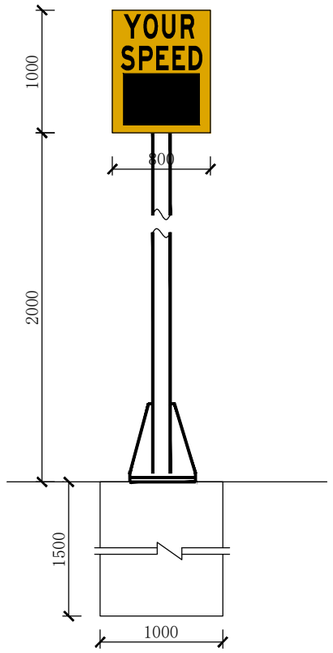
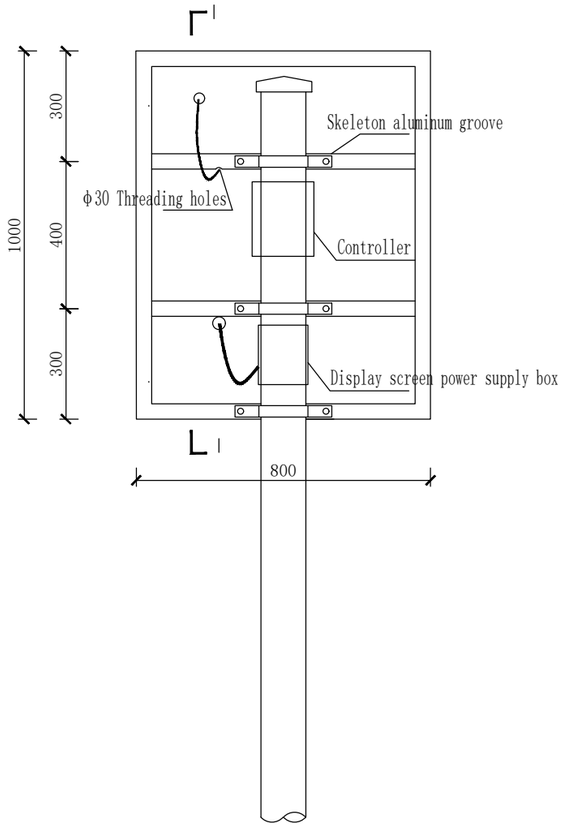
FRONT ELEVATION VIEW

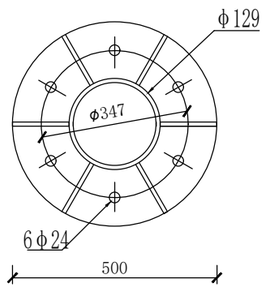
SCALE: 1:50





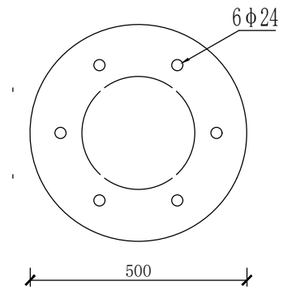
BACK VIEW OF TEH SIGN

SCALE: 1:16



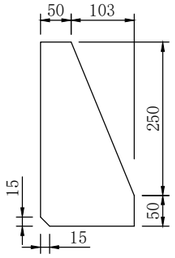
COLUMN FLANGE PLAN

SCALE: 1:15



DETAILED DRAWING OF FOUNDATION FLANGE PLATE

SCALE: 1:15



DETAILED DRAWING OF STIFFENING PLATE

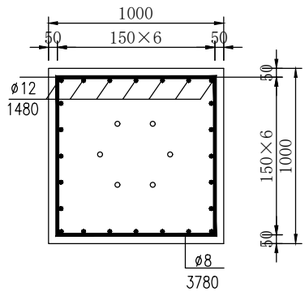
SCALE: 1:15

NOTES:

1. All dimensions in this drawing are in millimeters.
2. The top cap of the column is welded with 3mm thick aluminum plate for sealing.
3. All steel components are made of Q235 steel, unless otherwise specified.
4. All steel components should undergo hot-dip galvanizing treatment, with a galvanizing amount of 350g/m2 for fasteners and 600g/m2 for other steel components.
5. LED display screen parameters:
(1). LED color: red, green;
(2). LED type: SMT dual color;
(3). LED display mode: Three digit display, up to 199;
(4). Display size: 620mmx420mm;
(5). Visual distance: 1000 meters;
(6). Visual angle: 30-40 ° .

