TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

CONSTRUCTION DOCUMENT

MAY 17, 2019

Mr. T□rr□ Cro□□□r, M.B.A., M.A., CEO
1901 So□□□ 24□□ A□□□□□
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THE WARREN GROUP
ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
M□ALLEN, TX 78503
9 5 6 . 9 9 4 . 1 9 0 0

ARCHITECTURAL ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS ARE USED

℄	CENTERLINE
ACOUST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ADA	AMERICANS WITH DISABILITIES ACT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNAT(–E,–IVE)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPROXIMAT(–E,–LY)
ARCH	ARCHITECT (–URAL)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
BLDG	BUILDING
BM	BENCH MARK
BOL	BOLLARD
BFF	BELOW FINISH FLOOR
CH	CEILING HEIGHT
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
COLS	COLUMNS
CONC	CONCRETE
COORD	COORDINATE
CPT	CARPET
CJ	CONTROL JOINT
CT	CERAMIC TILE
DEMO	DEMOLISH OR DEMOLITION
DET	DETAIL(–S)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION(–S)
DL	DOCK LEVELER
D.L.P.	DOUBLE HEAD LIGHT POLE
DR	DOOR
DS	DOWN SPOUT
DWG(S)	DRAWING(–S)
(E)	EXISTING
EA	EACH
EEW	EMERGENCY EYE–WASH
EEWS	EMERGENCY EYE–WASH AND SHOWER
EF	EACH FACE OR EXHAUST FAN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRIC(–AL)
EMERG	EMERGENCY
EOD	EDGE OF DOCK
EQ	EQUAL(–LY)
EQUIP	EQUIPMENT
EXT	EXTERIOR
EW	EACH WAY
EP	ELECTRICAL POWER & METER CAN
(F)	FIXTURE
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH, FINISH FLOOR
FH	FIRE HYDRANT
FLR	FLOOR
FRT	FIRE–RETARDANT TREATED
FTG	FOOTING
FURN	FURNITURE
GA	GAUGE
GDL	GROUND LEVEL
GYP	GYPSUM
HB	HOSE BIB
HC	(HANDICAP) ACCESSIBLE
HGT,HT	HEIGHT
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IN	INCH(–ES)
JB,J–BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MTL	METAL
MIN	MINIMUM
N	NORTH
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NOP	KNOCK–OUT PANEL
OC	ON CENTER
OTS	OPEN TO STRUCTURE
PERF	PERFORAT(–E, –ED, –ES, –ATION)
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PROJ	PROJECT(–TION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.J.	PANEL JOINT
RAD	RADIUS
RE:	REFER, REFERENCE
REQ	REQUIRED
RL	RISER LINE (STAIRS)
RR	RESTROOM
SCH	SCHEDULE
SHT	SHEET
S.L.P.	SINGLE HEAD LIGHT POLE
SPECS	SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURE
S/W	SIDEWALK
SYM	SYMMETRICAL
TEMP	TEMPORARY
T.C.	TRENCH COVER
VCT	VINYL COMPOSTION TILE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER

SYMBOLS

ANNOTATION

BUILDING ELEVATION REFERENCE

BUILDING SECTION REFERENCE

WALL SECTION REFERENCE

DETAIL REFERENCE

PLAN NORTH

NORTH ARROW

INTERIOR ELEVATION REFERENCE (A, B, C, D)

STRUCTURAL GRID

+0" ELEVATION OF ARCHITECTURAL ELEMENT

ROOM — ROOM/SPACE IDENTIFIER, ROOM NAME, ROOM NUMBER

TITLE / SCALE — TITLE MARK, REFERENCE NUMBER

BREAK MARK

MATCH LINE SEE SHEET A-XXX — REFERENCE TO SHEET WHERE WORK THIS SIDE OF MATCHLINE IS DRAWN

PARTITION TYPE

WINDOW TYPE REFERENCE

DOOR TYPE REFERENCE

DOOR REFERENCE NUMBER

ACCESSORY KEY

EQUIPMENT KEY

REVISION NUMBER

CEILING HEIGHT MARKER

ELECTRICAL

2'x4' RECESSED LED FIXTURE

2'x4' RECESSED LED FIXTURE W/ EMERGENCY BALLAST

2'x2' RECESSED LED FIXTURE

1'x4' RECESSED LED FIXTURE W/ EMERGENCY BALLAST

LED RECESSED WALL WASHER

2 LAMP SURFACE MOUNTED LED FIXTURE

2 LAMP SURFACE MOUNTED LED FIXTURE W/ EMERGENCY BALLAST

ERL — RECESSED, EXTERIOR GRADE CAN LIGHTING

EMERGENCY LIGHT (BATTERY POWERED)

T — TRANSFORMER

EMERGENCY EXIT SIGN

L.P. — LIGHT POLE WITH A 36" HIGH CONCRETE BASE

PLUMBING – CIVIL

FH — FIRE HYDRANTS

IRR — IRRIGATION PIPE

NOTE: NOT ALL SYMBOLS ARE USED. SEE OTHER SPECIFIC SYMBOL LEGENDS ON EACH DRAWING WHERE OCCURS.

GENERAL NOTES

THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AND A201 LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, ARE HEREBY MADE PART OF CONTRACT DOCUMENTS TO THE SAME EXTENT AS IF BOUND HEREIN.

THE CONTRACTOR SHALL PROVIDE ADEQUATE CONTRACTOR'S LIABILITY AND "ALL RISK" INSURANCE TO COVER 100% OF THE COST OF THE PROJECT. PROVIDE WORKMEN'S COMPENSATION AS REQUIRED BY LAW AND PROVIDE OTHER INSURANCE REQUIRED BY GENERAL CONDITIONS, TROPICAL TEXAS, LAW OR CODE.

ALL SUBCONTRACTORS MUST BE PRE–APPROVED BY TROPICAL TEXAS BEHAVIORAL HEALTH OWNER REPRESENTATIVES AND THE WARREN GROUP ARCHITECTS INC.

GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE, PRIOR TO CONSTRUCTION, UNIT PRICES FOR ALL WORK SHOWN. THESE PRICES SHALL BE VALID FOR THE DURATION OF THE PROJECT AND USED FOR ALL SUBMISSIONS REGARDING ADDITIONS OR DELETIONS TO SCOPE OF WORK.

UNLESS OTHERWISE STIPULATED, THE GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TAXES, PERMITS, WATER, TOOLS, EQUIPMENT, LIGHT, POWER, TRANSPORTATION AND OTHER FACILITIES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK.

THE CONTRACTOR AND HIS SUB–CONTRACTORS SHALL KEEP WORK AREA IN A CLEAN AND ORDERLY MANNER, REMOVING DEBRIS ON A ROUTINE BASIS.

CONTRACTOR REVIEW:

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSION FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING AND PROCEEDING WITH CONSTRUCTION. FAILURE TO REPORT A CONFLICT IN THE CONTRACT DOCUMENTS SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER.

CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.

PROJECT TEAM

OWNER:

Tropical Texas Behavioral Health
Contact: Mr. Terry Crocker,M.B.A.,M.A.,CEO
Ms. Beatriz Trejo, CFO
1901 South 24th Avenue
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PO Drawer 1108 Edinburg, Texas 78540–1108

ARCHITECT:

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CONSULTANTS:

CIVIL ENGINEER:

Perez Consulting Engineers, LLC.
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STRUCTURAL ENGINEER:

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MEP ENGINEER:

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MATERIALS

- CAST IN PLACE CONCRETE
- PRECAST CONCRETE
- STEEL
- METAL STUDS
- GLASS
- CONCRETE MASONRY UNITS
- LANDSCAPE AREA
- WOOD BLOCKING
- ROUGH WOOD
- FINISH WOOD
- PLYWOOD
- RIGID INSULATION
- BATT INSULATION

CODE CHECK

GENERAL - PROJECT IDENTIFICATION

LIST OF APPLICABLE CODES (TITLES & EDITIONS)
–TEXAS ACCESSIBILITY STANDARDS (TAS), 2012 EDITION.
–INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION.
–INTERNATIONAL ENERGY CONSERVATION CODE(IECC), 2015 EDITION.
–INTERNATIONAL FIRE CODE (IFC), 2012 EDITION.
–NFPA 101, 2012 EDITION

LIST OF APPLICABLE ORDINANCES AND JURISDICTIONS
CITY OF BROWNSVILLE CODE OF ORDINANCES, CURRENT EDITION.

PROJECT DESCRIPTION

APPROXIMATE SITE AREA:	2.88 ACRES
TOTAL EXISTING BUILDING GROSS AREA:	36,045 S.F.
TOTAL RENOVATED AREA:	24,800 S.F.

ZONING / ORDINANCE RE□UIREMENTS

PARKING REQUIRED :	178 SPACES
PARKING PROVIDED :	169 SPACES
LANDSCAPE:	
REQUIRED BY THE CITY ORDINANCE FOR COMMERCIAL DISTRICT	
TOTAL LANDSCAPING AREA REQUIRED:	12,066.12 S.F. 10% MIN. OF SITE
TOTAL LANDSCAPING AREA PROVIDED:	14,499.76 S.F. – 12%

ACCESSIBILITY DESIGN CRITERIA (TAS-ADA)

EXTERIOR ACCESSIBLE PARKING SPACES ADA– TABLE 208.2	
REQUIRED	6 ACC SPACES
PROVIDED	6 ACC SPACES

BUILDING DESIGN CRITERIA - 2012 IBC CODE

USE GROUP (OCCUPANCY) CLASSIFICATION(S)

MAIN:	BUSINESS (B)
TYPE OF CONSTRUCTION	TYPE II–B UNPROTECTED, SPRINKLERED ONE STORY

OCCUPANCY LOADS: (PER TABLE 1004.1.2)

BUSINESS (B)	325 OCCUPANCY LOAD
ASSEMBLY (A)	230 OCCUPANCY LOAD

PLUMBING FIXTURE REQUIREMENTS:

WATER CLOSETS:	REQUIRED:	PROVIDED:
	11	15
TOTAL	11	15+5 URINALS

LAVATORIES		
	8	14
TOTAL	8	14

NOTES:

1. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE CITY OF BROWNSVILLE FIRE DEPARTMENT BEFORE THE BUILDING IS OCCUPIED.
2. EXIT DOORS TO BE OPERABLE FROM INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.

VICINITY MAP

TROPICAL TEXAS BEHAVIORAL HEALTH- AMBULATORY SERVICE FACILITY
871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

NORTH

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ALL CONSTRUCTION SHALL COMPLY WITH AMERICAN'S WITH DISABILITIES ACT, PUBLIC LAW 101–336 AND TAS COMPLIANT.

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING FOR THE WORK IN QUESTION OR RELATED WORK.

INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS

CIVIL DRAWINGS

STRUCTURAL DRAWINGS

M.E.P. DRAWINGS

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McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION | DATE | APPROVED BY | DESCRIPTION

SEAL

REGISTERED ARCHITECT — LAURA N. WARREN — 18378 — STATE OF TEXAS

EXP 10–31–19

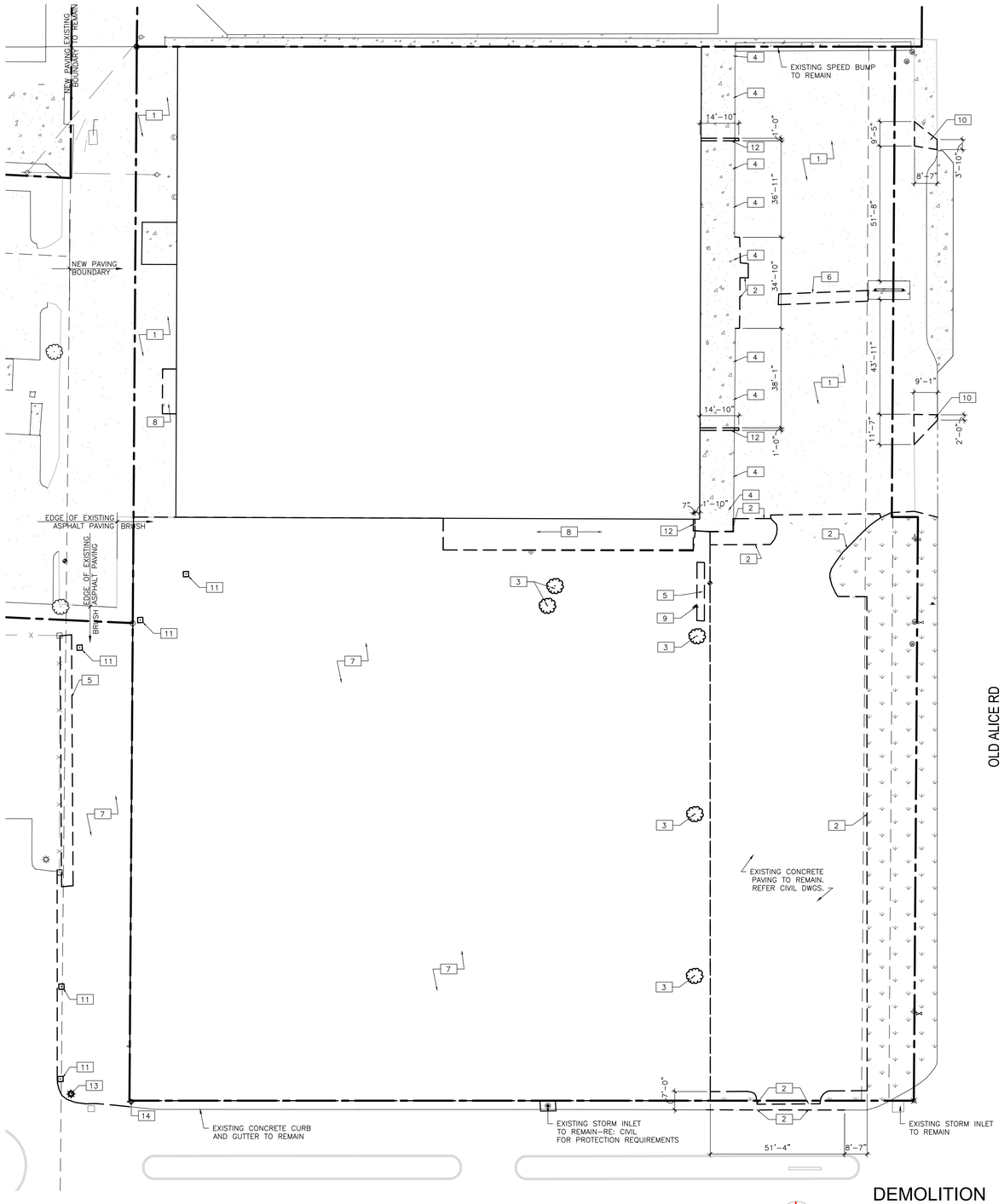
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

G0.01
GENERAL NOTES, ABBREVIATIONS & SYMBOLS



DEMOLITION SITE PLAN

SCALE: 1"=20'-0"

SHEET NOTES

1. REFER CIVIL DRAWINGS AND SPECIFICATIONS FOR CAPPING AND PROTECTION OF EXISTING ITEMS TO REMAIN.
2. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO BE RECONNECTED.
3. REFER MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SCOPE ON ALL HVAC DUCTWORK AND EQUIPMENT.
4. REFER DEMOLITION FLOOR PLAN AND DEMOLITION EXTERIOR ELEVATIONS FOR OTHER DEMOLITION SCOPE.

DEMOLITION NOTES

1. COMPLY WITH ALL APPLICABLE CODES AND OSHA REGULATIONS.
2. THE DEMOLITION OR REMOVAL NOTES DO NOT INDICATE EVERY ITEM WHICH IS REQUIRED TO BE REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION IN EACH AREA. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND OBSERVED CONDITIONS IN THE FIELD.
3. DEMOLITION WORK INCLUDES SELECTIVE REMOVAL OF MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS EQUIPMENT AND SYSTEMS, AND ASSOCIATED ITEMS AS INDICATED AND AS NECESSARY TO ACCOMMODATE THE WORK OF THE CONTRACT. FOR UTILITIES TO BE DEMOLISHED, REMOVE SAME BACK TO THE POINT OF CONNECTION AND TERMINATE UNLESS NOTED OTHERWISE. SEE MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS DRAWINGS FOR ADDITIONAL REQUIREMENTS AND DEMOLITION SCOPE OF WORK.
4. REMOVE ALL EQUIPMENT MOUNTED ON PARTITIONS INDICATED TO BE DEMOLISHED, INCLUDING SERVICES (E.G. ELECTRICAL COMPONENTS) MOUNTED ON OR ROUTED WITHIN DEMOLISHED PARTITIONS.
5. PATCH FLOORS, WALLS, COLUMNS, COLUMN ENCLOSURES, AND CEILINGS WHERE IMPACTED BY DEMOLITION, WITH FINISHES TO MATCH ADJACENT EXISTING. PATCH AND REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION. MAINTAIN FIRE RATINGS.
6. GENERAL CONTRACTOR TO COORDINATE WITH OWNER, AND/OR BUILDING MANAGEMENT, PRIOR TO TURNING OFF ANY UTILITIES FOR CONNECTION OR EXPANSION OF SAID UTILITIES WITHIN THE FINISH–OUT AREA.
7. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE REMOVED BY OWNER SUCH AS MOVABLE EQUIPMENT.
8. GENERAL CONTRACTOR TO PROVIDE DUST BARRIERS AT ENTRANCES DURING CONSTRUCTION PERIOD.
9. DURING CONSTRUCTION PHASE, CARE MUST BE TAKEN TO NOT DAMAGE ANY EXISTING ITEMS TO REMAIN.
10. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO BE RECONNECTED.
11. G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING PROTECTION AGAINST INCLEMENT WEATHER FOR AREAS WHERE EXTERIOR ITEMS ARE TO BE REMOVED.

DEMOLITION SCHEDULE

KEY	DESCRIPTION
1	REMOVE LOOSE ASPHALT TOPPING FROM EXISTING PAVED AREAS. PREPARE SURFACE TO RECEIVE NEW COAT. REFER CIVIL FOR NEW PAVING AND ADDITIONAL INSTRUCTIONS.
2	CONCRETE CURB AND GUTTER TO BE REMOVED. REFER SITE PLAN AND CIVIL DRAWINGS FOR NEW PARKING CONFIGURATION.
3	EXISTING TREES AND ROOT SYSTEM TO BE REMOVED.
4	EXISTING MASONRY PLANTERS TO BE REMOVED. G.C. TO PROTECT MASONRY COLUMNS TO REMAIN. REFER EXTERIOR ELEVATION FOR NEW EXTERIOR FINISHES.
5	EXISTING CONCRETE SIDEWALK TO BE REMOVED. REFER SITE PLAN FOR NEW SIDEWALK TO BE PROVIDED AT WEST SIDE OF ALLEYWAY. REFER CIVIL DRAWINGS FOR PAVEMENT AT ALLEY.
6	EXISTING SPEED BUMP TO BE REMOVED. REFER CIVIL DWGS..
7	G.C. TO CLEAR/REMOVE ALL BRUSH/GRASS. REFER CIVIL DRAWINGS FOR PAVING, SELECT FILL AND GRADING.
8	EXISTING PORTION OF CANOPY AND CONCRETE SLAB TO BE REMOVED. G.C. TO PROTECT TILT–UP WALL OF BUILDING TO REMAIN. REFER STRUCTURAL FOR BUILDING LIFTING, NEW EXTERIOR ELEVATIONS AND ROOF PLAN FOR NEW CANOPY CONFIGURATION AT THIS AREA.
9	EXISTING SIGN AND POLE TO BE REMOVED.
10	PORTION OF ASPHALT TO BE REMOVED TO ALLOW FOR CONSTRUCTION OF NEW SIDEWALK.
11	EXISTING FENCE POST TO BE REMOVED.
12	PORTION OF SIDEWALK TO BE REMOVED TO PREPARE FOR TRENCH DRAIN. RE: CIVIL DWGS.
13	EXISTING LIGHT POLE TO BE REMOVED. RE: ELECTRICAL DWGS.
14	EXISTING UTILITY POLE TO BE REMOVED AND RELOCATED. RE: ELECTRICAL DWGS.

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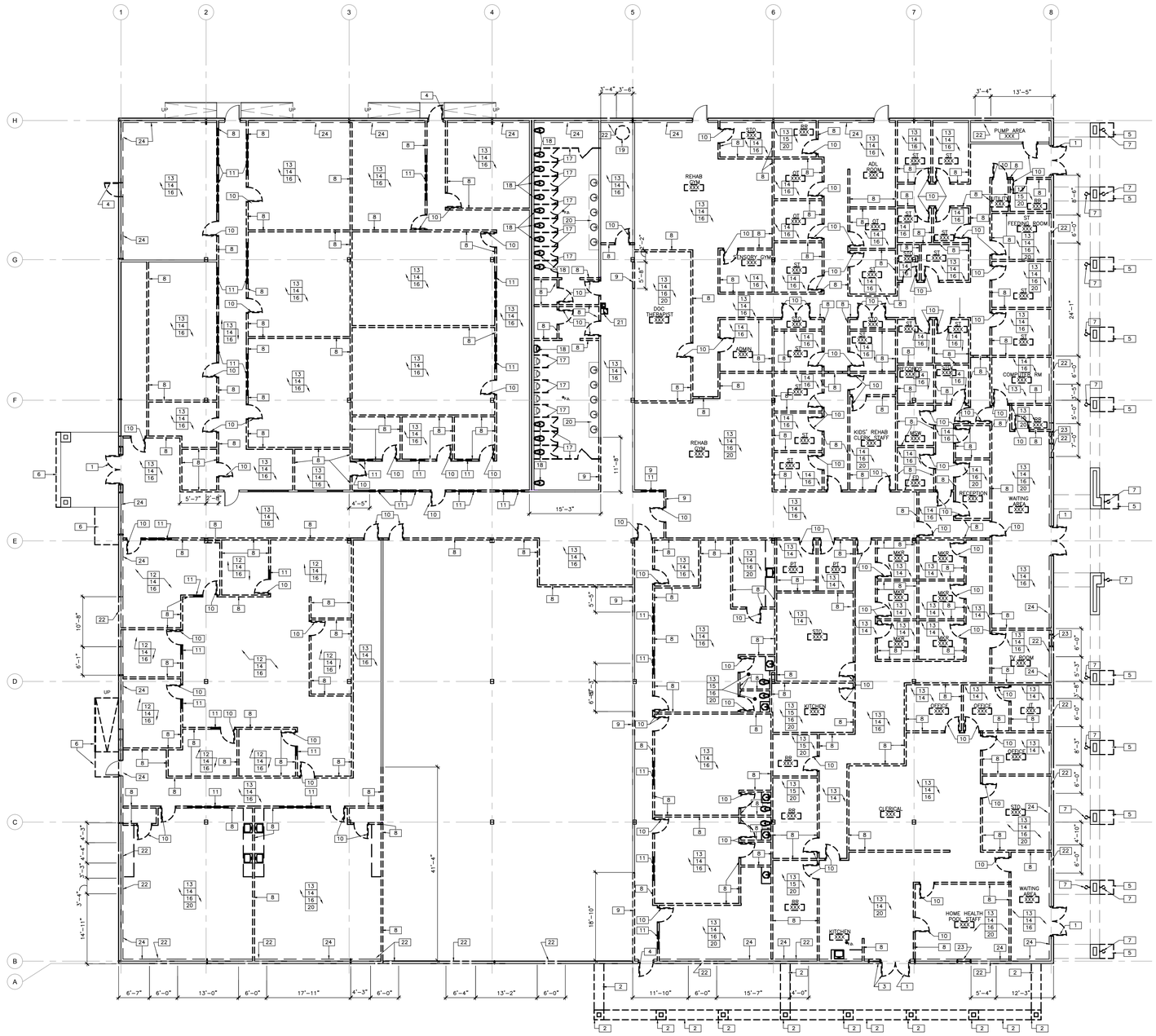
AD1.01
DEMOLITION SITE PLAN



NORTH

1 DEMOLITION FLOOR PLAN

SCALE: 3/32"=1'-0"

SHEET NOTES

1. REFER MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SCOPE ON ALL HVAC DUCTWORK AND EQUIPMENT.

SHEET LEGEND

EXISTING TO REMAIN

EXISTING TO BE REMOVED

DEMOLITION NOTES

1. COMPLY WITH ALL APPLICABLE CODES AND OSHA REGULATIONS.
2. THE DEMOLITION OR REMOVAL NOTES DO NOT INDICATE EVERY ITEM WHICH IS REQUIRED TO BE REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION IN EACH AREA. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND OBSERVED CONDITIONS IN THE FIELD.
3. DEMOLITION WORK INCLUDES SELECTIVE REMOVAL OF MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS EQUIPMENT AND SYSTEMS, AND ASSOCIATED ITEMS AS INDICATED AND AS NECESSARY TO ACCOMMODATE THE WORK OF THE CONTRACT. FOR UTILITIES TO BE DEMOLISHED, REMOVE SAME BACK TO THE POINT OF CONNECTION AND TERMINATE UNLESS NOTED OTHERWISE. SEE MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS DRAWINGS FOR ADDITIONAL REQUIREMENTS AND DEMOLITION SCOPE OF WORK.
4. REMOVE ALL EQUIPMENT MOUNTED ON PARTITIONS INDICATED TO BE DEMOLISHED, INCLUDING SERVICES (E.G. ELECTRICAL COMPONENTS) MOUNTED ON OR ROUTED WITHIN DEMOLISHED PARTITIONS.
5. PATCH FLOORS, WALLS, COLUMNS, COLUMN ENCLOSURES, AND CEILINGS WHERE IMPACTED BY DEMOLITION, WITH FINISHES TO MATCH ADJACENT EXISTING. PATCH AND REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION. MAINTAIN FIRE RATINGS.
6. GENERAL CONTRACTOR TO COORDINATE WITH OWNER, AND/OR BUILDING MANAGEMENT, PRIOR TO TURNING OFF ANY UTILITIES FOR CONNECTION OR EXPANSION OF SAID UTILITIES WITHIN THE FINISH-OUT AREA.
7. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE REMOVED BY OWNER SUCH AS MOVABLE EQUIPMENT.
8. GENERAL CONTRACTOR TO PROVIDE DUST BARRIERS AT ENTRANCES DURING CONSTRUCTION PERIOD.
9. DURING CONSTRUCTION PHASE, CARE MUST BE TAKEN TO NOT DAMAGE ANY EXISTING ITEMS TO REMAIN.
10. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO BE RECONNECTED.
11. G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING PROTECTION AGAINST INCLEMENT WEATHER FOR AREAS WHERE EXTERIOR ITEMS ARE TO BE REMOVED.

DEMOLITION SCHEDULE

KEY	DESCRIPTION
1	EXTERIOR ALUMINUM DOOR AND STOREFRONT SYSTEM TO BE REMOVED. PROTECT OPENING FROM EXTERIOR ENVIRONMENT.
2	EXTERIOR MASONRY CANOPY STRUCTURE AND COLUMNS TO BE REMOVED. G.C. TO PROTECT TILT-UP WALL OF BUILDING TO REMAIN. RE: STRUCTURAL.
3	EXTERIOR STOREFRONT TO BE REMOVED. PATCH AND REPAIR WALL OPENING TO MATCH AND FLUSH ADJACENT WALL SURFACES.
4	EXTERIOR DOOR TO BE REMOVED. PATCH AND REPAIR WALL OPENING TO MATCH AND FLUSH ADJACENT WALL SURFACES.
5	EXTERIOR PLANTER BOX TO BE REMOVED. PATCH AND REPAIR ASPHALT TO MATCH FLUSH ADJACENT PARKING AREA.
6	EXTERIOR RAMP AND ENTRANCE SLAB TO BE REMOVED.
7	EXTERIOR WALL SCONES TO BE REMOVED. REFER TO ELECTRICAL DWGS. FOR MORE INFORMATION ON THE RELOCATION OF ELECTRICAL POWER FOR NEW LIGHTING LOCATIONS.
8	INTERIOR WALL TO BE REMOVED GENERAL CONTRACTOR TO REMOVE AND CAP ALL ELECTRICAL AND PLUMBING LINES.
9	PORTION OF INTERIOR WALL TO BE REMOVED. PATCH AND REPAIR TO RECEIVE NEW FINISHES.
10	INTERIOR DOOR AND FRAME TO BE REMOVED.
11	INTERIOR WINDOW & FRAME TO BE REMOVED.
12	CARPET AND CARPET ADHESIVE TO BE REMOVED FROM THE CONCRETE FLOOR AND PREPARE TO RECEIVE NEW FINISH.
13	PORCELAIN/CERAMIC TILES TO BE REMOVED. G.C. TO LEVEL AND REPAIR DAMAGE FLOOR AS NEEDED TO RECEIVE NEW FINISHES.
14	EXISTING CEILING GRID AND ACOUSTICAL CEILING TILE TO BE REMOVED.
15	EXISTING GYPSUM BOARD CEILING TO BE REMOVED.
16	CEILING LIGHT FIXTURES AND ELECTRICAL WIRE TO BE REMOVED. CAP UTILITIES AS NEEDED. REFER ELECTRICAL.
17	RESTROOM PARTITIONS AND ACCESSORIES TO BE REMOVED.
18	WATER CLOSET OR URINAL TO BE REMOVED. CAP PLUMBING LINES AS NEEDED AND PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISHES. RE: PLUMBING DWGS.
19	WATER HEATER TO BE REMOVED. CAP ALL PLUMBING LINES AND ELECTRICAL LINES AS NEEDED TO RECEIVE NEW FINISHES. RE: PLUMBING DRAWINGS FOR LOCATION AND TYPE OF NEW WATER HEATER.
20	RESTROOM PARTITIONS, FIXTURES AND ACCESSORIES AND MILLWORK TO BE REMOVED. CAP ALL PLUMBING LINES AND ELECTRICAL LINES AS NEEDED AND PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISHES. RE: PLUMBING DWGS.
21	EXISTING WATER FOUNTAIN TO BE REMOVED. RE: PLUMBING DWGS.
22	PORTION OF THE EXTERIOR WALL TO BE REMOVED TO RECEIVE NEW DOOR OR WINDOW.
23	EXTERIOR WINDOW TO BE REMOVED.
24	EXISTING WALL FURRING AND INSULATION TO BE REMOVED.

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SEAL

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AD1.11

DEMOLITION FLOOR PLAN

SHEET NOTES

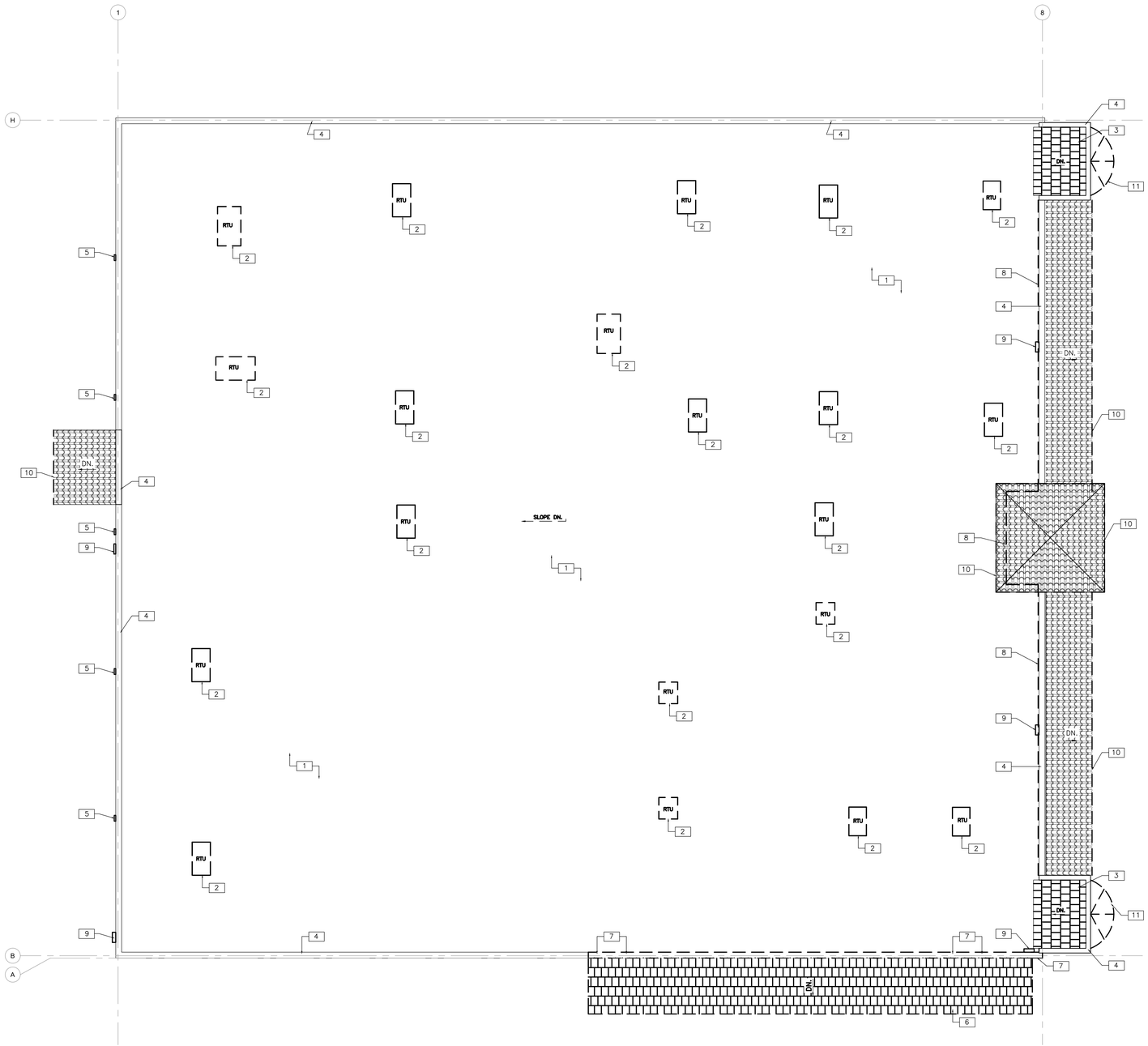
1. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO BE RECONNECTED.
2. REFER MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SCOPE ON ALL HVAC DUCTWORK AND EQUIPMENT.

SHEET LEGEND

RTU — ROOF TOP UNITS

DEMOLITION SCHEDULE

KEY	DESCRIPTION
1	EXISTING SINGLE-PLY ROOF, INSULATION AND METAL DECK TO BE REMOVED. G.C. TO PROVIDE PROTECTION TO INTERIOR AREAS TO REMAIN FROM INCLEMENT WEATHER. REFER TO STRUCTURAL DRAWINGS FOR NEW METAL DECK AND ADDED STRUCTURAL SUPPORT FOR NEW MECHANICAL EQUIPMENT. REFER MECHANICAL FOR NEW ROOFTOP EQUIPMENT LOCATIONS.
2	ROOFTOP MOUNTED EQUIPMENT TO BE REMOVED. G.C. TO REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDED DEMOLITION SCOPE AND CAPING OF UTILITIES AND RECONNECTION FOR NEW SCOPE.
3	ASPHALT SHINGLE ROOFING TO BE REMOVED AND REPLACED WITH NEW TPO ROOF AND R-30 INSULATION-REFER ROOF PLAN.
4	EXISTING COPING MATERIAL TO BE REMOVED. CLEAN TOP OF PARAPET AND PREPARE TO RECEIVE NEW ROOFING AND COPING MATERIALS.
5	GUTTER AND DOWNSPOUTS TO BE REMOVED. REFER NEW ROOF PLAN AND PLUMBING DRAWINGS FOR ADDED ROOF DRAINS.
6	MASONRY AND CLAY TILE/WOOD STRUCTURE TO BE REMOVED/REPLACED. REFER STRUCTURAL DRAWINGS, FLOOR PLANS, ELEVATIONS, AND SECTIONS FOR NEW COLONNADE ADDITION.
7	PORTION OF WOOD FRAMED PARAPET (PART OF COLONNADE TO BE DEMOLISHED) TO BE REMOVED. REFER STRUCTURAL AND ARCHITECTURAL PLANS FOR NEW PARAPET AND COLONNADE ADDITION.
8	WOOD PANELING AT PARAPET TO BE REPLACED WITH 5/8" DENSE GLASS SHEATHING AND TPO MATERIAL. REFER ROOF PLAN AND DETAILS.
9	ROOF MOUNTED – PARAPET MOUNTED FLOOD LIGHTS TO BE REMOVED. ELECTRICAL DWGS.
10	EXISTING ROOF FASCIA TO BE REPLACED. REFER ELEVATIONS AND DETAILS.
11	STRETCHED CANVAS CANOPIES AND IRON FRAME TO BE REMOVED. PATCH AND REPAIR WALL SURFACES TO MATCH AND FLUSH WITH ADJACENT SURFACES.



1 DEMOLITION ROOF PLAN
SCALE: 3/32"=1'-0"

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION	DATE	APPROVED BY	DESCRIPTION

SEAL

REGISTERED ARCHITECT — 18375 — STATE OF TEXAS

EXP 10-31-19

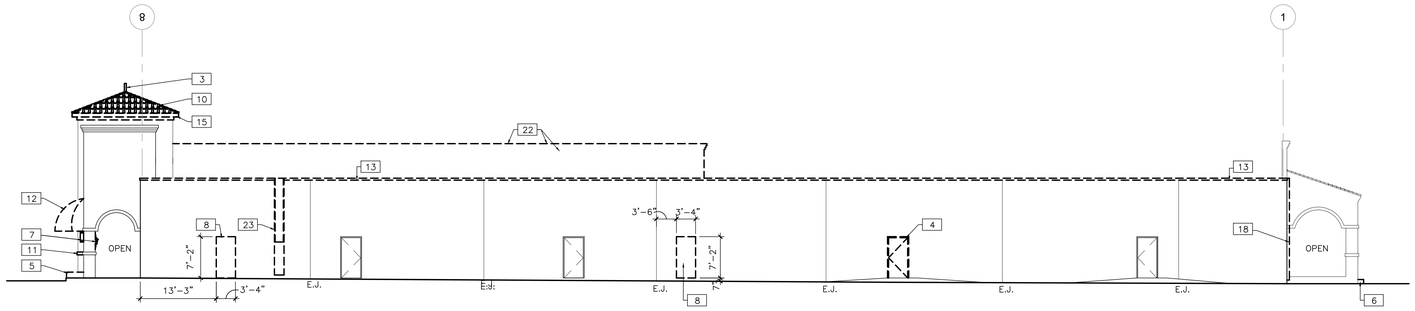
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

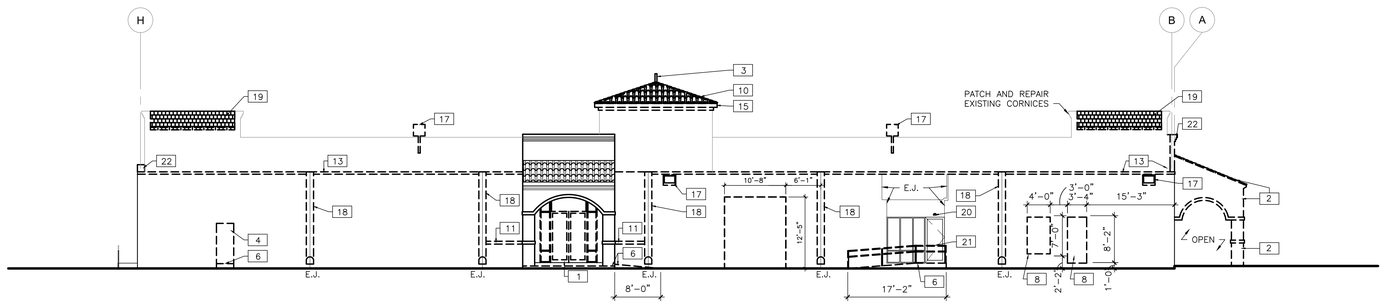
871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

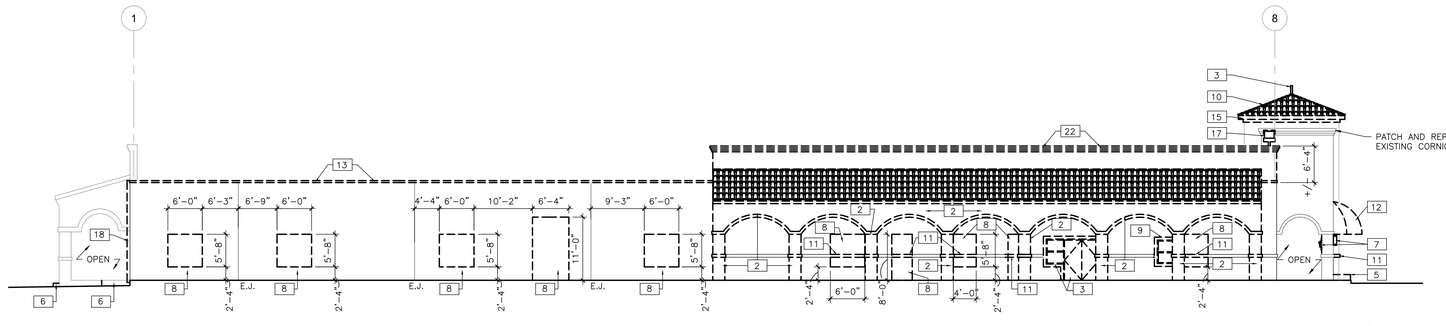
AD1.31
DEMOLITION ROOF PLAN



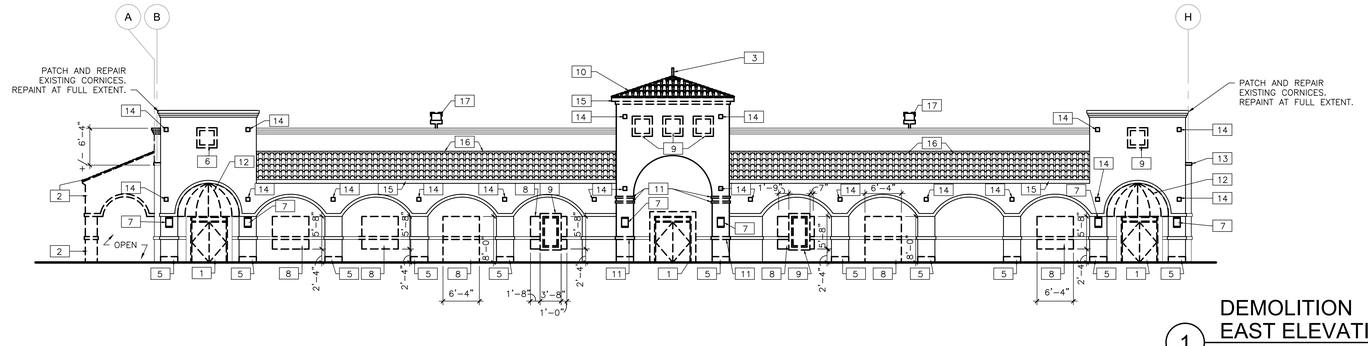
4 DEMOLITION NORTH ELEVATION
SCALE: 3/32"=1-0"



3 DEMOLITION WEST ELEVATION
SCALE: 3/32"=1-0"



2 DEMOLITION SOUTH ELEVATION
SCALE: 3/32"=1-0"



1 DEMOLITION EAST ELEVATION
SCALE: 3/32"=1-0"

SHEET LEGEND

E.J.	EXISTING EXPANSION JOINT. GENERAL CONTRACTOR TO REMOVE AND REPLACE BACKER ROD AND EXPANSIVE CAULK TO FULL HEIGHT OF EXISTING PANEL JOINT AND ADDED PARAPET WALL.
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED

DEMOLITION NOTES

1. THE DEMOLITION OR REMOVAL NOTES DO NOT INDICATE EVERY ITEM WHICH IS REQUIRED TO BE REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION IN EACH AREA. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND OBSERVED CONDITIONS IN THE FIELD.
2. DEMOLITION WORK INCLUDES SELECTIVE REMOVAL OF MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS EQUIPMENT AND SYSTEMS, AND ASSOCIATED ITEMS AS INDICATED AND AS NECESSARY TO ACCOMMODATE THE WORK OF THE CONTRACT. FOR UTILITIES TO BE DEMOLISHED, REMOVE SAME BACK TO THE POINT OF CONNECTION AND TERMINATE UNLESS NOTED OTHERWISE. SEE MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS DRAWINGS FOR ADDITIONAL REQUIREMENTS AND DEMOLITION SCOPE OF WORK.
3. GENERAL CONTRACTOR TO COORDINATE WITH OWNER, AND/OR BUILDING MANAGEMENT, PRIOR TO TURNING OFF ANY UTILITIES FOR CONNECTION OR EXPANSION OF SAID UTILITIES WITHIN THE FINISH-OUT AREA.
4. DURING CONSTRUCTION PHASE, CARE MUST BE TAKEN TO NOT DAMAGE ANY EXISTING ITEMS TO REMAIN.
5. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO BE RECONNECTED.
6. G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING PROTECTION AGAINST INCLEMENT WEATHER FOR AREAS WHERE EXTERIOR ITEMS ARE TO BE REMOVED.
7. G.C. TO PRESSURE WASH ALL EXTERIOR WALLS AND SOFFITS TO REMOVE ANY LOOSE PAINT AND DEBRIS PRIOR TO PAINT ANY EXTERIOR SURFACES.

DEMOLITION SCHEDULE

KEY	DESCRIPTION
1	EXTERIOR ALUMINUM DOOR AND STOREFRONT SYSTEM TO BE REMOVED.
2	EXTERIOR MASONRY COLONNADE AND COLUMNS TO BE REMOVED. G.C. TO PROTECT TILT UP WALL OF BUILDING TO REMAIN. REFER STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR NEW COLONNADE STRUCTURE.
3	REMOVE STEEL PIPE FROM ROOF. SUBSTRATE AND CLAY TILE ARE TO BE REPLACED.
4	EXTERIOR DOOR TO BE REMOVED. PATCH AND REPAIR WALL OPENING TO MATCH AND FLUSH ADJACENT WALL SURFACES. REFER WALL SCHEDULES.
5	EXTERIOR PLANTER BOX TO BE REMOVED. PATCH AND REPAIR ASPHALT TO MATCH FLUSH ADJACENT PARKING AREA. PATCH TILT-WALL AS NEEDED TO RECEIVE NEW FINISHES.
6	EXTERIOR RAMP AND ENTRANCE SLAB TO BE REMOVED. REFER CIVIL DRAWINGS FOR NEW ACCESS RAMP AT THIS AREA.
7	EXTERIOR WALL SCONCES TO BE REMOVED. REFER TO ELECTRICAL DWGS. FOR MORE INFORMATION ON THE RELOCATION OF ELECTRICAL POWER FOR NEW LIGHTING LOCATIONS.
8	PORTION OF THE EXTERIOR WALL TO BE REMOVED TO RECEIVE NEW DOOR OR WINDOW.
9	EXTERIOR WINDOW TO BE REPLACED OR REMOVED. REFER EXTERIOR ELEVATIONS AND WINDOW SCHEDULES.
10	EXISTING ROOF CLAYTILE AND ROOF SUBSTRATE TO BE BE REPLACED. RE: ROOF PLAN AND STRL DWGS.
11	PORTION OF THE EXTERIOR TRIM TO BE REMOVED. PATCH AND REPAIR TO RECEIVE NEW FINISHES.
12	EXISTING CANVAS CANOPY AND METAL FRAME TO BE REMOVED. PATCH AND REPAIR WALL TO MATCH AND FLUSH WITH ADJACENT SURFACES.
13	EXISTING PARAPET CAP TO BE REMOVED. PATCH AND REPAIR TO EXTENT OF NEW PARAPET. RE: NEW ELEVATIONS. PARAPET TO REMAIN-PREPARE WALL TOP TO RECEIVE NEW PARAPET EXTENSION WHERE OCCURS.
14	EXISTING CERAMIC TILES TO BE REMOVED. PATCH AND REPAIR TO RECEIVE NEW FINISHES.
15	REPLACED DAMAGED WOOD TRIM AROUND OVERHANG.
16	G.C. TO REPLACE ANY DAMAGED ROOF TILES.
17	EXISTING FLOOD LIGHTS TO BE REMOVED. RE: ELECTRICAL DWGS.
18	EXISTING DOWNSPOUTS TO BE REMOVED. PATCH AND REPAIR TO FLUSH ADJACENT WALL SURFACE AND RECEIVE NEW FINISH. RE: NEW ROOF PLAN.
19	ASPHALT SHINGLES TO BE REMOVED. RE: ROOF PLAN AND WALL SECTIONS FOR NEW ROOF CONFIGURATION AND PARAPET TREATMENT.
20	EXTERIOR LIGHTING FIXTURE TO BE REMOVED.
21	RAILING TO BE REMOVED. RE: FLOOR PLAN FOR NEW CONFIGURATION.
22	EXISTING WOOD FRAMED PARAPET TO BE REMOVED.
23	EXISTING ROOF LADDER ACCESS TO BE REMOVED. REFER ROOF PLAN FOR NEW ROOF HATCH AND ACCESS LADDER LOCATION.

THE WARREN GROUP
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SEAL
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18370
STATE OF TEXAS
EXP 10-31-19

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

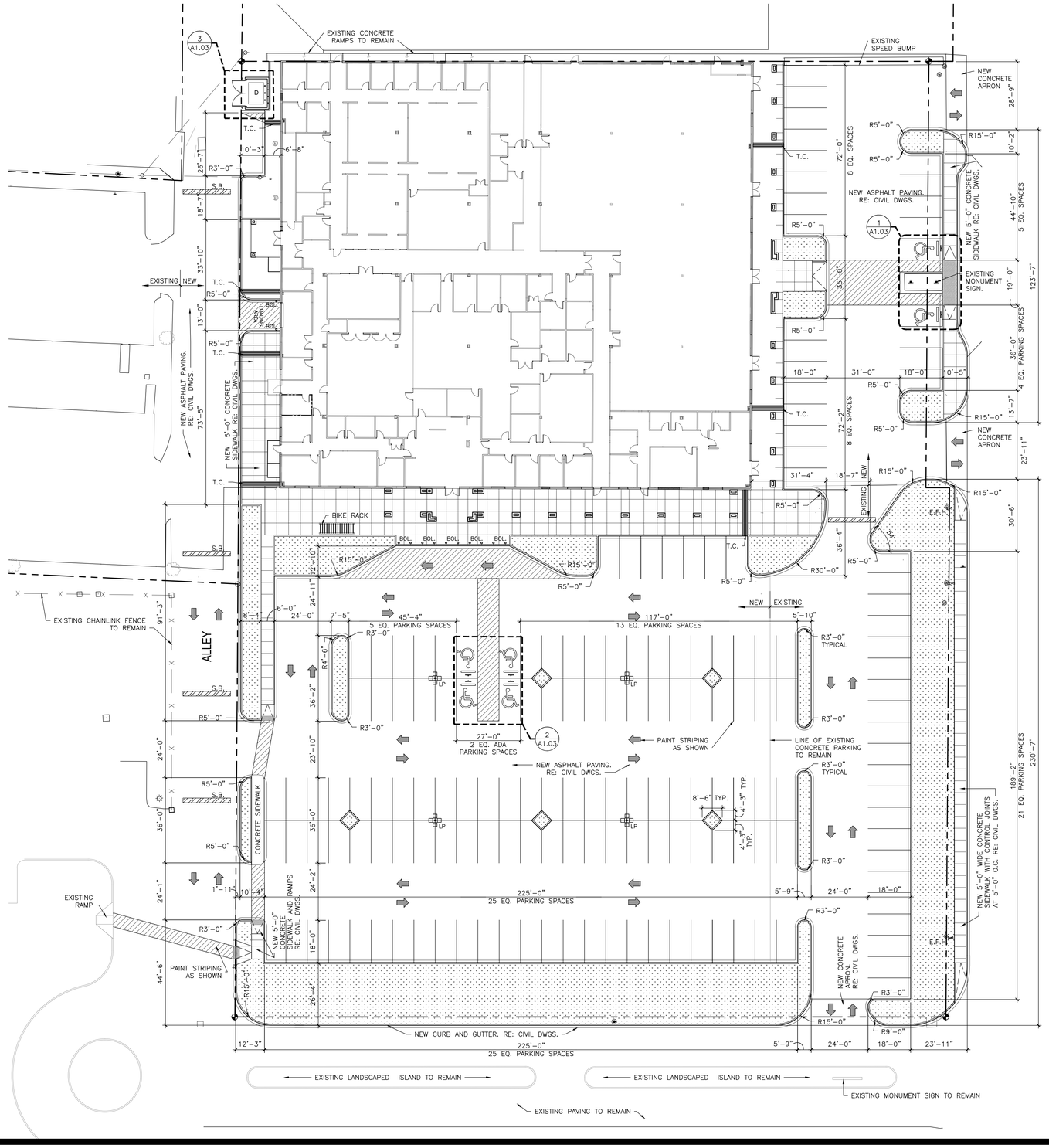
AD2.11
DEMOLITION EXTERIOR ELEVATIONS

SHEET NOTES

1. REFER CIVIL DRAWINGS FOR DEMOLITION SCOPE.
2. REFER CIVIL DRAWINGS FOR EXTENT OF NEW ASPHALT PAVING, SIDEWALKS, AND SITE DIMENSIONAL CONTROL PLAN.
2. REFER CIVIL DRAWINGS FOR GRADING ELEVATIONS/SPOT ELEVATIONS.
3. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR TRANSFORMER AND GENERATOR PAD CONSTRUCTION DETAILS.

SHEET LEGEND

- LANDSCAPE AND IRRIGATED AREA–RE: LANDSCAPE DRAWINGS.
- LP — LIGHT POLE – RE: ELECTRICAL DRAWINGS.
- BOL. — PIPE BOLLARD REF: 7/A1.03
- S.B. — SPEED BUMP
- D — DUMPSTER ENCLOSURE
- F.H. — EXISTING FIRE HYDRANT RE: CIVIL DRAWINGS
- TREE PLANTER
- T.C. — TRENCH COVER REF: 8/A1.03 DETAILS



1 OVERALL SITE PLAN
SCALE: 1"=20'-0"

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TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
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A1.01
OVERALL SITE PLAN

SHEET NOTES

1. REFER CIVIL DRAWINGS FOR DEMOLITION SCOPE.
2. REFER CIVIL DRAWINGS FOR NEW ASPHALT PAVING, SIDEWALKS, AND SITE DIMENSIONAL CONTROL PLAN.
3. REFER CIVIL DRAWINGS FOR GRADING ELEVATIONS/SPOT ELEVATIONS.
4. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR TRANSFORMER AND GENERATOR PAD CONSTRUCTION DETAILS.

SHEET LEGEND

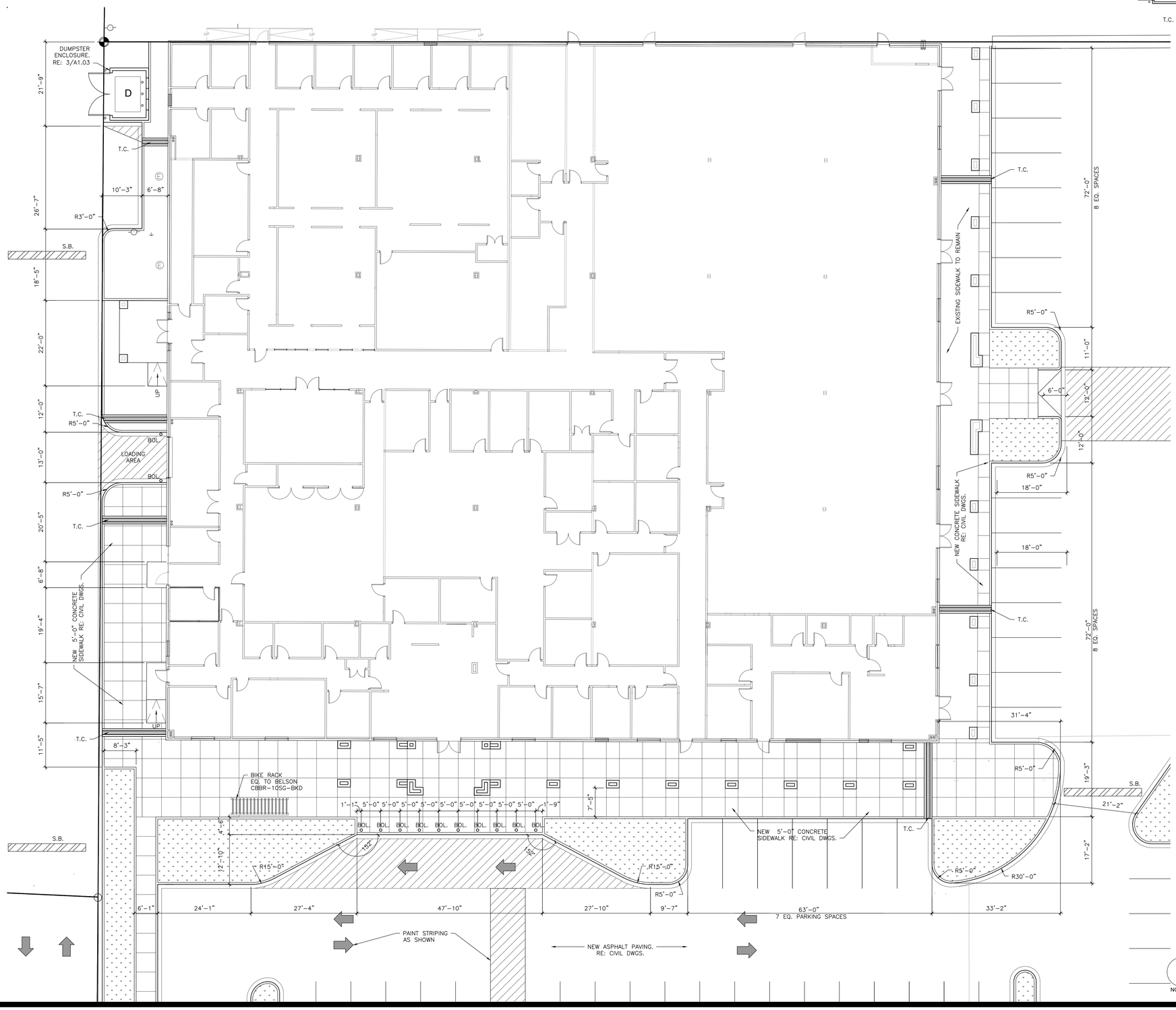
LANDSCAPE AND IRRIGATED AREA—RE: LANDSCAPE DRAWINGS.

BOL. PIPE BOLLARD REF:7/A1.03

S.B. SPEED BUMP

D DUMPSTER ENCLOSURE

T.C. TRENCH COVER REF: 8/A1.03 DETAILS



1 PARTIAL SITE PLAN
SCALE: 3/32"=1-0"

THE WARREN GROUP ARCHITECTS, INC.

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REGISTERED ARCHITECT JOHN M. WARREN 18378 STATE OF TEXAS

EXP 10-31-19

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TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
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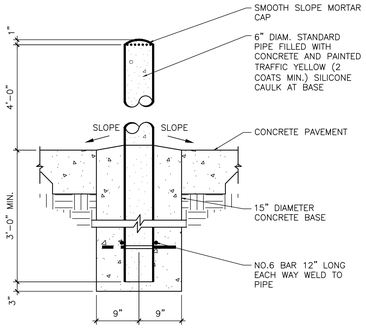
REVISED	

A1.02
PARTIAL SITE PLAN

8 TRENCH DRAIN DETAIL

SCALE: 3"=1'-0" SITE_DETL_008



7 PIPE BOLLARD-A- DETAIL

SCALE: 3/8"=1'-0" SITE_DETL_003

NOTE:

1. SIGNS SHOULD BE PROPERLY CENTERED AT FRONT OF PARKING SPACE
2. SIGN FACE SHOULD BE LOCATED NO FURTHER THAN 6" FROM THE FRONT OF EACH PARKING SPACE WITH MINIMUM 3'-0" CLEAR
3. MOUNT SIGN ON COLUMN OR WALL AT SIM. CONDITION
4. WHERE SIGN IS PLACED IN PAVED AREA AT PARKING STALLS, PROVIDE PRECAST BUMPERS
5. PROVIDE "VAN ACCESSIBLE" SIGN AS SHOWN AT VAN ACCESSIBLE PARKING SPACE

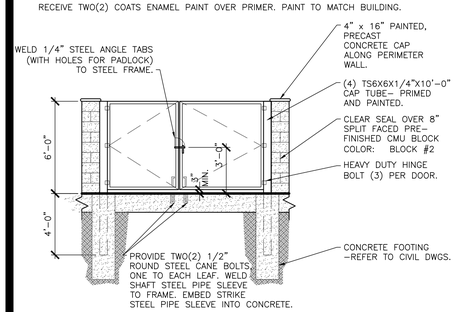
6 ACCESSIBLE SIGN DETAIL

NOT TO SCALE SITE_DETL_004

5 ACCESSIBLE PARKING SYMBOL

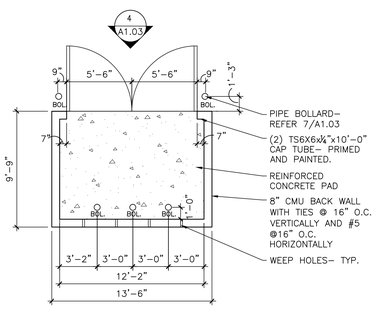
NOT TO SCALE SITE_DETL_007

NOTE:
GATE CONSTRUCTION TO BE 1 1/2" X 20 GAUGE STEEL DECK, WELDED TO 1 1/2" X 2" STEEL ANGLE PERIMETER TRIM. WELD ANGLE PERIMETER TRIM TO 2" X 3" STEEL TUBULAR MAIN GATE FRAME. ALL METAL SURFACES TO RECEIVE TWO(2) COATS ENAMEL PAINT OVER PRIMER. PAINT TO MATCH BUILDING.



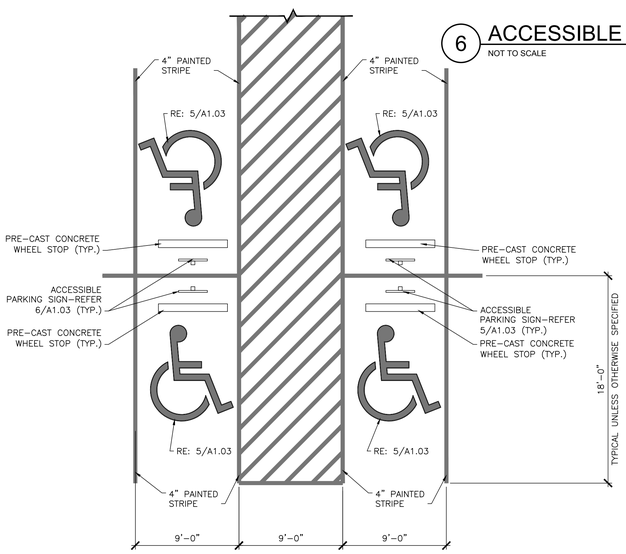
4 DUMPSTER ENCLOSURE ELEVATION

SCALE:1/4" = 1'-0" SITE_DETL_002



3 DUMPSTER ENCLOSURE DETAIL

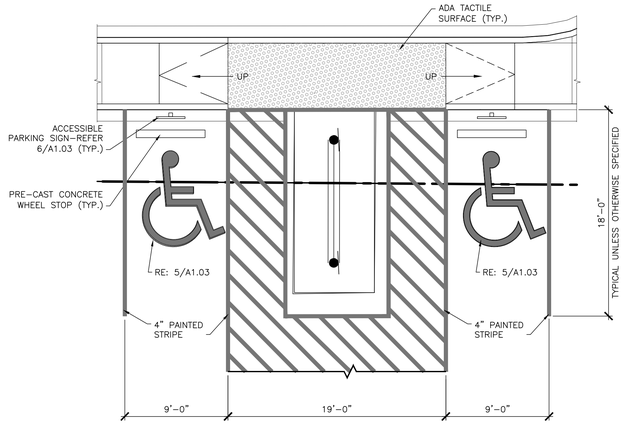
SCALE: 3/16"=1'-0" SITE_DETL_01



NORTH

2 ACCESSIBLE PARKING DETAIL

SCALE: 3/16" = 1'-0" SITE_DETL_006



NORTH

1 ACCESSIBLE PARKING DETAIL

SCALE: 3/16" = 1'-0" SITE_DETL_005

THE WARREN GROUP
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SEAL

REGISTERED ARCHITECT
JAMES E. WARREN
18375
STATE OF TEXAS

EXP 10-31-19

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

A1.03
SITE PLAN DETAILS

SHEET NOTES

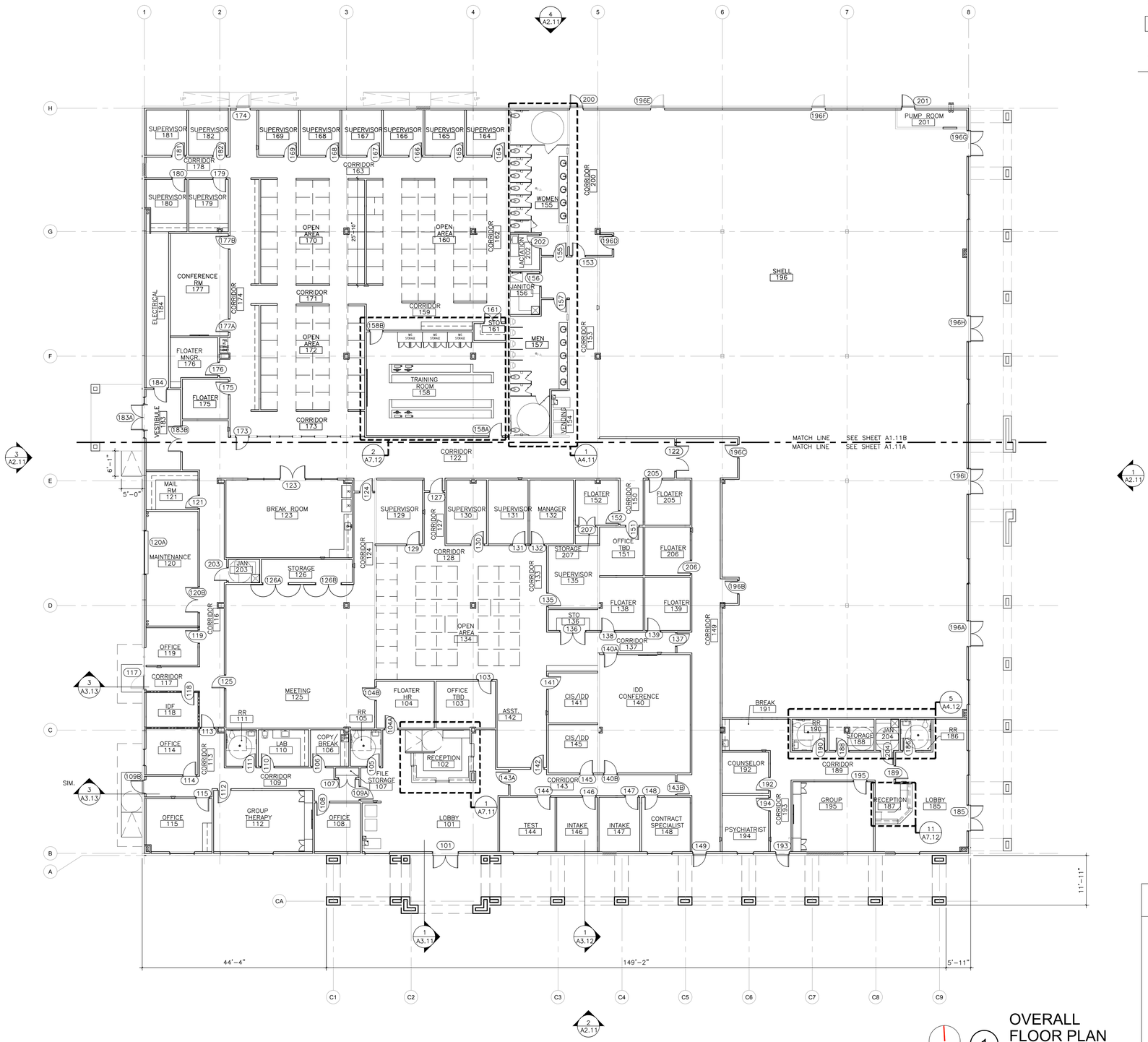
1. REFER TO STRL DWGS FOR CONTROL AND EXPANSION JOINTS TO BE PROVIDED AT CONCRETE SLAB.
2. REFER TO ROOF PLAN FOR ROOF DRAIN LOCATIONS.
3. REFER TO G0.01 FOR KEYS AND SYMBOLS.

SHEET LEGEND

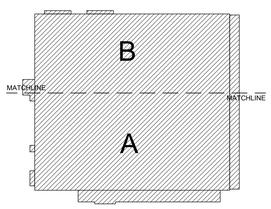
F.E.C.	FIRE EXTINGUISHER IN RECESSED CABINET
E.J.	EXPANSION JOINT
E.W.C.	HI–LO ELECTRICAL WATER COOLER
REF.	REFRIGERATOR PROVIDED BY OWNER
FD.	FLOOR DRAIN
RD.	ROOF DRAIN
O.D.	OVERFLOW DRAIN
V	VENDING MACHINE BY OWNER

WALL LEGEND

	1HR. FIRE RATED WALL
	NEW INTERIOR WALL
	EXISTING WALL TO REMAIN
XX	INTERIOR WALL TYPE RE: A6.01 FOR WALL TYPES
EWA–#	EXTERIOR WALL ASSEMBLY RE: A6.01 FOR WALL TYPES



KEY PLAN



NORTH

1 OVERALL FLOOR PLAN
SCALE: 3/32"=1'-0"

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SEAL
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CHRISTINA M. WARREN
18378
STATE OF TEXAS
EXP 10-31-19

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
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A1.11
OVERALL FLOOR PLAN

SHEET NOTES

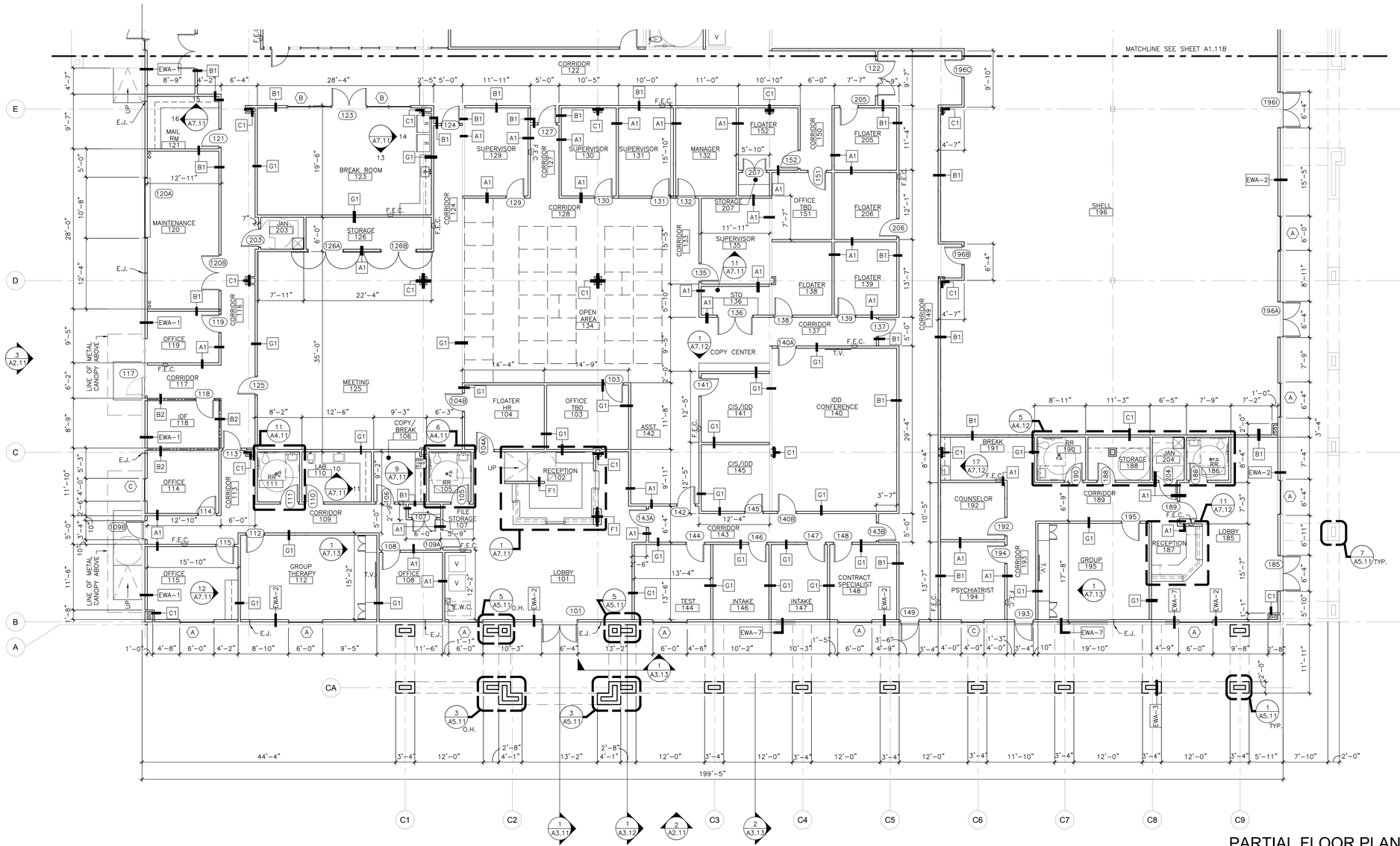
1. REFER TO STRL DWGS FOR CONTROL AND EXPANSION JOINTS TO BE PROVIDED AT CONCRETE SLAB.
2. REFER TO ROOF PLAN FOR ROOF DRAIN LOCATIONS.
3. REFER TO G0.01 FOR KEYS AND SYMBOLS.

SHEET LEGEND

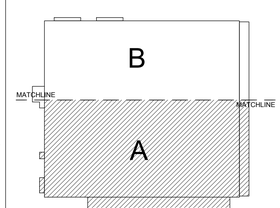
F.E.C.	FIRE EXTINGUISHER IN RECESSED CABINET
E.J.	EXPANSION JOINT
E.W.C.	HI-LO ELECTRICAL WATER COOLER
REF.	REFRIGERATOR PROVIDED BY OWNER
FD.	FLOOR DRAIN
RD.	ROOF DRAIN
O.D.	OVERFLOW DRAIN
V	VENDING MACHINE BY OWNER
T.V.	TELEVISION

WALL LEGEND

	1HR. FIRE RATED WALL
	NEW INTERIOR WALL
	EXISTING WALL TO REMAIN
XX	INTERIOR WALL TYPE RE: A6.01 FOR WALL TYPES
EWA-#	EXTERIOR WALL ASSEMBLY RE: A6.01 FOR WALL TYPES



KEY PLAN



NORTH

1 PARTIAL FLOOR PLAN- AREA "A"
SCALE: 1/8"=1:0"

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
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STATE OF TEXAS
18378
EXP 10-31-19

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TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

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A1.11A
FLOOR PLAN-A

SHEET NOTES

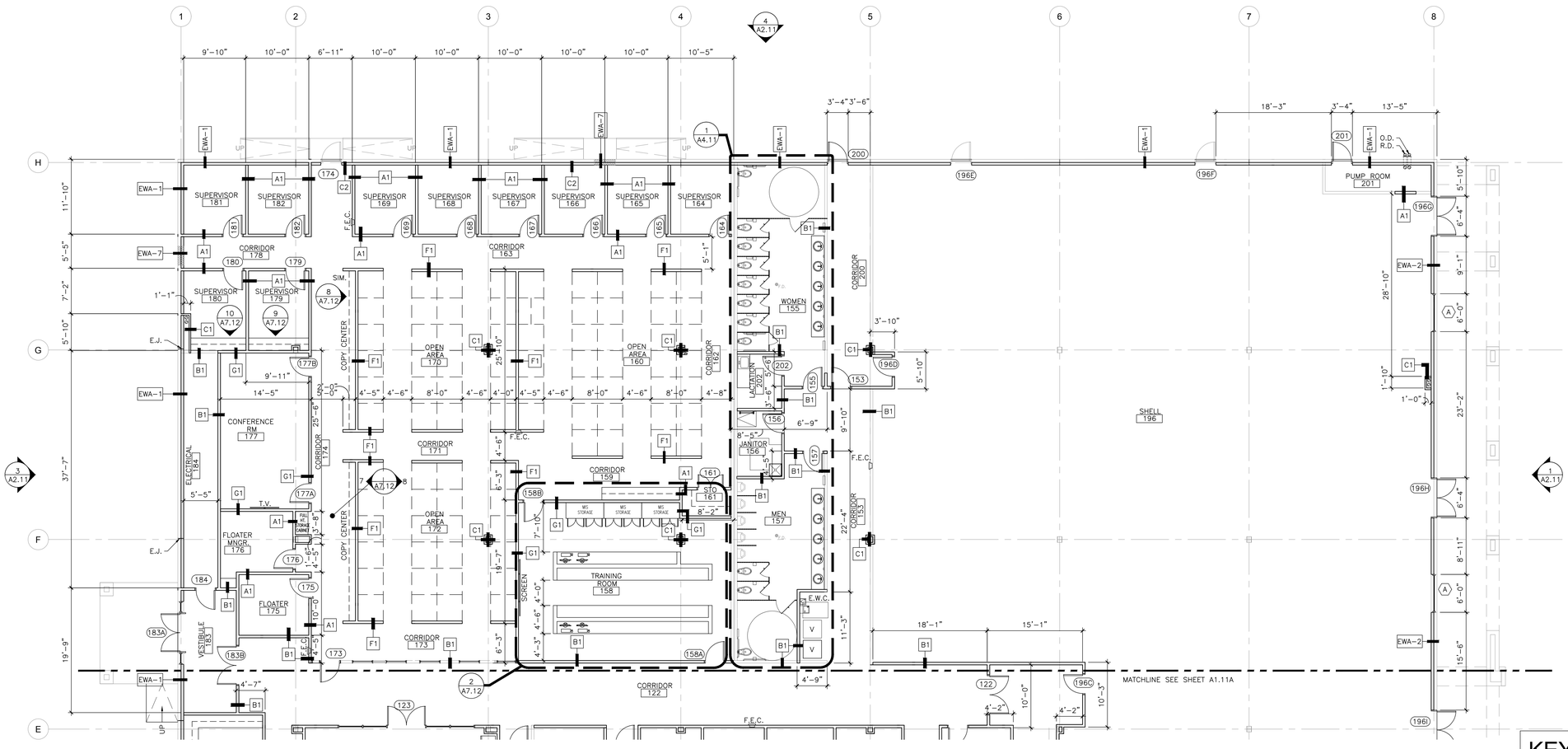
1. REFER TO STRL DWGS FOR CONTROL AND EXPANSION JOINTS TO BE PROVIDED AT CONCRETE SLAB.
2. REFER TO ROOF PLAN FOR ROOF DRAIN LOCATIONS.
3. REFER TO G0.01 FOR KEYS AND SYMBOLS.

