

CITY ENGINEER'S DEPARTMENT
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WELLINGTON.

S P E C I F I C A T I O N

- For -

P R O P O S E D T H E A T R E

MANNERS STREET, WELLINGTON, NEW ZEALAND.

*Banking and insurance etc.
this premises. India Soudan Bazaar*

Mr. William Pitt F.R.V.I.A.
Architect,
476 Collins Street,
Melbourne

SPECIFICATION of work to be done and materials to be used in the erection of THEATRE, Manners Street, Wellington, New Zealand for the Opera House Co., Ltd., According to Plans, this Specification and Conditions of Contract attached, and to the entire satisfaction of the Architect.

Mr. William Pitt, F.R.V.I.A.,
476 Collins Street,
Melbourne.

or whom he may appoint.

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Contractors are requested to visit the site and ascertain for themselves the nature of the ground.

NOTICES.

Provide for giving all necessary notices, pay all fees and charges and comply with the By-laws of the local Council.

Provide for proper hoardings and covered ways for the safety of public and vehicular traffic and light same between the hours of sunset and sunrise . Make good the pavements, channels, etc., on the completion of the works to the satisfaction of the City Surveyor.

INSURANCE.

Provide for the insurance of the buildings in an approved office to the half of the amount of the contract price, the Policy to be lodged with the Proprietor.

WATER.

Provide for laying on water for usage throughout the Works and pay all fees.

DEBRIS.

Provide for clearing away all debris.

Cut and stop any gas, water and sewerage pipes that may be met with to the satisfaction of the Authorities.

OFFICE.

Provide office for Clerk of Works with desk, drawer and stool complete.

PRIME COSTS.

Wherever prime cost amounts are stated it is to be understood first cost at Warehouse, and no rebate or commission will be allowed. The Proprietors will have the right to purchase and deduct the amounts stipulated from the Contract price.

Remove all rubbish from time to time and on the completion of the contract.

CONVENIENCES.

Provide suitable conveniences for use of workmen, clean out from time to time and remove same on completion of works.

Before signing the contract, the Contractor is to deposit with the Architect a fully priced out Schedule of the Bill of Quantities, which are prepared by Messrs J.A.Wood & Sons, and the Contractor is to undertake to carry out all extra or additional work at the prices set forth in this Schedule.

EXCAVATOR.

Excavate to the depth shown on Plan in levelling off portion of the site; also for the basement under stage, lime-light tank and stairs. ✓

TRENCHES.

Excavate to the depths and widths shown on Plan for all foundation walls, piers, column bases, etc., part stepped where required and bottoms of trenches levelled off. Portion of the excavation to be re-filled and well rammed against walls. Excavate in a similar manner for all drains.

Provide for all necessary shoring, strutting,

Pump or bale out any water that may accumulate in the basement or trenches.

Provide for filling in under vestibule and W.C. block, up to floor level; also escapes with the best of excavated material, if approved, and to be well rolled and watered.

REINFORCED CEMENT CONCRETE. Fill in the trenches: column bases etc. to the sizes shown on drawings with cement concrete composed of 4 parts 2" broken metal, 2 parts shingle, 1 part coarse sand, 1 part Knight Bevan's or Anchor brand cement, gauged in a box, to be mixed on a wood platform, turned over twice dry and twice wet, shot into trenches from hod or barrow, laid in 12" layers and well rammed, and reinforce with No.10 expanded steel diamond mesh, bedded in the concrete 4" from the bottom of concrete bed, and lapped at joints.

Provide and lay a 6" bed of concrete gauged as before to basement floor, lime-light tank, 1 escape door, shop entrances, and stairs in basement, and under all paved floors, unless otherwise specified.

REINFORCED CONCRETE. Provide and lay a 6" bed of reinforced cement concrete to Vestibule floor and entrance to Auditorium, *over shops, lime light tank & portion of stage floor* gauged five parts shingle, one part cement and one part of sand, gauged as before described and to be reinforced with $\frac{3}{8}$ " diameter steel rods laid 6" apart one way and 24" the other way, and laced at intersections with No.17 gauge black wire.

CONCRETE STEPS. Provide for forming reinforced concrete steps 12" x 5" to dress circle staircase as shown on Plan, gauged as before described, and to be reinforced with No.2 - $\frac{3}{8}$ " diameter steel rods to each step, with all necessary wood casings and boxings. The landing at

same 5" thick to be carried out as previously described for vestibule floor. *All escape and dressing R. Floor to be 4 courses of reinforced concrete with 4 layers of 1/2" brick 6" thick*

REINFORCED CONCRETE BANDS. Provide to all external walls only where shown on elevations and to back and side walls continuous concrete band 14" deep and the full thickness of the walls gauged as before described and reinforced with $\frac{3}{8}$ " diam. steel rods, two rows in height and one to every half brick in thickness of wall, and provide all necessary wood boxing till concrete sets.

CORNICES ETC. Provide similar concrete to main cornices, pediment etc., as shown on Plan to front elevation, gauged as before and reinforced in a similar manner, with all necessary wood molds and boxing.

LINTELS. Provide to all external and internal openings over 3'6" span, unless otherwise shown on Plan, reinforced concrete lintels, gauged as before described and reinforced in a similar manner to bands.

Provide all necessary boxing till concrete

REINFORCED CONCRETE WALL, ETC. Provide a 6" reinforced cement concrete wall and ceiling where shown to Dimmer frame, gauged as before described.

In the W.C. Block at side elevation and in Basement provide No.12 reinforced concrete urinal division each 5'6" x 2'0" x 2 $\frac{1}{2}$ " thick, gauged as before described with edges rounded off, and built in brickwork.

PAVING. Cover the Basement floor with 2 coats best quality tar paving, to be well rolled and laid to all necessary falls required, and form drains in same. The W.C. block at side and escape entrance to be laid with 3 coat work in a similar manner. No concrete under the

GRANOLITHIC PAVING.

Lay the front entrances to shops with 1" bed of Granolithic paving finished red, brought to a smooth surface and chemically hardened $\frac{1}{2}$ " from the surface, and joint same to line of pavement.

M A S O N

STEPS.

Provide to all external escape doors hard stone steps, the full thickness of wall, and 9" longer than opening, and 7" thick; to be fine axed on tread and riser, and axed on other faces, and set in cement mortar.

The steps to external door of scene dock and stage to have a 4" Totara sill in three widths, tongued together with hoop iron tongues.

BASE OF COLUMNS.

Provide 24" x 24" x 14" hard stone column bases axed square and true, holed for Lewis bolts and bedded in cement mortar.

MARBLE MASON

STEPS & RISERS.

Provide 12" x $1\frac{1}{2}$ " White Sicilian Marble treads sand rubbed, edges nosed and polished with 5" x $\frac{3}{4}$ " ditto. riser polished on face, square jointed and set in Plaster of Paris to Dress circle, main entrance, staircase and Fliers, lower steps to have quadrant returns out of 5" marble, worked to match steps. Landings to be laid with 6" x 6" x $\frac{3}{4}$ " black and white marble tiles, sand rubbed, laid diagonally, set on a $\frac{3}{4}$ " bed of cement mortar, gauged 1 to 3 in liquid cement and finish round walls with

SKIRTINGS.

Provide 9" x 1 $\frac{1}{4}$ " White Sicilian marble skirting molded and polished, cut to fit rake of staircase, secured with nickle plated screws secured to plugs, and set same in Plaster of Paris, continue similar skirting around landings etc., with all necessary mitred returns.

FLOOR TILES

Lay floor of Vestibule, entrance to Stalls and thresholds with 6" x 6" x $\frac{3}{4}$ " Black and White marble tiles, sand rubbed. laid diagonally on a $\frac{3}{4}$ " bed of cement mortar, gauged 1 to 3, setting with neat cement and clean off same, and cover up with sawdust to protect same.

TILED STALL BOARD.

The stall boards of shops to be faced with 6" x 3" Green glazed tiles set in cement as before described.

BRICK LAYER

Lime mortar composed of 1 part best quality lime to 2 parts clean sharp sand.

Cement mortar composed of 1 part best Portland cement to 2 parts clean sharp sand.

BRICKS.

Bricks throughout to be machine made, first quality from an approved kiln, sample to be submitted to the Architect. All bricks to be well wetted before being built in.

The whole of the walls of foundations and superstructure to be carried out in brickwork, to the sizes shown on Plan and to be built in old English bond; all well flushed and grouted up with liquid mortar as the work proceeds, and finished with a neat cut and struck joint to all external faces where not cemented, and raked

The internal walls to stage portion, side flies, basement, dressing rooms, scene dock, Artists' room and to all escape stairs to have joints neatly struck and rubbed down with a bag so as to form an even face to receive lime wash. All other portions not specified to be raked out to receive the plaster work.

BRICKWORK IN CEMENT. Build the whole of the external and internal foundation walls and footings, also all piers in cement mortar up to ground level, gauged as before described.

ARCHES. Provide three half brick ring cut and gauged flat arches set in cement mortar to all external openings where concrete bands do not form a lintel for same, and turn three half brick ring rough cut semi and segmental arches to openings at scene dock, boxes over Proscenium and Cafe, where shown on Plan, with two and three ring relieving arches to same. All to be set in cement mortar and resting on $2\frac{1}{2}$ " x $\frac{3}{8}$ " wrought iron camber bars where required.

SILLS. Provide to all external windows brick on edge window sills, set with a deep splay, jointed and set in cement mortar.

CHASES. Provide for forming chases in brickwork for downpipes and vent pipes, and form openings for inlet and outlet ventilators; turn arches over same and large openings.

Provide and build in brickwork where required all necessary coke breeze bricks for fixings. Do all necessary skew and circular cutting required.

DAMP COURSE. Provide and lay over all external and internal brick walls at levels shown on plans a $\frac{5}{8}$ " thick damp course of tar, pitch and sand put on hot.

Provide a $\frac{3}{4}$ " vertical damp course to external walls of Basement, lime-light tank, dressing rooms and Basement stairs of Trinidad asphalt, to be plastered on face of walls (average 4 feet in height).

DRAIN PIPES.

Provide and lay where directed around building 6" diameter glazed stoneware drain pipe, to be jointed in cement, and laid to all necessary falls, with all necessary elbows, bends etc., connecting same to down-pipes.

HOOP IRON BOND.

Provide and build in brickwork where directed 88 cwts. of 1" galvanized hoop iron bond No.17 gauge, well lapped at joints.

AIR FLUES.

Build in brickwork air flues where directed for inlet and outlet ventilators, to be carried from walls and let out on parapet walls where directed, and provide and build in walls No.100 galvanized iron 9" x 6" air bricks, to be built in with proper channels for ventilation.

For other ventilation to dress and other circles etc., see Plumber's specification.

GENERALLY.

Provide for building in all iron work or timber required, bed all plates, etc., and do all necessary jobbing to render this trade complete.

SIDE FLIES AND BRIDGE Will be of steel construction as per detail, floors of 3" bed of cement concrete gauged as before described, 5 parts shingle, 1 part sand, 1 part cement, and finish with 1" thickness of Granolithic, to be laid on 24 gauge galvanized corrugated iron lapped $1\frac{1}{2}$ corrugations and rivetted at joints every 12" resting on the L. irons.

PLATFORM TO DIMMERS To have similar floor laid on corrugated iron. (For ironwork - see Ironfounder).

CARPENTER & JOINER

TIMBERS Timbers to be all sound and well seasoned, free from shakes and large knots. All dimensions specified to be taken when finished unless otherwise mentioned. All roof timbers to be Heart of Totaro, Heart of Rimu, or Oregon.

Joiner's work to be specially selected Californian Red Pine, and Heart of Rimu.

Provide for casing up any stone or marble work liable to damage.

CENTERING Provide all necessary centering, turning pieces, wood slips etc., required.

ABBREVIATIONS The following abbreviations will be used in this specification:-

H.T. for Heart of Totaro.

H.R. for Heart of Rimu.

O. for Oregon.

C.R.P. for Californian Red Pine.

All timbers to be spaced at 18" centres unless otherwise specified.

CASING FOR CONCRETE. Provide all necessary temporary wood casing to concrete bands and lintels, also wood boxing in forming molds for concrete cornices.

