

731

RAINFOREST CARWASH & OIL CHANGE

5026 HARDY STREET
HATTIESBURG, MISSISSIPPI 39401

Should be 2006

INTERNATIONAL BUILDING CODE 2009 SUMMARY

OCCUPANCY CLASSIFICATION:
BUSINESS GROUP: B (SEC 304.1)

OCCUPANT LOAD: (TBL 1004.1.1)
BUSINESS = 100 GROSS / OCCUPANT = (5,460/100) = 54.6 OCCUPANTS
TOTAL LOAD = 54.6 OCCUPANTS

EXIT ACCESS REQUIREMENTS: (SEC 1014)
2 EXITS REQUIRED FOR > 49 OCCUPANTS (TBL 1015.1)
2 EXITS PROVIDED
MAXIMUM COMMON PATH OF EGRESS TRAVEL = 200' (BUSINESS WITHOUT SPRINKLER, TBL 1016.1)
LONGEST EGRESS PATH IN AREA OF WORK = 60'

CONSTRUCTION CLASSIFICATION: (SEC 602.5)
TYPE VB

ALLOWABLE HEIGHT AND BLDG. AREA: (TBL 503)
TWO STORY AND 9,000 SQ.FT.
THIS BLDG 5,460 SQ.FT. / 1 STORY

FIRE RESISTANCE RATING REQUIREMENTS FOR BLDG. ELEMENTS: (TBL 601)
STRUCTURAL FRAME = 0 HRS.
BEARING WALLS (INTERIOR AND EXTERIOR) = 0 HRS.
NON-BEARING WALLS = 0 HRS.
FLOOR CONSTRUCTION = 0 HRS.
ROOF CONSTRUCTION = 0 HRS.

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS: (TBL 602)
EXTERIOR WALLS WITH >= 30' FIRE SEPARATION DISTANCE = 0 HRS.
EXTERIOR WALLS WITH < 5' FIRE SEPARATION DISTANCE = 1 HR.

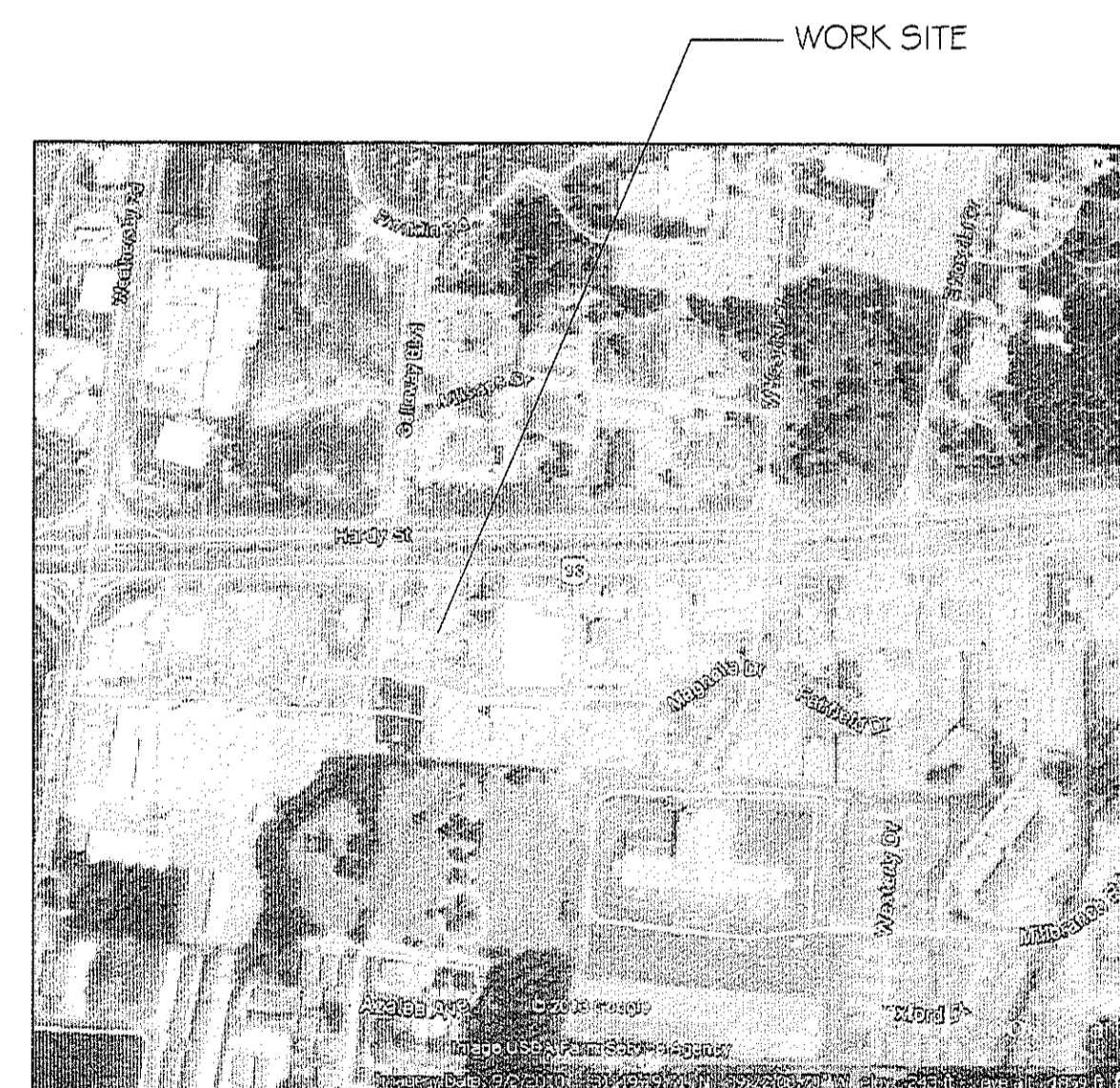
MAX. AREA OF EXTERIOR WALL OPENINGS: (TBL 704.8)
BLDGS. WITH >= 30' FIRE SEPARATION DISTANCE ALLOWED UNLIMITED PROTECTED AND UNPROTECTED OPENINGS

AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS: (SEC 903)
THIS BLDG. SHALL NOT REQUIRE NOT AN AUTOMATIC SPRINKLER SYSTEM.

FIRE PROTECTION SYSTEM REQUIREMENTS: (SEC 907)
THIS BLDG. SHALL NOT REQUIRED TO HAVE AN APPROVED FIRE PROTECTION SYSTEM IN ACCORDANCE WITH SEC 907.2.2.

CONSTRUCTION DOCUMENTS: (SEC 1603)
THIS BLDG. SHALL BE DESIGNED IN ACCORDANCE WITH IBC SECTION 1609 AS A FULLY ENCLOSED BLDG. USING THE FOLLOWING INFORMATION:

WIND DESIGN DATA:
DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.4
BASIC WIND SPEED (3 SECOND GUSTS) = 110 MPH (FIG 1609)
IMPORTANCE FACTOR: CATEGORY II BLDG., IE = 1.00, IS = 1.0, IW = 1.00 (TBL 1604.5)
EXPOSURE B
DESIGN WIND PRESSURE (ASCE 7-05 FIG. 6-2): 33.6 PSF
INTERNAL PRESSURE COEFFICIENT (ASCE 7-05 FIG. 6-5): ± 0.18
LIVE LOADS: (SEC 1607)
OFFICE (TBL 1607.1): 50 PSF
ROOF LIVE LOAD (TBL 1607.1) = 20 PSF UNIFORM, 300 LB. CONCENTRATED
GROUND SNOW LOAD (FIG. 1608.2) = 5 PSF



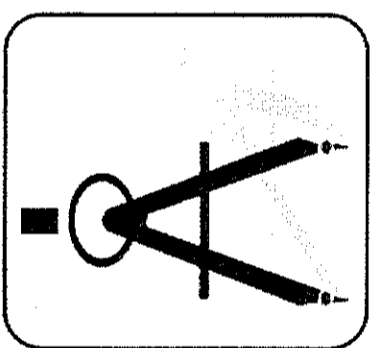
VICINITY MAP
N.T.S.

INDEX OF DRAWINGS			
SHT#	DWG#	DRAWING NAME	REVISED
1		COVERSHEET	07-19-13
2	C-1	SITE PLAN	07-19-13
3	C-2	PAVING & DRAINAGE	07-19-13
4	C-3	LANDSCAPING PLAN	07-19-13
5	S-1	CARWASH FOUNDATION PLAN & DETAILS	07-19-13
6	S-2	CARWASH FOUNDATION DETAILS	07-19-13
7	S-3	OIL CHANGE FOUNDATION PLAN & DETAILS	07-19-13
8	A-1	CARWASH BUILDING FLOOR PLAN	07-19-13
9	A-2	CARWASH EXTERIOR ELEVATION PLAN	07-19-13
10	A-3	OIL CHANGE ELEVATIONS & PLAN	07-19-13
11	A-4	CARWASH EQUIPMENT LIST	07-19-13
12	E-1	CARWASH ELECTRICAL PLAN	07-19-13
13	E-2	CARWASH POWER & LIGHTING PLAN	07-19-13
14	E-3	CARWASH POWER PLAN	07-19-13
15	E-4	CARWASH ELECTRICAL POWER PLAN	07-19-13
16	E-5	SITE ELECTRICAL UTILITY PLAN	07-19-13
17	E-6	CARWASH ONE-LINE DIAGRAM	07-19-13
18	E-7	ELEC. PANEL SCHEDULE SPECS AND NOTES	07-19-13
19	E-8	OIL CHANGE POWER & LIGHTING PLAN	07-19-13
20	P-1	CARWASH PLUMBING PLAN	07-19-13
21	P-2	CARWASH RECLAIM SYSTEM	07-19-13
22	P-3	CARWASH TANK PUMP DETAILS	07-19-13

FIELD COPY
MUST BE ON SITE FOR EACH INSPECTION
CODE ITEMS NOT NOTED WILL BE FIELD VERIFIED

DAMMON

ENGINEERING, INC.



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5026 HARDY STREET
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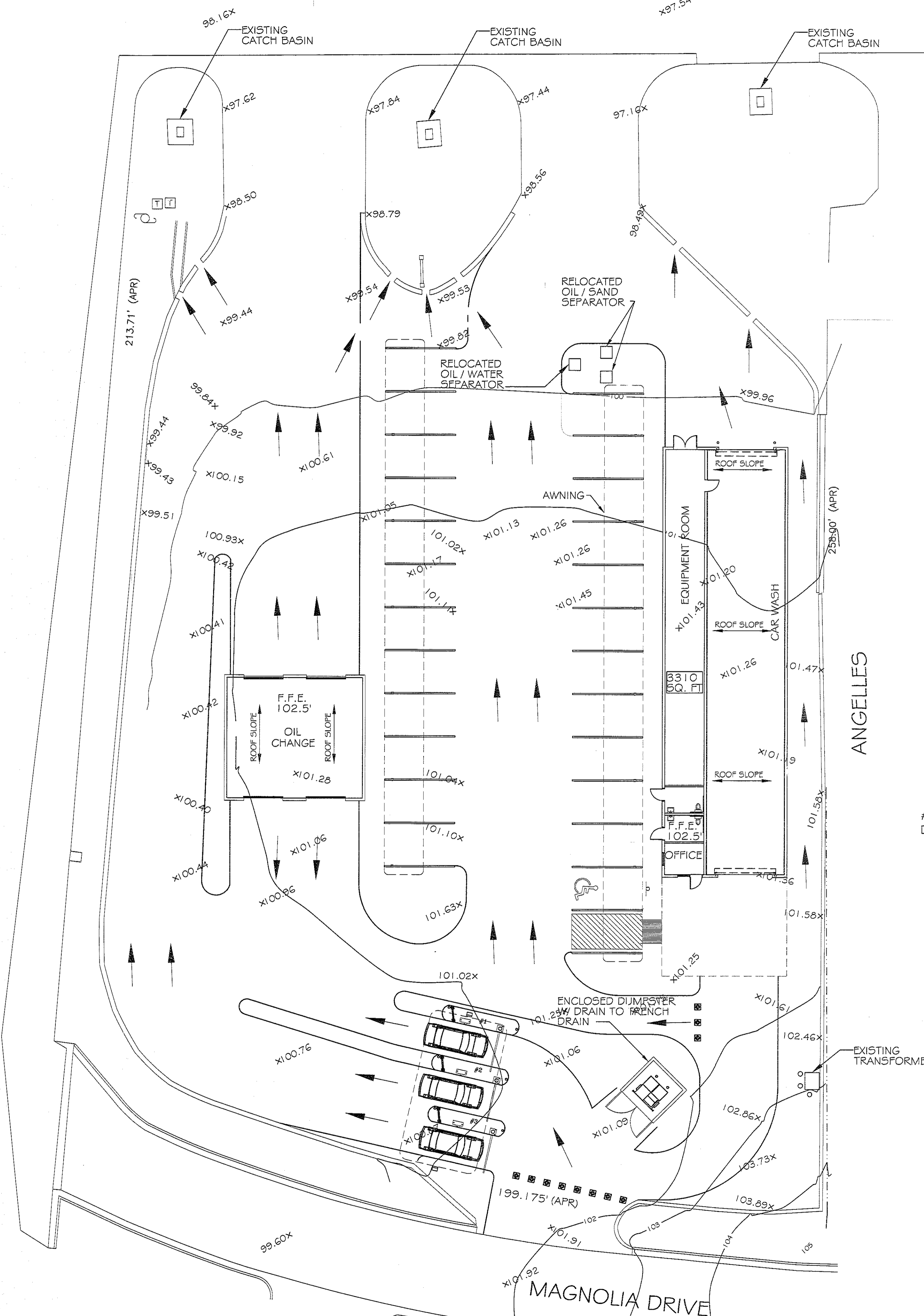
JOB No: 2176 DATE: 06-28-2013
DRAWN BY: CKD CHECKED BY: CKD



13-2905 5026 Hardy Street

5026 Hardy Street

U.S. HIGHWAY 98 (EAST BOUND LANE)

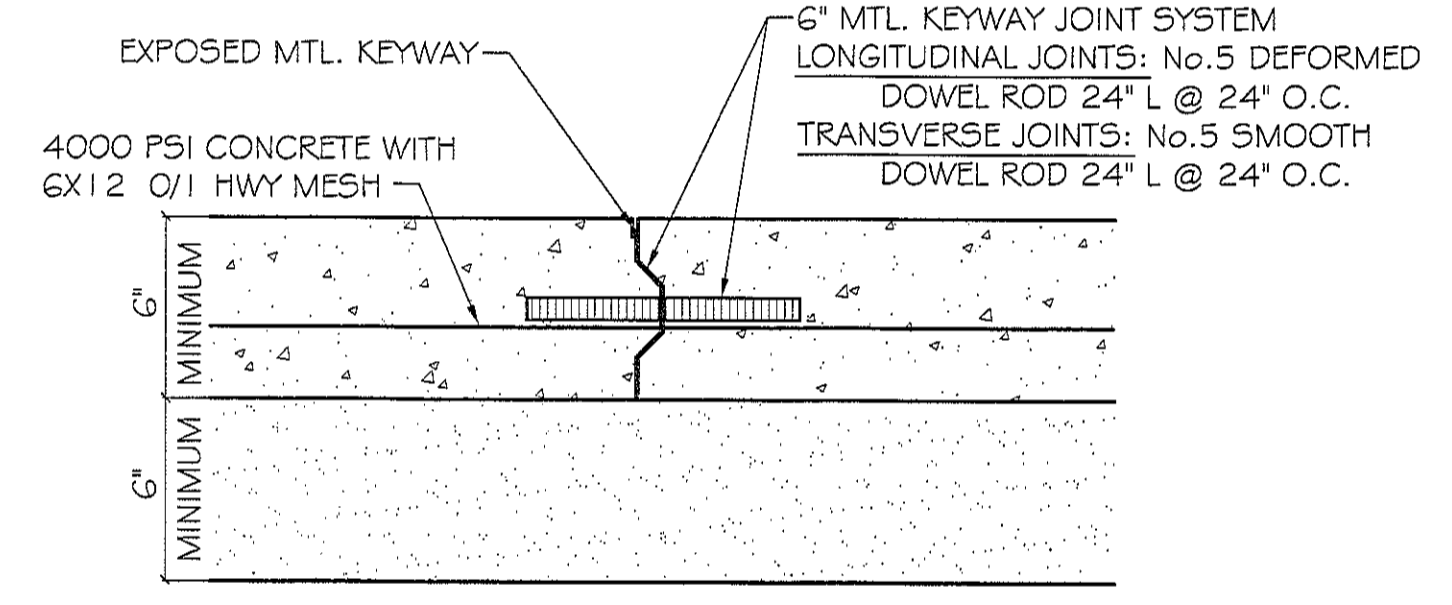


LEGEND
 - SLOPE LINES
 x00.00' - EXISTING ELEVATIONS

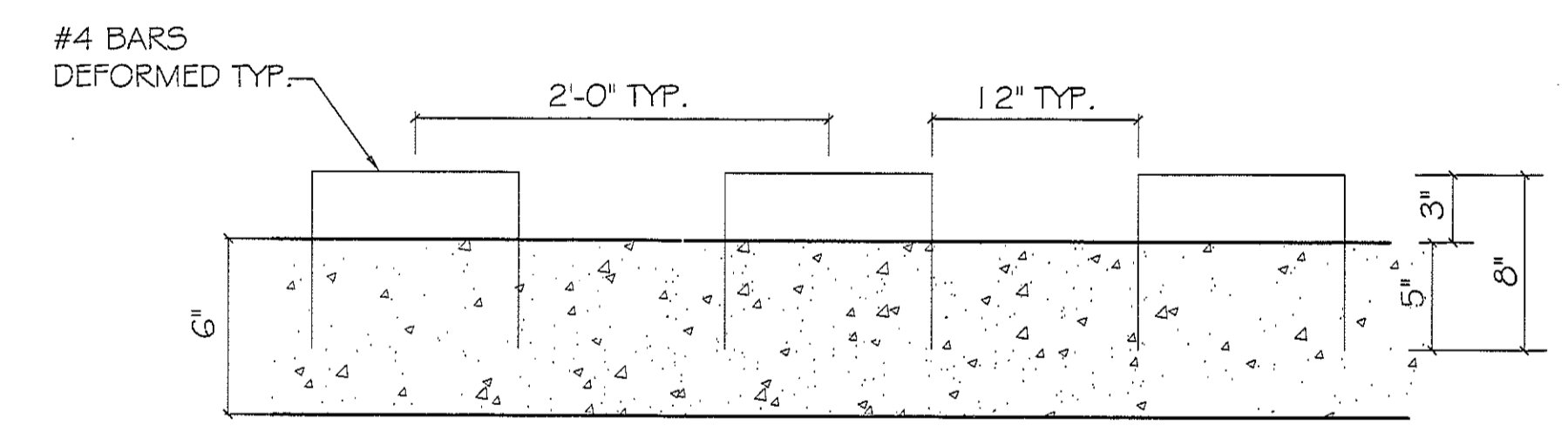
NOTE:
 ALL WATER SHALL SHEET FLOW INTO THE EXISTING CATCH BASINS LOCATED AT FRONT OF PROPERTY.

PAVING NOTES:

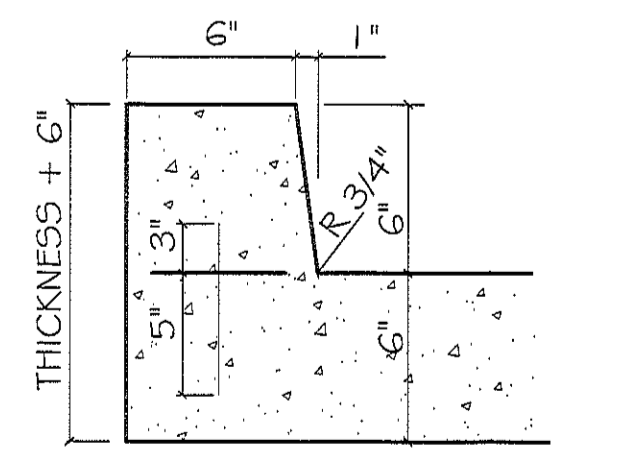
- 1) ALL NEW CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND A MINIMUM THICKNESS OF 6". CONCRETE MIX SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF ASTM C-150 TYPE 1.
- 2) ALL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
- 3) ALL REINFORCING STEEL SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT. ALL CONTROL AND EXPANSION JOINTS SHALL BE LOCATED AND INSTALLED AS SHOWN ON THE PAVING PLAN AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 4) ALL SUB GRADE FILL SHALL BE COMPACTED TO 95% PROCTOR.
- 5) ALL NEW PAVING SHALL MATCH EXISTING TO ALLOW PROPER SHEET FLOW OF WATER TO THE NORTH CATCH BASINS.



PAVEMENT JOINT DETAIL
N.T.S.

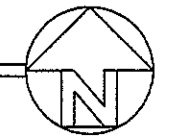


CURB DOWELS
N.T.S.



6" BARRIER CONCRETE CURB
N.T.S.

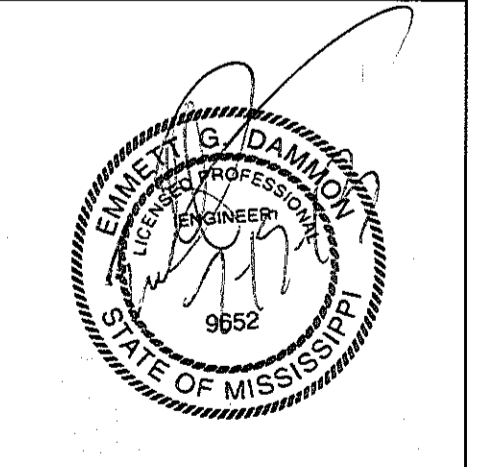
PAVING & DRAINAGE PLAN
 SCALE: 1"=20'-0"



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 CHIEF ENGINEER: EMMETT DAMMON, P.E.
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RAINFORREST CARWASH

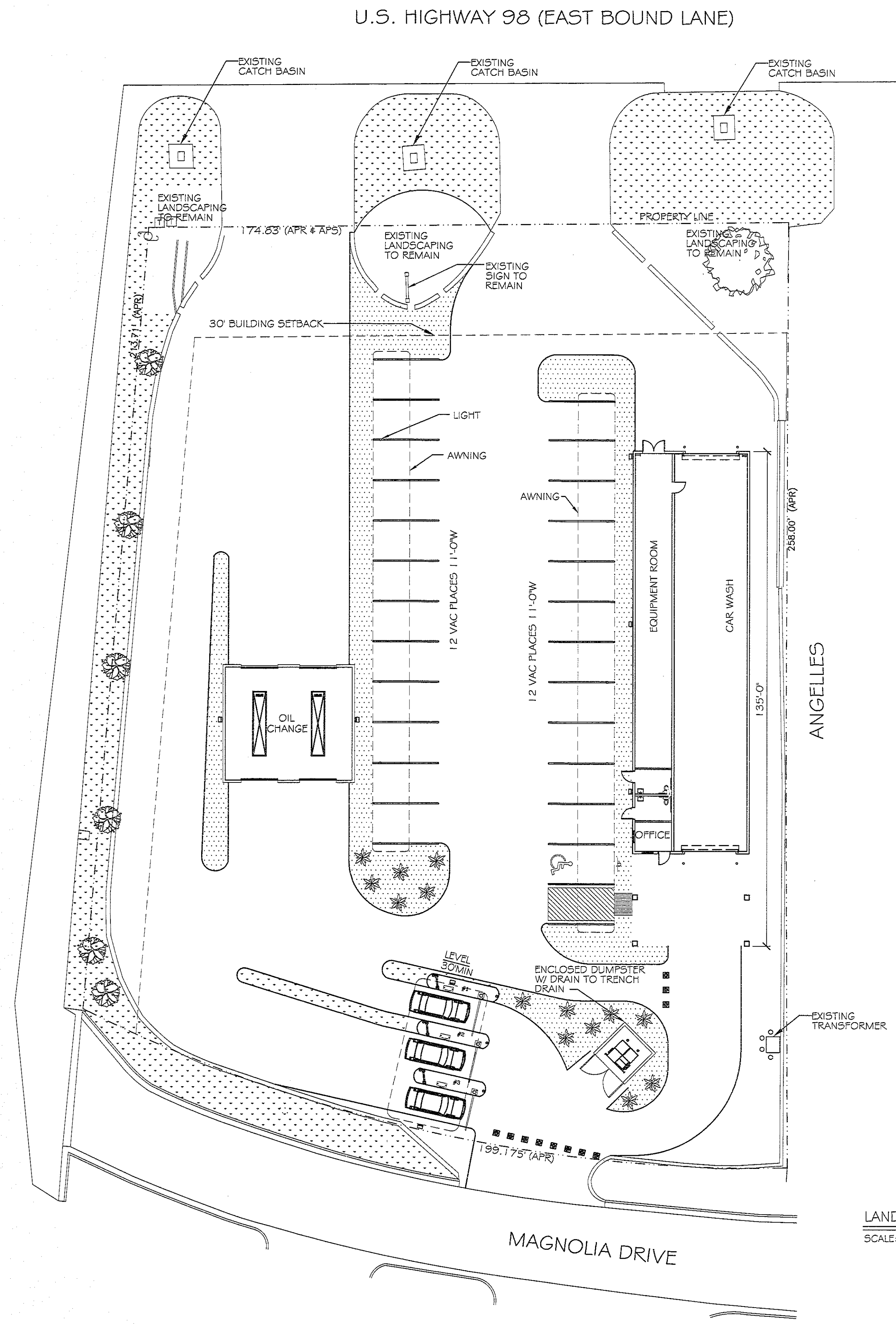
DATE	07-19-13
REVISIONS	
# DESCRIPTION	A ADDED RESTROOMS



