

DIGITAL BILLBOARD

SINGLE-SIDED STEEL MONOPOLE

14'-0" × 24'-0" DIGITAL LED DISPLAY • 34'-0" OVERALL HEIGHT

OWNER: SLATECOLE PROPERTIES LLC
SITE: PARCEL 29554 — SW CORNER, HENDERSON LANE / U.S. HIGHWAY 72, MADISON, AL
DISPLAY: SINGLE FACE, 336 SQ FT, READS TO EASTBOUND US-72 TRAFFIC
STRUCTURE: TAPERED STEEL MONOPOLE ON DRILLED CONCRETE PIER
STATUS: PRELIMINARY — FOR LOCAL / ALDOT PERMIT REVIEW, CONTRACTOR & LED VENDOR PRICING, AND REVIEW / FINAL DESIGN BY AN ALABAMA-LICENSED PROFESSIONAL ENGINEER. DO NOT BUILD FROM THIS SET.

DRAWING INDEX

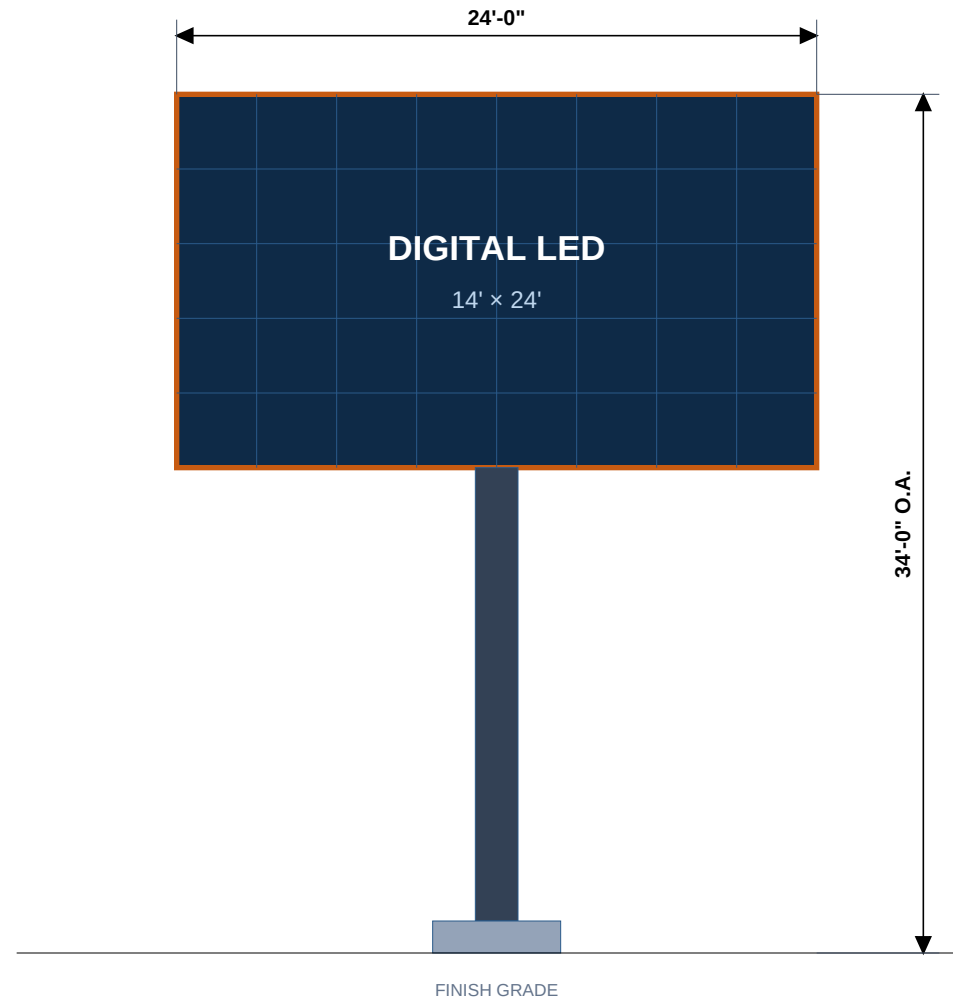
G-001	COVER SHEET, DESIGN DATA & GENERAL NOTES
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BEFORE CONSTRUCTION — REQUIRED

- Boundary & topographic survey of Parcel 29554 (AL-licensed surveyor) — confirm ROW, setbacks & sign spot.
- Written local jurisdiction / zoning determination for Parcel 29554 + local sign permit.
- ALDOT Outdoor Advertising permit — file copy of approval letter with this set.
- Geotechnical report at the pole location (boring to below pier tip).
- Final structural design & stamp by an Alabama-licensed PE; LED vendor shop drawings.
- Electrical permit & utility service confirmation (provider, voltage, meter location).

This set organises the owner's confirmed design (14×24, single-sided, eastbound, 34 ft) into a permit- and pricing-ready blueprint. Dimensions shown as 'VERIFY' or 'PRELIM.' must be confirmed by survey, geotech, vendor and the PE of record.

