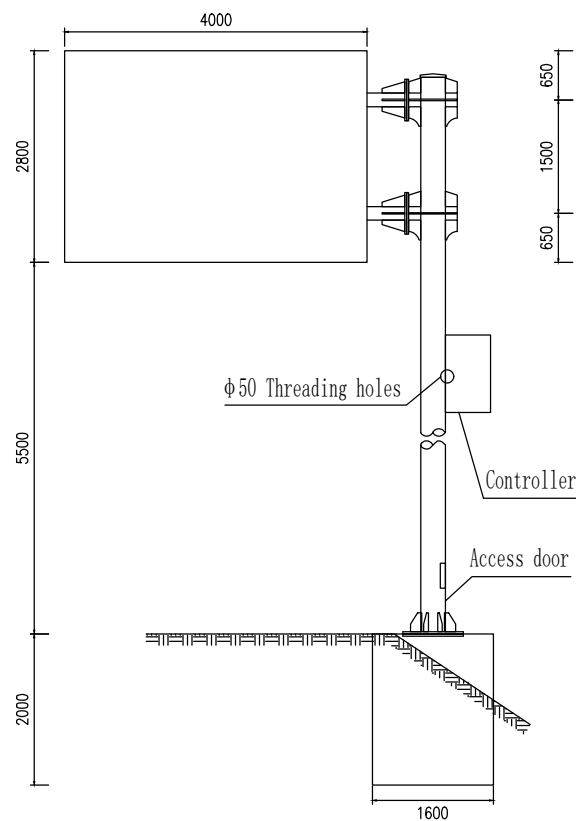


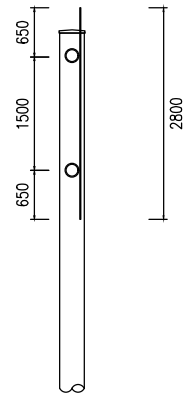
FRONT ELEVATION VIEW

SCALE: 1:100



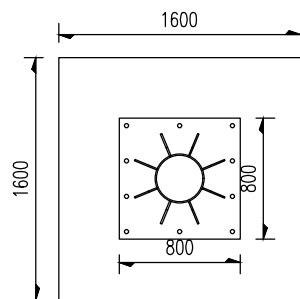
SIDE ELEVATION VIEW

SCALE: 1:100



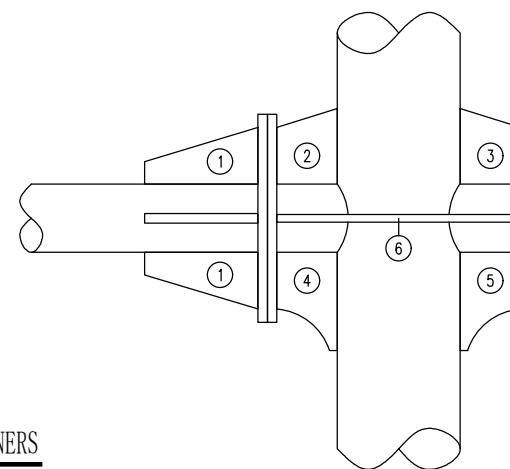
PLAN VIEW OF THE BASE

SCALE: 1:50



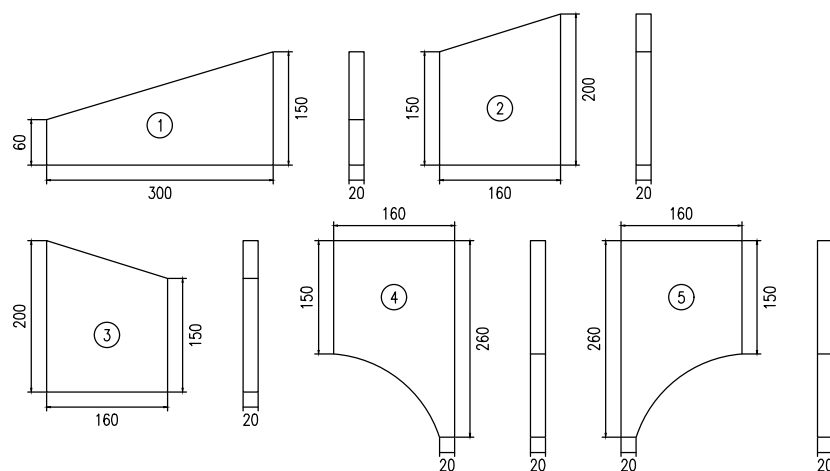
DETAILED DRAWING OF THE CONNECTION BETWEEN COLUMNS AND BEAMS

SCALE: 1:20



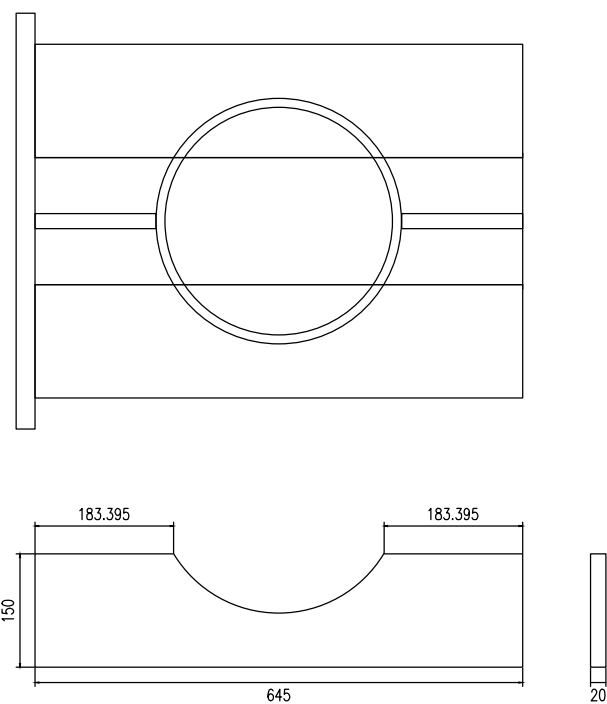
DETAILED DRAWING OF CROSS BEAM STIFFENERS

SCALE: 1:10



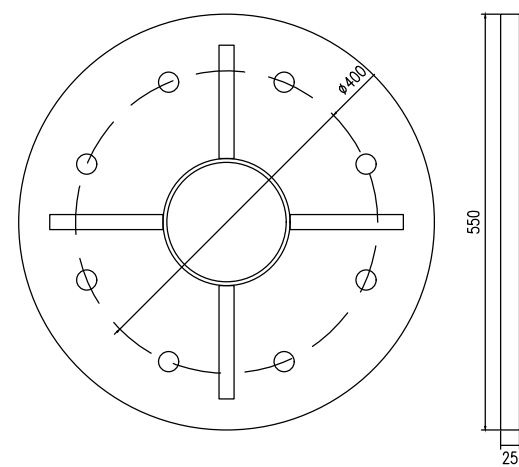
CROSS SECTION DIAGRAM OF BEAM CONNECTION

SCALE: 1:10



DETAILED DRAWING OF CROSSBEAM FLANGE PLATE

SCALE: 1:10



**QUANTITY TABLE OF SIGN MATERIALS
(EXCLUDING FOUNDATIONS AND SIGN BOARD)**

Material name	Specifications(mm)	Single piece weight(Kg)	Piece	Weight(Kg)
Connecting bolts	M27×100	0.609	16	9.744
Nut	M27	0.168	16	2.688
Grommet	27	0.053	16	0.846
Column	φ325×10×8300	640.690	1	640.690
Column cap	φ325	3.224	1	3.224
	φ168	1.515	2	3.031
Beam stiffeners	(1)	4.946	8	39.564
	(2)	4.396	2	8.792
	(3)	4.396	2	8.792
	(4)	2.057	2	4.113
	(5)	2.057	2	4.113
	(6)	15.19	4	60.759
