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Republika ng Pilipinas
Kagawaran ng Edukasyon
Tanggapan ng Pangalawang Kalihim

OUA MEMO 00-0621-0120
MEMORANDUM
08 June 2021

For: **Engr. ANNABELLE R. PANGAN**
Chief, Education Facilities Division (EFD)

Subject: **CHANGE OF SCHOOL FURNITURE DESIGN FOR 2021 AND LAST MILE SCHOOLS (LMS) PROJECTS AND REQUEST FOR RECONSIDERATION**

In reference to OUA Memo 00-0521-0141 dated May 20. 2021 regarding the change in the School Furniture Design for CY2021 and Last Mile School (LMS) Project and the EFD Request for Reconsideration dated May 31, 2021, the following is OUA's position vis-à-vis EFD's arguments/grounds:

EFD CONCERN	OUA REPLY
The documents required for the conduct of bidding for the CY2021 School Furniture Program had been submitted to the Procurement Service following the Memorandum issued by the Assistant Secretary for Procurement giving the deadline of submission by May 30,2021. The documents include: a. Approved Authority to Conduct b. Approved Authority to Procure c. Complete Drawings and Technical Specifications d. Recommended Contract Duration and Terms of Payment e. Cost Breakdown of Estimate f. List of Recipient Schools	**At this stage of pre-procurement activity, it is still possible to implement/ introduce changes including modifications on drawings, technical specs, contract duration, costing, and/or recipient schools.** **A Project Modification when deemed necessary can be adopted even if there will be a reduced list of recipient schools.**

Office of the Undersecretary for Administration (OUA)
[Administrative Service (AS), Information and Communications Technology Service (ICTS), Disaster Risk Reduction and Management Service (DRRMS), Bureau of Learner Support Services (BLSS), Baguio Teachers Camp (BTC), Central Security & Safety Office (CSSO)]
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The increase in the cost estimate will reduced the number of recipient schools. Thus, will change all the currently approved documents by the Secretary including therecipient schools, package amount by lot and other project details. The change in the cost estimate will also affect the Approved Budget for the Contract (ABC) submitted for bidding. Nonetheless, the EFD is currently doing market surveys as basis for the proposed 20% increase in unit costof the school furniture.	**An increase in the unit cost of furniture compared to the approved costing will mean a decrease in the number of recipient schools. This new costing however will not affect the Approved Budget for the contract.** **On the issue of the list of recipient schools, possible options are as follows:** **1. Using ratio of 1:45 an increase in the unit cost of furniture shall lessen the list of recipient schools** **2. In consideration of the possible limited face-to-face during the pandemic, the unit cost may be increased while maintaining the list of schools as submitted to DBM that is adopting a 1:20 (or max of 25) classroom:furniture ratio in consideration of social/ physical distancing protocols.** **Either option, the ABC will not be affected.**
The list of recipient schools had been submitted to the Department of Budget and Management (DBM) for the request of Sub Allotment Release Order (SARO).	**For purposes of procurement, we are agnostic. What has been submitted to DBM are still plans. It is still the prerogative of the end-user to finalize recipients.**
In the COA Summary of Audit Observation and Recommendation for CY 2019, the inferiority of materials used in the school furniture was an issue thus DepEd responded that the used of plastic for school furniture will no longer be used in the design of school furniture. Relative to Item iv of this memorandum, the Department have already procured school chairs (armchairs) made of polypropylene plastic in previous years. The plastic armchair becomes brittle for a certain period of time especially when exposed to sun and rain.	**To set the facts straight, the plastic chairs that are proposed are blow molded plastic components with 4mm thickness on both sides with air cushion inside the plastic. The type of chair recommended are chairs that have been used by the private sectors for years, e.g., Philippine Arena, SM Arena, Smart Araneta Coliseum. They have proven to be durable and maintenance-free. Blow molded plastic chairs cost higher but are exceptionally durable and comfortable. The polypropylene chairs DepEd purchased before were solid plastic injection chair of poor quality which became brittle over time, such were delivered as there was no detailed specification for the**

<table>
<tr>
<td></td>
<td>plastic to be used, unlike to what is being proposed at the moment.</td>
</tr>
<tr>
<td>The indication of low quality, poor workmanship and infestation with bukbok (wood borers) cannot be attributedto the design and specification of the approved by the agency. The low quality, poor workmanship and infestationis the result of poor contract implementation and quality control and inspection by the implementing units. The2018 and 2019 school furniture procurement were mostly implemented by the Regional Offices wherein there are regions that procured the all wood design of learner's table and chair.</td>
<td>As had been pointed out, wooden chairs are of low quality, poor workmanship and infested with "bukbuk" (wood borers) and termites. While EFD is attributing these problems to poor implementation which has been a perennial issue, and this poor implementation problem will unfortunately continue and that is the reason why DepEd has to have a budget to replace them constantly. We are totally avoiding wood furniture primarily to eradicate these perennial problems, most especially for the Last Miles Schools which are in termite-infested areas.</td>
</tr>
<tr>
<td>a. Learner's Table
<table>
<tr><th>Component</th><th>EFD Specs</th><th>OUA Specs</th><th>Remarks</th></tr>
<tr><td>Top Board</td><td>18mm thk (with 0.9mm thk HPL on Marine Plywood)</td><td>18mm thk (with 1.0mm thk HPL/1-side Varnish Finish) on Marine plywood</td><td>The HPL of OUA specs is 0.1mm thicker with 1 side varnish paint</td></tr>
<tr><td>Main Frame</td><td>1.00mm thk x 25mm x 50mm Steel Tubular</td><td>1.0mm thk x 20mm x 40mm steel tubular</td><td>The main frame in the design of EFD is larger making it more durable.</td></tr>
<tr><td>Secondary Frame</td><td>1.0mm thk x 18mm x 37mm steel tubular</td><td>1.0mm thk x 20mm x20mm steel tubular</td><td>The secondary frame in the design of EFD will provide a more adequate support for the main frame because of its larger sides</td></tr>
<tr><td>Edging</td><td>Rubberized Paint</td><td>1.00mm thk PVC edging</td><td>Both material are acceptable for edging with proper workmanship</td></tr>
<tr><td>Shelf</td><td>6mm thk (w/ 0.9mm HPL) marine plywood</td><td>Metal Wire Mesh, 4mm x 50mm x 50mm</td><td>The shelf is made of different material. Both will serve the purpose of a shelf.</td></tr>
<tr><td>U-Frame</td><td>10mm x 8mm x 10mm x 0.8mm (all edges of Front Cover)</td><td>None</td><td>The EFD design uses a U-Frame to hold the entire sides of the front cover of the table,</td></tr>
</table>
</td>
<td>HPL specs of new furniture is higher.

The 25x50mm is for 1200mm long table for 2 students. The 20x40mm is just for a single seater 600mm table. The two 25x500mm for 1 table becomes four 20x40mm for 2 tables.

The 18x37mm brace is for the 1200mm table. The 20x20mm brace is for 600mm table.

Edge banding is a better and nicer finishing. It is also more durable and not subjected to paint.

The metal wire mesh is more durable.

The U-frame does not serve any purpose.</td>
</tr>
</table>

b. Learner's Chair

Component	EFD Specs	OUA Specs	Remarks
Seat	18mm thk (with 0.9mm thk HPL on Marine Plywood)	Injected Polypropylene Plastic with Seat Contour Design	The thickness and composition of the polypropylene plastic must be specified for evaluation purposes
Backrest	18mm thk (with 0.9mm thk HPL on Marine Plywood)	Injected Polypropylene Plastic with Back contour Design	The thickness and composition of the polypropylene plastic must be specified for evaluation purposes
Seat Support	22mm dia. B.I Pipe with 1mm x 25mm Flat Bar	1.0mm x 19mm dia. BI Pipe	Diameter of BI Pipe is larger for EFD which will provide sturdier support
Leg Braces	22mm dia BI Pipe	None	The provision of leg braces will make the leg of the chair stronger

The plastic chair is blow mold injection with plastic thickness of 4mm on both sides and air trapped in the middle which makes both seat and back very comfortable.
The brace is not necessary. Its removal makes the chair stackable.

To ensure strength and durability, established standard tests will be applied to sample chairs during Bid opening and evaluation. Random test will be conducted for every number of chairs delivered.

Above responses also apply to Teacher's Chair.

c. Teacher's Table

Component	EFD Specs	OUA Specs	Remarks
Main Frame	0.8mm x 38mm x 38mm Steel Tubular	1.0mm x 30mm x 30mm Steel Tubular	The tubular pipe in the design of EFD is larger making it more durable
Secondary Frame	1.0mm x 25mm x 25mm Steel Tubular	1.0mm x 20mm x 20mm Steel Tubular	The frame in the design of EFD is larger providing a stronger support for the main frame
Front Cover	6mm thk (0.9mm HPL on marine plywood)	0.6mm Cold Roll Steel in Powder Coated Finish with punch hole	The 0.6mm thk sheet used in the OUA design is prone to dents when subjected to impact.
Side Cover	6mm thk (0.9mm HPL on marine plywood)	0.6mm Cold Roll Steel in Powder Coated Finish	The 0.6mm thk sheet used in the OUA design is prone to dents when subjected to impact.
Drawer	1 Drawer Box	2 Drawer Box	OUA has more drawer providing more storage space for teachers
Drawer Guide	Ball Bearing Type	Not Specified	Ball bearing type is a heavy duty drawer type rail
Edging	1mm thk PVC	2mm thk PVC	OUA edging is thicker. Both will serve the purpose with proper workmanship

To ensure strength and durability, established standard tests will be applied to sample chairs during Bid opening and evaluation. Random test will be conducted for every number of chairs delivered.

The side and front table covers are not easy to dent unless with strong physical force, which when equally applied will also destroy marine plywood.

Drawer guides are ball bearing type.

2mm edging is a stronger and better protection for the table top.

To summarize and to reiterate, the following are the **specifications of the new school furniture**:

Plastic Seat and Back:

- All-weather finish made of UV protected High Density Polyethylene (HDPE)
- Blow-molded seat and back with a steel frame
- Seat dimension: 380mm width x 370mm depth
- Backrest dimension: 410mm width x 230mm height
- Stain resistant and easy to clean
- Contoured for comfort
- Indoor/outdoor use

Elementary Chair:

- Seat Height: 392mm
- Seat Depth: 380mm
- Seat Width: 370mm
- Elementary Backrest Dimension:
  Backrest Height: 800mm
  Backrest Width: 410mm

Secondary Chair (Senior and Junior High, including Teacher):

- Seat Height: 412mm
- Seat Depth: 380mm
- Seat Width: 370mm
- Secondary Backrest Dimension (Senior and Junior High):
  Backrest Height: 800mm
  Backrest Width: 410mm

Steel Frame:

- Weight capacity: 250 lbs
- Weight: 3.75 kgs
- Seat and back material: High Density Polyethylene (HDPE)
- Frame Tubing Diameter: 22mm x 1.0mm thickness
- Frame material: powder-coated steel

Model/Drawings (Reference: Attachment to OUA Memo 00-0521-0141 OUA Memo 00-0521-0141 dated May 20. 2021)

- Learner's Chair Primary: LCP-2021-5
- Learner's Chair Secondary: LCS-2021-5

Colors

- Seat: color code #ab957e
- Steel: black

Warranty

- Two Years outright replacement

Reference:

- Plastic seat and back is High Density Polyethylene (HDPE) similar to LIFETIME brand folding chairs (https://www.lifetime.com/lifetime-42810-folding-chair-white)

With these final clarifications on specifications of new school furniture, the EFD is hereby instructed to immediately conduct canvass of available similar chairs in the market and finalize the cost of the new school furniture.

The procurement of the new school furniture must commence immediately within the next week. As such the final specifications and costing must be finalized within the week. The need for these is compelling as the procurement for the Last Mile Schools, which included these new school furniture, has already started.

For your appropriate and immediate action.

