

VIEW 1



VIEW 2

A 1 1 **GATE 2 PERSPECTIVE**

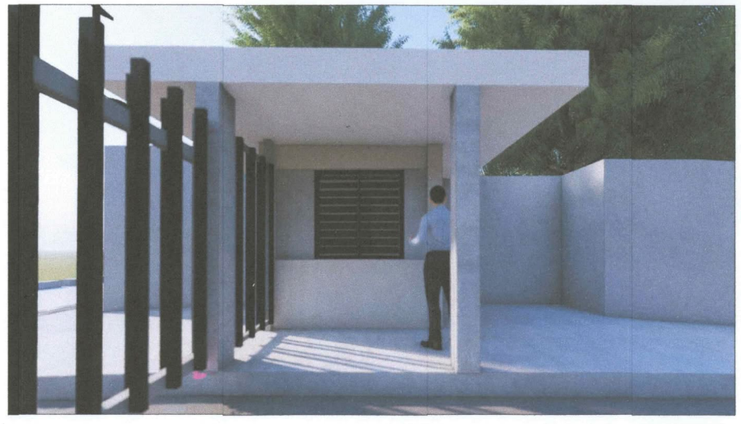
SCALE: NTS



VIEW 1



VIEW 2



VIEW 3

A 1 2 **GUARD HOUSE PERSPECTIVE**

SCALE: NTS

A 1 0 **P E R S P E C T I V E S**

SCALE: NTS

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REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE
CLAIM N. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
TELEPHONE # (088)22) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696
WEBSITE: www.ustp.edu.ph

AR. FERNAND G. MACAS, UAP
ARCHITECT
PRC NO.: 0034616 | PTR NO.: 4905589 B
VALIDITY: 6 JUNE 2027 | DATE: 22 JANUARY, 2026
TIN NO.: 601-357-467 | PLACE: CDO CITY, MIS.OR.

PROJECT: PROPOSED CONSTRUCTION OF GATE 2
LOCATION: USTP CAGAYAN DE ORO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: ENGR. GRACE C. BABA — DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE
RECOMMENDING APPROVAL: ATTY. DIONEL O. ALBINA — CHANCELLOR, USTP CAGAYAN DE ORO CAMPUS
RECOMMENDING APPROVAL: ATTY. JONATHAN S. OCHE — VP FOR ADMINISTRATION & LEGAL AFFAIRS
APPROVED BY: DR. AMBROSIO B. CULTURA II — PRESIDENT, USTP SYSTEM

SHEET CONTENTS: PERSPECTIVES
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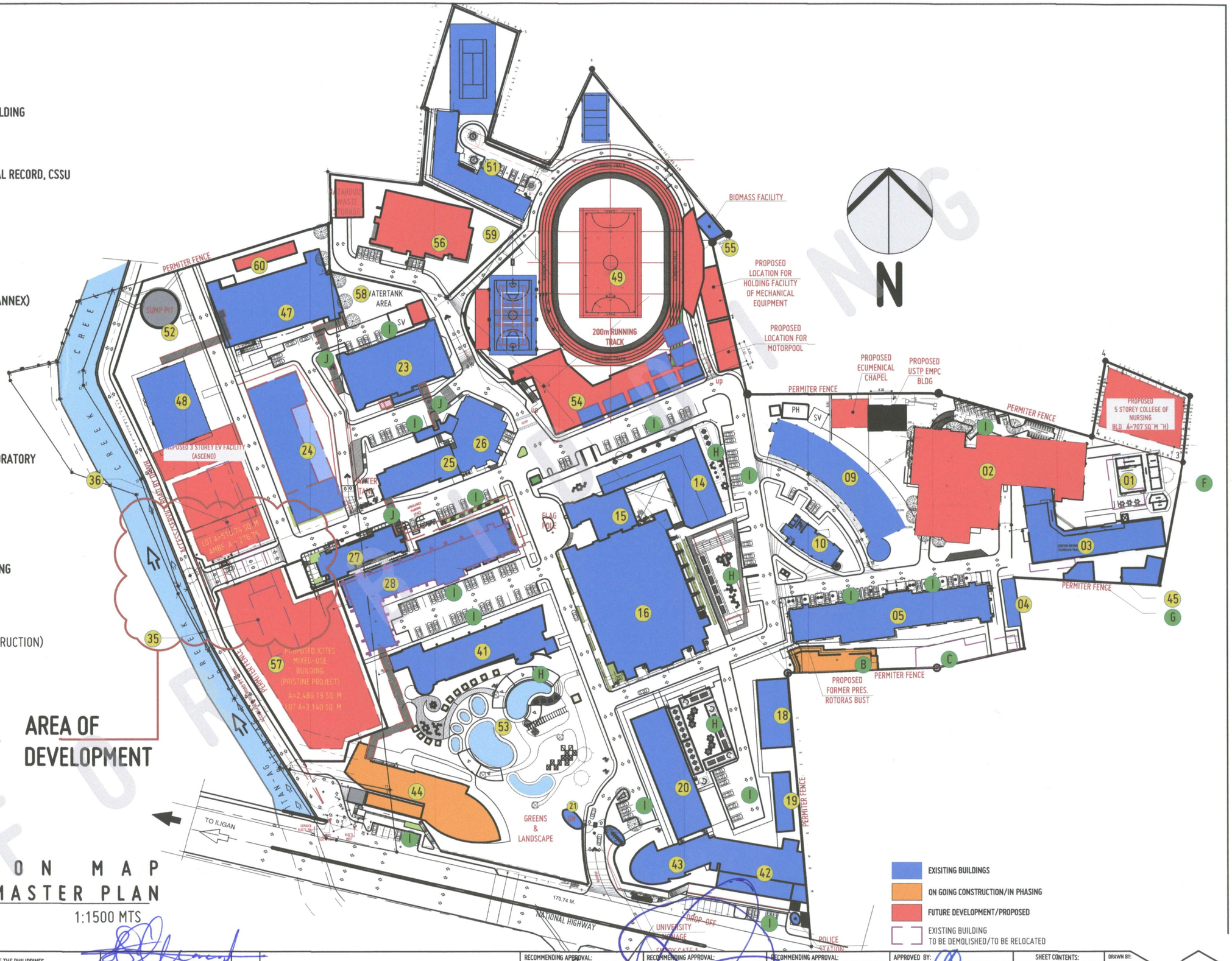
A1

FOR BIDDING

1 CULTURE & ARTS BUILDING
2 PROPOSED COLLEGE OF MEDICINE BUILDING
3 ITB
4 BGMU STORAGE
5 CIVIL AND MECHANICAL LABORATORIES BUILDING
9 ICT BUILDING
10 ADMINISTRATION BUILDING
14 FINANCE & SENIOR HIGH SCHOOL
15 GYM LOBBY, HRMU, PROCUREMENT, CENTRAL RECORD, CSSU
16 DR. RER MEMORIAL HALL
18 CULINARY BUILDING
19 NSTP BUILDING
20 CAFETERIA
21 GUARD HOUSE
23 LEARNING RESOURCE CENTER
24 GIRLS TRADE
25 FOOD INNOVATION CENTER (OLD TO NEW/ANNEX)
27 ONGOING UNIVERSITY HEALTH CENTER
28 OLD SCIENCE BUILDING
35 OLD EDUCATION BUILDING
36 MAKESHIFT FABRICATION LABORATORY
41 SCIENCE COMPLEX BUILDING
42-43 ENGINEERING COMPLEX BUILDING-A&B
44 STUDENT CENTER & EDUCATION COMPLEX
45 SUPPLY OFFICE
47 TECHNOLOGY & ENGG LAB BUILDING (COT)
48 ENGINEERING DESIGN & FABRICATION LABORATORY
49 SPORTS COMPLEX
51 DORMITORIES
52 SUMP PIT
53 RAINWATER DETENTION PONDS
54 PROPOSED CLASSROOM BUILDING 1
55 BIOMASS
56 PROPOSED 8TH STOREY CLASSROOM BUILDING
57 PROPOSED ICITES BUILDING
- MIXED-USE COMMERCIAL BUILDING

B UNIVERSITY RESIDENCE (ONGOING CONSTRUCTION)
C CSWU FABRICATION SHOP
D MECHANICAL FABRICATION LABORATORY
E CMO OFFICE
F EXTERNAL COMFORT ROOMS
G SPED CENTER/CHILD MINDING
H STUDENT LOUNGE/OUTDOOR STUDY AREA
I CAR PARKING AREA
J PROPOSED BRIDGES

AREA OF DEVELOPMENT



EXISITING BUILDINGS
ON GOING CONSTRUCTION/IN PHASING
FUTURE DEVELOPMENT/PROPOSED
EXISTING BUILDING TO BE DEMOLISHED/TO BE RELOCATED

A 2 1

LOCATION MAP
USTP CDO MASTER PLAN

SCALE: 1:1500 MTS

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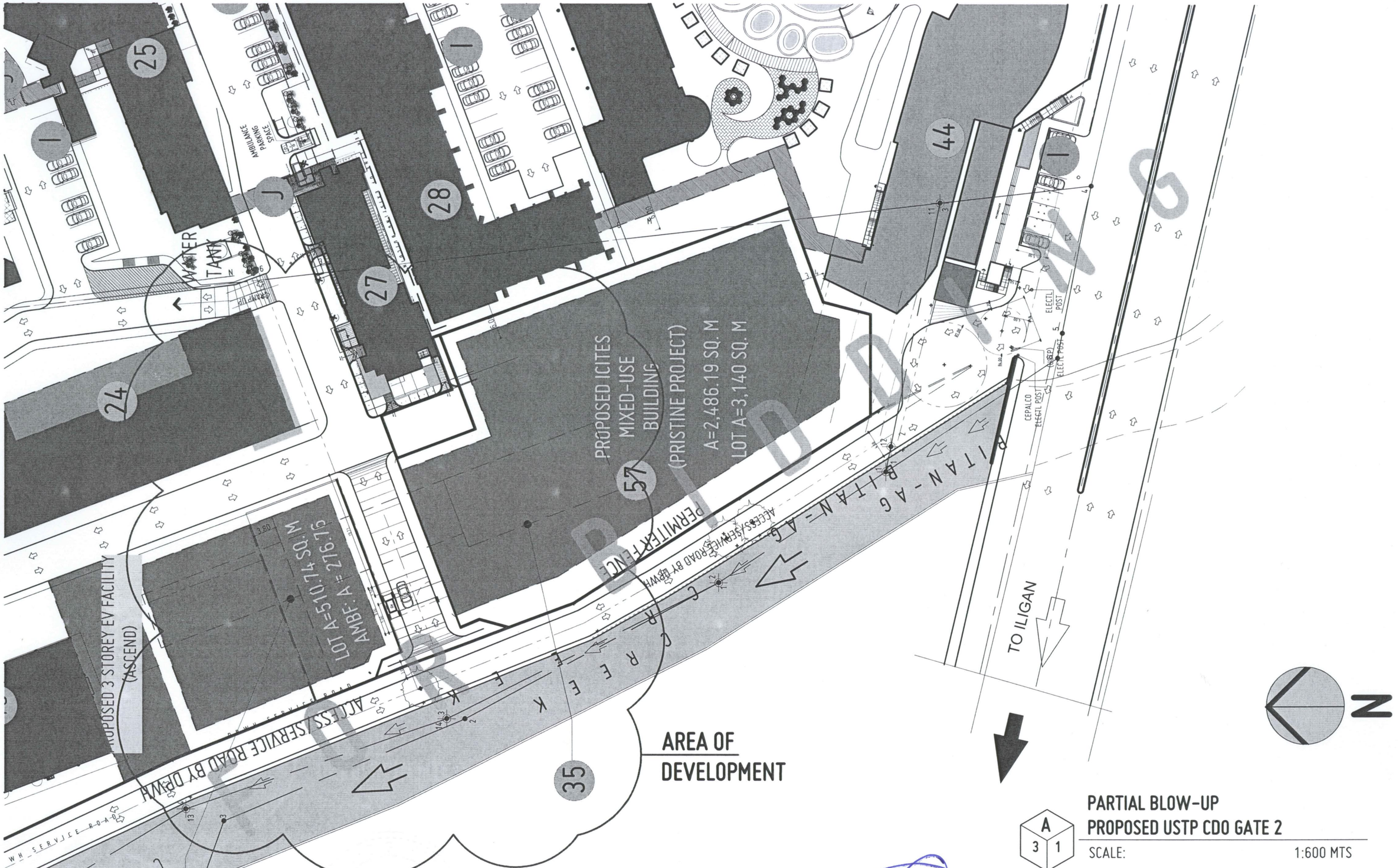
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ENGR. GRACE C. BABA	ATTY. DIONEL O. ALBINA	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO CAMPUS	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS: LOCATION MAP
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FNT:

