1.08 APPLY PAINT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. DO NOT APPLY COATINGS TO SURFACES THAT ARE NOT DRY. APPLY EACH COAT TO UNIFORM THICKNESS AND FINISH, WITH EACH COAT SLIGHTLY DARKER THAN PRECEDING COAT. ALLOW EACH COAT TO DRY THOROUGHLY BEFORE APPLYING NEXT COAT. SAND WOOD AND METAL SURFACES LIGHTLY BETWEEN COATS. VACUUM SURFACES FREE OF LOOSE PARTICLES PRIOR TO APPLICATION OF NEXT COAT.

1.09 KEEP PROJECT PREMISES FREE OF PAINTING-RELATED DEBRIS. COLLECT MATERIAL THAT MAY CONSTITUTE A FIRE HAZARD, PLACE IN CLOSED METAL CONTAINERS, AND REMOVE DAILY FROM SITE

1.10 PROTECT WORK ADJACENT TO PAINTING OPERATIONS FROM PAINT SPATTERS AND SPILLS. IMMEDIATELY REMOVE PAINT THAT FALLS ON FINISHED SURFACES NOT SCHEDULED TO RECEIVE PAINT, USING MATERIALS AND TECHNIQUES THAT WILL NOT DAMAGE AFFECTED SURFACES

1.11 PAINT MATERIALS SHALL BE SHERWIN WILLIAMS OR EQUAL, COLORS TO BE SELECTED BY ARCHITECT

1.12 ADDITIONAL COATS SHALL BE APPLIED WHEN UNDERCOATS SHOW THROUGH FINAL COAT UNTIL PAINT FILM IS OF UNIFORM COLOR AND APPEARANCE.

1.13 PAINT SCHEDULE

A. EXTERIOR FERROUS MATERIAL

1ST COAT - METAL PRIMER, GALVANIZED METAL PRIMER OR SHOP PRIME COAT TOUCHUP
2ND COAT - ENAMEL, GLOSS ALKYD, OR WATER REDUCIBLE 100% ACRYLIC
3RD COAT - ENAMEL, GLOSS ALKYD, OR WATER REDUCIBLE 100% ACRYLIC

SURFACES INCLUDED:

HOLLOW METAL DOORS AND FRAMES, SURFACE OF LINTELS AND RELIEVING ANGLES VISIBLE AFTER COMPLETION OF THE MASONRY, STEEL BUMPER POSTS AND OTHER SITE STEEL, EXPOSED PIPING AND CONDUIT OUTSIDE OF BUILDING, ROOF TOP EQUIPMENT.

B. CONCRETE FLOORS

1ST COAT - CLEAR COATING OF FLOORS

FOR ALL FLOORS INDICATED OR SCHEDULED AS 'CONCRETE - SEALED'

C. INTERIOR METAL

1ST COAT - METAL PRIMER, GALVANIZED METAL PRIMER OR SHOP PRIME COAT TOUCHUP
2ND COAT - ENAMEL, SEMI-GLOSS OR EGGSHELL ALKYD
3RD COAT - ENAMEL, SEMI-GLOSS OR EGGSHELL ALKYD

SURFACES INCLUDED:

METAL DOORS AND FRAMES

1ST COAT - METAL PRIMER, GALVANIZED METAL PRIMER, OR SHOP PRIME TOUCHUP
2ND COAT - ENAMEL, GLOSS, ALKYD
3RD COAT - ENAMEL, GLOSS, ALKYD

SURFACES INCLUDED:

SHOP FABRICATED PLUMING, HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT, PIPING, DUCTS, HANGERS, AND SUPPORTS, AND HOUSING FOR HEATING AND VENTILATING UNITS ,CONDUITS, AND SHOP PRIMED ELECTRICAL EQUIPMENT AND DEVICES, AND OTHER MISCELLANEOUS PAINTABLE METAL SURFACES.

1ST COAT - METAL PRIMER, OR SHOP PRIME COAT TOUCHUP
2ND COAT - ENAMEL EGGSHELL
3RD COAT - ENAMEL EGGSHELL

SURFACES INCLUDED:

GRILLES, DIFFUSERS, SPRINKLER HEAD ESCUTCHEONS, ELECTRICAL FIXTURE TRIM, FACTORY COLORED CEILING.