Beam	φ168×5×5000	97.783	2	195.566
Cross beam flange plate	φ550×25	46.638	4	186.55
Foundation stiffening flange plate	800×800×30	150.72	1	150.72
Basic stiffeners	250mm high	2.551	8	20.41
Controller			1	

NOTES:

1. ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.
2. ALL STEEL COMPONENTS SHOULD BE HOT-DIP GALVANIZED, AND THE GALVANIZED AMOUNT OF FASTENERS IS 350g/m², THE GALVANIZING AMOUNT FOR OTHER STEEL COMPONENTS IS 600g/m².
3. ALL STEEL COMPONENTS ARE MADE OF Q235 STEEL, UNLESS OTHERWISE SPECIFIED.
4. TO PREVENT RAINWATER FROM SEEPING IN, A COLUMN CAP SHOULD BE ADDED TO THE TOP OF THE COLUMN.
5. AT THE CONNECTION BETWEEN THE CROSSBEAM, FIRST DRILL HOLES IN THE CORRESPONDING POSITIONS OF THE COLUMN, PASS THE SHORT CROSSBEAM THROUGH THE HOLES, AND THEN WELD THE CROSSBEAM FLANGE PLATE, THE EDGES OF THE REINFORCING RIBS AND HOLES OF THE CROSSBEAM ARE USED TO CONNECT THE SHORT CROSSBEAM WITH THE COLUMN, AND THE CONNECTION BETWEEN THE LONG CROSSBEAM AND THE SHORT CROSSBEAM IS INSTALLED ON SITE USING BOLTS.
6. THE SIZE OF THE SIGNBOARD IN THIS PICTURE IS FOR ILLUSTRATION ONLY, AND CUSTOM SIGNBOARD SIZES ARE ACCEPTED.