A2



PARTIAL BLOW-UP
PROPOSED USTP CDO GATE 2

SCALE: 1:600 MTS

A 3 1

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000 TELEPHONE # (08822) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696 WEBSITE: www.ustp.edu.ph	AR. FERNAND G. MACAS, UAP ARCHITECT PRC NO.: 0034616 PTR NO.: 4905589 B VALIDITY: 6 JUNE 2027 DATE: 22 JANUARY, 2026 TIN NO.: 601-357-467 PLACE: CDO CITY, MIS.OR.	PROJECT	PROPOSED CONSTRUCTION OF GATE 2	RECOMMENDING APPROVAL: ENGR. GRACE C. BABA DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	RECOMMENDING APPROVAL: ATTY. BIONEL O. ALBINA CHANCELLOR, USTP CAGAYAN DE ORO CAMPUS	RECOMMENDING APPROVAL: ATTY. JONATHAN S. OCHE VP FOR ADMINISTRATION & LEGAL AFFAIRS	APPROVED BY: DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM	SHEET CONTENTS: PARTIAL BLOW-UP PROPOSED USTP CDO GATE 2	DRAWN BY: DATE DRAWN: FNT:	A3
		LOCATION	USTP CAGAYAN DE ORO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY							
		OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES							

36

NEW CHB PERIMETER FENCE (SEE FENCE 1 DETAILS)

LOT RESERVED FOR COMMERCIAL USE
EXTENSION LOT

4.60

3.00 5.00 3.00 22.71 3.00
8.00 19.71
3.00 1.30 1.50 1.50 1.50 1.50 1.50 1.50

GH

R3.23

SIDEWALK SIDEWALK SIDEWALK

CREEK

25.84
23.45

RAMP UP

TRANSITION TRANSITION TRANSITION

R A M P U P

L/2 L/2

6.10

VERIFY ACTUAL ROAD WIDTH ALONG UHC

2.00

EXISTING ROAD

24
GIRL'S TRADE BLDG

R3.00

5.00

SIDEWALK SIDEWALK SIDEWALK

1.60

NEW PERIMETER FENCE (SEE FENCE 2 DETAILS)

DRAIN TRENCH @
THE LOWEST LEAVEL OF RAMP

NEW CHB PERIMETER FENCE

UNIVERSITY HEALTH CENTER

27

CANOPY LINE

PROPOSED ICITES MIXED-USE BUILDING
(COMMERCIAL ZONE)

EXISTING ROAD

57

35

EXISTING FENCE FOR CHIPPING

HATCHED ZONE FOR 2ND PHASE

A 4 1

B L O W - U P P L A N
VEHICULAR RAMP & ACCESS ROAD DETAILS

SCALE: 1:150 MTS

1ST PHASE AREA COVERAGE
(RETAINING WALL, ON FILL, GATE AND ROAD CONCRETING ONLY)

FOR BIDDING

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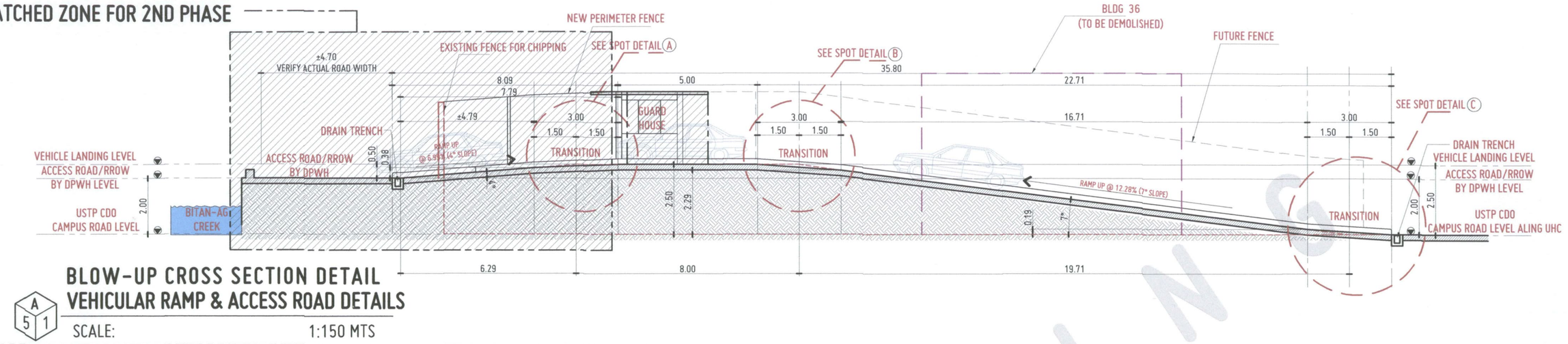
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SHEET CONTENTS: VEHICULAR RAMP DETAILS, BLOW-UP DETAILS, BLOW-UP PLAN

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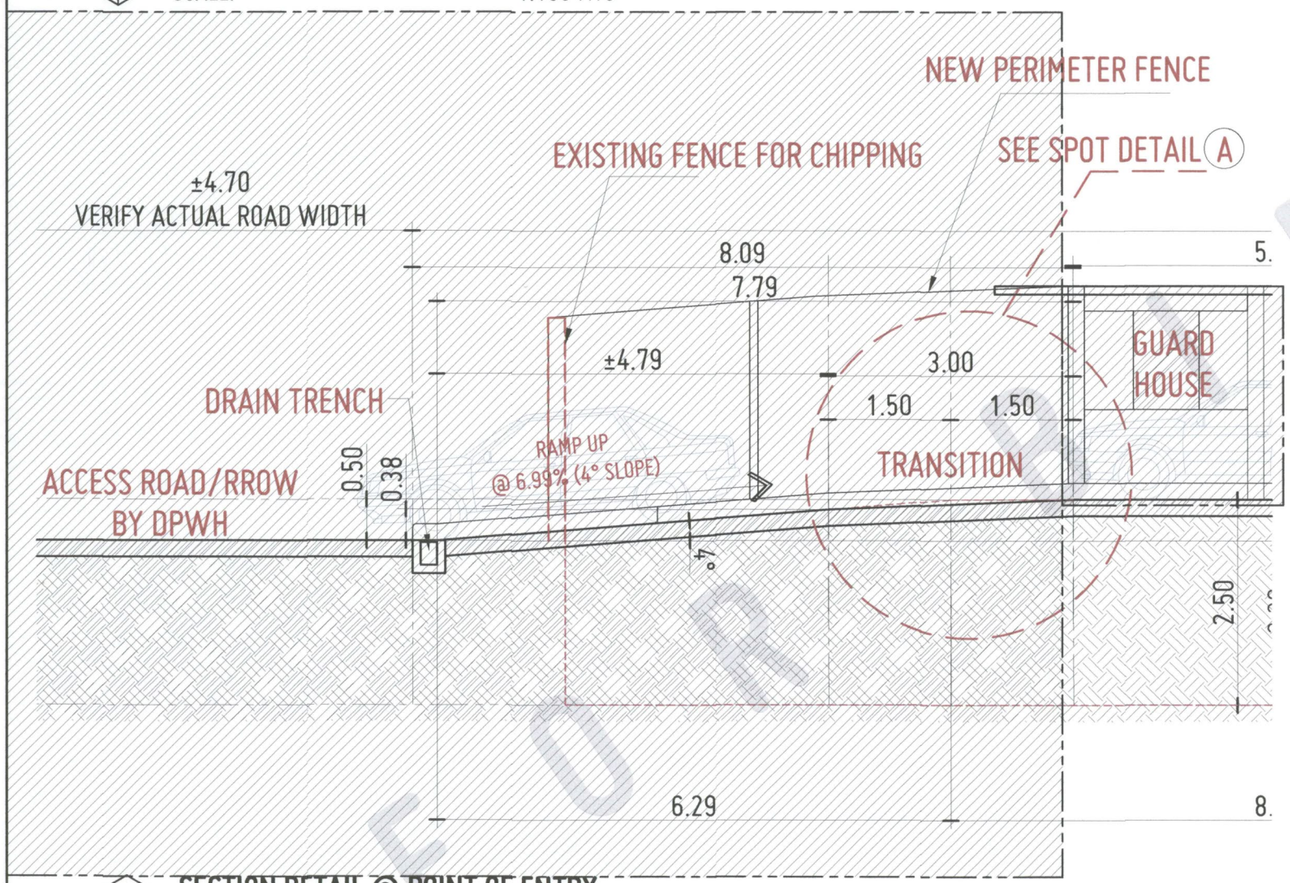
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A 5 1

BLOW-UP CROSS SECTION DETAIL
VEHICULAR RAMP & ACCESS ROAD DETAILS

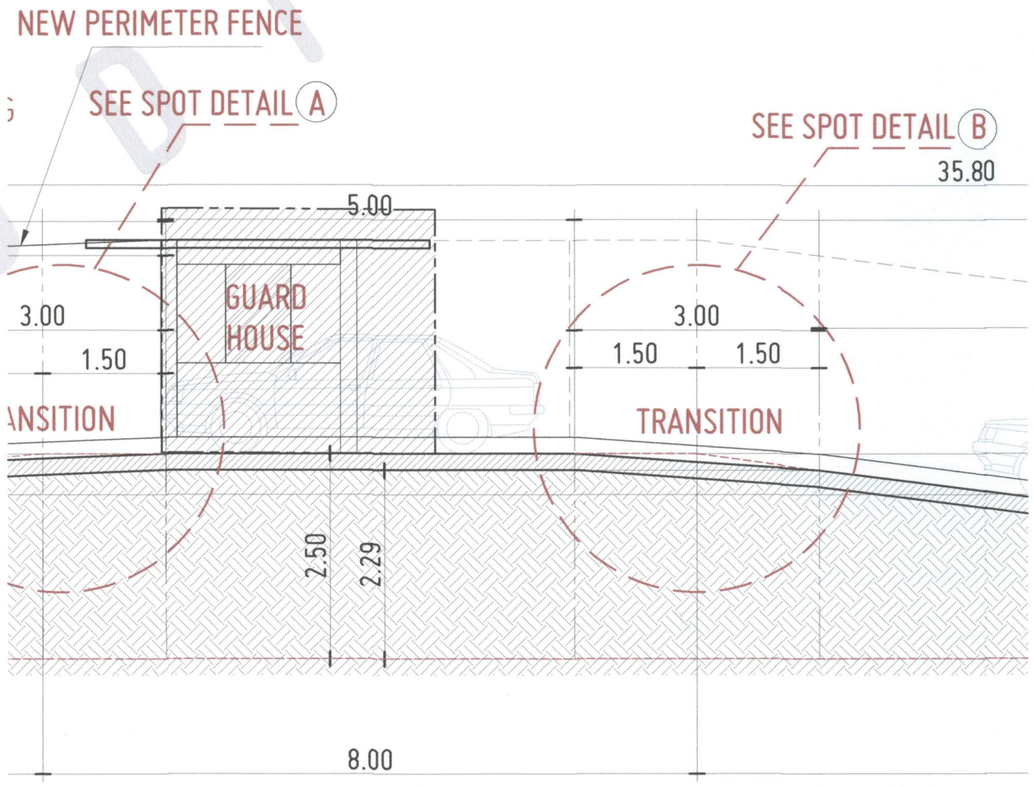
SCALE: 1:150 MTS



A 5 2

SECTION DETAIL @ POINT OF ENTRY

(FOR PHASE 2)



