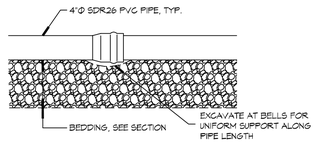
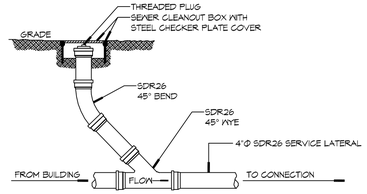
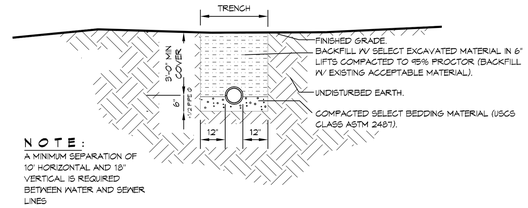


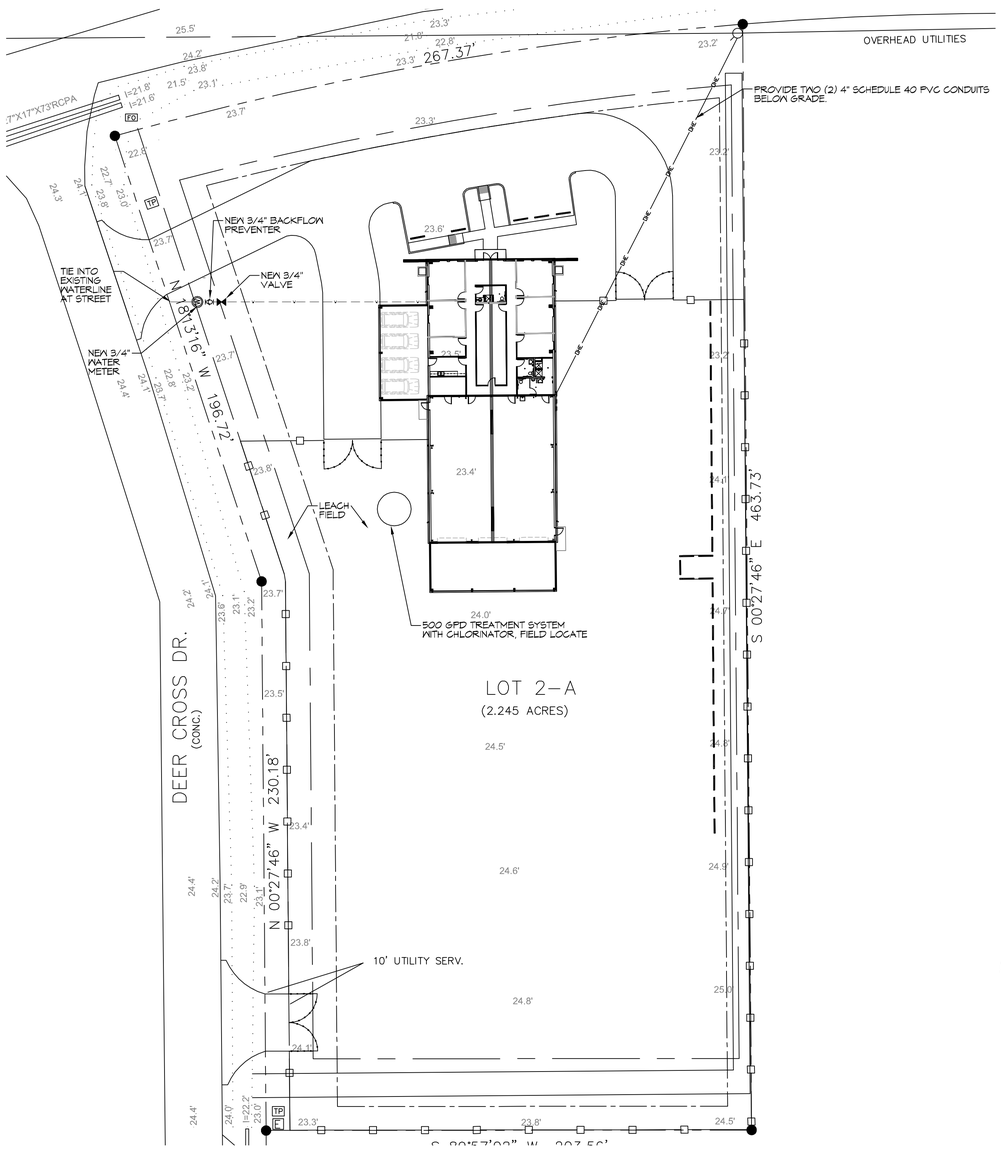
2 DETAIL SCALE: N.T.S. — TYPICAL PIPE BEDDING



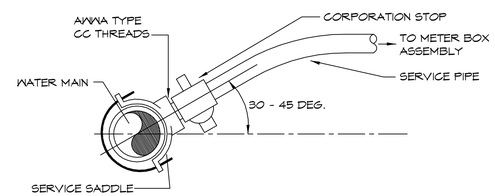
3 DETAIL SCALE: N.T.S. — SEWER CLEAN OUT



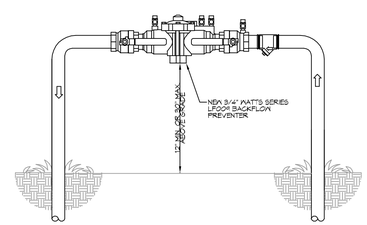
4 DETAIL SCALE: N.T.S. — SEWER AND WATER SEPERATION



1 SITE UTILITY PLAN SCALE: 1" = 30'-0"



5 WATER SERVICE CONNECTION SCALE: N.T.S. — TYPICAL



6 TYPICAL RISER DETAIL SCALE: N.T.S. — TYPICAL

CONTRACTOR SHALL CONTACT TAMMANY UTILITIES, (TU) @ 985-893-1717 REGARDING WATER AND SEWERAGE AVAILABILITY. WATER COULD BE AVAILABLE THROUGH A BORE. SEWERAGE MAY BE AVAILABLE WITH THE INSTALLATION OF A LIFT STATION. IF TU DETERMINES WATER AND OR SEWERAGE IS NOT AVAILABLE, YOU MUST CONTACT THIS OFFICE FOR FURTHER DISCUSSION AND OR INSTRUCTIONS. GRETCHEN SEYMOUR 09-06-19

GENERAL SITE NOTES

1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS, AND INVERTS PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
2. CONTRACTOR TO BE RESPONSIBLE TO VERIFY ANY INVERTS AND SET NEW INVERTS OF SEWAGE AND DRAINAGE PIPES.
3. ALL WORK AND MATERIAL TO COMPLY STRICTLY TO THE LATEST LOCAL CITY PARISH, STATE, AND NATIONAL GOVERNING CODES.
4. SEWAGE LINES 3" AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES THAT ARE 4" AND LARGER SHALL BE SLOPED 1/8" PER FOOT.
10. CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL PRIOR TO COMMENCEMENT OF SITE EXCAVATION.

SITE UTILITIES LEGEND

—— v —— v ——NEW WATER LINE

———,———NEW ELECTRICAL LINE

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REVISIONS

#	DESCRIPTION	DATE

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH, License No. 30187, 9/26/2019, PROFESSIONAL ENGINEER

NEW OFFICE WAREHOUSE

ZEIGLER TREE & TIMBER, CO.

