

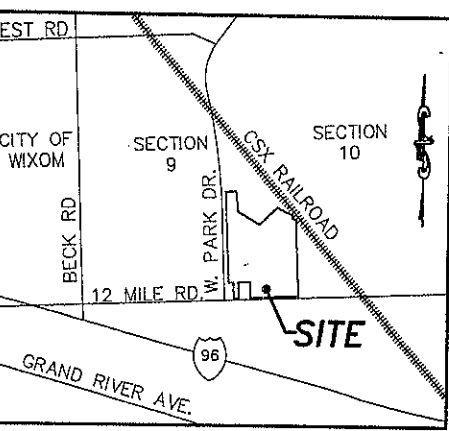
NOTES:
 ROAD COMMISSION FOR OAKLAND COUNTY PERMIT IS REQUIRED FOR ALL WORK WITHIN 12 MILE ROAD RIGHT-OF-WAY.
 CALL INSPECTOR OR PERMIT SUPERVISOR BEFORE BEGINNING ANY WORK IN R.O.W.
 PROPER SIGNING IS REQUIRED BEFORE ANY WORK IN R.O.W. IS STARTED.
 MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES.

NOTE:
 ADDITIONAL DITCHING MAY BE NECESSARY TO OBTAIN POSITIVE DRAINAGE. AS DIRECTED BY R.C.O.C. DURING CONSTRUCTION.

TWELVE MILE RD. (66' WIDE)

LEGEND

(---)	EXISTING STORM	FF	FINISH FLOOR
(---)	EXISTING WATER MAIN	(→)	PROP. DRAINAGE ARROW
(---)	EXISTING SANITARY	√TP 40.00	PROP. TOP OF PAVEMENT ELEV.
(---)	EXISTING GAS	√TC 40.00	PROP. TOP OF CURB ELEV.
(□)	EX. CATCH BASIN	√GU 40.00	PROP. GUTTER ELEV.
(○)	EX. MANHOLE	√TW 40.00	PROP. TOP OF WALK ELEV.
(▽)	EX. END SECTION	√40.00	PROP. SPOT ELEV.
(▽)	SET IRON	940	PROP. CONTOUR
(▽)	EX. GUY WIRE	(■)	PROP. CATCH BASIN
(~)	EX. TREE LINE	(●)	PROP. MANHOLE
(○)	FD. IRON	(▶)	PROP. END SECTION
(M)	EX. MAILBOX	(---)	PROP. STORM SEWER
(⊗)	EX. POWER POLE		
(⊕)	EX. SIGN		



CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE INSURER SHALL BE EXPECTED TO ASSUME ANY LIABILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR ANY OTHER PERSONS.

LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS. NO WARRANTY IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF A CONFLICT IS APPARENT.

SITE DATA:
 CURRENT ZONING: I-1 LIGHT INDUSTRIAL
 REQUIRED SETBACKS: 40' FRONT, 20' EACH SIDE, 20' REAR



REVISED		
DATE:	5/10/05	
DRAWN BY:	TAG	
CHECKED BY:	D.J.L.	
0	20	40
FBK:		
CHP:		

RESIDENTIAL
SUBDIVISIONS
SITE CONDOMINIUM
MULTI-FAMILY
PLOT PLANS
CONSTRUCTION LAYOUT

SURVEYING
ALTA SURVEYS
BOUNDARY SURVEYS
TOPOGRAPHIC SURVEYS
PARCEL SPLITS

COMMERCIAL
SITE PLANNING
SITE ENGINEERING
INDUSTRIAL & MULTI-UNIT
LAND SURVEYING
CONSTRUCTION LAYOUT

ALPINE ENGINEERING INC
 46892 WEST ROAD SUITE 108 (248) 928-3701 (BUS) (248) 928-1768 (FAX)

CLIENT: **AMSON-DEMBS DEVELOPMENT**

SALES TRAILER PLAN

NOVI CORPORATE CAMPUS

SECTION: 9 TOWNSHIP: 1N RANGE: 8E

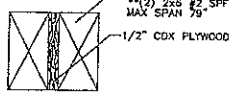
FRAME:
OUTRIGGER CROSSMEMBER, 48" O.C., OUTRIGGER 48" O.C.
1 BEAM JR. 1 BEAM, 12" UPGRADE
NOTCH: REINFORCE / DEMOUNTABLE
COUPLER: 2 5/8" STANDARD BALL TYPE COUPLER
(4) ANGLES: 800# ELECTRIC BRACK AXLE
TIRES: 8X14.5, 10 PLY RATED