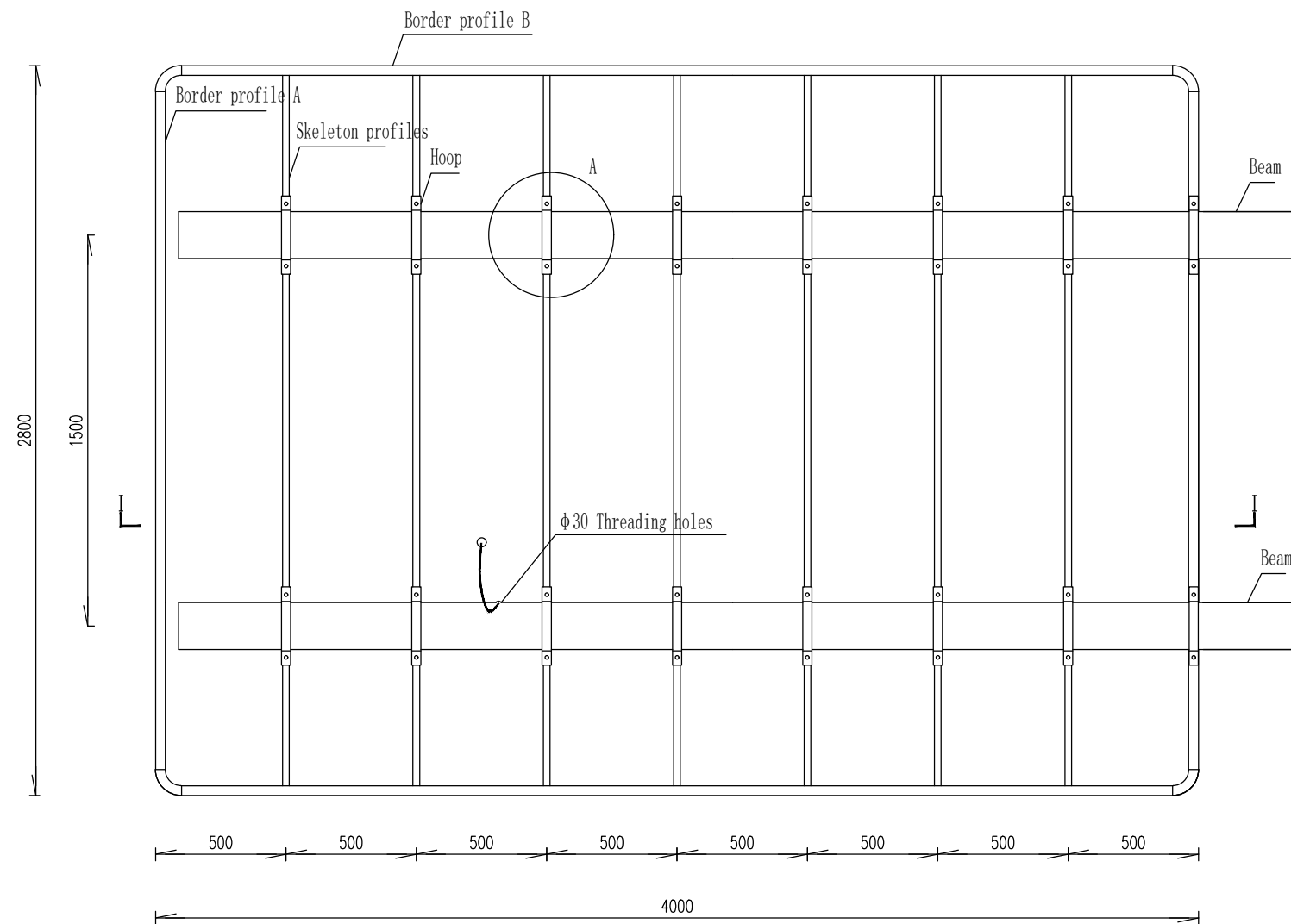
GUIDE SIGNS-Single cantilever structure

Active Illuminated traffic signs with panel display

Reflective sheeting: Nikkalite™ IV

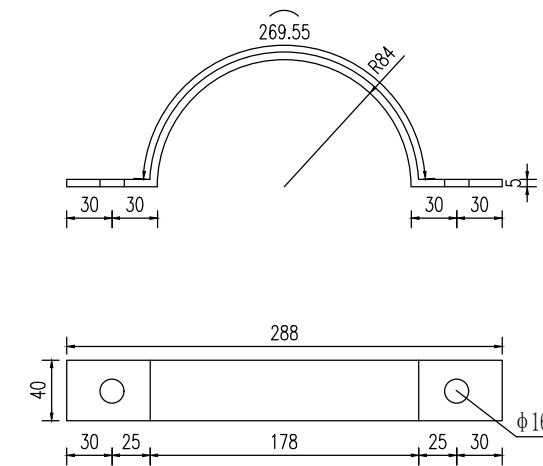
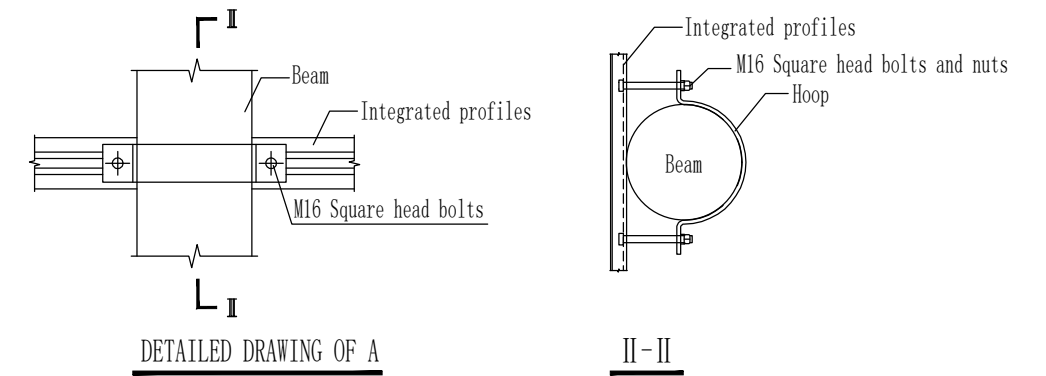
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SCHEMATIC DIAGRAM OF THE CONNECTION BETWEEN THE SIGNBOARD AND THE CROSSBEAM