LA. HWY 1085 DEER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2393	DATE:	9-26-2019
DRAWN BY:	CAD	CHECKED BY:	BAM

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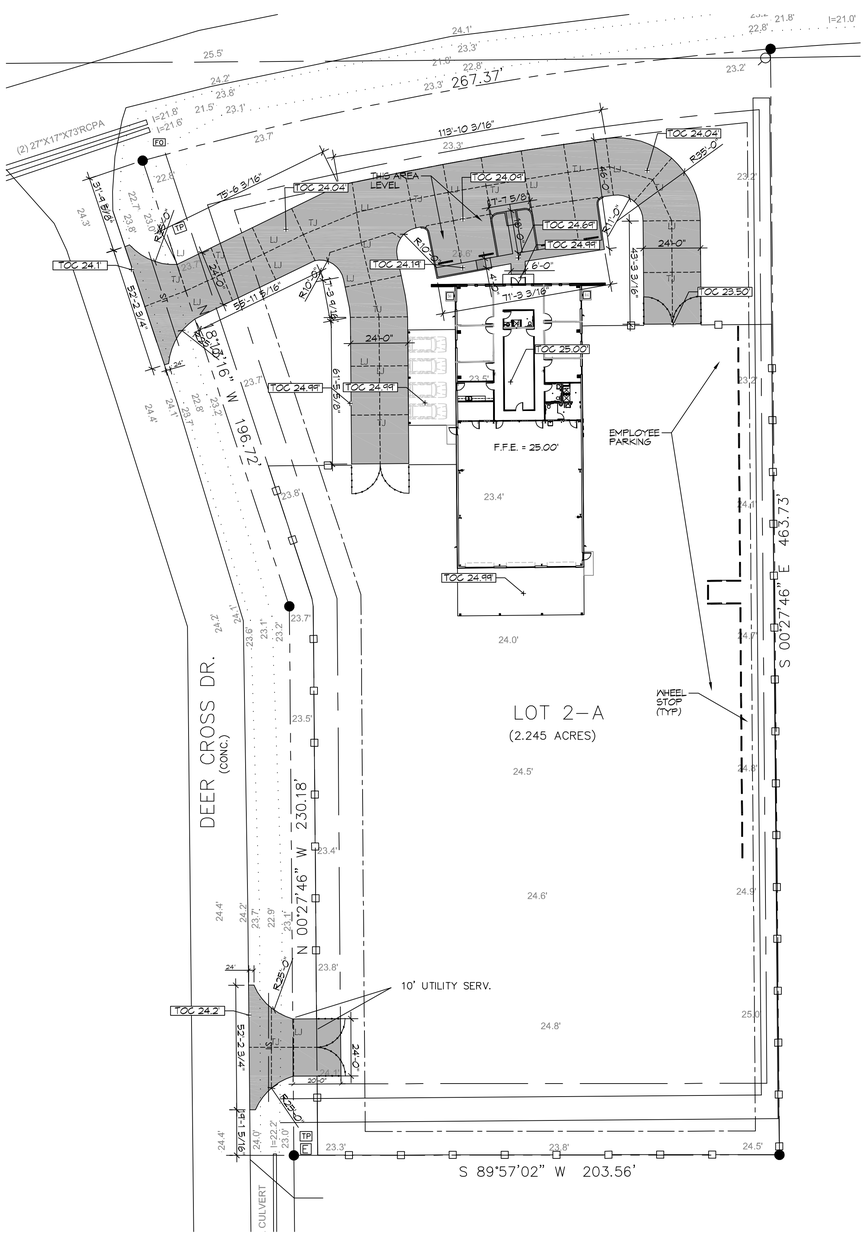
SHEET TITLE: SITE UTILITY PLAN

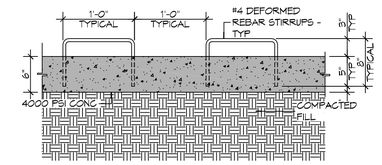
DRAWING NUMBER: C100

SHEET No: 1 of 8

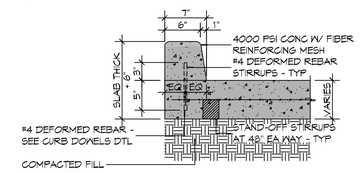


7 SITE PAVING PLAN

SCALE: 1" = 30'-0"

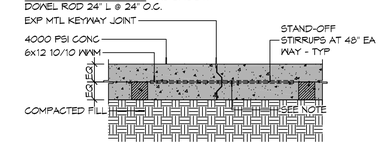


F CURB DOWEL DETAIL

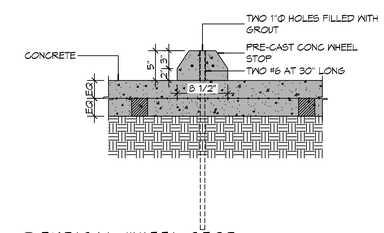


E TYPICAL CURB

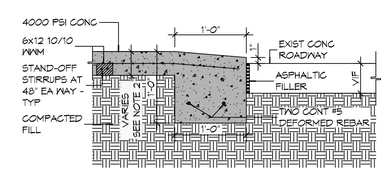
6" MTL KEYWAY JOINT SYSTEM NOTE:
LONGITUDINAL JOINTS (LJ) No.5 DEFORMED DOWEL ROD 24" L @ 24" O.C.
TRANSVERSE JOINTS (TJ): No.5 SMOOTH DOWEL ROD 24" L @ 24" O.C.



D TYPICAL PAVEMENT JOINT



C TYPICAL WHEEL STOP



A DRIVEWAY ROLLOVER CURB

8 PAVING DETAILS

SCALE: 1" = 1'-0"

GENERAL PAVING NOTES

1. ALL NEW CONCRETE SHALL 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. CONCRETE PAVING THICKNESS SHALL VARY AS FOLLOWS:
   a. APRONS & LOADING AREAS = 8" THICKNESS (INDICATED WITH CROSS HATCH WHERE OCCURS)
   b. DRIVE LANES & PARKING AREAS = 6" THICKNESS (STANDARD UNO)
3. ALL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
4. 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.
5. ALL SUB GRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6" LIFTS.
6. ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

PAVING LEGEND

- TOC XXXX — TOP OF CONCRETE ELEVATION
- TOG XXXX / INV XXXXX — TOP OF GRATE ELEVATION / INVERT OF PIPE ELEVATION
- LJ — LONGITUDINAL JOINTS (LJ) = NO. 5 DEFORMED DOWEL RODS 24" LONG @ 24" O. C.
- TJ — TRANSVERSE JOINTS (TJ) = NO. 5 SMOOTH DOWEL RODS 24" LONG @ 24" O. C.
- PARKING WHEEL STOP FOR EMPLOYEES
- +000.00 — EXISTING TOPO

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REVISIONS

#	DESCRIPTION	DATE

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH, License No. 30187, PROFESSIONAL ENGINEER — 9/26/2019

NEW OFFICE WAREHOUSE
ZEIGLER TREE & TIMBER, CO.
LA. HWY 1085 DEER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2383	DATE:	9-26-2019
DRAWN BY:	CAD	CHECKED BY:	BAM

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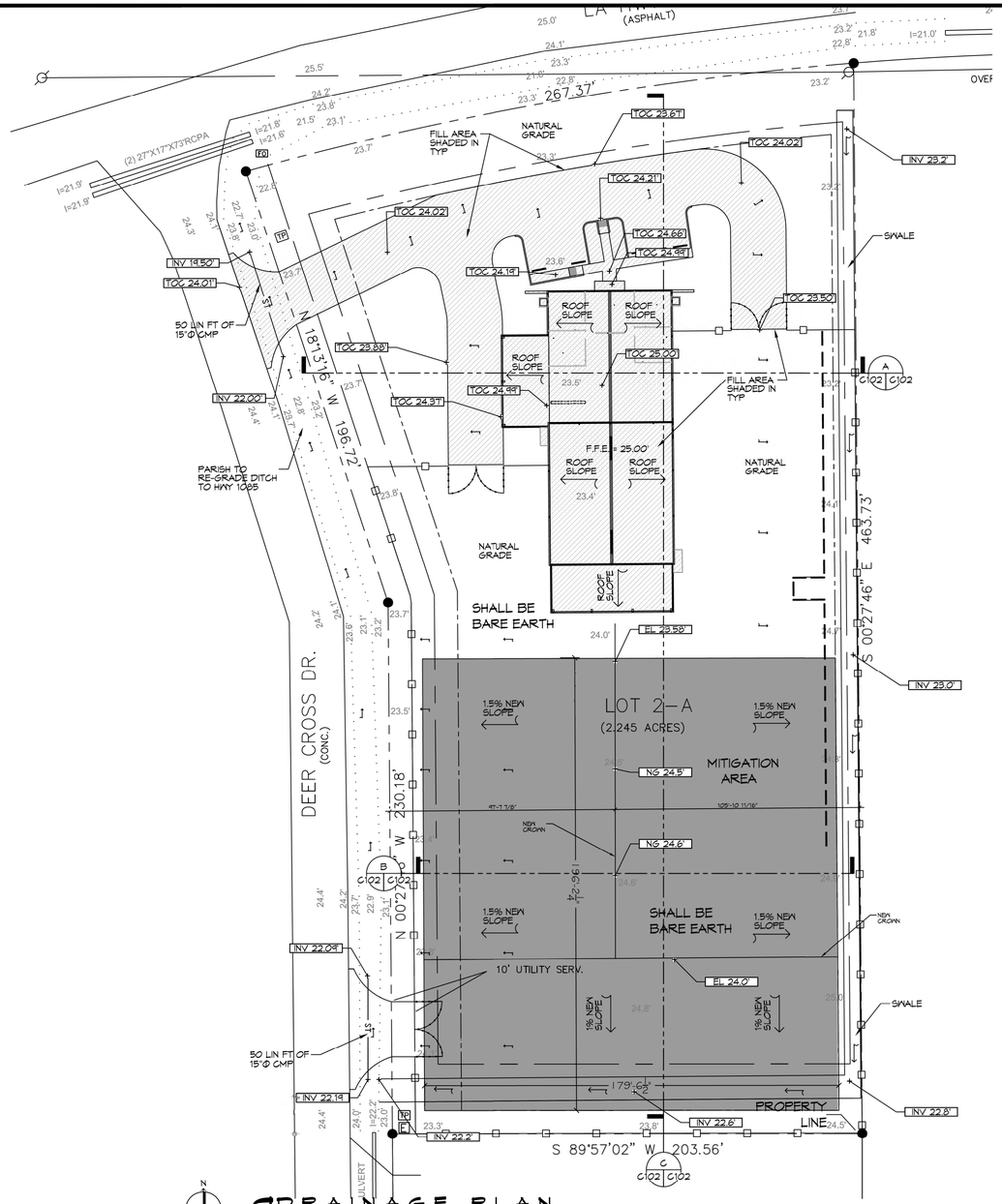
SHEET TITLE: SITE PAVING PLAN