FLOOR:
BOTTOM BOARD: MOVEN POLYPROPYLENE
TRANSVERSE JOIST: 2X8, 16" O.C., #2 SPF OR BETTER
RM JOIST: 2X8, #2 SPF OR BETTER
REGIONS: SINGLE 3/8" TAG PLYWOOD
INSULATION: R-19 UNFACED FIBERGLASS
COVERING: ARMSTRONG 1/8" 12"X12" BLOCK TILE THROUGHOUT
COLOR: "FORTRESS WHITE"
COVER: 30 OZ. COMMERCIAL CARPET OVER TILE (DO NOT GLUE) (NO CARPET @ ENTRY OR BATH)
COLOR: CHOOSE FROM MSC STANDARDS

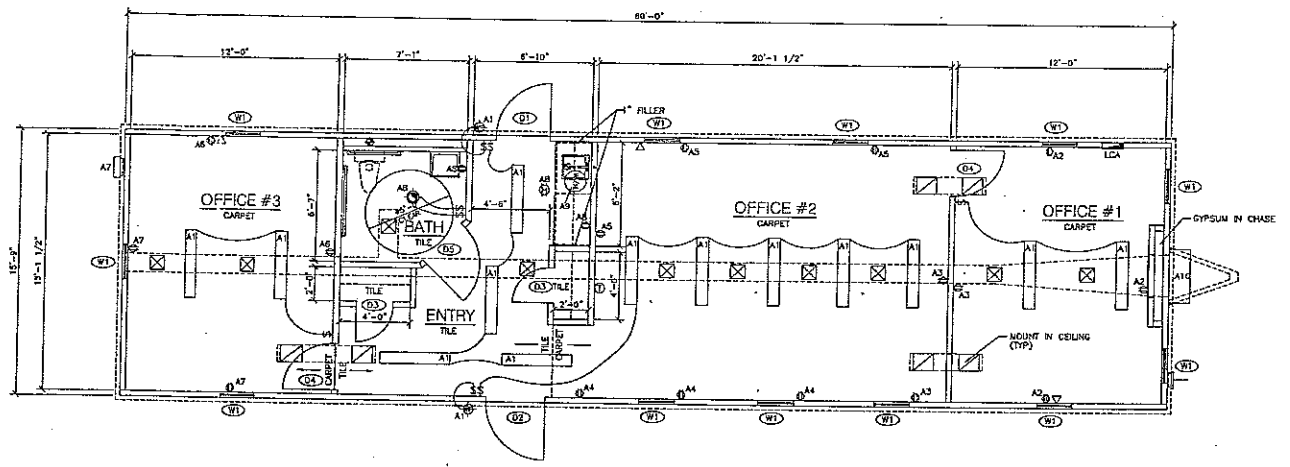
EXTERIOR WALLS:
STUDS: 2X4 16" O.C., STUD GRADE, 8' WALL HEIGHT (088C/80CA)
TOP PLATE: DOUBLE 2X4 #3 SPF
BOTTOM PLATE: SINGLE 2X4 #3 SPF
INSULATION: R-11 KRAFT BACKED FIBERGLASS
COVERING: 1/4" MGYL COVERED PANELING W/ BATTENS
COLOR: CHOOSE FROM MSC STANDARDS

EXTERIORS:
EXT. COVERING: 7/16" LP SMART-PANEL T1-11 SIDING 8" VERTICAL
COLOR: CHOOSE FROM MSC STANDARDS
EXT. TRIM: WOOD 1/4"
STAIN: SOLID STAIN OLYMPIC T1-11, 2 COATS
COLOR: CHOOSE FROM MSC STANDARDS

2x4 WALL HEADER DETAIL
SCALE: NTS



**LVL BEAM MAY BE SUBSTITUTED FOR
NORMAL LUMBER (SAME DIMENSIONS)



INTERIOR WALLS:
STUDS: 2X4 16" O.C., STUD GRADE SPF, 8' WALL HEIGHT (088C/80CA)
TOP PLATE: DOUBLE 2X4 #3 SPF
BOTTOM PLATE: SINGLE 2X4 #3 SPF
WALL FINISHING: WALL FINISHING AS REQUIRED
COVERING: 1/4" MGYL COVERED PANELING W/ BATTENS
COLOR: CHOOSE FROM MSC STANDARDS

ROOF:
ROOF FRAMING: 16" O.C. 40# LIVE LOAD (088C/80CA)
TRUSSES: COUPLER BEAM TRUSSES (16"X17"X15"X186") (976,774)
CEILING: 1/2" PREFERRED GYPSUM W/ JOINT ADHESIVE
INSULATION: R-30 KRAFT BACKED FIBERGLASS
ROOF SHEATHING: 7/16" OSB
ROOFING: 30 GAUGE GALV. STEEL
VENTS: GABLE VENTS, PER BLDG. CODE (SEE PLANS)

MANSARD 1 1/2" PROJECTION:
2" ROOF: 7/16" LP SMART-PANEL T1-11 4" O.C. W/ STANDARD MINI-GUTTER
MANSARD COLOR: CHOOSE FROM MSC STANDARDS
MINI-GUTTER: CHOOSE FROM MSC STANDARDS

WINDOWS: (CREATION OR EQUAL)
(1) 24"X36" VERTICAL SLIDER CLEAR GLASS, "MIL FINISH"
(2) 24"X36" 1" VINYL MINI-BLENDS, "ALABASTER"
(3) R.L.S. = 24"X36" 2.53 1/2" @ 27" 10" A.F.F.