A 5 3

SECTION DETAIL @ VEHICULAR LANDING

A

PARTIAL BLOW-UP SECTION DETAILS
VEHICULAR RAMP & ACCESS ROAD DETAILS

SCALE: 1:75 MTS

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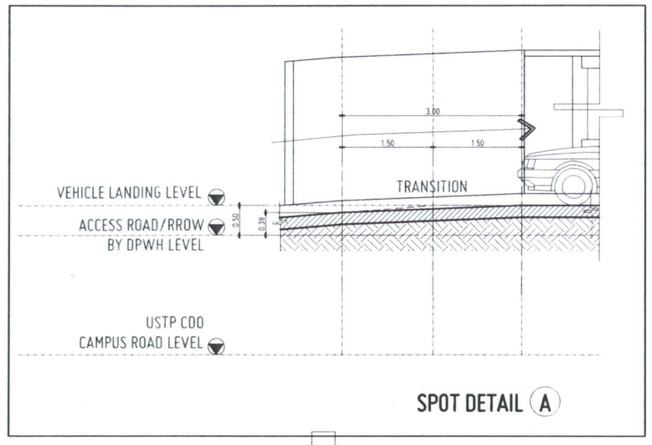
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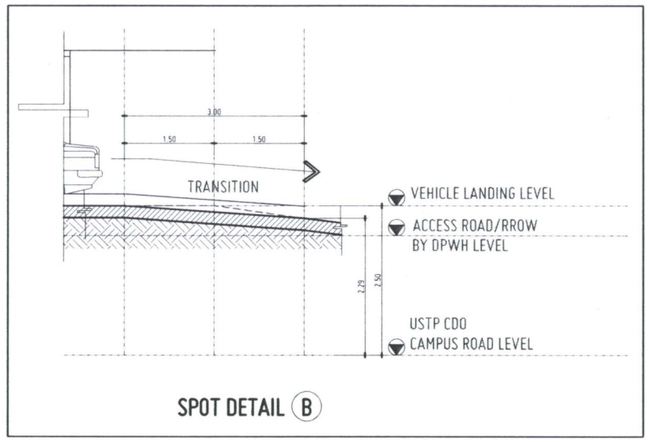
SHEET CONTENTS:
VEHICULAR RAMP DETAILS
BLOW-UP DETAILS
BLOW-UP CROSS SECTION DETAIL
SECTION DETAIL @ POINT OF ENTRY
SECTION DETAIL @ VEHICULAR LANDING

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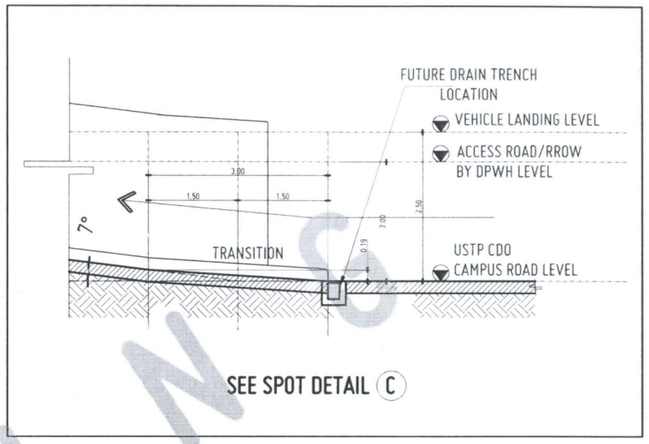
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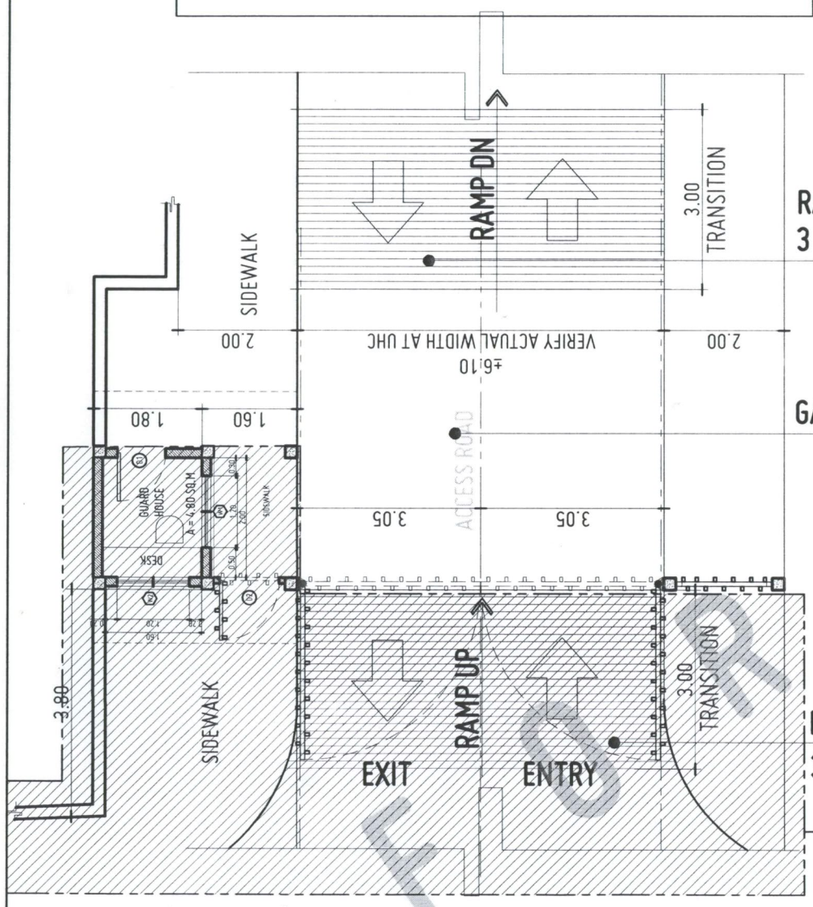
SPOT DETAIL (A)



SPOT DETAIL (B)



SEE SPOT DETAIL (C)