PAVING & DRAINAGE PLAN

SHEET No: 3 OF 22

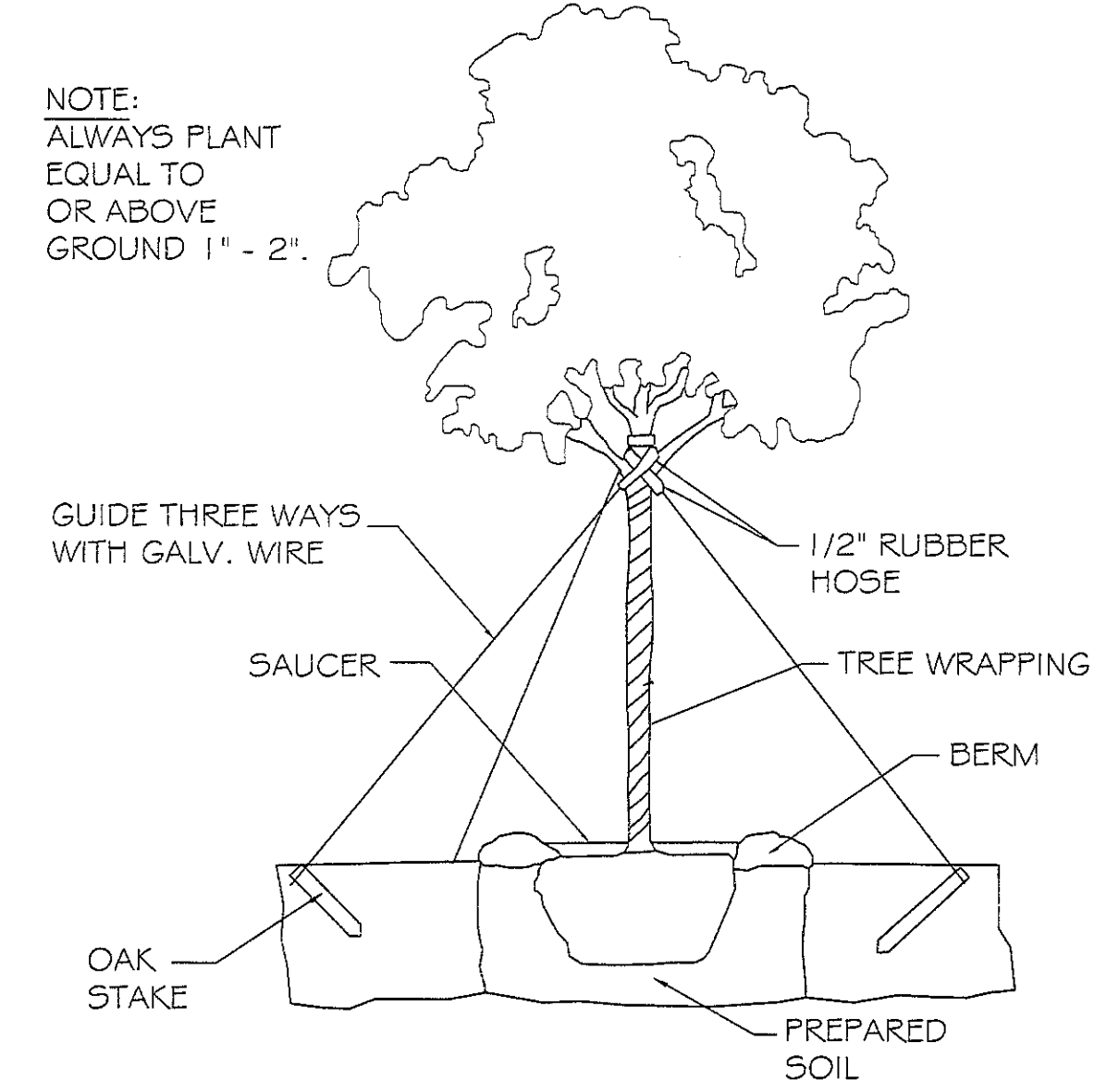
C-2



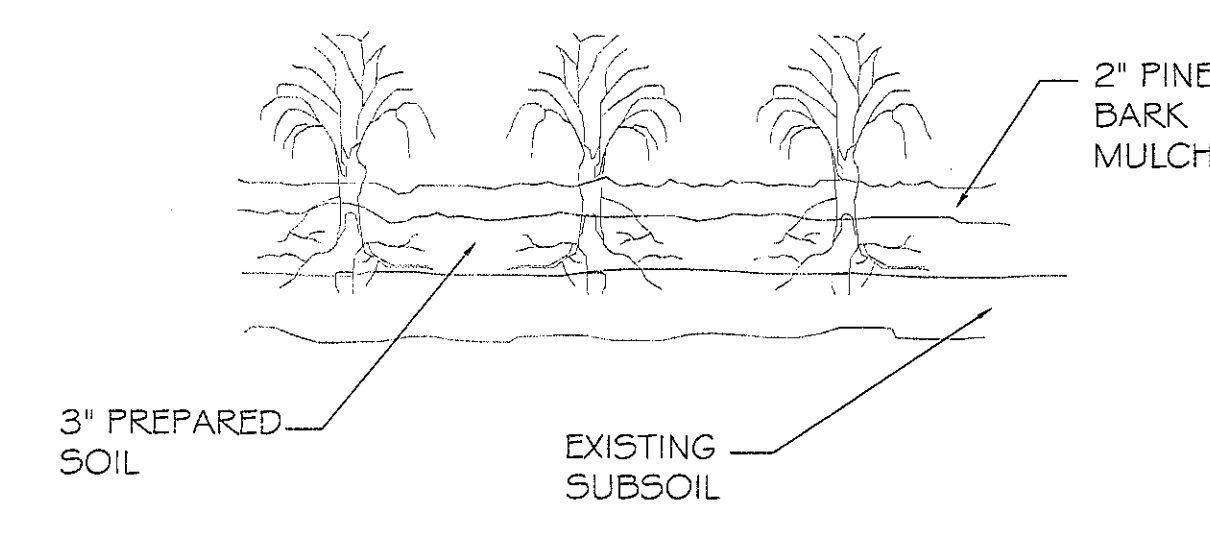
LEGEND

- DD BLANCHARD MAGNOLIA
ALL CLASS 'A' TREES, AT THE TIME OF PLANTING, SHALL HAVE A MINIMUM CALIPER OF AT LEAST TWO AND ONE-HALF (2 1/2) INCHES, MEASURED SIX (6") INCHES ABOVE THE ROOT BALL, AND A MINIMUM HEIGHT OF 10-12 FEET AND A MATURE HEIGHT OF 40' AS PER THE NATIONAL NURSERY ASSOCIATION STANDARDS.
- AZALEA
SHRUB: A RELATIVELY LOW-GROWING BUSHY PLANT, USUALLY WITH WOODY STEMS. FOR THE PURPOSES OF THIS DEFINITION, GROUND COVER, TREES AND ANNUALS ARE NOT CONSIDERED SHRUBS. ALL SHRUBS, AT THE TIME OF PLANTING, SHALL HAVE A MINIMUM HEIGHT OF TWO (2) FEET.
- GROUND COVER
- GRASS
- EXTERIOR LIGHTING

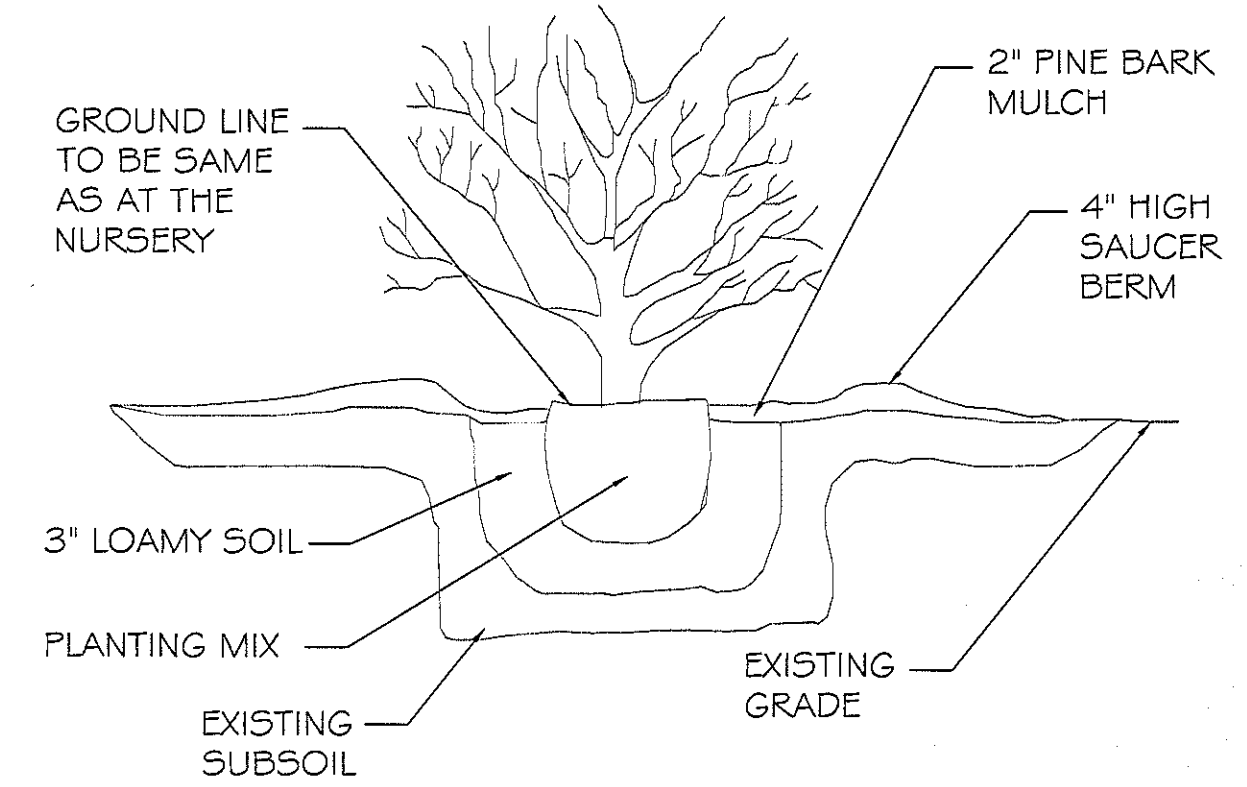
NOTE:
ALWAYS PLANT
EQUAL TO
OR ABOVE
GROUND 1" - 2".



TYPICAL TREE PLANTING DETAIL
N. T. S.



GROUND COVER DETAIL
N. T. S.

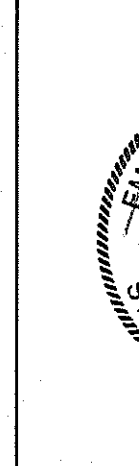


SHRUB DETAIL
N. T. S.

LANDSCAPING PLAN
SCALE: 1"=20'-0"

RAINFORREST CARWASH

REVISIONS	DATE
# DESCRIPTION	
A ADDED RESTROOMS	07-19-13



LANDSCAPING PLAN

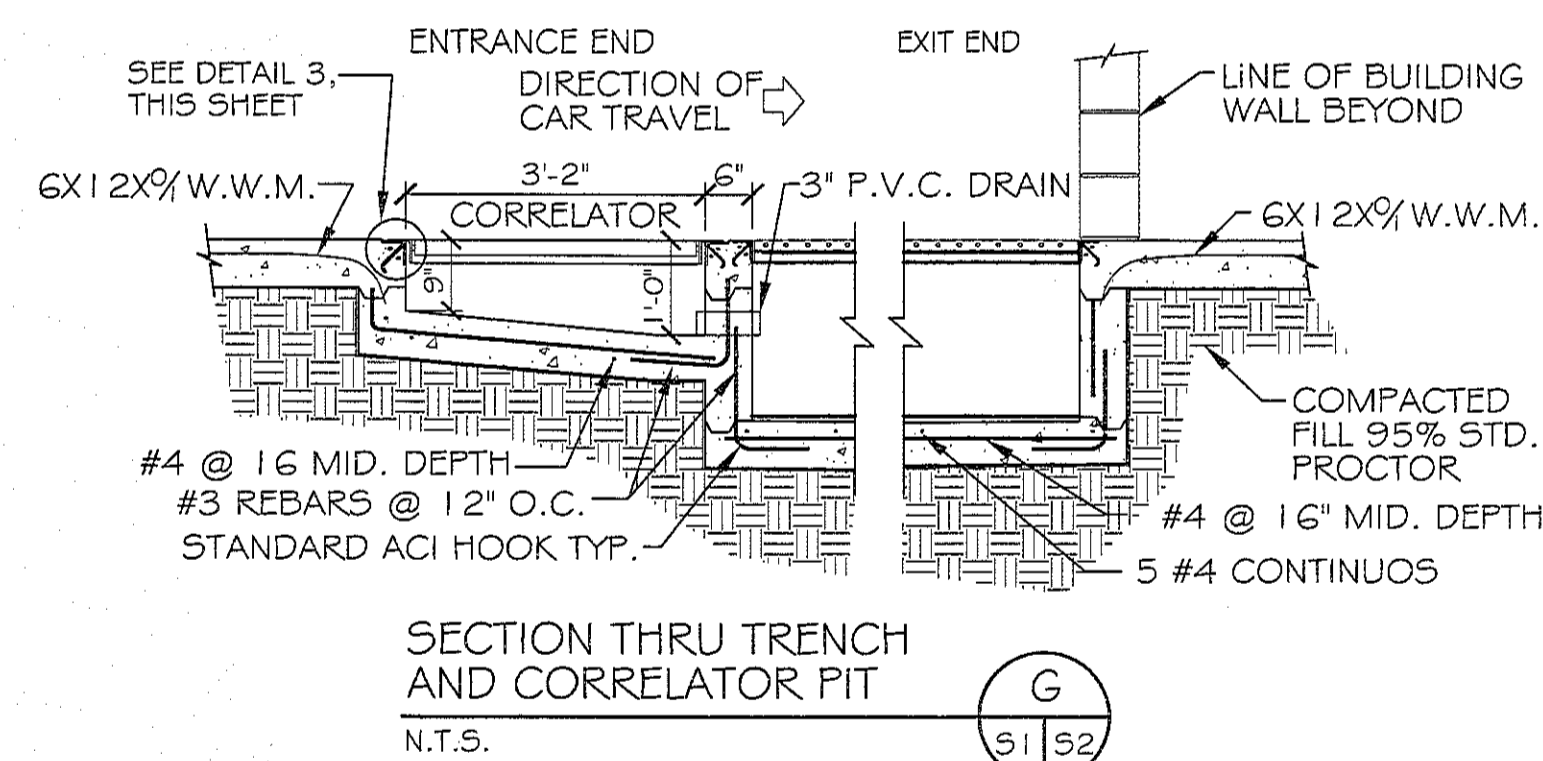
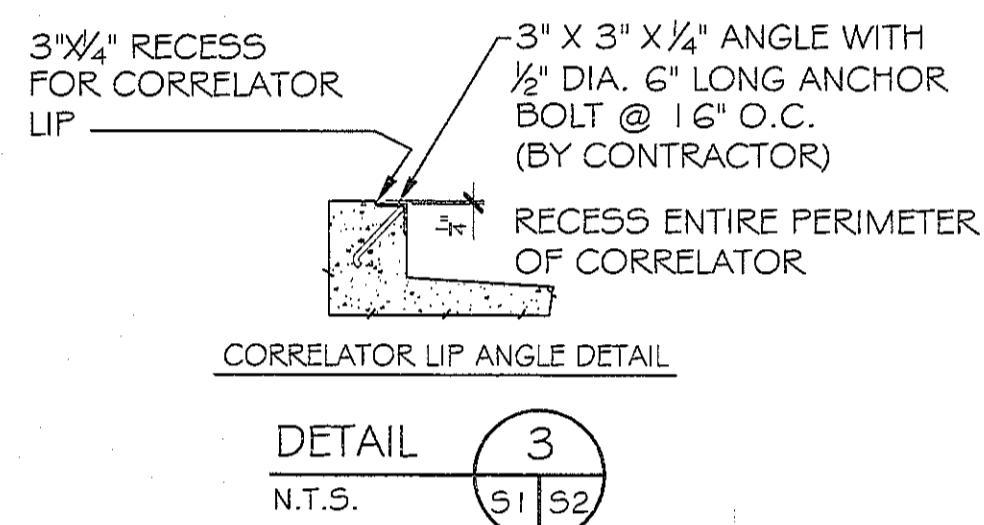
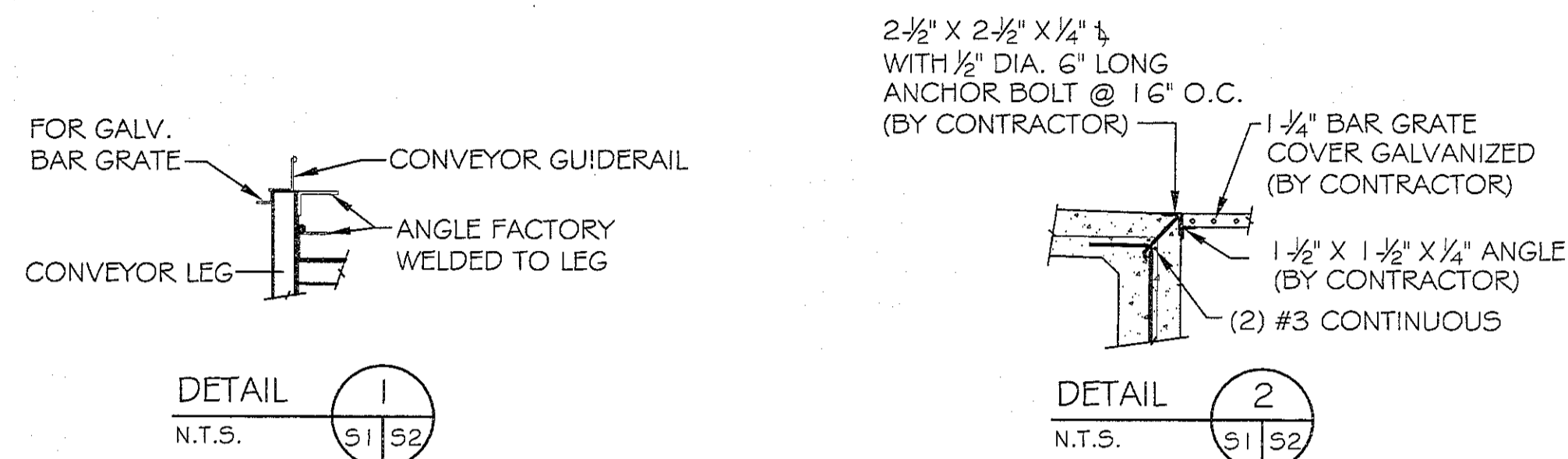
SHEET No: 4 OF 22

C-3

DAMMON ENGINEERING, INC.

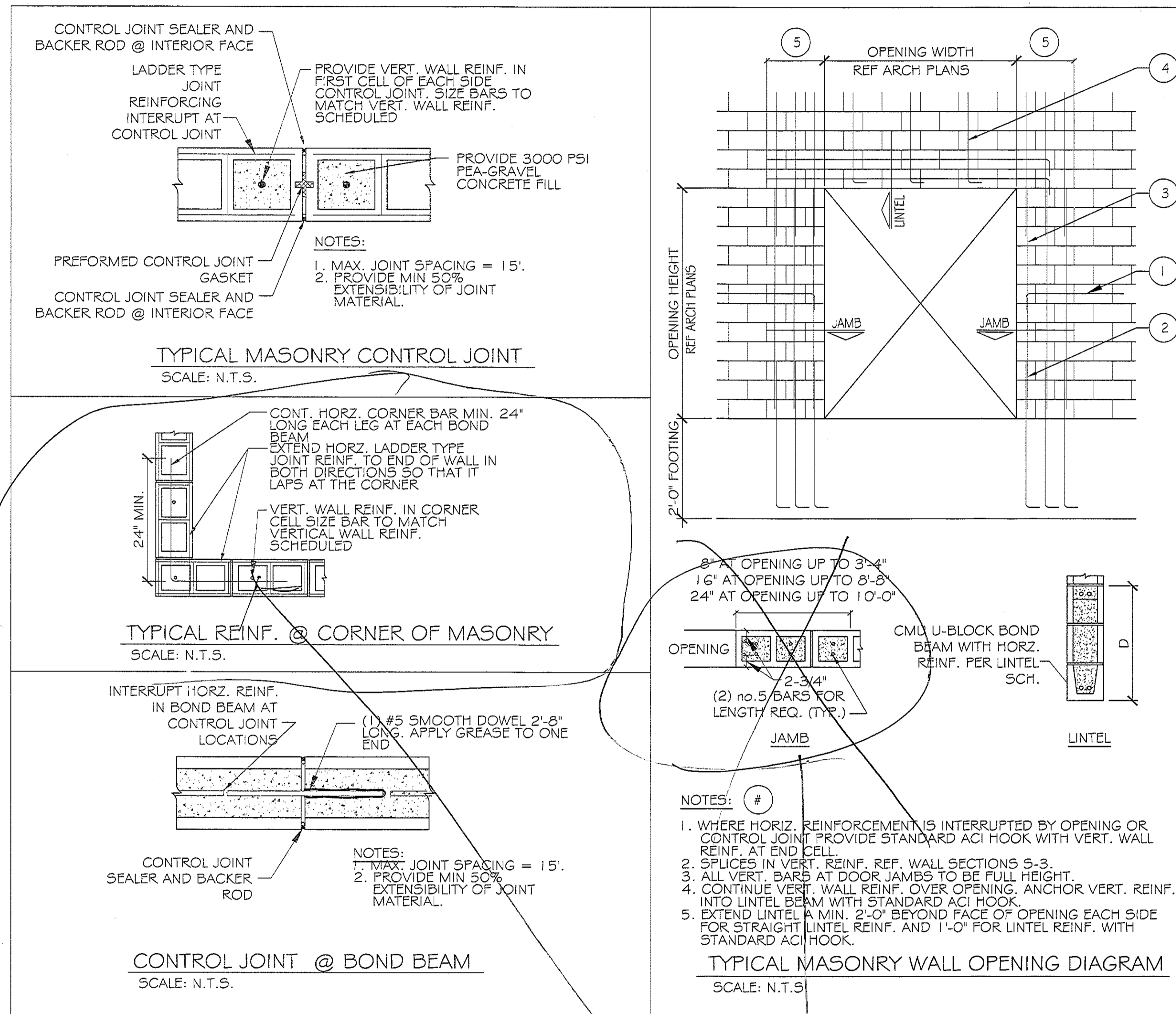
CHIEF ENGINEER: EMMETT DAMMON, P. E.
5026 HARDY ST.
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JOB No: 2176 DATE: 06-28-2013 CHECKED BY: CD
DRAWN BY: JCT

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CMU LINTEL SCHEDULE			
WIDTH (W)	CLEAR SPAN	DEPTH (D)	HORZ. REINF.
8' TYP AT ALL CMU WALLS	UP TO 3'-4"	8"	(1) #6 BOTTOM
	UP TO 6'-4"	16"	(1) #6 T#B
	UP TO 14'-0"	24"	(2) #6 T#B

PROVIDE 3000 PSI PEA-GRAVEL CONCRETE FILL FOR ALL LINTELS.



Field Verify Vertical reinforcing & Concrete fill

Engineer cert. required for structural masonry walls per IBC 1704.5

#	DESCRIPTION	DATE
A	ADDED RESTROOMS	07-19-13

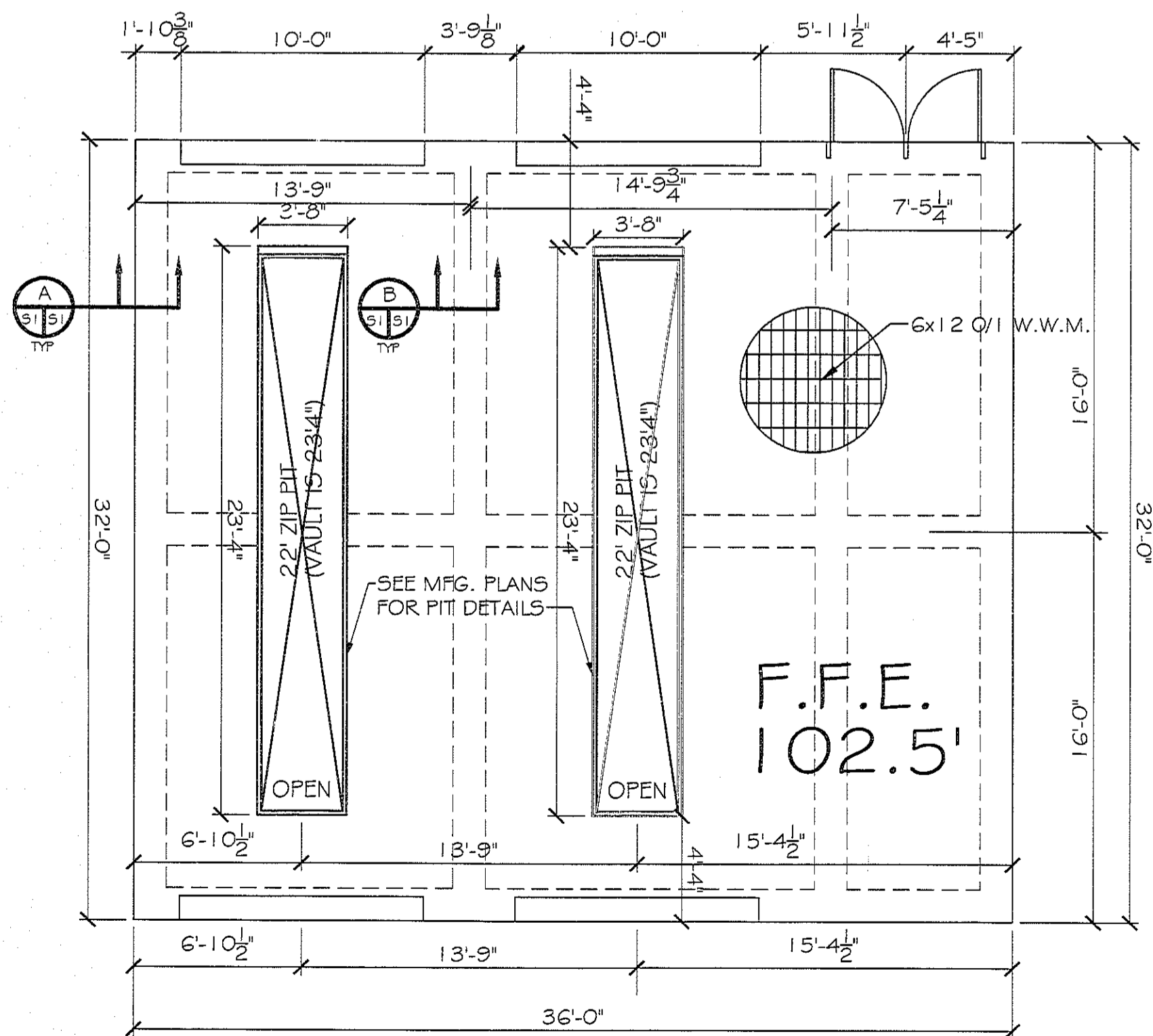
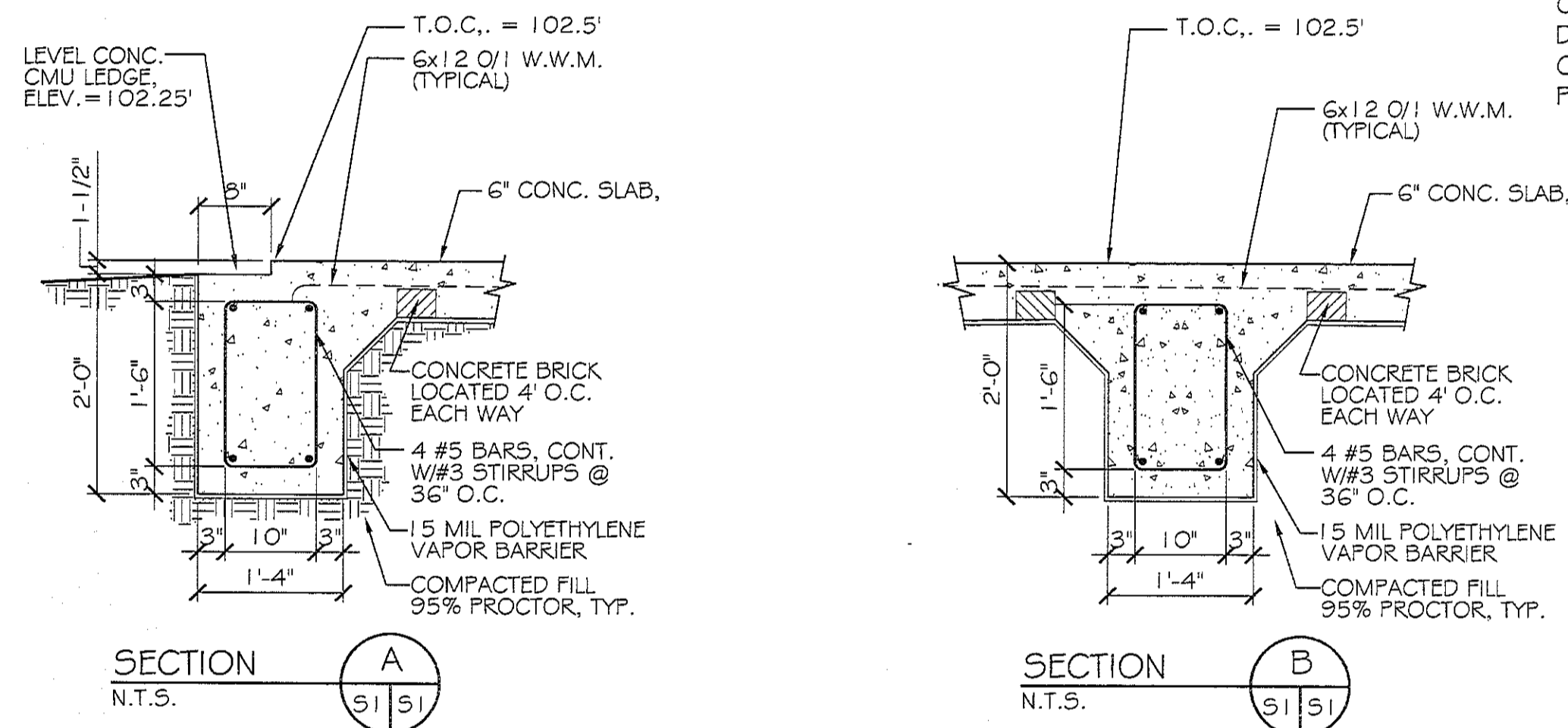


CARWASH FOUNDATION DETAILS

GENERAL FOUNDATION NOTES

1. THE CONCRETE MIX SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI-318.
2. ALL CONVENTIONAL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
3. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. VAPOR RETARDER TO BE 15 MIL, STRENGTH; ASTM E 1745 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP, ECOSHIELD-E 15 MIL BY EPRO, OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
4. ALL REINFORCING STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
5. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, CMU LEDGES, DIMENSIONS AND CONFIGURATIONS. CONTRACTOR MUST BE RESPONSIBLE FOR SAME.
6. GRADE BEAM SIZES MAY VARY BY -5%, +20%.
7. ALL SUB GRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6" LIFTS.
8. A MINIMUM OF 6" CONCRETE SHALL BE MAINTAINED THROUGHOUT THE SLAB.
9. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
10. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
11. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATIONS BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.
12. NEW SPREAD CONCRETE FOOTINGS AND CONTINUOUS FOOTINGS, BEARING ON COMPACTED STRUCTURAL FILL AT LEAST 2 FEET BELOW FINISHED GRADE, SHOULD BE DESIGNED FOR MAXIMUM NET ALLOWABLE BEARING PRESSURES OF 1,200 PSF AND 2,000 PSF, RESPECTIVELY, BASED ON DEAD LOADS AND DESIGN LIVE LOADS.
13. BASED ON THE RESULTS OF THE FIELD AND LABORATORY TEST AND THE ANTICIPATED FOUNDATION LOADS, ESTIMATED MAXIMUM FOUNDATION SETTLEMENTS SHOULD NOT EXCEED 1/2 INCH. DIFFERENTIAL SETTLEMENT IS ESTIMATED TO BE LESS THAN 1 INCH.
14. TREAT SOIL BELOW SLAB FOR TERMITES.