DEAL LINTELS. Provide deal in safe lintels to openings where required.

FLOORS. The Auditorium floor to have joists of 6" x 3" H.R. at 18" centres and spiked to 4" x 3" H.T. plates, and 6" x 3" H.T. sleepers covered with 6" x 1 $\frac{1}{2}$ " Heart of Matai Flooring, double nailed with 2 $\frac{1}{2}$ " brads, to be well cramped and laid with falls shown on plans, neatly scribed to columns, walls etc., punched and cleaned off on completion.

The floors to lower boxes and Orchestra to have joists, plates, and flooring same as above. The flooring at Orchestra to be nosed and the riser at same to be lined with 6" x $\frac{1}{2}$ " wrot T.G. vertical H.R. lining, beaded every 3" to show as 3" widths, double nailed to 1 $\frac{1}{2}$ " x $\frac{3}{4}$ " grounds and having 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " wrot H.R. cavetto mold under nosing.

Provide No. 2 flights of steps to Orchestra each having 3 treads, 3'0" wide, the treads 10" x 1 $\frac{1}{2}$ " H.R. nosed and returned at one end with 1" x 1" scotia mold under, risers 6" x 1" ditto. All properly housed, glued, and blocked, having 2" strings and 4" x 3" carriages, and ends of each flight covered in with 6" x $\frac{1}{2}$ " wrot T.G. vertical H.R. lining beaded every 3" and double nailed with all required framing. Provide 4" x 4" H.T. posts with 4" x 2" ditto. cross feet and 6" x 3" ditto. bearers, to

support joist to Orchestra floor.

The joists to Stage to be of 11" x 3" H.R. at 18" centres with 11" x 4" ditto. trimmer and No. 5 rows of 2" x 2" H.R. herring-bone strutting. Storey posts under Stage to be of 6" x 6" H.T. and beams to be 3" x 4" ditto. in long lengths, half checked and bolted at joinings with $\frac{1}{2}$ " bolts and nuts laid slightly raking.

Wall plates under joists to be 3" thick of H.T. to required widths. Dished portion at front of stage to be formed with 11" x 3" H.R. tapered joists framed on ends with 9" x $3\frac{1}{2}$ " H.R. bridle. Cover joists of Stage with 6" x $1\frac{1}{8}$ " tongued and grooved Heart of Matai flooring as before specified.

Provide £100. Sterling for all required trap doors in Stage floor, with hinges etc., complete, to be adjusted at completion of contract.

Cover underside of Stage projection at front with 6" x $\frac{1}{2}$ " wrot T.G., H.R. lining, beaded every 3" and double nailed with $2\frac{1}{2}$ " x $1\frac{1}{2}$ " H.R. mold and $\frac{1}{2}$ " thick H.R. plain and molded returned plates to front.

Provide No. 1 flight of steps from Orchestra floor to floor in Basement under Stage with 3'0" wide treads and risers as before specified. The balustrade to these stairs to have $3\frac{1}{2}$ " x 2" H.R. wrot and rounded hand-rail, $3\frac{1}{2}$ " x $3\frac{1}{2}$ " H.R. wrot newels to bottom of stair, and $3\frac{1}{2}$ " x $2\frac{1}{2}$ " ditto. to top, all having rounded tops and bolted to stringers with $\frac{1}{2}$ " bolts and nuts. Balusters to be $1\frac{3}{4}$ " square wrot H.R. housed top and bottom.

Provide in Basement floor under Stage, No. 4 channels having 3" x 2" H.T. sides and 12" x 1½" bottoms, H.T. and to underside of joists fix 4" x 2" H.T. props for Stage purposes, to slide in.

Joists of floor to Scene Dock to be of 9" x 3" H.R. at 18" centres, with 4" x 3" H.T. wall plate and No. 2 rows of herringbone strutting as before. Floor 6" x 1½" Heart of Matai as before specified. Storey posts to be of 6" x 6" H.T. with 9" x 4" Ditto, beams as before.

Provide No. 1 channel in floor of Basement for storey posts to slide in, with bottoms and sides, also 4" x 2" pieces at top as before specified.

Provide a platform for Conductor 4'0" x 3'0" with 6" x 2" H.R. joists at 18" centres and covered with 6" x 1½" Heart of Matai flooring as before, having nosed edges and 1" x 1" caveto mold with 6" x ¾" wrot fascia.

The floors to shops, Ladies' Cloak Room and the Store, Ground Floor, front block, to have 6" x 2" H.R. joists at 18" centres with 4" x 3" H.T. wall plates, and 6" x 3" H.T. bearers covered with 6" x 7/8" Heart of Matai flooring, well cramped up, double nailed, punched and cleaned off.

The flooring at Stalls Escape and front Ticket Boxes to have 6" x 2" H.R. joists and wall plate as above, covered with 6" x 1½" flooring as before specified.

The flooring to Passages, Dressing Rooms, and Property Room, ground floor to have 1½" x 3" H.R. joists at 18" centres carried on 4" x 3" wall plates of H.T. with 2" x 2" herringbone strutting where directed and covered

The floors to Cafe, Crush Room, Ladies' Lavatory and Gent's Lavatory, etc., first floor, front block, to have 11" x 3" H.R. joists at 18" centres and 4" x 3" H.T. wall plates with 2" x 2" herringbone strutting where directed and covered with 6" x 1 $\frac{1}{8}$ " Heart of Matai flooring as before specified.

The floors to Dressing Rooms, Stores, Landings and Ladies' Lavatory, first floor to have 11" x 3" H.R. joists at 18" centres, with 4" x 3" H.T. wall plate, and 2" x 2" herringbone strutting where directed, and covered with 6" x $\frac{7}{8}$ " Heart of Matai flooring as before specified.

The floors to Office, Rehearsal Room, Ladies' Room, Landing etc., Second floor, to have 11" x 3" H.R. joists and 4" x 3" H.T. wall plate with 2" x 2" herringbone strutting where required. The floor to Rehearsal Room and Office to be 6" x $\frac{7}{8}$ ", and floor to Ladies' room, and stair landing to be 6" x 1 $\frac{1}{8}$ ", all as before specified.

The floors to Dressing Room, Wardrobe and stair landing, second floor, to have 11" x 3" H.R. joists at 18" centres and 4" x 3" H.T. wall plate with 2" x 2" herringbone strutting where required, all covered with 6" x $\frac{7}{8}$ " Heart of Matai flooring as before described.

GALLERY FLOORING. The framing of Gallery to be in steel work (see Ironfounder).

Provide 4" x 3" H.R. uprights at 18" centres with 5" x 3" H.R. joists half checked and spiked to same with 6" x 3" ditto. do. to broad spans.

Provide for filleting the bottom of uprights to steel framing with $\frac{1}{2}$ " bolts and nuts, also connect the ends of joists to steel framing with 1 $\frac{1}{4}$ " x 3/16th" wrot

iron strap bolts and $\frac{1}{2}$ " coach screws. Cover Gallery floor with 6" x $1\frac{1}{2}$ " tongued and grooved Heart of Matai flooring properly laid and cramped to sweep, and double nailed with 2" brads punched and cleaned off on completion. Nosed projection of flooring at all risers and line same with 6" x $\frac{5}{8}$ " wrot T. & G. lining bent to sweep and double nailed with $1\frac{1}{4}$ " x $1\frac{1}{4}$ " cavetto mold under the nosing.

Steps to Gallery floor to have 10" x $1\frac{1}{2}$ " Heart of Matai treads nosed with 9" x $\frac{7}{8}$ " risers returned on one end and blocked out with $2\frac{1}{2}$ " H.R.

Provide No. 18 wrot iron kneed straps 3" x $\frac{5}{8}$ " for Gallery front fixed to 5" x 3" H.R. bearers and bolted to same with $\frac{1}{2}$ " bolts and nuts, with 3" x 3" H.R. posts on face of straps at upright front bolted with $\frac{1}{2}$ " bolts and nuts.

Provide 4" x 3" H.T. wall plates for joists to back of Gallery where required.

DRESS CIRCLE FLOOR The framing of Dress Circle Floor to be in steel work - see Ironfounder.

Provide 4" x 3" H.R. uprights and 5" x 3" and 6" x 3" ditto. joists at 18" centres same as Gallery floor but having 7" x 3" H.R. joists to back gangway, supported on 4" x 3" H.T. wall plate, joists and uprights to be fixed to steel framing with $\frac{1}{2}$ " bolts and nuts, wrot iron strap bolts and coach screws as specified for Gallery floor. Floor to be 6" x $1\frac{1}{2}$ " with nosed projection, cavetto and risers, same as Gallery floor.

Provide No. 18 wrot iron straps 3" x $\frac{5}{8}$ " bolted to 5" x 3" H.R. bearers, and having 3" x 3" H.R. posts same

Provide 4" x 2" H.R. plates bolted to steel framing of Gallery and Dress Circle floors, with $\frac{1}{2}$ " bolts and nuts to carry wood joists. The steps to Dress Circle floor to be same as specified for Gallery floor. *Tongued with 17 square Galv iron on Circle + Gallery*

MAIN ROOF.

This roof to be constructed of steel as specified in Ironfounder. The gutters to be No. 22 gauge plain galvanized iron rivetted and double soldered and laid to falls (Queen's Head brand) and supported on $1\frac{1}{4}$ " x $\frac{1}{8}$ " wrot iron double kneed and bent straps at 18" centres with 4 lbs. lead apron flashing bedded into brickwork with lead plugs and pointed up in cement.

ROOF OVER STAGE

This roof to be constructed of steel work as specified in Ironfounder.

The louvred ventilators as shown on plans to have 6" x 4" wrot Oregon sills sunk and weathered, top runners 5" x 3" wrot Oregon beaded on one arris and mortised for standards and mullions. Standards of 5" x 3" wrot Oregon grooved for $\frac{7}{8}$ " louvres, 2" apart and tenoned to head and sill. Mullions of 5" x 4" wrot Oregon grooved for louvres and tenoned as above. All above framing to be bolted to steel work with $\frac{1}{2}$ " bolts and nuts.

Provide No. 24 gauge galvanized iron louvres with rolled edges let into wood framing. Cover back of louvred ventilators with $\frac{1}{2}$ " mesh galvanized wire netting secured with clouts, having 4" x $\frac{5}{8}$ " beaded cover plate planted on framing to secure same.

The gutters of this roof to be plain galvanized iron with wrot iron supports and lead flashing the same as specified for main roof.

END OF MAIN ROOF

The end of main roof to be covered in with corrugated iron to upright face (see Plumber) secured to 3" x 2" H.R. framing bolted to steelwork with $\frac{1}{2}$ " bolts and nuts. Provide triangular louvred ventilator 6'0" x 6'0" at extremes with 6" x 4" H.R. wrot sunk and weathered sill with 5" x 3" H.R. wrot angle rails framed both ends and grooved for 6" x $\frac{7}{8}$ " louvres all wrot Pine fixed at angle of 60 degrees and spaced 2" apart. The framing of louvred ventilator to be bolted to steel framing with $\frac{1}{2}$ " bolts and nuts.

Bargeboard to end of roof to be 9" x $1\frac{1}{2}$ " wrot and molded Pine with 6" x $1\frac{1}{2}$ " ditto. cap piece and $4\frac{1}{2}$ " x $\frac{1}{2}$ " ditto. plates next louvred ventilator.

ROOF OVER PAINT ROOM. All timbers to be of H.R. unless otherwise specified and spaced at 18" centres. 11" x 2" ceiling joists, 11" x 3" trimmers, 4" x 3" H.T. wall plate, 6" x 2" rafters, 5" x 2" struts, 6" x 3" trimmer rafters, 6" x 3" bridles, 6" x 2" plate spiked to brickwork with $1\frac{1}{2}$ " x $1\frac{1}{2}$ " fillet to support rafters, 5" x 3" kerbs for roof lights, 11" x 4" bridles for ceiling joists and 2" x 2" pole plate, and 3" x $1\frac{1}{2}$ " battens for corrugated iron.

Provide No. 4 deluge sky lights of No. 24 gauge galvanized iron with framed hinges and glazed with $\frac{1}{4}$ " wired rolled plate glass size 6'0" x 3'0", the ingoes to be lined with 4" x $\frac{1}{2}$ " wrot T.G.V. jointed H.R. lining with 4" x 2" H.R. framing.