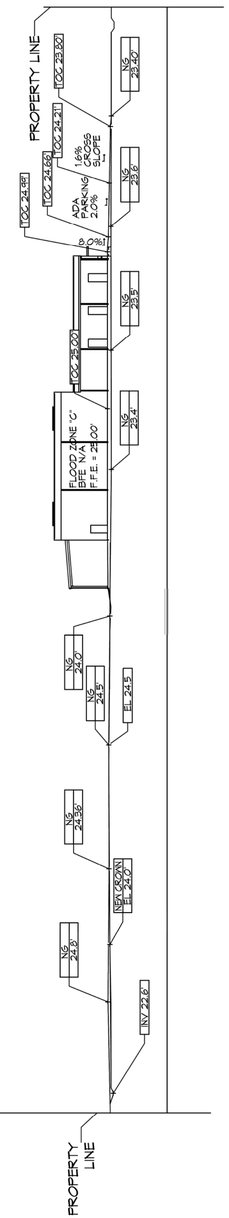
DRAWING NUMBER: C101

SHEET No: 2 of 8



9 DRAINAGE PLAN

SCALE: 1" = 30'-0"



C MITIGATION SECTION

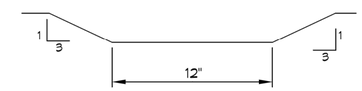
C102 C102 SCALE: 1" = 30'-0"

DRAINAGE NOTES

1. ELEVATIONS SHOWN ARE MSL.
2. FIELD VERIFY ALL ELEVATIONS AND AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
3. PROVIDE VERTICAL ELBOW AT DOWNSPOUTS WITH SPLASH BLOCKS.

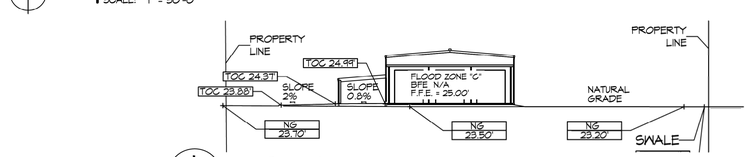
DRAINAGE LEGEND

- TOC XXX.X — TOP OF CONCRETE ELEVATION
- TOG XXX.X — TOP OF GRATE ELEVATION
- INV XXX.XX — INVERT OF PIPE ELEVATION
- "13" — CMP (CORRAGATED METAL PIPE) DRAINAGE OF FLOW ARROW, SEE PLAN FOR SIZE
- EL XXX.X — NEW ELEVATION
- NG XXX.X — NATURAL GRADE
- SLOPE



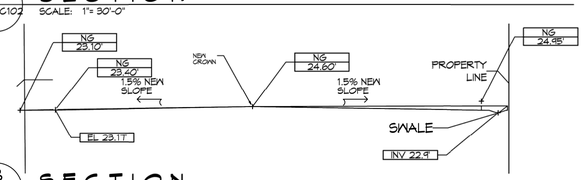
14 SWALE

SCALE: N.T.S.



A SECTION

C102 C102 SCALE: 1" = 30'-0"



B SECTION

C102 C102 SCALE: 1" = 30'-0"

CUT/FILL CALCS

FILL MITIGATION VOLUME;

Bldg + Rear Covered Parking	(200.7 sf x 53 ft) = 10,637.1 cf
Side Covered Parking	(23.1 sf x 40 ft) = 924.0 cf
Paving = (Drive 132.2 sf x 24 ft) + (Drive 16.1 sf x 95 ft) + (Parking 25.7 sf x 71 ft)	= 6,527.0 cf
TOTAL =	18,088 cf

CUT MITIGATION VOLUME

Cut Volume = (119.2 s.f. x 145 ft) + (0.1 s.f. x 237 ft) + (53.7 sf x 179.5 ft)	= 26,920 cf

EXCESS CUT TO BE REMOVED OFFSITE

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Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1	REVISED CUT/FILL CALCS	9/26/2019

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH, License No. 30187, 9/26/2019, PROFESSIONAL ENGINEER

NEW OFFICE WAREHOUSE
ZEIGLER TREE & TIMBER, CO.
LA. HWY. 1085 DEER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2393	DATE:	9-26-2019
DRAWN BY:	CAD	CHECKED BY:	BAM

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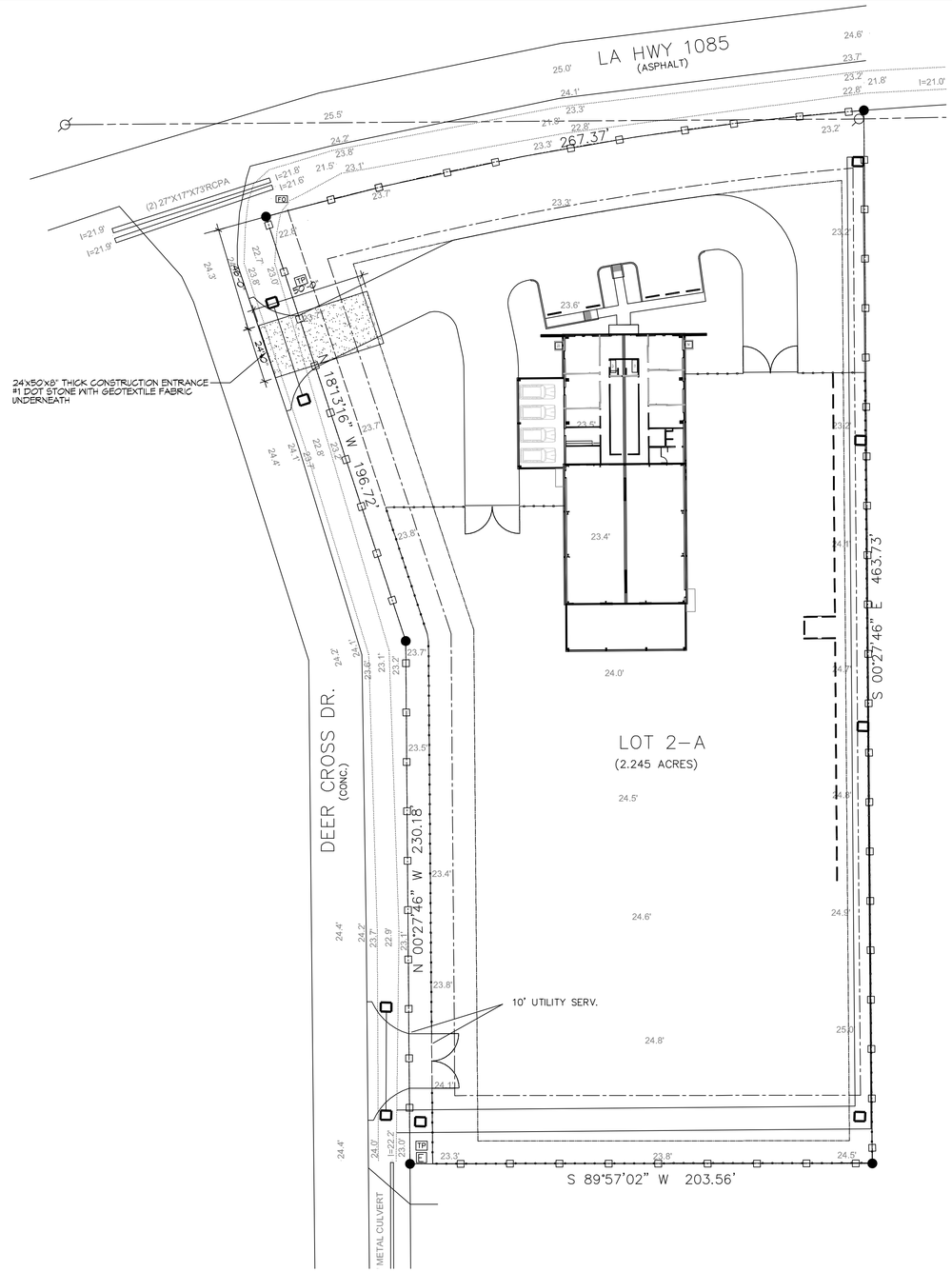
SHEET TITLE: DRAINAGE AND MITIGATION PLAN