SCALE: 1:125

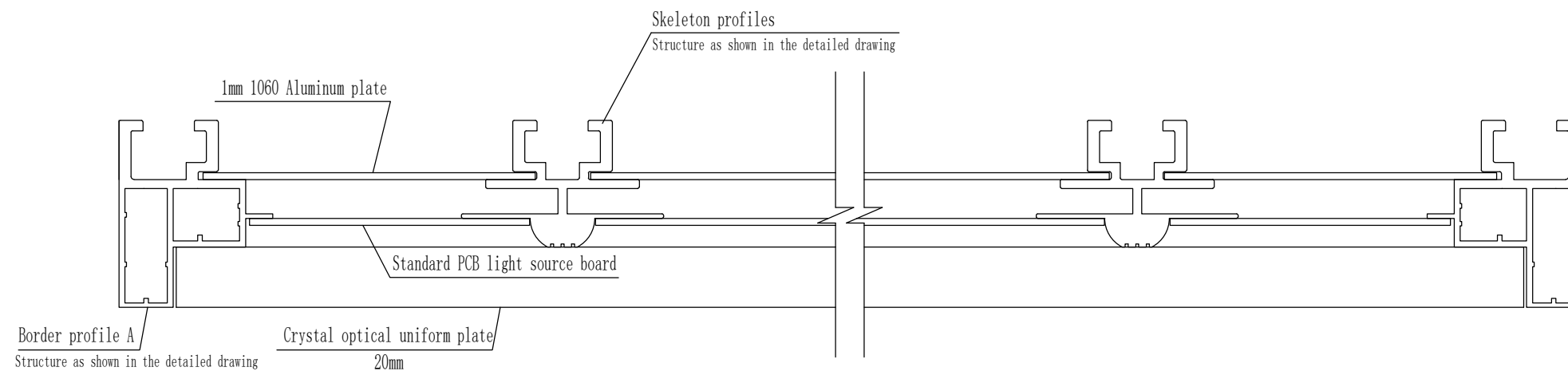


DETAILED DRAWING OF HOOP

SCALE: 1:5

NOTES:

1. ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.
2. THE SIGNBOARD IS CONNECTED TO THE CROSSBEAM WITH CLAMPS, AND THE CONNECTING BOLTS ARE SECURELY AND RELIABLY FASTENED.
3. THE DISTRIBUTION OF THE SKELETON PROFILE OF THE SIGNBOARD IS FOR REFERENCE ONLY, AND THE FINAL DESIGN SHALL BE BASED ON THE MANUFACTURER'S DETAILED DESIGN.



SCHEMATIC DIAGRAM OF THE INTERNAL STRUCTURE SECTION OF THE SIGNBOARD

I-I



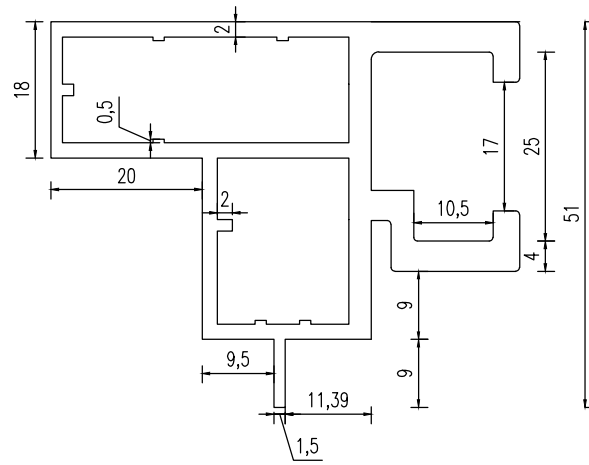
GUIDE SIGNS-Single cantilever structure

Active Illuminated traffic signs with panel display

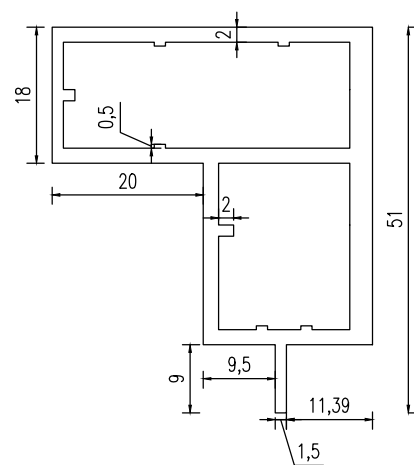
Reflective sheeting: Nikkalite™ IV

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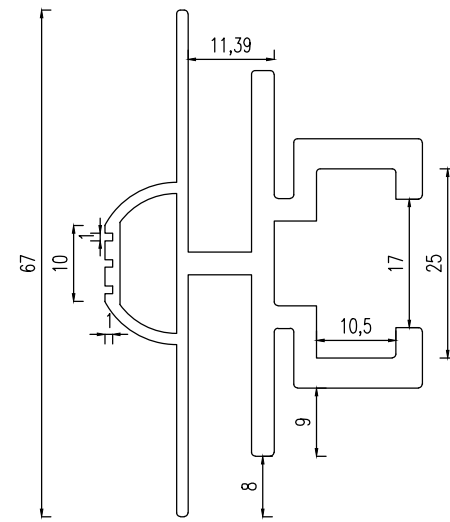
PAGE: 2



Border profile A
SCALE: 1:1



Border profile B
SCALE: 1:1



Skeleton profiles
SCALE: 1:1

QUANTITY TABLE OF SIGN MATERIALS

Material name	Number	Specifications(mm)	Piece	Single piece weight (Kg)	Total weight (Kg)
Active illuminated signage	1	4000×2800	1	119.15	119.15
Hoop	2	40×5×379.55	16	0.66	10.56
Square head bolt with nut	3	M16×120	32	0.34	10.88

NOTES:

1. All dimensions in this drawing are in millimeters.
2. The production of sign boards should comply with the technical requirements of the group standard T/CISA001-2018 "Panel display self luminescence traffic signs".
Provide a type testing qualification report issued by a national level traffic safety facility or product testing and inspection agency. Using products that have obtained CCPC certification. The operation management software, cloud platform software, and dimming program software should all obtain a qualified testing report from the provincial software product testing center.
3. The average spacing between the vertical skeleton profiles of the illuminated signs shall not exceed 600mm, and the maximum spacing shall not exceed 800mm.
The specific spacing can be adjusted according to the requirements of the manufacturer of the active illuminated signs.
4. The sign board should meet the following technical requirements:
 - (1). The reflective base plate of the logo is composed of a reflective film and a crystal optical uniform plate.
 - (2). The text and graphics on the surface of the sign board are made of high transparency micro prism reflective film, The white light transmittance is $\geq 25\%$, and the light transmittance uniformity is 1.2:1 to 1.3:1.
 - (3). Standard mixed light source board requirements: The PCB board should be made of epoxy resin material, with a thickness of ≥ 1.1 mm, and a spacing of 28 x 28mm cloth beads for SMT LED.
 - (4). Without damaging the retroreflective material on the surface of the sign board, the light source board is placed in the sign box, and the light source projects directionally towards the back of the retroreflective material, displaying high-definition information content; Fully lay standard light source boards within the area of the logo layout, and the remaining space can be spliced using small-sized light source boards.
 - (5). The brightness indicators for the transparent display of logo information: white $\geq 300\text{cd/m}^2$, yellow $\geq 150\text{cd/m}^2$, red $\geq 45\text{cd/m}^2$, green $\geq 45\text{cd/m}^2$, blue $\geq 30\text{cd/m}^2$, brown $\geq 22\text{cd/m}^2$;
The average brightness contrast between the blue and white (green and white) parts of the logo ranges from 1:5 to 1:18.
 - (6). The packaging around the luminous sign should be made of aluminum alloy profiles, which should be made of integrated aluminum alloy materials. The aluminum alloy should be 6063T5.
The four corners are combined with aluminum alloy elbows made of molds, with an overall thickness of $\leq 60\text{mm}$ (excluding support components).
 - (7). The overall weight of the sign is $\leq 15\text{KG/m}^2$, with a designed service life of 7-10 years and a free maintenance period of 2 years.
 - (8). The automatic photosensitive control adopts a solar circuit voltage drop analysis control module. The control unit can automatically turn on/off the sign emitting unit based on the light intensity around the sign.
The sign emitting unit can automatically adjust the brightness according to the day and night light intensity, maintaining a relatively balanced luminous contrast
 - (9). The environmental illumination detection device should use polycrystalline silicon as the photosensitive element and adopt solar voltage drop photoelectric control technology.
 - (10). The normal effective dynamic visual recognition distance at night is ≥ 210 meters, and the static visual recognition distance is ≥ 250 meters.
 - (11). When using the power grid for power supply, the input voltage is 220V and the output voltage is 24V.
 - (12). The logo should be equipped with lightning protection, touch and leakage protection devices, and the wiring cables should not be exposed.
 - (13). Configure intelligent IoT terminal modules and status detection modules that can be connected to the road traffic safety facility operation management system software.
 - (14). The sign structure should have the ability to withstand wind load deformation, and should be able to withstand normal lighting under wind force of 16 levels, with no damage to the reflective film and no depression in the structure.