Gutters to be formed of 1" thick H.R., bottoms laid to falls on 3" x 2" bearers.

ROOF OVER DRESSING ROOMS. All timbers to be of H.R. at 18" centres unless otherwise specified. 5" x 2" ceiling joists, 6" x 2" rafters,

5" x 2" struts, 6" x 2" plate with fillet to support rafters spiked to brickwork, 2" x 2" pole plate, 4" x 3" H.T. wall plate, and 3" x 1½" battens for corrugated iron. 1" thick gutter bottoms on bearers same as above.

ROOF OVER REHEARSAL ROOMS ETC. To be constructed of H.R. timbers at 18" centres unless otherwise mentioned. Ceiling joists 11" x 2"; 4" x 3" H.T. wall plate, 6" x 2" rafters, 6" x 2" uprights, 6" x 2" struts, 2" x 2" pole plate, 11" x 2" hanger with 1½" x 1½" fillets; 4" x 1½" diagonal braces, 6" x 2" plate, with 1½" x 1½" fillet to support rafters and 1" gutter bottoms on bearers.

ROOF OVER OUTSIDE CONVENIENCES. Timbers as before at 18" centres. 4" x 2" ceiling joist, 4" x 3" H.T. wall plate, 4" x 2" plate with 1½" x 1½" fillet to support rafters, 4" x 2" rafters, 6" x 1" wrot and beaded Pine fascia, 7" x 1" ditto bargeboard, and 6" x 1" ditto cap piece.

FRAMING OF HANGING CEILING The framing of hanging ceiling for Auditorium and back gallery to be of H.R. all bolted to steelwork with ½" bolts and nuts properly notched and fitted together. The framing over back gallery to be of 4" x 2" at 18" centres notched on to steel trusses with 3" x 2" ridging pieces and 4" x 2" plates spiked to wall with 1½" x 1½" fillets where required to support same. The circular portion to be formed of ribs of two thicknesses of 9" x 1" cut to sweep, screwed together and birdmouthed at ends with 2" x 2" fillets securing same to steelwork.

The flat ceiling over Auditorium to have 9" x 3" bearers and 7" x 1½" framing with 1½" x 1½" H.R. fillets as shown on plan. The ribs forming cove to be of 2 thicknesses of 8" x ½" cut to sweep as before specified, with 4" x 2" bearer at top bolted to steel work and 4" x 2"

The ribs forming saucer at sliding roof to be of two thicknesses of 12" x 1" H.R. cut to sweep as before specified, fixed to 4" x 2" H.R. circular plates bolted to steelwork and supported by 4" x 2" H.R. framing and hanging pieces.

SLIDING SHUTTER The sliding shutter to be constructed of 12" x 2" Oregon joists at 18" centres with 12" x 3" Oregon trimmers and 12" x 3" ditto. bridle all mortised and tenoned together having 4" x 1½" Oregon diagonal braces and No. 2 rows of 2" x 2" Oregon herringbone strutting covered with 6" x ½" T.G., H.R. lining double nailed. The shutter to be framed in two halves for sliding; the ironwork in connection with sliding roof is supplied by separate contract (see Ironfounder).

FLIES AND BRIDGE. The handrail of flies and bridge to be composed of 4" x 2" channel steel with holes drilled in same at 12" x 24" centres as per detail (see Ironfounder).

Provide No. 86 H.R. pegs 24" long and 1½" diam. wrot and fitted into the channel iron also No. 56 wrot H.R. cleats each 16" long of 3" x 1½" bolted to the channel iron.

DIMMER PLATFORM Provide 4" x 3" wrot H.R. handrail round dimmer platform with 3" x 1½" centre rail and No. 7 wrot H.R. newels bolted to the R.S. joists.

UPPER BOXES The floors of upper boxes and rooms over same to be constructed of 9" x 3" H.R. joists at 18" centres on 4" x 3" H.T. wall plate with 2" x 2" herringbone strutting and covered with 6" x 1½" Heart of Matai flooring as before specified.

PAINT ROOM. The floor of Paint Room to be constructed of 9" x 3" joists H.R. at 18" centres with 9" x 4" trimmers and No. 3 rows of 2" x 2" herringbone strutting all covered

with 6" x $\frac{7}{8}$ " flooring as before specified.

Storey posts to be 6" x 6" H.R. with 8" x 6" H.R. wrot beams mortised and tenoned both ends, and 6" x 4" H.R. wrot bottom plates as shown.

GRID OVER STAGE. Provide wrot framed grid over Stage of 3" x $1\frac{1}{4}$ " battens spaced 5" apart, and fitted between tie beams and secured to plates, and provide all necessary chock blocks etc.,

SHEAVE WHEELS. Provide No. 50 - $4\frac{1}{2}$ " diameter sheave wheels in 5" x $1\frac{1}{4}$ " Oregon journals, size of sheave 18" x $5\frac{1}{2}$ " as per detail.

GALLERY AND DRESS CIRCLEFRONTS. Top rail to gallery to be 10" x 3" wrot H.R. cut to circle on both edges, rounded on inner arris and molded on outer arris.

Top rail to Dress Circle to be as above, but left unwrot for upholstering. Uprights to Gallery and Dress Circlefronts to be of 11" x 2" H.R. cut and shaped, tenoned into top rail and bolted to steel T's., or spiked to wood posts as required.

Line back face of gallery and dress Circle fronts with 6" x $\frac{5}{8}$ " wrot T.G., H.R., V.jointed lining fixed vertical.

Provide 2" x 1" Oregon or H.T. battens for lining etc., bolted to steel work with $\frac{3}{8}$ " bolts and nuts.

FRONTS OF BOXES Provide 10" x 3" H.R. top rail as above specified to boxes, left for upholsterer, with circled parts wrot, out of solid as shown on plans.

Provide 11" x 4" H.R. bridle trimmed to end of joists to carry upright fronts, fronts to be formed of 11" x 2" shaped upright pieces as before specified, but tenoned top and bottom.

Provide 2" x 1" Oregon or H.T. battens for lining, and line inside face of Box fronts with 6" x $\frac{5}{8}$ " wrot T.G. lining as before, having 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " H.R. wrot and bevelled fillet at floor.

FRAMING OF BOXES Provide 4" x 2" H.R. framing plugged to wall where required for fixing the fibrous plaster decorative work to Box fronts etc.,

PARTITIONS AT BOXES Partitions at Boxes to be formed of 4" x 2" H.R. studs at 18" centres, with 4" x 2" H.R. rails and nogging pieces ; those partitions to be lathed and plastered both faces.

FRONT OF STAGE The front of Stage to be of 1 $\frac{3}{4}$ " thick H.R. Pine framing, panelled and bolection molded face and squared to 2" x $\frac{3}{4}$ " Oregon grounds plugged to brickwork with 10" x 1 $\frac{1}{2}$ " wrot H.R. double fascia molded base at ends, beyond the Orchestra floor.

Provide 3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " H.R. wrot molded to top of panelling, ; form door 4'6" x 2'6" in panelling with 3" brass butts and provide lock P.C. 7/6 exclusive of fixing.

IRON CLEATS All external door frames to have 1 $\frac{1}{2}$ " x $\frac{1}{8}$ " wrot iron cleats screwed to frames and ends split and fanged and built into brickwork.

FRONT ENTRANCE DOORS The 3 main front Entrance doors to have frames

12" x 4" ditto. molded transoms. Doors 2½" thick C.R. Pine or H.T., double leaved, each leaf in three panels raised and molded outside, insertion molded inside, rebated and beaded meeting stiles hung folding. Fanlights over doors to be 2½" thick semi-headed, molded and rebated fixed.

Hang above doors with 6" double action butts and pivots and secure same with 24" Panic bolts and 12" brass barrel bolts; also Board of Health locks.

Glaze the fanlights over above doors with leadlights P.C. 4/6 per super foot exclusive of fixing.

BALCONY DOORS

Front elevation first floor Balcony Doors to have 6" x 4" H.R. molded and rebated stiles and head, 12" x 4" ditto. molded transom, doors to be 2" thick C.R.P. or H.T., double leaved, each leaf in two panels, the lower panel raised and bolection molded both faces and upper panel prepared and slip beaded for glass, rebated and beaded meeting stiles hung folding. Fanlights over doors to be 2" thick molded and rebated hung. Doors and fanlights to be hung with 4" steel butts. Provide Preston's brass fanlight openers with cords and Yacht hooks to fanlights; also 12" brass barrel bolts to doors, and locks P.C. 10/6 each unfixed.

Glaze fanlights and upper panels of doors with leadlights P.C. 4/6 per super foot unfixed.

The door between Ladies' Cloak Room and the Balcony to be similar to above but having 2" thick side lights with 6" x 4" mullions and 12" x 4" molded transom, side lights to be glazed with lead lattice work similar to doors.

The architraves to inside of Main Entrance and Balcony doors to be 9" x 1½" H.R. wrot shaped and molded to detail with shaped and bevelled base blocks.

Provide No. 3 shaped and bevelled keyblocks each 10" x 8" x 2" thick to circular heads of architraves at main entrance doors; Sills of side lights at Balcony Door to be 6" x 1½" wrot H.R. nosed with 2" O.G. mold under, returned on ends and mullions and transom to be covered with 4" x 5/8" wrot H.R. double molded plates to inside face.

DOORS TO STORES AND DRESS CIRCLE. No. 6 doors to Stores and Dress Circle to be 2" thick *shutted with 1/16 steel plate both sides and hung to iron frames* ~~and panelled C.R.P. or H.T. double leaved, each leaf in three panels raised and belection molded both faces, hung folding, welded and rebated meeting stiles.~~ Provide Board of Health locks to above doors with No. 2 - 24" Panic bolts to each, and hang same with 4" steel butts (1½ pairs to each leaf).

Provide 1½" thick wrot H.R. rebated and panelled jamb linings to required widths, secured with grounds and plugs to walls.

Provide 9" x 1½" architraves to above doors with base blocks as before specified.

TICKET BOX DOORS Doors to Ticket Boxes to be 1½" thick C.R.Pine or H.T. each in three panels raised and belection molded on face and insertion molded on back, upper panel to have pigeon hole cut in same with brass wire diamond pattern grating and 1¼" cedar shelf.

Provide 1½" thick wrot H.R. rebated and panelled jamb linings with 9" x 1½" architraves and base blocks to above doors where directed as before specified. Hang above doors with 4" steel butts and provide locks P.C. 7/6 each unfixed.

Provide 3" x 1" wrot H.R. architraves to inside face of No. 2 front Ticket Boxes and 6" x 1½" ditto. to outside face of Ticket Boxes at Gallery entrance.

ESCAPE DOORS

All escape doors generally where shown on plan to have 6" x 4" H.R. wrot and molded and rebated stiles and head, doors framed, braced and lined, framing 2" thick C.R.Pine or H.T. stiles and head rebated and beaded for boarding, bottom and middle rails 9" x 1 $\frac{1}{4}$ ", struts 6" x 1 $\frac{1}{4}$ " all wrot and stop chamfered and sheeted with 6" x $\frac{7}{8}$ ", wrot T.G. beaded boards, both faces alike.

P
The Escape door from Stalls to have frames as above but the door to be 2" thick C.R.Pine or H.T. double leaved, each leaf in two panels raised and bolection molded one face and flush molded on other face with 1 $\frac{1}{4}$ " thick panels molded and rebated meeting stiles.

All escape doors to be hung with 6" double action butts and secured at top with 18" Panic bolts and 12" barrel bolts at foot and all fitted with Board of Health locks.

DOORS TO STAGE AND SCENE DOCK

The doors to Stage and Scene Dock to be 24'0" high having 6" x 4" H.R. wrot and rebated and beaded frames, the doors each to be made in two pairs in height, framed, mortised and tenoned, with hanging stiles, meeting rails and heads, 9" x 3" H.R. rebated and beaded, the bottom and middle rails 9" x 2", struts 6" x 2"; all wrot and stop chamfered and covered with 6" x $\frac{7}{8}$ " T.G. and beaded H.R. lining both faces alike, doors hung folding with 4 - 6" steel butt hinges to each leaf. *to be sheeted with 1/16" steel lining to iron frames*
Form wicket gates in above doors each 5'0" x 2'6" of 3" x 3" H.R. framed and sheeted as before the lower rail to have 2" x $\frac{1}{8}$ " iron plate screwed on and having holes thereon countersunk. Hang above wicket gates with 4" steel butt hinges and provide Yale lock and 3 keys to each.

Provide No. 4 ~~Swing~~ bars each 10'6" long to 2 $\frac{1}{2}$ " x $\frac{1}{2}$ " wrot iron hung on pivots in centre, bolted through doors

chains for fixing large doors to Scene Dock and Stage.

DOORS TO CLOAK ROOMS No. 3 doors to Ladies' and Gent's Cloak Rooms ground and first floor, also Gent's Cloak Rooms first floor to be $1\frac{1}{2}$ " thick C.R.P. or H.T. 3 panel, lower panel raised and bolection molded on face and sunk and molded other face, and upper panel prepared and slip beaded for lead lattice work P.C. 4/6 per super foot unfixed. Hang door with 4" steel butts and provide mortise locks P.C. 7/6 each unfixed.

DOORS TO STORES No. 2 doors to Stores, ground and first floors front block to be $1\frac{1}{2}$ " thick C.R. P. or H.T., 3 panelled raised and bolection molded one face and sunk and molded other face and hung with 4" steel butts and provide mortice locks P.C. 7/6 each unfixed.

JAMB LININGS Provide $1\frac{1}{2}$ " thick H.R. wrot rebated and panelled jamb linings to the foregoing No. 5 doors of the required widths, with 9" x $1\frac{1}{2}$ " architraves where required, with base blocks as before specified.

OUTSIDE CONVENIENCES No. 2 doors to outside conveniences to have 6" x 3" H.R. stiles and heads wrot and rebated, doors $1\frac{1}{2}$ " thick ledged and braced C.R.P. or H.T. and sheeted with 6" x $\frac{7}{8}$ " wrot and T.G. beaded boards. Hang doors with 4" steel butts and provide ratchet indicator locks to each.

STALL AND DRESS CIRCLE ESCAPES. No. 2 doors to passages at Stalls and Dress Circle Escapes to be $1\frac{1}{2}$ " thick C.R.P. or H.T. three panelled raised and bolection molded on face and insertion molded on back, hung with 6" double action butts and pivots and fix with 24" Panic bolts and 12" brass barrel bolts and provide Board of Health locks to each.

Provide 1 1/2" thick jamb linings with 9" x 1 1/2"

faces before specified.

DOOR-KEEPERS, STAGE AND DRESSING ROOM DOORS.

Doors at Doorkeepers, Stage, and Dressing rooms on Stage level, to be $1\frac{1}{2}$ " thick C.R.P. or H.T. ~~4 panelled double molded, with $4\frac{1}{2}$ " x 3" H.R. wrot and rebated stiles and head hung with 4" steel butts and having locks P. C.~~
Correspond both sides with 1/6 steel frames all to be covered
5/- unfixed to each.

Provide 6" x $1\frac{1}{2}$ " molded architraves to outside face with base block and 3" x 1" molded architraves to inside face of above doors as before specified.

DOORS TO BOXES

No. 6 doors to Boxes etc., ~~to have 6" x 2" wrot H.R. stiles and head with $\frac{5}{8}$ " wrot planted stops.~~
Doors to be $1\frac{1}{2}$ " thick C.R.P. or H.T. each in 3 panels ~~raised and bolection molded both faces with 9" x $1\frac{1}{2}$ "~~
all covered both sides with 1/6 steel also frames
architraves and base blocks as before. Hang doors with 4" steel butts and provide locks P.C. 5/6 each unfixed.

DOORS IN SIDE BOXES

No. 4 doors in partition at Box entrances to have 4" x 2" H.R. wrot stiles and head and $\frac{1}{2}$ " planted stops. Doors to be $1\frac{1}{2}$ " thick C.R.P. or H.T. 3 panelled, raised and bolection molded both faces with 9" x $1\frac{1}{2}$ " architraves and base blocks as before. Hang these doors with 14" steel butts and provide locks P.C. 7/6 unfixed to each.

Same as doors to Boxes

DOOR AT STAIR TO CAFE Door at stair to Cafe to be $1\frac{1}{2}$ " thick C.R.P. or H.T. four panelled double molded with $1\frac{1}{2}$ " thick H.R. jamb linings and 9" x $1\frac{1}{2}$ " architraves and base blocks outside, also 6" x $1\frac{1}{2}$ " architraves and base blocks inside. Hang door with 4" steel butts and provide locks P.C. 7/6 unfixed.

LADIES' LAVATORY AND CAFE - FIRST FLOOR.

No. 3 doors to Ladies' Lavatory and Cafe first floor, to have 6" x 2" H.R. wrot stiles and head and $\frac{5}{8}$ " planted stops, doors to be $1\frac{1}{2}$ " thick

C.R.P. or H.T. 4 panelled double molded, hung with 4" steel butts and having locks P.C. 7/6 unfixed to each. Architraves to above doors to be 6" x 1½" with base blocks as before or 9" x 1½" ditto, where required to correspond with other doors.

STORE - FIRST FLOOR Door to Store on Dress Circle Floor to have frame 4½" x 3" wrot and rebated H.R. stiles and head. Door to be 1½" thick C.R.P. or H.T. 4 panelled double molded hung with 4" steel butts and having lock P.C. 7/6 unfixed. Provide 6" x 1½" architraves and base blocks to outside face of door.

DRESSING ROOMS AND PASSAGE - FIRST AND SECOND FLOORS AND FLIES.

No. 14 doors to Dressing Rooms first and second floors, also Passage first floor and flies, to be 1½" thick ~~C.R.P. or H.T. four panelled double molded,~~ frames to be 4½" x 3" H.R. wrot and rebated or 6" x 1½" ditto, with ½" planted stops as required. Doors to be hung with 4" steel butts and to have locks P.C. 5/6 unfixed to each. *Crund with 1/8" steel both sides also frame*

Architraves on outside face to be 6" x 1½" with base blocks and to inside face to be 3" x 1" ditto, as before specified.

REHEARSAL ROOM, LADIES LAVATORY AND STALL, UPPER FLOOR.

No. 4 doors to Rehearsal Room, Ladies' Lavatory and Store on upper floor to be 1½" thick C.R.P. or H.T. 4 panelled double molded hung in 10½" x 1½" wrot H.R. jamb lining with 4" steel butts and having locks P.C. 5/6 unfixed to each. Architraves to be 6" x 1½" with base blocks as before.

DOORS, BASEMENT FLOOR. No. 14 doors in Basement floor to be $1\frac{1}{2}$ " thick C.R.P. or H.T. 4 panelled double molded with $4\frac{1}{2}$ " x 3" wrot and rebated frames, all 6" x $1\frac{1}{2}$ " ditto. with $\frac{1}{2}$ " stops as required. Hang doors with 4" steel butt hinges and provide locks P.C. 5/6 each or ratchet indicator locks to certain doors where directed. Provide 3" x 1" H.R. wrot and molded architraves to doors.

SLIDING DOOR Provide sliding door between Property Room and Stage ^{and Run with Stage} of 2" thick deal, framed, braced and sheathed both faces with $\frac{5}{8}$ " boarding and covered with 1/16th" steel plate secured with wood screws having heads countersunk.

Allow the sum of 50/- P.C. for iron running bars pullies etc., to above sliding door.

DOORS OF FLIES Provide No. 2 doors $1\frac{1}{4}$ " thick deal, square framed, with $4\frac{1}{2}$ " x 3" wrot and rebated H.R. frames to doors at Flies and cover same with 1/16th" steel plate secured with wood screws having heads countersunk.

Hang above doors with 4" steel butts and provide locks P.C. 5/6 unfixed to each.

CASEMENT WINDOWS The casement windows to front elevation where shown to have frames of 5" x 4" H.R. wrot molded and rebated stiles and head, 3" x 6" ditto. molded and rebated transom and 7" x 4" H.R. wrot sunk and weathered sill. Sashes to casement to be $1\frac{1}{4}$ " thick molded and rebated with rebated and beaded meeting stiles hung folding with $1\frac{1}{4}$ " thick ditto. fanlights over, hung. The large window on front elevation to be similar to above but having sidelights fixed.

All casements on front elevation to have semi or elliptical heads as shown on drawings. Hang sashes where directed with 4" steel butts and provide Preston's fanlight openers with cords etc., also brass casement fasteners and stays with 6" brass Smith bolts.

Provide 6" x 1½" molded H.R. wrot architraves to above windows, also 6" x 1½" wrot H.R. window nosing with 1½" O.G. mold under, returned on ends. The framing of large window to have 3" x 1" wrot H.R. plates inside and 6" x ½" wrot H.R. double molded transom casing.

FIXED WINDOWS

No. 2 windows in gable ends above Paint Room to have frame of 5" x 4" H.R. wrot molded and rebated stiles and head, 7" x 4" H.R. wrot sunk and weathered sill. Sash to be 1½" thick C.R. Pine molded and rebated and divided into four panes with 2¼" x 1½" double molded and double rebated astragal bars fixed.

BOX FRAMES

The whole of the windows in side and back elevations where shown to be box framed windows having 1½" molded and rebated sashes double hung in box frames with best spot cords and cast iron weights, and 1¼" pulley stiles and head, inside and outside linings ¾" thick, 3" sunk and weathered sills and ⅝" parting beads, inside beads ⅞" with pendulum slips and back lining and fitted with brass sash fasteners and lifts.

Provide 3" x 1½" H.R. wrot and nosed window boards to above windows with 1½" O.G. mold under.

Provide 6" x 1½" architraves as before to windows in Cloak and Dressing Rooms at Stage level, also 3" x 1" ditto. to all other box framed windows.

GLASS

Glaze sashes, sidelights, and fanlights of No. 6 windows to front elevation with 26 oz. sheet glass

Glaze all box framed windows and fixed windows in Gable ends with glass similar to above.

PARTITION AT LADIES' CLOAK ROOM, FIRST FLOOR. The partition between Lavatory and Ladies' Cloak Room first floor, front block to be 8'6" high, with 4" x 2" H.R. ceiling joists over same, at 18" centres with 2" black iron wall plate, tarred and sanded, 12" x $\frac{1}{2}$ " wrot H.R. plain jointed lining, double nailed to top of ceiling joist with 2" x 2" bevelled fillet next walls, and lath, plaster, float, and set ceiling under ditto.

Studs of partition to be 4" x 2" at 18" centres with 4" x 2" H.R. rails and nogging pieces. Stiles and mullions to be 4" x 2 $\frac{1}{2}$ " H.R. molded and rebated as required, with 4" x 4" H.R. molded and rebated top rail.

Provide 4 $\frac{1}{2}$ " x 4" wrot H.R. built molded cornice with rough blocks to top of partition.

Provide sashes to upper part of partition 1 $\frac{3}{4}$ " thick and 3'6" high of C.R.P. or H.T. wrot rebated and glazed with white G. pattern glass secured with beads.

Sashes to be secured to frames with $\frac{1}{2}$ " thick wrot H.R. molded cover plates and to have 4" x 1 $\frac{1}{4}$ " wrot and nosed H.R. sill with 1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " cavetto to one side and 3" x 1 $\frac{1}{2}$ " wrot H.R. sill mold to other side.

W.C. PARTITIONS. The partitions at W.C.'s and Lavatories on ground floor and first floor to be 1 $\frac{1}{2}$ " thick framed H.R. and panelled three panels in height, insertion molded both faces, 6'6" high above floor with 3" x 1 $\frac{1}{4}$ " double molded cap on top having cavetto mold under to both sides. The partitions where directed to be slip beaded and glazed with white G. pattern glass as before. Form doors in partitions to W.C. to correspond, hang with 4" steel butts all fitted with ratchet indicator locks.

Posts to partitions to be 3" x 3" H.R. wrot, grooved and fixed to floor and brick walls as directed

PARTITIONS AT CAFE AND OFFICE. The partitions at Cafe first floor and office second floor in front block to be formed with 4" x 2" H.R. studs at 18" centres, and 4" x 2" H.R. plates and nogging pieces, the lower part on both sides to be lined with 4" x $\frac{1}{2}$ " wrot T.G.V. jointed H.R. lining and upper part to both sides above sashes to be lathed and plastered both sides.

Stiles, mullions and top rails to be 4" x $2\frac{1}{2}$ " H.R. wrot molded and rebated as required. Sashes 5'0" high to $1\frac{3}{4}$ " thick wrot molded and rebated, fixed with $2\frac{1}{2}$ " x $\frac{1}{2}$ " wrot H.R. double mold cover plate to stiles, and 3" x $\frac{1}{2}$ " single mold ditto. to top.

Sill on one side of partitions to be 4" x $1\frac{1}{4}$ " wrot and raised with $1\frac{1}{2}$ " x $1\frac{1}{2}$ " cavetto under and on the other side to have 3" x $1\frac{1}{4}$ " wrot H.R. sill mold returned on ends.

Glaze sashes of above partitions with white "G" pattern glass secured with beads.

PARTITIONS AT DRESSING ROOM OFF FLIES. The partitions at dressing rooms off flies to have 4" x 2" H.R. studs at 18" centres with 4" x 2" ditto. rails and nogging pieces. Cover both sides with 4" x $\frac{1}{2}$ " wrot T.G.V. jointed H.R. lining.

SHOP FRONTS.

No.3 doors to shops to be 2" thick C.R.P. or H.T. each in three panels raised and bolection molded on face and insertion mold at back, hung with 4" steel butts and having locks P.C. 10/6 each, unfixed.

Sills to shop windows to be of white metal with wood core P.C. 2/6 per foot run unfixed.

Glazing bars to be of white metal with wood cores P.C. 2/6 per foot run unfixed.

Glaze shop windows with $\frac{1}{4}$ " British polished plate glass secured with beads.

Line soffit of shop windows with 6" x $\frac{1}{2}$ " wrot T.G. H.R. lining, beaded every 3" with $2\frac{1}{2}$ " x 2" H.R. wrot bed mold.

PARTITIONS AT PAINT ROOM. The partitions at paint room to have 4" x 2" studs at 18" centres with 4" x 2" H.R. rails and nogging pieces, lined on both sides with 4" x $\frac{1}{2}$ " H.R. wrot T.G.V. jointed lining.

Fixed sash in partions to be $1\frac{1}{2}$ " thick of C.R.Pine or H.T. molded and rebated with 4" x $2\frac{1}{2}$ " H.T. wrot and rebated frame and 3" x $\frac{3}{4}$ " Molded cover plates both sides.

Door in partitions to be 6'6" x 2'6" and $1\frac{1}{2}$ " thick C.R.Pine or H.T. four panel double molded with 6" x $1\frac{1}{2}$ " wrot rebated jamb linings, and hung with 4" butts with lock P.C. 5/6 unfixed.

Provide 3" x 1" molded architrave to both sides of above door.

COUNTER.

The counter at Cafe to be as shown on plans, 2'6" broad 3'3" high and $1\frac{1}{2}$ " wrot Cedar top ~~fixed~~ thick-nessed out to $2\frac{1}{2}$ " on front edge.

Front to be $1\frac{3}{4}$ " thick Cedar, framed, panelled and bolection molded with 12" molded skirting at foot and 3" bed mold at top and supported on No.5 wrot framed tressels out of 4" x 2" H.R. with drawer 24" x 18" x 6" having $1\frac{3}{4}$ " front, $\frac{5}{8}$ " sides and bottom, and all necessary runners and friction rollers and fitted with No.4 cash bowls.

Provide $1\frac{1}{2}$ " thick wrot Cedar extension tops to counter as shown with 4" x 2" wrot H.R. framing and 1" wrot H.T. shelving under same.

FRAMING UNDER GALLERY AND CIRCLE. Provide 3" x 2" H.R. plates bolted to flanges of steel girders under gallery and circle with $\frac{1}{2}$ " bolts and nuts, having 4" x 2" H.R. longitudinal framing for fibrous plaster. The ceiling at back portion of dress circle under gallery to be brought down with 6" x 2" H.R. ceiling joists at 18" centres, fitted on to 6" x 2" H.R. plate, spiked to brickwork and having $1\frac{1}{2}$ " x $1\frac{1}{2}$ " fillet to carry same.

DOMED CEILING. The dome or waggon shaped ceiling over front main stair to have 6" x 2" H.R. ^{ceiling} joists at 18" centres with 6" x 2" plates and 4" x 2" ditto. spiked to brickwork. Bearers to be of 6" x 2" H.R. with 4" x 2" H.R. framing and ribs to be of 2 thicknesses of 12" x 1" cut to shape as before specified.

RAISED FLOORS. The floors at back of boxes over flights of steps to be raised for head room to stair having all required trimmer joists, bridles and 6" x 3" H.R. floating bearers and cover with 6" x $\frac{7}{8}$ " Heart of Matai flooring, nosed at exposed edges with $\frac{7}{8}$ " H.R. risers fixed to 4" x 2" H.R. framing.

WOOD STAIRS.

To be Guaranteed Hempstead Concrete Laid & Soffits
~~All~~ escape stairs, and stairs to boxes etc. where colored wood and marked on plans to be all framed and fitted together in the most substantial and tradesmanlike manner and to be constructed to detail as shown in Schedule of Quantities.

Where shown provide balustrades and newel posts with hand rails of H.R. or Cedar, and H.R. mid rails also wrought iron scroll brackets and balusters etc. as detailed in Schedule of Quantities.

Where directed close in ends under stairs with 3" x 2" H.R. studs and rails and cover same with certain soffits with 4" x $\frac{5}{8}$ " T.G.V. jointed H.R. lining, with

Line soffits of escape stairs with No.26 gauge galvanized corrugated iron 1" flutes lapped one corrugation at sides and 3" end laps, secured with screws and washers to 2" x 1" Oregon battens.

Hand rails to escape stairs to be of 2" diameter galvd. iron with ball terminals and four steel brackets (See Ironfounder).

ORCHESTRAL RAILS. To be of 2" diameter wrot galvd. iron pipe rail with elbows and 3'0" high, standards of 4" x 4" Cedar, wrot molded and turned to detail, also 4" x 1½" wrot and chamfered H.R. foot rail, with No.70 - 3" dia. polished brass rings.

RAMP AND PLATFORM. The ramp and platform to Scene dock to be constructed of 5" x 5" H.R. posts and stumps, of 6" x 3" ditto, stiles of 9" x 3" ditto. bearers, with ½" bolts and nuts where required.

Cover same with 4" x 3" H.R. decking, edges chamfered and spiked to bearers.

Newel posts to be 4" x 4" H.R. fixed with ½" bolts and nuts. Hand rail to be 4" x 3" H.R. wrot and rounded, with 3" x 1½" H.R. wrot mid rails.

PAINT FRAME. The paint frame and guides for same to be constructed all as per detail drawing, of rough dressed Oregon. All priperly framed and braced together and secured with iron straps iron bolts and nuts (See Ironfounder).

Provide No.16 - 6" diameter grooved pulley stiles and journals; also No.24 - 1½" faced brækets-friction rollers, screwed to stiles.

Provide 364 feet run ½" diameter flexible steel rope and all connections to the hangers and weights. Provide No.4 cast iron balance weights on ¾" diameter

Provide No.12 cast iron Cheese pattern weights 28 lbs. to each.

PAINT TABLE. Provide No.1 framed paint table 34 feet long and 4'0" wide of $1\frac{1}{2}$ " thick deal wrot on 4" x 4" H.R. framed tressels at 4'0" centres; front rail 6" x $1\frac{1}{4}$ " all bolted together.

ARCHITRAVES. All architraves to windows and doors to be of wrot and molded H.R., all as previously specified, secured to 2" x $\frac{3}{4}$ " grounds and plugs.

HAT RAILS. Provide 250 foot run of 6" x 1" wrot and molded H.R. hat rails, plugged to brick walls; also 70 foot run of 6" x 1" wrot and molded Cedar hat rail ditto.

Provide and fix 20 dozen stout Japanned hat and coat hooks and 6 dozen solid brass hat hooks with screws.

LAVATORY TOPS. The tops to lavatory and dressing room table to be of $1\frac{1}{4}$ " thick, wrot and nosed Pine, fitted to wrot framed tressels of 3" x 2" H.R., 2'6" high and 24" broad under same.

Provide 3" x $1\frac{1}{2}$ " wrot H.R. towel and foot rails to the foregoing lavatory tops.

PIPE CASING. Provide 250 feet super of $\frac{3}{4}$ " thick wrot and beaded pipe casing with fillets where required for fixing pipes.

CRADLING. Where required encase R.S.Joists with 3" x 2" Oregon cradling with 24" centres bolted with $\frac{1}{2}$ " bolts and nuts.

BUCKET STANDS. Where shown on plans provide 15" x 1" wrot deal shelving in stand supported on standards for fire buckets and hole same to receive buckets.

SKIRTINGS.

Provide 12" x 1 $\frac{1}{4}$ " wrot and molded H.R. skirting secured to 2" x $\frac{3}{4}$ " grounds and plugs in ladies Cloak room and boxes ground floor, Crush room, Passages, Ladies and Gents Cloak rooms, Boxes and Dress Circle first floor

Provide 7" x 1" wrot and molded H.R. skirting with grounds and plugs as above to shops and passage at dressing rooms; also dressing rooms at stage level. Cafe and Stair landing, Ladies and Gents Lavatories 1st floor, Rehearsal room and room adjoining same; also office ladies room 1st floor and Gallery and Stair landing at gallery. Provide 2" quarter round wrot H.R. fillet at floors to stairs, ground floor, stage, scene dock, Property room, Front ticket boxes, Stair first floor, back stair, stair landing off dress circle, passage, dressing rooms, passage and ladies W.C. next dressing rooms first floor; also dressing rooms, stair landings, lobby ward-robe and paint room in upper floor.

DRESS CIRCLE BARRIER. The barrier at back of dresscircle to have 4" x 2" H.R. posts at 18" centres, with 3" x 2" H.R. nogging pieces between same. Back of barrier to have 4" x $\frac{5}{8}$ " H.R. beaded vertical lining double nailed to 2" x 1" H.R. Battens. Front to be lined with stamped steel P.C. 3/6 per super yard unfixed, and batten for same. Fix 7" x 1" wrot H.R. molded skirting to both sides of barrier. Cope to be 9" x 1 $\frac{1}{4}$ " wrot H.R. double molded, cut to suit curve of circle on both edges, with 1" x 1" wrot cavetto mold under same on both sides.

Fix the posts of barrier to floor with No.2 - 1" x $\frac{1}{4}$ " wrot iron kneed straps to each post, screwed to floor.

DADOES.

The dadoes in Auditorium and dress circle to be of stamped steel P.C. 3/6 per super yard, unfixed

Provide 2" x 1" battens for fixing same plugged

before; also $2\frac{1}{2}$ " x 2" wrot H.R. molded capping, mitred and returned where required.

SHELVING. Provide 40 super feet of 1" wrot Pine shelving to be fitted where directed.

PICTURE RAILS. Provide 300 foot run of 3" x $1\frac{1}{2}$ " H.R. wrot and molded picture rails, plugged to walls where directed.

TICKET BOXES. Provide No.5 drawers to ticket boxes, each 18" x 14" x 6" having $1\frac{3}{4}$ " front $\frac{5}{8}$ " bottom and sides, of C.R.Pine wrot and dove tailed together, with No.4 cash bowls to each.

Provide 40 ft. run of 8" x $1\frac{1}{4}$ " wrot deal shelving with fillets in ticket boxes.

ENCLOSURE TO SIDE LIGHTS. Provide 56 feet run of shutters and framing as enclosure to side lights of proscenium, having framed shutters 15" wide in No.3 flaps of $\frac{3}{4}$ " deal, hung with small brass butts every 18" and secured to fillets. The cradles for lights to be $\frac{1}{8}$ " diameter galvd. wire frames, secured to rods and made movable to open and shut. Line back and sides of enclosure with No.24 gauge plain galvanized iron rivetted and secured to fillets in walls.

DROP CURTAIN ENCLOSURE. Provide 6" x $\frac{7}{8}$ " T. & G. lining boards secured to 3" x 1" fillets plugged to walls in in boxed casings for balance weights to curtains.