KEY ELEVATION — FRONT (EASTBOUND READ)



DESIGN DATA — BASIS OF THIS PRELIMINARY SET

CODES: IBC 2021 • ASCE 7-22 • NEC 2023 • ALDOT Outdoor Advertising Rules • Local sign ordinance (verify jurisdiction)
WIND: Vult 115 MPH, Risk Cat. II, Exposure C, Kd 0.85, Kzt 1.00 — FINAL BY PE (Madison Co. — confirm current map)
FACE: 14'-0" H × 24'-0" W = 336 SF • Bottom of face 20'-0" AFF • Top 34'-0" AFF • Centre of face 27'-0" AFF
DISPLAY: LED, 10 mm pitch (target), ≥7,000 nits, auto-dimming, static image ≥8 sec, change ≤2 sec, freeze on fault (ALDOT)
SOILS: NO GEOTECH ON FILE — foundation herein is PRELIMINARY ONLY, sized for pricing / PE starting point

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LOCATION

Parcel 29554 — SW corner, Henderson Ln / U.S. Hwy 72

Madison, Alabama • Face reads to EASTBOUND US-72

Land leased • ALDOT location approved (per owner, 10-21-2026)

JOB / DATE / SCALE

SCP-2026-29554

23 OCT 2026 • REV. P3

Scale: NTS

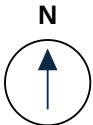
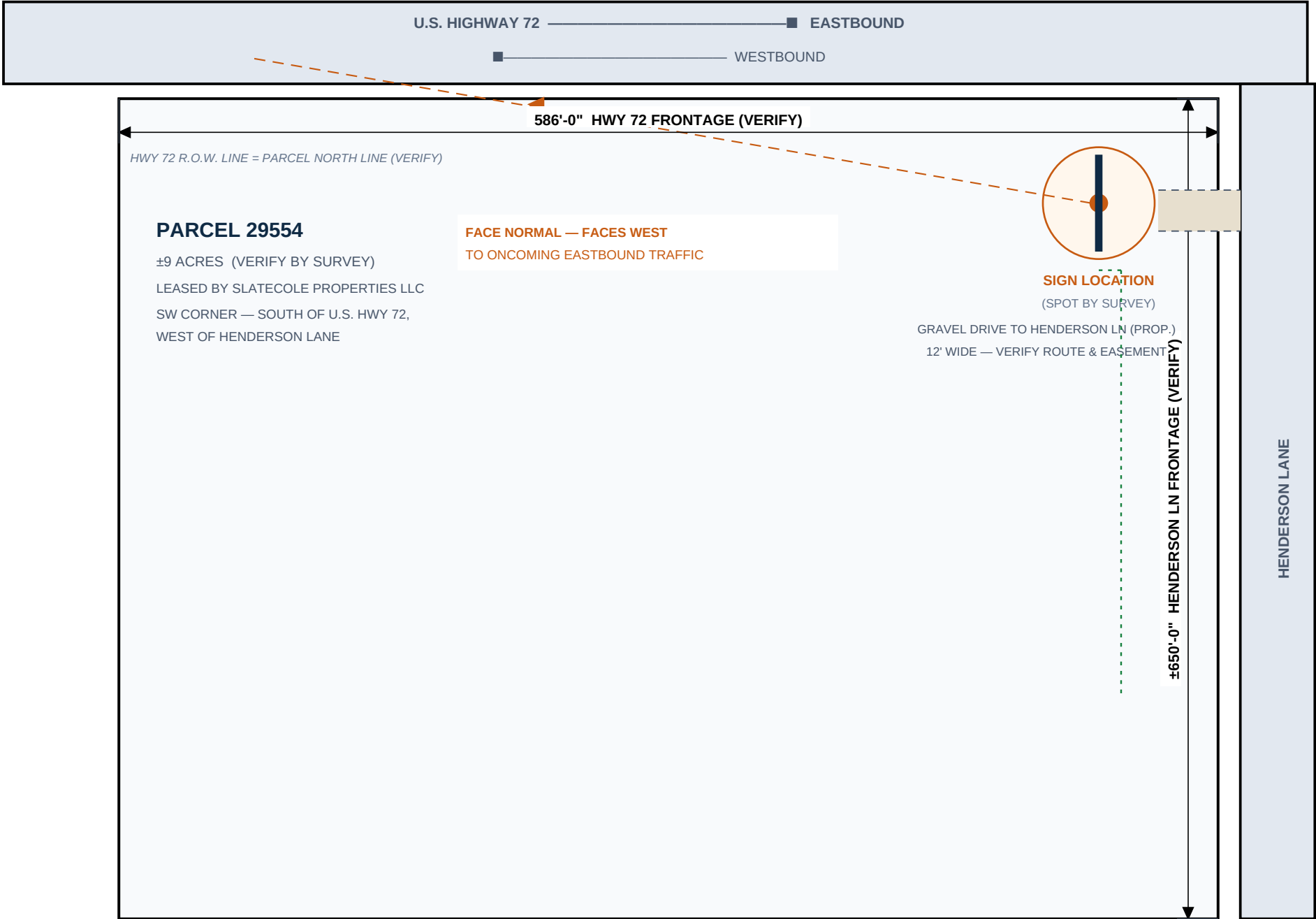
G-001

COVER SHEET

ANSI B 17 × 11

1 SITE PLAN — PARCEL 29554 (DIAGRAMMATIC, NORTH UP)

SW corner of Henderson Ln / U.S. Hwy 72 — based on listing dims. 586' Hwy 72 frontage x ~650' Henderson Ln — SURVEY REQUIRED



SITE NOTES

- NOT A SURVEY.** Diagrammatic, from listing dims. Boundaries, R.O.W., easements, utilities & sign spot by AL-licensed surveyor before permit / build.
- SETBACKS — VERIFY with governing jurisdiction:** R.O.W., property lines, residences, intersections, + ALDOT spacing (≥500' same-side — confirm).
- CLEAR ZONE:** pole outside clear zone / R.O.W.; no face overhang of R.O.W. unless permitted.
- VISIBILITY:** keep clear sight triangle to US-72; trim vegetation in lease area as permitted.
- DRAINAGE:** grade at pole sheds water from pier; erosion control per local / ADEM requirements.
- ACCESS:** maintain service access to pole base & disconnect for life of sign (ladder — A-202).
- LEASE:** confirm footprint + access / utility easements in recorded lease (\$833/mo) cover spot.