GUIDE SIGNS-Single cantilever structure

Active Illuminated traffic signs with panel display

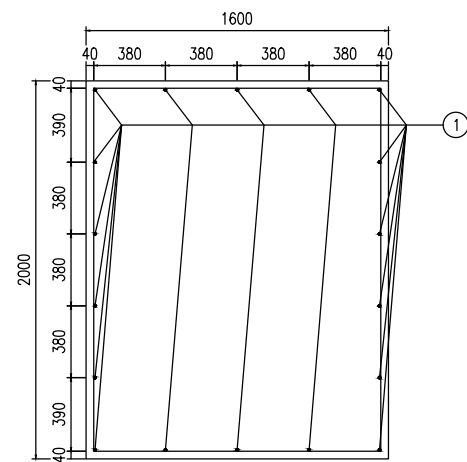
Reflective sheeting: Nikkalite™ IV

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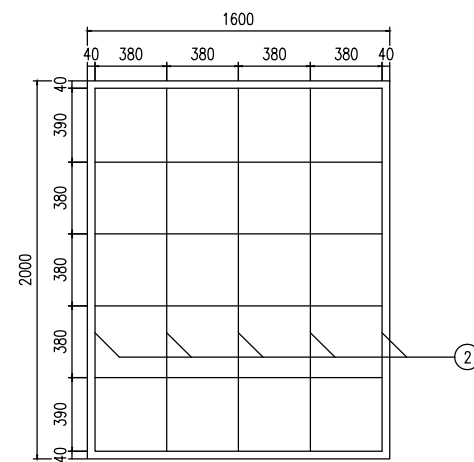
FRONT ELEVATION VIEW

SCALE: 1:40



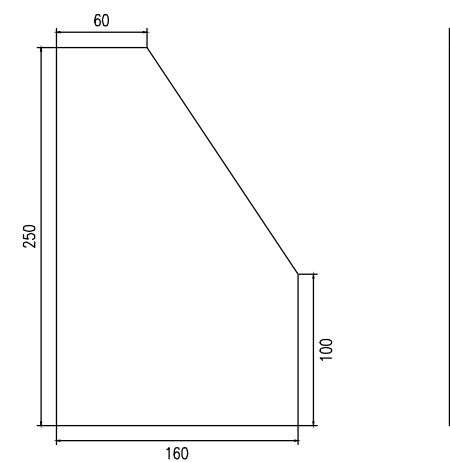
SIDE ELEVATION VIEW

SCALE: 1:40



STRUCTURAL DIAGRAM OF STIFFENERS

SCALE: 1:5

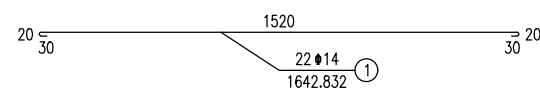


QUANTITY TABLE OF SIGN MATERIALS

Material name	Specifications(mm)	Single piece weight(Kg)	Piece	Weight(Kg)	Notes
Basic flange plate	800×800×30	150.72	1	150.72	Q235
Anchor bolt	M30×1320	9.226	10	92.26	45 # steel
Nut	M30	0.234	20	4.68	45 # steel
Grommet	30	0.064	20	1.28	Q235
Rebar	∅14×1642.832	1.987	18	35.776	
Rebar	∅8×7120	2.812	5	14.060	
Foundation	1600×1600×2000			5.12(m ³)	C25

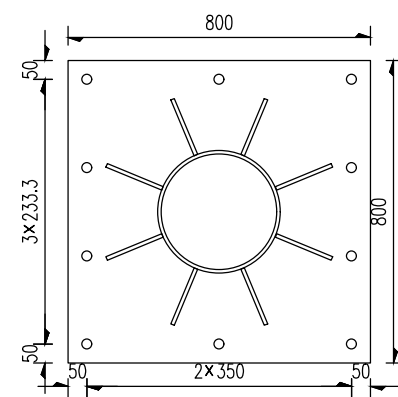
DETAILDE DRAWING OF FOUNDATION MAIN REINFORCEMENT

SCALE: 1:40



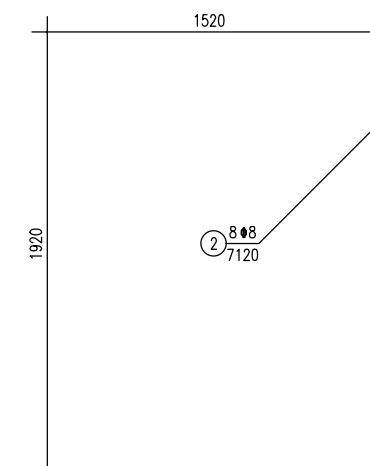
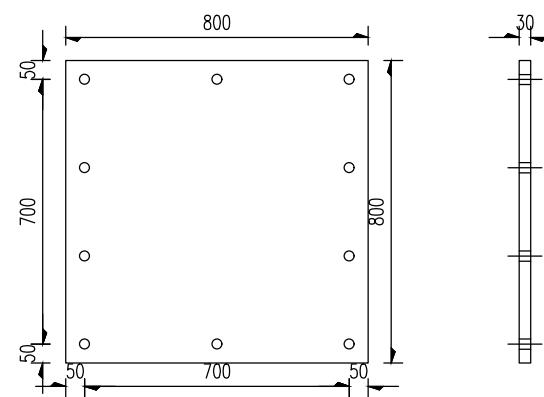
STIFFENING FLANGE PLATE

SCALE: 1:20



BASE FLANGE PLATE

SCALE: 1:20



NOTES:

1. ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.
2. THE FOUNDATION IS POURED WITH C25 CONCRETE ON SITE, AND THE CONSTRUCTION STEEL BAR ϕ 8 IS HOT-ROLLED FIRST GRADE ROUND STEEL BAR ϕ 14 IS A TWO-LAYER THREADED STEEL BAR, AND THE PROTECTION THICKNESS OF THE STEEL BAR SHOULD NOT BE LESS THAN 12mm.
3. THE TOP SURFACE OF THE FOUNDATION SHOULD BE PRE EMBEDDED WITH THE BASE FLANGE AND ANCHOR BOLTS.
THERE SHOULD BE A HOOK BELOW THE ANCHOR BOLTS TO FIX THE UPPER STRUCTURE WITH NUTS. TWO NUTS SHOULD BE ADDED TO EACH ANCHOR BOLT.
4. WHEN POURING CONCRETE, ATTENTION SHOULD BE PAID TO ALIGNING THE BASE FLANGE WITH THE FOUNDATION AND EMBEDDING IT INTO THE FOUNDATION. ITS UPPER SURFACE SHOULD BE FLUSH WITH THE TOP SURFACE OF THE FOUNDATION, WHILE ENSURING THAT ITS TOP SURFACE IS HORIZONTAL.
THE EXPOSED PART OF THE EMBEDDED ANCHOR BOLTS SHOULD BE KEPT PERPENDICULAR TO THE BASE FLANGE.
5. AFTER CONSTRUCTION IS COMPLETED, THE EXPOSED LENGTH OF THE ANCHOR BOLTS SHOULD BE CONTROLLED WITHIN 100-300mm, AND THE EXPOSED THREADED PARTS SHOULD BE PROPERLY PROTECTED.



GUIDE SIGNS-Single cantilever structure

Active Illuminated traffic signs with panel display

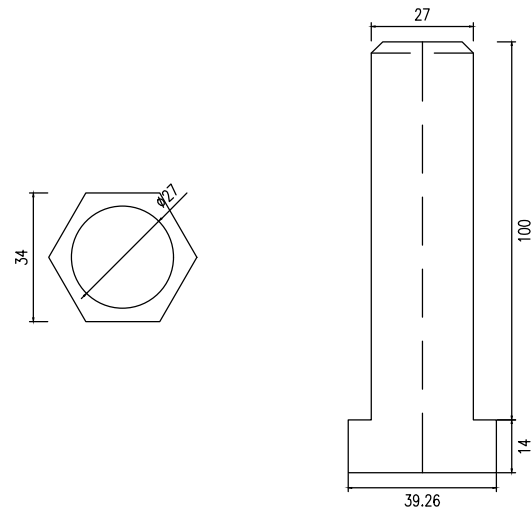
Reflective sheeting: Nikkalite™ IV

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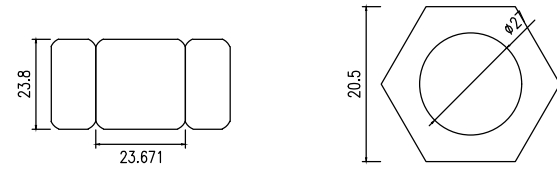
DETAILED DRAWING OF SLIDING BOLT