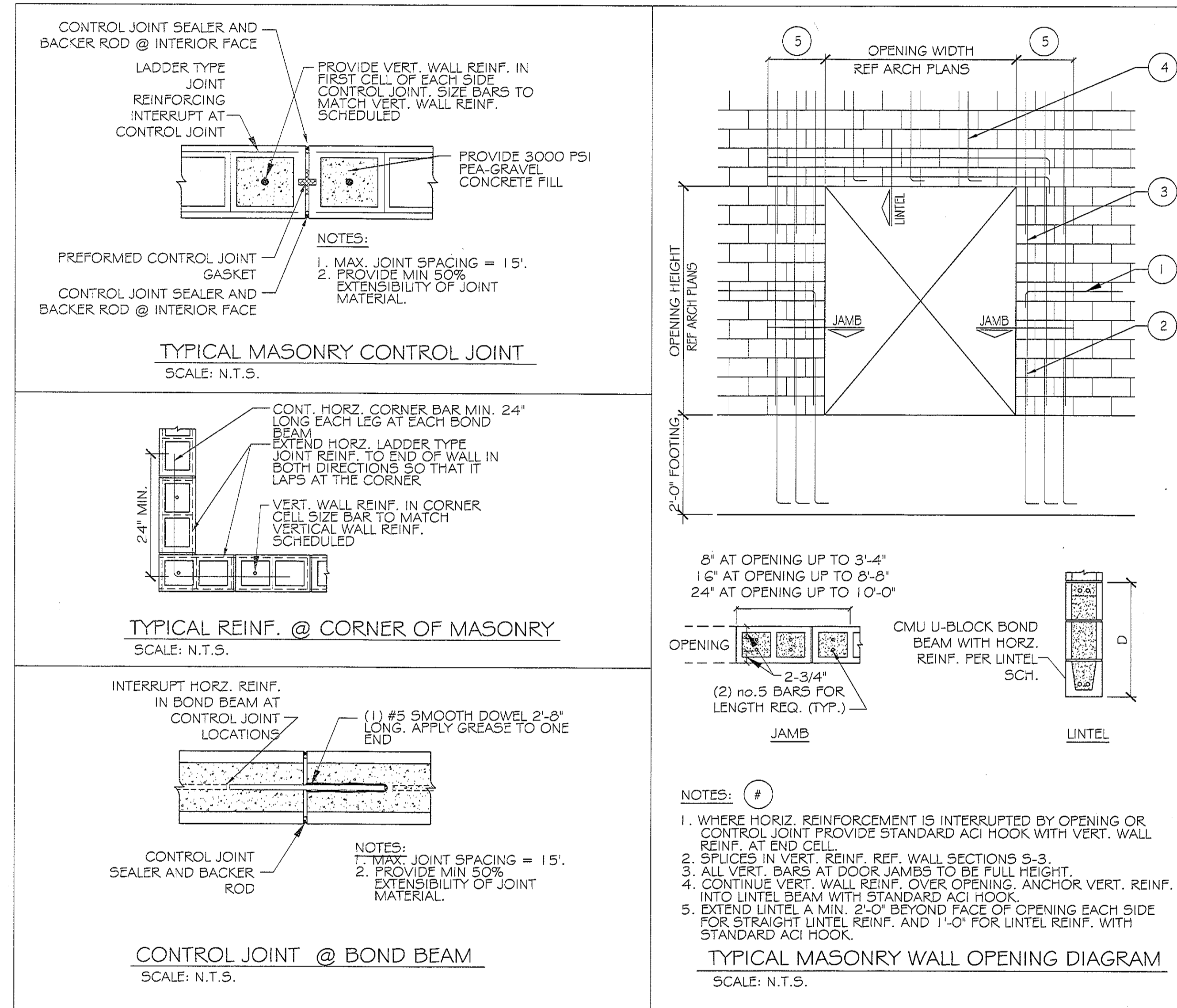
NOTE:
COORDINATE WITH EQUIPMENT MANUFACTURER DRAWINGS AND PROVIDE EQUIPMENT ELECTRICAL, CONDUIT, WIRING, AND PLUMBING REQUIREMENTS PRIOR TO COMMENCING ANY WORK.



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

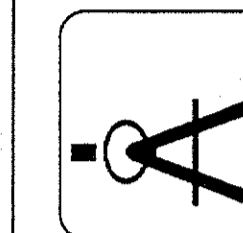
CMU LINTEL SCHEDULE			
WIDTH (W)	CLEAR SPAN	DEPTH (D)	HORZ. REINF.
8' TYP AT ALL CMU WALLS	UP TO 3'-4"	8"	(1) #6 BOTTOM
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PROVIDE 3000 PSI PEA-GRAVEL CONCRETE FILL FOR ALL LINTELS.



RAINFOREST CARWASH

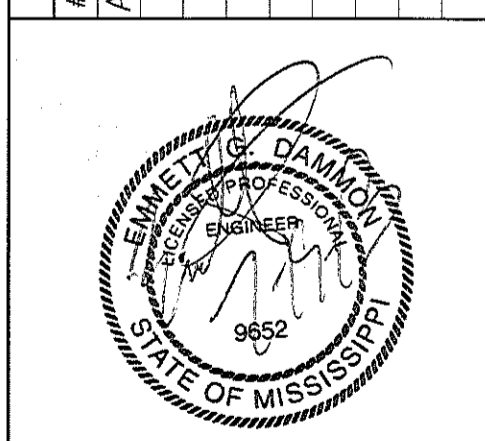
DAMMON ENGINEERING



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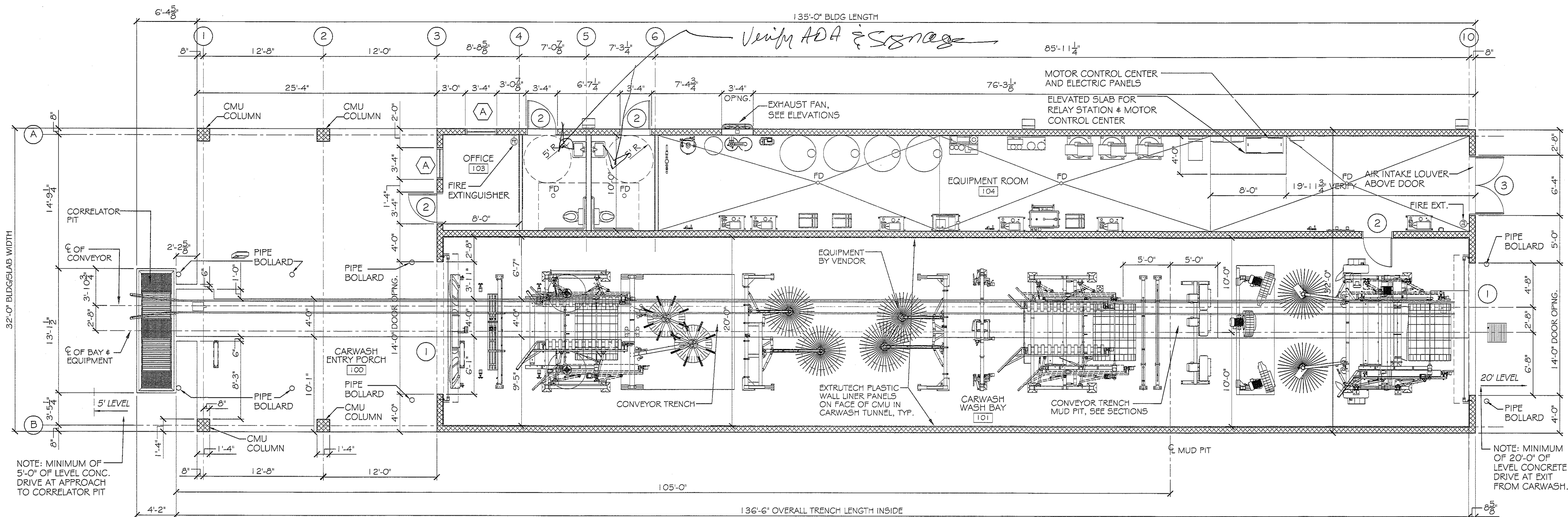
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OIL CHANGE FOUNDATION PLAN AND DETAILS

SHEET No: 7 OF 22

S-3



CARWASH BUILDING FLOOR PLAN

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

NEW FIRE EXTINGUISHER IN ACCORDANCE W/ NFPA 10

NOTE: SEE EQUIPMENT SUPPLIER'S DRAWINGS FOR EQUIPMENT'S ELECTRICAL, CONDUIT, WIRING, AND PLUMBING REQUIREMENTS PRIOR TO COMMENCING ANY WORK.

GENERAL NOTES

- INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF SECTION 719.
 - CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-25 AND SMOKE DEVELOPED INDEX OF 0-450. EXCEPT THAT IN COMBUSTIBLE (WOOD FRAME) CONSTRUCTION.
 - FACING SHALL COMPLY WITH IBC 2006.
- PROVIDE 5' WIDE (MIN.) LANDINGS, LEVEL WITH FINISHED FLOOR, OUTSIDE EXTERIOR DOORS, SEE SITE PAVING PLAN. THRESHOLDS SHALL BE NOT MORE THAN 1/2" IN HEIGHT AND SHALL BE BEVELED IF MORE THAN 1/4".
- DIMENSIONS ARE TO CENTERLINE, FACE OF CMU, CENTER OF COLUMNS, OR FACE OF RIGID FRAME.
- CONTRACTOR TO VERIFY ALL SITE CONDITIONS, BUILDING LOCATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION.
- MATERIALS SHALL BE NEW AND U.L. LISTED.
- NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
- CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE, AND LOCAL CODES.
- CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR.
- CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
- EXTERIOR CAULKING SHALL BE DOW CORNING 790 SILICONE, INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION WITH ARCH/OWNER TO SELECT COLOR. INTERIOR CAULKING TO BE EQUAL TO DAP PAINTABLE LATEX WITH SILICONE.
- PAINT GRADE TO SHALL BE SHERWIN WILLIAMS OR EQUIVALENT. ALL WORK TO RECEIVE 3 COATS. COLOR SELECTION BY OWNER. EPOXY FOR CARWASH BAY TO BE CHOSEN BY OWNER AND APPLIED PER OWNER'S DIRECTIONS.
- PROVIDE CLEANUP ON A REGULAR BASIS. NO TRASH STORED IN BUILDING.
- ALL INSULATION SHALL HAVE A CLASS "A" (0-25) FLAME SPREAD IN COMPLIANCE WITH APPLICABLE CODE.
- PROVIDE GALVANIZED METAL PAN WITH DRAIN AT WATER HEATER LOCATION.
- FLOORING SHALL BE NON-SLIP.
- INTERIOR LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL DEVICE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.
- INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450.
- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES COVERING THE TYPE OF WORK BEING PERFORMED.
- PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 101. SEE APPENDIX "E" OF NFPA 101 FOR DISTRIBUTION OF EXTINGUISHERS.
- ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF SHEATHING, AND BE SEALED WITH AN APPROVED FIRE CAULK.
- ALL ELECTRICAL, MECHANICAL, AND PLUMBING MATERIALS PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

DOOR & HARDWARE SCHEDULE (X)

		TYPE	FRAME	HINGE	LOCK	ACCESSORIES	REMARKS
1	1 1/4 x 10/0	ROLL-UP HOLLOW METAL	STEEL TRACK HOLLOW METAL	BUTT 1-1/2 FR	KEYED ENTRY DEADBOLT PRIVACY SLIDE BOLT	WEATHERSTRIP DOOR STOP DOOR CLOSER SEAL PROOFING SIDE LITE VENT/GRILLE	OVERHEAD DR. SEE ELEVATIONS
2	3/0 x 7/0						
3	(2) 3/0 x 7/0						

DOOR & HARDWARE NOTES:

- DOOR HINGES TO BE STANLEY FULL MORTISE STANDARD WEIGHT, BALL BEARING HINGES, STAINLESS STEEL WITH SATIN FINISH.
- PROVIDE ADA APPROVED LOCKSETS WITH SATIN STAINLESS STEEL FINISH, TO BE SELECTED BY OWNER.
- COORDINATE KEYING SCHEDULE WITH OWNER.
- DOOR STOPS TO BE EQUAL TO IVES NO. 436 OR 437, AS REQUIRED IN MATCHING SATIN STAINLESS STEEL FINISH.
- WEATHER-STRIP & THRESHOLD FINISH TO COMPLEMENT OTHER HARDWARE.

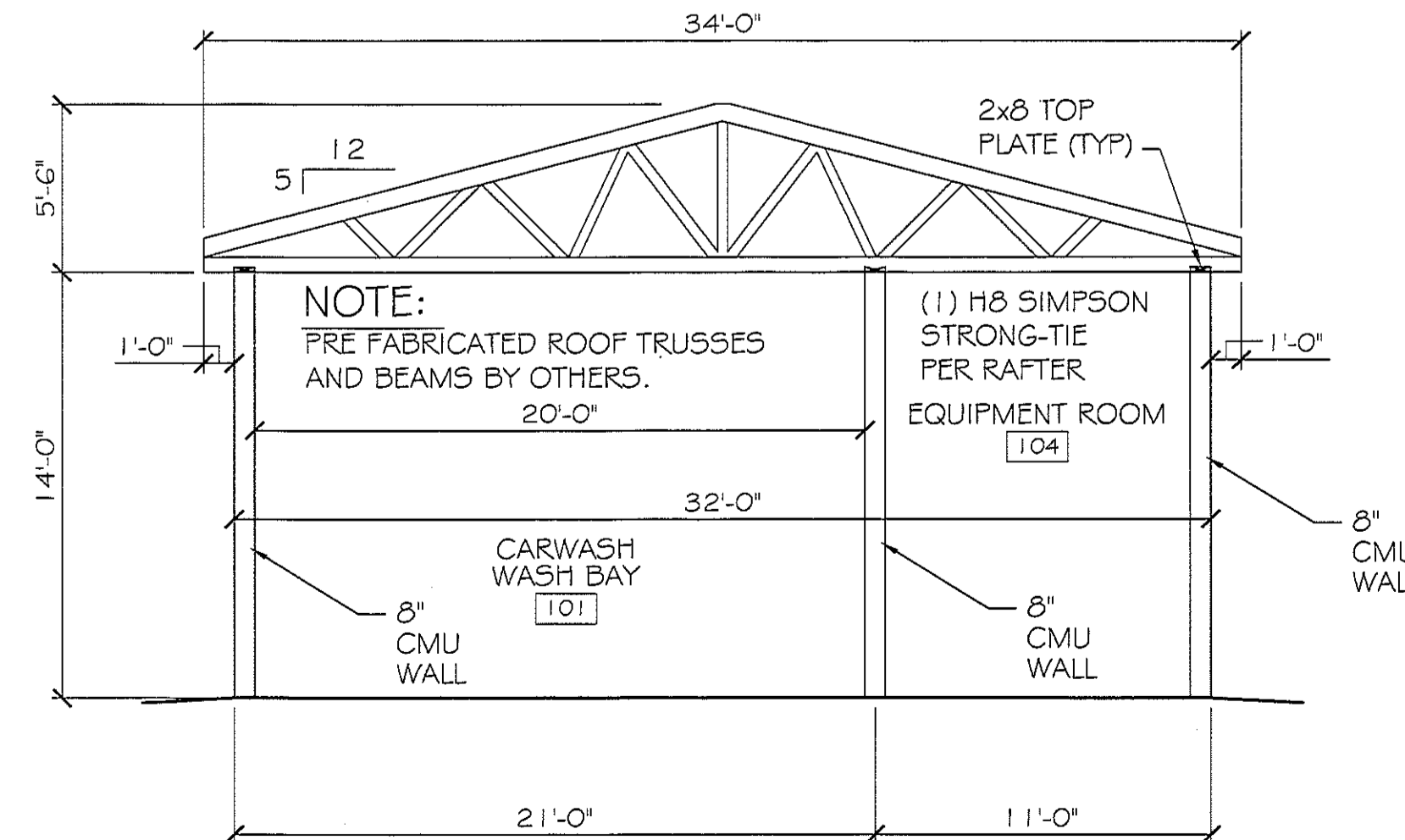
WINDOW SCHEDULE

	TYPE	FRAME	GLASS	LITES	ACCESS.	REMARKS
WINDOW (HT. x WIDTH)	FIXED ALUM. STOREFRONT	ALUM. HOLLOW METAL WOOD	TINTED TEMPERED INSULATED NONE	SEE ELEVATION NONE	SCREEN SHUTTER ALARM NONE	SEE ELEVATIONS FIXED ALUMINUM
3	3/4 x 3/4					

NOTE: WINDOW ASSEMBLIES TO BE RATED FOR 110 MPH WINDS AND SHALL BE MISSILE IMPACT RESISTANT.

FINISH SCHEDULE

NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
WASH BAY	CONCRETE	CONCRETE	6" RUBBER WALL BASE	PAINTED CMU EPOXY COATED	
OFFICE	CONCRETE	CONCRETE	6" RUBBER WALL BASE	PAINTED CMU EPOXY COATED	
RESTROOM	CONCRETE	CONCRETE	6" RUBBER WALL BASE	PAINTED CMU EPOXY COATED	
EQUIPMENT ROOM	CONCRETE	CONCRETE	6" RUBBER WALL BASE	PAINTED CMU EPOXY COATED	
OWNER TO SELECT STYLE, COLOR, AND BRAND					



TYPICAL SECTION

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

RAINFOREST CARWASH

5026 HARDY ST. HATTIESBURG, MISSISSIPPI

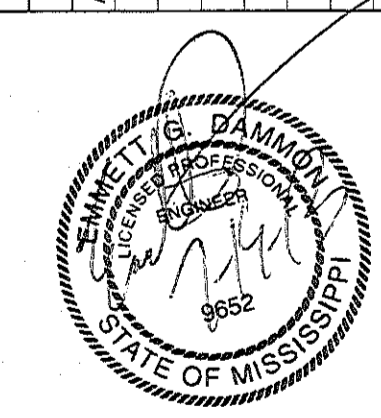
JOB No: 2176

DRAWN BY: JTL

DATE: 06-28-2013

CHECKED BY: CD

#	DESCRIPTION	DATE
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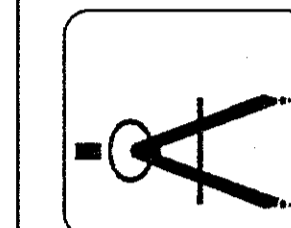


CARWASH BUILDING FLOOR PLAN

SHEET No: 8 OF 22

A-1

DAMMON ENGINEERING, INC.



CHIEF ENGINEER: EMMETT DAMMON, P.E.

REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSISSIPPI

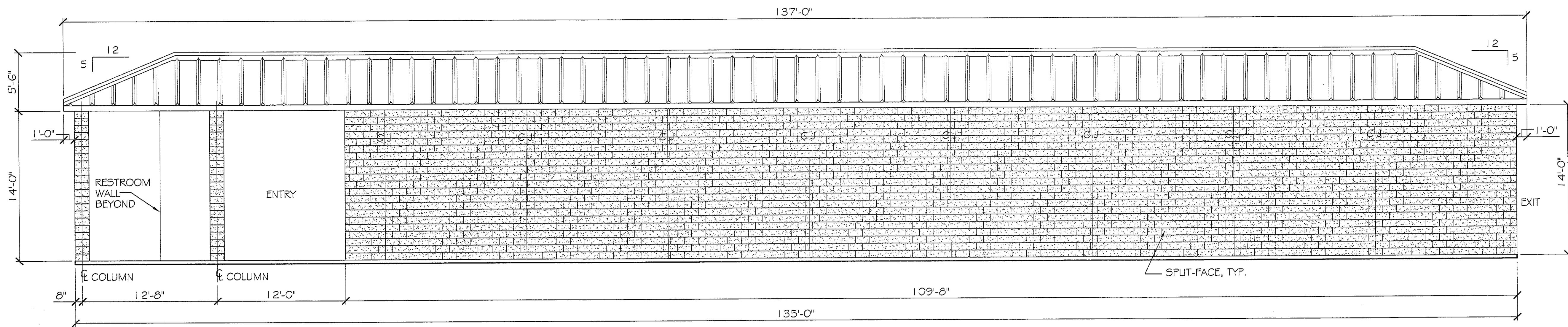
NO. 10000

SUDRELL, LA 70466

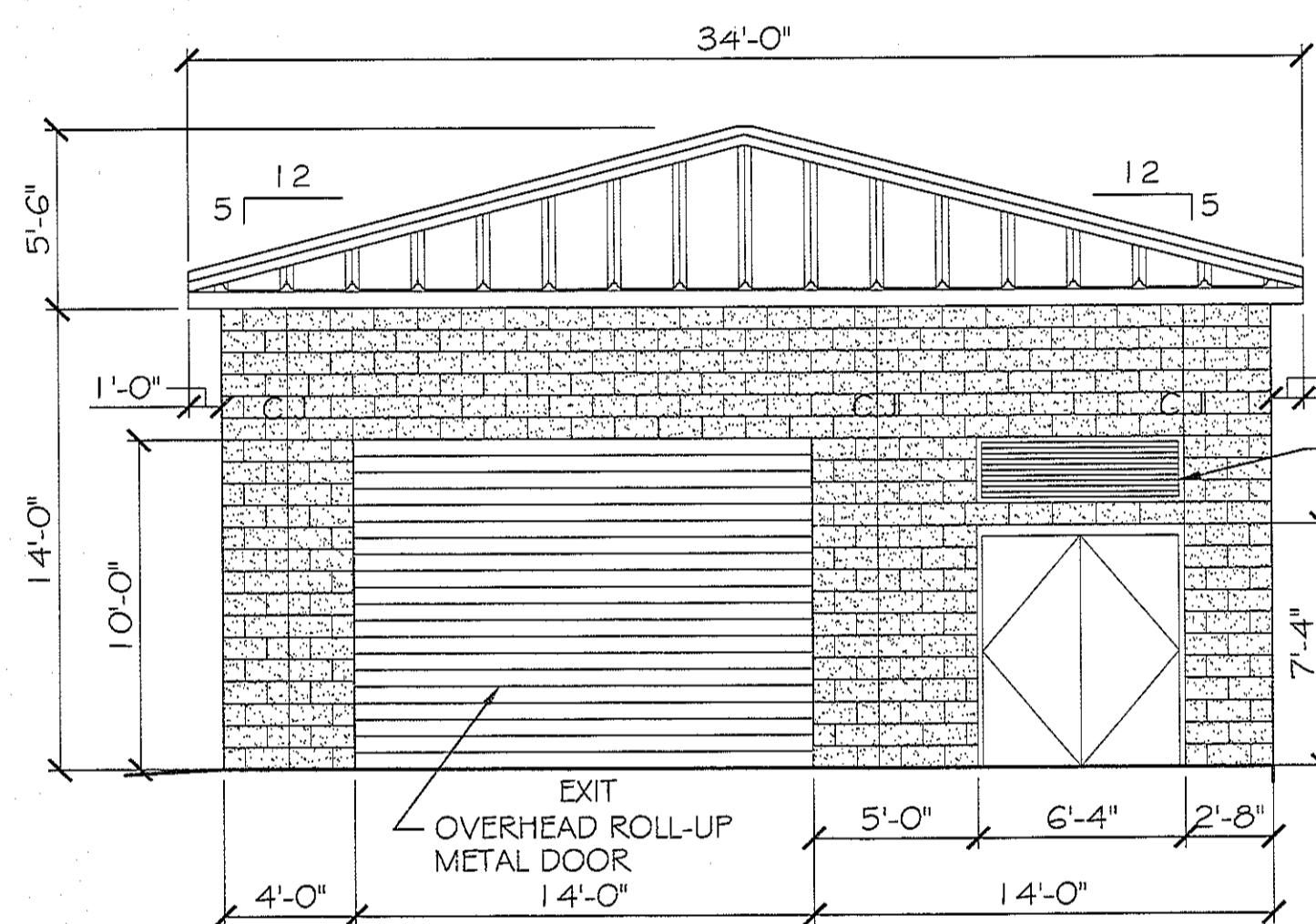
PHONE: 985-649-5932

FAX: 985-641-5950

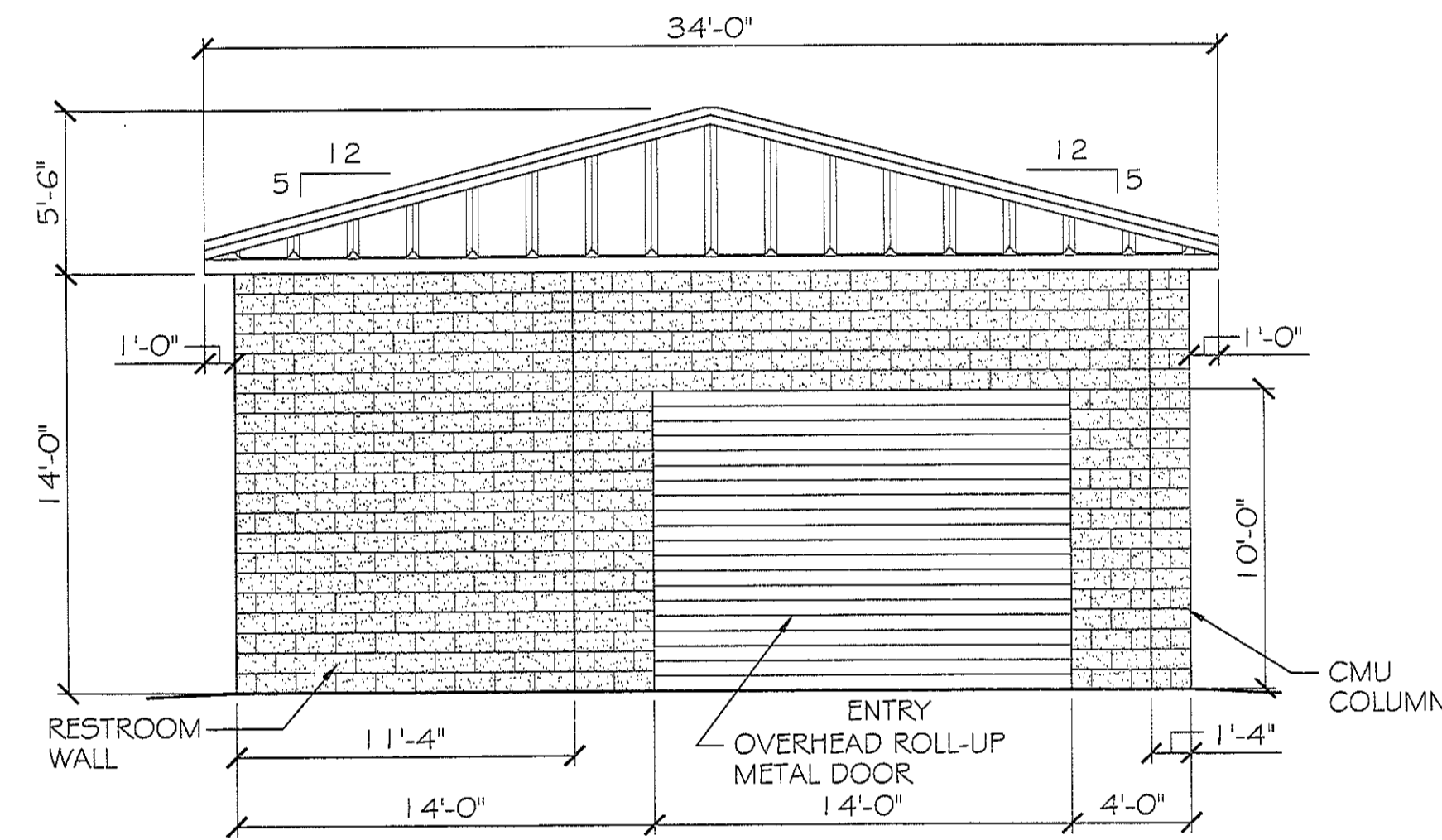
dammonengineering.com



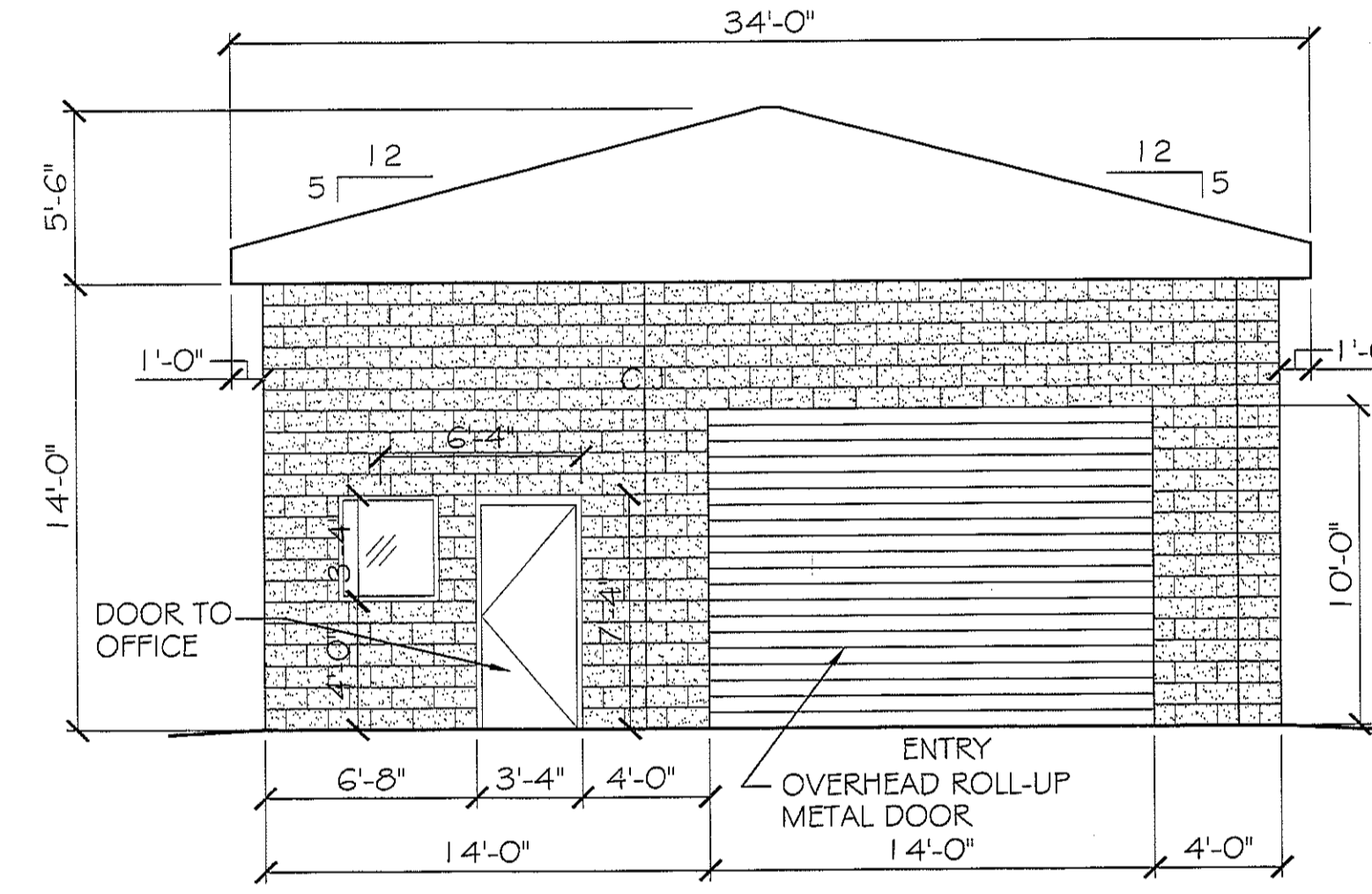
SIDE ELEVATION
SCALE: 3/16"=1'-0"



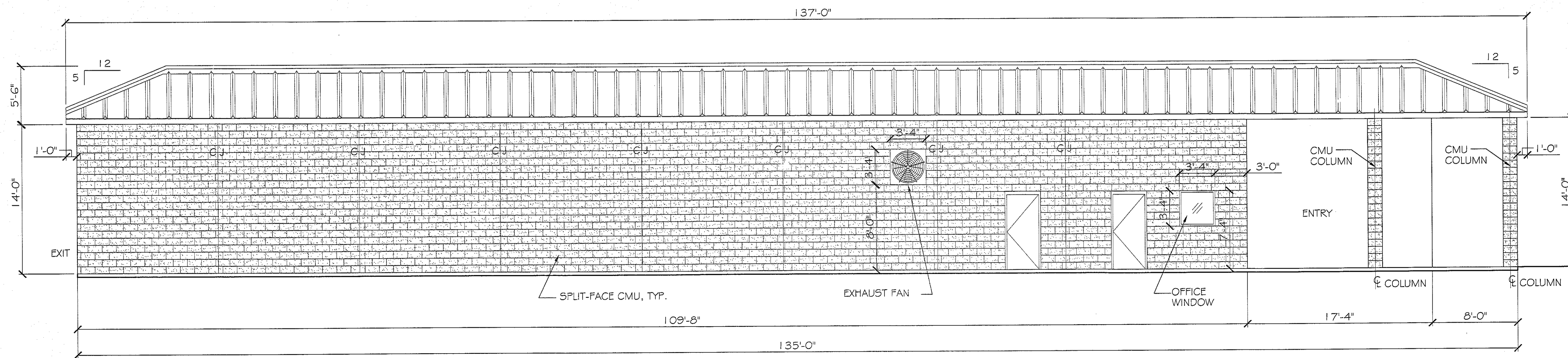
END (EXIT) ELEVATION
SCALE: 3/16"=1'-0"



END (ENTRY) ELEVATION
SCALE: 3/16"=1'-0"



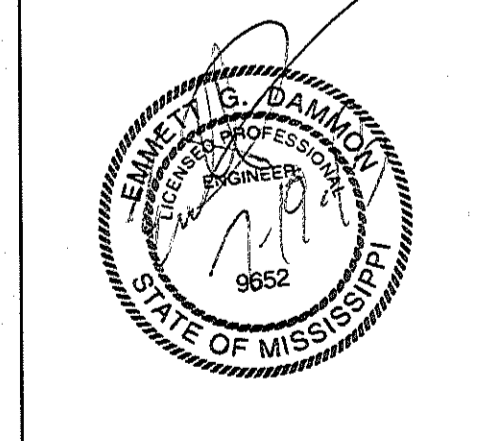
COVERED (ENTRY) ELEVATION
SCALE: 3/16"=1'-0"



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

RAINFOREST CARWASH

REVISIONS	DATE
# DESCRIPTION	07-19-13
A ADDED RESTROOMS	



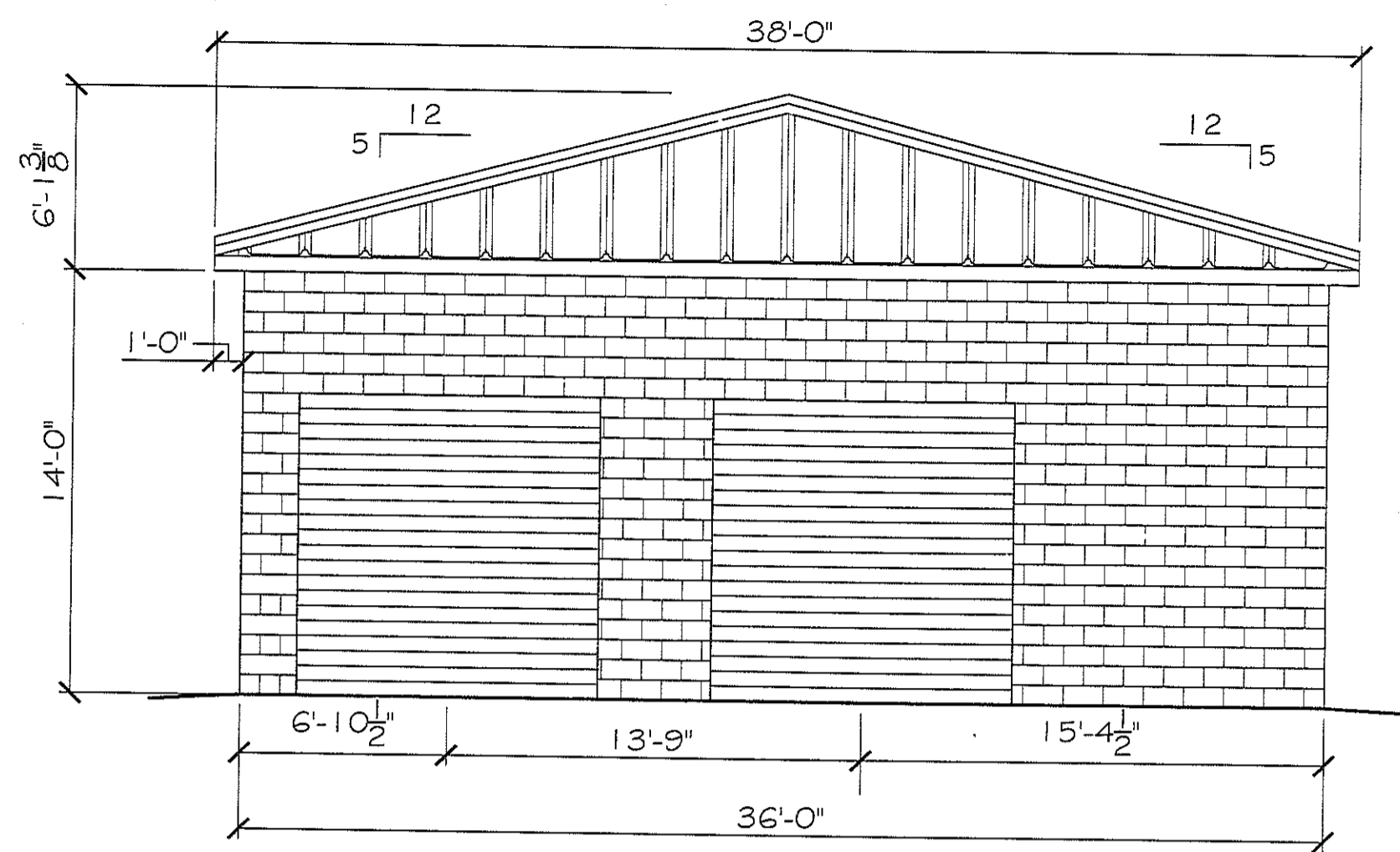
CARWASH EXTERIOR ELEVATION PLAN

SHEET No: 9 OF 22

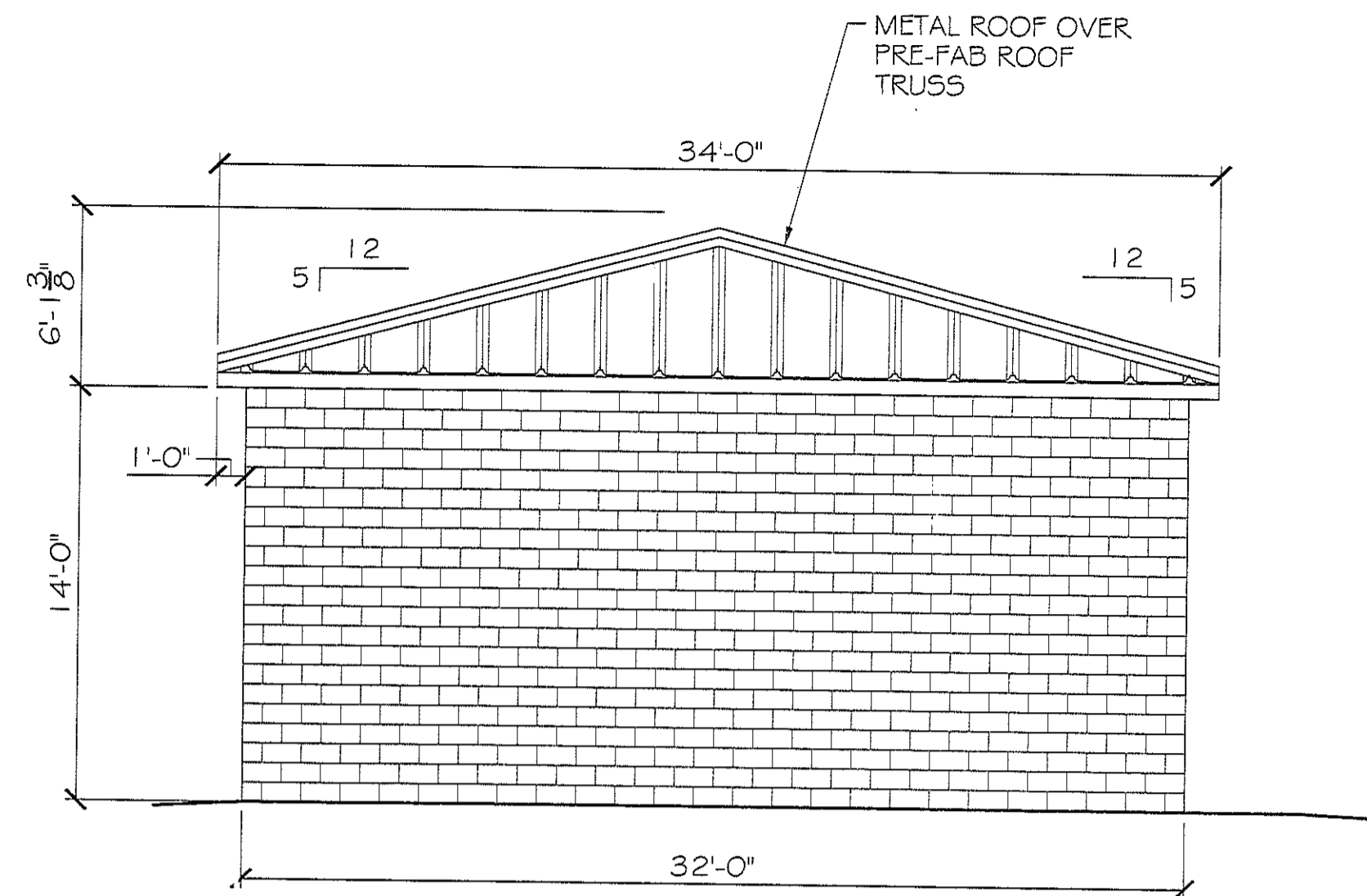
A-2

DAMMON ENGINEERING, INC.
 dammonengr.com
 dammonengr@bellsouth.net
 PHONE: 905-649-5032
 FAX: 905-641-5950
 CHIEF ENGINEER: DAMON DAMMON, P.E.
 554 OLD SPANISH TRAIL
 SUITE 100
 SLIDELL, LA 70458

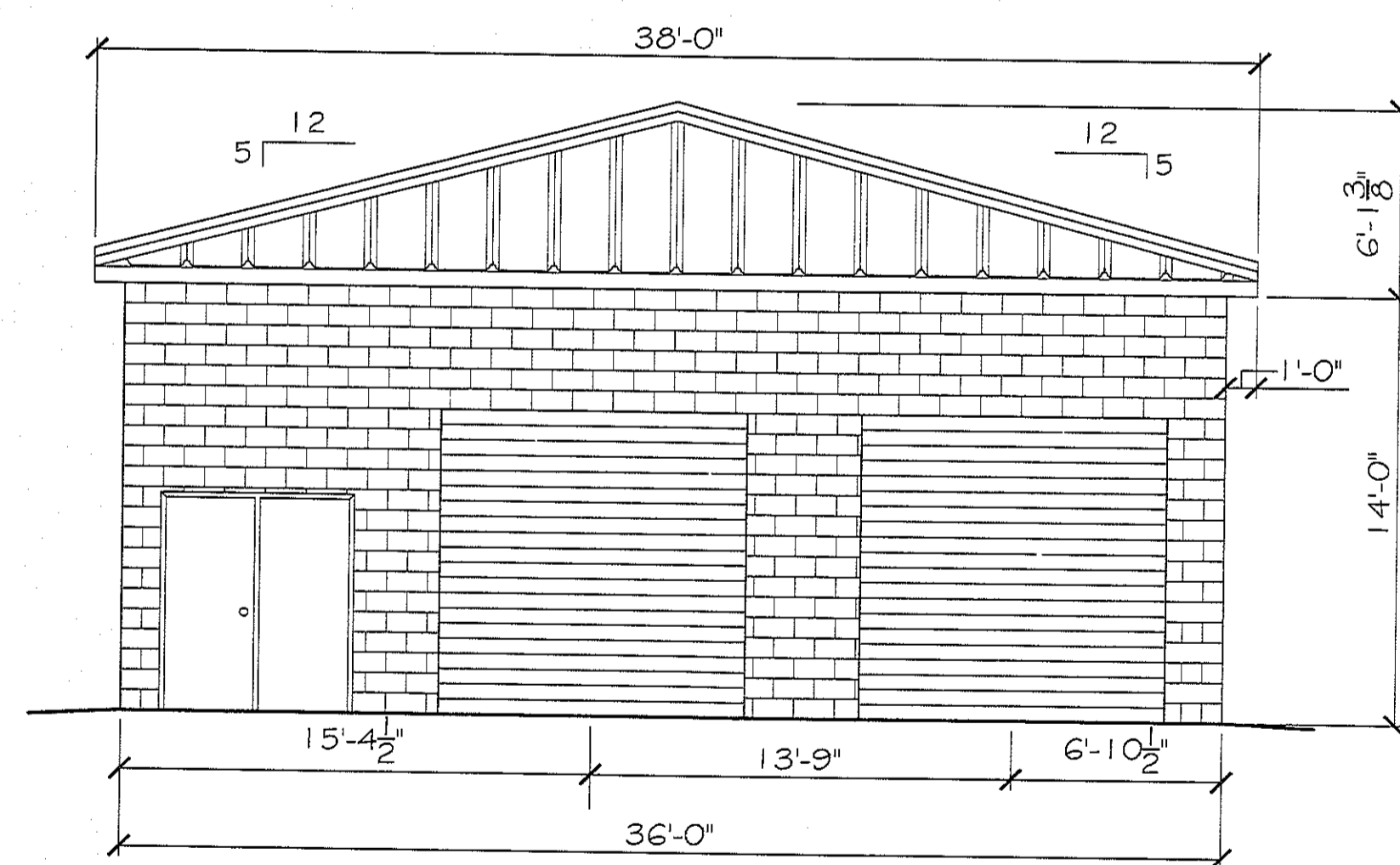
JOB No:	2176	DATE:	06-25-2013
DRAWN BY:	JCT/JTL	CHECKED BY:	CD



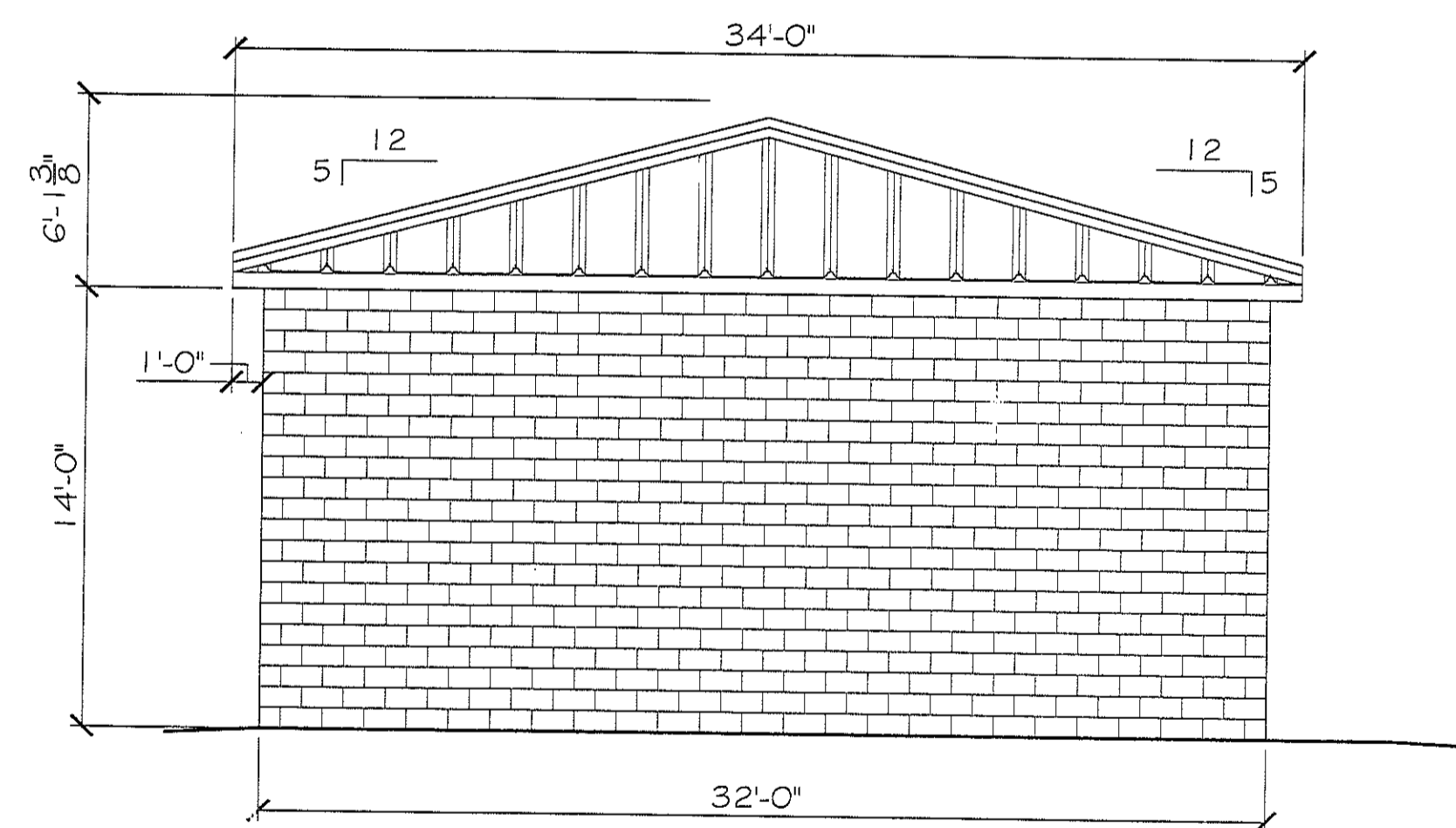
ENTRY ELEVATION
SCALE: 3/16" = 1'-0"