DRAWING NUMBER: C102

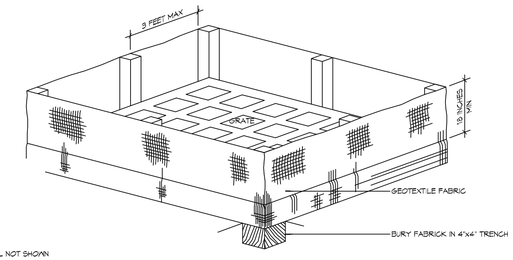
SHEET No: 3 of 8



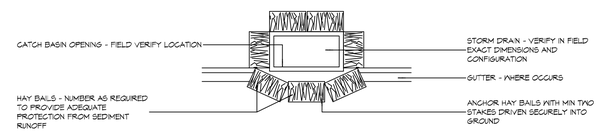
11 EROSION CONTROL PLAN
SCALE: 1" = 30'-0"

EROSION CONTROL FENCE NOTES:
THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED IN SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

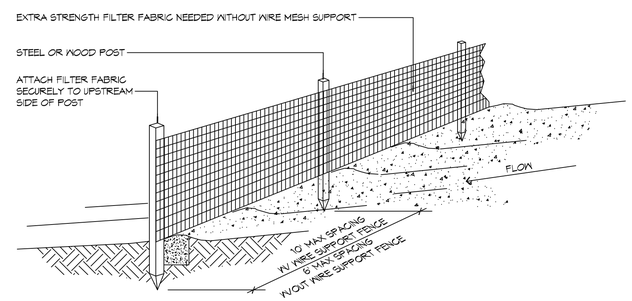
1. THE GEOTEXTILE FABRIC SHALL CONFORM TO SECTION 1019 (TYPE G) OF THE LA DOTD STANDARD SPECIFICATIONS.
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1'-6" AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO POST WITH 1/2" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND MAKE SURE EACH STAKE IS FIRMLY IN THE GROUND.



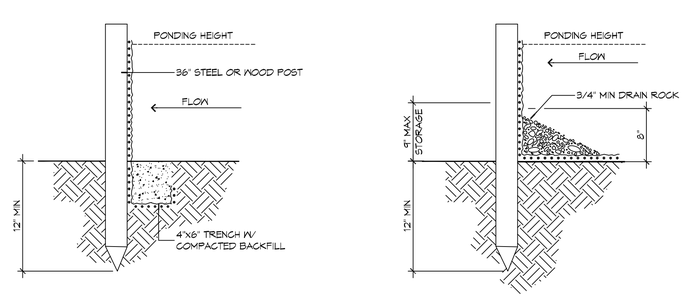
12 DETAIL
SCALE: NTS
EROSION CONTROL FENCE AT GRATE



13 DETAIL
SCALE: NTS
CATCH BASIN PROTECTION



A SILT FENCE



B SILT FENCE

C FENCE WITH FENCE

14 DETAILS
SCALE: NTS
ERISION CONTROL FENCE AT PROPERTY LINE OR LIMITS OF CONSTRUCTION

GENERAL EROSION CONTROL NOTES

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS OF THE AUTHORITY HAVING JURISDICTION.
3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS, AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL THE SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S STANDARDS.
6. THE SITE SHALL BE AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
7. ALL CATCH BASIN INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THESE PLANS.
8. ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

SILT FENCE INSTALLATION NOTES

1. THE BASE OF BOTH END POSTS MUST BE AT LEAST 2'-4" ABOVE THE TOP OF THE SILT FENCE FABRIC ON THE MIDDLE POSTS FOR DITCH CHECKS TO DRAIN PROPERLY. USE A HAND LEVEL OR STRING LEVEL, IF NECESSARY, TO MARK BASE POINTS BEFORE INSTALLATION.
2. INSTALL POSTS 3 - 4 FEET APART IN CRITICAL WATER RETENTION AREAS AND 6 - 7 FEET APART ON STANDARD APPLICATIONS.
3. INSTALL POSTS 24" DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FENCE FABRIC.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45° THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ADDITIONALLY, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. NO MORE THAN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND LEVEL.
8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE SILT IF NECESSARY.
9. COMPACTING IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 PSI OF PRESSURE. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
10. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
11. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. NINE INCH MAXIMUM RECOMMENDED STORAGE HEIGHT.
12. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL OT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

EROSION CONTROL LEGEND

HAY BAILS

SILT FENCE

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#	DESCRIPTION	DATE
	REVISIONS	

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
9/26/2019
PROFESSIONAL ENGINEER

NEW OFFICE WAREHOUSE
ZEIGLER TREE & TIMBER, LLC.
LA HWY 1085 DEER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2383
DATE:	9-26-2019
DRAWN BY:	CKD
CHECKED BY:	BAM

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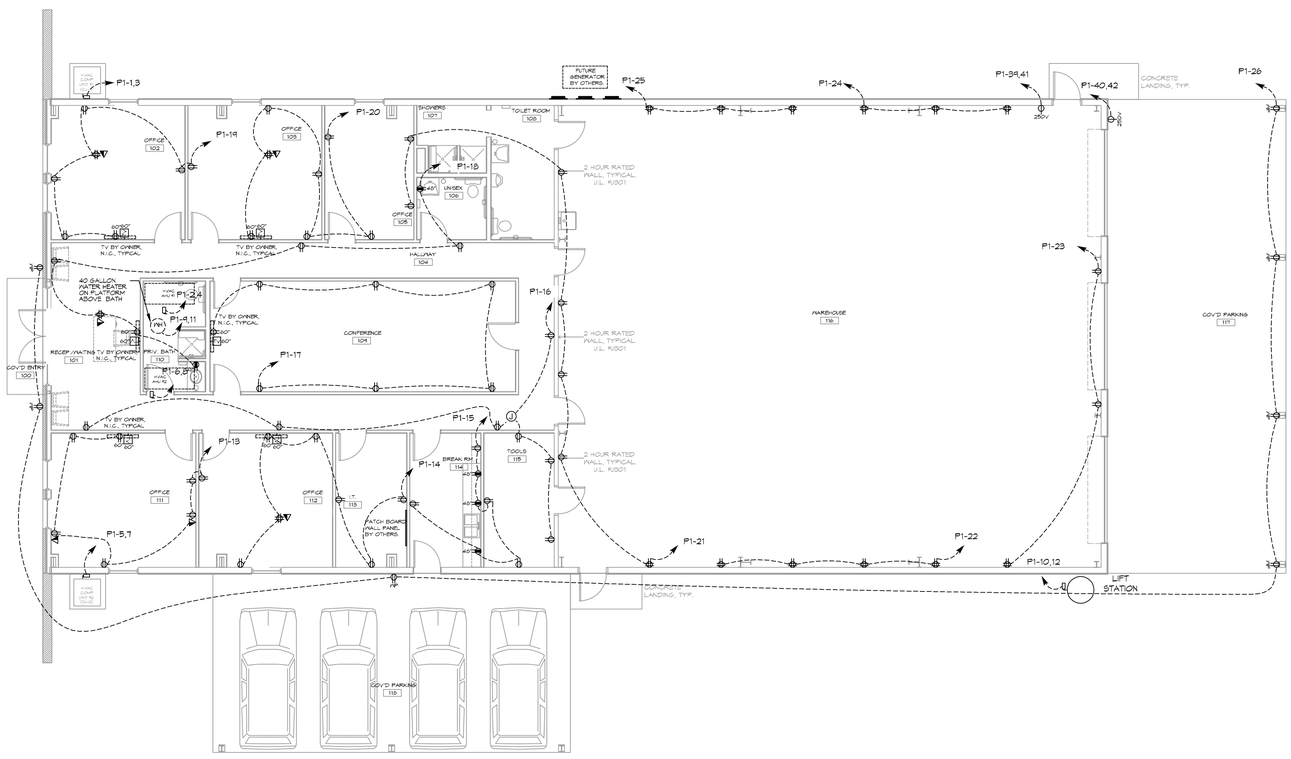
SHEET TITLE:
EROSION CONTROL AND DETAILS