RAMP DN W/
3 METER TRANSITION

GATE 2 DETAILS

RAMP UP W/
3 METER TRANSITION

HATCHED ZONE
FOR 2ND PHASE

A 6 2

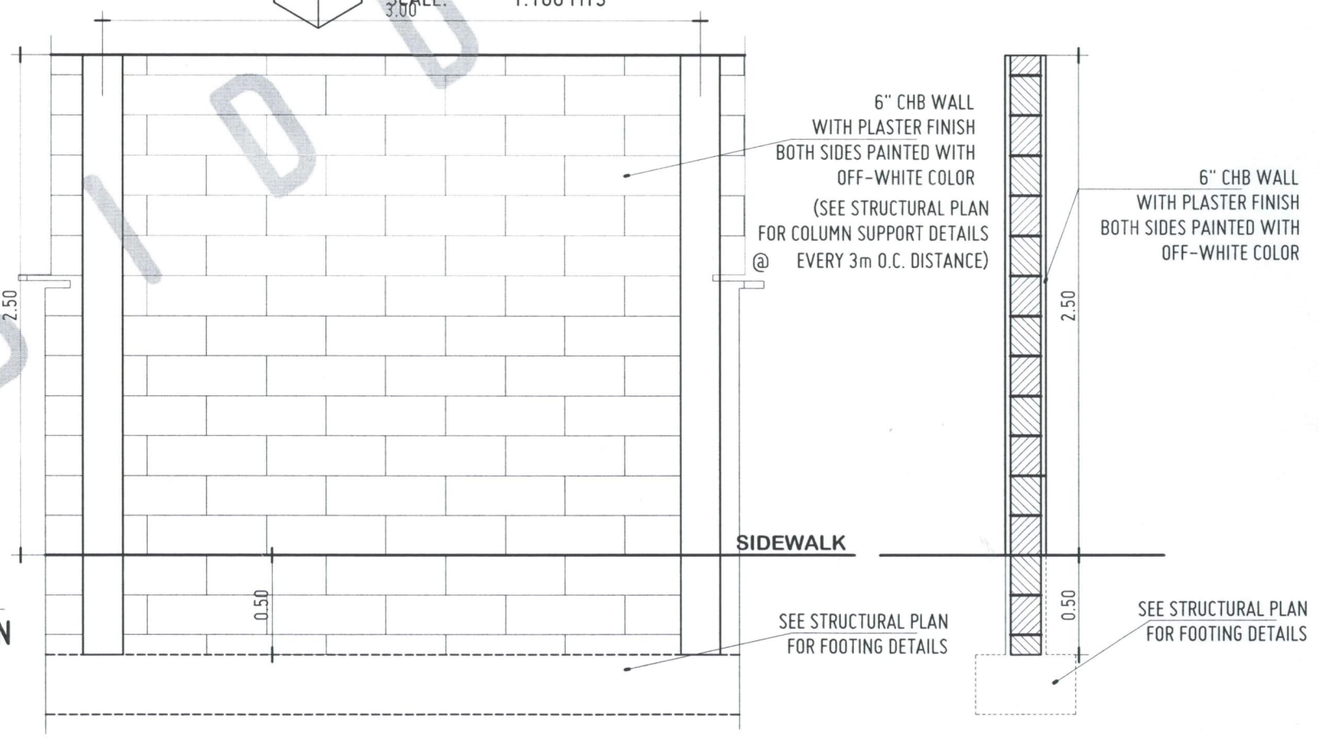
GATE 2 ENTRANCE BLOW-UP PLAN

SCALE: 1:50 MTS

A 6 1

VEHICULAR RAMP TRANSITION DETAILS

SCALE: 1:100 MTS



A 6 3

FENCE 1 DETAILS

SCALE: 1:30 MTS

BIDDING

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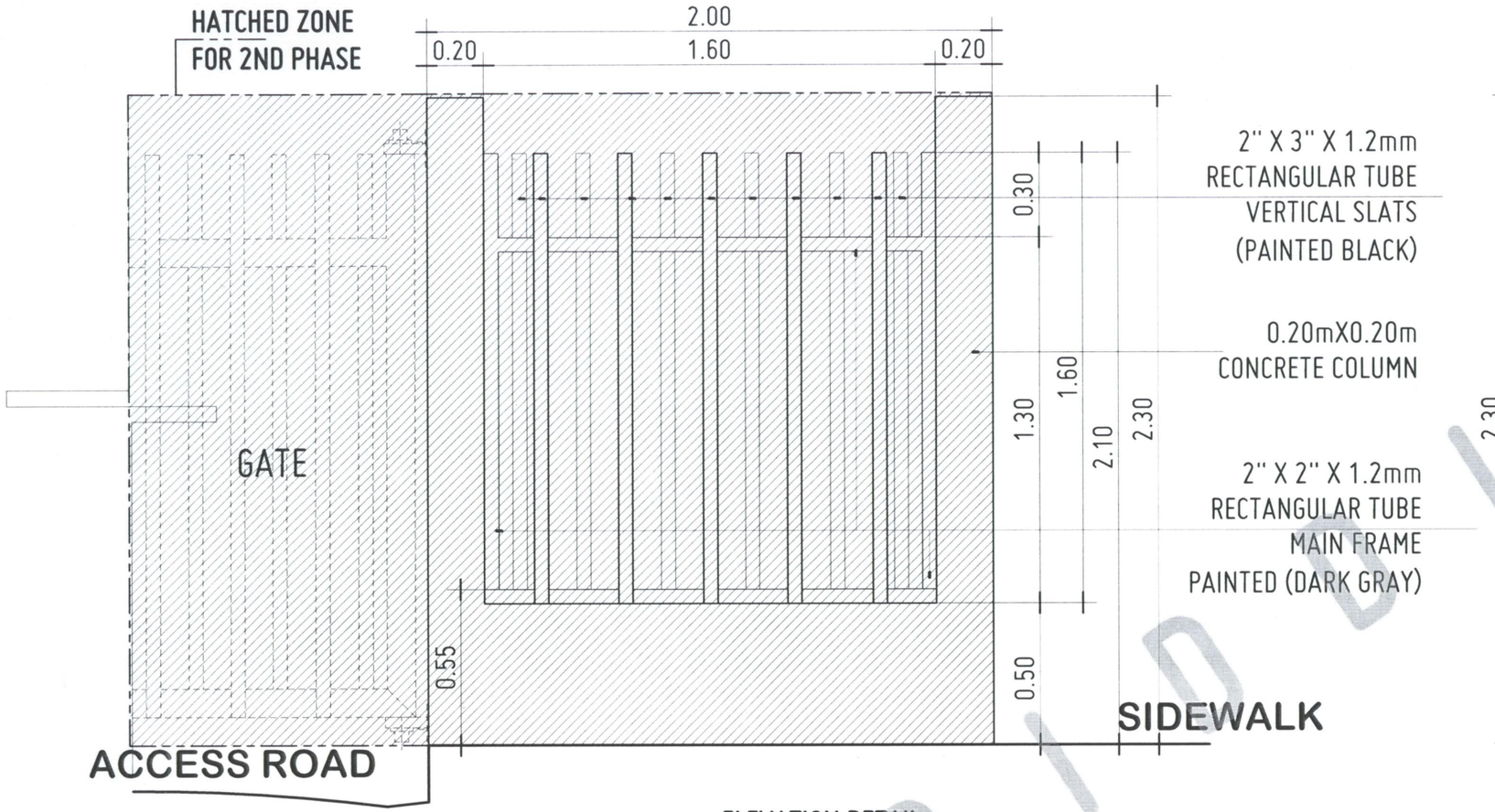
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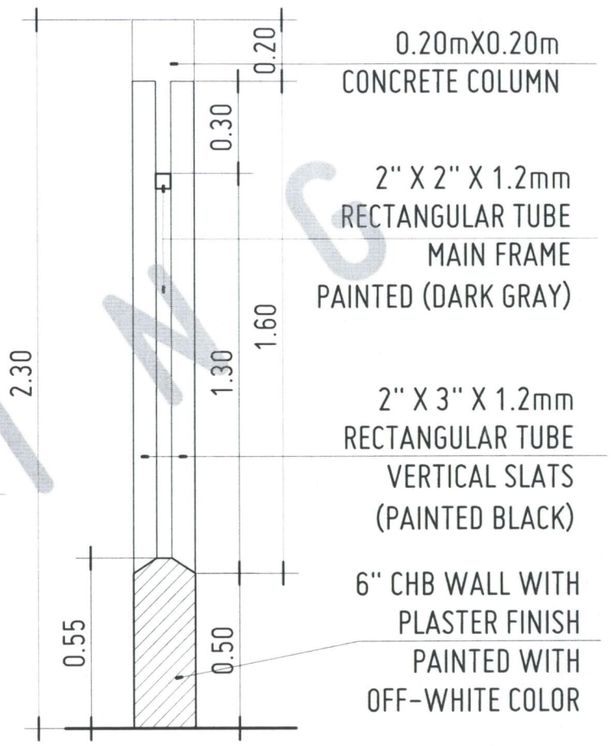
APPROVED BY:
DR. AMBROSIO B. CULTURA II
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GATE 2 BLOW-UP PLAN
VEHICULAR RAMP TRANSITION DETAILS
FENCE 1 DETAILS

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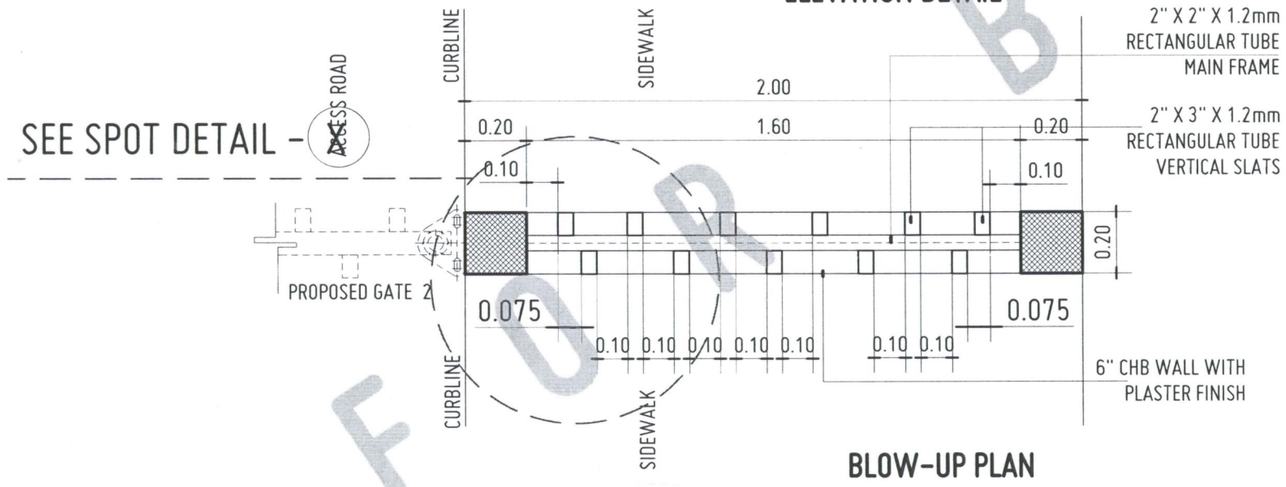
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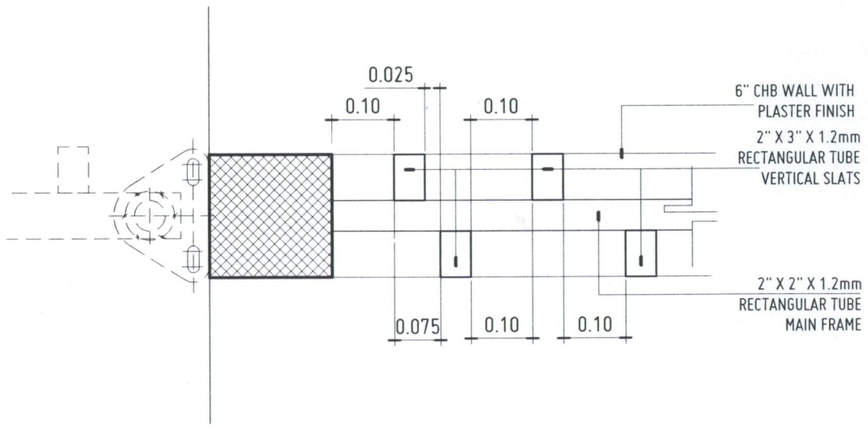




SECTION DETAIL

ELEVATION DETAIL





BLOW-UP PLAN

A / 7 1

FENCE 2 DETAILS

SCALE: 1:20 MTS

(FOR PHASE 2)

A / 7 2

SPOT DETAIL - X

SCALE: 1:10 MTS

(FOR PHASE 2)

HATCHED AREA
FOR 2ND PHASE

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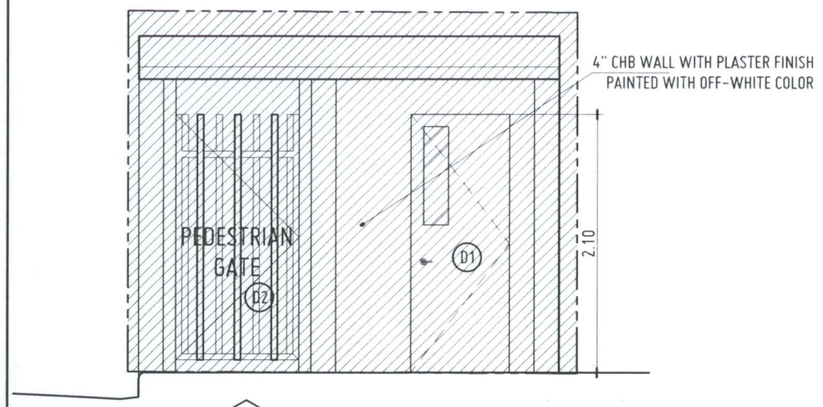
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FENCE 2 DETAILS
BLOW-UP PLAN
ELEVATION DETAIL
SECTION DETAIL
SPOT DETAIL - X

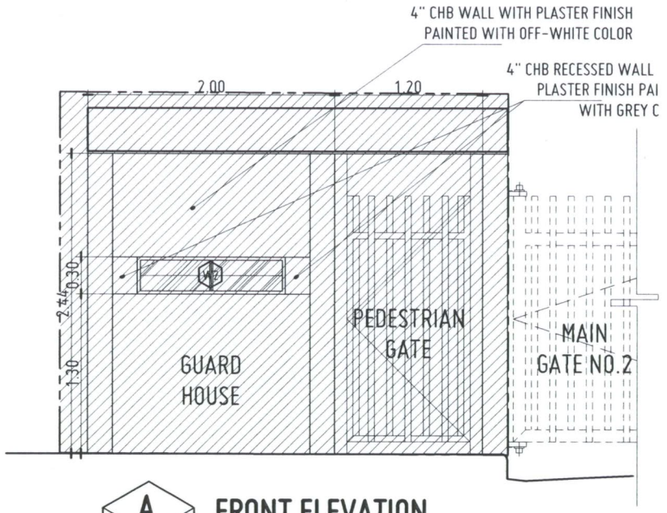
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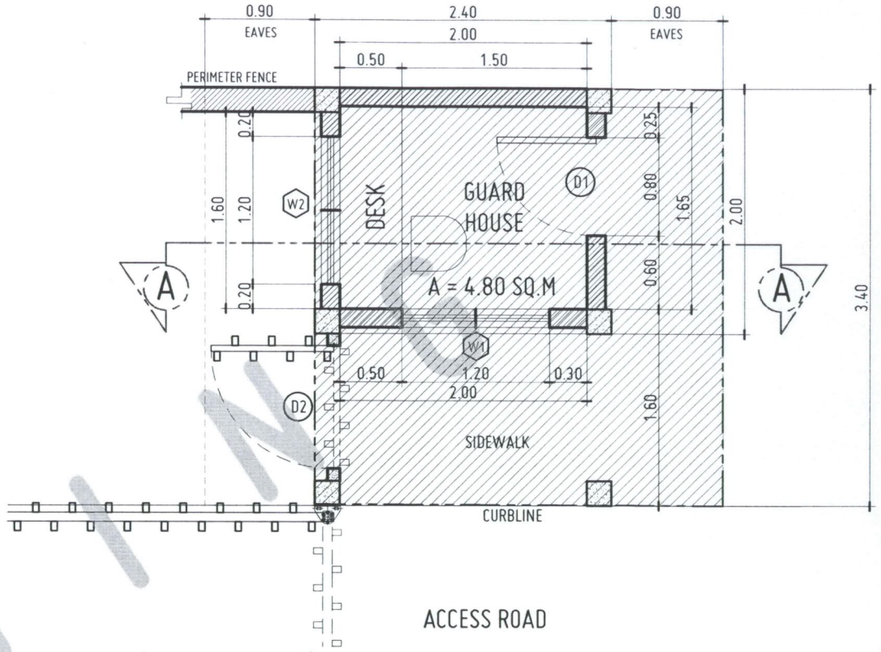
FOR BIDDING



