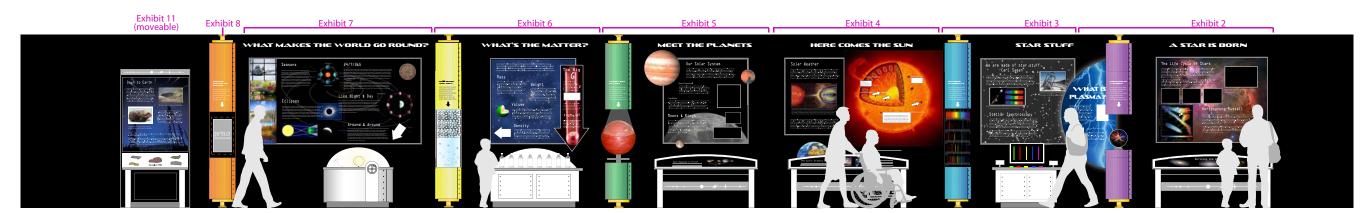
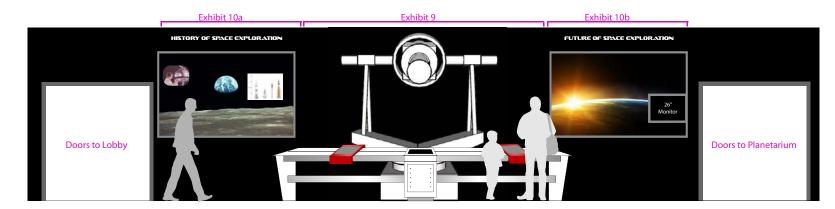


Lobby Wall Elevation



Curved Gallery Wall Elevation



Straight Gallery Wall Elevation



These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc.

© 2009 Malone Inc.

Project:



BLAKEMORE PLANETARIUM

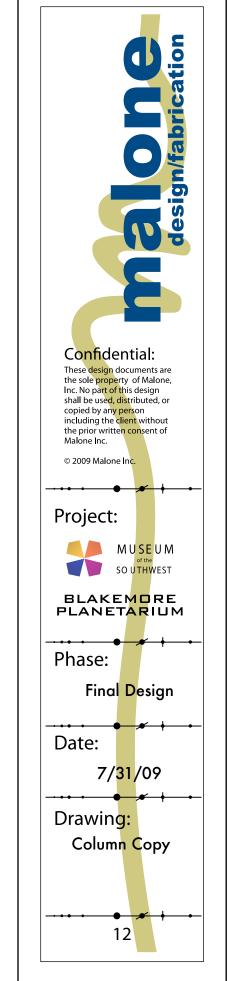
Date:

May 6t<mark>h, 2</mark>009

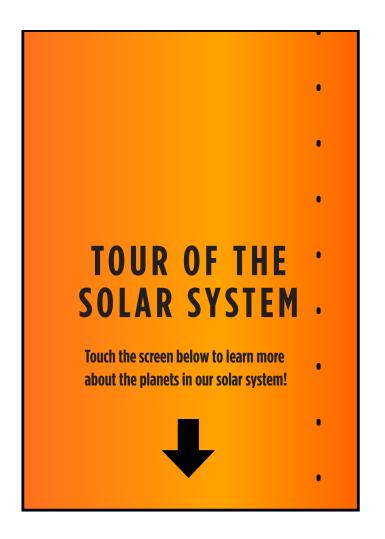
Drawing:

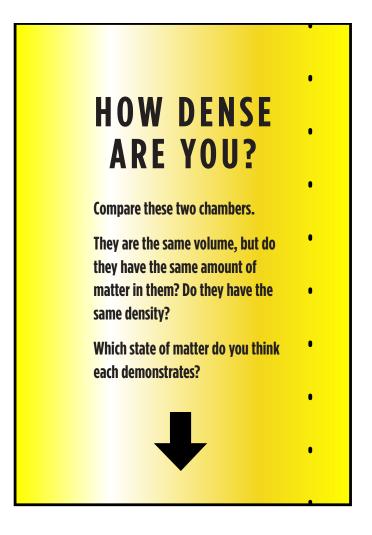
Color El<mark>evations</mark>

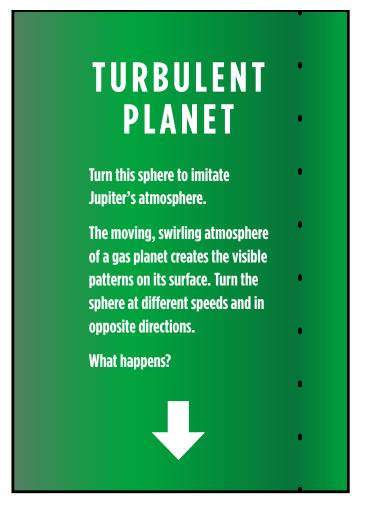


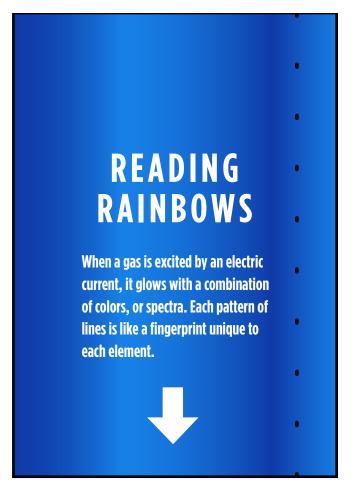


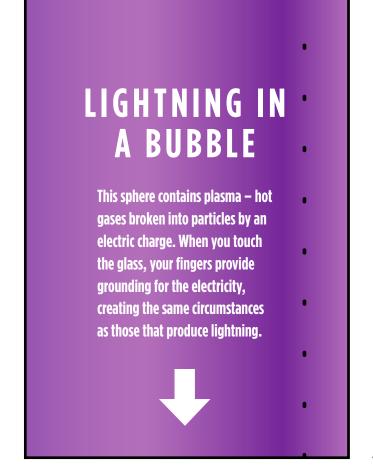
Interactive Column Vinyl

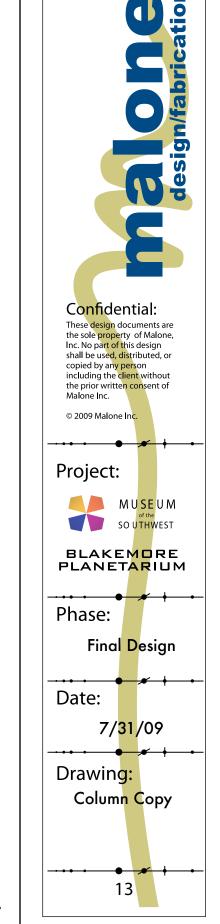




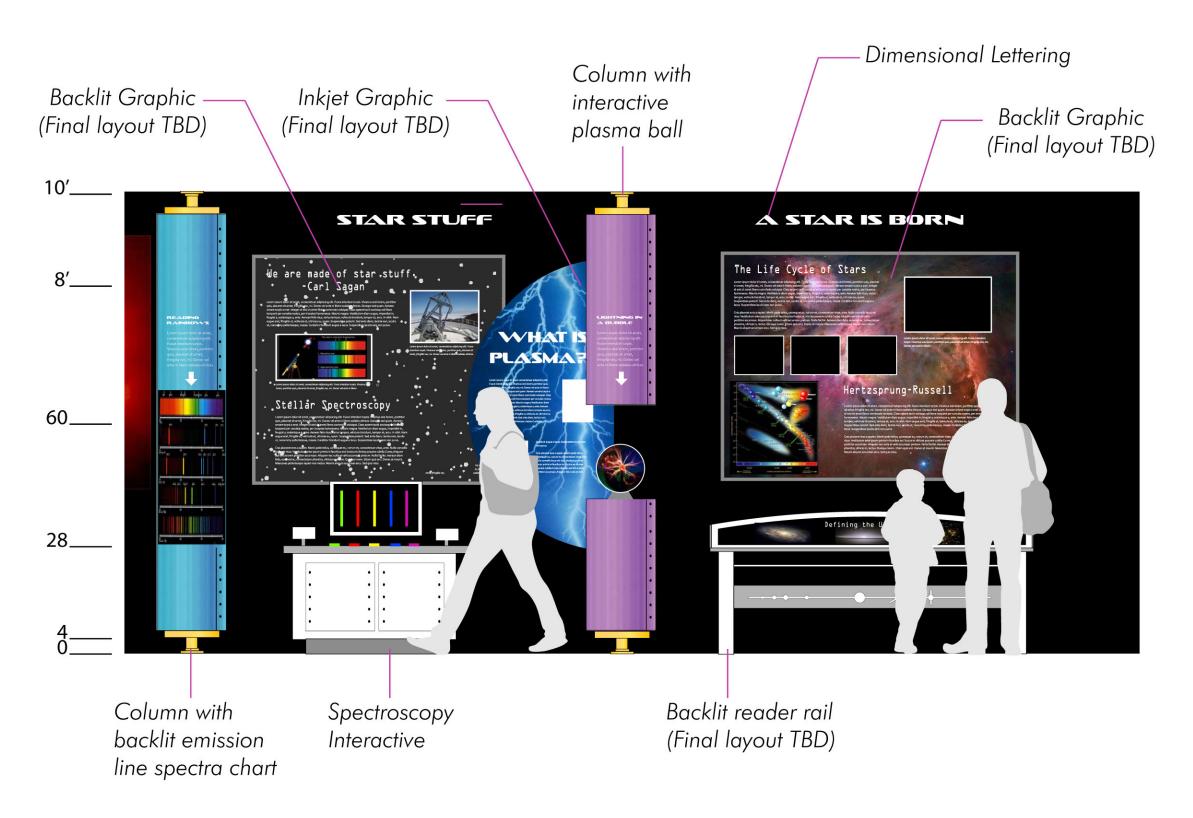








Interactive Column Vinyl - ENLARGED FOR PROOFING



Exhibits 2 & 3 - A Star is Bron & Star Stuff



These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc.

© 2009 Malone Inc

Project:



BLAKEMORE PLANETARIUM

Date:

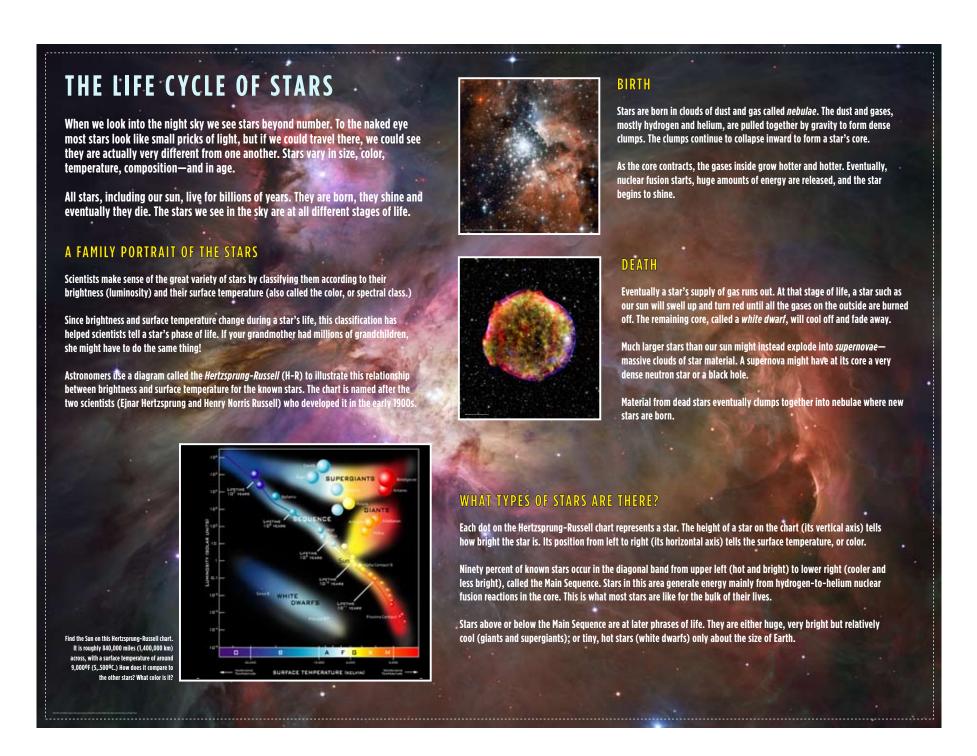
May 6t<mark>h, 2</mark>009

Drawing:

Exhibits 2 & 3
Color Elevation

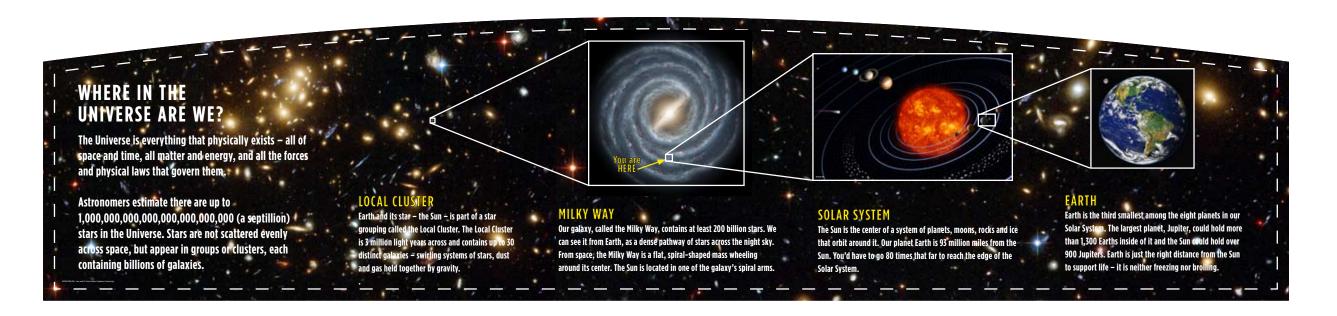
A STAR IS BORN

G02-01 - Dimensional Title - 3" letter height

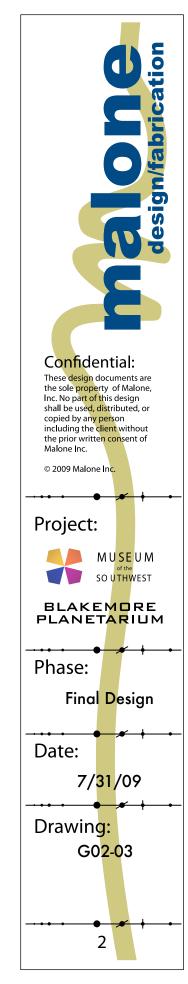


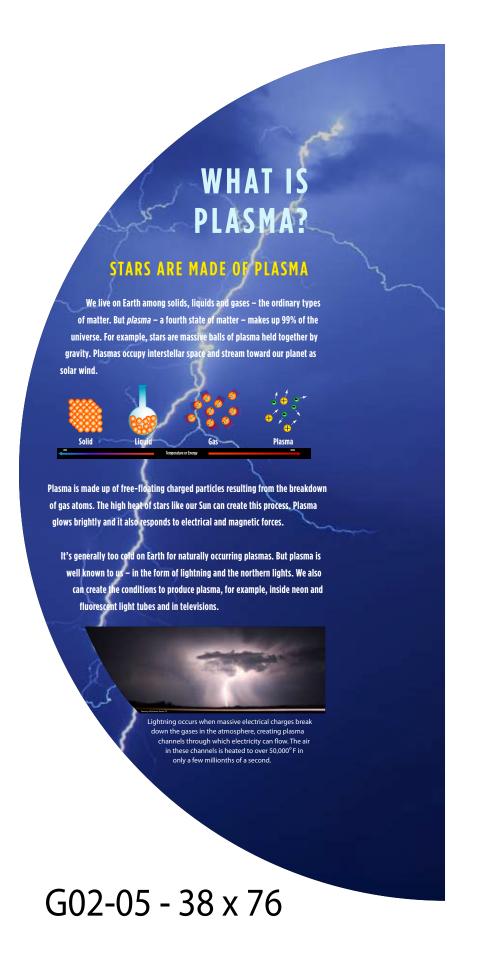
G02_02 - 77.5625" x 58.5625"

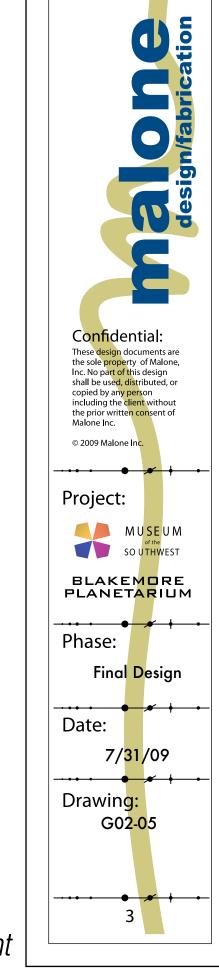
Confidential: These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc. © 2009 Malone Inc. Project: MUSEUM SO UTHWEST BLAKEMORE PLANETARIUM Phase: Final Design Date: 7/31/09 Drawing: G02-01 G02



G02-03 - 80" Backlit Reader Rail



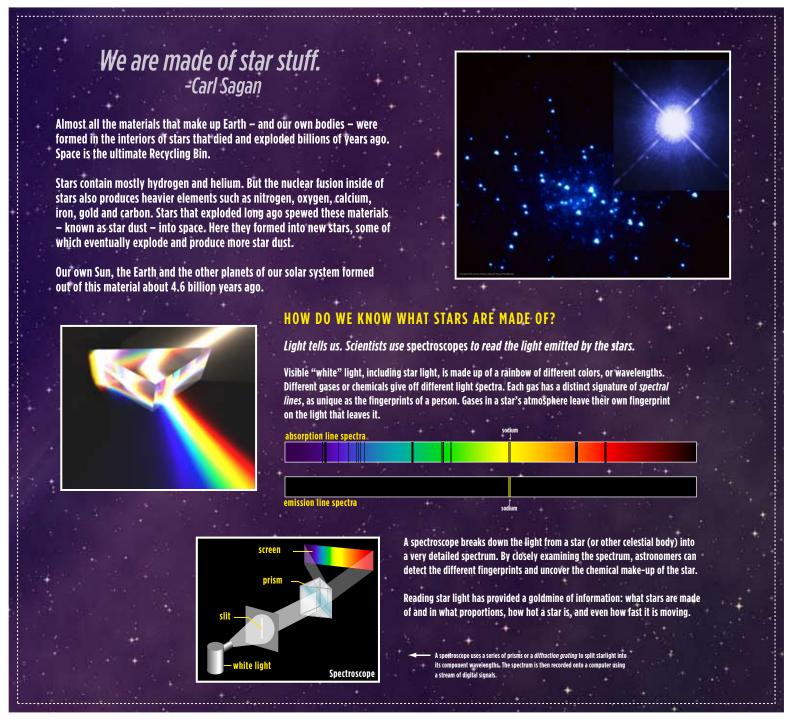




Contour-cut Lambda Print

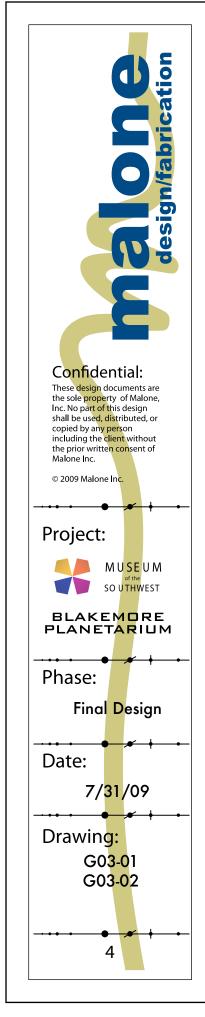
STAR STUFF

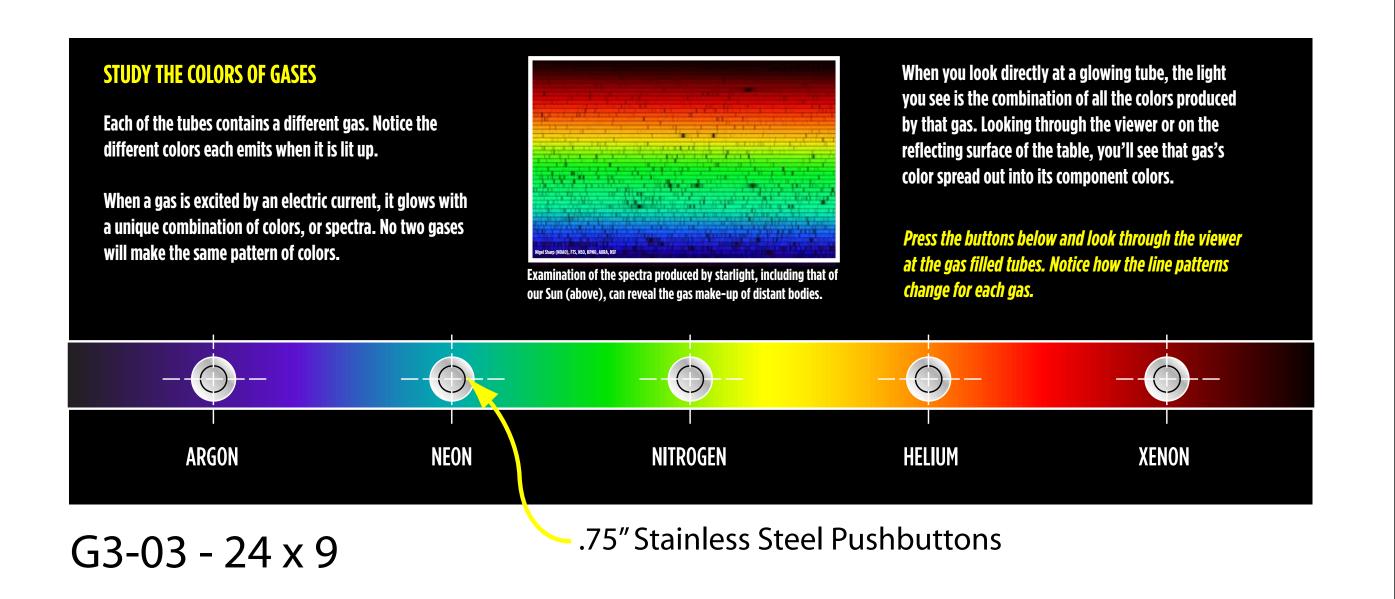
G3-01 - Dimensional Title - 3" letter height