DRAWING NUMBER:
C103

SHEET No: 4 of 8

FILE NAME: J:\1-Office Workbooks\2383 - Zeigler Tree Service\Drawings\Current Drawings\C103 - Site Erosion Control Plan & Details.dwg PLOT DATE & TIME: Thursday, September 26, 2019 10:25:49 AM



N

15 POWER PLAN

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

GENERAL POWER 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. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
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 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. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
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. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
10. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS. FOR CONDUITS BELOW GRADE . EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
11. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
12. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
13. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN A KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
14. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-63, NFPR 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-230.
16. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.
18. 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 ABUTTING PROPERTY LINE.
19. 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.)
20. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

LEGEND

- 15 AMP - 120 VOLT, DUPLEX CONVENIENCE OUTLET, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- 15 AMP - 120 VOLT, GROUND FAULT DUPLEX CONVENIENCE OUTLET, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- 15 AMP - 120 VOLT, QUADRAPLEX (2 DUPLEX) CONVENIENCE OUTLETS, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- 15 AMP - 120 VOLT, DUPLEX CONVENIENCE OUTLET, "FLOOR" MOUNTED.
- 15 AMP - 120 VOLT, QUADRAPLEX (2 DUPLEX) CONVENIENCE OUTLETS, "FLOOR" MOUNTED.
- 15 AMP - 120 VOLT, GROUND FAULT DUPLEX CONVENIENCE OUTLET, WITH WEATHERPROOF COVER PLATE, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- 250 VOLT, SINGLE OUTLET, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE. COORDINATE AMPERAGE AND PLUG CONFIGURATION WITH EQUIPMENT BEING SERVED.
- DUAL VOICE/DATA OUTLET, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- DATA OUTLET, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- TV — COAXIAL TELEVISION OUTLET, MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- ELECTRICAL DISCONNECT SWITCH. SIZED, CIRCUITED, AND MOUNTED PER CODE.
- ELECTRICAL PANEL. SIZED, CIRCUITED, AND MOUNTED PER CODE.
- ELECTRIC METER, MOUNTED PER CODE.

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Chief Engineer: Brian Mistich, PE
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Slidell, LA 70458

#	DESCRIPTION	DATE
	REVISIONS	

SEAL:

STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — 9/26/2019 — PROFESSIONAL ENGINEER

NEW OFFICE WAREHOUSE

ZEIGLER TREE & TIMBER, CO.

LA HWY 1035 DEER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2383	DATE:	9-26-2019
DRAWN BY:	CAD	CHECKED BY:	BAM

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SHEET TITLE:
POWER PLAN

DRAWING NUMBER:

E101

SHEET No: 5 of 8

FILE NAME: J:\- Office Structure\2383 - Zeigler Tree Service\Drawings\Current Drawings\E101 - Power Plan.dwg PLOT DATE & TIME: Thursday, September 26, 2019 10:22:23 AM

PANEL SCHEDULE

PANEL: PANEL #1
LOCATION: OUTSIDE
FEEDER SOURCE: UTILITY COMPANY

VOLTAGE: 120/240V, 225A, 1Φ, 3W
ENCLOSURE: RAIN MOUNTED, NEMA 1 RAISED W/EQUIP GND BAR, 225A M.B. SBSAIC

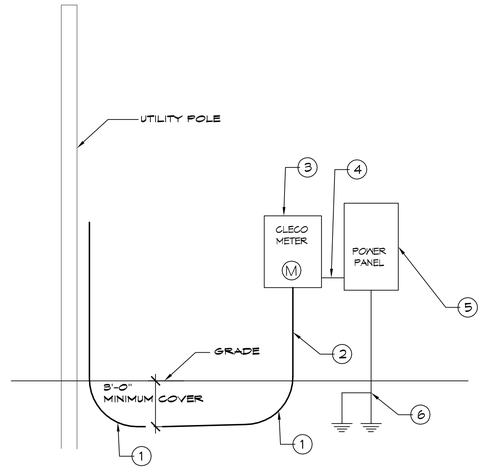
CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (KVA)		LOAD (KVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT NO
1	#10	2.5 TON CU-1	20	2	1.3	AΦ	2.4	2	25	2.5 TON AHU-1; 3.0 KW	#10	2
3					1.3	BΦ	2.4					4
5	#10	5 TON CU-2	60	2	3.5	AΦ	4.1	2	35	5 TON AHU-2; 4.0 KW	#6	6
7					3.5	BΦ	4.1					8
9	#10	HOT WATER HEATER	30	2	2.3	AΦ	1.7	2	20	GRINDER PUMP/LIFT STATION	#10	10
11					2.3	BΦ	1.7					12
13	#12	ROOM 111 OUTLETS	20	1	1.3	AΦ	1.4	1	20	ROOMS 112 & 113 OUTLETS	#12	14
15	#12	ROOMS 114 & 115 OUTLETS	20	1	1.3	AΦ	1.3	1	20	ROOM 119 & HALLWAY OUTLETS	#12	16
17	#12	ROOM 104 OUTLETS	20	1	1.3	AΦ	1.4	1	20	ROOMS 101, 110 & HALLWAY 104 OUTLETS	#12	18
19	#12	ROOM 102 OUTLETS	20	1	1.4	AΦ	1.4	1	20	ROOM 103 & 105 OUTLETS	#7	20
21	#12	ROOM 105 & WAREHOUSE 116 OUTLETS	20	1	1.4	AΦ	1.4	1	20	WAREHOUSE 116 OUTLETS	#12	22
23	#12	WAREHOUSE 116 OUTLETS	20	1	1.4	AΦ	1.1	1	20	WAREHOUSE 116 OUTLETS	#12	24
25	#12	WAREHOUSE 116 OUTLETS	20	1	1.1	AΦ	1.3	1	20	OUTSIDE OUTLETS	#12	26
27	#12	RM 102, 103, 105, 108, 109 LGTS	20	1	0.7	AΦ	0.4	1	20	ENTRANCE 101 & HALLWAY 104 LGTS	#12	28
29	#12	RM 104 & 110 LIGHTS	20	1	0.4	AΦ	0.4	1	20	RM 111, 112, 113, 114, 115 & 118 LGTS	#12	30
31	#12	OUTSIDE LIGHTS	20	1	0.9	AΦ	0.4	1	20	RM 116 STRIP LGTS, 117 LGTS	#12	32
33	-	SPARE	20	1	-	AΦ	--	1	20	SPARE	--	34
35	-	SPARE	20	1	-	AΦ	1.0	2	20	WAREHOUSE LOW BAY LIGHTS	#12	36
37	-	SPARE	20	1	-	AΦ	1.0					38
39	#10	WAREHOUSE 116 240V OUTLET	30	2	2.3	AΦ	2.3	2	30	OUTSIDE 240V OUTLET	#10	40
41					2.3	BΦ	2.3					42

SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD = 65.1 kva

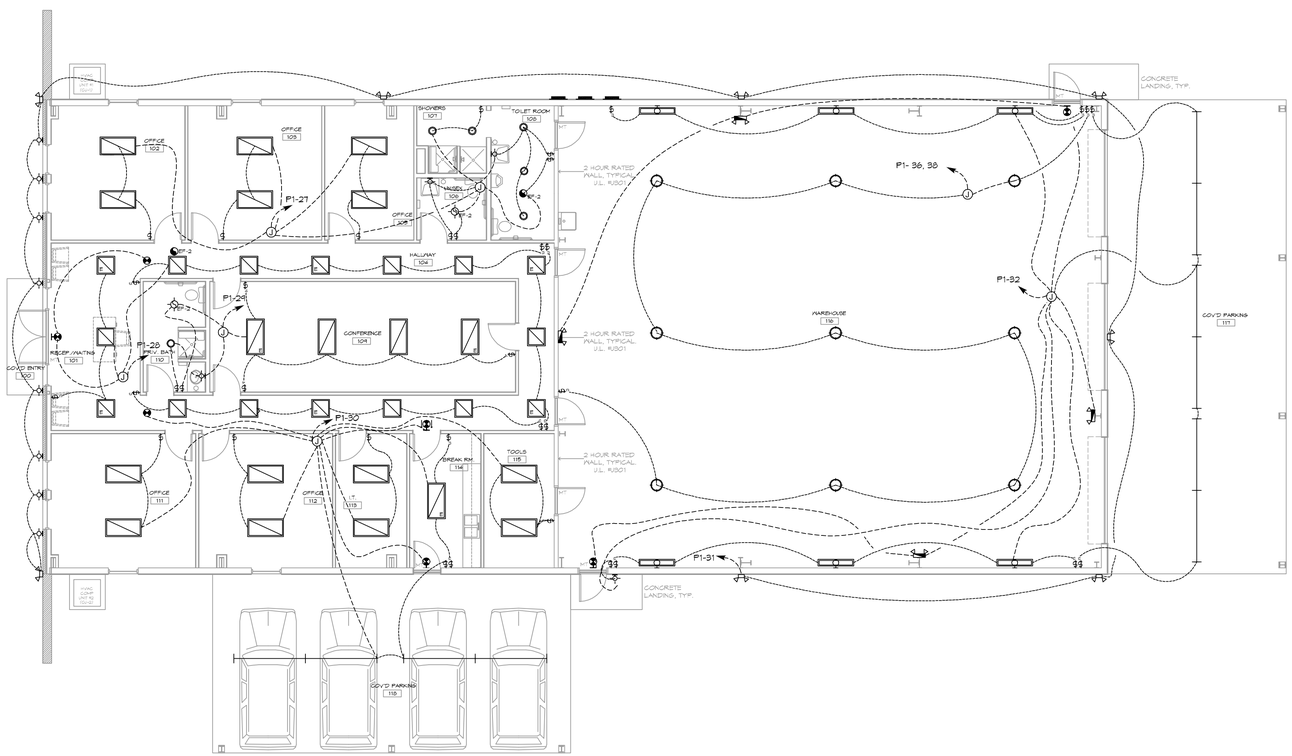
AΦ = 33.3 kva | BΦ = 31.8 kva

GROUND BUS
GROUND WIRE (G)



ONE LINE NOTES:

1. 36" LONG SWEEP ELBOW
2. PROVIDE TWO (2) 4", SCHEDULE 40 PVC CONDUIT BELOW GRADE AND SCH 80 PVC CONDUIT ABOVE GRADE WITH SUITABLE FISH WIRE.
3. 120/240V 1Φ 225amp METER PAN.
4. 3-250 MCM THHN, 1-#2 CU GND, 2 1/2" C
5. 120/240V 1Φ 225amp PANELBOARD WITH MAIN BREAKER.
6. 2-3/4" X 10' CU CLAD GND ROD, #2 CU GND WIRE. PROTECT IN PVC PIPE. CONNECT TO METAL BLDG, COLD WATER SUPPLY & GAS LINE. CAD WELD ALL CONNECTIONS.



N

16 LIGHTING PLAN
SCALE: 1/8"=1'-0"

GENERAL LIGHTING NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE AND LOCATION OF DEVICES AND/OR FIXTURES.
4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS AND HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
5. ALL CONDUCTORS SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE.
6. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS SHALL BE COPPER.
8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
9. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF ALL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
10. WHERE FLUORESCENT FIXTURES ARE SHOWN TO BE DIMMED, THE FIXTURES SHALL HAVE DIMMING TYPE BALLASTS WHICH ARE COMPATIBLE WITH THE SPECIFIED DIMMERS.
11. WHERE LED FIXTURES/LAMPS ARE SHOWN TO BE DIMMED, THE DIMMER SHALL BE COMPATIBLE WITH THE FIXTURE/LAMP SPECIFIED OR PROVIDED.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.

LEGEND

- RECESSED 2' x 4' "LED" LIGHT FIXTURE, TO BE SELECTED. ("E" DENOTES FIXTURE ON EMERGENCY LIGHTING CIRCUIT)
- RECESSED 2' x 2' "LED" LIGHT FIXTURE, TO BE SELECTED. ("E" DENOTES FIXTURE ON EMERGENCY LIGHTING CIRCUIT)
- RECESSED "LED" "DOWN" LIGHT FIXTURE, TO BE SELECTED. ("E" DENOTES FIXTURE ON EMERGENCY LIGHTING CIRCUIT)
- RECESSED VENT/LIGHT FIXTURE, TO BE SELECTED.
- RECESSED EXHAUST FAN, TO BE SELECTED.
- CEILING MOUNTED "LED" "HIGH-BAY" LIGHT FIXTURE, TO BE SELECTED.
- ADJUSTABLE WALL WASHER LIGHT FIXTURE, TO BE SELECTED.
- 8' L. CEILING MOUNTED "LED" STRIP LIGHT FIXTURE, TO BE SELECTED.
- WALL MOUNTED "LED" LIGHT FIXTURE, TO BE SELECTED.
- WALL MOUNTED "SECURITY" LIGHT FIXTURE, TO BE SELECTED.
- SINGLE POLE WALL SWITCH, MOUNTED AT 48" A.F.F., UNLESS NOTED OTHERWISE.
- THREE WAY WALL SWITCH, MOUNTED AT 48" A.F.F., UNLESS NOTED OTHERWISE.
- FOUR WAY WALL SWITCH, MOUNTED AT 48" A.F.F., UNLESS NOTED OTHERWISE.
- WALL OR CEILING MOUNTED "EXIT" LIGHT, WITH BATTERY BACKUP ON EMERGENCY CIRCUIT, TO BE SELECTED.
- WALL MOUNTED "EMERGENCY" LIGHT, WITH BATTERY BACKUP ON EMERGENCY CIRCUIT, TO BE SELECTED.
- ELECTRICAL DISCONNECT SWITCH, SIZED, CIRCUITED, AND MOUNTED PER CODE.
- ELECTRICAL PANEL, SIZED, CIRCUITED, AND MOUNTED PER CODE.
- ELECTRIC METER, MOUNTED PER CODE.
- JUNCTION BOX

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#	DESCRIPTION	DATE

REVISIONS

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
9/26/2019
PROFESSIONAL ENGINEER

NEW OFFICE WAREHOUSE
NEIGLER TREE & TIMBER, CO.
LA. HWY. 1085 DEER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2383	DATE:	9-26-2019
DRAWN BY:	GKD	CHECKED BY:	BAM

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SHEET TITLE:
LIGHTING PLAN

DRAWING NUMBER:

E102

SHEET No: 6 of 8

FILE NAME: J:\+ Office Warehouse\2383 - Zeigler Tree Service\Drawings\Current Drawings\E102 - Lighting Plan.dwg PLOT DATE & TIME: Thursday, September 26, 2019 1:52:27 PM

DX SPLIT SYSTEM SCHEDULE

AIR HANDLER														CONDENSER						
TAG	TRANE MODEL NO.	NOMINAL TONS	TOTAL CFM	OA CFM	COOLING		Motor HP	ESP (" WC)	HEAT KW	POWER			TAG	TRANE MODEL NO.	POWER			REMARKS
					TMBH	SBH				VAC	PH	MCA			VAC	PH	MCA	
AHU-1	TEM6A0B30	2.5	880	80	26.4	22	1/3	0.04	3.8	240	1	24	CU-1	4TTR5030E1	240	1	12	1, 2, 3, 4
AHU-2	TEM6A0D60	5	1680	220	54.8	41.5	3/4	0.05	4.8	240	1	34	CU-2	4TTR5060E1	240	1	34	1, 2, 3, 4

NOTES:
1. Provide inlet filter box, single point power connection, expansion valve, crankcase heat, time delay relay, condensate overflow switch & programmable 7/24 thermostat with lockable cover.
2. Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
3. Install units in accordance with manufacturer's recommendations.
4. Provide new filters after commissioning and final acceptance.