LEGEND

- Parcel / R.O.W. line (verify) ● Pole centre
- (navy) Display face, west-facing - - Access drive (prop.)
- Electrical route (prop.) - - (orange) Line of sight

ELECTRICAL SERVICE

Underground conduit from utility service / meter at sign base to pole. Route & provider — VERIFY (E-101). Call 811 before any excavation.

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Scale: DIAGRAMMATIC — NOT A SURVEY

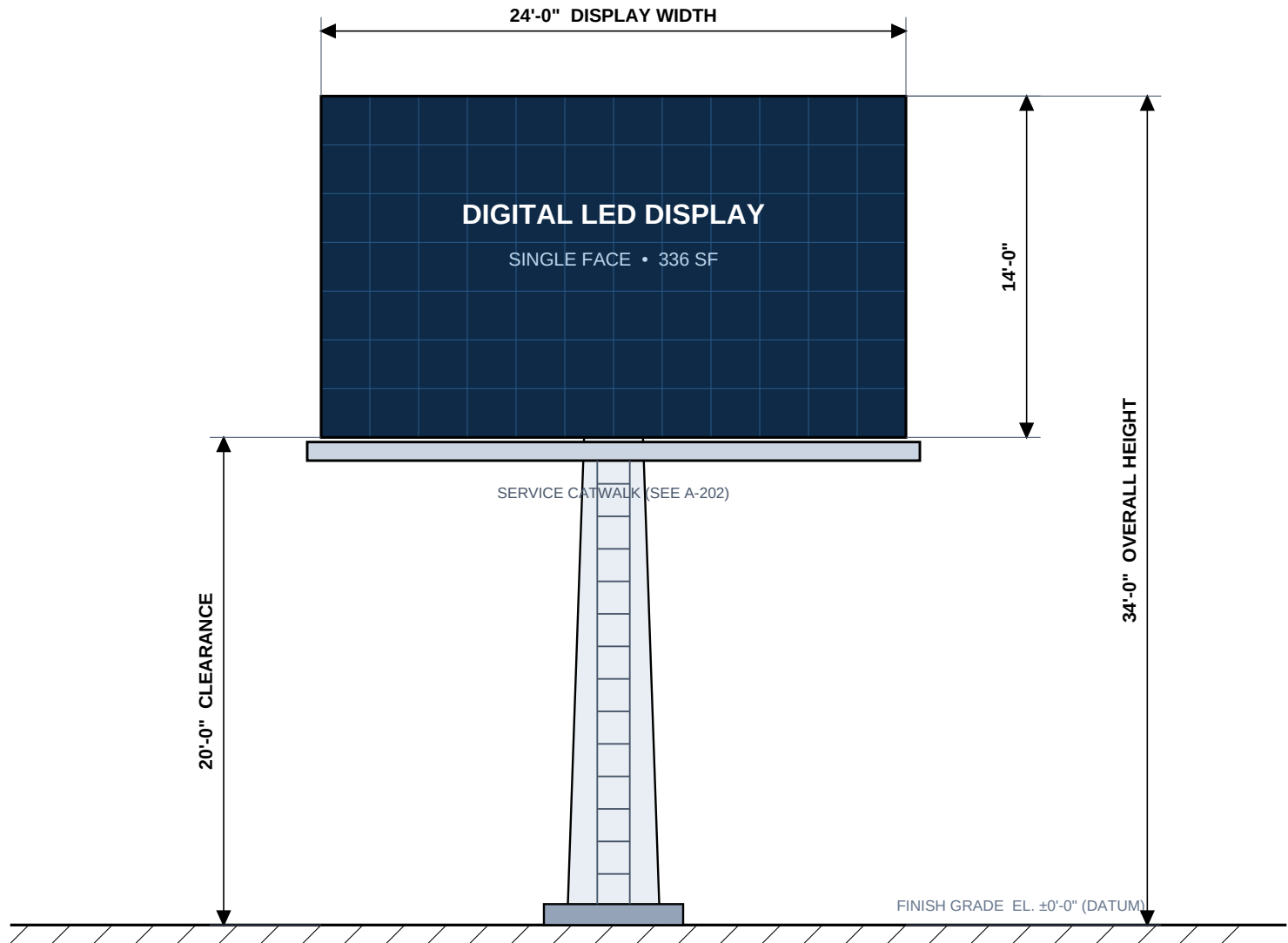
C-101

SITE PLAN

ANSI B 17 × 11

1 FRONT ELEVATION — LOOKING EAST (FACE TO VIEWER)

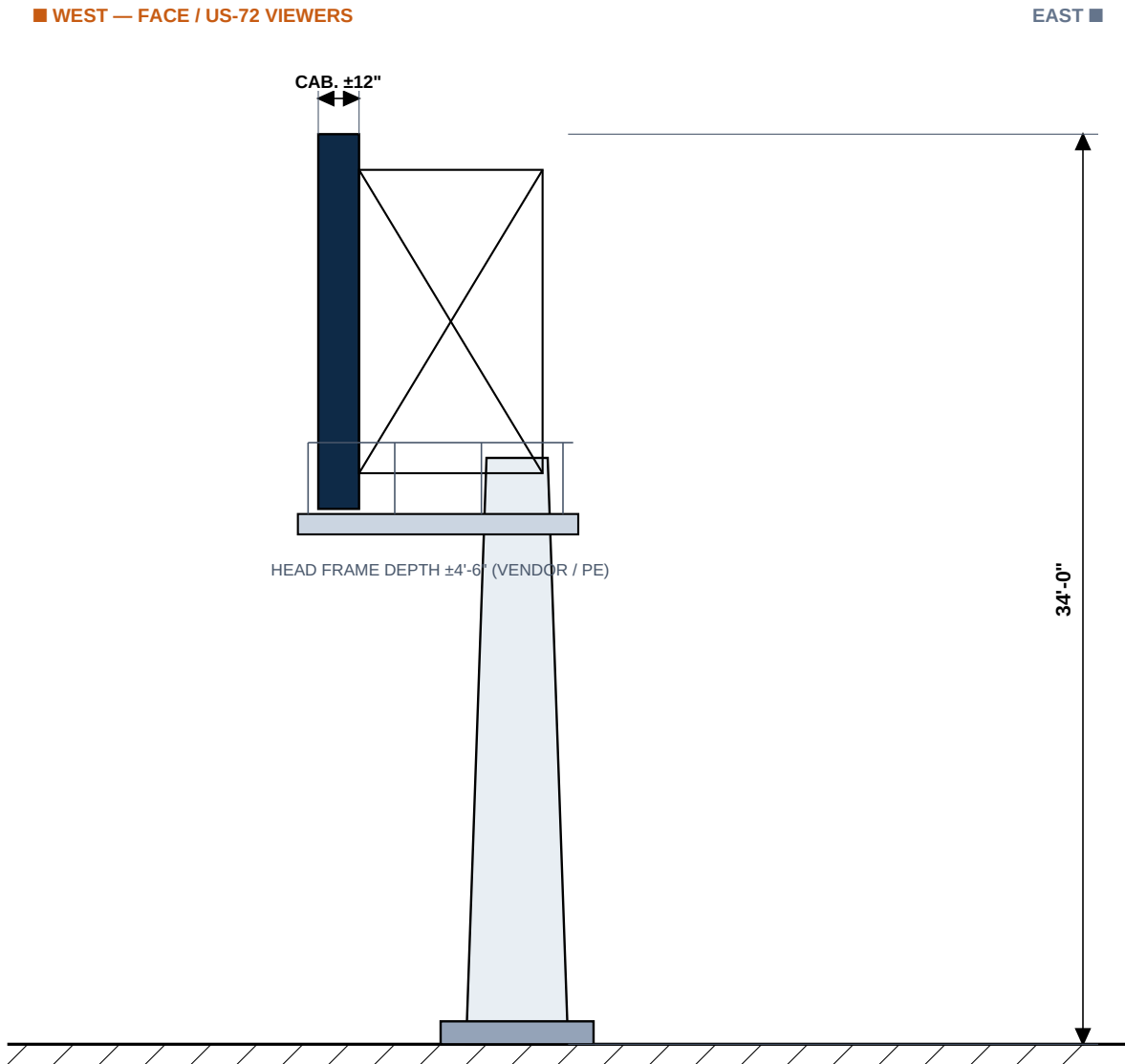
Scale: diagrammatic — dimensions govern, do not scale drawing



MATERIAL KEY — FRONT