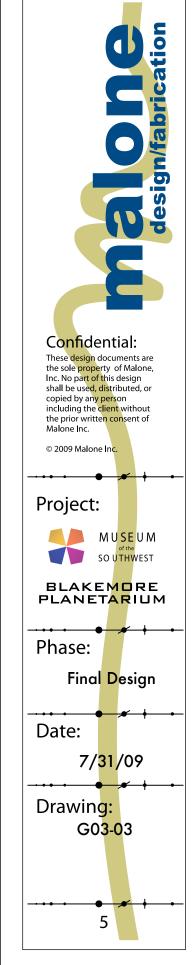


G03-02 - 65.5 x 59.5625

PANEL APPROVED FROM PACKAGE DATED 7-24-09

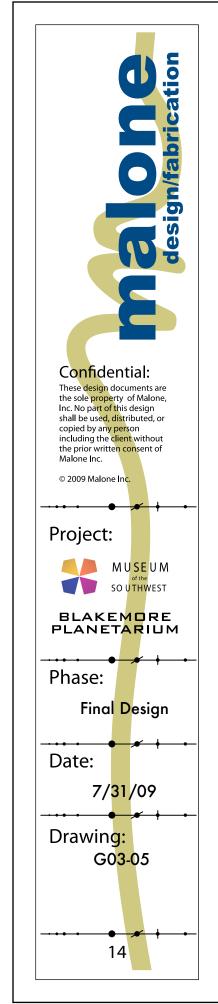




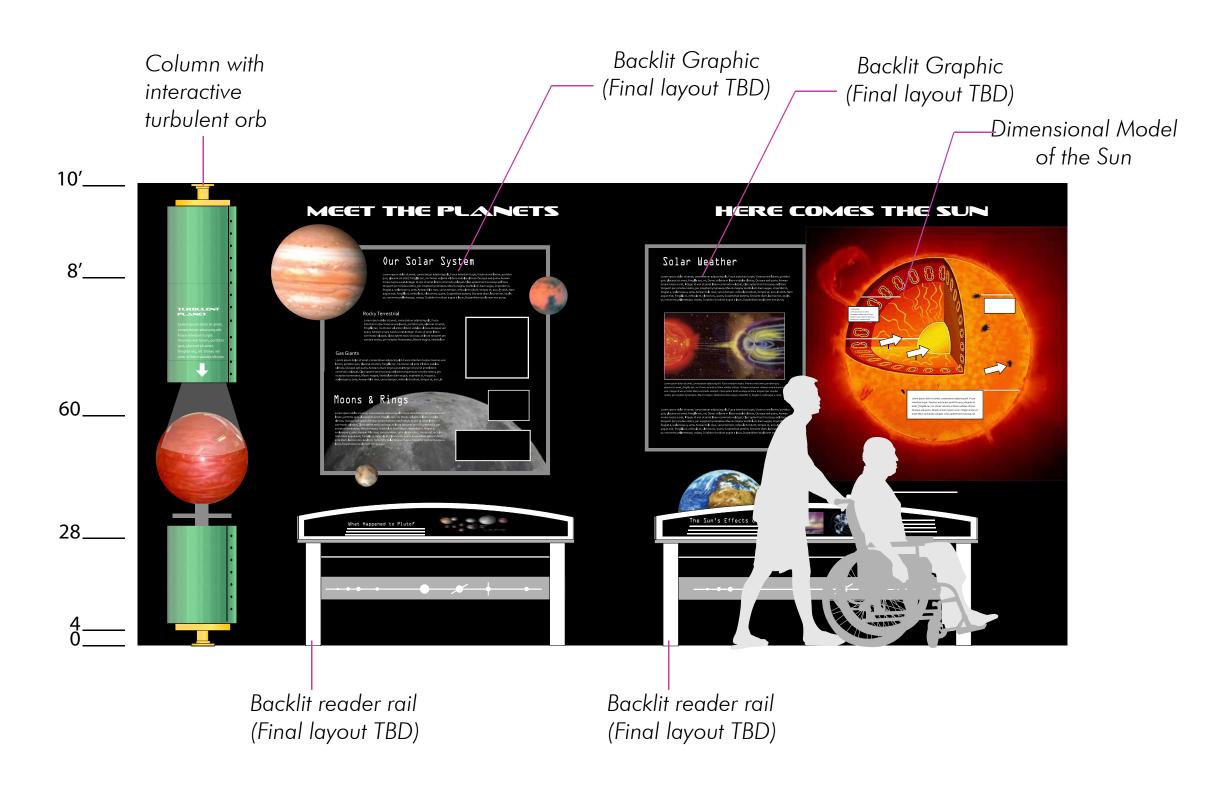


,,
:
. HYDROGEN :
:
HELIUM
CARBON
:
NEON
:
MERCURY
LITHIUM
:
CALCIUM
· []
URANIUM
:
:
:
• • • • • • • • • • • • • • • • • • • •

G03-05 - 14.875 x 34.625



Interactive Column Duratran



Exhibits 4 & 5 - Here Comes the Sun and Meet the Planets



These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc.