DIFFUSER SCHEDULE

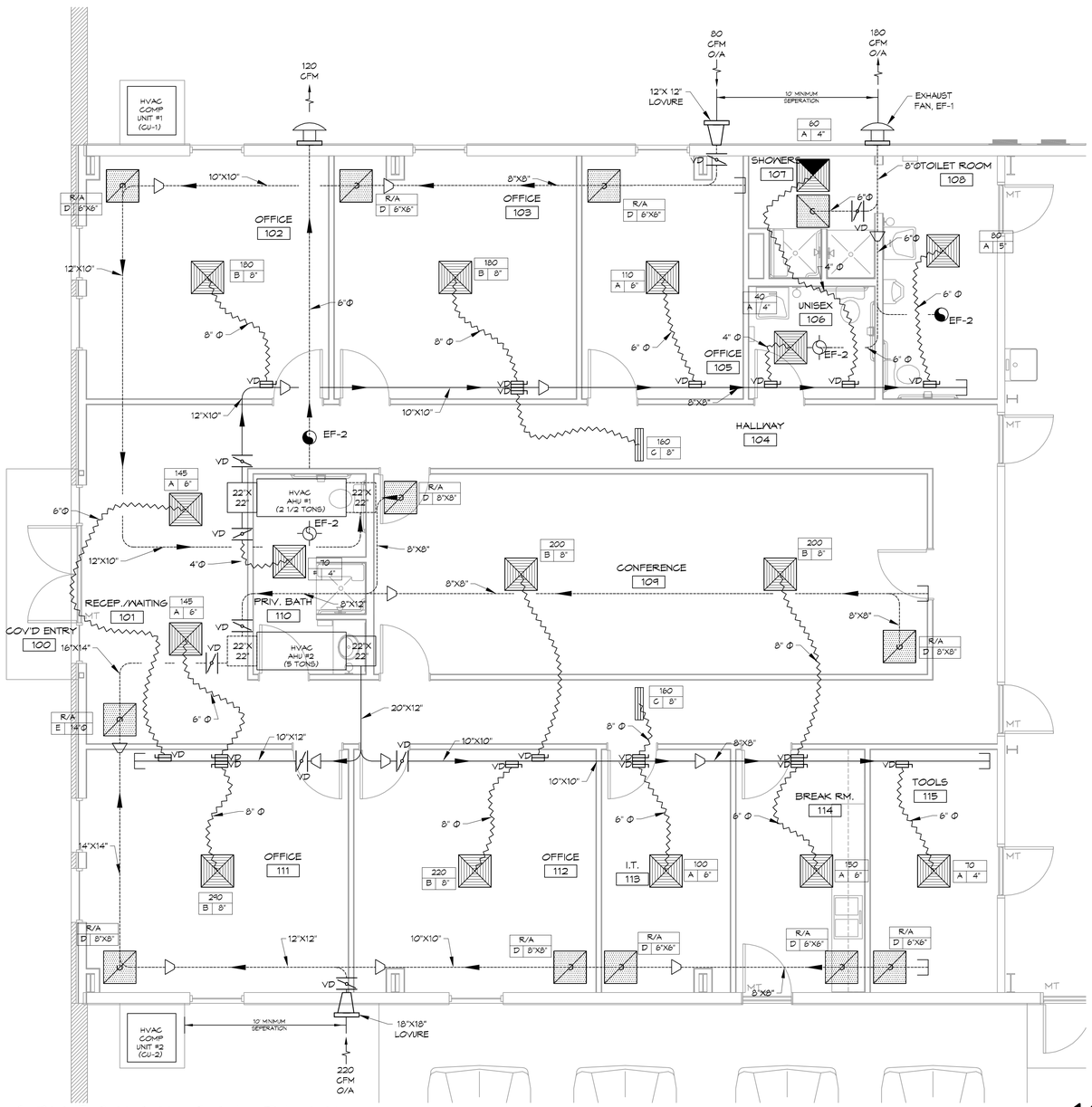
TAG	SERVICE	NECK SIZE	DESCRIPTION
A	SUPPLY AIR	REF. PLAN	12"x 12" FIXED PATTERN PLAQUE, TITUS "OMNI" WITH DAMPER
B	SUPPLY AIR	REF. PLAN	24"x 24" FIXED PATTERN PLAQUE, TITUS "OMNI" WITH DAMPER
C	SUPPLY AIR	REF. PLAN	24" x 2 SLOT LINEAR DIFFUSER, TITUS FL-10 WITH PLENUM & DAMPER
D	RETURN AIR	REF. PLAN	16" X 16" PERFORATED RETURN, TITUS PAR WITH DAMPER
E	RETURN AIR	REF. PLAN	24" X 24" PERFORATED RETURN, TITUS PAR WITH DAMPER

1. COORDINATE WITH OWNER FOR COLORS AND FINISH

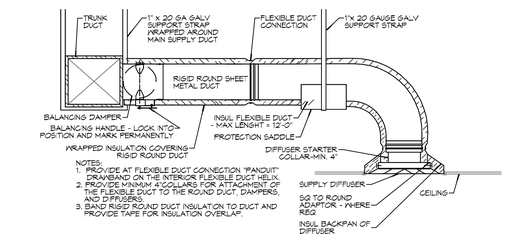
EXHAUST FAN SCHEDULE

TAG	FAN						POWER			MAKE / MODEL	REMARKS
	AIRFLOW (CFM)	TSP (" wc)	WATTS	H.P.	RPM	TYPE	VAC	PH	HZ		
EF-1	180	0.1	N/A	1/8	1160	DIRECT DRIVE CENTRIFUGAL	120	1	60	TWIN CITY DCRW-072B	1, 2, 3
EF-2	120	0.1	36	N/A	N/A	IN-LINE DIRECT DRIVE CENTRIFUGAL	120	1	60	PANASONIC FV-10NLF1	1, 2, 3

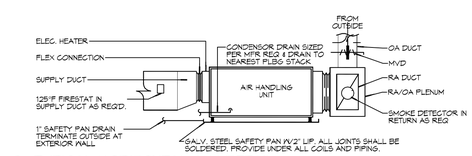
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. MANUAL BALANCING DAMPER
3. INTERLOCK WITH LIGHT SWITCH



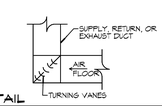
17 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



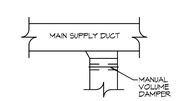
F DIFFUSER CONNECTION DETAIL - FLEX DUCT



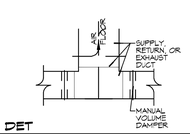
E TYPICAL HORIZONTAL AHU DETAIL



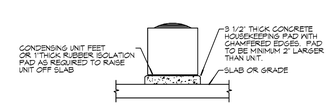
D SQUARE ELBOW DETAIL



C SUPPLY DUCT TAKE-OFF DETAIL



B DUCT SPLITTER DET



A CONDENSING UNIT MOUNT

18 DETAILS
SCALE: NTS

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6, INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 °F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING 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-E8-14).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

LEGEND

CFM
MARK | NECK SIZE

- SUPPLY AIR GRILLE 4-WAY
- RETURN AIR GRILLE
- EXHAUST FAN
- LIGHT/EXHAUST FAN FIXTURE
- THERMOSTAT
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- DAMPER CONTROL
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. DUCT SIZE AS FOLLOWS:
  250 CFM TO 350 CFM = 8"
  200 CFM TO 250 CFM = 8"
  150 CFM TO 200 CFM = 7"
  100 CFM TO 150 CFM = 6"

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#	DESCRIPTION	REVISIONS	DATE

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER
9/26/2019

NEW OFFICE WAREHOUSE
ZEIGLER TREE & TIMBER, CO.
LA. HWY 1085 PIER CROSS DRIVE
MADISONVILLE, LA 70447

JOB No:	2393
DATE:	4-26-2019
DRAWN BY:	CKD
CHECKED BY:	BAM

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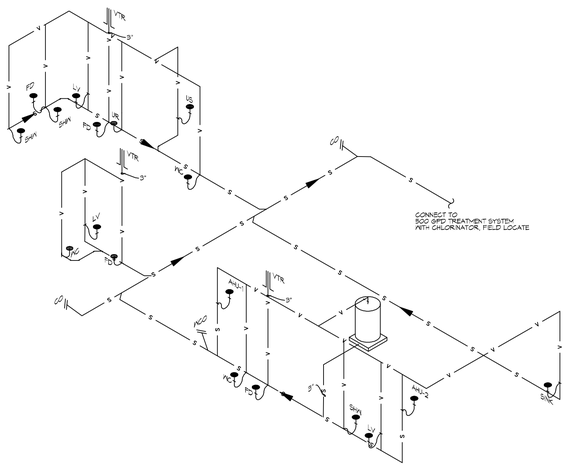
SHEET TITLE:
MECHANICAL SCHEMATIC, DETAILS & SCHEDULES

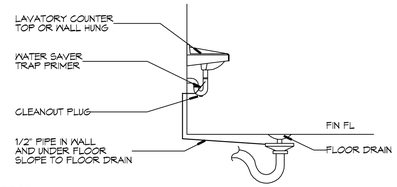
DRAWING NUMBER:
M101

SHEET No: 7 of 8

FILE NAME: J:\1 - Office Warehouse\1393 - Zeigler Tree Service\Drawings\Current Drawings\M101- Mechanical Plan.dwg PLOT DATE & TIME: Thursday, September 26, 2019 10:29:48 AM