- Centre of face 27'-0" A.F.F. • Pole on face centreline • Face plumb & level.
- Display: outdoor LED cabinets, sealed, front/rear service per vendor.
- Apron / ID panel: NONE — no added area above 336 SF.
- Pole & head frame: structural steel — see S-101 / S-201.

2 SIDE ELEVATION — LOOKING NORTH



ELEVATION NOTES

- Heights from finish grade at pole base; PE sets datum if grade slopes.
- Nothing above 34'-0" unless permitted. No rotating / moving parts.
- Finish: pole galvanised or painted; cabinet per vendor, matte, non-glare.
- Static-image digital only — no flashing / scrolling / video (ALDOT).

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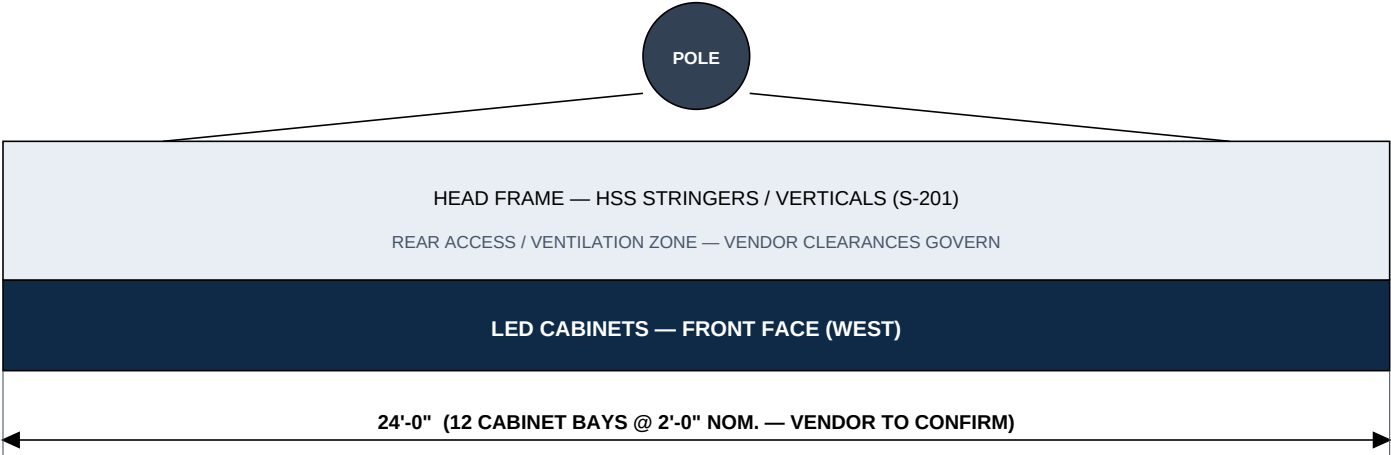
Scale: 1/8" = 1'-0" (DIAGRAM SCALE)