A 8 3 **REAR ELEVATION**
SCALE: 1:50 MTS

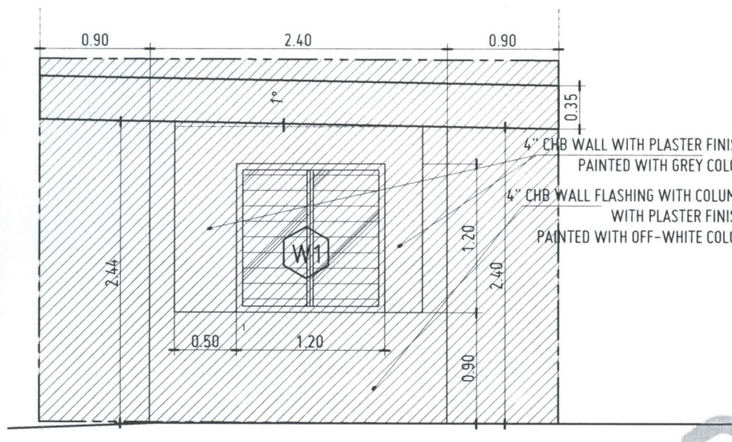


A 8 2 **FRONT ELEVATION**
SCALE: 1:50 MTS

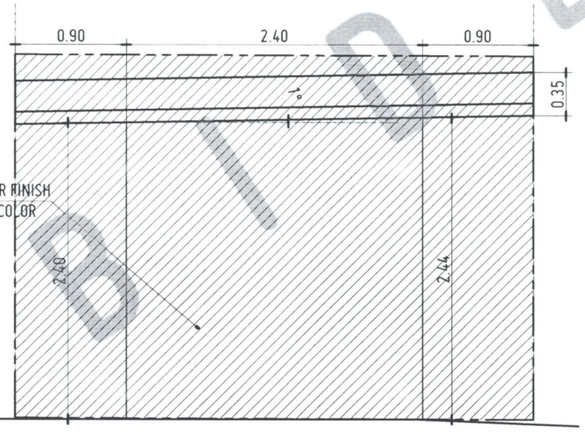


ACCESS ROAD

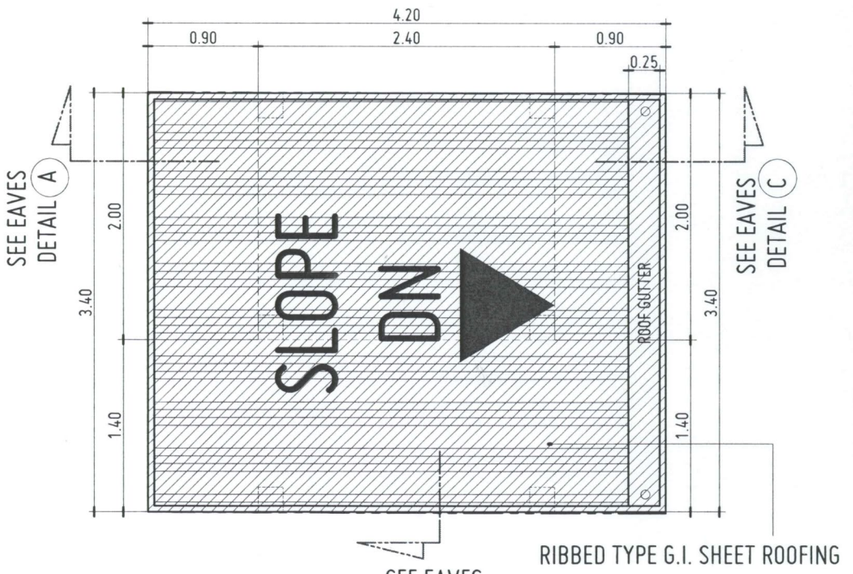
A 8 1 **BLOW-UP PLAN**
SCALE: 1:50 MTS



A 8 4 **RIGHT-SIDE ELEVATION**
SCALE: 1:50 MTS



A 8 5 **LEFT-SIDE ELEVATION**
SCALE: 1:50 MTS



A 8 6 **ROOF PLAN**
SCALE: 1:50 MTS

HATCHED AREA FOR 2ND PHASE

A 8 0 **GUARD HOUSE DETAILS**
SCALE: 1:50 MTS

FOR BIDDING

USTP

REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE
CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
TELEPHONE # (08822) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696
WEBSITE www.ustp.edu.ph

AR. FERNANDO G. MACAS, UAP
ARCHITECT
PRC NO.: 0034616 | PTR NO.: 4905589 B
VALIDITY: 6 JUNE 2027 | DATE: 22 JANUARY, 2026
TIN NO.: 601-357-467 | PLACE: CDO CITY, MIS.OR.

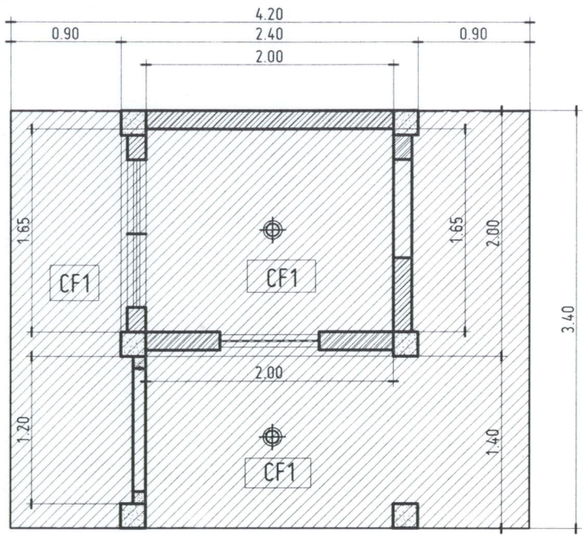
PROJECT: PROPOSED CONSTRUCTION OF GATE 2
LOCATION: USTP CAGAYAN DE ORO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: ENGR. GRACE C. BABA — DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE
RECOMMENDING APPROVAL: ATTY. DIONEL O. ALBINA — CHANCELLOR, USTP CAGAYAN DE ORO CAMPUS
RECOMMENDING APPROVAL: ATTY. JONATHAN S. OCHE — VP FOR ADMINISTRATION & LEGAL AFFAIRS
APPROVED BY: DR. AMBROSIO B. CULTURA II — PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GUARD HOUSE DETAILS
BLOW-UP PLAN
ROOF PLAN
FRONT ELEVATION
LEFT-SIDE ELEVATION
REAR ELEVATION
RIGHT-SIDE ELEVATION

DRAWN BY:
DATE DRAWN:
FNT:

A8



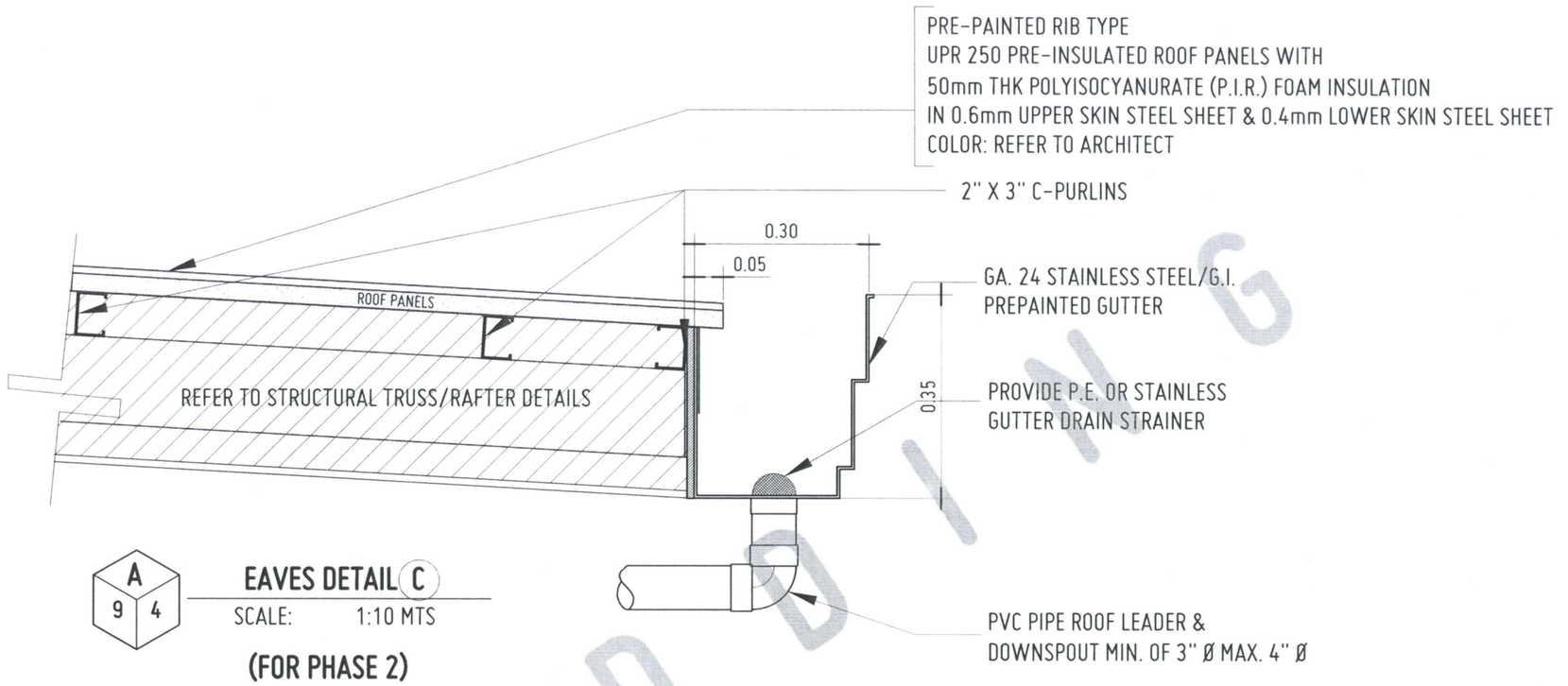
A 9 1

REFLECTED CEILING PLAN

SCALE: 1:50 MTS

CEILING FINISHES	
MARK	DESCRIPTION
CF-1	6mm HARDILEX BOARD ON LIGHT METAL FRAME

OPEN LIGHT

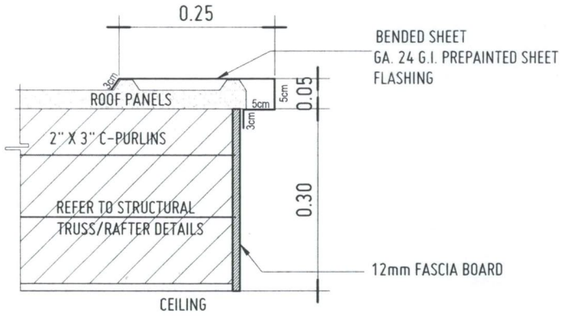


A 9 4

EAVES DETAIL C

SCALE: 1:10 MTS

(FOR PHASE 2)

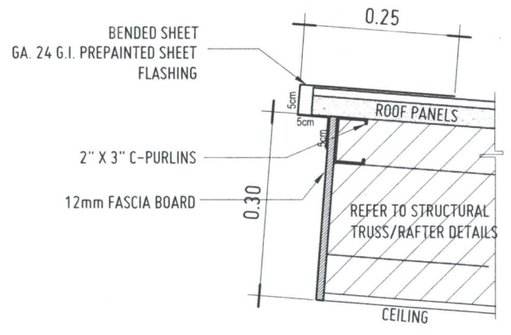


A 9 3

EAVES DETAIL B

SCALE: 1:10 MTS

(FOR PHASE 2)

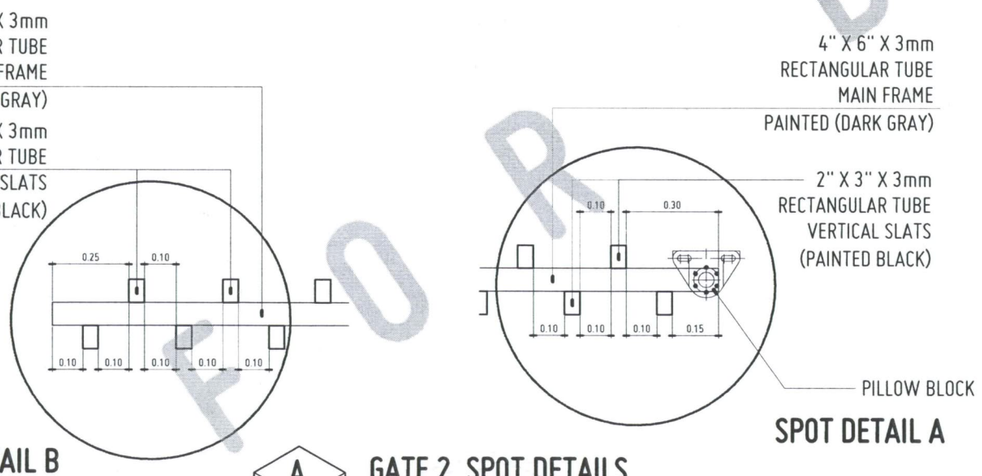


A 9 2

EAVES DETAIL A

SCALE: 1:10 MTS

(FOR PHASE 2)