SHEET LEGEND

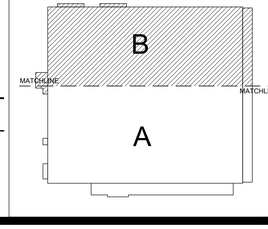
F.E.C.	FIRE EXTINGUISHER IN RECESSED CABINET
E.J.	EXPANSION JOINT
E.W.C.	HI–LO ELECTRICAL WATER COOLER
REF.	REFRIGERATOR PROVIDED BY OWNER
FD.	FLOOR DRAIN
RD.	ROOF DRAIN
O.D.	OVERFLOW DRAIN
V	VENDING MACHINE BY OWNER
T.V.	TELEVISION

WALL LEGEND

	1HR. FIRE RATED WALL
	NEW INTERIOR WALL
	EXISTING WALL TO REMAIN
XX	INTERIOR WALL TYPE RE: A6.01 FOR WALL TYPES
EWA–#	EXTERIOR WALL ASSEMBLY RE: A6.01 FOR WALL TYPES



KEY PLAN



NORTH

1 PARTIAL FLOOR PLAN-AREA "B"

SCALE: 1/8"=1'-0"

TWG
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McALLEN, TX 78503
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REGISTERED ARCHITECT TBPA 18378 STATE OF TEXAS

EXP. 10–31–19

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

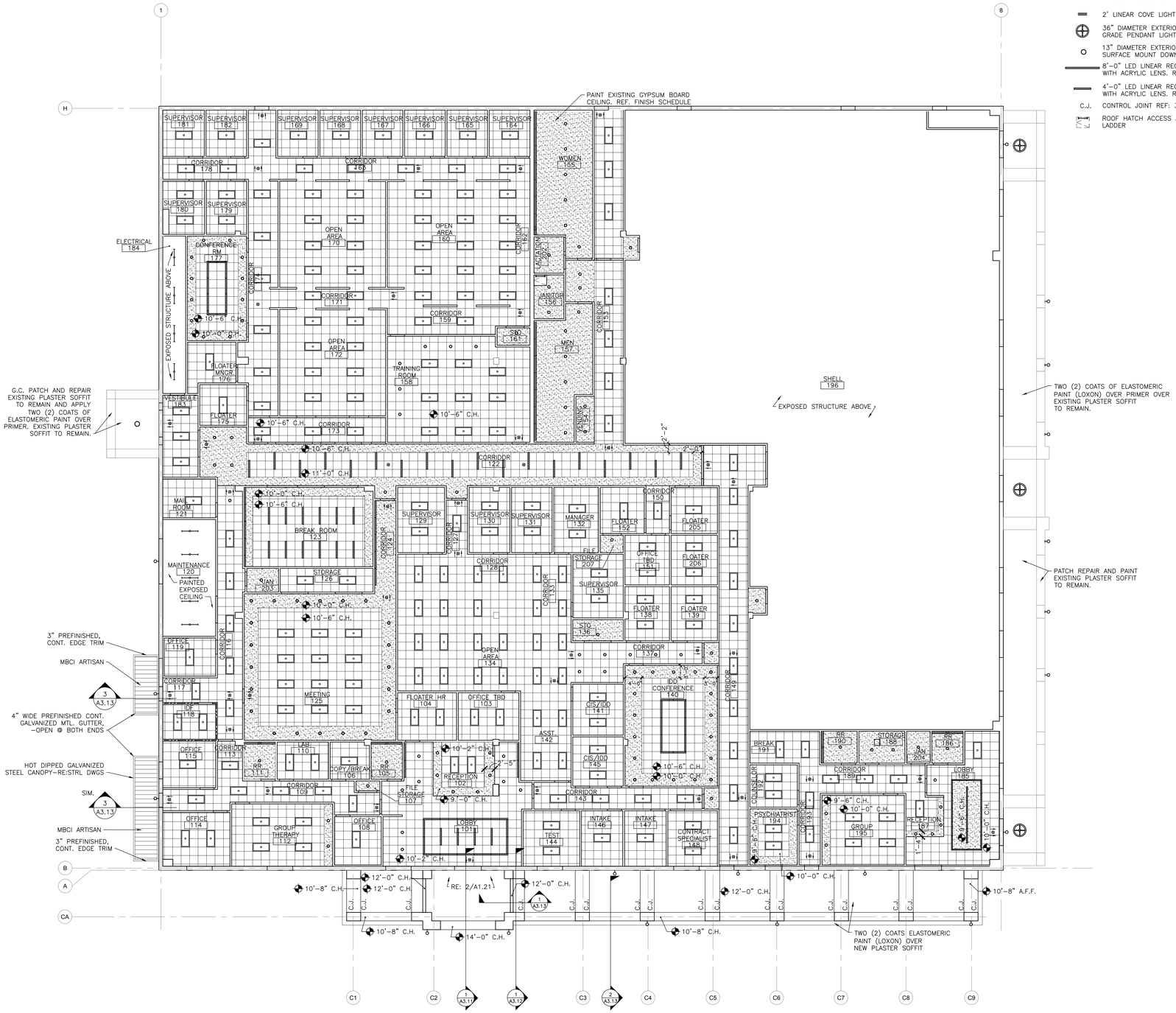
A1.11B
FLOOR PLAN-B

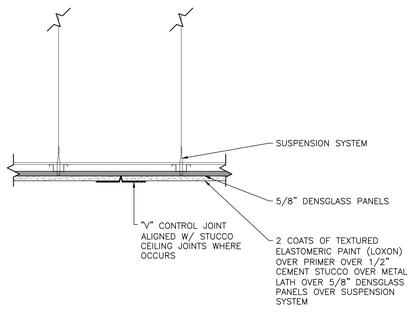
SHEET NOTES

1. ALL CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS OTHERWISE NOTED.
2. REFER TO ELECTRICAL PLANS FOR LIGHTING SCHEDULE.
3. ACCESS PANELS TO BE PROVIDED WHERE REQUIRED.

SHEET LEGEND

- 2'X2' ACOUSTICAL CEILING TILE
- EMERGENCY EXIT LIGHT/SIGN
- WALL SCONCE
- 6" RECESSED CAN LIGHT
- 2'X4' RECESSED LIGHT
- 1'X4' SUSPENDED LIGHT FIXTURE WITH PROTECTIVE CAGE
- 4' LINEAR COVE LIGHT
- 2' LINEAR COVE LIGHT
- 36" DIAMETER EXTERIOR GRADE PENDANT LIGHT
- 13" DIAMETER EXTERIOR GRADE SURFACE MOUNT DOWNLIGHT LIGHT
- 8'-0" LED LINEAR RECESSED LIGHT WITH ACRYLIC LENS. RE: ELECTRICAL DWGS.
- 4'-0" LED LINEAR RECESSED LIGHT WITH ACRYLIC LENS. RE: ELECTRICAL DWGS.
- C.J. CONTROL JOINT REF: 3/A1.21 DETAIL
- ROOF HATCH ACCESS AND LADDER

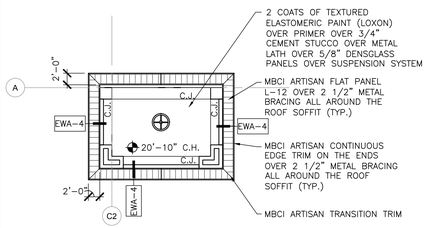




3 CEILING CONTROL JOINT

SCALE: 1 1/2"=1'-0"

RCP_DETL_001



2 TOWER CANOPY REFLECTED CEILING PLAN

SCALE: 3/32"=1'-0"

NORTH

1 REFLECTED CEILING PLAN

SCALE: 3/32"=1'-0"

NORTH

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A1.21

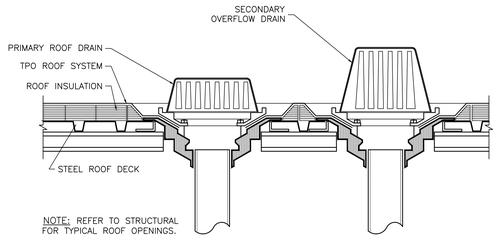
REFLECTED CEILING PLAN

SHEET NOTES

1. REFER STRUCTURAL DRAWINGS FOR TOP OF STEEL HEIGHTS.
2. REFER TO PLUMBING DRAWINGS FOR ROOF AND OVERFLOW DRAIN SIZING.

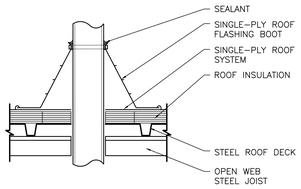
SHEET LEGEND

+ R.D.	ROOF DRAIN
+ O.D.	OVERFLOW DRAIN
RTU	NEW ROOF TOP UNITS. RE: MECHANICAL
	NEW ROOF HATCH
DN.	SLOPE DOWN
	TWO–PIECE, MISSION STYLE CLAY TILE AS PROVIDED BY CLAYMEX, COLOR TO BE SELECTED BY ARCHITECT.



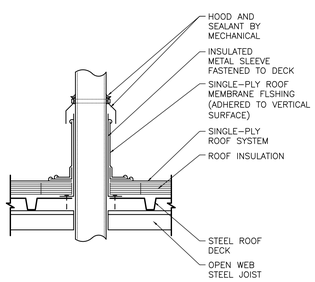
6 ROOF AND OVERFLOW DRAIN DETAIL

SCALE: 1 1/2"=1'-0" ROOF_DETL_001



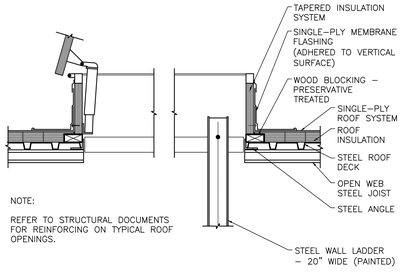
4 PIPE FLASHING (COLD) DETAIL

SCALE: 1 1/2"=1'-0" ROOF_DETL_003



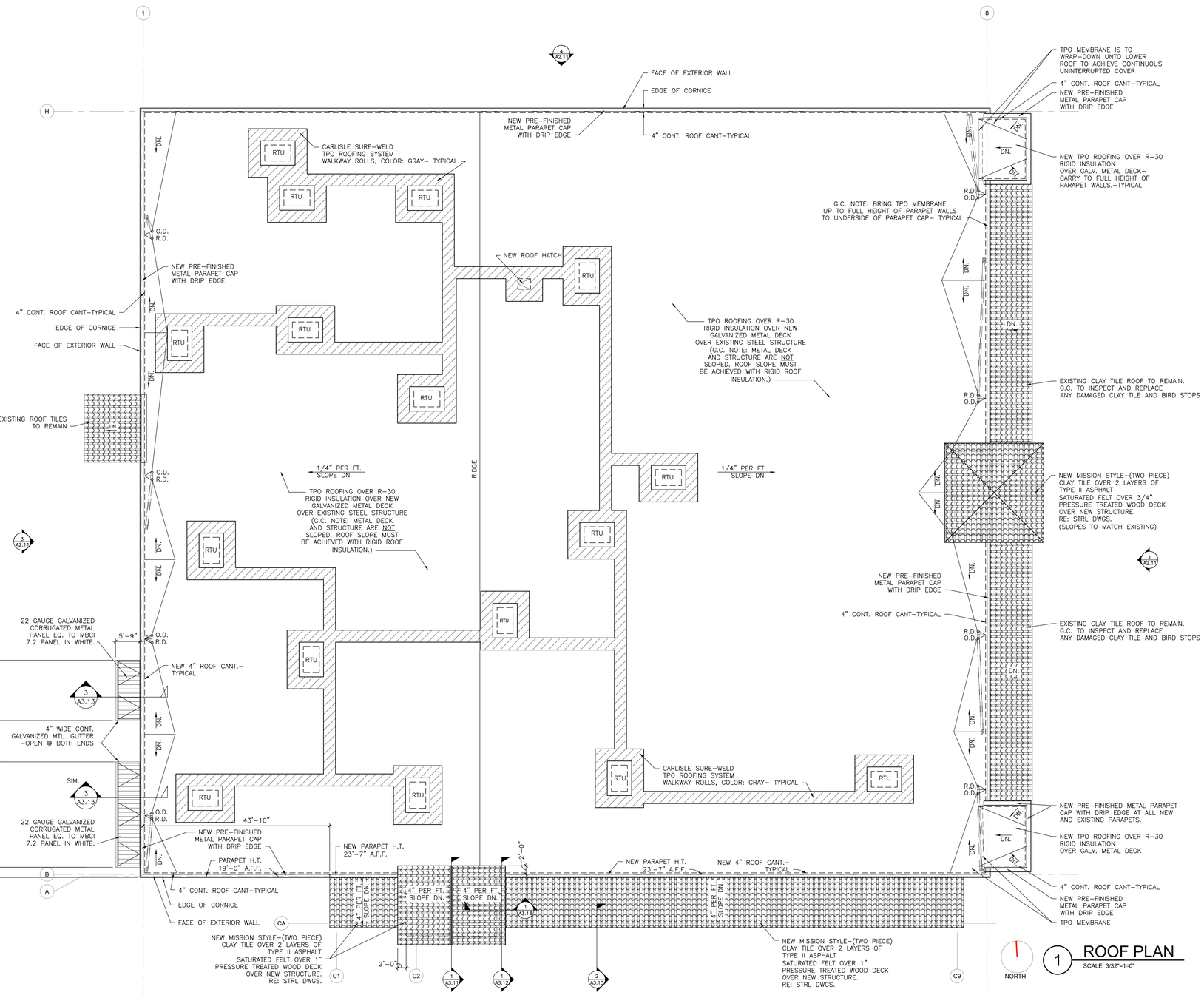
3 PIPE FLASHING (HOT) DETAIL

SCALE: 1 1/2"=1'-0" ROOF_DETL_002



2 ROOF HATCH DETAIL

SCALE: 1 1/2"=1'-0" ROOF_DETL_004



1 ROOF PLAN

SCALE: 3/32"=1'-0"

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A1.31

ROOF PLAN

SHEET NOTES

1. FLOOR PATTERNS SUBJECT TO OWNER APPROVAL PRIOR TO INSTALLATION.
2. G.C. TO COORDINATE WITH MILLWORK INSTALLER TO FILL IN FLOORING BELOW OPEN COUNTERS.
3. G. C. TO PROVIDE TAS–ADA COMPLIANT FLOOR TRANSITION STRIPS BETWEEN FLOOR FINISHES.
4. ROOMS WITH NO PATTERN ARE TO BE IN THE FIELD COLORS STATED BELOW OR IN THE DIFFERENT FLOOR MATERIALS AS NOTED.

SHEET LEGEND

- LVT 1 (FIELD)
- LVT 2
- LVT 3
- LVT 4
- LVT 5

CPT–1 CARPET TILE

PT–1 PORCELAIN

1 FLOOR PATTERN PLAN
SCALE: 3/16"=1:0"

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A1.41
FLOOR PATTERN PLAN

SHEET NOTES

1. ROOMS WITH NO ACCENT COLOR TO BE IN THE FIELD COLOR STATED BELOW.

SHEET LEGEND

PNT-1 (FIELD)
SHERWIN WILLIAMS
SW 7042
SHOJI WHITE

PNT-2
SHERWIN WILLIAMS
SW 7642
PAVESTONE

PNT-3
SHERWIN WILLIAMS
SW 9058
SECRET COVE

1 ACCENT WALL PLAN
SCALE: 3/16"=1'-0"

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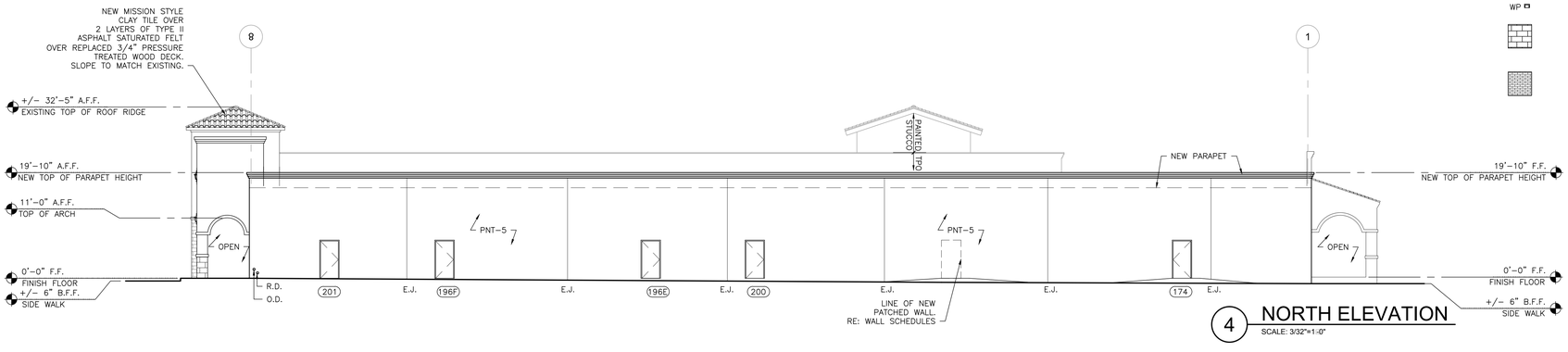
A1.42
ACCENT WALL PLAN

SHEET NOTES

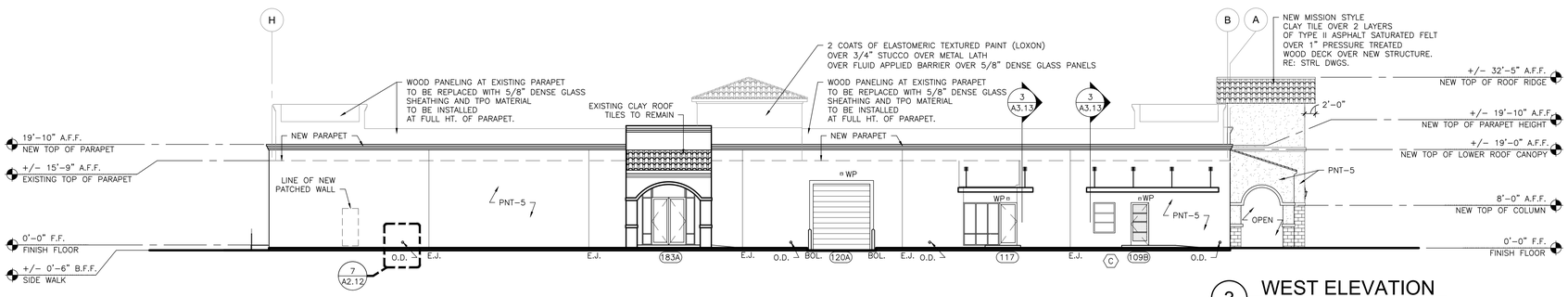
1. REFER TO ELECTRICAL DRAWINGS FOR EXTERIOR BUILDING LIGHT FIXTURES.
2. REFER TO SHEET A6.21 FOR DOOR AND WINDOW SCHEDULE.
3. REFER TO WALL TYPES SCHEDULE FOR ADDITIONAL INFORMATION ON EXTERIOR WALL ASSEMBLY
4. G.C. TO FIELD VERIFY EXISTING ROOF HEIGHTS.

SHEET LEGEND

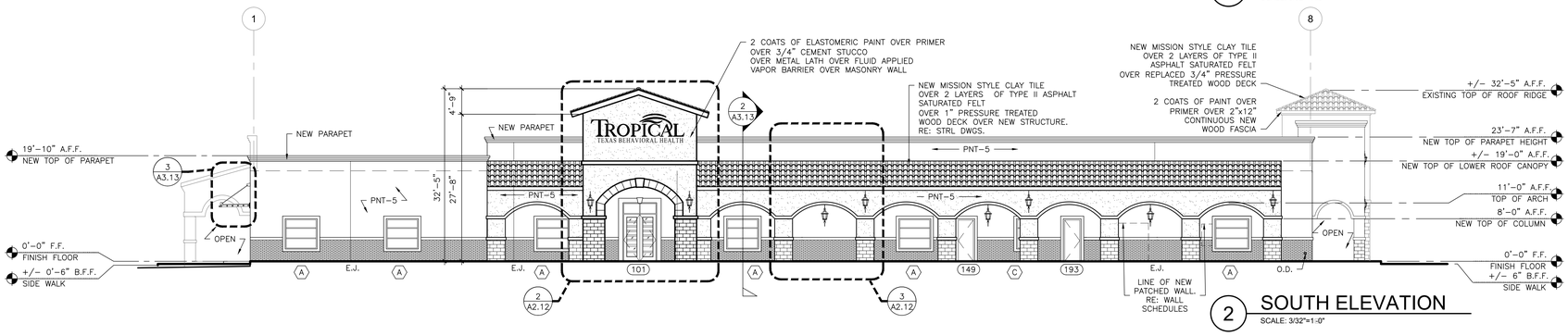
E.J.	EXISTING EXPANSION JOINT. G.C. TO REPLACE EXPANSIVE CAULK AND BACKER ROD TO FULL HEIGHT OF JOINTS–TYPICAL.
R.D.	ROOF DRAIN
O.D.	OVERFLOW DRAIN
BOL.	BOLLARD
	WALL SCONCE. RE: ELECTRICAL DWGS.
WP	WALL PACK. RE: ELECTRICAL DWGS.
	SPLIT FACE CONCRETE BLOCK EQ. TO INNOVATIVE BLOCK COLOR#1 WHITE OR ARCHITECT APPROVED EQUAL
	BRICK VENEER EQ. TO INTERSTATE BRICK COLOR COPPERSTONE OR ARCHITECT APPROVED EQUAL



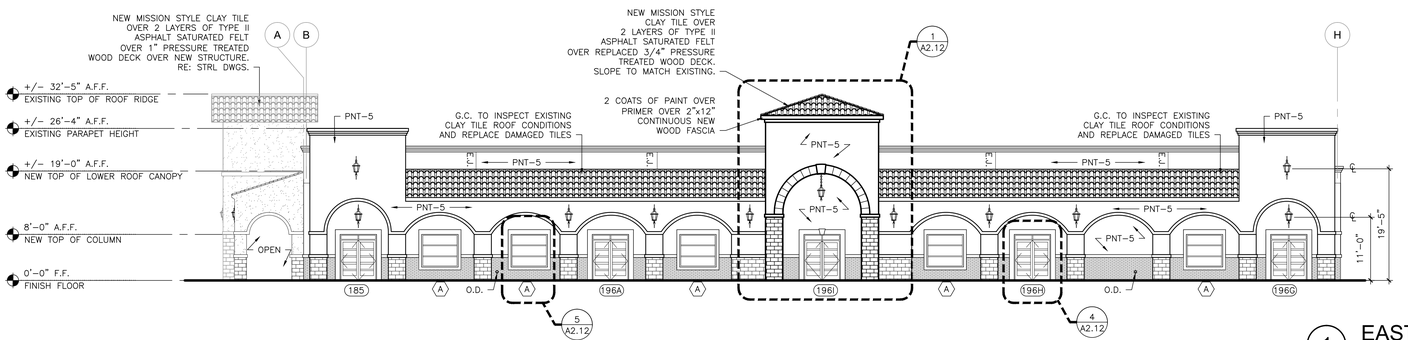
4 NORTH ELEVATION
SCALE: 3/32"=1'-0"



3 WEST ELEVATION
SCALE: 3/32"=1'-0"



2 SOUTH ELEVATION
SCALE: 3/32"=1'-0"



1 EAST ELEVATION
SCALE: 3/32"=1'-0"

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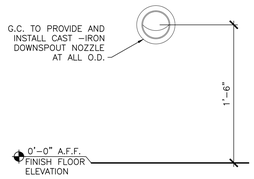
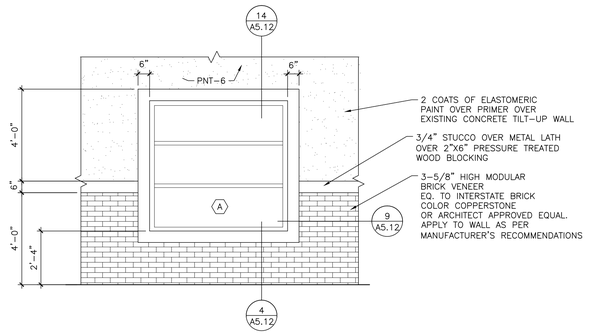
A2.11
EXTERIOR ELEVATIONS



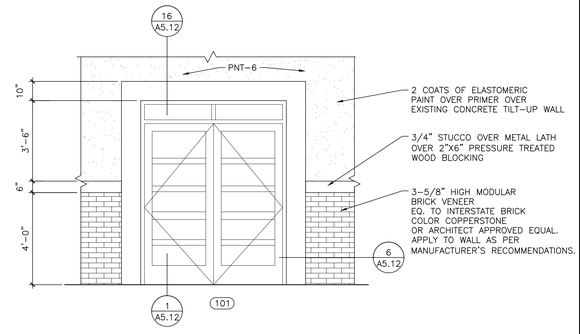
6 OVERFLOW DRAIN TYP. HEIGHT DETAIL

SCALE: 3/8"=1'-0"



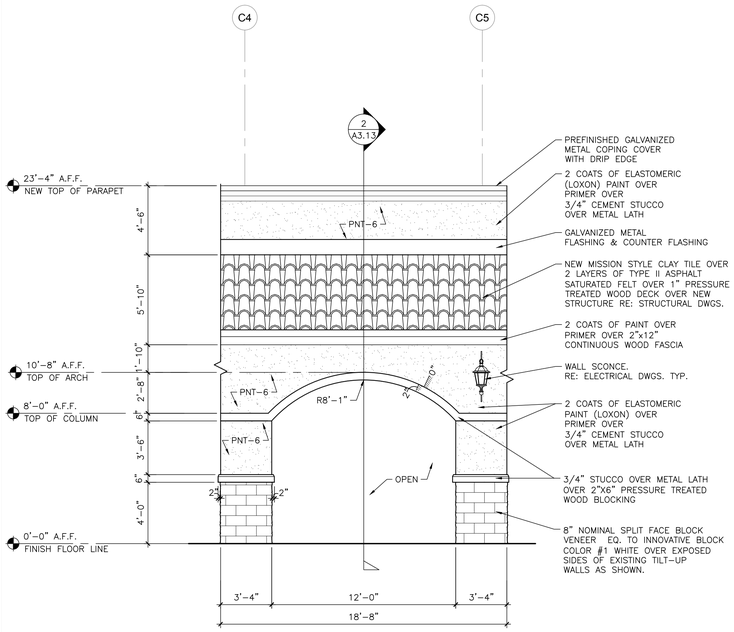
5 PARTIAL ELEVATION

SCALE: 3/8"=1'-0"



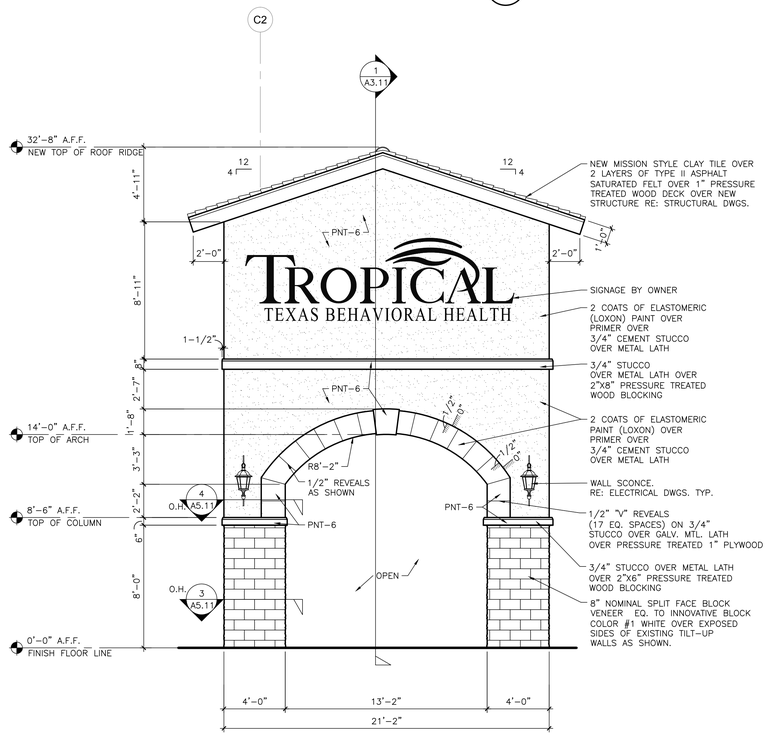
4 PARTIAL ELEVATION

SCALE: 3/8"=1'-0"



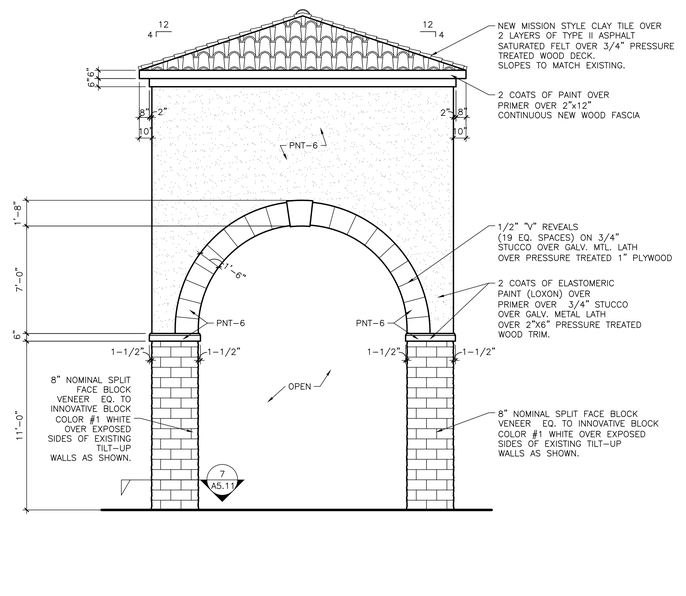
3 PARTIAL ELEVATION AT SOUTH ELEVATION

SCALE: 1/4"=1'-0"



2 PARTIAL ELEVATION AT SOUTH ELEVATION

SCALE: 1/4"=1'-0"



1 PARTIAL ELEVATION AT EAST ELEVATION

SCALE: 1/4"=1'-0"

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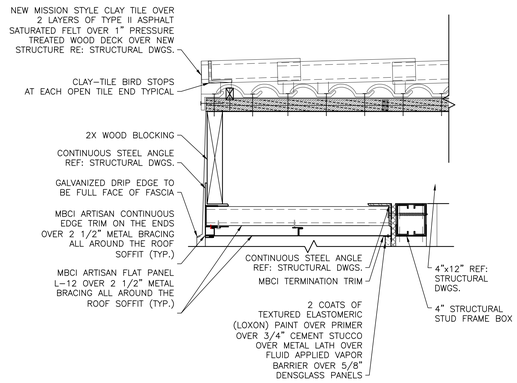
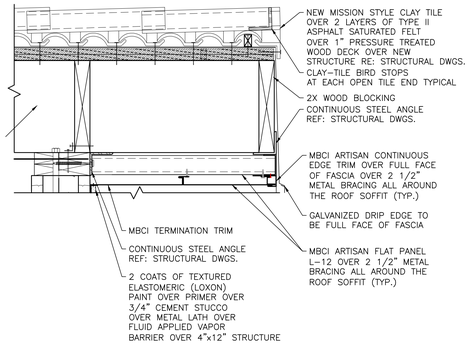
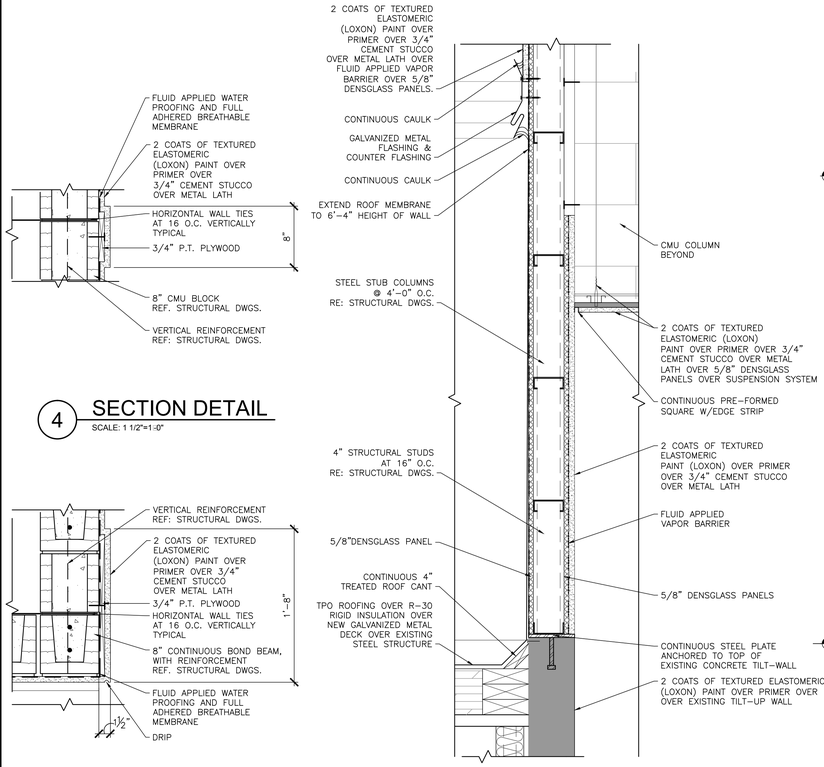
A2.12
ENLARGED ELEVATIONS



6 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



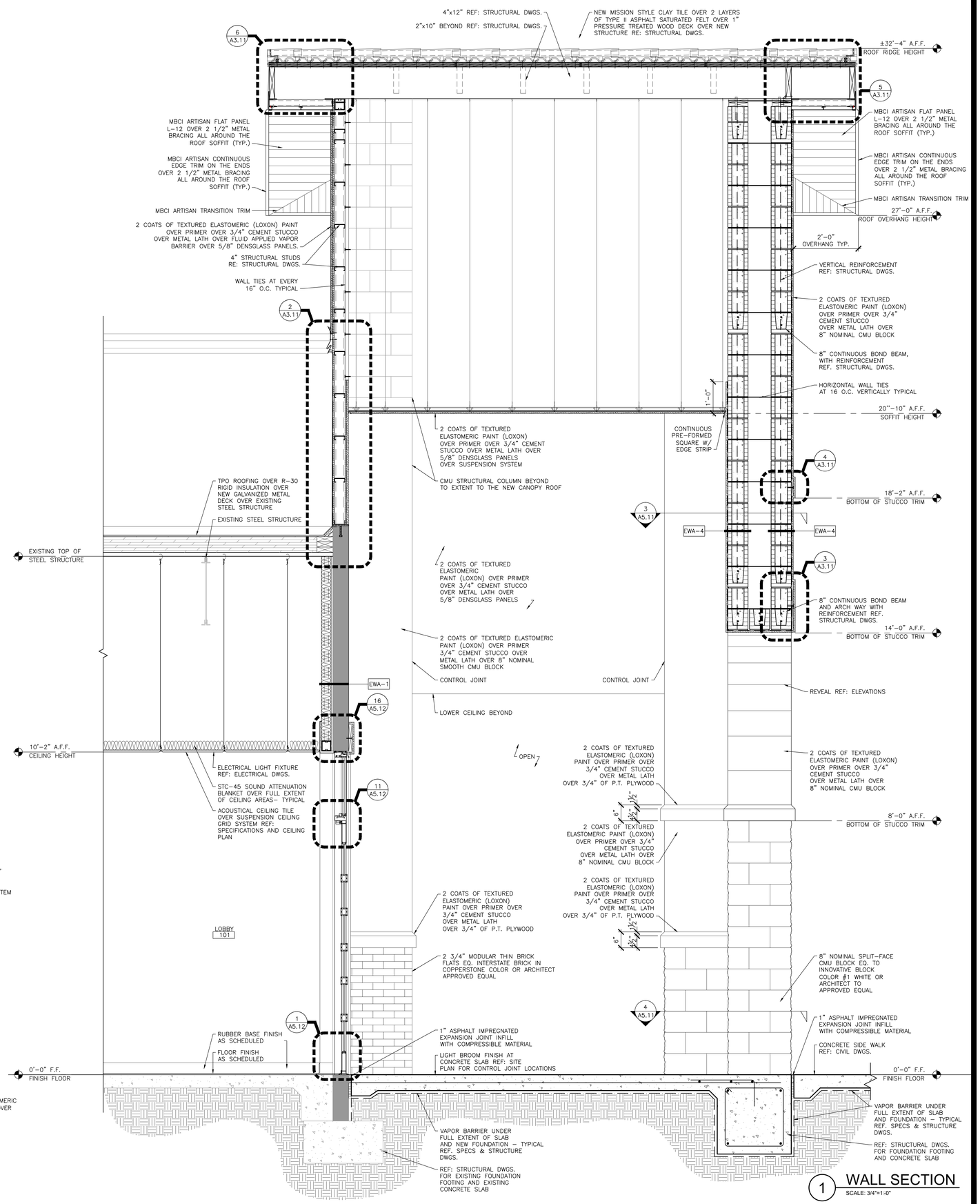
5 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



4 SECTION DETAIL
SCALE: 1 1/2"=1'-0"

3 SECTION DETAIL
SCALE: 1 1/2"=1'-0"

2 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



1 WALL SECTION
SCALE: 3/4"=1'-0"

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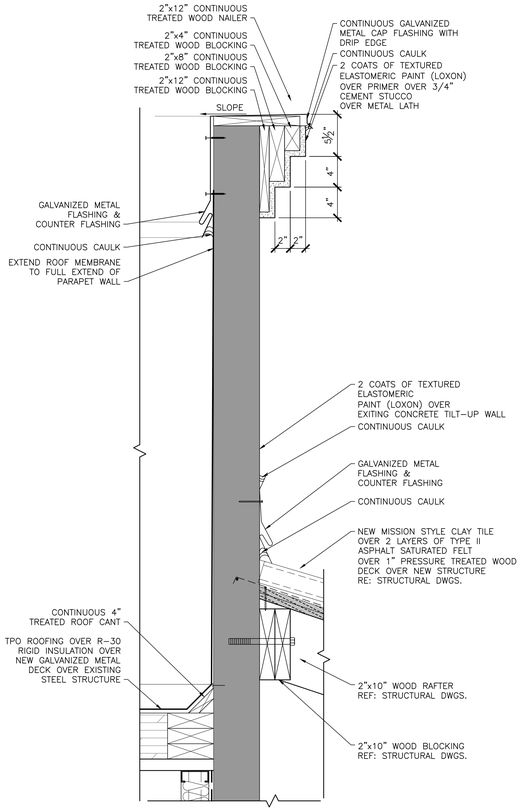
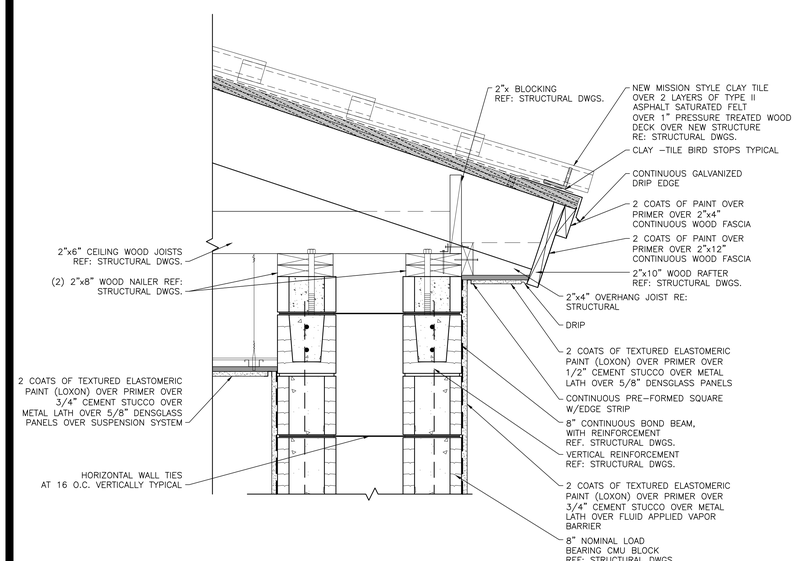
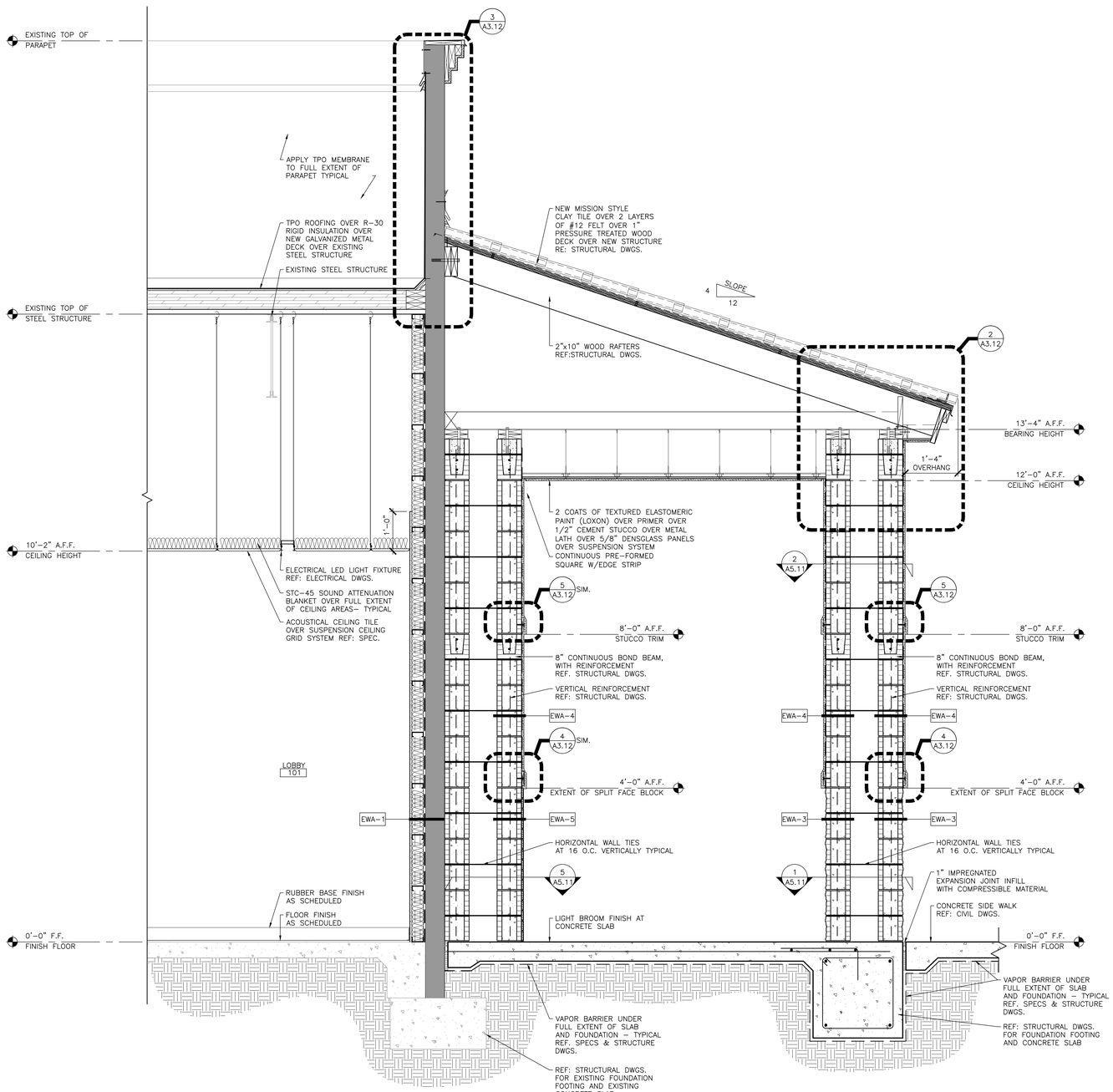
A3.11
WALL SECTIONS AND DETAILS



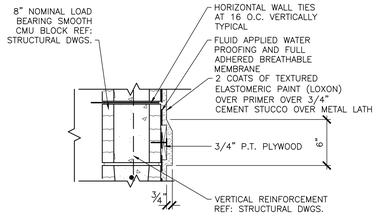
3 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



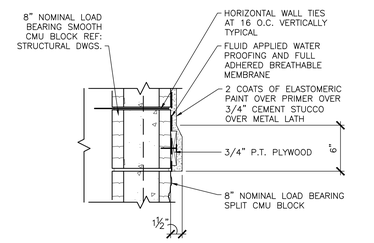
2 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



1 WALL SECTION
SCALE: 3/4"=1'-0"



5 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



4 SECTION DETAIL
SCALE: 1 1/2"=1'-0"

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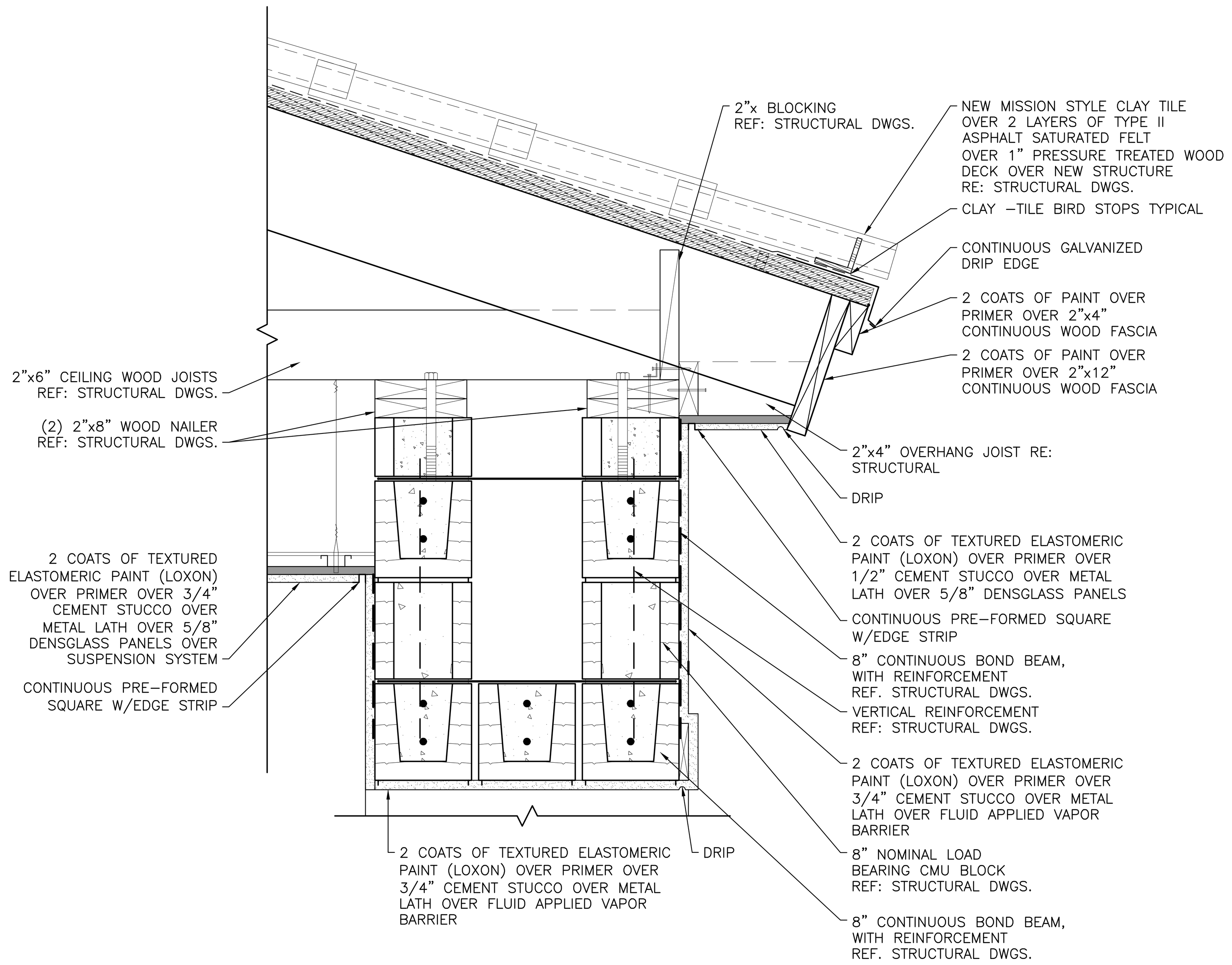
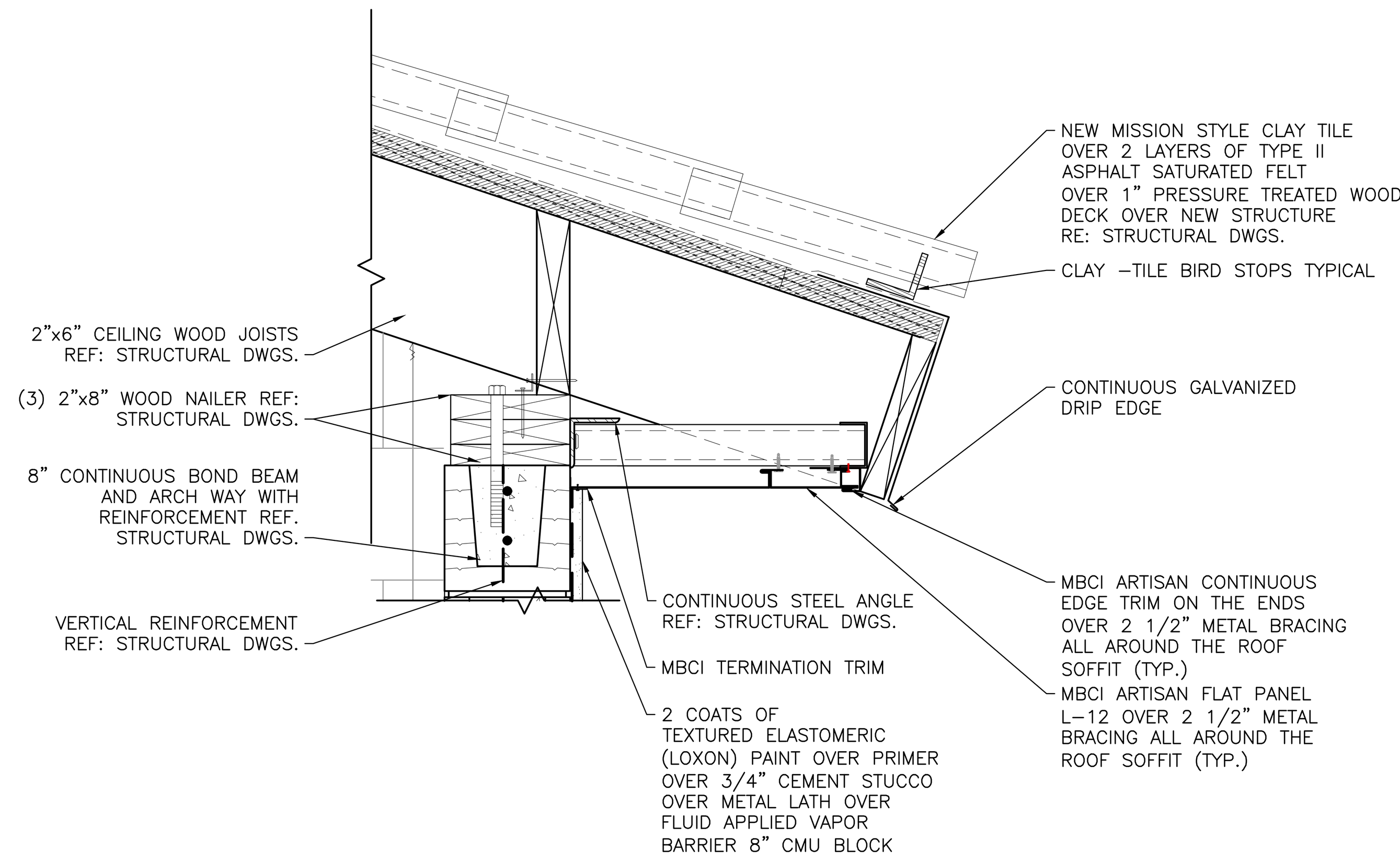
WALL SECTIONS AND DETAILS



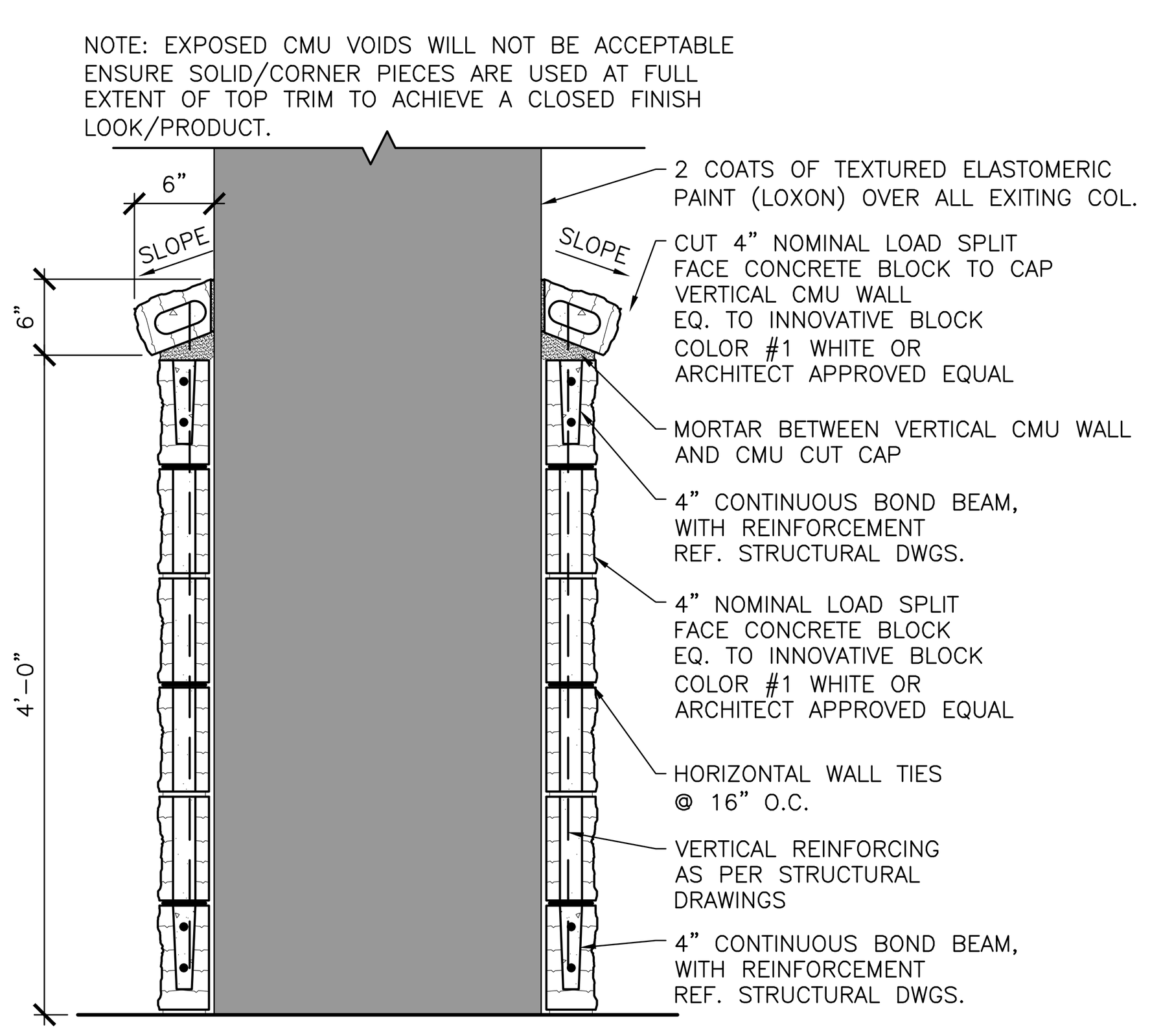
6 SECTION DETAIL

SCALE: 1 1/2"=1'-0"



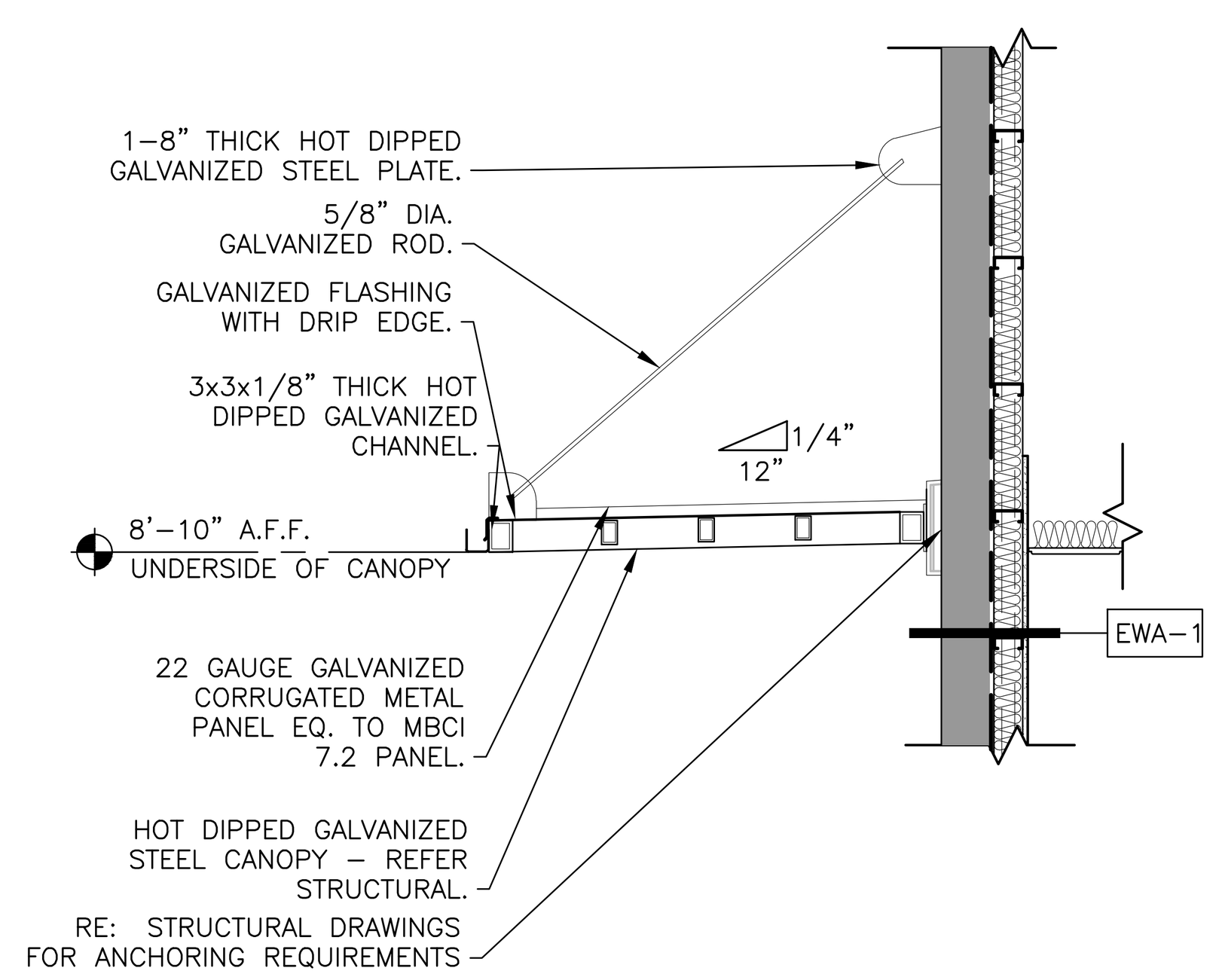
5 SECTION DETAIL

SCALE: 1 1/2"=1'-0"



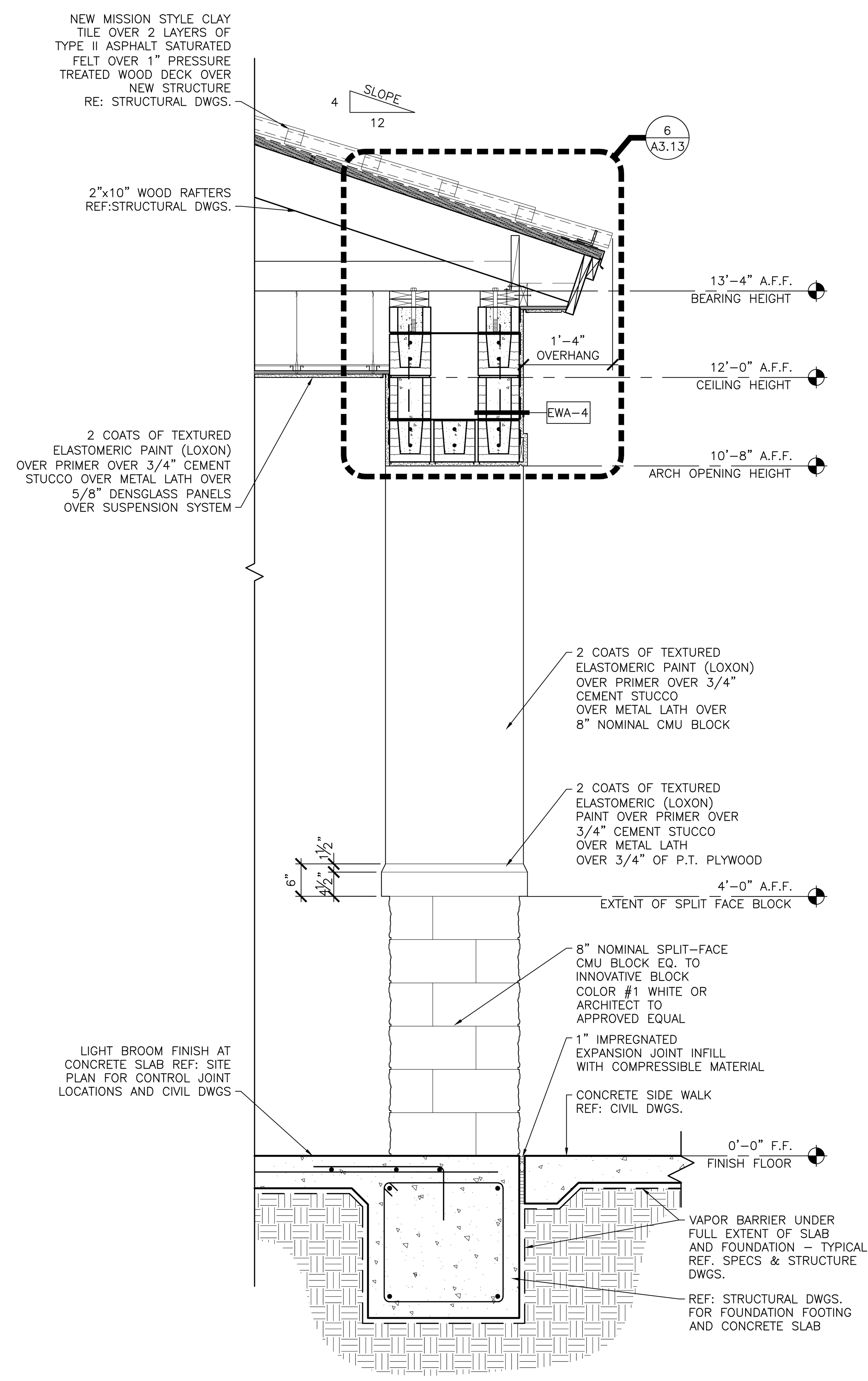
4 PARTIAL SECTION DETAIL

SCALE: 1"=1'-0"   PLAN_DETL_004



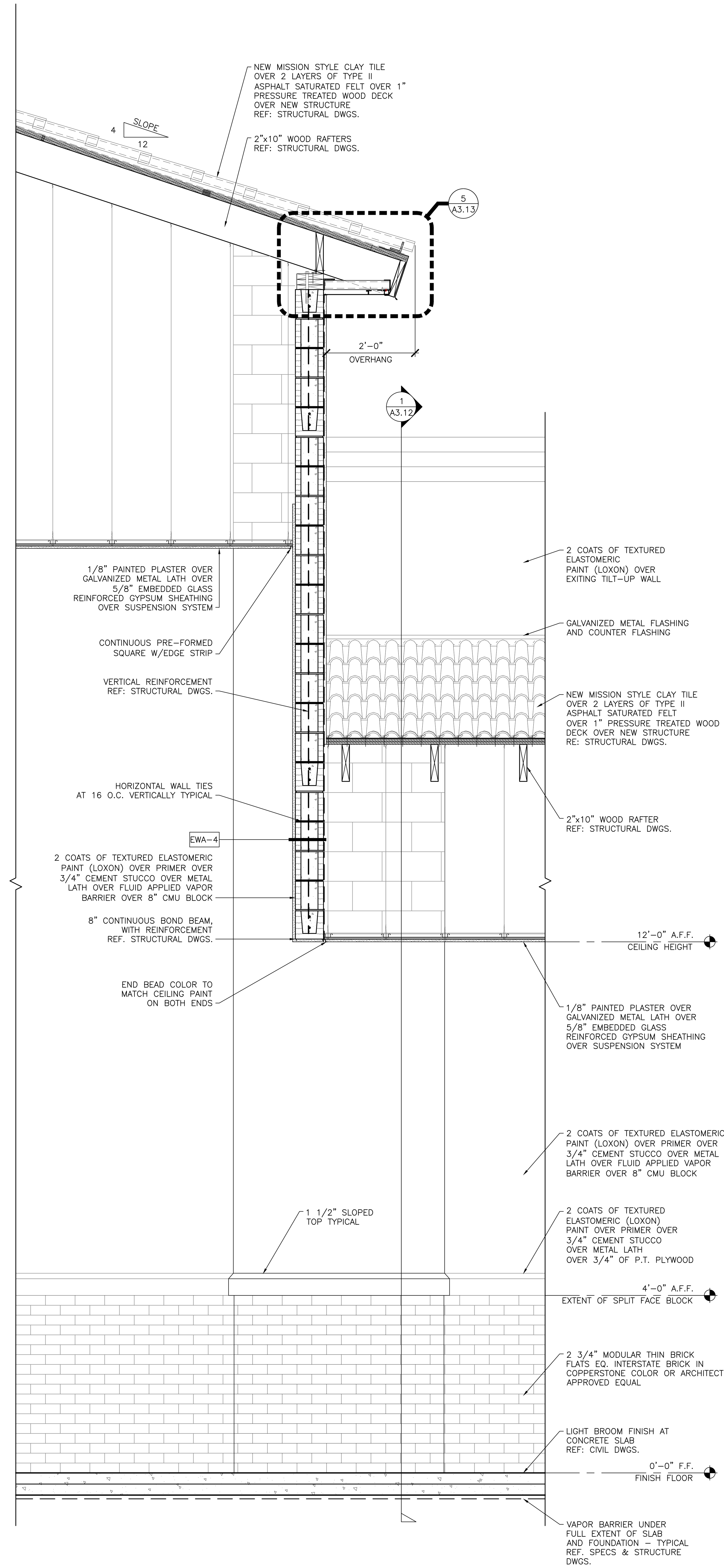
3 CANOPY SECTION DETAIL

SCALE: 1/2" = 1'-0"   CANP_SECT_001



2 WALL SECTION

SCALE: 1 1/2"=1'-0"



1 WALL SECTION

SCALE: 3/4"=1'-0"

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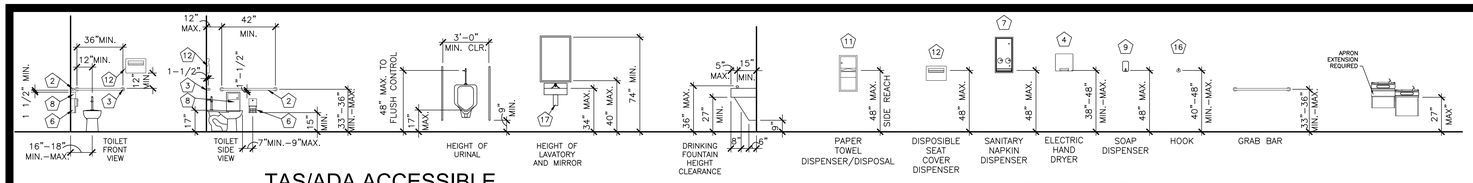
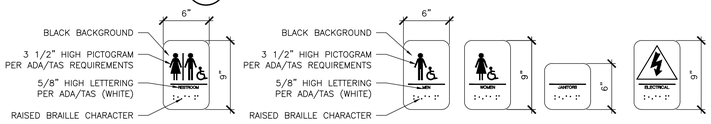
A3.13
WALL SECTIONS AND DETAILS



18 TAS/ADA ACCESSIBLE MOUNTING HEIGHT

SCALE:1/4"=1'-0"

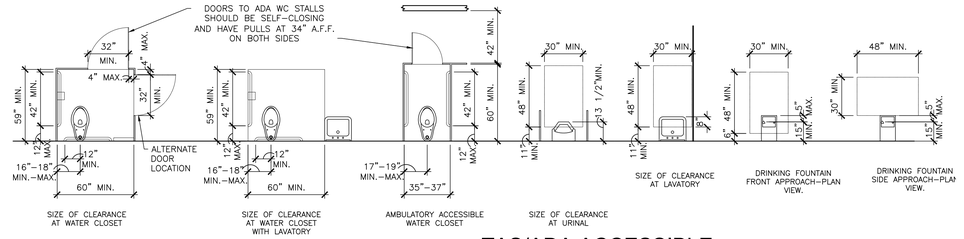


NOTES:

1. GENERAL CONTRACTOR TO COMPLY WITH ALL APPLICABLE ADA/TAS REQUIREMENTS.

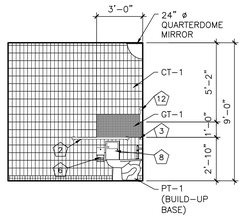
17 TAS/ADA ACCESSIBLE SIGN AGE SCHEDULE

SCALE: 1 1/2"=1'-0"



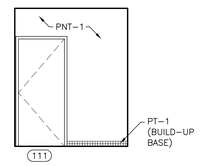
16 TAS/ADA ACCESSIBLE FIXTURE CLEARANCE

SCALE:1/4"=1'-0"



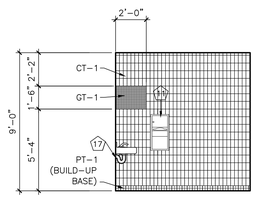
15 WEST ELEVATION RR 111

SCALE:1/4"=1'-0"



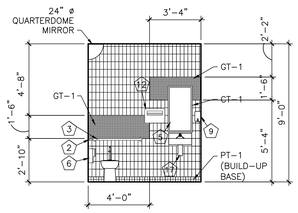
14 SOUTH ELEVATION RR 111

SCALE:1/4"=1'-0"



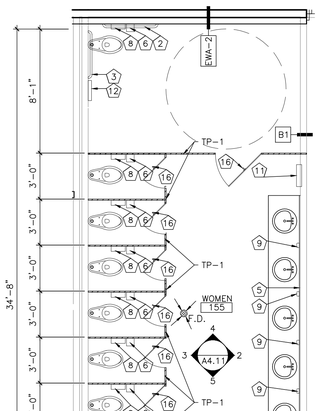
13 EAST ELEVATION RR 111

SCALE:1/4"=1'-0"



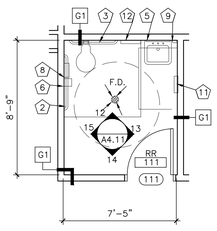
12 NORTH ELEVATION RR 111

SCALE:1/4"=1'-0"



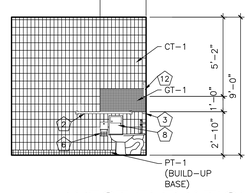
1 ENLARGED FLOOR PLAN

SCALE:1/4"=1'-0"



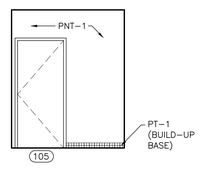
ENLARGED PLAN RR 111

11 SCALE:1/4"=1'-0"



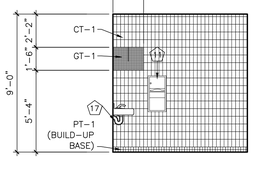
WEST ELEVATION RR 105

10 SCALE:1/4"=1'-0"



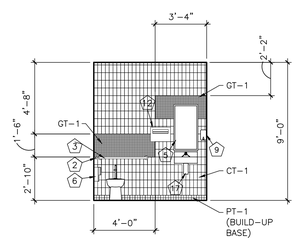
SOUTH ELEVATION RR 105

9 SCALE:1/4"=1'-0"



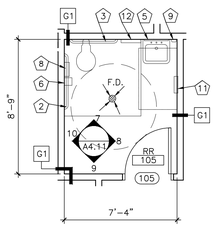
EAST ELEVATION RR 105

8 SCALE:1/4"=1'-0"



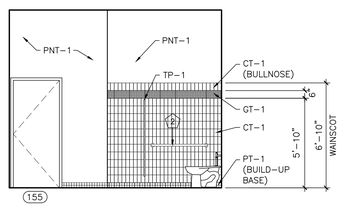
7 NORTH ELEVATION RR 105

SCALE:1/4"=1'-0"



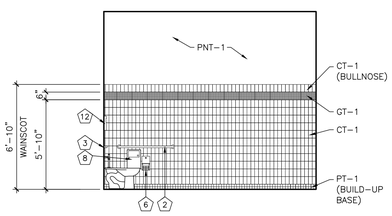
6 ENLARGED PLAN RR 105

SCALE:1/4"=1'-0"



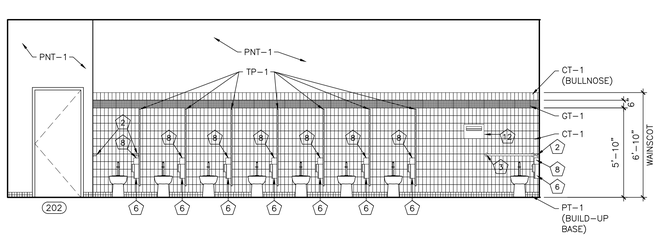
5 SOUTH ELEVATION WOMEN 155

SCALE:1/4"=1'-0"



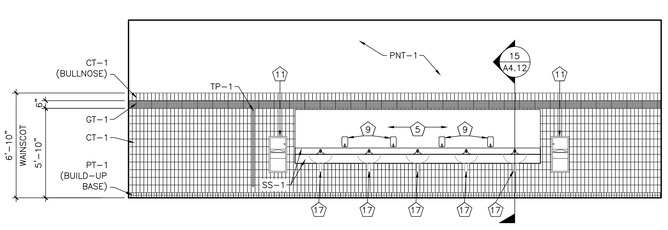
4 NORTH ELEVATION WOMEN 155

SCALE:1/4"=1'-0"



3 WEST ELEVATION- WOMEN 155

SCALE:1/4"=1'-0"



2 EAST ELEVATION- WOMEN 155

SCALE:1/4"=1'-0"

SHEET NOTES

1. GENERAL CONTRACTOR TO COMPLY WITH ALL TAS AND ADA APPLICABLE CODES AND REGULATIONS.
2. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR ALL ACCESSORY PLACEMENTS AND TO INSTALL THEM PER TAS AND ADA ACCESSIBLE MOUNTING AND ACCESSORY SCHEDULE HEIGHTS.
3. ALL TOILET PARTITIONS TO BE FLOOR ANCHORED.
4. URINAL PARTITIONS TO BE WALL MOUNTED.

ACCESSORY SCHEDULE

KEY	ITEM	ADULT	
		STANDARD	HANDICAP (HC)
–	WATER CLOSET (WC)	15" TO TOP OF SEAT	17" TO TOP OF SEAT
–	URINAL (UR)	24" TO TOP OF RIM	17" TO TOP OF RIM
–	LAVATORY (LAV)	34 TO TOP	27" TO BOTTOM OF APRON
1	GRAB BAR (48")	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
2	GRAB BAR (42")	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
3	GRAB BAR (36")	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
4	ELECTRIC HAND DRYER	48" TO CONTROL	38" TO CONTROL
5	FRAMED WALL MOUNTED MIRROR	74" TO TOP	40" TO BOTTOM OF REFLECTIVE SURFACE
6	TISSUE DISPENSER	15" TO CONTROL DEVICE	15" TO CONTROL DEVICE
7	SANITARY NAPKIN DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
8	SANITARY NAPKIN DISPOSAL	19" TO CONTROL DEVICE	19" TO CONTROL DEVICE
9	SURFACE MOUNTED SOAP DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
10	COUNTER MOUNTED SOAP DISPENSER	AT COUNTER	AT COUNTER – 34" MAX.
11	PAPER TOWEL DISPENSER/DISPOSAL	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
12	DISPOSIBLE SEAT COVER DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
13	MOP–HOOK	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
14	ACCESSIBLE SIGNAGE	60" TO CENTER OF SIGN	60" TO CENTER OF SIGN
15	DIAPER CHANGING STATION	27" TO UNDER OF UNFOLDED SURFACE	–
16	CLOTHES/TOWEL HOOK	–	48" MAXIMUM TO CENTER
17	FOAM PIPE INSULATION WRAPPING	ALL EXPOSED LAVATORY PIPING	
18	SHOWER COMPARTMENT SEAT	–	17" MIN 19" MAX TO TOP OF UNFOLDED SURFACE
19	SHOWER CURTAIN AND ROD	76 1/2" TO CENTER OF BAR FOR 72" CURTAIN	–
20	SHOWER HEAD		48"W/O HOSE RE: MEP DWG'S
21	GRAB BAR (18")	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
22	GRAB BAR (24")	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
23	GRAB BAR (60")	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
24	TWO–WALL GRAB BAR	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE

NOTE: NOT ALL ACCESSORIES MAY BE USED.