A-201

ELEVATIONS

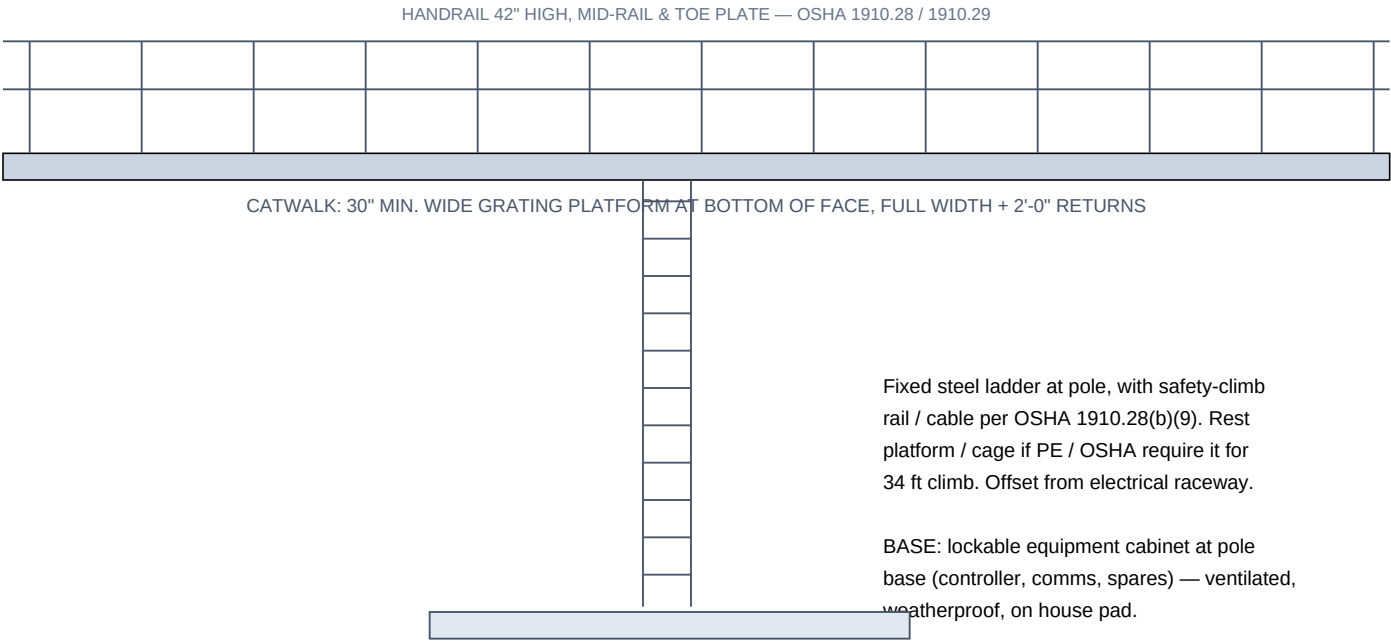
ANSI B 17 × 11

1 DISPLAY CABINET — PLAN SECTION (LOOKING DOWN)



Cabinet joints, module size, pixel matrix & service method are BY LED VENDOR. Target: 10 mm pitch, approx.
720 × 420 pixels (vendor matrix governs). Cabinets sealed IP65 front / IP54 rear min., with thermostatic ventilation.

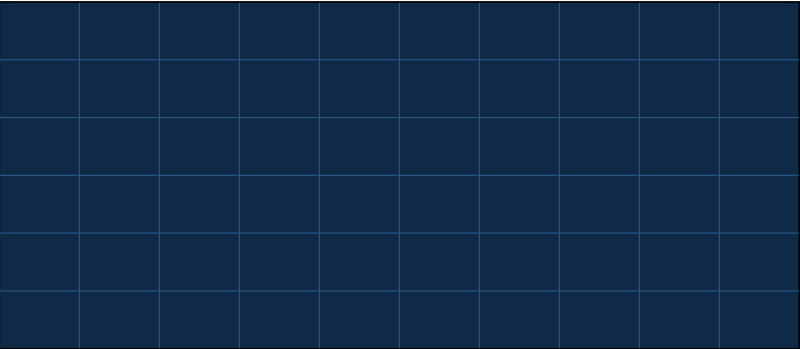
3 SERVICE CATWALK & LADDER — SECTION



OPERATION (ALDOT DIGITAL): STATIC IMAGE ONLY • HOLD ≥8 SECONDS • TRANSITION ≤2 SECONDS, INSTANT / FADE ONLY • NO ANIMATION, FLASHING, SCROLLING OR VIDEO • AUTO-FREEZE TO STATIC / BLANK ON MALFUNCTION

BRIGHTNESS TO COMPLY WITH ALDOT & LOCAL LIMITS AT ALL TIMES — OWNER TO PROGRAM & DOCUMENT COMPLIANCE IN CONTROLLER SOFTWARE.

2 LED MODULE GRID — FRONT DETAIL



REPEAT OVER FULL 14' × 24' FACE — NO GAPS / NO EXPOSED WIRING

PRELIMINARY

NOT FOR CONSTRUCTION

SPEC — DISPLAY

Brightness ≥7,000 nits,
auto-dim to ambient;
contrast / louvres per
vendor. Colour-calibrated
modules + ≥5% spares,
spare PSU & controller
in base cabinet.

4 ARCHITECTURAL / VENDOR NOTES

- VENDOR SHOP DRAWINGS REQUIRED** for cabinets, head frame loads (dead + wind reactions at pole head), power draw (peak & average), ventilation heat, and service clearances — submit to PE of record BEFORE fabrication.
- SIGN FACE AREA is 336 SF measured to outside of cabinets.**
No separate ID / apron panel is included in this set.
- LIGHTING: no external floodlights. Display is self-illuminated,** auto-dimmed at night per ALDOT / local brightness limits; photocell + astronomical clock control (see E-101).
- DRAINAGE / SEALING: cabinet tops sloped / flashed; all** penetrations sealed; weep / vent per vendor — no water path to pole interior except designed conduit entry.
- ACCESS FOR INSPECTION: rear doors / front-service modules** must be operable from catwalk without crane for routine service. Major module swap plan by vendor.
- FINISHES: exposed steel galvanised (ASTM A123) or 2-coat** paint system; touch-up after erection. No advertising on pole, catwalk or cabinet backs.

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Scale: NTS — DETAILS DIAGRAMMATIC

A-202

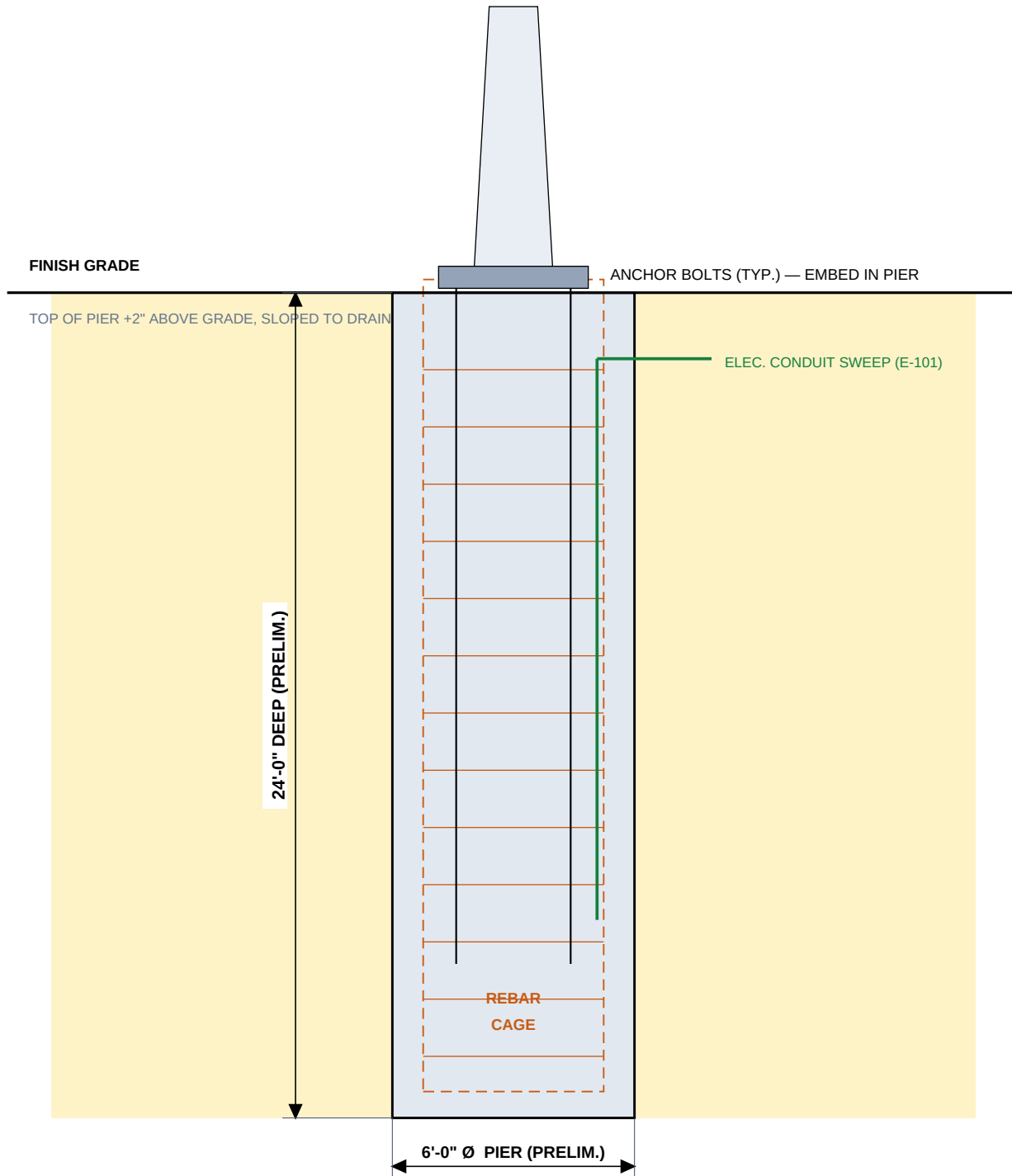
DISPLAY & ACCESS DETAILS

ANSI B 17 × 11

1) FOUNDATION & POLE — VERTICAL SECTION

PRELIMINARY — FINAL SIZE BY PE + GEOTECH

POLE (CONT. UP TO HEAD — A-201)



FOUNDATION NOTES — PRELIMINARY ONLY

F1. TYPE: cast-in-place drilled pier (shaft), reinforced concrete,
f'c = 4,000 PSI @ 28 days. Size shown — 6'-0" Ø x 24'-0" deep
below finish grade — is a PRICING / PE STARTING POINT ONLY.
It is NOT a final design.

F2. FINAL pier diameter, depth, socket / bell (if any), rebar and anchor-bolt embedment shall be designed by the Alabama PE of record from a site-specific geotechnical report (boring at pole, to at least 5' below proposed pier tip) and the LED / pole vendor's certified base reactions (moment, shear, axial, torsion) for the ASCE 7-22 wind case in S-201.

F3. PRELIM. REBAR (for pricing): vertical 12 — #9, ASTM A615 Gr.60;
ties / spirals #4 @ 6" o.c. top 5', 12" o.c. below; 3" clear cover.
PE to confirm / revise — do not order from this note alone.

F4. DRILLING: auger / shaft excavation inspected by PE / geotech;
dewater / case as soils require; place concrete promptly after
inspection; no pier in loose fill. Spoils & slurry per site plan.

F5. ANCHOR BOLT TEMPLATE: steel template by pole vendor, set level & to orientation (face west) before pour; survey-check bolt pattern, projection & plumb tolerance before erection.

F6. BACKFILL / GRADE: compact around pier top; concrete house pad
8' x 8' x 6" (min.) at base for cabinet / disconnect — PE / EOR
to confirm if pad is separate from pier cap.