SPOT DETAIL B

SPOT DETAIL A

A 10 3

GATE 2 SPOT DETAILS

SCALE: 1:10 MTS

HATCHED AREA
FOR 2ND PHASE

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ARCHITECT
PRC NO.: 0034616 | PTR NO.: 4905589 B
VALIDITY: 06 JUNE 27 | DATE: 22 JAN 2027
TIN NO.: 601-357-469 | PLACE: CDOC, MISOR

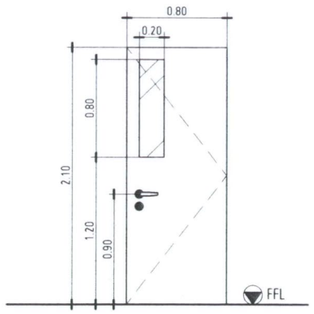
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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO CAMPUS	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
REFLECTED CEILING PLAN
EAVES DETAIL A
EAVES DETAIL B
EAVES DETAIL C
WALL PROTRUSION DETAILS

DRAWN BY:
DATE DRAWN:
FNT:

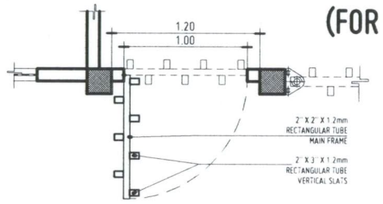
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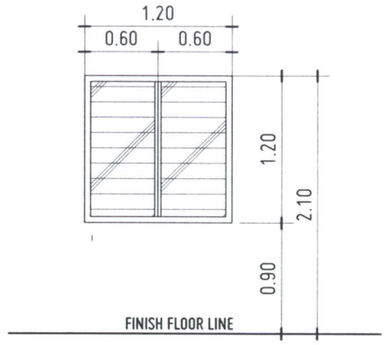


D1

TYPE:	SINGLE LEAF WOODEN FLUSH DOOR WITH LITE
SET:	1 SET
DESCRIPTION:	SINGLE LEAF HOLLOW CORE FLUSH DOOR, PAINTED WITH COLOR OFF WHITE WITH 6MM THK. CLEAR GLASS VIEWING WINDOW, INCLUDING ALL NECESSARY FIXINGS, ALL IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS
LOCATION:	GUARD HOUSE ENTRY DOOR

(FOR PHASE 2)

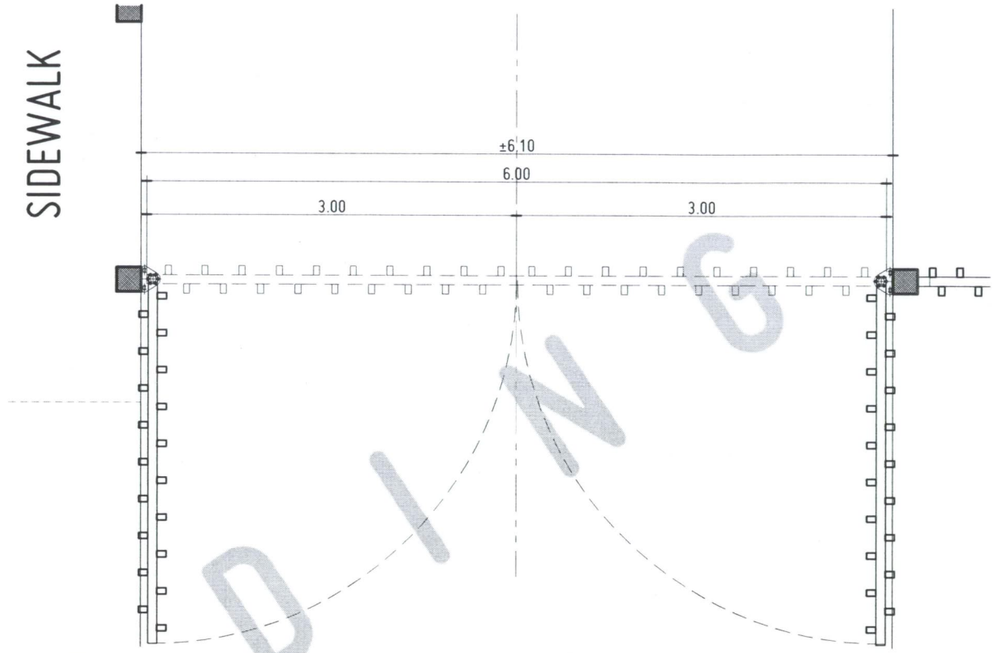




W1

TYPE:	JALOUPLUS WINDOW
SET:	1 SET
DESCRIPTION:	JALOUPLUS WINDOW GLAZING: 6MM THK. GLASS, MACHINE POLISHED, ULTRA-CLEAR; JALOUPLUS FRAME: ANALOK MAIN FRAME: POWDER COATED FINISH ALUMINUM FRAMES
LOCATION:	GUARD HOUSE

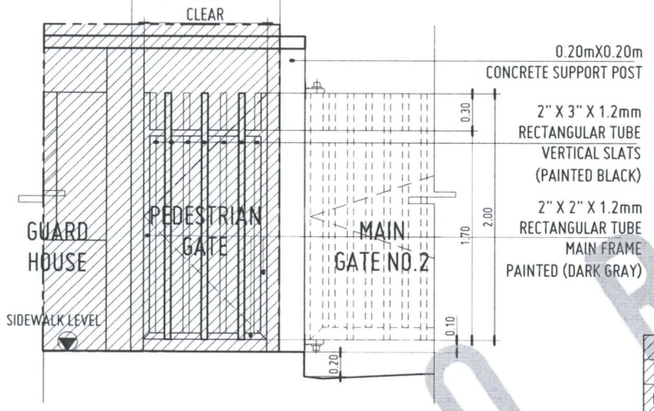
(FOR PHASE 2)



A
10 2

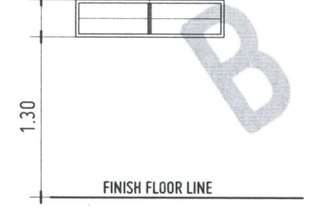
PLAN VIEW ENTRANCE GATE DETAIL GATE 2

SCALE: 1:50 MTS



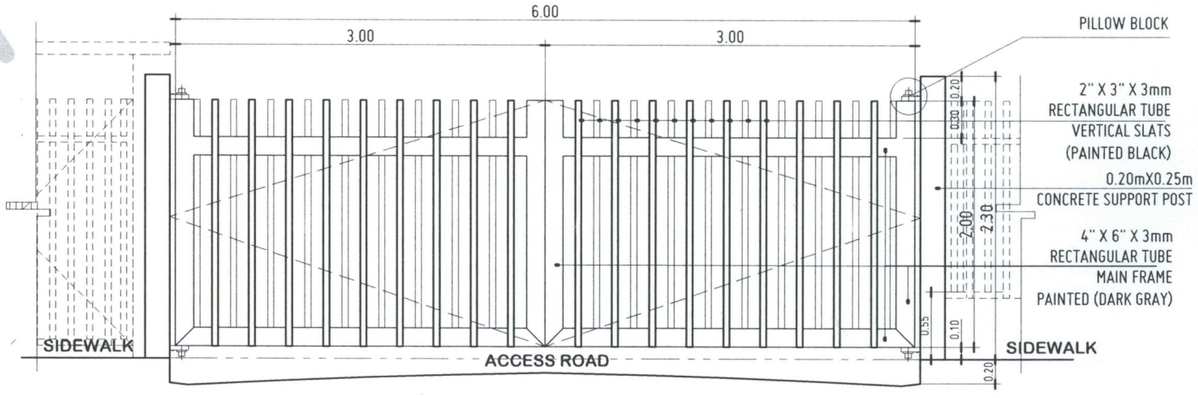
D2

TYPE:	SINGLE LEAF SWING TYPE PEDESTRIAN GATE
SET:	1 SET
DESCRIPTION:	MAIN FRAME: 2" X 2" X 1.2mm RECTANGULAR TUBE PAINTED WITH DARK GREY COLOR VERTICAL SLATS: 2" X 3" X 1.2mm RECTANGULAR TUBE PAINTED WITH BLACK COLOR welded on the main frame with complete accessories and latch system heavy-duty locking mechanism color same as the vertical slats
LOCATION:	PEDESTRIAN ENTRY DOOR



W2

TYPE:	JALOUPLUS WINDOW
SET:	1 SET
DESCRIPTION:	JALOUPLUS WINDOW GLAZING: 6MM THK. GLASS, MACHINE POLISHED, ULTRA-CLEAR; JALOUPLUS FRAME: ANALOK MAIN FRAME: POWDER COATED FINISH ALUMINUM FRAMES
LOCATION:	GUARD HOUSE



A
10 3

ENTRANCE GATE ELEVATION DETAIL GATE 2

SCALE: 1:50 MTS

A
10 1

SCHEDULE OF DOORS & WINDOWS

SCALE: 1:50 MTS

(FOR PHASE 2)

HATCHED AREA FOR 2ND PHASE

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SHEET CONTENTS:
SCHEDULE OF DOORS & WINDOWS
GATE 2 ELEVATION DETAIL
GATE 2 SPOT DETAILS
SPOT DETAIL A
SPOT DETAIL B

DRAWN BY:
DATE DRAWN:
FNT:

A10

FOR BIDDING

GENERAL NOTES

1. GENERAL

1.1 THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, OPENINGS AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.

1.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK.

1.3 THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED RO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.4 THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OR CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL BY THE ROYAL COMMISSION.

1.5 LOADING(S) APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS, THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.

1.6 ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

2. DESIGN CRITERIA

2.1 STANDARDS

2.1.1 THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODE OF STANDARD PRACTICE:

A. NATIONAL STRUCTURAL CODE OF THE PHILIPPINES
B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318RM)
C. INTERNATIONAL BUILDING CODE (IBC)
D. STRUCTURAL ENGINEERING INSTITUTE/AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7)

2.2 MATERIALS

2.2.1 THE FOLLOWING STRUCTURAL MATERIALS AND THEIR CORRESPONDING STRENGTH ARE ADOPTED IN THE DESIGN:

A.	CONCRETE CYLINDER STRENGTH AT 28 DAYS	f'c = 20 MPa
B.	CONCRETE BLINDING	f'c = 20 MPa
C.	REINFORCING BARS 420MPa	Fy =
D.	CONCRETE MASONRY UNITS MPa	f'm = 14
E.	STRUCTURAL STEEL PLATES AND SHAPES - ASTM A38 MPa	FY = 248
F.	ANCHOR BOLTS - ASTM A307 MPa	FY = 228

2.3 DESIGN LOADS

2.3.1 DEAD LOADS: DESIGN GRAVITY DEAD LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A.	CONCRETE	24 KN/M²
B.	50 MM FLOOR TOPPING + FINISH	1.7 KN/M²
C.	100 MM CONCRETE MASONRY UNITS	2.70 KN/M²
D.	150 MM CONCRETE MASONRY UNITS	3.30 KN/M²
E.	ROOF TOPPING + WATERPROOFING + INSULATION	2.50 KN/M²

2.3.2 LIVE LOADS: DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A.	FLOOR LIVE LOAD	2.0 KN/M²
B.	ROOF LIVE LOAD	CONCRETE ROOF 1.0 KN/M² STEEL ROOF .60 KN/M²
C.	CORRIDORS, STAIRS & BALCONIES	5.0 KN/M²

2.3.3 WIND LOAD

2.3.3.1 WIND LOAD ON STRUCTURE SHALL BE COMPUTED AND APPLIED IN CONFORMANCE TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

2.3.3.2 DESIGN WIND PRESSURES

A. BASIC WIND VELOCITY FOR CAGAYAN DE ORO, MISAMIS OR. ARE AS FOLLOWS: 150 KPH

B. SIMPLIFIED DESIGN WIND SHALL BE DESIGNED AS GIVEN IN NSCP FIGURE REFS. 8 & 13.

2.3.3.3 ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (A)

A. ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (A) SHALL BE AS GIVEN IN FIGURE 6-2 OF SEI/ASCE 7.

2.3.3.4 IMPORTANCE FACTOR (I)

A. IMPORTANCE (I) SHALL BE AS DEFINED IN SECTION 6.5.5 OF SEI/ASCE 7.

2.3.3.5. EXPOSURE CATEGORY

A. AN EXPOSURE CATEGORY SHALL BE IN ACCORDANCE WITH SECTION 6.5.6 OF SEI/ASCE 7.

2.3.4 EARTHQUAKE LOADS

2.3.4.1 COMPUTATIONS AND APPLICATION OF SEISMIC LOADS ON THE STRUCTURE SHALL BE IN ACCORDANCE WITH THE EARTHQUAKE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

3. CONCRETE

3.1. GENERAL

3.1.1 STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH ACE 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

3.1.2 CONCRETE SHALL BE READY-MIXED UNLESS OTHERWISE APPROVED.

3.1.3 CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI STANDARD.

3.1.4 REINFORCEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI BUILDING CODE 318/318R-25.

3.2 FOUNDATION

3.2.1 FOUNDATION SHALL BE DESIGNED BASED ON THE GEO-TECHNICAL INVESTIGATION REPORT. THE GENERAL CONTRACTOR SHALL CONDUCT HIS OWN GEO-TECHNICAL TEST TO VERIFY THE DESIGN IS SAFE AND IS ACCORDANCE TO THE GEO-TECHNICAL SOIL TEST RESULT REPORT.

3.2.2 SITE PREPARATION

3.2.2.1 ALL VEGETATION, DEBRIS AND SURFACE SOILS CONTAINING ORGANIC MATERIALS SHALL BE REMOVE FROM THE SITE.
3.2.2.2 THE EXPOSED SUB-GRADE SHALL BE DENSIFIED PRIOR TO PLACING ANY FILL. THE DENSIFICATION SHALL BE ACHIEVED BY COMPACTION, AND SHALL CONTINUE UNTIL THE SOIL DENSITY, 300 MM BELOW THE EXISTING SUB-GRADE, IS AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
3.2.2.3 IF THE COMPACTED SOILS ARE DUE TO CONSTRUCTION ACTIVITIES, THESE SOILS SHALL BE RE-COMPACTED AND RE-TESTED.

3.2.3 GROUND WATER TABLE:

3.2.2.1 THE CONTRACTOR'S ATTENTION IS DRAWN TO GROUNDWATER ELEVATIONS INDICATED OR DISCUSSED IN THE GEO-TECHNICAL REPORT. WELL-POINTS MAYBE NEEDED SO THAT THE GROUND WATER LEVEL IS MAINTAINED AT LEAST 500 MM BELOW THE BOTTOM OF FOOTINGS DURING COMPACTION AND CONSTRUCTION.

3.2.4 THE SIDES OF FOOTINGS SHALL BE FORMED, EXCAVATED SOILS TO FORM THE SIDES OF FOOTINGS ARE NOT ACCEPTABLE.

3.2.5 TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR DETAILS. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.

3.2.6 NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING; EITHER BY TEMPORARY BRACING PERMANENT CONSTRUCTION.

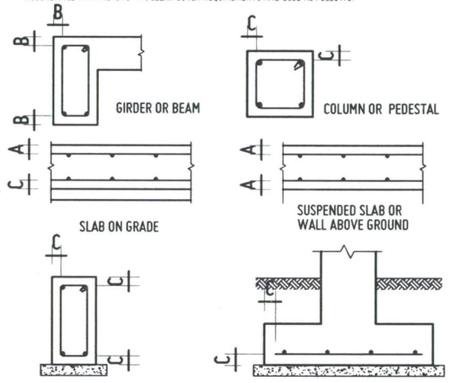
4. CONCRETE CONSTRUCTION

4.1 NO SPLICES SHALL BE PERMITTED IN FLEXURAL MEMBER REINFORCEMENT AT POINTS WHERE CRITICAL BENDING STRESSES OCCURS.

4.2 WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF GIRDER BARS.

4.3 IF SLABS ARE REINFORCED BOTH WAYS (TWO-WAY SPANNING SLABS), THE BARS ALONG THE SHORT SPAN SHALL BE AT THE LOWER LAYER FOR BOTTOM BARS, AND UPPER LAYER FOR TOP BARS.

4.4 UNLESS OTHERWISE NOTED, THE FOLLOWING CLEAR CONCRETE COVER OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-14, CLEAR COVER REQUIREMENTS AND USED AS FOLLOWS:



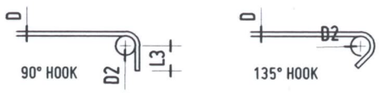
CAST-IN-PLACE CONCRETE		
CLEAR COVER	EXPOSED TO WEATHER OR EARTH	NOT EXPOSED TO WEATHER OR EARTH
A	50	25
B	50	40
C	75	50

PRECAST CONCRETE			
CLEAR COVER	EXPOSED TO EARTH	EXPOSED TO WEATHER	NOT EXPOSED TO WEATHER OR EARTH
WALL PANELS	75	30	20
OTHERS	75	50	30

4.5 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENT:

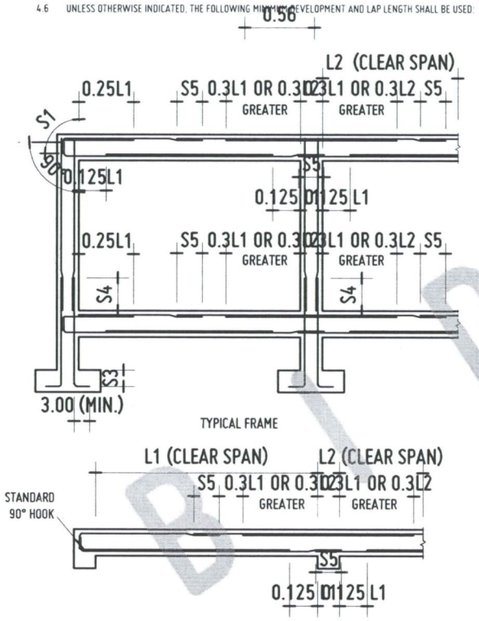


MAIN REINFORCEMENT			
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION	
	D1 (MM)	L1 (MM)	L2 (MM)
Ø8	50	60	95
Ø10	60	60	125
Ø12	70	60	145
Ø14	85	60	170
Ø16	95	65	190
Ø18	110	70	215
Ø20	120	80	240
Ø22	130	90	265



STIRRUPS AND TIES		
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION
	D2 (MM)	L3 (MM)
Ø8	30	50
Ø10	40	60
Ø12	50	70
Ø14	55	85
Ø16	65	95

4.6 UNLESS OTHERWISE INDICATED, THE FOLLOWING MINIMUM DEVELOPMENT AND LAP LENGTH SHALL BE USED:



	MIN. DEVELOPMENT LENGTH			MIN. LAP LENGTH	
BARS (MM)	IN TENSION		IN COM-PRESSION	IN TENSION	IN COM-PRESSION
	S1 (MM)	S2 (MM)	S3 (MM)	S4 (MM)	S5 (MM)
Ø8	420	325	200	420	300
Ø10	525	405	210	525	300
Ø12	630	485	250	630	355
Ø14	735	565	295	735	410
Ø16	840	645	335	840	470
Ø18	945	725	380	945	530
Ø20	1050	805	420	1050	590
Ø22	1440	1110	460	1440	650
Ø25	1640	1260	525	1640	735
Ø28	1833	1410	590	1833	825
Ø30	1965	1510	630	1965	880
Ø32	2095	1615	670	2095	940

NOTES:

A. THE INDICATED MINIMUM DEVELOPMENT AND LAP LENGTH IS FOR CLASS 25 CONCRETE. FOR f'c OTHER THEN 25 MPa, THE VALUES OF S1, S2, S3, AND S4 SHALL BE MULTIPLIED BY $5/\sqrt{f'c}$.

B. WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INDICATED VALUE OF S1 AND S2 SHALL BE MULTIPLIED BY 1.3; HOWEVER WHEN THE AVERAGE SPLITTING TENSILE STRENGTH OF LIGHTWEIGHT AGGREGATE CONCRETE (fct) IS SPECIFIED, S1 AND S2 SHALL BE PERMITTED TO BE MULTIPLIED BY $\sqrt{f'c}/1.8fct$ BUT NOT LESS THAN 1.0.

C. FOR EPOXY COATED BARS, S1 AND S2 SHALL BE MULTIPLIED BY 1.3.

D. LAP AND DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE, SHALL BE THAT FOR INDIVIDUAL BAR INCREASED BY 20% FOR THREE BAR BUNDLE, 33% FOR FOUR BAR BUNDLE.

5. MASONRY

5.1 MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5.

5.2 MASONRY EXPANSION AND CONTROL JOINT REQUIREMENTS SHALL BE AS INDICATED.

5.3 UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND.

5.4 REINFORCING BARS SHALL BE PROVIDED OF THE GIVEN SIZE AND SPACING AS INDICATED, PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES.

5.7 REBAR DOWELS SHALL BE PROVIDED FROM FOUNDATIONS TO MATCH VERTICAL BARS.

5.8 LINTEL BEAM SHALL BE PROVIDED ABOVE ALL WALL OPENINGS.

6. STEEL

6.1 ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16.

7. NOTES FOR DRAWING NOMENCLATURES

7.1 ALL DIMENSIONS ARE IN MILLIMETERES AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.

7.2 INDICATED DIMENSION SHALL PREVAIL AGAINST SCALED DIMENSION.

7.3 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS, SHALL NOTIFY THE IPFDO OF ANY DISCREPANCY.

7.4 ALL REINFORCING BARS SHALL BE READ AS FOLLOWS:



8. ABBREVIATIONS

ACI	-	AMERICAN CONCRETE INSTITUTE
ADD'L	-	ADDITIONAL
AP	-	ALTERNATELY PLACED
AR	-	ALTERNATELY REVERSED
AS	-	ALTERNATELY STAGGERED
ASTM	-	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	-	AMERICAN WELDING SOCIETY
B	-	BOTTOM
BF	-	BACK FACE
BW	-	BOTHWAYS
CL	-	CENTER LINE
CLR	-	CLEAR
CMU	-	CONCRETE MASONRY UNIT
CONC	-	CONCRETE
CONT	-	CONTINUOUS
DIA	-	DIAMETER
DISCONT	-	DISCONTINUOUS
DTL	-	DETAIL
DWG	-	DRAWING
EF	-	EACH FACE
EL	-	EXISTING LEVEL
ELEV	-	ELEVATION
EQ	-	EQUAL
EW	-	EACH WAY
EXT	-	EXTERIOR
FF	-	FRONT FACE
FIN	-	FINISH
GLS	-	GUIDELINE SPECIFICATION
HOR	-	HORIZONTAL
INT	-	INTERIOR
LGTH	-	LENGTH
MIN	-	MINIMUM
NTS	-	NOT TO SCALE
OC	-	ON CENTER
REBAR	-	REINFORCING BAR
REINF	-	REINFORCED, REINFORCEMENT OR REINFORCING
SEC	-	SECTION
SP	-	SPACING
STIRR	-	STIRRUPS
SYMM	-	SYMMETRICAL
T	-	TOP
THK	-	THICK
TYP	-	TYPICAL
UON	-	UNLESS OTHERWISE NOTED
VERT	-	VERTICAL
WWF	-	WELDED WIRE FABRIC

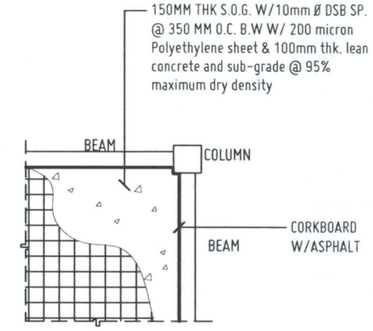
9. WATER PROOFING

9.1 ALL STRUCTURAL CONCRETE IN CONTACT WITH THE GROUND SHALL BE PROTECTED EITHER BY TWO COATS OF BITUMINOUS DAMPROOFING OR BY USE OF WATER PROOF MEMBRANE AS BEEN SHOWN ON THE DETAILED DRAWING.

