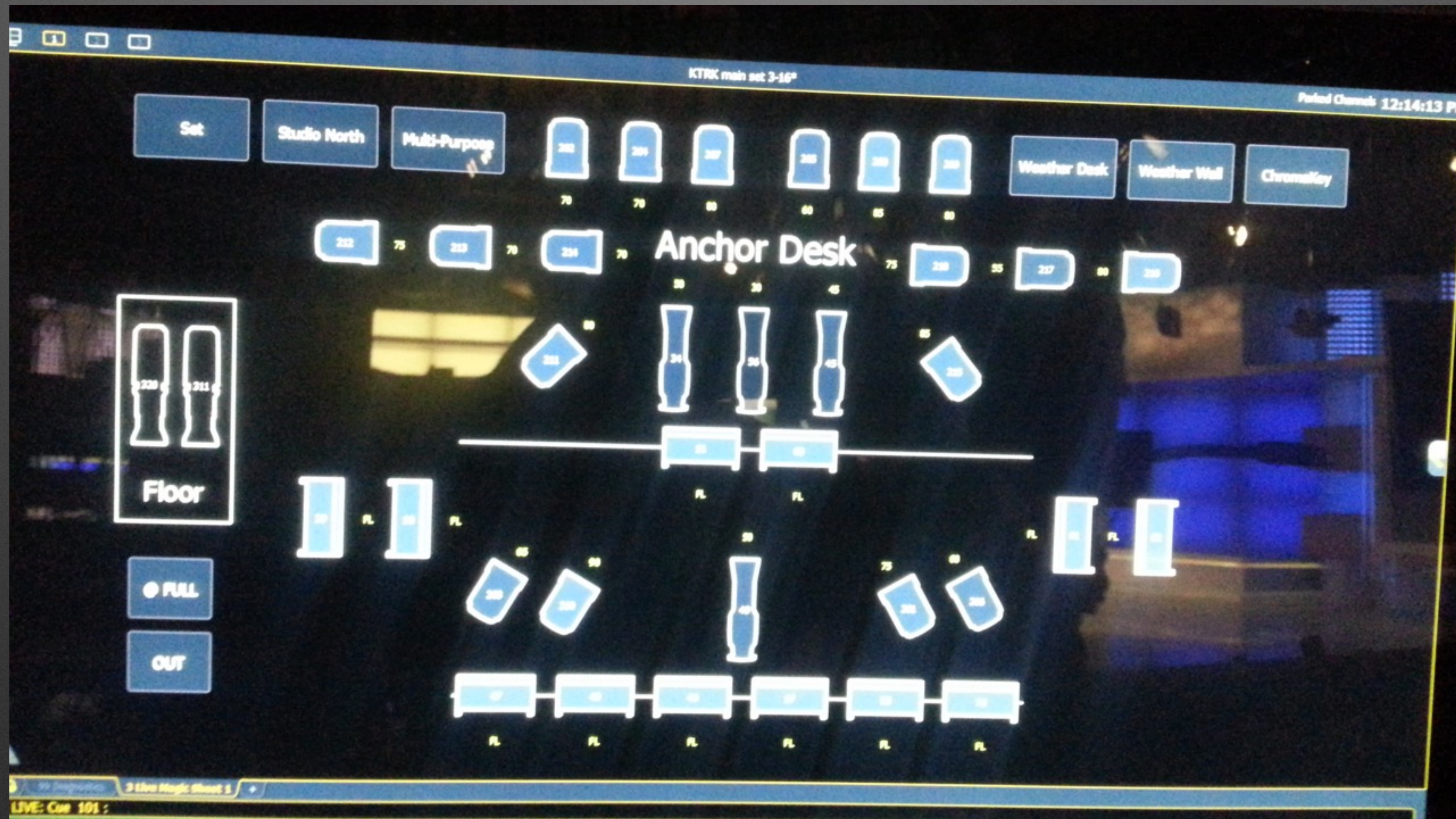
Installed a Very User-Friendly Lighting Control Console