MONOPOLE NOTES

P1. SHAFT: tapered round steel monopole, ASTM A572 Gr.65 / A595
(vendor std., PE-approved equal). Prelim. size: $\pm 42"$ $\varnothing$ at base
tapering to $\pm 26"$ $\varnothing$ at head, wall $\pm 3/8"$ — FINAL BY VENDOR + PE
calculations (deflection, P-delta, fatigue / vortex, splice).

P2. SECTIONS: shop-welded, slip-splice or flange splice (S-201);
hot-dip galvanised ASTM A123 inside & out where practicable.

P3. PLUMB: erected plumb within vendor / PE tolerance; head level so face is plumb. Shim / levelling nuts per S-201 detail.

P4. OPENINGS: handhole at base with cover; internal raceway for power / data from base to head — no exposed cable on pole.

P5. SIGN HEAD CONNECTION designed for vendor reactions incl. eccentric dead load of single-sided face (torsion at pole).

■ DESIGN REACTIONS — TO BE CERTIFIED BY VENDOR + PE (PRELIM. ESTIMATES FOR PRICING ONLY, S-201)

Service wind overturning at grade: $\approx 300\text{--}380$ kip-ft • Base shear: $\approx 11\text{--}14$ kips • Dead (pole + head + display): $\approx 14\text{--}20$ kips
These are order-of-magnitude estimates from the S-201 wind basis. They MUST be replaced by signed vendor / PE reactions before foundation fabrication, anchor-bolt order, or any concrete pour.

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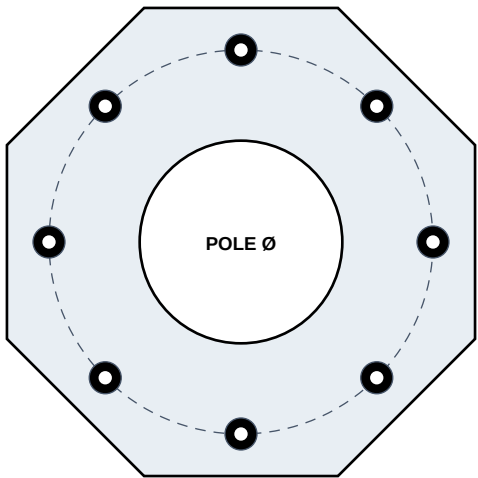
Scale: NTS — PRELIM. FOUNDATION

S-101

FOUNDATION & MONOPOLE

ANSI B 17 × 11

1 BASE PLATE & ANCHOR PLAN (LOOKING DOWN)



8 — 2¼" Ø ANCHOR BOLTS ON ±48" BOLT CIRCLE (PRELIM.)

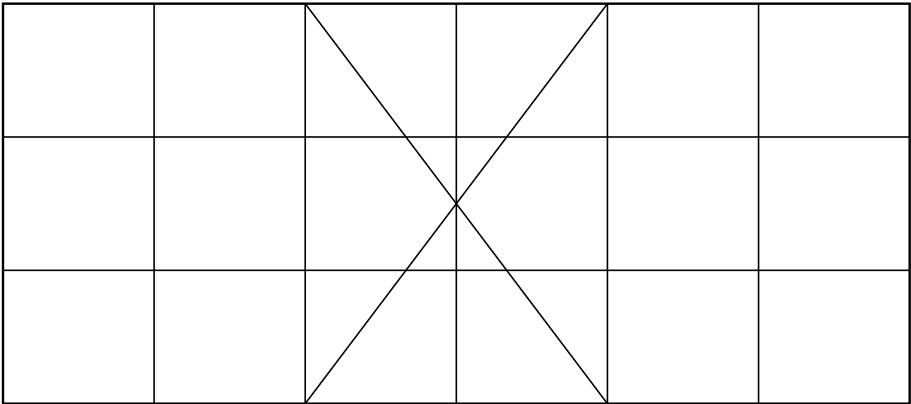
BASE PLATE: ±54" OCTAGON × 2½" THK, ASTM A572 Gr.50 (PRELIM.)

DETAIL — BASE (PRELIM., PE TO FINALISE):

Levelling nuts below plate, full-diameter non-shrink grout bed 2" nom., top nuts torqued per vendor / PE spec. Bolt projection, thread & embed — vendor template. Weld pole-to-plate: complete-joint-penetration / fillet per vendor WPS, UT/MT as PE specifies.

2 HEAD FRAME — FRONT FRAMING ELEVATION

HSS / ANGLE STRINGERS — VENDOR DESIGN, PE REVIEW



CABINETS BOLT TO STRINGERS — NO FIELD WELD TO CABINETS

Members (prelim.): horizontals HSS 6×4×¼, verticals HSS 4×4×¼, diagonals L3×3×¼ — ALL PRELIM., vendor + PE to size for wind, dead, ice (if applicable) & fatigue. Connections bolted A325 galv. unless vendor WPS weld is PE-approved.

PRELIMINARY

NOT FOR CONSTRUCTION

3 WIND LOAD BASIS (ASCE 7-22)

WIND BASIS — FOR PE CONFIRMATION:

Vult = 115 MPH (confirm Madison Co. map / Risk Cat.)
Exposure C • Kd = 0.85 • Kzt = 1.00 • Ke ≈ 1.00
Kz @ 27' (face centre) ≈ 0.94
qz = 0.00256·Kz·Kzt·Kd·Ke·V² ≈ 27 PSF
Gust / Cf for flat sign: G ≈ 0.85, Cf ≈ 1.20 (PE to apply ASCE 7-22 Ch. 29 for solid freestanding signs)
Design pressure ≈ 28–40 PSF on 336 SF
→ Face wind force ≈ 10–13 kips @ 27' A.F.F.
→ Overturning ≈ 270–350 kip-ft (face alone);
add pole wind ≈ 30–50 kip-ft → use S-101 box.