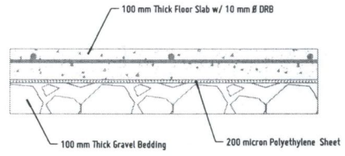
POLYETHYLENE SHEET OF 200 MICRON TO BE USED AS VAPOUR BARRIER UNDER MUD SLAB.

WATER PROOFING TO BE APPLIED ON TO TOP OF MUD CONCRETE AND ABOVE.

WHEN USING WATER PROOF MEMBRANE, IT SHOULD BE AS PER RC GUIDE SPECI, 07110 (TANKING SYSTEM) ROYAL COMMISSION GUIDELINE SPECIFICATION 07130.



SLAB ON GROUND DETAIL



SLAB ON GRADE DETAIL

S01 GENERAL NOTES & SPECIFICATIONS

SCALE NTS

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CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
TELEPHONE # (08822) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696
WEBSITE: www.ustp.edu.ph

ENGR. ERNESTO C. QUIJOTE
STRUCTURAL ENGINEER
PRC NO. 0044940 PTR NO. 11167669A
7 JAN 2027 DATE 28 JANUARY 2026
TIN NO. 152-320-743 PLACE CDO CITY, MIS.OR.

PROJECT: PROPOSED CONSTRUCTION OF GATE 2
LOCATION: USTP CAGAYAN DE ORO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA	ATTY. DIONEL O. ALBINA	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO CAMPUS	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS: GENERAL NOTES & SPECIFICATIONS

DRAWN BY:
DATE DRAWN:
FNT:

S1

SEE SOLAR LIGHT DETAIL

SEE FENCE FOOTING DETAIL

SEE GUARDHOUSE GATE DETAIL

SEE GUARDHOUSE (GH) STRUCTURAL PLAN

SEE RETAINING WALL DETAIL

LOT A=510.74 SQ. M
AMBF: A = 276.76

CREEK

RETAINING WALL

GH

SIDEWALK

RETAINING WALL

PROPOSED ICITES MIXED-USE BUILDING
(COMMERCIAL ZONE)

LOT A=3,140 SQ. M
AMBF: A=2,486.19 SQ. M

6.10
VERIFY ACTUAL ROAD WIDTH ALONG UHC

KEY PLAN
SCALE 1:250 MTS

HATCHED AREA FOR 2ND PHASE

SCHEDULE OF FOOTING (1:50)

FOOTING 1 (F1)	FOOTING 2 (F2)
0.80 x 0.80, t=300mm, 5-16MM TOP & BOTTOM O.C.B.W.	1.25 x 1.00, t=300mm, 5-16MM TOP & BOTTOM O.C.B.W.

SCHEDULE OF COLUMNS

C1	C2
200 x 200, 4-16MM	250 x 200, 4-16MM

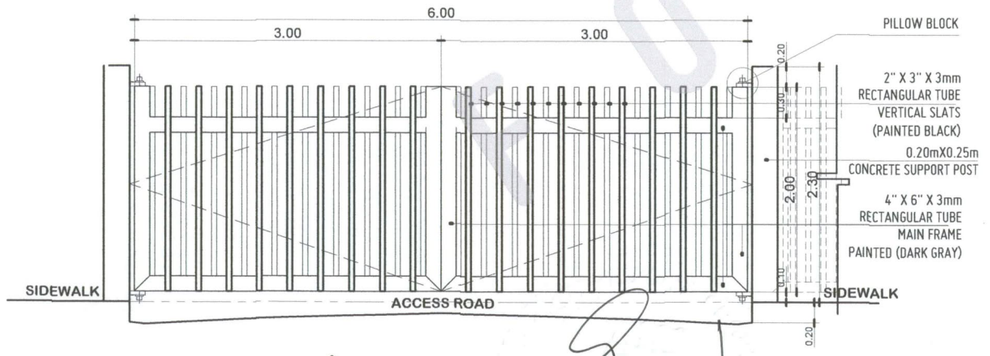
SCHEDULE OF BEAMS

GB1: 200 x 300, 2-16MM, 4-16MM, 4-16MM, 4-16MM, @MIDSPAN, @SUPPORT

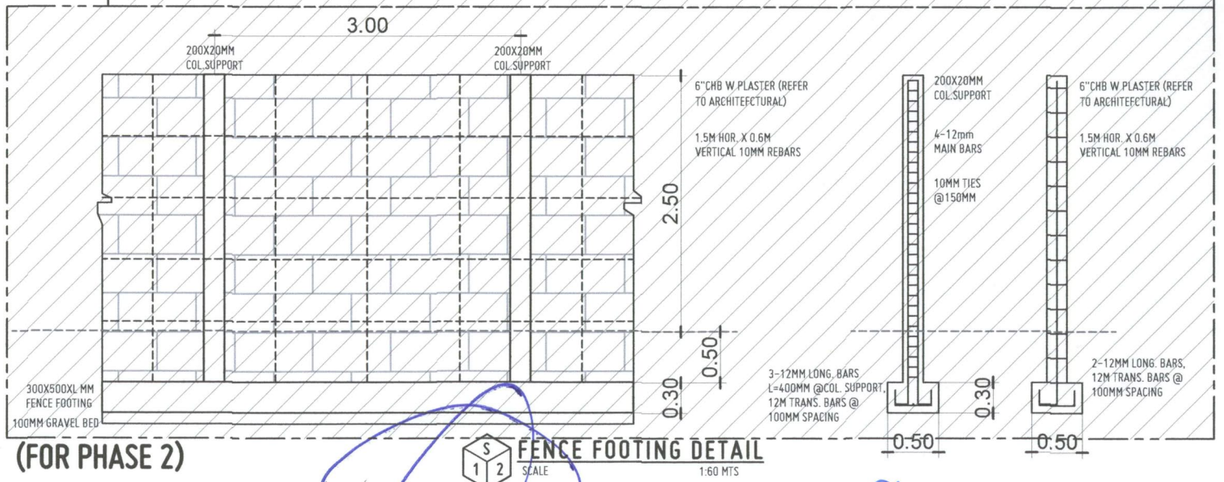
GH STRUCTURAL DETAILS (FOR PHASE 2)
SCALE 1:25 MTS

GH FOUNDATION PLAN (FOR PHASE 2)
SCALE 1:75 MTS

GH ROOF PLAN (FOR PHASE 2)
SCALE 1:75 MTS



GATE STRUCTURAL DETAIL
SCALE 1:60 MTS



FENCE FOOTING DETAIL
SCALE 1:60 MTS

(FOR PHASE 2)

FOR BIDDING

USTP

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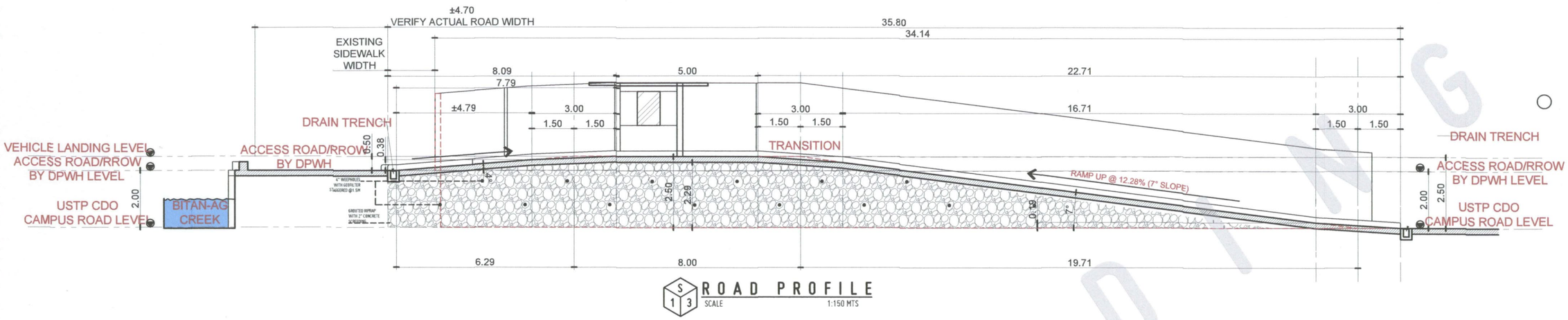
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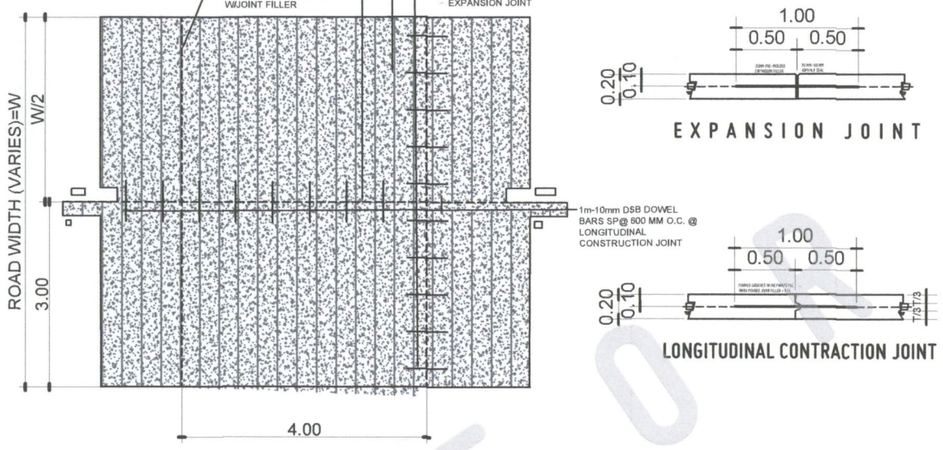
SHEET CONTENTS:
GH STRUCTURAL DETAILS
GH FOUNDATION PLAN
GH ROOF FRAMING PLAN
FENCE FOOTING DETAILS
GATE STRUCTURAL DETAIL

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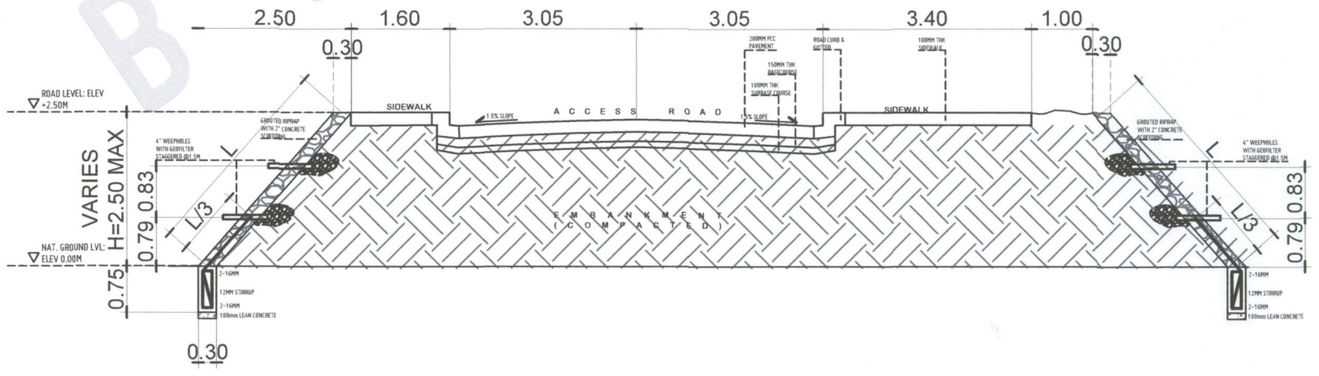
S2



S13 ROAD PROFILE
SCALE 1:150 MTS



S13 PCC PAVEMENT DETAILS
SCALE 1:100 MTS



S13 ROAD SECTION VIEW @ X-X
SCALE 1:100 MTS

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APPROVED BY: DR. AMBROSIO B. CULTURA II — PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
ROAD PROFILE
PCC PAVEMENT DETAILS
ROAD SECTION VIEW @ X-X

DRAWN BY:
DATE DRAWN:
FNT:

S3

FOR BIDDING