EXTERIOR DOORS:
(1) 3'0"X7'8" STEEL/ALUMINUM WITH 10X10 (S.G.) LITE & SAFETY CHAIN
(1) PASSAGE LEVER SET
(1) DEAD BOLT LOCK
(3) R.L.S. = 37 1/4" X 1 1/2"

STOREFRONT GLASS DOOR:
(1) 3'0"X7'0" STORE FRONT (S.G.) GLASS DOOR W/ LOCK & CLOSURE FRAME COLOR: "MIL"
(1) LOCKS: STORE FRONT CYLINDER LOCKS
(1) MATERIAL: SNEEP DOOR SFT FOR GLASS DOOR
(3) R.L.S. = 40 1/2" X 3 1/2"

INTERIOR DOORS:
(2) 2'0"X6'8" REGAL OAK, HOLLOW CORE W/ PANEL JAMB
(2) STANDARD LEVER PASSAGESET
(3) R.L.S. = 38 3/4" X 81 1/2"

(2) 3'0"X6'8" REGAL OAK, HOLLOW CORE W/ PANEL JAMB
(2) STANDARD LEVER PASSAGESET
(3) R.L.S. = 38 3/4" X 81 1/2"

(1) 3'0"X6'8" REGAL OAK, HOLLOW CORE W/ PANEL JAMB
(1) STANDARD LEVER PRIVACY LOCKSET
(3) R.L.S. = 38 3/4" X 81 1/2"

ELECTRICAL:
(1) PANEL BOX, 200 AMP SINGLE PHASE W/ MAIN BREAKER
BACKUP: 200V, CONDENSED W/ #15 WIRE
(1) LIGHTS: 2 TUBE, 4 FLUORESCENT DIFFUSED
(2) LIGHTS: UPGRADE PORCH LIGHT WALL MOUNT (DEC-100)
(1) RECEPTACLE: 20 AMP, 120V DUPLEX RECEPTACLE (MAX. 3 BRACED PER CIRCUIT)
(2) RECEPTACLE: 20 AMP, 120V OF HEDEPT
(1) RECEPTACLE: 15 AMP, 120V RECEPT FOR HEAT TAPE
(6) SWITCH: 15A SINGLE POLE SWITCH
(3) PHONE: EMPTY 2X4 BOX W/ 1/2" EMT CONDUIT STUD THRU FLOOR

PLUMBING:
SUPPLY LINES: CPVC W/ CEMENTED FITTINGS
DRAIN LINES: SCHEDULE 40 PVC DRAIN WASTE & VENT (MULTIPLE DROPS)
(1) WATER HEATER: STANDARD & GAS ELECTRIC (SWITCHED)
(1) MATERIAL: WATER HEATER PAN
(1) MATERIAL: VACUUM RELIEF VALVE (6, 10, 20 GALLON ONLY)
(1) WATER CLOSET: PLUMBING ONLY / *VIOLET BY OTHERS ON SITE
(1) LAVATORY: 8" WALL HUNG LAVATORY W/ WHITE BLADE FAUCET
(1) CODE: TEMPERING VALVE
(1) CODE: INSULATE HOT SUPPLY & DRAIN BELOW LAVATORY
(1) SINK: 15" STAINLESS STEEL BAR SINK
(1) GRAB BAR: PAIR, ONE 36" & ONE 48"
(1) MIRROR: STANDARD 20"X40" WALL MOUNTED
(1) TOILET PAPER HOLDER

HEATING & AIR CONDITIONING:
(1) WALLMOUNT HVAC: 4 TON WITH 15 KW HEAT, WALL MOUNT
(1) THERMOSTAT: FOR STANDARD WALL MOUNT HVAC
(1) FAN: 100 CFM VENT FAN WITH LIGHT
HVAC DUCT: FIBERGLASS SUPPLY DUCT W/ ADJUSTABLE 10x10 DIFFUSERS
HVAC DUCT: FIBERGLASS RETURN DUCT (TRANSFER DUCT ONLY) W/ 14x12 RETURN AIR GRILLS
(1) GRILLS: 30"X18" RETURN AIR GRILL @ FLEXION WALL
FLEXION: FLEX WALL FOR A/C RETURN AIR (LINE INSIDE W/ GYPSUM)

