

CONVEYOR RESUME

Design, Manufacturing & Supply
of Material Handling Solutions

From the Pit to the Stockpile



Construction Aggregate #1



– Overland, Interplant Conveyors and **12,800 Ton Live Surge**

- 42" BW x 230' Long Overland Conveyor at **1,100 TPH (Primary Crushed Rock -14")**
- 42" BW x 735' Long Overland Conveyor at **1,100 TPH (Primary Crushed Rock -14")** with a **Custom Tail Take-Up System**
- 42" BW x 450' Long Overland Conveyor at **1,100 TPH (Primary Crushed Rock -14")** with a **Custom Tail Take-Up System**
- 42" BW x 185' Long Custom Surge Pile Stacker at **1,100 TPH (Primary Crushed Rock -14")**
- with a **Wrap Drive** and **Gravity Take-Up**
 - 48" Deep Custom Truss
 - Dual Walkway
 - Dual Power Travel (2) at 3 HP = 6 HP
 - Includes custom head stair to access secondary surge pile conveyor
- 42" BW x 102' Long Custom Surge Pile Conveyor at **1,100 TPH (Primary Crushed Rock -14")**
 - **8' Deep Truss with 40' Cantilever to Feed Surge Pile**
- 42" BW x 558' Long **Surge Reclaim Conveyor** at **1,100 TPH (Primary Crushed Rock -14")** with a **Custom Tail Take-Up System**
 - Includes (6) Feed Points along Conveyor Line
- Plus and additional **(26) Interplant Transfer Conveyors**
- Total of **+ 4,600'** of Conveyors

Construction Aggregate #1



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Construction Aggregate #1



- 42" BW x 185' Long Surge Stacker
 - 1,100 TPH of -14" Primary Crushed Stone
 - Dual Drive (2) at 50 HP = 100 HP
 - Wrap Drive
 - Dual Walkway with access to a Secondary Raised Conveyor
 - Gravity Take-Up
 - Dual Power Travel (2) at 3 HP = 6 HP
 - Feeds either a 12,800 Ton Live Surge Pile or a Secondary Elevated Surge Conveyor

Construction Aggregate #1



- Overland Conveyors
 - +1,400' of 42" BW Conveyors
 - 1,100 TPH of -14" Primary Crushed Stone
 - Gravity Take-Up and Custom Tail Take-Ups
 - Conveyor #2 goes under haul road
 - Combination of Channel Frame and Truss



Construction Aggregate #1



Construction Aggregate #1

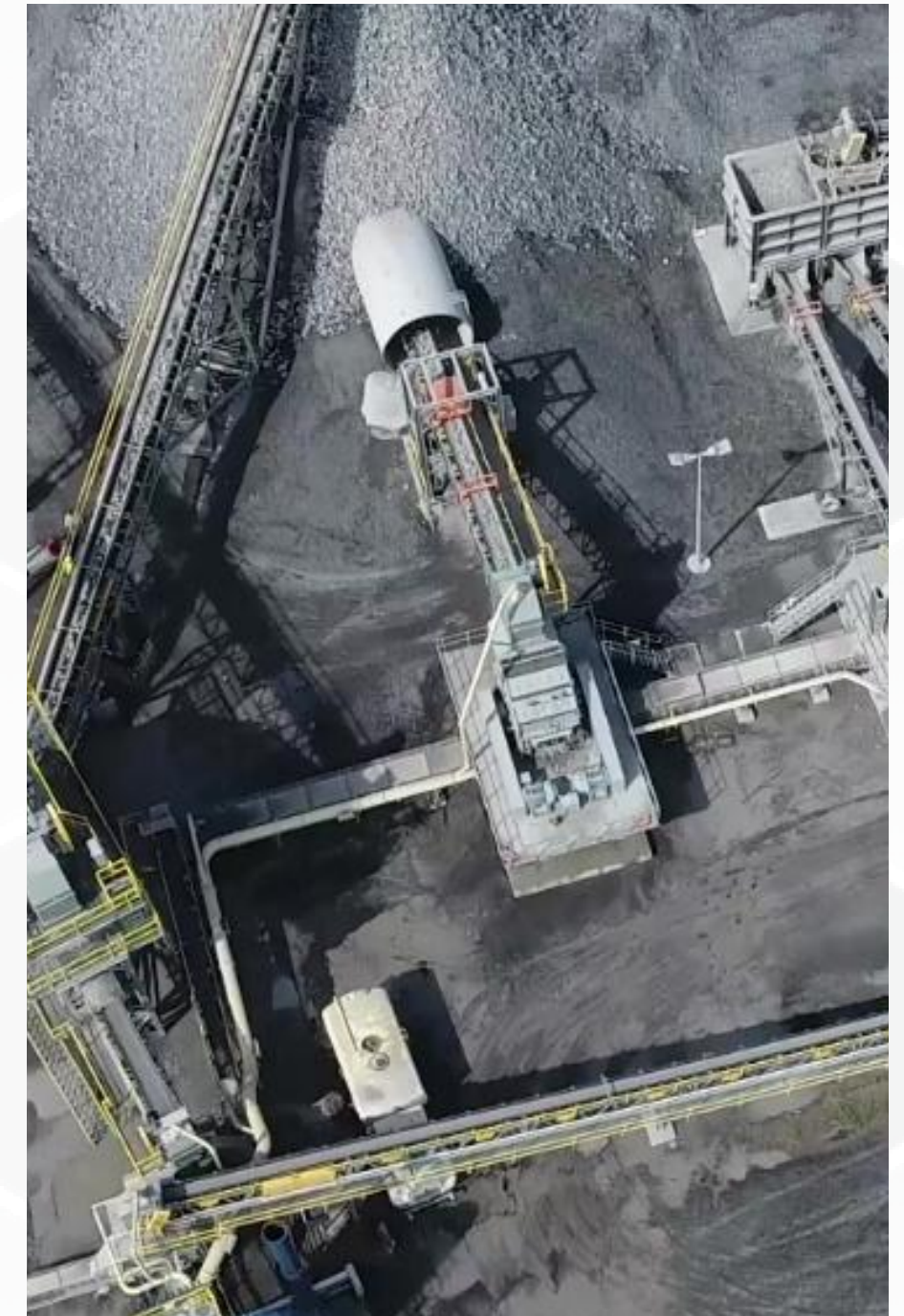


Construction Aggregate #2



- Total of 4,565' of Conveyors – Overland, Interplant and Product Stackers
- (30+) Custom Interplant Conveyors, (2) Thor Telescopic Stackers & (6) Radial Stackers
- Overland Conveyors
 - 36" BW x 450' Long at **850 TPH (Primary Crushed Rock -14")**
 - 36" BW x 1,185' Long at **850 TPH (Primary Crushed Rock -14")** with **Custom Tail Take-Up System**
 - 36" BW x 585' Long at **850 TPH (Primary Crushed Rock -14")** with **Custom Tail Take-Up System**
 - 36" BW x 1,235' Long at **850 TPH (Primary Crushed Rock -14")**
 - Includes a **150' Span within a Gallery Truss** to allow for Pipeline Right of Way

Construction Aggregate #2



Construction Aggregate #2



Construction Aggregate #2



Construction Aggregate #2



Construction Aggregate #2



- 48" BW x 400' Long Conveyor with:
 - **(4) Collecting Points**
 - (1) Screen
 - (1) Horizontal Shaft Impactor Crushers
 - (2) Cone Crushers
 - **1,400 TPH**
 - **Dual Drive (2) @ 50 HP = 100 HP**
 - Dust Collection Pickup Points
 - Covered Skirtboard

Construction Aggregate #2



- Gravity Take-Ups
 - Each gravity take-up is specifically designed to the application
 - **Fully guarded** truss on top and sides where walkway exist
 - **Guarding can be easily removed** with minimal tools for ease of maintenance
 - **Each weight box is designed to hold 57's stone for the counterweight, a fill line is provided to hit the exact weight needed with a +/- tolerance to allow for future growth**

Construction Aggregate #2



- Overland Conveyor System
 - **3,455' of Conveyor**
 - Up To 1,000 TPH – Average 850 TPH
 - 36" BW x 450' Long
 - 36" BW x 1,185' Long
 - Tail Take-Up
 - 36" BW x 585' Long
 - Tail Take-Up
 - 36" BW x 1,235' Long
 - 150' Gallery Truss

Construction Aggregate #2



- Overland Conveyor System
 - Minimal infrastructure required
 - Concrete needed only at the head and tail of conveyor
 - **Intermediate sections can be set up on railroad ties**
 - **Inside handrail or pull chord standard**

Construction Aggregate #2



- Custom Tail Take-Ups
 - For when head clearance is an issue use this gravity take-up designed at the tail of the conveyor
 - Weight box is specifically designed for each application
 - **Low maintenance cable and sheave**
 - Provides constant tension on belt
 - **Keeps weight box low to grade for extra safety**
 - **Fully guarded** runway and tower
 - Has been installed on conveyors between 500' and 1,800 long

Construction Aggregate #2



- Elevated Overland System
 - **Long spans for minimal concrete**
 - Walkway full length of conveyor
 - Intermediate stair / maintenance tower for access mid way along conveyor line
 - **Spans can be adjusted based on belt width and capacity anywhere from 30' up to +200'**

Construction Aggregate & Lime #3

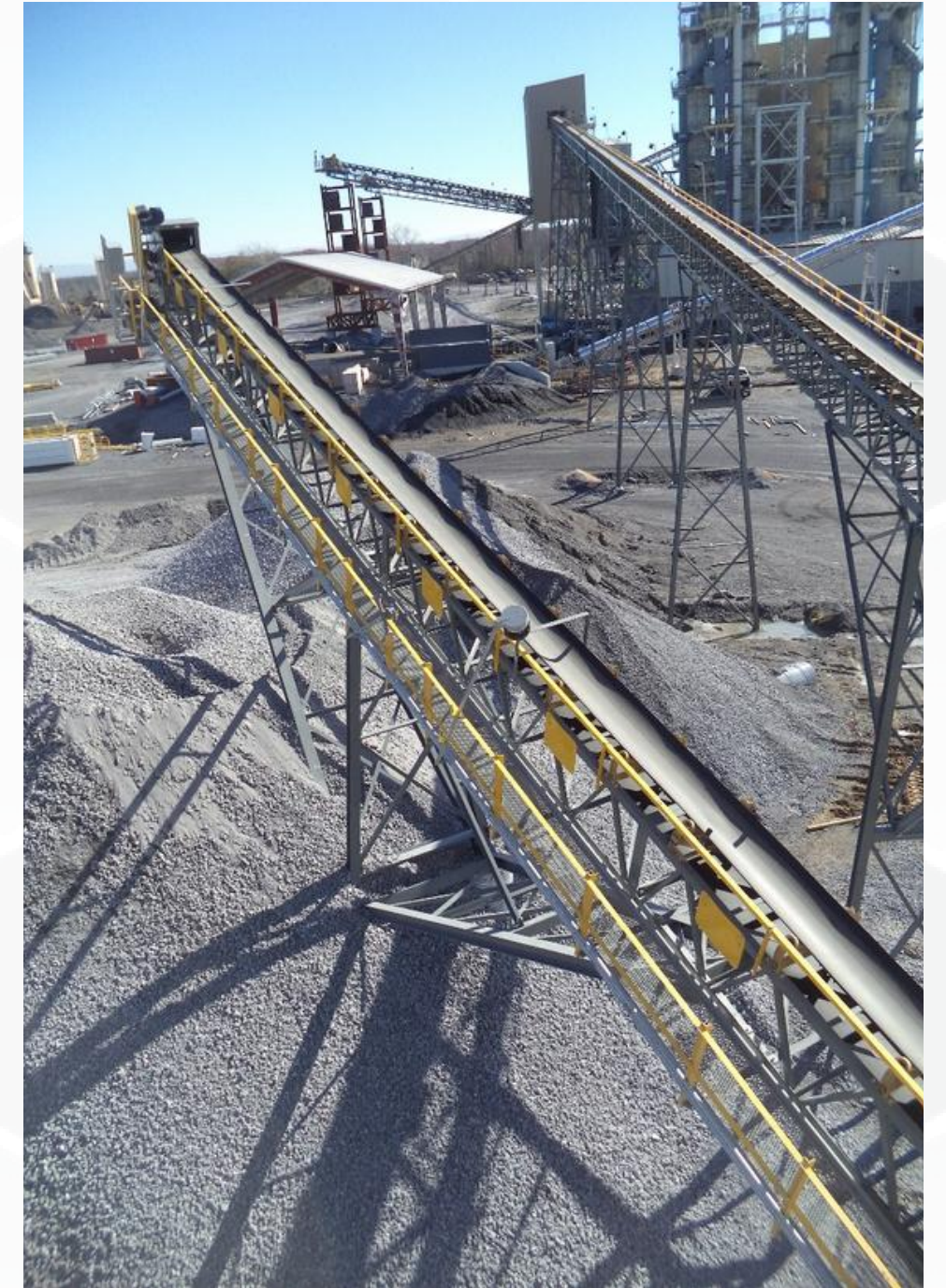


- Total of 4,966' of Interplant Conveyors consisting of (21) Unique Conveyor Designs
- (14) Conveyors handle Construction Aggregate and (7) Handle Lime

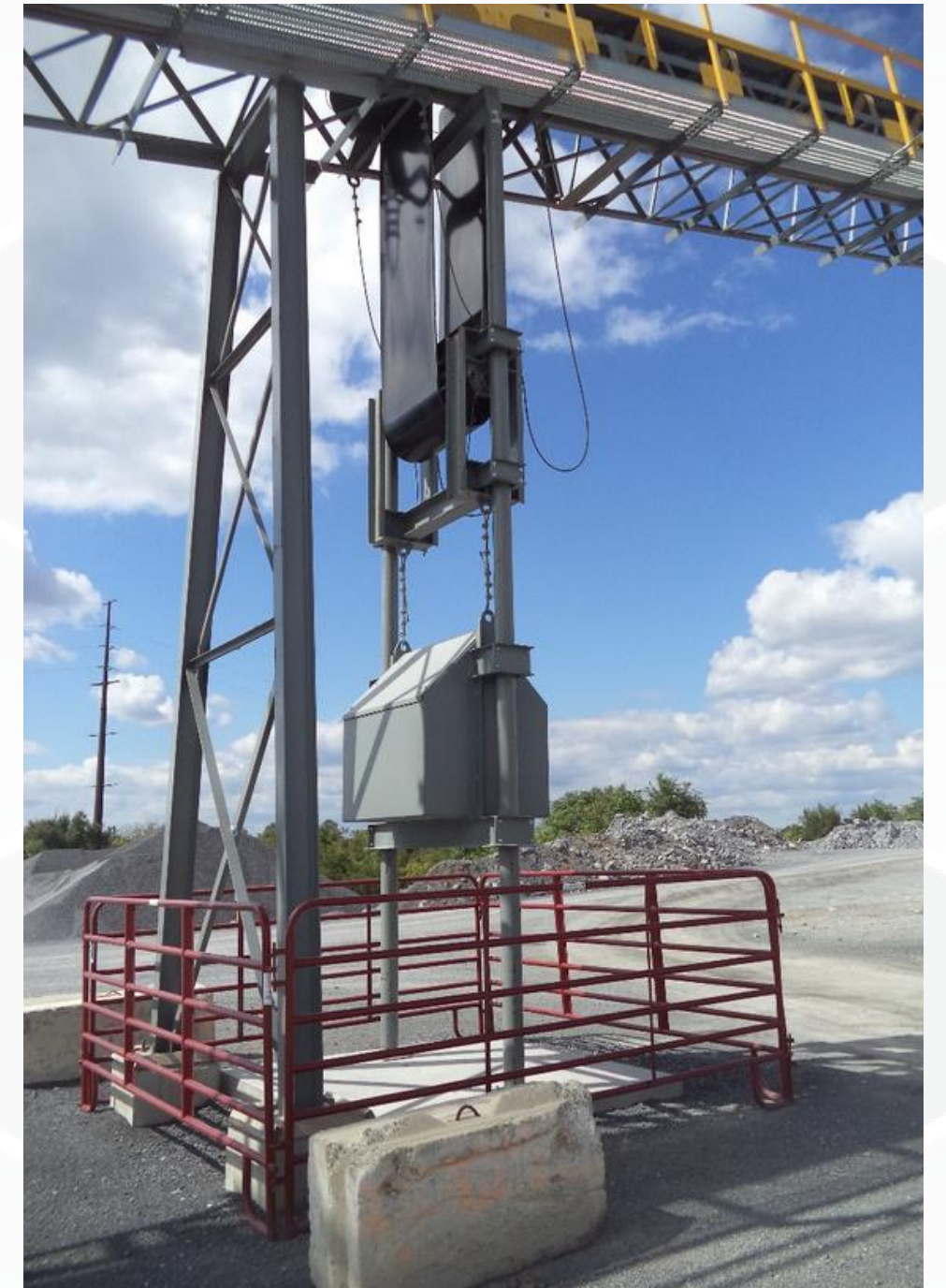
- 24" to 36" BW
- 25' Long up to 614' Long
- 80 TPH up to 800 TPH
- 55 PCF (lime) to 100 PCF (limestone)
- Spans from 30' **up to 120'**
- **Support heights up to 90'**
- **Drive Sizes up to 100 HP**



Construction Aggregate & Lime #3



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Construction Aggregate & Lime #3



Construction Aggregate #4



– Rail Loadout System at 3,500 TPH

- 54" BW x 300' Long Surge Bin Feed
 - Dual 200 HP Drives = 400 HP Installed



Construction Aggregate #4



Construction Aggregate & Coal Barge Unloading #5



– Barge Unloading System at 3,200 TPH – Coal and Limestone

- 60" BW Belt Feeder
- (2) 54" BW x 150' Long Transfer Conveyors
- (1) 54" BW x 150' Radial Stacker



Construction Aggregate & Coal Barge Unloading #5



Sand and Gravel #6



– (1) Belt Feeder – 36" BW x 18' Long at 400 TPH

- Belt Feeder sits under a custom 80 Ton Live Truck Dump Hopper

– (1) Custom Conveyor 1,635' Long with ~200' Gallery Truss over Wetlands

- Custom Tail Take-Up System

– (1) Thor Telescopic Radial Stacker



Sand and Gravel #6



- Custom Tail Take-Up
 - Weight box is specifically designed for each application
 - **Low maintenance cable and sheave**
 - Provides constant tension on belt
 - **Keeps weight box low to grade for extra safety**
 - **Fully guarded** runway and tower
- **Belting Considerations**
 - Due to permitting restrictions, requiring a 24" BW conveyor extra thought was taken into consideration or belting
 - Troughability, PIW, Ply of Belting and overall tensions
 - Ended up with a Single Ply 440 Belt

Sand and Gravel #6

- Gallery Truss – Spanning Wetlands
 - **200' Long Gallery Truss**
 - **Helical Pile Design** for Concrete
- Environmental Conditions
 - **Due to environmental conditions many belt scrapers were installed on this conveyor – nothing can fall into the wetland area**
 - (1) Tungsten Carbide Tipped Primary Scraper
 - (1) Tungsten Carbide Tipped Secondary Scraper
 - (2) Urethane Flat Bladed Secondary Scrapers
 - (1) Motorized Brush Cleaner with Nylon Bristles
 - (1) V-Plow
 - (1) Beater Bar Return Idler



Sand and Gravel #6



- Supports and Spans
 - Due to site conditions supports needed to be minimized and thus spans needed to be increased
 - As the conveyor reached closer to the wetland area clay seams were very prevalent
 - **Solution to clay seams** were a unique style of concrete design utilizing **helical piles** driven deep into the clay to provide proper bearing
 - **Spans are approximately 100' while in the clay seam with 6' deep truss design**



Sand and Gravel #6



Construction Aggregate #7



– 30" BW x 150' Long
Radial Stacker

- 30 HP
- 450 TPH
- **Galvanized Structure**
- **Wrap Around Head and Tail Platform**
- **Dual Power Travel (2) at 3 HP = 6 HP**



Construction Aggregate #8



– 42" BW x 590' Long Out of Pit Conveyor

- 600 TPH of Primary Crushed Rock –12"
- Dual Drive (2) at 75 HP = 150 HP
- **Supports utilizing multiple benches** along the quarry face
- Max distance between concrete piers approximately 100'



Construction Aggregate #8