ALAIN DEL B. PASCUA
Undersecretary

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Cf: Assistant Secretary Salvador C. Malana III
Procurement and Administration

REPUBLIC OF THE PHILIPPINES
Department of Education
EDUCATION FACILITIES DIVISION
'loor Mabini Bldg., DepED Complex, Meralco Avenue, Pasig City

Office of the Chief

MEMORANDUM

FOR : **ALAIN DEL B. PASCUA**
Undersecretary for Administration

FROM : **ENGR. ANNABELLE R. PANGAN**
Chief, Education Facilities Division

LUIS G. PURISIMA JR.
Assistant Chief for Planning and Design
Education Facilities Division

SUBJECT : **REQUEST FOR RECONSIDERATION ON THE SCHOOL FURNITURE DESIGN FOR CY 2021 SCHOOL FURNITURE PROGRAM**

DATE : **May 31, 2021**

This has reference to OUA Memo 00-0521-0141 dated May 20. 2021 regarding the change in the School Furniture Design for CY 2021 and Last Mile School (LMS) Project and recommending/instructing the use of Polypropylene Plastic (PP) instead of wood for school chairs. The memorandum includes the drawings and technical specifications of the following school furniture to be used for CY 2021 and Last Mile School Project:

a. Student/Learner's Chair made of PP and Steel
b. Student/Learner's Table made of PP and Steel
c. Teacher's Table made of Wood and Steel
d. Teacher's Chair (same with the Student Chair)

The Education Facilities Division is requesting for the reconsideration on the design for the Student/Learner's Table and Chair and Teacher's Table and Chair to be used in the CY 2021 School Furniture Procurement on the following grounds:

i. The documents required for the conduct of bidding for the CY 2021 School Furniture Program have been submitted to the Procurement Service following the Memorandum issued by the Assistant Secretary for Procurement giving the deadline of submission by May 30,2021. The documents include:

a. Approved Authority to Conduct
b. Approved Authority to Procure
c. Complete Drawings and Technical Specifications
d. Recommended Contract Duration and Terms of Payment
e. Cost Breakdown of Estimate
f. List of Recipient Schools

ii. The increase in the cost estimate will reduced the number of recipient schools. Thus, will change all the currently approved documents by the Secretary including the recipient schools, package amount by lot and other project details. The change in the cost estimate will also affect the Approved Budget for the Contract (ABC) submitted for bidding. Nonetheless, the EFD is currently doing market surveys as basis for the proposed 20% increase in unit cost of the school furniture.

iii. The list of recipient schools had been submitted to the Department of Budget and Management (DBM) for the request of Sub Allotment Release Order (SARO).

iv. In the COA Summary of Audit Observation and Recommendation for CY 2019, the inferiority of materials used in the school furniture was an issue thus DepEd responded that the used of plastic for school furniture will no longer be used in the design of school furniture.

v. The indication of low quality, poor workmanship and infestation with bukbok (wood borers) cannot be attributed to the design and specification of the approved by the agency. The low quality, poor workmanship and infestation is the result of poor contract implementation and quality control and inspection by the implementing units. The 2018 and 2019 school furniture procurement were mostly implemented by the Regional Offices wherein there are regions that procured the all wood design of learner's table and chair.

vi. Relative to Item iv of this memorandum, the Department have already procured school chairs (armchairs) made of polypropylene plastic in previous years. The plastic armchair becomes brittle for a certain period of time especially when exposed to sun and rain.

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The significant differences between the technical specifications of EFD and OUA are shown on the table below:

a. Learner's Table

Component	EFD Specs	OUA Specs	Remarks
Top Board	18mm thk (with 0.9mm thk HPL on Marine Plywood)	18mm thk (with 1.0mm thk HPL/1-side Varnish Finish) on Marine plywood	The HPL of OUA specs is 0.1mm thicker with 1 side varnish paint
Main Frame	1.00mm thk x 25mm x 50mm Steel Tubular	1.0mm thk x 20mm x 40mm steel tubular	The main frame in the design of EFD is larger making it more durable.
Secondary Frame	1.0mm thk x 18mm x 37mm steel tubular	1.0mm thk x 20mm x20mm steel tubular	The secondary frame in the design of EFD will provide a more adequate support for the main frame because of its larger sides
Edging	Rubberized Paint	1.00mm thk PVC edging	Both material are acceptable for edging with proper workmanship
Shelf	6mm thk (w/ 0.9mm HPL) marine plywood	Metal Wire Mesh, 4mm x 50mm x 50mm	The shelf is made of different material. Both will serve the purpose of a shelf.
U-Frame	10mm x 8mm x 10mm x 0.8mm (all edges of Front Cover)	None	The EFD design uses a U-Frame to hold the entire sides of the front cover of the table,

b. Learner's Chair

Component	EFD Specs	OUA Specs	Remarks
Seat	18mm thk (with 0.9mm thk HPL on Marine Plywood)	Injected Polypropylene Plastic with Seat Contour Design	The thickness and composition of the polypropylene plastic must be specified for evaluation purposes
Backrest	18mm thk (with 0.9mm	Injected Polypropylene	The thickness and composition of the

	thk HPL on Marine Plywood)	Plastic with Back contour Design	polypropylene plastic must be specified for evaluation purposes
Seat Support	22mm dia. B.I Pipe with 1mm x 25mm Flat Bar	1.0mm x 19mm dia. BI Pipe	Diameter of BI Pipe is larger for EFD which will provide sturdier support
Leg Braces	22mm dia BI Pipe	None	The provision of leg braces will make the leg of the chair stronger

c. Teacher's Table

Component	EFD Specs	OUA Specs	Remarks
Main Frame	0.8mm x 38mm x 38mm Steel Tubular	1.0mm x 30mm x 30mm Steel Tubular	The tubular pipe in the design of EFD is larger making it more durable
Secondary Frame	1.0mm x 25mm x 25mm Steel Tubular	1.0mm x 20mm x 20mm Steel Tubular	The frame in the design of EFD is larger providing a stronger support for the main frame
Front Cover	6mm thk (0.9mm HPL on marine plywood)	0.6mm Cold Roll Steel in Powder Coated Finish with punch hole	The 0.6mm thk sheet used in the OUA design is prone to dents when subjected to impact.
Side Cover	6mm thk (0.9mm HPL on marine plywood)	0.6mm Cold Roll Steel in Powder Coated Finish	The 0.6mm thk sheet used in the OUA design is prone to dents when subjected to impact.
Drawer	1 Drawer Box	2 Drawer Box	OUA has more drawer providing more storage space for teachers
Drawer Guide	Ball Bearing Type	Not Specified	Ball bearing type is a heavy duty drawer type rail
Edging	1mm thk PVC	2mm thk PVC	OUA edging is thicker. Both will serve the purpose with proper workmanship

d. Teacher's Chair

Component	EFD Specs	OUA Specs	Remarks
Seat	18mm thk (with 0.9mm thk HPL on Marine Plywood) with	Injected Polypropylene Plastic with Seat Contour Design	The thickness and composition of the polypropylene plastic must be specified for evaluation purposes

Office of the Chief

	PVC edging		
Backrest	18mm thk (with 0.9mm thk HPL on Marine Plywood) with PVC edging	Injected Polypropylene Plastic with Back contour Design	The thickness and composition of the polypropylene plastic must be specified for evaluation purposes
Front and Back Legs	0.8mm x 38mm x 38mm steel tubular	1.0mm x 22mm dia BI pipe	The front and back legs used by EFD is larger providing the teacher's chair more durable
Leg Brace	1mm x 25mm x 25mm steel tubular	None	The design of EFD is provided with Leg braces for sturdiness of the legs

For your consideration, Sir.

Cc: **Asec. Salvador Malana III**
Assistant Secretary for Administration and Procurement

Republika ng Pilipinas
Kagawaran ng Edukasyon
Tanggapan ng Pangalawang Kalihim

OUA MEMO 00-0521-0141
MEMORANDUM
20 May 2021

For: **Engr. ANNABELLE R. PANGAN**
Chief, Education Facilities Division (EFD)

Subject: **CHANGE OF SCHOOL FURNITURE DESIGN FOR 2021 AND LAST MILE SCHOOLS (LMS) PROJECTS**

Based on various onsite checking and evaluation of school furniture, particularly those delivered in 2018 and 2019, indications of low quality, poor workmanship, and infestation with bukbok (wood borers), were found out, owing perhaps to agency design and specifications.

In the course of the onsite check, probable gaps or failures in the inspections, acceptance and enforcement of warranties were noted. Though limitations in these areas may already be addressed with the institutionalization of a logistics and warehousing system, along with strengthened inspection mechanisms, a revisit of the material specifications and workmanship standards proves helpful and will complement these interventions. A new detailed specifications and standards aimed at ensuring that these gaps are addressed should be welcome under the circumstances. Ultimately, low-quality, poor workmanship and otherwise substandard deliveries will be lessened, if not entirely eliminated.

To address these recurring issues, it is highly recommended/instructed that, instead of wooden chairs, Polypropylene (PP) plastic single chairs be provided for learners (and teachers) for 2021 and for Last Mile Schools projects.

More than this, and very important, PP plastic single chairs will allow maximum physical distancing as prescribed by IATF and health and safety protocols under the Covid-19 pandemic. (We do not wish it, but the pandemic situation will most likely stay for some time.)

Office of the Undersecretary for Administration (OUA)
[Administrative Service (AS), Information and Communications Technology Service (ICTS), Disaster Risk Reduction and Management Service (DRRMS), Bureau of Learner Support Services (BLSS), Baguio Teachers Camp (BTC), Central Security & Safety Office (CSSO)]
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Email: usec.admin@deped.gov.ph; Facebook/Twitter @depedtayo

Following are brief pros and cons of wood and PP plastic chairs.

Change in School Furniture for 2021 and Last Mile Schools Projects	
F R O M Wood Chairs w/ Armrest and 2-seater Wood Benches for Learners	**T O** **Polypropylene (PP) Plastic Single Chairs for Learners and Teachers**
Wood is porous and absorbs water, and when it does, the wood expands/swells and warps causing structural problems. Wood is vulnerable to water damage, rot, fire, decay, termites and wood borers. Although wood may be treated or sealed, commercially available wood/lumber are often not completely seasoned or dried, and are susceptible to *bukbok* infestation.	Made from molding material of injected Polypropylene (PP), considered the safest of all plastics; PP is a robust plastic that is heat resistant and is unlikely to leach even when exposed to warm or hot water. PP plastic chairs are resistant to termites (*anay*) and wood borers (*bukbok)*; they are practical and not easily damaged by rain and floods.
Traditional wood chair w/ armrest and 2-seater wood benches are heavier and pose greater logistical problems.	Single PP Plastic chairs are lighter, can easily be transported, individually carried, moved, stacked, and stored.
2-seater wood benches are bulkier and takes more space. Though practical for use under normal face-face health conditions, they are not adapted to and are not designed to fully implement the physical distancing prescribed under the Covid pandemic.	Single PP plastic chair (as opposed to the traditional single wood chair w/ armrest and 2-seater wood benches) allows maximum prescribed physical distancing under the Covid pandemic health and safety protocols.
Cleaning of wood chairs is often limited to dusting/dry wipes.	PP plastic chairs are easy to clean, and can be sprayed on with liquid sanitizer.

Attached are the drawings and technical specs of **DepEd Student/Learner's Chair** and **Student/Learner's Table** (both using PP and Steel). The PP plastic single chairs will be complemented by individual student/learner's table, both ideal and practical to implement prescribed physical distancing. [Please note that the Teacher's Chair will be the same as the High School (HS) Learner Chair.]

Drawings and technical specs of **DepEd Teacher's Table** (using Wood and Steel) is also attached for reference/guidance.

Color of steel is black, and all the other materials is Tortilla (Color Code HEX #ab957e; RGB 171, 149, 126; CMYK 0%, 13%, 26%, 33%).