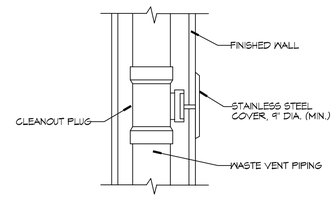
20 PLUMBING RISER DIAGRAM
SCALE: NTS



(A) FLOOR DRAIN

21 TYPICAL DETAILS
SCALE: NTS

MISCELLANEOUS PLUMBING



(A) WALL CLEANOUT

22 TYPICAL DETAILS
SCALE: NTS

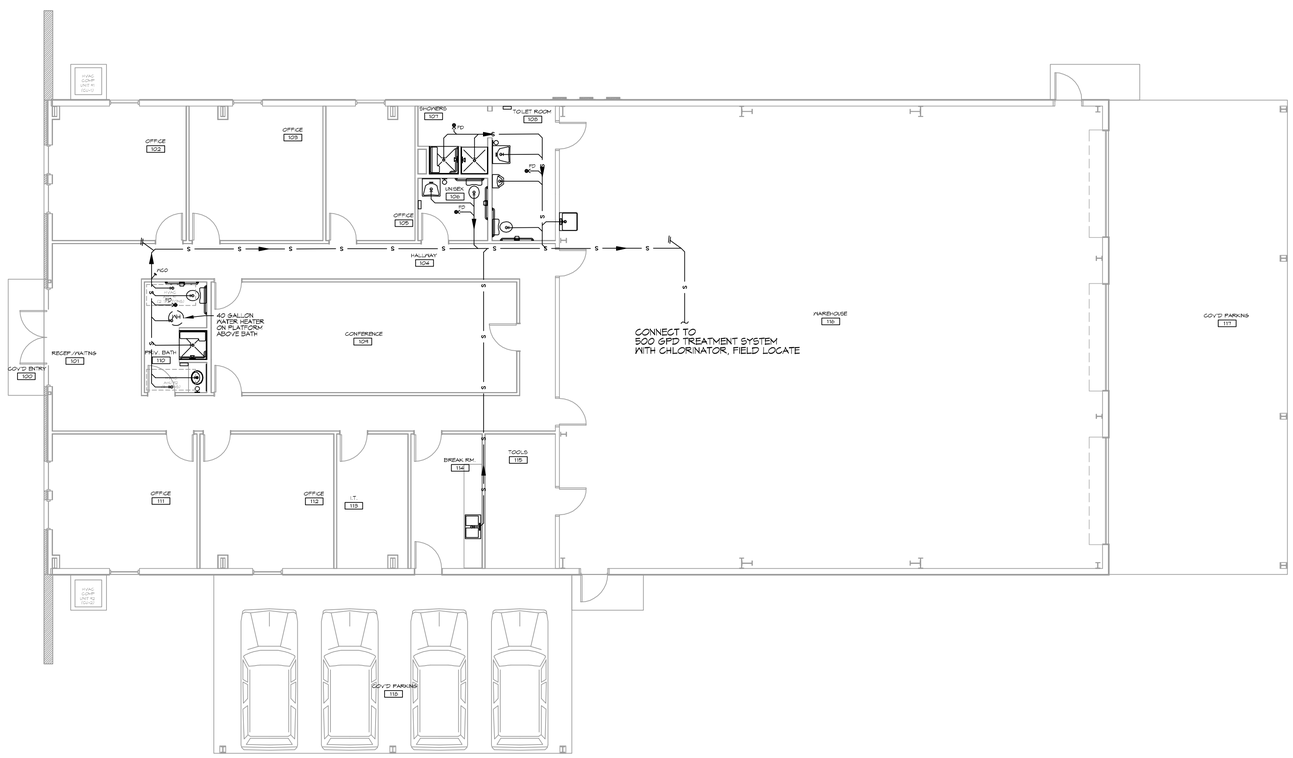
MISCELLANEOUS PLUMBING

GENERAL PLUMBING NOTES

1. PLUMBING LINES SHOWN ARE DRAWN DIAGRAMMATIC IN NATURE AND REPRESENT CONCEPTUAL ROUTING ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS.
2. PROVIDE ALL LABOR, MATERIAL, TRANSPORTATION, SUPERVISION, CLEAN-UP, SERVICES, AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME. CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
3. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL CITY, PARISH, STATE AND NATIONAL GOVERNING CODES. MUST MEET LA STATE PLUMBING CODE 2013 REQUIREMENTS.
4. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
5. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
6. SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE 1/8" PER FOOT.
7. TEST ALL PIPING AT REQUIRED PRESSURE.
8. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL, MECHANICAL SYSTEM AND ELECTRICAL SYSTEMS TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
9. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
10. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
11. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
12. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATERTUBE, TYPE L. HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER.
13. SOIL, WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHEDULE 40 OR ABS DWV PIPES AND FITTINGS WHERE PERMITTED BY CODE.
14. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION AND JACKET.
15. ALL ELECTRICAL, MECHANICAL AND PLUMBING ELEMENTS 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.)
16. SEE ROOF PLAN FOR PLUMBING ROOF PENETRATIONS. ROUTE VENT PIPES IN ATTIC AS NECESSARY.
17. ALL VENTS THROUGH ROOF (VTR) SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY MECHANICAL OR NATURAL AIR INTAKE.

PLUMBING ABBREVIATIONS

US	UTILITY SINK	WCO	WALL CLEAN OUT
LAV	LAVATORY		
WC	WATER CLOSET		
UR	URINAL		
AHU-#	AIR HANDLING UNIT		
FD	FLOOR DRAIN		
SHW	SHOWER		



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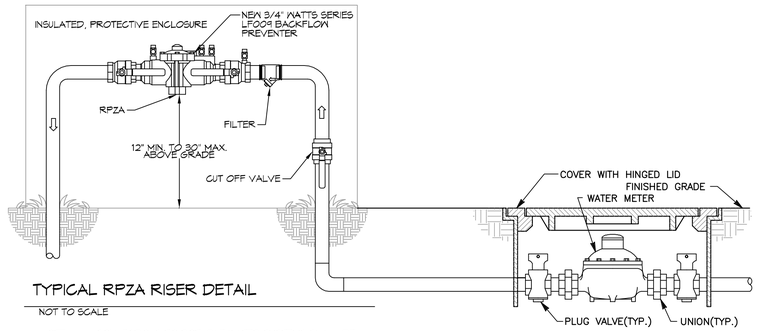
19 PLUMBING PLAN
SCALE: 3/8"=1'-0"

LEGEND

SYMBOL	DESCRIPTION
—— S —— S ——	SANITARY SEWER
—— V —— V ——	VENT PIPE
—▽●FD	FLOOR DRAIN
—‖ CO	LINE CLEAN OUT
—‖WCO	WALL CLEAN OUT

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	
WC	WATER CLOSET	4"	3"	1"	—	FLUSH VALVE; MATCH EXISTING
LAV	LAVATORY	1-1/2"	2"	1/2"	1/2" *	MATCH EXISTING
US	UTILITY SINK	3"	2"	1/2"	1/2"	FIAT MODEL #MSB 2424 OR EQUAL, 24"X24"X10" FIBERGLASS BASIN WITH MODEL #830-AA FAUCET WITH VACUUM BREAKER AND PAIL HOOK, AND MODEL #884-CC OR EQUAL MOP HANGER.
FD	FLOOR DRAIN	3"	2"	—	—	COATED CAST IRON WITH ADJUSTABLE NICKEL BRONZE GRATE, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP. EQUAL TO JAY R. SMITH 2010-B-P.
FCO	FLOOR CLEAN OUT	—	—	—	—	WADE W-6004-Y OR EQUAL, CAST IRON W/ADJUSTABLE HOUSING, ROUND HEAVY CAST IRON VANDAL PROOF TOP.
WCO	WALL CLEAN OUT	—	—	—	—	WADE #W-8453-R6 OR EQUAL, WITH BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER.



TYPICAL RPZA RISER DETAIL
NOT TO SCALE

NOTE : ALL CONNECTIONS TO POTABLE WATER SYSTEMS SHALL BE PROTECTED WITH AN APPROVED BACK-FLOW PREVENTER

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SHEET TITLE:
PLUMBING PLAN

DRAWING NUMBER:
P101

SHEET No: 8 of 8