FURNITURE AND ACCESSORIES:
(8) IF SHELF: (2) 4" CLOSET, PAINTED WIRE, 12" DEEP

MERILAT CABINETS:
(8) 17" BASE CABINETS: "NORTH PORT", COLOR: CHOOSE FROM STANDARDS
(8) 17" WALL CABINETS: "NORTH PORT" 30" HIGH, 12" DEEP, COLOR: CHOOSE FROM STANDARDS
(8) 17" 25" HPL COUNTER: W/ BACKPLASH, COLOR: "ALMOND"

INTERIOR TRIM:
6" MGYL DOME BASE AT BATHROOM
COLOR: CHOOSE FROM MSC STANDARDS
STANDARD WINDOW GARNISH
1 1/2" COLONIAL DOOR CASING (ALL DOORS)
1 1/2" COLONIAL CASING BASE TRIM
WOODGRAIN PANEL WINDOW & DOOR JAMBS
1" MGYL COVERED BATTENS EVERY 4" @ INSIDE CORNERS
VINYL COVERED OUTSIDE CORNERS TRI-MOLD @

SKIPPING:
*PROVIDED & INSTALLED @ SITE BY OTHERS

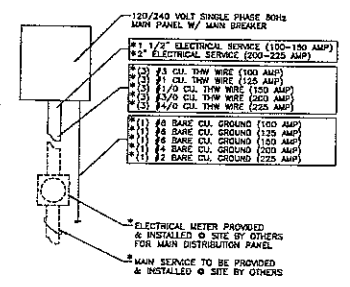
ENGINEERING:
(1) INDIANA MOBILE SEAL
(1) MICHIGAN SEAL
(1) OHIO SEAL
(1) THIRD PARTY LAB.

FIELD NOTES
INDICATES ITEMS TO BE
INSTALLED @ SITE BY OTHERS

DRAWING LEGEND
REFER TO SPECIFICATIONS FOR DETAILS

SYMBOL	DESCRIPTION
○	LOAD CENTER
○	CEILING MOUNTED FLUORESCENT LIGHT FEATURE
○	EXTERIOR WEATHERPROOF LIGHT FEATURE, MOUNTED @ 8'0" A.F.F. (UNLESS NOTED)
○	CEILING MOUNT EXHAUST FAN/LIGHT COMBO
○	TWIST TYPE SWITCH @ 48" A.F.F. (TO BOTTOM) (UNLESS NOTED)
○	DUPLEX RECEPTACLE @ 18" A.F.F. (TO BOTTOM) (UNLESS NOTED)
○	3P1 PROTECTED DUPLEX RECEPTACLE @ 42" A.F.F. (TO BOTTOM) (UNLESS NOTED)
○	HEAT TAPE RECEPTACLE LOCATED BELOW UNIT
○	J-BOX (2x4) FOR PHONE JACK @ 18" A.F.F. (TO BOTTOM) (UNLESS NOTED)
○	NORTH CEILING MOUNTED SUPPLY AIR EXHAUSTER W/ ADJUSTABLE AIR DAMPER
○	TANK TYPE ELECTRIC WATER HEATER
○	MANHOLE
○	WATER SUPPLY VALVE

NOTE:
1) HORSEPOWER AND/OR FULL LOAD AMPERE RATING VOLTAGE AND PHASE, SHALL BE REQUIRED FOR ALL MOTORS
2) ELECTRIC SERVICE ENTRANCE PER SECTIONS 230-3 & 230-70A, PROVIDED AND INSTALLED BY SITE CONTRACTOR
3) SITE CONTRACTOR MAY SUBSTITUTE WIRE TYPES IN CONFORMANCE W/ N.E.C. CODE.
4) THE MAIN DISTRIBUTION SHALL BE LOCATED ON OR IN A READILY ACCESSIBLE LOCATION ADJACENT TO THE STRUCTURE.
5) THE MAXIMUM NUMBERS OF DISCONNECTS AND GROUPING OF DISCONNECTS SHALL BE IN CONFORMANCE WITH SECTIONS 230-71 AND 230-72.
6) MAIN DISTRIBUTION PANEL SHALL BE SIZED A MINIMUM OF THE LOAD INDICATED ON THE ELECTRICAL LOAD CALCULATION.



ELECTRICAL RISER DIAGRAM
N.T.S.

DATE	REVISION

DATE	REVISION

Manufactured
STRUCTURES
CORPORATION

1684-1/2" X 60'-0"
15'-0" X 60'-0"

MANUFACTURED STRUCTURES CORP.
80310
2023-1
1/4"=1'-0"
DRAWN BY: JDC
DATE: 10/23/01
REVISION NO.: