

Gaston County

Gaston County Board of Commissioners www.gastongov.com

Sheriff's Office

Board Action

File #: 17-382

Commissioner Hovis - Sheriff's Office - To Authorize Implementation of Gaston County Jail Capital Needs Projects to Commence Prior to Jail Expansion Project AS AMENDED to Increase the Body Scanner Estimate by \$20,000 - Total Project Estimate - \$674,000

STAFF CONTACT

Sheriff Alan Cloninger - Sheriff's Office - 704-869-6860

BUDGET IMPACT

N/A

BUDGET ORDINANCE IMPACT

N/A

BACKGROUND

Due to the overcrowding issue and age of the Gaston County Jail, a jail expansion study was performed by Stewart - Cooper - Newell Architects of Gastonia, NC to determine current and future needs of the jail. The Sheriff's Office has prioritized jail capital projects as outlined in the study (pg. 1-3 #8) that require implementation prior to the jail expansion. The estimated cost of these projects is \$654,000. This estimate is not a replacement for competitive bids that must be secured.

With this Board Action, the Sheriff's Office seeks approval from the Board as to which capital projects can be implemented prior to the jail expansion and a timeframe for when the projects can commence.

(Continued on Page 2)

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	i. Buff, Clerk t he Board of C					hereby cer	tify that the	above is	true and correct co	py of action
NO.	DATE	М1	M2	Brown	Fraley	Grant	Hovis	Keigher	Philiped Worley	/ Vote
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File #: 17-382

Commissioner Hovis - Sheriff's Office - To Authorize Implementation of Gaston County Jail Capital Needs Projects to Commence Prior to Jail Expansion Project AS AMENDED to Increase the Body Scanner Estimate by \$20,000 - Total Project Estimate - \$674,000 Page 2

At the 11/14/2017 Regular Meeting, the Board of Commissioners, by unanimous consent, increased the Body Scanner appropriation to \$189,000 / 5-Year Warranty and Authorized the Implementation of Gaston County Jail Capital Needs Projects to Commence Prior to Jail Expansion Project AS AMENDED - Project Estimate of \$674,000.

The Finance Director shall make the appropriate amendment to the Budget Change Request to reflect the amended appropriation.

POLICY IMPACT

N/A

ATTACHMENTS

Budget Change Request; Jail Expansion Study; Jail Capital Needs Priority List

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TO: _	Earl Mat	hers		_COUNTY	MANAGER		
			RIFF'S OFFICE	_			
FROM: _	Dept. #		partment Name				
Ī	Department Direct	ctor's Name	3	Date			
TYPE OF REQUES	ST:	······························					
Line Item T	ransfer Within Depa	rtment & Fund	i		Line Item Transfer I	Between Funds	*
Project Tra	nsfer Within Departn	nent & Fund		Х	Additional Appropri	iation of Funds '	r
Line Item T	ransfer Between De	partments*		<u>:</u>	* Requires resolution	n by the Board o	<u>f Commissioners</u>
			A	CCOUNT N	UMBER		AMOUNT
ACCOUN	NT DESCRIPTION		Fund - Function - Dept - Division - Object - Project			l v	Vhole Dollars Only
(As it app	ears in the budget)	xxx - xx - xxxx - xxxx - xxxxx - xxxxxx				(See Note Below)
FUND BALANCE-APPROPRIATED			010-99-9900-0000-490000				{674,000}
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FURN/EQUIP < \$			010-01-4265-426				54,000
FURN/EQUIP > \$			010-01-4265-426				460,000
REPAIRS & MAIN	NTENANCE		010-01-4265-4260-530023-18133				160,000
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JUSTIFICATION FO	OR REQUEST:	· · · · · · · · · · · · · · · · · · ·					
Due to the overcr		d age of the	e Gaston County	Jail a iail	expansion study	was nerform	ned by Stewart –
Cooper – Newell	_	_	_	-	•		•
prioritized jail cap	ital projects as o	utlined in tl	ne study (pg. 1-3	#8) that re	quire implement	ation prior to	the jail expansion.
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compressor,not w			•		•		Commissioners at its
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Note: Decreases in expenditures & increases in revenue accounts require brackets. Increases in expenditures & decreases in revenue do not require brackets. Please note that transfers between funds require interfund transfer accounts.



Gaston County Jail Expansion

September 18, 2017 Project No. 1570



Stewart · Cooper · Newell · Architects

719 east second ave. gastonia, nc 28054 phone: 704.865.6311 fax: 704.865.0046

2016 sumler street ste. 202 columbia, sc 29201 phone: 803.765.9011 fax: 803.765.2011



GASTON COUNTY JAIL EXPANSION STUDY

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1 - Summary

SUMMARY

This report presents the findings of a study performed for Gaston County detailing the facility needs of the Gaston County Jail. The study was undertaken by Stewart – Cooper – Newell Architects, Gastonia, NC. It was performed as a collaborative effort between the county staff, the sheriff and staff and the architect. Much data, on-site dialog, analysis, and facility reviews allowed for the proper sharing of information that allows this document to accurately reflect the current and future needs of the Gaston County Jail Facility.

As is detailed and expanded upon in the following sections, Gaston County has and is continuing to experience growth. The growth indicated in past historical data has required county facilities to grow and change to meet the demands of the population, which has put pressure on both its physical facilities and its personnel.

The population of Gaston County as a whole may increase at a rate significantly higher than the historical trends; depending on the effect growth from Charlotte has over the upcoming 20 years.

The current 176,758 square foot facility has served the county well for almost 20 years; but, because of the current demands, it is no longer able to provide the space that the jail requires. This report outlines the specific space needs and the recommendations of how best to meet these needs. The following data summarizes the details that follow.

The study of the facility along with the understanding of budget restraints has led to the conclusion that the projects should be broken into three phases which vary from the previous 2006 study. It is extremely important to understand that jails are very expensive to build and over the long term cost much more to operate and maintain. The initial construction needs to be as durable and maintenance free as possible. They must be able to function 24 hours a day, every day, for years.

The Three Phases are as follows:

- Phase I Install 30, 2-man cells.
 Install 12, 1-man cells in 'A' Block
 Total added Bed Count 72
- Phase II Expansion of Kitchen, Storage, Medical, Classrooms, Property Storage, Dining Space, Locker Rooms and Administrative Area for additional staff.
- Phase III Addition of 224 additional cells adding 440 beds plus associated utilities and staff areas.

PHASE 1 – Description of the work

The installation of 30- two man cells, the installation of 12one man cells in "A" Block, all to be located in the 4 first floor recreational areas. The cells will be 2" thick concrete filled panel components as manufactured by TRUSSBILT. There is only one manufacturer of this type of cell.

The cells components will be brought in thru an opening cut in the exterior wall below the fresh air louvers. An access door and frame will be anchored in the opening to allow staff access to plumbing, mechanical, electrical, sprinkler and security equipment for future maintenance. Due to the age of all of the Security Electronic Systems, it will be replaced.

The pod showers and toilet doors should be replaced and the walls and the ceilings need to be redone. In addition, new plumbing, mechanical, electrical and fire protection will need to be installed.

General capital improvements will be needed as well.

Preliminary Conceptual Budget for the addition of 30-two bed cells and 12 single bed cells.

This budget was derived from information and cost obtained from various detention equipment manufacturers and suppliers. This is not intended to be a substitute for the Completion of Construction Documents and Competitive bids received from General Contractors, Sub-contractors and Detention Equipment Sub-Contractors.

DESCRIPTION	COST
1. Site Work	\$ 60,000.00
2. Exterior Doors	\$ 108,000.00
3. Cells	\$2,618,000.00
4. Electronics/Security	\$475,000.00
5. Walls Above Cells	\$66,250.00
6. Ceilings	\$10,000.00
7. Shower and Toilet Doors	\$160,000.00
8. Miscellaneous Capital needs	\$732,000.00
9. Plumbing, Mechanical, Electrical	\$1,995,000.00
& Fire Protection	
10. Security Gate Revision	<u>\$250,000.00</u>
Sub-total	\$6,474,250.00
Contingency 10%	<u>\$647,425.00</u>
Sub-total	\$7,121,675.00
Fees 8%	<u>\$569,734.00</u>
TOTAL CONCEPTUAL BUDGET	\$7,691,409.00

GASTON COUNTY JAIL EXPANSION STUDY

1.	Conceptual Budget Breakdown: Site Work	\$60,000.00		A. Walls (Metal Studs @ 16" O.C., Security Mesh - 2 sides, 5/8" Type 'X' Gyp. BD 2 Sides ,5 1/2"	\$26,520.00
	A. Grading B. Building Protection			insulation) B. Caulk & Paint	\$40,000.00
	C. Fencing			b. Caulk & Failt	Ψ+0,000.00
	D. Gravel		6.	Ceilings	\$10,000.00
	E. Clean-up			· ·	
	F. Grassing		7.	Shower & Toilet Door	\$160,000.00
				A. Toilet & Shower door	
2.	Exterior Doors	\$108,000.00		replacement (all Stainless Steel)	
	A. Mech. Room Exterior doors and	\$32,000.00	(8)	Misc. Needs	\$732,000.00
	panels, Stainless Steel & frame	*** ***	_	A. Kitchen Equipment	\$95,000.00
	B. Hardware (Stainless Steel)	\$20,000.00		B. Food Carts	\$92,000.00
	C. Labor	\$12,000.00		C. Hot water Heater	\$90,000.00
	D. Cut Precast OPG.	\$12,000.00		D. Security window in Pod control	\$54,000.00
	E. SS Flashing	\$8,000.00		replacement	
	F. Anchors	\$8,000.00		E. Door operating Pod control stations	\$32,000.00
3.	Cells	\$2,618,000.00		F. Shower resurfacing	\$160,000.00
	A. Cells (42) & Decks & Stairs	2,242,000.00		G. Back-up Air Compressor, Piping,	\$10,000.00
	B. Security Caulking	\$40,000.00		Controls	
	C. Painting	\$120,000.00			
	D. Equipment Rental	\$120,000.00		H. Securepass Body Scanner	\$199,000.00
	E. Concrete & Pumping	\$80,000.00	_	D.14 E. 0 ED	£4 005 000 00
	F. Welding & Finishing	\$16,000.00	9.	P.M.E & FP	\$1,995,000.00 \$200.000.00
				A. Plumbing	\$300,000.00
4.	Electronics	\$475,200.00		B. Mechanical	\$900,000.00
	A. Complete upgrade for Security			C. Electrical	\$575,500.00 \$420.000.00
	and Electronics			D. Fire Protection	\$120,000.00
5.	Wall above cells	\$66,520.00		E. Smoke Removal	\$100,000.00
			10	.Security Gate	\$250,000.00
				A. Sliding Gate with Overhead track	•

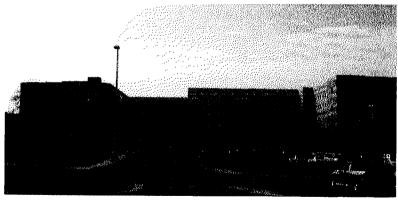
PHASE 2 - Description of the work

Due to financial restraints, it will be necessary to build Phase II at some date in the future.

The work of Phase II will be an expansion of first floor areas which will include the Kitchen, Walk-in Cooler and Freezer, Warehouse space, Commissary, Staff dining and support areas.

On the second floor the medical space would be substantially expanded to accommodate both present and future population growth. The administration has expanded and with a growth in jail population would necessarily need additional space for staff offices, training classrooms, conference room and staff support space.

Phase II should be constructed prior expanding the jail population in Phase III and would be added to the North side of the building.



North Elevation

Preliminary Conceptual Budget

1st Floor Area –	18,600 S.F.
2 nd Floor Area –	17,200 S.F.

Total Area: 35,800 S.F.

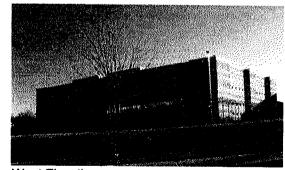
Projected Cost per S.F.: \$375.00/SF

Preliminary Conceptual Budget: \$13,425,000.00

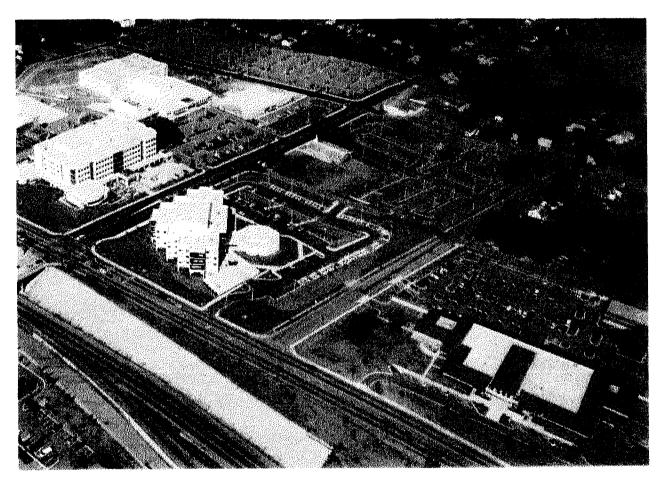
PHASE 3 - Gaston County Jail Expansion

The actual size and the number of cells and necessary support spaces have not been determined at the time of this study. The actual need will be based on future growth projections and programming.

The 2006 study projected a need for 224 additional cells adding 440 beds plus associated utilities and staff areas. This would be added to the west side of the existing building.



West Elevation

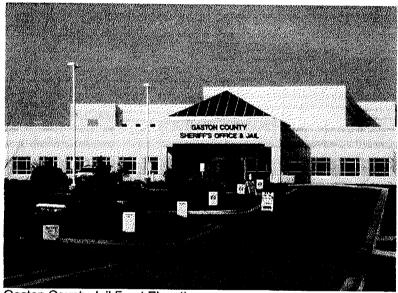




September 18, 2017

2- Facility Assessment

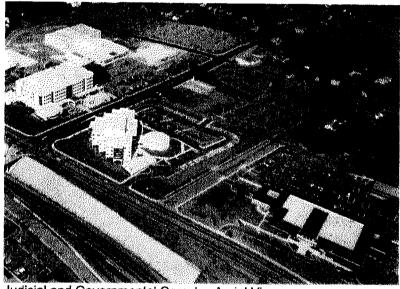
INTRODUCTION



Gaston County Jail Front Elevation

The Gaston County Jail is part of the Judicial and Governmental Complex that was completed in 1999. The Sheriff's Office contains all the administrative functions needed for the department to function efficiently at the time it was completed and for approximately 20 years in the future depending on population growth.

The existing facility was reviewed as part of this study. This review was to ascertain how the existing facility can be renovated and enlarged to provide additional housing for detainees within the existing structure.

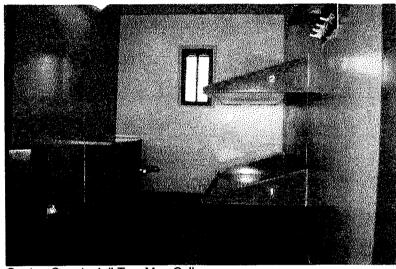


Judicial and Governmental Complex Aerial View

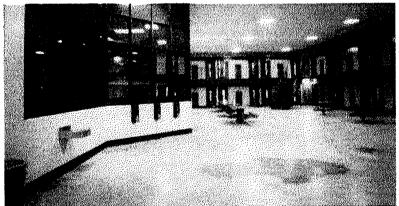
The architects did an in-depth study of the facility and the following is the result of that analysis.

The Jail is equipped with full security services including: CCTV, Touch Screen Computers, Card Key Access, PIN Systems, UPS and Emergency Generators.

It was determined that due to the age of all the components and the addition of 42 new cells it would be necessary to upgrade all the existing electronic security equipment.



Gaston County Jail Two Man Cell



Gaston County Jail Dayroom

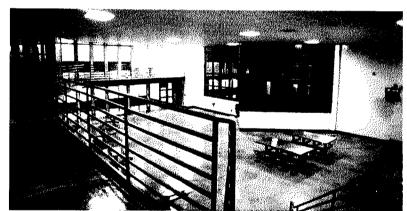
The Jail was designed with 200, 2-man cells and 8, 1-man cells for a total of 408 beds that is divided into several "pods" that are designed to support both direct and indirect supervision. The pods are designed so that an inmate can be placed in a pod and never removed from it except for court appearances.

The study provides an insight into how the 4 existing interior first level recreation areas can be utilized to accommodate 42 additional cells. Of the 42, 30 will be 2-man cell and 12 will be 1-man cells in "A: Block. The first floor of the jail is a slab on grade and has the ability to support the cells.

The second level recreation areas cannot be utilized with cells but could provide additional space for dormitory or classrooms due to structural restraints.

The kitchen facility prepares and cooks three meals a day for all inmates at both the Jail and the adjacent jail annex. The jail annex has 8, 20-man dorms for a total of 160 beds and 16, 1-man cells and is currently used to house female detainees. The total number of beds for both facilities is 584 beds. Operational capacity (90%) is 526 beds.

Expansion of the Kitchen, Warehousing, Staff Facilities will need to be included in a future addition. Medical unit and administration would be included in a future expansion as well.



Gaston County Jail Mezzanine View to Dayroom



Gaston County Jail Kitchen

CURRENT SPACE ISSUES

In meetings with the County Staff and Sheriffs Office, the architect identified space requirements, which were based on the present need. The following information was obtained through meetings with the county and detention officials and Stewart — Cooper — Newell Architects. Space requirements were developed for additional cells, medical facilities, kitchen facilities and other relevant spaces. The most immediate needs are:

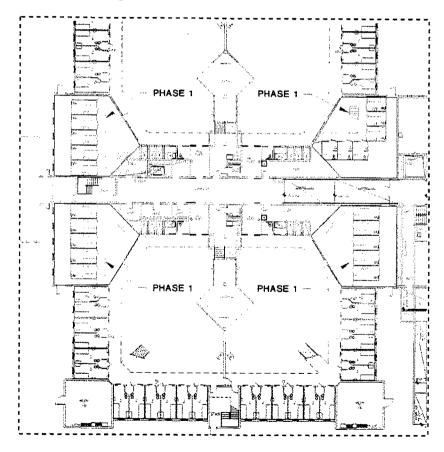
- Cells Additional cells are needed. Jail Pod size and configuration was reviewed and produced the following conclusions:
 - 1. Existing dayrooms and cell size are adequate.
 - 2. Recreation yards (8 one per pod) are not used. Consider converting this enclosed outdoor space to interior space with heating/air. Options for use of this space: cells, classrooms, video arraignment if pod is designated for First Appearance, storage, property storage and inmate property storage.
 - 3. Delete recreation yards from future pods if possible. Review current codes concerning outdoor recreation requirements.
 - 4. Mirror classification of existing jail. Female inmates to remain in jail annex.
 - 5. Review design of showers, toilets and doors.
 - Delete drywall from pod ceilings. Sprinklers ruin drywall; consider exposed concrete or other finishes.

- Classroom Space classes are currently held in the library.
- Kitchen Space Currently 1,400 meals are prepared daily. Additional freezer, storage, cart and assembly line space is required. At least twice the storage space required for the kitchen area.
- Medical Ward Space Isolation cells are currently used for HIV, sick or injured.
- Inmate Property Storage Property is currently stored in several locations instead of one central location. Change existing weight room to storage. Provide new weight room in administrative addition.
- First Appearance Space Large detainee area for video arraignment needed.
- Visitation Space A place for lawyers to meet with detainees with a pass-thru for signing papers is needed.
- Secure Parking Existing secure parking is where jail administrative expansion will take place. Gate should be changed to a sliding gate due to problems with existing overhead gate. Relocate fence for new, larger secure parking lot.
- Loading Bays Two existing loading bays are sufficient. Relocate in Phase II.
- Trash Pick-up Currently pick-up is twice a week. Expansion may require daily pick-up.
- Jail Annex Access Need better access to the jail annex. Expansion of Administrative space should connect the jail and jail annex.
- Commissary Provide additional store commissary space. Keep commissary adjacent to loading docks.

SPACE ISSUES ANALYSIS

The analysis of the existing space and need as well as budget restraints indicated three phase approach for the detention center. Phase I is illustrated.

Phase I provides 42 additional cells (72 beds) by renovating existing recreation yards and auxiliary spaces required by the 42 additional cells including the following:



SPACE ISSUES ANALYSIS

The analysis of the existing space produced a three phase approach for the detention center. Phase II and III is described.

Phase II provides additional administration:

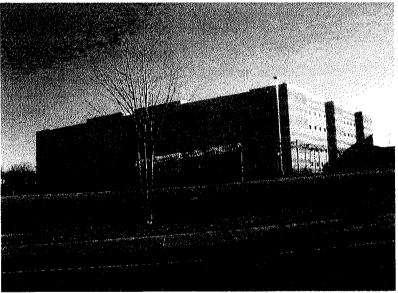
- Expanded Medical Unit
- Classrooms
- Additional kitchen area for freezer, storage, cart storage and assembly line space - addition on the north elevation.
- · Additional inmate property storage.
- Additional store box/commissary space.
- Additional support staff space. New support staff will require additional office space, parking space, weight room, dining space, and locker room space.

Phase II would expand the 2 floor existing building on the north side with a total of 35,800 SF.

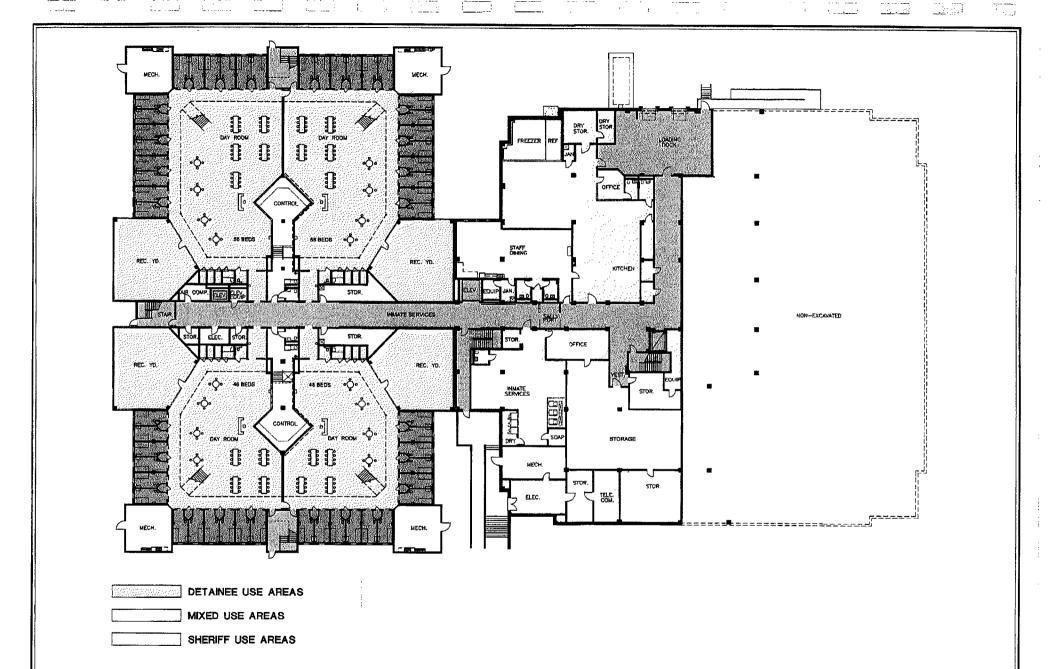


North Elevation

Phase III provides 224 additional cells (440 beds) in approximately 140,000 SF detention housing addition on the west side of the facility and adds auxiliary space for storage, administration, medical and kitchen services, evidence and inmate storage on the north side of the facility. Site renovations will include additional secure parking, fencing and sliding gates.

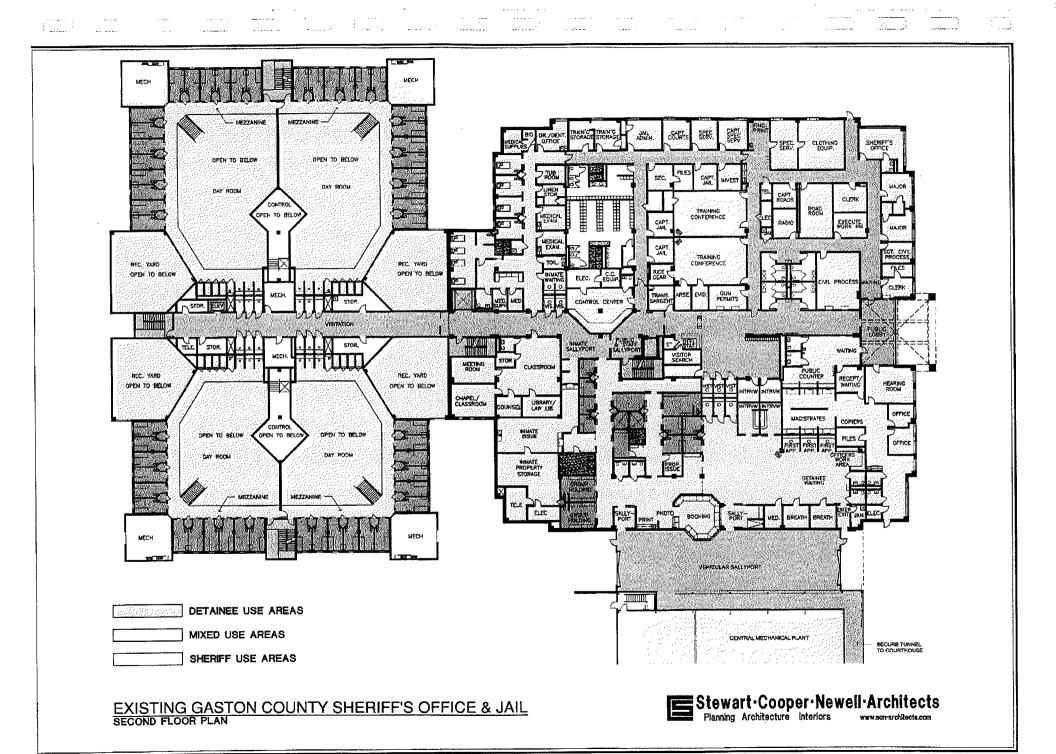


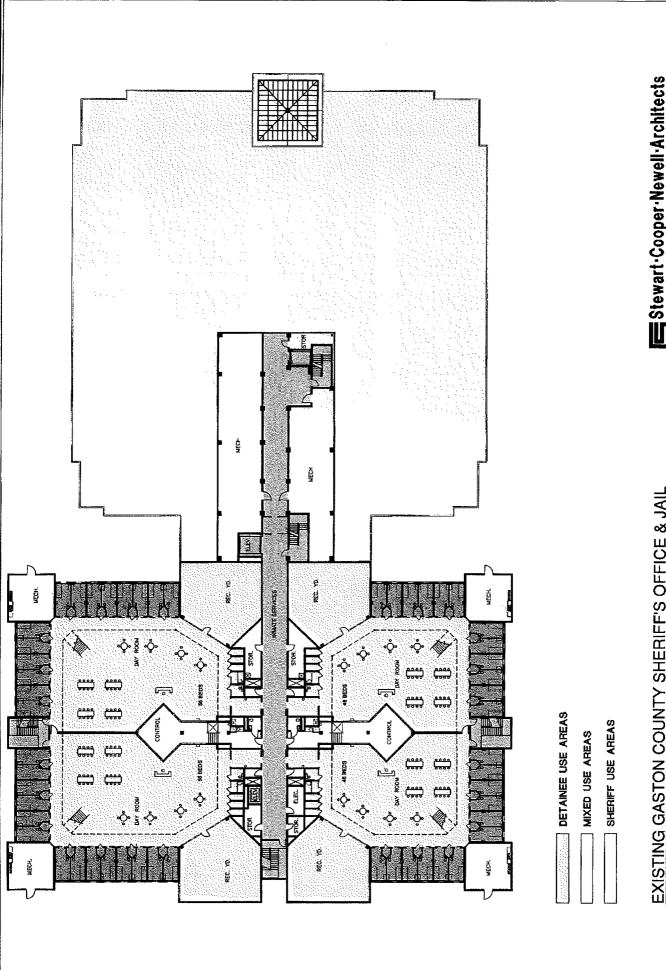
West Elevation



EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL FIRST FLOOR PLAN







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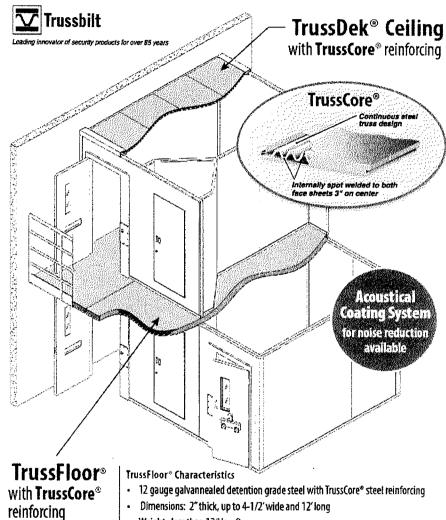
EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL THRID FLOOR PLAN

HECH EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL FOURTH FLOOR PLAN REC YD, OPEN TO BELOW REC YD. OPEN TO BELOW MECH OPEN TO BELOW DAY ROOM OPEN TO BELOW DAY ROOM MEZZANINE -CONTROL CONTROL OPEN TO BELOW DETAINEE USE AREAS SHERIFF USE AREAS MECH MIXED USE AREAS DAY ROOM OPEN TO BELOW DAY ROOM Tree. PEC 10. OPEN TO BELOW PEC YO. ¥50¥

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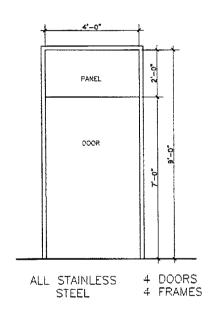
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GASTON COUNTY JAIL EXPANSION STUDY

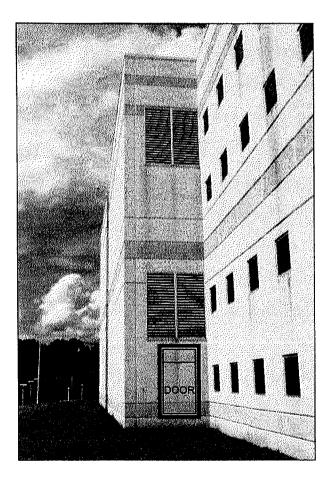


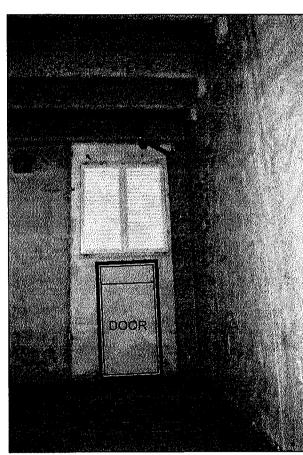


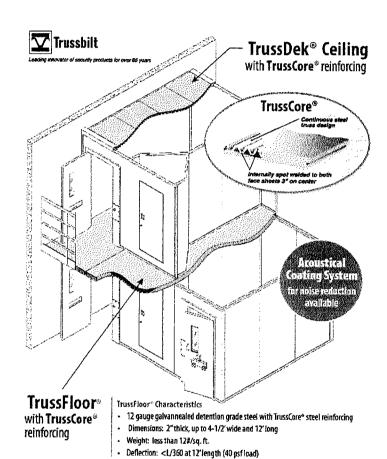
- Weight: less than 12#/sq.ft.
- Deflection: <L/360 at 12' length (40 psfload)

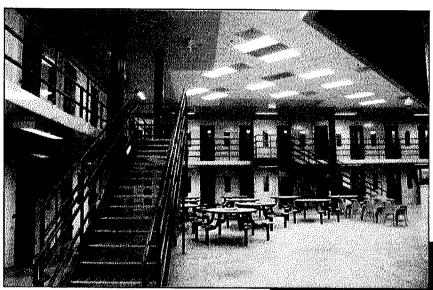


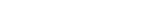






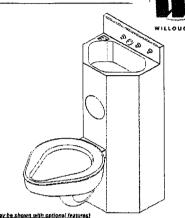








1546 Series 15" Wide Combination Units



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Esseign. To specify a wall aution 15" combination time wan company many for profit plants. National 15" GPP, dual term, innovament, material value standage public butters, has clear values for tigal drub, teller waste awardson, 3" PPT waste coupling, hydraulic fauth code, hadvistic commentary conference and other individual sometiments and other control conference and other individual sometiments.

te the following Williaustricy MixtA Number ECW-1546-C-ON-BP-16-PML2-PPB-68-TWB-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

15" combination lavatory/toilet shall be: Willoughby Model No. EC__-1546 (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard tollet shall include:

- Elongaled toilet bowl with contoured seal
- Integral crevice-free self-draining flushing rim with positive afterfill - Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum
- 2" seal and pass a 2-1/8" ball - Road blast finish bowl interior
- Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavalory shall include:

- . Multi-sided how! 12-3/4" x 8-1/4" x 5" deep
- Stainless steet hubbler/filler
- Fast drain with air vent - Elbow waste (1-1/2" F.I.P.)
- Self-draining spap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fireresistant material.