1ST COAT - METAL PRIMER, OR SHOP PRIME TOUCHUP
2ND COAT - ENAMEL, GLOSS OR FLAT, ALKYD, DRY FALL PAINT
3RD COAT - ENAMEL, GLOSS OR FLAT, ALKYD, DRY FALL PAINT

SURFACES INCLUDED:

EXPOSED STEEL DECK, CEILING JOISTS AND BEAMS

D. EXTERIOR GYPSUM BOARD, EXPOSED WOOD SURFACES

1ST COAT - PRIMER AND SEALER
2ND COAT - EXTERIOR WALL PAINT, STAIN OR FLAT, LATEX
3RD COAT - EXTERIOR WALL PAINT, SATIN OR FLAT, LATEX

E. INTERIOR GYPSUM BOARD, WOOD, CONCRETE AND PLASTER SURFACES

1ST COAT - PRIMER AND SEALER, LATEX
2ND COAT - WALL PAINT, FLAT OR EGGSHELL, LATEX
3RD COAT - WALL PAINT, FLAT OR EGGSHELL, LATEX

F. INTERIOR CONCRETE MASONRY - SCHEDULED OR INDICATED AS 'ENAMEL'

1ST COAT - CONCRETE BLOCK PRIMER AND FILLER
2ND COAT - ENAMEL, SEMI-GLOSS, OR EGGSHELL, ALKYD
3RD COAT - ENAMEL, SEMI-GLOSS, OR EGGSHELL, ALKYD

G. INTERIOR CONCRETE MASONRY - SCHEDULED OR INDICATED AS 'PAINTED'

1ST COAT - CONCRETE BLOCK PRIMER AND FILLER
2ND COAT - WALL PAINT, FLAT OR EGGSHELL, LATEX
3RD COAT - WALL PAINT, FLAT OR EGGSHELL, LATEX

DIVISION TEN - SPECIALTIES

10155 - TOILET PARTITIONS

1.01 METAL TOILET COMPARTMENTS, FLOOR MOUNTED, HEAD RAIL BRACED, URINAL SCREENS, WALL MOUNTED TO COMPLY WITH ANSI A117.1 - SPECIFICATIONS FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PEOPLE ANSI/ASTM A424 - STEEL SHEETS FOR PORCELAIN ENAMELING. ANSI/ASTM A526 - STEEL SHEET, ZINC-COATED (GALVANIZED) BY THE HOT-DIP PROCESS COMMERCIAL QUALITY. FS RRP-P-1352 - PARTITIONS, TOILET, COMPLETE. CONFORM TO APPLICABLE CODE FOR BARRIER FREE ACCESS REQUIREMENTS.

1.02 MANUFACTURER: GENERAL PARTITION, MADRIAN, SANY METAL PARTITION COMPANY OR EQUAL

1.03 SHEET STEEL: ANSI/ASTM A526, WITH G90 ZINC COATING, HEAD RAILS: HOLLOW ALUMINUM TUBE, 1 ¼ I-5/8 INCH SIZE, WITH ANTI-GRIP STRIPS AND CAST SOCKET WALL BRACKETS

1.04 ATTACHMENTS, SCREWS, AND BOLTS: CHROME PLATED. TAMPER PROOF TYPE: HEAVY DUTY EXTRUDED ALUMINUM BRACKETS.

1.05 HARDWARE: CHROME PLATED NONFERROUS CAST PIVOT HINGES, GRAVITY TYPE, ADJUSTABLE FOR DOOR CLOSE POSITIONING. NYLON BEARINGS. THUMB TURN OR SLIDE DOOR LATCH. DOOR STRIKE AND KEEPER WITH RUBBER BUMPER. CAST ALLOY CHROME PLATED COAT HOOK AND BUMPER.

1.06 FABRICATE PARTITIONS IN ACCORDANCE WITH FS RR-P-1352. FABRICATE COMPONENTS OF STEEL SHEET AS FOLLOWS: PANEL AND DOOR FACES: 20 GAUGE. PILASTER FACES, 18 GAUGE REINFORCEMENT, 12 GAUGE

1.07 DOORS AND PANELS: ONE INCH THICK BY 24 INCH WIDE X 58 INCH HIGH, SHEET STEEL FACE, PRESSURE BONDED TO SOUND DEADENING CORE; 32 INCH WIDE DOOR, SWINGING OUT ON STALLS FOR HANDICAPPED USE.

1.08 PILASTERS: 1-1/4 INCH THICK, CONSTRUCTED SAME AS DOORS, OF SIZES REQUIRED TO SUIT CUBICLE WIDTH AND SPACING.

1.09 PILASTER SHOES: FORMED, ASTM A167 TYPE 300 STAINLESS STEEL WITH NO. 4 FINISH

1.10 DOORS, PANELS, AND PILASTERS: FORM AND CLOSE EDGES, MITER AND WELD CORNERS, GRIND SMOOTH

1.11 INTERNAL REINFORCEMENT: PROVIDE IN AREAS OF ATTACHED HARDWARE AND 10800. MARK LOCATIONS OF REINFORCEMENT FOR PARTITION MOUNTED WASHROOM FITTINGS INCLUDING PAPER DISPENSERS AND GRAB BARS AS INDICATED IN SECTION ACCESSORIES.

1.12 COORDINATE CUTTING AND REINFORCING OF PANELS AS REQUIRED FOR INSTALLATION OF CERTAIN THRU WALL ACCESSORIES AS SPECIFIED IN SECTION 10800. COORDINATE UNDER PROVISIONS OF SECTION 01039.

1.13 FACTORY FINISHING WITH A PHOSPHATIZING TREATMENT, PRIME COAT AND TWO FINISH COATS OF THERMOSETTING ACRYLIC BAKED ENAMEL OR POUDER COAT OF COLORS AS SELECTED BY ARCHITECT

1.14 VERIFY CORRECT SPACING OF PLUMBING FIXTURES. VERIFY CORRECT LOCATION OF BUILT-IN FRAMING ANCHORAGE, AND BRACING, WHERE REQUIRED.

1.15 INSTALL PARTITIONS SECURE, PLUMB, AND LEVEL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MAINTAIN 3/8 TO 1/2 INCH SPACE BETWEEN WALL AND PANELS AND BETWEEN WALL AND END PILASTERS ATTACH PANEL BRACKETS SECURELY TO WALLS USING ANCHOR DEVICES. ATTACH PANELS AND PILASTERS TO BRACKET WITH THROUGH SLEEVE TAMPERPROOF BOLTS AND NUTS. LOCATE HANDRAIL HEADRAIL JOINTS AT PILASTER CENTER LINES. INSTALL 30 INCH WIDE X 42 INCH HIGH STAINLESS STEEL PROTECTIVE SPLASH PANELS ON PARTITIONS ADJACENT TO URINALS, FASTEN WITH STAINLESS STEEL SCREWS SPACED 8 INCHES ON CENTER.

1.16 ANCHOR URINAL SCREEN PANELS TO WALLS WITH THREE PANEL BRACKETS.

1.17 PROVIDE ADJUSTMENT FOR FLOOR VARIATIONS WITH SCREW JACK THROUGH STEEL SADDLES INTEGRAL WITH PILASTER. CONCEAL FLOOR FASTENINGS WITH PILASTER SHOES.

1.18 EQUIP EACH DOOR WITH TWO HINGES, ONE DOOR LATCH, AND ONE COAT HOOK, AND BUMPER. INSTALL DOOR STRIKE AND KEEPER WITH DOOR BUMPER ON EACH PILASTER IN ALIGNMENT WITH DOOR LATCH ADJUST HINGES TO LOCATE DOORS IN PARTIAL OPENING POSITION WHEN UNLATCHED, RETURN OUT-SWING DOORS TO CLOSE POSITION.

1.19 ADJUST, LUBRICATE AND ALIGN HARDWARE TO UNIFORM CLEARANCE AT VERTICAL EDGES OF DOORS NOT EXCEEDING 3/16 INCH. ADJUST HINGES TO RETURN DOORS TO FULLY CLOSED POSITIONS. REPLACE ANY FINAL ADJUSTMENTS TO PILASTER LEVELING DEVICES, DOOR HARDWARE AND OTHER OPERATING PARTS OF THE PARTITION ASSEMBLY JUST PRIOR TO FINAL INSPECTION.

10400 - SIGNAGE

1.01 SIGNAGE TO HAVE RAISED CHARACTERS, BY-LAWS, AND/OR BRAILLE AS REQUIRED TO COMPLY WITH MICHIGAN BARRIER FREE, ADA, AND LOCAL CODES.

1.02 PROVIDE INTERIOR SIGNAGE AT TOILET ROOMS, ETC. AS NEEDED FOR MICHIGAN BARRIER FREE AND ADA REQUIREMENTS.

1.03 INSTALL PER MANUFACTURE'S RECOMMENDATIONS, MOUNTING HEIGHTS PER MICHIGAN BARRIER FREE AND ADA REQUIREMENTS

10650 - FOLDING PANEL PARTITIONS

1.01 FURNISH ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF SLIDING PANEL ACOUSTIC PARTITION, INDIVIDUAL PANELS, MANUAL OPERATION, CEILING TRACK, GUARDS AND OPERATING HARDWARE, AND FIELD APPLIED SURFACE FINISH.

1.02 ASTM E90-1 - ARCHITECTURAL APPLICATION AND INSTALLATION OF OPERABLE PARTITIONS

1.03 SOUND TRANSMISSION COEFFICIENT (STC): ASTM E90, STC OF 48, TESTED ON PANEL SIZE OF 100 SQ. FT.

1.04 SURFACE BURNING OF VINYL FABRIC FINISH: ASTM E84: FLAME/FUEL/SMOKE RATING OF 25 / 35 / 50

1.05 INSTALL PARTITION SYSTEM TRACK CAPABLE OF SUPPORTING IMPOSED LOADS, WITH MAXIMUM DEFLECTION OF 1/360 OF SPAN.

1.06 CONFORM TO APPLICABLE CODE FOR COMBUSTIBILITY REQUIREMENTS FOR MATERIALS

1.07 FOLDING PANEL PARTITION AS MANUFACTURED BY HUFCOR PATHFINDER 5000, MODERNFOLD SPACESETTER 200 SERIES, OR EQUAL APPROVED BY ARHCITECT

1.08 FACING: CONSTRUCTION UTILIZING MANUFACTURER'S STANDARDS, CORE: CONSTRUCTION UTILIZING MANUFACTURER'S STANDARD FABRICATION METHODS, THICKNESS: 3 INCHES (NOMINAL)

1.09 VINYL COATED FABRIC FINISH: FS CCC-W-408, TYPE II - MEDIUM, CLASS 2 - MILDEW RESISTANT; FOR WASHABILITY AND FLAME RETARDANCE+ COLOR AS SELECTED BY ARCHITECT.

1.10 INSTALL TRACK MEETING TOLERANCE REQUIRED BY MANUFACTURER. INSTALL PANELS AND MISCELLANEOUS JAMB ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FIT AND ALIGN PARTITION ASSEMBLY LEVEL AND PLUMB. EXPANDING NOSE ENGAGING JAMB FOR EXPANDABLE PANEL

1.11 ADJUST PARTITION ASSEMBLY TO PROVIDE SMOOTH OPERATION FROM STACKED TO DRAWN POSITION.

10810 - TOILET ACCESSORIES

1.01 WORK IN THIS SECTION CONSISTS OF FURNISHING ALL TOILET ROOM ACCESSORIES AS SHOWN ON THE THE DRAWINGS AND AS HEREIN SPECIFIED.

1.02 PROVIDE PRODUCTS OF THE SAME MANUFACTURER FOR EACH TYPE OF ACCESSORY UNIT AND FOR UNITS EXPOSED IN THE SAME AREAS, WHEREVER POSSIBLE. COORDINATE WITH THE ARCHITECT FOR ACCEPTABLE DESIGNS

1.03 STAMPED NAMES OR LABELS ON EXPOSED FACES OF UNITS WILL NOT BE PERMITTED, EXCEPT WHERE OTHERWISE SPECIFIED.

1.04 MANUFACTURER: FOR PURPOSES OF QUALITY, APPEARANCE, STYLE, DETAIL, SPECIFICATION OF VARIOUS ACCESSORIES ARE BASED ON PRODUCTS OF BRADLEY CORPORATION INC. WHICH SHALL ESTABLISH REQUIREMENTS.

1.05 PROVIDE GRAB BARS WHERE SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED. TWO (2) AT EACH TOILET STALL WITH 2'-8" DOOR OR INDICATED AS 'HANDICAPPED TOILET' OR 'PH' NON-SLIP GRIPPING SURFACE. PEENED, KNURLED OR STRIATED. MANUFACTURER'S STANDARD SIZE. LENGTH AS SHOWN ON DRAWINGS 1-1/2" O.D., WITH WALL THICKNESS NOT LESS THAN Ø.062; FABRICATE STAINLESS STEEL GRAB BARS AS FOLLOWS: MOUNTING-CONCEALED, WITH MANUFACTURER'S STANDARD FLANGES AND ANCHORAGES FOR TYPE INSTALLATION AT HEIGHTS AND LOCATIONS SHOWN ON DRAWINGS. CARE SHALL BE TAKEN TO CORRELATE WITH OTHER TRADES AND PROVIDE NECESSARY IN-WALL FRAMING OR ANCHORAGE. GRAB BARS SHALL BE MOUNTED TO SUSTAIN MINIMUM 300 LB. PULL.

1.06 TOILET ROOM ACCESSORIES FURNISHED AND INSTALLED IN EACH TOILET ROOM/WASHROOM VESTIBULE INDICATED ON DRAWINGS INCLUDE THE FOLLOWING:

A TOWEL DISPENSER / WASTE RECEPTACLE: MODEL 237-10 - SEMI RECESSED
B. NAPKIN DISPOSAL: MODEL 4721-9 - TWO COMPARTMENT
MODEL 4722-10-9 - SEMI RECESSED - WALL END COMPARTMENT
MODEL 4722-9 - SURFACE MOUNTED - END COMPARTMENT (WHERE REQUIRED)
C. TOILET TISSUE DISPENSER: MODEL 5422 - TWO COMPARTMENT
MODEL 5412 - WALL END COMPARTMENT
MODEL 5402 - END COMPARTMENT (WHERE REQUIRED)
D. SEAT COVER DISPENSER: MODEL 583I SURFACE MOUNTED
E. NAPKIN/TAMPON VENDOR: MODEL 426 - SURFACE MOUNTED (VERIFY COIN OPERATION W/ OWNER)
F. SOAP DISPENSER: MODEL 6334 - COUNTER MOUNTED
MODEL 6542 - WALL SURFACE MOUNTED
G. MIRROR: MODEL 781 (SIZE APPROPRIATE TO COUNTER)
MODEL 782 (SIZE APPROPRIATE TO COUNTER - WHERE REQUIRED TO MEET M.B.F.)
H. GRAB BAR: MODEL 812 (SIZE AS REQUIRED TO MEET M.B.F.)
I. HAT AND COAT HOOK: MODEL 9134
J. SHOWER CURTAIN ROD: MODEL 9539 (WHERE NOT PROVIDED BY SHOWER MANUF.)
K. MOP AND BROOM HOLDER: MODEL 9953

1.07 ALL ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS TO PROVIDE 'BEST' WORKMANSHIP AND SECURE FASTENING, LOCATED WHERE SHOWN ON DRAWINGS AND AS HEREIN SPECIFIED.

DIVISION ELEVEN - EQUIPMENT

11132 - PROJECTION SCREENS

1.01 COORDINATE LAYOUT AND INSTALLATION OF PROJECTION SCREEN WITH CEILING CONSTRUCTION.

1.02 PROJECTION SCREEN TO MANUFACTURED FROM MILDEW AND FLAME RESISTANT FABRIC WITH A VIEWING SURFACE GLASS BEADED, MATTE WHITE, VIDEO SPECTRA 1.5 OR HIGHER WITH BLACK MASKING BORDER

1.03 SCREEN TO BE ELECTRICALLY OPERATED, 120V WITH QUICK REVERSE MOTOR. PRESET ADJUSTABLE SWITCHES TO AUTOMATICALLY STOP THE PICTURE SURFACE IN THE 'UP' AND 'DOWN' POSITION. STOP TO BE POSITIVE TO PREVENT COASTING.

1.04 UNIT SHALL BE CEILING MOUNTED. A SECTION OF THE BOTTOM OF THE CASE SHALL BE A DOOR EQUIPPED WITH HINGES SO THAT IT OPENS AND CLOSES AUTOMATICALLY WHEN THE SCREEN IS RAISED AND LOWERED.

1.05 SCREEN TO BE LISTED WITH UNDERWRITER'S LABORATORY AND CSA.

1.06 INSTALL PROJECTION SCREEN WHERE INDICATED, SECURELY ANCHORED TO SUPPORTING SUBSTRATE IN A MANNER THAT PRODUCES A SMOOTHLY OPERATING SCREEN WITH VERTICAL EDGES PLUMB AND THE VIEWING SURFACE FLAT WHEN THE SCREEN IS LOWERED.

DIVISION TWELVE - FURNISHINGS

NO WORK IN THIS SECTION

DIVISION THIRTEEN - SPECIAL CONSTRUCTION

NO WORK IN THIS SECTION

DIVISION FOURTEEN - CONVEYING SYSTEMS

NO WORK IN THIS SECTION

DIVISION FIFTEEN

15450 -PLUMPING AND PIPING

1.01 CONTRACTOR TO PROVIDE A COMPLETE DESIGN/ BUILD SYSTEM, INCLUDING SYSTEM ENGINEERING AND SHOP DRAWINGS AS REQUIRED BY LOCAL MUNICIPALITY FOR OBTAINING PERMIT TO COMPLETE THE WORK INDICATED. CONTRACTO SHALL EMPLOY THE SERVICES OF A ENGINEER LICENSED IN THE STATE OF MICHIGAN.

1.02 ALL HOT AND COLD WATER PIPING SHALL BE INSULATED.

1.03 ALL SYSTEMS ARE TO BE COMPLETE AND FUNCTIONAL.

1.04 SYSTEM AND SHOP DRAWINGS TO BE APPROVED BY ARCHITECT PRIOR TO START OF WORK

1.06 DESIGN BASIS ON THE FOLLOWING TYPE AND QUALITY LEVEL OF FIXTURES

WATER CLOSET - HIGHLINE K-3544
LAVATORY - PENNINGTON K-2785
URINAL - BARDON K-4364D-T
FLUSH VALVE - SLOAN ROYAL 186-11
WATER HEATER - 75 GAL. ELECTRIC

15800 HVAC SYSTEMS

1.01 CONTRACTOR TO PROVIDE A COMPLETE DESIGN/ BUILD SYSTEM, INCLUDING SYSTEM ENGINEERING AND SHOP DRAWINGS AS REQUIRED BY LOCAL MUNICIPALITY FOR OBTAINING PERMIT TO COMPLETE THE WORK INDICATED. CONTRACTOR SHALL EMPLOY THE SERVICES OF A ENGINEER LICENSED IN THE STATE OF MICHIGAN.

1.02 HVAC DESIGN TEMPERATURES

SUMMER
INDOOR - 75° F.D.B. 63° F.W.B. 50% R.H.
OUTDOOR - 95° F.D.B. 74° F.W.B. 50% R.H.

WINTER
INDOOR - 72° F.D.B. 50% R.H.
OUTDOOR - 10° F.D.B.

1.03 ADJUST EXISTING SYSTEM AS REQUIRED FOR COMPLETE WORKING SYSTEM

1.04 PROVIDE SYSTEM SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO START OF WORK.

SECTION 15300 - FIRE PROTECTION SYSTEMS

1.01 THE AUTOMATIC SPRINKLER SYSTEM AND STANDPIPE SYSTEM SHALL SHALL BE DESIGNED, AND INSTALLED AS A COMPLETE SYSTEM BY THE AUTOMATIC SPRINKLER SYSTEM CONTRACTOR TO MEET ALL PROVISIONS OF NFPA STANDARDS, THE FIRE RATING BUREAU AND THE LOCAL GOVERNING MUNICIPALITY. ALL WORK SHALL COMPLY WITH NATIONAL STATE AND LOCAL CODES ORDINANCES AND REGULATIONS.

1.02 THE CONTRACTOR SHALL HYDRAULICALLY CALCULATE THE SPRINKLER AND STANDPIPE SYSTEM AND SHALL SUBMIT SHOP DRAWINGS SHOWING PIPING LAYOUT AND PROPOSED SPRINKLER HEAD LAYOUTS TO THE LOCAL GOVERNING MUNICIPALITY FIRE MARSHAL, THE OWNER'S INSURING AGENCY AND THE ARCHITECT.