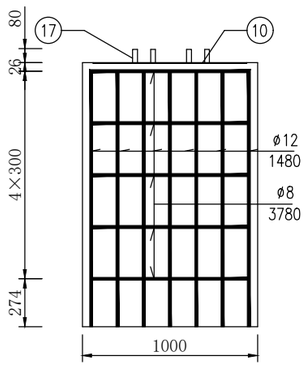
FOUNDATION STEEL REINFORCEMENT PLANE

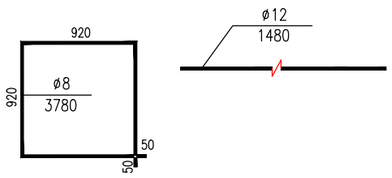
SCALE: 1:35



FOUNDATION STEEL REINFORCEMENT FACADE

SCALE: 1:35





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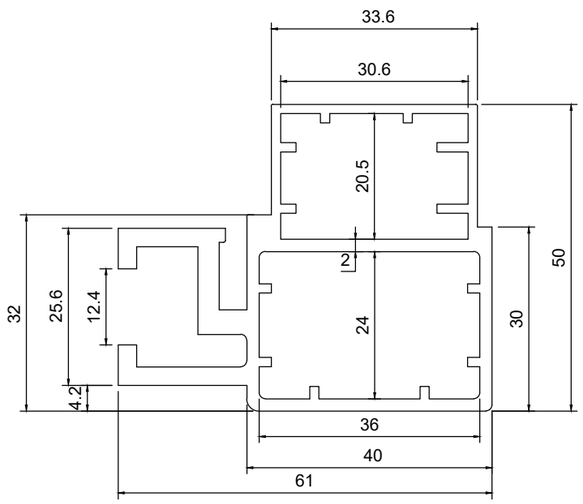
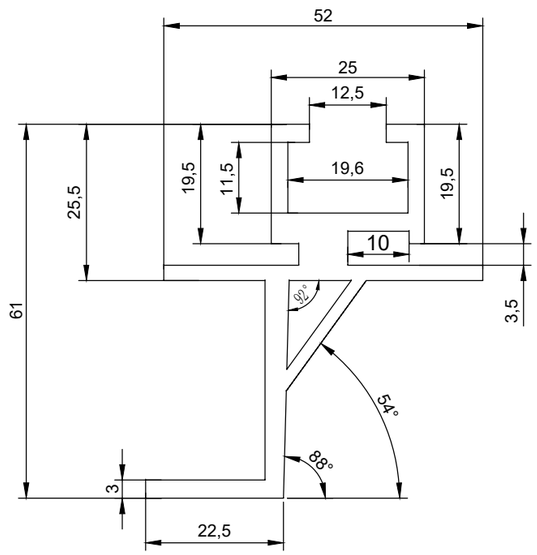


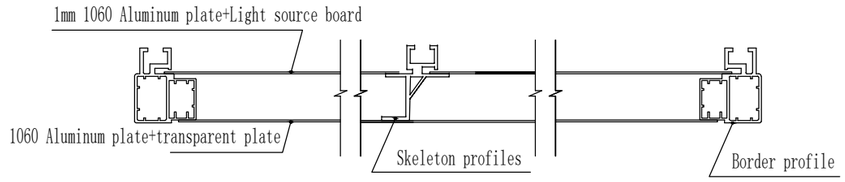
Border profile

SCALE: 1:1



Skeleton profiles

SCALE: 1:1



SCHEMATIC DIAGRAM OF THE INTERNAL STRUCTURE SECTION OF THE SIGNBOARD

I-I

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 ⩾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 ⩾300cd/m2, yellow ⩾150cd/m2, red ⩾ 45cd/m2, green ⩾ 45cd/m2, blue ⩾ 30cd/m2, brown ⩾ 22cd/m2;
   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 ⩽ 60mm (excluding support components).
(7). The overall weight of the sign is ⩽15KG/m2, 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.

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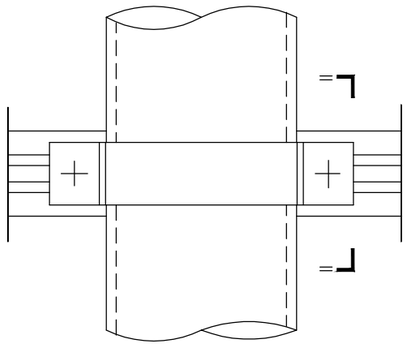
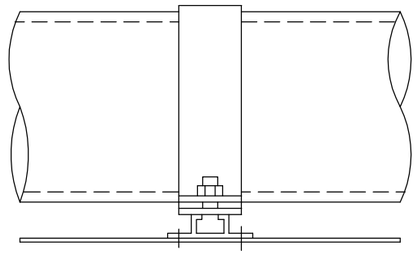
DETAILED DRAWING OF A

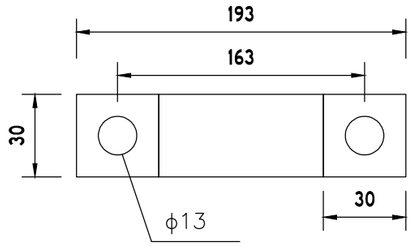


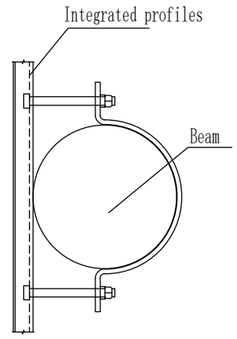
II-II

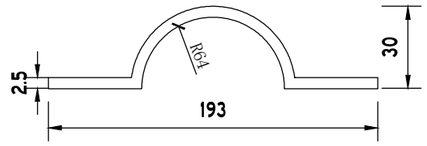


DETAILED DRAWING OF HOOP

SCALE: 1:5







QUANTITY TABLE OF SIGN MATERIALS

Material name	Specifications(mm)	Piece	Notes
Column	ϕ127×6×4000	1	A3
Column flange plate	500×500×10	1	A3
Flange stiffening plate	153×300×8	4	A3
Pillar rain cap plate	ϕ127×5	1	A3
Speed Limit Sign	1600×800×25	1	
Hoop	30×2.5×266	4	A3
Lag bolt	M12×90	8	A3
Controller		1	
Display screen power supply box		1	
Base flange plate	500×500×10	1	A3
Foundation bolt	ϕ22×770	6	45 # steel
Rebar	ϕ8×3780	26	HPB300
Rebar	ϕ12×1480	5	HRB400
Nut	M22	12	
Grommet	M22×3	6	
Foundation concrete	1000×1000×1500	1	C30

NOTES:

1. All dimensions in this drawing are in millimeters.

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