The original intent is to implement change in furniture design at same costing, that is, with no additional cost. However, the shift in furniture design from "double" to "single" format to allow and consider proper physical distancing will incur additional materials due to additional steel/metal legs. Note that iron ore prices have significantly increased: iron ore price of $87.68 (USD) per dry metric ton unit (dtmu) in February 2020 already cost $164.77 (USD) in February 2021.

The other factor to consider in this Covid pandemic situation is the logistics cost. While delivery is to DepEd warehouses, the whole value chain got affected, from raw materials sourcing, manufacturing, packaging, and delivery. Delivery is only at the last stage of the whole process.

All said, the cost may need to be increased by 20%.

For your appropriate and immediate action.

ALAIN DEL B. PASCUA
Undersecretary

Cf: Assistant Secretary Salvador Malana III
Procurement and Administration

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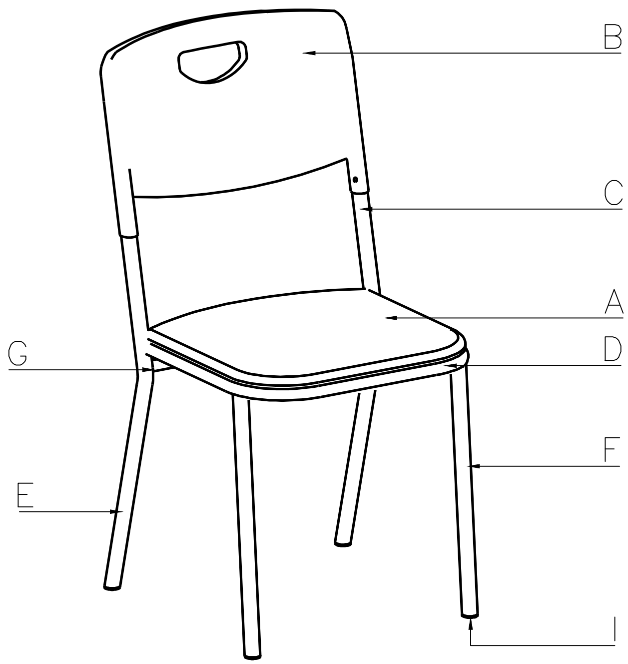


1/1 ISOMETRIC VIEW OF LEARNER'S CHAIR
SCALE —M

DIMENSIONS OF LEARNER'S CHAIR(mm)

COMPONENTS	DIMENSIONS	
	ELEMENTARY	SECONDARY
SEAT HEIGHT	392	412
SEAT DEPTH	380	380
SEAT WIDTH	370	370
BACK HEIGHT	800	800
BACK WIDTH	410	410

1 TECHNICAL SPECIFICATIONS OF LEARNER'S CHAIR

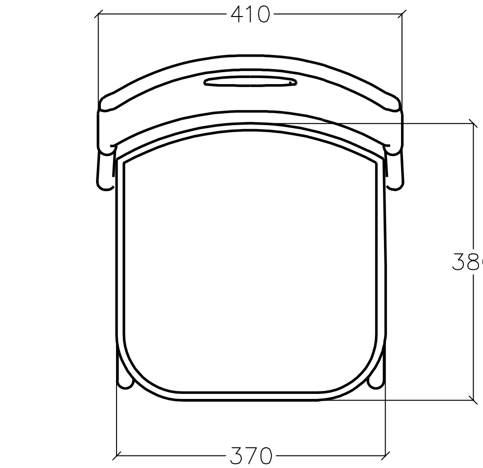
MARK	COMPONENTS	SPECIFICATIONS
A	SEAT	INJECTED PP WITH SEAT CONTOUR DESIGN
B	BACK	INJECTED PP WITH BACK CONTOUR DESIGN
C	BACK SUPPORT	BI PIPE TUBE 1.0MMX22MMØ
D	SEAT SUPPORT	BI PIPE TUBE 1.0MMX19MMØ
E	BACK LEG	BI PIPE TUBE 1.0MMX22MMØ
F	FRONT LEG	BI PIPE TUBE 1.0MMX22MMØ
G	LOWER SEAT SUPPORT	SQ. TUBE 1.0MMX19MMX19MM
I	COVER CAP	ROUND RUBBER
	PP TO STEEL:	BACK PP TO STEEL – SELF TAPPING SCREW
		SEAT PP TO STEEL – 1MM THK 25MMX30MM FLAT BAR, M6X12 BOLT

SCHEDULE OF FINISHES

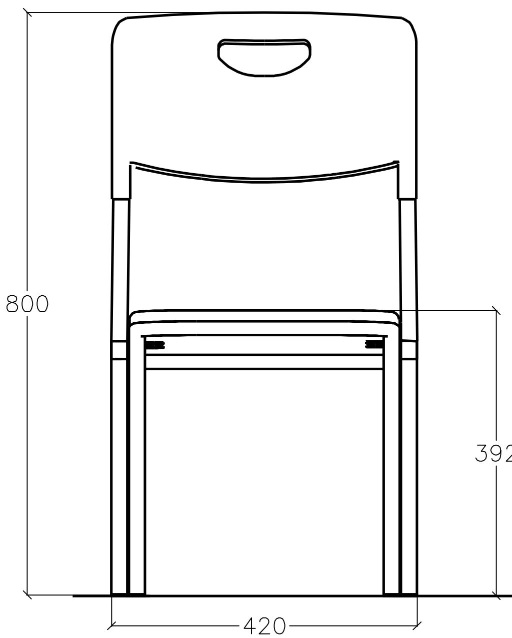
INJECTED PP	POLYPROPYLENE TEXTURE FINISH
METAL/STEEL TUBULAR	60–80 MICRON POWDER COAT FINISH FLAT BLACK FINISH
PP COLOR	PP COLOR FINISHES

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	PREPARED BY: DIANE C. ERLANO ARCHITECT	RECOMMENDING APPROVAL: ENGR. ANNABELLE R. PANGAN CHIEF–EDUCATION FACILITIES DIVISON	APPROVED BY: ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	PROJECT TITLE: LEARNER'S CHAIR (PP & STEEL) LCP–2021–5/LCS–2021–5 CV: 2021	SHEET CONTEXT: TECHNICAL SPECIFICATION, SCHEDULE OF FINISHES, EDGING APPLICATION, DIMENSIONS, ISOMETRIC VIEW	SHEET NO. 1/5

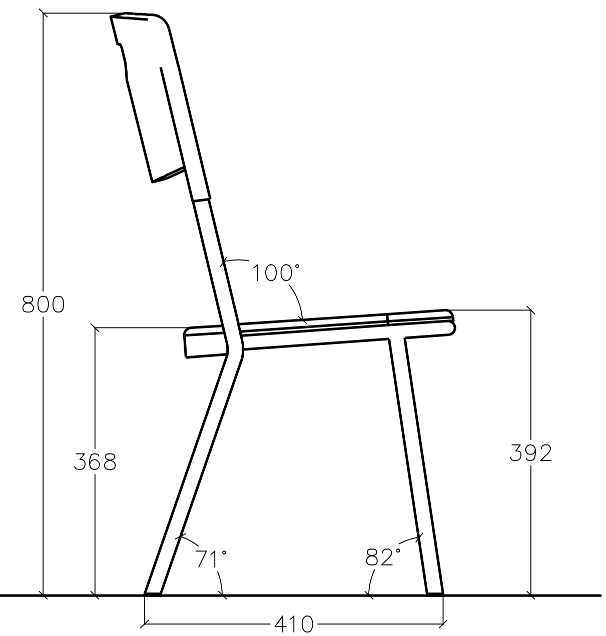
DEPED ELEMENTARY STUDENT CHAIR



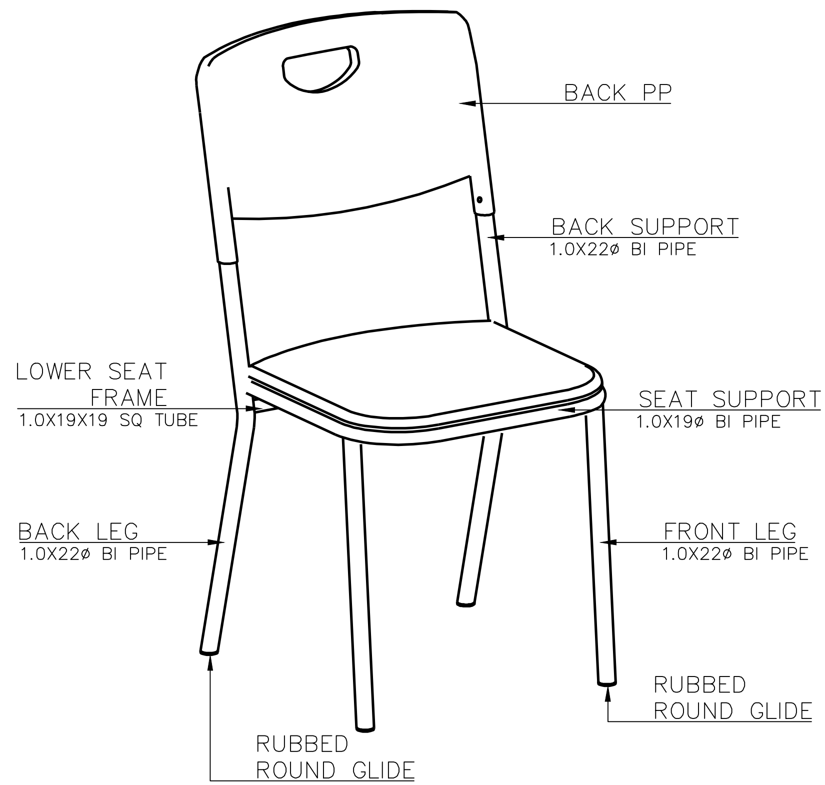
TOP VIEW



FRONT VIEW



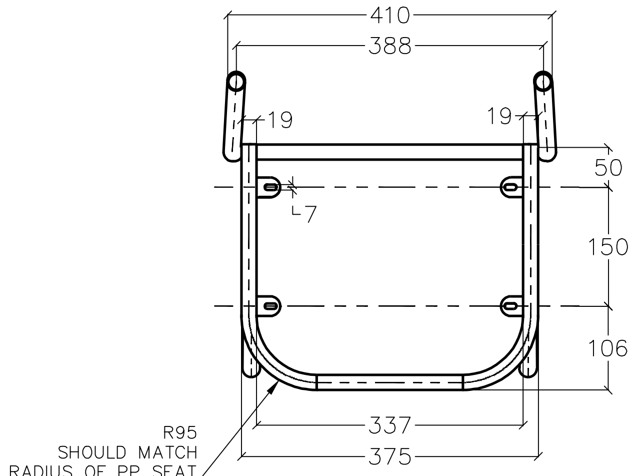
SIDE VIEW



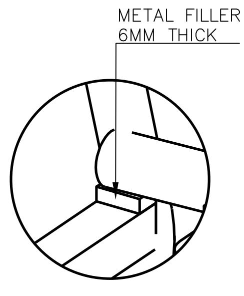
LEARNER'S CHAIR
PERSPECTIVE VIEW

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	LEARNER'S CHAIR (PP & STEEL) LCP-2021-5 CV: 2021	TECHNICAL SPECIFICATION SCHEDULE OF FINISHES EDGING APPLICATION DIMENSIONS ISOMETRIC VIEW	2 5