1.03 COORDINATE PIPE ROUTING WITH STRUCTURAL STEEL AND OTHER TRADES. MAINTAIN CLEARANCES REQUIRED FOR PROPER INSTALLATION OF FINISHED CEILING AND SUPPORT SYSTEM. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, HVAC PLAN AND LIGHTING PLAN. LOCATE SPRINKLER HEAD AT CENTER OF CEILING TILES OR THE CENTER OF CEILING TILE PATTERN, WHICHEVER IS SMALLER. ARCHITECT'S APPROVAL REQUIRED FOR ALL PROPOSED SPRINKLER HEAD LOCATIONS.

1.04 SPRINKLE HEADS SHALL BE UL. LISTED, PENDANT, UPRIGHT AND SIDEWALK TYPE AS REQUIRED. HEADS IN FINISHED AREAS SHALL BE CHROME PLATED. SEMI RECESSED WITH CHROME PLATED ESCUTCHEONS. HEADS LOCATED IN LOBBIES, VESTIBULES, ENTRIES, WAITING, CONFERENCE, BOARD ROOMS, EXECUTIVE OFFICES AND SIMILAR ROOMS HAVING HARD CEILINGS SHALL BE CONCEALED TYPE SPRINKLER HEADS. HEADS INSTALLED IN RECEIVING ROOMS AND OTHER AREAS THAT MAY RECEIVE DAMAGE SHALL BE PROVIDED WITH APPROVED GUARDS. PROVIDE A STOCK OF SPARE SPRINKLER HEADS IN ACCORDANCE WITH NFPA STANDARDS.

1.05 PROVIDE ADJUSTABLE HANGERS AS REQUIRED FOR PROPER SUPPORT OF THE SYSTEM IN ACCORDANCE WITH NFPA STANDARDS. HANGERS SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPE LINES.

1.06 PROVIDE ALL NECESSARY ALARM BELLS, FLOW SWITCHES AND VALVES. COORDINATE INTERLOCKING WIRING WITH ELECTRICAL CONTRACTOR.

DIVISION SIXTEEN

16100 - ELECTRICAL

1.01 CONTRACTOR TO PROVIDE A COMPLETE DESIGN/ BUILD SYSTEM, INCLUDING SYSTEM ENGINEERING AND SHOP DRAWINGS AS REQUIRED BY LOCAL MUNICIPALITY FOR OBTAINING PERMIT TO COMPLETE THE WORK INDICATED. CONTRACTOR SHALL EMPLOY THE SERVICES OF A ENGINEER LICENSED IN THE STATE OF MICHIGAN.

1.02 COMPLY WITH NEC, AND ALL APPLICABLE CODES AND REGULATIONS

1.03 PROVIDE A COMPLETE AND OPERABLE POWER AND DISTRIBUTION SYSTEM TO INCLUDE CONDUIT, LIGHTING PANELS, SWITCHGEAR AND CABLE WORK.

1.04 ALL MATERIALS TO BE NEW AND COMPLY WITH LOCAL UTILITY COMPANY STANDARDS

1.05 PROVIDE CIRCUITS AS INDICATED ON DRAWINGS AND AS REQUIRED BY CODE.

1.06 PROVIDE POWER CIRCUITS TO HVAC EQUIPMENT AS REQUIRED.

1.07 PROVIDE SYSTEM SHOP DRAWING TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.

16400 - LIGHTING

1.01 GENERAL AREA LIGHT FIXTURES TO BE 2' X 4' RECESSED 3 TUBE 32 WATT T8 LENSE TO MATCH EXISTING BUILDING STANDARD

1.02 PROVIDE EMERGENCY AND EXIT LIGHTING WITH BATTERY BACK UP REQUIRED BY CODE.

16700 - TELEPHONE AND DATA SYSTEMS.

1.01 PROVIDE EMPTY CONDUITS AND JUNCTION BOXES IN SIZES INDICATED ON DRAWINGS FOR TELEPHONE AND DATA CABLING PROVIDED BY OTHERS.

1.02 VERIFY CONDUIT AND JUNCTION BOX REQUIREMENTS WITH TENANT PRIOR TO START OF WORK.

EQUITIES GROUP

ISSUED FOR	DATE
PERMIT	03/22/08

OAKLAND UNIVERSITY NURSING SCHOOL

RIVERVIEW CAMPUS

DETROIT MICHIGAN

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APPROVED .

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