© 2009 Malone In

Project:



BLAKEMORE PLANETARIUM

Date:

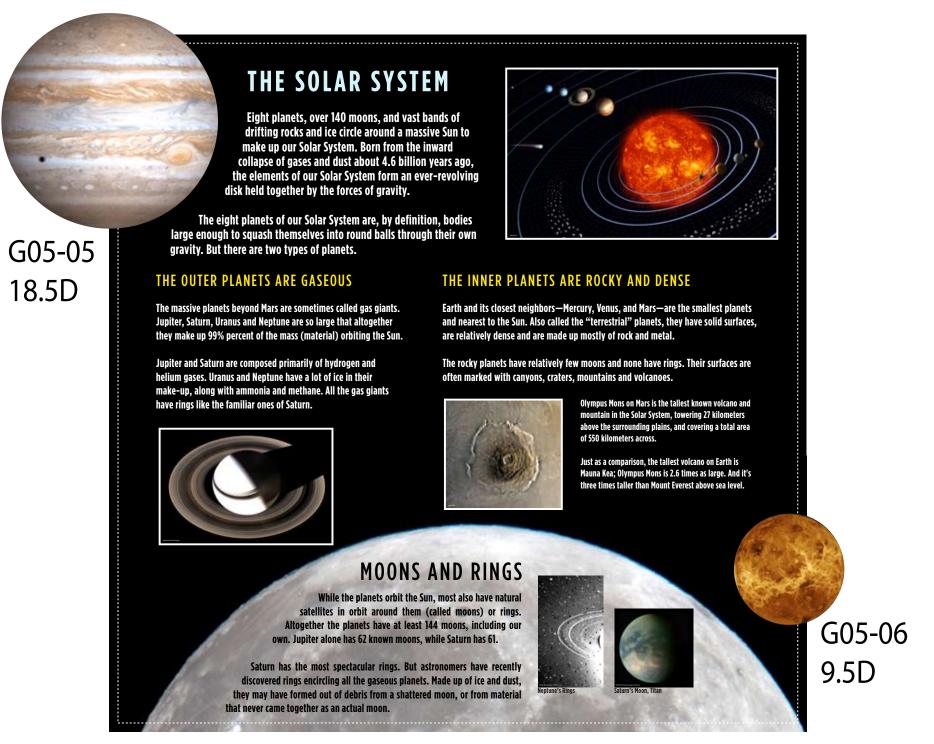
May 6t<mark>h, 2</mark>009

Drawing:

Exhibits 4 & 5
Color Elevation

MEETTHE PLANETS

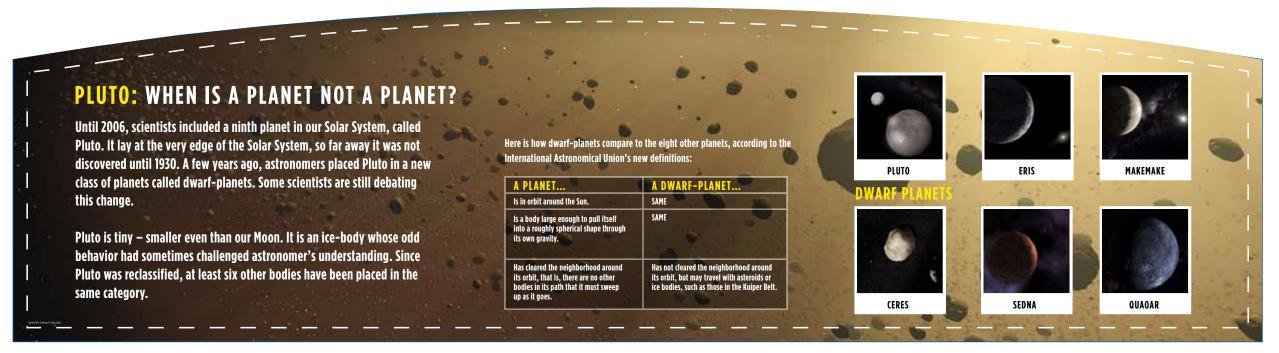
G05-01 - Dimensional Title - 3" letter height



G05-02 - 59.5625 x 59.5625

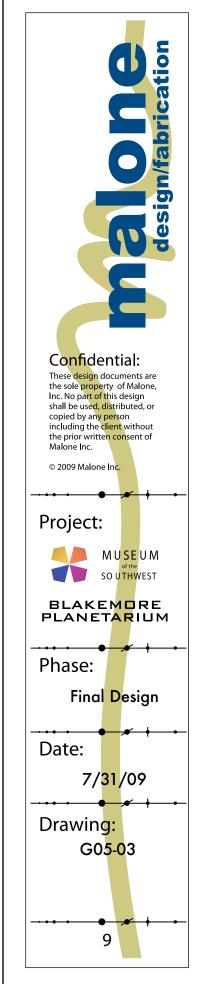
PANEL APPROVED FROM PACKAGE DATED 7-24-09

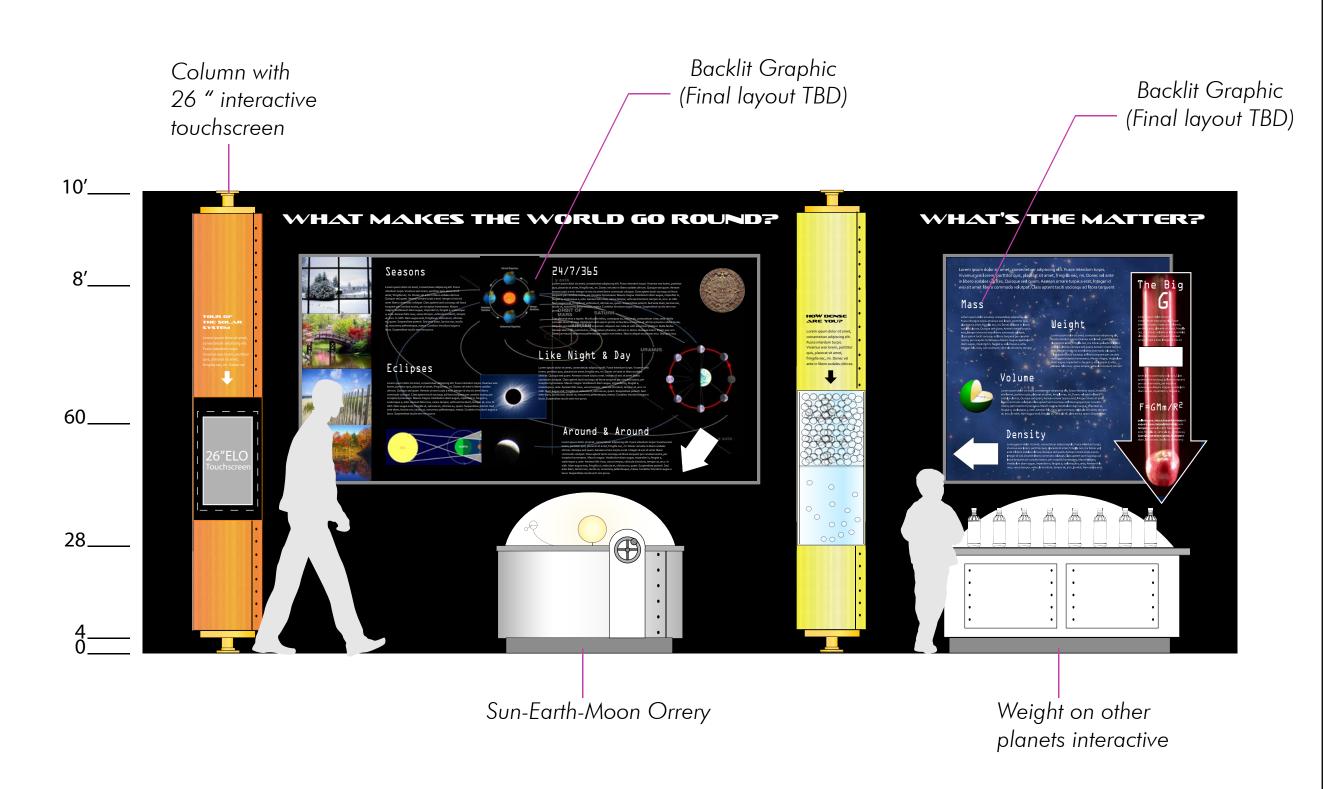
Confidential: These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc. © 2009 Malone Inc Project: MUSEUM SO UTHWEST BLAKEMORE PLANETARIUM Phase: Final Design Date: 7/31/09 Drawing: G05-02 8



G05-03 - 68" Backlit Reader Rail

PANEL APPROVED FROM PACKAGE DATED 7-24-09





Exhibits 6, 7 & 8 - What's the Matter, ... World Go Round and Tour of the Solar System



These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc.