SCALE: 1:2



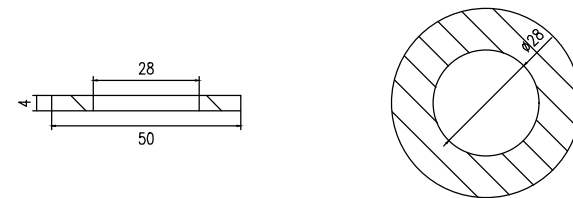
DETAILED DRAWING OF SLIDING NUT

SCALE: 1:2



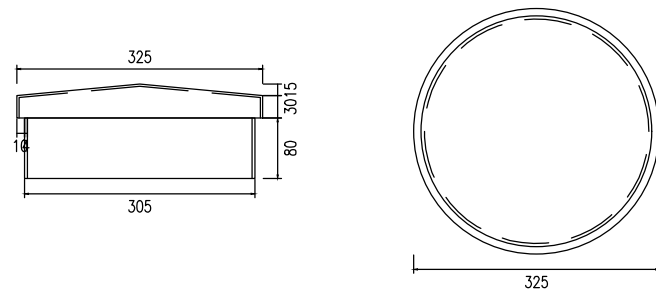
DETAILED DRAWING OF GSKET

SCALE: 1:2



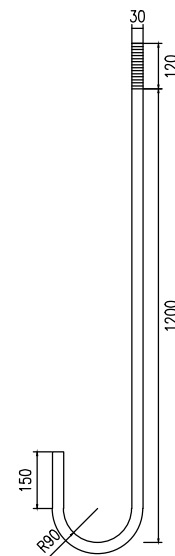
DETAILED DRAWING OF COLUMN CAP

SCALE: 1:10

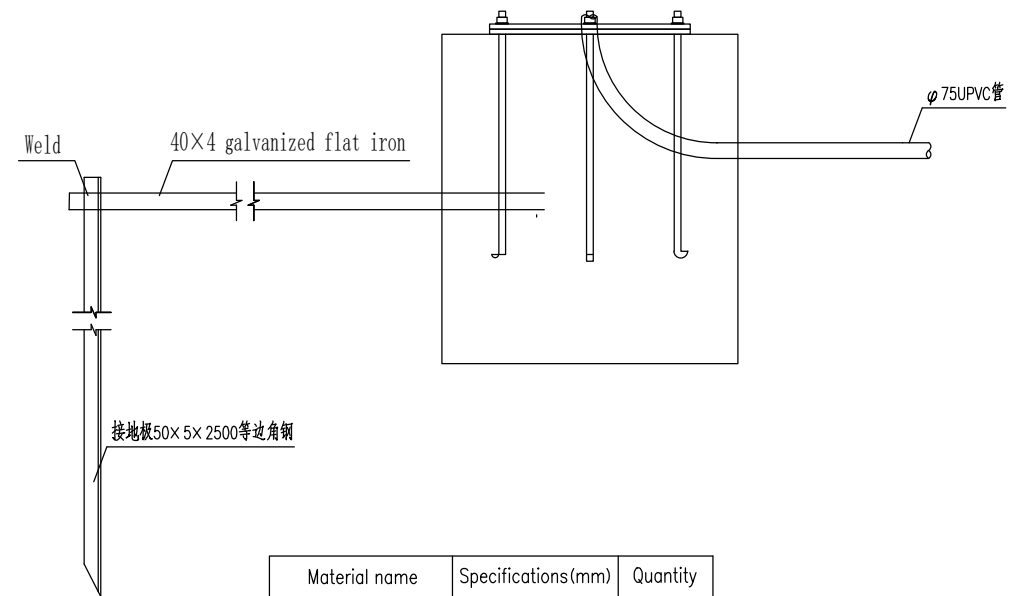


DETAILED DRAWING OF ANCHOR BOLTS

SCALE: 1:20

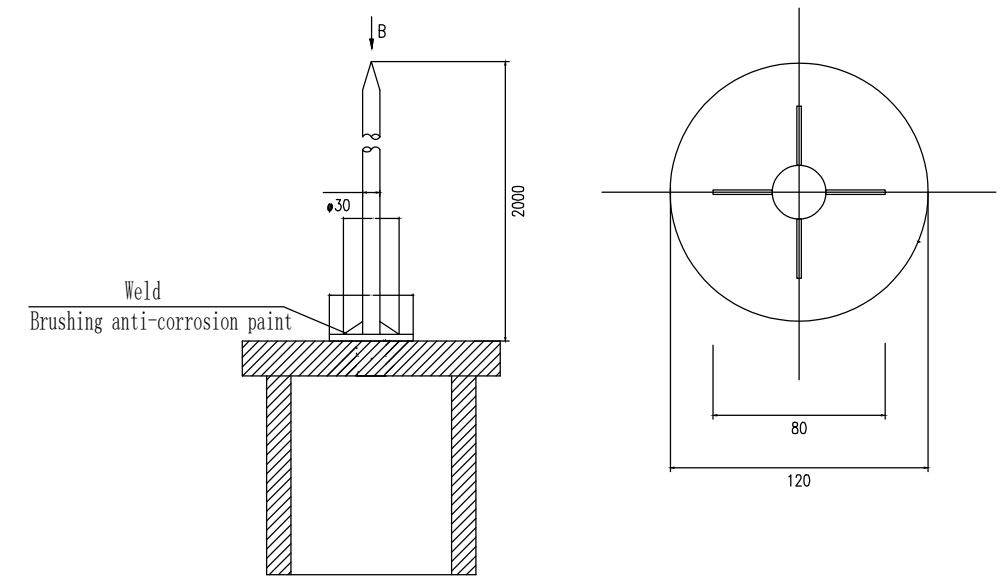


DETAILED DRAWING OF FOUNDATION BURIED PIPE GROUNDING



Material name	Specifications(mm)	Quantity
Galvanized angle steel	50x5	2.5m
Galvanized flat iron	40x4	1.0m
Lightning rod	φ30x2000	1 set
UPVC conduit	φ75UPVC conduit	4m

DETAILED DRAWING OF LIGHTNING ROD



NOTES:

1. ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.
2. THE DISTANCE BETWEEN THE UPPER END OF THE VERTICAL GROUNDING BODY ANGLE STEEL PILE AND THE GROUND SHALL NOT BE LESS THAN 500mm.
3. BOTH ANGLE STEEL AND FLAT STEEL SHALL BE HOT-DIP GALVANIZED, AND THE THICKNESS OF THE GALVANIZED LAYER SHALL NOT BE LESS THAN 70 μm.



GUIDE SIGNS-Single cantilever structure

Active Illuminated traffic signs with panel display

Reflective sheeting: Nikkalite™ IV

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