OTHER LOADS:

Dead: display + head + pole (vendor weights).
No ice load assumed in prelim. — PE to check ASCE Ch. 10 for Madison Co. Seismic: PE to check Ss/S1, Site Class (geotech) — wind will normally govern for this structure type.

DEFLECTION / SERVICEABILITY:

Pole / head deflection & twist under service wind to stay within LED vendor limits so cabinet joints & image alignment are maintained.

MATERIALS SCHEDULE

Structural steel shapes/plate: ASTM A572 Gr.50 (min.)
Pole shaft: A572 Gr.65 / A595 Gr.A — vendor + PE
Bolts: A325 / F3125 galv.; Anchor bolts: F1554 Gr.55, galv.
Concrete pier: f'c 4,000 PSI, air-entrained, Type I/II cement
Rebar: ASTM A615 Gr.60 • Grout: non-shrink, 5,000 PSI min.
Galvanising: ASTM A123 / A153 as applicable

WELDING & FABRICATION

AWS D1.1 Structural Welding — Steel. WPS / PQR on file.
E70XX electrodes (min.). No field welds without PE approval.
Fabricator to be experienced in monopole / sign structures; provide mill certs, galv. certs & torque / tension records.
Erection: crane pick plan, tag lines, OSHA 1926 Subpart CC; never erect in wind above crane / vendor limit.

SPECIAL INSPECTION & QA

Survey-check anchor template before pour; photo record.
Concrete: slump / air / cylinders per pour (PE / geotech).
Torque / tension verification on base & splice bolts.
Post-erection plumb survey + punch: galv. touch-up, hand-hole, raceway, grounding bond (E-101) & controller test.

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S-201

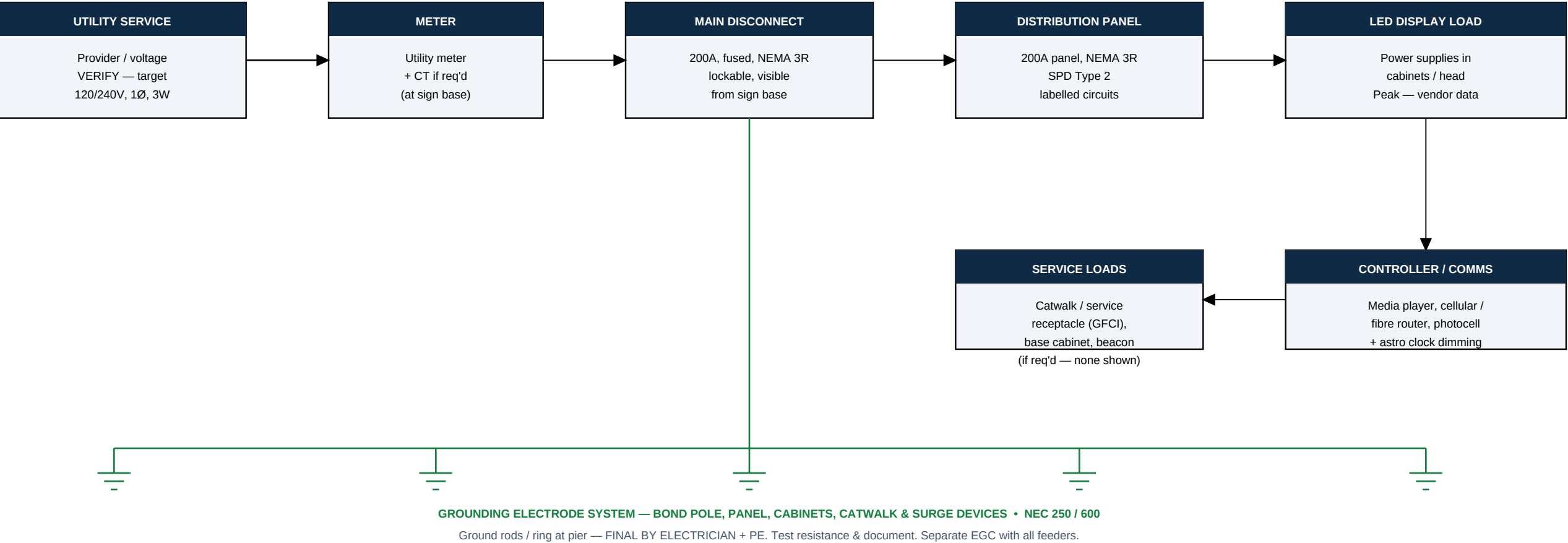
STRUCTURAL DETAILS

ANSI B 17 × 11

1 ELECTRICAL SINGLE-LINE DIAGRAM

PRELIMINARY

NOT FOR CONSTRUCTION



2 PRELIMINARY LOAD ESTIMATE — VERIFY WITH VENDOR

LED display (peak, vendor to certify)	336 SF — 85–110A @ 240V peak; avg. 40–60%
Controller, comms, fans / ventilation	10A @ 120V
Service receptacle / misc.	20A GFCI circuit (non-continuous)
Service size (prelim.)	200A, 120/240V, 1-phase — vendor + utility
	in writing before ordering service

ELECTRICAL NOTES

- E1. NEC 2023 Art. 600, 250, 310; licensed AL** electrician; permit & inspection required.
- E2. Raceway: underground PVC (Sch. 80 where** exposed) to pole base, internal raceway to head; separate power & data conduits.
- E3. Disconnect in sight of sign (NEC 600.6),** labelled 'BILLBOARD — PARCEL 29554'; SPD at service & display (tall steel, lightning).
- E4. Dimming: photocell + schedule; display** fails to dark / static on fault.
- E5. Utility coordination is critical-path —** confirm provider, point, route & lead time in writing before foundation pour.

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ELECTRICAL PLAN

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