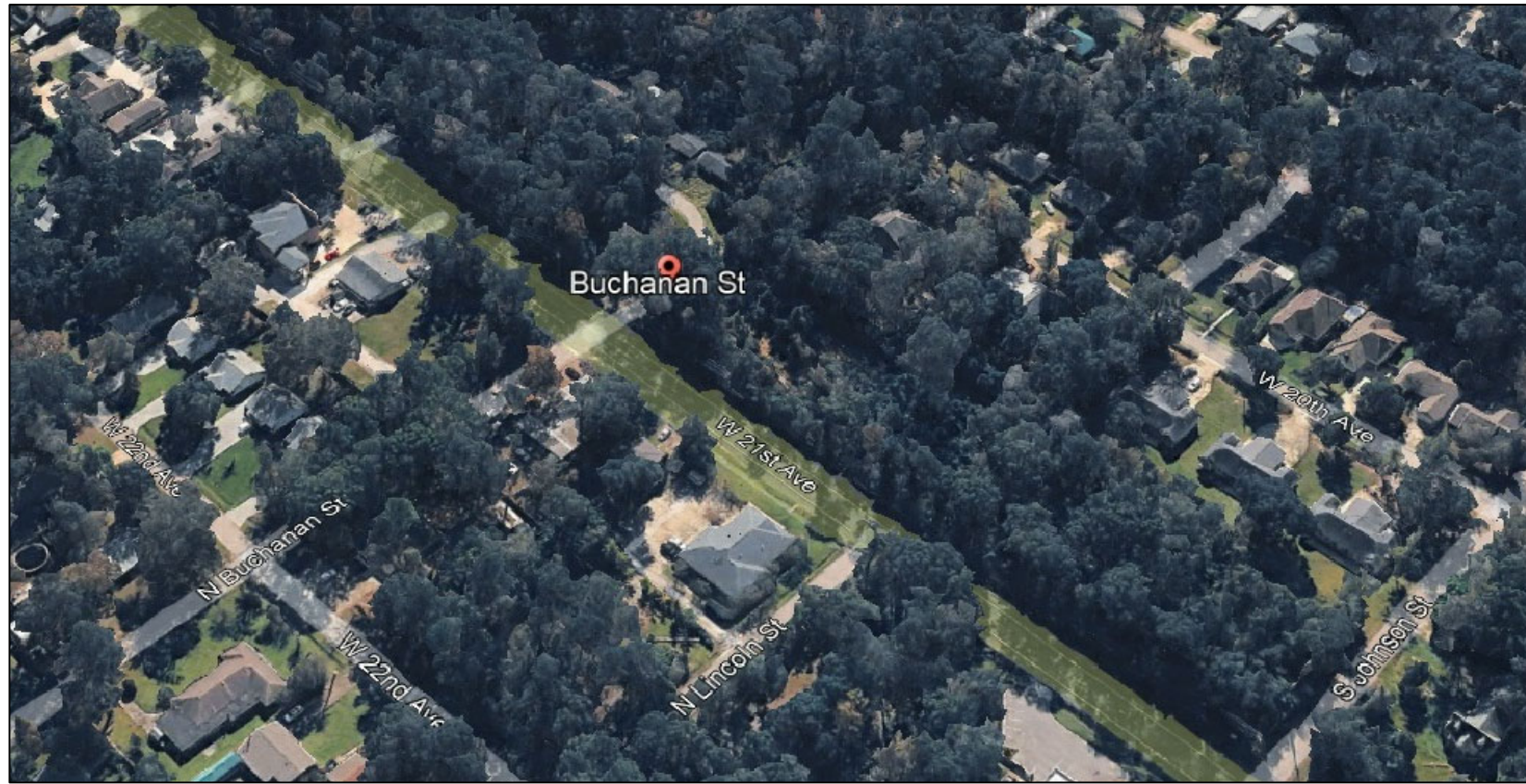




SITE

Drawing Index

T1	Title Sheet
C1	Site Plan
C1.1	Existing Site Plan
C2	Site Details
C3	SWPP Plan
1	Floor Plan
2	Elevations
3	Electrical Plan
4	HVAC Plan
5	Plumbing Plan
6	Foundation and Framing Plan
7	ADA Details

CODE INFORMATION

PROJECT DESCRIPTION - NEW 3122 SF DENTIST OFFICE
TYPE OF CONSTRUCTION VB UNPROTECTED, NOT SPRINKLED

OCCUPANCY: B-1, BUSINESS
CONSTRUCTION TYPE: VB (WOOD FRAMED BUILDING)
BUILDING HEIGHTS - SEE PLANS
FIRE RESISTANCE RATING:
Structural Frame 0 hours
Bearing Walls (Int. & Ext.) 0 hours
Roof Construction 0 hours
Exterior Walls 0 hours

Wind loading - 2021 IBC, 140 MPH Vult, 107 Vnom
Enclosed Building
Exposure B (1609.4)
Category II (Ibc 1604.5)
Wind Importance Factor = 1.0
Internal Pressure Coefficient = +/- .18
Main Wind Resisting System - Wood Framing with exterior sheathing
Building frame and components designed based on loads from ASCE 7- 16
Floor live Loads - 60 psf
Corridor live loads = 100 psf
Floor dead load - 10 psf
Roof live loads = 20 psf

SEISMIC
Site Class D
Risk Category II
Ss = .11
S1 = .056
I = 1.00
Design Category A

Design Load Bearing of Soils - 1500 PSF

CREATIVE DENTAL OFFICE
1120 W. 21ST AVE
COVINGTON, LA 70433

GENERAL NOTES:

1. Thresholds shall be no more than 1/2" in height and shall be beveled if more than 1/4". All ground and floor surfaces shall be non-slip.
2. Dimensions are to the centerline or face of studs, center line of columns, or face of vinyl.
3. Contractor to verify all site conditions and building location prior to construction.
4. Materials shall be new and U.L. listed.
5. No work shall be concealed until approved by local inspectors.
6. Construction shall comply with all parish, state and local codes.
7. Contractor to guarantee work for one year.
8. Notify District Fire Inspectorfor all completed fire walls before any construction that would conceal the fire walls.
9. Provide detailed cut sheets of the fire penetration sealing product to the inspector.
10. LIGHTING @ EXTERIOR DOORS
NFPA 101:12.2.8 and IBC 1006 Provide illumination of means of egress in accordance with 101:7.8 and IBC 1006, including exit discharge (EXTERIOR).

NFPA 101:12.2.9 and IBC 1006.3 & 1006.4 Provide emergency lighting according to 101:7.9 and IBC 1006, including exit discharge (EXTERIOR).

11. EXTERIOR DOORS
NFPA 101:7.2.1.3 and IBC 1008.1.5 through 1008.1.7 Provide level landings outside exterior doors that are within 1/2" of the interior finish floor elevation.

12. NFPA 101:7.2.1.5 and IBC 1008.1.9 Locks on doors in means of egress shall not require the use of a key, special device or special knowledge to open in the direction of egress.

13. ADA RESTROOMS AND SINKS (with ADA Accessibility Guidelines Sections Referenced)
Provide a clearance around the water closet that complies with Figure 604.3.1. (NOTE: As per 604.3.2 No other fixtures or obstructions shall be located within the required water closet clearance.)

- 606.1 Lavatories in toilet rooms and breakroom/conference room sinks shall comply with the following:
 1. 606.2 Provide a clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.
 2. 606.3 Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches maximum above the finish floor or ground.
 3. 606.4 and 309 Controls for faucets shall not require tight grasping, pinching, or twisting of the wrist.
 4. 606.5 Water supply and drain pipes shall be insulated or covered.

- 404.2.7 Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Hardware shall not require tight grasping, tight pinching, or twisting of the wrist to operate.

- 213.1 ALL toilet rooms and bathing rooms shall be accessible and in compliance with Chapter 6.

DESIGN CRITERIA

- 2021 INTERNATIONAL BUILDING CODE
- 2015 NFPA 101
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2020 NATIONAL ELECTRIC CODE

14. DOORS

NFPA 101:7.2.1.5.9 and IBC 1008.1.94 through 1008.1.9.5 Doors shall be openable with ONLY one releasing operation. A two-step release, such as a knob and an independent slide bolt, is NOT acceptable.

15. INSULATION

LAC 55:305 Insulation and insulation assemblies shall meet the requirements of Section 720, International Building Code, 2015 Edition.

- a) Concealed and exposed insulation shall have a flame spread of 0-25 and a smoke developed of 0-450 in accordance with IBC 719.
- b) Cellulose fiber thermal insulation shall meet the requirements of paragraph IBC 719.
- c) Foam plastic insulation shall meet the requirements of IBC 719.
- d) Thermal barriers shall protect foam plastic insulation in accordance with IBC 2603.4.
- e) Ignition barriers shall protect foam plastic insulation used in attics or crawl spaces where entry is made only for service of utilities in accordance with IBC 2603.4.1.6.

16. INTERIOR WALLS & CEILINGS - NFPA 101:38.3.3 Interior walls and ceilings shall have a flame spread of 0-200 and a smoke development rating of 0-450.

17. UTILITIES NFPA 101:38.5.1 Utilities shall comply with the provisions of Section 9.1.

18. HVAC - HVAC system shall be constructed in accordance with NFPA 101:9.2.

19. ELECTRICAL WORK - Compliance with the 2020 NFPA 70, National Electrical Code (NEC), is mandated by RS 40:1730.28.A(7). Contact the local Building Official of the applicable local political subdivision or a Louisiana State Uniform Construction Code Council registered third-party provider to verify plan review and inspection requirements of the proposed electrical work.

20. FIRE EXTINGUISHERS

NFPA 10:6.2.1.2 Provide portable fire extinguishers within the following travel distances; rectilinear route measure:

- a) Travel distance to a fire extinguisher shall not exceed 75 feet for Class A, C and D fires. See Table 10:6.2.1.1 and NFPA 10:6.4 and 10:6.5.

- b) Travel distance to a fire extinguisher shall not exceed 30 feet for Class B fires (liquids). (May be increased to 50 feet for Light (low) Hazard fires with 10-B extinguisher, for Ordinary (moderate) Hazard fires with 20-B extinguisher, and for Extra (high) Hazard fires with 80-B extinguisher). See Table 10:6.3.1.1.

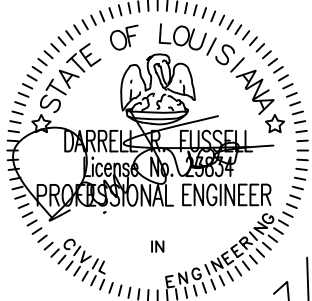
For classification of Hazards see NFPA 10:5.4.1.1 (Light/Low), 10:5.4.1.2 (Ordinary/Moderate): 10:5.4.1.3 (Extra/High).

NFPA 10:6.1.3.3.1 Fire extinguishers shall not be obstructed or obscured from view.

NFPA 10:6.1.3.1 Fire extinguishers shall be conspicuously located where they will be readily accessible and immediately available in the event of fire. Preferably they shall be located along normal paths of travel, including exits from areas.

NFPA 10:6.1.3.8 Top of fire extinguisher, having a gross weight less than 40 lb., shall be not more than 5 feet above the floor; if gross weight 40 lbs. or greater, 3-1/2 feet above the floor.

21. STAIR CONSTRUCTION- Stairs and ramps shall have handrails on both sides and shall be provided within 30 inches of all portions of the required egress width of stair. Handrails shall be no lower than 34" nor higher than 38" above the leading edge of the tread surface. Guard rails shall be at least 42" high and are required when a change in elevation exceeds 30".



3/27/26

Issue	Description	Date
A	Fire Marshal Submittal	2-4-26
B	Revised	3-3-26
C	Revised	3-27-26



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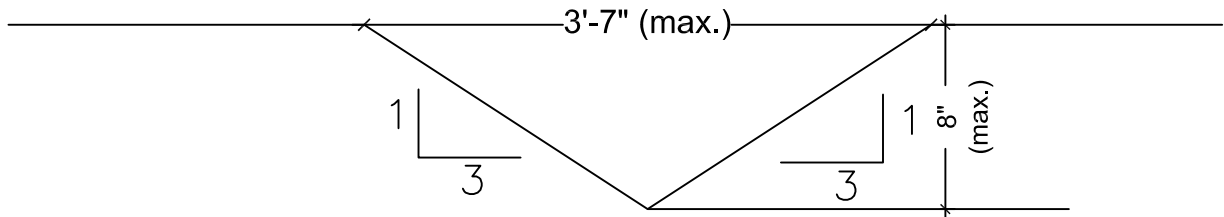
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DARRELL FUSSELL, P.E.
darfuss123@gmail.com
PO BOX 881
Madisonville, LA 70447
Phone: 985-237-3908

PARKING CALCULATION

MEDICAL OFFICE - 1 SPACE / 200 S.F.
GROSS FLOOR AREA.

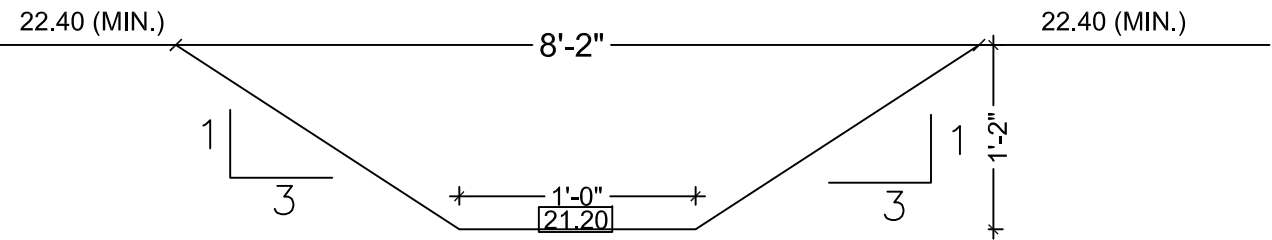
PARKING REQD. = 3122 / 200 = 16 SPACES

23 PARKING SPACES PROVIDED -
2 ADA SPACES PROVIDED



TYPICAL SWALE SECTION

NOT TO SCALE



DETENTION AREA SECTION

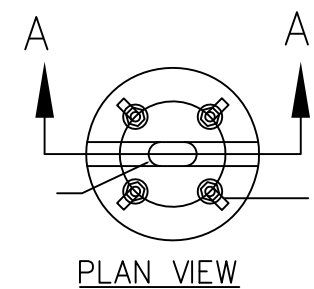
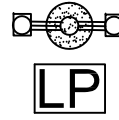
NOT TO SCALE

MEANS OF EGRESS NOTES:

1. (1003.4 FLOOR SURFACE) WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP RESISTANT SURFACE AND BE SECURELY ATTACHED.
2. (1003.5 ELEVATION CHANGE) WHERE CHANGES IN ELEVATION OF LESS THAN 12 INCHES (305 mm) EXIST IN THE MEANS OF EGRESS, SLOPED SURFACES SHALL BE USED.
3. (1006.1 ILLUMINATION REQUIRED) THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
4. (1006.2 ILLUMINATION LEVEL) THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOTCANDLE (11 LUX) AT THE WALKING SURFACE.
5. (1006.3 EMERGENCY POWER FOR ILLUMINATION) THE POWER SUPPLY FOR THE MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY.
6. 1008.1.5 (FLOOR ELEVATION) THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDING SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE.)
7. (1008.1.6 LANDINGS AT DOORS) LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STAIRWAY ON THE DOOR, WHICHEVER IS GREATER.
8. (1008.1.7 THRESHOLDS) THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 INCH (12.7 mm) ABOVE THE FINISHED FLOOR LANDING. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/2 INCH (6.4 mm) AT DOORWAYS SHALL BE BEVELED.

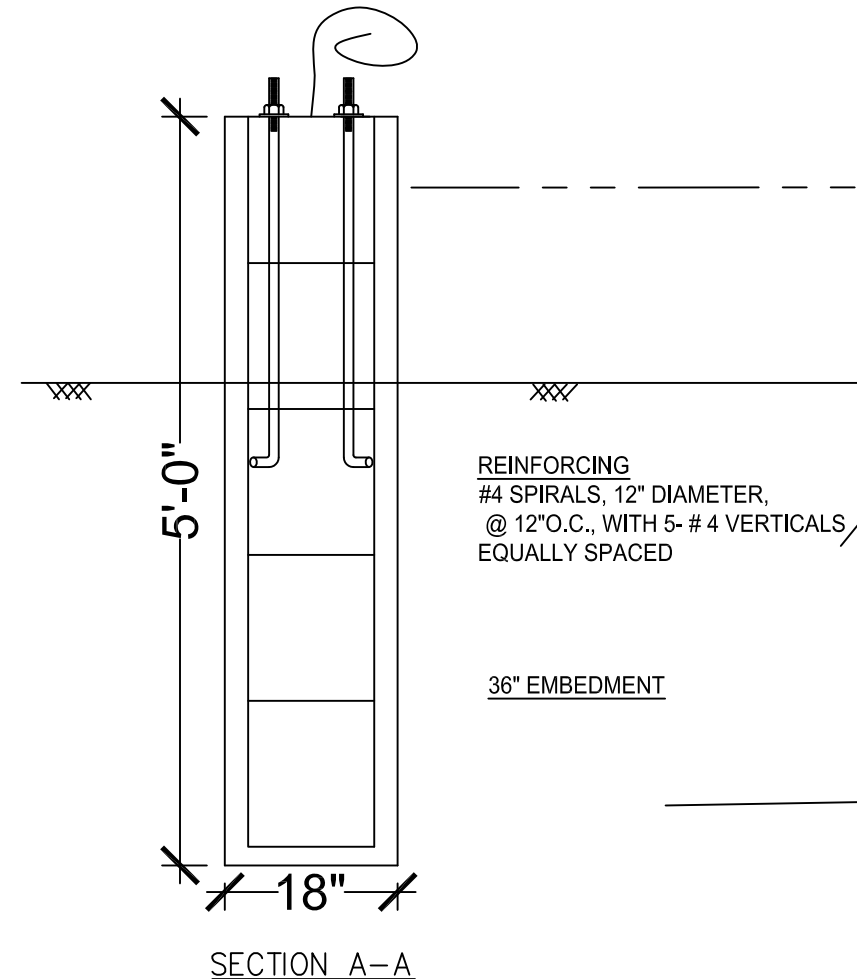
OUTDOOR LIGHTING NOTES

- LIGHTING SHALL PROVIDE TOTAL FOOTCANDLES MEASURED AT THREE FEET ABOVE GROUND LEVEL NOT EXCEED TWO FOOTCANDLES AT THE PROPERTY LINE.
- LIGHTING FIXTURES WILL BE "FULLY SHIELDED"
- THE LIGHTS WILL BE KEYSTONE TECHNOLOGIES KT-FLED140PS-R2D-UNIV-8CSB-VDIM-100W
- LUMEN OUTPUT PER LAMP - 13500
- WATTAGE - 100 WATT



CONCRETE NOTES:

1. USE CONCRETE BRICK SUPPORTS TO MAINTAIN REINFORCING CLEARANCES. DO NOT USE CMU OR FACE BRICK.
2. FOUNDATION DESIGN BASED ON A-4 FILL DIRT COMPACTED TO 95% DENSITY (ASTM D-698). FILL PLACED @ 8" MAX. LIFTS.
3. ALL CONCRETE SHALL DEVELOP 3,000 PSI COMPRESSIVE STRENGTH @ 28 DAYS. PLACE CONCRETE WITH MAXIMUM SLUMP OF 6". PROVIDE SLUMP TEST AND CYLINDERS AT BEGINNING AND MIDPOINT OF POUR.
4. GRADE 40 DEFORMED REINFORCING.
5. 2" CLEARANCE FOR REBAR SIDES, 3" TOP AND BOTTOM.



LIGHT POLE FOUNDATION

NTS

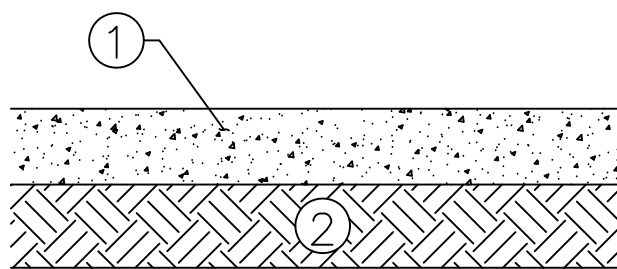
LEGEND	
	EXISTING GRADE
	REQUIRED GRADE
	DIRECTION OF FLOW
	SDR 35 PVC PIPE
	ROOF DRAIN
	PARKING BUMPER
	5'x5' LEVEL LANDING

- ① SIDEWALK PAVING
4,000 PSI, 4" CONCRETE WITH 4x4,
W 2.9 x W 2.9 WWF @ CENTERLINE

ALL ROADWAY PAVING
4,000 PSI, 7" CONCRETE WITH 6x12,
W 7.5 x W 1.4 WWF @ CENTERLINE.

PARKING SPOTS
4,000 PSI, 5" CONCRETE WITH 6x12,
W 7.5 x W 1.4 WWF @ CENTERLINE.

- ② A-4 MATERIAL, 12" MIN. COMPACTED TO
95% OPTIMUM DENSITY D-698



PAVING SECTION

NOT TO SCALE

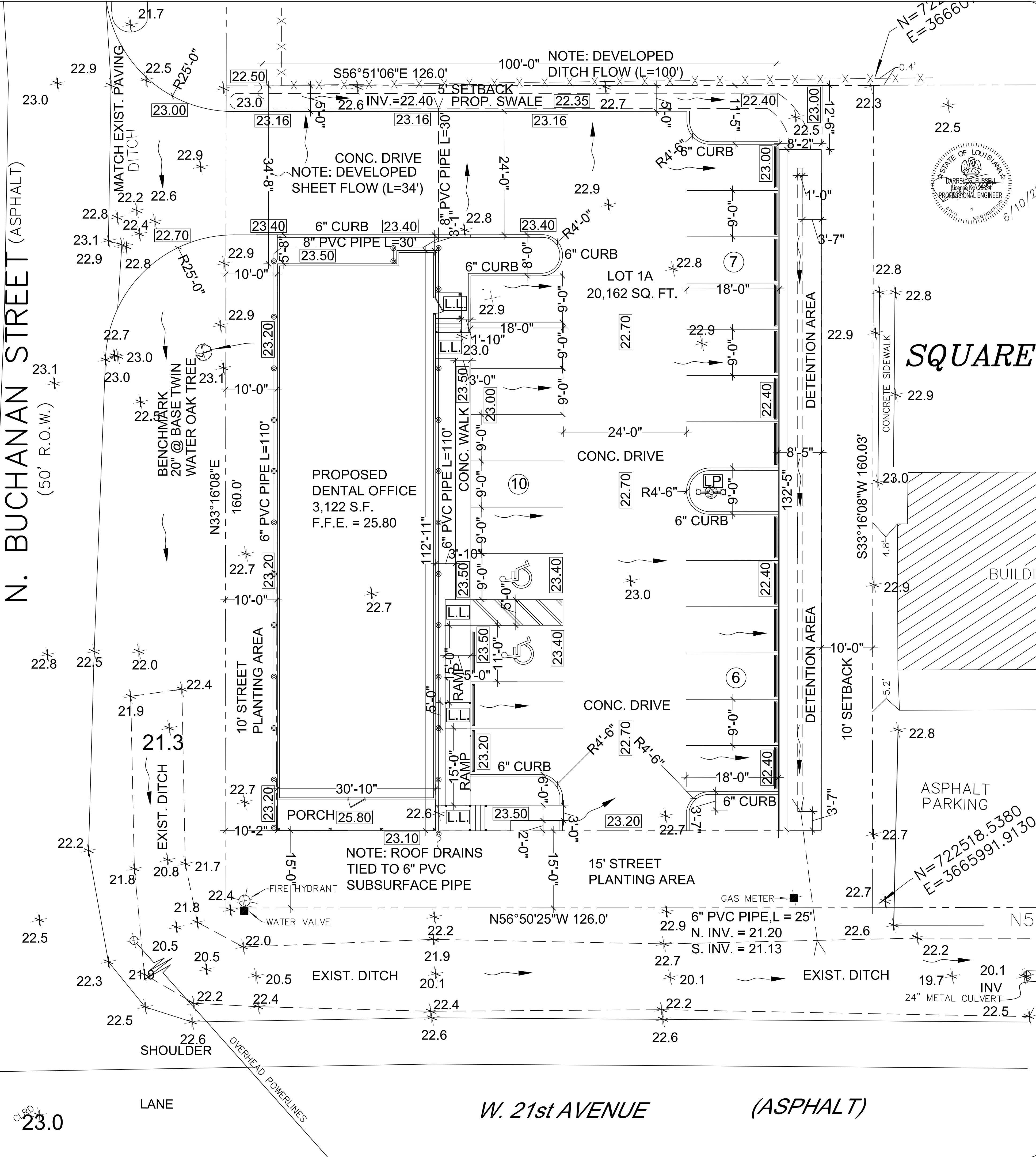
N. BUCHANAN STREET (ASPHALT)

(50' R.O.W.)

23.0

LANE

W. 21st AVENUE (ASPHALT)



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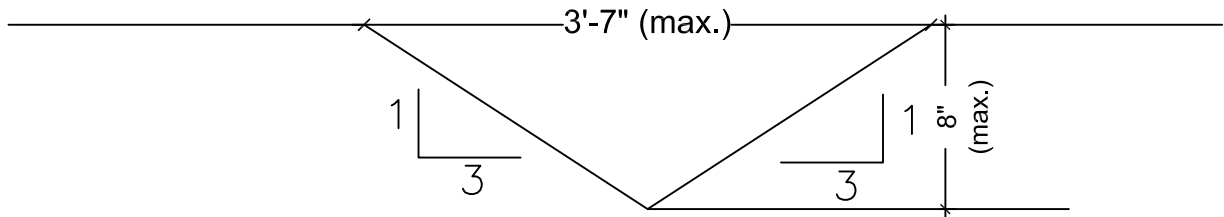
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PARKING CALCULATION

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GROSS FLOOR AREA.

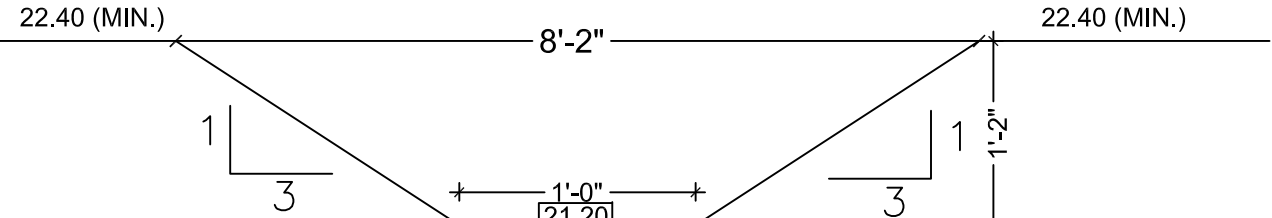
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2 ADA SPACES PROVIDED



TYPICAL SWALE SECTION

NOT TO SCALE



DETENTION AREA SECTION

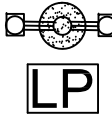
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OUTDOOR LIGHTING NOTES

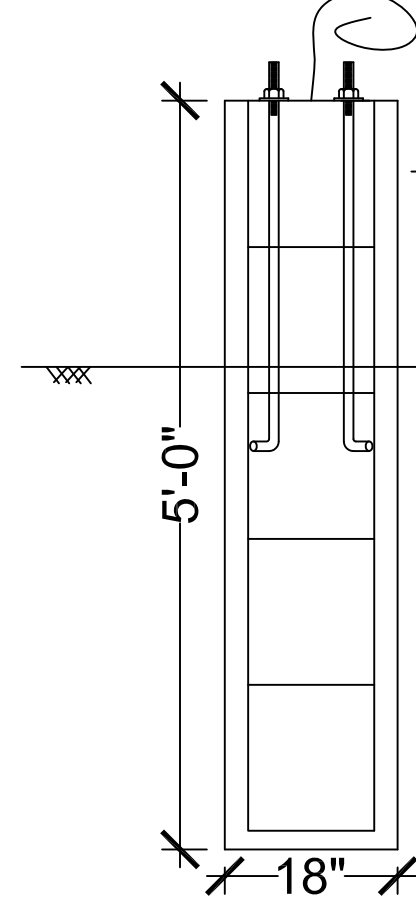
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- THE LIGHTS WILL BE KEYSTONE TECHNOLOGIES KT-FLED140PS-R2D-UNIV-8CSB-VDIM-100W
- LUMEN OUTPUT PER LAMP - 13500
- WATTAGE - 100 WATT



FULLY SHIELDED
LIGHT FIXTURE TO
BE 20' ABOVE GROUND

CONCRETE NOTES:

1. USE CONCRETE BRICK SUPPORTS TO MAINTAIN REINFORCING CLEARANCES. DO NOT USE CMU OR FACE BRICK.
2. FOUNDATION DESIGN BASED ON A-4 FILL DIRT COMPACTED TO 95% DENSITY (ASTM D-698). FILL PLACED @ 8" MAX. LIFTS.
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4. GRADE 40 DEFORMED REINFORCING.
5. 2" CLEARANCE FOR REBAR SIDES, 3" TOP AND BOTTOM.



SECTION A-A

LIGHT POLE FOUNDATION
NTS

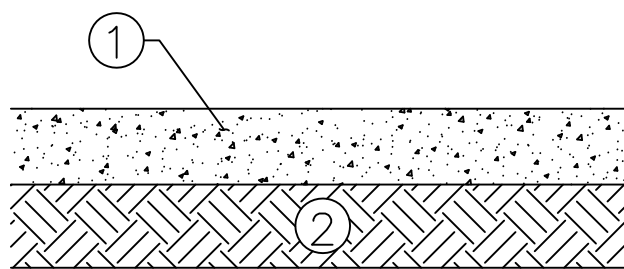
LEGEND	
	EXISTING GRADE
	REQUIRED GRADE
	DIRECTION OF FLOW
	SDR 35 PVC PIPE
	ROOF DRAIN
	PARKING BUMPER
	5'x5' LEVEL LANDING

- ① SIDEWALK PAVING
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W 2.9 x W 2.9 WWF @ CENTERLINE

ALL ROADWAY PAVING
4,000 PSI, 7" CONCRETE WITH 6x12,
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4,000 PSI, 5" CONCRETE WITH 6x12,
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PAVING SECTION

NOT TO SCALE

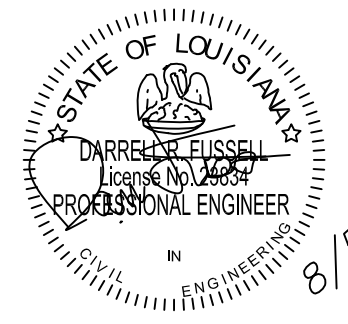
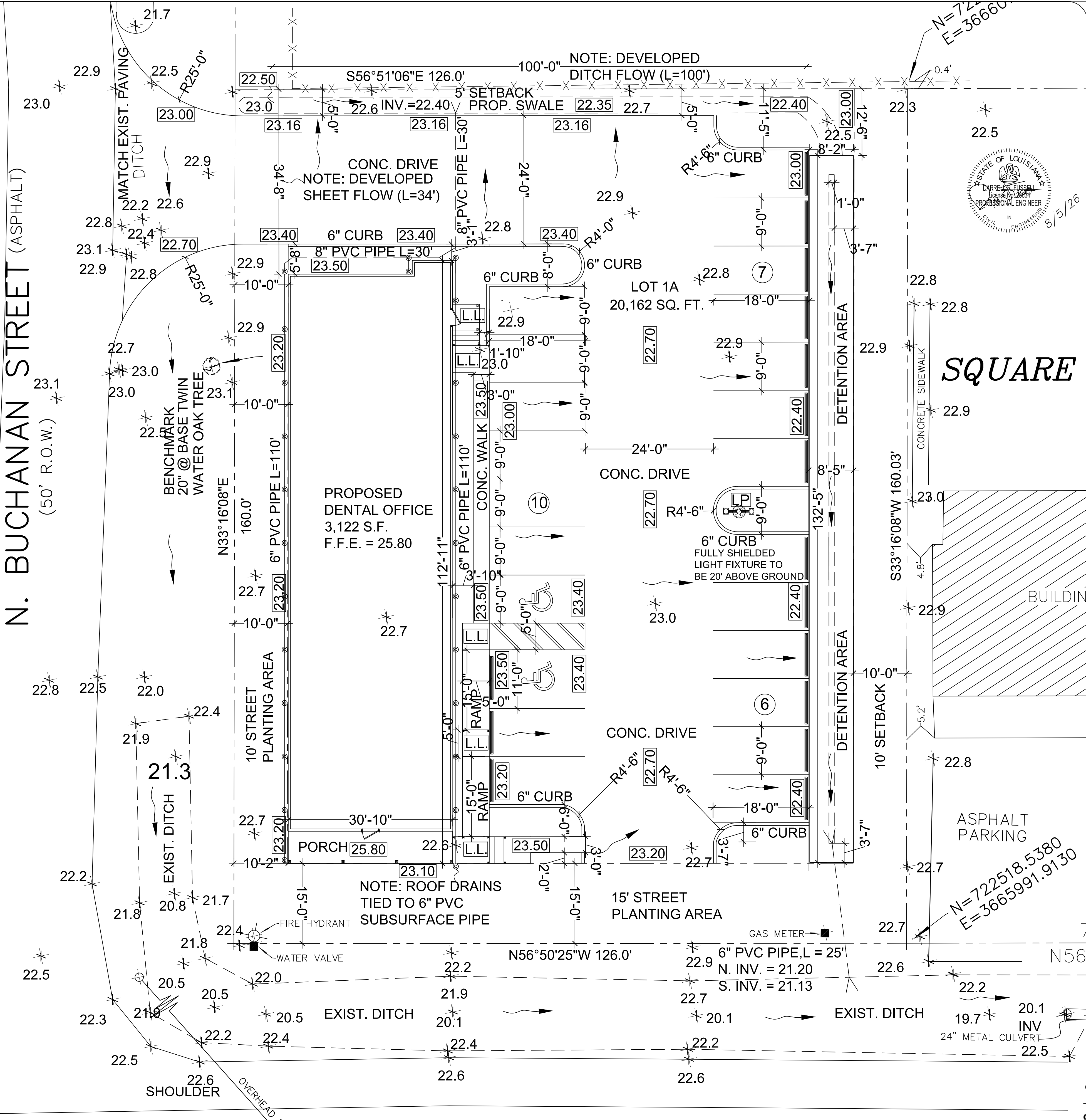
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LANE

W. 21st AVENUE (ASPHALT)



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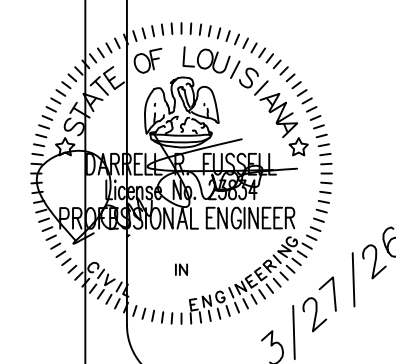
ARROW ENGINEERING
& CONSULTING
DARRELL FUSSELL, P.E.
darfuss123@gmail.com

PO BOX 881
Madisonville, LA 70447
Phone: 985-237-3908

C1



Issue	Description	Date
A	FOR SFM REVIEW	2-5-26
B	REVISED	3-27-26



CREATIVE DENTAL OFFICE
W. 1120 W. 21ST AVE.
COVINGTON, LA 70433

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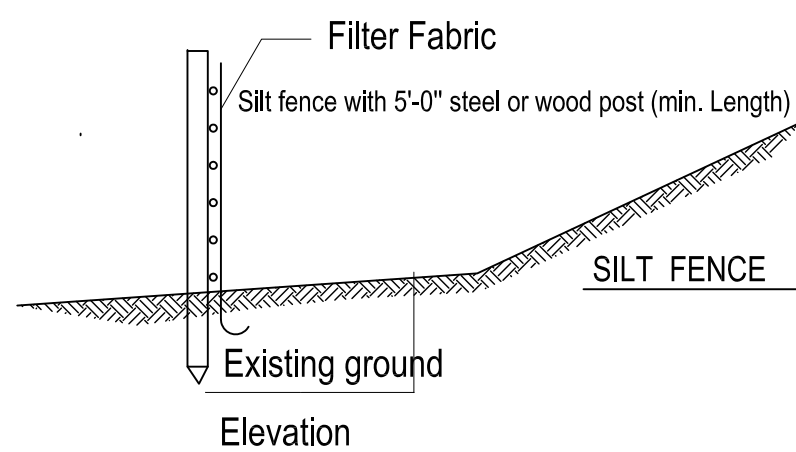
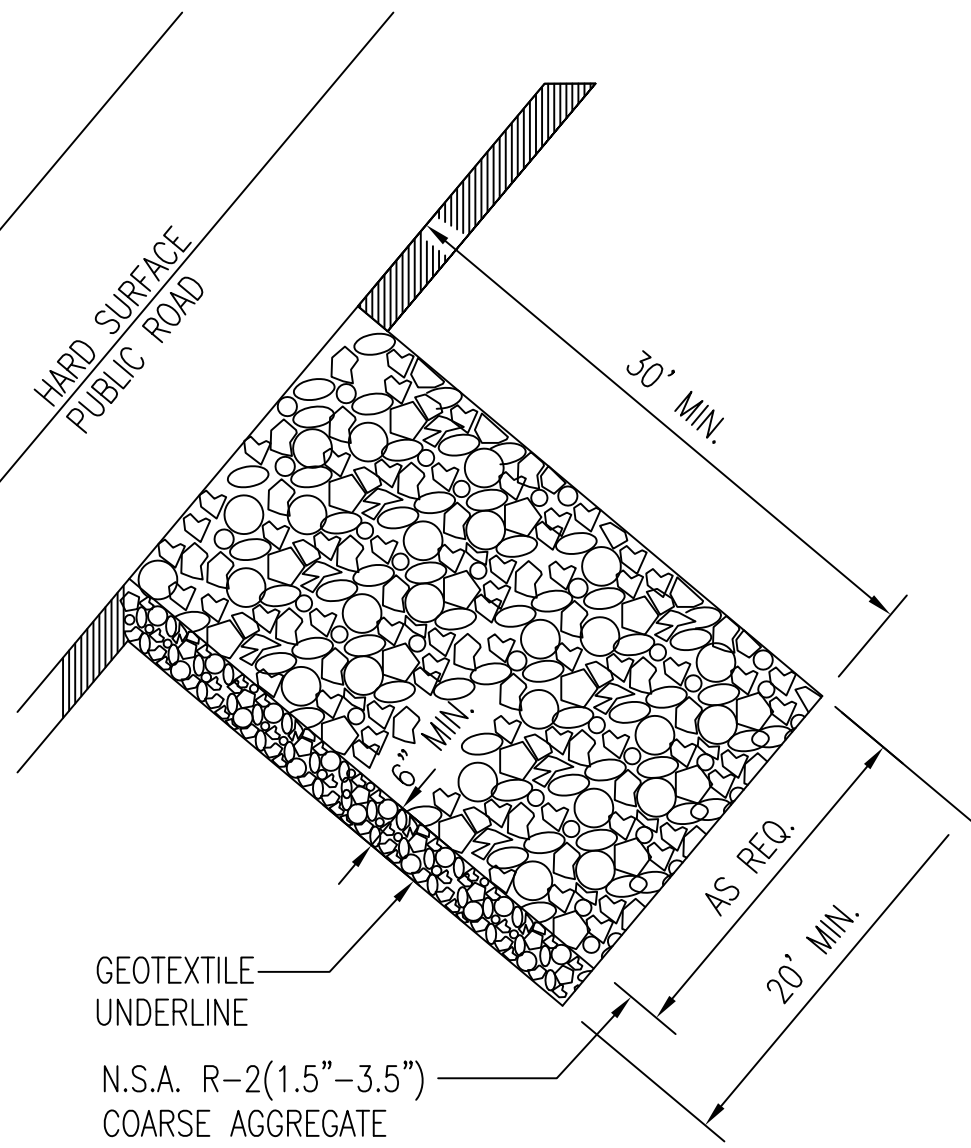
Madisonville, LA 70447

Phone: 085-237-3908

C2

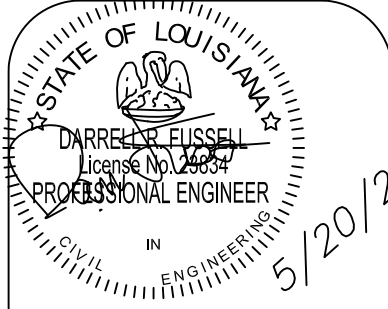
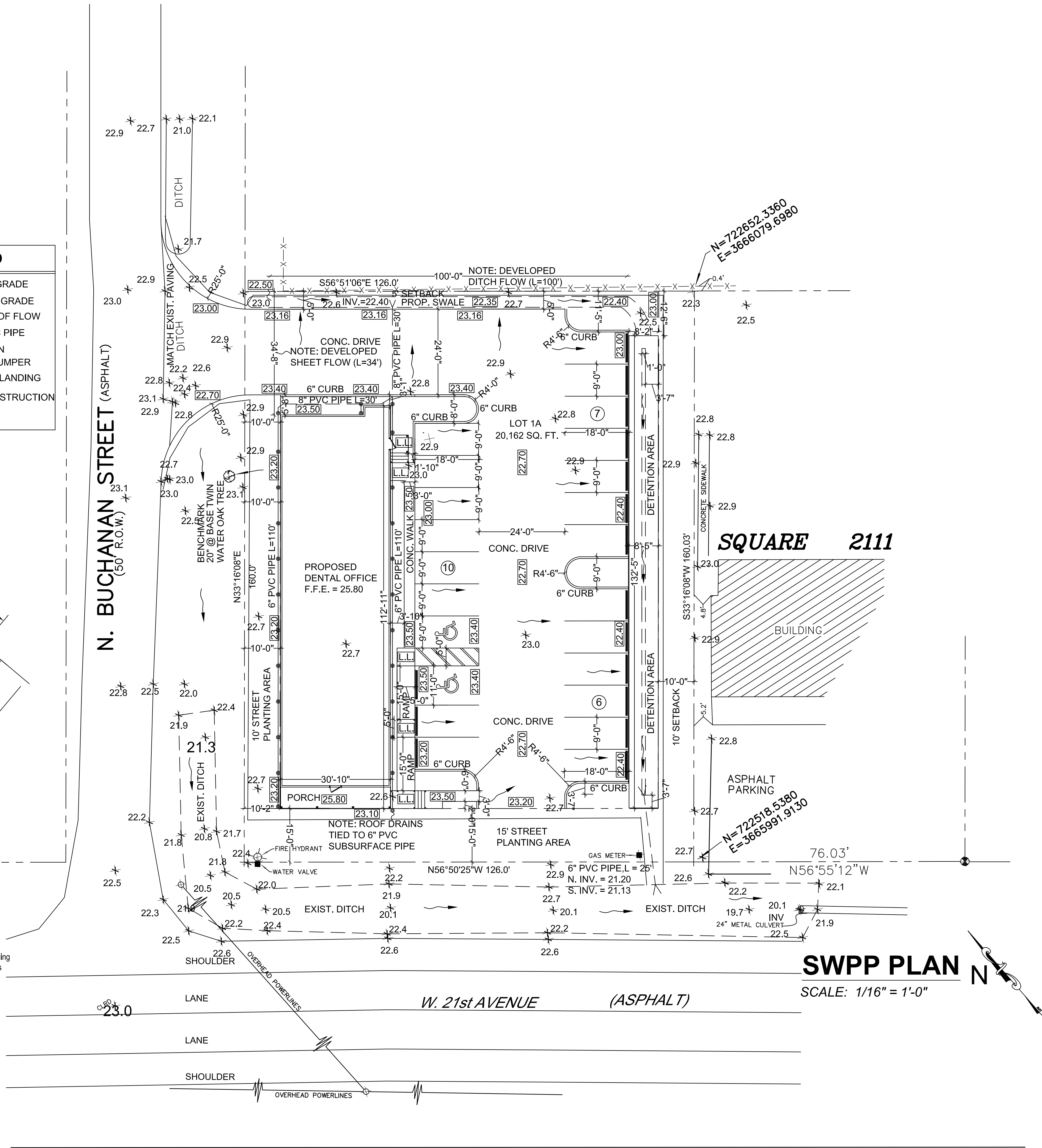
SOIL EROSION AND
SEDIMENT CONTROL
NOTES

1. SITE MUST BE SEEDED UPON COMPLETION OF GRADING. IF GRASS PLANTING HAS NOT BECOME ESTABLISHED WITHIN FOUR (4) WEEKS OF PLANTING OR INSTALLATION, THE LOCAL JURISDICTION MAY REQUIRE THAT THE SITE BE RESEEDDED.
2. TECHNIQUES SHALL BE EMPLOYED TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE ON TO ADJACENT PROPERTIES.
3. ALL DRAINAGE SWALES MUST BE SEEDED.
4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
6. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
7. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.



- NOTES:
1. Filter to be buried Approximately 6 inches into the ground.
 2. Fabric to be installed per manufacturer recommendations.
 3. Construct silt fence around perimeter of site including pond. Maintain until work is complete and grass is established

LEGEND	
	EXISTING GRADE
	REQUIRED GRADE
	DIRECTION OF FLOW
	SDR 35 PVC PIPE
	ROOF DRAIN
	PARKING BUMPER
	5'x5' LEVEL LANDING
	STONE CONSTRUCTION ENTRANCE
	SILT FENCE



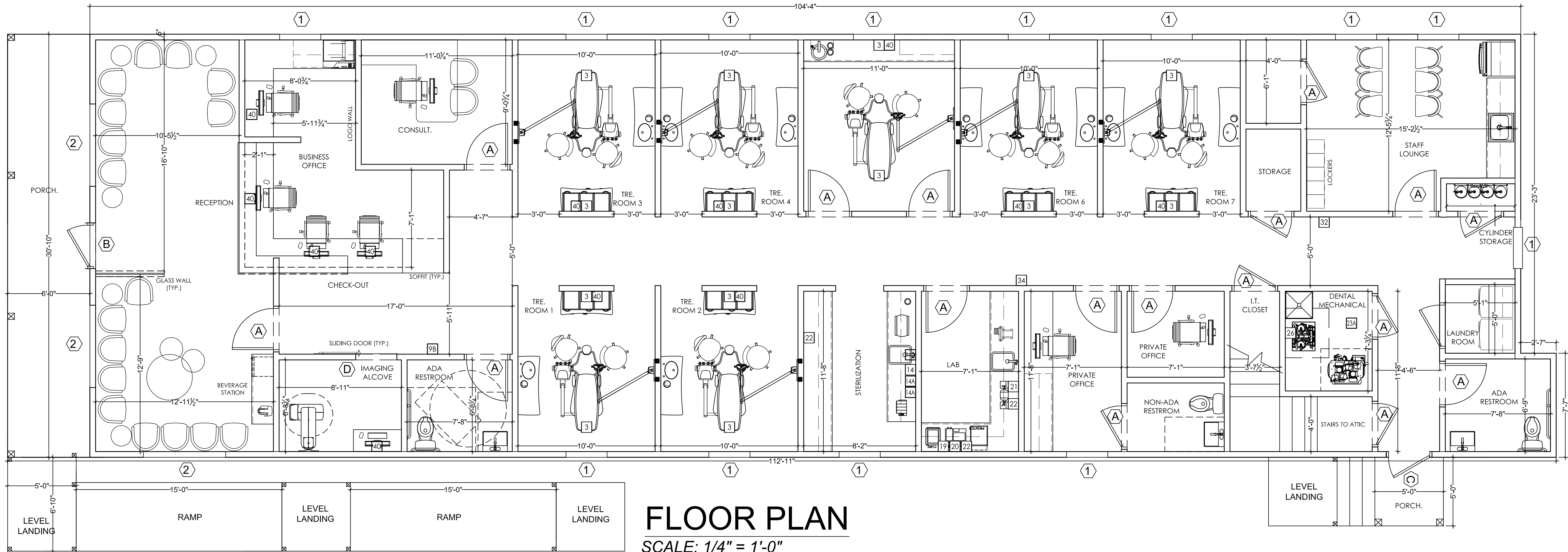
Date	Description	Issue
1-29-26	FOR REVIEW	A
3-27-26	REVISED	B
5-20-26	REVISED	C

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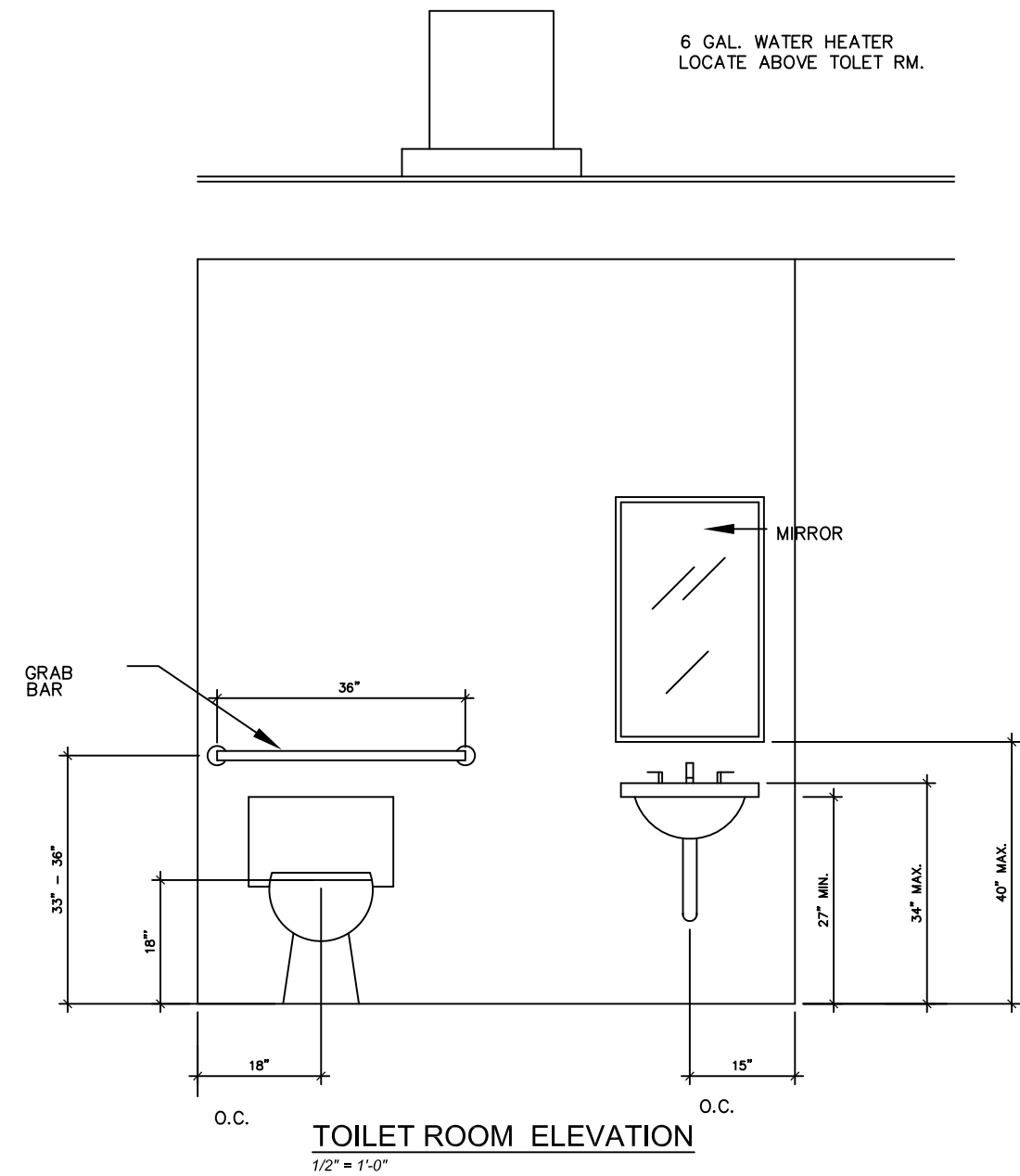
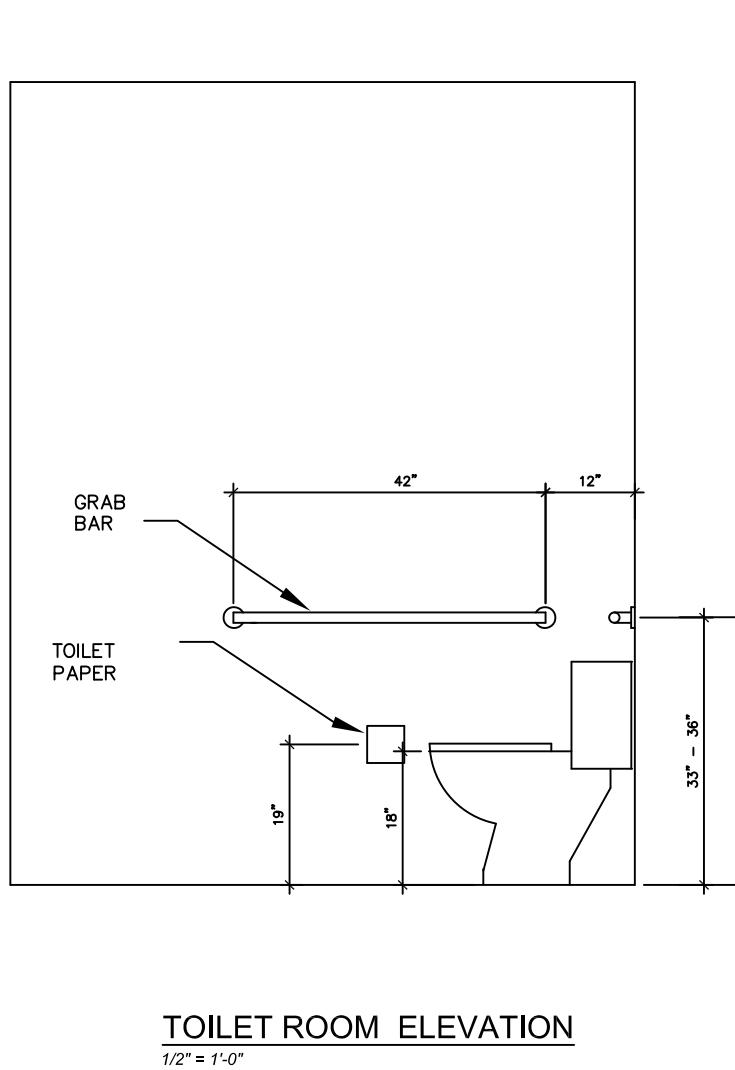
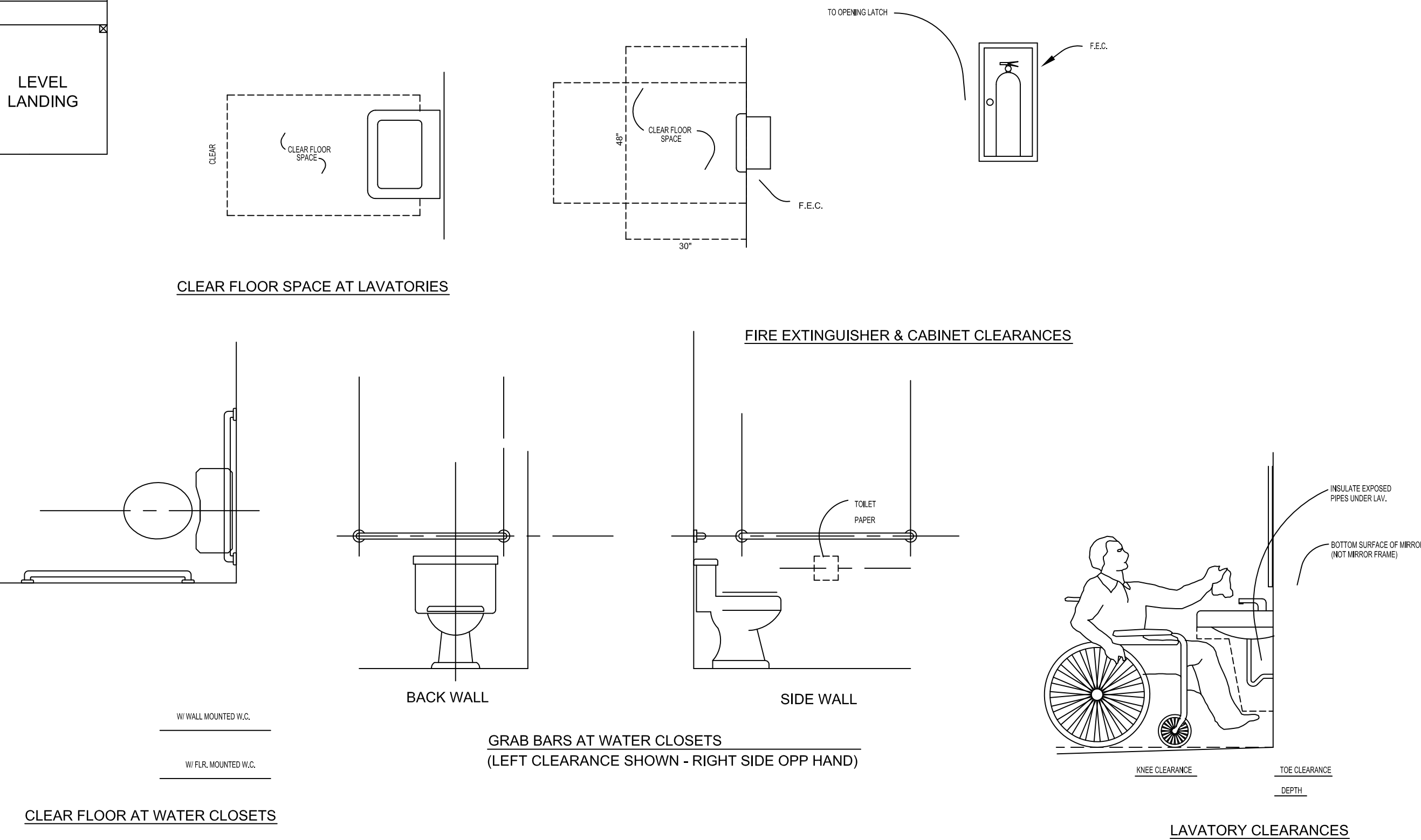
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C3



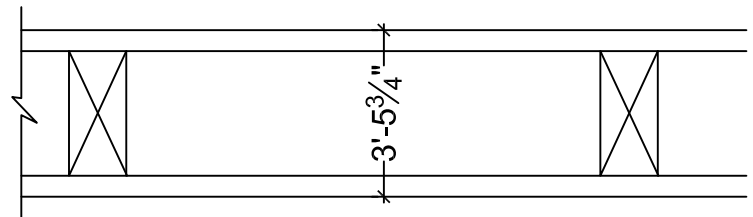
FLOOR PLAN
SCALE: 1/4" = 1'-0"



ACCESSIBILITY REQUIREMENTS

FIREWALL DETAIL UL U305

1 HOUR



GYPSUM BOARD: 1 LAYER 5/8 IN. THICK GYPSUM BOARD APPLIED HORIZONTALLY.
STUDS: 2x6 SYP, SPACED @ 16 IN. O.C.
INSULATION: OPTIONAL

DOOR SCHEDULE				
A	3'-0" x 7'-0"	WOOD	INTERIOR	LEVER LOCK INSIDE ALWAYS OPEN
B	6'-0" x 7'-0"	1/2 LITE GLASS ENTRY	EXTERIOR	PRIVACY LOCK INSIDE ALWAYS OPEN
C	3'-0" x 7'-0"	METAL	EXTERIOR	PRIVACY LOCK INSIDE ALWAYS OPEN
D	3'-0" x 7'-0"	WOOD SLIDING	45 MIN FIRE RATED	SLIDING NO LOCK

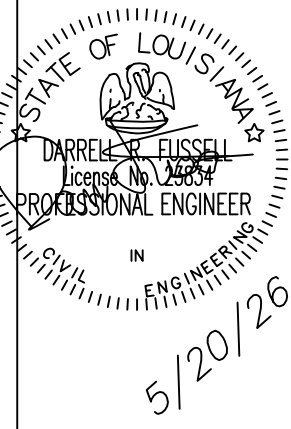
WINDOW SCHEDULE			
1	3'-0" x 5'-0"	METAL	OPERABLE
2	6'-0" x 5'-0"	METAL	NON - OPERABLE

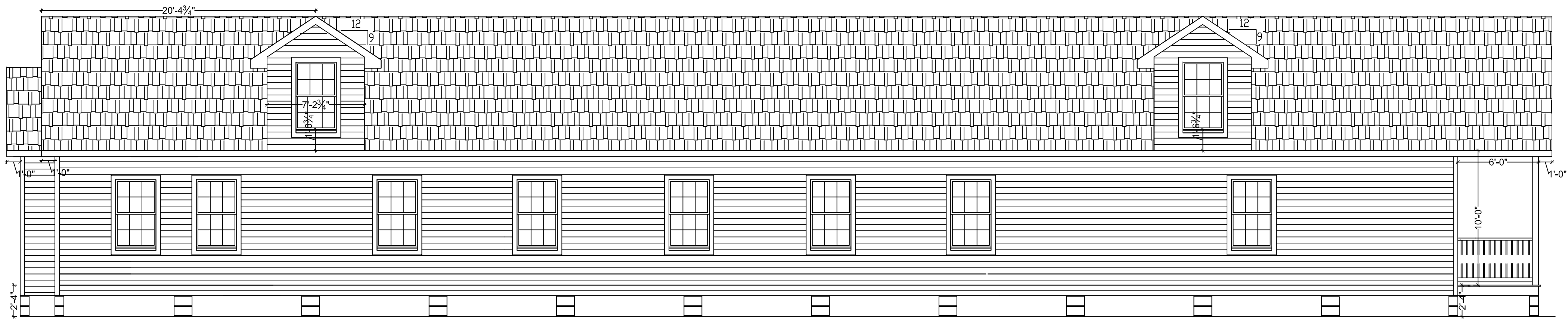
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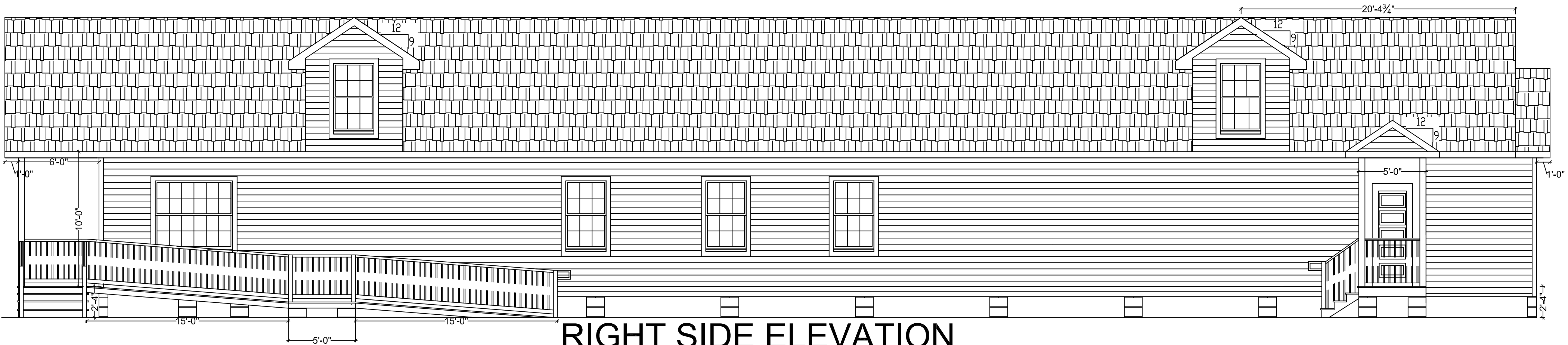
Date	1-29-26 3-27-26 5-20-26
FOR REVIEW	
REVIS	
Issue	A B C





LEFT SIDE ELEVATION

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



RIGHT SIDE ELEVATION

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



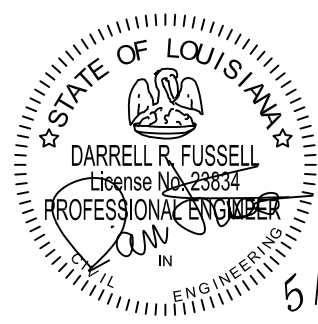
FRONT ELEVATION

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



REAR ELEVATION

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



5/20/26

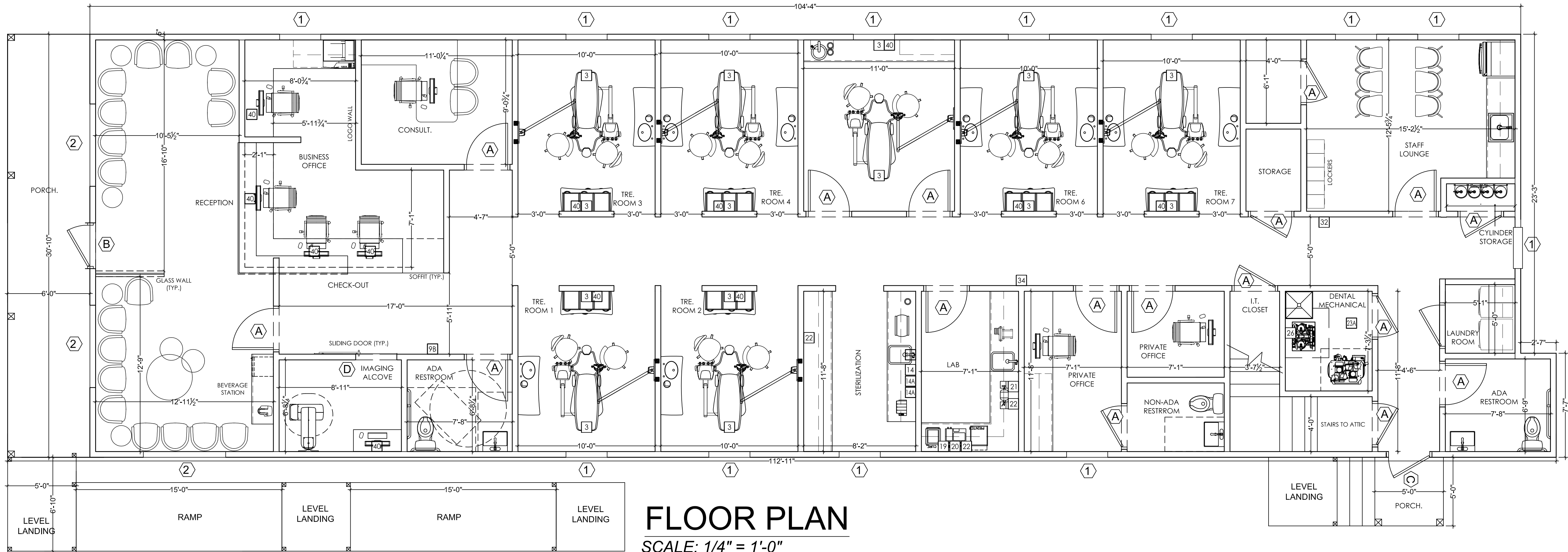
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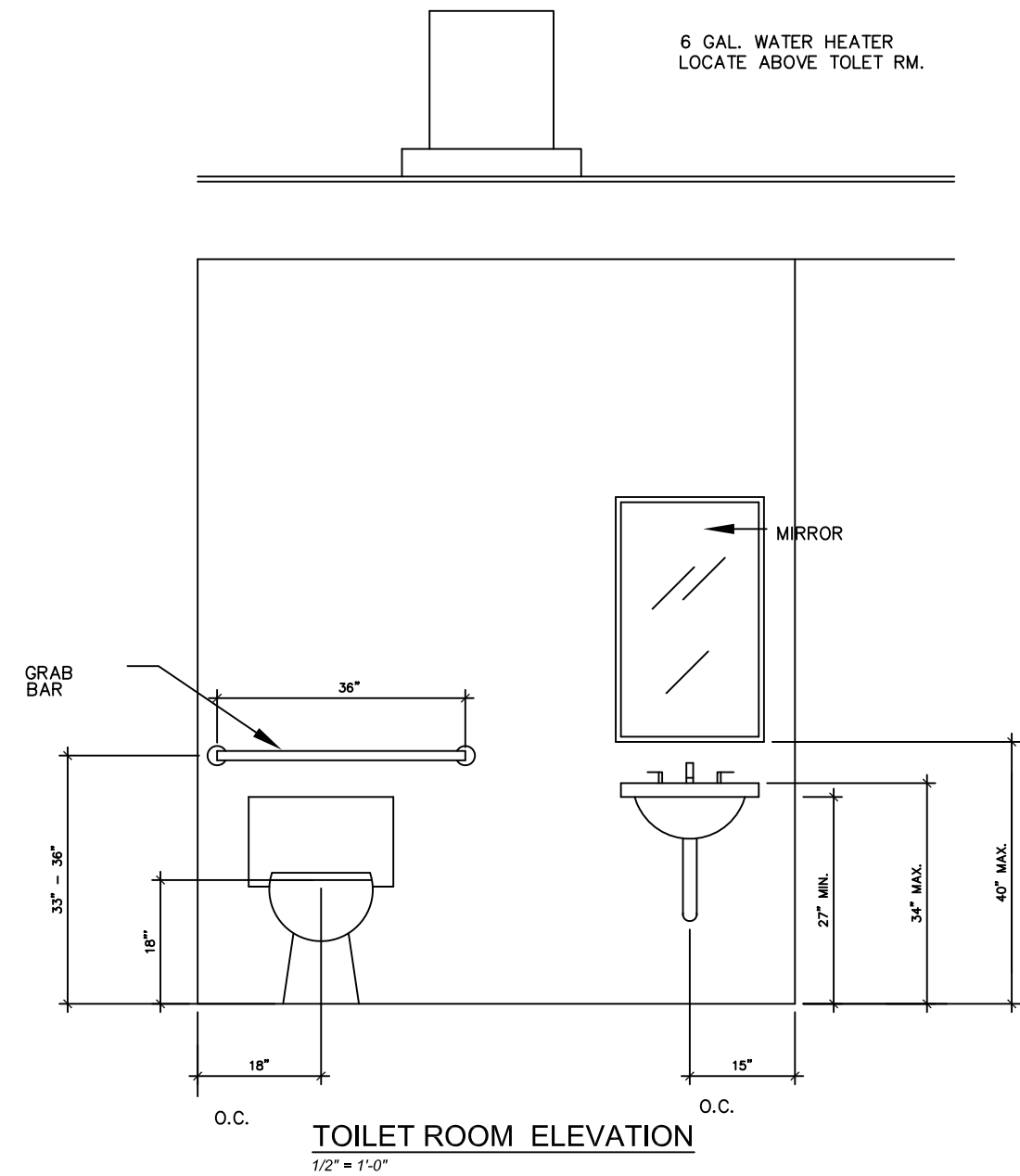
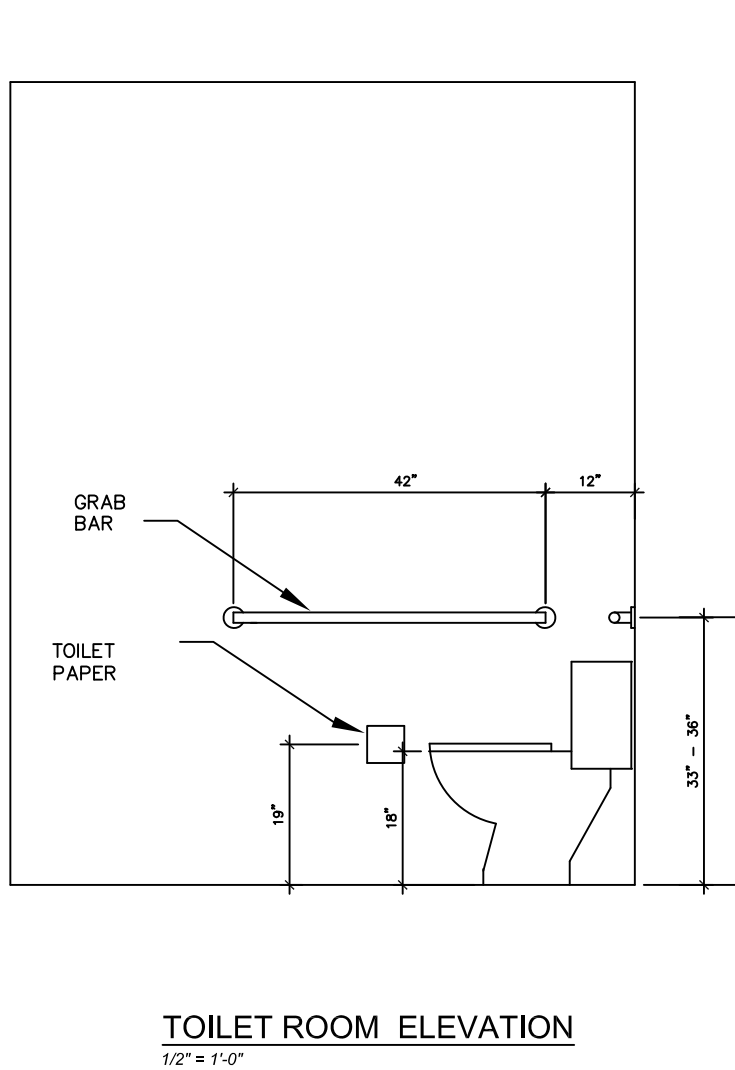
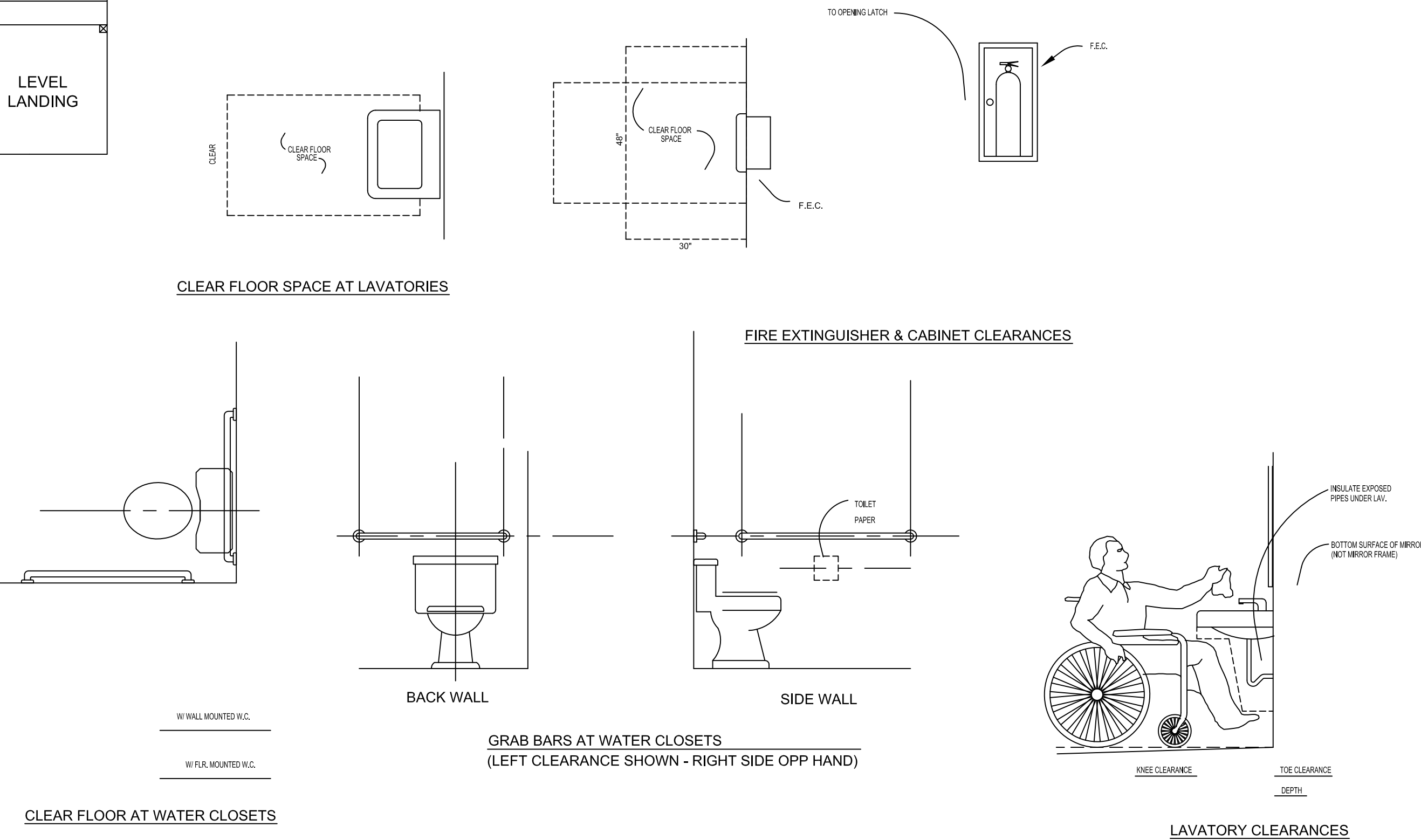
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Issue	Description	Date
A	FOR REVIEW	1-29-26
B	REVISED	3-27-26
C	REVISED	5-20-26



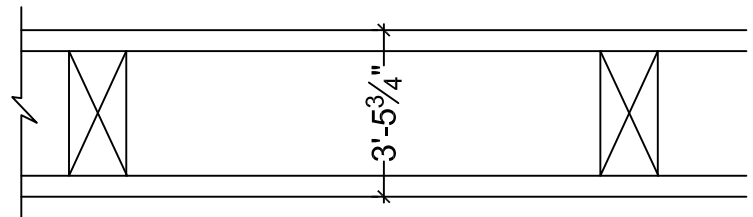
FLOOR PLAN
SCALE: 1/4" = 1'-0"



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FIREWALL DETAIL UL U305

1 HOUR



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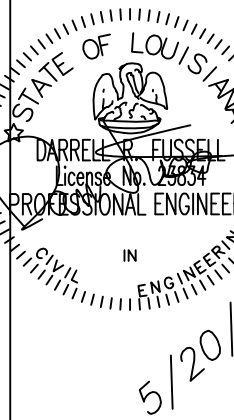
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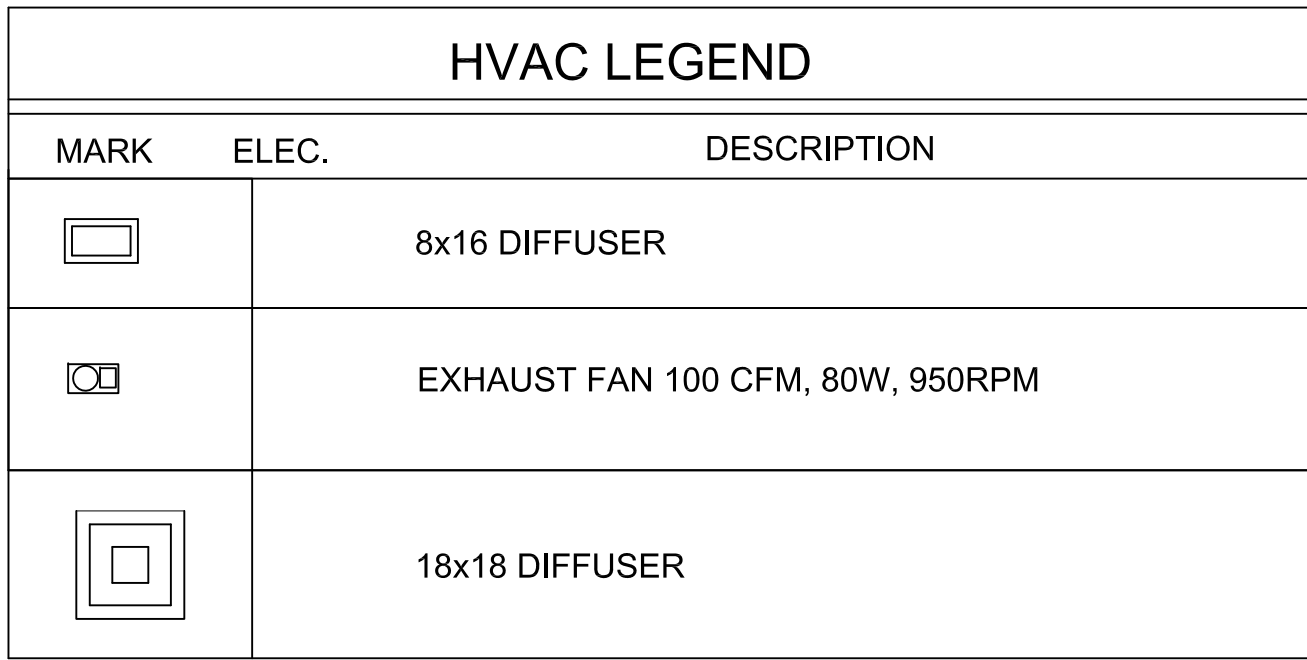
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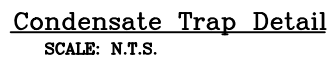
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FOR REVIEW	REVIS

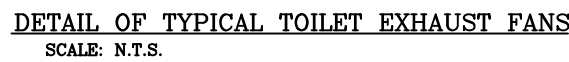




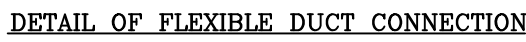
SCALE: $1/4" = 1'-0"$



- ① DRAIN PAN CONNECTION ON HVAC UNIT
- ② INSULATED DRAIN LINE SAME SIZE AS DRAIN PAN CONNECTION BUT NOT LESS THAN 3/4"
- ③ BREATHER CAP/ CLEANOUT
- ④ DEPTH OF SEAL AS REQUIRED TO OVERCOME OPERATING S.P.
- ⑤ PITCH DOWN TOWARDS DRAIN



- ① MAIN EXHAUST OR RETURN
- ② 1/4 W, 5" MINIMUM
- ③ PROVIDE VOLUME DAMPER (WHETHER SHOWN ON PLANS OR NOT)
- ④ BRANCH DUCT



THE BACK SIDE OF ALL DIFFUSERS SHALL BE INSULATED

1. HVAC System to be attic type with coil drain pan, built in drain and level switch.
2. The Contractor shall be responsible for field verifying all dimensions and locations prior to beginning of work.
2. The installer of mechanical systems shall coordinate with all other disciplines to avoid interference.
3. The contractor shall notify the architect/engineer of any discrepancies prior to beginning job.

Plans and diagrams are schematic only and should not be scaled.

equipment, and labor required for a complete and operational mechanical system. Mechanical Contractor shall refer to Architectural drawings for all scaled reference drawings.

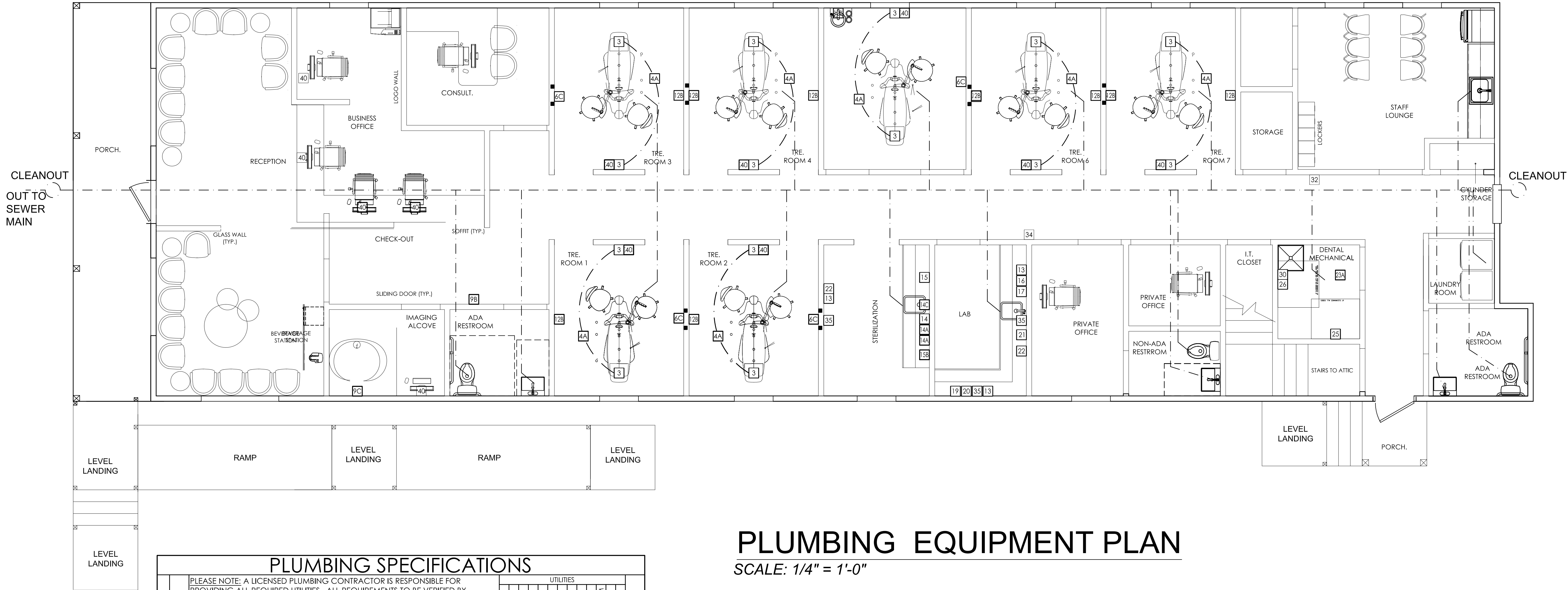
4. All rigid rectangular and round duct dimensions as well as flexible ducts shown are inside dimensions and represent the net airflow area of duct.
5. All ducts shall be insulated externally with 1-1/2", 1-1/2 lb. density fiberglass insulation. R Value for insulation shall be R-5 or greater for inside building ducts and R-8 or greater for outside building ducts. Adjust insulation thicknesses and/or densities to conform to this requirement.
6. Contractor to field route package hvac unit condensate lines to nearby drain or to outside of building (french drain).
6. Provide fire dampers where ducts penetrate fire resistant (treated for one or more hours) walls and ceilings and at all fresh air intakes. See exceptions referenced in International Mechanical Code.
7. All dampers may not be shown on plans for clarity purposes. Contractor to factor in additional dampers for fire rated walls and ceilings not shown on plans.
7. All offsets and turns of ducts greater than 30 degrees to have single thickness turning vanes (rectangular ducts).
8. All individual return air and fresh air ducts shall have manual dampers for adjusting flow rates.
9. All taps from main ducts to ceiling diffusers and wall registers shall have manual dampers near main duct tap. See spin damper detail.
10. Mechanical Contractor to coordinate with electrical contractor with regards to final location of ceiling diffusers, ceiling lights, and ceiling fans. Mechanical Contractor to adjust location of diffusers as needed to avoid interference with lights and fans except in cases where diffuser throws will be adversely affected.
11. All work shall be performed in accordance with the requirements of the applicable parish, all applicable codes, standards, and established practices of the industry.
12. Install diffusers, registers, and grilles according NFPA90A.
13. HVAC Air distribution systems to have airflows balanced within the distribution system, including submain, branches, and terminals to indicated quantities as shown on the drawings.
14. Each HVAC unit shall come equipped with a heating and cooling stage thermostat including subbase consisting of manual system switch (off-heat-auto-cool). Fan switch (auto-on) thermostat to be solid state, programmable with occupant override and setback capabilities.
- In addition to thermostats, the control system should include all required accessories such as transformers, wires, relays, sensors, etc., to complete the working control. See schedule for additional requirements.
15. Provide fire dampers to be manually adjusted to cfm flowrate indicated on the equipment schedule.
16. Provide approved smoke detector in the return air stream of AHU units upstream of outside air entry and interlock with the unit control system to stop the fan in the event of detecting smoke in the system. Provide approved smoke detector in the main supply air duct prior to any branch duct connections. Smoke dampers are mandatory for systems with 2000 cfm flowrate or greater. Interlock with the unit control system to stop the fan in the event of detecting smoke in the system.
17. All outside air intakes shall be a minimum of 10 feet from any exhaust or vent.
18. All flexible ducts must be mechanically fastened and sealed to prevent leakage using duct mastic. The following locations must be sealed: all connections, supply and return air grilles, penetrations into plenum, etc., as identified in the Louisiana Energy Code.
20. All metal duct transverse and longitudinal seams must be sealed. Spiral Ducts do not require sealing. Various exterior duct sealant materials may be used to seal seams, however pressure-sensitive tape (duct tape) can be used as the primary sealant.
21. It is recommended that AHU unit blowers operate continuously during occupied periods.
22. Contractor shall balance A/C Systems to specified CFM in accordance with AABC.
23. Insulate all refrigeration lines and run same concealed in walls and attic (1/2" ARMAFLEX MINIMUM.)
24. Return air grill to have unit filters in rack w/ grill frame (locate as req'd).
25. Exhaust duct from each restroom, vent thru roof.
26. Use min. 1-1/2" ext. wrap fiberglass insulation on metal and flex-ducts.

plumbing contractor to provide drain to outside

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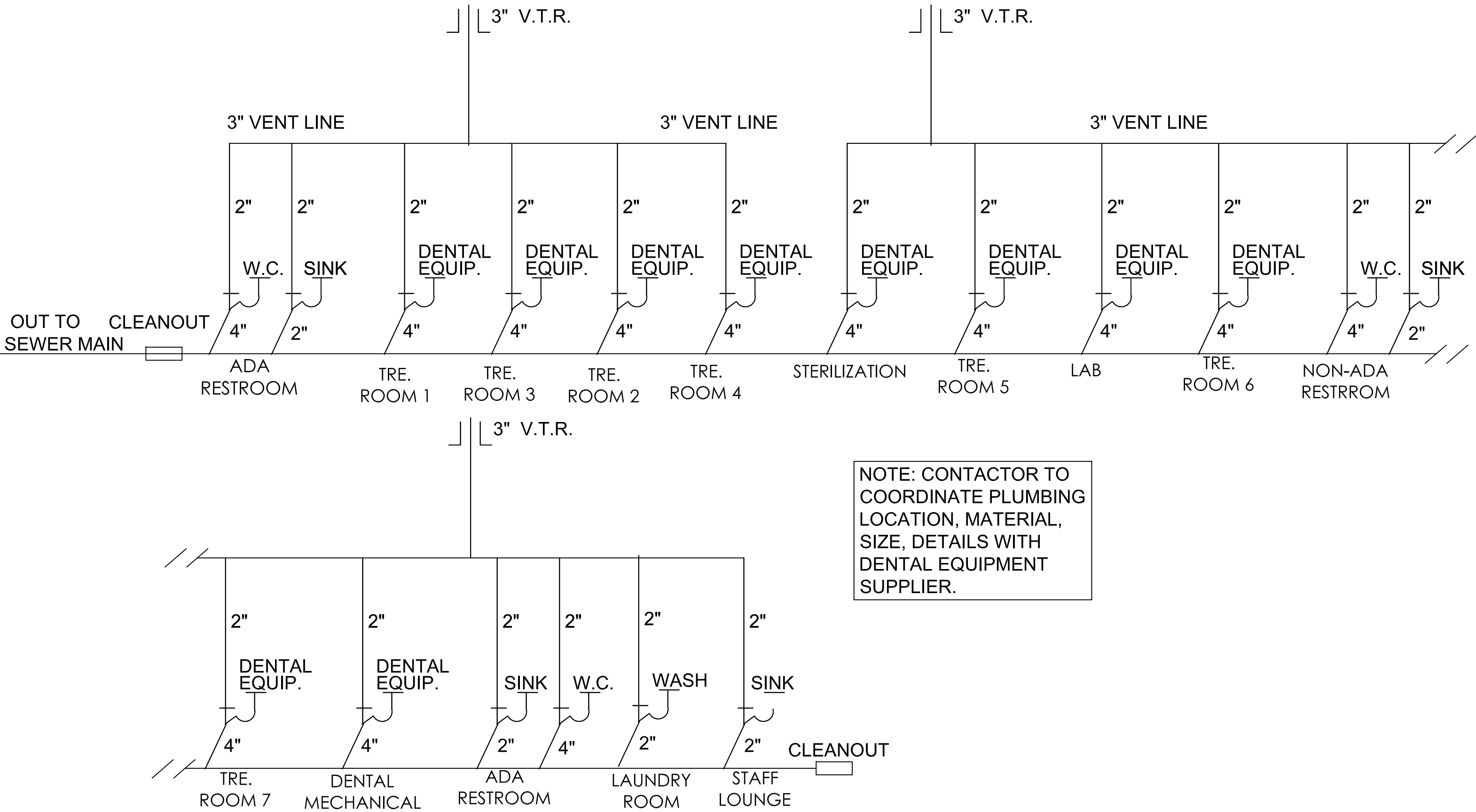
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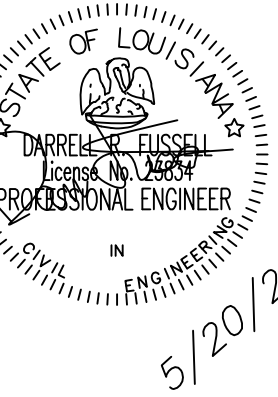
PLUMBING EQUIPMENT PLAN

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

PLUMBING SPECIFICATIONS															
QUANTITY	SPEC. NUMBER	DESCRIPTION	UTILITIES								DETAIL				
			COLD WATER	HOT WATER	DRAIN	DENTAL AIR	DENTAL VACUUM	NATURAL GAS	NITROUS OXIDE	OXYGEN		NITROGEN	MEDICAL AIR	MEDICAL VACUUM	WAST
14	3	UTILITY CENTER - SEE DETAIL(S). ALL UTILITIES MUST CONFORM TO PREVAILING LOCAL CODES.	•												3
7	7C	N2O, O2 CHECK VALVES & VACUUM LINE - CHECK VALVES SUPPLIED BY HENRY SCHEIN DENTAL. GAS LINES & CHECK VALVES INSTALLED BY ASSE 6010 CERTIFIED PLUMBER. SILVER SOLDERED TYPE K OR L COPPER GAS LINES RUN TO LOCATION SHOWN FROM MANIFOLD (33) OR EMERGENCY SHUT-OFF VALVE (34A) DEPENDING ON CODE. 1/2" VACUUM BRANCH LINE FROM MAIN TRUNK LINE BY PLUMBER. LOCATIONS SHOWN ON UTILITY CENTER DETAIL(S). VERIFIED BY HENRY SCHEIN REP. FOLLOW NFPA 99 CODES.							•	•					7C
10	12B	WATER POWERED TAP MASTER FAUCET CONTROL - FROM (12B) TO (11) OR (11A). SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY PLUMBER.													12B
3	13	COMPRESSED AIR LINE AND VALVE - 1/4" AIR LINE FROM COMPRESSOR (25) BY PLUMBER. TERMINATE WITH A 3/8" ANGLE VALVE.						•							13
1	14C	MODULAR STERILIZATION CENTER - STERI-CENTER SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL. CONTRACTOR TO PROVIDE UTILITIES PER MANUFACTURER'S SPECIFICATIONS. EXACT LOCATIONS TO BE CONFIRMED ON-SITE BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST. FINAL CONNECTIONS BY CONTRACTOR(S).	•	•	•	•	•								14C
1	15	ULTRASONIC CLEANER - FOR EQUIPMENT LOCATION ONLY. CONTRACTOR TO PROVIDE REQ'D UTILITIES FOR STERILIZATION CENTER AT 14C LOCATION. CLEANER SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL. CONNECTS TO SINK DRAIN.						•							14C
1	15B	HANDPIECE MAINTENANCE SYSTEM - FOR EQUIPMENT LOCATION ONLY. CONTRACTOR TO PROVIDE REQ'D UTILITIES FOR STERILIZATION CENTER AT 14C LOCATION. SYSTEM SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL.						•							14C
1	16	MODEL TRIMMER - SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL. DO NOT TIE INTO COLD WATER LINE FOR SINK. SEE DETAIL.	•	•											16
1	17	PLASTER TRAP - SUPPLIED BY HSD, INSTALLED BY PLUMBER ON SINK DRAIN LINE. DRAIN LINE MUST BE 21" A.F.F.													16
1	25	DENTAL AIR COMPRESSOR - SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY CONTRACTOR(S). FOR DENTAL AIR DRIVEN DEVICES. PLUMBER TO PROVIDE 1/2" I.D. COPPER TYPE K OR L SUPPLY LINES TO LOCATIONS THAT REQUIRE AIR. BUCK BOOST TRANSFORMER SUPPLIED AND INSTALLED BY ELECTRICIAN (IF REQ'D). FINAL CONNECTIONS BY CONTRACTOR(S).						•							25
1	26	DENTAL VACUUM PUMP (WET) - SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY CONTRACTOR(S). VERIFY TRUNK, REDUCTION AND BRANCH LINE SIZES WITH MFR RECOMMENDATIONS. USE SCH 40 PVC WHERE PERMITTED BY CODE. PLUMBER TO EXHAUST PUMP TO OUTSIDE. SCHEIN TO SUPPLY AIR/WATER SEPARATOR IF REQ'D. BUCK BOOST TRANSFORMER SUPPLIED AND INSTALLED BY ELECTRICIAN (IF REQ'D). DRAIN BY PLUMBER. FINAL CONNECTIONS BY CONTRACTOR(S). SEE DETAIL.	•	•				•							26
1	30	REMOTE WATER CONTROL VALVE - SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY PLUMBER ON COLD WATER SUPPLY LINE.	•												30
1	33	NITROUS OXIDE & OXYGEN MANIFOLD/SYSTEM - MANIFOLD SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY ASSE 6010 CERTIFIED PLUMBER. SILVER SOLDERED TYPE K OR L COPPER GAS LINES TO ALL (7) AND/OR (7C) LOCATIONS ON SHEET SP.1. BY ASSE 6010 CERTIFIED PLUMBER. WHERE EMERGENCY SHUT-OFF VALVE IS REQUIRED BY CODE (34A), GAS LINES MUST RUN THERE FIRST. ALL ASPECTS OF SYSTEM & CYLINDER CLOSET MUST FOLLOW CODES FOR LOCATIONS PERFORMING MINIMAL TO MODERATE SEDATION AS DEFINED BY NFPA 99.												•	33
1	34A	NITROUS OXIDE & OXYGEN EMERGENCY SHUT-OFF VALVE - SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY ASSE 6010 CERTIFIED PLUMBER ON BRANCH LINES BETWEEN MANIFOLD & TREATMENT ROOMS. SILVER SOLDERED TYPE K OR L COPPER LINES ONLY. FOLLOW NFPA 99 CODES.								•	•				34A



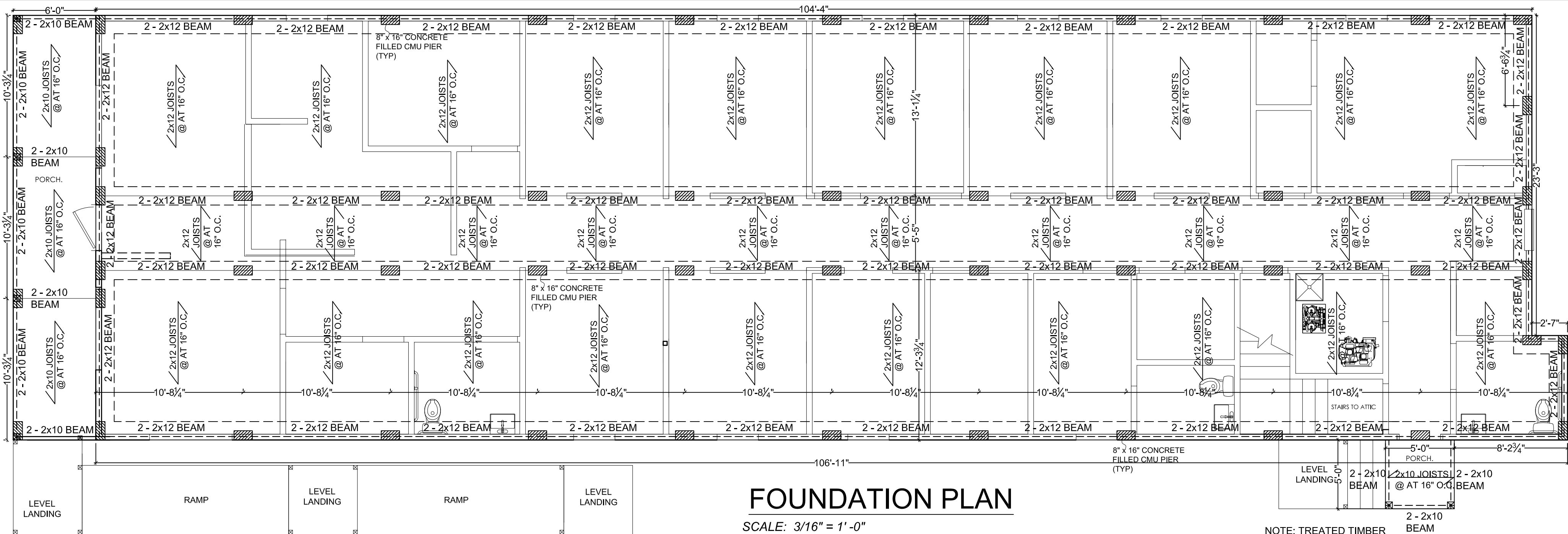
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FOUNDATION PLAN

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

CONCRETE NOTES:

- REFER TO ARCH. SLAB PLAN FOR EXACT DIMENSIONS.
- USE CONCRETE BRICK SUPPORTS TO MAINTAIN REINFORCING CLEARANCES. DO NOT USE CMU OR FACE BRICK.
- ALL CONCRETE SHALL DEVELOP 4,000 PSI COMPRESSIVE STRENGTH @ 28 DAYS. PLACE CONCRETE WITH MAXIMUM SLUMP OF 6". PROVIDE SLUMP TEST AND CYLINDERS AT BEGINNING AND MIDPOINT OF POUR.
- GRADE 40 DEFORMED REINFORCING.
- ASTM-185 WWF REINFORCING.
- APPLY A LIQUID MEMBRANE CURING CHEMICAL TO ALL CONCRETE SURFACES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. W.R. MEADOWS 1100-CLEAR OR EQUAL.
- 2" CLEARANCE FOR REBAR, SIDES AND BOTTOM.
- CONTRACTOR TO RETAIN TESTING LAB TO PROVIDE CERTIFIED REPORTS OF CONCRETE CONSTRUCTION.

IBC 2021 NOTES

- DESIGN LIVE LOAD
- MEETING ROOM, CORRIDORS, PORCHES - 100 PSF
- ALL OTHER ROOMS - 40 PSF
- FOUNDATION DESIGN BASED ON AN ALLOWABLE BEARING PRESSURE OF 1500 PSF
- CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION
- CONCRETE SLUMP NOT TO EXCEED 6"
- 3" COVER FOR CONCRETE REINFORCING, TOP AND SIDES
- 25" LAP WITH 2 TIES REQUIRED AT REINFORCING SPLICES.
- 12" HOOK REQUIRED AT CORNERS

FRAMING SPECIFICATIONS:

- DESIGN WIND LOAD = 140 MPH AS PER IBC 2021.
- WALLS - ALL FRAMING LUMBER SHALL BE NO. 2 SOUTHERN PINE. TYPICAL WALLS SHALL BE 2x4 @ 16" O.C. UNLESS NOTED. WET WALLS SHALL BE 2x6 @ 16" O.C. BLOCK ALL WALLS OVER 8'-0" TALL AT MID-HEIGHT FASTEN BOTTOM PLATE OF INTERIOR WALLS WITH 1/4" POWER-DRIVEN NAILS @ 48" O.C.
- RAFTER STRAPPING - INSTALL SIMPSON STRONG-TIE H8 (OR EQUAL) AT EACH RAFTER - TOP PLATE, STUD - TOP PLATE.
- RAFTER, FLOOR JOISTS AND CEILING JOISTS SIZING - SEE PLANS FOR CEILING JOISTS SIZING. RAFTERS, 2x6 RAFTERS @ 24" O.C., BRACE TO LIMIT HORIZONTAL SPAN TO 9'.
- EXTERIOR WALL SHEATHING - FULLY SHEATH EXTERIOR WALLS WITH 7/16" THICK 32/16 RATED OSB OR PLYWOOD FROM THE TOP OF THE TOP PLATE TO THE BOTTOM OF THE BOTTOM PLATE. NAILING PATTERN - 6" O.C. ON EDGES AT 12" O.C. ON INTERIOR. USE 10d NAILS, 2-1/2" LONG.
- ROOFING SHEATHING - USE 40/20 RATED OSB OR PLYWOOD PANELS 7/16" MIN. THICKNESS. ATTACH WITH 8d RING SHANK (2-5" LONG x 1/2" DIAMETER) NAILS AT 4" O.C. ON ANY PANEL ADJACENT TO A GABLE END AND 6" O.C. ELSEWHERE.
- ROOF UNDERLAYMENT - 15# FELT WITH A MINIMUM 2" OVERLAP AND A 6" END LAP. NAIL SPACING OF 6" ALONG THE LAP AND 12" IN THE INTERIOR OF EACH STRAP. USE LOW PROFILE NAIL WITH LOAD DISTRIBUTION DISKS.
- ROOF COVERING - SYSTEM MUST WITHSTAND THE DESIGN WIND LOAD.
- WINDOW PROTECTION - USE 7/16" PLYWOOD OR OSB TO COVER WINDOWS. ATTACH WITH #10 MASONRY OR WOOD SCREWS @ 24" O.C. MAX.
- EXTERIOR COLUMNS - SEE DETAILS.
- BEAM SUPPORT - PROVIDE 3-STUD COLUMN AT BEARING OF ALL BEAMS OR DOUBLED JOISTS.
- INTERIOR WALLS BOTTOM PLATE TO SLAB CONNECTION - FASTEN-MASTER TIMBERLOK LAG SCREWS, 3/8" DIA. x 4" LONG @ EACH FLOOR JOIST TO PLATE CONNECTION.

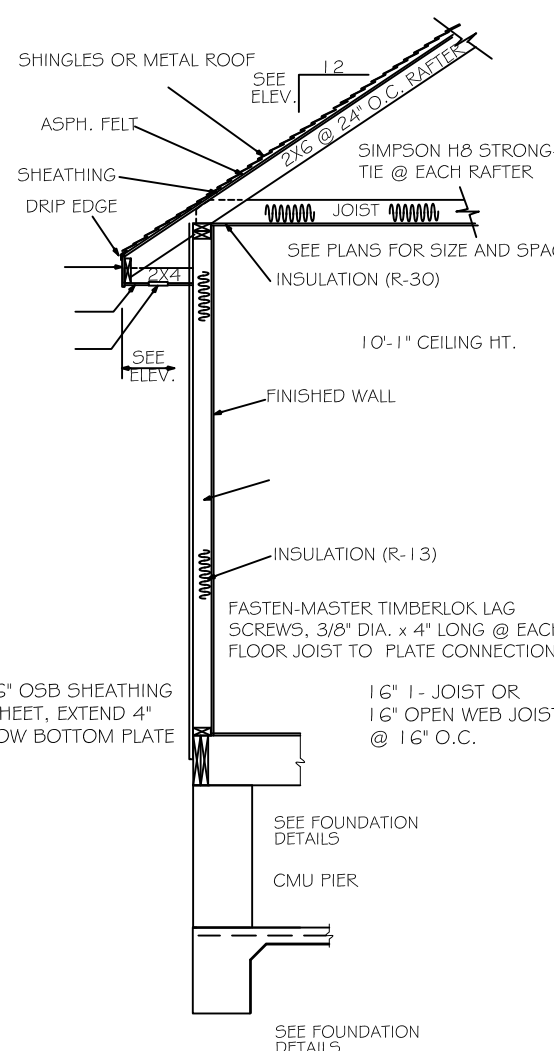
GROUND FLOOR WALL ANCHOR BOLTS - ANCHOR FLOOR PLATES TO SLAB WITH 5/8" ASST ANCHOR BOLTS (1" LONG) WITH A MINIMUM EMBEDMENT OF 8" WITH 3" x 3" x 1/2" WASHERS SPACED @ 12" O.C. BEGINNING 12" FROM THE CORNER AND RUNNING FOR 4'-0". BEYOND 4'-0" FROM THE CORNER, SPACE THE BOLTS @ 32" O.C.

DESIGN CRITERIA

- 2020 NEC
- 2021 INTERNATIONAL BUILDING CODE
- WOOD DESIGN VALUES PER 2018 WOOD FRAME CONSTRUCTION MANUAL
- BUILDING FRAME AND COMPONENTS DESIGNED BASED ON LOADS FROM ASCE 7-16

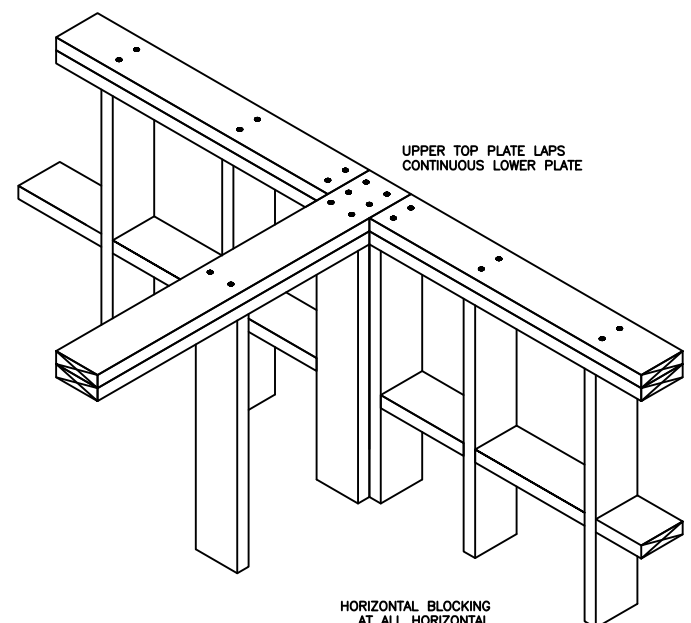
CONTINUOUS LOAD PATH
CMU PIERS TIED TO STRIP FOOTINGS WITH VERTICAL REINFORCING. SILL BEAMS TIED TO PIERS WITH METAL STRAPS. WALLS TIED TO SILL BEAMS WITH CONT. SHEATHING. RAFTERS TIED TO WALLS WITH H8 STRAPS.

NOTE: OWNER AND CONTRACTOR RESPONSIBLE FOR DETERMINING REQUIRED HEIGHT OF CMU PIER BASED ON BASE FLOOD ELEVATION INFORMATION PROVIDED BY SURVEYOR AND PARISH.



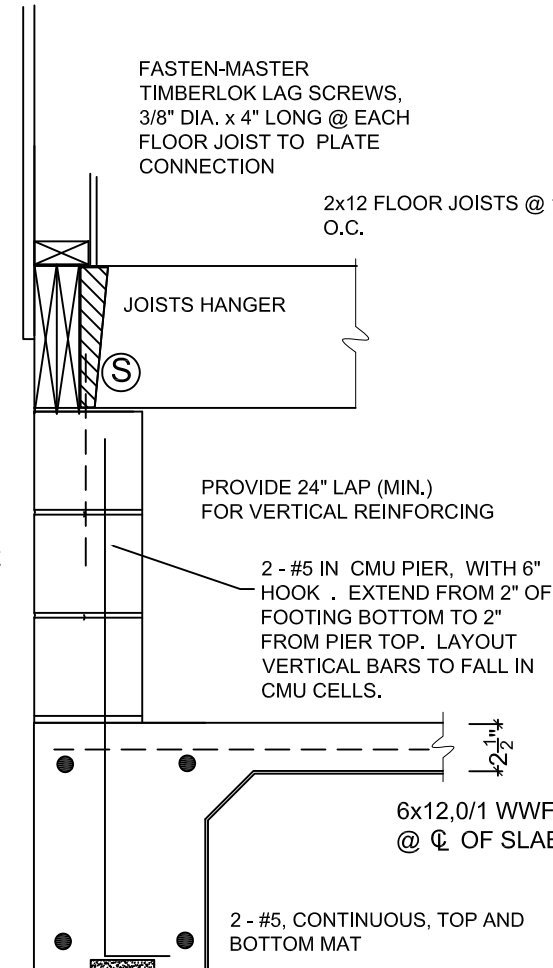
WALL FRAMING DETAIL

NOT TO SCALE



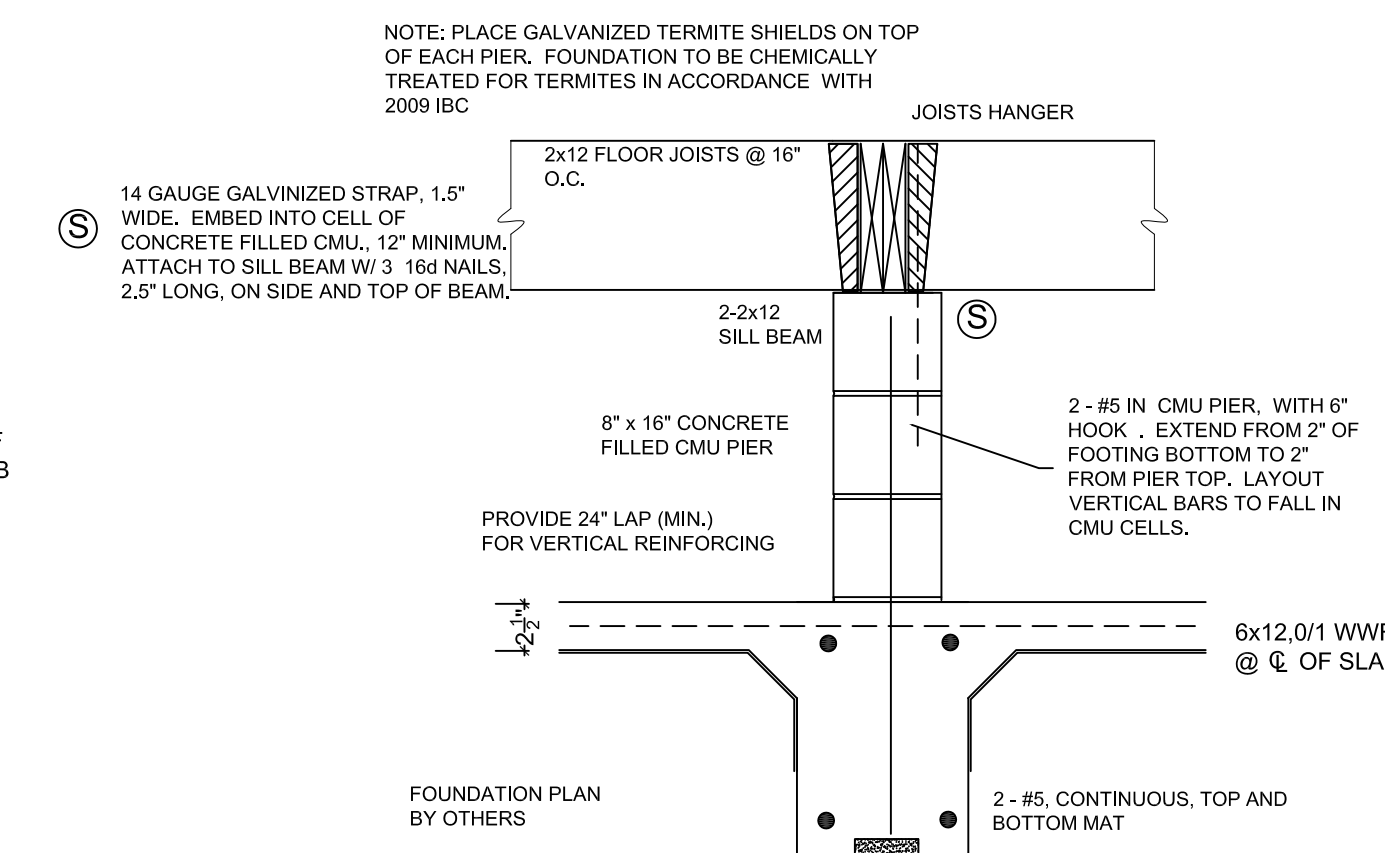
TYPICAL TOP PLATE INTERSECTION DETAIL

NOT TO SCALE



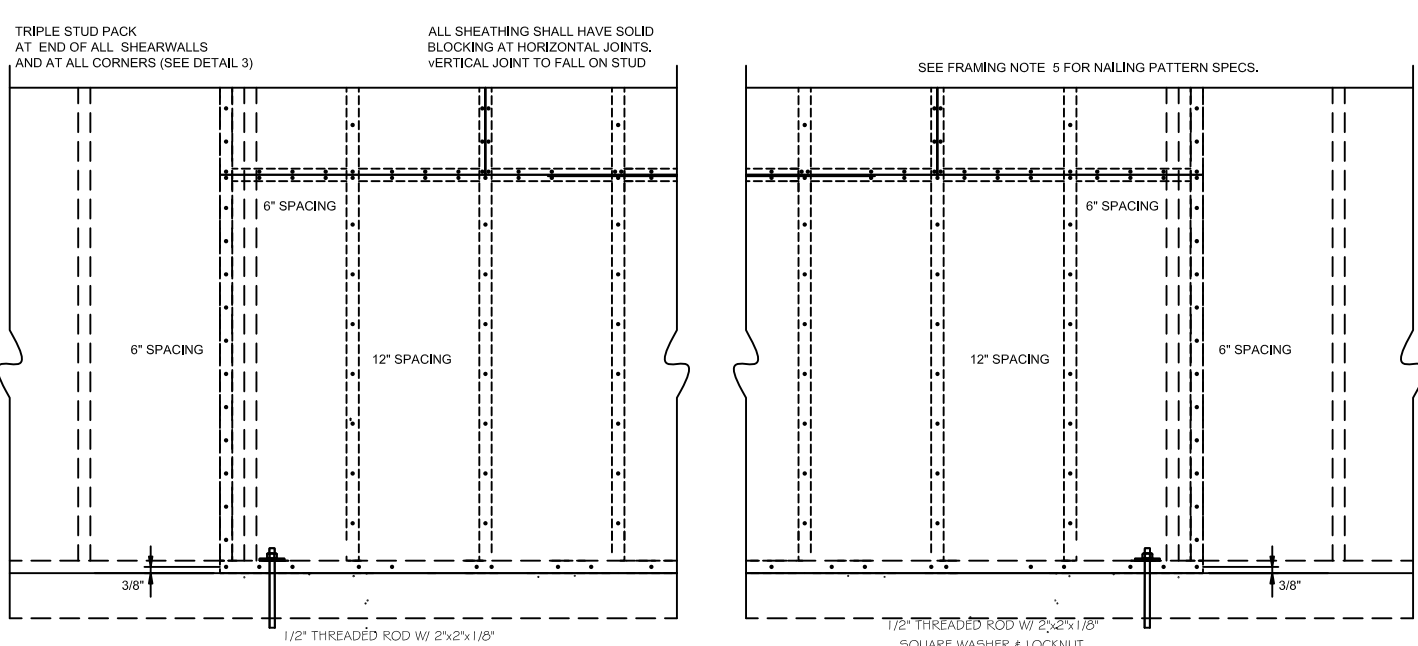
EXTERIOR WALL DETAIL

NOT TO SCALE



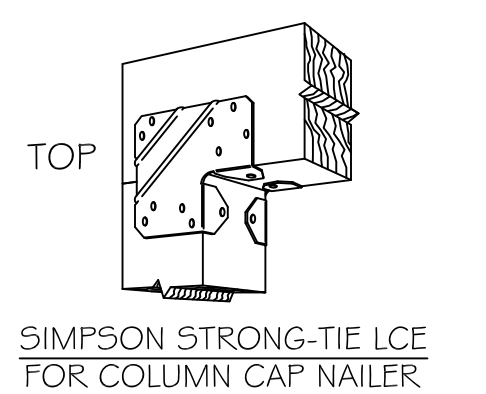
INTERIOR PIER DETAIL

NOT TO SCALE



SHEAR WALL FASTENING PATTERN DETAIL

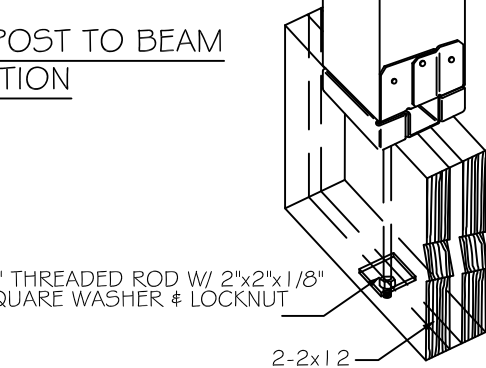
NOT TO SCALE



EXTERIOR COLUMN DETAILS

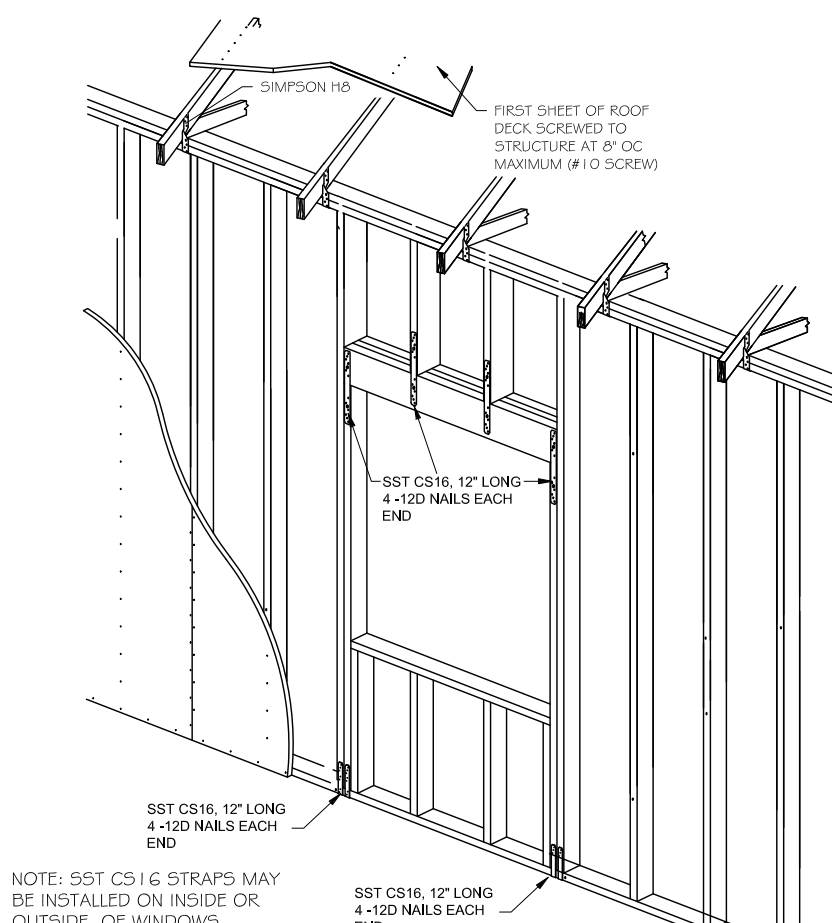
(SOLID RECT. WD COLUMNS)

NOT TO SCALE



TYPICAL EXTERIOR WALL DETAIL

NOT TO SCALE



ROOF PLAN

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



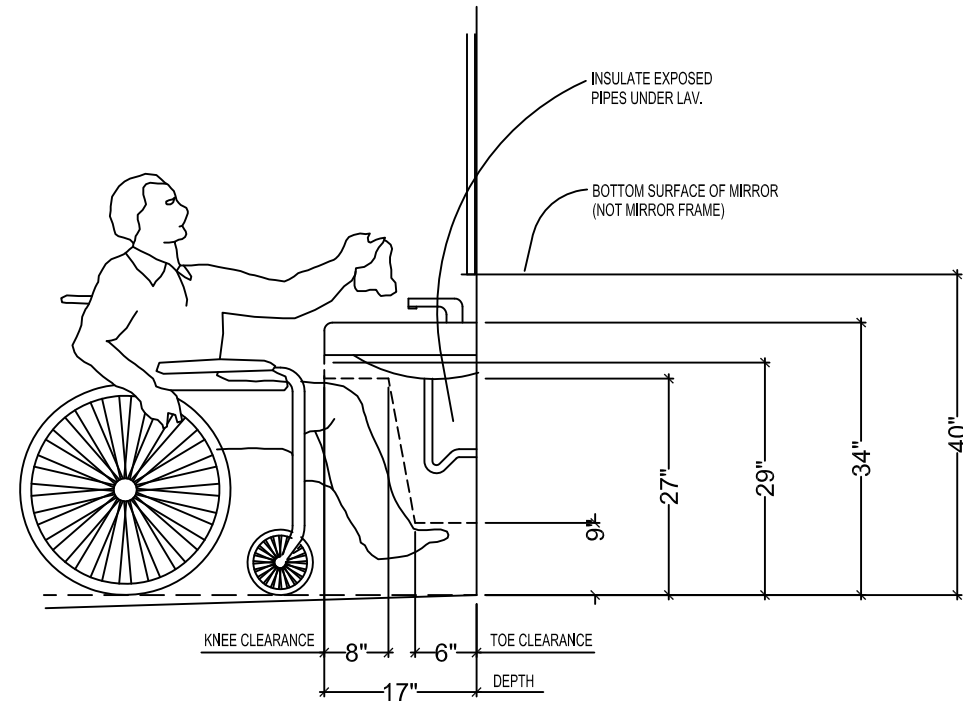
Date	Description	Issue
1-29-26	FOR REVIEW	A
3-27-26	REVISED	B
5-20-26	REVISED	C

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W. 1120 W. 21ST AVE.
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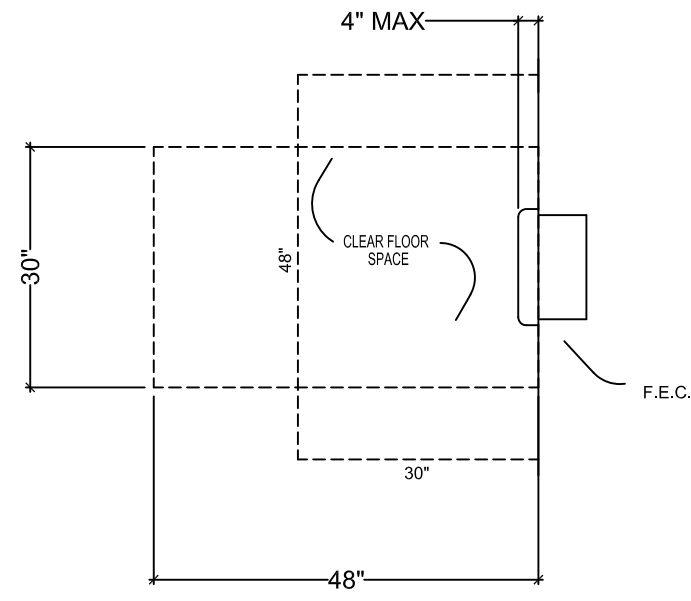
ARROW ENGINEERING
& CONSULTING
DARRELL FUSSELL, P.E.
darfuss123@gmail.com

Phone: 985-237-3908

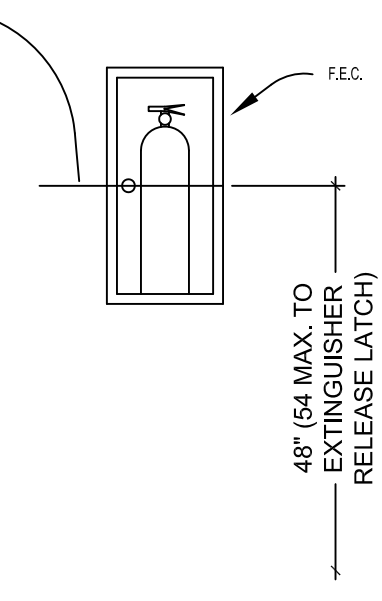
PO BOX 881
Madisonville, LA 70447



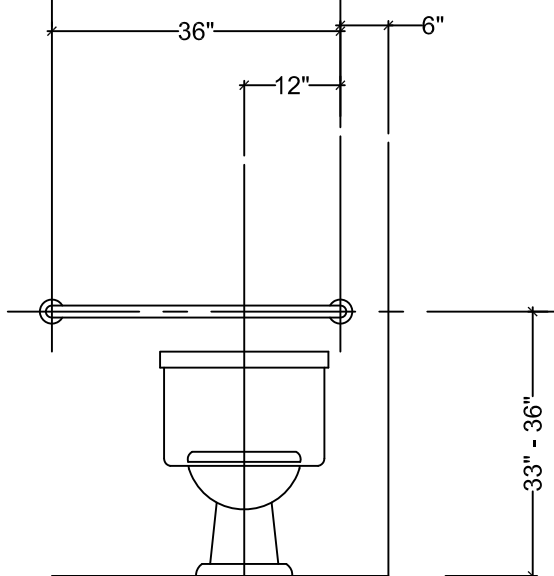
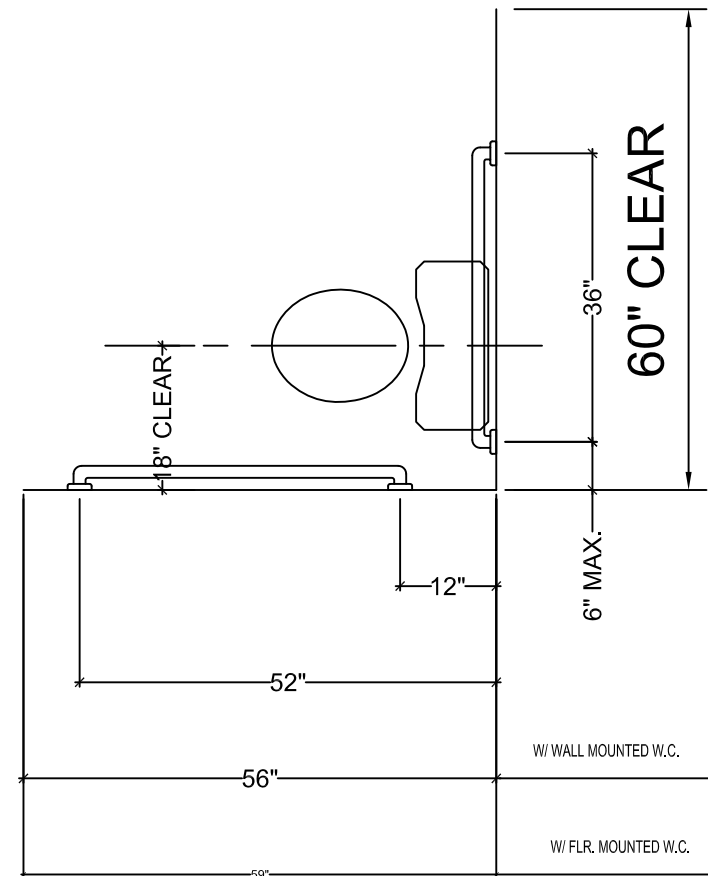
LAVATORY CLEARANCES



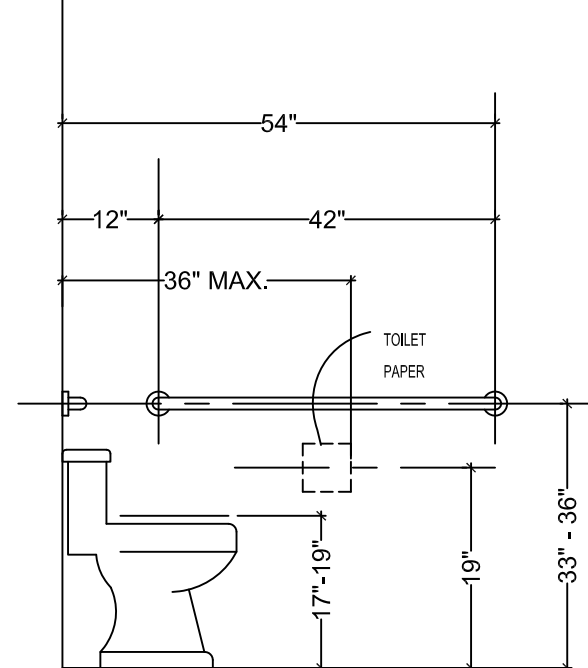
FIRE EXTINGUISHER & CABINET CLEARANCES



CLEAR FLOOR AT WATER CLOSETS

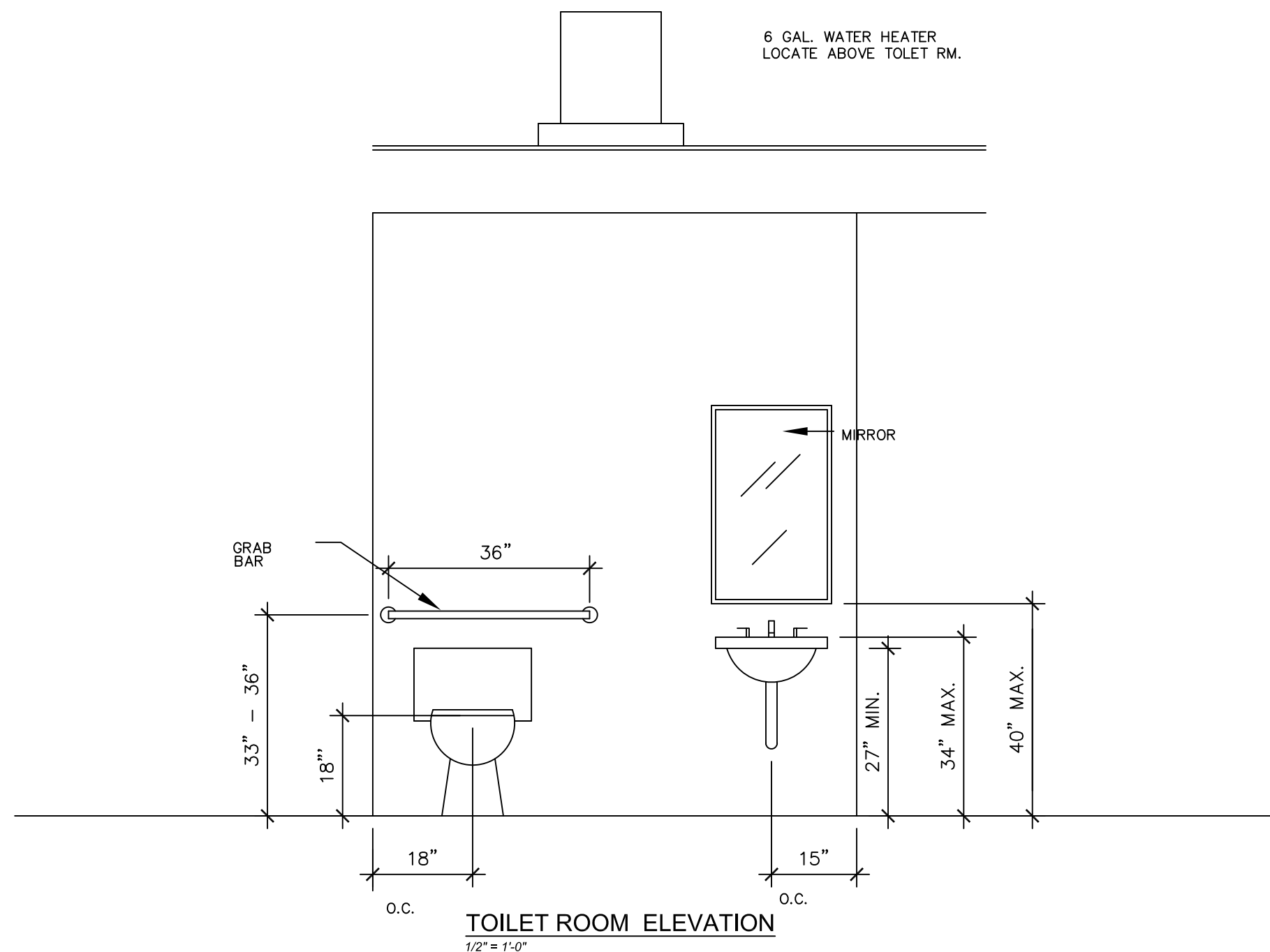
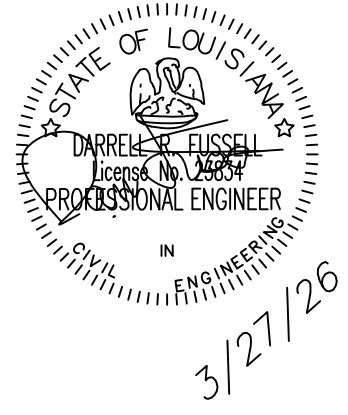


BACK WALL

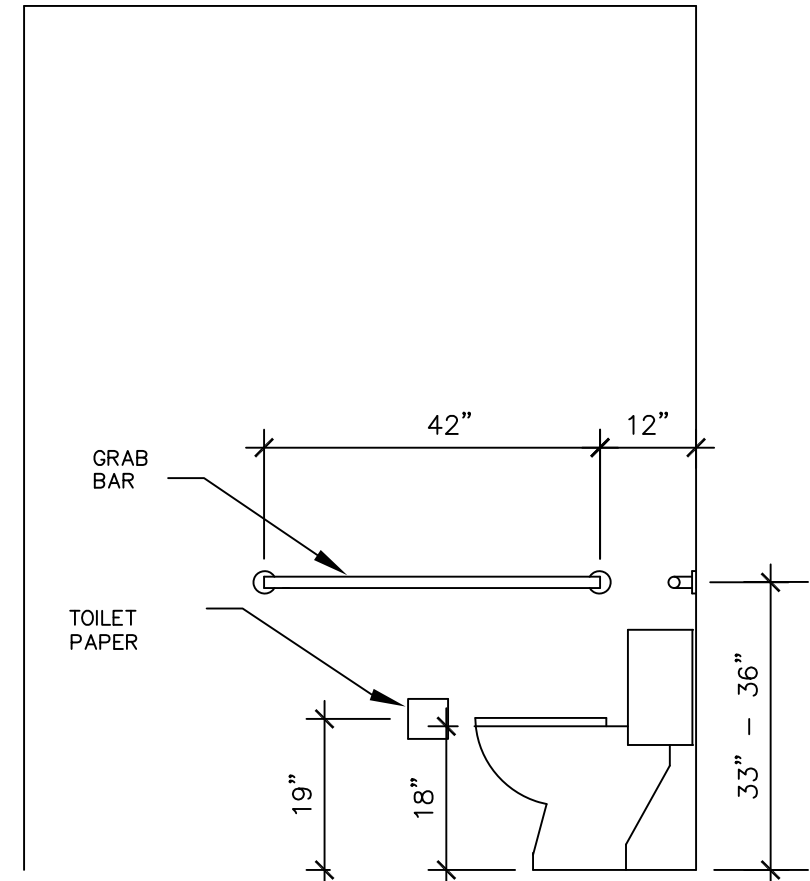


SIDE WALL

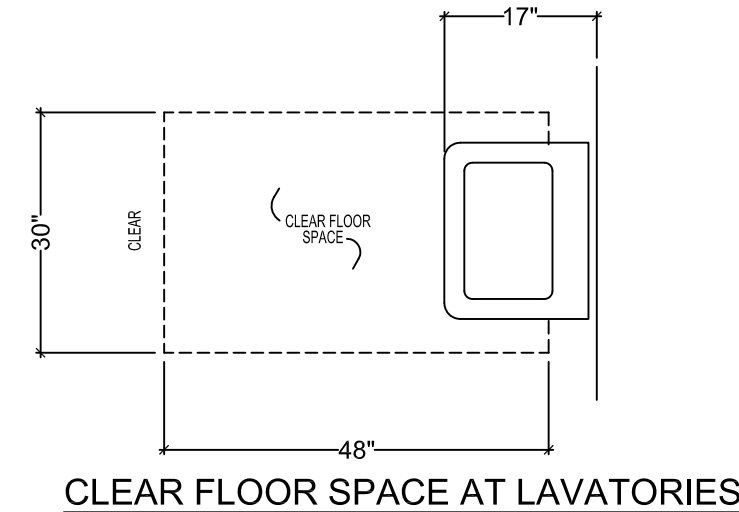
GRAB BARS AT WATER CLOSETS
(LEFT CLEARANCE SHOWN - RIGHT SIDE OPP HAND)



TOILET ROOM ELEVATION
1/2" = 1'-0"

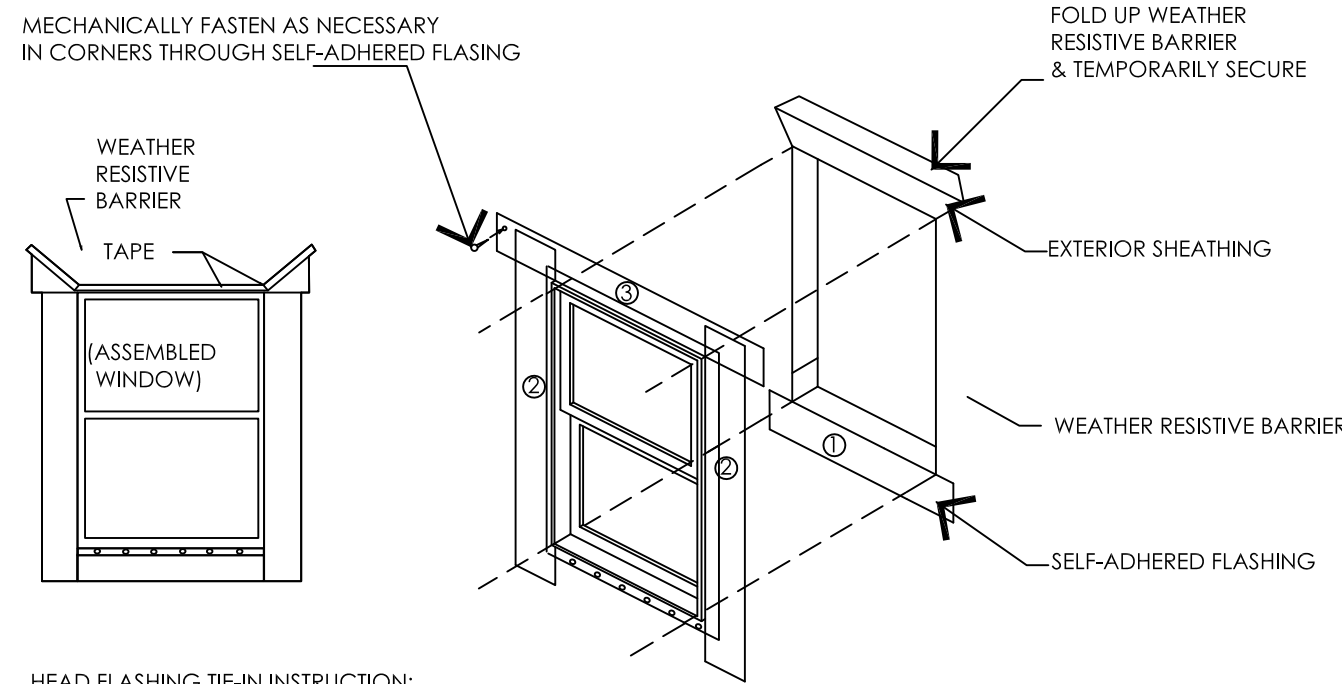


TOILET ROOM ELEVATION
1/2" = 1'-0"



CLEAR FLOOR SPACE AT LAVATORIES

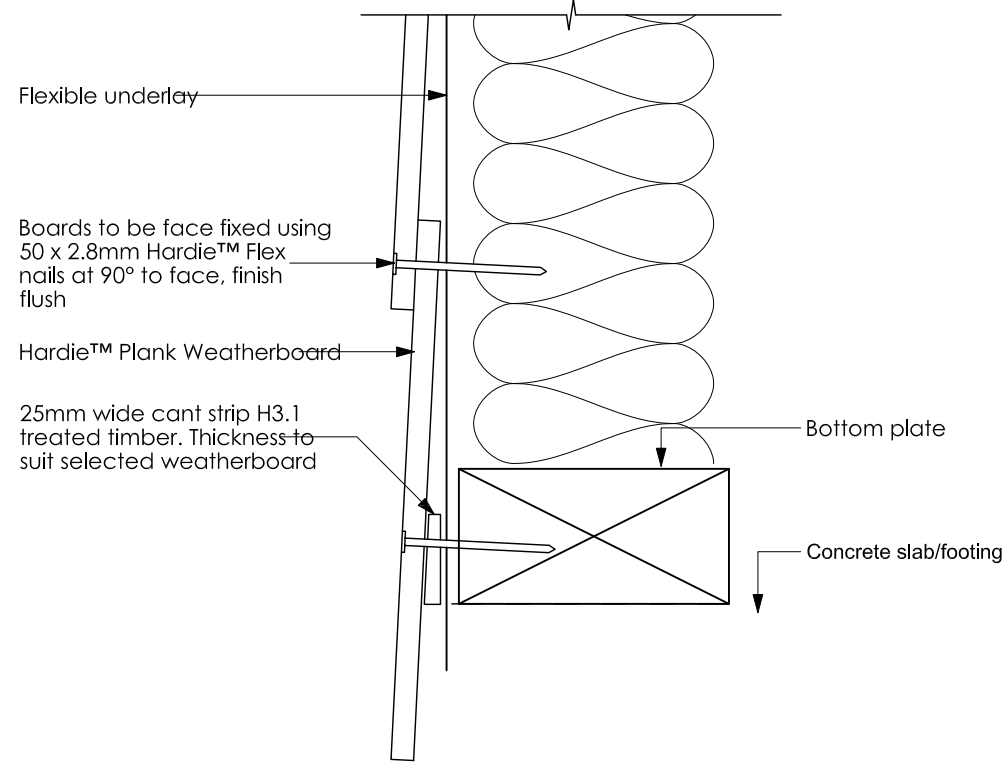
ACCESSIBILITY REQUIREMENTS



HEAD FLASHING TIE-IN INSTRUCTION:
1. CUT, FOLD UP & TEMPORARILY SECURE WEATHER RESISTIVE BARRIER ABOVE HEADER TO ALLOW FOR FLASHING INSTALLATION
2. SELF-ADHERED FLASHING PLUS HEAD FLASHING UNDER WEATHER RESISTIVE BARRIER
3. FOLD WEATHER RESISTIVE BARRIER BACK OVER HEAD FLASHING AND SEAL WITH TAPE

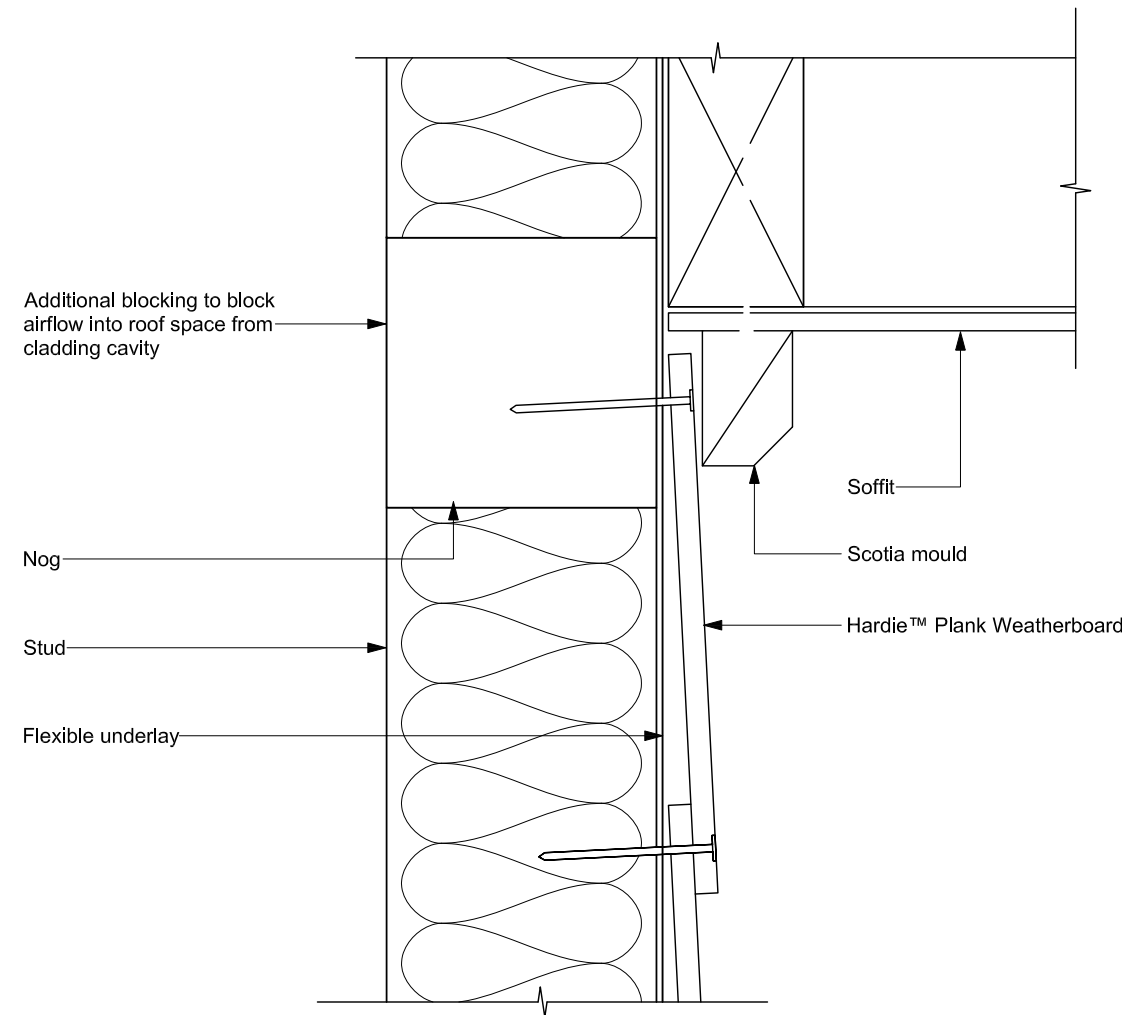
WINDOW FLASHING DETAIL

NOT TO SCALE



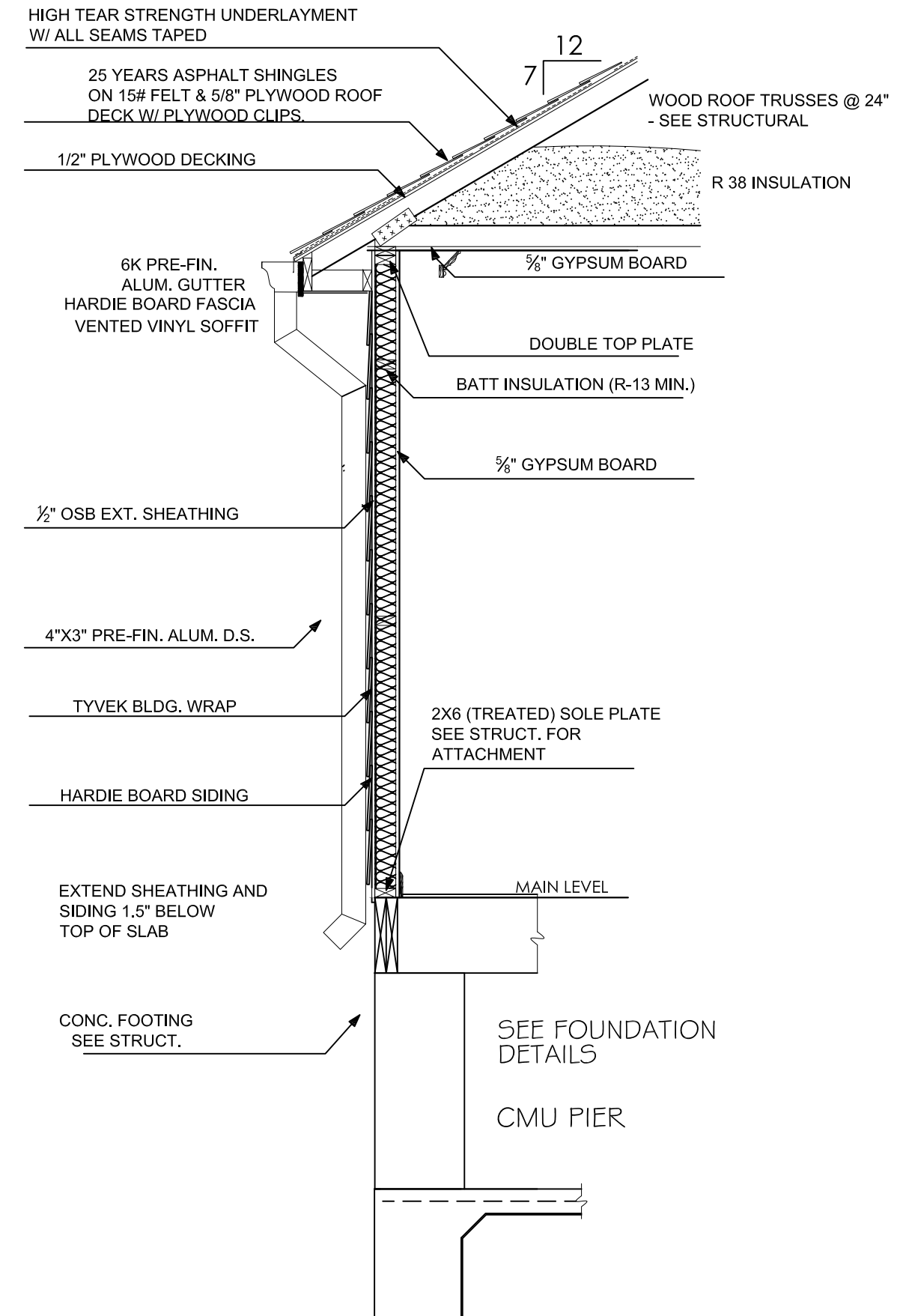
SIDING DETAIL - BASE

NOT TO SCALE



SIDING DETAIL - TOP

NOT TO SCALE



EXTERIOR WALL SECTION SIDING

NOT TO SCALE

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DARRELL FUSSELL, P.E.

PO BOX 881
Madisonville, LA 70447

Phone: 985-237-3908

Date	Description	Issue
2-5-26	For SFM review	A
3-27-26	REVISED	B

KT-FLEDXXXPSXX-R2X-UNV-8CSB-VDIM-X

HIGH POWER FLOODLIGHT

DESCRIPTION

High Power Floodlight | Power Select | Color Select | 120-277V or 277-480V Input | 80 CRI | Bronze or White Housing

APPLICATION

Ground, pole, or building mount applications (parking lots, auto dealerships, building facades, signs, recreational venues, general area lighting)

PRODUCT FEATURES

• Keystone Power Select technology (140/100W or 290/210W)

• Keystone Color Select technology (3000/4000/5000K)

• High power floodlight with innovative design based on established floodlight principles

• Suitable for ground, pole, or building mount applications

• Heavy-duty slipfitter and trunnion mount options included

• 3-pin twist-lock photocell and shorting cap included with NEMA/ANSI C136.10 3-pin twist-lock receptacle

• Precision-crafted optics lens for NEMA 7H x 6V beam spread (installed), 6H x 6V and 5H x 5V also available (sold separately)

• Die-cast aluminum housing, with optional glare shield accessory (sold separately)

• Keystone 0-10V dimming driver with 12V AUX power tap and 6kV surge protection

• Ambient operating temperature: -40°C/-40°F - 50°C/122°F

• UL Certified

• IP65 rated

• Power factor: > 0.95

• THD: < 20%

• L70 @ 100,000 hours @ 25°C/77°F ambient temperature

• Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

• ** TAA options available. See Ordering Information below

PRODUCT IMAGES

KT-FLED140PSXX-R2X-UNV-8CSB-VDIM with Slipfitter Mount

KT-FLED140PSXX-R2X-UNV-8CSB-VDIM with Trunnion Mount

KT-FLED290PSXX-R2X-UNV-8CSB-VDIM with Slipfitter Mount

KT-FLED290PSXX-R2X-UNV-8CSB-VDIM with Trunnion Mount

LEGEND

- EXISTING GRADE
- REQUIRED GRADE
- DIRECTION OF FLOW
- SDR 35 PVC PIPE
- ROOF DRAIN
- PARKING BUMPER
- 5x5' LEVEL LANDING

LTG. ANALYSIS

- FUTURE MOUNTED @ 30' ARMED @ 30° BEAM HORIZONTAL
- F.C. > 5.0
- F.C. > 2.0
- F.C. > 1.0
- F.C. > 0.5

PAVING SECTION

NOT TO SCALE

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OUTDOOR LIGHTING NOTES

- LIGHTING SHALL PROVIDE TOTAL FOOTCANDLES MEASURED AT THREE FEET ABOVE GROUND LEVEL NOT EXCEED TWO FOOTCANDLES AT THE PROPERTY LINE.
- LIGHTING FIXTURES WILL BE "FULLY SHIELDED"
- THE LIGHTS WILL BE KEYSTONE TECHNOLOGIES KT-FLED140PS-R2D-UNIV-8CSB-VDIM-100W
- LUMEN OUTPUT PER LAMP - 13500
- WATTAGE - 100 WATT

ARROW ENGINEERING & CONSULTING
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darfuss123@gmail.com

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Issue A
Description FOR REVIEW
Date 6-10-26

PH