Trained KTRK Staff

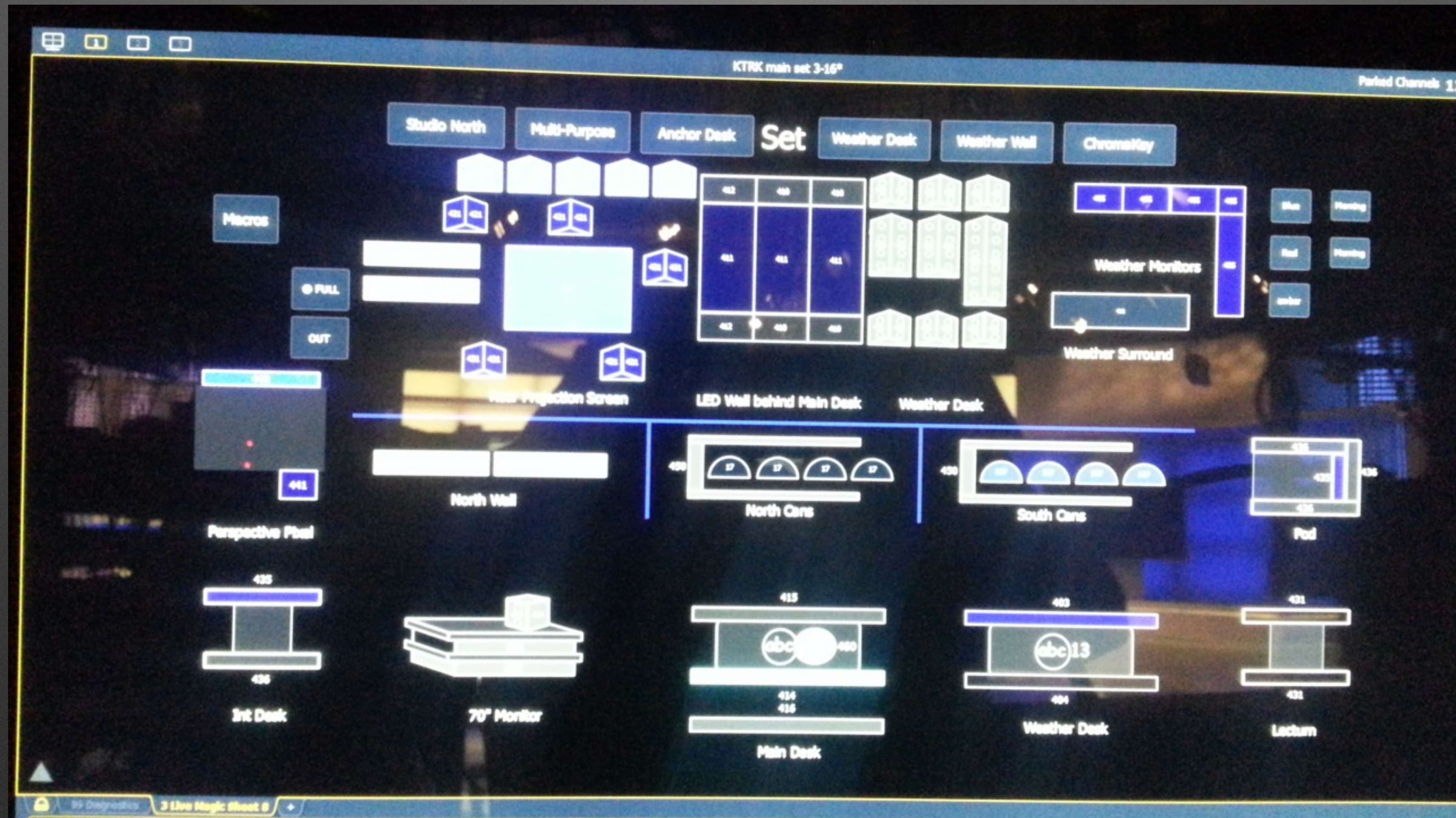
Programmed by Experienced Operator



GUI Control of Talent Lighting by Area



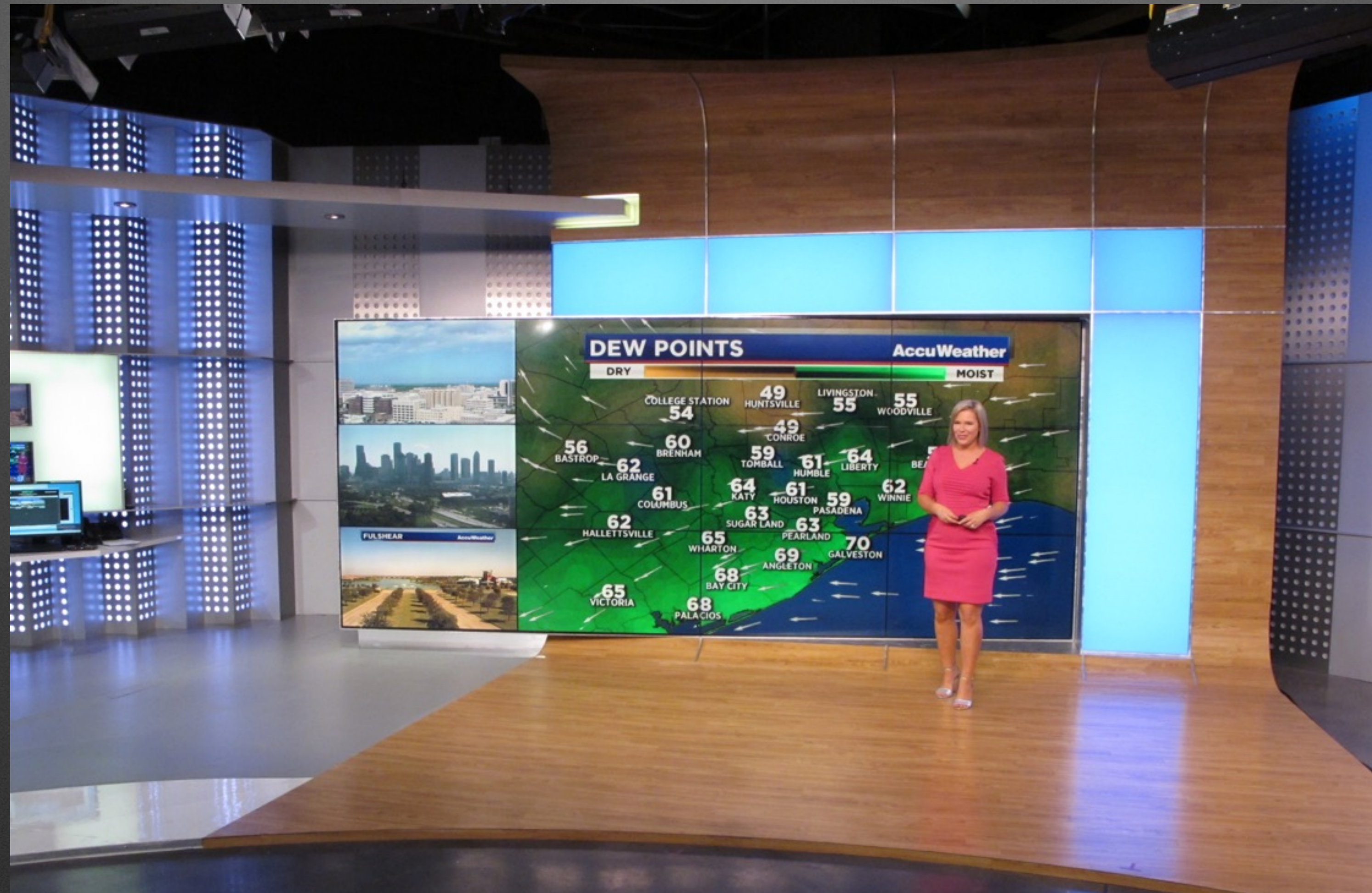
GUI Control of Lighted Set Elements



Situations Requiring Attention



Situations Requiring Attention



Situations Requiring Attention



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Situations Requiring Attention



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Situations Requiring Attention

When the Chromakey is Next to a Video Wall



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Situations Requiring Attention



...take aways...

It's Not Complicated

Don't Believe Everything You Hear

Smart People Make You Look Smarter

Do Your Homework