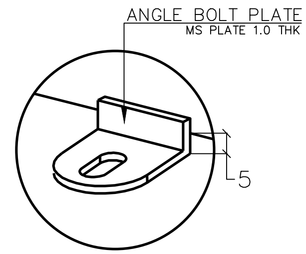
DEPED ELEMENTARY STUDENT CHAIR



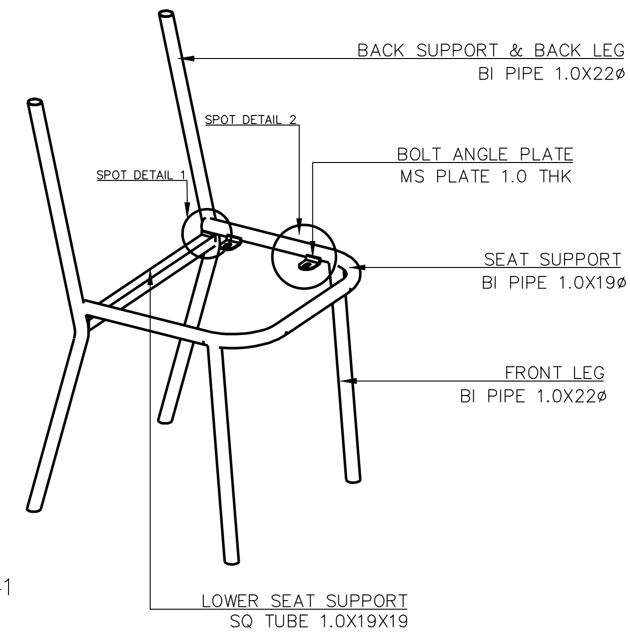
TOP VIEW



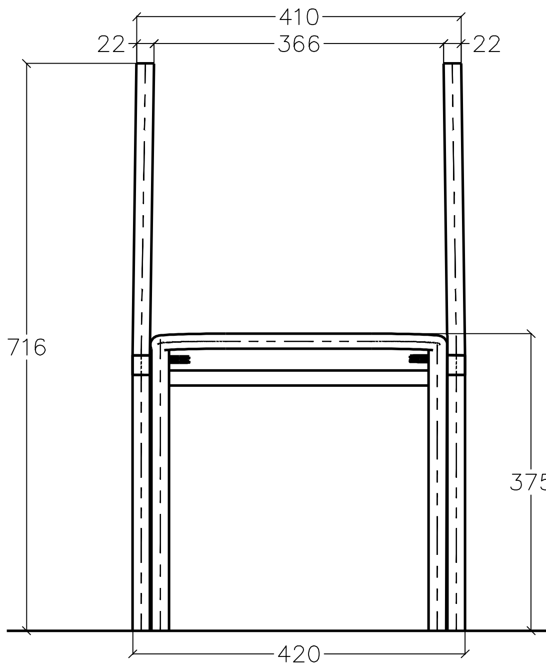
SPOT DETAIL 1



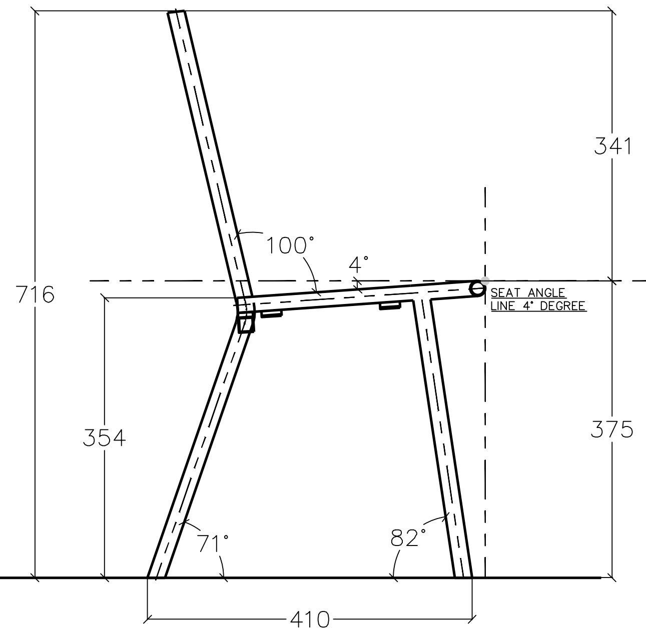
SPOT DETAIL 2



PERSPECTIVE VIEW



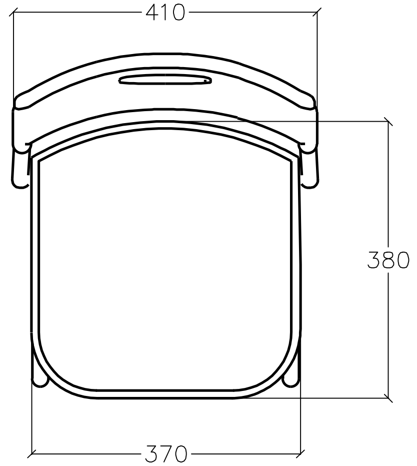
FRONT VIEW



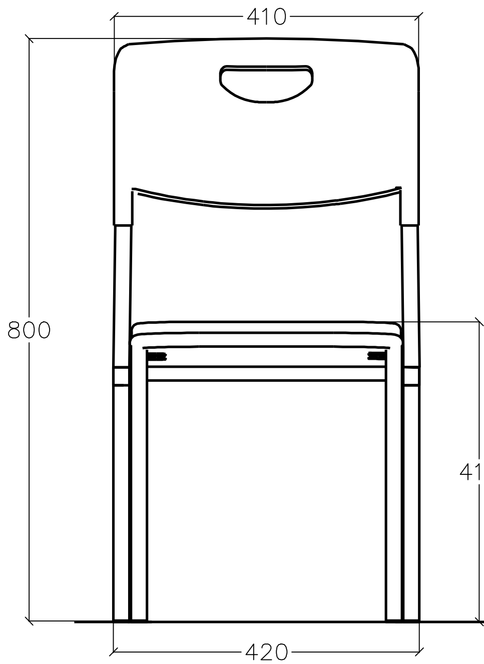
SIDE VIEW

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	LEARNER'S CHAIR (PP & STEEL) LCP-2021-5 CV: 2021	TECHNICAL SPECIFICATION SCHEDULE OF FINISHES EDGING APPLICATION DIMENSIONS ISOMETRIC VIEW	3 5

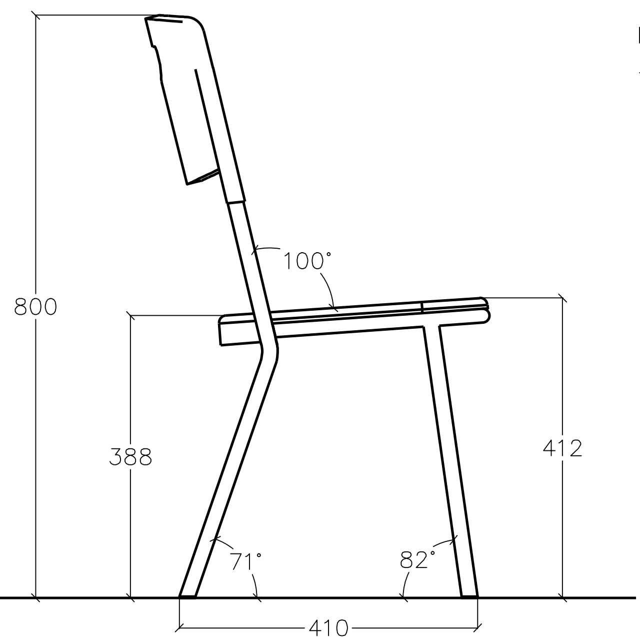
DEPED SECONDARY STUDENT CHAIR



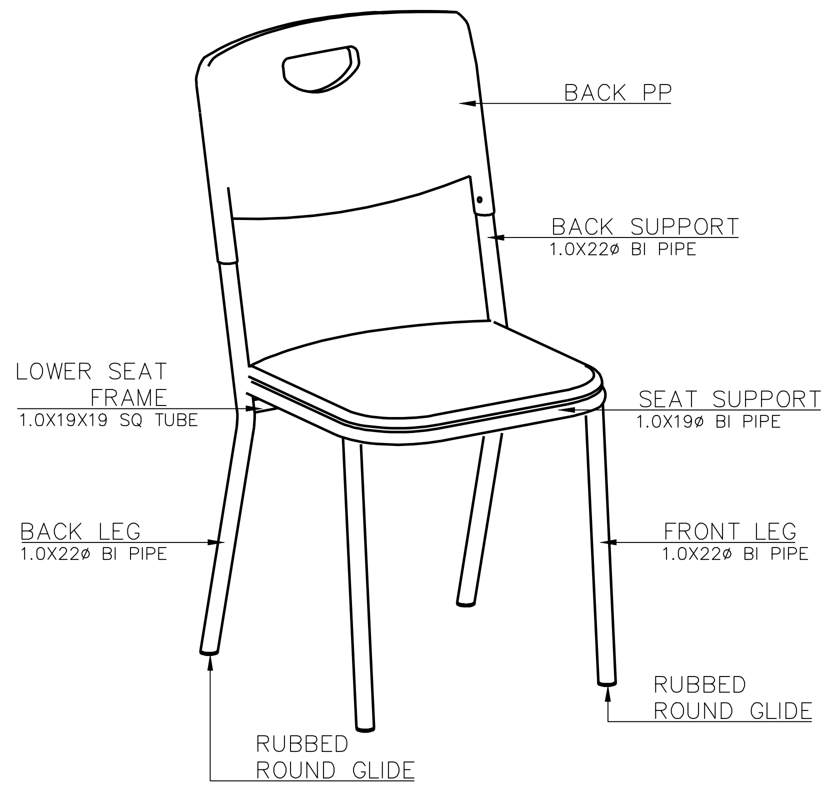
TOP VIEW



FRONT VIEW



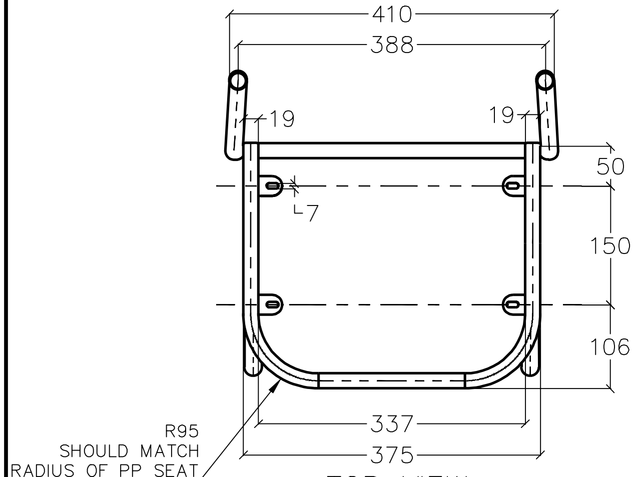
SIDE VIEW



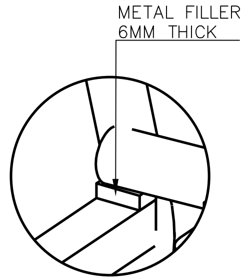
LEARNER'S CHAIR
PERSPECTIVE VIEW

REPUBLIC OF THE PHILLIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF–EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	LEARNER'S CHAIR (PP & STEEL) LCS–2021–5 CV: 2021	TECHNICAL SPECIFICATION SCHEDULE OF FINISHES EDGING APPLICATION DIMENSIONS ISOMETRIC VIEW	4 5