© 2009 Malone Inc

Project:



BLAKEMORE PLANETARIUM

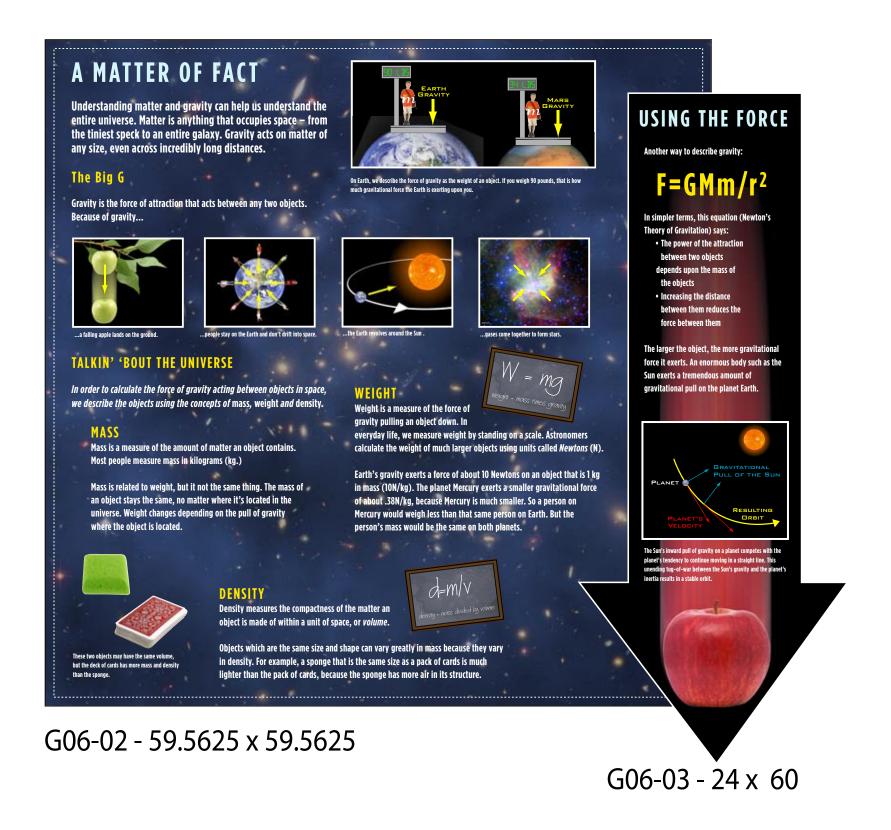
Date:

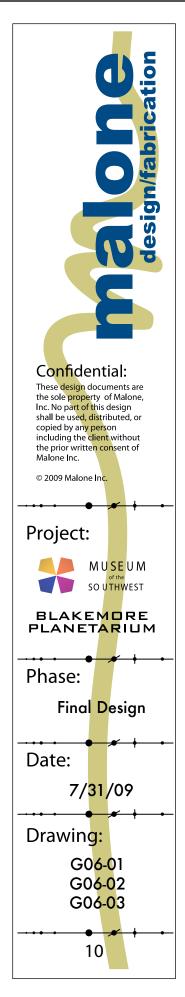
May 6t<mark>h, 2</mark>009

Drawing:

Exhibits 6, 7 & 8
Color Elevation

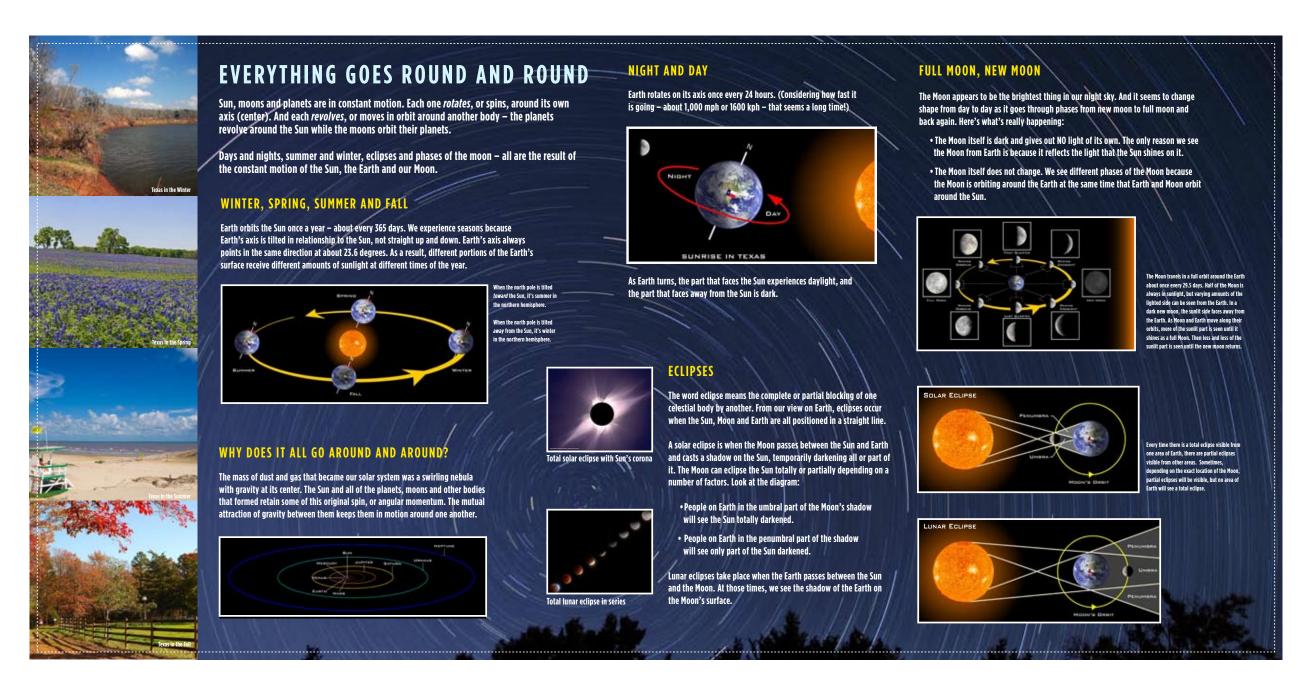
G06-01 - Dimensional Title - 3" letter height



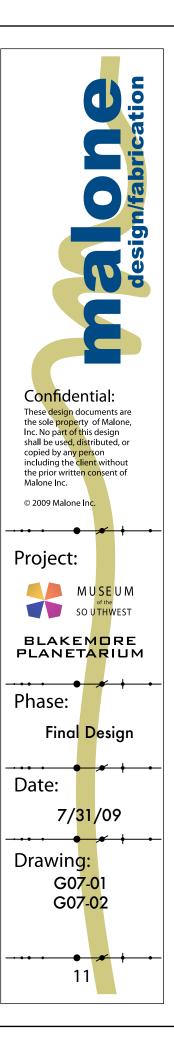


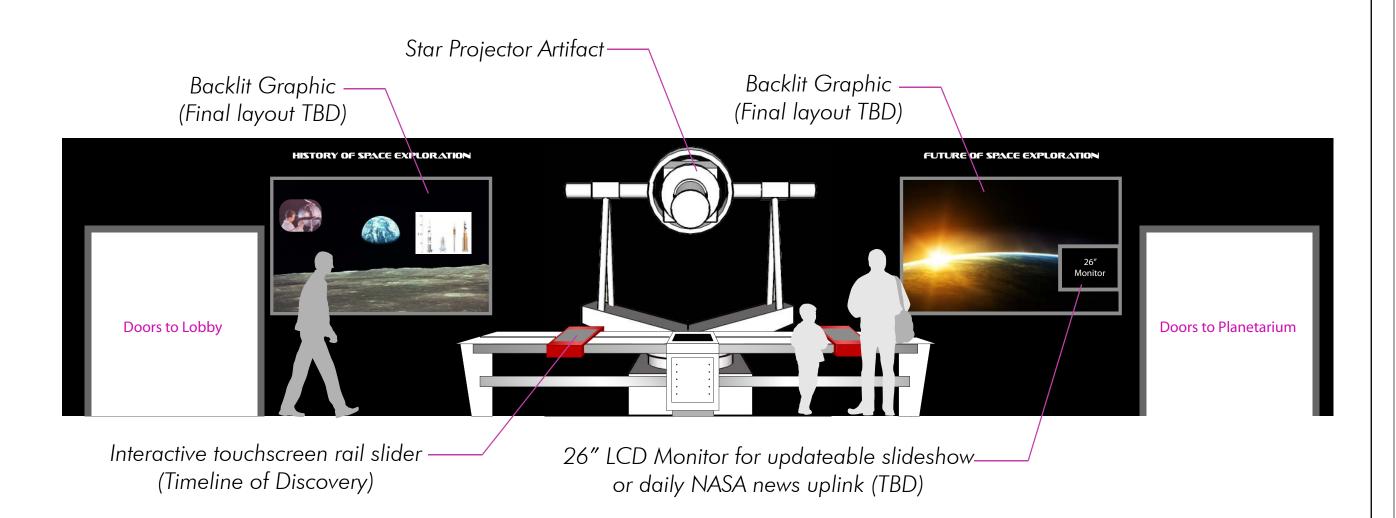
AROUND AND AROUND

G07-01 - Dimensional Title - 3" letter height



G07-02 - 119.5625 x 59.5625





Exhibits 9 & 10 - Timeline of Discovery and Space Exploration



Confidential:

These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc.

© 2009 Malone Inc

Project:



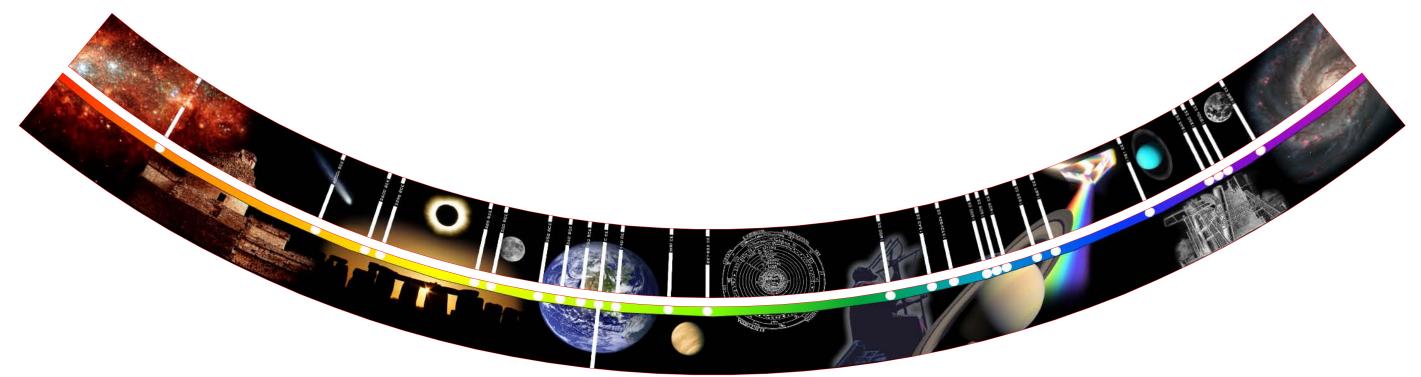
BLAKEMORE PLANETARIUM

Date:

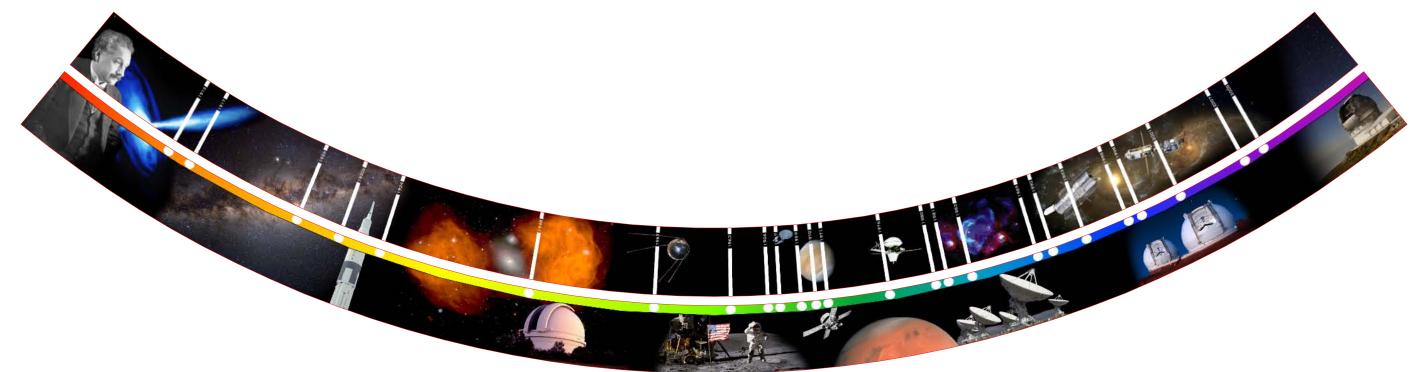
May 6t<mark>h, 2</mark>009

Drawing:

Exhibits 9 & 10 Color Elevation



G09-01 - Left Timeline Reader Rail



G09-02 - Right Timeline Reader Rail

THE HISTORY OF SPACE EXPLORATION

For thousands of years, people have looked with wonder and curiosity to the heavens. Early astronomers used observation and measurement, mathematics and telescopes to create a remarkably sound picture of the cosmos.

When people finally gained the technology to escape Earth's gravity and launch equipment— and then themselves—into space, the Age of Space Exploration began.



amounts of very hot gases that are

expelled through an exhaust nozzle at the hottom of the rocket. The force is

enough to lift the vehicle off the ground.

LEAVING EARTH IS ROCKET SCIENCE!

Visiting space requires the power to lift a heavy spacecraft off the ground and then to quickly create the speed to move beyond Earth's gravity. Before space travel could take place, exhaust-propelled rockets had to be perfected.

The Chinese developed the first rockets in the 1500s to propel military weapons and fireworks, but the modern technology did not emerge until the 20th century. In 1926, American Robert Goddard launched the world's first liquid-fueled rocket. His research laid the groundwork for German, Soviet and American scientists to develop rocket-propelled space vehicles.



multi-stage rocket uses two or more stages, each of which carries its own engines and fuel. By discarding the stages as they run out of fuel, the spacecraft becomes lighter and the remaining stages an more easily propel the vehicle.

THE RACE FOR SPACE

During the 1950s and 1960s, competition between the United States and the Soviet Union fueled the rapid development of space exploration. The two countries battled to be the first to put a satellite, and then a person, into space; to have the first astronaut in orbit; to take the first spacewalk; and to be the first on the Moon.

In October of 1957, the Soviets stunned American scientists by launching the first artificial satellite—Sputnik 1—into orbit around the Earth. Four months later, the United States successfully launched its own satellite, Explorer 1.



Millions of people watched on television as

astronaut Neil A. Armstrong stepped onto the

Moon's surface and said, "That's one small step for a man, one giant leap for mankind."

n 1961. Yuri Gagarin of the Soviet Union became the first human being to orbit the Earth. The United States followed in 1962 vhen John Glenn Jr. orbited the Earth in the



MAN ON THE MOON

"Houston, Tranquility Base here. The Eagle has landed." So American astronaut Neil A. Armstrong announced the landing of the first manned spacecraft on the Moon on July 20, 1969.

The Apollo missions that led to the first moon landing began in 1967. The successful Apollo 11 was launched by a three-stage Saturn V rocket, still one of the largest and most powerful launch vehicles ever operated.



UNMANNED SPACE PROBES

In the late 1950s and 1960s. Americans began sending unmanned satellites into space for surveillance and navigation – and to journey to other planets. The first human-made object reached another planet in 1962, when Mariner 2 passed within 22.000 miles of Venus. Unmanned space probes continue to be critically important to space exploration.





nave flown a total of over 120 manned missions into space. or carry out research. The Shuttles also provide



Before 1981 when the first space shuttle was launched, rockets were used once and jettisoned during the mission. Space shuttles were designed to be reusable – winged rocket planes that could fly multiple manned missions and land like an airplane on ordinary airfields. The more cost-effective space shuttles make regular space travel possible.



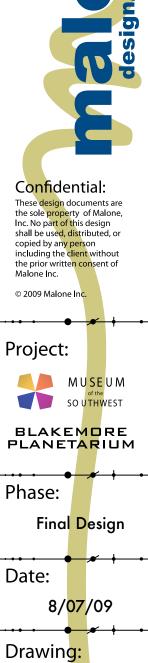
Night launch of the final lunar landing mission, Apollo 17, from Kennedy Space

It took three days for Apollo 11 to reach orbit around the Moon. Then, Armstrong and Edwin F. Aldrin Jr. entered the Lunar Module to make the Moon-landing, while astronaut Michael Collin remained in orbit in the

Between 1969 and 1972, twelve other astronauts walked on the moon in six separate Apollo missions.







G10-01

25

G10-01 - 89.5 x 59.5625

INTO THE FUTURE

The present and future of space exploration is an international endeavor. Dozens of countries pool knowledge and resources to continually expand our knowledge of the universe around us.

The video monitor to your right provides up-to-date information on current and planned NASA missions.

SPACE STATIONS: LIVING IN SPACE

Astronauts have lived for a few weeks to more than a year in space stations orbiting the Earth. Both Americans and Soviets operated space stations (Salyut and Skylab) throughout the 1970s. From 1986 to 1996, Russian space station Mir welcomed astronauts from many countries.

Starting in 1998, America, Russia and 14 other nations began working together to build the International Space Station (ISS). Portions of the station are being delivered piece by piece to the "building-site" 220 miles (354 km) above the Earth.







The completed International Space Station will be 240 feet (73 m) long with a living area equal to the cabin size of two 747 jets. When completed in 2011, it will carry up to seven astronauts who will live and

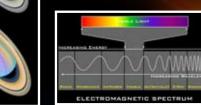
TELESCOPES: LOOKING INTO SPACE

......

Telescopes bring the vastness of the universe into closer view, allowing us to see and record planets, stars and galaxies at an astonishing level of detail. They collect data from light in the visible spectrum as well as X-ray, infrared, ultraviolet, microwave and radio wavelengths, including detecting phenomena that we can't see at all with the naked eye.

Most optical research telescopes are reflective, using mirrors to reflect and focus visible light and make distant objects appear much closer and therefore larger. Increasingly larger mirrors or honeycombs of mirror have expanded the reach of optical telescopes to distant

Saturn viewed at different wavelengths



o waves, which have the longest waveler

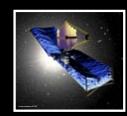


ers of telescopes, like the Very Large Array in AZ (above), connected by computers can capture and integrate ever more detailed images from space.

SPACE TELESCOPES

Positioned beyond Earth's atmosphere, space telescopes record very high quality images and can also detect electromagnetic wavelengths not visible on Earth.

The Hubble Space Telescope was carried into orbit in 1990, 347 miles (559 km) above the Earth. Peering far into the cosmos, it has documented thousands of new galaxies and produced some of the most astonishing and beautiful images we have of space.



The Hubble's successor, the James Webb (Next Generation) telescope, will carry a mirror ten times igger than Hubble's. It will be tuned for infrared engths, enabling it to find the oldest galaxies and look inside dust clouds where stars are forming.

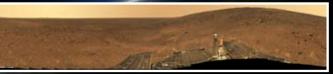
......





LANDERS AND DISCOVERS

Unmanned satellites and probes journey into space to collect information impossible to get in any other way. Probes have visited all the planets in our Solar System, as well as the moons and asteroid belts.





The Exploration Rovers have landed on Mars. documenting its surface and providing evidence for liquid water in



Voyager 2, launched in 1977, reached Uranus and Neptune and is now traveling beyond the Solar System, carrying images and sounds from Earth.



The New Horizons robotic probe is headed for the dwarf planet Pluto and then will explore the Kuiper Belt, the band of ice and rock that forms the outer edge of our solar system. Notch for Slideshow Moniter



Confidential:

These design documents are the sole property of Malone, Inc. No part of this design shall be used, distributed, or copied by any person including the client without the prior written consent of Malone Inc.

© 2009 Malone Inc.





BLAKEMORE PLANETARIUM

Phase:

Final Design

Date:

8/07/09

Drawing: G10-02

26

G10-02 - 89.5 x 59.5625