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



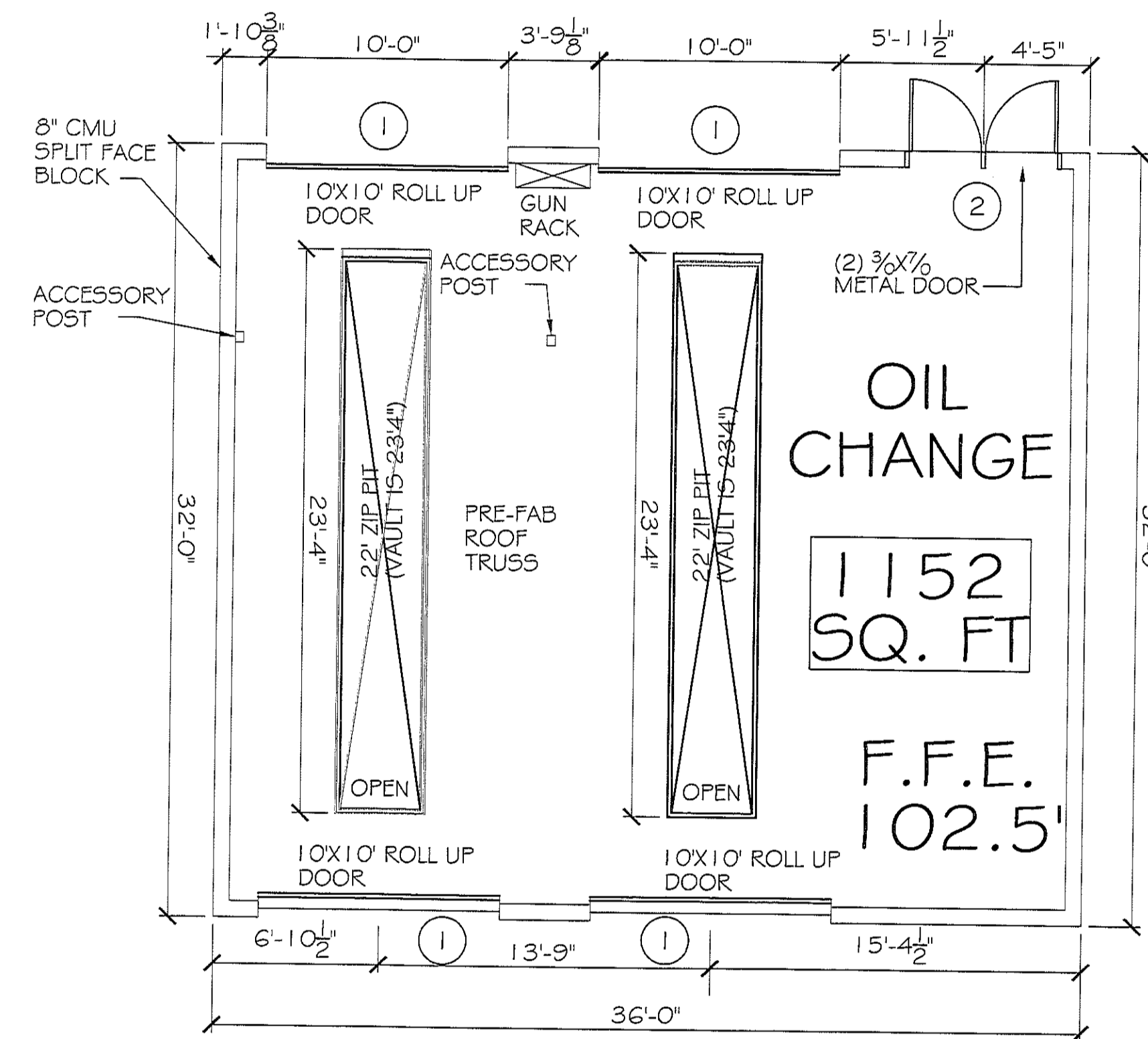
REAR ELEVATION
SCALE: 3/16" = 1'-0"



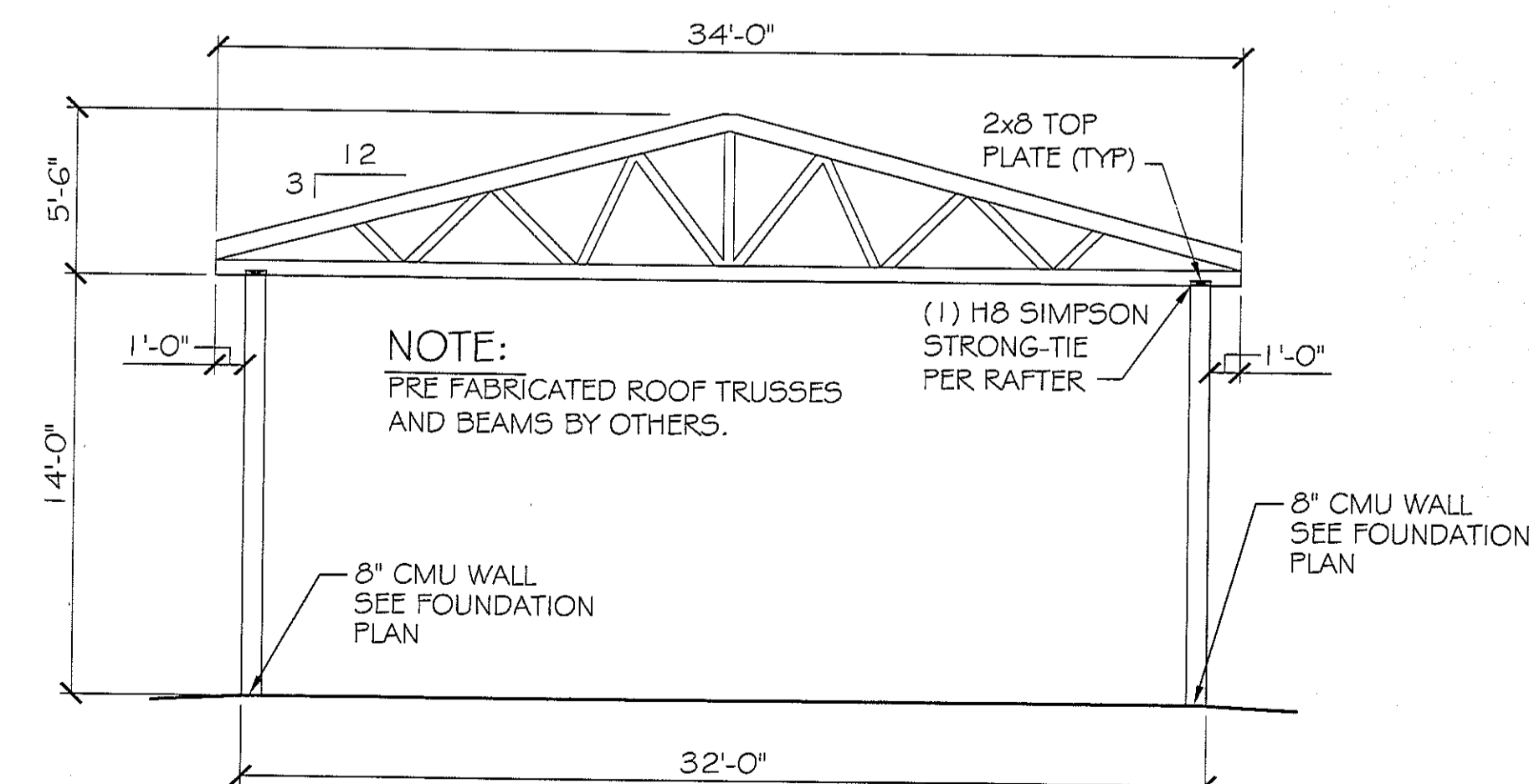
RIGHT ELEVATION
SCALE: 3/16" = 1'-0"

DOOR # HARDWARE SCHEDULE (X)						
	TYPE	FRAME	HINGE	LOCK	ACCESSORIES	REMARKS
1	ROLL UP	HOLLOW METAL				
2	STEEL TRACK	HOLLOW METAL	BUTT 1-1/2 PR	NONE	KEYED ENTRY DEADBOLT PRIVACY SLIDE BOLT THRESHOLD WEATHERSTRIP DOOR STOP DOOR CLOSER SEAL PROOFING SIDE LITE VENT/GRILLE	OVERHEAD DR. SEE ELEVATIONS

- DOOR # HARDWARE NOTES:
- DOOR HINGES TO BE STANLEY FULL MORTISE STANDARD WEIGHT, BALL BEARING HINGES, STAINLESS STEEL WITH SATIN FINISH.
 - PROVIDE ADA APPROVED LOCKSETS WITH SATIN STAINLESS STEEL FINISH, TO BE SELECTED BY OWNER.
 - COORDINATE KEYING SCHEDULE WITH OWNER.
 - DOOR STOPS TO BE EQUAL TO IVES No. 436 OR 437, AS REQUIRED IN MATCHING SATIN STAINLESS STEEL FINISH.
 - WEATHER-STRIP & THRESHOLD FINISH TO COMPLEMENT OTHER HARDWARE.



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



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

RAINFOREST CARWASH

DATE: 07-19-13
DESCRIPTION: A ADDED RESTROOMS

REVISIONS

OIL CHANGE ELEVATIONS & PLAN

SHEET No: 10 OF 22

A-3

DAMMON ENGINEERING

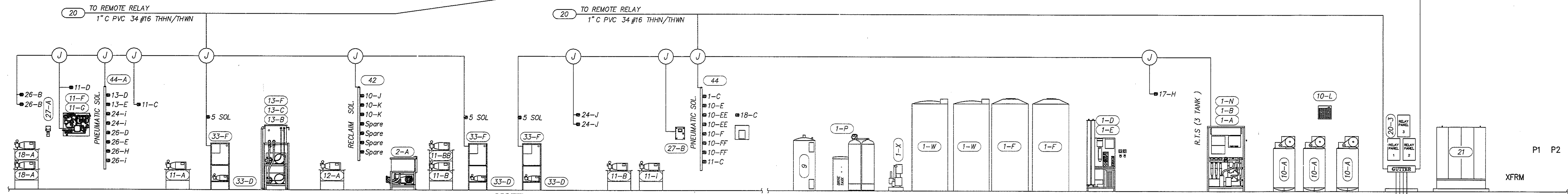
CHIEF ENGINEER: EMMETT DAMMON, P.E.
554 OLD SPANISH TRAIL
SUDDL, LA 70456

dammonengineering.com
dammoneng@bellsouth.net
PHONE: 985-649-5832
FAX: 985-641-5990

5026 HARDY ST.
HATTIESBURG, MISSISSIPPI

JOB No: 2176 DATE: 06-28-2013
DRAWN BY: JCT/JTL CHECKED BY: CD



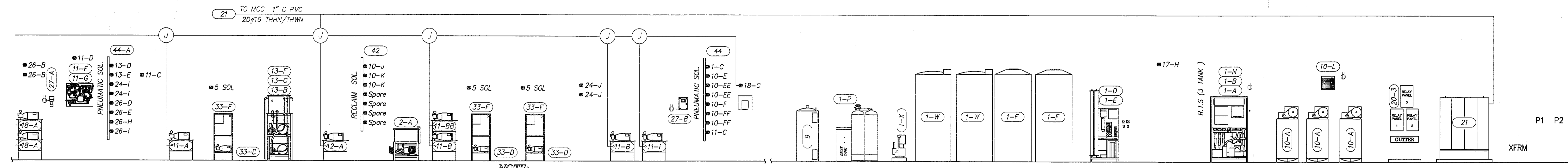


TUNNEL WALL EQUIPMENT ROOM

NOTE:
1-SEE LEGEND SHEET
2-CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.

DRY WALL EQUIPMENT ROOM

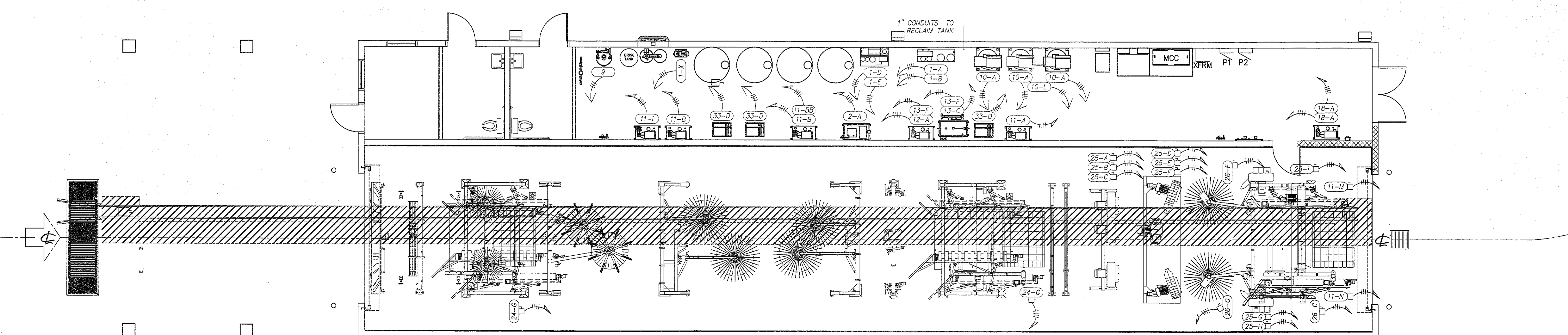
CENTRAL ROUGH-IN LOCATION



TUNNEL WALL EQUIPMENT ROOM

NOTE:
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2-CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.

DRY WALL EQUIPMENT ROOM



CARWASH ELECTRICAL PLAN

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

RAINFOREST CARWASH

REVISIONS	DATE
# DESCRIPTION	
A ADDED RESTROOMS	07-19-13



CARWASH ELECTRICAL PLAN

SHEET No: 12 OF 22

E-1

DAMMON ENGINEERING, INC.

CHIEF ENGINEER: EMMETT DAMMON, P.E.
504 OLD SPANISH TRAIL
SUITE 111
BOULDER, LA 70426
PHONE: 985-641-5956
FAX: 985-641-5956

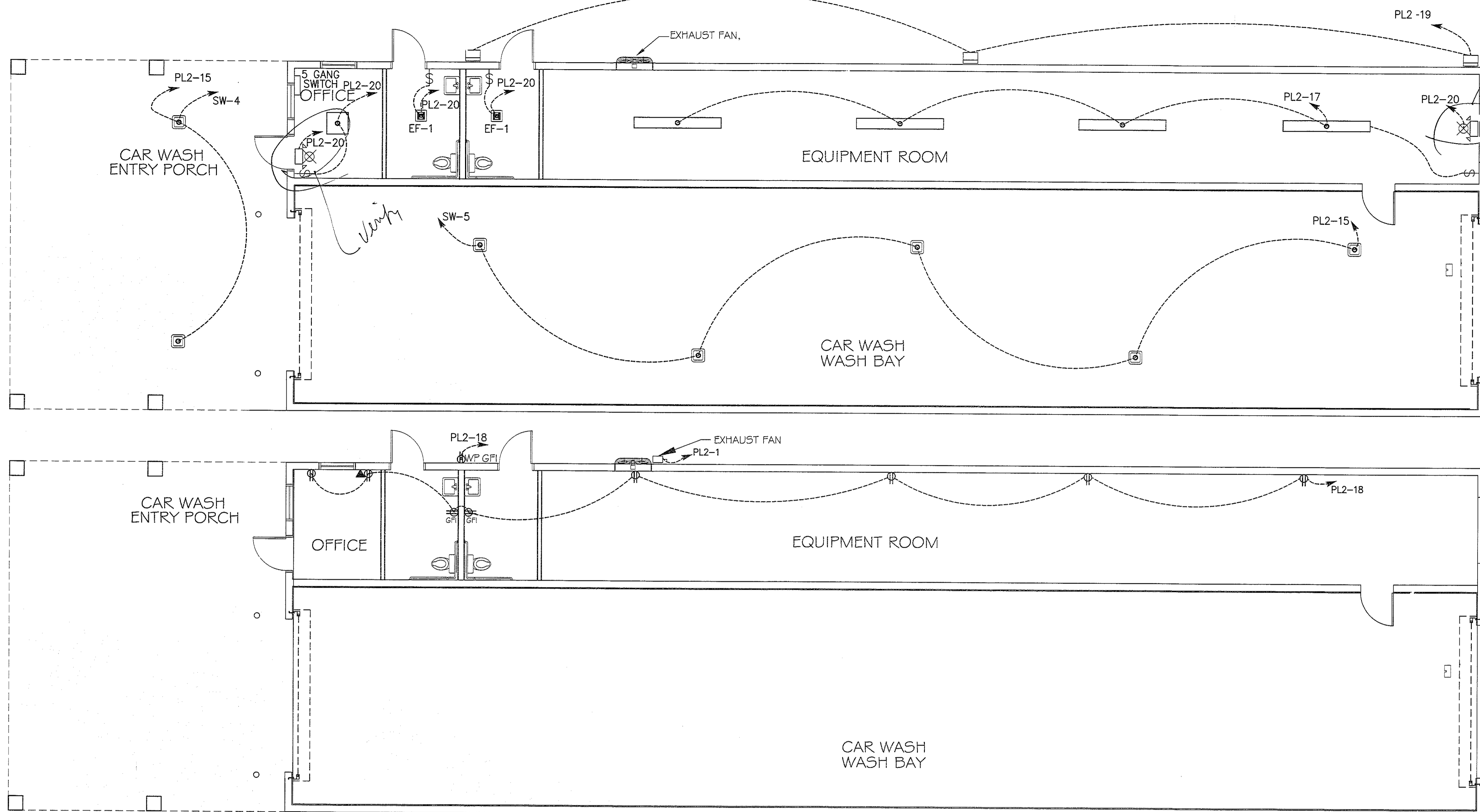
5026 HARDY ST.
HATTIESBURG, MISSISSIPPI

JOB No: 2176

DATE: 06-28-2013

DRAWN BY: JCT

CHECKED BY: CD



- LIGHTING LEGEND**
- - 2x2' FLUORESCENT LIGHT (100W) 120V 1 0
 - ⊗ - SCOTTSDALE SC320 PSMV PULSE-START METAL HALIDE LIGHT (320W) 120 V 1 0
 - ⊕ - EXHAUST FAN/LIGHT COMBO (90 w EA.)
 - - 1x8' FLUORESCENT LIGHT STRIP (128W) 120V 1 0
 - ⊗ - EXIT/EMERGENCY LIGHT COMBO W/ 90 MIN. BATTERY BACKUP (12W)
 - ⊕ - EXTERIOR WATERPROOF WALL MOUNTED H.P. METAL HALIDE LIGHT (175W)
 - ⊕ - SWITCH
 - ⊕ - SWITCH (THREE-WAY)

- POWER LEGEND**
- ⊕ - RECEPTACLE 20A 115V
 - ⊕ - GFI RECEPTACLE 20A 115V
 - ⊕ - GFI WEATHERPROOF RECEPTACLE
 - ⊕ - POWER PANEL
 - ⊕ - DISCONNECT
 - ⊕ - TELEPHONE

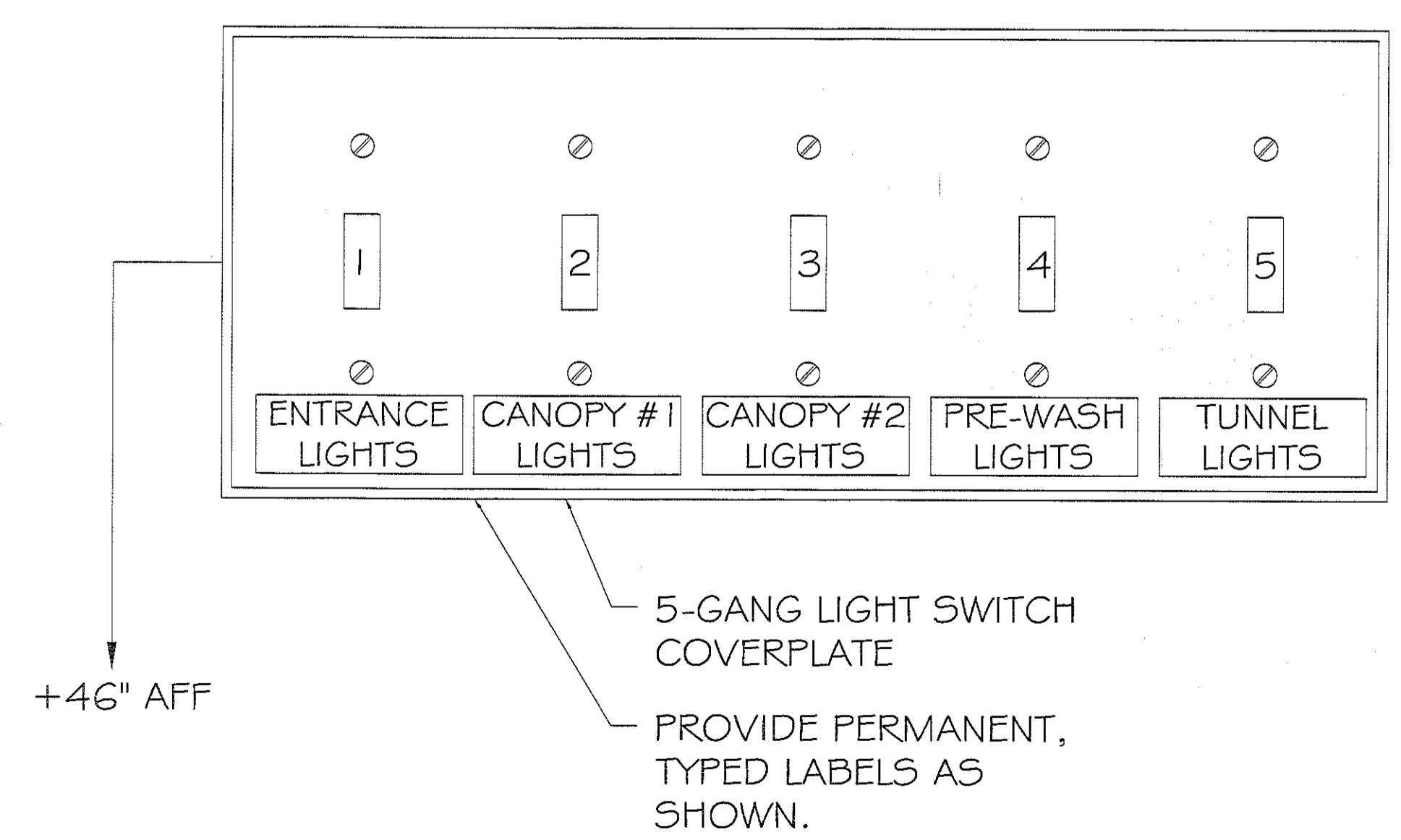
NOTE: SEE EQUIPMENT SUPPLIER'S DRAWINGS FOR EQUIPMENT'S ELECTRICAL, CONDUIT, AND WIRING REQUIREMENTS PRIOR TO COMMENCING ANY WORK.

Emergency lights @ exterior landings IBC 1006.3 #5

CARWASH POWER & LIGHTING PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT. AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
9. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
10. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
11. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE CONDUIT & WIRE OR TYPE MC CABLE COPPER, FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES. WHERE LAY IN FIXTURES ARE IN USE, USE 1 1/2 IS ALLOWED FOR 6" WIPs.
12. ALL ELECTRICAL SWITCHES AND RECEPTACLES SHALL BE RATED AT NOT LESS THAN 20 AMPS.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPA 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
16. FUSES SHALL BE ITC CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ADJUTING PROPERTY LINE.
18. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
19. ALL ABOVE GROUND PVC TO BE SCHEDULE 80.
20. SCOTTSDALE LIGHT FIXTURES ARE MULTI-TAPPED AND MUST BE SET AT 120 VOLT SINGLE PHASE.



1 Switch Detail
Scale: Not To Scale

DAMMON ENGINEERING, INC.

CHIEF ENGINEER: EMMETT DAMMON, P.E.
554 OLD SPANISH TRAIL
SUITE 100, LA 70455
PHONE: 504-649-5832
FAX: 504-641-5950

RAINFOREST CARWASH

5026 HARDY ST.
HATTIESBURG, MISSISSIPPI

DATE: 06-28-2013

CHECKED BY: CD

REVISIONS

JOB No: 2176

DATE: 07-19-13

DRAWN BY: JCT

DESCRIPTION

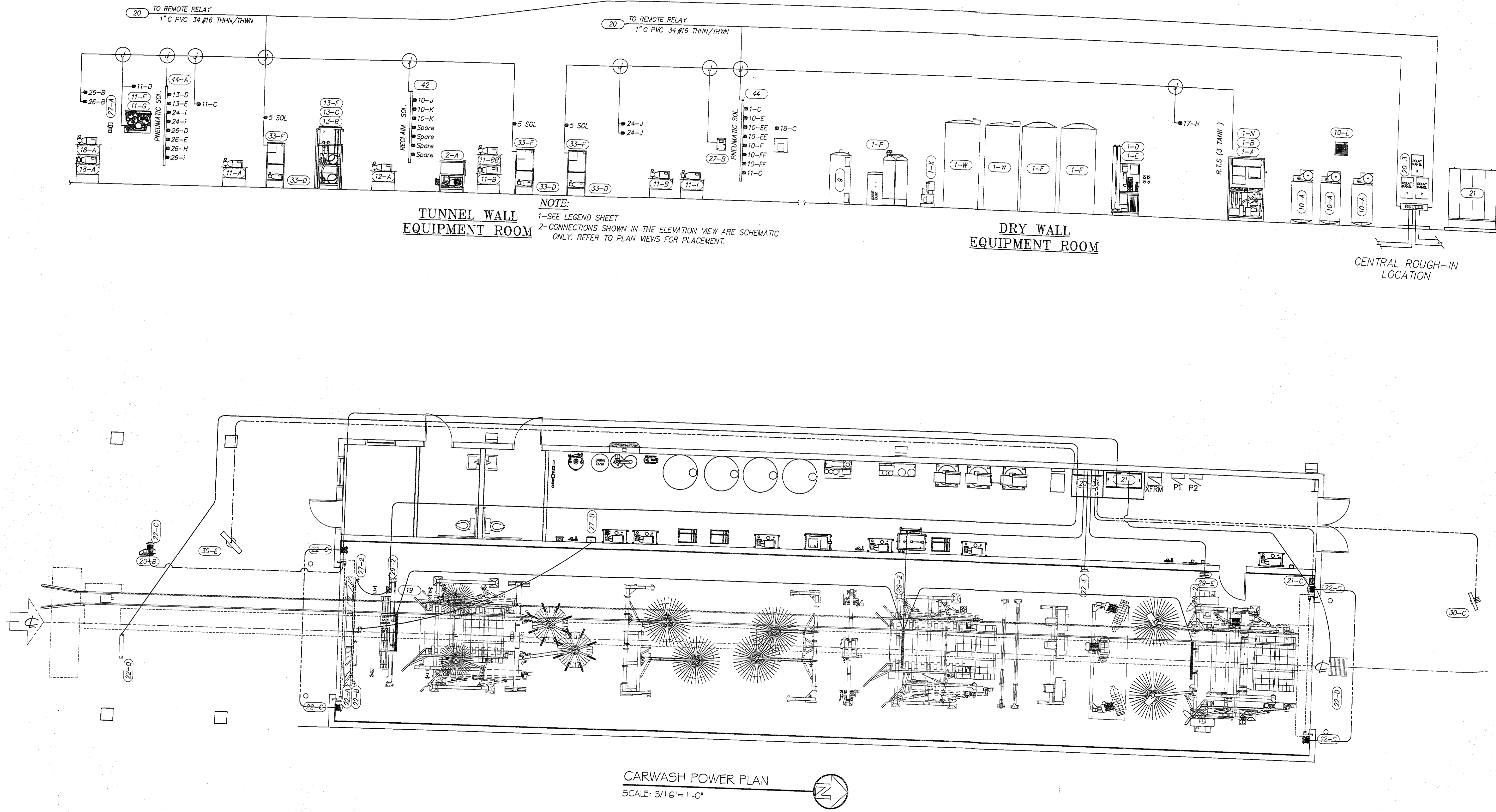
A ADDED RESTROOMS

CARWASH POWER & LIGHTING PLAN

SHEET No:

13 OF 22

E-2



TUNNEL WALL EQUIPMENT ROOM

NOTE:
 1-SEE LEGEND SHEET
 2-CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.

DRY WALL EQUIPMENT ROOM

CARWASH POWER PLAN
 SCALE: 3/16" = 1'-0"



DAMMON ENGINEERING, INC.

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 dammoneng@earthlink.net
 PHONE: 985-611-5932
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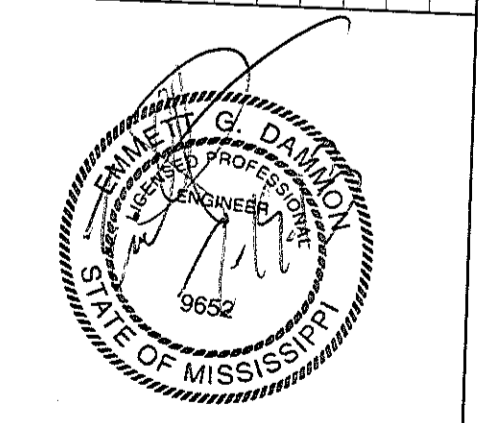
CHIEF ENGINEER: ENAMITT DAMMON, P.E.
 554 OLD SPANISH TRAIL
 SUDELL, LA 70453

RAINFOREST CARWASH

502 G HARDY ST.
 HATTIESBURG, MISSISSIPPI

JOB No: 2176
 DATE: 06-28-2013
 DRAWN BY: JCT
 CHECKED BY: CD

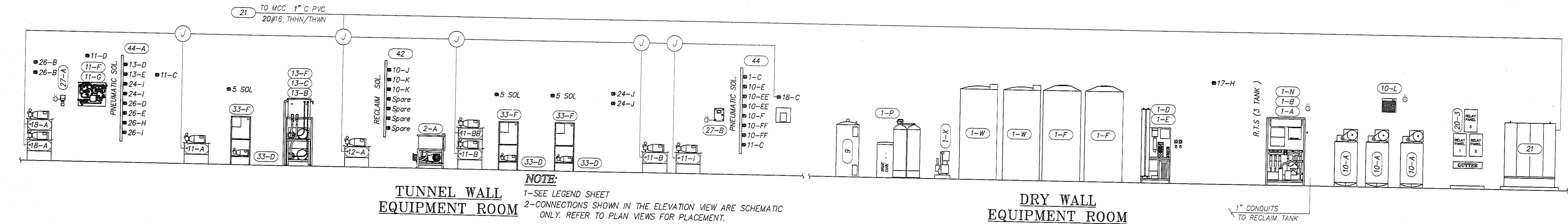
REVISIONS	DATE
A ADDED RESTROOMS	07-19-13



CARWASH POWER PLAN

SHEET No: 14 OF 22

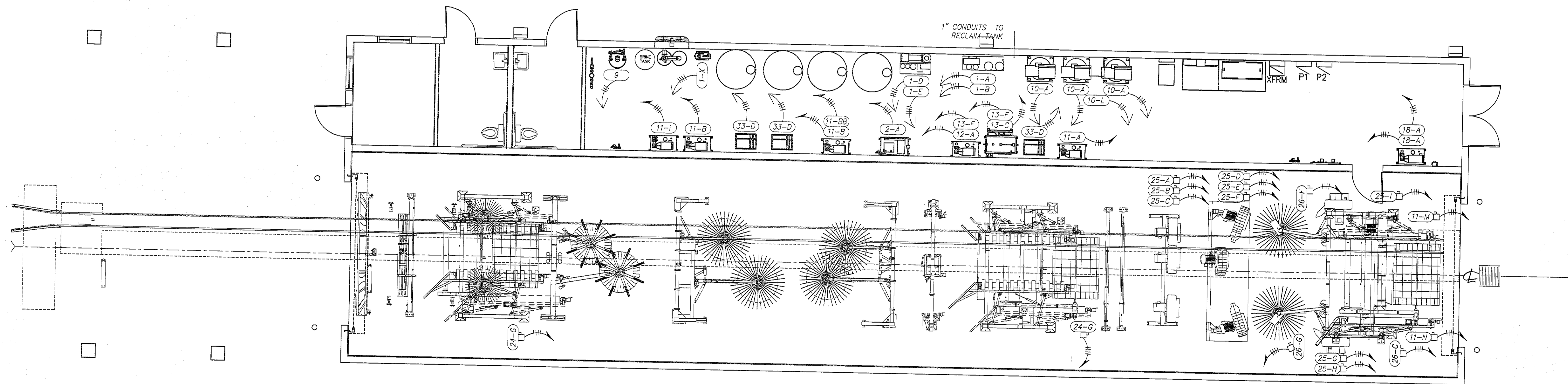
E-3



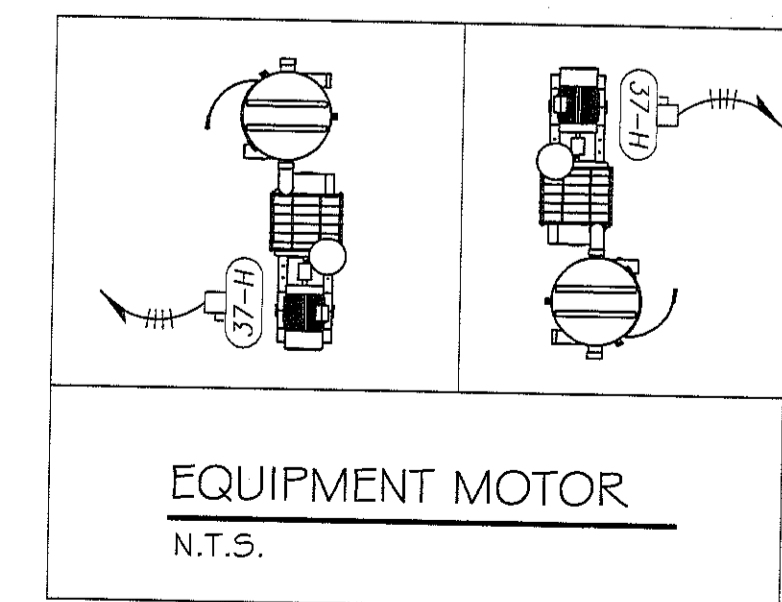
TUNNEL WALL EQUIPMENT ROOM

NOTE:
 1-SEE LEGEND SHEET
 2-CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.

DRY WALL EQUIPMENT ROOM

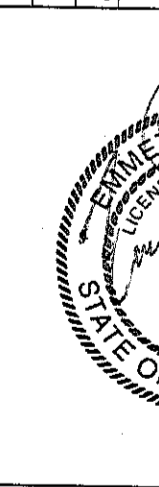


CARWASH ELECTRICAL POWER PLAN
 SCALE: 3/16" = 1'-0"



RAINFOREST CARWASH

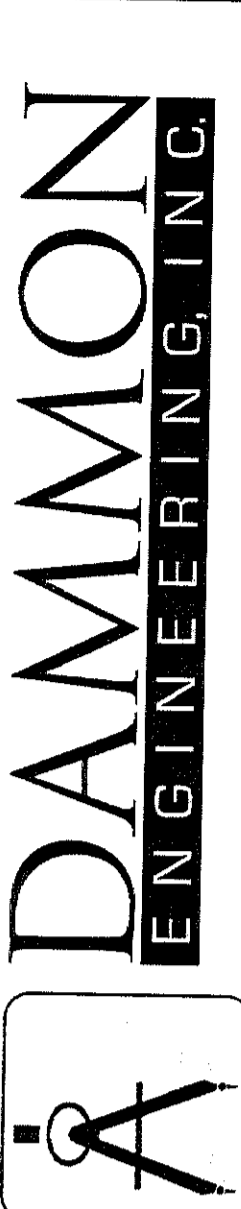
DATE: 07-19-13
 # DESCRIPTION: A ADDED RESTROOMS



CARWASH ELECTRICAL POWER PLAN

SHEET No: 15 OF 22

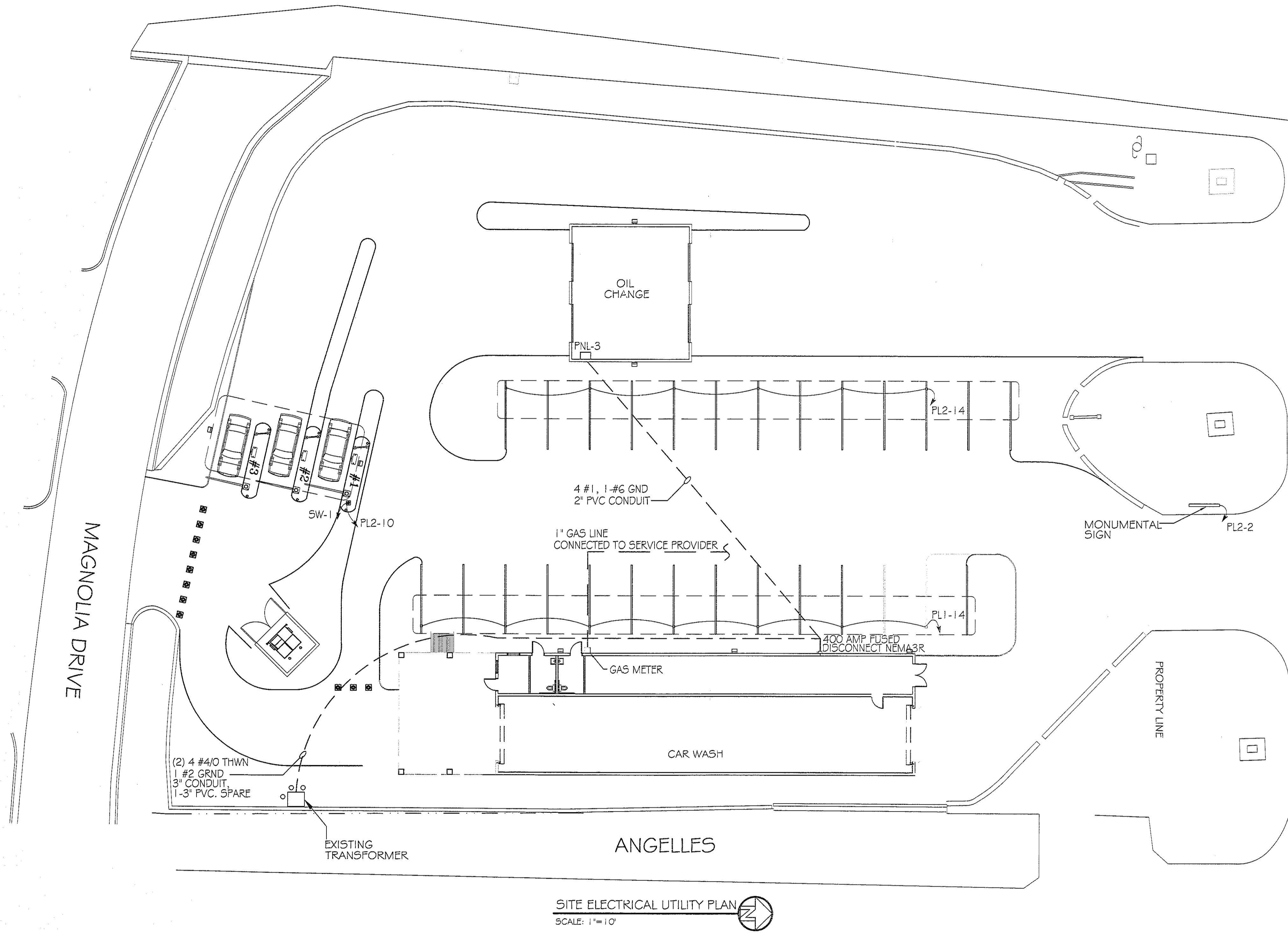
E-4



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 dammoneng@bellsouth.net
 PHONE: 905-649-5932
 FAX: 905-641-5950
 CHIEF ENGINEER: EMMETT DAMMON, P.E.
 502 G. HARDY ST.
 HATTIESBURG, MISSISSIPPI 39401
 SHELBY, LA 70450

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JOB No: 2176 DATE: 06-28-2013
 DRAWN BY: JCT CHECKED BY: CD

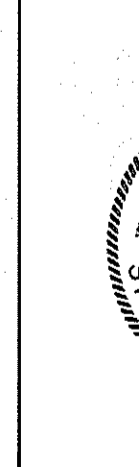


SITE ELECTRICAL UTILITY PLAN
SCALE: 1"=10'

U.S. HIGHWAY 98 (EAST BOUND LANE)

RAINFORREST CARWASH

REVISIONS	DATE
# DESCRIPTION	
A ADDED RESTROOMS	07-19-13



SITE ELECTRICAL UTILITY PLAN

SHEET No: 16 OF 22

E-5

CHIEF ENGINEER: EMMETT DAMMON, P.E.
5026 HARDY ST.
HATTIESBURG, MISSISSIPPI 39401
DATE: 06-28-2013
CHECKED BY: CD
DRAWN BY: JCT
JOB No: 2176

We shall design all specifications, designs and drawings in accordance with the latest editions of the National Electrical Code, National Fire Protection Association, and other applicable codes and standards. We shall not be responsible for any errors or omissions in the drawings or specifications, or for any consequences arising therefrom, whether or not such errors or omissions are caused in whole or in part by our negligence. We shall not be responsible for any damage or injury to any person or property, whether or not such damage or injury is caused in whole or in part by our negligence. We shall not be responsible for any delay or interruption of work, whether or not such delay or interruption is caused in whole or in part by our negligence. We shall not be responsible for any cost or expense incurred by any person or property, whether or not such cost or expense is caused in whole or in part by our negligence. We shall not be responsible for any loss of profit or income, whether or not such loss of profit or income is caused in whole or in part by our negligence. We shall not be responsible for any other damages, whether or not such damages are caused in whole or in part by our negligence.

dammonengineering.com
dammon@dammoneng.com
337-281-1111
FAX: 905-641-5950

MOTOR CONTROL CENTER

480V, 3~ 4W

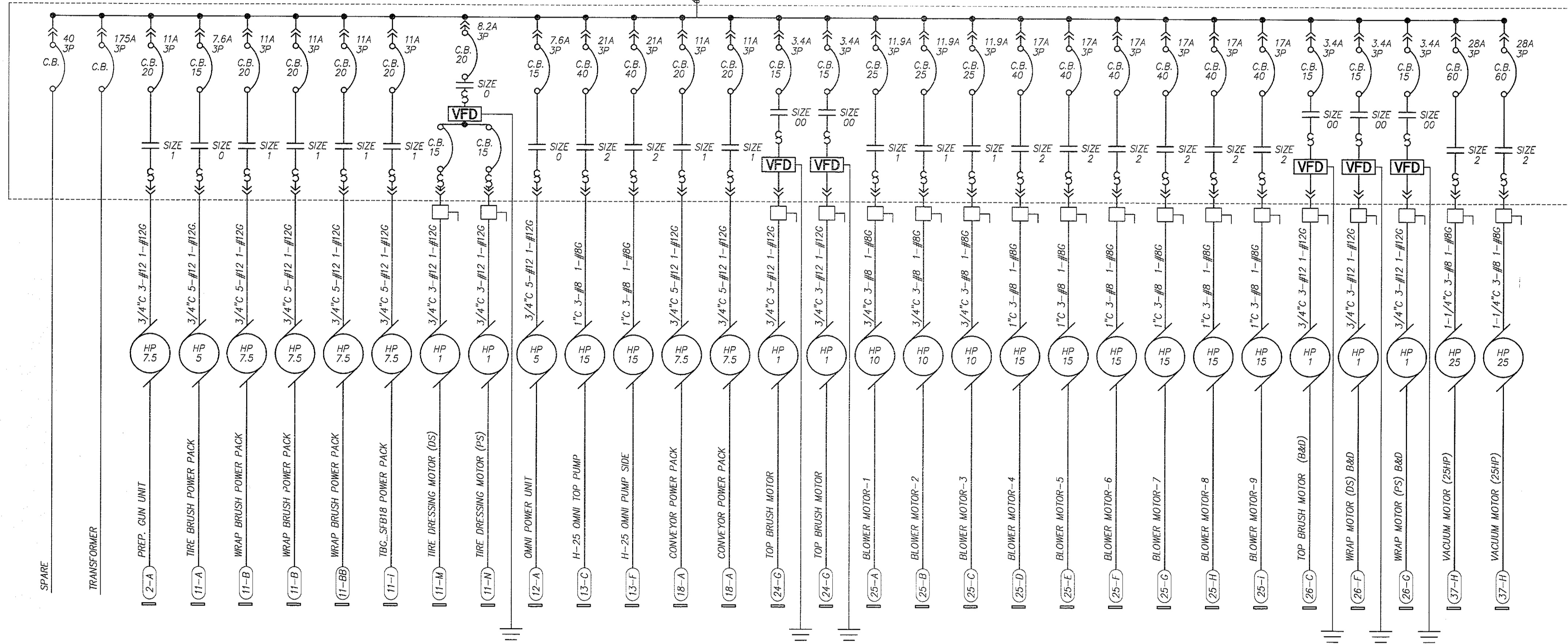
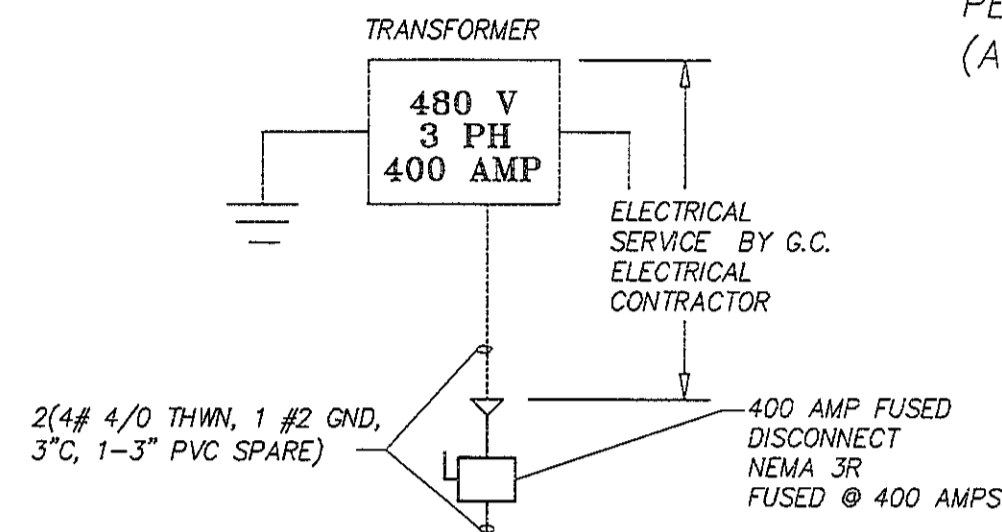
TOTAL CONNECTED LOAD: 528.1A
 BREAKER SIZE TBD MLO (VERIFY T.C.L.)
 PANEL RATED AIC TBD
 RMS SYMMETRICAL

NOTES: 05.10.06

1. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD FOR MCC.
2. LOCATE MCC SUCH THAT PROPER FRONT WORKING SPACE IS MAINTAINED IN ACCORDANCE TO NEC 110-16(g).
3. ALL WIRE TO BE TYPE THHN/THWN.

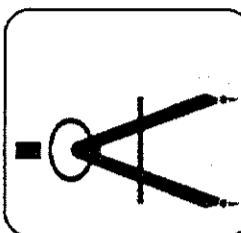
- HANDLE MECHANISMS SHALL HAVE "LOCK-OFF" PROVISIONS
- ALL STARTERS ARE FVNR
- MCC SHALL BE WIRED NEMA CLASS I, TYPE A
- MCC SHALL HAVE MOTOR CIRCUIT PROTECTORS ON STARTER UNITS
- IF VFD'S ARE USED, ALL CONDUITS TO MOTORS CONTROLLED BY VFD MUST BE STEEL (NO PVC ALLOWED), AND ALL VFD MUST HAVE INDIVIDUAL DRIVEN GROUND RODS. VFD'S CONTROL REQUIRES (2) #16 TO DRY-CONTACT POWER SUPPLY INDIVIDUALLY PER VFD'S. ALSO THE CB IS INSTANTANEOUS TRIP BREAKER (ARTICLE 430.52-A)

- (□) -DISCONNECTS TO BE MOUNTED IN TUNNEL OR OTHER AREAS NOT WITHIN 50 L.F. OR L.O.S. OF MCC IN CONFORMANCE WITH N.E.C. AND/OR LOCAL CODES..ALSO TO BE TYPE 4X NON-METALLIC ENCLOSURES, NON-FUSED SIZED FOR LOAD. DISCONNECTING MEANS SHALL NOT BE REQUIRED WHERE SUCH A LOCATION OF THE DISCONNECTING MEANS IS IMPRACTICABLE OR INTRODUCES ADDITIONAL OR INCREASED HAZARDS TO PERSON OR PROPERTY. N.E.C. (ARTICLE 430.102-B-a)
- ALL CONDUIT, WIRES, DISCONNECTS, AND TERMINATIONS BY G.C. ELECTRICIAN.
- MOTOR WIRE SIZE INDICATED ON THIS SHEET ASSUMES LENGTHS OF RUN TO BE 100 LF OR LESS. IF RUNS EXCEED 100 LF, PROJECT M.E.P. ENGINEER OF RECORD IS REQUIRED TO RUN NECESSARY CALCULATIONS TO DETERMINE VOLTAGE DROP AND CHANGE WIRE SPECIFICATIONS, AS NECESSARY.



MCC ONE-LINE DIAGRAM

DAMMON
ENGINEERING, INC.



CHIEF ENGINEER: EMMETT DAMMON, P.E.
 554 OLD SPANISH TRAIL
 SUDELL, LA 70456

We warrant our drawings and specifications, designs and calculations to conform to the applicable codes and standards and to be free from errors and omissions. We warrant that the drawings and specifications are prepared by a duly licensed professional engineer or architect. We warrant that the drawings and specifications are prepared by a duly licensed professional engineer or architect. We warrant that the drawings and specifications are prepared by a duly licensed professional engineer or architect.

RAINFOREST CARWASH

#	DESCRIPTION	DATE
A	ADDED RESTROOMS	07-19-13

REVISIONS

DATE: 06-28-2013

CHECKED BY: CD

JOB No: 2176

DATE: 06-28-2013

CHECKED BY: CD

DRAWN BY: JCT

5026 HARDY ST.
 HATTIESBURG, MISSISSIPPI

CARWASH ONE-LINE DIAGRAM

SHEET No: 17 OF 22

E-6

PANEL SCHEDULE									
VOLTS: 120/208 PHASE: 3			WIRE: 4		MARK P-1				
			MAINS: 225						
OKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA	OC	DEM %	DEM WATTS	COND	WIRE
1	20	1	E-ROOM LIGHTING			100			
3			SPARE			100			
5	20	1	H2O HEATER (9)			100			
7			SPARE			100			
9	20	1	PAY STATION (20-C)			100			
11	20	1	PAY STATION (20-C)			100			
13	20	1	PAY STATION (20-C)			100			
15	20	1	GATE (20-D)			100			
17	20	1	GATE (20-D)			100			
19	20	1	GATE (20-D)			100			
21	20	1	INPUT TERMINAL (20-B)			100			
23	20	1	RELAY BOX (20-J)			100			
25	20	1	MENU SIGN (30-I)			100			
27	20	1	MENU SIGN (30-I)			100			
29	20	1	MENU SIGN (30-I)			100			
31	20	1	SERVER COMPUTER			100			
33			SPARE			100			
35	20	1	ENTRANCE SIGN (30-E)			100			
37	20	1	WAIT & GO (30-C)			100			
39			SPARE			100			
41			SPARE			100			

TOTALS		TOTAL CONNECTED	_____	WATTS
A.I.C. RATING	(VERIFY)	TOTAL DEMAND	_____	WATTS
MOUNTING	SURFACE	TOTAL AMPS	_____	AMPS

PANEL SCHEDULE									
VOLTS: 120/208 PHASE: 3			WIRE: 4		MARK P-2				
			MAINS: 200						
OKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA	OC	DEM %	DEM WATTS	COND	WIRE
1			EXHAUST FAN EQUIP RM.			100			
3	50	3	COMPRESSOR 7.5HP (10-A)			100			
5			SPARE			100			
7			SPARE			100			
9	50	3	COMPRESSOR 7.5HP (10-A)			100			
11			SPARE			100			
13			SPARE			100			
15			CAR WASH & ENTRY LGTS	840		100			
17			EQUIP. RM FLORESCENTS	800		100			
19			EXTERIOR WALL LIGHTS	875		100			
21			OIL CHANGE FLORESCENTS	1800		100			
23			OIL CHANGE DED OUTLET	220		100			
25			SPARE	220		100			
27			SPARE	220		100			
29			SPARE	220		100			

TOTALS		TOTAL CONNECTED	_____	WATTS
A.I.C. RATING	(VERIFY)	TOTAL DEMAND	_____	WATTS
MOUNTING	SURFACE	TOTAL AMPS	_____	AMPS

PANEL SCHEDULE									
VOLTS: 120/208 PHASE: 3			WIRE: 4		MARK P-3				
			MAINS: 125						
OKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA	OC	DEM %	DEM WATTS	COND	WIRE
1			OIL CHANGE FLORESCENTS	1800		100			
3			OIL CHANGE DED OUTLET	220		100			
5			SPARE			100			
7			SPARE			100			
9			SPARE			100			
11			SPARE			100			
13			SPARE			100			
15			SPARE			100			
17			SPARE			100			
19			SPARE			100			
21			SPARE			100			
23			SPARE			100			

TOTALS		TOTAL CONNECTED	_____	WATTS
A.I.C. RATING	(VERIFY)	TOTAL DEMAND	_____	WATTS
MOUNTING	SURFACE	TOTAL AMPS	_____	AMPS

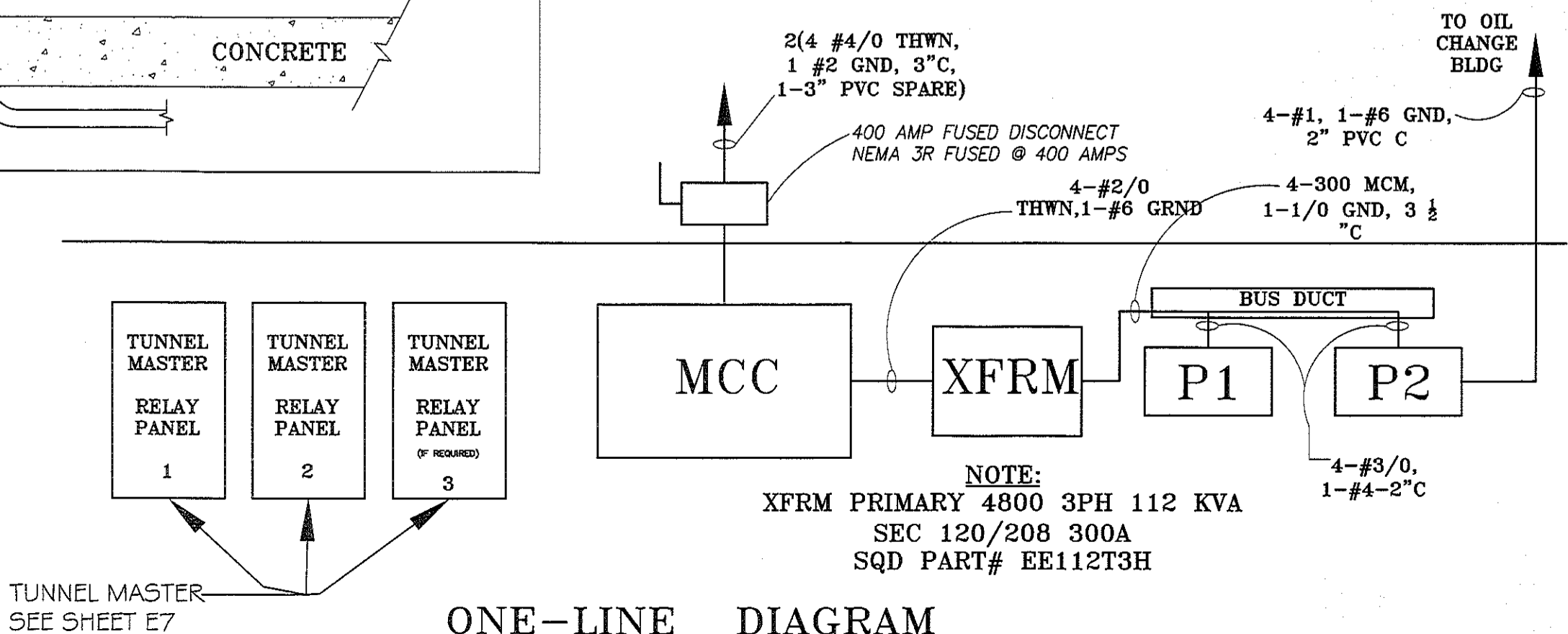
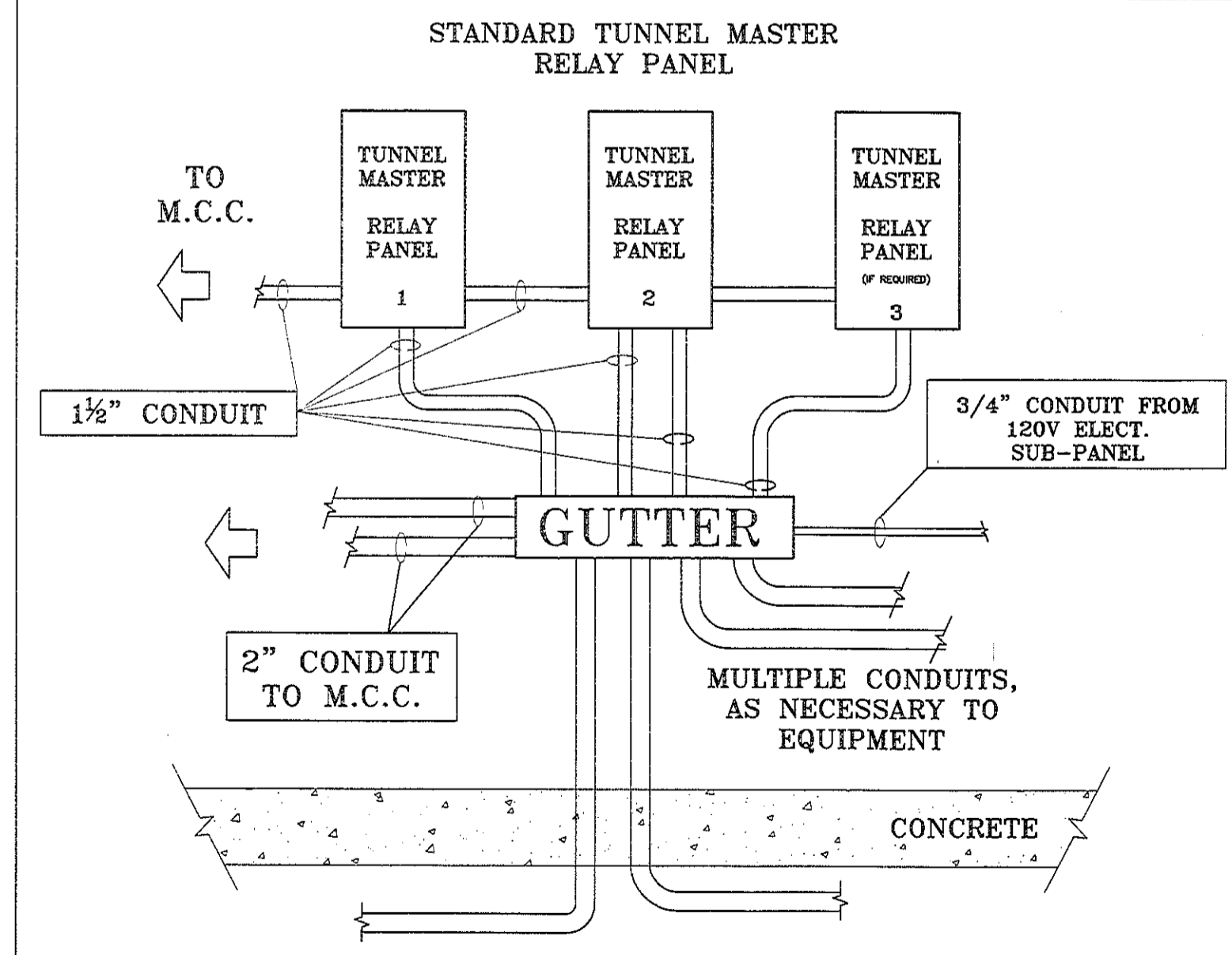
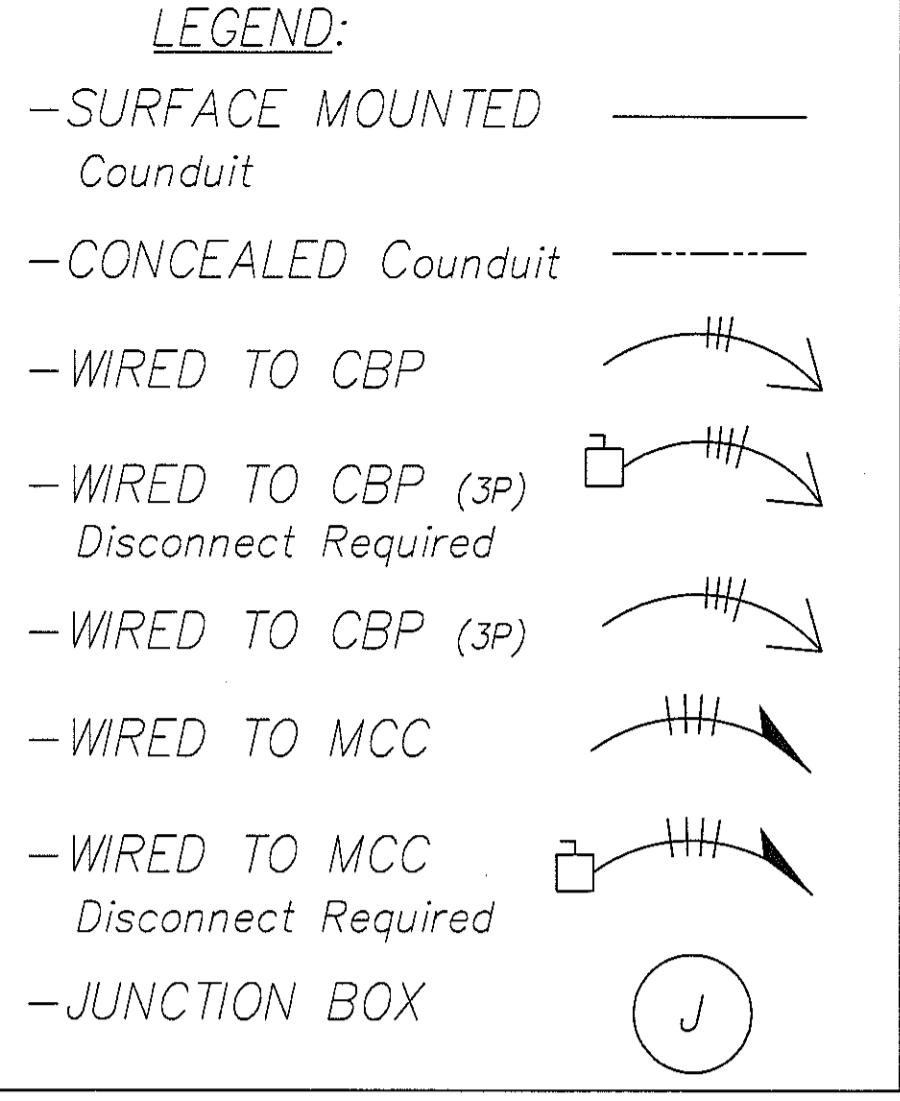
OKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA	OC	DEM %	DEM WATTS	COND	WIRE
2	20	1	TUNNEL LIGHTING			100			
4	20	1	TUNNEL LIGHTING			100			
6	20	1	VACUUM LIGHTING			100			
8	20	1	VACUUM LIGHTING			100			
10	15	1	CONTROL 120V (1-AB)			100			
12			SPARE			100			
14	35	3	RECLAIM UNIT (1-A)			100			
16			SPARE			100			
18			SPARE			100			
20	15	3	OZONE UNIT (1-B)			100			
22			SPARE			100			
24			SPARE			100			
26	15	3	RO UNIT (1-D)			100			
28			SPARE			100			
30			SPARE			100			
32	15	3	RO REPRESSURIZER (1-E)			100			
34			SPARE			100			
36			SPARE			100			
38	15	3	RO REJECT PUMP (1-X)			100			
40			SPARE			100			
42			SPARE			100			

OKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA	OC	DEM %	DEM WATTS	COND	WIRE
2			MONUMENT SIGN	220		100			
4	50	3	COMPRESSOR 7.5HP (10-A)			100			
6			SPARE			100			
8			SPARE			100			
10			PAY STATION LIGHT	200		100			
12	15	1	AIR DRYER (10-L)			100			
14			CANOPY LIGHTS	2600		100			
16	10	1	H2O SOFTENER (1-P)			100			
18			CAR WASH RECEPTACLES	1560		100			
20			OFFICE BATH & EXIT LGTS	1110		100			
22			OIL CHANGE OUTLETS	640		100			
24			OIL CHANGE DED OUTLET	220		100			
26			SPARE			100			
28			SPARE	220		100			
30			SPARE			100			

GC= GENERAL CONTRACTOR
SCW = SONNY'S (CARWASH INSTALLER)
11.16.05

ELECTRICAL SPECIFICATIONS
GENERAL CONTRACTOR

- A. GENERAL PROVISIONS**
- THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER FUNCTIONING SYSTEMS AS SHOWN ON THE DRAWINGS.
 - SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING AND TERMINATING ALL 3 PHASE, 1 PHASE, COMPUTER/CONTROL POWER PER THESE DRAWINGS, AND SONNY'S INSTALLATION MANUALS.
 - ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
 - ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF N.E.M.A., A.N.S.I., U.L., ETC.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCE.
 - THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS. FIELD VERIFICATIONS OF DIMENSIONS IS DIRECTED.
 - SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES.
 - UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
 - ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- B. RACEWAYS**
- ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS UNLESS OTHERWISE INDICATED.
 - MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE. USE FLEXIBLE CONDUIT FOR SHORT FINAL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS. ALL BLOWERS CONNECTION MUST HAVE 24" SERVICE DRIP LOOP TO ALLOW MOVEMENT OR MAINTENANCE. FLEXIBLE CORDS SHALL BE USED WHERE CALLED FOR ON THE PLANS.
 - EXPOSED CONDUITS SHALL BE RUN PARALLEL TO BUILDING LINES.
 - DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
 - PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300-21 OF THE N.E.C.
 - PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE N.E.C.
 - PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
- C. CONDUCTORS**
- ALL WIRING SHALL BE COPPER.
 - CONDUCTORS SHALL BE RATED 600V. WITH TYPE THWN/THHN INSULATION.
 - WIRES SHALL BE STRANDED CONDUCTOR
- D. CONNECTORS**
- ALL WIRE CONNECTIONS FOR 10HP MOTORS OR LARGER MUST BE SPLIT BOLT CONNECTORS OR EQUIVALENT APPROVED BY N.E.C AND/OR MANUFACTURER.
- E. LIGHTING PANELS**
- PROVIDE LIGHTING PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE. AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
 - UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F.
 - ALL PANELS SHALL HAVE TYPED CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
 - PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES.
 - ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE. NO "PIGGYBACK" OR TANDEM BREAKERS WILL BE PERMITTED.
- F. SAFETY SWITCHES**
- SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON THE PLANS. LUGS SHALL BE U.L. LISTED FOR CU-AL.
 - ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 4X.
 - DISCONNECTS TO BE MOUNTED IN TUNNEL OR OTHER AREAS NOT WITHIN 50 L.F. OR L.O.S. OF MCC IN CONFORMANCE WITH N.E.C. AND/OR LOCAL CODES. ALSO TO BE TYPE 4X NON-METALLIC ENCLOSURES, NON-FUSED SIZED FOR LOAD. DISCONNECTING MEANS SHALL NOT BE REQUIRED WHERE SUCH A LOCATION OF THE DISCONNECTING MEANS IS IMPRACTICABLE OR INTRODUCES ADDITIONAL OR INCREASED HAZARDS TO PERSON OR PROPERTY. N.E.C. (ARTICLE 430.102-B-a)



DAMMON ENGINEERING, INC.

CHIEF ENGINEER: ENAMETT DAMMON, P.E.
554 OLD SPANISH TRAIL
SLIDELL, LA 70458

RAINFOREST CARWASH

6026 HARDY ST.
HATTIESBURG, MISSISSIPPI

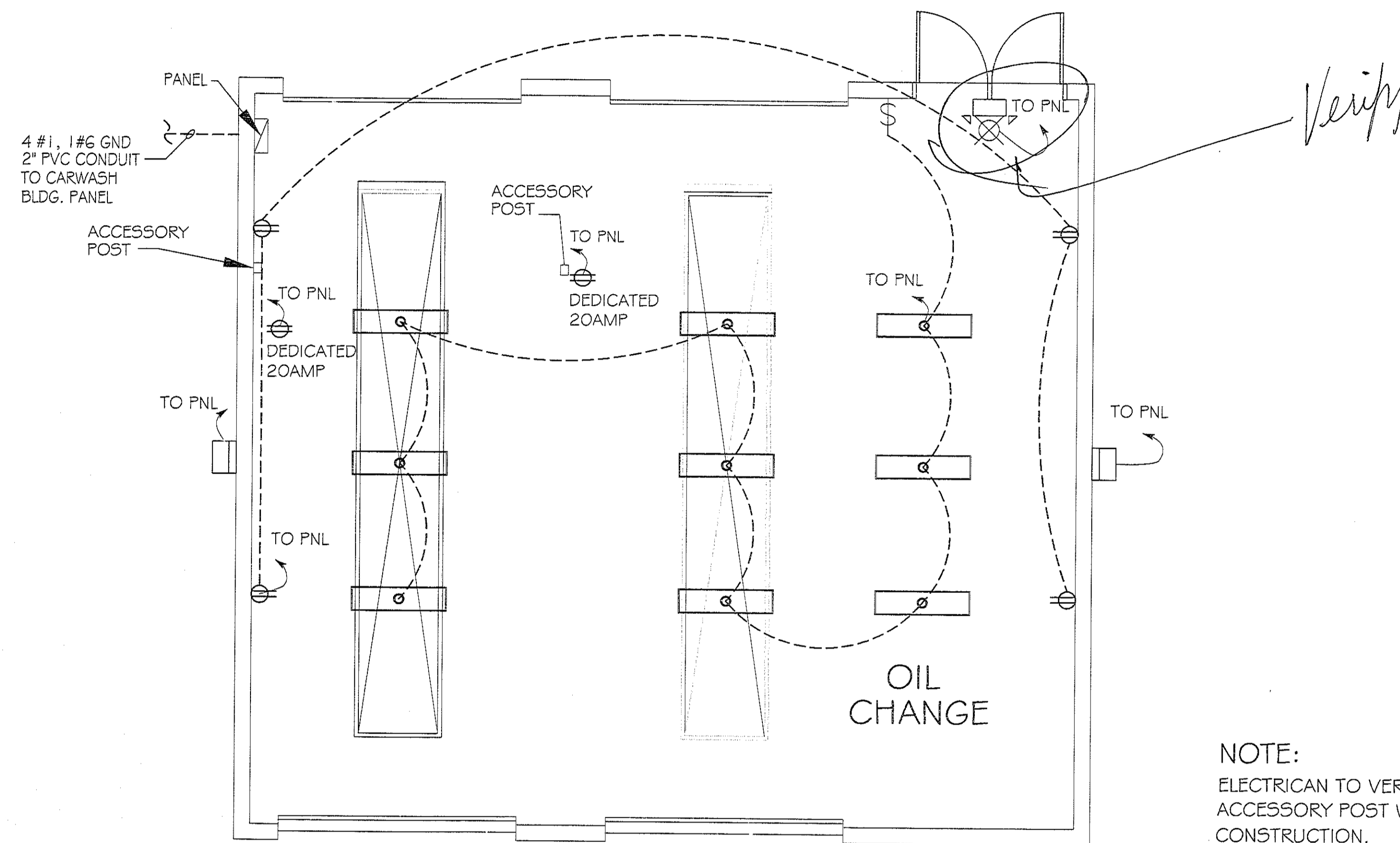
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JOB No: 2176
CHECKED BY: CD
DRAWN BY: JCT

DATE: 07-19-13
DESCRIPTION: A ADDED RESTROOMS

ELEC. PANEL SCHEDULE SPECS AND NOTES

SHEET No: 18 OF 22

E-7



OIL CHANGE POWER & LIGHTING PLAN
 SCALE: 3/16"=1'-0"

POWER LEGEND

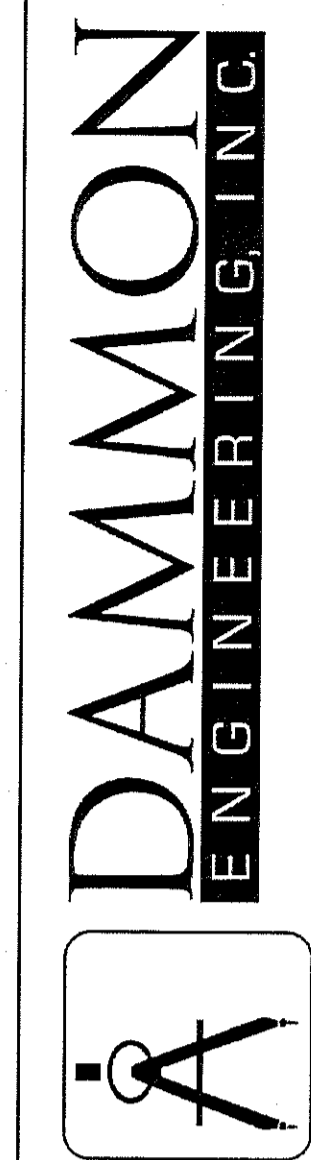
- ⊖ - RECEPTACLE 20A 115V
- ⊖ (with circle) - 20 AMP DEDICATED RECEPTACLE

LIGHTING LEGEND

- ⊖ (with circle) - 1'x4' FLUORESCENT LIGHT WRAP (1 28W) 120V
- ⊖ (with square) - EXTERIOR WATERPROOF WALL MOUNTED H.P. METAL HALIDE LIGHT (175W)
- \$ - SWITCH
- ⊖ (with square and X) - EXIT/EMERGENCY LIGHT COMBO W/ 90 MIN. BATTERY BACKUP (12W)
- ⊖ (with square) - EXTERIOR WATERPROOF WALL MOUNTED H.P. METAL HALIDE LIGHT (175W)

NOTE:
 ELECTRICIAN TO VERIFY LOCATION OF
 ACCESSORY POST WITH GC PRIOR TO
 CONSTRUCTION.

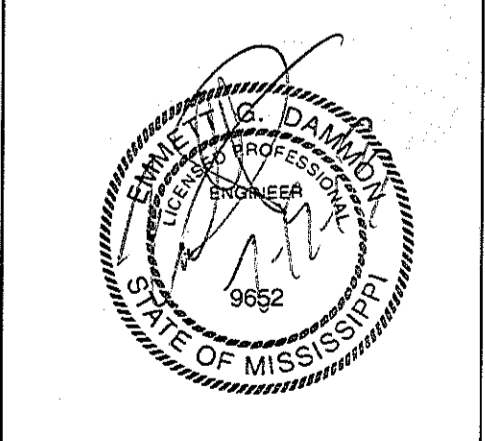
RAINFOREST CARWASH



dammoneengineering.com
 dammoneng@bellsouth.net
 502.G.HANDY ST.
 HATTIESBURG, MISSISSIPPI
 TEL: 985-641-5930
 FAX: 985-641-5930

CHIEF ENGINEER: DWAYNE DAMMON, P.E.
 502.G.HANDY ST.
 HATTIESBURG, MISSISSIPPI 39401
 TEL: 985-641-5930
 FAX: 985-641-5930

REVISIONS	DATE
# DESCRIPTION	07-19-13
A ADDED RESTROOMS	

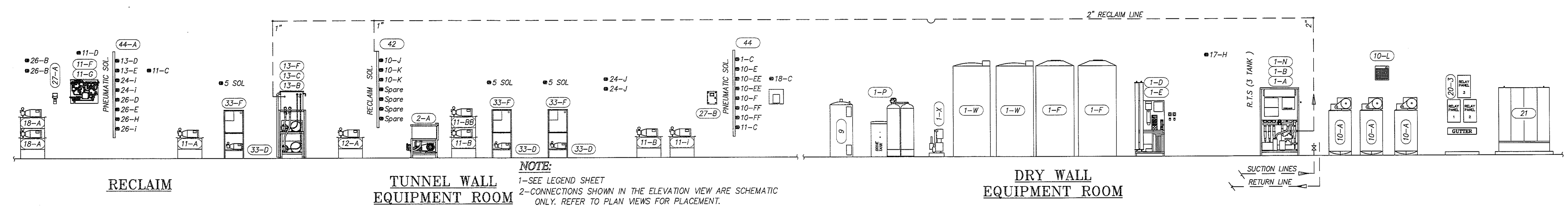
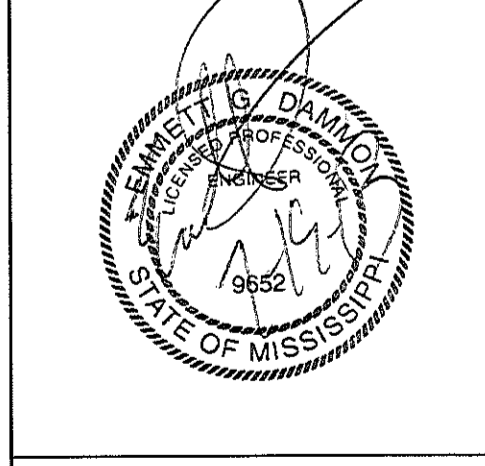


OIL CHANGE
 POWER
 & LIGHTING
 PLAN

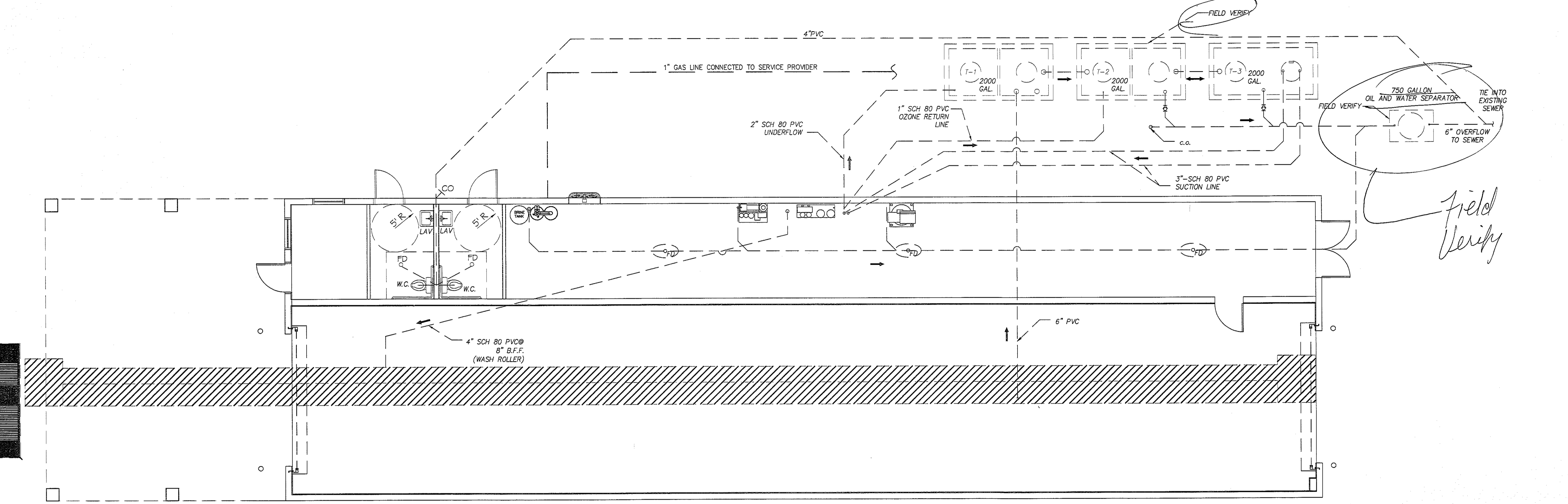
SHEET No: 19 OF 22

E-8

DATE	07-19-13
REVISIONS	
# DESCRIPTION	
A ADDED RESTROOMS	



NOTE:
 1-SEE LEGEND SHEET
 2-CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.



CARWASH PLUMBING PLAN
 SCALE: 3/16"=1'-0"

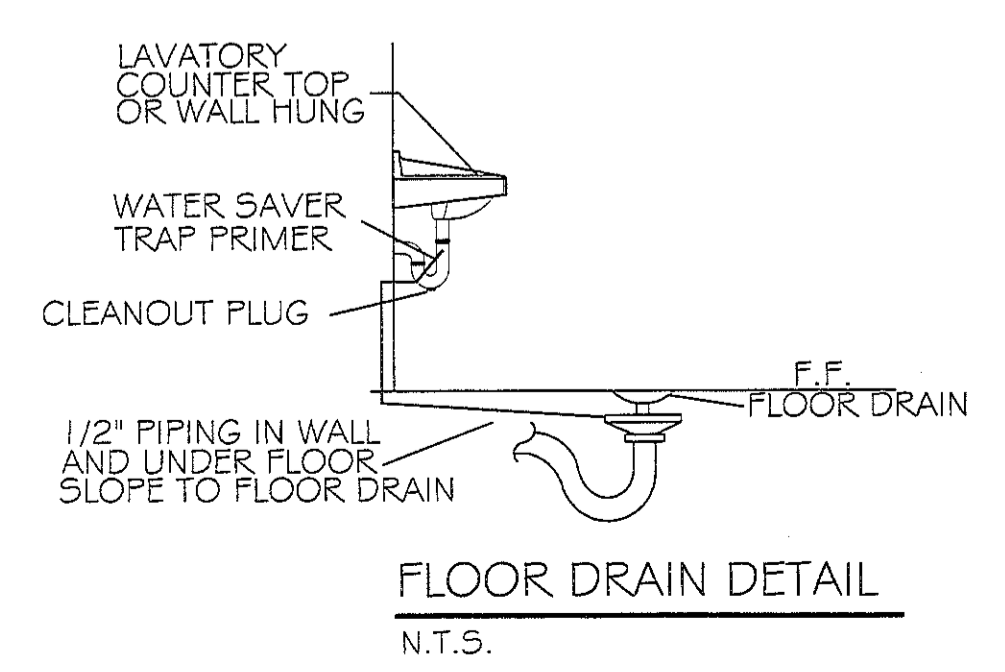
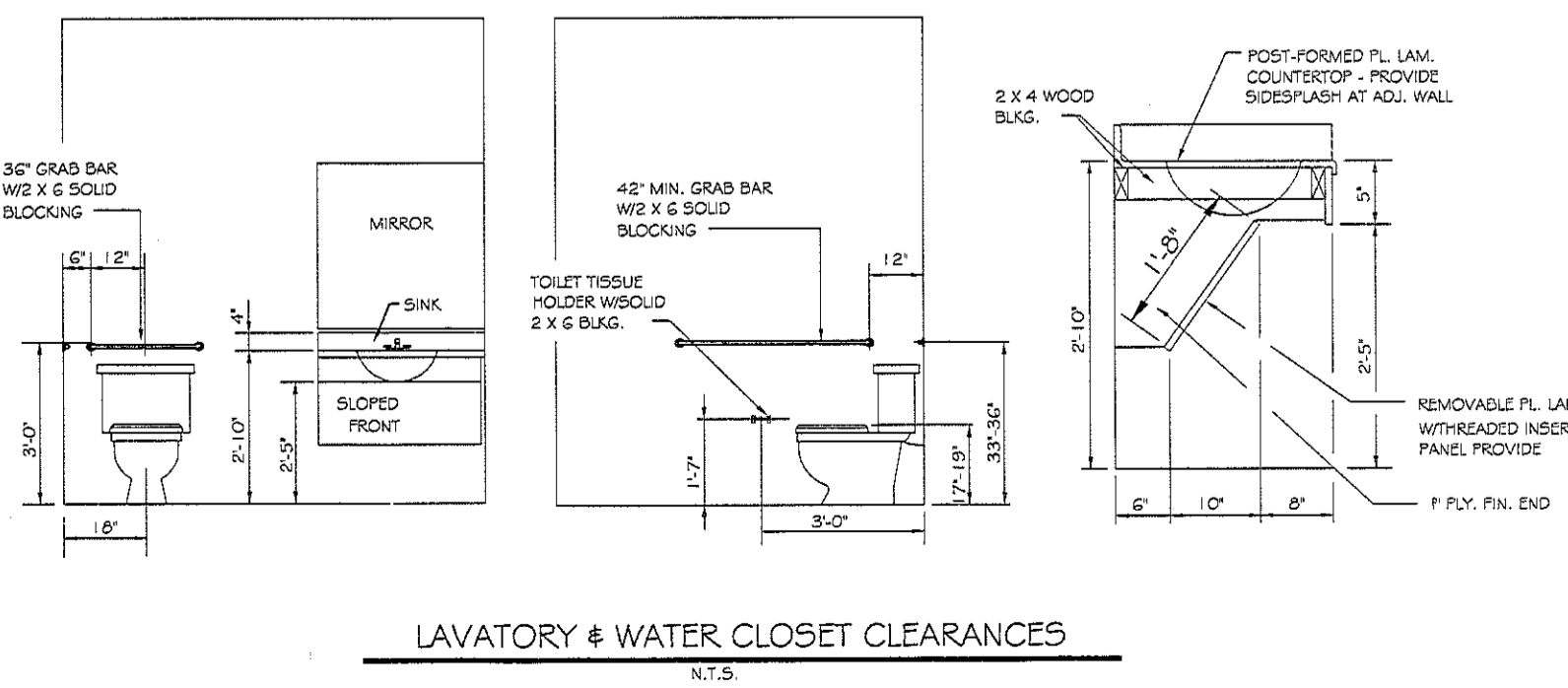
PLUMBING NOTES

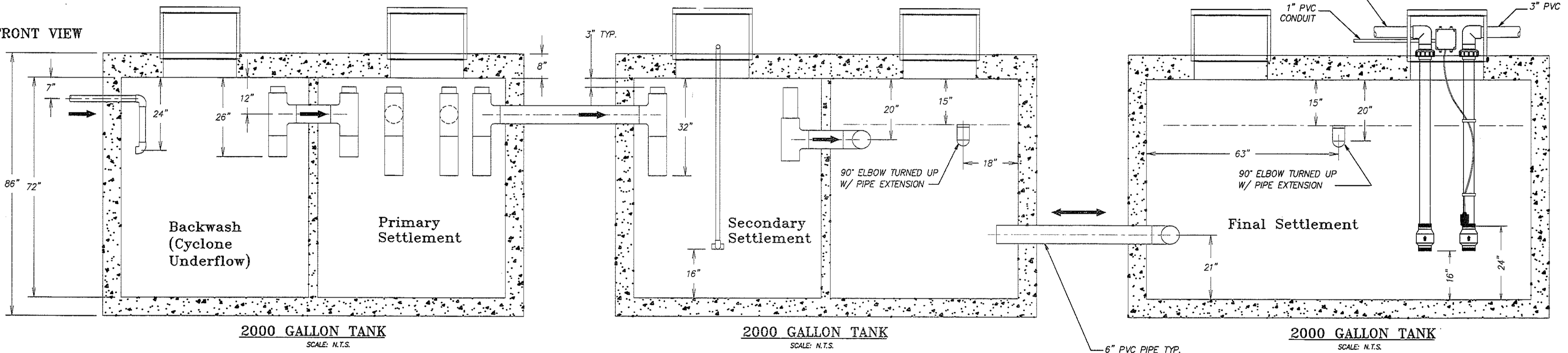
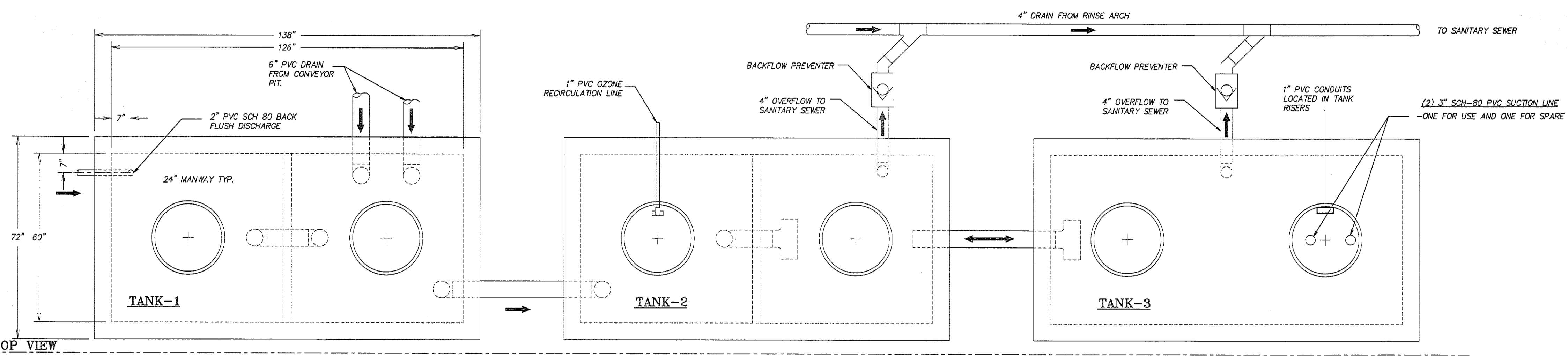
1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYST SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HE HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO COLUMN. CUT AND PATCH AS RE TO INSTALL PIPES.
2. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL, CITY, PARISH, STATE NATIONAL GOVERNING CODES.
3. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNEC
4. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEMI AND DRAINAGE PIPES.
5. SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINE 4-INCH AND LAI SHALL BE 1/8" PER FOOT.
6. TEST ALL PIPING AT REQUIRED PRESSURE.
7. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEM, MECHANICAL SYST ELECTRICAL TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
8. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WALLS, FIXTURES, ETC.
9. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
10. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPE TUBE, TYPE K SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
11. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATER TL L. HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SC TYPING USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER.
12. SOL, WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHED ABS DWV PIPES AND FITTINGS WHERE PERMITTED BY CODE.
13. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGL INSULATION AND JACKET.
14. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAUL (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE C PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASI
15. ALL PLUMBING LINES SHOWN ARE DIAGRAMATIC.

NOTE:
 FIELD VERIFY ALL PLUMBING REQUIREMENTS WITH CARWASH MFG.

MARK	DESCRIPTION	TYPE	ROUGH-IN SIZES	NOTES
			WASTE VENT CW HW	
WC	H.C. WATER CLOSET	VALVE	4" 4" 4"	2, 3, 5
LAV	H.C. LAVATORY	WALL HUNG	2" 2" 1/2" 1/2"	1, 2, 3
FD	FLOOR DRAIN	-	2" 2" -	4, 5
WH	WATER HEATER DRAIN	-	2" 3/4" -	5

- FIXTURE NOTES:**
1. INSULATE PIPING FOR HANDICAP FIXTURES.
 2. PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURES.
 3. H.C. - HANDICAP FIXTURE
 4. INSTALL CONTINUOUS DRIP VALVE ON ALL FLOOR DRAINS.
 5. FIXTURES SELECTED BY OWNER.





NOTE:

1. Pressure Test All Suction Lines Upon Installation @ 10-15 PSI max.
2. Keep pressure on Suction Lines for the entire DURATION of construction.
3. Pressure should NOT drop more than 2 PSI.
4. Watch for problems when excavating driveways.
5. Placement of suction lines is critical
6. Do NOT put screens on the suction lines

**CAR WASH RECLAIM SYSTEM
STANDARD RECLAIM 3 TANK**

(SEE RECLAIM SHEET FOR DETAIL)

NOTE:

1. ALL UNDERGROUND TANKS AND PIPING BY CONTRACTOR
2. PIPE LOCATIONS SHOULD BE USED FOR ANY TANK
3. ALL INTERNAL TANK PLUMBING TO BE 6" sch 40 PVC UNLESS NOTED OTHERWISE
4. ALL TANK BOTTOMS SHOULD BE LEVEL
5. THIS DRAWING IS TO SHOW TANK HOLDING CAPACITY AND PIPING RELATIONSHIPS ONLY. THEY ARE NOT INTENDED TO ADDRESS TANK STRUCTURE ENGINEERING.

NOTE:
FIELD VERIFY ALL PLUMBING REQUIREMENTS WITH CARWASH MFG.

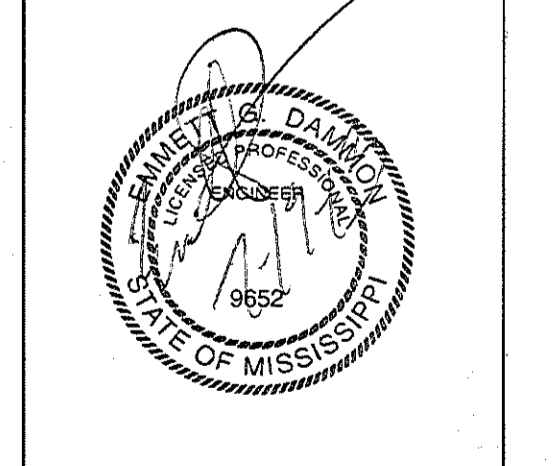
RAINFOREST CARWASH

5026 HARDY ST.
HATTIESBURG, MISSISSIPPI

JOB No: 2176 DATE: 06-28-2013 CHECKED BY: CD

DRAWN BY: JCT

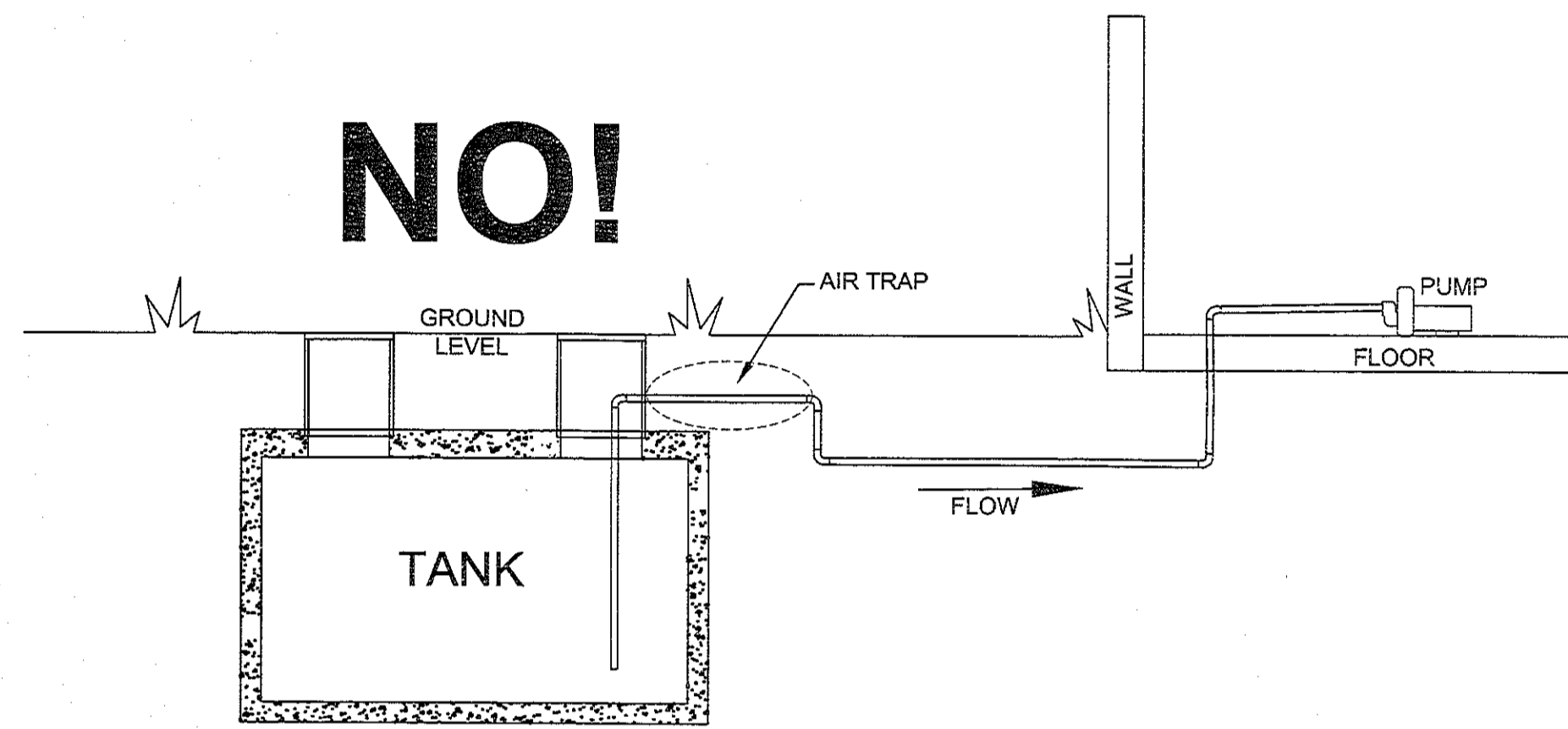
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A ADDED RESTROOMS	07-19-13



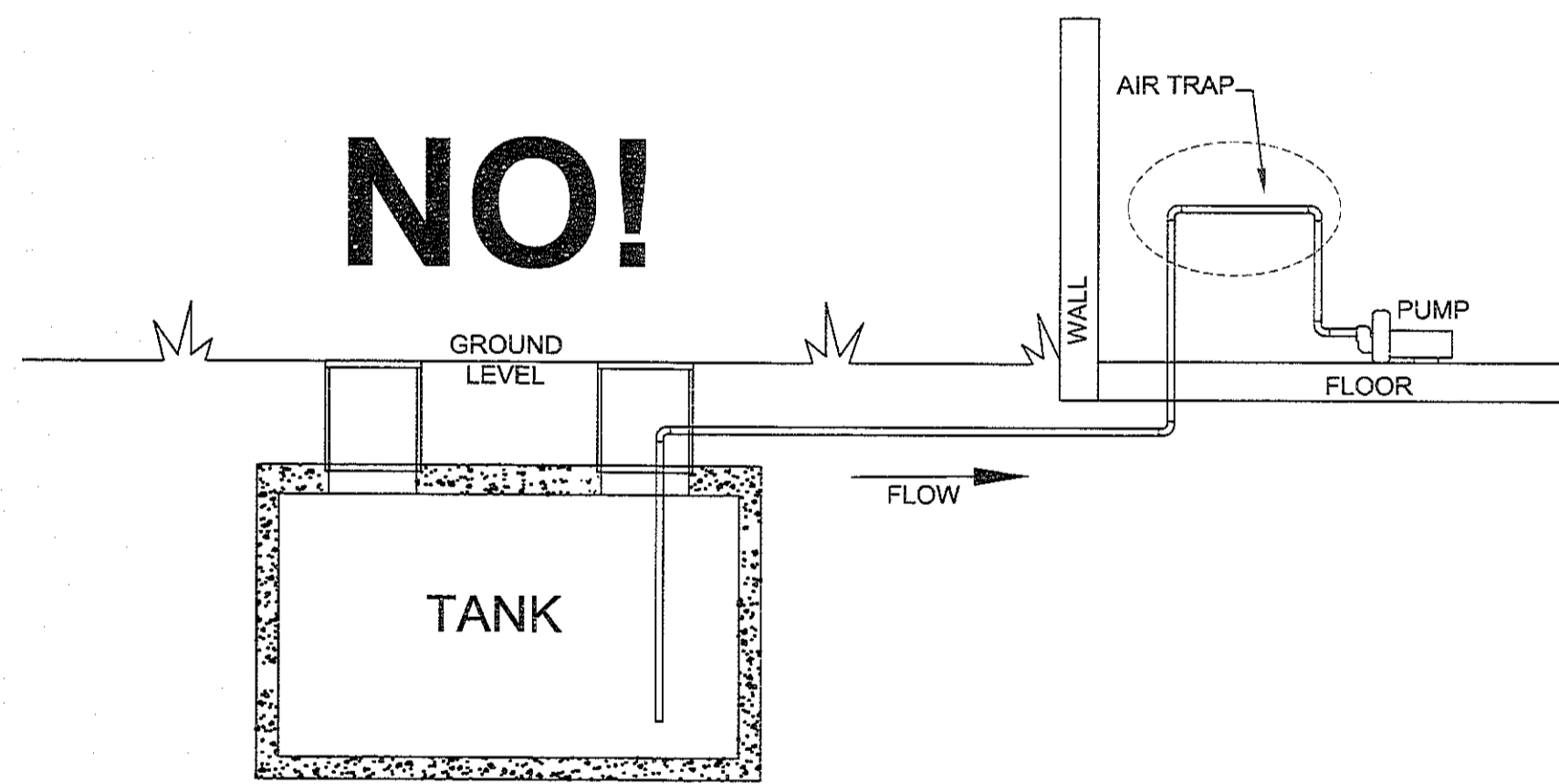
**CARWASH
RECLAIM
SYSTEM**

SHEET No: 21 OF 22

P-2

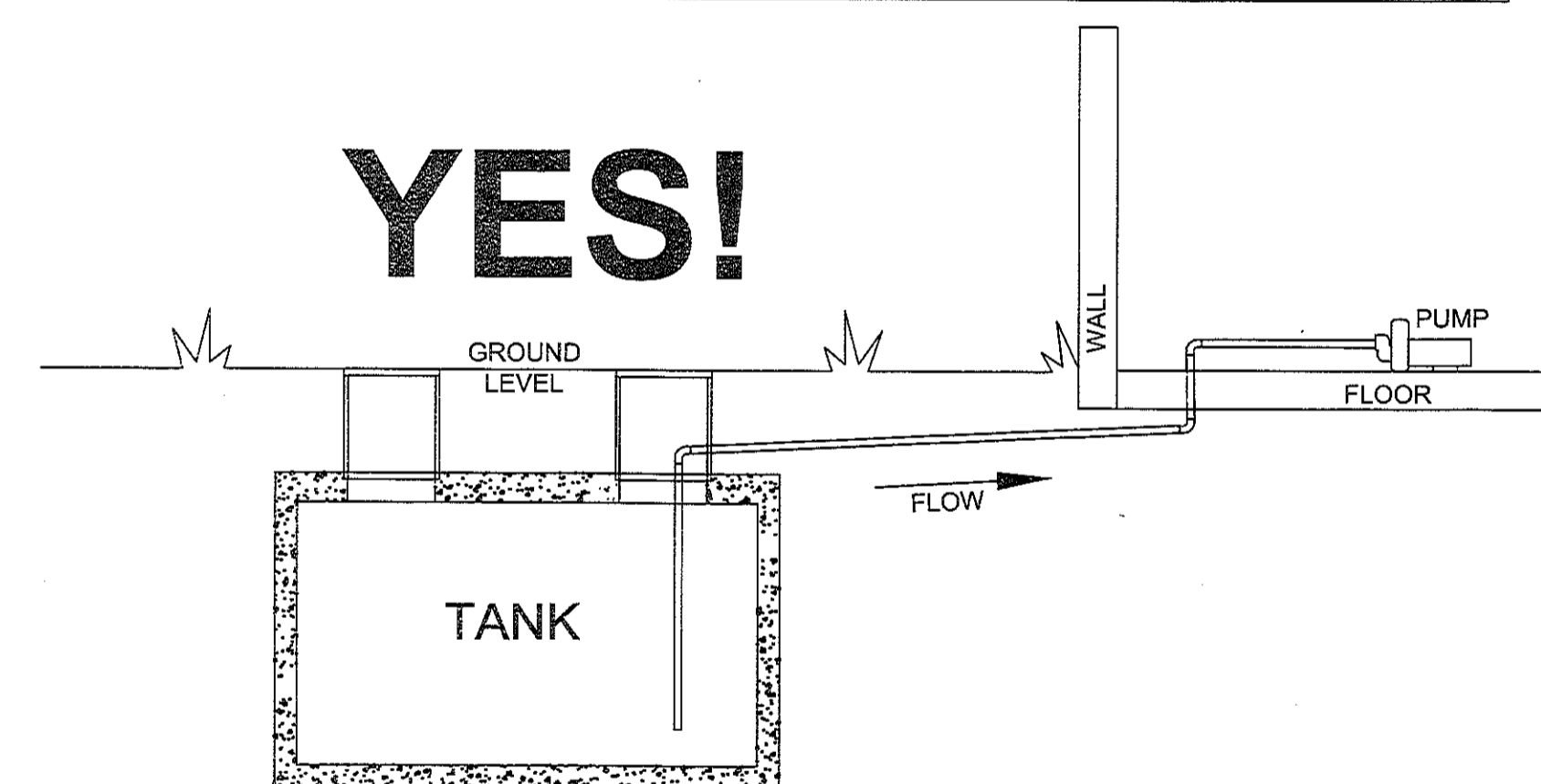
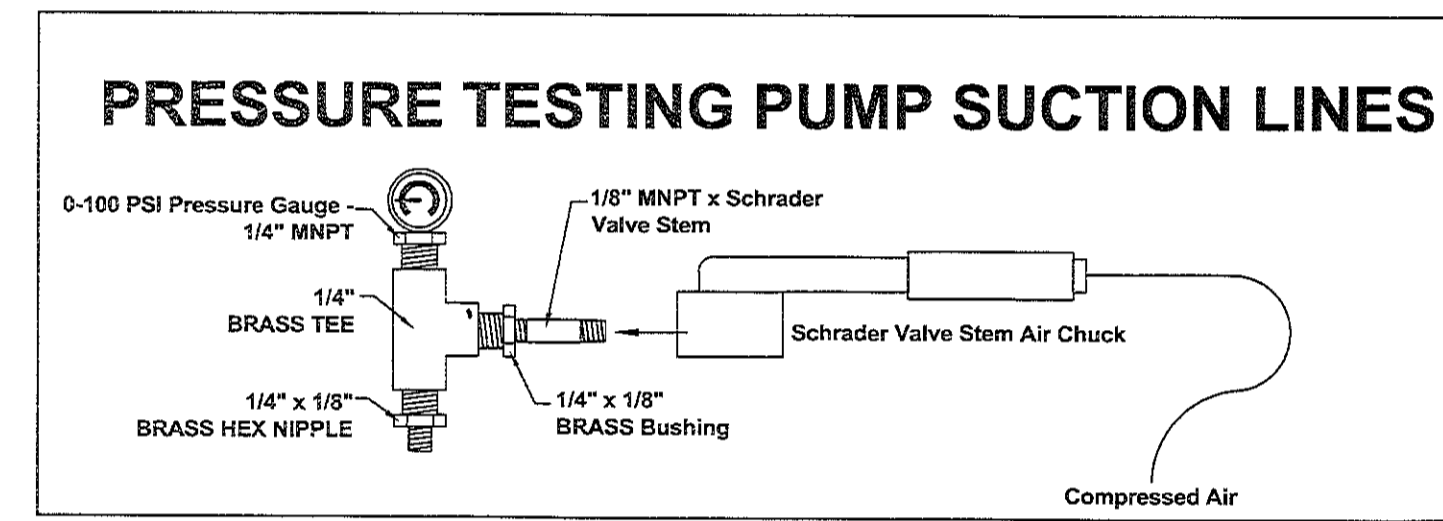
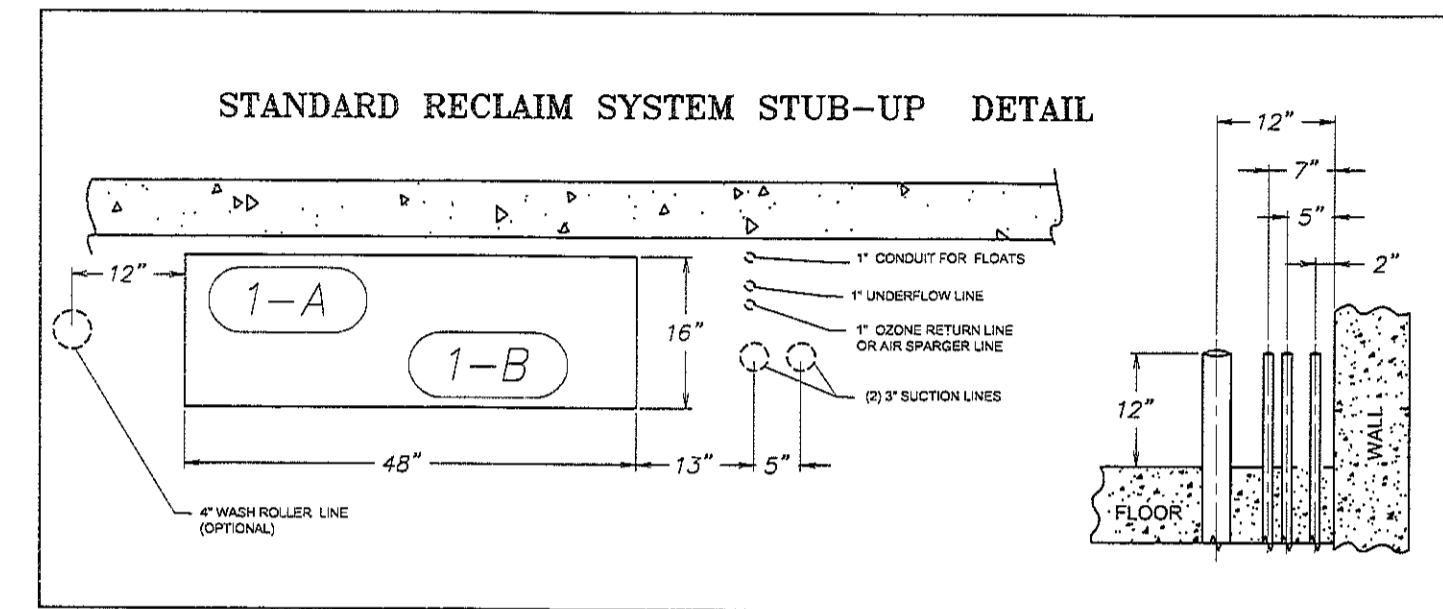


NO!
BELOW GROUND TANKS
 ALL suction lines must NEVER slope down and then back up again (Air Trap).

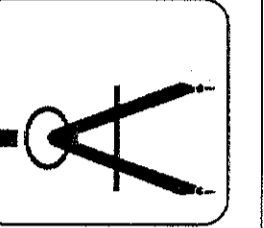


NO!
BELOW GROUND TANKS
 ALL suction lines must NEVER slope up and then back down again (Air Trap).
 ANY QUESTIONS CONTACT SONNY'S

NOTE:
 FIELD VERIFY ALL PLUMBING REQUIREMENTS WITH CARWASH MFG.



YES!
BELOW GROUND TANKS
 ALL suction lines require a continuous upward slope to the Equipment Room.



REVISIONS	DATE
# DESCRIPTION	07-19-13
A ADDED RESTROOMS	