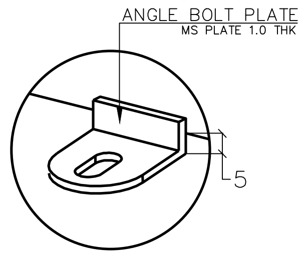
DEPED SECONDARY STUDENT CHAIR



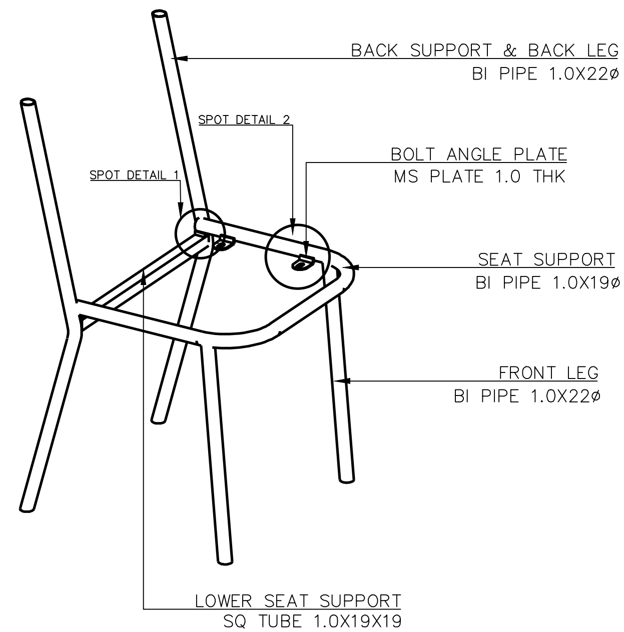
TOP VIEW



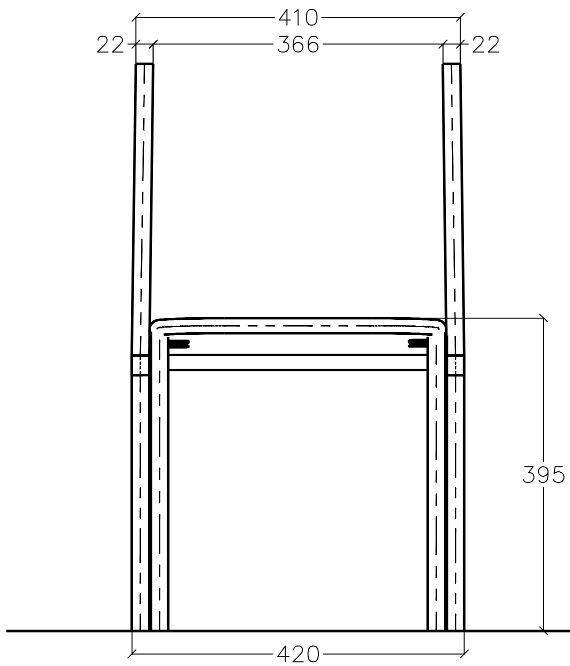
SPOT DETAIL 1



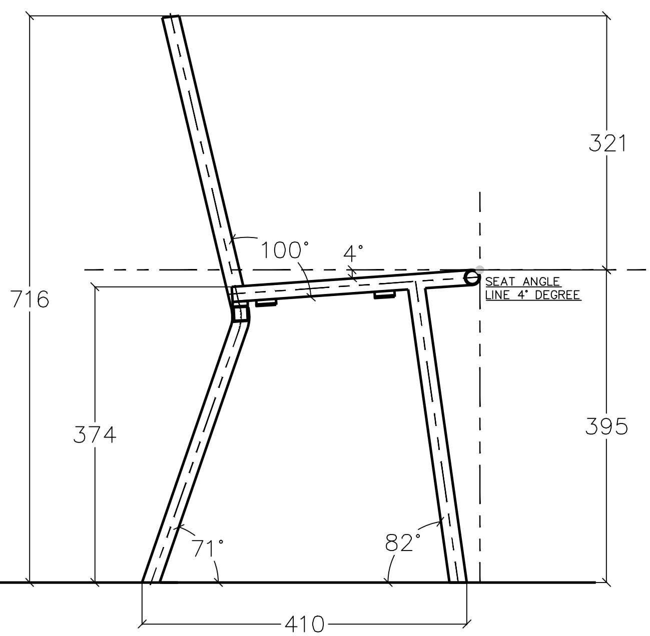
SPOT DETAIL 2



PERSPECTIVE VIEW



FRONT VIEW



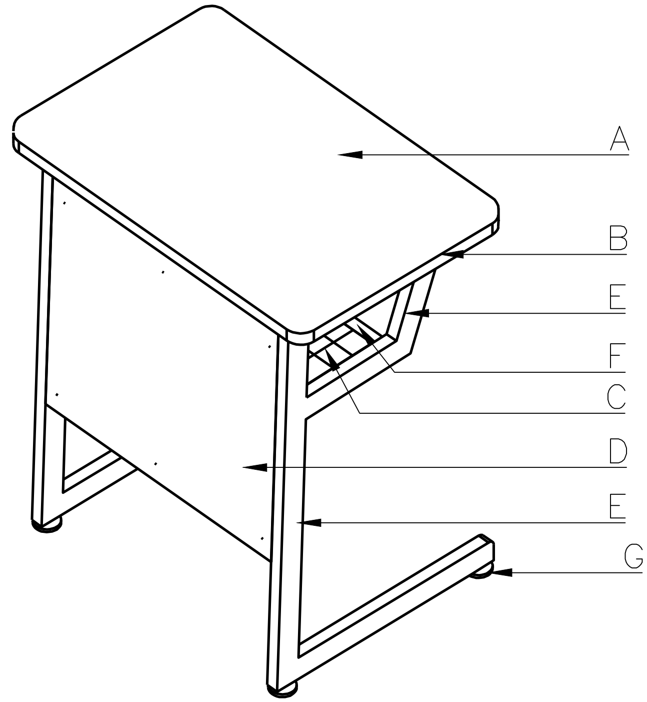
SIDE VIEW

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	LEARNER'S CHAIR (PP & STEEL) LCS-2021-5 CV: 2021	TECHNICAL SPECIFICATION SCHEDULE OF FINISHES EDGING APPLICATION DIMENSIONS ISOMETRIC VIEW	5 5

1	TECHNICAL SPECIFICATIONS OF LEARNER'S TABLE	
MARK	COMPONENTS	SPECIFICATIONS
A	TABLE TOP	18MM THK TOP BOARD ROUND CORNER'S (1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE/1 SIDE VARNISH FINISHES ON MARINE PLYWOOD)
B	EDGING	1.0 MM THK PVC EDGING, ALL EDGES OF TABLE TOP
C	SHELF	METAL WIRE MESH 4MMTHKX50X50
D	FRONT COVER	6MM THK FRONT COVER (1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE / 1 SIDE VARNISH FINISHES ON MARINE PLYWOOD)
E	MAIN FRAME	1.0MMTHKX20MMX40MM STEEL TUBULAR
F	SECONDARY FRAME	1.0MMTHKX20MMX20MM STEEL TUBULAR
G	ADJUSTABLE LEVELER	8MMø THREAD WITH 38MMø PLASTIC BASE
	CONNECTOR/FLAT BAR	1MMTHKX25MMX50MM STEEL FLAT BAR (TABLE TOP: 4PCS; SCREW)
	CONNECTION	WOOD TO STEEL: SCREW: M5X12MM LENGTH SCREW: RIVETS: BLIND RIVET STEEL TO STEEL: FULL WELDING FOR TUBULAR TO FLAT BAR/CONNECTION

2a	SCHEDULE OF FINISHES
TOP BOARD	1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE / 1 SIDE VARNISH FINISHES ON MARINE PLYWOOD
EDGING	1.0 MM THK PVC EDGING, ALL EDGES OF TABLE TOP
FRONT COVER	1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE /1 SIDE VARNISH FINISHES ON MARINE PLYWOOD)
METAL/STEEL TUBULAR	60-80 MICRON POWDER COAT FINISH FLAT BLACK FINISH
LAMINATE COLOR	SERANO BEECH OR EQUIVALENT

2b	EDGING - APPLICATION
1	MACHINE APPLICATION OF GLUE TO TABLE TOP EDGES
2	MACHINE APPLICATION OF PVC EDGING TO TABLE TOP EDGES

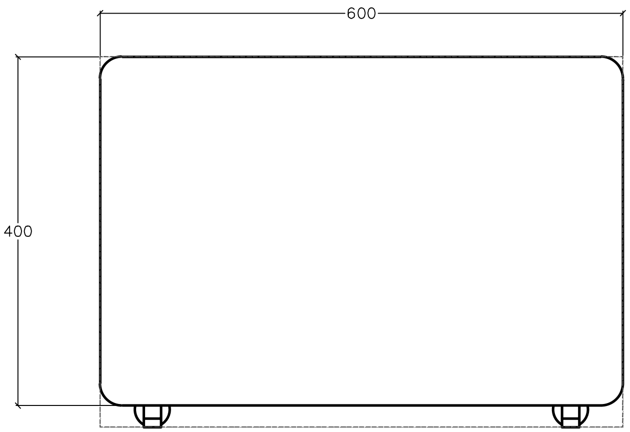


1/1 ISOMETRIC VIEW OF LEARNER'S TABLE
SCALE -M

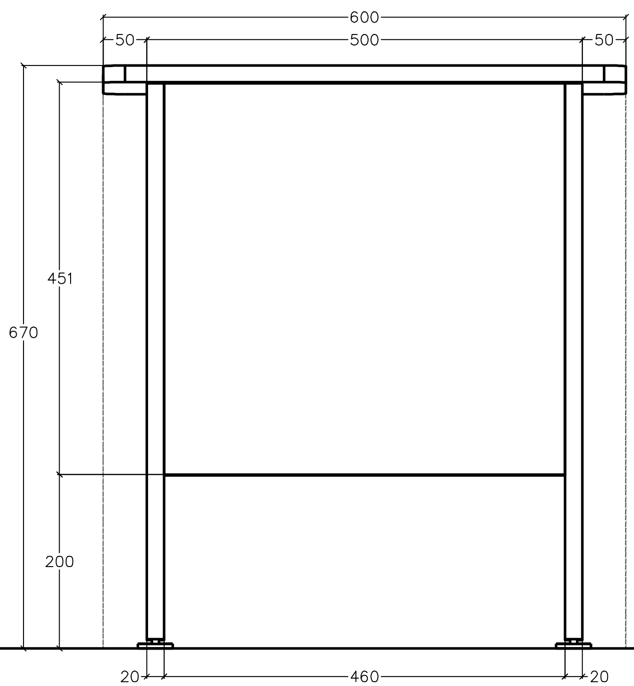
3	DIMENSIONS OF LEARNER'S TABLE(mm)		
MARK	COMPONENTS	DIMENSIONS	
		ELEMENTARY	SECONDARY
a	TABLE HEIGHT	670 (+-10)	710 (+-10)
b	TABLE LENGTH	600	600
c	TABLE WIDTH	400	400

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	PREPARED BY: DIANE C. ERLANO ARCHITECT	RECOMMENDING APPROVAL: ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVSON	APPROVED BY: ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	PROJECT TITLE: LEARNER'S TABLE (WOOD & STEEL) LTP 2021-5/LTS 2021-5 CV: 2021	SHEET CONTEXT TECHNICAL SPECIFICATION SCHEDULE OF FINISHES EDGING APPLICATION DIMENSIONS ISOMETRIC VIEW	SHEET NO. 1/3

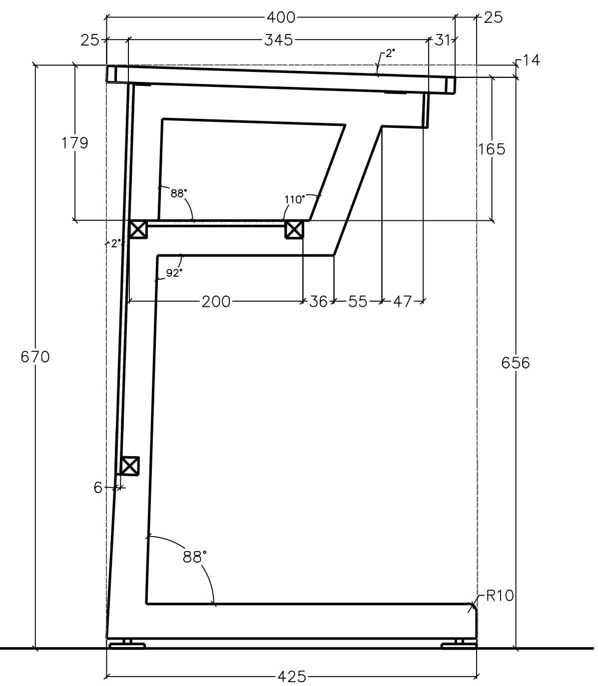
DEPED ELEMENTARY SINGLE STUDENT TABLE



TOP VIEW



FRONT VIEW



SIDE SECTION VIEW

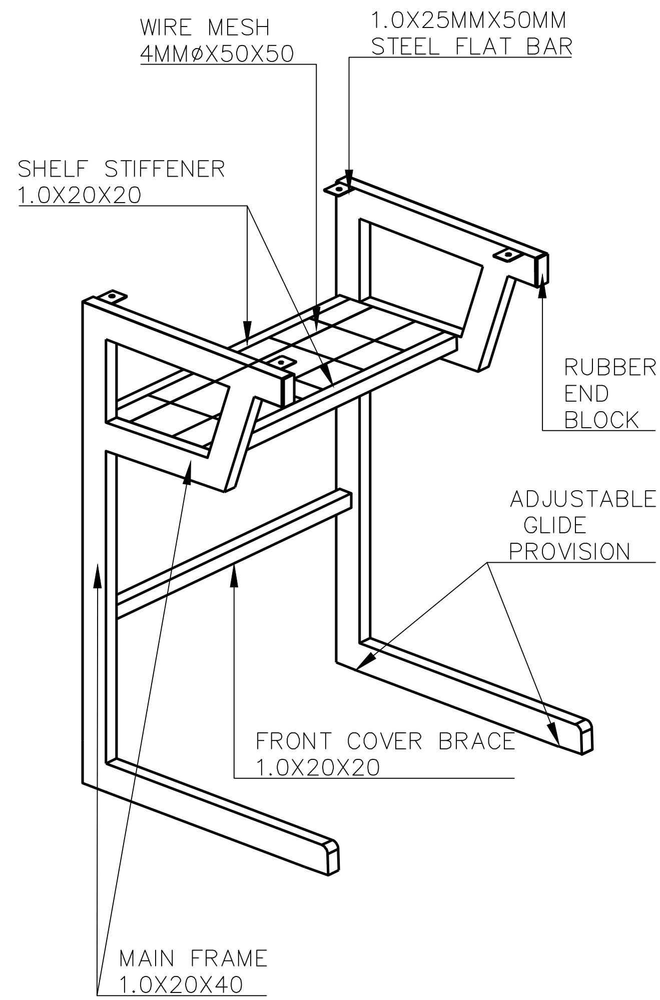
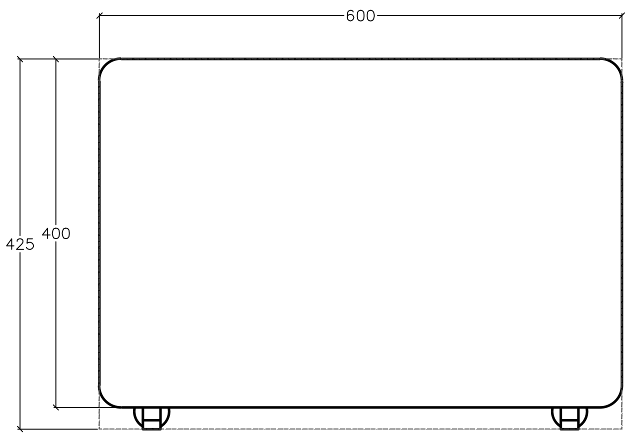


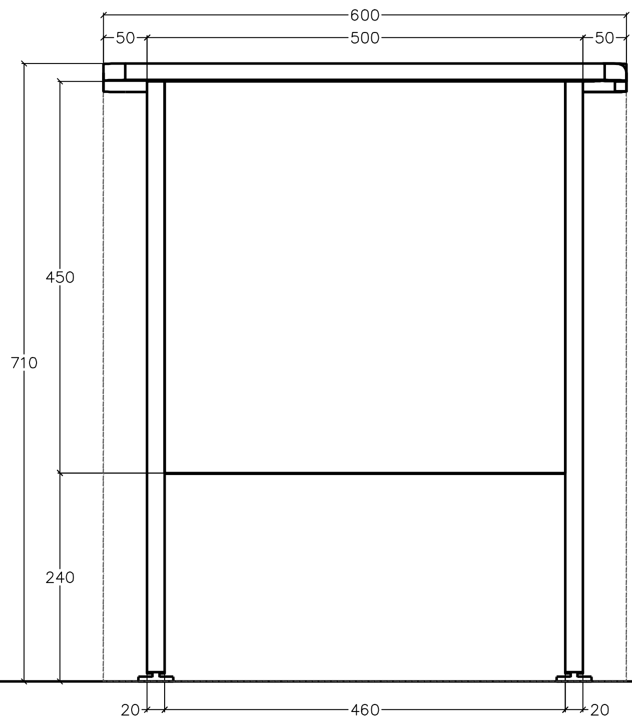
TABLE FRAMING
PERSPECTIVE VIEW

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	LEARNER'S TABLE (WOOD & STEEL) LTP 2021-5 CV: 2021	TOP VIEW DETAIL SIDE SECTION VIEW DETAIL FRONT VIEW SECTION TABLE FRAMING PERSPECTIVE VIEW	2 3

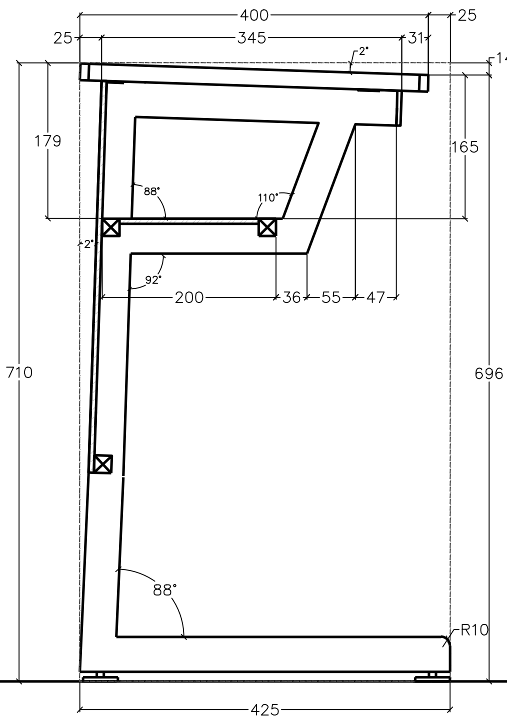
DEPED SECONDARY SINGLE STUDENT TABLE



TOP VIEW



FRONT VIEW



SIDE SECTOION VIEW

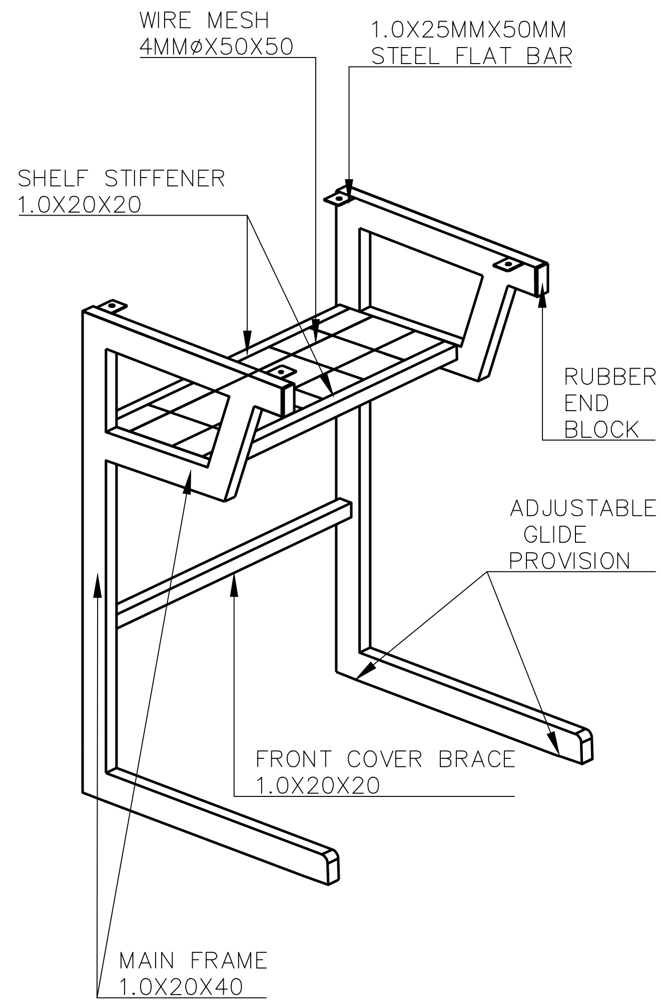


TABLE FRAMING
PERSPECTIVE VIEW

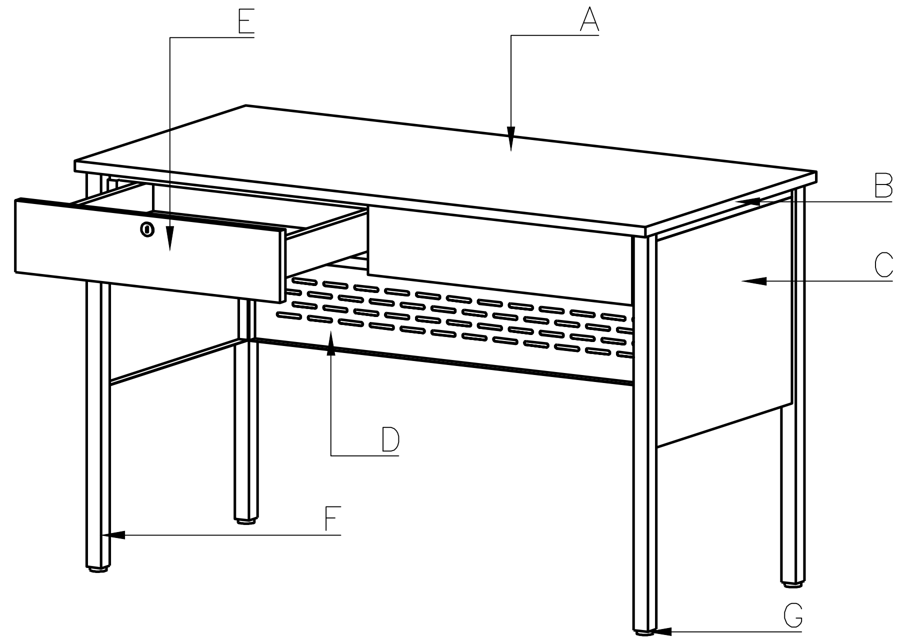
REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	LEARNER'S TABLE (WOOD & STEEL) LTS 2021-5 CV: 2021	TOP VIEW DETAIL SIDE SECTION VIEW DETAIL FRONT VIEW SECTION TABLE FRAMING PERSPECTIVE VIEW	3 3

1	TECHNICAL SPECIFICATIONS OF TEACHER'S TABLE

MARK	COMPONENTS	SPECIFICATIONS
A	TABLE TOP	18MM THK TOP BOARD ROUND CORNER'S (1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE /1 SIDE VARNISH FINISHES ON MARINE PLYWOOD)
B	EDGING	2.0MM THICK PVC EDGING
C	SIDE COVER	0.6MM THICK COLD ROLL STEEL IN POWDER COATED FINISHES
D	FRONT COVER	0.6MM THICK COLD ROLL STEEL IN POWDER COATED FINISHES WITH PUNCH HOLE DESIGN
E	PULL OUT DRAWER	DRAWER FACE : 1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE / 1 SIDE VARNISH FINISHES ON MARINE PLYWOOD
		DRAWER BOX : 0.6MM THICK COLD ROLL STEEL IN POWDER COATED FINISHES DRAWER LOCK : 1 LOCK ONLY PER TABLE
F	MAIN FRAME	1.0MMTHKX30MMX30MM STEEL TUBULAR
	SECONDARY FRAME	1.0MMTHKX20MMX20MM STEEL TUBULAR
G	ADJUSTABLE LEVELER	8MMø THREAD WITH 38MMø PLASTIC BASE
	CONNECTOR	METAL FRAME BAR AND SCREW
	CONNECTION	WOOD TO STEEL: SCREW: WOOD SCREW STEEL TO STEEL: FULL WELDING FOR TUBULAR TO FLAT BAR/CONNECTION STEEL TO STEEL (KNOCKDOWN OPTION): BOLT AND NUT FOR STEEL TUBULAR

2a	SCHEDULE OF FINISHES
TOP BOARD	18MM THK TOP BOARD ROUND CORNER'S (1 SIDE 1.0MM THK HIGH PRESSURE LAMINATE /1 SIDE VARNISH FINISHES ON MARINE PLYWOOD)
EDGING	2.0MM THICK PVC EDGING
SIDE/FRONT COVER	60-80 MICRON POWDER COAT FINISH FLAT BLACK FINISH
METAL/STEEL TUBULAR	60-80 MICRON POWDER COAT FINISH FLAT BLACK FINISH
LAMINATE COLOR	SERANO BEECH OR EQUIVALENT

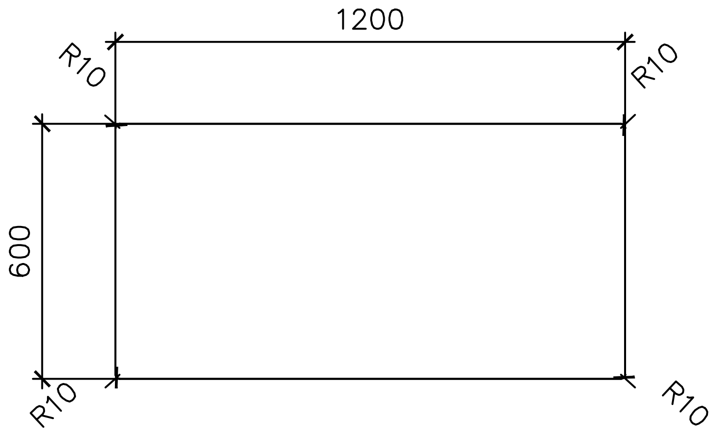
2b	EDGING - APPLICATION
1	GLUE APPLICATION ON EDGE OF TABLE TOP
2	APPLY PVC EDGING AND TRIM AND CLEAN



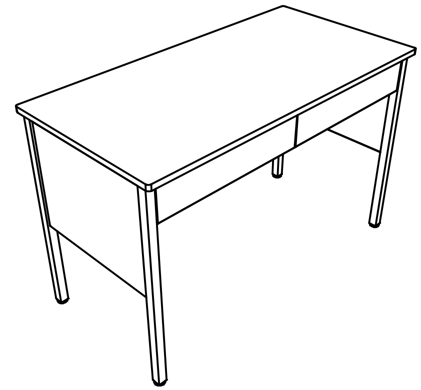
1/1 ISOMETRIC VIEW OF TEACHER'S TABLE
SCALE -M

3	DIMENSIONS OF TEACHER'STABLE(mm)		
MARK	COMPONENTS	DIMENSIONS	REMARKS
a	TABLE HEIGHT	750	ALL DIMENSION SHALL BE SUBJECTED TO A MAXIMUM TOLERANCE OF PLUS MINUS 10MM
b	TABLE LENGTH	1200	
c	TABLE WIDTH	600	
d	SIDING/FRONT COVER	380	

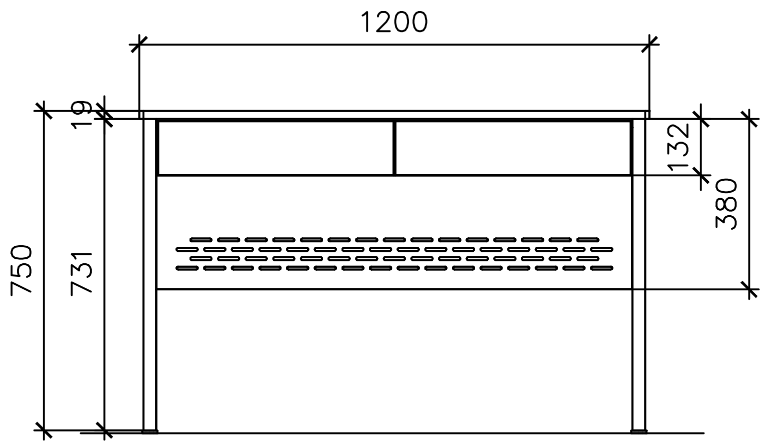
REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE PASIG CITY	PREPARED BY: DIANE C. ERLANO ARCHITECT	RECOMMENDING APPROVAL: ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	APPROVED BY: ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	PROJECT TITLE: TEACHER'S TABLE (WOOD & STEEL) TTA-2021-5 CV: 2021	SHEET CONTEXT TECHNICAL SPECIFICATION SCHEDULE OF FINISHES EDGING APPLICATION DIMENSIONS ISOMETRIC VIEW	SHEET NO. 1 6



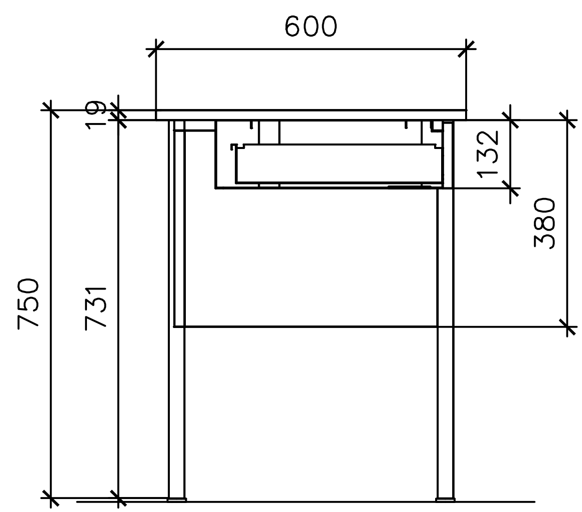
PLAN



PERSPECTIVE



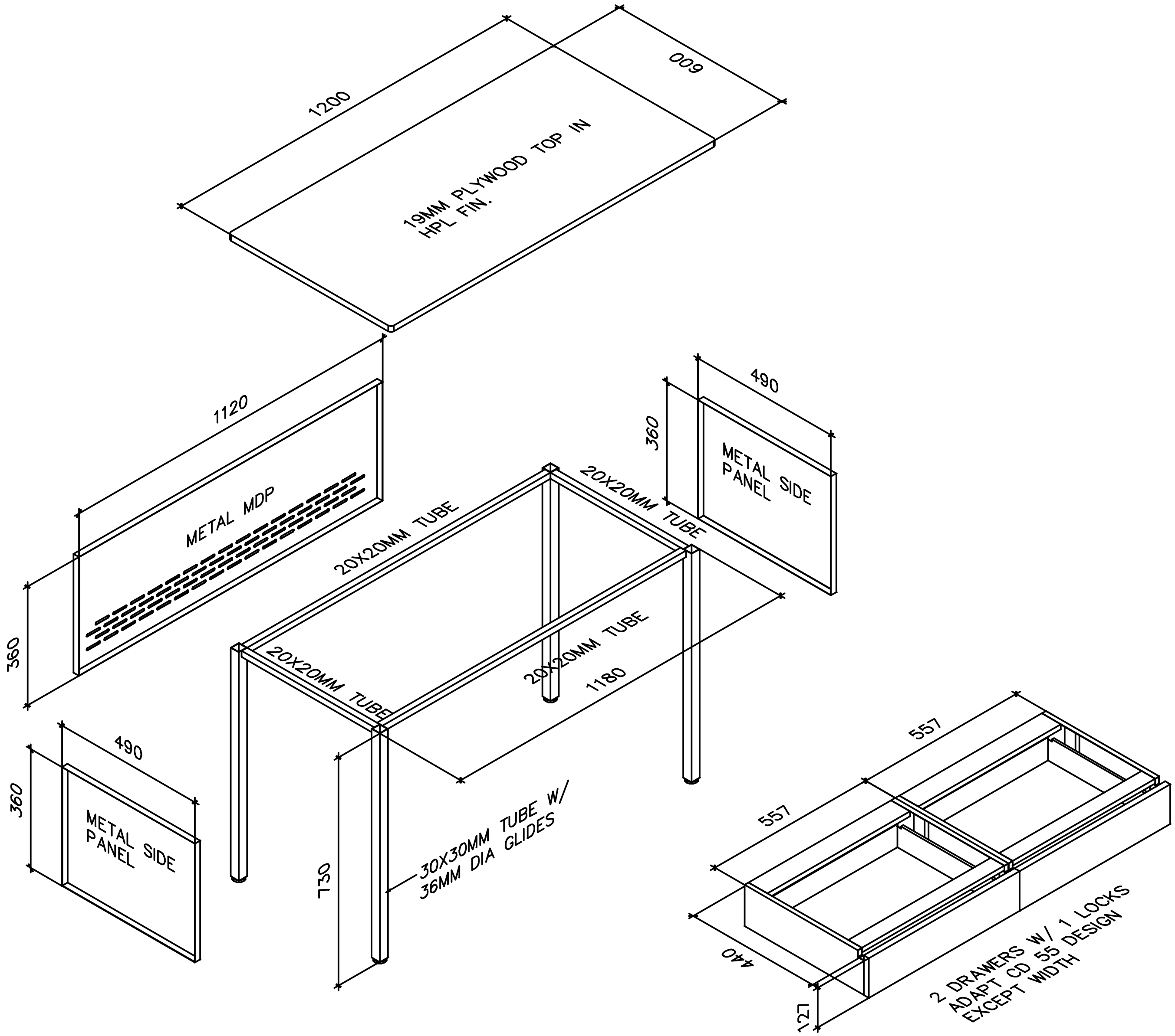
FRONT ELEV.



SECTION

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	TEACHER'S TABLE (WOOD & STEEL) TTA-2021-5 CV: 2021		2 6

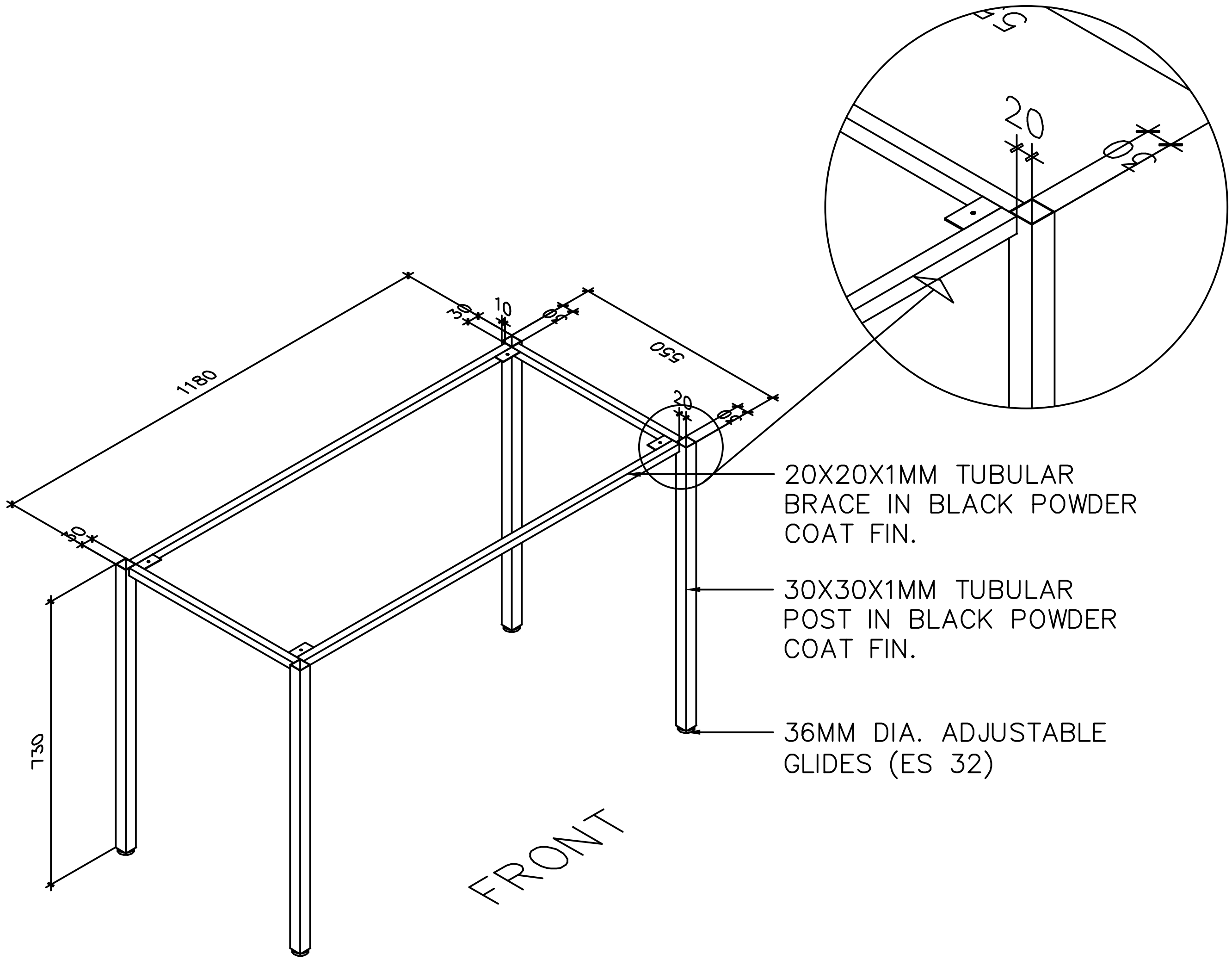
TEACHER'S TABLE



EXPLODED VIEW

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	TEACHER'S TABLE (WOOD & STEEL) TTA-2021-5 CV: 2021		3 / 6

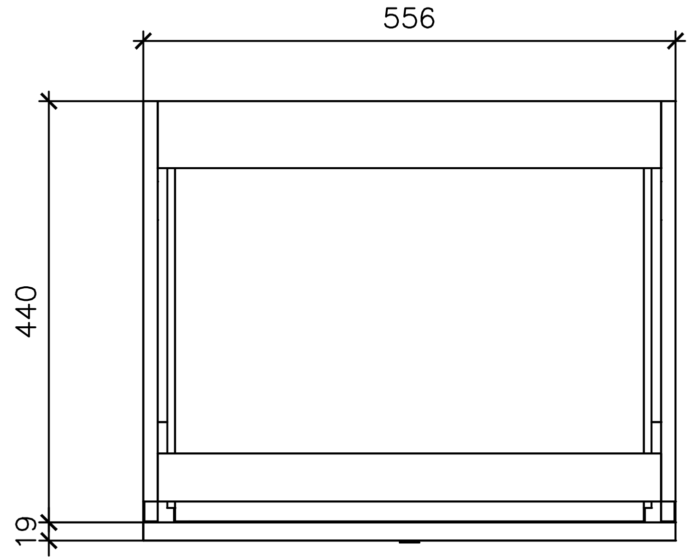
METAL FRAMING DETAIL



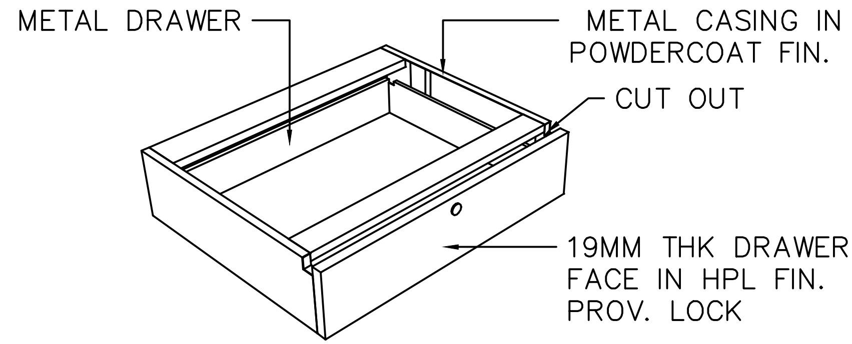
PERSPECTIVE

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	TEACHER'S TABLE (WOOD & STEEL) TTA-2021-5 CV: 2021		4 / 6

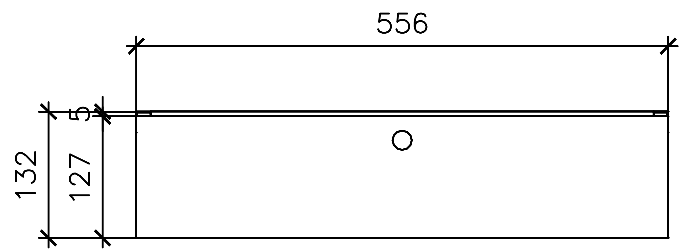
METAL CENTRAL DRAWER DETAIL



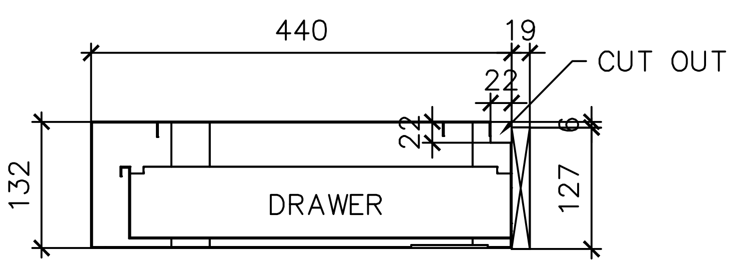
PLAN



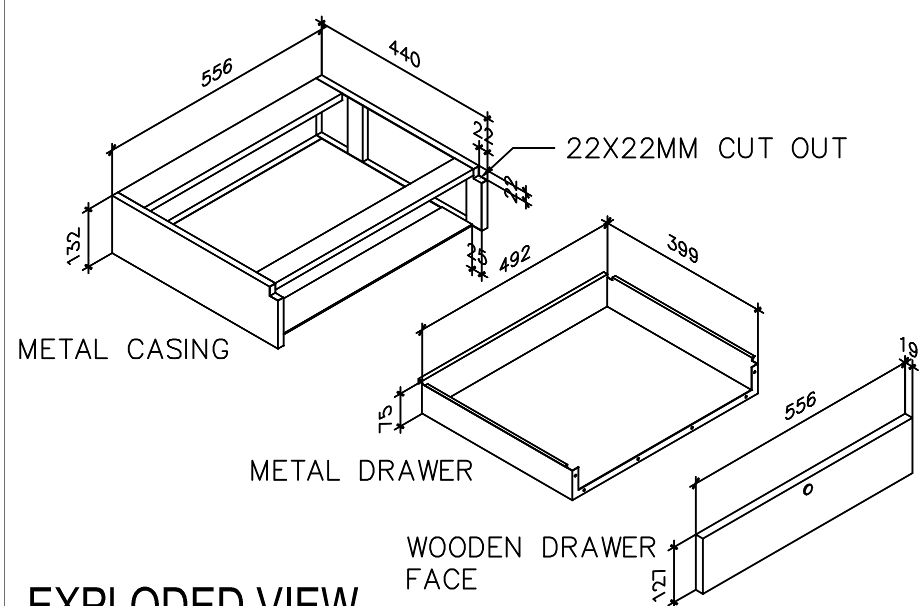
PERSPECTIVE



FRONT ELEV.



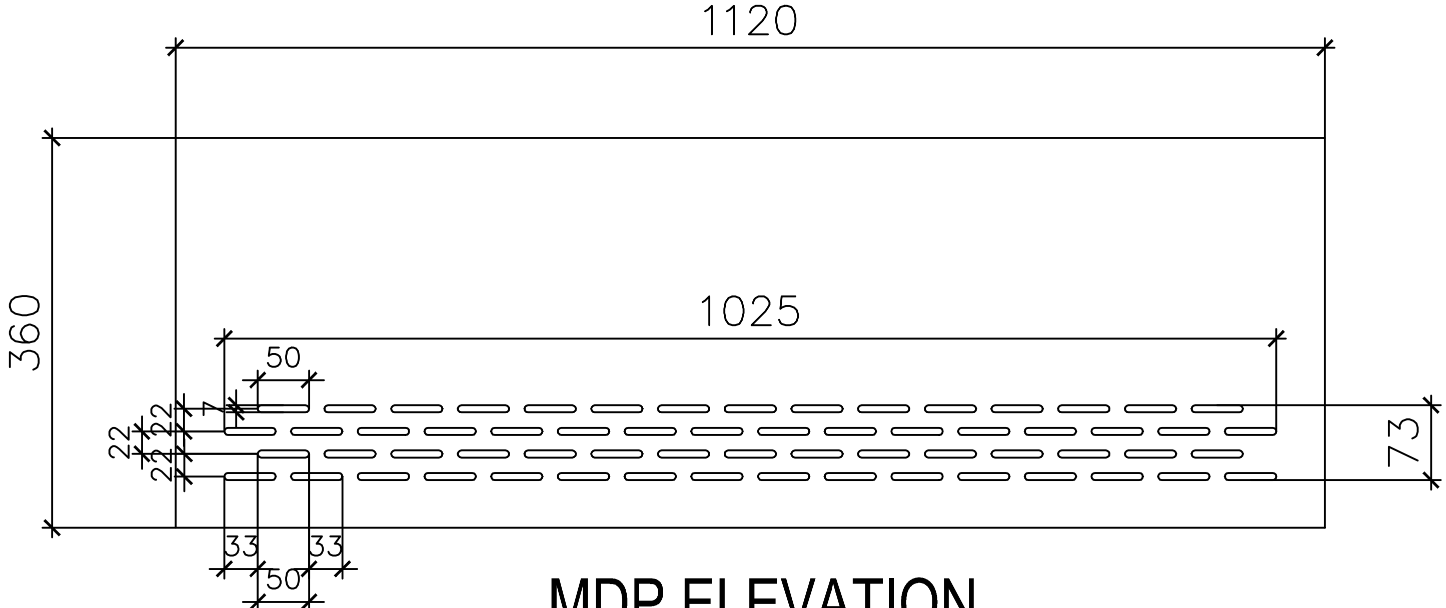
SECTION



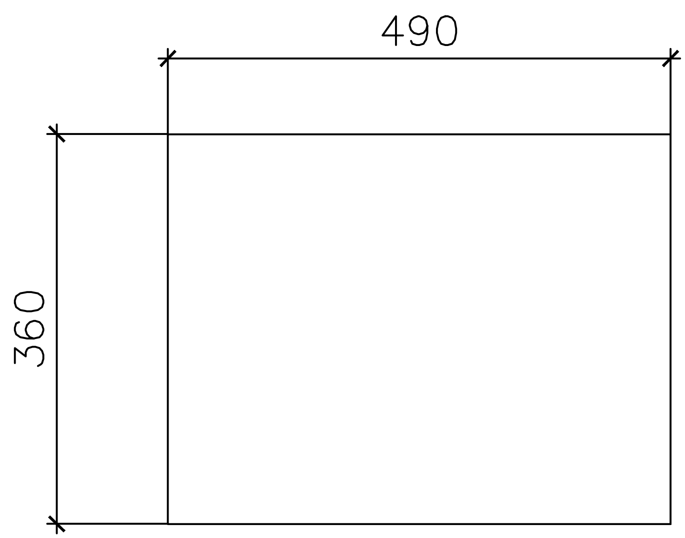
EXPLODED VIEW

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	TEACHER'S TABLE (WOOD & STEEL) TTA-2021-5 CV: 2021		5 / 6

PERFORATED MDP & SIDE PANEL DETAIL



MDP ELEVATION



SIDE PANEL ELEVATION

REPUBLIC OF THE PHILIPPINES	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTEXT	SHEET NO.
DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION	DIANE C. ERLANO ARCHITECT	ENGR. ANNABELLE R. PANGAN CHIEF-EDUCATION FACILITIES DIVISON	ALAIN DEL. B. PASCUA UNDERSECRETARY FOR ADMINISTRATION	TEACHER'S TABLE (WOOD & STEEL) TTA–2021–5 CV: 2021		6 6