Anchoring shall be by standard 4-point system. Ø1/2* threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting; cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

visit our website at www.willoughby-ind.com 5105 West 78th Street • Indianapolis IN, 46268 (317) 875-0830 • Fax. (317) 875-0837 • (800) 428-4065



MODEL NUMBER AND OPTIONS:

- 1.) Tallet Waste Location: 12.) Weste Coupling for (TWE) Tollet Waste Extension: FCW terror Correct LI PPA Popumate Prish Buttons Connecting to 3" PVC Connecting to 3" Cost from ☐ PBH Uganure-resistant Push Buttons U TWC3C Flace Outlet □ EPB Electronic Push Buttens CL EPBR Upgature-resistant Electronic Push Bultons CL TWC4C 2.) Base Medel Number: Connecting to 4° Cost from 1 1546 15 Lavroiler Combination □ PZPB Plaza Electronic Push Buttons
- 3.) Tollet Orientation Anales Let Angles Right
- Floor Woste (1-1/2" F.P.) 4.) Fixture Mountmo: (Standard) Integral P-Trap (1-22" F.I.P.) Gt-Flacr (SEW Only) II ON On-Floor Lavaton: Waste Extension 5.) Bubbler Selection: of ov Lavatery Overflow U SP Peral BubblerFilter (Standard)
 U SC Code BubblerFilter (w/ Mouth Guard) Cambined Waste w/a Crean-our □ CW2 Combined Waste, w. Diesn-au-
- U BPh Ligature-resistant Buotilen Filter G LW/1 Thru-Wall Extension, 'P'-Trap Penal Lay, Fifter Thru-Viali Extension & Clean-out
- 6.) Flush Valve GPF (Must Specify): J GWC LI 1 18 GPE HET Gasketen Wasta Connector (Stansard on ECF) ⇒ 3.5 GPF (3" waste tupe required: J TWE Todat Wasie Extension a twa 3" Clean-out for (TWE) 7.) Lavatory Valve Selection: Flaer Outer Waste Cannection
- U. PSUI Stools Terro. Programatic Non-materion (1) TW6 4" Clean and for (TWF) PSL2 Dual Temp. Prountatio Non-metering - PC3 Pinned Clean-out Plug FVC-3" PML1 Single Temp, Pneumatic Metering
 PML2 Dust Temp, Pneumatic Motering J PC83 Piraed Chan-o-/ Plug Brass-3" Pinned Clean-out Plug PVC-4" U E1L1 Single Tamp. Electronic (Pick Control) U PC84
 U E1L2 Dual Tamp. Electronic (Pick Control) U W03 Pinned Class-out Plug Brass-F
- T MD3 Valva Macifold Ontione: U MA2 II MA3 U MA=

......

*(Reg. 110v power through ground fault interruptor (GFC) (reseptado)

- Marup: Roser Toket Overflow Prevenier, Reg. (FV) (Must Use Electronic Lavatory & Flush Varyesk: 21 T4x Auto Reset Total Evention Revortion, Reg. (FV)

 1 WUCC-3010 UPneutronic UMMSI: 21 Electronic Totler Overlaw Proventor, Reg. (EPV) U ET4 Electronic Toilet Overlaw Preventer Req. (ERV) LL Fy Programs From Valve (Includes Puch Button)

13 I Other Ontions:

- U EPV Electronic Flush Valve (Plex Control)
 U EPVP Electronic Flush Valve et (P2PB) (Plex Control) U TRE Tollet Fush Extension U FVT Flush Valve Connection
- LL HS Hinged Write Plantic Sout (Not recommenced for Max. Security/Leagure-resistant use: No Cover U RTH_Recossed Tissue Holder
 U L U L U C C RF C R
- D ISH Integral Shell C ☐ TB1_Single Toombrush Holder
- U TB2 Dual Topinbrush Holde
- U TH1_Single Towel Hook J THZ Buar Tower Hock
- מנ זני DC GRF DR DC Decorator Color (Fixture externor only - White) LJ TF24H Hara-wined Transformer 110VAC to 24VAC
- D. TEDAP. Pluc-in Transformer, 110VAC to 24VAC. HPS High Poists Seat Vent Golla, 6-1:2"x 9-1/2" (13-3/4 in: free erro) u ve
- OLDUF D'RF DR Wad Templato (Viril Sloove (Regumes Accessible Chase) 3" Tollet P'-Trap (J.5 GPF Only)
- 4" Clean-out Hook, 4" PVC Plus EL SK Liganura-cesistant Toiler Skirt. (CN) On-Floor Cets
 - U TSC Tollat Shipping Cover ⊈ Dithe∈

Approved For Manufacturing By: Company: Wall Thickness:__ Wall Type: VERIET ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOWSER RESERVES THE ROUT TO MAKE CHANGE BY DESIGN AND DIMENSIONS WITHOUT FORMAL NOTHER AND WITHOUT ROWALL NOTHER AND WITHOUT REPORTS OF THE ROWALL NOTHER AND WITHOUT ROWALL NOTHER AND WITHOUT REPORTS OF THE ROWALL NOTHER AND WITHOUT ROWALL NOTHER A





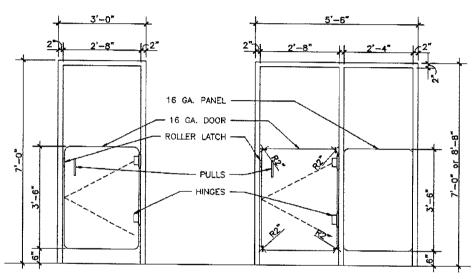
PLANTSY MONEY ON THE BETTON visit our website at www.willoughby-ind.com

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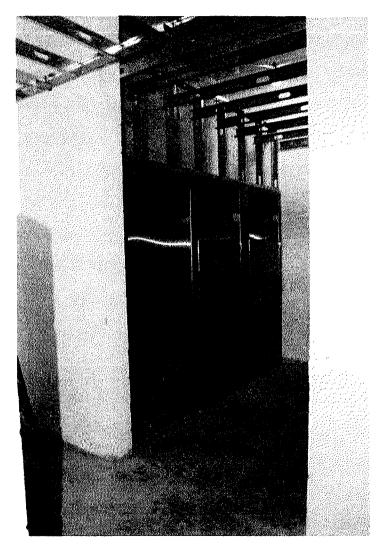
NEW TOILET DOORS



SHOWER DOOR
H.M. FRAME/DOOR EDGES
WELD-GRIND SMOOTH
ALL STAINLESS STEEL



GASTON COUNTY JAIL EXPANSION STUDY





5 – Possible Shower Changes

Willoughby Industries - Security Products

WRS-BF-FA-2HD Series Front Mounted Recessed Handicap **Shower Panel** w/(2) Fixed Shower Heads



Recommended Specifications

Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads shall be-Willoughby Model No. WRS-BF-FA-2HD (Select from model number and options list on next page)

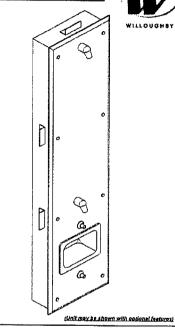
Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:

3 Rev. 7/2017

- Shower valve (Select from Valve Selection options list) - (2) (NPS) non-adjustable penal shower heads

Shower panel shall attach to mounting frame with security screws. Unit requires no chase area for installation and maintenance.



To specify fixture and eccessories, use the Model Number and Options page. Europe: To specify a Freet Naturaled. Ancessed Handison Brooker Pand volls Fined Storyer hands 4th single leaning Petrumater materiar vollete International, standard becomes put outcom storcard 2.6 GPM file rate, standard sNPGI snower heads, at the thermostatic mixing value, and

ice the leticulary Witchelboy Lledel Number; WRS-EF-FA-2HD-PML1-IRAZ-FPB-2-SGPM-NPS-TMV-RD

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S5-19

MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

From Mounted, Recessed Handlosp Shower Panel wi(2) Fixed Stower Heads

2.) Valve Selection:

No Value

PAIL1
 Sings Tamp, Pneumatic Malaring
 PAIL2
 Dua: Tamp, Pneumatic Malaring
 E111
 Sings Tamp, Dectronic (Pick Control)*

C E11.2 Due: Temp. Electron:c (Pick Consrot) Valve Manifold Option:

Proutratic or Sectronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section \$5 for further information

3.1 Push Sutton Selection Paramatic or Electronic Vetres Only:

PPB Procuration Push Buttons: PZPE Piezo Puen Buttors

4.) Flow Rates:

S5-20

5.) Electronic Controls" (Must Use Electronic Push Button): ☐ W/USC-2200 CI WUSC-2400 Ti Posuconic

6.1 Shower Head Satestion:

Non-tidjustable Penal Shower Heads (Standard)

Aps Adjustable Penal Shower Incads

7.) Options:

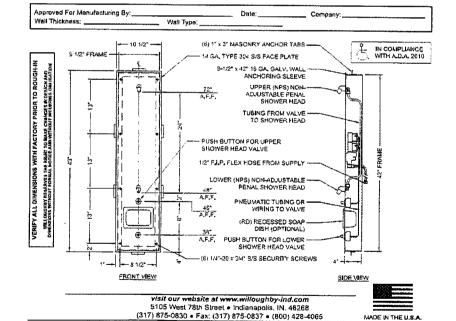
TMV In-line Thermospic Mixing Valve

TF24H Haranked Transformer, 110VAC to 24VAC

TF24P Plugen Transformer, 110VAC to 24VAC* Recessed Nounted Soap Dish

- so Surface Mounted Spap Disn

"(Ruc. 1107 pawer through ground faux Manupter (GFCI) receptade)



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MODEL NUMBER AND OPTIONS: 1,) Base Model Number 5.) Valve Selection: 9.) Shower Head Selection: Unitized Cabinet Showers: O NV Ne Velce NPS Non-edjustable Penal Shower Head (Standard)

APS Adjustable Penal Shower Head 30°L x 30°W Cabinet Shower | PML1 □ US-3030 Single Temp. Pneumatic Metering 32*Lx 32*W Cabinal Shower | PML2 38*Lx 35*W Cabinal Shower | E1L1 shoet Showers | E1L2 Dual Tomp. Presumable Matering Single Temp. Electronic (Pick Control) 🗓 С\$Н Ligatura-resistant Shower Haad Dual Temp. Electronic (Pick Centrol)* Pressure-Batancing Moring Valve Knackdow Cabloet Showers: ☐ K5-3030 ☐ PBV Ethow waste for Cabinet Shower (Z FIP) ☐ EB0 32"L x 32"W Cebinet Shower 36"L x 36"W Cabinet Shower Temp/Pressure-Balancing Mixing Vetvo (Standard) Integral P-Trap Cabinat Shower Drain (Z FiP) Balancing Mixing Valve No-hish Cabinat Shower Drain (25) Left Hand Preumetic or Electronic Valves Only. Right Hard (See the Manifold Option Page at the end of 11.) Oplions: Catalog Section SS for further infor Ventilation Griffe (Specify Free Area and Location; Standard Grille Dimensions; B-3/4" x 8-3/4" erith 15-3/4 (n° open area) □ acs Back Chase G.) Push Button Selection: Closure Panels Right Chase Proumatic or Electronic Vidyos Only (Specify Dimensions and Locations Preumetic Push Buttons Stoping Top Closure 4.) Cabinet Side Exterior Finish Schoduler Ligature-resistant Push Buttons _ usp__ Modesty Door (Not ADA-Compliant) (Based on Chase Wall Orientation Electronic Push Butlons' L Hinged Left
R Hinged Right Ligature-resistant Electronic Push Buttons Pieza Push Buttons* see the Options Pages at the end of Cuttain Red Daying Receptor Release Towel Hook For (BGS) Back Chase: Polished Front, Left Side, & Right Side Polished Front & Right Side Polished Front & Left Side 2.5 GPM (Standard) Recessed Mountain Soon Dish Palished Front only CLISCOM 2-Cim Floor Mounting For (LCS) Lan Chase: Folished Front, Back Side, & Right Side 8.) Electronic Controls* □ B1 ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* Poisshed Front & Right Sido (Must Use Electronic Push Button); TF24P Plug-ip Transformer, 110VAC to 24VAC* Polished From only ☐ WUSC-2200 ☐ WUSC-2400 For (RCS) Right Chase: Perished Front, Back Side, & Left Side "(Req. 110V power through ground fault interrupter Posshed Front & Left Side ∃ c₃ Polished Front only Approved For Manufacturing By: Date: Wall Thickness: Wall Type: - I' GA GO 100 RESISTANT FLODS OFFICE CONTRIBER OF CAR SONO AND PROPERTY LANGUAGE CHASE MOUNTED VALVE PRONE visit our website at www.willoughby-ind.com 5105 West 78th Street . Indianapolis, IN. 46268 (317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065 MADE IN THE U.S.A.

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Options page.

use the following Wisburgmy Asciel Number: US-3636-L-BCS-A4-PML1-PPB-2.5GPM-NP3-EBD-RD

To specify Knockdown Cabinet Shower: Select the "KS"

model number from the list on the Model Number and



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fire resistant material.

non-slip glass blast finish.

Standard equipment shall include:

extending to chase wall

- (NPS) non-adjustable penal shower head, mounted in

Unit requires chase area for installation and maintenance.

Underside of shower floor shall be sound deadened with

front corner panel (plumbed through the side

mullion, under shower floor, and to chase wall)

(EBD) integral strainer drain with elbow waste (2" F.I.P.)

S5-25

S5-26

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Cigsure Penels

Curtain For

Storing Ton Crosure Modesty Door (Not ADA-Complant)

☐ R Hinges Right

Release Tavel Hook

Surface Mounted Span Dish

"iReq. 110V power mrough ground fault intorrupter

Threshold Anchors
In-line Themsostate Mixing Van-s

O 510

TI GBC

(Specify Dynamicons and Locations)

Grab Bar Crossure Plate Recessed Mounted Soap Dish (Standard)

mounted L-Shaped Grap Bar Less 24" Vertically-mounted Grap Bar

Willoughby Industries - Security Products

Front Access Handicap **Cabinet Shower**



Recommended Specifications

Front Access Handicap Cabinet Shower shall be: Willoughby Model No. ___ S- 3636-HC-FA (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be all-welded (unitized models only, not applicable to knockdown models),exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (ICD) Inside caulk drain (2") with removable strainer - (GB3318) 18" x 33" Horizontally-mounted
- L-shaped grab har · (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat

Unit requires no chase area for installation and maintenance. Shower valve and shower head shall be mounted on removable access panel secured with security screws.

Underside of shower floor shall be sound deadened with fire resistant material.

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Please provide shower finish schedule upon ordering. (Unit may be shown with optional features)

To apacify fixture and accessories, use the Model Number and Options page. Example: To upocify a unitiged did" a 35° Front Access Haird ap Cabines Showar with light bursel brown head punch subceyvaning, pollotical front, sangle wrop, pollotical mellething cables, standard front sangle wrop, pollotical mellething cables, standard from the period between male and haird head Prezistrower, standard leftide cable offer, and recreased mountain seaso dish

Use the fellowing Wilcomb. Mode: Number. US-3636-HC-FA-L-83-PML1-MAZ-PPS-2.5GPM-NPS-FX-ICD-RD

Unit requires 2" recess in floor.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

MODEL NUMBER AND OPTIONS:

Littature-rotustani Diverter Vaca- Tr CP

Two Single Temp Pneumasc

Ideterna Valves in Lieu of

Valve Manifold Option: 10.1 Drain Selection Unitized Hendican Front Arress Preumatic or Electronic Values Only Instan Could Cobiner Shower Brain (21) Cabinet Shower:

US-1636-HC-FA 36'U x 36'V Cabinet Shower (See the Manifold Option Page at the end of Catalog Section S5 for further information Knackdown Handloop From Access | MAG 11.i Cotlans: Vergitation Grille (Specify Free Area and CANADA AGENTA SETT SET CENTRAL SECOND S.) Diverter Value; Location: Standard Gritte Olimonylous 6-34" x 6-3/4" with 15-3/4 (n) Open blea)

Left Hand [] PML144A2 3.) Cabinet Side Exterior Finish Schodule: 5.) Push Button Selection: Praumanc or Electronic Valvos Only (Based on Chase Wall Octoorston: see the Options Payes at the end of Preumetic Pasti Buttons Ligaturo-resistant Pusts Buttons Electronic Push Buttons

war Hand/Push Button/Valve Orientation: 🔘 DVLR

Catalog Section (as diagram)) For (I.Cs) Left Walt:

B2 Poisses Front & Right Side

B3 Poisses Front oray

Eor IRCS: Right Wall:

C2 Poliched Front & Laft Side C3 Poished Frant and

1.t Base Model Numbe

No Valve No views
Single Temp. Presentatio Matering
Dual Tomo, Procumatic Mesong
Stude Temp. Electronic (Pick Consol) □ FNu2 5 E1L2 Dual Tomo Electronic (Pick Control):

Rolandetic Navino Volve

Approved For Manufacturing By:

Wall Thickness: _

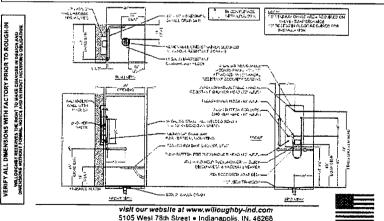
Pressure-Balancing Mixing Varue TempiPressure-Saturding Mixing Va Ligature-resistant TempiPressure-

T.) Flow Rates: TF24H Histo-weed Transformer, 110VAC to 24VAC* CL20 GPM LFSS Less Ford-up Staniers Steet Shower Sont #.) Electronic Controls: ☐ Presurence ☐ WASH

11 EPBH Ligature-resistant Fluctures Pr Piezo Push Suttons*

Not-edustrible Pistor Snover Head ≟ FX Hand Held Flexshower or Quick Concorned and Vacaum Brances Accustable Penal Shower Island

Ligature-resistant Shower Head (2) Fixed Shower Heads, Replaces (FX) Company: Walt Type:



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6 – Jail Floor Plans Phase I, II & III

Sheriff Alan Cloninger Gaston County



Jail Administration

Asst. Chief Darrell Griffin
Office # 704-869-6822
Main # 704-869-6800
Fax # 704-869-6819
P.O. Box 1578
425 Dr. Martin Luther King
Jr. Way
Gastonia, NC 28053

www.gastoncountysheriffsoffice.com

Date: October 17, 2017

MISC NEEDS Priority List Jail/Jail Annex

#1. Shower Resurfacing	\$160,000
#2. Securing windows in pods	\$ 54,000
#3. Food Carts	\$ 74,000
#4. Kitchen Equipment	\$ 95,000
#5. Body Scanner	\$ 169,000
#6. Back Up Air Compressor	\$ 10,000
#7. Hot Water Heater	\$ 60,000
#8. Door Opening Pod Control	\$ 32,000

Total \$654,000