SLIDING ROOF PLATFORM. Provide platform for working sliding roof where directed and constructed of 9" x 2" H.R. joists at 18" centres and cover same with 6" x $1\frac{1}{8}$ " wrot T.G. Heart of Matai flooring.

JOBGING. Do all necessary jobging to render this trade complete.

P L U M B E R

ROOFS.

Cover the whole of the roofs with "Orb" or "Crown" brand galvanized corrugated iron, ~~26~~ gauge double lapped at sides and 9" end lap, secured with 2" screws and lead washers and with clip bolts and nuts to the steel purlins. ^{Top} edge of sheets to be burred to prevent the rain driving up.

FLOORS.

Provide 24 gauge galvanized corrugated iron $1\frac{1}{2}$ " lap and rivetted every 12" at joints to receive the concrete floors of flies, bridge and dimmer platform.

GUTTERS.

Lay all gutters with 22 gauge plain galvanized iron rivetted and double soldered, the several widths shown, turned 6" up walls, and 8" up plain of roof, laid to falls 1" in 10 feet. The gutters over main roof and stage etc. to be secured with wrought iron straps $1\frac{1}{4}$ " x $\frac{1}{8}$ " at 18" centres.

Form No.16 cess pits 9" x 9" x 6" of 6 lbs. lead with $4\frac{1}{2}$ " lead outlet and brass grating.

RIDGES.

Cover all hips and ridges with 18" galvanized iron ridging 24 gauge, lapped 6" at joints, secured with screws and washers and clips at 3'0" centres.

EAVES GUTTERS.

Provide 6" galvd. iron O.G. eaves gutter 24 gauge to lean to roof over Gallery and to louvred ventilating roof over stage and W.C. block at side, having joints rivetted and soldered and secured with screws and tubes every 30". Form outlets for 4" dia. down pipes and connect same on to roof etc.

DOWN PIPES.

Provide and fix where shown on plan $4\frac{1}{2}$ " dia, 22 gauge galvd. iron down pipe, rivetted and soldered secured with holdfasts and clips, the lowest lengths of pipes to be 4 1/2" x 4 1/2" square galvd. iron 22 gauge

with shoes, set-offs and plinth bends and fitted at top with large size freshly made cistern heads of 22 gauge galvanized iron with hood over same. Cover with wire netting. Down pipes from roof over lantern^{and} to W.G. block to be of 4" ditto. do.

FLASHINGS.

Flash and step flash wherever necessary with 4 lbs. milled lead secured with plugs. Cover apex of roof with 4 lbs. milled lead.

EXHAUST VENT PIPES.

Provide and fix in roof over stage and gallery No. 4-18" diameter No. 24 gauge galvanized iron vent pipes from ceiling through roof, with 36" bell mouth piece, covered with fine mesh galvanized fly wire and 2" molded rim, and finish at top with Boyles or other approved extractors and secured with all necessary galvanized iron bands and wire ropes to stay same.

No. 2 - 12" ditto. from under side of stalls and dress circle carried up the recess in brick wall and finished as before; also two short lengths of pipe from back of Gallery, with bell mouth piece and extractor.

VENTS TO STALLS, DRESS CIRCLE & GALLERIES. To have No. 14 in all having 9" x 4½" galvd. iron 24 gauge piping, rivetted and soldered and built in wall and secured with straps and joists, and fitted with elbows of 9" x 4½" with 14" x 10" bell mouth pieces of 24 gauge galvanized iron, fitted in walls of stalls 7'6" above floor line.

Fit up No. 14 air inlet hoppers fitted with regulating valves, brass fist indicators and deflecting shields, Size 20" x 10" x 4" and No. 14 open pattern galvanized cast iron air grids, 14" x 10"

OUTLET VENTS.

No. 36 galvd. iron outlet vents to be placed where directed of 24 gauge iron with baffle plate on

pivots. Size 14" x 6½" P.C. 12/- each. Allow for carriage and fixing of same. No.56 galvanized iron inlet vents of 24 gauge, with hinged hopper fronts of stamped zinc. Sizes 12" x 6½". P.C. 7/- (Seven shillings) each ditto.

VENT SHAFT TO DOME. The vent shaft to dome to be 26 gauge plain galvanized iron, rivetted and soldered and secured to wood work with screws.

FIRE SERVICE. Provide for making No.1 connection to main with 4" diameter cast iron main, with spigot and fawcet joints run in molten lead. Provide all necessary T. pieces elbows, etc., and provide for No.1 sluice valve and No.1 H.P.D. valve from this main to two 3" diameter galvd. iron H.P. branches across Theatre.

Provide 2½" diameter galvanized iron H.P. rising main with all necessary elbow; T. pieces, wall hooks etc., to be carried up to angles of Auditorium, and provide No.2 brass stop cocks on the pipe.

Provide No.2 points on stage; No.2 on Flies; No.2 in Stalls; No.2 in Dress and Family Circles; 1 point at Landing to Dressing rooms and 1 point in Property room and Paint room. Each stand pipe to have a 2½" gun metal cock with brass wheel in front, and 70 foot run of 2½" best quality canvas hose, with screw unions and brass nozzles; all as per Fire Brigade's Rules.

FOLDING BRACKETS' Provide No.14 wrought iron folding brackets, secured to wall and painted red to receive each hose.

BLANKET TRAYS. Provide galvanized iron blanket trays 24" x 6" x 4" of 22 gauge galvanized iron, all rivetted and soldered and fixed to wall and supply each with a blue blanket, No.14.

BUCKETS AND AXES. Provide and fix in wood stands specified in Carpenter's work, wrot galvanized iron buckets, painted white inside and red outside and lettered "FIRE", No.64 buckets.

Provide No.4 Firemen's axes, painted red and hung on walls of stage and flies.

WATER METER. Provide for No.1 - 2½" tested water meter.

WATER SERVICE. Carry from the 2½" water main, 1½" galvanized iron water service with 1"- ¾" and ½" branches to lavatories and dressing rooms on all floors; also sink with all necessary 1" and ¾" brass stop cocks, and ½" brass push down bibs, with No.8 nickle plated pillar taps to principal basins.

TANKS. No. 2 Provide a 400 gallon wrot iron malt tank over W.C's on ground floor, and Ladies W.C. at rear. Drill all necessary holes and provide screw unions fitted with 1" supply and overflow pipe, and 1" ball cock.

SYPHON. Provide a Chalmer's patent automatic syphon to basement under stage and connect water supply to same; 1½" discharge pipe carried to right of way or street channel.

GAS SERVICE Give notice to the Gas Company.

GAS. Provide for laying on the gas to No.50 points, with 2" diameter black iron piping, with all necessary elbows, reducing sockets, wall hooks etc., and 1½" and 1" branches, and ½" ditto. to points. No.1 to each dressing room and stair landing, 10 points Paint room and 10 to Scene Dock.

FITTINGS. Provide the sum of £18.0.0 (Eighteen pounds)

Brought forward

ELECTRIC LIGHT

GENERAL - All wires are to be enclosed in screwed enamelled iron conduits throughout. All wires are to be 600 Megohms C.M.A. Manufacture. Junction boxes, long threads and inspection fittings to be provided, and wires are to be carefully drawn in. All work must comply with the Fire Underwriters and Health Department requirements, and must be to the satisfaction of the Architects.

All materials must be of the best manufacture, and all work must be carried out in a thoroughly workmanlike manner, by fully qualified tradesmen.

All switch and fuse boards must be of polished White marble, not less than 1" thick, and supported on angle iron frames, and all distributing boards must be enclosed in lock up f. re-proof cases.

STAGE, DRESSING ROOMS &c.

BORDERS - To be 6 in number, arranged to raise and lower from flies. Each border to be fitted with 120 Batten holders, and 16 c.p. lamps in three colors, and wired with 1/16th" wire looped in to 20 lights on each circuit. Each circuit to be run back to dimmer frame and to be fused and switched thereon

WELLS. - To be 12 in number, 6 on each side of stage, each provided with a specially substantial plug mounted on marble and firmly fixed below stage floor in well trap. Each well to be run back to dimmer frame with 1 pair of 7/20 cables and to be switched and fused on dimmer frame.

STAGE ARCS. To be 10 in number placed as follows;- 2 on each side of stage in same trap as wells, and 3 on prompt and 3 on O.P. perches. A similar plug to wells to be provided for each stage arc, but plugs must be so constructed as not to be interchangeable with well plugs. Each plug to be run back with a pair of 7/20 cables to stage switch board near dimmer frame.

Carried forward

Brought forward

FOOTS:- To consist of 2 rows of 120
16 c.p. lights in 3 colors. Foot
lights to be wired with 1/16 wire in
circuits of 20 lights each. Each
circuit to run back to dimmer frame,
and fused and switched thereon.

PROSCENIUM:- To consist of 60 - 16 c.p.
lights in each side, making 120 in
all, wired with 1/16 wire in circuits
of 20 lights each to dimmer frame and
to be fused and switched thereon.

BUNCHES:- Six bunches to be provided,
each fitted with 30 - 16 c.p. lights
looped with 1/18 wire to S.P. switches
and fuses on frame work, three
switches and fuses to each bunch.
Each bunch to be wired with three
double 40/36 flexible enclosed in
rubber three ply hose to plug for
wells.

GROUND ROWS:- Six in number to be
provided, each fitted with 30 Batten
Holders and 16 c.p. lamps looped
with 1/18 wire in circuits of 10
lights to S.P. switches and fuses on
frame work. Each row to be wired
with 3 - 40/36 flexibles to plug for
wells.

CHANDELIERS:- 2 Plugs to be fixed in
flies, supplied by 2 pairs of 7/20
cables from Stage board.

STAGE ARCS. 7 Stage arcs of the best
manufacture to be provided and wired
with 7/20 cable to Arc plugs.
Resistances to be provided, fixed
and connected below stage.

DIMMERS:- 32 in number of the Cutler
Hammer type to be provided as follows,
10 - 60 light, and 22 - 40 light to
be erected complete with dimmer frame
and interlocking gear, so arranged
that any number of dummies can be
operated together, or each singly.

STAGE SWITCH BOARD:- To consist of 1"
polished white marble panel of ample
size, and mounted with all main and
sub-main D.P.Q.B. switches, and fuses
of the Dorman Smith pattern to control
all stage lights and auditorium cir-
cuits for ordinary lighting. This
switch board to be placed near dimmer
frame and supported on angle and Tee
iron frame made of 2" x $\frac{1}{4}$ " iron.

SIGNAL LIGHTS:- 6 in number to be wired
and fixed with a separate switch to
each at prompt desk, and run back to
stage board.

Carried forward

Brought forward

FLIES:- Provide and fix 6 - 16 c.p.
pendant lights controlled by 3
switches in flies.

SCENIC ARTISTS:- 1 - 20 light batten
and 6 pendants, 4 switches.

UNDER STAGE:- 21 - 16 c.p. pendants.
16 switches.

GAS TANKS:- 2 - 16 c.p. do.
1 switch

SCENE DOCK:- 6 - 16 c.p. pendants
12 Switches

" No.2. 6 - 16 c.p. pendants
2 Switches

PROPERTY ROOM:- 8 - 16 c.p. pendants
2 Switches

10 DRESSING ROOMS:- Each to have 3
16 c.p. pendants and 1 switch out-
side each door.

SUPERS' DRESSING ROOMS:- Each to have
8 - 16 c.p. pendants and 2 switches
outside each door.

3 DRESSING ROOM PASSAGES:- Each to
have 3 - 16 c.p. pendants on alter-
nate circuits.

DRESSING ROOM STAIRS & ESCAPE:-
10 - 16 c.p. pendants on alternate
circuits, switch to each circuit

2 LAVATORIES:- 3 - 16 c.p. pendants
and 1 switch to each

CLEANERS' ROOM & STORE:- 1 - 16 c.p.
pendant and 1 switch to each

All Dressing rooms, Property rooms, &c.
as above are to be wired in 3 amp.
circuits, to distributing boards,
fixed in convenient positions and
connected by feeders from sub-main
fuses on main board.

Stairs & Entrances

3 GALLERY STAIRCASES:- 2 - 3 light
clusters and 6 - 16 c.p. pendants
to each, arranged on alternate cir-
cuits with 2 switches to each stair-
case.

Brought forward

5 ESCAPE STAIRCASES:- To have a 16 c.p. pendant light on each landing arranged on alternate circuits with separate switch to each circuit.

EXTERNAL W.C's :- 2 - 16 C.P. pendants and 1 switch.

LADIES CLOAK ROOM STALLS:- 4 - 16 c.p. pendants and 1 switch with glass shades.

CLOAK ROOM:- 2 - 16 c.p. pendants and 1 switch with glass shades.

LADIES W.C's STALLS:- 3 - 16 c.p. pendants and 1 switch

MANAGER'S ROOM:- 4 - 16 c.p. pendants and 1 switch with glass shades

VESTIBULE:- 2 newel lights and 5 - 3 light metal ceiling clusters, 3 switches.

DRESS CIRCLE STAIRS:- 5 - 3 light clusters on ceiling with 2 switches

MAIN ENTRANCE:- Provide and fix 4 - 8 amp. Excello flame Arc lamps with deposit free globes and water tight covers, together with line resistances etc. These Arc lamps to be supported on fancy iron brackets.

TREASURER'S OFFICE:- 4 - 16 c.p. pendants with fancy glass shades and 4 switches.

CLOAK ROOM, GENTS' SIDE:- 2 - 16 c.p. pendant with fancy shades and 1 switch.

GENTS CLOAK ROOM. 4 - 16 c.p. pendant with glass shades and 1 switch

STORE ROOM:- 1 - 16 c.p. pendant and switch

LADIES CLOAK ROOM - DRESS CIRCLE:- 3 - 3 light ceiling clusters with 1 switch, and 2 pendants with glass shades and 1 switch.

LAVATORY:- 3 - 16 c.p. pendants, 3 switches.

CRUSH ROOM:- 3 - 3 light ceiling clusters with 1 switch, and 2 pendants with glass shades and 1 switch

CAFE:- 4 pendants with glass shades and 2 switches

Carried forward

Brought forward

CLOAK ROOM:- 2 Pendants with glass shades and 1 switch

GENTS CLOAK ROOM:- 4 - 16 c.p. pendants with glass shades and 1 switch

STORE:- 1 - 16 c.p. pendant and 1 switch.

6 TICKET BOXES:- 1 - 16 c.p. pendants and switch to each.

FEMALES LAVATORY - GALLERY:-
3 pendants, 1 switch

STORE ROOM:- 2 pendants, 1 switch

REFRESHMENT STORE:- 2 pendants,
1 switch.

All lights in stairs, entrances, etc. must be wired on alternate circuits connected to separate distributing boards and fed by separate mains from main switch board.

Distributing boards for Stairs, Entrances, etc., are to be placed in such a position as to be inaccessible to the public, but in an accessible position for Theatre Employees. These distributing boards must be arranged, so that they can be locked up with the switches either "on" or "off".

AUDITORIUM

ORCHESTRA:- 20 Plugs to be provided wired on 3 amp. circuits back to stage board. Each circuit to have separate switch. 20 Orchestra fittings with lamps, and flexible, to be provided and fixed on Music stands.

2 STALLS, BOXES, & ENTRANCES:- 5 Pendants with glass shades and 3 switches to each box.

2 SMALL STAIRCASES:- 2 Pendants to each.

STALLS:- 15 Pendants with glass shades under Dress Circle.

Carried forward

DOME STARS - 15 - 3 light clusters and 15 single lights to be provided and fixed around Dome. All arranged so as to lower from roof for re-lamping.

ESCAPE DOORS:- Provide on separate alternate circuits from Stage board a 5 c.p. bracket, with suitable lantern over each escape door.

OUTSIDE PROSCENIUM WALL:- 1 - 3 light cluster arranged to lower from roof.

2 DRESS CIRCLE BOXES & ENTRANCES:- 5 Pendants with fancy glass shades and 3 switches.

2 SMALL STAIRCASES:- 3 Pendants to each.

DRESS CIRCLE:- 15 Pendants with fancy shades to each, fixed under Gallery.

GALLERY:- 15 Pendants from roof, and over Gallery Entrances.

All lights in Auditorium to be wired on alternate 3 amp. circuits from stage board, and controlled thereon by 2 main D.P. switches.

EMERGENCY CIRCUITS:- 22 Ceiling lights to be installed in Auditorium, wired on alternate circuits back to distributing boards provided for entrances etc., and controlled thereon by 2 D.P. switches.

DOME ARC:- Provide, instal and connect by means of a pair of 7/16 cables to stage board, 1 dome Arc lamp complete with all accessories, resistances, etc.

CONTINGENCIES:- Allow the sum of £30 to be expended on extra work to be ordered by Architect.

Speaking Tube.

Provide No.1 - 1" diameter zinc speaking tube from Prompter's stand to Orchestra, with all necessary elbows, wall hooks, and furnished with vulcanized mouthpiece and whistle.

*See page 3
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KEROSENE LAMPS. No.30 Provide Small Kerosene lamps in glass frame casing P.C. 6/- (Six shillings) each, fixed to hooks in walls to Circles, Auditorium and elsewhere as directed by the Board of Health.

ELECTRIC BELLS. Provide an electric installation to No.16 points with all necessary zinc tubes, insulated copper wires, battery and indicator to ring in dressing rooms, with high sounding gong and bells as directed, to be operated from press button boards, at prompt desk on stage.

SPEAKING TUBES. Provide No.1 - 1" diameter zinc speaking tube from Prompter's stand to Orchestra, with all necessary elbows, wall hooks and fitted with vulcanized mouth piece and whistle.

SEWERAGE. Note. - All work to be carried out in accordance with the Rules and Regulations of the Board and under the supervision of their Inspectors.

DRAIN PIPES. Provide and lay a 6" diameter main stoneware drain pipe to Board's sewer in Victoria street, with 4" branches, jointed in gasket and cement, with all necessary bends, elbows, junctions and inspection openings, laid to falls and include excavation.

Provide for connecting with Board's sewer.

TRAPS. Provide and fix 6" cast iron boundary trap with base and include excavation to the depth required, and fitted with cast iron cover.

Provide an approved pattern reflux trap, also urinal and disconnector traps as per Sewerage Plans with cement concrete beds.

CLOSET FITTINGS, BASINS AND URINALS. Provide and fix No. ²¹~~20~~ pedestal
bans P.C. 25/- (Twenty five shillings) each with

pence) each. Add for brackets. No. 2 Lavatory basins with plug and washer on wrought iron ornamental brackets, P.C. 60/- (Sixty shillings) each.

No. 49 Lavatory basins with brass plugs and washers, P.C. 7/6 (Seven shillings and six pence) each. No. 8 angle urinals P.C. 12/6 (Twelve shillings and six pence) each; No. 1 slop hopper on wrought iron frame P.C. 60/- (Sixty shillings). No. ~~2~~⁴ cast iron 30" sink with plug and washer, P.C. 30/- (Thirty shillings). No. 29 - 3 gallon Lever or other approved flushing cisterns, secured to wood tablets and iron brackets, plugged to wall.

MARBLE WORK, GENTS CONVENIENCES, DRESS CIRCLE. Provide 1½" polished white Sicilian marble urinal division, 5'6" x 2'0" with quadrant angle and secured to wall with dowels; also line back and return with ¾" white Sicilian marble ~~polished~~ polished on one face, jointed and set in cement. Drill all necessary holes and provide plugs, &c.

LEAD TRAYS. Provide 5 lbs. lead trays under closets and urinals with brass gratings and flap valves, and overflows connected to waste.

WASTES. Provide 3" and 2" diameter wrought iron wastes from urinals, lavatories and sink and carry same down discharging over the disconnector traps.

Provide all necessary elbows, wall hooks etc., and vent same with 24 gauge pipes, with basket ends above roof.

TRAPS WASTES AND VENT PIPES. Provide 1½" diameter 7 lbs. lead P. pipes, with brass screw trap to urinals and lavatory basins. Provide a 2" ditto. trap to sink and slop

flush pipes to cisterns. And provide 1½" ditto. vent pipes fitted with basket ends.

INDUCT AND EDUCT VENTS. Provide where shown on plan a 4" diameter galvanized iron E.V. and I.V. vent pipes of 22 gauge galvanized iron finished with approved vents.

URINAL TROUGH. Provide and fix in W.C. block a 10" half round wrought iron glass enamel trough with grating etc. all as described in Quantities.

Provide the sum of £25.0.0 (Twentyfive pounds) for any additional sewerage required.

SKYLIGHTS. Provide and fix in roof over Scene dock No.4 Deluge skylights of 24 gauge galvanized iron glazed with wire rolled plate glass. Size 6'0" x 3'0"

STEEL CEILINGS ETC

STEEL CEILINGS. Provide stamped steel ceilings P.C. 2/6 per super yard to shops, ground floor, dressing rooms at stage level, Rehearsal room and room adjoining office and No.4 boxes.

MOLDS. Provide steel molds P.C. 6d. per foot run to dressing rooms at stage level and No.4 boxes.

CORNICES. Provide steel cornice mold P.C. 1/- per foot run to shops, Rehearsal room and room adjoining same, also office.

FIXING. Contractor to add for fixing above ceilings and molds etc. Also supply oregon or H.R. battens for same.

SOFFITS OF STAIRS. Line soffits of all escape stairs with No.26 gauge galvanized corrugated iron, 1" flutes lapped one corrugation at side, 3" end lap, and secured with screws and washers to Oregon or H.R. battens.

STEEL DADO. Provide stamped steel dado lining to dados in Auditorium and Dress Circle. P.C. 3/6 per super yard, Contractor to add for fixing same, and supply Oregon or H.R. battens.

SMITH AND FOUNDER

GIRDERS. The girders and rolled steel joists to be of the best quality Siemens Martin steel. All girders having 12" bearing on wall and all resting on $\frac{1}{4}$ " steel templates.

All iron work to have two coats red oxide paint before leaving the Foundry.

BOX GIRDER TO PROSCENIUM. The Box girder to Proscenium to be 32 ft. long with plates, stiffeners, etc., all as per detail, with 12" bearing on walls and resting on $\frac{3}{8}$ " steel templates.

ROLLED STEEL JOISTS. Rolled steel joists to be to the sizes, weights and lengths shown on plan, or detailed in the Bill of Quantities.

TIE RODS. Provide No.5 - $1\frac{1}{4}$ " diameter tie rods to walls of Main front stair, with $\frac{3}{8}$ " steel plate washers.

BRACKET FOR FLAGPOLE. Provide the sum of 25/- P.C. for wrought iron

CRAB WINCHES. Provide the sum of £7.0.0 (Seven pounds) each for the purchase of No.2 Crab winches and provide for carriage, hoisting and painting same.

WROT IRON LADDERS. Provide and fix No.5 wrot iron ladders from stage to Flies and from flies to grid; also from stage to dimmer platform and from Flie to tie beam level with wrot iron strings, rungs, stiffeners, all rivetted together and bolted to wall. (For further particulars see Quantities).

GENERALLY. Provide all necessary bolts and nuts, wrot iron strap bolts and coachscrews that may be required to Circle and Gallery etc., although not definitely specified.

GUARD RAIL. Provide to the Upper Circle 1" galvanized iron pipe rail, bent to sweep, and secured to wrot iron stanchions 9" high, with eyelets and foot plates secured with screws to the handrail, spaced 5'0" apart

HAND RAIL. Provide galvanized iron pipe handrails to all escape and dressing room stairs; also stairs at back of boxes to be 2" diameter wrot galvanized iron rail pipe with ball terminals and secured with wrot iron brackets to walls.

Provide a 3" diameter brass pipe rail polished with all necessary elbows and braised joints, having scrolled ends of ornamental brass to Dress circle Staircase, secured to wall with ornamental scroll brackets leaded in on both sides.

Portion of stairs from vestibule to landing to have an 1½" diameter plush rope handrail with tassel ends. and provide No.4 stanchions each 3'0" high of

ASBESTOS CURTAIN.

Asbestos Curtain to be constructed in accordance with detailed drawings and particulars to be supplied. Size 33'0" x 28'0", standards of 3" x 3" x $\frac{3}{8}$ " angle steel cross rails 2" x 2" x $\frac{3}{8}$ ", steel rivetted together with $\frac{3}{8}$ " gusset pieces at angles, with hoop iron of 1" x $\frac{1}{8}$ " to secure the Asbestos, having bolts and nuts spaced 6" apart, the Asbestos to be in two thicknesses and metallic woven together sliding in frame, having 9" x $\frac{1}{2}$ " vertical plates, bolted to wall and No.2 - $3\frac{1}{2}$ " x $3\frac{1}{2}$ " x $\frac{3}{8}$ " steel angle pieces rivetted together to form box. The running rail of curtain to have small friction rollers to make same easy of action. The curtain to be hung with $\frac{3}{8}$ " Admiralty tested chains over 36" diameter sheave pulleys, with all necessary balance weights. Provide on top rail of curtain No. 2 pins each $\frac{3}{4}$ " diameter, rivetted to angle rail, and to project 1" Form corresponding bore holes in stage floor with iron ferrule screwed and set flush. Provide No.2 rolled steel joists of 5" x $4\frac{1}{2}$ " from tie beams to Proscenium walls with angle pieces of 4" x 3" ditto., bolted to tie beams and together. Provide for double and single sheave blocks $\frac{7}{8}$ " steel wire ropes and iron winch for raising and lowering of curtain.

STRUCTURAL STEEL

The trusses over Auditorium and stage with sliding roof and gearing apparatus to sliding roof and sliding shutter, steel framing of ventilator and steel framing of hanging ceiling; also steel framing of gallery and dress circle floors, columns, etc., to be constructed all as per detailed drawings.

P L A S T E R E R

Internal Work

- MORTAR. Mortar to be gauged 3 parts clean washed sand to 1 part of Ivory cement plaster and setting with Universal finish, 25% of putty plaster can be added to the Universal finish.
- LATHS. Laths of Oregon approved sawn.
- WALLS. Render and float in Ivory cement plaster as above trowelled smooth to walls of shops, vestibule entrances to Stalls, Cafe and stair adjoining, Crush room entrances to Circle, office and stair adjoining rehearsal and room adjoining same; also Ladies and Gents cloak rooms and ticket boxes in front block, walls of Auditorium, Dress Circle and Gallery. Walls of No.4 boxes, also No.5 dressing rooms at Stage level.
- STUD PARTITIONS. Lath and finish in a similar manner the stud partitions at boxes and ladies cloak room first floor, etc., where shown on plans.
- DADO. Finish dado walls of main front staircase in Ivory wood fibro plaster on Portland cement backing, trowelled smooth with 14" x 5" double molded cope on top, and return a 5" deep mold along back wall at level of cope.
- SKIRTING. Run a 12" girt molded skirting in Keene's cement on Portland cement backing to Vestibule and entrances to Stalls.
- DADO MOLD. Run a 6" girt dado mold in Keene's cement on Portland cement backing to Vestibule and entrances to Stalls.

of Ladies and Gents Cloak rooms, Stores, Cafe and Ticket Boxes in front block, soffits of stairs at back Gallery; also passage at side of stage and Property room, ground floor Dressing rooms, Basement, first and second floors, W.C.'s basement and 1st floors, Lime light tank room and wardrobe in back building.

CORNICES. Run 18" girth gauged Plaster cornices to ceilings of Ladies Cloak room ground floor front block Cafe and Ladies and Gents Cloak rooms 1st floor front block; also Ladies room upper floor front block.

CEMENT. Render and set in Portland cement $\frac{3}{4}$ " thick to lower walls of outside convenience and W.C.'s 6'0" high with rounded arris at top of same.

EXTERNAL ANGLES. All external angles to be roughed out 5" girth in Portland cement.

VENT FACES. Provide No.30 ornamental plaster ventilation faces 9" x 6" and fix where directed.

ARCHITRAVE. Run a 12" girth molded architrave to opening at Cafe in Keene's cement on Portland cement backing

INDELIBLO. The walls of basement, limelight tank room stairs, stores, W.C. blocks and Gallery escapes, all dressing rooms (Except those on stage level) passages, stage, Scene dock, Property room and any other portion in back block not otherwise specified to receive two coats Indelliblo.

The underside of joists and flooring to stage and Scene dock is also to receive two coats ditto.

FIBROUS PLASTER WORK

This work to be carried out by a firm approved of by the Architect, and the prices are net and to include for all modelling and labor, fixing etc. The general Contractor to provide and fix all necessary wood work battens etc., where required. Also supply and erect all necessary scaffolding and to afford every facility for the speedy completion of the work.

The prices, including fixing are as follows, viz:-

Vestibule Ceiling	20/-	per super yard
Vestibule Cornice	5/-	per foot run
Entrance to Stalls Ceilings	15/-	per super yard
" " Cornice	5/-	" foot run
2 Pairs Consoles 36" x 14" x 9"	60/-	per pair
Main Stair coved ceiling	30/-	per super yard
" " " Cornice	5/-	per foot run
" " Wall at end of do.	30/-	per super yard
Crush room Ceiling	25/-	" " "
" " Cornice	5/-	" foot run
Dress Circle Entrance Ceiling	20/-	" super yard
" " " Cornice	5/-	" foot run
2 Pair Consoles 36"x 14" x 9" @	60/-	" pair
Auditorium Ceiling	15/-	" super yard
" Saucer	20/-	" " "
" Coves	10/-	" " "
Gallery Ceiling	10/-	" " "
No.10 Ceiling Vents @	9/-	each
Gallery Fronts	20/-	per foot run
Ceilings under ditto.	20/-	" super yard
16 Consoles 36" x 6" x 6" @	30/-	each
Dress Circle Ceilings	15/-	per super yard
Stalls Ceiling	15/-	" " "

EXTERNAL WORK

- MORTAR** Mortar to be composed of 1 part approved Portland cement to 3 parts clean washed sand.
- WALLS** Float and set the walls of front elevation and two returns as shewn, also tops and backs of parapets, copings, etc. etc. in cement mortar.
- MOLDS** Run all molds to detail with neatly formed mitres, stops or returns as required.
- PRESSED CEMENT** All pressed cement work to be fixed as shown on the drawings. The pressed cement balusters to be dowelled top and bottom and the cope to have an $1\frac{1}{2}$ " x $\frac{1}{4}$ " wrot iron flat bar fixed to brick piers to stiffen same. Fix pressed cement pedestals with pieces of iron pipe of sufficient length let into the brickwork.
- SILLS** Cement all window sills to back and side elevations.
- GENERALLY** Point up all lead flashings in cement mortar, also point round all door and window frames.

FURNISHINGS

- DROP CURTAIN** Provide the sum of £80.0.0 (Eighty pounds) P.C. fixed complete for the Drop Curtain in Crimson plush, with all necessary working gear to same.
- BOXES** Provide the sum of £150.0.0 (One hundred and fifty pounds) P.C. for upholstering, curtains, furniture,

CIRCLE & ORCHESTRA RAILS Provide the sum of £35.0.0 (Thirtyfive pounds) P.C. for upholstering Contour rail of Dress Circle.

SEATS Provide the sum of £800.0.0 (Eight hundred pounds) P.C. for seats, to be upholstered in hair and crimson plush. Contractor to provide for fixing and connecting seats to floor with $\frac{1}{4}$ " rods screwed to floor.

CARPETS ETC. Provide the sum of £550.0.0 (Five hundred and fifty pounds) P.C. for carpets, linoleums, and fittings. Contractor to add for carriage, fixing, and laying of same.

MUSIC STANDS Provide the sum of £20.0.0 (Twenty pounds) P.C. for No. 20 Music Stands.

STAGE TRAPS Provide the sum of £10.0.0 (Ten pounds) P.C. for fitting up the No. 2 stage traps.

LIME LIGHT PLANT Provide the sum of £230.0.0 (Two hundred and thirty pounds) for lime light plant which will be supplied and fixed complete.

G L A Z I E R

Glaze the sashes and fanlights in the casement doors of Crush room, Cafe, and Ladies Cloak Room, also upper panels of doors facing Vestibule and Crush room where shown on plan, with lead lights P.C. 4/6 (Four shillings and sixpence) per foot super. All to be fixed with beads.

All other windows to be glazed with 26 oz. best quality sheet glass, to be well sprigged and puttied.

Glaze the fronts with 1" polished plate glass

Glaze with "G" white glass the partitions at Cafe, Office, Lavatories, etc.

CLEANING

Clean all glass both sides and scrub floors twice on completion.

P A I N T E R

MATERIALS

All paint used to be "Maxine" paint from the Maxine Rubber Co., Melbourne, P.C. 11/1 per gallon f.o.b.

WOOD WORK

Knot, stop, and paint 3 coats "Maxine" paint - rub down between each coat - to all wood work inside and outside usually painted and finish same in tints as directed.

STEEL CEILINGS ETC.

Paint two coats zinc white to steel ceilings and small fluted iron soffit of stairs.

EAVES, D.P's., ETC.

Paint two coats "Maxine" paint to all eaves, vent pipes, down pipes, etc.; also pipe hand rail and cast iron columns.

STAGE BORDER

Paint 2 coats dull black to 30" border round flies and bridge.

FRENCH POLISHER

French polish in the best manner all Cedar work to the main staircase and standards of Orchestra rail; also the ticket boxes in Vestibule, and any other Cedar work not specified.

DECORATIONS

Provide the sum of £550.0.0 (Five hundred and fifty pounds) for decorating the inside of Theatre etc., as directed. This work to be carried out according to designs

and Specifications to be provided, and by a firm of Decorators approved of by the Architect.

STREET VERANDAH AND BALCONY

Contractors to state additional price for Street Verandah 88'0" long and 10'0" wide, having No. 7 cast iron columns 6" diameter, of $\frac{3}{4}$ " metal with caps and bases to detail, with Lewis bolts and footstones.

Floor to be of 6" thick reinforced concrete gauged as before specified, and having $\frac{1}{2}$ " diameter steel rods at 4" centres longitudinally and 6" centres horizontally, all wired at intersections with No. 17 gauge wire and supported on 9" x 4" x 21 lbs. R.S. joists as shown on plan connected together with $\frac{1}{2}$ " steel angle plates and resting on $\frac{3}{8}$ " thick templates at wall.

Provide the sum of 12/- P.C. per foot run, of wrought and cast iron balcony railing 42" high; and 25/- P.C. each for No. 2 ornamental corner pieces; also 30/- P.C. each for No. 3 ornamental parts of railing above Entrances. Provide the sum of 2/6 P.C. per foot run for 12" deep cast iron frieze and 15/- P.C. each for No. 12 cast iron ornamental brackets at top of columns; also 35/- P.C. each for No. 4 wrought iron standard lamp holders; Contractor to add for carriage and fixing of above ironwork.

Provide for 2" x 2" x 5/16th" L.iron along bottom of Balcony railing to fix same and provide $\frac{3}{8}$ " bolts and nuts.

Encase the extra depth of R.S.J. to Balcony floor with concrete as before.

Provide all necessary wood sheeting and horsing timbers to concrete floor etc.

Finish floor of Balcony with 1" thick red granolithic as before specified, and form gutter in same.

Provide No. 7 galvanized iron D.P's., 3" diameter inside columns, double rivetted and soldered with shoes at bottom and lead pipes and gratings at top.

Provide all required wood framing and Oregon battens for fixing steel ceilings, cornice molds etc.

Provide the sum of 2/6 P.C. per super yard for steel ceilings and 6d. pr. foot run for cornice molds, P.C. also 2d. P.C. per foot run for angle stiles to external angles of girders. Contractor to allow for fixing same.

Paint steel ceilings and molds with 2 coats zinc white and all other exposed ironwork with 2 coats "Maxine" paint as before specified.

DEPOSIT

A deposit of £100.0.0 (One hundred pounds) to accompany Tender. Tenders to be sent in on the forms attached to the Bill of Quantities and to be addressed to Mr. William Pitt, Architect, C/o Wm. McLean Esq., Bank of N.S.W. Chambers, Lambton Quay, Wellington, N.Z., and marked "Tender for Opera House".

Tenders close

The whole of the work to be carried out to the satisfaction of the City Engineer & in accordance with the P.C. & S.D.