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION	DATE	APPROVED BY	DESCRIPTION

SEAL

REGISTERED ARCHITECT JOHN M. WARREN 18378 STATE OF TEXAS

EXP 10–31–19

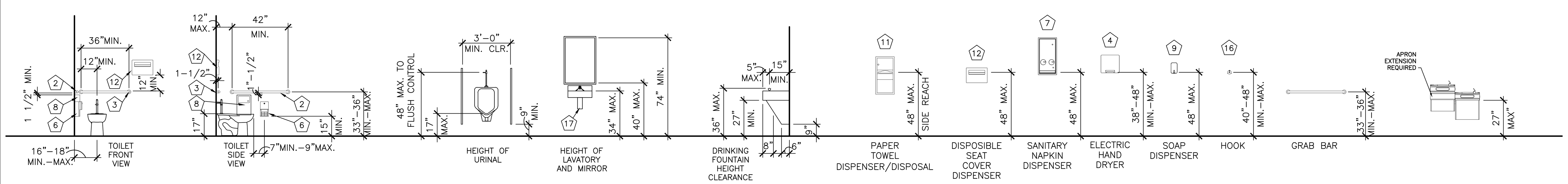
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

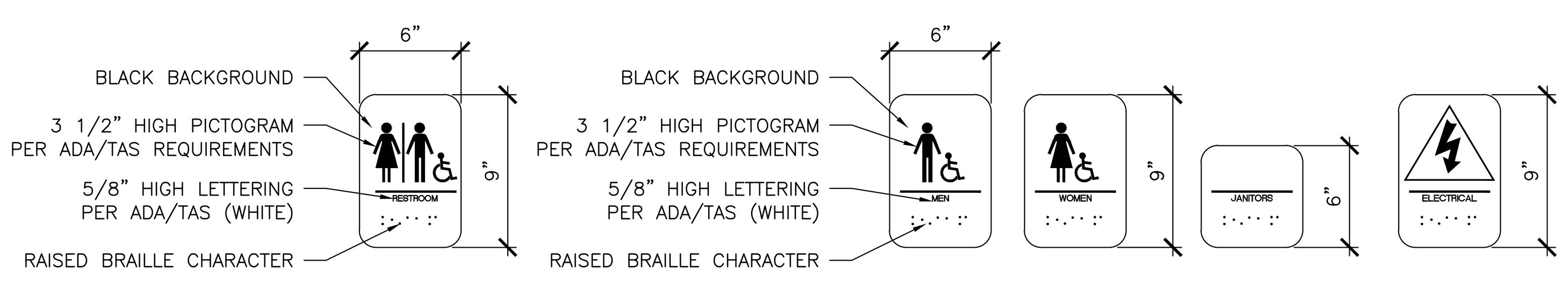
PROJECT 1591801
DATE 05/17/2019
REVISED

A4.11
ENLARGED PLANS



17 TAS/ADA ACCESSIBLE MOUNTING HEIGHT

SCALE:1/4"=1'-0"

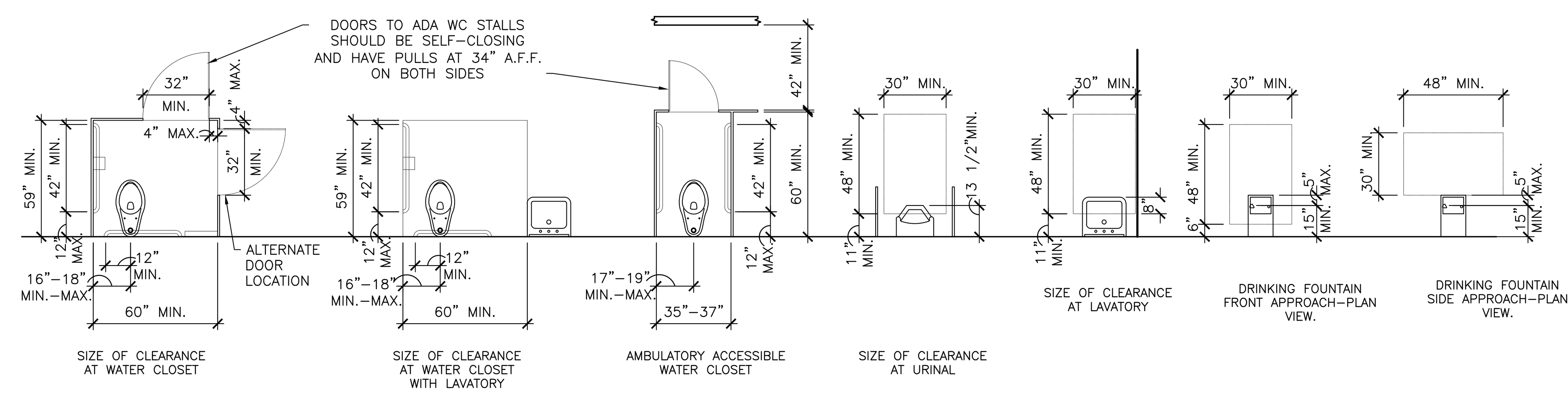


NOTES:

1. GENERAL CONTRACTOR TO COMPLY WITH ALL APPLICABLE ADA/TAS REQUIREMENTS.

16 TAS/ADA ACCESSIBLE SIGN AGE SCHEDULE

SCALE: 1 1/2"=1'-0"



15 TAS/ADA ACCESSIBLE FIXTURE CLEARANCE

SCALE:1/4"=1'-0"

SHEET NOTES

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24	TWO–WALL GRAB BAR	–	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE

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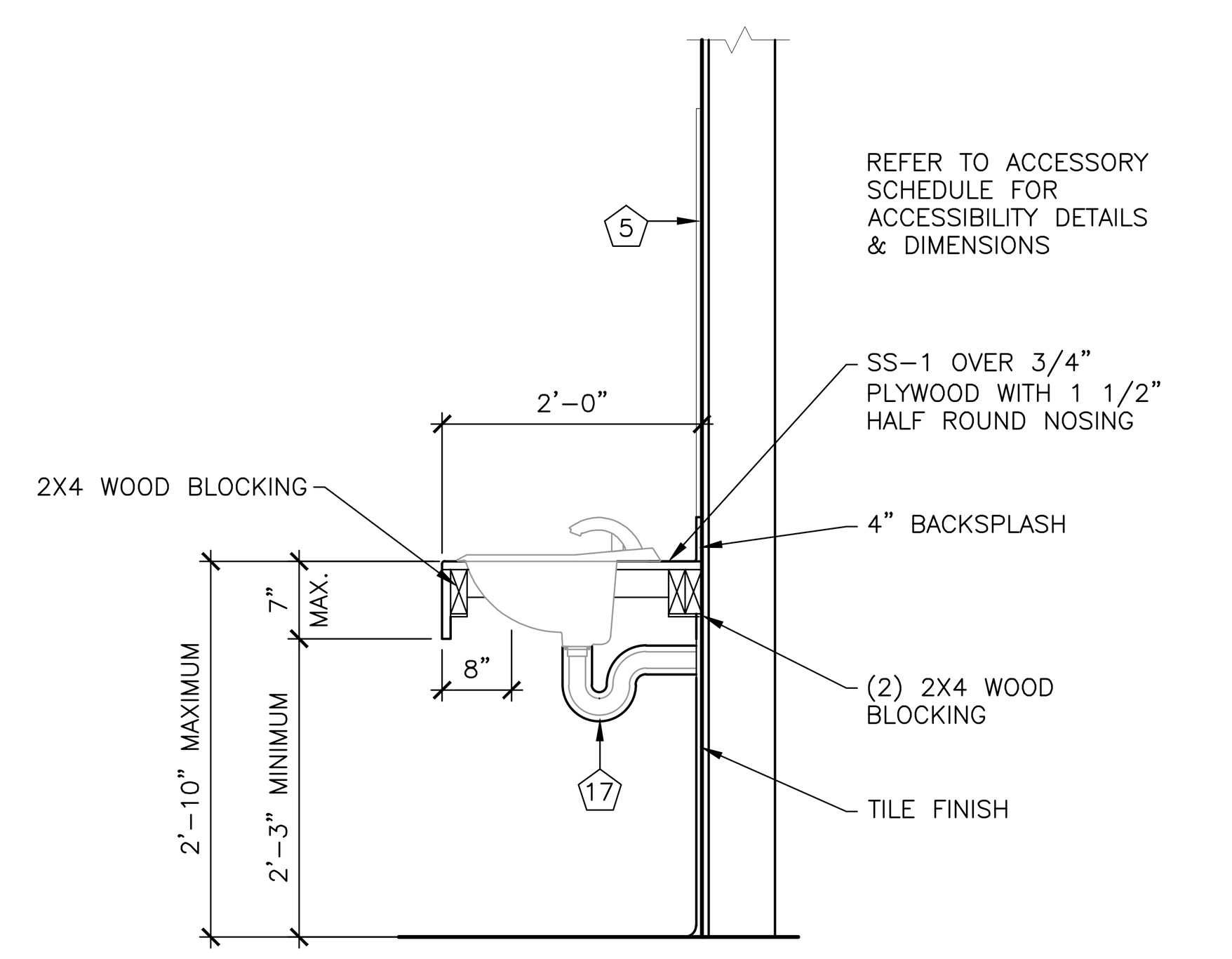
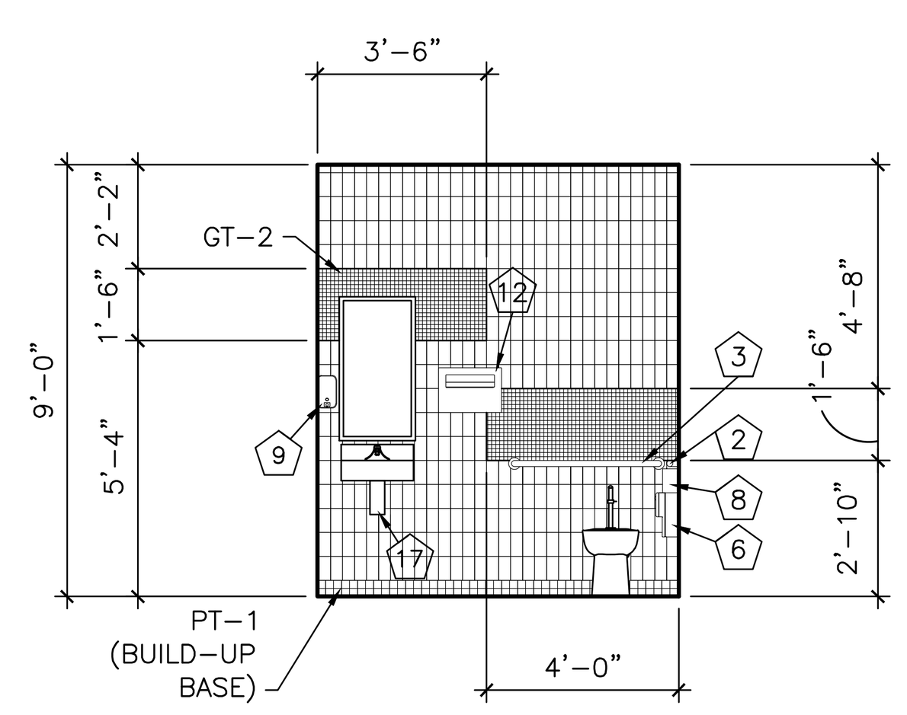


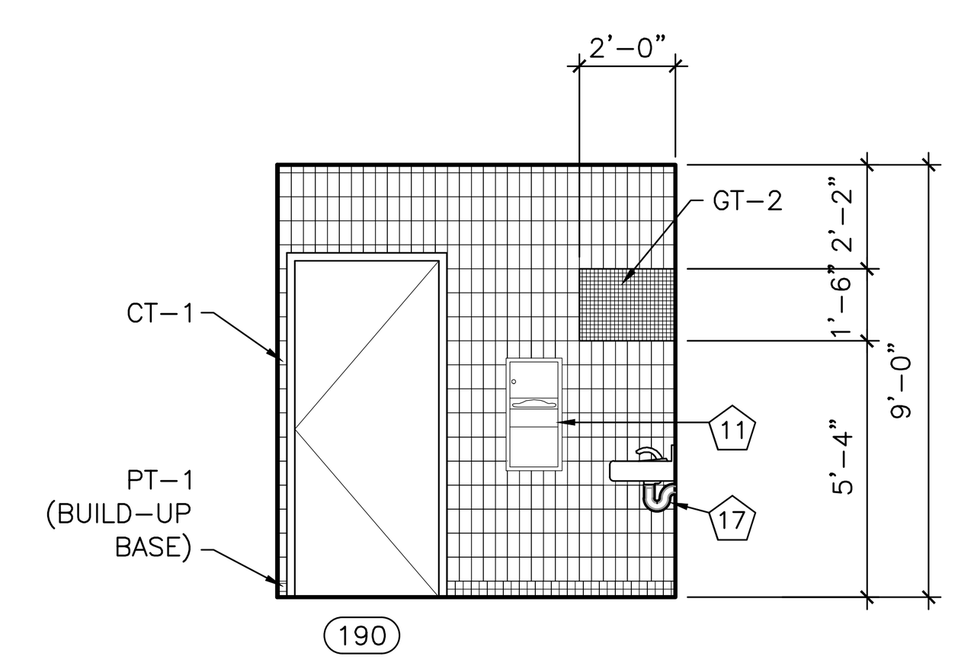
14 LAVATORY COUNTER SECTION

SCALE: 3/4" = 1'-0"



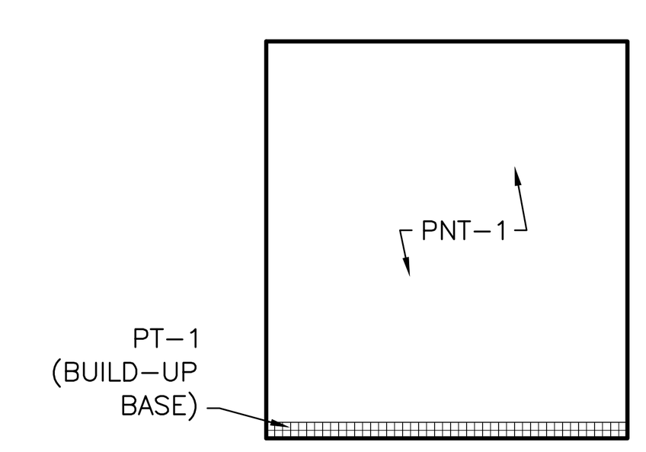
13 WEST ELEVATION RR 190

SCALE:1/4"=1'-0"



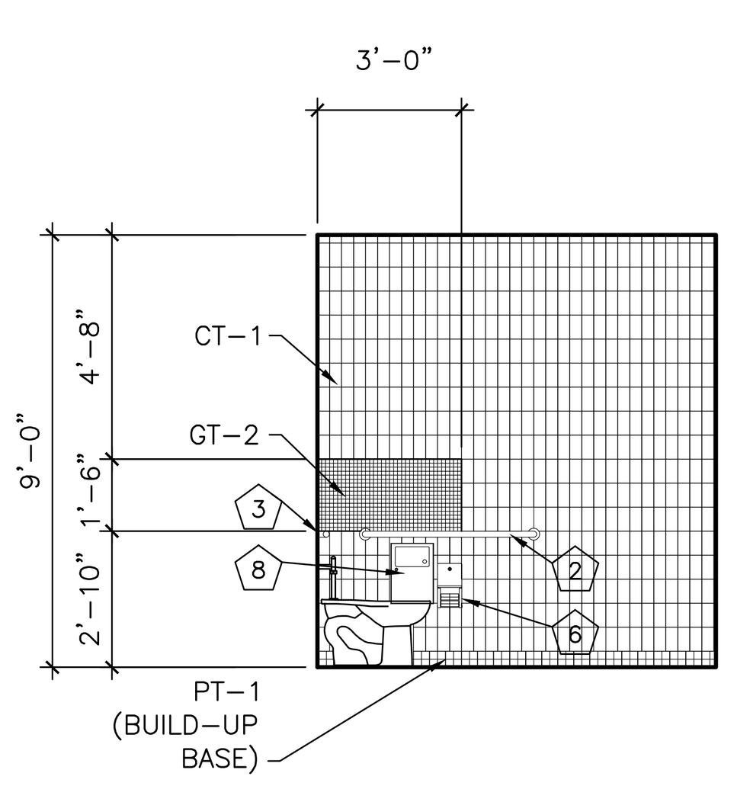
12 SOUTH ELEVATION RR 190

SCALE:1/4"=1'-0"



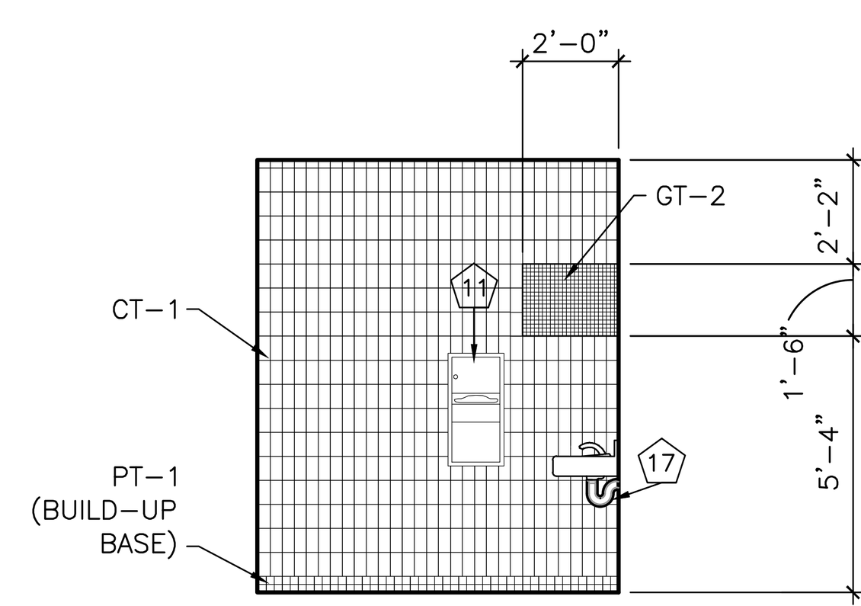
11 EAST ELEVATION RR 190

SCALE:1/4"=1'-0"



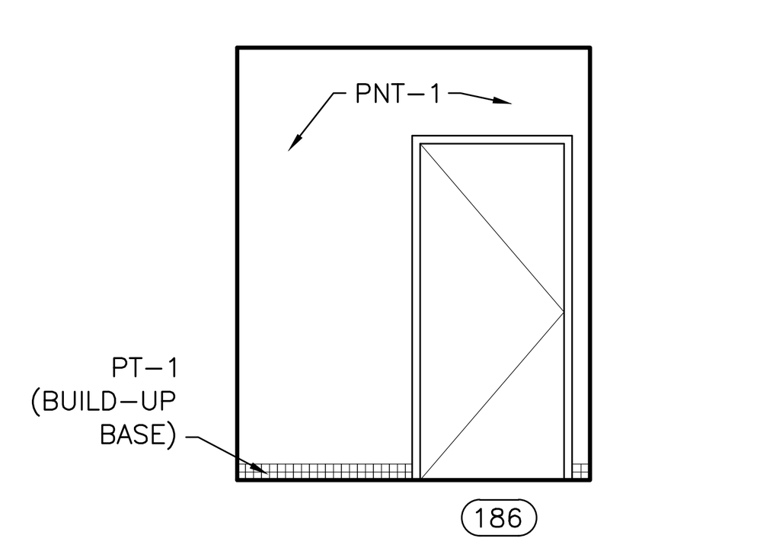
10 NORTH ELEVATION RR 190

SCALE:1/4"=1'-0"



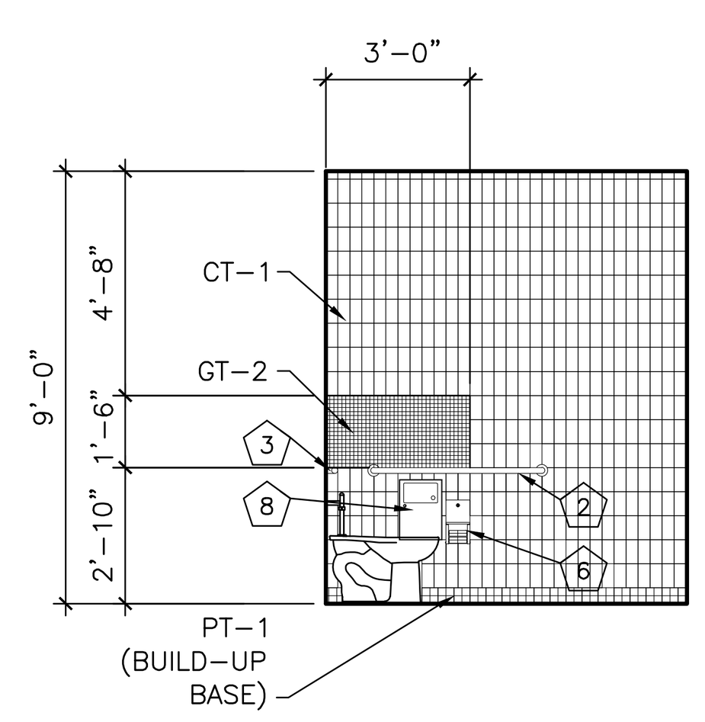
9 WEST ELEVATION RR 186

SCALE:1/4"=1'-0"



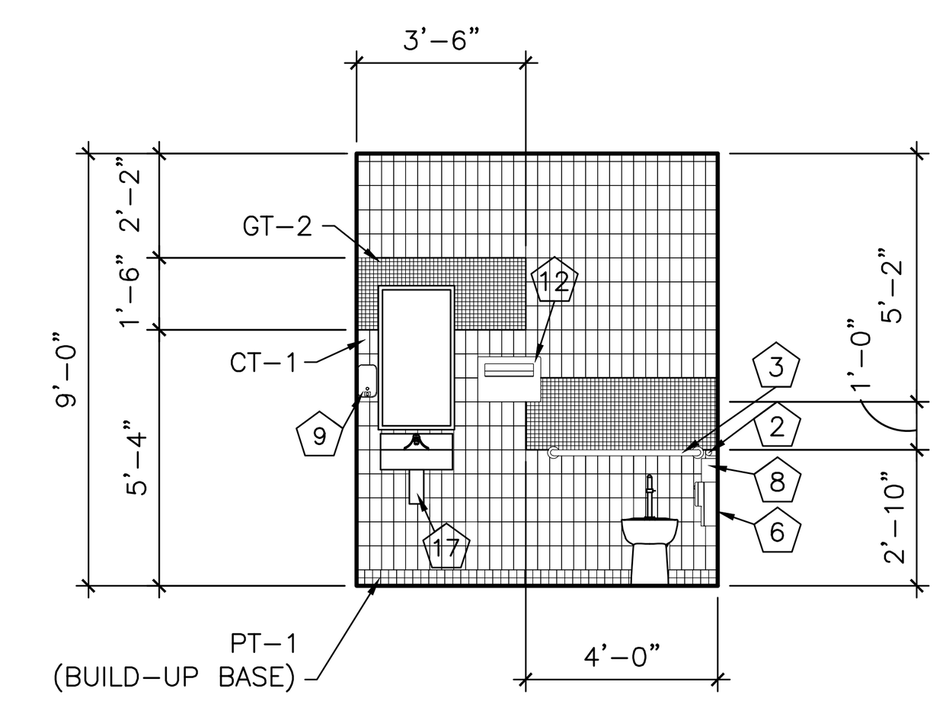
8 SOUTH ELEVATION RR 186

SCALE:1/4"=1'-0"



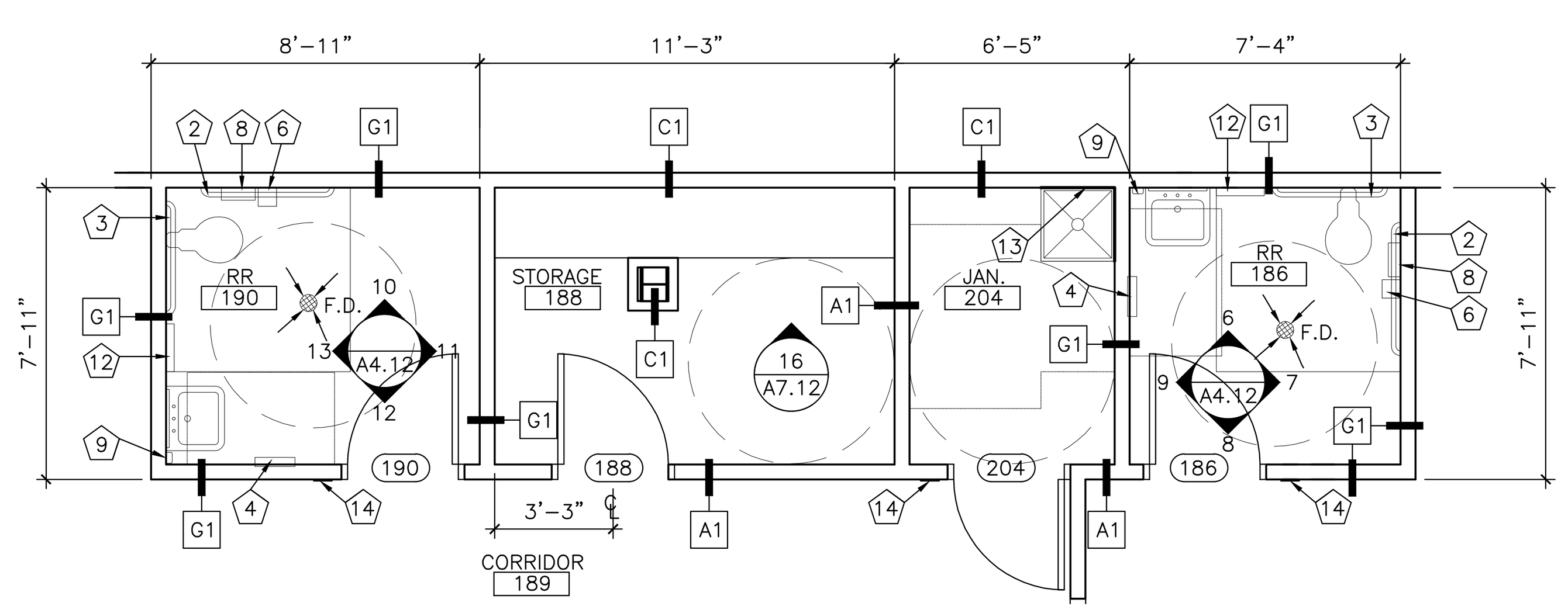
7 EAST ELEVATION RR 186

SCALE:1/4"=1'-0"



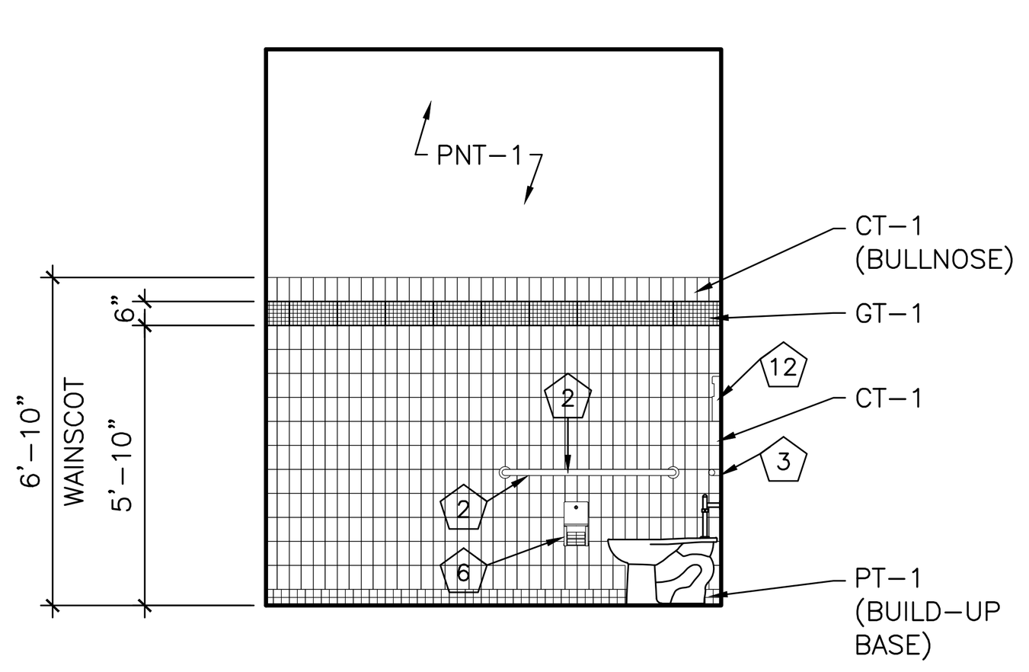
6 NORTH ELEVATION RR 186

SCALE:1/4"=1'-0"



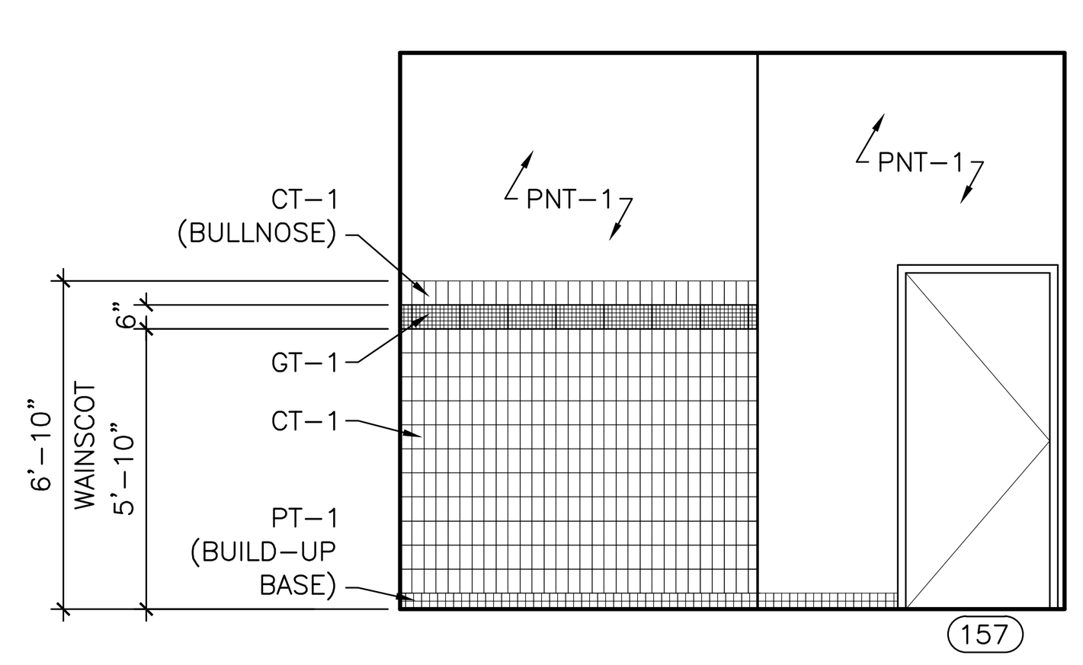
5 ENLARGED FLOOR PLAN

SCALE:1/4"=1'-0"



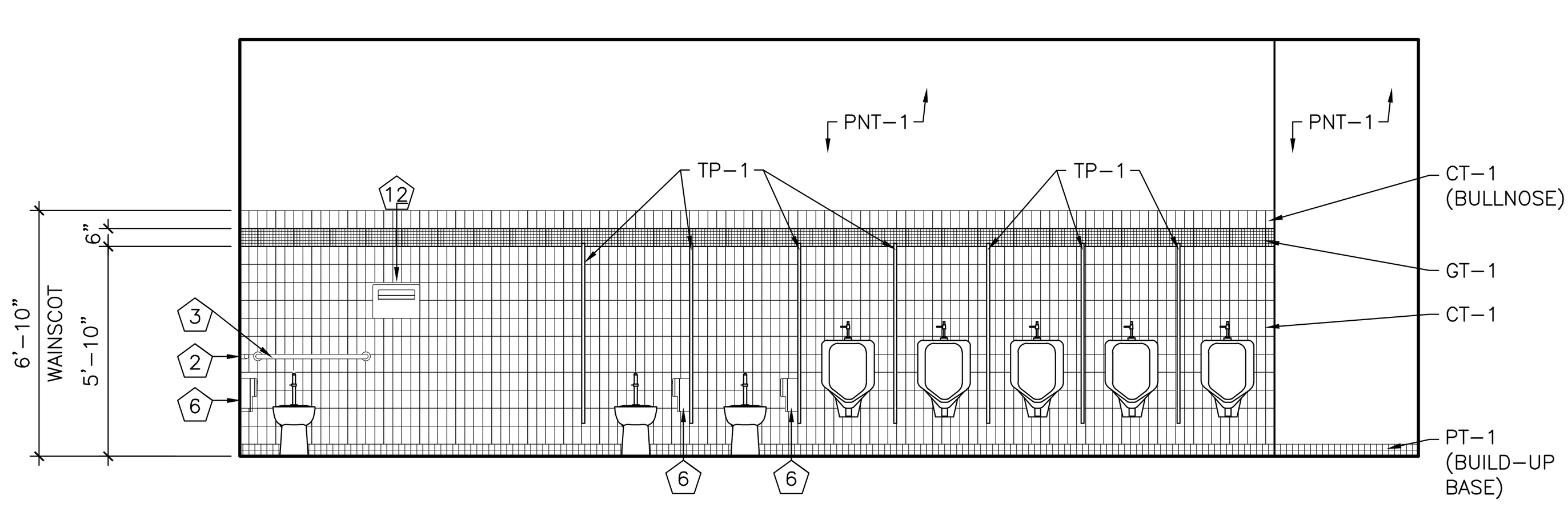
4 SOUTH ELEVATION MEN 157

SCALE:1/4"=1'-0"



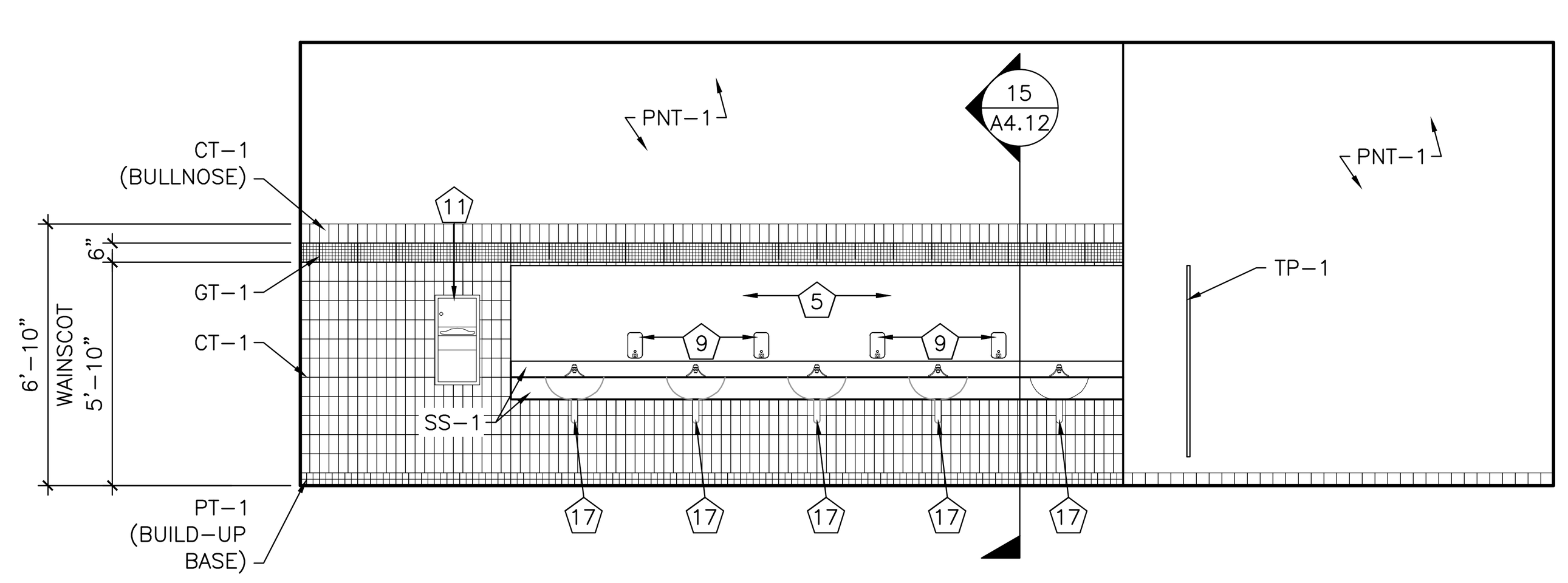
3 NORTH ELEVATION MEN 157

SCALE:1/4"=1'-0"



2 WEST ELEVATION- MEN 157

SCALE:1/4"=1'-0"



1 EAST ELEVATION- MEN 157

SCALE:1/4"=1'-0"

TWG
THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION	DATE	APPROVED BY	DESCRIPTION

SEAL

REGISTERED ARCHITECT STATE OF TEXAS 18378

EXP 10-31-19

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

A4.12

ENLARGED PLANS

THE WARREN GROUP
ARCHITECTS, INC.

1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION	DATE	APPROVED BY	DESCRIPTION

4 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_002

3 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_002

2 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_001

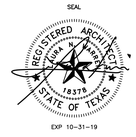
1 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_001

7 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_004

6 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_003

5 PLAN DETAIL
SCALE:1"=1'-0"
PLAN_DETL_003

SEAL



EXP 10-31-19

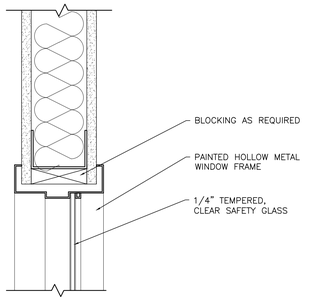
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

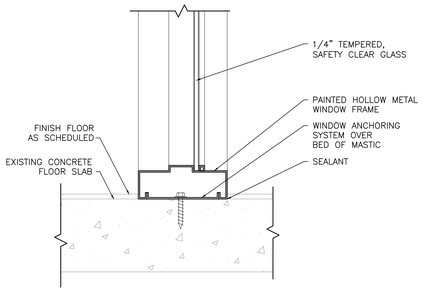
PROJECT	1591801
DATE	05/17/2019
REVISED	

A5.11
DOOR AND WINDOW DETAILS



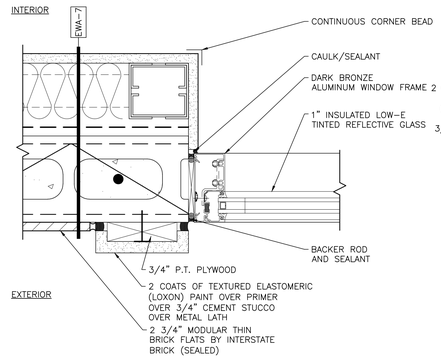
20 INTERIOR WINDOW HEADER/JAMB DETAIL

SCALE: 3"=1'-0" WIND_HEAD_DETL_01



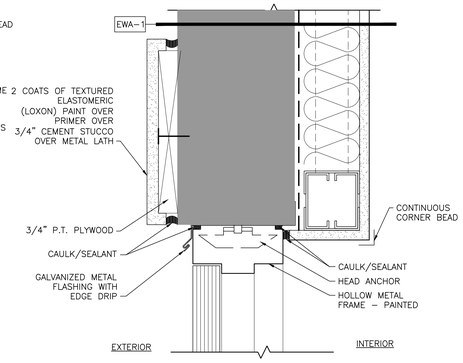
19 INTERIOR WINDOW SILL DETAIL

SCALE: 3"=1'-0" WIND_SILL_DETL_02



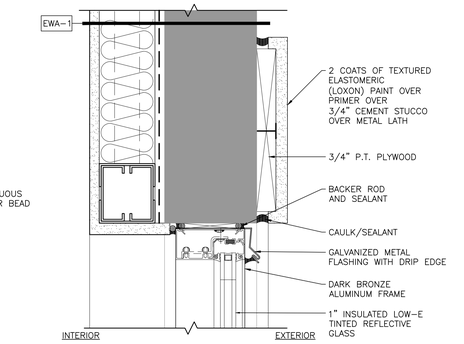
18 ALUMINUM WINDOW JAMB DETAIL

SCALE:3"=1'-0" WIND_JAMB_DETL_04



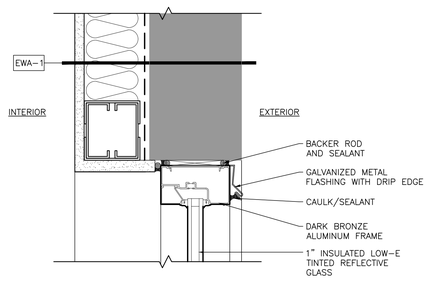
17 HOLLOW METAL DOOR HEAD DETAIL

SCALE: 3"=1'-0" DOOR_HEAD_DETL_03



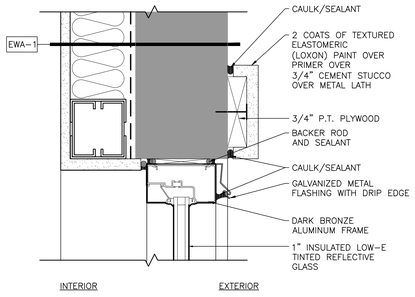
16 ALUMINUM DOOR HEAD DETAIL

SCALE: 3"=1'-0" DOOR_HEAD_DETL_05



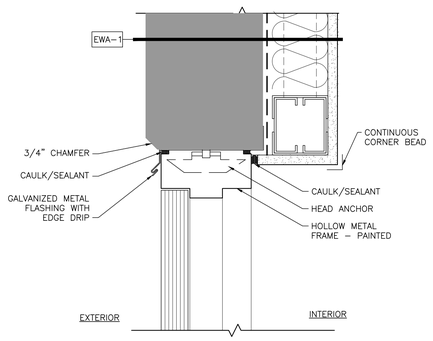
15 ALUMINUM WINDOW HEAD DETAIL

SCALE: 3"=1'-0" WIND_HEAD_DETL_004



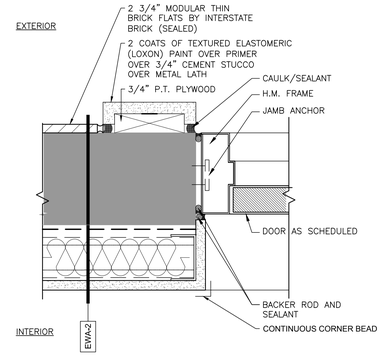
14 WINDOW HEADER DETAIL

SCALE: 3"=1'-0" WIND_HEAD_DETL_03



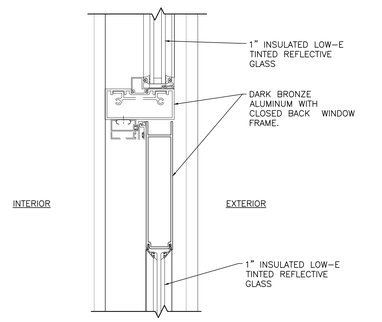
13 HOLLOW METAL DOOR HEAD DETAIL

SCALE: 3"=1'-0" DOOR_HEAD_DETL_001



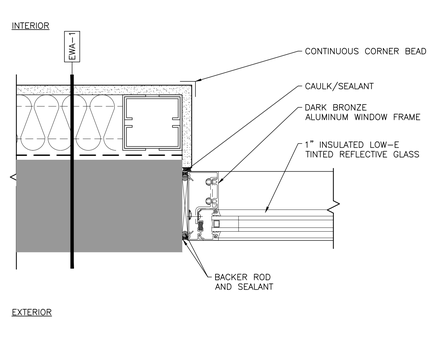
12 DOOR JAMB DETAIL

SCALE: 3"=1'-0" DOOR_JAMB_DETL_011



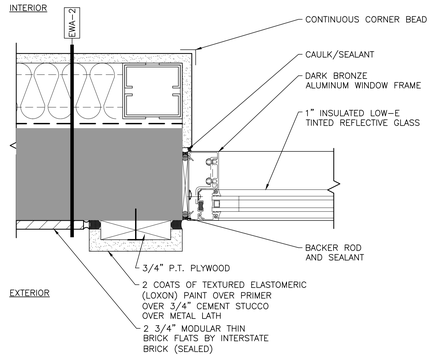
11 DOOR HEAD DETAIL

SCALE:3"=1'-0" DOOR_HEAD_DETL_01



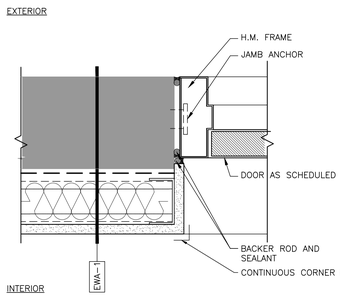
10 ALUMINUM WINDOW JAMB DETAIL

SCALE:3"=1'-0" WIND_JAMB_DETL_03



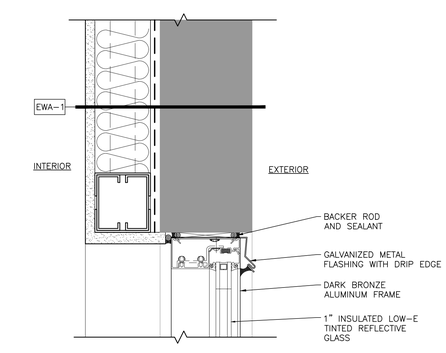
9 ALUMINUM WINDOW JAMB DETAIL

SCALE:3"=1'-0" WIND_JAMB_DETL_04



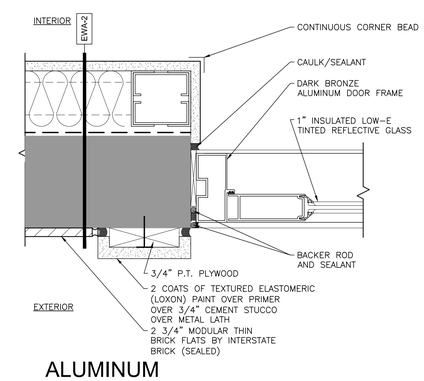
8 DOOR JAMB DETAIL

SCALE: 3"=1'-0" DOOR_JAMB_DETL_001



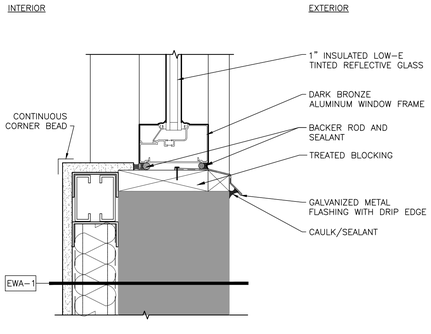
7 ALUMINUM DOOR HEAD DETAIL

SCALE: 3"=1'-0" DOOR_HEAD_DETL_06



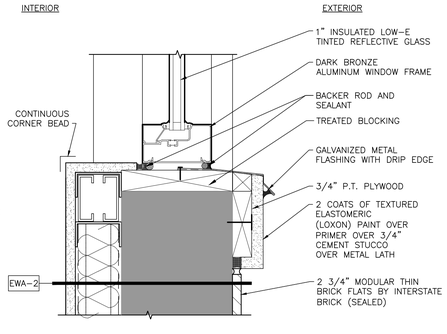
6 ALUMINUM DOOR JAMB DETAIL

SCALE: 3"=1'-0" DOOR_JAMB_DETL_05



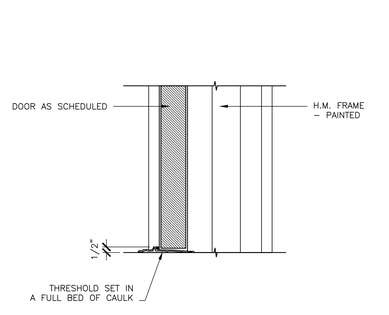
5 ALUMINUM WINDOW SILL DETAIL

SCALE: 3"=1'-0" WIND_SILL_DETL_01



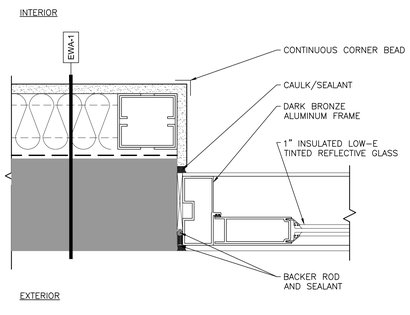
4 WINDOW SILL DETAIL

SCALE: 3"=1'-0" WIND_SILL_DETL_003



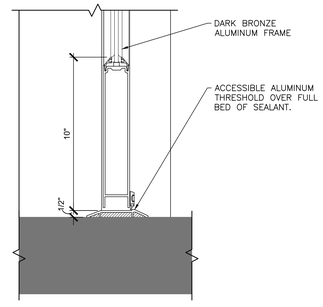
3 DOOR THRESHOLD DETAIL

SCALE: 3"=1'-0" DOOR_THLD_DETL_001



2 ALUMINUM DOOR JAMB DETAIL

SCALE: 3"=1'-0" DOOR_JAMB_DETL_06



1 ALUMINUM DOOR THRESHOLD DETAIL

SCALE: 3" = 1'-0" DOOR_THLD_002

TWG
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REVISION	DATE	APPROVED BY	DESCRIPTION

SEAL

REGISTERED ARCHITECT
18378
STATE OF TEXAS
EXP 10-31-19

PROPOSED

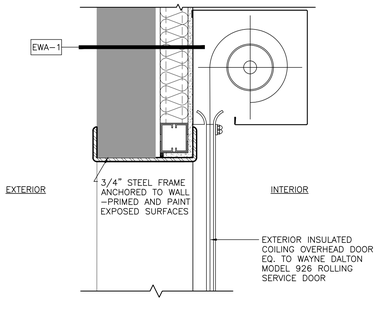
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

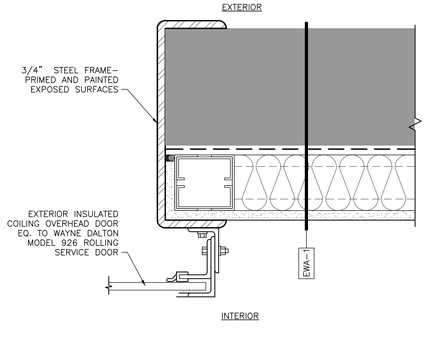
A5.12

DOOR AND WINDOW DETAILS



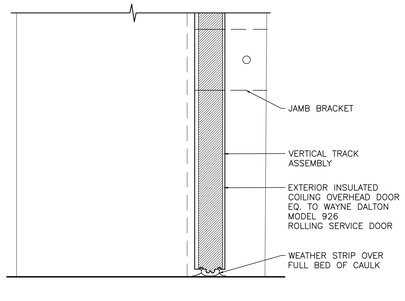
5 OVERHEAD DOOR HEADER DETAIL

SCALE: 1-1/2"=1'-0" DOOR_HEAD_DETL_002



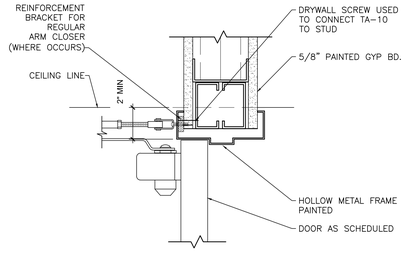
4 DOCK DOOR JAMB DETAIL

SCALE: 3"=1'-0" DOOR_JAMB_DETL_002



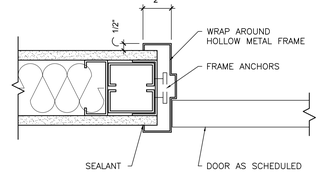
3 OVERHEAD DOOR THRESHOLD DETAIL

SCALE: 3" = 1'-0" DOOR_TRSH_DETL_003



2 INTERIOR DOOR HEAD DETAIL

SCALE: 3"=1'-0" DOOR_HEAD_DETL_04



1 INTERIOR DOOR JAMB DETAIL

SCALE: 3"=1'-0" DOOR_JAMB_DETL_04

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SEAL

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LAURA K. WARREN
18378
STATE OF TEXAS

EXP 10-31-19

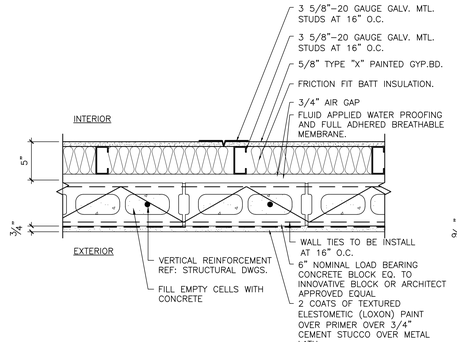
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

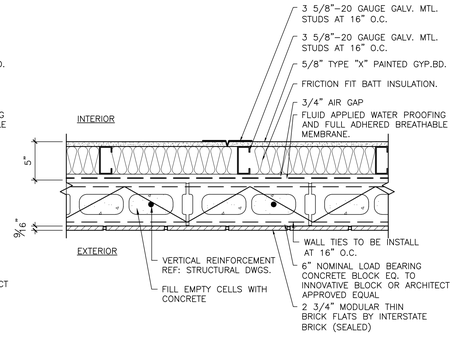
PROJECT	1591801
DATE	05/17/2019
REVISED	

A5.13
DOOR AND WINDOW DETAILS



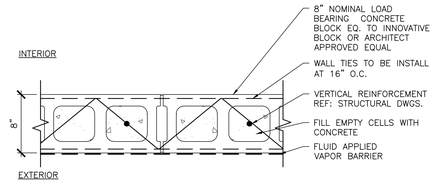
EWA-8 CONC. STUCO OVER 6" CMU BLOCK W/ MTL. STUD FURR.

SCALE: 1 1/2"=1'-0" EWA-8



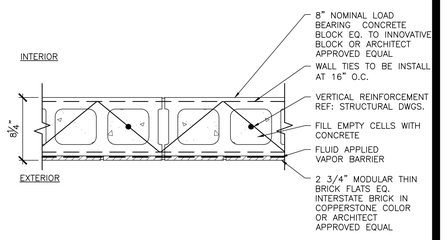
EWA-7 BRICK VENNER OVER 6" CMU BLOCK W/ MTL. STUD FURR.

SCALE: 1 1/2"=1'-0" EWA-7



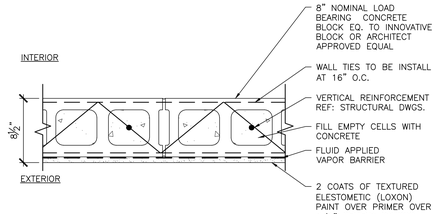
EWA-6 8" CMU

SCALE: 1 1/2"=1'-0" EWA-6.DWG



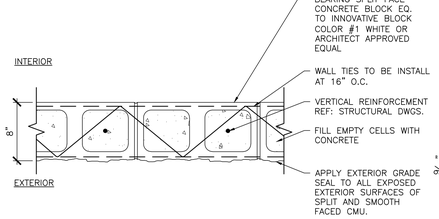
EWA-5 BRICK VENEER OVER 8" CMU

SCALE: 1 1/2"=1'-0" EWA-5.DWG



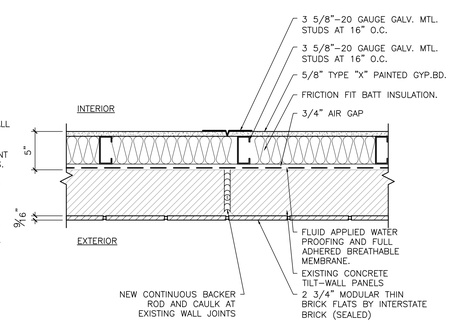
EWA-4 CEMENT STUCCO OVER 8" CMU

SCALE: 1 1/2"=1'-0" EWA-4.DWG



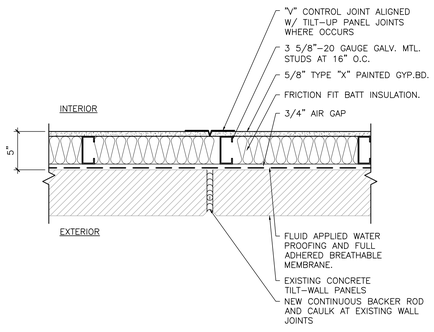
EWA-3 8" SPLIT FACE CMU

SCALE: 1 1/2"=1'-0" EWA-3.DWG



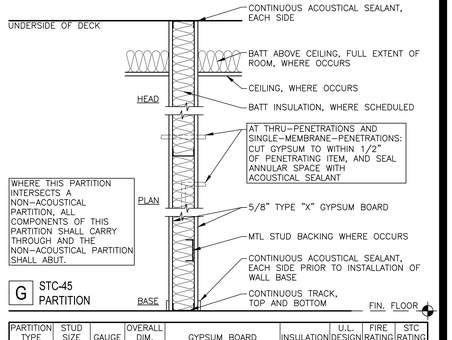
EWA-2 BRICK VENNER OVER EXISTING TILT-WALL W/ MTL. STUD FURR.

SCALE: 1 1/2"=1'-0" EWA-2



EWA-1 EXISTING TILT-WALL W/ MTL. STUD FURRING

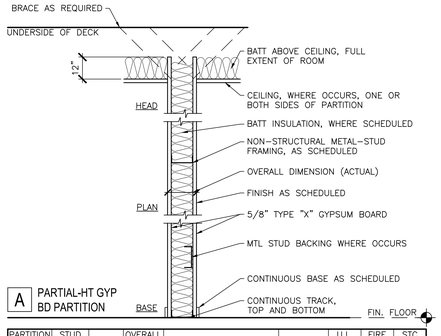
SCALE: 1 1/2"=1'-0" EWA-1



G STC-45 PARTITION

PARTITION TYPE	STUD SIZE	GAUGE	OVERALL DIM.	GYPSUM BOARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATING
G1	3 5/8"	20	4 7/8"	5/8" THICK, TYPE X (EACH SIDE)	3 1/2"	–	–	45

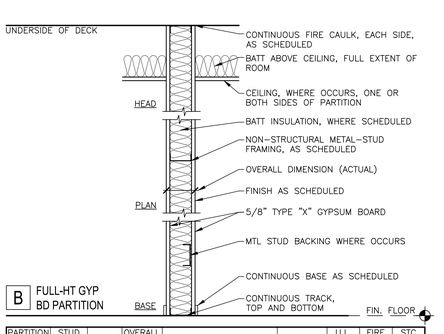
DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; NON–STRUCTURAL COMPOSITE PARTITIONS; VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS



A PARTIAL-HT GYP BD PARTITION

PARTITION TYPE	STUD SIZE	GAUGE	OVERALL DIM.	GYPSUM BOARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATING
A1	3 5/8"	20	4 7/8"	5/8" THICK, TYPE X (EACH SIDE)	3 1/2"	U419	–	–

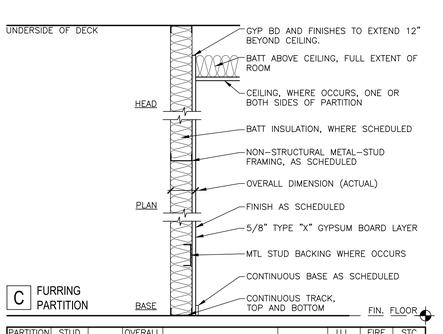
DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; NON–STRUCTURAL COMPOSITE PARTITIONS; VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS



B FULL-HT GYP BD PARTITION

PARTITION TYPE	STUD SIZE	GAUGE	OVERALL DIM.	GYPSUM BOARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATING
B1	3 5/8"	20	4 7/8"	5/8" THICK, TYPE X (EACH SIDE)	3 1/2"	U419	–	–
B2	3 5/8"	20	4 7/8"	5/8" THICK, TYPE X (EACH SIDE)	3 1/2"	U419	1 HR	45

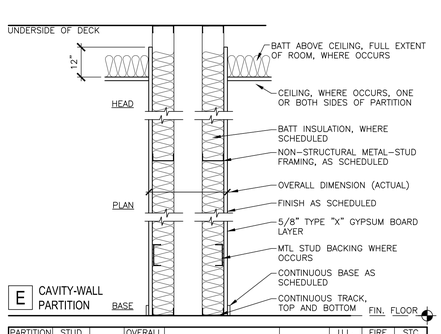
DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; NON–STRUCTURAL COMPOSITE PARTITIONS; VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS



C FURRING PARTITION

PARTITION TYPE	STUD SIZE	GAUGE	OVERALL DIM.	GYPSUM BOARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATING
C1	2 1/2"	20	3 1/8"	5/8" THICK, TYPE X (EXPOSED SIDE)	–	–	–	–
C2	3 5/8"	20	4 1/4"	5/8" THICK, TYPE X (EXPOSED SIDE)	3 1/2"			

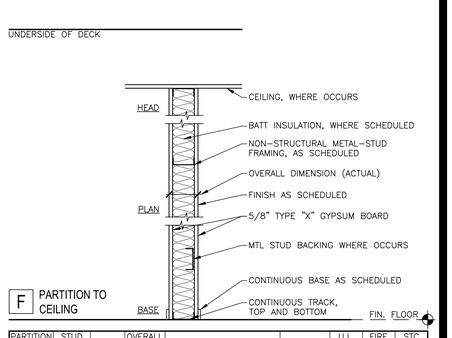
DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; NON–STRUCTURAL COMPOSITE PARTITIONS; VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS



E CAVITY-WALL PARTITION

PARTITION TYPE	STUD SIZE	GAUGE	OVERALL DIM.	GYPSUM BOARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATING
E1	3 5/8"	20	SEE PLAN	5/8" THICK, TYPE X (EACH EXPOSED SIDE)	3 1/2"	–	–	–

DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS



F PARTITION TO CEILING

PARTITION TYPE	STUD SIZE	GAUGE	OVERALL DIM.	GYPSUM BOARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATING
F1	3 5/8"	20	4 7/8"	5/8" THICK, TYPE X (EACH SIDE)	3 1/2"	–	–	–

DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS

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871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

A6.01
WALL TYPES

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST		
101	LOBBY	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
102	RECEPTION	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
103	OFFICE TBD	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
104	FLOATER HR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
105	RR	PT-1; GRT-2	PT-1; GRT-2	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
106	COPY/BREAK	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
107	FILE STORAGE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4	
108	OFFICE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
109	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
110	LAB	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
111	RR	PT-1; GRT-2	PT-1; GRT-2	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
112	GROUP THERAPY	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-3	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
113	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
114	OFFICE	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
115	OFFICE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
116	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
117	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
118	IDF	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
119	OFFICE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
120	MAINTENANCE	RB-1	CONC-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	EXPOSED; PNT-5	
121	MAIL ROOM	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
122	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
123	BREAK ROOM	RB-1	LVT-1, LVT-2, LVT-5	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
124	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-3	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4,	
125	MEETING	RB-1	LVT-1, LVT-2, LVT-3, LVT-4	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
126	STORAGE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
127	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
128	CORRIDOR	RB-1	LVT-2, LVT-4	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-3	ACG-1, ACT-1	
129	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
130	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
131	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
132	MANAGER	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
133	CORRIDOR	RB-1	LVT-2, LVT-4	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
134	OPEN AREA	RB-1	LVT-2, LVT-4	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-3	ACG-1, ACT-1	
135	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
136	STORAGE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4	
137	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-3	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
138	FLOATER	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
139	FLOATER	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
140	IDD CONFERENCE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
141	CIS/IDD	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
142	ASST	RB-1	LVT-1	GYP.BD.-1; PNT-1	GYP.BD.-1; PNT-3	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-3	ACG-1, ACT-1	
143	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
144	TEST	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
145	CIS/IDD	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
146	INTAKE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
147	INTAKE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
148	CONTRACT SPECIALIST	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
149	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
150	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
151	OFFICE TBD	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
152	FLOATER	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
153	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
154	VENDING MACHINE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4	
155	WOMEN	PT-1; GRT-2	PT-1; GRT-2	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2; PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
156	JANITOR	PT-1; GRT-2	PT-1; GRT-2	GYP.BD.-2, PNT-1	GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-2	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
157	MEN	PT-1; GRT-2	PT-1; GRT-2	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2; PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-1,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
158	TRAINING ROOM	RB-1	CPT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
159	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
160	OPEN AREA	RB-1	LVT-2, LVT-3	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
161	STO	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4	
162	CORRIDOR	RB-1	LVT-2, LVT-3	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-3	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
163	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
164	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
165	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
166	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
167	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
168	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
169	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
170	OPEN AREA	RB-1	LVT-2, LVT-4	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
171	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
172	OPEN AREA	RB-1	LVT-2, LVT-3	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
173	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
174	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
175	FLOATER	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
176	FLOATER MNGR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
177	CONFERENCE ROOM	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
178	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
179	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
180	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
181	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
182	SUPERVISOR	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
183	VESTIBULE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
184	ELECTRICAL	RB-1	CONC-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	EXPOSED	
185	LOBBY	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-4, ACG-1, ACT-1	

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST		
186	RR	PT-1; GRT-2	PT-1; GRT-2	CT-1,GT-2,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-2,GRT-1, GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-1	CT-1,GT-2,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
187	RECEPTION	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
188	STORAGE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4	
189	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-3	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
190	RR	PT-1; GRT-2	PT-1; GRT-2	CT-1,GT-2,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2; PNT-1	CT-1,GT-2,GRT-1, GYP.BD.-2, PNT-1	CT-1,GT-2,GRT-1, GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
191	BREAK	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-3	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
192	COUNSELOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	ACG-1, ACT-1	
193	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
194	PSYCHIATRIST	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
195	GROUP	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-3	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
196	SHELL	–	CONC-2	–	–	–	–	–	
197	TENANT C –NOT USED	–	CONC-2	–	–	–	–	–	
198	TENANT B –NOT USED	–	CONC-2	–	–	–	–	–	
199	TENANT A –NOT USED	–	CONC-2	–	–	–	–	–	
200	CORRIDOR	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4, ACG-1, ACT-1	
201	PIPE ROOM	–	CONC-2	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	EXPOSED	
202	LACTATION ROOM	PT-1; GRT-2	PT-1; GRT-2	GYP.BD.-2, PNT-1	GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
203	JANITOR	PT-1; GRT-2	PT-1; GRT-2	GYP.BD.-2, PNT-1	GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
204	JANITOR	PT-1; GRT-2	PT-1; GRT-2	GYP.BD.-2, PNT-1	GYP.BD.-2; PNT-1	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-1	GYP.BD.-2, PNT-4	
205	FLOATER	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-2	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
206	FLOATER	RB-1	LVT-1	GYP.BD.-1, PNT-2	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	ACG-1, ACT-1	
207	STORAGE	RB-1	LVT-1	GYP.BD.-1, PNT-1	GYP.BD.-1; PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-1	GYP.BD.-1, PNT-4	

GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS OTHERWISE NOTED.
2. ALL WALL FINISH SURFACES TO HAVE SMOOTH FINISH – NO TEXTURE.
3. ALL WALLS WITH NEW FINISHES TO RECEIVE ONE PRIMER COAT AND TWO FINISH COATS OF NEW PAINT FINISH. REFER SPECIFICATIONS.
4. WOMENS RR & MENS RR ALL WALLS TO BE MOISTURE RESISTANT GYPSUM BOARD. REFER SCHEDULE FOR APPLIED FINISHES.
5. REFER TO SHEET A1.41 FOR FLOOR PATTERN PLAN.
6. REFER TO SHEET A1.42 FOR WALL ACCENT PAINT PLANS.
7. REFER TO SHEET A4.11 FOR RESTROOM WALL TILE PATTERNS.

03 35 00 CONCRETE FINISHING

CONC-1
SEALED

CONC-2
EXPOSED

09 20 00 PLASTER & GYPSUM BOARD

GYP-1
STANDARD

GYP-2
MOISTURE RESISTANT

09 30 00 TILING

CT-1
MANUFACTURER: DALTILE
LINE/BRAND: RITTENHOUSE SQUARE
COLOR: K101 WHITE
FINISH: GLOSSY
SIZE: 3"X6"

GT-1
MANUFACTURER: DALTILE
LINE/BRAND: COLORWAVE
COLOR: CW27 WINTER BLUES
SIZE: 1"X1"

GT-2
MANUFACTURER: AMERICAN OLEAN
LINE/BRAND: SERENTINA
COLOR: ZEN SA95
SIZE: VARIES
PATTERN: BLOCK RANDOM

GRT-1
MANUFACTURER: MAPEI
COLOR: AVALANCHE

GRT-2
MANUFACTURER: MAPEI
COLOR: PEWTER

09 50 00 CEILINGS

ACG-1
REFER SPECIFICATIONS
SECTION 09 51 00

ACT-1
REFER SPECIFICATIONS
SECTION 09 51 13

09 60 00 FLOORING

PT-1
MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D200– DESERT GRAY SPECKLE
SIZE: 2"X2" WITH BUILD-UP BASE

CPT-1
MANUFACTURER: INTERFACE
STYLE: 13940MC00 NATURALLY WEATHERED
COLOR: 106025 WROUGHT IRON
SIZE: PLANK

LVT-1
MANUFACTURER: INTERFACE
LINE/BRAND: STUDIO SET
COLOR: A00705 TITANIUM
PRODUCT #: A007
SIZE: 25CMx1M

LVT-2
MANUFACTURER: INTERFACE
LINE/BRAND: STUDIO SET
COLOR: A00706 MUSHROOM
PRODUCT #: A007
SIZE: 25CMx1M

LVT-3
MANUFACTURER: INTERFACE
LINE/BRAND: STUDIO SET
COLOR: A00707 LIME
PRODUCT #: A007
SIZE: 25CMx1M

LVT-4
MANUFACTURER: INTERFACE
LINE/BRAND: STUDIO SET
COLOR: A00709 OCEAN
PRODUCT #: A007
SIZE: 25CMx1M

LVT-5
MANUFACTURER: INTERFACE
LINE/BRAND: STUDIO SET
COLOR: A00710 POPPY
PRODUCT #: A007
SIZE: 25CMx1M

RB-1
MANUFACTURER: JOHNSONITE
COLOR: 32 PEBBLE
SIZE: 4" COVE

09 90 00 PAINTING AND COATING

PNT-1
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7042 SHOJI WHITE
SHEEN: EGGSHELL

PNT-2
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7642 PAVESTONE
SHEEN: EGGSHELL

PNT-3
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9058 SECRET COVE
SHEEN: EGGSHELL

PNT-4
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7757 HIGH REFLECTIVE WHITE
SHEEN: FLAT

PNT-5
MANUFACTURER: SHERWIN WILLIAMS
COLOR: DRYFALL WHITE

PNT-6 (EXTERIOR)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9166 DRIFT OF MIST
LOXON–ELASTOMERIC MASONRY PAINT

PNT-7
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7675 SEALSKIN
SHEEN: ENAMEL

10 20 00 INTERIOR SPECIALTIES

FEC-1
5 LBS. LOADED STREAM FIRE EXTINGUISHER WITH RECESSED CABINET

TP-1
MANUFACTURER: SCRANTON PRODUCTS
LINE: HINY HIDERS
COLOR: SANDCASTLE ORANGE PEEL

12 30 00 CASEWORK

PL-1 (HORIZONTAL)
MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: FOLKSTONE 927–58
FINISH: MATTE

PL-2 (VERTICAL)
MANUFACTURER: WILSONART
LINE: PLASTIC
COLOR: ASIAN NIGHT 7949K–18
FINISH: LINEARITY

PL-3
MANUFACTURER: WILSONART
LINE: PLASTIC
COLOR: BLACK 1595–60
FINISH: MATTE

PL-4
MANUFACTURER: WILSONART
LINE: STANDARD LAMINATE
COLOR: WALLABY D439–60
FINISH: MATTE

SS-1
MANUFACTURER: LG HAUSYS
LINE: HI–MACS
COLOR: 5029 IVORY WHITE

SS-2
MANUFACTURER: LG HAUSYS
LINE: HI–MACS
COLOR: M503 FERRARA

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION | DATE | APPROVED BY | DESCRIPTION

SEAL

REGISTERED ARCHITECT
CARLOS M. WARREN
18378
STATE OF TEXAS

EXP 10-31-19

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

A6.11
ROOM FINISH SCHEDULE

DOOR SCHEDULE

OPENING No.	LOCATION TO	SWING	DOOR FIRE RATING	DOOR TYPE	DOOR FINISH	DOOR SIZE	DOOR ELEV.	FRAME TYPE	FRAME FINISH	FRAME ELEV.	REMARKS (TO LH / RH / LHR / RHR LOCATION)
101	EXTERIOR TO LOBBY 101	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 8'-10"	B	ALUM.	DARK BRONZE		
103	OPEN AREA 134 TO OFFICE TBD 103	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
104A	LOBBY 101 TO FLOATER HR 104	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
104B	MEETING 125 TO FLOATER HR 104	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
105	LOBBY 101 TO RR 105	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
106	CORRIDOR 109 TO COPY/BREAK 106	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
107	CORRIDOR 109 TO FILE STORAGE 107	DOUBLE	–	PLASTIC LAMINATE	PL-4	(2) 2'-0" X 7'-0"	J	H.MTL.	PNT-1		
108	CORRIDOR 109 TO OFFICE 108	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
109A	LOBBY 101 TO CORRIDOR 109	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
109B	EXTERIOR TO CORRIDOR 109	LHR	–	HOLLOW METAL	PNT-7	3'-0" X 8'-0"	K	H.MTL.	PNT-7		
110	CORRIDOR 109 TO LAB 110	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
111	CORRIDOR 109 TO RR 111	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
112	CORRIDOR 109 TO GROUP THERAPY 112	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
113	CORRIDOR 113 TO CORRIDOR 116	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
114	CORRIDOR 109 TO OFFICE 114	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
115	CORRIDOR 109 TO OFFICE 115	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
117	EXTERIOR TO CORRIDOR 117	EXST. TO REMAIN	–	EXISTING TO REMAIN	PNT-7	EXISTING TO REMAIN	–	EXST. TO REMAIN	PNT-7		
118	CORRIDOR 117 TO IDF 118	LH	1 HR.	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
119	CORRIDOR 116 TO OFFICE 119	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
120A	EXTERIOR TO MAINTENANCE 120	OVERHEAD	–	–	–	10'-0" X 12'-0"	–	–	–		REF:SPECS
120B	CORRIDOR 116 TO MAINTENANCE 120	DOUBLE	–	HOLLOW METAL	PNT-1	(2) 3'-0" X 7'-0"	E	H.MTL.	PNT-1		
121	CORRIDOR 116 TO MAIL ROOM 121	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
122	CORRIDOR 122 TO CORRIDOR 149	DOUBLE	–	HOLLOW METAL	PNT-1	(2) 3'-0" X 7'-0"	F	H.MTL.	PNT-1		
123	CORRIDOR 122 TO BREAK ROOM 123	DOUBLE	–	HOLLOW METAL	PNT-1	(2) 3'-0" X 7'-0"	G	H.MTL	PNT-1		
124	CORRIDOR 122 TO CORRIDOR 124	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 8'-0"	H	H.MTL.	PNT-1		
125	CORRIDOR 116 TO MEETING 125	RHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
126A	MEETING 125 TO STORAGE 126	DOUBLE	–	PLASTIC LAMINATE	PL-4	(2) 3'-0" X 7'-0"	E	H.MTL.	PNT-1		
126B	MEETING 125 TO STORAGE 126	DOUBLE	–	PLASTIC LAMINATE	PL-4	(2) 3'-0" X 7'-0"	E	H.MTL.	PNT-1		
127	CORRIDOR 122 TO CORRIDOR 127	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
129	CORRIDOR 128 TO SUPERVISOR 129	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
130	CORRIDOR 128 TO SUPERVISOR 130	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
131	CORRIDOR 128 TO SUPERVISOR 131	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
132	CORRIDOR 128 TO MANAGER 132	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
135	CORRIDOR 133 TO SUPERVISOR 135	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
136	CORRIDOR 137 TO STORAGE 136	DOUBLE	–	PLASTIC LAMINATE	PL-4	(2) 3'-0" X 7'-0"	E	H.MTL.	PNT-1		
137	CORRIDOR 137 TO CORRIDOR 149	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
138	CORRIDOR 137 TO FLOATER 138	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
139	CORRIDOR 137 TO FLOATER 139	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
140A	CORRIDOR 137 TO IDD CONFERENCE 140	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
140B	IDD CONFERENCE 140 TO CORRIDOR 143	RHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
141	CORRIDOR 133 TO CIS/IDD 141	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
142	CORRIDOR 143 TO ASSIST 142	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
143A	LOBBY 101 TO CORRIDOR 143	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
143B	CORRIDOR 143 TO CORRIDOR 149	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
144	CORRIDOR 143 TO TEST 144	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
145	CORRIDOR 143 TO CIS/IDD 145	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
146	CORRIDOR 143 TO INTAKE 146	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
147	CORRIDOR 143 TO INTAKE 147	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
148	CORRIDOR 143 TO CONTRACT SPECIALIST 148	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
149	EXTERIOR TO CORRIDOR 149	LHR	–	HOLLOW METAL	PNT-7	3'-0" X 8'-0"	G	H.MTL.	PNT-7		

DOOR SCHEDULE

OPENING No.	LOCATION TO	SWING	DOOR FIRE RATING	DOOR TYPE	DOOR FINISH	DOOR SIZE	DOOR ELEV.	FRAME TYPE	FRAME FINISH	FRAME ELEV.	REMARKS (TO LH / RH / LHR / RHR LOCATION)
151	CORRIDOR 150 TO OFFICE TBD 151	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
152	CORRIDOR 150 TO FLOATER 152	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
153	CORRIDOR 153 TO CORRIDOR 200	LH	–	HOLLOW METAL	PNT-1	3'-0" X 7'-0"	G	H.MTL.	PNT-1		
155	CORRIDOR 153 TO WOMEN 155	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
156	CORRIDOR 153 TO JANITOR 156	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
157	CORRIDOR 153 TO MEN 157	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
158A	CORRIDOR 122 TO TRAINING ROOM 158	RH	–	PLASTIC LAMINATE	PL-4	MATCH 173 DOOR HT.	–	H.MTL.	PNT-1		
158B	TRAINING ROOM 158 TO CORRIDOR 159	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
161	CORRIDOR 159 TO STORAGE 161	DOUBLE	–	PLASTIC LAMINATE	PL-4	(2) 2'-0" X 7'-0"	J	H.MTL.	PNT-1		
164	CORRIDOR 163 TO SUPERVISOR 164	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
165	CORRIDOR 163 TO SUPERVISOR 165	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
166	CORRIDOR 163 TO SUPERVISOR 166	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
167	CORRIDOR 163 TO SUPERVISOR 167	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
168	CORRIDOR 163 TO SUPERVISOR 168	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
169	CORRIDOR 163 TO SUPERVISOR 169	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
173	CORRIDOR 122 TO CORRIDOR 173	LHR	–	PLASTIC LAMINATE	PL-4	MATCH EXISTING HT.	–	EXST. TO REMAIN	EXST. TO REMAIN		
174	EXTERIOR TO CORRIDOR 174	EXISTING TO REMAIN	–	EXISTING TO REMAIN	PNT-7	EXISTING TO REMAIN	–	EXST. TO REMAIN	PNT-7		
175	CORRIDOR 174 TO FLOATER 175	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
176	CORRIDOR 174 TO FLOATER MNGR. 176	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
177A	CORRIDOR 174 TO CONFERENCE RM 177	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
177B	CORRIDOR 174 TO CONFERENCE RM 177	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
179	CORRIDOR 178 TO SUPERVISOR 179	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
180	CORRIDOR 178 TO SUPERVISOR 180	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
181	CORRIDOR 178 TO SUPERVISOR 181	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
182	CORRIDOR 178 TO SUPERVISOR 182	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
183A	EXTERIOR TO VESTIBULE 183	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 7'-0"	D	ALUMINUM	DARK BRONZE		
183B	CORRIDOR 122 TO VESTIBULE 183	DOUBLE	–	HOLLOW METAL	PNT-7	(2) 3'-0" X 7'-0"	F	H.MTL.	PNT-7		
184	VESTIBULE 183 TO ELECTRICAL 184	RHR	–	HOLLOW METAL	PNT-1	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
185	EXTERIOR TO LOBBY 185	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 8'-0"	A	H.MTL.	PNT-1		
186	LOBBY 185 TO RR 186	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
188	CORRIDOR 189 TO STORAGE 188	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
189	LOBBY 185 TO CORRIDOR 189	LHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
190	CORRIDOR 189 TO RR 190	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
192	CORRIDOR 193 TO COUNSELOR 192	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
193	EXTERIOR TO CORRIDOR 193	RHR	–	HOLLOW METAL	PNT-7	3'-0" X 7'-0"	H	H.MTL.	PNT-7		
194	CORRIDOR 193 TO PSYCHIATRIST 194	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
195	CORRIDOR 189 TO GROUP 195	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
196A	EXTERIOR TO SHELL 196	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 8'-0"	A	ALUMINUM	DARK BRONZE		
196B	CORRIDOR 149 TO SHELL 196	LHR	–	HOLLOW METAL	PL-1	3'-0" X 7'-0"	G	H.MTL.	PNT-1		
196C	CORRIDOR 149 TO SHELL 196	LHR	–	HOLLOW METAL	PL-1	3'-0" X 7'-0"	G	H.MTL.	PNT-1		
196D	CORRIDOR 200 TO SHELL 196	LHR	–	HOLLOW METAL	PNT-1	3'-0" X 7'-0"	G	H.MTL.	PNT-1		
196E	EXTERIOR TO SHELL 196	EXST. TO REMAIN	–	EXISTING TO REMAIN	PNT-7	EXISTING TO REMAIN	–	EXST.	PNT-7		
196F	EXTERIOR TO SHELL 196	EXST. TO REMAIN	–	EXISTING TO REMAIN	PNT-7	EXISTING TO REMAIN	–	EXST.	PNT-7		
196G	EXTERIOR TO SHELL 196	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 8'-0"	A	ALUMINUM	DARK BRONZE		
196H	EXTERIOR TO SHELL 196	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 8'-0"	A	ALUMINUM	DARK BRONZE		
196I	EXTERIOR TO SHELL 196	DOUBLE	–	ALUMINUM	DARK BRONZE	(2) 3'-0" X 8'-0"	A	ALUMINUM	DARK BRONZE		
200	EXTERIOR TO CORRIDOR 200	RHR	–	HOLLOW METAL	PNT-7	3'-0" X 7'-0"	G	H.MTL.	PNT-7		
201	EXTERIOR TO PUMP ROOM 201	RHR	–	HOLLOW METAL	PNT-7	3'-0" X 7'-0"	H	H.MTL.	PNT-7		
202	WOMEN 155 TO LACTATION 202	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
203	CORRIDOR 116 TO JANITOR 203	RHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
204	CORRIDOR 189 TO JANITOR 204	RHR	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	H	H.MTL.	PNT-1		
205	CORRIDOR 122 TO FLOATER 205	RH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
206	CORRIDOR 149 TO FLOATER 206	LH	–	PLASTIC LAMINATE	PL-4	3'-0" X 7'-0"	I	H.MTL.	PNT-1		
207	FLOATER 152 TO STORAGE 207	DOUBLE	–	PLASTIC LAMINATE	PL-4	(2) 2'-0" X 7'-0"	J	H.MTL.	PNT-1		

WINDOW SCHEDULE

ELEV.	TYPE	FRAME TYPE	FRAME FINISH	GLAZING	SIZE	REMARKS
A	FIXED	ALUMINUM	DARK BRONZE	1" INSULATED LOW-E TINTED REFLECTIVE	6'-0" X 5'-8"	
B	FIXED	HOLLOW METAL	PNT-1	1/4" CLEAR SAFETY GLASS	7'-9" X 7'-2"	
C	FIXED	ALUMINUM	DARK BRONZE	1" INSULATED LOW-E TINTED REFLECTIVE	4'-0" X 5'-8"	
D	FIXED	ALUMINUM	DARK BRONZE	1" INSULATED LOW-E TINTED REFLECTIVE	6'-0" X 1'-0"	
E	FIXED	ALUMINUM	DARK BRONZE	1" INSULATED LOW-E TINTED REFLECTIVE	6'-0" X 2'-0"	
F	FIXED	ALUMINUM	DARK BRONZE	1" INSULATED LOW-E TINTED REFLECTIVE	10'-0" X 2'-0"	

NOTE:

THE WARREN GROUP ARCHITECTS, INC.

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SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION | DATE | APPROVED BY | DESCRIPTION

SEAL

REGISTERED ARCHITECT — 18378 — STATE OF TEXAS

EXP 10-31-19

PROPOSED

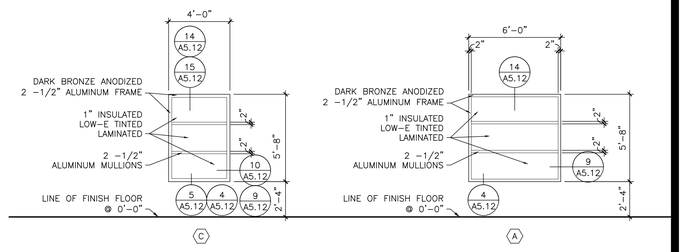
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

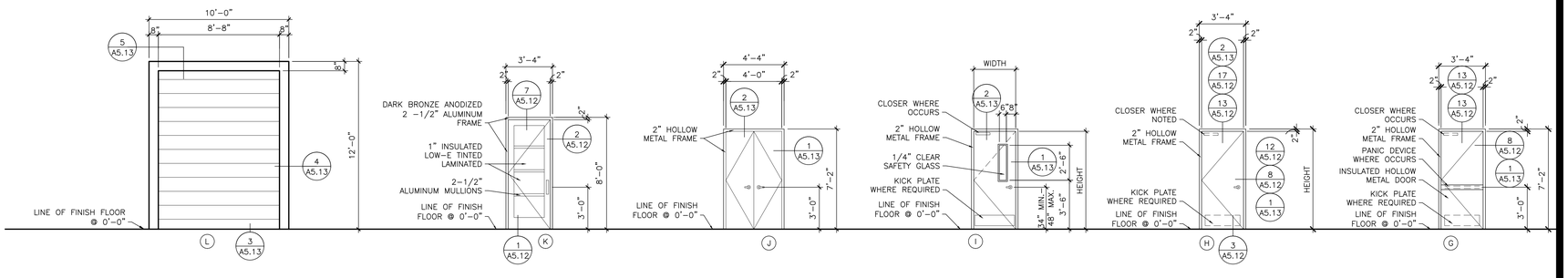
A6.21

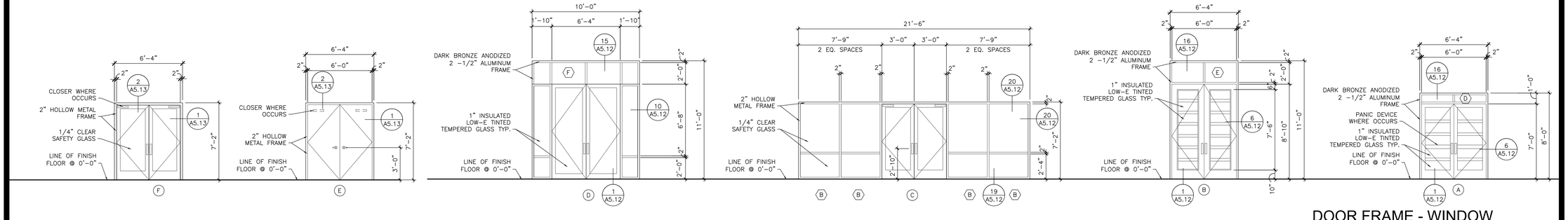
DOOR & WINDOW SCHEDULES



3 WINDOW ELEVATIONS

SCALE: 1/4"=1'-0"





2 DOOR ELEVATIONS

SCALE: 1/4"=1'-0"

1 DOOR FRAME - WINDOW ASSEMBLY ELEVATIONS

SCALE: 1/4"=1'-0"

THE WARREN GROUP
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KAMA K. WARREN
18378
STATE OF TEXAS

EXP 10-31-19

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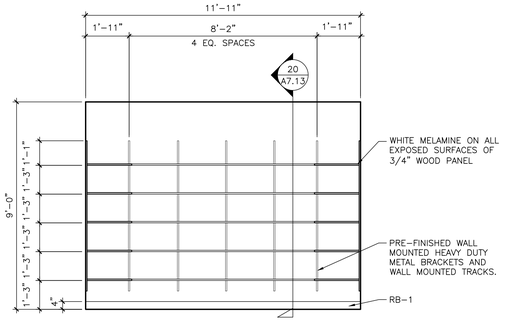
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

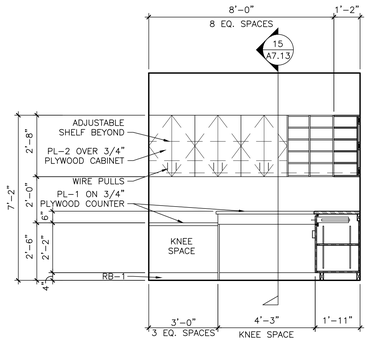
A6.22

DOOR & WINDOW ELEVATIONS



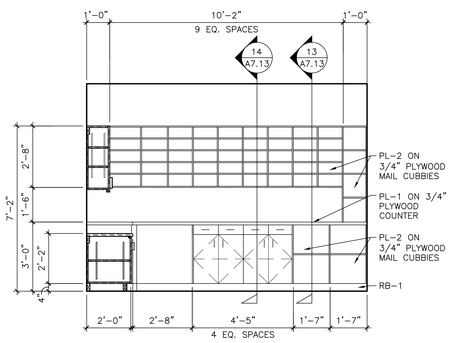
17 MILLWORK ELEVATION STORAGE 136

SCALE: 3/8"=1'-0" MWRK_ELEV_021



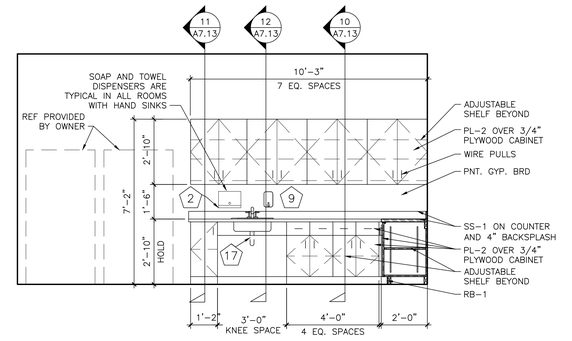
16 MILLWORK ELEVATION MAIL ROOM 121

SCALE: 3/8"=1'-0" MWORK_ELEV_019



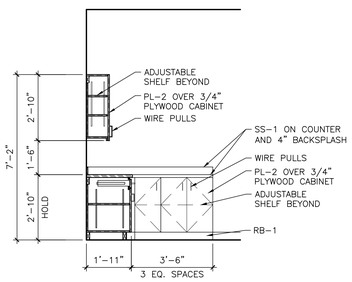
15 MILLWORK ELEVATION MAIL ROOM 121

SCALE: 3/8"=1'-0" MWORK_ELEV_018



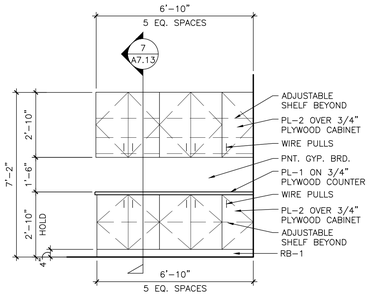
14 MILLWORK ELEVATION BREAK ROOM 123

SCALE: 3/8"=1'-0" MWORK_ELEV_001



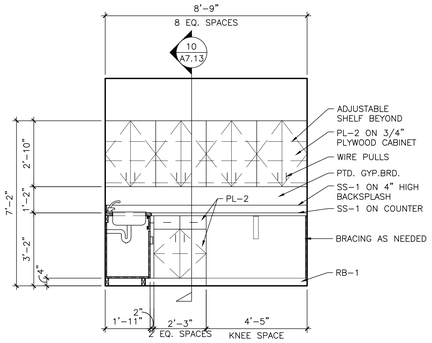
13 MILLWORK ELEVATION BREAK ROOM 123

SCALE: 3/8"=1'-0" MWORK_ELEV_002



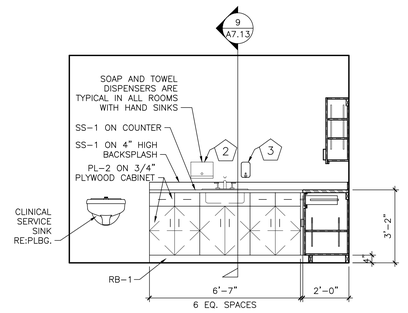
12 MILLWORK ELEVATION OFFICE 115

SCALE: 3/8"=1'-0" MWORK_ELEV_017



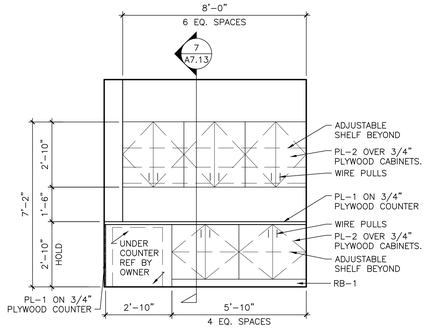
11 MILLWORK ELEVATION LAB 110

SCALE: 3/8"=1'-0" MWORK_ELEV_016



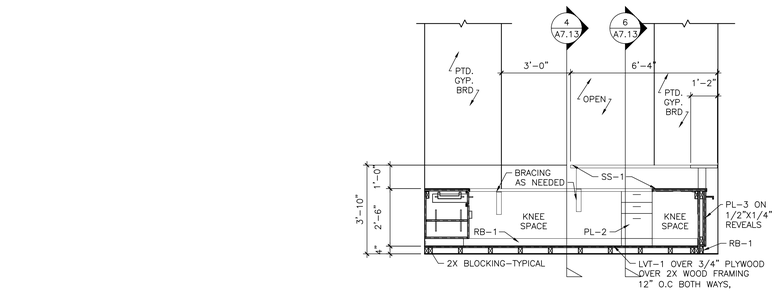
10 MILLWORK ELEVATION LAB 110

SCALE: 3/8"=1'-0" MWORK_ELEV_015



9 MILLWORK ELEVATION COPY/BREAK 106

SCALE: 3/8"=1'-0" MWORK_ELEV_014

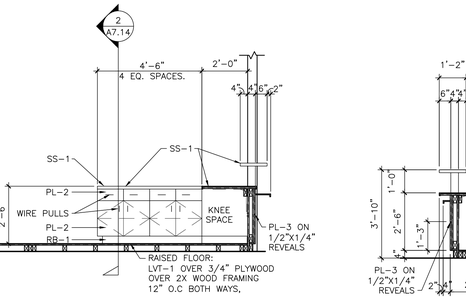


4 MILLWORK ELEVATION RECEPTION 102

SCALE: 3/8"=1'-0" MWORK_ELEV_008

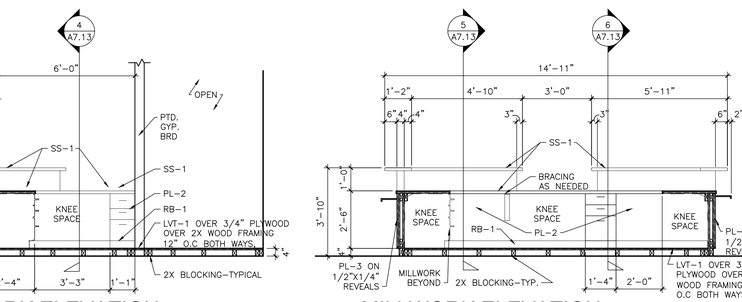
3 MILLWORK ELEVATION RECEPTION 102

SCALE: 3/8"=1'-0" MWORK_ELEV_007



2 MILLWORK ELEVATION RECEPTION 102

SCALE: 3/8"=1'-0" MWORK_ELEV_004



1 RECEPTION 102

SCALE: 3/8"=1'-0"

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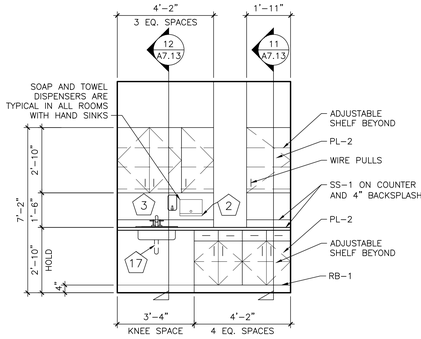
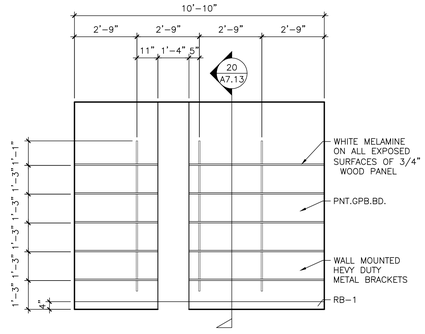
A7.11
MILLWORK ELEVATIONS



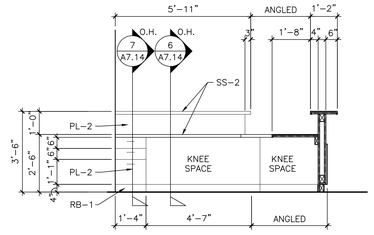
17 MILLWORK ELEVATION BREAK ROOM 191

SCALE: 3/8"=1'-0" MWORK_ELEV_027



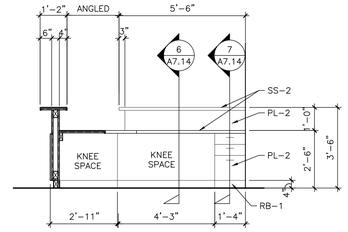
16 MILLWORK ELEVATION STORAGE 207

SCALE: 3/8"=1'-0" MWORK_ELEV_030



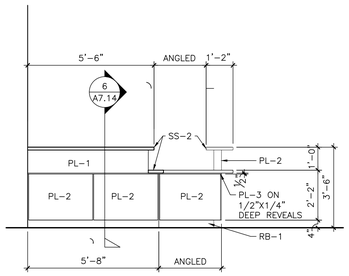
15 MILLWORK ELEVATION RECEPTION 187

SCALE: 3/8"=1'-0" MWORK_ELEV_013



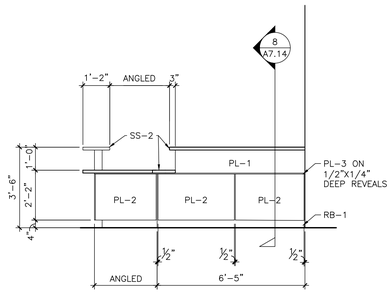
14 MILLWORK ELEVATION RECEPTION 187

SCALE: 3/8"=1'-0" MWORK_ELEV_012



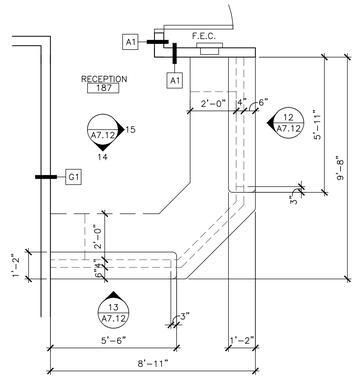
13 MILLWORK ELEVATION RECEPTION 187

SCALE: 3/8"=1'-0" MWORK_ELEV_011



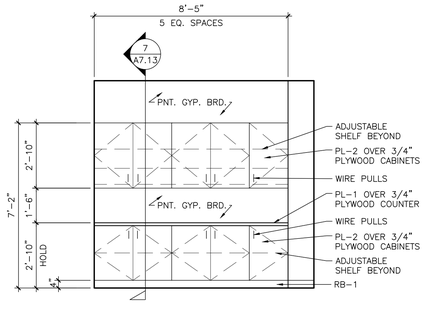
12 MILLWORK ELEVATION RECEPTION 187

SCALE: 3/8"=1'-0" MWORK_ELEV_010



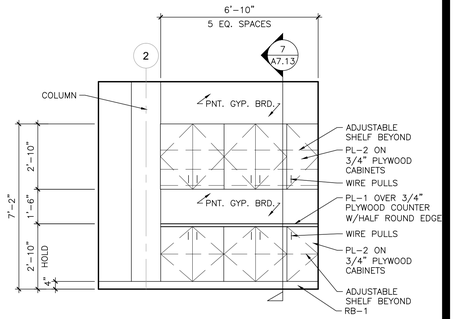
11 RECEPTION 187

SCALE: 3/8"=1'-0"



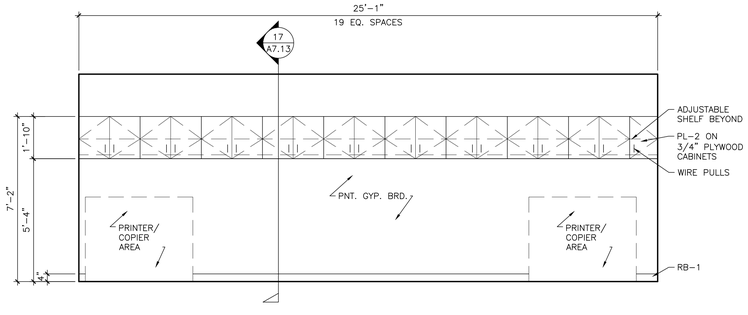
10 MILLWORK ELEVATION SUPERVISOR 180

SCALE: 3/8"=1'-0" MWORK_ELEV_026



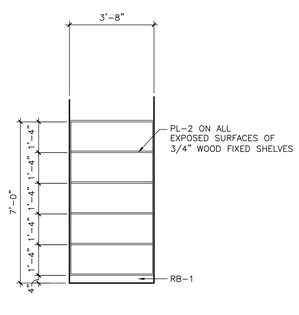
9 MILLWORK ELEVATION SUPERVISOR 179

SCALE: 3/8"=1'-0" MWORK_ELEV_025



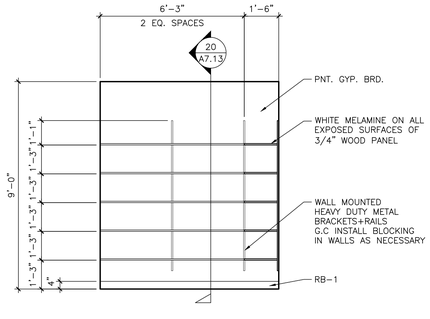
8 MILLWORK ELEVATION CORRIDOR 174 COPY CENTERS

SCALE: 3/8"=1'-0" MWORK_ELEV_024



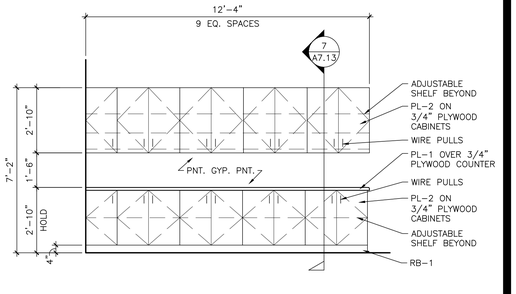
7 MILLWORK ELEVATION CORRIDOR 174

SCALE: 3/8"=1'-0" MWORK_ELEV_023



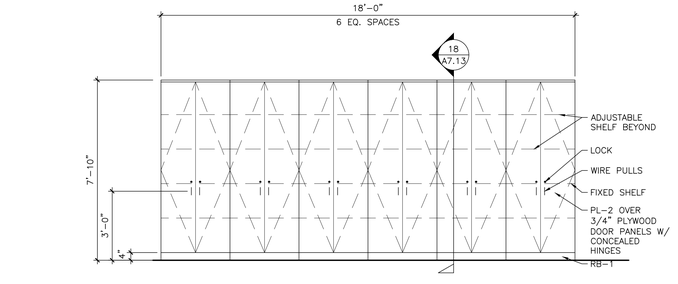
6 MILLWORK ELEVATION STORAGE 161

SCALE: 3/8"=1'-0" MWORK_ELEV_028



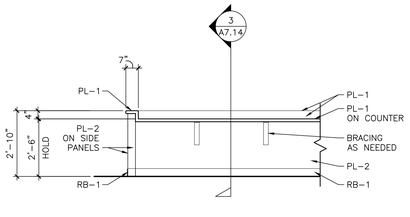
5 MILLWORK ELEVATION CORRIDOR 159

SCALE: 3/8"=1'-0" MWORK_ELEV_020



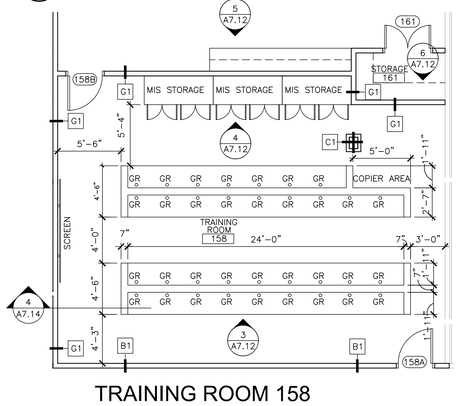
4 MILLWORK ELEVATION TRAINING ROOM 158

SCALE: 3/8"=1'-0" MWORK_ELEV_031



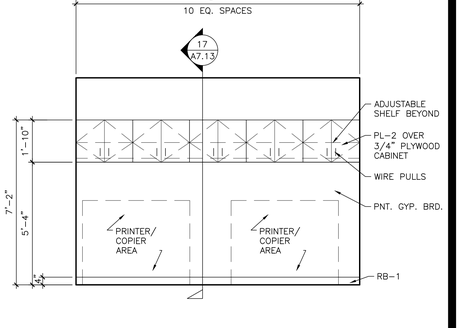
3 MILLWORK ELEVATION TRAINING ROOM 158

SCALE: 3/8"=1'-0" MWORK_ELEV_034



2 TRAINING ROOM 158 AND STORAGE 161

SCALE: 1/4"=1'-0"



1 MILLWORK ELEVATION CORRIDOR 137 COPY CENTER

SCALE: 3/8"=1'-0" MWORK_ELEV_022

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STATE OF TEXAS

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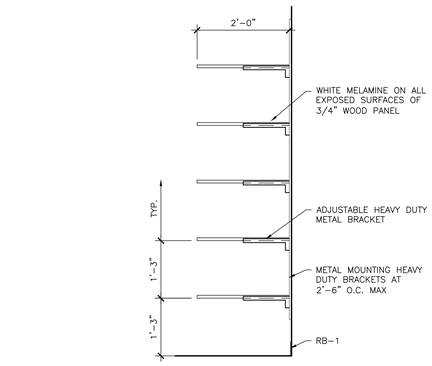
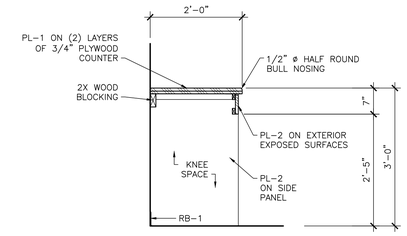
MILLWORK ELEVATIONS



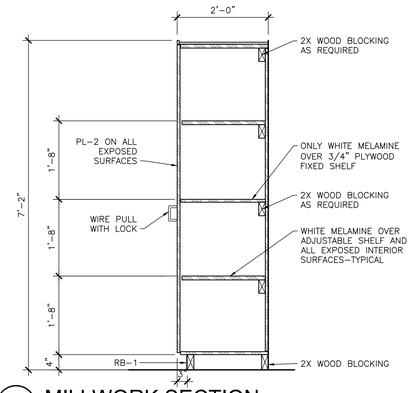
20 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_020



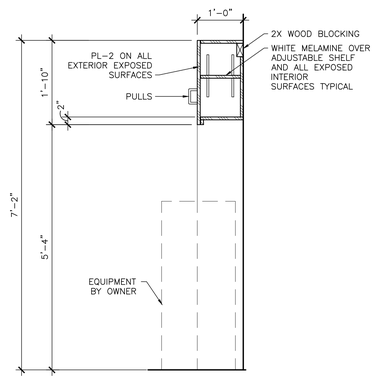
19 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_013



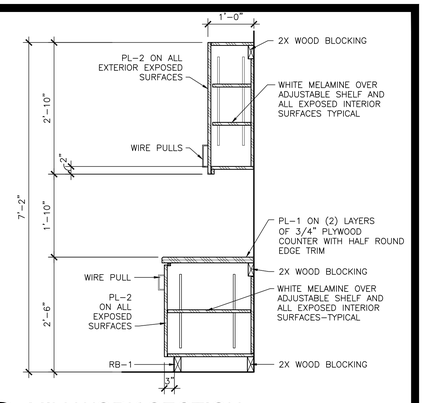
18 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_014



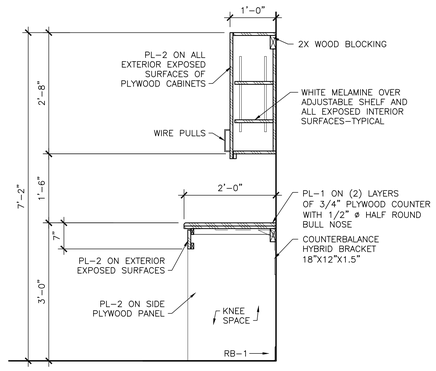
17 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_019



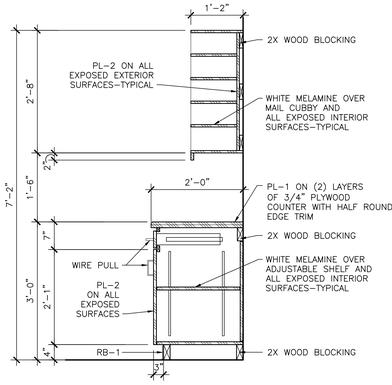
16 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_017



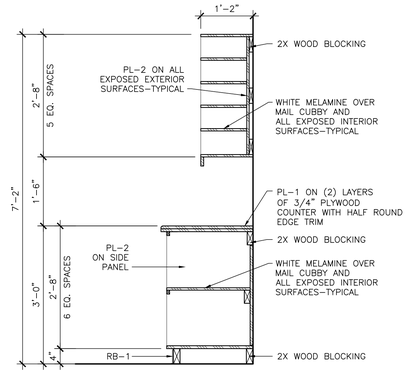
15 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_014



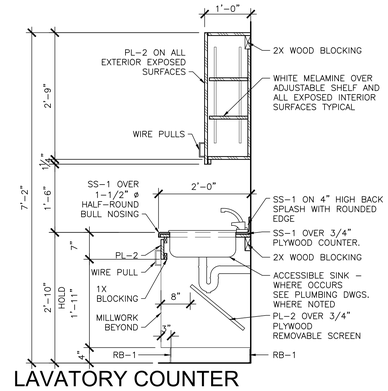
14 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_016



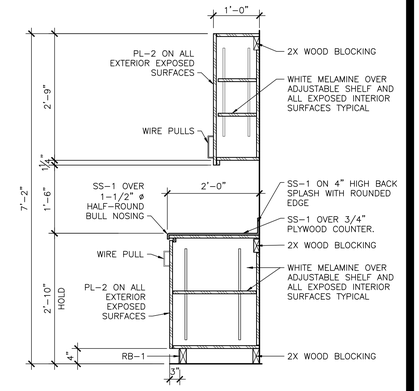
13 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_015



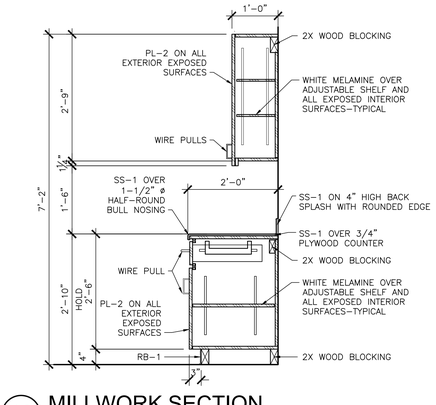
LAVATORY COUNTER MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_002



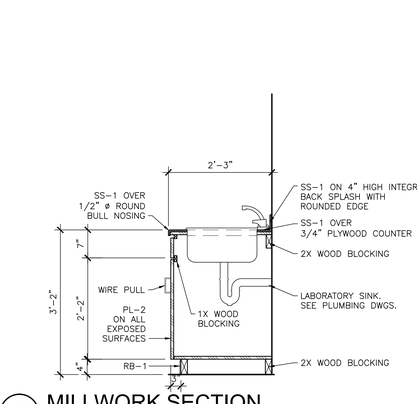
11 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_001



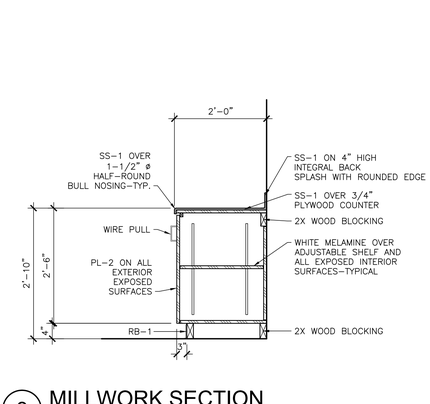
10 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_003



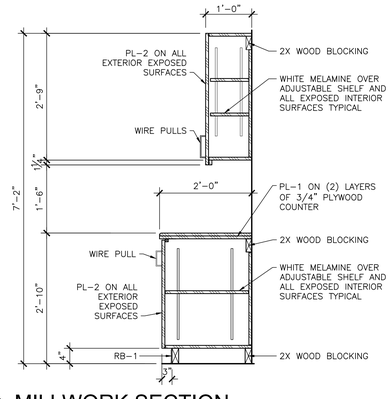
9 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_010



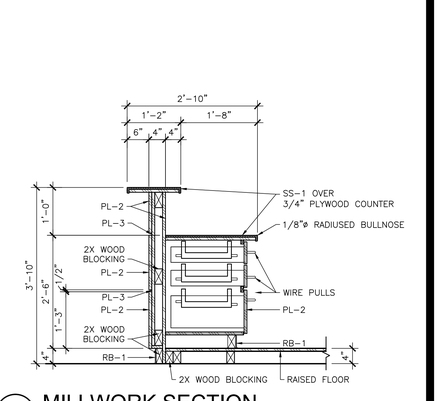
8 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_004



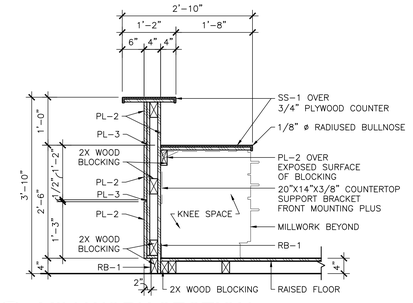
7 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_006



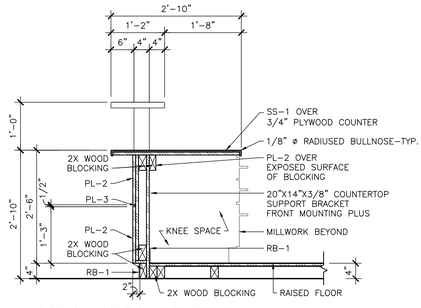
6 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_009



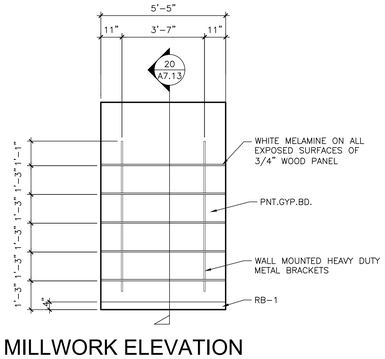
5 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_008



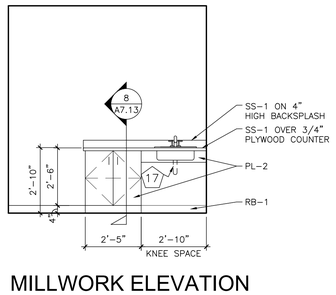
4 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_005



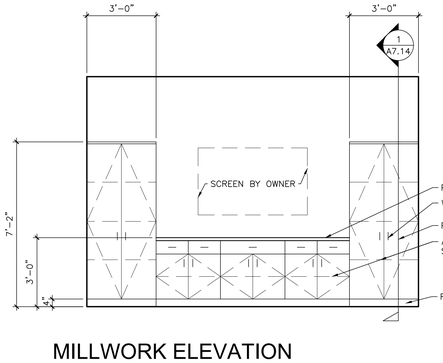
3 MILLWORK ELEVATION STORAGE 207

SCALE: 3/8"=1'-0" MWORK_ELEV_030



2 MILLWORK ELEVATION LACTATION 202

SCALE: 3/8"=1'-0" MWORK_ELEV_029



1 MILLWORK ELEVATION GROUP THERAPY 112 & 195

SCALE: 3/8"=1'-0" MWORK_ELEV_031

THE WARREN GROUP ARCHITECTS, INC.
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REVISION | DATE | APPROVED BY | DESCRIPTION

SEAL

REGISTERED ARCHITECT
ALMA K. WARREN
18378
STATE OF TEXAS

EXP 10-31-19

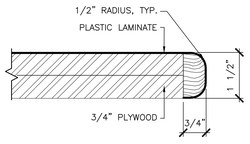
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

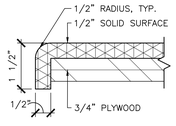
PROJECT 1591801
DATE 05/17/2019
REVISED

A7.13
MILLWORK SECTIONS



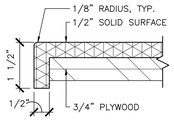
10 1/2" RADIUS PLASTIC LAMINATE COUNTER EDGE

SCALE: 6"=1'-0" MWRK_SECT_024



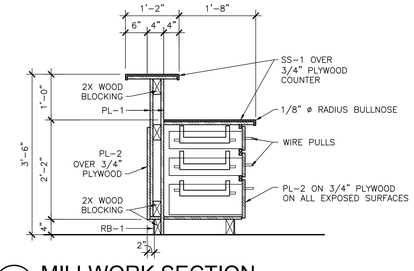
9 1/2" RADIUS SOLID SURFACE COUNTER EDGE

SCALE: 6"=1'-0" MWRK_SECT_024



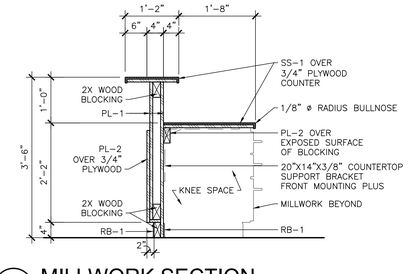
8 1/8" RADIUS SOLID SURFACE COUNTER EDGE

SCALE: 6"=1'-0" MWRK_SECT_024



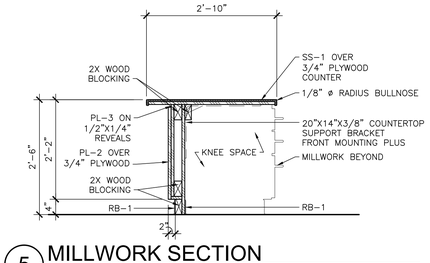
7 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_023



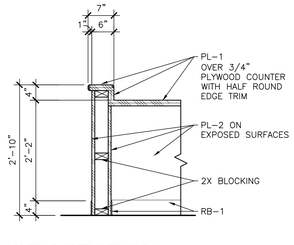
6 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_022



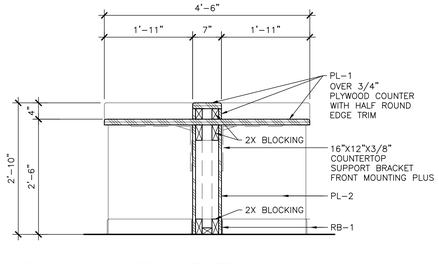
5 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_005



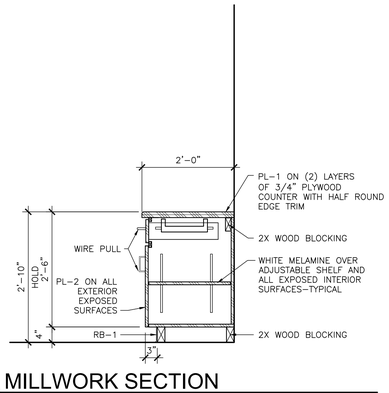
4 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_027



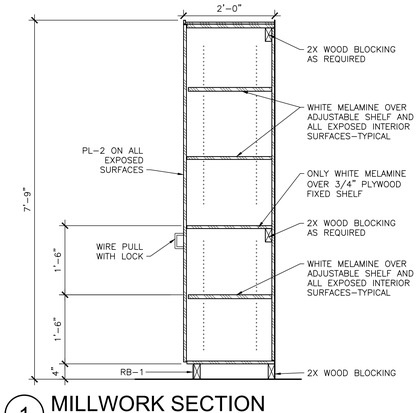
3 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_026



2 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_028



1 MILLWORK SECTION

SCALE: 3/4" = 1'-0" MWRK_SECT_011

THE WARREN GROUP
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REVISION	DATE	APPROVED BY	DESCRIPTION

SEAL

REGISTERED ARCHITECT
JAIME A. WARREN
18378
STATE OF TEXAS

EXP 10-31-19

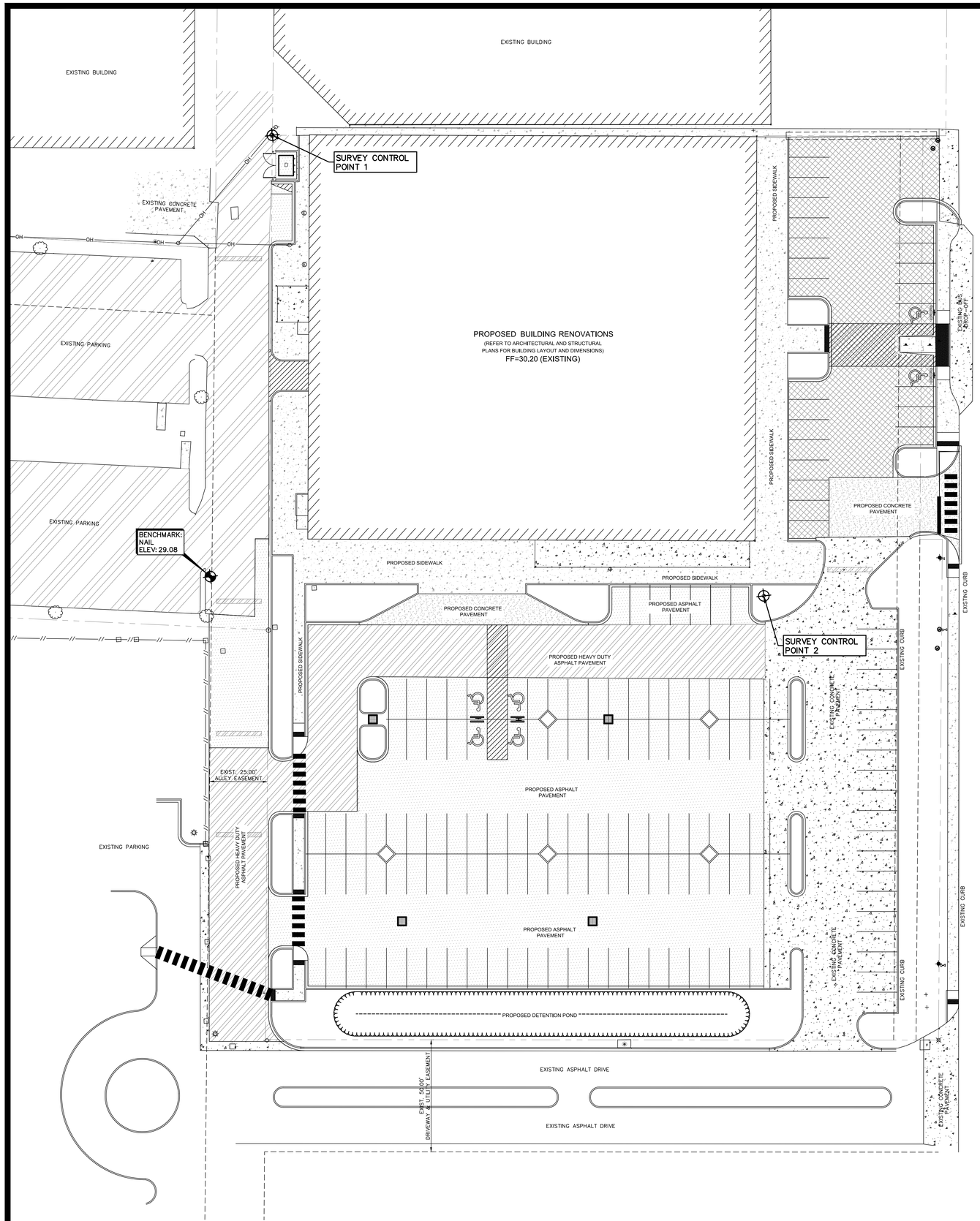
PROPOSED

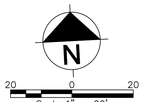
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

A7.14
MILLWORK SECTIONS





LEGEND

- = PROPOSED ASPHALT PAVEMENT
- = PROPOSED SIDEWALK SECTION
- = PROPOSED CONCRETE PAVEMENT SECTION
- = PROPOSED CURB & GUTTER
- = PROPOSED EDGE CURB
- = FD SPINDLE
- = FD/SET NAIL
- = FD 1/2" ROD
- = FD "X" CUT
- = TREE
- = ELECTRIC METER
- = SPT9
- = FIRE HYDRANT
- = GUY WIRE
- = LIGHT POLE
- = MANHOLE
- = POST
- = POWER POLE
- = SIGN
- = WATER METER
- = WATER VALVE
- = SEWER CLEANOUT
- OH = OVERHEAD POWER
- // = CEDAR FENCE

SURVEY CONTROL POINT 1

DESCRIPTION	Northing	Easting
NAIL	16502924.21	1313149.14

SURVEY CONTROL POINT 2

DESCRIPTION	Northing	Easting
NAIL	16502707.73	1313357.38

GENERAL NOTES:

1. CONTRACTOR TO DEMOLISH AND REMOVE (AT HIS EXPENSE) ANY EXISTING HINDRANCES INCLUDING, BUT NOT LIMITED TO: STRUCTURES, UTILITIES, TREES, SHRUBS AND/OR CONCRETE WORK NECESSARY TO COMPLETE PROPOSED SITE WORK AND UTILITY LINES.
2. BACKFILL FOR DRAINAGE INLETS, IRRIGATION PIPE SLEEVES, ELECTRICAL CONDUIT, AND UTILITY TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AND SHALL HAVE A PLASTICITY INDEX LESS THAN 6 P.I.
3. ALL CONCRETE SHALL BE TYPE "A" (2004 TxDOT SPECS) AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE IN PLAN DETAILS.
4. PLASTIC BAR CHAIRS OR SMALL PRECAST CONCRETE BLOCKS APPROVED BY THE ENGINEER SHALL BE USED AS SUPPORTS FOR REINFORCEMENT.
5. LONGITUDINAL REINFORCING BARS SHALL BE LAPPED AT A MINIMUM OF 18 INCHES.
6. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED UNDER THIS CONTRACT.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS NECESSARY FOR COMPLETION OF WORK.
8. LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE INITIATING CONSTRUCTION OPERATIONS.
9. ANY DAMAGES DONE TO EXISTING PAVEMENT STRUCTURE, EXISTING SIDEWALKS, IRRIGATION SYSTEM, UTILITIES, OR OTHER STRUCTURES SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
10. CONTRACTOR TO SUBMIT JOINT SEALER MATERIAL TO ENGINEER FOR APPROVAL.
11. ALL RCP TO BE RUBBER GASKET JOINT.
12. ALL SIGNS SHALL CONFORM WITH THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", LATEST EDITION.
13. POST MOUNTED SIGNS SHALL BE PLACED APPROXIMATELY 1 FOOT (OR GREATER) BEHIND THE CURB TO PREVENT DAMAGE FROM VEHICLE OVERHANG.
14. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN FOR CONCRETE PAVEMENT FOR APPROVAL BY ENGINEER.
15. PAINT FOR ALL PAVEMENT MARKINGS SHALL COMPLY WITH ITEM 666 TxDOT STANDARD SPECIFICATIONS 2014 EDITION, TYPE I, "HOT APPLIED THERMALPLASTIC PAINT".
16. REFER TO ELECTRICAL PLANS FOR PROPOSED ILLUMINATION ASSEMBLY DETAILS AND UNDERGROUND CONDUIT LOCATIONS. REFER TO LANDSCAPE PLANS FOR PROPOSED LANDSCAPING AND IRRIGATION LOCATIONS.
17. ALL HANDICAP RAMPS SHALL A HAVE REPLACEABLE TRUNCATED DOME DETECTABLE WARNING SYSTEM; RED BRICK, BY ADA SOLUTIONS OR METADOME OR APPROVED EQUAL.
18. THERE SHALL BE A MINIMUM INTERRUPTION OF TRAFFIC AND ACCESS TO ADJACENT STREETS ALONG THE PROJECT SITE. IF DRIVEWAYS OR ROADS ARE TO BE CLOSED; CITY OF BROWNSVILLE TRAFFIC OPERATIONS DEPARTMENT SHALL BE CONTACTED 48 HOURS BEFORE SUCH CLOSING.
19. VERTICAL AND HORIZONTAL CONTROL HAVE BEEN PROVIDED TO THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO DO ALL HIS CONSTRUCTION AND LAYOUT FIELD STAKING. ALL LAYOUT RELATIVE TO PROPERTY LINES SHALL BE DONE BY A REGISTERED PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF TEXAS..
20. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL OBSTRUCTIONS, OBJECTIONABLE MATERIAL AND CONCRETE SHALL BE DISPOSED PROPERLY BY HAULING IT OFF THE PROJECT AT THE CONTRACTOR EXPENSE.
21. ALL HAULING OF EXCAVATED OR REMOVED MATERIAL WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED AS SUBSIDIARY TO THE PROJECT COST.
22. FURNISH HYDRAULIC CEMENT CONCRETE FOR CONCRETE PAVEMENTS, CONCRETE OTHER CONCRETE CONSTRUCTION IN ACCORDANCE WITH ITEM 421 TxDOT (2004) STANDARD SPECIFICATIONS.
23. LIMIT AIR ENTRAINMENT TO LESS THAN 2% IN ALL CONCRETE MIXES.
24. CONSTRUCT CONCRETE STRUCTURES IN ACCORDANCE TO ITEM 420 TxDOT (2004) STANDARD SPECIFICATIONS.
25. PROVIDE MEMBRANE CURING COMPOUND ON ALL CONCRETE WORK SPECIFIED IN THE PLANS. CONTRACTOR TO SUBMIT MEMBRANE CURING COMPOUND FOR ENGINEERS APPROVAL.
26. CONTRACTOR SHALL PROVIDE TRENCH PROTECTION FOR EXCAVATIONS GREATER THAN 5 FEET BELOW GROUND ELEVATION IN ACCORDANCE TO O.S.H.A. REQUIREMENTS.
27. THE CONTRACTOR SHALL IMPLEMENT A STORM SEWER WATER POLLUTION PREVENTION PLAN (SW3P.) AND SHALL BE IN ACCORDANCE TO TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS. ALL APPLICATIONS FEES IT ANY SHALL BE PAID FOR BY THE CONTRACTOR. A COPY OF THE TPDES GENERAL PERMIT TXR150000 IS INCLUDED WITH THE SPECIFICATIONS.
28. CONTRACTOR SHALL COORDINATE STAGING AREA AND HAUL ROUTES WITH OWNER.
29. CONTRACTOR TO COORDINATE ELECTRICAL, LIGHTING, GAS, AND ANY OTHER SERVICES REQUIRED FOR BUILDING USE WITH CORRESPONDING UTILITY OWNERS.
30. ALL ELECTRICAL CONDUITS SHOWN IN CIVIL ENGINEERING SITE PLANS TO BE PVC THAT MEETS THE REQUIREMENTS OF NEMA STANDARD TC-2, U2651, AND THE NEC MARKED BY 5/8" GALVANIZED HEX BOLT ON TOP OF CURB OR SIDEWALK. CONDUIT TO BE 3' DEEP AND TRENCH TO BE BACKFILLED WITH IN-SITU MATERIAL AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR.

DIG TESS: 1-800-344-8377

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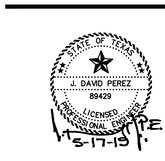


REVISION	DATE	APPROVED BY	DESCRIPTION

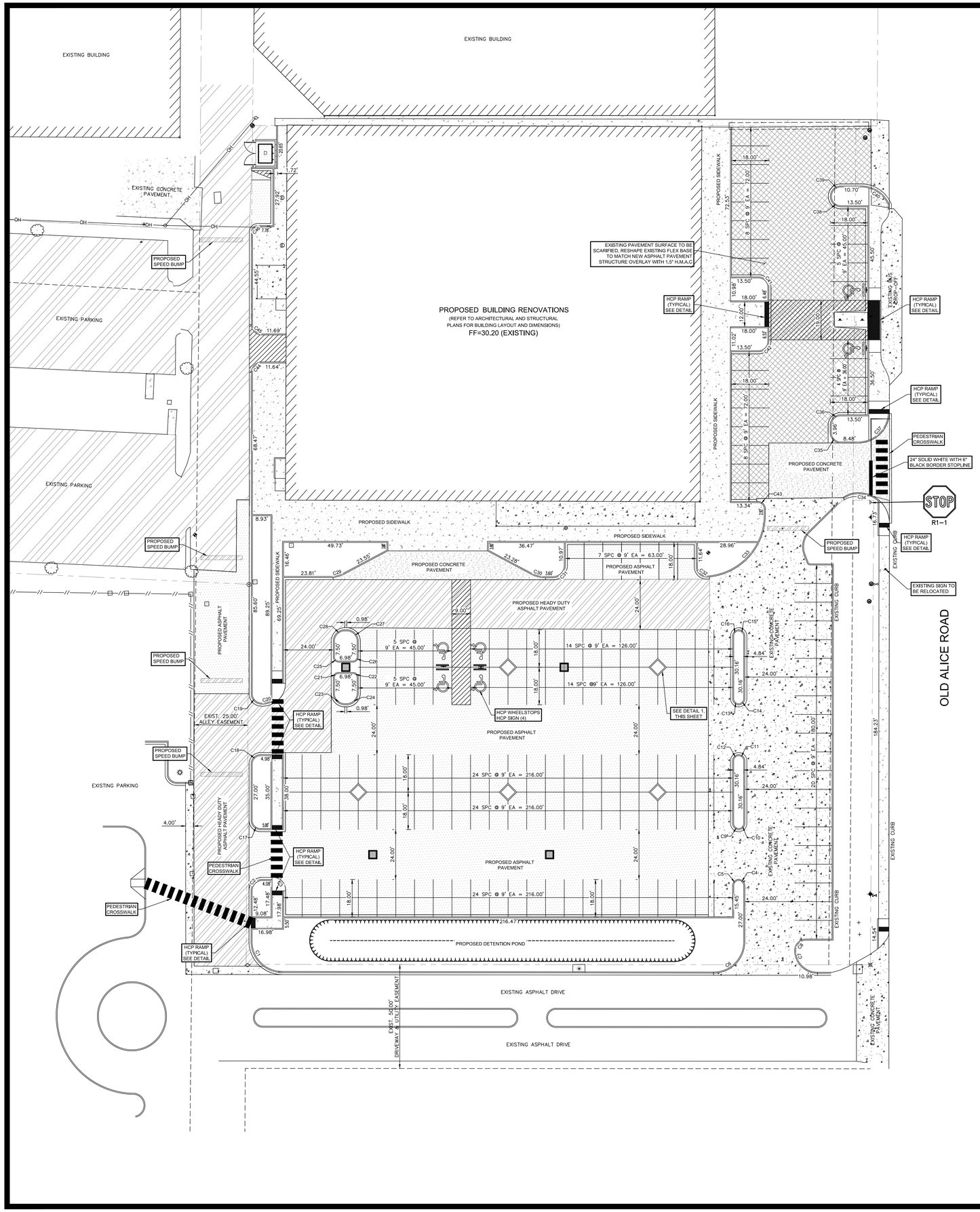
PROPOSED

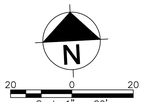
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C100
GENERAL NOTES/
SURVEY CONTROL





LEGEND

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- = PROPOSED SIDEWALK SECTION
- = PROPOSED CONCRETE PAVEMENT SECTION
- = PROPOSED CURB & GUTTER
- = PROPOSED EDGE CURB
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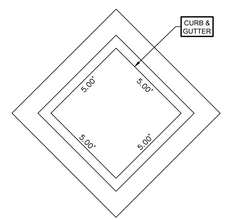
- = POWER POLE
- = SIGN
- = WATER METER
- = WATER VALVE
- = SEWER CLEANOUT
- OH = OVERHEAD POWER
- = CEDAR FENCE

Curve Table			
Curve #	Length	Radius	Delta
C1	22.78	14.50	090.00
C2	7.85	5.00	089.96
C3	9.42	6.00	090.00
C4	3.90	2.50	089.27
C5	3.90	2.50	089.27
C6	22.79	14.50	090.07
C7	16.33	10.50	089.10
C8	7.93	5.00	090.82
C9	7.61	2.42	180.00
C10	7.61	2.42	180.00
C11	7.61	2.42	180.00
C12	7.61	2.42	180.00
C13	7.61	2.42	180.00
C14	7.61	2.42	180.00
C15	7.61	2.42	180.00
C16	7.61	2.42	180.00
C17	6.29	4.00	090.04
C18	6.28	4.00	089.96
C19	7.07	4.50	090.00
C20	4.07	9.50	024.54

Curve Table			
Curve #	Length	Radius	Delta
C21	3.14	2.00	090.00
C22	3.14	2.00	090.00
C23	7.85	5.00	090.00
C24	7.85	5.00	090.00
C25	3.14	2.00	090.00
C26	3.14	2.00	090.00
C27	7.85	5.00	090.00
C28	7.85	5.00	090.00
C29	5.40	14.52	021.29
C30	7.07	14.50	027.96
C31	8.64	5.50	090.03
C32	7.41	4.50	094.29
C33	30.32	29.50	058.89
C34	9.79	14.00	040.06
C35	6.88	4.50	087.54
C36	6.88	4.50	087.54
C37	21.90	14.50	086.55
C38	7.07	4.50	090.00
C39	7.07	4.50	090.00
C40	15.59	14.50	061.60

Curve Table			
Curve #	Length	Radius	Delta
C41	7.07	4.50	090.00
C42	7.07	4.50	090.00
C43	4.71	3.00	089.89
C44	7.07	4.50	090.00
C45	7.07	4.50	090.00
C46	3.93	2.50	090.01



1 INTERIOR ISLAND DETAIL

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST. SUITE 330
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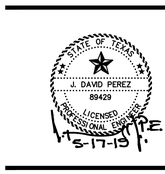
twgarch.com



REVISION	DATE	APPROVED BY	DESCRIPTION

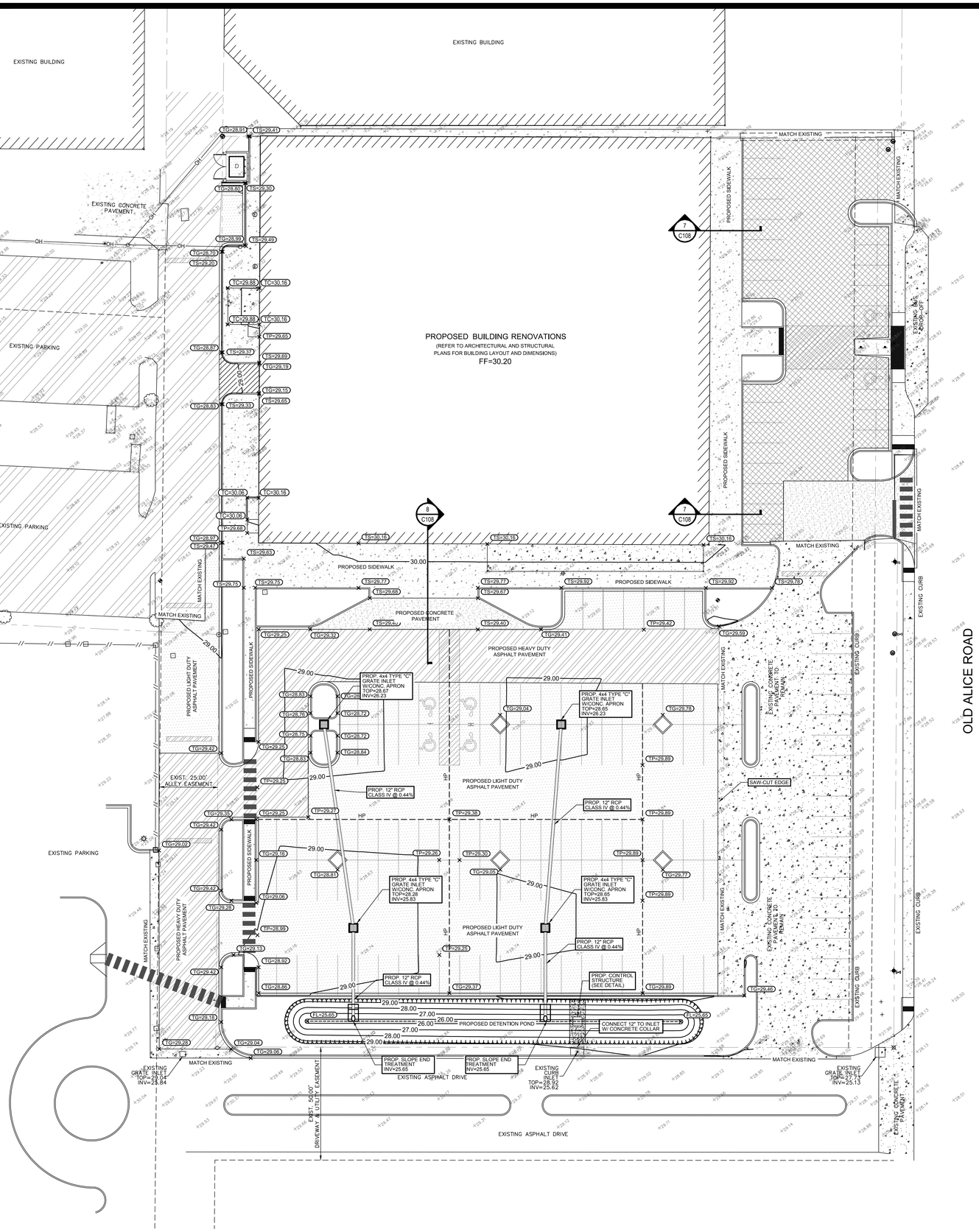
PROPOSED

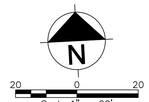
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C101
DIMENSION CONTROL PLAN





LEGEND

- = PROPOSED ASPHALT PAVEMENT
- = PROPOSED SIDEWALK SECTION
- = PROPOSED CONCRETE PAVEMENT SECTION
- = PROPOSED CURB & GUTTER
- = PROPOSED EDGE CURB
- = GRADE BREAK
- XEL=93.50 = EXISTING ELEVATIONS
- XTA=120.90' = PROPOSED ELEVATIONS
- = FLOW DIRECTION
- 109 = PROPOSED CONTOURS(FINISH GRADE)
- 109 = EXISTING CONTOURS
- HP = HIGH POINT
- EL = TOP OF FINAL GRADE
- TP = TOP OF PAVEMENT
- TEC = TOP OF EDGE CURB
- TC = TOP OF CURB
- TG = TOP OF GUTTER
- FL = FLOW LINE
- PDP = POLYPROPYLENE DUAL WALL STORM
- RCP = REINFORCED CONCRETE PIPE
- EOP = EDGE OF PAVEMENT
- TB = TOP OF BANK
- BB = BOTTOM OF BANK
- = FD SPINDLE
- = FD/SET NAIL
- = FD 1/2" ROD
- = FD "X" CUT
- = TREE
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THE WARREN GROUP ARCHITECTS, INC.
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STATE OF TEXAS
J. DAVID PEREZ
85429
LICENSED PROFESSIONAL ENGINEER
5-17-19

REVISION	DATE	APPROVED BY	DESCRIPTION

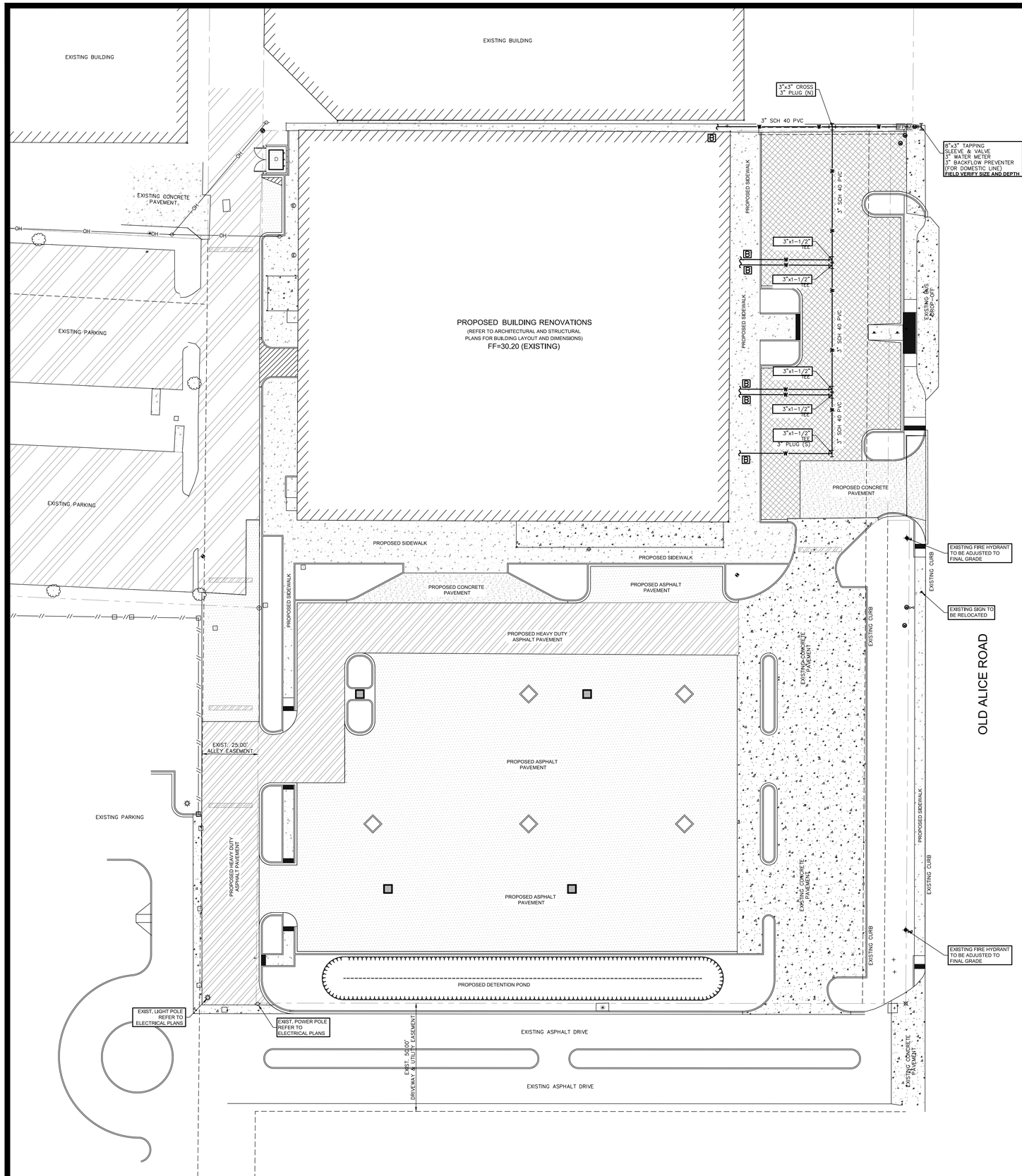
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C102
GRADING AND DRAINAGE PLAN



N

20 0 20

Scale 1" = 20'

LEGEND

- = PROPOSED ASPHALT PAVEMENT
- = PROPOSED SIDEWALK SECTION
- = PROPOSED CONCRETE PAVEMENT SECTION
- = PROPOSED CURB & GUTTER
- = PROPOSED EDGE CURB
- = FD SPINDLE
- = FD/SET NAIL
- = FD 1/2" ROD
- = FD "X" CUT
- = TREE
- = ELECTRIC METER
- = SPT9
- = FIRE HYDRANT
- = GUY WIRE
- = LIGHT POLE
- = MANHOLE
- = POST
- = POWER POLE
- = SIGN
- = WATER METER
- = WATER VALVE
- = SEWER CLEANOUT
- OH = OVERHEAD POWER
- // = CEDAR FENCE

KEYED NOTES:

[A] SANITARY SEWER SERVICE CONNECTIONS BY MASTER PLUMBER. CONNECT TO BUILDING SANITARY SEWER SERVICE LINE (VERIFY ELEVATION AND LOCATION FROM MEP PLAN). REFER TO SANITARY SEWER SERVICE DETAIL FOR CONNECTION

[B] CONNECT WATERLINE (VERIFY ELEVATION AND LOCATION FROM MEP PLAN)

[C] ADJUST WATERLINE OVER STORM SEWER PIPE

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STATE OF TEXAS
J. DAVID PEREZ
85429
LICENSED PROFESSIONAL ENGINEER
5-17-19

REVISION	DATE	APPROVED BY	DESCRIPTION

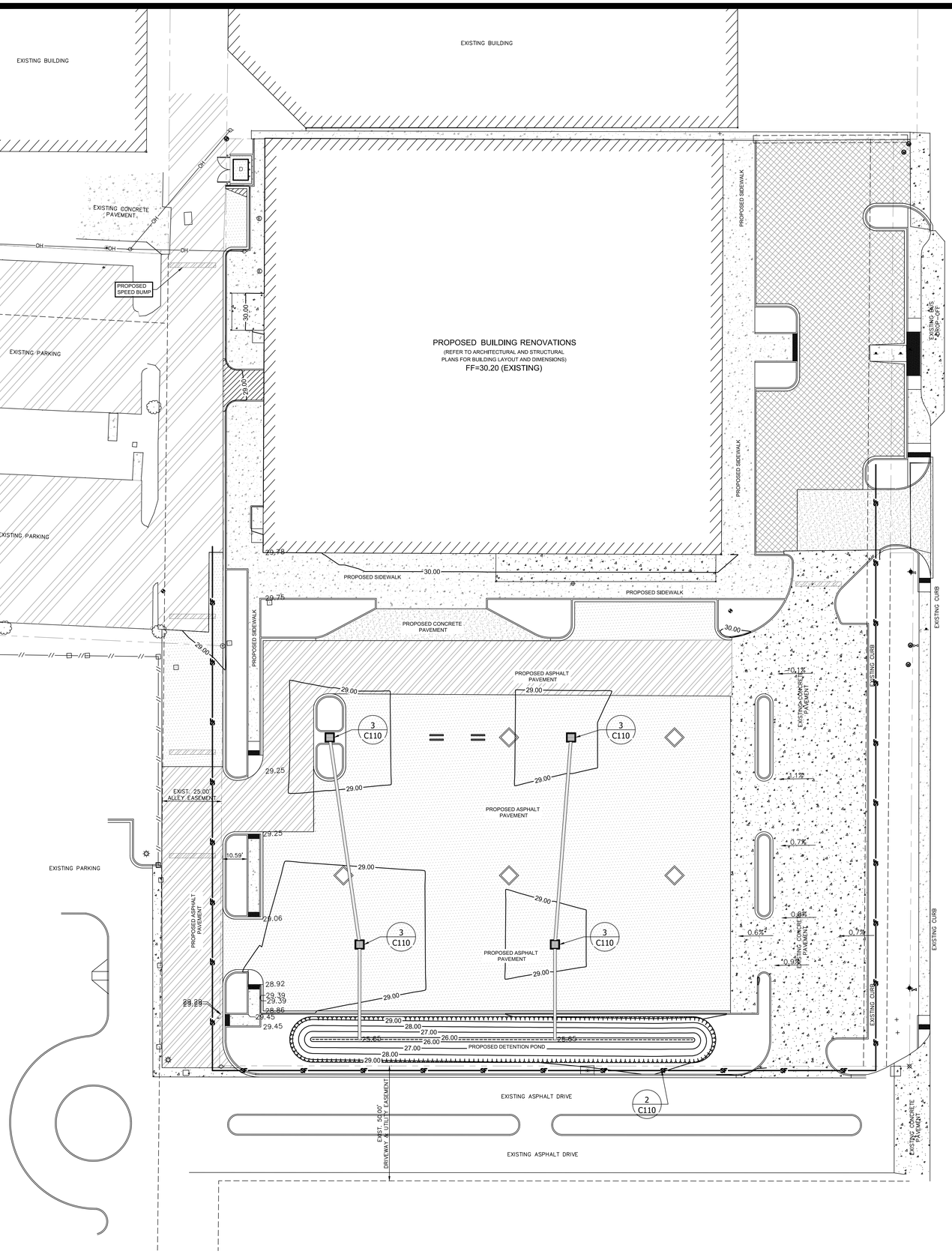
PROPOSED

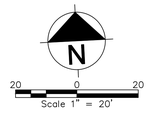
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C103
WATER/WASTEWATER PLAN





LEGEND

- = PROPOSED ASPHALT PAVEMENT
- = PROPOSED SIDEWALK SECTION
- = PROPOSED CONCRETE PAVEMENT SECTION
- = PROPOSED CURB & GUTTER
- = PROPOSED EDGE CURB
- SF = PROP. SILT FENCE
- FT—FT = PROP. FIBER FILTRATION TUBE
- 95.75 = PROPOSED CONTOURS
- 93.5 = EXISTING CONTOURS
- = STORM WATER FLOW DIRECTION
- = FD SPINDLE
- = FD/SET NAIL
- = FD 1/2" ROD
- = FD "X" CUT
- = TREE
- = ELECTRIC METER
- = SPT9
- = FIRE HYDRANT
- = GUY WIRE
- = LIGHT POLE
- = MANHOLE
- = POST
- = POWER POLE
- = SIGN
- = WATER METER
- = WATER VALVE
- = SEWER CLEANOUT
- OH = OVERHEAD POWER
- = CEDAR FENCE

EROSION CONTROL NOTES:

1. COORINATE CONSTRUCTION ENTRANCE/EXIST.
2. CONTRACTOR SHALL IMPLEMENT STORM WATER POLLUTION PREVENTION PLAN.
3. DISTURBE AREAS FOR STAGING SHALL BE STABILISED UPON COMPLETION OF PROJECT.

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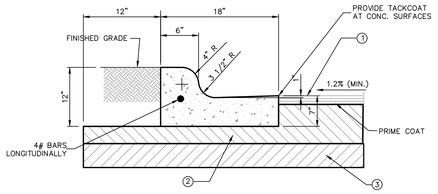
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C104
EROSION CONTROL PLAN



(A) PARKING LOT PAVEMENT SECTION

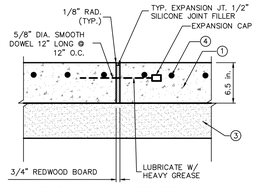
KEYED NOTES:

1. PROPOSED 2.0 INCHES (LIGHT DUTY); 3.0 INCHES (HEAVY DUTY) OF HOT MIX ASPHALTIC CONCRETE SURFACE COURSE WITH LIMESTONE AGGREGATES AND FILLERS TYPE D ITEM 340 (2014 TxDOT STANDARD SPECIFICATIONS) COMPACTION TO WITHIN AN AIR VOID RANGE OF 3 TO 8.5 PERCENT FROM MAXIMUM THEORETICAL GRAVITY PER TxDOT TEX-227-F. TARGET DESIGN LAB DENSITY SHALL BE 97% FOR LIGHT DUTY AREAS AND 96.5% FOR HEAVY DUTY AREAS.
2. PROPOSED 8 INCHES (LIGHT DUTY); 12 INCHES (HEAVY DUTY) OF CALICHE FLEXIBLE BASE MEETING REQUIREMENTS OF TXDOT 2014 SPECIFICATIONS ITEM 247 TYPE E, GRADE 3 OR BETTER AND INCLUDING A MAX PI OF 12, MAX WET BALL PI OF 12, WET BALL MILL MAX OF 50 AND WET BALL INCREASE, MAX PASSING NO. 40 SEIVE OF 20, ADD 1 ½ LIME BY WEIGHT. COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY (ASTM D698) WITH MOISTURE CONTENT BETWEEN MINUS 2 AND PLUS 2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
3. PROPOSED 8 INCHES (LIGHT DUTY); 12 INCHES (HEAVY DUTY) OF MOISTURE COMPACTED SUBGRADE SCARIFIED TO A DEPTH OF 8 INCHES (LIGHT DUTY); 12 INCHES (HEAVY DUTY) AND MOISTURE CONDITIONED WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D 648. LIME SHALL BE ADDED UNITL THE PH REACHES 12.4 WHEN TESTED IN ACCORDANCE WITH ASTM C 977 (ESTIMATED AT 6% LIME BY WEIGHT).

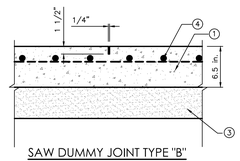
GENERAL NOTES:

A. CONCRETE CURB AND GUTTER SHALL BE PLACED ON AN APPROVED FOUNDATION CONFORMING TO THE REQUIREMENTS OF THE FLEXIBLE BASE SPECIFICATIONS
B. THE PERCENT OF DENSITY AS DETERMINED BY COMPACTION RATIO (TEX-113-E) FOR THE NEW FLEXIBLE BASE SHALL BE A MINIMUM OF 98%
C. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT CERTAIN EXISTING AND/OR PROPOSED STRUCTURES MAY BE WITHIN THE LIMITS OF THE FLEXIBLE BASE AND TREATED SUBGRADE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION OPERATIONS WITHOUT DAMAGE TO THESE STRUCTURES.
D. MOISTURE CONTENT ON FLEX BASE MATERIAL SHALL BE TESTED IN ACCORDANCE WITH (A.S.T.M. 1557 AND GT EX-103-E).
E. TREAT NEWLY CONSTRUCTED FLEX BASE SURFACE WITH MC-30 ASPHALT MATERIAL MEETING REQUIRMENT OF ITEM 300 (TxDOT STANDARD SPECIFICATIONS) AT A RATE OF 0.22 TO 0.50 GAL/SY BEFORE PLACEMENT OF H.M.A.C. SURFACE.
F. THE CONTRACTOR SHALL EXERCISE DILIGENCE IN THE APPLICATION OF ASPHALT BY THE USE OF FLAGGING AND ROLLING PROCEDURES TO KEEP FROM SPRAYING OR SPLATTERING THE TRAVELING PUBLIC WITH ASPHALTIC MATERIAL.
G. TACK COAT LAYER SHALL BE APPLIED BETWEEN H.M.A.C. LIFTS BETWEEN CONCRETE STRUCTURES AND ASPHALT AND SHALL BE SUBSIDIARY TO ASPHALT SURFACE COURSE ITEM.
H. TACK COAT BINDERS INCLUDE CSS-1H, SS-1H, AND PG 64-22.
J. ALL CONCRETE SHALL BE TYPE A(2004 TXDOT SPECS) AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS.
K. AT THE EXPENSE OF THE CONTRACTOR AND TO THE SATISFACTION OF THE ENGINEER, REMOVE AND REPLACE ANY HOT MIX ASPHALTIC CONCRETE SURFACE COURSE THAT DOES NOT BOND OR THAT HAS IRREGULARITIES SUCH AS SEGREGATION, RUTTING, RAVELING, FLUSHING FATSPOTS, MAT SLIPPAGE, COLOR, TEXTURE, ROLLER MARKS, TEARS, GOUGES, STREAKS, OR UNCOATED AGGREGATED PARTICLES OR SURFACE THAT DO NOT MEET TYPE A SURFACE RIDE QUALITY IN ACCORDANCE TO ITEM 585 OF TECHNICAL SPECIFICATIONS.
L. IF IT IS NECESSARY TO USE ADDITIVES TO THE FLEXIBLE BASE MATERIAL TO MEET STANDARD SPECIFICATIONS, THE AMOUNT OF THE ADDITIVE SHOULD BE LIMITED TO AVOID A RIGID BASE.
M. THE SPECIFIED PERCENT OF LIME IS FOR ESTIMATING AND PLANNING. THE ACTUAL QUANTITY OF LIME REQUIRED SHOULD BE DETERMINED AT THE TIME OF CONSTRUCTION BY LABORATORY TESTS ON BULK SAMPLES OF THE SUBGRADE SOILS.

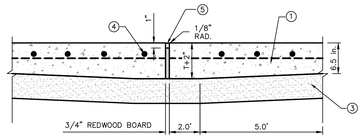
1 TYPICAL ASPHALT PARKING LOT PAVEMENT SECTION
NOT TO SCALE



EXPANSION JOINT TYPE "A"



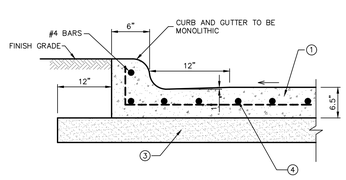
SAW DUMMY JOINT TYPE "B"



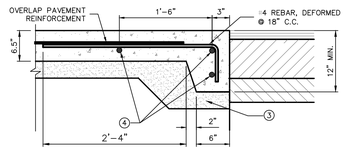
ISOLATION JOINT - TYPE "C"

SPACING OF CONTROL JOINTS IN FEET
SLUMP 4 TO 6 IN.

SLAB THICKNESS, IN.	MAXIMUM-SIZE AGGREGATE LESS THAN 3/4 IN.	MAXIMUM-SIZE AGGREGATE 3/4 IN. AND LARGER	SLUMP LESS THAN 4 IN.
5	10	12.5	15
6	12	15	18
7	14	18	21
8	16	20	24
9	18	23	27
10	20	25	30



CONCRETE PAVEMENT SECTION

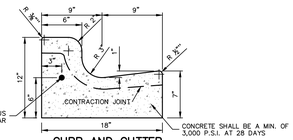


PAVEMENT TERMINATION DETAIL

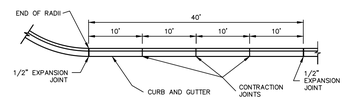
KEYED NOTES:

1. PROPOSED 6.5 INCHES REINFORCED CONCRETE PAVEMENT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGHT OF 4000 P.S.I. MATERIALS AND PROPERTIES SHALL MEET APPLICABLE REQUIREMENTS IN THE ACI MANUAL OF CONCRETE PRACTICE.
2. PROPOSED 4 INCHES CALICHE TREATED GRAVEL FLEXIBLE BASE MATERIAL COMPOSED OF CRUSHED OR UNCRUSHED GRAVEL TYPES B OR C GRADES 1-3 ITEM 247 (2014 TxDOT STANDARD SPECIFICATIONS) COMPACTED TO 98 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED MOISTURE-DENSITY RELATIONSHIP (A.S.T.M. 1557) AT MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM MOISTURE.
3. 12 INCHES OF COMPACTED STABILIZED SUBGRADE TREATED WITH 2 PERCENT LIME IN ACCORDANCE TO ITEM 260 (2004 TxDOT STANDARD SPECIFICATIONS) COMPACTED TO 95 PERCENT OF THE STANDARD EFFORT (ASTM D648) MAXIMUM DRY DENSITY WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
4. REINFORCEMENT SHALL CONSIST OF THE FOLLOWING: NUMBER 4 BARS SPACED AT 18 INCHES ON CENTER IN BOTH DIRECTIONS
5. EXPANSION SILICONE JOINT FILLER/SEALER.
6. 80 MM TRAFFIC RATED CONCRETE PAVERS BY INOVATIVE BLOCK OR APPROVED EQUAL.
7. JOINT SAND FILLER MATERIAL AS PER MANUFACTURER'S RECOMMENDATIONS AND TO CONFORM TO GRADING REQUIREMENTS OF ASTM C 144.
8. 1 TO 1¼ INCH BEDDING SAND MATERIAL CONFORMING WITH GRADING REQUIREMENTS OF ASTM C 33.
9. 8 INCH WIDE PRECAST FIBER REINFORCED POLYMER BODY TRENCH DRAIN SYSTEM WITH HEAVY DUTY STEEL FRAME AND TRAFFIC RATED ADA APPROVED 10 INCH WIDE DUCTILE IRON GRATE BY DURATRENCH (MODEL DTPF-0.5-10C24CI-HDP). OR APPROVED EQUAL

2 TYPICAL REINFORCED CONCRETE PAVEMENT SECTION & JOINT DETAILS
NOT TO SCALE



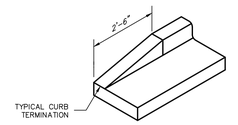
CURB AND GUTTER



TYPICAL JOINTS

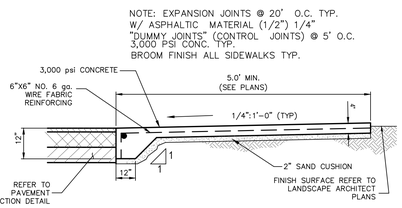
GENERAL NOTES:
1. ALL CONCRETE WORK SHALL BE TREATED WITH MEMBRANE CURING COMPOUND TYPE 2 WHITE PIGMENTED IN ACCORDANCE w/ THD 1972 SPECIFICATIONS ITEM 531. CONSIDERED INCIDENTAL TO CONCRETE WORK.
2. 1/2" EXPANSION JOINTS REQUIRED AT 40' c.c. AND AT THE BEGINNING AND END OF ALL RADII. CONTRACTION JOINTS SHALL NOT EXCEED 10' c.c.

3 CURB AND GUTTER DETAIL

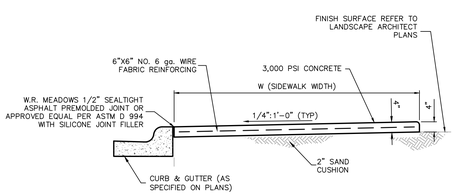


NOTES:
1. PROVIDE 1/2" EXPANSION JOINT @ 10'-0" O.C. 2. ALL EXPOSED SURFACES SHALL BE STRIPPED GREEN TROWELD AND CURB EDGING RUBBED SMOOTH.
2. 3,000 psi CONCRETE

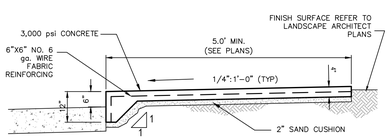
4 TYPICAL CURB TERMINATION
NOT TO SCALE



TYPE "A" SIDEWALK DETAIL

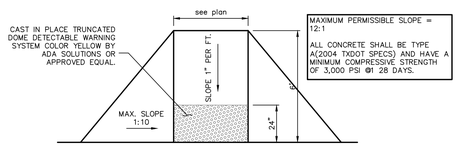


TYPE "B" SIDEWALK DETAIL

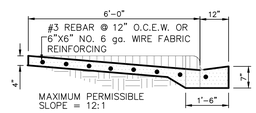


TYPE "C" SIDEWALK DETAIL

5 SIDEWALK DETAILS
NOT TO SCALE

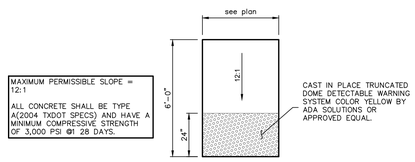


SIDEWALK RAMP ALONG CURB DETAIL



USE 3,000 PSI CONCRETE

SECTION VIEW
NOT TO SCALE



SIDEWALK RAMP

6 SIDEWALK RAMP DETAILS
NOT TO SCALE

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871 OLD ALICE ROAD
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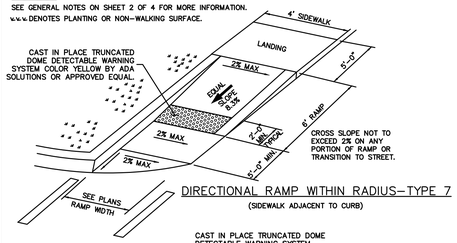
REVISED	

C105
TYPICAL DETAILS

NOTES:

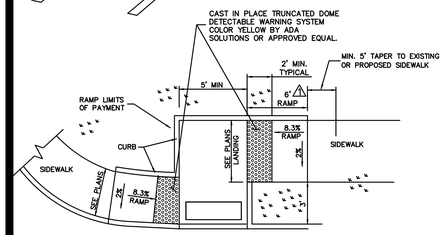
SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.

▭ DENOTES PLANTING OR NON-WALKING SURFACE.

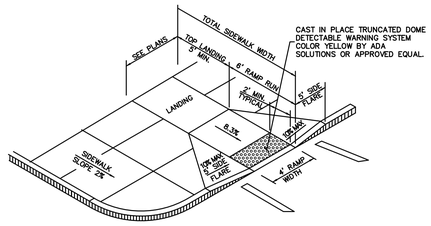


DIRECTIONAL RAMP WITHIN RADIUS–TYPE 7

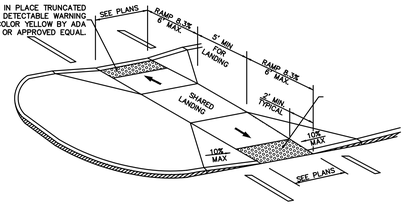
(SIDEWALK ADJACENT TO CURB)



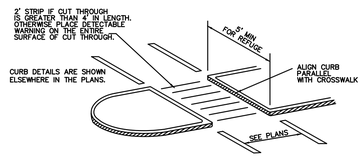
OFFSET PARALLEL CURB RAMP–TYPE 11



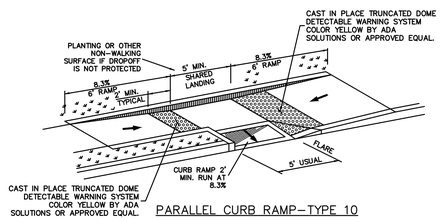
PERPENDICULAR CURB RAMP–TYPE 5



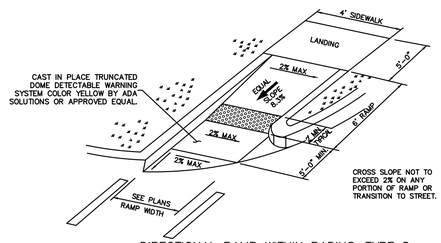
CURB RAMP AT MEDIAN ISLANDS–TYPE 12



CURB RAMP AT MEDIAN ISLANDS–TYPE 13

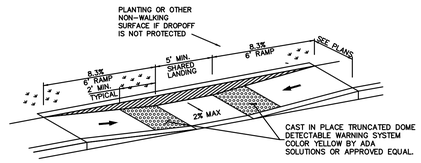


PARALLEL CURB RAMP–TYPE 10



DIRECTIONAL RAMP WITHIN RADIUS–TYPE 8

(SIDEWALK SET BACK FROM CURB)

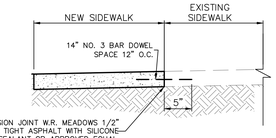


PARALLEL CURB RAMP–TYPE 6

(USE ONLY WHERE WATER WILL NOT POND IN THE LANDING.)

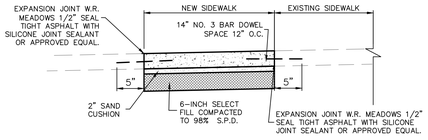
1 HANDICAP RAMP DETAIL

NOT TO SCALE



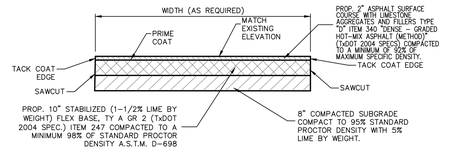
2 EXISTING SIDEWALK CONNECTION

NOT TO SCALE



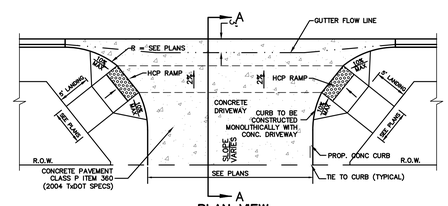
3 SIDEWALK REPAIR DETAIL

NOT TO SCALE

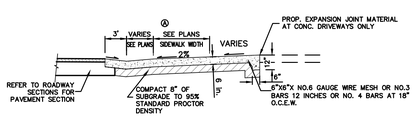


4 PAVEMENT REPAIR DETAIL

NOT TO SCALE



PLAN VIEW



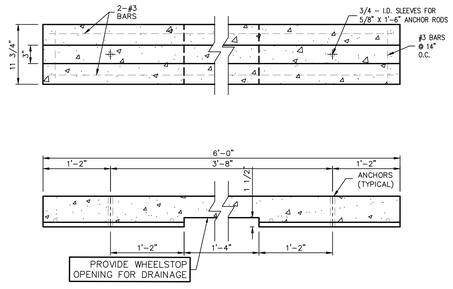
PROFILE VIEW (A–A)

Ⓐ KEEP MAX 2% SLOPE AT SIDEWALK LOCATIONS.

Ⓑ CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN FOR CONCRETE PAVEMENT FOR APPROVAL BY ENGINEERS

5 TYPICAL CONCRETE DRIVEWAY DETAIL

NOT TO SCALE

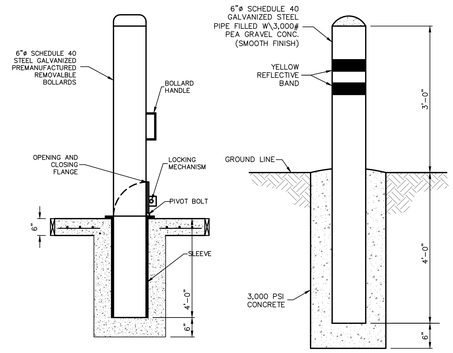


END VIEW

ANCHOR ROD

6 WHEEL STOP DETAIL

NOT TO SCALE

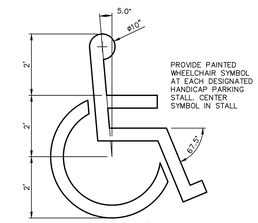


REMOVABLE

NON–REMOVABLE

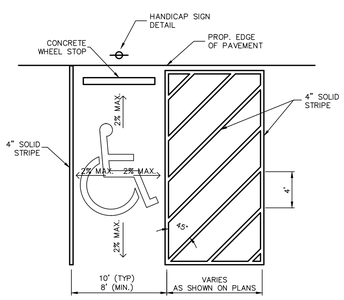
7 REMOVABLE BOLLARD DETAIL

NOT TO SCALE



8 WHEEL CHAIR SYMBOL DETAIL

NOT TO SCALE



9 HANDICAPPED PARKING SPACE DETAIL

NOT TO SCALE

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST. SUITE 330
McALLEN, TX 78503
956 . 994.1900
twgarch.com

STATE OF TEXAS
J. DAVID PEREZ
85429
LICENSED PROFESSIONAL ENGINEER
5-17-19

REVISION	DATE	APPROVED BY	DESCRIPTION

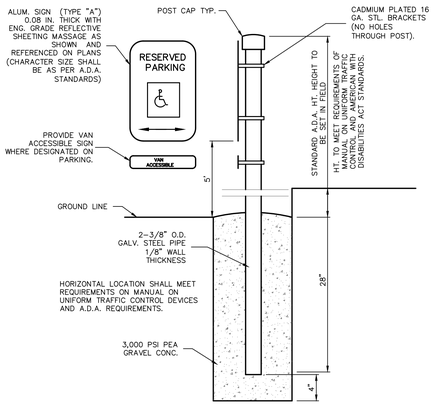
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

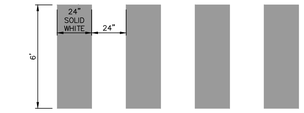
871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT TWG18130
DATE 05/17/2019
REVISED

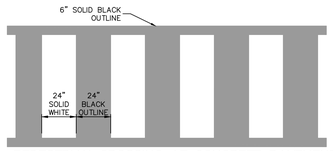
C106
TYPICAL DETAILS



1 HANDICAP SIGN DETAIL
NOT TO SCALE

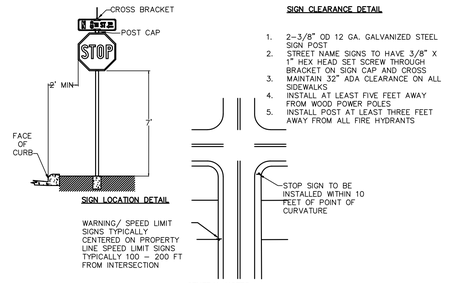


PEDESTRIAN CROSSING AT ASPHALT SURFACE



PEDESTRIAN CROSSING AT CONCRETE PAVEMENT

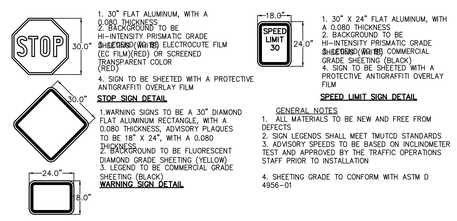
2 CROSSWALK DETAIL
NOT TO SCALE



GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING SPRINKLERS AND UTILITIES PRIOR TO INSTALLATION
2. SIGN SHALL BE INSTALLED ACCORDING TO APPROVED PLAN SHEETS
3. ANY DAMAGE TO EXISTING FENCES, WALLS, OR PRIVATE PROPERTY SHALL BE REPAIRED BY AND AT THE EXPENSE OF THE CONTRACTOR
4. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING PREINSTALLATION AND POST INSTALLATION INSPECTS THROUGH THE CITY'S DESIGNATED INSPECTOR 24 HOURS PRIOR TO INSPECTION DURING NORMAL WORKING HOURS, MONDAY THROUGH FRIDAY

3 SIGN LOCATION STANDARDS DETAIL
NOT TO SCALE



1. 30" FLAT ALUMINUM, WITH A 0.080 THICKNESS
2. BACKGROUND TO BE HI-INTENSITY PRISMATIC GRADE SHEETING (WHITE) ELECTROCUTE FILM (EC FILM)(RED) OR SCREENED TRANSPARENT COLOR (RED)
4. SIGN TO BE SHEETED WITH A PROTECTIVE ANTIGRAFFITI OVERLAY FILM

STOP SIGN DETAIL

1.WARNING SIGNS TO BE A 30" DIAMOND FLAT ALUMINUM RECTANGLE, WITH A 0.080 THICKNESS, ADVISORY PLAQUES TO BE 18" X 24", WITH A 0.080 THICKNESS
2. BACKGROUND TO BE FLUORESCENT DIAMOND GRADE SHEETING (YELLOW)
3. LEGEND TO BE COMMERCIAL GRADE SHEETING (BLACK)

WARNING SIGN DETAIL

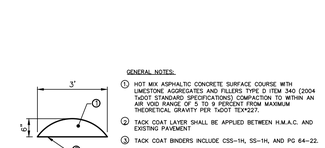
1. 30" X 24" FLAT ALUMINUM, WITH A 0.080 THICKNESS
2. BACKGROUND TO BE HI-INTENSITY PRISMATIC GRADE SHEETING (WHITE) COMMERCIAL GRADE SHEETING (BLACK)
4. SIGN TO BE SHEETED WITH A PROTECTIVE ANTIGRAFFITI OVERLAY FILM

SPEED LIMIT SIGN DETAIL

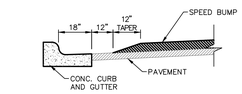
GENERAL NOTES

1. ALL MATERIALS TO BE NEW AND FREE FROM DEFECTS
2. SIGN LEGENDS SHALL MEET TMUTCD STANDARDS
3. ADVISORY SPEEDS TO BE BASED ON INCLINOMETER TEST AND APPROVED BY THE TRAFFIC OPERATIONS STAFF PRIOR TO INSTALLATION
4. SHEETING GRADE TO CONFORM WITH ASTM D 4956–01

4 SIGN MATERIAL STANDARDS DETAIL
NOT TO SCALE

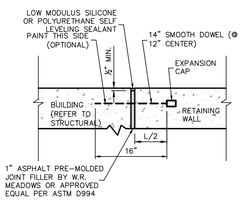


SPEED BUMP

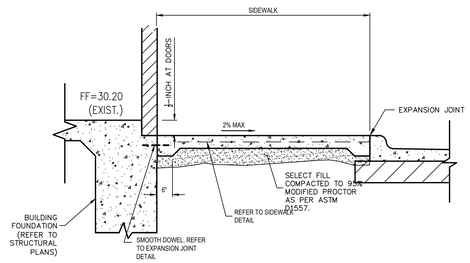


SPEED BUMP LOCATION

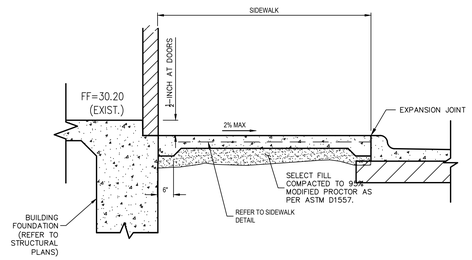
5 SPEED BUMP DETAIL
NOT TO SCALE



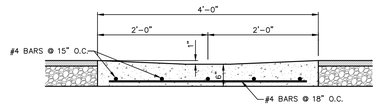
6 ISOLATION JOINT DETAIL
NOT TO SCALE



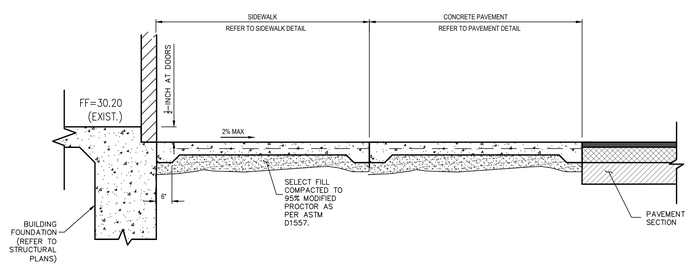
7 TYPICAL SECTION AT DOORS
NOT TO SCALE



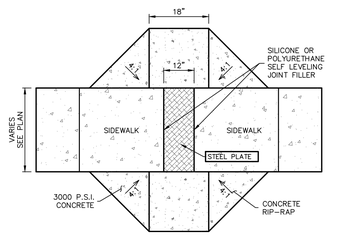
9 TYPICAL SECTION
NOT TO SCALE

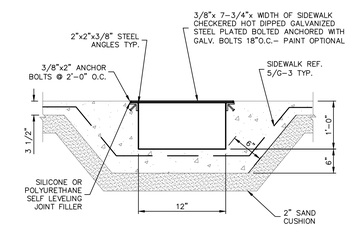


10 TYPICAL 4-FT VALLEY GUTTER DETAIL
NOT TO SCALE



8 TYPICAL SECTION
NOT TO SCALE





11 1' SIDEWALK DRAIN
NOT TO SCALE

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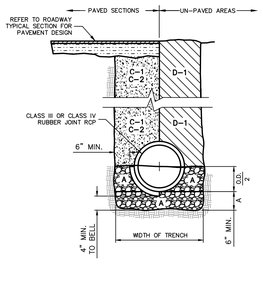
PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C107
TYPICAL DETAILS



GENERAL NOTES:

1. BACKFILL THE EXCAVATION AFTER PAVEMENT OF THE PERMANENT STRUCTURE. USE BACKFILL FREE FROM STONES LARGE ENOUGH TO INTERFERE WITH COMPACTION; LARGE OR FROZEN JUMPS THAT WILL NOT BRAKE DOWN READILY UNDER COMPACTING; A WOOD OR OTHER EXTRANEOUS MATERIAL. OBTAIN BACKFILL MATERIAL FROM EXCAVATION OR FROM OTHER SOURCES. CONTRACTOR SHALL REFER TO SECTION 02221 OF SPECIFICATIONS. BEFORE CONSTRUCTION.

2. WIDTH OF TRENCH

INSIDE DIAMETER OF PIPE (INCHES)	WIDTH OF TRENCH AT TOP OF PIPE (INCHES)
12 – 33	O.D. + 16
36 – 78	O.D. + 24
80 AND LARGER	O.D. + 30

3. PROVIDE PRECAST REINFORCED CONCRETE PIPE THAT CONFORMS TO THE DESIGN SHOWN ON THE PLANS AND TO ASTM C76

4. BACKFILL SHALL BE CLEAR OF ORGANIC MATERIALS, CONSTRUCTION DEBRIS OR TRASH. IT SHALL MEET THE FOLLOWING STANDARDS.

A. – ANGULAR CRUSHED STONE OR ROCK OR CRUSHED GRAVEL. 100% PASSING 1 1/2" SIEVE, LESS THAN 10% PASSING NO. 4 SIEVE AND LESS THAN 5% PASSING NO. 200 SIEVE.

C–1 SELECT BACKFILL OR COHESIONLESS MATERIAL / SAND

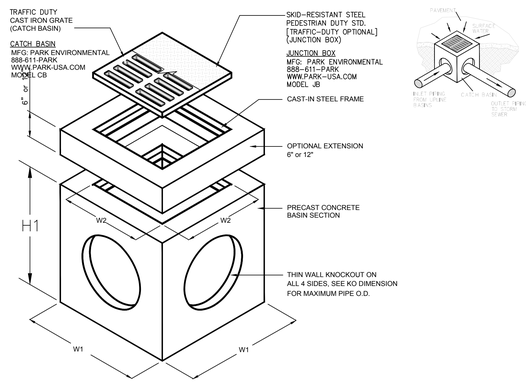
SELECT BACKFILL – EXCAVATED MATERIAL BACKFILL OR CLEAN LOCAL MATERIAL CONSISTENT WITH THE SURROUNDING EARTH MATERIAL MAY BE USED (REFER TO SECTION 02221 OF SPECIFICATIONS) . PLACE BACKFILL IN UNIFORM LAYERS AT MOST 10 IN. DEEP (LOOSE MEASUREMENT) COMPACT EACH LAYER TO 95% STD PROCTOR DENSITY (ASTM D–698 & ASTM 4253) BRING EACH LAYER OF BACKFILL MATERIAL TO THE MOISTURE CONTENT NEEDED TO OBTAIN THE REQUIRED DENSITY. COMPACT EACH LIFT MECHANICALLY (ROLLERS MAY BE USED IF FEASIBLE).

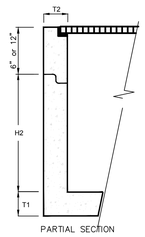
COHESIONLESS MATERIAL / SAND – USE WELL GRADED OR POORLY GRADED SANDS WITH MORE THAN 50% PASSING No. 4 SIEVE BUT LESS THAN 12% PASSING No. 200 SIEVE AND HAVE A PLASTICITY INDEX LESS THAN 4. PLACE SAND IN UNIFORM LAYERS AT MOST 10 IN. DEEP. COMPACT MATERIAL USING VIBRATORY EQUIPMENT OR MECHANICAL EQUIPMENT. WATER POUNDING / WATER JETTING WILL BE ALLOWED ONLY IF APPROVED IN WRITING BY THE CITY OR ENGINEER. (ASTM D–1557 OR TX 113–E)

C–2 SAND CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT, AS PER ITEM 400 SECTION 400.3.C OF THE 2000 TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

D–1 SELECT BACKFILL – PLACE BACK FILL IN UNIFORM LAYERS AT MOST 12 IN. DEEP. COMPACT EACH LAYER TO 90% STD PROCTOR DENSITY. COMPACT EACH LIFT MECHANICALLY (ROLLERS MAY BE USED IF FEASIBLE).

1 TYPICAL REINFORCED R.C.P. STORM SEWER TRENCH DETAIL
NOT TO SCALE



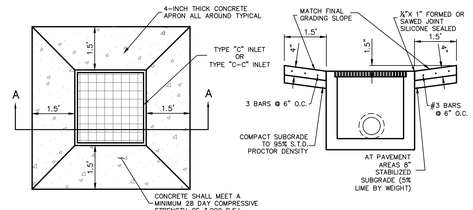


PARTIAL SECTION

MODEL	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	OPEN AREA	WEIGHT LBS
CB–12	15"	10"	21"	18"	3"	21"	10"	12"x12"x1"	90	180
CB–14	20"	12"	28"	24"	4"	4"	12"	14"x14"x1½"	120	600
CB–18	24"	16"	34"	30"	4"	4"	15"	18"x18"x1½"	168	1,000
CB–20	26"	18"	34"	30"	4"	4"	17"	20"x20"x1½"	170	1,335
CB–24	32"	22"	41"	36"	5"	5"	22"	24"x24"x2"	268	2,245
CB–27	37"	25"	42"	36"	6"	6"	24"	27"x27"x2"	350	2,875
CB–30	42"	30"	42"	36"	6"	6"	30"	32"x32"x2"	490	3,675
CB–36	48"	36"	42"	36"	6"	6"	32"	38"x38"x2"	693	4,585
CB–48	60"	48"	54"	48"	6"	6"	48"	38"x38"x2"	693	7,250
*CB–60	72"	60"	66"	60"	6"	6"	60"	38"x38"x2"	693	10,500
*CB–72	84"	72"	78"	72"	6"	6"	72"	38"x38"x2"	693	15,350
*CB–84	96"	84"	78"	72"	6"	6"	72"	38"x38"x2"	693	19,500

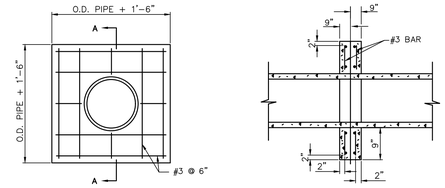
*KNOCKOUTS NOT AVAILABLE

2 PRECAST TY. C GRATE INLET (PARK OR APPROVED EQUAL)
NOT TO SCALE



SECTION A–A

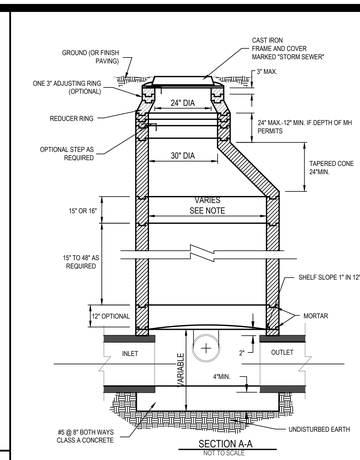
3 CONCRETE APRON AT GRATE INLET DETAIL
NOT TO SCALE



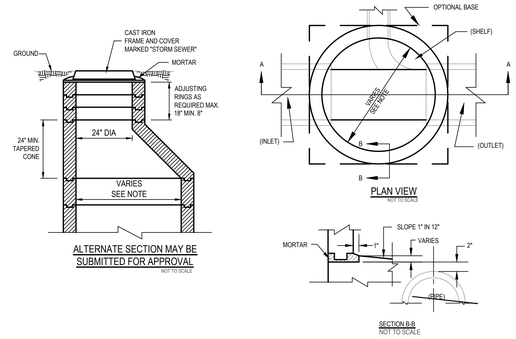
FRONT ELEVATION

SECTION A–A

4 CONCRETE PIPE COLLAR DETAIL
NOT TO SCALE

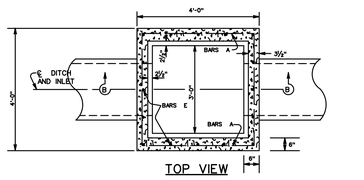


SECTION A-A

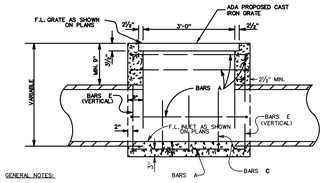


ALTERNATE SECTION MAY BE SUBMITTED FOR APPROVAL

5 PRECAST CONCRETE STORM SEWER MANHOLE
NOT TO SCALE



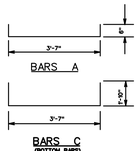
TOP VIEW



GENERAL NOTES:
1. TY "C" INLET TO BE USED FOR PIPES LESS OR EQUAL TO 24"
2. USE GALVANIZED STEEL IN ALL INLET GRATES.

SECTION B-B

INLET TY "C"

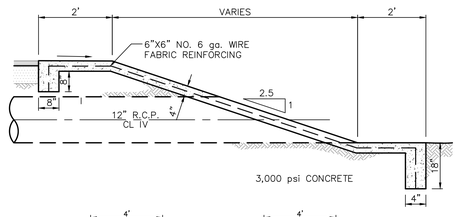


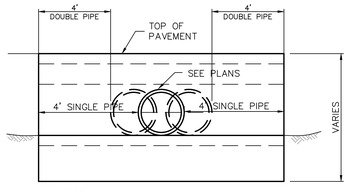
BARS C (BOTTOM BARS)

REINFORCING STEEL DETAILS

NOTE: ALL STEEL TO BE NO. 4 BARS ON 12" SPACING IN BOTH DIRECTIONS

6 TYPE "C" INLET DETAIL (CAST IN PLACE)
NOT TO SCALE



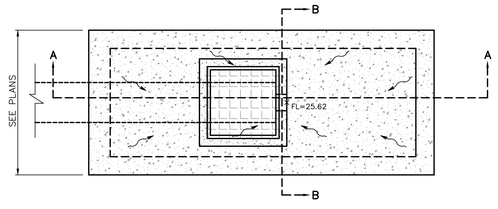


NOTE:
THE CONTRACTOR MAY USE CEMENT BAG–TYPE RIP–RAP IN LIEU OF REINFORCED CONCRETE AS SHOWN.

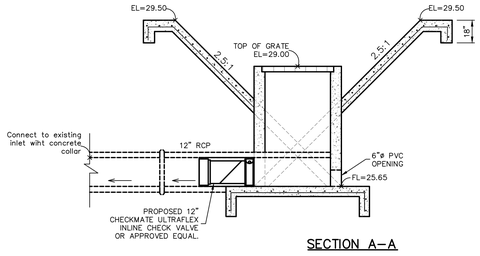
7 CONCRETE SLOPED-END TREATMENT DETAIL
NOT TO SCALE

REINFORCING:
No. 3 BARS @ 5 1/2" O.C.E.W.
CONCRETE:
6" SACK 4,000 P.S.I. MIN.
"H" DIMENSION AVAILABLE IN 6" INCREMENTS FROM 3'–0" TO 8'–0"

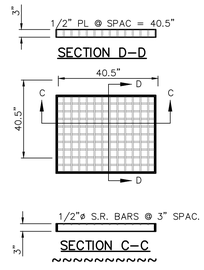
APPROXIMATE WEIGHT 1,300# PER VERT. FOOT

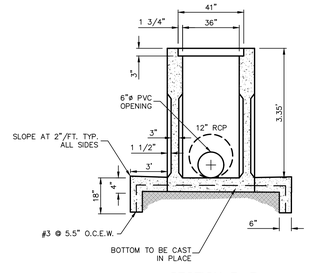


PLAN VIEW



SECTION A–A





SECTION B–B

8 DRAINAGE CONTROL OUTLET STRUCTURE DETAIL
NOT TO SCALE

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REVISION	DATE	APPROVED BY	DESCRIPTION

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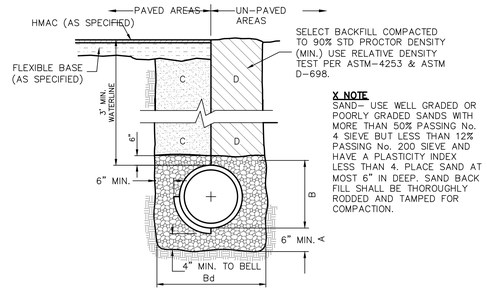
PROJECT TWG18130
DATE 05/17/2019
REVISED

C108
TYPICAL DETAILS



X NOTE
SAND- USE WELL GRADED OR POORLY GRADED SANDS WITH MORE THAN 50% PASSING No. 4 SIEVE BUT LESS THAN 12% PASSING No. 200 SIEVE AND HAVE A PLASTICITY INDEX LESS THAN 4. PLACE SAND AT MOST 6" IN DEEP. SAND BACK FILL SHALL BE THOROUGHLY RODDED AND TAMPED FOR COMPACTION.

A CLEAN SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS=6")

B CLEAN SAND PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO 6" ABOVE PIPE. Bd TRENCH WIDTHS SHALL BE PIPE O.D. + 12" OR IN ACCORDANCE WITH ASTM 2321 FOR PVC PIPE AND ASTM C12 (LATEST) FOR VITRIFIED CLAY PIPE.

C CLEAN SAND PLACED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE BASE. COMPACTED TO 95% MOD. PROCTOR DENSITY TO BE PLACED AT 6" LIFTS.

D SELECT EARTH BACKFILL COMPACTED TO 90% STD PROCTOR DENSITY (8" LIFTS, MECHANICAL COMPACTION) FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

1 TYPICAL WATERLINE,SAN. SEWER AND PVC PIPE BEDDING DETAIL
NOT TO SCALE

"X" DIMENSION MAY VARY TO PROVIDE REQ'D BEARING AGAINST UNDISTURBED EARTH.

HORIZONTAL BLOCKING TABLE							
BEARING AREA OF BLOCK IN SQUARE FEET							
PIPE SIZE (IN)	DEAD END AND TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND	5° BEND	"X"-DIM FT.
6	4.24	6.00	3.25	1.65	0.83	0.37	1.00
8	7.54	10.66	5.77	2.94	1.48	0.66	1.00
10	11.78	16.66	9.02	4.60	2.31	1.03	1.25
12	16.96	23.99	12.98	6.62	3.33	1.48	1.25
14	30.79	43.54	23.56	12.01	6.04	2.69	1.50
16	40.20	56.67	30.78	15.69	7.88	3.51	1.75

NOTES:
1. THRUST BLOCK AREAS SHOWN ARE BASE ON TEST PRESSURES OF 150 P.S.I FOR 6"-12" PIPE AND 200 P.S.I. FOR 14"-16" PIPE AND SOIL BEARING PRESSURE OF 1000 PSF.

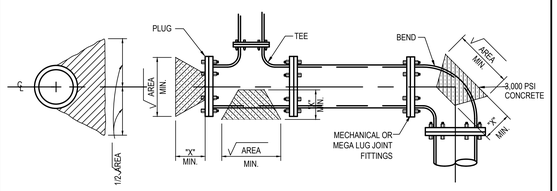
2. MINIMUM AREAS SHOWN ARE IN SQUARE FEET.

3. BEARING MUST BE ON UNDISTURBED EARTH.

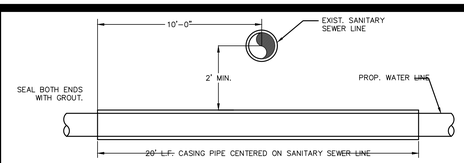
4. ADJUST THRUST BLOCK AREAS ACCORDINGLY IF PRESSURES AND/OR SOIL BEARING VALUE VARIES.

5. THRUST BLOCKING TO BE PLACED AT ALL DEAD ENDS AND TEES. AT ALL BENDS, AND OTHER AREAS WHICH MAY REQUIRE THRUST RESISTANCE AS APPROVED BY THE ENGINEER.

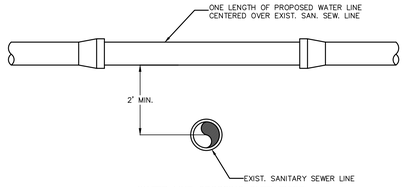
6. USE 3,000 PSI CONCRETE.



2 CONCRETE THRUST BLOCKS
NOT TO SCALE

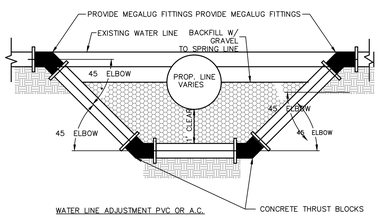


WATER LINE CROSSING OVER EXIST. SANITARY SEWER LINE



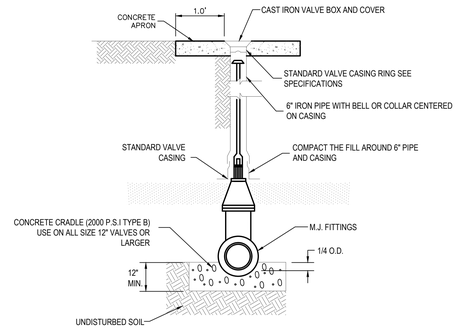
WATER LINE CROSSING OVER EXIST. SANITARY SEWER LINE

4 WATER LINE CROSSING DETAIL
NOT TO SCALE

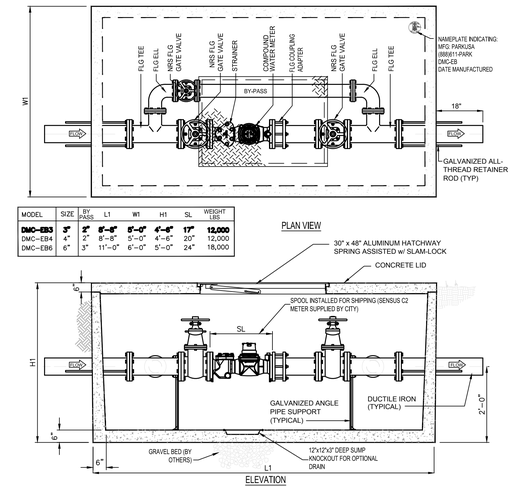


NOTE:
ALL BENDS AND JOINTS MUST BE SUPPORTED BY A CONC. THRUST BLOCK, APPROVED EQUAL OR AS DIRECTED BY ENGINEER

3 WATER LINE ADJUSTMENT DETAIL
NOT TO SCALE

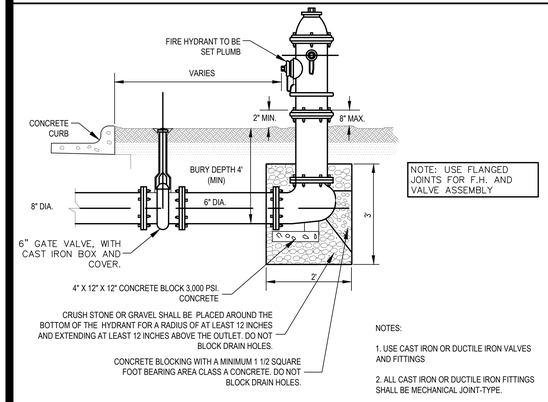


5 TYPICAL GATE VALVE DETAIL
NOT TO SCALE



MODEL	SIZE	BY PASS	L1	W1	H1	SL	WEIGHT LBS
DMC-EB3	3"	2"	8'-6"	5'-0"	4'-6"	17"	12,000
DMC-EB4	4"	2"	8'-8"	5'-0"	4'-6"	20"	12,000
DMC-EB6	6"	3"	11'-0"	6'-0"	5'-0"	24"	18,000

6 3" DOMESTIC BACKFLOW PREVENTER ASSEMBLY
BELOW GROUND
NOT TO SCALE



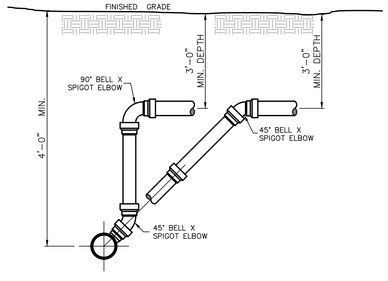
NOTE: USE FLANGED JOINTS FOR F.H. AND VALVE ASSEMBLY

NOTES:

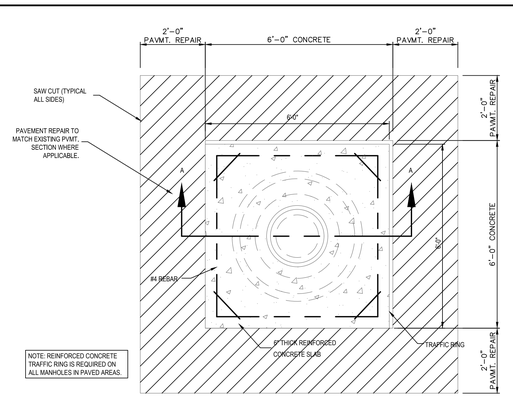
1. USE CAST IRON OR DUCTILE IRON VALVES AND FITTINGS

2. ALL CAST IRON OR DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT-TYPE.

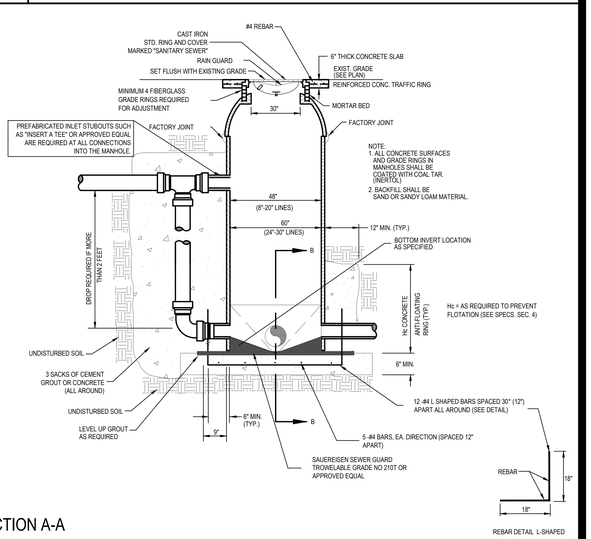
7 FIRE HYDRANT INSTALLATION DETAIL
NOT TO SCALE



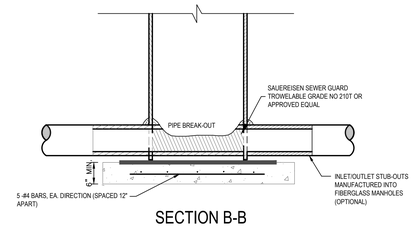
9 TYPICAL DEEP SANITARY SEWER SERVICE CONNECTION
NOT TO SCALE



NOTE: REINFORCED CONCRETE TRAFFIC RING IS REQUIRED ON ALL MANHOLES IN PAVED AREAS.

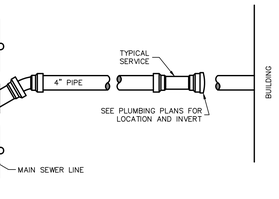


SECTION A-A



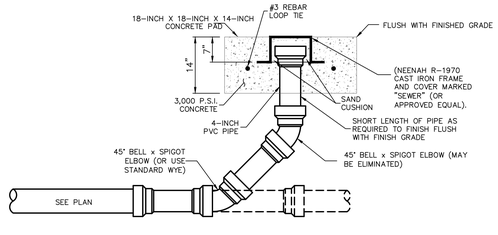
SECTION B-B

11 TYPICAL SANITARY SEWER FIBERGLASS MANHOLE DETAIL
NOT TO SCALE



NOTE:
A SOUND DETECTION REFLECTOR "STUB-DEC-TA-CAL" BY GRIFFOLYN, INC. OR AN APPROVED SUBSTITUTE, WILL BE FASTENED TO THE END OF EACH SERVICE CONNECTION STUB TO FACILITATE LOCATION SERVICE STUBS.

8 PLAN-SINGLE SANITARY SEWER SERVICE
NOT TO SCALE



10 STANDARD EXTERIOR CLEANOUT
NOT TO SCALE

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST. SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

STATE OF TEXAS
J. DAVID PEREZ
85429
LICENSED PROFESSIONAL ENGINEER
5-17-19

REVISION	DATE	APPROVED BY	DESCRIPTION

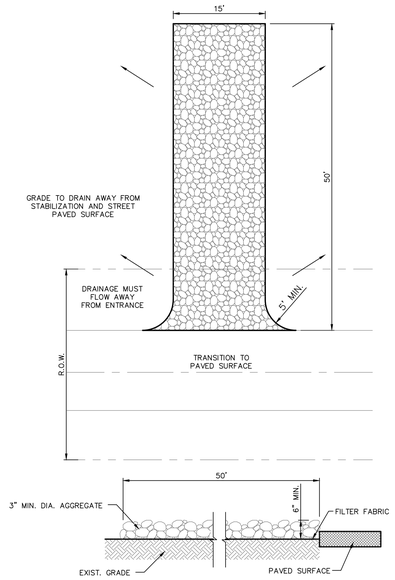
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

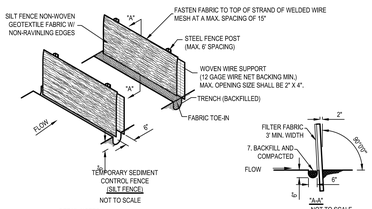
871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT	TWG18130
DATE	05/17/2019
REVISED	

C109
TYPICAL DETAILS



1 STABILIZED CONSTRUCTION ENTRANCE / EXIT
NOT TO SCALE



DETAIL NOTES:

1. STEEL POSTS THAT SUPPORT THE SILT FENCE SHALL BE INSTALLED AT EACH CORNER AND IN BETWEEN CORNERS IF THE DISTANCE IS GREATER THAN 6' BETWEEN CORNER POSTS.

2. USE SILT FENCE DETAIL FOR INSTALLATION OF THE SILT FENCE AROUND THE EXISTING OR NEW AREA INLET.

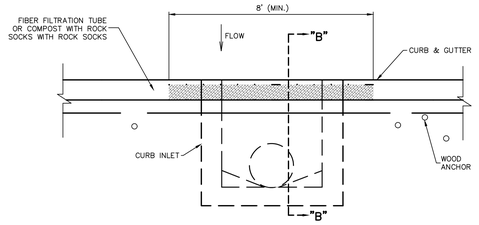
3. THE METAL AREA INLET GRATE SHALL BE LIFTED AND FILTER FABRIC WRAPPED AROUND THE GRATE AND THE GRATE SHALL BE REPLACED.

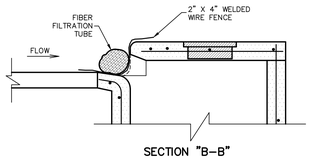
4. IN VEHICULAR TRAFFIC AREAS METAL GRATE SHALL BE LIFTED OUT AND WIRE FENCE MATERIAL SHALL BE PLACED UNDER IT WITH FILTER FABRIC PLACED BETWEEN THE GRATE AND THE WIRE FENCE. THE WIRE FENCE SHALL THEN BE ATTACHED TO THE GRATE.

5. ACCUMULATED SILT SHALL BE REMOVED WHEN THE FILTER FABRIC OVER THE GRATE COMPLETELY COVERS THE GRATE AREA, AND THE SILT AROUND THE SILT FENCE REACHES A HEIGHT OF 6".

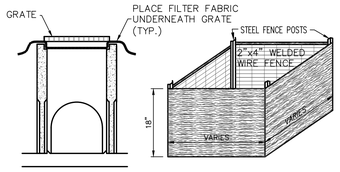
6. AREA INLET PROTECTION SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED.

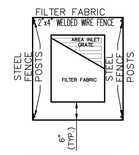
2 TEMPORARY SEDIMENT CONTROL FENCE (SILT FENCE) DETAIL
NOT TO SCALE





SECTION "B–B"





INLET DETAIL

3 TEMPORARY INLET PROTECTION DETAIL
NOT TO SCALE

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST. SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

STATE OF TEXAS
J. DAVID PEREZ
89429
LICENSED PROFESSIONAL ENGINEER
5-17-19

REVISION	DATE	APPROVED BY	DESCRIPTION

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS 78520

PROJECT TWG18130
DATE 05/17/2019
REVISED

C110
EROSION CONTROL DETAILS

GENERAL NOTES

1. THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW ITEMS.
2. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS.
3. THE CONTRACTOR SHALL Verify ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING. ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. IN CASE OF CONFLICT; NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
5. WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION.
6. EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED.
7. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.
8. THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION.
9. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
10. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER.
11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT.
12. THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS.
13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER.
14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK.
15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

DESIGN CRITERIA

DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED UPON THE FOLLOWING CRITERIA:

1. CODE: IBC 2015
2. LATERAL LOADS
   - A. WIND SPEED (V_{3s}): 145 MPH
   - B. EXPOSURE CATEGORY: C
   - C. IMPORTANCE FACTOR: 1.0
   - D. BUILDING CATEGORY: II
   - E. SEISMIC DESIGN CATEGORY: A
   - F. SITE CLASS: D
   - G. SEISMIC COEFFICIENTS: D
     - Ss 0.056 g
     - S1 0.014 g
     - Fa 2.5
     - Fv 3.5
     - Sms 0.140 g
     - Sm1 0.050 g
     - Sds 0.093 g
     - Sd1 0.033 g
3. VERTICAL LOADS
   - ROOF:
     - A. COLLATERAL LOAD: 0 PSF
     - B. DEAD LOAD: ACTUAL WEIGHT PSF
     - C. LIVE LOAD: (REDUCIBLE) 20 PSF
     - D. WIND UPLIFT LOAD (NET): as determined by ASCE 7-10 PSF
     - E. GROUND SNOW LOAD: 0 PSF
     - F. CRANE LOADS: NONE
     - G. MECHANICAL UNITS SEE PLANS
   - FLOOR:
     - A. DEAD LOAD: 50 PSF
     - B. LIVE LOAD, OFFICE: 50 PSF
     - C. LIVE LOAD, LIGHT STORAGE 125 PSF
     - D. LIVE LOAD, HEAVY STORAGE: 250 PSF
     - E. LIVE LOAD, CLASSROOM: 40 PSF
     - F. LIVE LOAD, CORRIDOR: 100 PSF
     - G. MECHANICAL UNITS SEE MECHANICAL PLANS
4. SUBSURFACE INFORMATION
   - A. PREPARED BY: MEG
     PROJECT NO.: 01-19-29134
     DATE: April 25, 2019
   - B. SHALLOW FOUNDATION
     - MINIMUM FOOTING DEPTH: 24 INCHES
     - MINIMUM FOOTING WIDTH: 12 INCHES
     - ALLOWABLE BEARING PRESSURE (CONTINUOUS FOOTINGS): 2000 PSF
     - ALLOWABLE BEARING PRESSURE (ISOLATED FOOTINGS): 2400
   - C. WIRE REINFORCEMENT INSTITUTE (WRI) CRITERIA
     - CLIMATIC RATING (Cw) 15
     - EFFECTIVE PLASTICITY INDEX (UNDISTURBED, NATIVE SOIL) 45
     - EFFECTIVE PLASTICITY INDEX (SITE IMPROVED SOIL) 29
     - PVR (UNDISTURBED SOIL) 4 INCHES
     - PVR (WITH SITE IMPROVEMENT) 1.0 INCH

SHOP DRAWINGS AND SUBMITTALS

1. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION
2. SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN NO REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS.
3. SUBMIT SHOP DRAWINGS IN PDF FORMAT.
4. SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE SAME PLAN.
5. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION.
6. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.
7. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUB-CONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING.
8. CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW.
9. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE NUMBER 3 UNDER GENERAL NOTES.
10. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEF THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS.
11. IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS, THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN. INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.
12. PROVIDE SUBMITTALS FOR THE FOLLOWING ITEMS:

ITEM	REQUIRED
A. CONCRETE MIX DESIGN	X
B. CURING COMPOUND FOR CONCRETE	X
C. REINFORCING STEEL	X
D. STRUCTURAL STEEL	
E. STEEL JOIST	
F. METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPENINGS, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.)	
G. PRE-MANUFACTURED METAL BUILDING (INCLUDE CALC'S & REACTIONS)	
H. PRE-MANUFACTURED WOOD TRUSSES	

REINFORCING STEEL

1. BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1. GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER.
2. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED.
3. VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR DIAMETERS OR 48" O.C. WHICH EVER IS LESS. IN MASONRY CONSTRUCTION, THE REINFORCEMENT SHALL BE SECURED IN PLACE WITH REBAR SPACERS AND SHALL NOT BE SPACED APART MORE THAN 48 INCHES ON CENTER.
4. WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
5. WALLS, PILASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PILASTER, OR COLUMNS.
6. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). PLASTIC CHAIRS ARE NOT ALLOWED. FOR SLAB ON GRADE AND GRADE BEAMS, USE CONCRETE BRICK CHAIRS.
7. REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WiTH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
8. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT; INCLUDING EXTERIOR DOWELS FOR CMU OR CONCRETE WALLS.
9. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS.
10. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES.
11. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
12. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS.
13. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB.
14. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
15. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE PERFORMED IN ACCORDANCE WiTH THE "STRUCTURAL WELDING CODE REINFORCING STEEL" ON THE AMERICAN WELDING SOCIETY, AWS D1.4-96 AS INCORPORATED IN CBC CHAPTER No. 19, AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN, E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT. REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FORM THE CHEMICAL COMPOSITION AS SHOWN IN THE MiLL TEST REPORT. IF MiLL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER IBC CHAPTER 19, A COPY OF THE MiLL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING).
16. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.
17. CONCRETE COVER FOR REINFORCING AS FOLLOWS:

EXPOSURE CONDITION	MINIMUM COVER	TOLERANCE
DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINST GROUND:	3"	3/8"
WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS, ARE EXPOSED TO WEATHER OR GROUND:		
FOR BARS 5/8" IN DIAMETER	2"	1/4"
FOR BARS 5/8" OR LESS IN DIAMETER	1 1/2"	1/4"
WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR GROUND:		
FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	1/4"
FOR BEAMS, COLUMNS	1 1/2"	1/4"
FOR JOISTS AND SLABS	1"	1/8"

18. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.)
GRADE 40: LAP 48 DIA. (24" MIN.)

CONCRETE - LAP PER SCHEDULE BELOW

BAR SPLICE LAP LENGTH IN CONCRETE

BAR SIZE	f'c = 2000 PSI	f'c = 3000 PSI	f'c = 4000 PSI	f'c = 5000 PSI
#3	22	22	22	22
#4	29	29	29	29
#5	40	36	36	36
#6	57	46	43	43
#7	77	63	54	54
#8	100	82	71	71
#9	128	104	90	90
#10	162	132	115	115
#11	200	163	141	141

FOR WELDED WIRE FABRIC: SPACING OF WIRE PLUS 12".

STRUCTURAL STEEL

1. MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING ASTM DESIGNATIONS:

MATERIAL	DESIGNATION	STRENGTH
ANCHOR BOLTS	A36	Fy=36 ksi
PLATES	A36	Fy=36 ksi
ANGLES	A36	Fy=36 ksi
CHANNELS	A36	Fy=36 ksi
WIDE FLANGE SHAPES	A572	Fy=50 ksi
STEEL PIPE	A53 GRADE B	Fy=35 ksi
SQUARE & RECT. STEEL TUBES (HSS)	A500 GRADE B	Fy=46 ksi
ROUND TUBES (HSS)	500 GRADE B	Fy=42 ksi

3. ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS AMENDED TO DATE AND THE CODE OF STANDARD PRACTICE, LATEST EDITION AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FOLLOWS:
   SECTION 4.2.1, DELETE FIRST TWO SENTENCES.
   SECTION 7., ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR.
   SECTION 7.9.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SELF SUPPORTING STEEL FRAMES.
   SECTION 7.9.4, THE CONTRACTOR TO DESIGN SHORES, JACKS OR LOADS.
4. WELDING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION AS PUBLISHED BY THE AMERICAN WELDING SOCIETY, EXCEPT THAT ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO ANSI/AWS D1.1-04
5. DETAILED AND OR SCHEDULED CONNECTIONS HAVE BEEN DESIGNED BY STRUCTURAL ENGINEER. ANY CONNECTION NOT DETAILED OR SCHEDULED OR ALTERED FOR FABRICATION PURPOSES SHALL BE SIZED AND DETAILED BY FABRICATOR AND SHALL BE MARKED FOR ENGINEER'S VERIFICATION. FABRICATOR SIZED AND DETAILED CONNECTIONS SHALL SUPPORT ONE HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE TABLES OF UNIFORM CONSTANTS, PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN BEAM, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECT OF ANY CONCENTRATION LOADS MUST BE TAKEN INTO ACCOUNT.
6. SEE ARCHITECTURAL PLANS FOR MISCELLANEOUS STEEL ITEMS NOT INDICATED ON STRUCTURAL DRAWINGS. STEEL ITEMS SHOWN ON ARCHITECTURAL DRAWINGS AND NOT SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGN BY THE STEEL FABRICATOR. SEE DESIGN CRITERIA FOR LOADING.
7. ALL WELDED CONNECTIONS SHALL BE MADE USING 1/4" FILLET WELD, U.N.O.
8. ALL BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER HIGH STRENGTH BOLTS, ASTM A325, BEARING TYPE CONNECTION w/ WASHERS ASTM F436, U.N.O. ON DESIGN DRAWINGS. SPECIAL INSPECTION REQUIRED FOR ALL HIGH STRENGTH BOLTING. ALL NUTS SHALL BE PER ASTM A563
9. ALL CONNECTION PLATES AND STIFFENERS SHALL BE MADE WITH 1/4" THICK PLATES, UNLESS OTHERWISE NOTED ON PLANS.
10. ALL STEEL (INCLUDING BOLTS) EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED. (INCLUDES STEEL THAT IS ONLY COVERED WITH PLASTER OR STUCCO). SEE ARCHITECTURAL PLANS IF STRICTER REQUIREMENTS ARE REQUIRED.
11. ALL EXPOSED STEEL SHALL FOLLOW SECTION 10 OF THE CODE OF STANDARD PRACTICE OF AISC. SECTION 10 OF THE CODE ADDRESSES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS)
12. CONNECTIONS SHALL BE PER HOLLOW STRUCTURAL SECTIONS, CONNECTION MANUAL BY AISC
13. WHERE STEEL MEMBER PASS THROUGH CMU WALLS, PROVIDE HALF INCH GAP BETWEEN THE CMU AND THE STEEL MEMBER. PROVIDE ELASTOMERIC MATERIAL BETWEEN THE THE STEEL MEMBER AND CMU WALL.
14. ALL BEAMS NOT SHOWN SHALL BE W14x26. ALL COLUMNS NOT SHOWN SHALL BE HSS4x4x1/4.
15. STEEL SHOP SHALL BE AISC CERTIFIED.
16. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED. UNLESS NOTED OTHERWISE, HOLES SHALL BE STANDARD SIZE 1/16 INCH LARGER THAN THE BOLT.
17. ALL STRUCTURAL STEEL SHAPES SHALL BE PRIMED WITH A RUST RESISTANT PRIMER BEFORE SHIPMENT TO THE PROJECT SITE. PRIMER SHALL NOT BE APPLIED TO THE IMMEDIATE AREA OF STEEL INTENDED TO RECEIVE SLIP CRITICAL BOLTED CONNECTIONS
18. HIGH STRENGTH BOLTS INSTALLATION SHALL BE CONTINUOUSLY INSPECTED BY A SPECIAL INSPECTOR. FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR:
   - A. HE SHALL VERIFY THE MILL CERTIFICATES FOR MATERIAL.
   - B. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE.
   - C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES, TOOL CALIBRATIONS WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND AND BUILDING CODE.
   - D. FOR SNUG-TIGHT CONNECTIONS, HE SHALL VERIFY THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT WITH EACH OTHER.
   - E. FOR SLIP-TIGHT CONNECTIONS, HE SHALL VERIFY THE PRETENSION METHOD SELECTED BY THE CONTRACTOR HAS INDUCED THE REQUIRED MINIMUM TENSION IN THE BOLT.
   - F. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT AND ENGINEER.
19. WELDING IN THE FIELD SHALL BE CONTINUOUSLY INSPECTED, BY A SPECIAL INSPECTOR FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR:
   - A. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE.
   - B. HE SHALL VERIFY THE WELDER'S QUALIFICATIONS.
   - C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES AND WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND BUILDING CODE.
   - D. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT AND ENGINEER.
20. ALL NON SHRINK GROUT FOR LEVELING OF BASE PLATES SHALL HAVE A MINIMUM 5000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GROUT SHALL COMPLY WITH CORPS OF ENGINEERS SPECIFICATION CRD-C 621.
21. AT ALL TUBES, PROVIDE 3/8" THICK END PLATE, U.N.O.

ALLOWANCE

1. IN ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL, FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, LABOR COSTS AND PLACEMENT AT THE SITE.
2. REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE RETURNED/CREDITED BACK TO THE OWNER.
3. THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM.

MATERIAL	ALLOWANCE
CONCRETE	20 CU. YD.
REINFORCING STEEL	3000 LBS
STRUCTURAL STEEL	2000 LBS
CMU	200 SQ. FT.

SPECIAL NOTES TO OWNER

1. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED.
2. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS Serviceability AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS.
3. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED. REFER TO THE NOTES UNDER "ALLOWANCES".
4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.

CAST-IN-PLACE CONCRETE

1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES.
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS, ACI #301-05, OR LATEST EDITION. DRILLED PIERS SHALL COMPLY WITH ACI 336.1-01 AND ACI 336.3R-05
3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, ACCESSORIES UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION
4. THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS:

LOCATION	STRENGTH AT 28 DAYS	MAXIMUM SLUMP	SIZE OF LARGE AGGREGATE	WATER/CEMENT RATIO
FOUNDATIONS	3000 PSI	5"	1 1/2"	0.55
SLAB ON GRADE	3000 PSI	5"	1 1/2"	0.55
GRADE BEAMS	3000 PSI	5"	1 1/2"	0.55
WALL	3000 PSI	6"	3/4"	0.55

5. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS.
6. VERTICAL CONSTRUCTION JOINTS IN SLABS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY ENGINEER.
7. ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2 SEALANT '2A' (SELF-LEVELING 2-PART POLYURETHANE).
8. UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THESE LINE SHOULD VERTICAL MOVEMENT OCCUR.
9. BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB.
10. FLOOR TOLERANCES
    F-NUMBER SYSTEM

	COMPOSITE	MINIMUM LOCAL VALUE
FLATNESS (F_F)	30	23
LEVELNESS (F_L)	25	19

IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS.

11. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE.
12. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS. GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.
14. CONCRETE TESTING SHALL BE ONE SET OF CYLINDERS FOR EVERY 50 CUBIC YARDS OR PORTION THEREOF FOR EACH TYPE OF CONCRETE POURED ON ANY GIVEN DAY. ONE SET CONSISTS OF 2 CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS.
15. VAPOR RETARDANT
    A. VAPOR RETARDANT (UNDER SLAB): SHALL CONFORM TO ASTM E1745, CLASS A OR BETTER AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. VAPOR RETARDANT SHALL BE NOT LESS THAN 15 MILS THICK.
    APPROVED PRODUCTS
    A. STEGO WRAP BY STEGO INDUSTRIES LLC. (887) 464-7834.
    B. GRIFFOLYN T-65 BY REEF INDUSTRIES (800) 231-6074.
    C. RUFCO D16WB BY RAVEN IND. AT TEXAS ENVIRONMENTAL PLASTIC: (281) 821-7320.
    INSTALLATION
    A. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS TWELVE (12) INCHES AND SEAL WITH TAPE AS SPECIFIED BY VAPOR RETARDANT MANUFACTURER. TURN BARRIER UP SIX 6 INCHES AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC. TAPE AND SEAL AT PENETRATIONS AND AT EDGES.
    B. AT GRADE BEAMS, EXTEND VAPOR RETARDANT DOWN SIDES OF BEAM TRENCHES (AND FOOTING EXCAVATIONS) TO WITHIN 4" OF TRENCH BOTTOM AND SECURE TO SIDES OF TRENCH. DO NOT EXTEND RETARDANT ACROSS BOTTOM OF BEAM TRENCH.
    PATCHING:
    A. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND ENTIRE PERIMETER OF REPAIR.
16. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUITS OR PLUMBING LINES SHALL NOT BE GREATER THAN 1 INCH DIAMETER AND SHALL BE PLACED NEAR THE CENTER OF THE SLAB AS MUCH AS POSSIBLE.

A. PRE-INSTALLATION CONFERENCE:
1. AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE SLAB CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - A) CONTRACTOR'S SUPERINTENDENT
   - B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY CONTROL
   - C) READY-MIX CONCRETE PRODUCER
   - D) CONCRETE SUBCONTRACTOR
   - E) ADMIXTURE MANUFACTURER(S)
   - F) LIQUID DENSIFIER AND SEALER MANUFACTURER
   - G) LIQUID DENSIFIER AND SEALER APPLICATION
   - H) JOINT FILLING APPLICATOR
3. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.

B. **CONCRETE SUBCONTRACTOR QUALIFICATION:**
1. THE CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE CONTRACTOR, SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE FLOOR SLAB TOLERANCES SPECIFIED IN THIS SECTION. THE CONCRETE SUBCONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THESE PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGH THE DURATION OF THIS PROJECT.

C. **CONCRETE MATERIAL:**
1. PORTLAND CEMENT: ASTM C 150, TYPE I. USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.
2. COARSE AND FINE AGGREGATES: ASTM C33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP AGGREGATES (1 1/2") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE. SLABS ON GRADE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1-1/2" FOOTINGS AND PIERS 1" AND BEAMS 3/4".
3. WATER: COMPLYING WITH ASTM C 94.
4. ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494.

D. **ADMIXTURES:**
1. AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLABS SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 AND AIRMIX 200, MASTER BUILDERS MICROAIR, W.R. GRACE DARAVAIR 1000 AND DAREX-11.
   NOTE: AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED ON INTERIOR CONCRETE.
2. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL WR-89 AND WR-91, MASTER BUILDERS 200N AND 322N, W.R. GRACE WRDA 36 AND WRDA 64.
3. WATER REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75, MASTER BUILDERS POZZOLITH R, W.R. GRACE DARATARD 17.
4. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS : EUCLID CHEMICAL EUCON 37, MASTER BUILDERS REOBUILD 1000 W.R. GRACE DARACEM - 1000.
5. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 AND ACCELGUARD NCA, MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLARSET.
6. PROHIBITED ADMIXTURES:
   - a.) CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.
   - b.) FLYASH; A MAXIMUM OF 20% AS CEMENT REPLACEMENT ALLOWED

E. **EVAPORATION RETARDER:**
1. WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.
   a.) ACCEPTABLE PRODUCTS:
   "EUCOBAR" BY THE EUCLID CHEMICAL COMPANY - CONTACT: PHIL BRANDT (877) 438-3826

F. CURING MATERIALS:
1. EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C 1315 WITH A MAXIMUM V.O.C. CONTENT OF 700 G/L.
   a.) ACCEPTABLE PRODUCTS:
   "SUPER REZ SEAL" BY EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826
2. INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C-309 AND V.O.C. CONTENTS IN ACCORDANCE TO EPA 40 CFR, PART 59, TABLE I, SUBPART D FOR CONCRETE CURING COMPOUNDS WITH A MAXIMUM V.O.C. CONTENT OF 350 G/L. APPLY AT 400 S.F./GALLON.
   a.) ACCEPTABLE PRODUCTS:
   "KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826
   ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

G. **CONCRETE MIXES**
1. COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURE, U.N.O..
2. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA AS FOLLOWS:
   CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE LABORATORY MIX DESIGN SHALL NOT EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI. FOUR COPIES OF THE MIX DESIGN SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK BEGINS.
3. SLUMP: CONCRETE CONTAINING HRWR SHALL HAVE A MAXIMUM SLUMP OF 8" (200MM). ALL OTHER CONCRETE SHALL NOT EXCEED 4 INCHES (100 MM) UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
4. ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY OWNER BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE WHICH WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR SLAB INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT THE CAPABILITIES OF THE PUMPING EQUIPMENT.
5. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. WHEN AIR TEMPERATURE IS BETWEEN 85° AND 90° F, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90° F, REDUCE MIXING AND DELIVERY TIME TO 6O MINUTES.
6. WATER CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL.

H. CONTRACTION JOINTS IN SLABS-ON-GRADE:
FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS:
SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR. NOTE: CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY. IF CHALK LINES ARE USED FOR SAW CUTS, ALL CHALK REMAINING ON SLAB SHALL BE REMOVED COMPLETELY AND IMMEDIATELY AFTER SAWING.

I. **FLOOR SLAB TOLERANCES:**
COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS." ALL INTERIOR FLOOR SLABS SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL - TROWELED FINISH AS DESCRIBED IN ACI 302.IR- LATEST EDITION.

J. CONCRETE CURING AND PROTECTION:
a) FIRST, ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT.

1. a)TEFIRST, ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND PONDED WITH WATER FOR SEVEN (7) DAYS AFTER CONCRETE PLACEMENT.

c) THIRD, CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F.

2. INTERIOR SLAB PROTECTION:
   TAKE THE FOLLOWING MEASURES TO PROTECT FLOOR SLAB:
   - A. WRAP OR "DIAPER" ALL MOTORIZED AND HYDRAULIC EQUIPMENT TO PREVENT FLUID LEAKS.
   - B. PROVIDE NON-MARKING TIRES ON RUBBER TIRED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC.
   - C. SOURCE FOR DIAPERS AND BOOTS: R&R TIRE SURFACE PROTECTORS, INC., FORT COLLINS CO 80526, (970) 266-4082
   - D. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
   - E. COVER SLAB PRIOR TO PAINTING. ALL SPILLS TO BE CLEANED WITH SOAP AND WATER. LACQUER THINNER WILL NOT BE ACCEPTABLE.

ABBREVIATIONS

TYP	TYPICAL
SIM	SIMILAR
T&S	TYPICAL AND SIMILAR
U.N.O.	UNLESS NOTED OTHERWISE
CLR	CLEAR
(V)	VERTICAL
CA	COLUMN ABOVE

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PROPOSED

Tropical Texas Behavioral Health-Ambulatory Service Facility

Project: 18302
Date: 5/17/2019

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SPECIAL INSPECTION, MATERIALS TESTING.

1. RESPONSIBILITIES OF THE OWNER
   A. EMPLOY AND PAY THE SPECIAL INSPECTION AGENCY TO PERFORM INSPECTIONS SPECIFIED IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
   B. EMPLOY AND PAY THE MATERIALS TESTING LABORATORY TO PERFORM TESTS SPECIFIED IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
      1) RETESTING - THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR RE-TESTING WHERE RESULTS OF INSPECTIONS AND TESTS PROVE UNSATISFACTORY AND INDICATE NONCOMPLIANCE WITH REQUIREMENTS.
   C. EMPLOY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE (DPR) TO PERFORM STRUCTURAL OBSERVATION. (REF 1702)
2. DEFINITIONS
   A. APPROVED FABRICATOR: A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD, TO PERFORM WORK, OFF SITE, REQUIRING SPECIAL INSPECTION WITHOUT SPECIAL INSPECTION. THE DESCRIPTION IN SECTION 1701.1 OF THE 1998 CALIFORNIA BUILDING CODE IS APPLICABLE.
   B. SPECIAL INSPECTION AGENCY: THE ACCREDITED INSPECTION BODIES DESIGNATED HEREIN AND APPROVED BY THE ENGINEER OF RECORD TO PERFORM SPECIAL INSPECTION AS REQUIRED BY THE BUILDING CODE AND THE PROJECT SPECIFICATIONS AND AS DESCRIBED IN SECTION 1701 1998 CALIFORNIA BUILDING CODE.
   C. SPECIAL INSPECTOR: A QUALIFIED PERSON, EMPLOYED BY THE SPECIFIED SPECIAL INSPECTION AGENCY, WHO HAS DEMONSTRATED COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. DUTIES INCLUDE VISUAL OBSERVATIONS AND FIELD MEASUREMENTS OF MATERIALS, OBTAINING SPECIMENS FOR TESTS AND RELATED ACTIONS INCLUDING PREPARATION OF REPORTS.
   D. TESTING LABORATORY: AN ACCREDITED MATERIALS TESTING LABORATORY, APPROVED BY THE ENGINEER OF RECORD, TO MEASURE, EXAMINE, TEST, CALIBRATE OR OTHERWISE DETERMINE THE CHARACTERISTICS OR PERFORMANCE OF CONSTRUCTION MATERIALS.
   E. CONTINUOUS INSPECTION: ON SITE INSPECTION BY THE SPECIAL INSPECTOR ON A CONTINUOUS BASIS OBSERVING ALL WORK REQUIRING SPECIAL INSPECTION.
   F. PERIODIC INSPECTION: INTERMITTENT INSPECTION AS PERMITTED BY THE PLAN SPECIFICATIONS AT PREDETERMINED INTERVALS OR MORE FREQUENTLY AS WORK PROGRESSES. NO SIGNIFICANT ELEMENTS OR AREAS SHALL BE COVERED BY ADDITIONAL WORK UNTIL APPROVED BY THE MUNICIPAL BUILDING INSPECTOR AND/OR THE SPECIAL INSPECTOR.
   G. STRUCTURAL OBSERVATION: THE VISUAL OBSERVATION, BY THE ENGINEER OF RECORD OR HIS DESIGNEE, INCLUDING BUT NOT LIMITED TO THE ELEMENTS AND CONNECTIONS, OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL AND MUNICIPAL INSPECTIONS REQUIRED BY CODES AND SPECIFICATIONS.
   H. EOR: ENGINEER OF RECORD
   I. DPR: ENGINEER OF RECORD/DESIGN PROFESSIONAL OF RECORD
   J. SPECIAL INSPECTION AND MATERIALS TESTING
      THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTORS DUTIES ARE DESCRIBED IN CBC 1701.3 AND CBC 1701.5
      DOCUMENTED METHODS AND PROCEDURES SHALL BE USED FOR INSPECTION AND TESTING REQUIRED OF CONTRACTUAL DOCUMENTS, AND FOR ESTABLISHING ACCEPTANCE CRITERIA. ALL INSTRUCTIONS, STANDARDS, PROCEDURES, CHECKLISTS RELEVANT TO THE WORK WILL BE KEPT UP TO DATE AND READILY AVAILABLE FOR USE. NO INSPECTION OR TEST WILL BE PERFORMED IF THE SAFETY OF THE TESTING PERSONNEL IS IN QUESTION DUE TO JOB SITE CONDITIONS. PRIOR TO PROJECT COMMENCEMENT, THE TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING PROCEDURES OR SPECIFICATIONS INCLUDING ANY APPROPRIATE ASTM METHODS, CODE REQUIREMENTS OR PROJECT SPECIFICATION REQUIREMENTS. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS, AS REQUIRED, AND PROCEDURES WITH APPLICABLE CODES, PLANS, AND SPECIFICATIONS.
      1. ALL INSPECTIONS SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR,
         ACCREDITATION TO ASTM E-329-95C, STANDARD
         SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED.
         COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION.
         A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION.
4. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE WORKMANSHIP PROVISIONS OF THE CBC.
5. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
6. SPECIAL INSPECTION REPORTS
   THESE REPORTS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION:
   A. PERMIT NUMBER
   B. NAME OF THE MUNICIPAL INSPECTOR, IF AVAILABLE, AND OF THE GOVERNING MUNICIPALITY
   C. SPECIAL INSPECTION AGENCY NAME, ADDRESS, AND PHONE NUMBER
   D. UNIQUE IDENTIFICATION OF THE REPORT AND OF EACH PAGE.
   E. CLIENT NAME AND ADDRESS
   F. NAME AND ADDRESS OF THE DESIGN PROFESSIONAL OF RECORD, AND OTHER DESIGNERS OR ENGINEERS APPLICABLE TO THE PROJECT
   G. DESCRIPTION OF THE TYPE OF INSPECTION PERFORMED
   H. ANY UNRESOLVED DEVIATIONS, EXCLUSIONS, AND ADDITIONS TO OR FROM THE APPROVED DRAWINGS AND SPECIFICATIONS RELEVANT TO THE SPECIFIC INSPECTION OR TEST.
   I. COMPLIANCE FINDINGS AND REFERENCE
   J. DESCRIPTION OF LOCATION WHERE THE INSPECTION WAS PERFORMED WITHIN THE PROJECT
   K. TIME AND DATE OF THE INSPECTION
   L. MEASUREMENTS, EXAMINATIONS, AND DERIVED RESULTS SUPPORTED BY TABLES, GRAPHS, SKETCHES, OR PHOTOGRAPHS AS APPROPRIATE
   M. THE NAME, SIGNATURE, TITLE, AND IDENTIFICATION NUMBER, AS APPROPRIATE, OF THE FIELD INSPECTOR PERFORMING THE INSPECTION
   N. IDENTIFICATION OF SUBCONTRACTORS EMPLOYED TO CARRY OUT TESTS OR PARTS OF TESTS
7. TESTS REPORTS
   LABORATORY TESTS AND MILL CERTIFICATIONS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD. THESE REPORTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   1. CONCRETE CYLINDERS
   2. REINFORCING STEEL
   3. STRUCTURAL STEEL
   4. CONCRETE MIXES
   5. CONCRETE ANCHORS
8. SPECIAL INSPECTION BY A SPECIAL OR DEPUTY INSPECTOR FROM AN ACCREDITED, EOR APPROVED INSPECTION AGENCY AND WITH THE APPROPRIATE CURRENT MUNICIPAL LICENSES AND CERTIFICATIONS SHALL BE REQUIRED FOR THE TYPE OF WORK LISTED BELOW.

8A CONTINUOUS INSPECTION REQUIRED FOR THE FOLLOWING:
   A. REINFORCED CONCRETE:
      1. DURING PLACEMENT OF REINFORCED CONCRETE WHERE THE STRUCTURAL DESIGN IS BASED ON F'C GREATER THAT 3,000 PSI AND THE TAKING TEST SPECIMENS. THE NUMBER OF AND FREQUENCY OF TAKING OF TEST SPECIMENS SHALL BE THE MINIMUM REQUIRED BY THE GOVERNING MUNICIPAL BUILDING CODE OR AS SPECIFIED BY THE APPROVED STRUCTURAL PLANS, WHICHEVER IS THE GREATER NUMBER.
      2. DURING THE PLACEMENT OF REINFORCING STEEL AND PRE STRESS TENDONS UNLESS THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE.
      3. DURING THE PLACEMENT OF REINFORCING STEEL AND CONCRETE FOR CAST-IN-PLACE DRILLED PILES OR CAISSONS.
      4. INSPECTION IS REQUIRED ON CAST-IN-PLACE PILES OR CAISSONS, EVEN IF F'C IS LESS THAN 2,500 PSI.
      5. PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS WHEN STRESS INCREASES PERMITTED BY FOOTNOTE 5 OF TABLE 19E, SECTION 1925 OF THE UNIFORM BUILDING CODE FOR THE USE OF FULL VALUES FOR EMBEDDED BOLTS.
      6. PRIOR TO AND DURING THE INSTALLATION OF ANCHORS REQUIRING TO BE DRILLED INTO CONCRETE.
      7. DURING THE STRESSING AND GROUTING OF TENDONS IN PRE STRESSED
      8. CONTINUOUS INSPECTION FOR THE PLACEMENT OF THE REINFORCEMENT AND CONCRETE AT CONCRETE MOMENT FRAMES WITHIN SEISMIC ZONES 3 & 4
      9. SHOT CRETE PLACEMENT AND DURING THE TAKING OF TEST SPECIMENS.
         PERIODIC INSPECTION FOR REINFORCED CONCRETE SHALL BE PERFORMED WHEN SPECIFIED, AS MINIMUMS:
         1. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS AS REQUIRED, AND PROCEDURES WITH THE APPLICABLE CODES, PLANS AND SPECIFICATIONS.
         2. REINFORCEMENT VERIFICATION PRIOR TO THE PLACEMENT OF CONCRETE
         3. DURING THE PLACEMENT OF CONCRETE
         4. DURING THE MOLDING, CONSTRUCTION OF TAKING OF COMPRESSION SAMPLES, BEAMS, CORES OR PANELS.
         5. AT SUCH FREQUENCY AS NECESSARY TO CLEARLY CONFIRM THE PLACEMENT OF TIES, HOOPS, STIRRUPS, CONNECTIONS, AND ANY ADDITIONAL SPECIFIED REINFORCEMENT (I.E. @ OPENINGS, BEAMS, CORNERS, COLUMNS, PIERS, AND CAISSONS) BEFORE THEY ARE COVERED.
         6. DURING SAMPLING OF CONCRETE AT DISCHARGE FROM MIXER.
         7. BEFORE ANY CONCRETE IS PLACED FOR VERIFICATION OF MIX DESIGN
         8. ALL FUNCTIONS AT THE BATCHING PLANT FOR READY MIX. THIS COULD INCLUDE CEMENT SAMPLING OR TEST RESULTS, GRAVEL GRADATION, CHECKING CALIBRATION OF EQUIPMENT AND ADMIXTURE APPROVALS.
   B. STRUCTURAL WELDING - GENERAL - INSPECTOR'S DUTIES
      1. ALL FIELD WELDING NOT DONE IN AN APPROVED FABRICATORS SHOP EXCEPT THAT PERIODIC INSPECTION THE FREQUENCY OF WHICH IS DETERMINED PRIOR TO THE START OF THE PROJECT SHALL BE ALLOWED PER SECTION 1701.5, #5 EXCEPTIONS.
      2. DURING ALL FIELD WELDING OF SPECIAL MOMENT-RESISTING FRAMES; IN ADDITION, NONDESTRUCTIVE TESTING AS REQUIRED BY SECTION 1703.
      3. THE SPECIAL INSPECTOR SHALL REVIEW EOR APPROVED WELDING PROCEDURES SPECIFICATIONS (WPS) WHEN OTHER THAN STANDARD AWS PRE QUALIFIED JOINTS AND PROCEDURES ARE INVOLVED.
      4. THE SPECIAL INSPECTOR SHALL REVIEW APPLICABLE SECTION OF REFERENCED CODES, PARTICULARLY THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1) AND THE MANUAL, AND SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
      5. THE SPECIAL INSPECTOR SHALL REVIEW MILL TEST REPORTS AND CHECK HEAT NUMBERS WITH MATERIAL AS RECEIVED. VERIFY THAT PROPER IDENTIFICATION OF STEEL IS MAINTAINED DURING FABRICATION.
      6. THE SPECIAL INSPECTOR SHALL, WHEN REQUIRED BY PROJECT SPECIFICATIONS, MARK SAMPLE LOCATION WITH STEEL STAMP ON EACH PIECE TESTED.
      7. THE SPECIAL INSPECTOR SHALL RECORD SAMPLE NUMBER AND LOCATION AND CHECK THAT SAMPLE IDENTIFICATION IS MAINTAINED AS SAMPLES ARE DELIVERED TO LABORATORY AND TESTED.
      8. THE SPECIAL INSPECTOR SHALL WHEN STEEL MEMBERS ARE DELIVERED TO FINISH AND NO "CROP ENDS" ARE AVAILABLE FOR SAMPLE CUTTING, COORDINATE CUTTING AND PATCHING REQUIREMENTS WITH THE ARCHITECT/ENGINEER

9A. WELDING OBSERVATION - (APPLICABLE TO SHOP AND FIELD)
   1. THE SPECIAL INSPECTOR SHALL CHECK EACH WELDER'S CERTIFICATION AND VERIFY THAT THE WELDER DOES WORK ONLY AS QUALIFIED BY HIS CERTIFICATION
   2. THE SPECIAL INSPECTOR SHALL KEEP A WRITTEN RECORD OF EACH WELDER BY NAME, IDENTIFICATION NUMBER AND HIS IDENTIFYING STEEL MARK, IF APPLICABLE, AND THE PERCENTAGE OF REJECTABLE WELDS.
   3. THE SPECIAL INSPECTOR SHALL UPON DETECTION OF REJECTABLE WELD (EITHER VISUALLY OR BY NONDESTRUCTIVE TEST), THE INSPECTOR OF RECORD WILL NOTIFY THE WELDER AND HIS FOREMAN FOR VERIFICATION OF DEFECT. THE INSPECTOR OF RECORD WILL OBSERVE REMOVAL, REWORK, OR REPAIRS.
   4. THE SPECIAL INSPECTOR SHALL CHECK STRUCTURAL MEMBERS FOR THICKNESS ADJACENT TO WELDS, OPENING, ETC. REWORK, OR REPAIRS.
   5. THE SPECIAL INSPECTOR SHALL INSPECT JOINTS FOR PROPER PREPARATION, INCLUDING BEVEL, ROOT FACES, ROOT OPENING, ETC. REWORK, OR REPAIRS.
   6. THE SPECIAL INSPECTOR SHALL CHECK THE TYPE AND SIZE OF ELECTRODES TO BE USED FOR THE VARIOUS JOINTS, AND POSITIONS. CHECK THE STORAGE FACILITIES TO SEE IF THEY ARE ADEQUATE TO KEEP THE ELECTRODES DRY.
   7. THE SPECIAL INSPECTOR SHALL OBSERVE THE TECHNIQUE OF EACH THE SPECIAL INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD.
   8. THE SPECIAL INSPECTOR SHALL VERIFY THE USE OF PROPER PREHEAT AND INTER PASS TEMPERATURES. INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD.
   9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUOUS INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING AREA AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED.
   10. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS.
   11. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY, OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE.
   12. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF WELDMENTS IS NECESSARY, VERIFY THAT APPROVED METHODS WILL BE USED.
   13. THE SPECIAL INSPECTOR SHALL TAG OR STAMP ACCEPTED WELDMENTS WITH THE INSPECTOR'S IDENTIFICATION STAMP. APPROVED METHODS WILL BE USED.

8A. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:		YES	NO	N/A
FOUNDATION	A. COMPACTED FILL, GRADING, AND EXCAVATIONS	X		
	B. CONTINUOUS INSPECTION OF PIERS	X		
CONCRETE	A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR CONCRETE.	X		
	B. CONTINUOUS INSPECTION FOR SLAB CONCRETE	X		
	C. TEST CYLINDERS FOR SLAB CONCRETE	X		
	D. ANCHOR BOLTS OR EMBEDS IN CONCRETE (INSTALLATION AND CONCRETE PLACEMENT)	X		
DRILLED IN ANCHORS	A. ALL ADHESIVE ANCHORS, RODS, DOWELS, SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION.	X		
	B. ADDITIONAL TESTING MAY BE REQUIRED AS SPECIFIED ON THE PLANS.	X		
	C. ADHESIVE ANCHORS IN CONCRETE OR MASONRY	X		
REINFORCING STEEL	A. PLACING OF REINFORCING	X		
	B. SAMPLING AND TESTING STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL)	X		
WELDING	A. ALL STRUCTURAL WELDING EXCEPT WELDING IN APPROVED SHOPS.	X		
	B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS , AND FIELD WELDS.	X		
	C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING.	X		
	D. REINFORCING STEEL WELDING	X		
BOLTING	A. HIGH STRENGTH BOLT A325 & A490 (TORQUE VERIFICATION)	X		
	B. HIGH STRENGTH BOLT A325N,X & A480N,X (SNUG CONTACT OF PLYS)	X		
MASONRY	A. SAMPLING OF MASONRY UNITS	X		
	B. MASONRY PRISM CONSTRUCTION	X		
	C. MORTAR SAMPLING	X		
	D. CONTINUOUS INSPECTION DURING PLACEMENT AND GROUTING OF MASONRY UNITS AND REINFORCEMENT PLACEMENT.	X		
	E. ANCHOR BOLTS OR EMBEDS IN MASONRY (INSTALLATION AND GROUT PLACEMENT)	X		
INSULATING CONCRETE FILL	A. TEST CYLINDERS AND INSPECTIONS	X		
STRUCTURAL STEEL	A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE)	X		
	B. SAMPLING AND TESTING	X		
	C. DURING PLACEMENT OF PAINT AS SPECIFIED BY THE ARCHITECT.	X		
SHEAR DIAPHRAGMS	A. INSPECTION OF SHEATHING PLACEMENT AND NAIL SPACING	X		
APPROVED FABRICATORS	APPROVED FABRICATORS: MUST SUBMIT CERTIFICATE OF COMPLIANCE FOR ALL OFF SITE FABRICATION SUCH AS STRUCTURAL STEEL GLU-LAMS PRECAST CONCRETE, ETC.	X		
STRUCTURAL OBSERVATION	STRUCTURAL OBSERVATIONS REQUIRED. WHEN REQUIRED BY THIS ENGINEER OR THE BUILDING DEPARTMENT, THE CONTRACTOR SHALL EMPLOY AN ENGINEER APPROVED BY THE EOR TO PERFORM STRUCTURAL OBSERVATION.	X		

REINFORCED CONCRETE MASONRY UNITS

1. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND AS FOLLOWS:
   * UNIT COMPRESSIVE STRENGTH: 1900 PSI MINIMUM AVERAGE NET AREA COMPRESSIVE STRENGTH.
   * WEIGHT CLASSIFICATION: MEDIUM WEIGHT BLOCK
   * GROUT f'c = 3000 PSI
   * MORTAR SHALL BE TYPE S
   * CONCRETE MASONRY ASSEMBLAGE (f'm) SHALL BE 1500 PSI
2. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO ASTM A-615, GRADE 60, REINFORCING BARS #3 AND SMALLER MAY BE GRADE 40.
3. CONCRETE SHALL CONFORM TO ASTM C150 TYPE I, LOW ALKALI, MASONRY CEMENTS ARE NOT ALLOWED.
4. TYPICAL REINFORCEMENT, U.N.O. (DRAWING NOTES GOVERN OVER THESE NOTES)

CMU		VERTICAL	HORIZONTAL	OPENINGS AND DOWELS	CORNERS
(hatch)	8"	#6 AT 32" O.C.	#5 AT 96" O.C.	(2) #5	(3) #5
	6"	#4 AT 48" O.C.	#4 AT 96" O.C.	(1) #4	(3) #4
(hatch)	12"	(2) #6 AT 16" O.C.	(2) #5 AT 96" O.C.	(2) #6	(3) #6

INDICATES CMU WALL/COLUMN/PILASTER REINFORCED PER DETAIL 1/S402
ALL VERTICAL REINFORCEMENT TO BE IN CONCRETE OR GROUT FILLED CELLS, PROVIDE DOWELS FROM FOUNDATION, SAME SIZE AND SPACING.
5. TYPICAL HORIZONTAL REINFORCEMENT SHALL BE TWO (2) #5 CONTINUOUS IN 8"x16" DEEP CONTINUOUS CONCRETE FILLED BOND BEAM BELOW EACH FLOOR AND ROOF LEVEL, UNLESS NOTED OTHERWISE. PROVIDE STANDARD DUR-O-WALL TRUSS-TYPE REINFORCING OR REVIEWED EQUIVALENT EVERY OTHER COURSE (16" ON CENTER) AND AS PER MANUFACTURER'S RECOMMENDATIONS. (9 GAGE MINIMUM GALVANIZED)
6. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS VERTICAL.
7. WALL LENGTHS LESS THAN OR EQUAL TO FOUR (4) TIMES ITS THICKNESS SHALL BE CONSIDERED COLUMN SECTIONS AND SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING IN FILLED CELLS, PROVIDE 1/4 INCH DIAMETER TIES EVERY COURSE (8" ON CENTER) IN LIEU OF DUR-O-WALL REINFORCING, PLACE TIES NOT LESS THAN 1 1/2" NOR MORE THAN 5" FROM THE SURFACE OF THE COLUMN.
8. ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE FILLED SOLIDLY WITH PEA GRAVEL CONCRETE (3/8" MAX. AGGREGATE SIZE) OR GROUT, EACH WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, GROUT OR CONCRETE SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED, GROUT OR CONCRETE SHALL BE PLACE BY PUMPING OR AN APPROVED ALTERNATE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING OCCURS. GROUTING SHALL BE PER NCMA TEK 3-2
9. ALLOW C.M.U. WALLS TO SET AT LEAST 24 HOURS AFTER COMPLETION BEFORE GROUTING, GROUT OR CONCRETE SHALL BE CONSOLIDATED BY RESOLIDATION AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST, THE FILLING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITHOUT INTERRUPTIONS GREATER THAN ONE HOUR, AND PLACED IN LAYERS OF 4 FEET MAXIMUM.
10. WHERE THE CONCRETE OR GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUTS SHALL BE PROVIDED BY SUITABLE OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE FILLED, OR OTHER APPROVED LOCATIONS, THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE BEING FILLED.
11. WHEN CELL FILLING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING THE POUR OF CONCRETE OR GROUT APPROXIMATELY 1/2 INCH ABOVE OR BELOW BED JOINT.
12. END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULL BEDDED IN MORTAR TO PREVENT LEAKAGE OF CONCRETE OR GROUT UNLESS WALL IS TO BE POURED SOLID.
13. PROVIDE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 24' (10' FROM CORNERS. DO NOT CONTINUE THE TYPICAL TRUSS TYPE JOINT REINFORCEMENT THROUGH THE JOINT. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT.
14. DURING ERECTION, COVER TOP OF WALLS, PROJECTIONS AND SILLS WITH WATERPROOF SHEATHING AT THE END OF EACH DAY'S WORK.

A. PREINSTALLATION CONFERENCE:
1. AT LEAST 15 DAYS PRIOR TO THE START OF THE MASONRY CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS, MATERIALS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED MASONRY CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE MASONRY WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A) CONTRACTOR'S SUPERINTENDENT
   B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY CONTROL AND SPECIAL INSPECTOR
   C) READY-MIX CONCRETE PRODUCER
   D) MASONRY SUBCONTRACTOR
3. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.

FASTENING SCHEDULE (1) (2)

CONNECTION	LOCATION	FASTENING
1. JOIST TO SILL OR GIRDER,	TOENAIL	3-8d
2. BRIDGING TO JOIST,	TOENAIL EACH END	2-8d
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST,	FACE NAIL	2-8d
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST,	FACE NAIL	3-8d
5. 2" SUBFLOOR TO JOIST OR GIRDER,	BLIND AND FACE NAIL	2-16d
6. SOLE PLATE TO JOIST OR BLOCKING, SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	FACE NAIL BRACED WALL PANEL	16d AT 16" O.C. 3-16d per 16"
7. TOP PLATE TO STUD,	END NAIL	2-16d
8. STUD TO SOLE PLATE	TOENAIL END NAIL	4-8d, OR 2-16d
9. DOUBLE STUDS,		16d AT 24" O.C.
10. DOUBLE TOP PLATES,		16d AT 16" O.C.
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE,	TOENAIL	3-8d
12. RIM JOIST TO TOP PLATE,	TOENAIL	8d AT 6" O.C.
13. TOP PLATES, LAPS AND INTERSECTIONS,	FACE NAIL	2-16d
14. CONTINUOUS HEADER, TWO PIECES	16" O.C. ALONG EACH EDGE	16d ALONG EACH EDGE
15. CEILING JOISTS TO PLATE,	TOENAIL	3-8d
16. CONTINUOUS HEADER TO STUD,	TOENAIL	4-8d
17. CEILING JOISTS, LAPS OVER PARTITIONS,	FACE NAIL	3-16d
18. CEILING JOISTS TO PARALLEL RAFTERS,	FACE NAIL	3-16d
19. RAFTERS TO PLATE,	TOENAIL	3-8d
20. 1" BRACE TO EACH STUD AND PLATE,	FACE NAIL	2-8d
21. 1"x8" SHEATHING OR LESS TO EACH BEARING,	FACE NAIL	2-8d
22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING,	FACE NAIL	3-8d
23. BUILT-UP CORNER STUDS	24" O.C.	16d
24. BUILT-UP GIRDER AND BEAMS		20d AT 32" O.C. AT TOP & BOTTOM & STAGGERED 2-20d AT ENDS AND AT EACH SPLICE
25. 2" PLANKS		2-16d AT EACH BEARING

(1) DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.

(2) NAILS SHALL BE COLOR CODED AND AS MANUFACTURED BY HALSTEEL (TRACKERS COLOR CODED NAILS)

STRUCTURAL MASONRY (SPECIAL INSPECTION)

INSPECTION TASK (MONITOR MATERIAL AND WORKMANSHIP TO ASSURE CONTRACT DOCUMENTS ARE BEING FOLLOWED)	INSPECTION: CONTINUOUS DURING TASK LISTED	INSPECTION: PERIODICALLY DURING TASK LISTED
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. PROPORTIONS OF SITE PREPARED MORTAR.	X	
B. CONSTRUCTION OF MORTAR JOINTS.	X	
C. LOCATION OF REINFORCEMENT AND CONNECTORS.	X	
2. THE INSPECTION PROGRAM SHALL VERIFY:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	X	
B. TYPE, SIZE AND LOCATION OF DOWELS, ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES AND OTHER CONSTRUCTION	X	
C. CHECK GROUT MIX FOR COMPLIANCE WITH CODE AND SPECIFICATIONS.	X	
D. WELDING OF REINFORCING BARS.	X	
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40 °F) OR HOT WEATHER (TEMP. ABOVE 90 °F).	X	
F. CUTTING OF CLEAN OUT HOLES, KNOCKING DOWN OF FINS AND REMOVAL OF DEBRIS.	X	
G. VERIFY THAT MATERIALS ARE PROPERLY STORED.		
H. VERIFY THE LOCATION OF THE CONTROL JOINTS.		
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. GROUT SPACE IS CLEAN.	X	
B. PLACEMENT OF REINFORCEMENT AND CONNECTOR. (CHECK CLEARANCE, LAP SPLICES, STAGGER AND OFFSETS)	X	
C. CHECK GROUT MIX FOR COMPLIANCE WITH CODE AND SPECIFICATIONS.	X	
D. CONSTRUCTION OF MORTAR JOINTS.	X	
E. CHECK INSTALLATION OF CLEAN OUT CLOSURE.	X	
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. (SUCH AS MECHANICAL VIBRATION DURING PLACEMENT AND LATER DURING RECONSOLIDATION.)	X	
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	X	
7. CHECK THAT CURING REQUIREMENTS ARE BEING FOLLOWED	X	
8. VERIFY PLACEMENT OF ANCHORS INTO CONCRETE MASONRY UNITS.	X	
9. FREQUENCY OF TESTS: A. CONCRETE MASONRY UNIT TEST- FOR EACH TYPE, CLASS, AND GRADE OF CONCRETE MASONRY UNIT INDICATED, TEST UNITS BY METHOD OF SAMPLING AND TESTING OF ASTM C140. ONE SET OF CMU STANDARD PRISM TEST SHALL BE CONDUCTED FOR EVERY 5,000 SQ. FT. OF WALL DURING CONSTRUCTION IN ACCORDANCE TO ASTM C1314, BUT NOT LESS THAN ONE SET OF 3 MASONRY PRISMS FOR THE PROJECT. B. MORTAR TEST: FOR EACH TYPE INDICATED, TEST MORTAR BY METHODS OF SAMPLING AND TESTING OF ASTM C780. CONDUCT TESTS NO LESS FREQUENTLY THAN THAT REQUIRED TO EVALUATE MORTAR USED TO INSTALL EACH INCREMENT OF MASONRY UNITS INDICATED ABOVE FROM WHICH SAMPLES ARE TAKEN FOR TESTING. TEST MORTAR FOR EVERY 1,500 SQ. FT. OF WALL CONSTRUCTION. C. GROUT TEST: AT START OF GROUTING OPERATION, TAKE ONE TEST PER DAY FOR FIRST 3 DAYS. EACH GROUT TEST CONSISTS OF THREE SPECIMENS MADE IN ACCORDANCE WITH ASTM C1019. AFTER FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHOULD BE TAKEN ONCE A WEEK FOR EVERY 25 CUBIC YARDS OF GROUT OR FOR EVERY 2,500 SQ. FT. OF WALL, WHICHEVER COMES FIRST.	X	
10. MASONRY TESTING REQUIREMENTS	X	

TESTING METHOD OPTIONS	PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
METHOD 1: MASONRY PRISM TESTING	5 PRISMS	3 PRISMS FOR EVERY 5,000 S.F. OF WALL
METHOD 2: MASONRY PRISM TEST RECORD	APPROVED 30 PRISM RECORD	3 PRISMS FOR EVERY 5,000 S.F. OF WALL
METHOD 3: UNIT STRENGTH METHOD	UNITS AND GROUT OR 5 PRISM	UNITS AND GROUT OR 3 PRISMS FOR EVERY 5,000 S.F. OF WALL

PERIODIC INDICATES AT A MINIMUM ONCE A DAY FOR A MINIMUM OF ONE HOUR

LAMINATED VENEER LUMBER & PARALLEL STRAND LUMBER

1. MANUFACTURED LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSI) SHALL BE TRUS JOIST MACMILLAN PRODUCTS. ALTERNATIVES ARE NOT PERMITTED
2. TRUS JOIST MACMILLAN PRODUCTS, BOISE, IDAHO FOR PARALLAM PSL (ESR 1387)
3. LVL & PSL GRADE SCHEDULE:

SIZE NOTED ON PLAN	GRADE & GRADE MARK	F_C	F_V	E
1 3/4" WIDE	MICRO-LAM LVL	2600 PSI	285 PSI	285 PSI
2 11/16" WIDE	PARALLAM PSL	2900 PSI	290 PSI	290 PSI
3 1/2" WIDE	PARALLAM PSL	2900 PSI	290 PSI	290 PSI
5 1/4" WIDE	PARALLAM PSL	2900 PSI	290 PSI	290 PSI
7" WIDE	PARALLAM PSL	2900 PSI	290 PSI	290 PSI

MANUFACTURED LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) SHALL BE FABRICATED IN THE SHOP OF A LICENSED FABRICATOR. ALL PIECES SHALL BE STAMPED WITH THE MANUFACTURER'S LOGO.
MANUFACTURED LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED. TREATMENT SHALL BE IN ACCORDANCE WITH AWPA STANDARD C-9 FOR ABOVE GROUND USE EXPOSED TO WEATHER. TREATMENT SHALL BE CHROMATED COPPER ARSENATE WITH A RETENTION LEVEL OF NOT LESS THAN 0.40 LB./CU FT. TO A DEPTH OF 0.50 IN. AFTER INSTAL-LATION, EXTERIOR EXPOSED SURFACES SHALL BE PROTECTED WITH A MINIMUM OF TWO COATS OF SEALER. INTERIOR SURFACES SHALL BE COVERED BY FRAMING OR DRYWALL. A CERTIFICATE INDICATING CONFORMANCE TO AWPA C-9, AND THE TYPE OF TREATMENT SHALL BE MADE BY THE TREATER. A COPY OF THE CERTIFICATE SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO ERECTION OF THE FRAMING AND TO THE ARCHITECT AND ENGINEER.

WOOD NOTES

1. SAWN WOOD MEMBERS SHALL BE DOUGLAS FIR OR LARCH, S4S, AND SHALL BE GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLIB & WWPA) APPROVED BY (ICC)
2. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH.

TWO STORY				
FLOOR	LOCATION	SIZE	SPACING	GRADE
2nd	EXTERIOR	2x6	16" O.C.	STUD
	INTERIOR	2x4	16" O.C.	STUD
1st	EXTERIOR	2x6	16" O.C.	STUD
	INTERIOR	2x6/2x4	16"/12" O.C.	STUD

2x4 FRAMING LUMBER AND STUDS UNDER 9'	STUD OR BETTER, U.N.O.
92 1/4" 104 1/4" AND 116 1/4" 2x4 STUDS	CONSTRUCTION GRADE
2x4 STUDS 10' and OVER	#1 OR BETTER
2x6 STUDS	STUD OR BETTER
2x4 SILLS AND PLATES	STUD OR BETTER, U.N.O.
2x6 SILLS AND PLATES	#2 OR BETTER
FLOOR JOISTS	#1 OR BETTER
4x4 STUDS AND POSTS	#2 OR BETTER
4x4, 4x6, 4x8, 4x10 BEAMS AND HEADERS	#2 OR BETTER
4x12, 4x14 BEAMS AND HEADERS	#1 OR BETTER
6x4 BEAMS AND HEADERS	#1 OR BETTER
6x6 AND LARGER BEAM AND HEADERS	#1 OR BETTER

3. ALL SILLS OR PLATES BEARING ON CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR (P.T.D.F.). VERIFY THAT PRESSURE TREATED LUMBER IS COMPATIBLE WITH THE GALVANIZED ANCHOR BOLTS, HOLDOWNS AND OTHER GALVANIZED STEEL ITEMS.
4. ALL SILLS OR PLATES BEARING ON CONCRETE SHALL HAVE ANCHOR BOLTS. U.N.O.
   A. PLACED 9 INCHES FROM EACH END (OR FROM A NOTCH)
   B. SPACED AS SHOWN ON THE DRAWINGS (BETWEEN BOLTS NOTED IN A).
5. TYPICAL WALL SHEATHING:
   INTERIOR SURFACES: 1/2" GYPSUM WALLBOARD w/ 5d COOLER NAILS, OR EQUAL, AT 7" O.C. TO ALL STUDS AND TOP & BTM. PLATES (UNBLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF ALL INTERIOR WALLS.
   EXTERIOR SURFACES: 1/8" EXTERIOR CEMENT PLASTER OVER WIRE LATH OVER TYPE 15 BUILDING PAPER, LATH ATTACHED TO ALL STUDS AND TOP AND BTM. PLATES W/16 GAGE x7/8" STAPLES AT 6" O.C. OR NO. 11 GAGE x1 1/2 FURRING NAILS WHERE INDICATED ON ELEVATIONS.
6. SHEAR TRANSFER:
   ROOF TO WALL: CONNECT ROOF TRUSSES TO TOP PLATE w/ SIMPSON H1 AT 24" O.C. OR A35 AT 24" O.C. UNLESS NOTED ON SHEAR WALL SCHEDULE
   FLOOR TO WALL: CONNECT JOIST RIM OR JOIST TO WALL PLATE w/ 16d AT 12" O.C., OR SOLID BLOCKING OR RIM TO WALL PLATE w/ A35 A35F, OR LPT4 AT 32" O.C. UNLESS NOTED ON SHEAR SHEAR WALL SCHEDULE.
7. SILL PLATE ANCHORS:
   UPPER FLOOR WALLS: 16d AT 6" O.C. TO JOIST OR 2x SOLID BLOCKING, AT SHEARWALLS, NAIL PER SCHEDULE INTO JOIST, RIM, 2x EDGE, OR 2x FLAT TO ACHIEVE REQUIRED SPACING, SEE DETAILS AND SHEARWALL SCHEDULE.
   FIRST STORY NON SHEARWALLS: .145 DIA.x2 7/8" HILTI X-ZP LOW VELOCITY DRIVE FASTENERS AT 16" O.C. EXTERIOR; 24" O.C. INTERIOR, INSTALLED PER ICBO EVALUATION REPORT ESR-2379 AND NOT MORE THAN 9" FROM ENDS. MINIMUM EDGE DISTANCE SHALL BE 1 3/4 INCH; MINIMUM END DISTANCE SHALL BE 1 3/4"
8. ALL BOLT HEADS, NUTS AND LAG SCREWS BEARING ON WOOD SHALL HAVE CUT WASHERS UNLESS OTHERWISE NOTED. ALL ANCHORS BOLTS SHALL HAVE A 3"x3" SQUARE x 1/4 INCH STEEL PLATE WASHER, GALVANIZED. ALL BOLTS SHALL BE GALVANIZED.
9. BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" LARGER THAN THE NOMINAL BOLT DIAMETER.
10. NAILING OF SAWN WOOD MEMBERS, U.N.O. ON THE DRAWINGS, SHALL CONFORM TO THE CBC STANDARD 25-17 AND THE NAILING SCHEDULE.
11. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE BUILDING OFFICIAL. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
12. NAILS, UNLESS NOTED OTHERWISE, SHALL BE COMMON NAILS CONFORMING TO CBC, CHAPTER 23.
13. SPECIAL CONNECTORS FOR CONNECTING WOOD OR GLUED LAMINATED TIMBER SHALL BE FABRICATED FROM STEEL CONFORMING TO ASTM A36. WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, LATEST EDITION
14. DIAPHRAGM NAILING SHALL CONFORM TO TABLES 23-I-J-1 AND 23-I-K-1 OF CBC WITH NOMENCLATURE DEFINED AS FOLLOWS:
    BN = NAILING AT DIAPHRAGM BOUNDARIES, CONTINUOUS PANEL EDGES, AND AT EDGES OF OPENING.
    EN = EDGE NAILING
    FN = FIELD NAILING
15. WHERE THE DIAPHRAGM BLOCKING IS SPECIFIED, USE 2x4 BLOCKING (WITH "Z" CLIPS). U.N.O.
16. SIMPLE SPAN WOOD MEMBERS, NOT SHOP CAMBERED, SHALL BE ERECTED WITH THE NATURAL CAMBER UP. FOR CANTILEVERED WOOD MEMBERS, CONSULT WITH ENGINEER.
17. LEAD HOLES FOR LAG SCREWS IN WOOD SHALL BE BORED AS FOLLOWS:
    FOR SHANK: SAME DIAMETER AND LENGTH AS UNTHREADED SHANK.
    FOR THREADED PORTION: 60% TO 75% OF SHANK DIAMETER & LENGTH EQUAL TO THE THREADED PORTION.
18. ALL NAILS LARGER THAN 16d AND ALL NAILING TENDING TO CAUSE SPLITTING OF WOOD MEMBERS, SHALL BE INSTALLED IN PRE DRILLED LEAD HOLES
19. PROVIDE DOUBLE STUD TO SUPPORT ALL BEAMS, GIRDERS, AND HIP TRUSSES UNLESS POSTS ARE SPECIFIED.
20. PROVIDE DOUBLE BLOCKING UNDER ALL POSTS.
21. PROVIDE DOUBLE JOIST UNDER ALL PARALLEL PARTITIONS UNLESS OTHERWISE SPECIFIED.
22. TOP PLATES OF ALL WOOD STUD WALLS SHALL BE (2)-2x (SAME WIDTH AS STUDS), LAP 48" (MIN.), WITH AT LEAST (16)-16d NAILS AT EACH SIDE OF LAP AND NOT MORE THAN 12" BETWEEN, U.N.O.
23. CUTTING, NOTCHING, OR DRILLING OF BEAMS OR JOISTS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER AND/OR PER IBC, CHAPTER 23
24. MOISTURE CONTENT OF WOOD AT TIME OF PLACEMENT SHALL NOT EXCEED 19%.
25. PROVIDE 2x4 TRIM AND 2x4 KING STUD EACH END OF EACH 4x DROPPED BEAM OR HEADER.
26. PROVIDE 2x6 TRIM AND 2x6 KING STUD EACH END OF EACH 6x DROPPED BEAM OR HEADER.
27. PROVIDE MINIMUM 2 1/4" BEARING AT EACH END OF EACH FLUSH BEAM OR HEADER - WHERE BEARING IS ON TOP PLATE PROVIDE 2x4 STUD WITHIN 3" OF BEARING POINT. PROVIDE (3) 2x4 STUDS AT 6x OR LSL OR PSL BEAMS.
28. PROVIDE SOLID BLOCKING BETWEEN ROOF RAFTERS, CEILING JOISTS AND FLOOR JOIST AT BEARING LOCATIONS AND AT MID SPAN OF SPANS GREATER THAN 8'-0" OR AS NOTED. SIZE SHALL MATCH FRAMING MEMBER.
29. LAP FRAMING MEMBERS WHICH BEAR ON 2x4 STUDS OR PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.
30. SOLID FRAMING LUMBER REQUIRED TO BE PRESERVATIVE TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION. AWPA STANDARD C-2, LUMBER, TIMBERS BRIDGE AND MINE TIES-PRESSURE TREATMENT. PLYWOOD REQUIRED TO BE PRESERVATIVE TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION, AWPA STANDARD C-9. PLYWOOD-PRESERVATIVE TREATMENT.TREATMENT SHALL APPROPRIATE FOR THE LOCATION OF THE WOOD BEING EITHER ABOVE GROUND OR GROUND CONTACT. TREATMENT SHALL BE WITH AMMONIACAL COPPER ZINC ARSENATE (CHEMONITE). A GRADE MARK INDICATING CONFORMANCE TO THE TREATED STANDARD, AND THE TYPE OF TREATMENT SHALL BE AFFIXED TO THE MATERIAL. THE INSPECTION AGENCY SHALL BE INDEPENDENT OF THE STREATING PLANT. THE INSPECTION AGENCY SHALL BE UNDER THE SUPERVISION OF THE AMERICAN WOOD PRESERVERS BUREAU INSPECTION SHALL BE IN ACCORDANCE WITH AWPB LP, STANDARD. AFTER INSTALLATION, EXPOSED SURFACES SHALL BE PROTECTED WITH A MINIMUM OF TWO COATS OF SEALER. INTERIOR SURFACES SHALL BE COVERED BY FRAMING OR DRYWAL.
31. WHERE JOISTS, RAFTERS, OR BEAMS FRAME TOGETHER OR TO EACH OTHER AT THE SAME ELEVATION, PROVIDE FACE NAIL HANGER OR TOP FLANGE HANGERS.
32. MULTI-MEMBER BEAMS SHALL BE ATTACHED TOGETHER BY GLUING AND NAILING WITH 10D NAILS AT 6" O.C. STAGGERED TOP AND BOTTOM.
33. LUMBER SHALL BE DRY AND WELL SEASONED, AND THE MOISTURE CONTENT SHALL NOT EXCEED 19% AT THE TIME THE STRUCTURE IS WRAPPED. ALL LUMBER SHALL BE AIR-SEASONED NOT LESS THAN 30 DAYS BEFORE BEING COVERED WITH FINISHING MATERIALS UNLESS TESTS ARE MADE OF ITS MOISTURE CONTENT.

SHEATHING

1. PLACE ROOF SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 8d COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 12" O.C. AT INTERMEDIATE SUPPORTS (UNLESS NOTED OTHERWISE)

2. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS AND STAGGERD.

3. SHEATHING WHICH RECEIVES LIGHTWEIGHT INSULATING CONCRETE TO BE COVERED WITH 4 MIL. POLYETHYLENE FILM.

4. LEAVE 1/8" SPACE AT ALL PANEL EDGE JOINTS AND END JOINTS UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER.

5. WOOD PRODUCT PANELS (PLYWOOD, COMPOSITE PANELS, WAFER BOARD, ORIENTED STRAND BOARD, STRUCTURAL PARTICLE BOARD) SHALL BE IN CONFORMANCE WITH US. PRODUCT STANDARD PS-1, CONSTRUCTION AND INDUSTRIAL PLYWOOD OR SHALL CONFORM WITH US. PRODUCT STANDARD PS 2, PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL-USE PANELS AS NOTED BELOW. A GRADE MARK INDICATING CONFORMANCE TO THE APPROPRIATE STANDARD SHALL BE AFFIXED TO THE MATERIAL BY AN INDEPENDENT GRADING AGENCY. GRADING SHALL BE PERFORMED BY THE APA-THE ENGINEERED WOOD ASSOCIATION. TACOMA, WASHINGTON. OR BY TIMBERCO, INC. D.B.A. TECO, EUGENE, OREGON,

6. PANELS WHICH MAY HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER OR TO MOISTURE SHALL HAVE AN EXPOSURE DURABILITY OF EXTERIOR GRADE EXCEPT THAT THE ROOF SHEATHING EXPOSED ONLY ON THE UNDERSIDE NEED ONLY BE EXPOSURE 1.

7. THE SPACING IN INCHES OF ROOF AND FLOOR SUPPORTS OVER WHICH PANELS ARE APPLIED SHALL NOT EXCEED THE SPAN RATING OF THE PANELS.

8. THE NUMBER OF PLY AND LAYERS SHALL BE AT LEAST THAT GIVEN BELOW. ALTERNATIVE GRADES, THICKNESS, INDICES, SPECIES AND GRADING AGENCIES MAY BE USED ONLY WITH SPECIFIC APPROVAL OF THE ENGINEER, AND ONLY UPON SUBMITTAL OF A LISTING OF GRADES, THICKNESS, INDICES, SPECIES AND GRADING AGENCIES TO BE SUBSTITUTED.

WOOD PANEL GRADE SCHEDULE:

USE	US PRODUCT STANDARD	PANEL GRADE	PLY & LAYER	EXPOSURE DURABILITY	INDEX & THICKNESS
ROOF, WITH RADIANT RETARDANT	PS 1 OR 2	CD-X STRUCTURAL 1	3/3	EXPOSURE 1	32/16 1/2"
FLOOR	PS 1 OR 2	CD-X STRUCTURAL 1	4/3	EXPOSURE 1	48/24 3/4"
DECK PLYWOOD ONLY	PS 1 OR 2	CD-X STRUCTURAL 1	4/3	EXPOSURE 1	48/24 3/4"
WALL (1/2")	PS 1 ONLY	CD-X STRUCTURAL 1	3/3	EXPOSURE 1	24/0 1/2"
WALL (15/32")	PS 1 ONLY	STRUCTURAL 1	4/3	EXPOSURE 1	24/0 1/2"

FASTENERS AND SUPPORTS

1. GENERIC NAILS SHALL BE OF STEEL WIRE. ALL NAILS SHOWN ON DRAWINGS, AND NOT SPECIFIED OTHERWISE, SHALL BE SINKER OR COMMON NAILS. SINKER, BOX OR OTHER CONFIGURATION OF NAILS MAY NOT BE SUBSTITUTED FOR COMMON NAILS WHEN COMMON NAILS ARE SHOWN ON THE DRAWINGS.
2. PNEUMATIC SHALL BE SUBSTITUTED FOR GENERIC NAILS PROVIDED THEY ARE OF THE SAME DIMENSIONS AS GENERIC NAILS WITH THE EXCEPTION OF THE NAIL HEAD. PNEUMATIC NAIL DIMENSIONS MAY BE LARGER IN DIAMETER THAN GENERIC NAILS BY UP TO THE SIZE OF A COMMON NAIL WITHIN THE SAME PENNY WEIGHT CLASSIFICATION. THE HEAD MAY, IN ADDITION TO BEING OF A STANDARD-DIAMETER ROUND-HEAD TYPE, BE A T-SHAPED OR MODIFIED ROUND-HEAD. PNEUMATIC NAILS SHALL BE ESR APPROVED.
3. NAIL SIZES SHALL CONFORM WITH THE FOLLOWING TABLE. WHEN NECESSARY TO PREVENT SPLITTING OF THE WOOD, A PRE-BORED PILOT HOLE SHALL BE DRILLED.

SIZE & NAME	NAIL LENGTH	WIRE DIA.	WIRE GAUGE	HEAD DIA.
8d JST HANGER (SIMP. N8)	1-1/2"	0.131"	10-1/4	0.281"
8d PASIODE BRAND	1-1/2"	0.131"		
8d RING SHANK	2-3/8"	0.120"	11	0.297"
8d COMMON	2-1/2"	0.131"	10-1/4	0.281"
10d JST HANGER (SIMP. N10)	1-1/2"	0.148"	9	0.312"
10d PASIODE BRAND	1-1/2"	0.148"		
10d PLYWOOD	2-1/4"	0.148"	9	0.312"
10d PLYWOOD RING	2-3/8"	0.135"	10	0.312"
10d COMMON	3"	0.148"	9	0.312"
16d JST HANGER (SIMP. N16)	2-1/2"	0.162"	8	0.344"
16d PASIODE BRAND	2-1/2"	0.162"		
16d SHORT (FRAMER)	3-1/4"	0.131"	10-1/4	0.281"
16d BOX	3-1/2"	0.135"	10	0.344"
16d SINKER	3-1/4"	0.148"	9	0.344"
16d COMMON	3-1/2"	0.162"	8	0.344"
20d BOX	4"	0.148"	9	0.375"
20d COMMON	4"	0.192"	6	0.406"
20d SIMPSON N20A, RING	1-3/4"	0.192"	6	0.406"
20d SIMPSON N20AN, RING	2-1/8"	0.192"	6	0.406"
40d COMMON	5"	0.225"	4	0.469"
5Od SIMPSON N54A, RING	2-1/2"	0.250"	3	0.469"

4. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE BUILDING OFFICIAL. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
5. LEAD HOLES FOR LAG SCREWS IN WOOD SHALL BE BORED AS FOLLOWS:
   FOR SHANK: SAME DIAMETER AND LENGTH AS UNTHREADED SHANK. FOR THREADED PORTION: 60% TO 75% OF SHANK DIAMETER & LENGTH EQUAL TO THE THREADED PORTION.
6. ADHESIVE USED TO ATTACH FLOOR SHEATHING TO FRAMING SHALL CONFORM WITH AMERICAN PLYWOOD ASSOCIATION SPECIFICATION AFG-01, ADHESIVES FOR FIELD-GLUING PLYWOOD TO WOOD FRAMING. THE ADHESIVE SHALL BE CERTIFIED AS CONFORMING TO AFG-01 BY A TESTING AGENCY APPROVED BY THE BUILDING OFFICIAL ADHESIVE SHALL MEET THE REQUIREMENTS FOR WET CONDITION OF SERVICE. ALTERNATIVES MAY BE USED ONLY WITH SPECIFIC APPROVAL OF THE ENGINEER, AND ONLY UPON SUBMITTAL OF A LISTING OF ADHESIVES TO BE SUBSTITUTED.
7. MANUFACTURED HARDWARE SHALL BE SIMPSON COMPANY PRODUCTS. ALTERNATIVES ARE NOT PERMITTED, EXCEPT FOR USP PRODUCTS.
8A. BOLTS FOR WOOD SHALL BE OF METAL CONFORMING WITH ASTM A 307, LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED STANDARD FASTENERS AND SHALL CONFORM WITH ANSI/ASME B 18.2.1, SQUARE AND HEX BOLTS AND SCREWS (INCH SERIES). WASHERS SHALL BE USED UNDER ALL BOLT HEADS AND NUTS BEARING ON WOOD. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
BOLTING HOLE SCHEDULE:

BOLT DIAMETER	HOLE THROUGH WOOD
1/4 INCH	9/32 INCH
3/8 INCH	13/32 INCH
1/2 INCH	9/16 INCH
5/8 INCH	11/16 INCH
3/4 INCH	13/16 INCH
7/8 INCH	15/16 INCH
1 INCH	1 1/16 INCH

8B. ROUND WASHERS SHALL BE ANSI. ASME B 18.221, PLAIN WASHERS. SQUARE WASHERS SHALL BE OF MILD STEEL. WASHERS SHALL BE USED UNDER ALL HEADS AND NUTS BEARING ON WOOD. MACHINE BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
WASHER SCHEDULE:

BOLT DIA.	WASHER INSIDE DIA.	ROUND WASHER OUTSIDE DIA.	ROUND WASHER THICKNESS	SQUARE WASHER SIDE LENGTH	SQUARE WASHER THICKNESS
1/4"	5/16"	3/4"	1/16"		
3/8"	7/16"	1"	5/64"		
1/2"	9/16"	1-3/8"	5/64"	2"	3/16"
5/8"	11/16"	1-3/4"	9/64"	2-1/2"	1/4"
3/4"	13/16"	2"	5/32"	2-3/4"	5/16"
7/8"	15/16"	2-1/4"	11/64"	3"	5/16"
1"	1 1/16"	2-1/2"	11/64"	3-1/2"	3/8"

9. BOLTS FOR STEEL CONNECTIONS SHALL CONFORM TO ASTM A325. CONNECTION SHALL BE BEARING TYPE CONNECTION WITH WASHERS ASTM 436. NUTS SHALL CONFORM TO ASTM A563.

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Project: 18302
Date: 5/17/2019

S102

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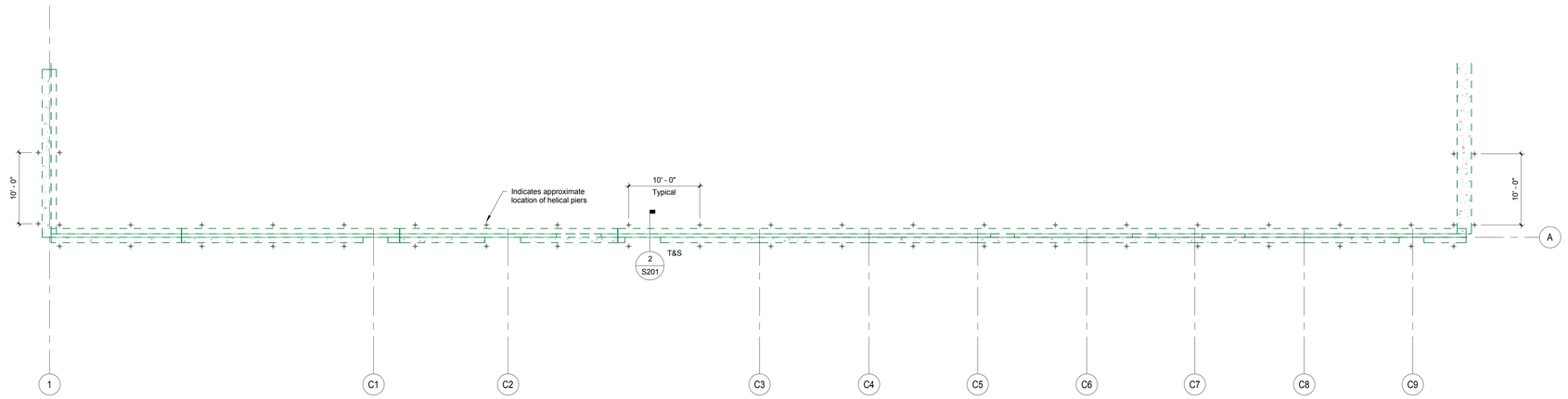
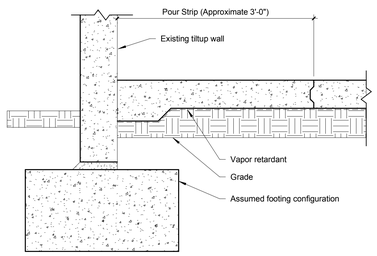
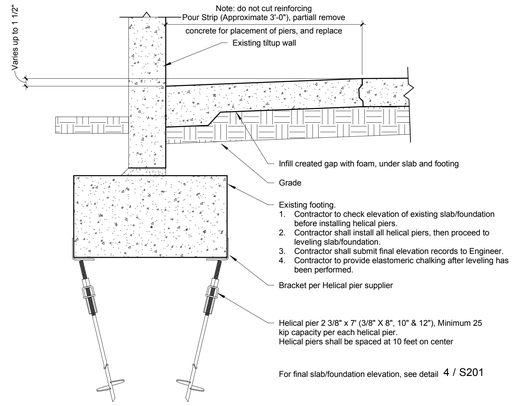


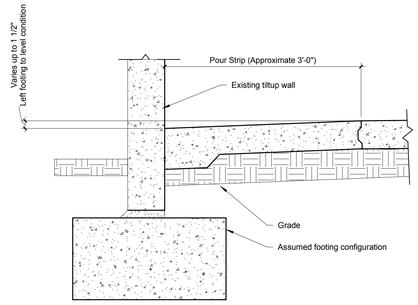
Existing Foundation Leveling Plan 1
1/8" = 1'-0" S202 S201



Ideal Footing, Leveling 4
1" = 1'-0" S201



Actual Footing, Leveling 3
1" = 1'-0" S201



Approximate Actual Conition 2
1" = 1'-0" S201 S201

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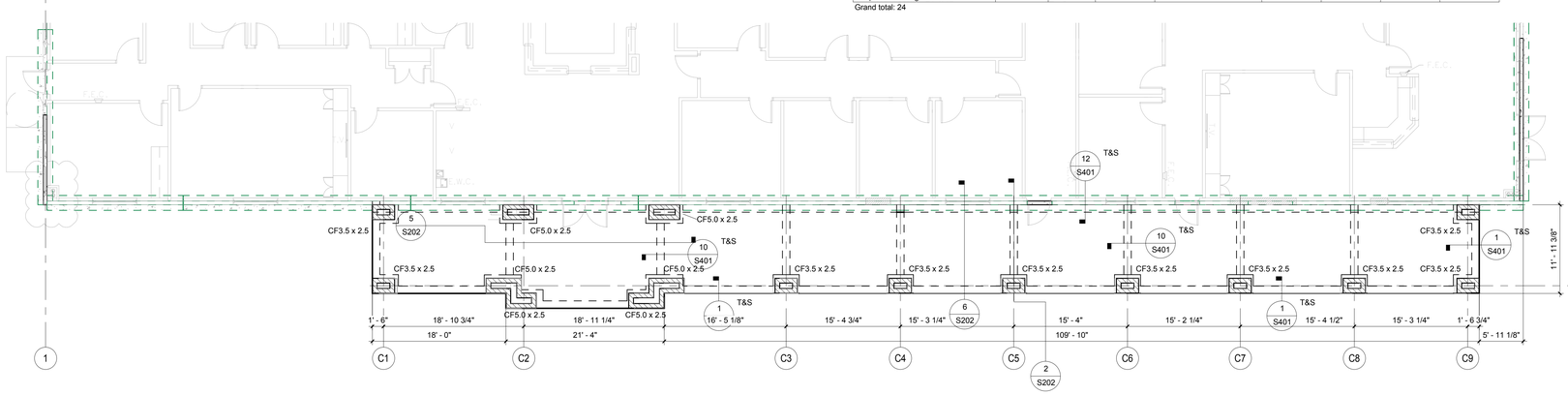
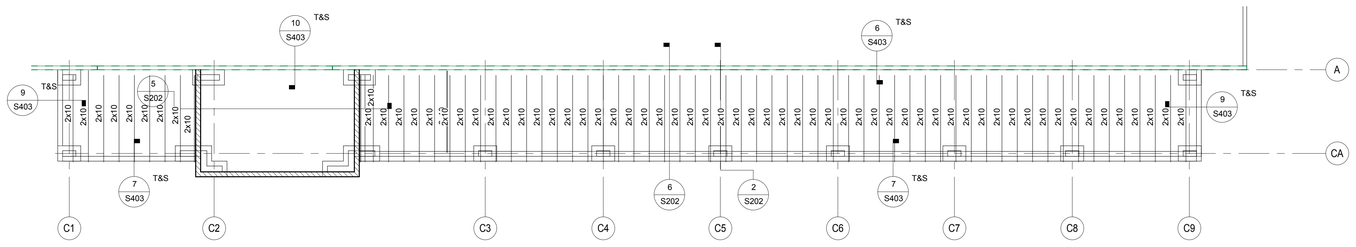
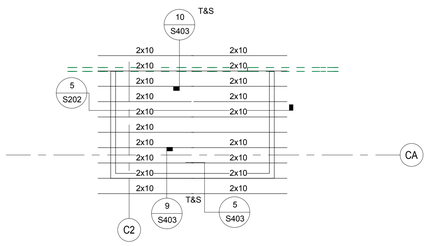
Z-Structural Foundation Schedule								
	Size							
TYPE	LENGTH	WIDTH	Thickness	BOTTOM OF FOOTING ELEVATION	Reinforcing A Bar Quantity	Reinforcing A Bar Size	Reinforcing B Bar Quantity	Reinforcing B Bar Size
5" Foundation Slab				-5"				
CF3.5 x 2.5	2' - 6"	3' - 6"	3' - 0"	-3' - 0"	6	6	6	5
CF5.0 x 2.5	2' - 6"	5' - 0"	3' - 0"	-3' - 0"	6	6	6	5
Tiltup Wall Footing - 24" x 12"		2' - 0"						
Grand total: 24								



Foundation Plan 1 (S202, S202)
1/8" = 1'-0"



Roof Framing Plan 3 (S202, S202)
1/8" = 1'-0"



Tower Roof Framing Plan 4 (S202, S202)
1/8" = 1'-0"

FOUNDATION NOTES

1. FOR GENERAL NOTES SEE SHEET S101 AND S102
2. FOR TYPICAL DETAILS SEE SHEETS NUMBER S400'S
3. CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
5. REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
6. SLOPE SLAB TO DRAINS, SEE ARCHITECTURAL PLANS FOR SLOPE.
7. REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
8. THE TESTING LABORATORY SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL. THE TESTING LABORATORY SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
9. ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE MORE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
10. IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
11. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
12. THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
13. CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
14. WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
15. DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
16. AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
17. THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. (P1 BETWEEN 15 AND 25)
18. NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
19. CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED:
    a) REMOVAL AND REPLACEMENT WITH SELECT FILL;
    b) CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE.
    c) DRYING BY NATURAL MEANS.

SLAB ON GRADE	
THICKNESS	5.0 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	15 MIL

SUBGRADE PREPARATION

1. SITE PREPARATION

A. PREPARATION OF EXISTING GROUND
ALL AREAS TO SUPPORT SELECT FILL SHALL BE STRIPPED OF ALL VEGETATION AND/OR ORGANIC TOPSOIL: 12 INCHES
ADDITIONAL DEPTH OF REMOVAL: 6.5 FEET
EXTEND BEYOND BUILDING FOOT PRINT: 5 FEET
EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF: 8 INCHES
MOISTURE: (OPTIMUM MOISTURE CONTENT) 0 TO +4%
COMPACTION (ASTM D-698) (MAXIMUM DENSITY): 98%

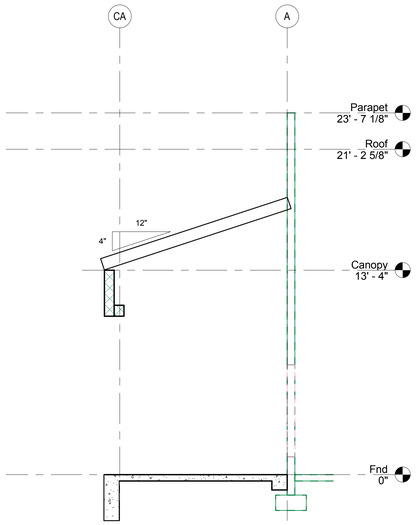
B. SELECT FILL MATERIAL
AMOUNT OF COMPACTED SELECT FILL 78* INCHES
NO ORGANIC OR OTHER PERISHABLE MATERIAL
NO STONES LARGER THAN 2 INCHES
*FINISHED FLOOR SHALL BE AS INDICATED ON CIVIL DRAWINGS, INCREASE INDICATED AMOUNT OF FILL AS REQUIRED TO ACHIEVE MOST STRINGENT REQUIREMENT. INCREASE EXCAVATION AS REQUIRED TO MEET MINIMUM AMOUNT OF SELECT FILL

SELECT FILL SHALL MEET Tx DOT 2004 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, ITEM 247 FLEXIBLE BASE, TYPE A, TYPE B, OR TYPE C GRADES I THROUGH 3

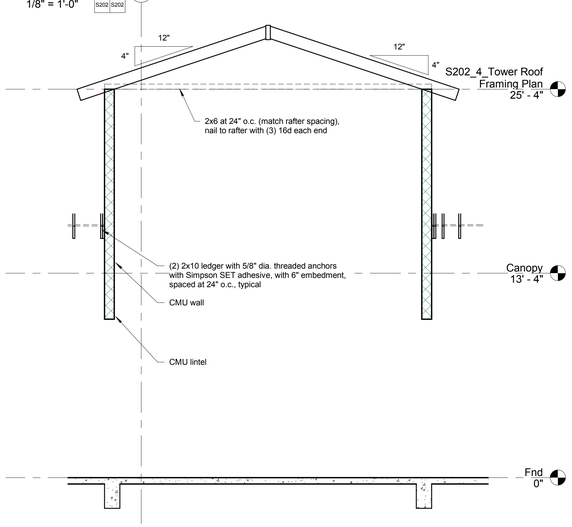
C. PLACING SELECT FILL
FILL LIFTS (LOOSE MEASURE, NOT EXCEEDING): 8 INCHES

D. COMPACTION OF SELECT FILL
-2 TO +2
COMPACTION (ASTM D-698) (MAXIMUM DENSITY): 98%

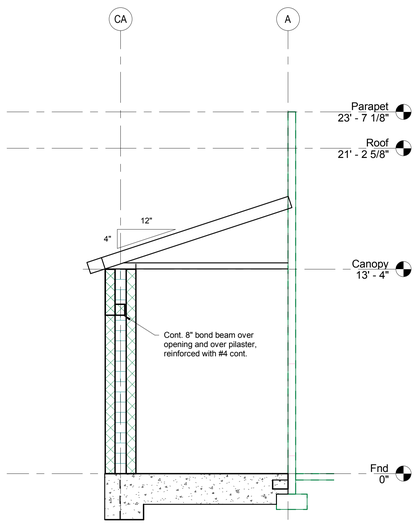
E. COMPACTION TESTING
ATTERBERG LIMITS (ONE AT A RATE OF): 5,000 CU. YDS.
COMPACTION (ONE TEST PER): 3,000 SQ. FT./ LIFT (MIN. OF 3 PER LIFT)



Canopy Section 6 (S202, S202)
1/4" = 1'-0"



Section 1 5 (S202, S202)
1/4" = 1'-0"



Canopy Section 2 (S202, S202)
1/4" = 1'-0"

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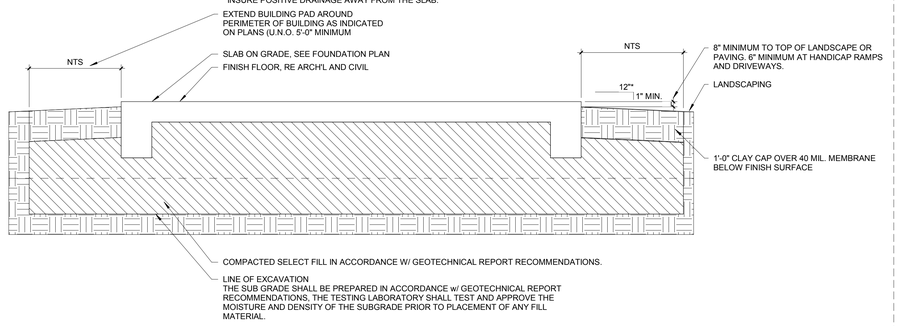
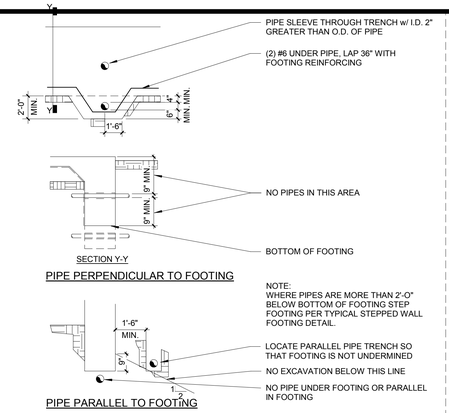
S202



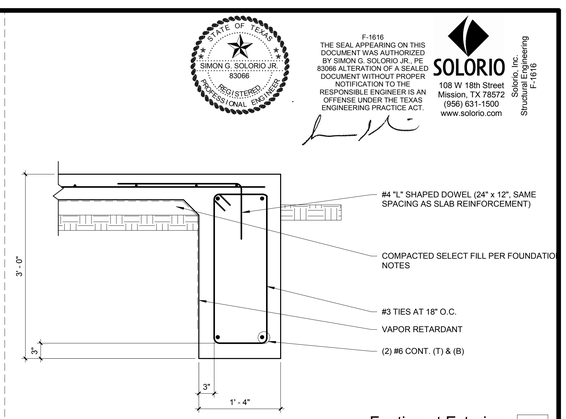
Typical Building Subgrade Preparation

1" = 1'-0" | 9 | S401



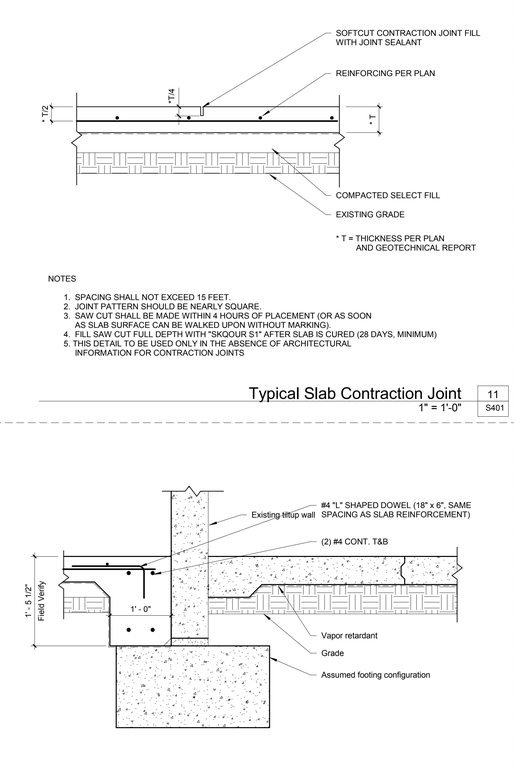
Typical Piping Through Footing

3/8" = 1'-0" | 5 | S401



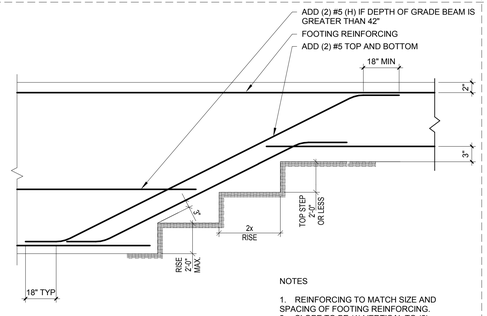
Footing at Exterior

1" = 1'-0" | 1 | S202 S401



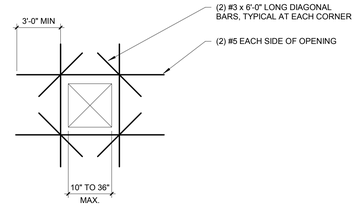
Footing at Interior, 12x30

1" = 1'-0" | 10 | S202 S401



Typical Stepped Footing

1" = 1'-0" | 6 | S401

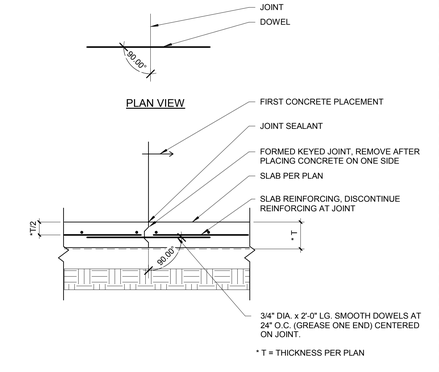


Typical Slab Opening Reinforcing

1/4" = 1'-0" | 2 | S401

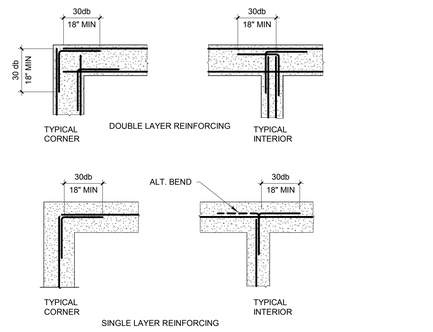
Typical Slab Contraction Joint

1" = 1'-0" | 11 | S401



Typical Slab Construction Joint

1" = 1'-0" | 7 | S401

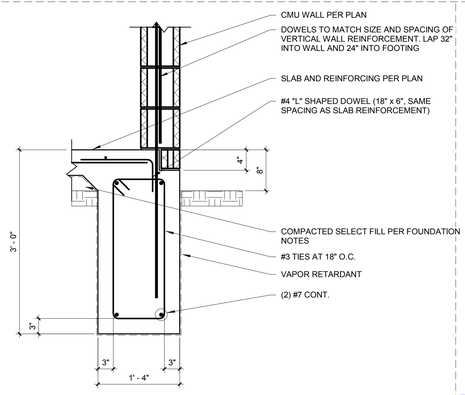


Typical Reinforcing at Concrete Intersections

1/4" = 1'-0" | 3 | S401

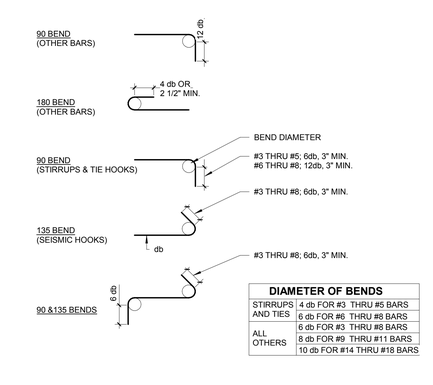
Footing at Existing Tiltup Wall

1" = 1'-0" | 12 | S202 S401



Footing at Exterior CMU Wall w/ Ledge

1" = 1'-0" | 8 | S401



Typical Reinforcing Bends

1/4" = 1'-0" | 4 | S401

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Revision	Date	Issued by	DESCRIPTION

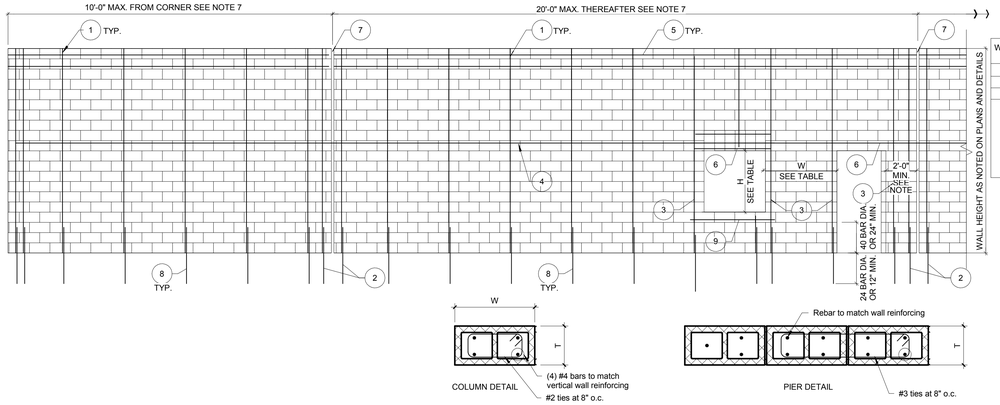
Document issued for:
Construction Documents

PROPOSED

Tropical Texas
Behavioral
Health-Ambulatory
Service Facility

Project: 18302
Date: 5/17/2019

S401



COLUMN DETAIL

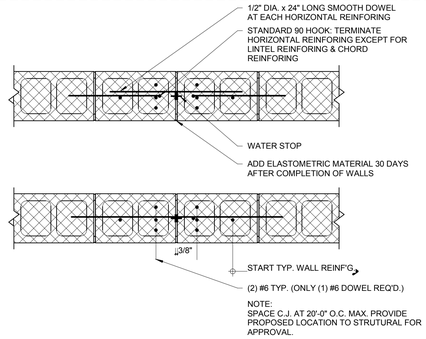
PIER DETAIL

WALL THICKNESS (T)	DIMENSIONAL LIMITS		
	CLEAR	PIER	COLUMN
6"	H > 24" AND W > 32"	H > 24" AND 32" > W > 24"	H > 24" AND W < 24"
8"	H > 32" AND W > 40"	H > 32" AND 40" > W > 24"	H > 32" AND W < 24"
12"	H > 48" AND W > 64"	H > 48" AND 64" > W > 40"	H > 48" AND W < 40"

1. NORMAL WALL REINFORCING AS NOTED ON DETAILS AND DESCRIBED IN GENERAL NOTES.
2. ADDITIONAL VERTICAL REINFORCING AT CONTROL JOINTS - SEE TYPICAL CONTROL JOINT DETAIL.
3. ADDITIONAL VERTICAL REINFORCING AT JAMBS OF ALL WALL OPENINGS.
4. INTERMEDIATE BOND BEAM REINFORCED AND SPACED AS REQUIRED ON DRAWINGS. CUT ONE INTERMEDIATE BOND BEAM SHALL BE PLACED AT WINDOW LINTEL ELEVATION AND AT 8'-0" O.C.
5. ROOF LEVEL BOND BEAM REINFORCED AS NOTED ON DETAILS - CONTINUE ALL REINFORCING UNCUT THROUGH CONTROL JOINTS.
6. LINTEL REINFORCING AS DETAILED AND/OR SCHEDULED.
7. CONTROL JOINTS (CJ): UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS, THE CJ SPACING NOTED IS THE MAXIMUM PERMITTED. THE SPACING OF CJ'S SHALL BE COORDINATED WITH THE WALL OPENING LOCATIONS AND IN NO CASE SHALL A CJ BE LOCATED CLOSER THAN 24" TO THE JAMB OF ANY WALL OPENING.
8. FOUNDATION DOWELS TO MATCH VERTICAL WALL REINFORCING SIZE AND SPACING.
9. SILL LEVEL BOND BEAM REINFORCED AS NOTED IN MASONRY GENERAL NOTES.

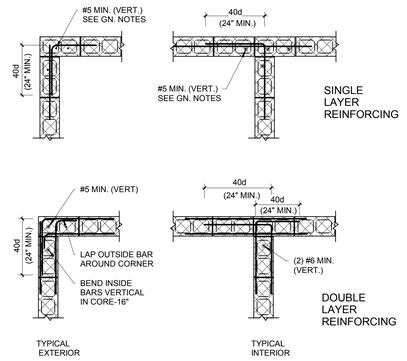
Typical CMU Wall Elevation

1" = 1'-0" | 5 | S402



Typical CMU Control Joint

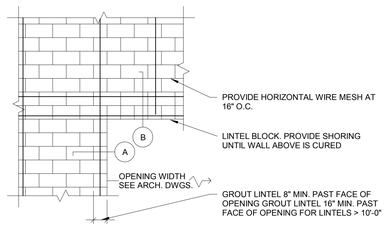
1" = 1'-0" | 14 | S402



Typical CMU Reinforcing at Intersections

1/2" = 1'-0" | 2 | S402

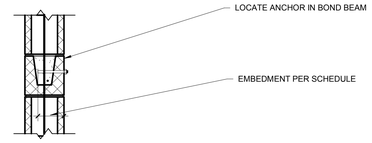
LINTEL SCHEDULE					
CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	8"	8"	(1) #5		
<6'-6"	8"	16"	(1) #5 (T) & (B)	8"	
<10'-0"	8"	16"	(1) #6 (T) & (B)	8"	
<12'-0"	8"	24"	(1) #7 (T) & (B)	8"	
<14'-8"	8"	36"	(1) #7 (T) & (B)	8"	
<16'-0"	8"	24"	(2) #6 (T) & (B)	8"	C.I.P. CONC.
<3'-4"	12"	8"	(2) #5		
<6'-6"	12"	16"	(2) #5 (T) & (B)	8"	
<10'-0"	12"	16"	(2) #6 (T) & (B)	8"	
<12'-0"	12"	24"	(2) #7 (T) & (B)	8"	
<14'-8"	12"	36"	(2) #7 (T) & (B)	8"	
<16'-0"	12"	24"	(2) #6 (T) & (B)	8"	C.I.P. CONC.



Typical CMU Lintel

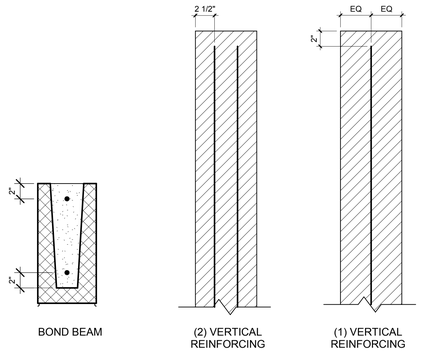
1" = 1'-0" | 8 | S402

DIA.	EMBEDMENT		ADHESIVE
	CONCRETE	MASONRY	
1/2"	4"	6"	SIMPSON SET or HILTI HY150
5/8"	5"	6"	SIMPSON SET
3/4"	6"	6"	SIMPSON SET



Typical CMU Threaded Anchor Embedment

1" = 1'-0" | 3 | S402



Typical CMU Reinforcing Clearances

1 1/2" = 1'-0" | 4 | S402

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Revision	Date	Issued by	DESCRIPTION

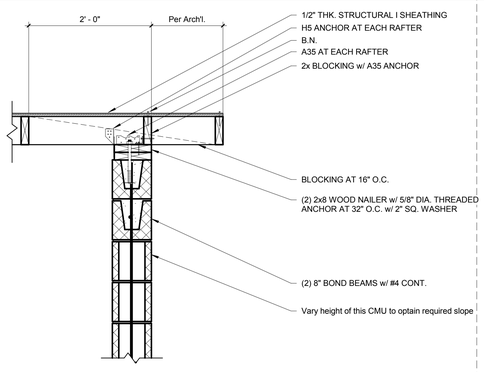
Document issued for:
Construction Documents

PROPOSED

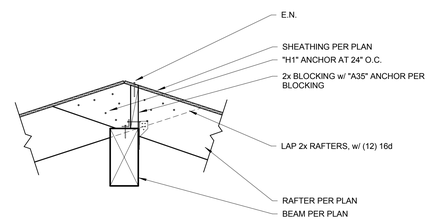
Tropical Texas Behavioral Health-Ambulatory Service Facility

Project: 18302
Date: 5/17/2019

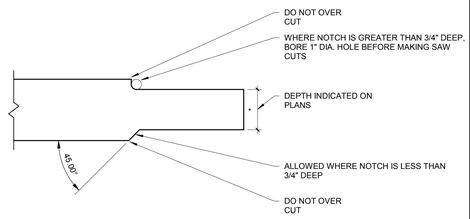
S402



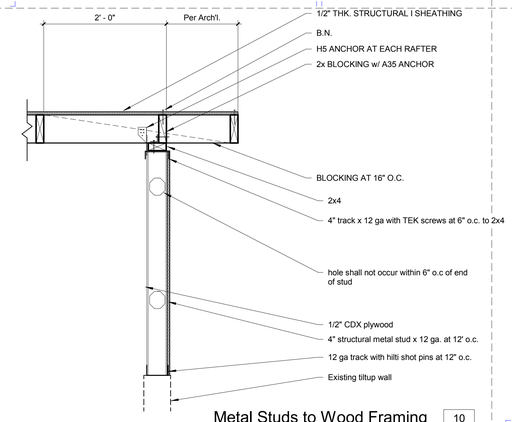
Rafter to CMU, Parallel
1" = 1'-0" | 9 | S202 S403



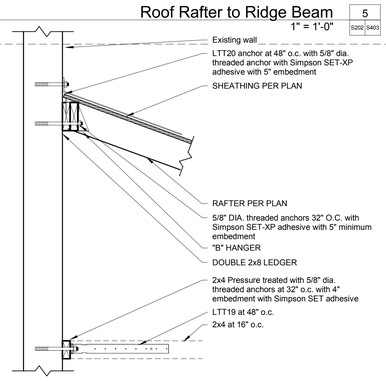
Roof Rafter to Ridge Beam
1" = 1'-0" | 5 | S202 S403



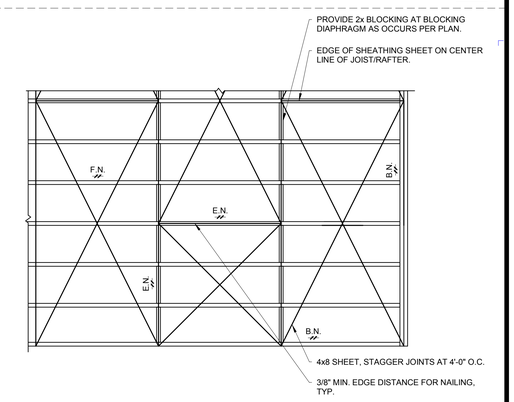
Typical Joist and Rafting Notching
1" = 1'-0" | 2 | S403



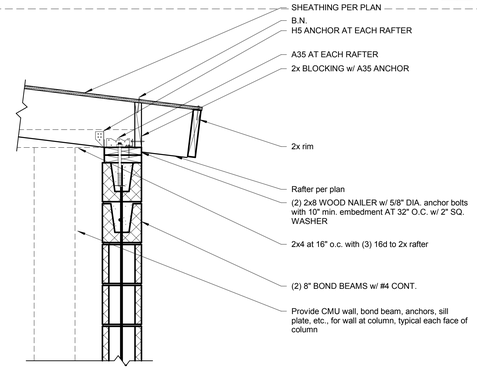
Metal Studs to Wood Framing
1" = 1'-0" | 10 | S202 S403



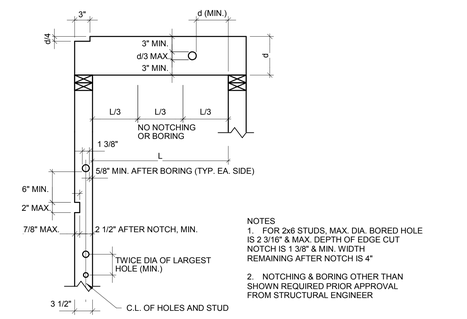
Rafter to (E) Tiltup Wall, Parallel
1" = 1'-0" | 6 | S202 S403



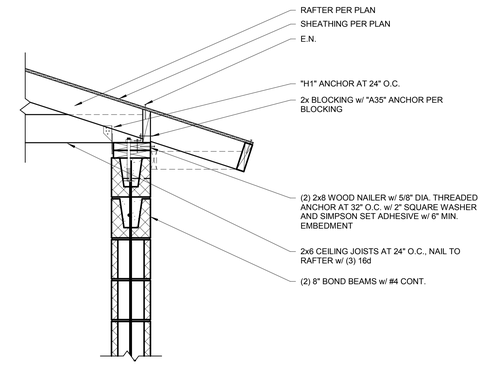
Typical Horizontal Plywood Layout
1/2" = 1'-0" | 1 | S403



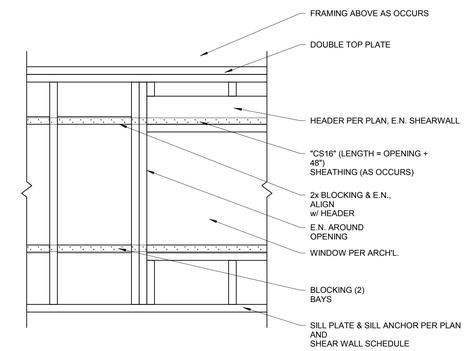
Rafter to CMU, Perp., Sloped, Low No Overhang
1" = 1'-0" | 7 | S202 S403



Typical Notching and Boring
1" = 1'-0" | 3 | S403



Rafter to CMU, Perp.
1" = 1'-0" | 8 | S403



Typical Straps at Openings
1" = 1'-0" | 4 | S403

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McALLEN, TX 78503
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twgarch.com

Revision	Date	Issued by	DESCRIPTION

Document issued for:
Construction Documents

PROPOSED

Tropical Texas Behavioral Health-Ambulatory Service Facility

Project: 18302
Date: 5/17/2019

S403

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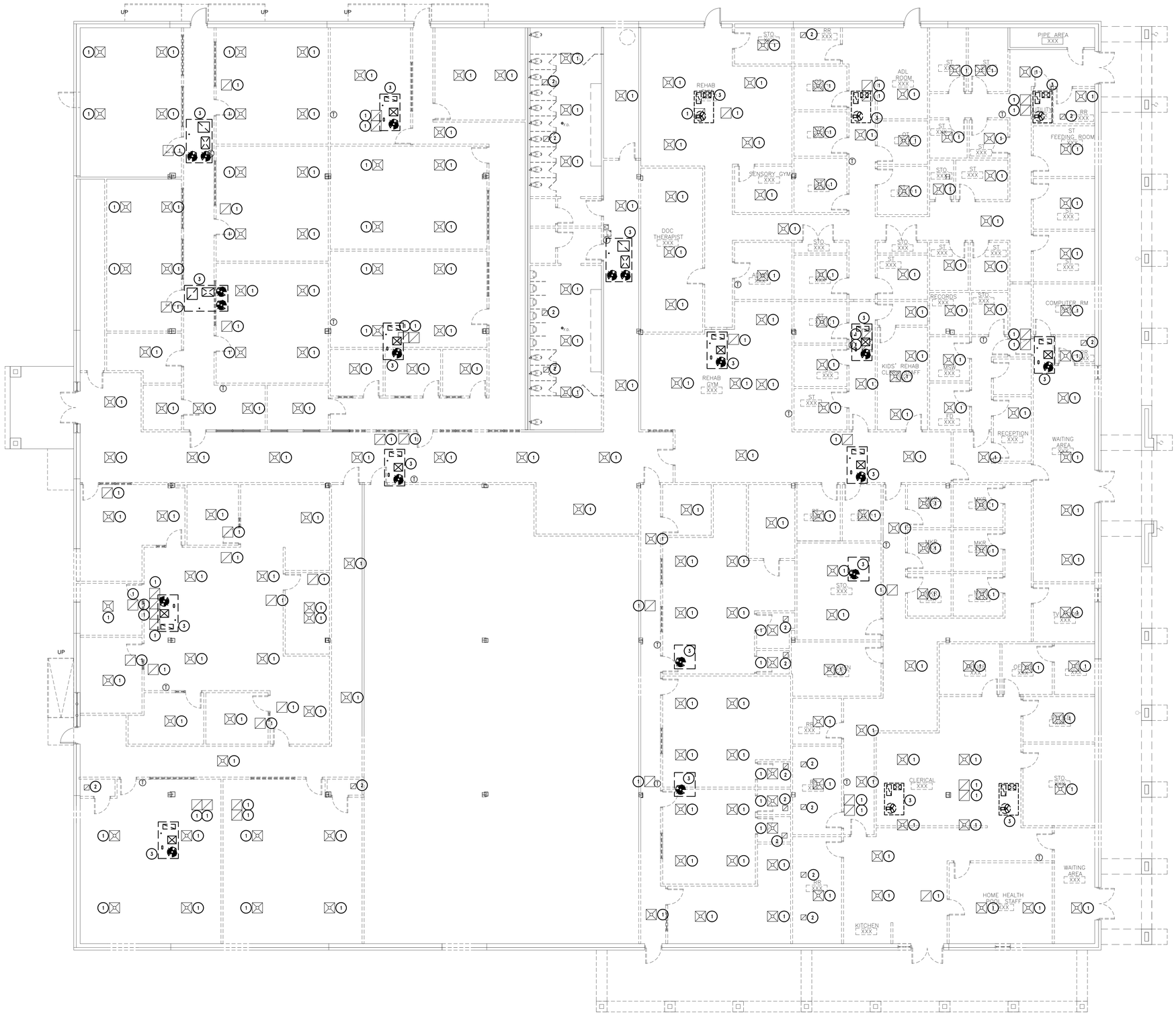

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

C. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.

D. CONTRACTOR SHALL REMOVE AND RELOCATE ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER SPECIFIED LOCATION(S). OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC. SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR.

E. EXISTING MECHANICAL EQUIPMENT CHARGED WITH REFRIGERANT AND SCHEDULED FOR REMOVAL OR DEMOLITION SHALL BE DISPOSED OF IN A LEGAL MANNER.

DEMOLITION KEY NOTES:

1. REMOVE EXISTING AIR DEVICES AND ASSOCIATED DUCTWORK.
2. REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND AIR DEVICES.
3. REMOVE EXISTING ROOF TOP UNIT, ASSOCIATED ROOF CURB, DUCTWORK, CONTROLS, AND CONDENSATE DRAIN LINE.

NORTH

A MECHANICAL FLOOR PLAN – DEMO
SCALE: 1/8" = 1'-0"

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956.994.1900
twgarch.com

REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED
PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

DM1.01

MECHANICAL FLOOR PLAN - DEMO

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE–DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT–APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

J. CONDUITS IN EXISTING WALLS MAY REMAIN. REMOVE CONDUCTORS AND CUT OF AT CLOSEST ACCESSIBLE POINT ABOVE CEILING.

DEMOLITION KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE REMOVED.
2. EXISTING LIGHT SWITCH TO BE REMOVED.
3. EXISTING EXIT SIGN TO BE REMOVED.
4. EXISTING BUGEYE TO BE REMOVED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NORTH

A DEMO – ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'–0"

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REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

DE1.01

DEMO - ELECTRICAL LIGHTING FLOOR PLAN

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

J. CONDUITS IN EXISTING WALLS MAY REMAIN. REMOVE CONDUCTORS AND CUT OF AT CLOSEST ACCESSIBLE POINT ABOVE CEILING.

DEMOLITION KEY NOTES:

1. EXISTING RECEPTACLE TO BE REMOVED.
2. EXISTING TELEPHONE/DATA DEVICE IN WALL TO BE REMOVED.
3. EXISTING FIRE ALARM DEVICE TO BE REMOVED.
4. EXISTING SECURITY DEVICE TO BE REMOVED.
5. EXISTING PANEL TO BE REMOVED.
6. EXISTING J-BOX TO BE REMOVED.
7. EXISTING POWER POLE TO BE REMOVED.
8. EXISTING FURNITURE FEED TO BE REMOVED.
9. EXISTING CONDUITS AND RACK TO BE REMOVED.
10. EXISTING TELEPHONE BOARD TO BE REMOVED.
11. EXISTING SERVICE ENTRANCE DISCONNECT AND METERS TO BE REMOVED.
12. EXISTING TELEPHONE/CABLE DEMARK FOR BUILDING TO REMAIN.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NORTH

A DEMO – ELECTRICAL POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"

TWG
THE WARREN GROUP ARCHITECTS, INC.
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REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

DE1.02

ELECTRICAL POWER FLOOR PLAN - DEMO

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
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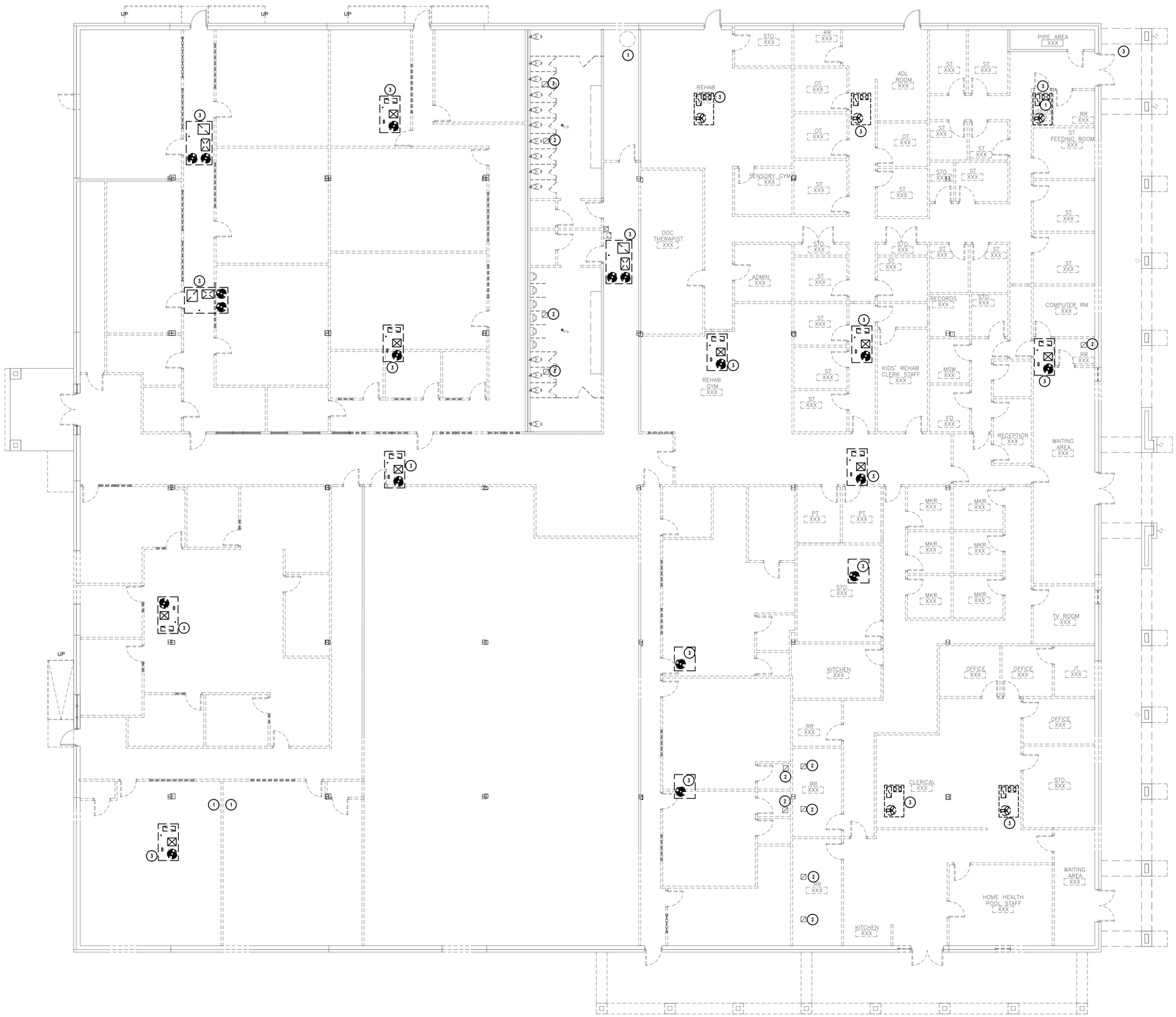
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748



NORTH

A DEMO – ELECTRICAL POWER FLOOR PLAN

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

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F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT–APPROVED PATCHING MATERIALS.

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J. CONDUITS IN EXISTING WALLS MAY REMAIN. REMOVE CONDUCTORS AND CUT OF AT CLOSEST ACCESSIBLE POINT ABOVE CEILING.

DEMOLITION KEY NOTES:

1. EXISTING WATER HEATER AND ASSOCIATED ELECTRICAL TO BE REMOVED.
2. EXISTING EXHAUST FAN AND ASSOCIATED ELECTRICAL TO BE REMOVED.
3. EXISTING ROOF TOP UNIT AND ASSOCIATED ELECTRICAL TO BE REMOVED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

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REVISION	DATE	APPROVED BY	DESCRIPTION
1			

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER

05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

DE1.03

DEMO - ELECTRICAL POWER FLOOR PLAN

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
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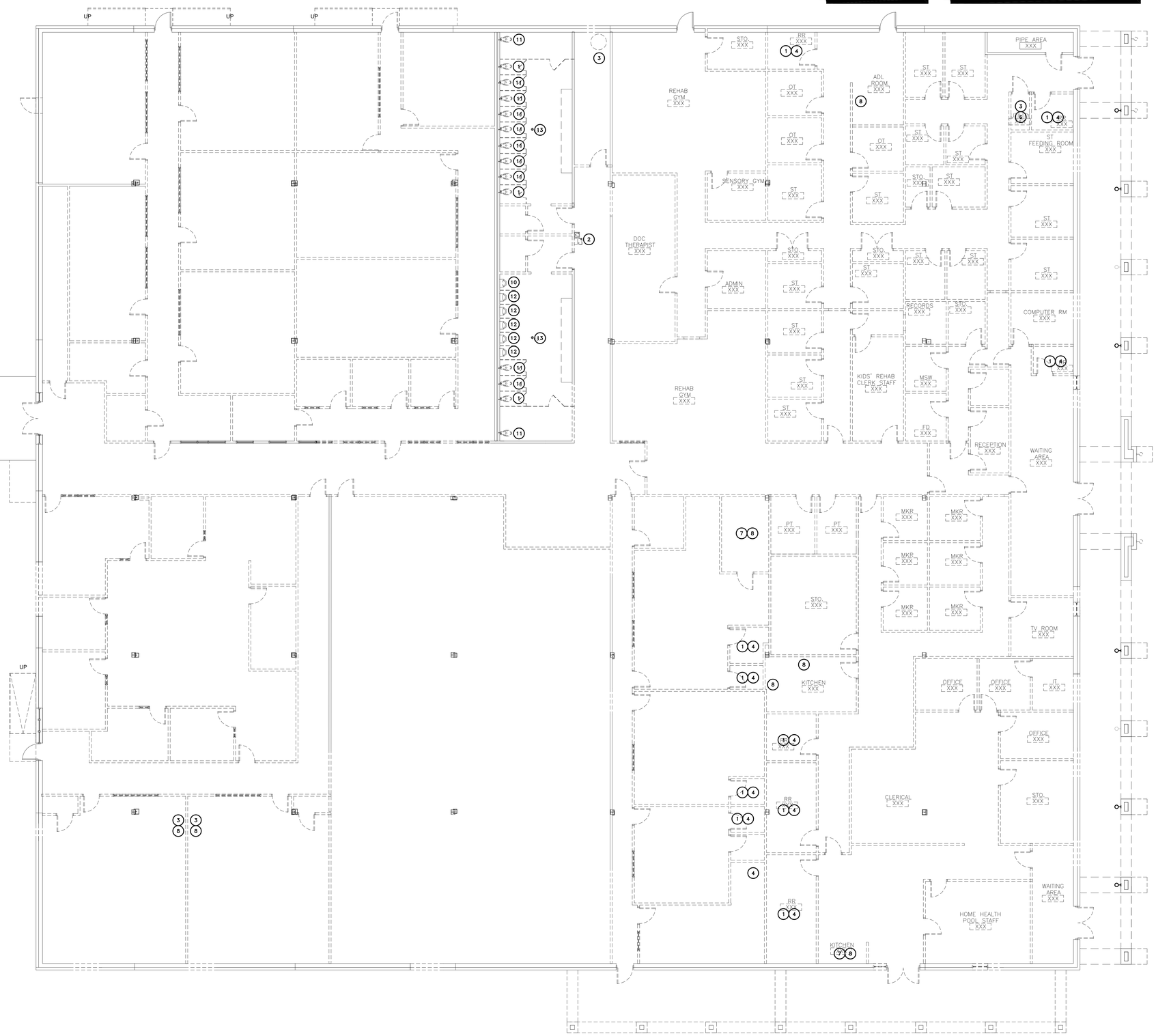
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

IT IS THE INTENT OF THE PLANS TO RE-USE EXISTING PLUMBING SYSTEMS WHICH ARE IN PLACE (SEWER DISTRIBUTION) MAIN LINES SHALL REMAIN IN PLACE FOR RECONNECTION ONTO NEW FIXTURES. REFER TO PLUMBING PLAN.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



GENERAL DEMOLITION NOTES:

A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

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C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PLUMBING DEMOLITION KEY NOTES:

1. DEMOLISH EXISTING WATER CLOSET COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
2. DEMOLISH EXISTING DRINKING FOUNTAIN COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
3. DEMOLISH EXISTING WATER HEATER. DISCONNECT AND REMOVE WATER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL CARRIER SYSTEMS. CAP OFF WATER LINES ABOVE CEILING. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
4. DEMOLISH EXISTING LAVATORY COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL CARRIER SYSTEMS. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
6. DEMOLISH EXISTING SERVICE SINK COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL CARRIER SYSTEMS. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
7. DEMOLISH EXISTING FLOOR DRAIN COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
8. DEMOLISH EXISTING SINK COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
9. DEMOLISH APPROXIMATE LOCATION OF EXISTING WATER HEATER ABOVE CEILING COMPLETE. DISCONNECT AND REMOVE WATER, AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF SEWER LINES. PATCH AND REPAIR WALL, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
10. DEMOLISH EXISTING URINAL COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF PLUMBING LINES IN ATTIC OR UNDER FINISH FLOOR ELEVATION. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
11. REMOVE EXISTING WATER CLOSET. EXISTING SEWER SERVICE SHALL REMAIN FOR RE-USE.
12. REMOVE EXISTING URINAL. EXISTING SEWER/VENT/WATER SERVICE SHALL REMAIN FOR RE-USE.
13. REMOVE EXISTING FLOOR DRAIN. EXISTING SEWER SERVICE SHALL REMAIN FOR RE-USE.

NORTH

A PLUMBING FLOOR PLAN – DEMO
SCALE: 1/8" = 1'-0"

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REVISION | DATE | APPROVED BY | DESCRIPTION

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

DP1.01

PLUMBING FLOOR PLAN - DEMO

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
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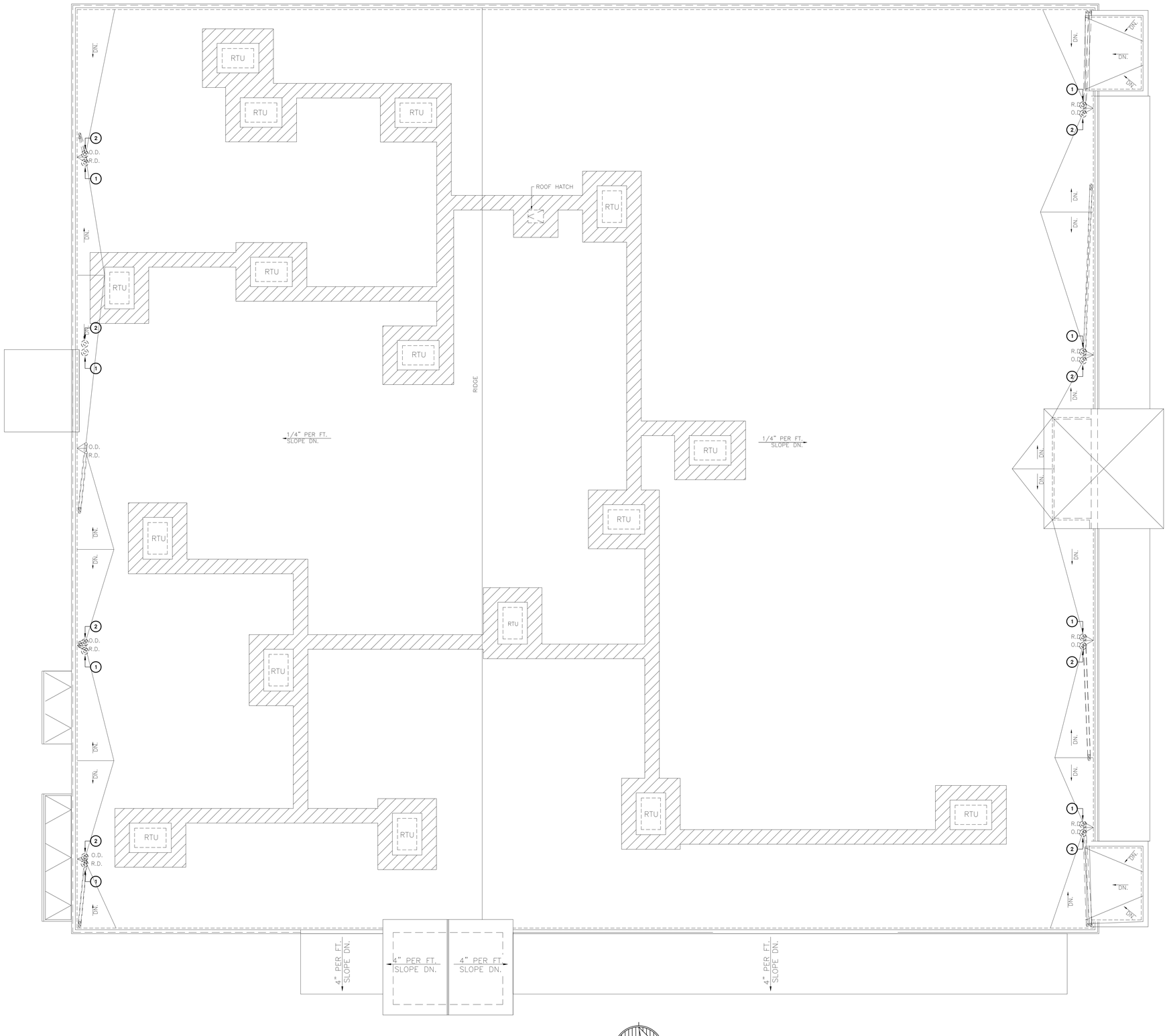
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



GENERAL DEMOLITION NOTES:

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PLUMBING DEMOLITION KEY NOTES:

1. DEMOLISH EXISTING ROOF DRAIN COMPLETE. DISCONNECT AND REMOVE ALL ASSOCIATED PIPING. NO LEAKING JOINTS SHALL REMAIN. CAP OFF STORM DRAIN LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
2. DEMOLISH EXISTING OVERFLOW DRAIN COMPLETE. DISCONNECT AND REMOVE ALL ASSOCIATED PIPING. NO LEAKING JOINTS SHALL REMAIN. CAP OFF STORM DRAIN LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.

NORTH

A PLUMBING ROOF PLAN – DEMO
SCALE: 1/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
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TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
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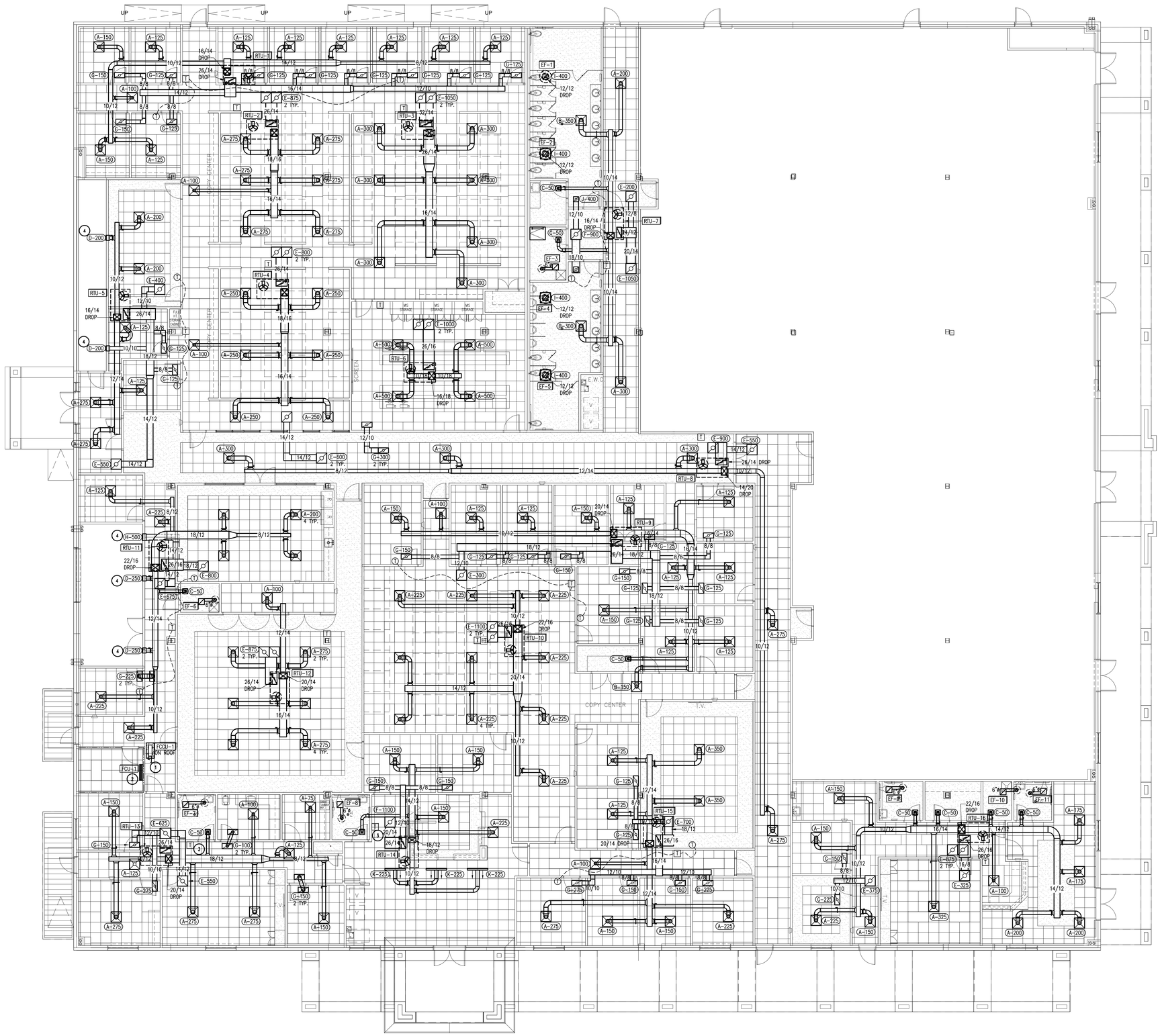
DP1.02

PLUMBING
ROOF PLAN - DEMO

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748



GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS FROM MECHANICAL EQUIPMENT TO DUCTS. VERIFY EQUIPMENT OUTLET/INLET SIZE WITH SCHEDULE.

C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

D. CONCEALED DUCTS SHALL BE SHEETMETAL SINGLE WALL TYPE WITH EXTERNAL WRAP INSULATION UNLESS OTHERWISE NOTED.

E. ALL EXPOSED (VISIBLE) DUCT SHALL BE SHEETMETAL SINGLE WALL INTERNALLY LINED TYPE AND SURFACED FOR PAINTING. COLOR SELECTION BY ARCHITECT. (NO EXPOSED FLEX DUCT SHALL BE ALLOWED).

F. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILINGS.

G. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORTS FOR ALL MECHANICAL EQUIPMENT SUSPENDED FROM STRUCTURE.

H. CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ROOFING WORK WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY.

I. LOCATE EXHAUST HOODS/FANS MINIMUM 10'-FEET FROM ANY OUTSIDE AIR INTAKE.

KEY NOTES:

1. PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS. PROVIDE INSULATION ON RETURN LINES. REFRIGERANT LINES LOCATED ON EXTERIOR SHALL BE PROVIDED WITH ALUMINUM JACKET. ROUTE REFRIGERANT LINES TO ASSOCIATED AIR HANDLING UNIT(S).
2. REFRIGERANT LINES, CONDENSATE LINE, CONTROL WIRING, AND ELECTRICAL SERVICE SERVING WALL MOUNTED UNIT SHALL BE CONCEALED IN WALL. REFER TO DETAIL.
3. INSTALL VANDAL PROOF METAL ENCLOSURE FOR THERMOSTAT. PROVIDE WITH LOCK AND KEY.
4. AIR DEVICE MOUNTED ON WALL SURFACE SHALL BE PAINTED TO MATCH WALL COLOR.

A MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
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REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

M1.01
MECHANICAL FLOOR PLAN

GENERAL MECHANICAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.
2. CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMODATE CEILINGS. CONTRACTOR SHALL COORDINATE INSTALLATION WORK WITH ALL OTHER TRADES. ALL DUCTWORK SHALL BE MODIFIED AS REQUIRED TO FIT AROUND BUILDING STRUCTURES.
3. CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS AS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS AND INDIVIDUAL DIFFUSER DAMPERS.
4. CONTRACTOR SHALL MOUNT ALL THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH ROOM FINISHES. PROVIDE ALL CONTROL VOLTAGE WIRING FOR THERMOSTAT INSTALLATION.
5. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING AIR DEVICES WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL CEILING PLANS. AIR DEVICES SHALL BE RELOCATED IF REQUIRED TO AVOID OBSTRUCTION WITH DUCTWORK AND LIGHT FIXTURES.
6. PROVIDE SMOKE DETECTORS AND SHUTDOWN CONTROLS ON AIR HANDLING UNITS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16.

GENERAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	KW	KILOWATTS
AHU	AIR HANDLING UNIT	L	LOUVER
ACCU	AIR COOLED CONDENSING UNIT	MAX	MAXIMUM
DB	DRY BULB	MIN	MINIMUM
EDH	ELECTRIC DUCT HEATER	NTS	NOT TO SCALE
EF	EXHAUST FAN	OBD	OPPOSED BLADE DAMPER
FCU	FAN COIL UNIT	S.P.	STATIC PRESSURE
FCCU	FAN COOLED CONDENSING UNIT	WB	WET BULB

NECK/BRANCH DUCT SIZE CHART

SUPPLY DUCT			RETURN DUCT		
NECK/BRANCH SIZE		CFM RANGE	NECK/BRANCH SIZE		CFM RANGE
6" DIAMETER	6/6 DUCT	0 – 100	6" DIAMETER	6/6 DUCT	0 – 75
8" DIAMETER	12/6 DUCT	101 – 225	8" DIAMETER	12/6 DUCT	76 – 150
10" DIAMETER	12/8 DUCT	226 – 400	10" DIAMETER	12/8 DUCT	151 – 275
12" DIAMETER	12/10 DUCT	401 – 675	12" DIAMETER	12/10 DUCT	276 – 475
14" DIAMETER	14/12 DUCT	676 – 1000	14" DIAMETER	14/12 DUCT	476 – 700
16" DIAMETER	18/12 DUCT	1001 – 1400	16" DIAMETER	18/12 DUCT	701 – 1000
18" DIAMETER	24/12 DUCT	1401 – 2000	18" DIAMETER	24/12 DUCT	1001 – 1300
20" DIAMETER	24/14 DUCT	2001 – 2500	20" DIAMETER	24/14 DUCT	1301 – 1800
22" DIAMETER	20/22 DUCT	2501 – 3200	22" DIAMETER	22/20 DUCT	1801 – 2300
24" DIAMETER	22/24 DUCT	3201 – 4200	24" DIAMETER	24/22 DUCT	2301 – 2800
			26" DIAMETER	24/24 DUCT	2801 – 3600
			28" DIAMETER	26/26 DUCT	3601 – 4200

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
T	TEMPERATURE SENSOR		EXHAUST AIR DUCT
	SUPPLY AIR DEVICE (SEE SCHEDULE)		RETURN AIR DUCT
	RETURN/TRANSFER AIR DEVICE (SEE SCHEDULE)		SUPPLY AIR DUCT
	EXHAUST FAN (SEE SCHEDULE)	X/X	DUCT INTERNAL DIMENSIONS (WIDTH/DEPTH)
	RECTANGULAR DUCT TRANSITION		ROUND BRANCH DUCT WITH MANUAL BALANCING DAMPER
	ROUND FLEX DUCT		ROOF TOP UNIT (SEE SCHEDULE)
T AVG.	AVERAGING TEMPERATURE SENSOR	T	THERMOSTAT

ROOF TOP UNIT SCHEDULE

ROOF TOP UNIT DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-9	RTU-10	RTU-11	RTU-12	RTU-13	RTU-14	RTU-15	RTU-16
SUPPLY CFM	1400	1750	2100	1600	1400	2000	1250	1450	1750	2250	2150	1750	1600	1400	1850	2050
OUTSIDE AIR CFM	200	250	300	225	200	300	175	200	250	325	300	250	250	200	275	300
EXTERNAL S.P. ("W.G.)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
MOTOR HP.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL CAPACITY (MBH)	43.74	54.15	69.75	54.15	43.74	69.75	43.74	43.74	54.15	69.75	69.75	54.15	54.15	43.74	54.15	69.75
SENSIBLE CAPACITY (MBH)	31.08	40.13	53.59	40.13	31.08	53.59	31.08	31.08	40.13	53.59	53.59	40.13	40.13	31.08	40.13	53.59
ENTERING AIR (DB/WB)°F	78/65	79/65	78/65	79/65	78/65	78/65	78/65	78/65	79/65	78/65	78/65	79/65	79/65	78/65	79/65	78/65
LEAVING AIR (DB/WB)°F	57.4/54.7	57.1/54.9	54.4/53.9	57.1/54.9	57.4/54.7	54.4/53.9	57.4/54.7	57.4/54.7	57.1/54.9	54.4/53.9	54.4/53.9	57.1/54.9	57.1/54.9	57.4/54.7	57.1/54.9	54.4/53.9
CONDENSER AIR (DB)°F	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	12.0	12.0	15.8	12.0	12.0	15.8	12.0	12.0	12.0	15.8	15.8	12.0	12.0	12.0	12.0	15.8
STAGES	1	1	2	1	1	2	1	1	1	2	2	1	1	1	1	2
VOLTAGE/PHASE	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø	208/3ø
MCA/MOCP	49/50	53/60	64/70	53/60	49/50	64/70	49/50	49/50	53/60	64/70	64/70	53/60	53/60	49/50	53/60	64/70
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL	50KC-005	50KC-006	50TC-007	50KC-006	50KC-005	50TC-007	50KC-005	50KC-005	50KC-006	50TC-007	50TC-007	50KC-006	50KC-006	50KC-005	50KC-006	50TC-007
UNIT WEIGHT (LBS)	776	829	879	829	776	879	776	776	829	879	879	829	829	776	829	879
EFFICIENCY EER (SEER)	(14.0)	(14.1)	11.2	(14.1)	(14.0)	11.2	(14.0)	(14.0)	(14.1)	11.2	11.2	(14.1)	(14.1)	(14.0)	(14.1)	11.2
REMARKS	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

REMARKS
1. PROVIDE PROGRAMMABLE THERMOSTAT WITH HUMIDITY CONTROL AND AVERAGING SENSOR(S) WHERE SHOWN.
2. PROVIDE SINGLE POINT POWER.
3. PROVIDE WITH ROOF CURB.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. CONDENSER COILS SHALL BE CORROSION RESISTANT.
6. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
7. PROVIDE WITH HOT-GAS REHEAT AND HUMIDITY CONTROL.
8. PROVIDE WITH CONDENSER COIL HAIL GUARD.

FANCOIL SCHEDULE

AIR HANDLING UNIT DESIGNATION	FCU-1	
INDOOR UNIT TYPE	WALL	
SUPPLY CFM	643	
TOTAL COOLING CAPACITY (MBH)	21.5	
HEATING CAPACITY (MBH)	24	
ENTERING AIR (DB/WB)°F	80/67	
VOLTAGE/PHASE	208/1ø	
MCA/MOCP	N/A	
MANUFACTURER	DAIKIN	
MODEL	FTXS24LVJU	
UNIT WEIGHT (LBS)	31	
CONDENSING UNIT DESIGNATION	FCCU-1	
CONDENSER AIR (CLG°F/HTG°F)	95/47	
REFRIGERANT	R-410A	
COOLING OPER. RANGE	14°F – 115°F	
HEATING OPER. RANGE	5°F – 64°F	
VOLTAGE/PHASE	208/1ø	
MCA/MOCP	17.5/20	
MANUFACTURER	DAIKIN	
MODEL	RXS24LVJU	
UNIT WEIGHT (LBS)	159	
REMARKS	1,2,3,4,5,6,7	

REMARKS
1. PROVIDE WITH WALL MOUNTED THERMOSTAT.
2. PROVIDE INDOOR UNIT WITH WALL BRACKET.
3. PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS.
4. PROVIDE WITH ROOF CURB FOR CONDENSER UNIT MOUNTING.
5. SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED ON DAIKIN EQUIPMENT
6. PROVIDE CONDENSER COIL CORROSION PROTECTION.
7. PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO CONDENSING UNIT AND WIRE TO FANCOIL.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8	EF-9	EF-10	EF-11
EXHAUST CFM	400	400	100	400	400	100	100	100	100	100	100
EXTERNAL S.P. ("W.G.)	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
MOTOR HP.	1/8	1/8	41 WATTS	1/8	1/8	41 WATTS	41 WATTS	41 WATTS	41 WATTS	41 WATTS	41 WATTS
MOTOR RPM	1268	1268	965	1268	1268	965	965	965	965	965	965
DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MOUNTING LOCATION	ROOF	ROOF	CEILING	ROOF	ROOF	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING
SONES	7.9	7.9	2.0	7.9	7.9	2.0	2.0	2.0	2.0	2.0	2.0
VOLTAGE/PHASE	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø	120/1ø
MANUFACTURER	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
MODEL	100C150H	100C150H	GC-148	100C150H	100C150H	GC-148	GC-148	GC-148	GC-148	GC-148	GC-148
UNIT WEIGHT (LBS)	23	23	12	23	23	12	12	12	12	12	12
REMARKS	1,2,3,4,6	1,2,3,4,6	1,2,3,4,5	1,2,3,4,6	1,2,3,4,6	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5

REMARKS
1. PROVIDE WITH INTERNAL DISCONNECT.
2. PROVIDE WITH BACK DRAFT DAMPER.
3. PROVIDE WITH FAN SPEED CONTROL.
4. SWITCH WITH LIGHTS.
5. PROVIDE WITH ROOF CAP AND CURB.
6. PROVIDE WITH ROOF CURB.

AIR DEVICE SCHEDULE

DESIGNATION	SIZE	MOUNTING	THROW	NECK TYPE	CONSTRUCTION	OBD	MAX NC	FINSH	MANUFACTURER	MODEL
A	24 X 24	LAY-IN	4-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	OMNI-AA
B	24 X 24	SURFACE	4-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	OMNI-AA
C	12 X 12	SURFACE	4-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	OMNI-AA
D	12 X 8	SURFACE	–	–	ALUMINUM	YES	30	#26 WHITE	TITUS	300FS
E	24 X 24	LAY-IN	–	–	ALUMINUM	NO	30	#26 WHITE	TITUS	50F
F	24 X 24	SURFACE	–	–	ALUMINUM	NO	30	#26 WHITE	TITUS	50F
G	24 X 12	LAY-IN	–	–	ALUMINUM	NO	30	#26 WHITE	TITUS	50F
H	16 X 8	SURFACE	–	–	ALUMINUM	NO	30	#26 WHITE	TITUS	350FL
I	12 X 12	SURFACE	–	–	ALUMINUM	YES	30	#26 WHITE	TITUS	355ZFS
J	12 X 12	SURFACE	–	–	ALUMINUM	NO	30	#26 WHITE	TITUS	50F
K	48 X 4	LAY-IN	2-SLOT	–	ALUMINUM	YES	30	#26 WHITE	TITUS	TBDI-30

LEGEND: CFM / (A-200) / DESIGNATION

NOTES:
1. SIZE SHALL INCLUDE MODULE WITH FULL FACE.
2. COORDINATE AIR DEVICE TYPE WITH ARCHITECTURAL CEILINGS.
3. NECK SIZE PER NECK/BRANCH DUCT SIZE CHART.

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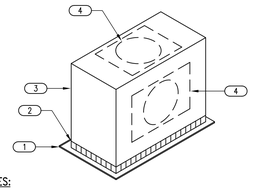
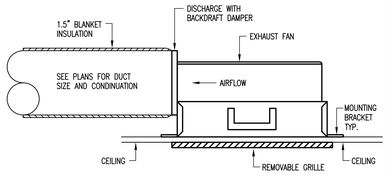


KEY NOTES:

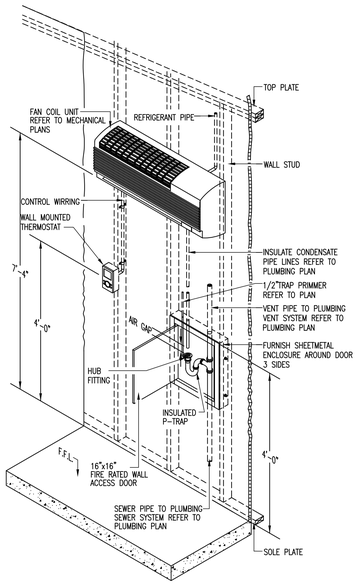
1. CEILING MOUNTED RETURN/EXHAUST AIR GRILLE. SEE PLANS AND SCHEDULE.
2. SECURE INTERNALLY LINED PLENUM TO AIR DEVICE.
3. PLENUM HEIGHT SHALL BE 12–INCHES MINIMUM WITH 1.5" INTERNAL LINING.
4. PROVIDE ROUND/SQUARE TAP CONNECTION AS REQUIRED.

A RETURN/EXHAUST AIR DEVICE PLENUM
SCALE: NTS

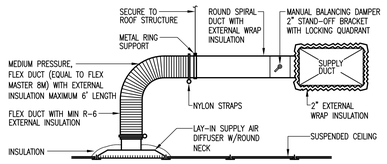


NOTE: INSTALL PER MANUFACTURER RECOMMENDATIONS

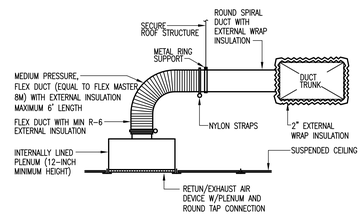
B CEILING MOUNTED EXHAUST FAN
NO SCALE



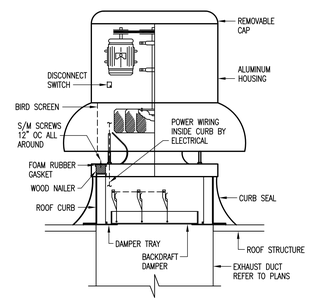
E FAN COIL INSTALLATION DETAIL
SCALE: N.T.S.



C SUPPLY AIR DIFFUSER
SCALE: N.T.S.



D RETURN/EXHAUST AIR DEVICE
SCALE: N.T.S.



F ROOF MOUNTED EXHAUST FAN
SCALE: NTS

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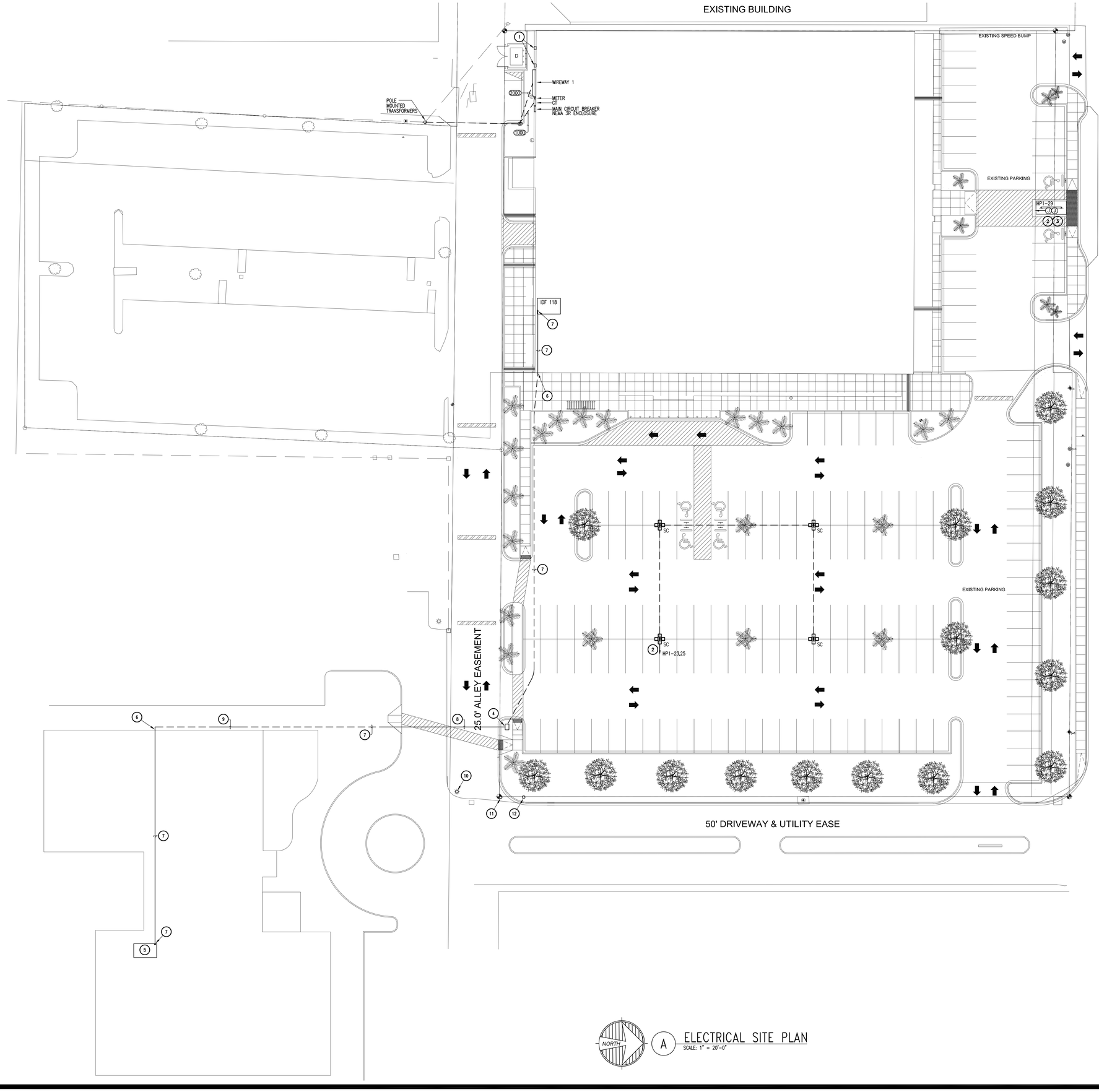

GENERAL NOTES:

A. ALL SITE LIGHTING CIRCUITS CONSIST OF 2#10, #10G CONDUCTOR AND 3/4"C, UNO.

B. ALL EXTERIOR CONDUIT RUNS SHALL BE KEPT TO MINIMUM FOR AESTHETIC PURPOSES. CONDUITS SHALL BE RUN WITHIN BUILDING SPACE.

C. REFER TO DETAIL C/SHEET E2.01 FOR ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE.

KEY NOTES:

1. EXISTING TELEPHONE/CABLE DEMARK FOR BUILDING.
2. LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE.
3. FURNISH AND INSTALL WEATHERPROOF J-BOX FOR CONNECTION OF SIGN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. ROUTE 2#10, #10G, 3/4"C.
4. FURNISH AND INSTALL FIBERGLASS/POLYMER CONCRETE UNDERGROUND BOX ASSEMBLY WITH COVER LABELED "COMMUNICATIONS" WITH TIER 8 RATING EQUAL TO HIGHLINE #CVA363654SE. UNDERGROUND BOX ASSEMBLY SHALL MEASURE 36" X 36" X 54" DEEP.
5. APPROXIMATE LOCATION OF MDF ROOM. CONDUIT SHALL BE STUBBED INTO ACCESSIBLE CEILING SPACE.
6. CONDUIT SHALL RISE AND FURNISH LB(ELBOW) FITTING INTO BUILDING ABOVE ACCESSIBLE CEILING.
7. FURNISH AND INSTALL TWO(2)-4" CONDUITS WITH PULLSTRING FOR ROUTING OF DATA AND SPARE FROM MDF ROOM TO IDF ROOM.
8. ELECTRICAL CONTRACTOR SHALL BORE UNDER EXISTING STREET.
9. ELECTRICAL CONTRACTOR SHALL BORE UNDER EXISTING SIDE WALK.
10. EXISTING LIGHT POLE TO BE REMOVED.
11. EXISTING UTILITY POLE TO BE REMOVED AND RELOCATED.
12. NEW LOCATION OF EXISTING UTILITY POLE. COORDINATE EXACT LOCATION UTILITY COMPANY.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NORTH

A ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

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ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956 . 994 . 1900
twgarch.com

REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ JR.
97393
LICENSED PROFESSIONAL ENGINEER
05.17.2019

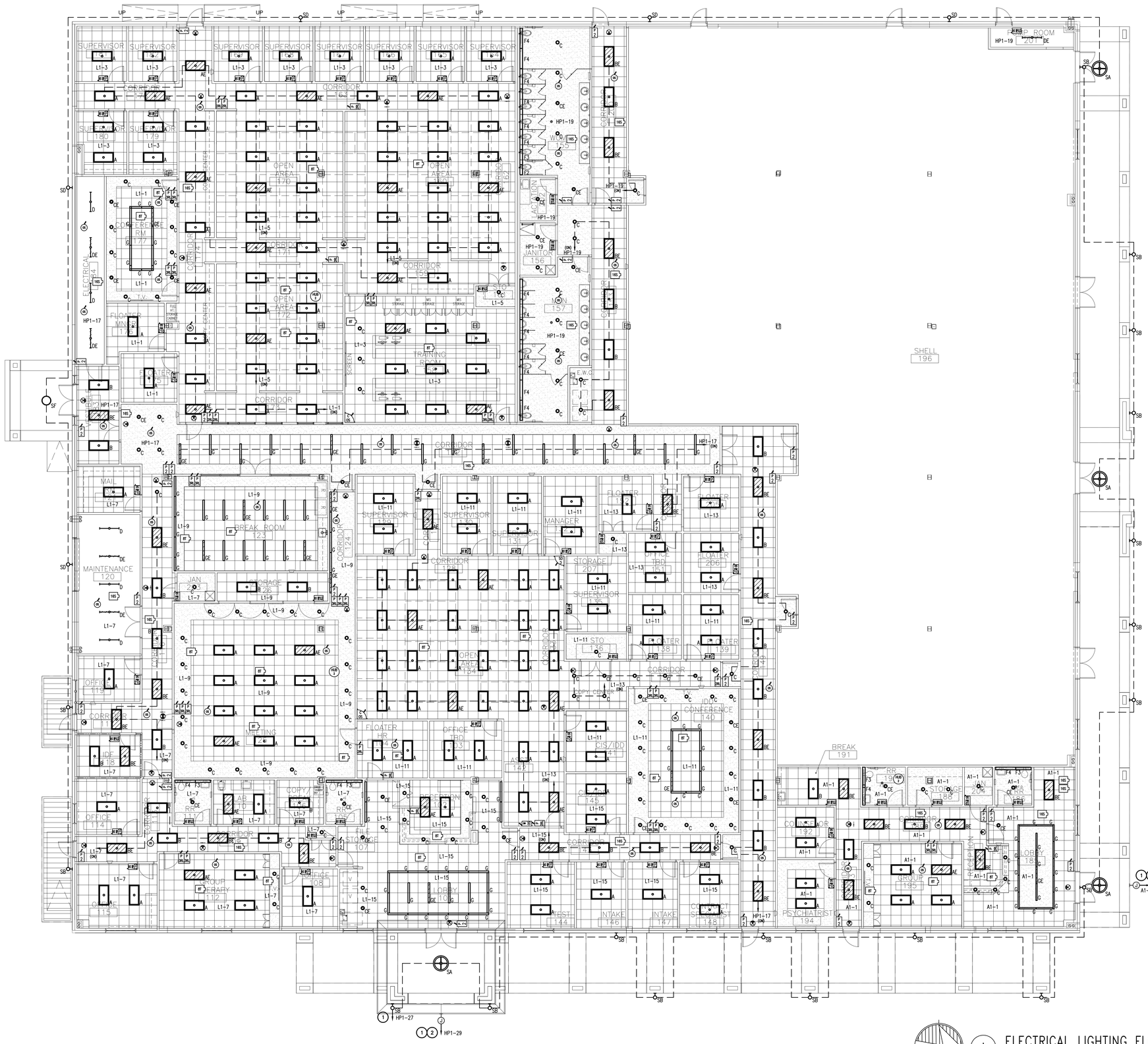
PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

E1.00
ELECTRICAL SITE PLAN



GENERAL NOTES:

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE RCP.

B. EXIT LIGHTS ARE TYPE X, UNO. CONNECT EXIT LIGHT FIXTURES TO UN-SWITCHED CIRCUIT SERVING SPACE IN WHICH FIXTURE IS INSTALLED. INSTALL CEILING MOUNTED FIXTURES, UNO.

C. COORDINATE PLACEMENT OF FIXTURES WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.

D. CIRCUIT EMERGENCY FIXTURES IN ROOMS TO PERMIT ALL THE LAMPS TO BE SWITCHED OFF, LEAVING THE BATTERY IN STAND BY CONDITION, SO THE EMERGENCY BATTERY UNIT WILL OPERATE ONE LAMP WHEN THE NORMAL POWER IS INTERRUPTED. REQUEST THE REQUIRED WIRING DIAGRAM FROM EQUIPMENT MANUFACTURER. ALL EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE IN ADDITION TO THE SWITCHED LEG. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE ONLY.

E. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.

F. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

G. FIXTURES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN SPACE.

KEY NOTES:

1. LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE.

2. FURNISH AND INSTALL WEATHERPROOF J-BOX FOR CONNECTION OF SIGNAGE. STUB IN 3/4"C FROM J-BOX INTO ATTIC SPACE. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

LEGEND(LUTRON)

MS	MS-OPS6M2-DV-WH
MS	MS-Z101-WH
PJ2	PJ2-2B-GWH-L01 (CW-1-WH)
PJ2	PJ2-2BRL-GWH-L01 (CW-1-WH)
PJ2	PJ2-3BRL-GWH-L01 (CW-1-WH)
LRF2	LRF2-OCR2B-P
LRF2	LRF2-OKLB-P
LRF2	LRF2-OWLB-P
HJS	HJS-2-FM
16S	RMJS-16R-DV-B
8T	RMJS-8T-DV-B

NORTH

A ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'-0"

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
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TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

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871 OLD ALICE ROAD
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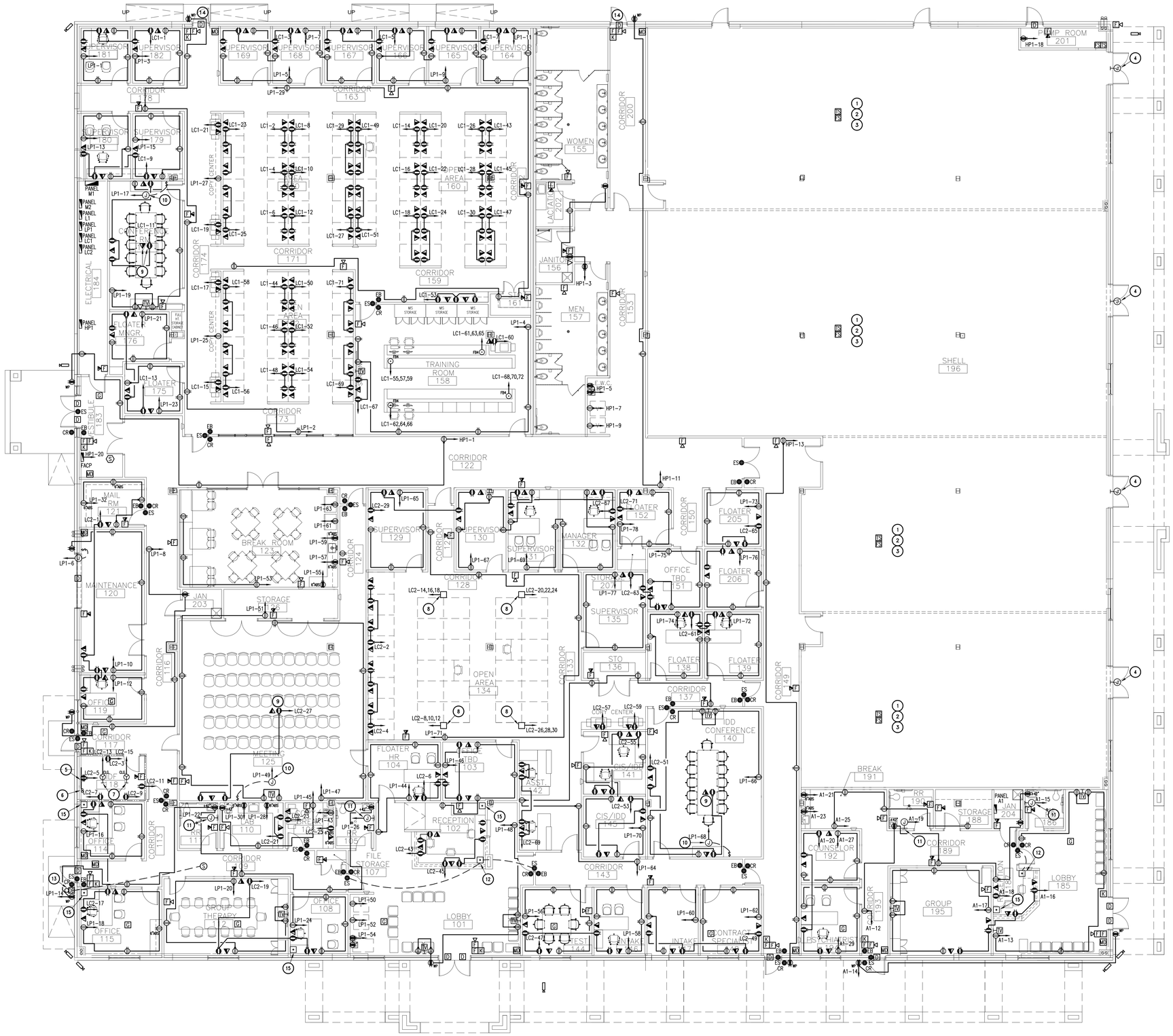
E1.01

ELECTRICAL LIGHTING FLOOR PLAN



A ELECTRICAL POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.

B. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

C. COORDINATE EXACT LOCATION OF T.V. RECEPTACLE WITH OWNER, PRIOR TO ROUGH IN.

D. ALL EXTERIOR CONDUIT RUNS SHALL BE KEPT TO MINIMUM FOR AESTHETIC PURPOSES. CONDUITS SHALL BE RUN WITHIN BUILDING SPACE.

KEY NOTES:

1. ROUTE 2-2" CONDUIT WITH PULL STRING FOR TELEPHONE CABLE CONNECTION FROM EACH TENANT SPACE TO TELEPHONE DEMARK. STUB CONDUITS INTO EACH TENANT SPACE ABOVE ACCESSIBLE CEILING. REFER TO KEY NOTE #1, SHEET E0 ELECTRICAL SITE PLAN.
2. FURNISH AND INSTALL WEATHERPROOF J-BOX WITH ONE 2" CONDUIT FROM TENANT SPACE TO ABOVE ROOF. FOR CONNECTION OF SATELLITE/CABLE LABEL AS "CABLE CONDUIT".
3. ROUTE 1-2" CONDUIT WITH PULL STRING FROM WIREWAY TO TENANT SPACE.
4. FURNISH AND INSTALL WEATHER PROOF J-BOX FOR CONNECTION OF SIGN.
5. PROVIDE AND INSTALL 4' X 4' X 3/4" PLYWOOD BACKBOARD FOR MOUNTING OF COMMUNICATIONS EQUIPMENT. PROVIDE A FLOOR MOUNTED 3/4" X 4' GROUND BAR FOR TELEPHONE SERVICE. EXTEND #6 AWG FROM GROUND BAR TO MAIN GROUND BUS OF PANEL M1.
6. FURNISH AND INSTALL 2-4"C FOR ROUTING OF TELEPHONE/CABLE. REFER TO SITE PLAN SHEET E1.00 FOR CONTINUATION.
7. FURNISH AND INSTALL L5-30R RECEPTACLE ON CEILING PER VENDOR SPECIFICATIONS. ROUTE 2#10, #10G, 1/2"C.
8. ROUTE 3#12, #12G, #12IG IN 3/4"C FOR CONNECTION OF POWER POLE FURNISHED BY FURNITURE MANUFACTURER FOR CONNECTION TO PRE-WIRED MODULAR FURNITURE. COORDINATE EXACT LOCATION WITH FURNITURE MANUFACTURER PRIOR TO ROUGH-IN. FEEDERS SHALL HAVE 8' WHIPS AT EACH CONNECTION END.
9. FURNISH AND INSTALL RECEPTACLE AND SINGLE GANG BOX FOR CABLING. AT CEILING LOCATION FOR CONNECTION OF PROJECTOR. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
10. FOR MOTORIZED PROJECTION SCREEN. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. ROUTE 3 WIRE CONTROL TO SWITCH FURNISHED WITH PROJECTION SCREEN. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
11. FURNISH AND INSTALL J-BOX FOR CONNECTION OF HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. ROUTE 2#10, #10G, 1/2"C.
12. FURNISH AND INSTALL PUSH BUTTON RELEASE/ BUZZ IN FOR DOOR.
13. FURNISH AND INSTALL PUSH BUTTON DOOR BELL FOR DOOR.
14. FURNISH AND INSTALL PANIC DEVICE FOR DOOR.
15. FURNISH AND INSTALL PANIC BUTTON. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

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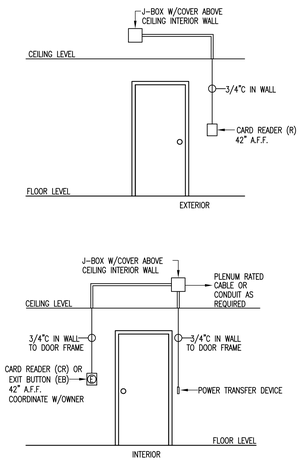
LEGEND

D	DOOR CONTACT
MD	MOTION DETECTOR
G	GLASS BREAK
CR	CARD READER
ES	ELECTRIC STRIKE
EB	EGRESS BUTTON
ML	MAGLOCK
KP	ALARM KEYPAD
	ACCESS CONTROL PANEL



B ELECTRICAL DOOR DETAIL
SCALE: N.T.S.

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E1.02

ELECTRICAL POWER FLOOR PLAN

GENERAL NOTES:

A. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.

B. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

C. ALL SITE LIGHTING CIRCUITS CONSIST OF 2#10, #10G CONDUCTOR AND 3/4"C, UNO.

D. ALL EXTERIOR CONDUIT RUNS SHALL BE KEPT TO MINIMUM FOR AESTHETIC PURPOSES. CONDUITS SHALL BE RUN WITHIN BUILDING SPACE.

E. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE. REFER TO DETAIL A/SHEET E3.01.

KEY NOTES:

1. CABLE TRAY.
2. EXHAUST FAN SHALL BE SWITCHED WITH LIGHT FIXTURE.

FIELD VERIFY ALL CONDITIONS

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NORTH

A ELECTRICAL – PLUMBING AND MECHANICAL EQUIPMENT LOCATION PLAN

SCALE: 1/8" = 1'-0"

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E1.03

ELEC - PLUMBING/MECH EQUIP LOC FLOOR PLAN

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TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

ELECTRICAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	2'x4' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.
	POLE MOUNTED FIXTURE	SEE FIX. SCH.
	2'x2' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	2'x2' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.
	FLUORESCENT STRIP LIGHT	SEE FIX. SCH.
	1'X4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	TRACK LIGHT	SEE FIX. SCH.
	INCANDESCENT, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE CEILING MTD.	SEE FIX. SCH.
	INCANDESCENT, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD.	SEE FIX. SCH.
	INCANDESCENT, FLUORESCENT, OR HID FIXTURE ON EMERGENCY CCT. CLG. OR WALL MTD.	SEE FIX. SCH.
	EXIT LIGHT, CEILING OR WALL MOUNTED – SHADING INDICATING SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED	9" BFC
$	WALL SWITCH SPST, 20A,120/277V	48" AFF
$ 2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V	48" AFF
$ 3	3-WAY WALL SWITCH, 20A,120/277V	48" AFF
$ 4	4-WAY WALL SWITCH, 20A,120/277V	48" AFF
$ D	WALL DIMMER SWITCH	48" AFF
$ K	KEY OPERATED WALL SWITCH	48" AFF
$ P	WALL SWITCH WITH PILOT LIGHT	48" AFF
	SINGLE RECEPTACLE – 20A/125V/2P/3W/G NEMA 5-20R	15" AFF
	DUPLEX RECEPTACLE – 20A/125V/2P/3W/G NEMA 5-20R	15" AFF
	DUPLEX RCPT. SPLIT-WIRED – 20A/125V/2P/3W/G NEMA 5-20R	15" AFF
	DUPLEX RCPT. GFI – 20A/125V/2P/3W/G NEMA 5-20R	15" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	15" AFF
	ISOLATED GROUND DUPLEX RECEPTACLE – 20A/125V NEMA 5-20R	15" AFF
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	15" AFF
	FLOOR MOUNTED DUPLEX RECEPTACLE – FLUSH MOUNTED UNO	–
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	15" AFF
J	JUNCTION BOX – SIZE & MOUNTING AS REQUIRED	AS REQD.
	MULTIOUTLET ASSEMBLY – LENGTH AND OUTLET SPACING AS INDICATED	AS NOTED
	TELEPHONE/DATA OUTLET. WALL MOUNTED – STUB 1" C. ABOVE CEILING FROM OUTLET BOX	15" AFF
	FLOOR MOUNTED DATA/TELEPHONE OUTLET – FLUSH MOUNTED UNO	–
TV	TELEVISION OUTLET. CLG. OR WALL MOUNTED – STUB 3/4" C. ABOVE CEILING FROM OUTLET BOX	15" AFF
	PUSHBUTTON	48" AFF
	CLOCK HANGER OUTLET 15A/125V/2P/3W/G RECEPTACLE	96" AFF
WAP	WIRELESS ACCESS PIONT	–
F	FIRE ALARM PULL STATION	48" AFF
F	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF
F	FIRE ALARM AUDIBLE SIGNAL	80" AFF
F	FIRE ALARM VISUAL SIGNAL	80" AFF
S	SPEAKER VOICE EVAC SYSTEM	80" AFF
EVAC	VOICE EVAC SYSTEM	–

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
FS	FIRE ALARM SPRINKLER FLOW SWITCH	–
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	–
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	–
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	–
S S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
H H	HEAT DETECTOR CEILING OR WALL MOUNTED	–
D	DUCT SMOKE DETECTOR	–
	SMOKE DOOR HOLDER	–
FACP	FIRE ALARM CONTROL PANEL	–
FAAP	FIRE ALARM ANNUNCIATOR PANEL	–
S S	P.A. SPEAKER, CEILING OR WALL MOUNTED	9" BFC
M	MICROPHONE OUTLET	–
30/–/3	DISCONNECT SWITCH – 30/–/3 INDICATES 30A, 3–POLE, NONFUSED; 30/30/3 INDICATES 30A, 3–POLE, 30A FUSE	AS REQD.
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH – THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.
30/30/3	DISCONNECT SWITCH – 30/30/3 INDICATES 30A, 3–POLE, 30A FUSE	AS REQD.
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.
CB	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.
	MOTOR	–
	PANELBOARD	–
	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 1/2"C. 20A/1P CB UNO)	–
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	–
X/X/X	MULTI–POLE DEVICE CIRCUIT NUMBERS	–
MD MD	MOTION DETECTOR, CEILING OR WALL MOUNTED	–
DH	DOOR HOLDER– REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOOR ROUGH–IN REQUIREMENTS.	–
C	CHIME/STROBE	80"AFF
B	BELL/BUZZ	48"AFF
G	GLASS BREAK MOTION SENSOR	–
D	DOOR CONTACTS	–
K	KEYPAD	48"AFF
	CAMERA	–
CR	CARD READER – REFER TO DISCRIPTION IN DOOR HARDWARE SPECIFICATION SECTION.	48"AFF

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
BFC	BELOW FINISHED CEILING	NO (N.O.)	NORMALLY OPEN
C	CONDUIT	RCPT(S)	RECEPTACLE(S)
CB	CIRCUIT BREAKER	PNL	PANEL
EC	EMPTY CONDUIT	SO (S.O.)	SPACE ONLY
EX	EXISTING	SP	SPARE
F	FUSE	ST (S.T.)	SHUNT TRIP
G	GROUND (EQUIPMENT)	SW	SWITCH
GFI	GROUND FAULT INTERRUPTER	UF	UNDERFLOOR
IC	INTERRUPTING CAPACITY	UG	UNDERGROUND
IG	ISOLATED GROUND	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
MTD	MOUNT OR MOUNTED	WG	WIRE GUARD
NC (N.C.)	NORMALLY CLOSED	WP	WEATHERPROOF
NF	NONFUSED	XFMR	TRANSFORMER
NIC	NOT IN CONTRACT		

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE;
   15" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

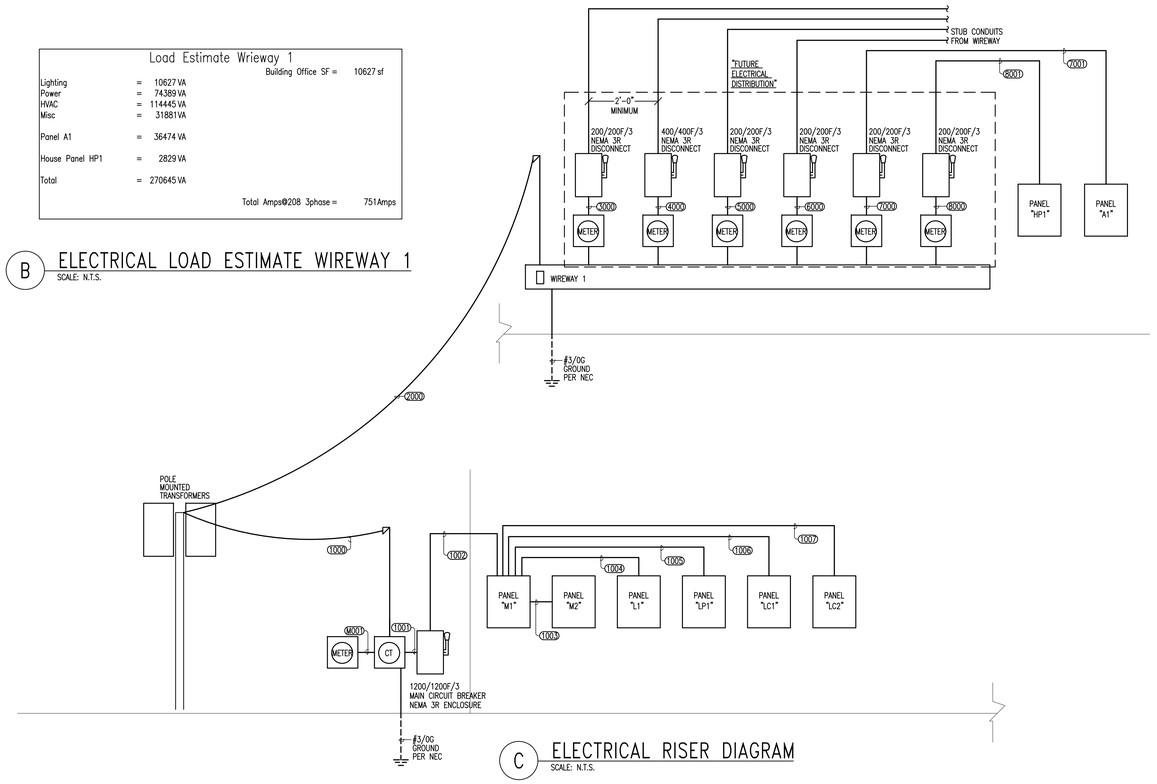
A ELECTRICAL LEGEND
SCALE: N.T.S.

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

Load Estimate Wireway 1			Building Office SF =	10627 sf
Lighting	=	10627 VA		
Power	=	74389 VA		
HVAC	=	114445 VA		
Misc	=	31881 VA		
Panel A1	=	36474 VA		
House Panel HP1	=	2829 VA		
Total	=	270645 VA		
			Total Amps@208 3phase =	751Amps

B ELECTRICAL LOAD ESTIMATE WIREWAY 1
SCALE: N.T.S.



C ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

FLOOR BOX SCHEDULE								
MARK	MANUFACTURE	#GANGS/ OPENING DIMENSIONS	FLOOR BOX #	KNOCK OUTS	PLATES #	COVER MODEL #	COVER FINISH**	DESCRIPTION
FB4	HUBBELL	4 GANG / 8" ROUND	CFB4G30RCR	1/2" TO 2"	(3) FBMPREC (DECORA) (1)FBMP8KS (KEYSTONE)	CFBS18RDCVR		SLAB ON GRADE – 4 GANG FLOOR BOX WITH (3) DECORA PLATES FOR POWER/AV/ETC., (1) SIX OPENING KEYSTONE PLATE FOR DATA AND 9.5" ROUND 0.15" THICK CAST ALUMINUM COVER PLATE.
** CONTRACTOR SHALL VERIFY ALL FINISHES WITH ARCHITECT PRIOR TO ORDERING.								

D ELECTRICAL FLOOR BOX SCHEDULE
SCALE: N.T.S.

FEEDER / BRANCH CIRCUIT SCHEDULE					
		PHASE	NEUTRAL	GROUND	
MARK	RACEWAY	CONDUCTORS	CONDUCTORS	CONDUCTORS	REMARKS
M001	1–1/4"	----	----	----	----
1000	4"	3–600KCMIL	1–600KCMIL	1#3/0	THREE PARALLEL FEEDERS REQUIRED
1001	4"	3–600KCMIL	1–600KCMIL	1#3/0	THREE PARALLEL FEEDERS REQUIRED
1002	4"	3–600KCMIL	1–600KCMIL	1#3/0	THREE PARALLEL FEEDERS REQUIRED
1003	2"	3#3/0	1#3/0	1#3	TWO PARALLEL FEEDERS REQUIRED
1004	1 1/2"	3#3	1#3	1#8	----
1005	2 1/2"	3#4/0	1#4/0	1#4	----
1006	1 1/2"	3#2	1#3/0	1#8	----
1007	1 1/2"	3#2	1#3/0	1#8	----
2000	4"	3–600KCMIL	1–600KCMIL	1#1/0	TWO PARALLEL FEEDERS REQUIRED
3000	2"	3#3/0	1#3/0	1#6	----
4000	2"	3#3/0	1#3/0	1#3	TWO PARALLEL FEEDERS REQUIRED
5000	2"	3#3/0	1#3/0	1#6	----
6000	2"	3#3/0	1#3/0	1#6	----
7000	2"	3#3/0	1#3/0	1#6	----
7001	2"	3#3/0	1#3/0	1#6	----
8000	2"	3#3/0	1#3/0	1#6	----
8001	2"	3#3/0	1#3/0	1#6	----

E ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE
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TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

E2.01

ELECTRICAL LEGEND, RISER DIAG. & SCHS

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT				DISCONNECTING MEANS AND/OR
UNIT DESIGNATION	CIRCUIT DESIGNATION	LOCATION	NOTES	BRANCH CIRCUIT SIZE
RTU-1	M1-1,3,5	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#8, #10G, 3/4"C
RTU-2	M1-7,9,11	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
RTU-3	M1-13,15,17	ROOF	1	100/-/3 NEMA 3R DISCONNECT, 3#4, #8G, 1"C
RTU-4	M1-2,4,6	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
RTU-5	M1-8,10,12	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#8, #10G, 3/4"C
RTU-6	M1-14,16,18	ROOF	1	100/-/3 NEMA 3R DISCONNECT, 3#4, #8G, 1"C
RTU-7	HP1-2,4,6	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#8, #10G, 3/4"C
RTU-8	HP1-8,10,12	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#8, #10G, 3/4"C
RTU-9	M1-20,22,24	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
RTU-10	M2-1,3,5	ROOF	1	100/-/3 NEMA 3R DISCONNECT, 3#4, #8G, 1"C
RTU-11	M2-7,9,11	ROOF	1	100/-/3 NEMA 3R DISCONNECT, 3#4, #8G, 1"C
RTU-12	M2-13,15,17	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
RTU-13	M2-2,4,6	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
RTU-14	M2-8,10,12	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#8, #10G, 3/4"C
RTU-15	M2-14,16,18	ROOF	1	60/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
RTU-16	A1-2,4,6	ROOF	1	100/-/3 NEMA 3R DISCONNECT, 3#4, #8G, 1"C
EF-1	HP1-21	WOMEN 155	2	2#12, #12G, 1/2"C
EF-2	HP1-21	WOMEN 155	2	2#12, #12G, 1/2"C
EF-3	HP1-19	JANITOR 156	2	2#12, #12G, 1/2"C
EF-4	HP1-21	MEN 157	2	2#12, #12G, 1/2"C
EF-5	HP1-21	MEN 157	2	2#12, #12G, 1/2"C
EF-6	L1-7	JAN 203	2	2#12, #12G, 1/2"C
EF-7	L1-7	RR 111	2	2#12, #12G, 1/2"C
EF-8	L1-7	RR 105	2	2#12, #12G, 1/2"C
EF-9	A1-1	RR 190	2	2#12, #12G, 1/2"C
EF-10	A1-1	JAN 204	2	2#12, #12G, 1/2"C
EF-11	A1-1	RR 186	2	2#12, #12G, 1/2"C
FCU-1/FCCU-1	L1-2,4	IDF 118/ROOF	4	30/-/2 NEMA 3R DISCONNECT, 2#10, #10G, 3/4"C
WH-1	A1-8,10	JAN 204		30/-/1 DISCONNECT, 2#12, #12G, 1/2"C
WH-2	L1-6,8	JAN 203		30/-/1 DISCONNECT, 2#12, #12G, 1/2"C
WH-3	HP1-14,16	JAN 156		30/-/1 DISCONNECT, 2#12, #12G, 1/2"C
HWCP-1	L1-10	JAN 203	3	2#12, #12G, 1/2"C

A. ALL DISCONNECTS AND COMBINATION STARTERS ARE NEMA 1 ENCLOSED, UNO.

NOTES:
1. FURNISH AND INSTALL DUCT SMOKE DETECTOR AT SUPPLY DUCT. FUNISH AND INSTALL RELAY FOR SHUT DOWN CONTROL.
2. EXHAUST FAN SHALL BE SWITCHED WITH LIGHTS.
3. FURNISH AND INSTALL CERUS BUILDING AUTOMATION STARTER #BAS-1P. FURNISH 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK.
4. FURNISH AND INSTALL MOTOR RATED SWITCH ABOVE ACCESSIBLE CEILING FOR FCU. FEED THRU FCCU.

A ELECTRICAL – MECHANICAL EQUIPMENT CONNECTION SCHEDULE
SCALE: N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE
A	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER	LITHONIA #2BLT 4 48L ADSM XX LP840 XX METALUX #24CZ-LD4-50-S-UNV-L840-CD1 LSI LPEC24-LED-HO-NW-UE SIGNIFY #2EVG48LB40-4-RS-UNV-DIM	LED 4000K 45	120/277
AE	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER 1400 LUMEN BATTERY PACK	LITHONIA #2BLT 4 48L ADSM XX LP840 XX EL14L METALUX #24CZ-LD4-50-S-UNV-EL14W-L840-CD1 LSI LPEC24-LED-HO-NW-UE-EM SIGNIFY #2EVG48LB40-4-RS-UNV-DIM-EMLED	LED 4000K 45	120/277
B	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER	LITHONIA #2BLT 4 30L ADSM XX LP840 XX METALUX #24CZ-LD4-35-S-UNV-L840-CD1 LSI LPEC24-LED-SS-NW-UE SIGNIFY #2EVG38LB40-4-RS-UNV-DIM	LED 4000K 30	120/277
BE	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER 1400 LUMEN BATTERY PACK	LITHONIA #2BLT 4 30L ADSM XX LP840 XX EL14L METALUX #24CZ-LD4-35-S-UNV-EL14W-L840-CD1 LSI LPECC24-LED-SS-NW-UE-EM SIGNIFY #2EVG38LB40-4-RS-UNV-DIM-EMLED	LED 4000K 30	120/277
C	6" RECESSED DOWNLIGHT	LITHONIA #LDN6 40/10 L06 AR MVOLT CONTECH LIGHTING #R6NC-1-40K-27-D / C6322M-CLR HALO COMMERCIAL #PD610ED010-PDM6A840-61VC SIGNIFY #6RN / P6RDL10840CLZ10U	LED 4000K 13	120/277
CE	6" RECESSED DOWNLIGHT EMERGENCY BATTERY PACK	LITHONIA #LDN6 40/10 L06 AR MVOLT EM CONTECH LIGHTING #R6NC-1-40K-27-D-ER / C6322M-CLR HALO COMMERCIAL #RD610ED010EM-PDM6A840-61VC SIGNIFY #6RNEM / P6RDL10840CLZ10U	LED 4000K 13	120/277
D	4' STRIPLIGHT	LITHONIA #ZL1N L48 3000LM FST MVOLT 40K WH METALUX #4SNLED-33SL-LW-UNV-L840-CD1 LSI S-4-LED-SS-NW-UE SIGNIFY #FSS430LB40-UNV-DIM	LED 4000K 33	120/277
DE	4' LED STRIPLIGHT EMERGENCY BATTERY PACK	LITHONIA #ZL1N L48 3000LM FST MVOLT 40K 80CRI E7W WH METALUX #4SNLED-33SL-LW-UNV-EL7W-L840-CD1 LSI S-4-LED-SS-NW-UE-EM SIGNIFY #FSS430LB40-UNV-DIM-EMLED	LED 4000K 33	120/277
F2	2' RECESSED PERIMETER LIGHTING	MARK ARCHITECTURAL #SPRLED LOP 2FT RLP FL 80CRI 40K 400LMF MVOLT CORONET #FLAWLESS LED 2 40 LTG1 UNV	LED 4000K 7	120/277
F3	3' RECESSED PERIMETER LIGHTING	MARK ARCHITECTURAL #SPRLED LOP 3FT RLP FL 80CRI 40K 400LMF MVOLT CORONET #FLAWLESS LED 3 40 LTG1 UNV	LED 4000K 10	120/277
F4	4' RECESSED PERIMETER LIGHTING	MARK ARCHITECTURAL #SPRLED LOP 4FT RLP FL 80CRI 40K 400LMF MVOLT CORONET #FLAWLESS LED 4 40 LTG1 UNV	LED 4000K 14	120/277
G	4' ZIPTWO LED SYSTEM STANDARD OUTPUT 120 DEGREE SYMMETRIC	VODE LIGHTING #707-Z2 4' ZZ XX AE 2 0 Z SO 40K S3 0 XX CORONET #RUSH REC LED 4' 40 LTG1 UNV	LED 4000K 28	120/277
GE	4' ZIPTWO LED SYSTEM STANDARD OUTPUT 120 DEGREE SYMMETRIC EMERGENCY BATTERY PACK	VODE LIGHTING #707-Z2 4' ZZ XX AE 2 0 Z SO 40K S3 0 XX EM CORONET #RUSH REC LED 4' 40 LTG1 UNV EM	LED 4000K 28	120/277
SA	MEDITERRANEAN PENDANT FINISH AS SELECTED BY ARCHITECT	ELA #MED 11/SP/H3/69LED/40/120/CG/XX/	LED 4000K 69	120/277
SB	MEDITERRANEAN WALLPACK FINISH AS SELECTED BY ARCHITECT	ELA #MED 11/BR/H3/69LED/40/120/CG/XX/	LED 4000K 69	120/277
SC	FOUR HEAD ARM MOUNTED AREA LIGHT TYPE R5 DISTRIBUITION 30' POLE, 24" PEDESTAL	LITHONIA #RSX2 LED P2 40K R5	LED 4000K 456	120/277
SD	ARCHITECTURAL WALL SCONCE TYPE FORWARD THROW DISTRIBUTION FINISH AS SELECTED BY ARCHITECT	LITHONIA #WST LED P3 40K VF MVOLT RAYON #T630LED 40 UNI12 40 T3 BZ McGRAW-EDISON #IST-AF-1000-LED-E1-T4FT-XX	LED 4000K 50	120/277
SF	11" SURFACE MOUNT DOWNLIGHT	JUNO# JSF 11IN 13LM 40K 90CRI MVOLT ZT WH	LED 4000K 15	120/277
X	UNIVERSAL EXIT LIGHT WITH BATTERY PACK,	LITHONIA #LQMSW3R120/277ELN MULE #MX-B-R-U SURE-LITES #LPX7 EELP #XE2RW-EM	LED'S FURNISHED	120/277

B ELECTRICAL LIGHTING FIXTURE SCHEDULE
SCALE: N.T.S.

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REVISION | DATE | APPROVED BY | DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

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ELECTRICAL SCHEDULES

PANELBOARD HP1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
200 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND; — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
	1080		RECEPTACLES	20/1	1	A	2	50/3	RTU-7			4707
	720		RECEPTACLES	20/1	3	B	4	–	*			4707
		1200	CWC	20/1	5	C	6	–	*			4707
		1000	VENDING MACHINE	20/1	7	A	8	50/3	RTU-8			4707
		1000	VENDING MACHINE	20/1	9	B	10	–	*			4707
	720		RECEPTACLES	20/1	11	C	12	–	*			4707
	900		RECEPTACLES	20/1	13	A	14	30/2	WH-3			2250
	360		RTU RECEPTACLES	20/1	15	B	16	–	*			2250
1173			LIGHTING	20/1	17	C	18	20/1	RECEPTACLE		180	
702		41	LIGHTING/EF-3	20/1	19	A	20	20/1	FACP			360
		1392	EF-1,2,4,5	20/1	21	B	22	20/1	SPARE			
912			SITE LIGHTING	20/2	23	C	24	20/1	SPARE			
912			*	–	25	A	26	20/1	SPARE			
1595			EXTERIOR LIGHTING	20/1	27	B	28	20/1	SPARE			
		1200	SIGNAGE	20/1	29	C	30	20/1	SPARE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING)	5294 CONNECTED	6618 DEMAND
VA:R (RECEPTACLES)	3960 CONNECTED	3960 DEMAND
VA:O (OTHER)	38935 CONNECTED	38935 DEMAND
VA: TOTAL	48189 CONNECTED	49513 DEMAND
AMPS: TOTAL	134 CONNECTED	137 DEMAND

L	R	O		TOTAL			
1614	1980	13065	VA CONNECTED TO A PHASE	16659	VA =	139	AMPS CONNECTED TO A PHASE @ 120 VOLTS
1595	1080	14056	VA CONNECTED TO B PHASE	16731	VA =	139	AMPS CONNECTED TO B PHASE @ 120 VOLTS
2085	900	11814	VA CONNECTED TO C PHASE	14799	VA =	123	AMPS CONNECTED TO C PHASE @ 120 VOLTS
5294	3960	38935	TOTAL	48189	VA		

PANELBOARD A1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
200 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
1364		123	LIGHTING/EF-9,10,11	20/1	1	A	2	70/3	RTU-16			6149
			SPARE	20/1	3	B	4	–	*			6149
		1200	SIGNAGE	20/1	5	C	6	–	*			6149
			SPARE	20/1	7	A	8	30/2	WH-1			2250
			SPARE	20/1	9	B	10	–	*			2250
			SPARE	20/1	11	C	12	20/1	RECEPTACLES		1080	
	1080		RECEPTACLES	20/1	13	A	14	20/1	RECEPTACLES		360	
		1500	HAND DRYER	20/1	15	B	16	20/1	COMPUYERS		720	
	900		RECEPTACLES	20/1	17	C	18	20/1	COMPUYERS		180	
		1500	HAND DRYER	20/1	19	A	20	20/1	COMPUYERS		720	
		500	COUNTER RECEPTACLES	20/1	21	B	22	20/1	RTU-RECEPTACLE			
		500	COUNTER RECEPTACLES	20/1	23	C	24	20/1	SPARE			
	360		RECEPTACLES	20/1	25	A	26	20/1	SPARE			
	720		RECEPTACLES	20/1	27	B	28	20/1	SPARE			
	720		RECEPTACLES	20/1	29	C	30	20/1	SPARE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	30/3	SURGE PROTECTIVE DEVICE			
			SPACE	20/1	39	B	40	–	*			
			SPACE	20/1	41	C	42	–	*			

VA:L (LIGHTING)	1364 CONNECTED	1705 DEMAND
VA:R (RECEPTACLES)	6840 CONNECTED	6840 DEMAND
VA:O (OTHER)	28270 CONNECTED	28270 DEMAND
VA: TOTAL	36474 CONNECTED	36815 DEMAND
AMPS: TOTAL	101 CONNECTED	102 DEMAND

L	R	O		TOTAL			
1364	2520	10022	VA CONNECTED TO A PHASE	13906	VA =	116	AMPS CONNECTED TO A PHASE @ 120 VOLTS
	1440	10399	VA CONNECTED TO B PHASE	11839	VA =	99	AMPS CONNECTED TO B PHASE @ 120 VOLTS
	2880	7849	VA CONNECTED TO C PHASE	10729	VA =	89	AMPS CONNECTED TO C PHASE @ 120 VOLTS
1364	6840	28270	TOTAL	36474	VA		

PANELBOARD M1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
1200 MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 1200 A; NEUTRAL – 100%; EQUIPMENT GROUND; ISOLATED GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		4707	RTU-1	50/3	1	A	2	60/3	RTU-4			5092
		4707	*	–	3	B	4	–	*			5092
		4707	*	–	5	C	6	–	*			5092
		5092	RTU-2	60/3	7	A	8	50/3	RTU-5			4707
		5092	*	–	9	B	10	–	*			4707
		5092	*	–	11	C	12	–	*			4707
		6149	RTU-3	70/3	13	A	14	70/3	RTU-6			6149
		6149	*	–	15	B	16	–	*			6149
		6149	*	–	17	C	18	–	*			6149
			SPACE & BUS	225/3	19	A	20	60/3	RTU-9			5092
			*	–	21	B	22	–	*			5092
			*	–	23	C	24	–	*			5092
			SPACE	20/1	25	A	26	100/3	PANEL LC2		10080	3000
			SPACE	20/1	27	B	28	–	*		8640	3500
			SPACE	20/1	29	C	30	–	*		8640	1860
		3828	PANEL L1	100/3	31	A	32	100/3	PANEL LC1		9540	500
3995		1956	*	–	33	B	34	–	*		9000	1000
2745		2250	*	–	35	C	36	–	*		10080	1000
		3228	PANEL M2	400/3	37	A	38	225/3	PANEL LP1		13680	6200
		3228	*	–	39	B	40	–	*		14220	4800
		3228	*	–	41	C	42	–	*		13500	3200

VA:L (LIGHTING)	6740 CONNECTED	8425 DEMAND
VA:R (RECEPTACLES)	97380 CONNECTED	53690 DEMAND
VA:O (OTHER)	240902 CONNECTED	240902 DEMAND
VA: TOTAL	345022 CONNECTED	303017 DEMAND
AMPS: TOTAL	958 CONNECTED	841 DEMAND

L	R	O		TOTAL			
	33300	82798	VA CONNECTED TO A PHASE	116098	VA =	967	AMPS CONNECTED TO A PHASE @ 120 VOLTS
3995	31860	80525	VA CONNECTED TO B PHASE	116380	VA =	970	AMPS CONNECTED TO B PHASE @ 120 VOLTS
2745	32220	77579	VA CONNECTED TO C PHASE	112544	VA =	938	AMPS CONNECTED TO C PHASE @ 120 VOLTS
6740	97380	240902	TOTAL	345022	VA		

PANELBOARD M2

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
400 MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 400 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		6140	RTU-10	70/3	1	A	2	60/3	RTU-13			5092
		6149	*	–	3	B	4	–	*			5092
		6149	*	–	5	C	6	–	*			5092
		6149	RTU-11	70/3	7	A	8	50/3	RTU-14			4707
		6149	*	–	9	B	10	–	*			4707
		6149	*	–	11	C	12	–	*			4707
		5092	RTU-12	60/3	13	A	14	60/3	RTU-15			5092
		5092	*	–	15	B	16	–	*			5092
		5092	*	–	17	C	18	–	*			5092
			SPACE	20/1	19	A	20	20/1	SPACE			
			SPACE	20/1	21	B	22	20/1	SPACE			
			SPACE	20/1	23	C	24	20/1	SPACE			
			SPACE	20/1	25	A	26	20/1	SPACE			
			SPACE	20/1	27	B	28	20/1	SPACE			
			SPACE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING)	CONNECTED	DEMAND
VA:R (RECEPTACLES)	CONNECTED	DEMAND
VA:O (OTHER)	96843 CONNECTED	96843 DEMAND
VA: TOTAL	96843 CONNECTED	96843 DEMAND
AMPS: TOTAL	269 CONNECTED	269 DEMAND

L	R	O		TOTAL			
		32281	VA CONNECTED TO A PHASE	32281	VA =	269	AMPS CONNECTED TO A PHASE @ 120 VOLTS
		32281	VA CONNECTED TO B PHASE	32281	VA =	269	AMPS CONNECTED TO B PHASE @ 120 VOLTS
		32281	VA CONNECTED TO C PHASE	32281	VA =	269	AMPS CONNECTED TO C PHASE @ 120 VOLTS
		96843	TOTAL	96843	VA		

PANELBOARD L1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
147			LIGHTING	20/1	1	A	2	20/2	FCU-1/FCCU-1			1456
984			LIGHTING	20/1	3	B	4	–	*			1456
1318			LIGHTING	20/1	5	C	6	30/2	WH-2			2250
1294		123	LIGHTING/EF-6,7,8	20/1	7	A	8	–	*			2250
1776			LIGHTING	20/1	9	B	10	20/1	HMCP-1			500
1427			LIGHTING	20/1	11	C	12	20/1	SPARE			
1634			LIGHTING	20/1	13	A	14	20/1	SPARE			
1235			LIGHTING	20/1	15	B	16	20/1	SPARE			
			SPARE	20/1	17	C	18	20/1	SPARE			
			SPARE	20/1	19	A	20	20/1	SPARE			
			SPARE	20/1	21	B	22	20/1	SPARE			
			SPARE	20/1	23	C	24	20/1	SPARE			
			SPARE	20/1	25	A	26	20/1	SPARE			
			SPARE	20/1	27	B	28	20/1	SPARE			
			SPARE	20/1	29	C	30	20/1	SPARE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING)	11139 CONNECTED	13924 DEMAND
VA:R (RECEPTACLES)	CONNECTED	DEMAND
VA:O (OTHER)	8035 CONNECTED	8035 DEMAND
VA: TOTAL	19174 CONNECTED	21959 DEMAND
AMPS: TOTAL	53 CONNECTED	61 DEMAND

L	,	R	O		TOTAL			
			3829	VA CONNECTED TO A PHASE	3829	VA =	32	AMPS CONNECTED TO A PHASE @ 120 VOLTS
3995			1956	VA CONNECTED TO B PHASE	5951	VA =	50	AMPS CONNECTED TO B PHASE @ 120 VOLTS
2745			2250	VA CONNECTED TO C PHASE	4995	VA =	42	AMPS CONNECTED TO C PHASE @ 120 VOLTS
6740			8035	TOTAL	14775	VA		

A ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S.

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956 . 994 . 1900
twgarch.com

REVISION | DATE | APPROVED BY | DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

E4.01

ELECTRICAL PANEL SCHEDULE

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PANELBOARD LP1 – Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
225A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
	720		RECEPTACLES	20/1	1	A	2	20/1	RECEPTACLES		1080	
	720		RECEPTACLES	20/1	3	B	4	20/1	RECEPTACLES		1080	
	1080		RECEPTACLES	20/1	5	C	6	20/1	MOTORIZED DOOR			500
	1080		RECEPTACLES	20/1	7	A	8	20/1	RECEPTACLES		900	
	1080		RECEPTACLES	20/1	9	B	10	20/1	RECEPTACLES		720	
	1080		RECEPTACLES	20/1	11	C	12	20/1	RECEPTACLES		720	
	720		RECEPTACLES	20/1	13	A	14	20/1	RECEPTACLES		1080	
	720		RECEPTACLES	20/1	15	B	16	20/1	RECEPTACLES		720	
		500	SCREEN MONITOR	20/1	17	C	18	20/1	RECEPTACLES		720	
	900		RECEPTACLES	20/1	19	A	20	20/1	RECEPTACLES		900	
	720		RECEPTACLES	20/1	21	B	22	20/1	HAND DRYER			1500
	720		RECEPTACLES	20/1	23	C	24	20/1	RECEPTACLES		720	
		500	RECEPTACLES	20/1	25	A	26	20/1	HAND DRYER			1500
		500	RECEPTACLES	20/1	27	B	28	20/1	COUNTER RECEPTACLES			500
	1080		RECEPTACLES	20/1	29	C	30	20/1	COUNTER RECEPTACLES			500
	900		RTU–RECEPTACLES	20/1	31	A	32	20/1	MAIL ROOM RECEPTACLES		720	
	1080		RTU–RECEPTACLES	20/1	33	B	34	20/1	SPARE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

PANELBOARD LP1 – Section 2

		900	UC REFRIGERATOR	20/1	43	A	44	20/1	RECEPTACLES		720	
	540		RECEPTACLES	20/1	45	B	46	20/1	RECEPTACLES		720	
	720		RECEPTACLES	20/1	47	C	48	20/1	RECEPTACLES		900	
		500	MOTORIZED DOOR	20/1	49	A	50	20/1	VENDING MACHINE			900
	900		RECEPTACLES	20/1	51	B	52	20/1	VENDING MACHINE			900
	540		RECEPTACLES	20/1	53	C	54	20/1	EWC			1200
		500	COUNTER RECEPTACLES	20/1	55	A	56	20/1	RECEPTACLES		720	
		500	COUNTER RECEPTACLES	20/1	57	B	58	20/1	RECEPTACLES		720	
		500	COUNTER RECEPTACLES	20/1	59	C	60	20/1	RECEPTACLES		720	
		900	REFRIGERATOR	20/1	61	A	62	20/1	RECEPTACLES		720	
		900	REFRIGERATOR	20/1	63	B	64	20/1	RECEPTACLES		900	
	720		RECEPTACLES	20/1	65	C	66	20/1	RECEPTACLES		900	
	1080		RECEPTACLES	20/1	67	A	68	20/1	MOTORIZED SCREEN			500
	1080		RECEPTACLES	20/1	69	B	70	20/1	RECEPTACLES		1080	
	720		RECEPTACLES	20/1	71	C	72	20/1	RECEPTACLES		720	
	720		RECEPTACLES	20/1	73	A	74	20/1	RECEPTACLES		720	
	720		RECEPTACLES	20/1	75	B	76	20/1	RECEPTACLES		720	
	720		RECEPTACLES	20/1	77	C	78	20/1	RECEPTACLES		720	
			SPACE	20/1	79	A	80	20/1	SPACE			
			SPACE	20/1	81	B	82	20/1	SPACE			
			SPACE	20/1	83	C	84	20/1	SPACE			

	CONNECTED	DEMAND
VA:L (LIGHTING)		
VA:R (RECEPTACLES)	41400 CONNECTED	25700 DEMAND
VA:O (OTHER)	14200 CONNECTED	14200 DEMAND
VA: TOTAL	55600 CONNECTED	39900 DEMAND
AMPS: TOTAL	154 CONNECTED	111 DEMAND

L	R	O		TOTAL			
	13680	6200	VA CONNECTED TO A PHASE	19880	VA =	166	AMPS CONNECTED TO A PHASE @ 120 VOLTS
	14220	4800	VA CONNECTED TO B PHASE	19020	VA =	159	AMPS CONNECTED TO B PHASE @ 120 VOLTS
	13500	3200	VA CONNECTED TO C PHASE	16700	VA =	139	AMPS CONNECTED TO C PHASE @ 120 VOLTS
	41400	14200	TOTAL	55600	VA		

PANELBOARD LC1 – Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 200%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
	720		COMPUTERS	20/1	1	A	2	20/1	COMPUTERS		360	
	720		COMPUTERS	20/1	3	B	4	20/1	COMPUTERS		360	
	720		COMPUTERS	20/1	5	C	6	20/1	COMPUTERS		360	
	720		COMPUTERS	20/1	7	A	8	20/1	COMPUTERS		360	
	720		COMPUTERS	20/1	9	B	10	20/1	COMPUTERS		360	
	720		COMPUTERS	20/1	11	C	12	20/1	COMPUTERS		360	
	720		COMPUTERS	20/1	13	A	14	20/1	COMPUTERS		360	
		500	COPIER	20/1	15	B	16	20/1	COMPUTERS		360	
		500	COPIER	20/1	17	C	18	20/1	COMPUTERS		540	
		500	COPIER	20/1	19	A	20	20/1	COMPUTERS		360	
		500	COPIER	20/1	21	B	22	20/1	COMPUTERS		360	
	540		COMPUTERS	20/1	23	C	24	20/1	COMPUTERS		540	
	540		COMPUTERS	20/1	25	A	26	20/1	COMPUTERS		360	
	540		COMPUTERS	20/1	27	B	28	20/1	COMPUTERS		360	
	540		COMPUTERS	20/1	29	C	30	20/1	COMPUTERS		540	
			SPARE	20/1	31	A	32	20/1	SPARE			
			SPARE	20/1	33	B	34	20/1	SPARE			
			SPARE	20/1	35	C	36	20/1	SPARE			
			SPARE	20/1	37	A	38	20/1	SPACE			
			SPARE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

PANELBOARD LC1 – Section 2

	360		COMPUTERS	20/1	43	A	44	20/1	COMPUTERS		360	
	360		COMPUTERS	20/1	45	B	46	20/1	COMPUTERS		360	
	540		COMPUTERS	20/1	47	C	48	20/1	COMPUTERS		540	
	540		COMPUTERS	20/1	49	A	50	20/1	COMPUTERS		360	
	540		COMPUTERS	20/1	51	B	52	20/1	COMPUTERS		360	
	540		COMPUTERS	20/1	53	C	54	20/1	COMPUTERS		540	
	360		COMPUTERS	20/1	55	A	56	20/1	COMPUTERS		540	
	720		FLOOR BOX	20/1	57	B	58	20/1	COMPUTERS		540	
	720		FLOOR BOX	20/1	59	C	60	20/1	COPIER			500
	720		FLOOR BOX	20/1	61	A	62	20/1	FLOOR BOX		1080	
	720		FLOOR BOX	20/1	63	B	64	20/1	FLOOR BOX		1080	
	720		FLOOR BOX	20/1	65	C	66	20/1	FLOOR BOX		1080	
	720		COMPUTERS	20/1	67	A	68	20/1	FLOOR BOX			
	540		COMPUTERS	20/1	69	B	70	20/1	FLOOR BOX			
	540		COMPUTERS	20/1	71	C	72	20/1	FLOOR BOX			
			SPARE	20/1	73	A	74	20/1	SPACE			
			SPARE	20/1	75	B	76	20/1	SPACE			
			SPARE	20/1	77	C	78	20/1	SPACE			
			SPACE	20/1	79	A	80	30/3	SURGE PROTECTIVE DEVICE			
			SPACE	20/1	81	B	82	–	*			
			SPACE	20/1	83	C	84	–	*			

	CONNECTED	DEMAND
VA:L (LIGHTING)		
VA:R (RECEPTACLES)	28620 CONNECTED	19310 DEMAND
VA:O (OTHER)	2500 CONNECTED	2500 DEMAND
VA: TOTAL	31120 CONNECTED	21810 DEMAND
AMPS: TOTAL	86 CONNECTED	61 DEMAND

L	R	O		TOTAL			
	9540	500	VA CONNECTED TO A PHASE	10040	VA =	84	AMPS CONNECTED TO A PHASE @ 120 VOLTS
	9000	1000	VA CONNECTED TO B PHASE	10000	VA =	83	AMPS CONNECTED TO B PHASE @ 120 VOLTS
	10080	1000	VA CONNECTED TO C PHASE	11080	VA =	92	AMPS CONNECTED TO C PHASE @ 120 VOLTS
	28620	2500	TOTAL	31120	VA		

PANELBOARD LC2 – Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 200%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
	900		COMPUTERS	20/1	1	A	2	20/1	COMPUTERS		720	
		500	IDF 118	20/1	3	B	4	20/1	COMPUTERS		720	
		360	IDF 118	20/1	5	C	6	20/1	COMPUTERS		720	
		500	IDF 118	20/1	7	A	8	20/1	POWER POLE		1080	
		500	IDF 118	20/1	9	B	10	20/1	POWER POLE		1080	
		500	IDF 118	20/1	11	C	12	20/1	POWER POLE		1080	
		2000	IDF 118 L5–30R	30/1	13	A	14	20/1	POWER POLE		1080	
		2000	IDF 118 L5–30R	30/1	15	B	16	20/1	POWER POLE		1080	
	720		COMPUTERS	20/1	17	C	18	20/1	POWER POLE		1080	
	720		COMPUTERS	20/1	19	A	20	20/1	POWER POLE		1080	
	360		COMPUTERS	20/1	21	B	22	20/1	POWER POLE		1080	
		500	COPIER	20/1	23	C	24	20/1	POWER POLE		1080	
		500	COMPUTERS	20/1	25	A	26	20/1	POWER POLE		1080	
	540		COMPUTERS	20/1	27	B	28	20/1	POWER POLE		1080	
	720		COMPUTERS	20/1	29	C	30	20/1	POWER POLE		1080	
			SPARE	20/1	31	A	32	20/1	SPARE			
			SPARE	20/1	33	B	34	20/1	SPARE			
			SPARE	20/1	35	C	36	20/1	SPARE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

PANELBOARD LC2 – Section 2

	540		COMPUTERS	20/1	43	A	44	20/1	SPARE			
	540		POWERPOLE	20/1	45	B	46	20/1	SPARE			
	720		POWERPOLE	20/1	47	C	48	20/1	SPARE			
	720		COMPUTERS	20/1	49	A	50	20/1	SPARE			
	720		COMPUTERS	20/1	51	B	52	20/1	SPARE			
	360		COMPUTERS	20/1	53	C	54	20/1	SPARE			
	720		COMPUTERS	20/1	55	A	56	20/1	SPARE			
		500	COPIER	20/1	57	B	58	20/1	SPARE			
		500	COPIER	20/1	59	C	60	20/1	SPARE			
	720		COMPUTERS	20/1	61	A	62	20/1	SPARE			
	720		COMPUTERS	20/1	63	B	64	20/1	SPARE			
	720		COMPUTERS	20/1	65	C	66	20/1	SPARE			
	720		COMPUTERS	20/1	67	A	68	20/1	SPACE			
	720		COMPUTERS	20/1	69	B	70	20/1	SPACE			
	360		COMPUTERS	20/1	71	C	72	20/1	SPACE			
			SPARE	20/1	73	A	74	20/1	SPACE			
			SPARE	20/1	75	B	76	20/1	SPACE			
			SPARE	20/1	77	C	78	20/1	SPACE			
			SPACE	20/1	79	A	80	30/3	SURGE PROTECTIVE DEVICE			
			SPACE	20/1	81	B	82	–	*			
			SPACE	20/1	83	C	84	–	*			

	CONNECTED	DEMAND
VA:L (LIGHTING)		
VA:R (RECEPTACLES)	27360 CONNECTED	18680 DEMAND
VA:O (OTHER)	8360 CONNECTED	8360 DEMAND
VA: TOTAL	35720 CONNECTED	27040 DEMAND
AMPS: TOTAL	99 CONNECTED	75 DEMAND

L	R	O		TOTAL			
	10080	3000	VA CONNECTED TO A PHASE	13080	VA =	109	AMPS CONNECTED TO A PHASE @ 120 VOLTS
	8640	3500	VA CONNECTED TO B PHASE	12140	VA =	101	AMPS CONNECTED TO B PHASE @ 120 VOLTS
	8640	1860	VA CONNECTED TO C PHASE	10500	VA =	88	AMPS CONNECTED TO C PHASE @ 120 VOLTS
	27360	8360	TOTAL	35720	VA		

A ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S.

THE WARREN GROUP ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900
twgarch.com

REVISION | DATE | APPROVED BY | DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

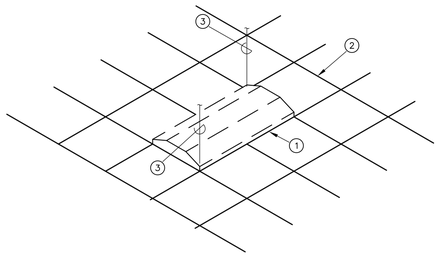
871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

E4.02

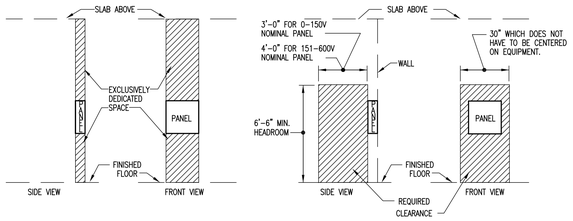
ELECTRICAL PANEL SCHEDULE

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

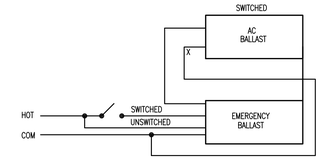


NOTES BY SYMBOL " ◯ "
(1) 2'x 4' LAY-IN FLUORESCENT FIXTURE
(2) SUSPENDED CEILING
(3) TIE WIRE, CONNECT TO TWO CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.

A TYPICAL LAY-IN FIXTURE SUPPORT
SCALE: N.T.S.



B TYPICAL PANELBOARD REQUIRED CLEARANCE
SCALE: N.T.S.



C EMERGENCY BALLAST WIRING DETAIL
SCALE: N.T.S.

D GFCI RECEPTACLE – WIRING DIAGRAM
SCALE: N.T.S.

E WALL MOUNTED SINGLE-POINT GROUND BAR DETAIL
SCALE: N.T.S.

F GROUNDED ELECTRODE SYSTEM DETAIL
SCALE: N.T.S.

THE WARREN GROUP
ARCHITECTS, INC.
1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
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REVISION	DATE	APPROVED BY	DESCRIPTION

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

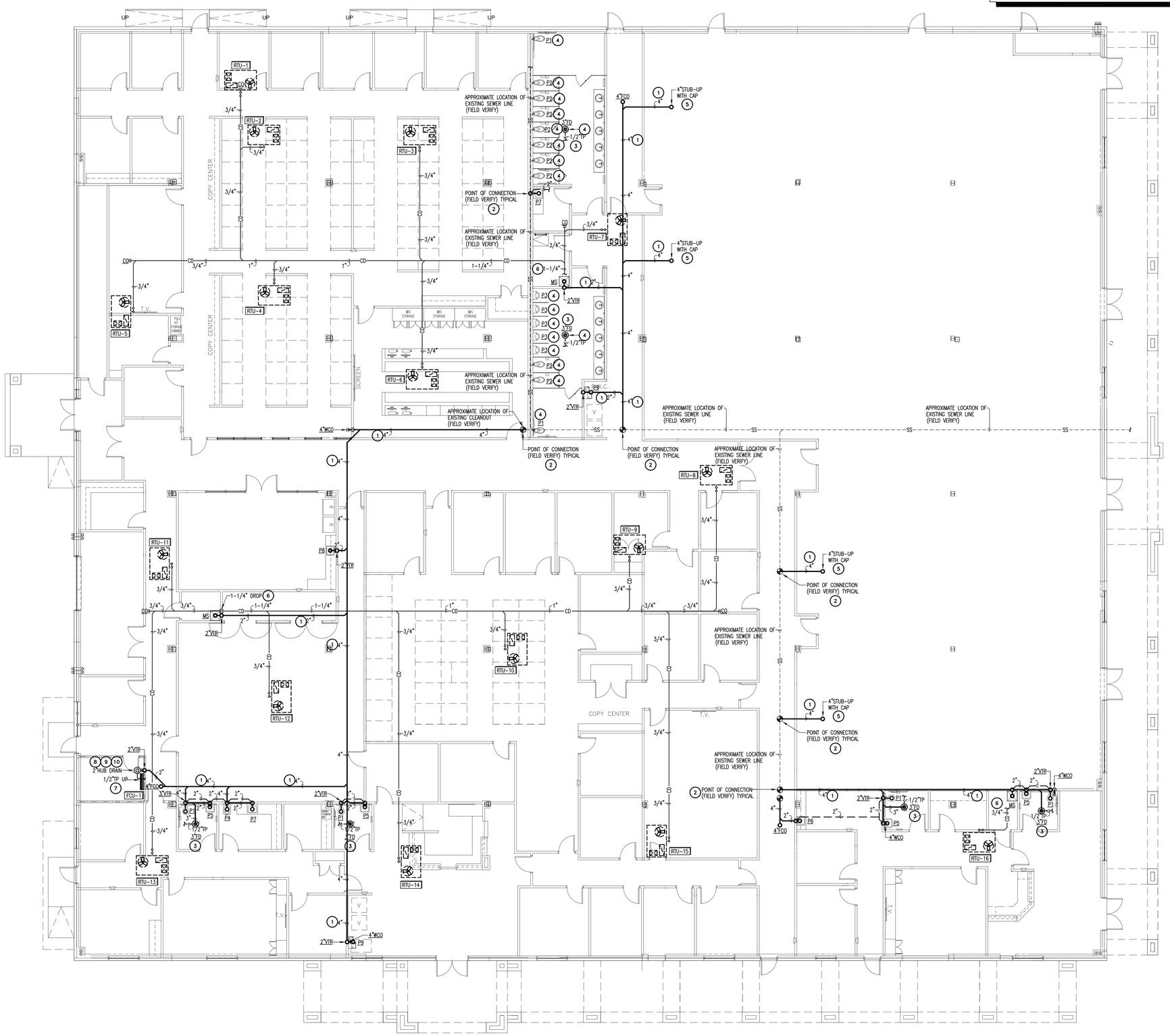
871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

E5.01
ELECTRICAL DETAILS

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9746

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



GENERAL NOTES: ( )

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.

(D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.

(F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.

(G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES

(H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.

(I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING FIXTURE ROUGH-IN.

(J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

KEY NOTES: ○

1. CORE DRILL AND/OR SAW-CUT FINISH FLOOR AND WALLS AS REQUIRED TO PROVIDE NEW ROUGH-IN FOR PLUMBING FIXTURES. PATCH AND REPAIR AS PER ARCHITECTURAL REQUIREMENTS AND SPECIFICATIONS.
2. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
3. PROVIDE TRAP PRIMER CONNECTION FROM NEAREST FLUSH VALVE TRAP PRIMER, REFER TO DETAIL.
4. RECONNECT NEW PLUMBING FIXTURE TO EXISTING SEWER SERVICE.
5. STUB UP SEWER LINE INSIDE BULDING; CAP-OFF AND LABEL "SEWER".
6. COPPER CONDENSATE DRAIN LINE IN ATTIC SPACE, INSULATE C.D. LINE AND PROVIDE PIPE HANGER SUPPORTS MAXIMUM 5'-0" O.C. SPACING. ROUTE AND DROP CONDENSATE LINE DOWN INTO MOP SINK. CLAMP LINE SECURELY TO WALL, REFER TO DETAIL.
7. REFER TO HM/CW FLOOR PLAN FOR CONTINUATION OF PRIMER LINE AND TRAP PRIMER LOCATION ABOVE CEILING.
8. PROVIDE AND INSTALL ¾" COPPER CONDENSATE DRAIN LINE FROM UNIT TO HUB DRAIN. REFER TO DETAIL.
9. COORDINATE HUB DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
10. PROVIDE AND INSTALL FIRE RATED ACCESS DOOR EQUAL TO A ELM MODEL "FR-16x16"; DOOR SHALL SERVICE HUB DRAIN, REFER TO DETAIL.

NORTH

A PLUMBING SEWER FLOOR PLAN
SCALE: 1/8" = 1'-0"

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

TWG
THE WARREN GROUP ARCHITECTS, INC.
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REVISION	DATE	APPROVED BY	DESCRIPTION
1			

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
05.17.2019

PROPOSED

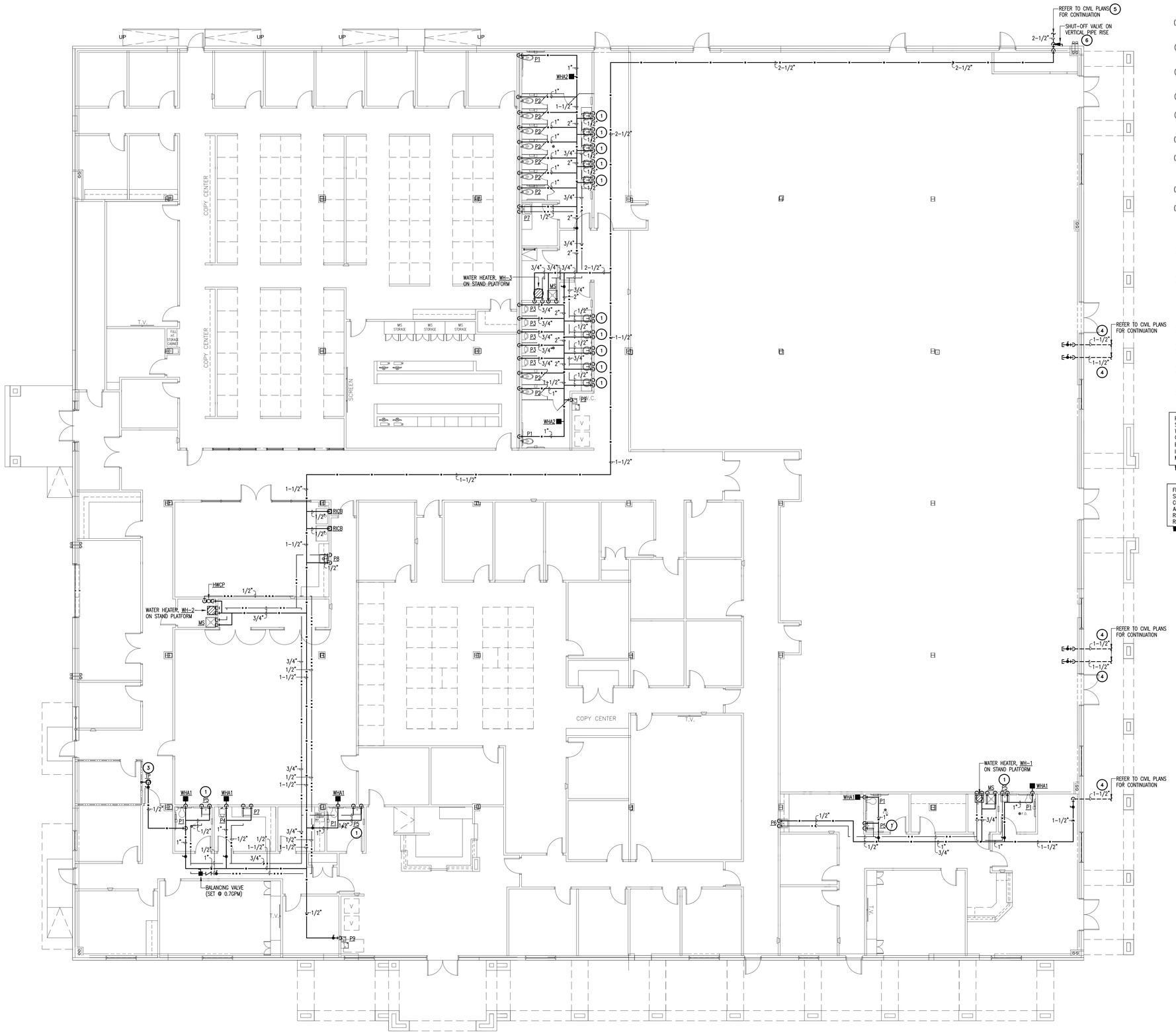
TROPICAL TEXAS BEHAVIORAL HEALTH-AMBULATORY SERVICE FACILITY

871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT	1591801
DATE	05/17/2019
REVISED	

P1.01

PLUMBING SEWER FLOOR PLAN



GENERAL NOTES: ( )

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.

(D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.

(F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.

(G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES

(H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.

(I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING FIXTURE ROUGH-IN.

(J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

KEY NOTES: ○

1. FIXTURE SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE LOCATED UNDER PLUMBING FIXTURE EQUAL TO A LEONARD MODEL 170 WITH COLD WATER BY-PASS AND MOUNTING BRACKET. REFER TO DETAIL.
2. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
3. TRAP PRIMER WITH 1/2" LINE LOCATED ABOVE CEILING. REFER TO DETAIL.
4. ROUTE LINES AND CONNECT TO CITY WATER SERVICE; PROVIDE WITH 1-INCH DOMESTIC WATER METER FOR EACH LINE. REFER TO CIVIL PLANS FOR CONTINUATION.
5. ROUTE LINES AND CONNECT TO CITY WATER SERVICE; PROVIDE WITH 2-INCHES DOMESTIC WATER METER. REFER TO CIVIL PLANS FOR CONTINUATION.
6. FURNISH AND INSTALL BALL VALVE ON EXTERIOR DOMESTIC WATER RISE PIPE. PROVIDE WITH INSULATION AND ALUMINUM JACKET.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

FIRE SPRINKLER CONTRACTOR SHALL VERIFY EXISTING CONDITION OF EXISTING SYSTEM AND MAKE MODIFICATIONS AS REQUIRED TO SPRINKLE RENOVATED AREA.

NORTH

A PLUMBING HW/CW FLOOR PLAN
SCALE: 1/8" = 1'-0"

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871 OLD ALICE ROAD
BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
REVISED

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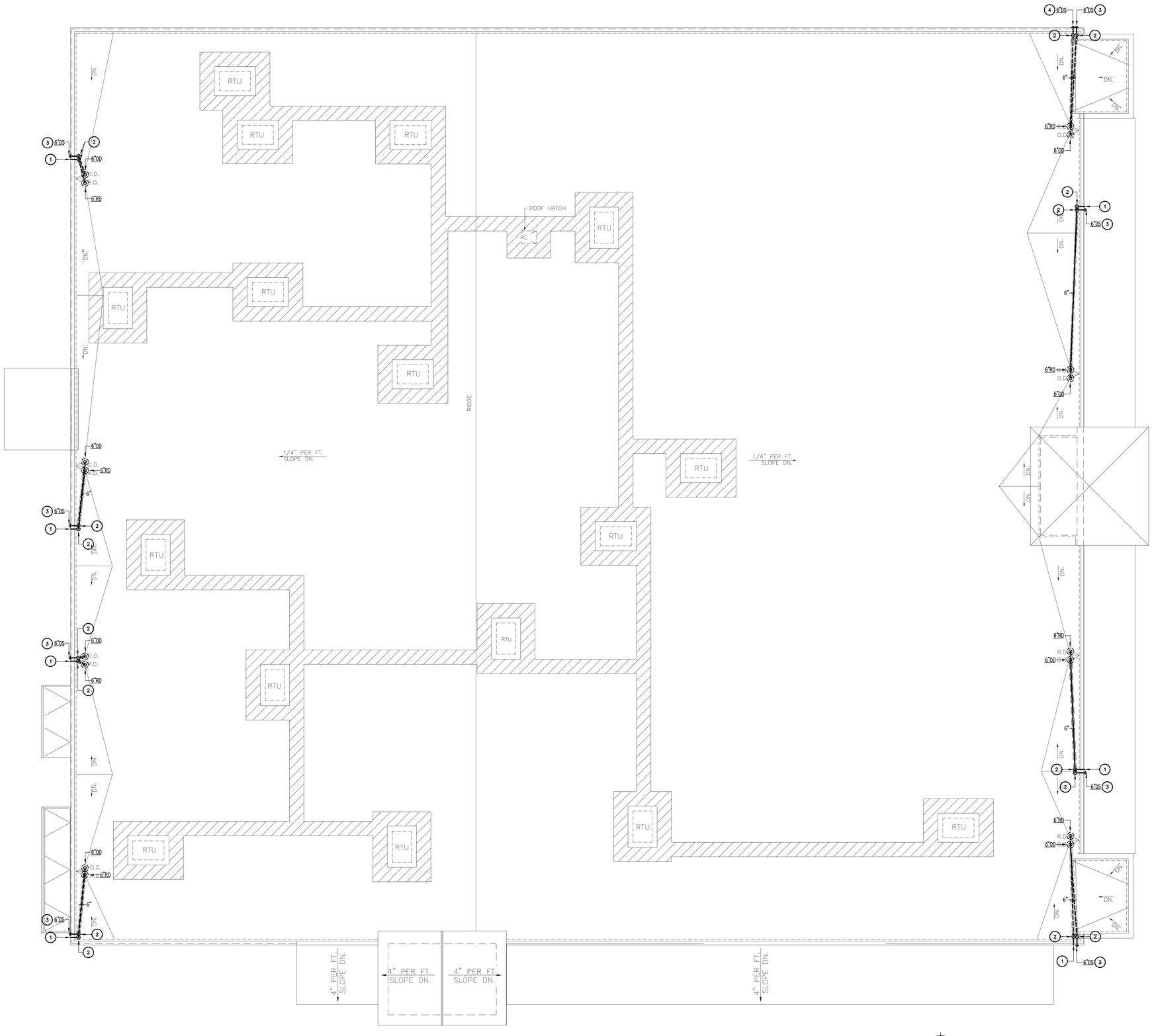
PLUMBING HW/CW FLOOR PLAN



A PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES: ( )

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.

(D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.

(F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.

(G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES

(H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.

(I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING FIXTURE ROUGH-IN.

(J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

KEY NOTES: ○

1. PRIMARY ROOF DRAIN SHALL DISCHARGE DOWN INTO ARCHITECTURAL TRENCH DRAIN. POINT OF DISCHARGE SHALL BE BELOW ARCHITECTURAL TRENCH DRAIN (CONCEALED) REFER TO ARCHITECTURAL PLANS.
2. ROUTE AND INSTALL ROOF DRAIN LEADERS IN FURR OUT. SLOPE HORIZONTAL LEADERS ¼" PER FOOT. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ROOF DRAIN LEADER AND FURR OUT REQUIREMENTS WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICTS.
3. LOCATE DOWN SPOUT SERVING SECONDARY DRAIN AT 18" ABOVE FINISH GROUND LEVEL.
4. LOCATE DOWN SPOUT SERVING PRIMARY DRAIN AT 12" ABOVE FINISH GROUND LEVEL.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

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PLUMBING ROOF PLAN

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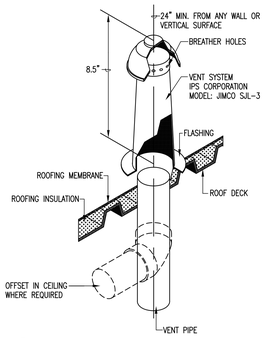
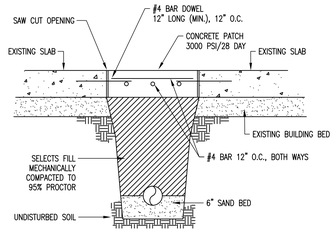
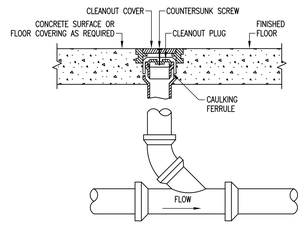


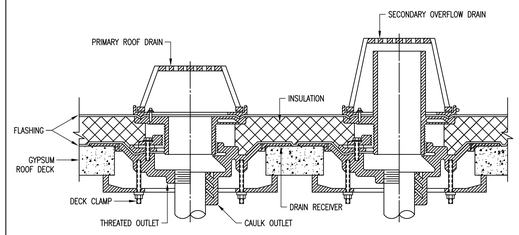
A VENT THROUGH ROOF DETAIL
SCALE: N.T.S.



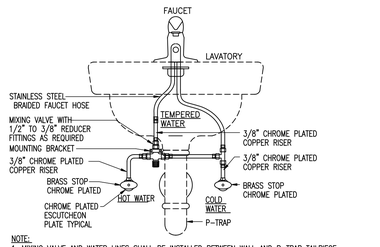
B SAW CUT DETAIL
SCALE: NTS



C FLOOR CLEANOUT DETAIL
SCALE: N.T.S.

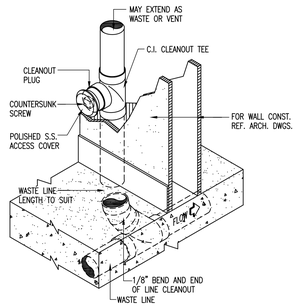


D ROOF AND OVERFLOW DRAIN DETAIL
SCALE: N.T.S.

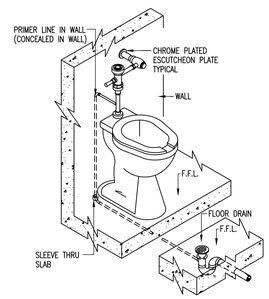


NOTE:
1. MIXING VALVE AND WATER LINES SHALL BE INSTALLED BETWEEN WALL AND P-TRAP TAILPIECE
2. PROVIDE AND INSTALL COVER KIT FOR P-TRAP AND STOPS.
3. FIELD INSULATE MIXING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION. JACKET INSULATION TO MATCH TRAP COVER KIT.
4. PROVIDE AND INSTALL REQUIRED 1/2" TO 3/8" REDUCERS AND CONNECTION FITTINGS.

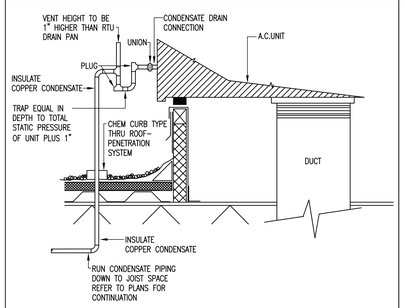
E MIXING VALVE UNDER LAV DETAIL
SCALE: N.T.S.



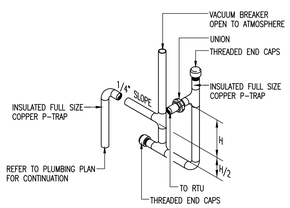
F WALL CLEANOUT DETAIL
SCALE: N.T.S.



G FLUSH VALVE TRAP PRIMER DETAIL
SCALE: N.T.S.

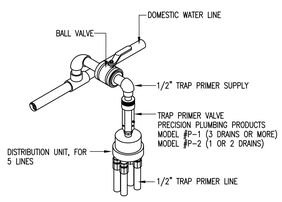


H ROOF TOP UNIT CONDENSATE CONNECTION DETAIL
SCALE: N.T.S.

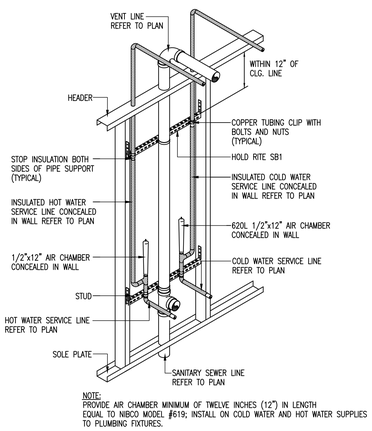


NOTE:
(1) H= FAN INLET PRESSURE (IN. W.C.) + 1-IN.
(2) CONDENSATE LINE SHALL BE INSULATED AND FURNISHED WITH ALUMINUM JACKET, (REFER TO SPECS.).

I RTU CONDENSATE P-TRAP DETAIL
SCALE: N.T.S.

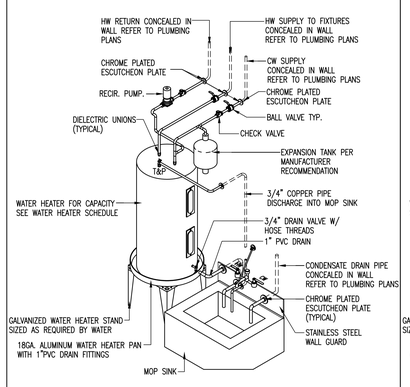


J TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

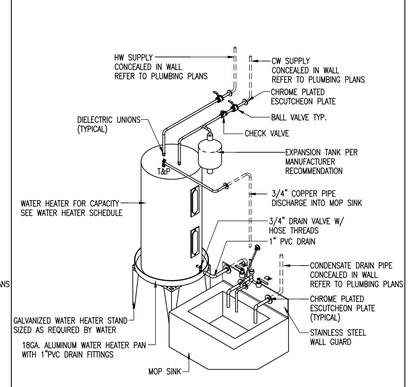


NOTE:
PROVIDE AIR CHAMBER MINIMUM OF TWELVE INCHES (12") IN LENGTH EQUAL TO NIBCO MODEL #619; INSTALL ON COLD WATER AND HOT WATER SUPPLIES TO PLUMBING FIXTURES.

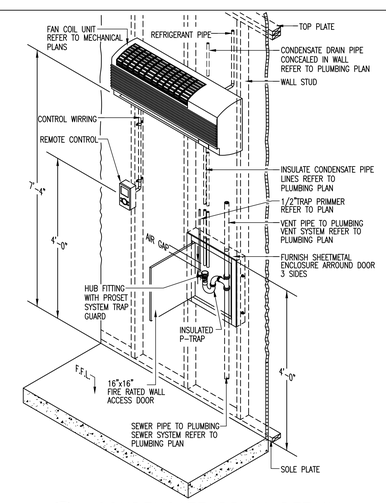
K PLUMBING FIXTURE INSTALLATION DETAIL
SCALE: N.T.S.



L WATER HEATER PLATFORM MOUNTING DETAIL
SCALE: N.T.S.



M WATER HEATER PLATFORM MOUNTING DETAIL
SCALE: N.T.S.



N CONDENSATE DRAIN DETAIL
SCALE: N.T.S.

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PLUMBING SCHEDULES

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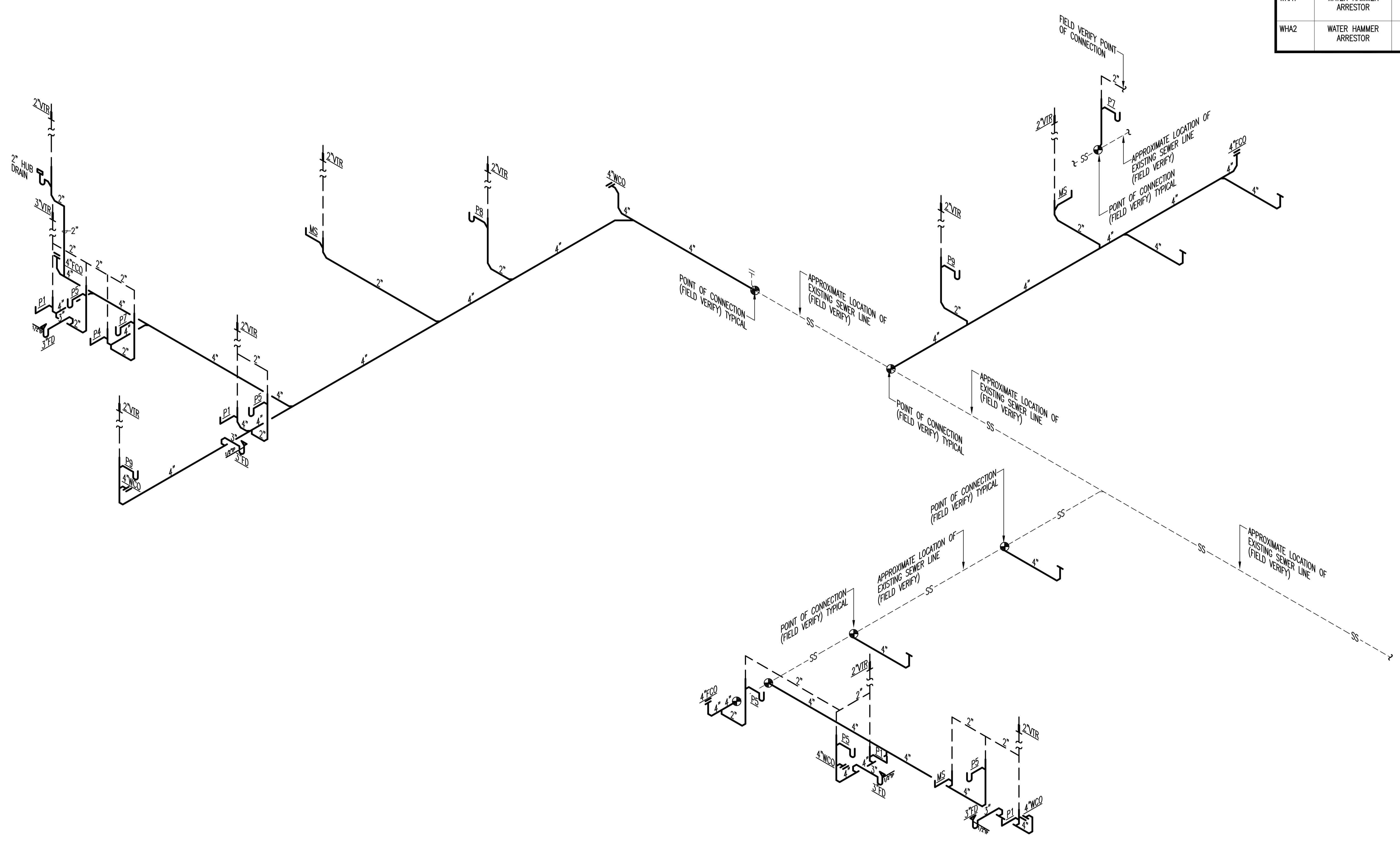
PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—— • ——	DOMESTIC COLD WATER LINE		BALL VALVE		UNION	CW	COLD WATER
—— •• ——	DOMESTIC HOT WATER LINE		BALANCING VALVE		BRANCH – TOP CONNECTION	DN	DOWN
—— ••• ——	DOMESTIC HOT WATER RETURN LINE		CHECK VALVE		PIPE RISER	F.F.E.	FINISH FLOOR ELEVATION
—— TW ——	DOMESTIC TEMPERED WATER LINE		GATE VALVE		PIPE DROP	FU	FIXTURE UNITS
—— ——	SANITARY SEWER VENT LINE	FCO	FLOOR CLEANOUT		THERMOMETER	GW	GREASE WASTE
————	SANITARY WASTE LINE	YCO	YARD CLEANOUT		DIRECTION OF FLOW	I.E.	INVERT ELEVATION
—— CD ——	CONDENSATE LINE		FLOOR SINK	CV	CALIBRATING VALVE	HW	HOT WATER
—— GW ——	GREASE WASTE LINE		FLOOR DRAIN	WCO	WALL CLEANOUT	SS	SANITARY SEWER
—— GAS ——	GAS LINE		ROOF DRAIN	P / 1	PLUMBING RISER DESIGNATION	TP	TRAP PRIMER
—— AIR ——	AIR LINE		POINT OF CONNECTION	02 / P–3.1	PLUMBING DETAIL REFERENCE	TYP	TYPICAL
—— AW ——	ACID WASTE LINE		WALL HYDRANT	ABV. CLG.	ABOVE CEILING	UND. LAV.	UNDER LAVATORY
—— RD ——	ROOF DRAIN LINE		HOSE BIBB	B.F.F.	BELOW FINISH FLOOR	V	VENT
—— OD ——	OVERFLOW DRAIN LINE	WHA	WATER HAMMER ARRESTOR	CO	CLEAN OUT	VTR	VENT THRU ROOF

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		SEWER	VENT	CW	HW	
P1	WATER CLOSET (HANDICAP)	4"	2"	1"	–	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1–1/2" TOP SPUD. ZURN "ECOVANTAGE" MODEL "Z5665–BWL". 16–3/4" RIM HEIGHT, 1.6 GPF, 10" ROUGH–IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111–TP" WITH TRAP PRIMER CONNNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT SEAT LESS COVER.
P2	WATER CLOSET	4"	2"	1"	–	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1–1/2" TOP SPUD. ZURN "ECOVANTAGE" MODEL "Z5655–BWL". 15" RIM HEIGHT, 1.6 GPF, 10" ROUGH–IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111–TP" WITH TRAP PRIMER CONNNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT SEAT LESS COVER.
P3	URINAL (HANDICAP)	2"	2"	3/4"	–	VITREOUS CHINA, WALL HUNG, SIPHON JET ACTION WITH 3/4" TOP SPUD AND WALL HANGERS. MINIMUM 14" RIM TO WALL DISTANCE. EQUAL TO ZURN MODEL "Z5730" WITH SLOAN ROYAL "186–1" FLUSH VALVE AND APPROVED CARRIER SYSTEM.
P4	CLINICAL SERVICE SINK	4"	2"	1"	–	VITREOUS CHINA, WALL HUNG CLINICAL SERVICE SINK WITH BLOW–OUT FLUSHING RIM EQUAL TO AMERICAN STANDARD "CLINIC SERVICE SINK" MODEL "9512.999.020". COMPLETE WITH SLOAN ROYAL 117–HO–YB FLUSH VALVE. FURNISH WITH CARRIER.
P5	LAVATORY WALL HUNG (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, WALL HUNG LAVATORY WITH HOLES ON 4" CENTERS EQUAL TO ZURN MODEL "Z5340". COMPLETE WITH LAVATORY FAUCET MOEN MODEL "8413F15". CHROME FINISH, SINGLE LEVER HANDLE, 1.5 GPM FLOW, ADA APPROVED, WITH CARRIER AND PROTECTIVE COVER ON P–TRAP.
P6	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD–1919–60–3". SELF RIMMING, 19–1/2"X19"X6", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH MOEN MODEL "8289" SWING GOOSENECK SPOUT, CHROMED METAL WRIST BLADE HANDLES, DECK MOUNT FAUCET AND "LK–35" STRAINER WITH BASKET.
P7	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD–2531–60–3". SELF RIMMING, 25"X21"X6", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH MOEN MODEL "8289" SWING GOOSENECK SPOUT, CHROMED METAL WRIST BLADE HANDLES, DECK MOUNT FAUCET AND "LK–35" STRAINER WITH BASKET.
P8	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD–2219–60–3". SELF RIMMING, 22"X19"X6", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH MOEN MODEL "8289" SWING GOOSENECK SPOUT, CHROMED METAL WRIST BLADE HANDLES, DECK MOUNT FAUCET AND "LK–35" STRAINER WITH BASKET.
P9	BI–LEVEL ELECTRIC WATER COOLER (HANDICAP)	2"	2"	1/2"	–	BI–LEVEL, SELF–CONTAINED, WALL HUNG REFRIGERATED WATER COOLER EQUAL TO ELKAY "EZSTL–8". SELF CLOSING CONTROLS ON FRONT AND SIDE, STAINLESS STEEL BASIN. FLEX–GUARD BUBBLER CAPABLE OF DELIVERING 8.0 GPH OF 50°F WATER WITH 80°F INLET WATER AND 90°F ROOM TEMPERATURE. FURNISH WITH CARRIER AND APRON.
MS	MOP SINK FLOOR MOUNTED	2"	2"	3/4"	3/4"	TERRAZO, SQUARE MOP SINK EQUAL TO FIAT "TSBC–3010" 24"X24"X12" WITH 6" DROP FRONT, STAINLESS STEEL RIM GUARD AND "MSG–2424" WALL GUARD. COMPLETE WITH MOEN MODEL "8124 CHROME" SERVICE SINK FAUCET WITH 8" CENTERS, PAIL HOOK, AND VACUUM BREAKER SPOUT. COMPLETE WITH "832–AA" HOSE AND BRACKET, "889–CC" STAINLESS STEEL MOP BRACKET AND GRID STRAINER.
WH–1	WATER HEATER	–	–	3/4"	3/4"	15 GALLON WATER HEATER SHALL BE EQUAL TO A RHEEM MODEL "EGSP15". IT SHALL BE 208V/1ø 4.5KW WITH A RECOVERY OF 30 GALLONS PER HOUR @ 60°F RISE. PROVIDE AND INSTALL EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.
WH–2	WATER HEATER	–	–	3/4"	3/4"	15 GALLON WATER HEATER SHALL BE EQUAL TO A RHEEM MODEL "EGSP15". IT SHALL BE 208V/1ø 4.5KW WITH A RECOVERY OF 30 GALLONS PER HOUR @ 60°F RISE. PROVIDE AND INSTALL EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.
WH–3	WATER HEATER	–	–	3/4"	3/4"	38 GALLON WATER HEATER SHALL BE EQUAL TO A RHEEM MODEL "ELDS40". IT SHALL BE 208V/1ø 4.5KW WITH A RECOVERY OF 30 GALLONS PER HOUR @ 60°F RISE. PROVIDE AND INSTALL EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.
RD	PRIMARY ROOF DRAIN	–	–	–	–	ZURN MODEL "ZC–100–AC–GD" LACQUERED CAST IRON ROOF DRAIN WITH COMBINATION MEMRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON DOME. COMPLETE WITH ANGULAR UNDER DECK CLAMP.
OD	OVERFLOW ROOF DRAIN	–	–	–	–	ZURN MODEL "ZC–100–AC–W2–GD" LACQUERED CAST IRON ROOF DRAIN WITH LOW SILHOUETTE CAST IRON DOME, MEMBRANE FLASHING CLAMP AND GRAVEL GUARD, AND INTERNAL 2" WATER DAM COMPLETE WITH ANGULAR UNDER DECK CLAMP.
3"FD	GENERAL DUTY FLOOR DRAIN	3"	2"	–	–	ZURN MODEL "Z–415–B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.
RICB	REFRIGERATOR ICE CONNECTION BOX	–	–	1/2"	–	GUY GRAY MODEL "BIM–875" ICE CONNECTION BOX.
FCO	FLOOR CLEANOUT	4"	–	–	–	ZURN MODEL "ZN1400" LEVEL–TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA–COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISHED FLOOR.
WCO	WALL CLEANOUT	4"	–	–	–	ZURN MODEL "Z1441" WALL CLEANOUT WITH DURA–COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
HWCP	HOT WATER CIRCULATION PUMP	–	–	3/4"	3/4"	HOT WATER CIRCULATION PUMP SHALL BE EQUAL TO ARMSTRONG MODEL 20B050S–TA ASTRO SERIES, 1/25 HP, 115V/1PH/60Hz. PROVIDE WITH AUTOMATIC TIMER KIT.
WHA1	WATER HAMMER ARRESTOR	–	–	–	–	WATER HAMMER ARRESTOR FOR SINGLE RESTROOM SHALL BE EQUAL TO WADE PISTON–TYPE SHOKSTOPS MODEL # –P, COPPER FINNISH.
WHA2	WATER HAMMER ARRESTOR	–	–	–	–	WATER HAMMER ARRESTOR FOR GANG RESTROOMS SHALL BE EQUAL TO ZURN SHOKTROL MODEL # Z1700 SERIES, STAINLESS STEEL.



A PLUMBING SEWER RISER SCHEMATIC DIAGRAM
SCALE: N.T.S.

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TROPICAL TEXAS BEHAVIORAL HEALTH- AMBULATORY SERVICE FACILITY

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BROWNSVILLE, TEXAS

PROJECT 1591801
DATE 05/17/2019
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