### ALL ACCESSIBLE SPORTS COMPIEX AND PARK AT FOREST ROSE SCHOOL

795 COLLEGE AVE. LANCASTER, OH 43130

palladino

### DRAWING INDEX **COVER SHEET** $\triangle$ ADA TYPICAL ADA COMPLIANT **DETAILS** A0.1 EXISTING SITE SURVEY **GN.3 GENERAL NOTES GN.4 GENERAL NOTES** C0.1 CIVIL COVER SHEET CIVIL GENERAL NOTES **△ GN.5 GENERAL NOTES** SITE DIMENSION & SITE **△ GN.6 GENERAL NOTES UTILITY PLAN GN.7 GENERAL NOTES** C0.4 STORM SEWERS, GRADING, **GN.8 GENERAL NOTES** & SWP3 PLAN **GN.9 GENERAL NOTES** C0.5 STORM SEWER PROFILES **GN.10 GENERAL NOTES** & DETAILS **GN.11 GENERAL NOTES GN.12 GENERAL NOTES** △ A0.3 BALL FIELD LAYOUT PLAN **GN.13 GENERAL NOTES** A0.4 SITE UTILIZATION PLAN △ P1.0 PLUMBING PLAN A1.1 FOUNDATION PLAN & DETAILS △ P2.0 PLUMBING DETAILS △ P3.0 PLUMBING STACK/RISER A1.2 ROOF FRAMING PLAN TYPICAL STRUCTURAL DETAILS P4.0 PLUMBING SPECS A1.4 STRUCTURAL SPECS P4.1 PLUMBING SPECS A1.5 STRUCTURAL SPECS △ H1.0 HVAC PLAN △ A2.1 CONCESSIONS / RESTROOM △ E1.0 LIGHTING & ELECTRICAL PLAN △ E2.0 ELECTRICAL DETAILS **BUILDING FLOOR PLAN** △ A2.2 INTERIOR ELEVATIONS, **△** E3.0 ELECTRICAL SPECS **EQUIPMENT PLAN & DETAILS** SL1 SITE LIGHTING PLAN A2.3 DUGOUT PLANS / SECTIONS / SL2 SITE LIGHTING DETAILS **ELEVATIONS** SL3 SITE LIGHTING PHOTOMETRICS A3.1 EXTERIOR ELEVATIONS **BUILDING SECTIONS** △ A4.2 WALL SECTIONS

426 E. MAIN STREET, LANCASTER, OHIO 43130

SEPARATED BY 83'.

luchtenberg PHONE: (740) 654-4048

PROJECT DESCRIPTION / OBC INFORMATION THE PROPOSED PROJECT IS LOCATED ON THE SITE OF THE EXISTING FOREST ROSE SCHOOL FOR DEVELOPMENTALLY DISABLED CHILDREN. THE OWNER OF THE FACILITY IS 9. OCCUPANT LOAD PORTABLE BLEACHERS THE FAIRFIELD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES. THE PROJECT 200 SEATING CAPACITY CONSISTS OF A NEW BASEBALL DIAMOND WITH PORTABLE BLEACHERS, A NEW ACCESSORY CONCESSIONS AND RESTROOM BUILDING WITH A NEW COVERED OUTDOOR CONCESSIONS BUILDING 899 NSE 9 9 9 PAVILION DINING PATIO, AND THE EXPANSION OF AN EXISTING ASPHALT PARKING LOT. RESTROOMS BUILDING 598 NSF NA 'B'
OUTDOOR DINING AREA 1,200 SF 60 'A-5' THE EXCLUSIVE PURPOSE OF THE FACILITY WILL BE TO PROVIDE A RECREATIONAL AND COMPETITIVE SPORTS FACILITY FOR USE BY THOSE WITH DEVELOPMENTAL DISABILITIES. TOTAL SITE OCCUPANCY 2. SITE UTILITIES: IO. OBC 2902.I REQUIRED PLUMBING FIXTURES (BASED ON TOTAL SITE A-5 OCCUPANCY): 2.I. WATER, SANITARY AND ELECTRICAL UTILITIES FOR THE BUILDING WILL TAP INTO CITY TOILETS/URINALS LAYS DRINKING FOUNTAINS SERVICE SINK UTILITIES AT THE PERIMETER OF THE SITE. I TOTAL 2.2. STORM WATER WILL BE TEMPORARILY RETAINED ON SITE PER CITY CODES, AFTER WHICH IT WILL BE RELEASED INTO FETTER'S RUN STREAM AT THE PROPERTY'S EAST SEE STRUCTURAL SPECIFICATIONS FOR OBC REQUIRED STRUCTURAL DESIGN CRITERIA. 3. THE PROPOSED BALL DIAMOND WILL HAVE THREE PORTABLE BLEACHER STRUCTURES 12. THS FACILITY WILL COMPLY WITH THE REQUIREMENTS OF THE 2017 OHIO BUILDING CODE WITH A TOTAL OCCUPANCY LOAD OF 200. THE LATEST EDITION OF THE OHIO PLUMBING CODE, THE OHIO MECHANICAL CODE, THE NATIONAL ELECTRIC CODE AND ANY OTHER LOCAL CODES HAVING JURISDICTION. 4. THE BALL DIAMOND WILL HAVE TWO TEAM DUGOUTS WITH AN ANTICIPATED MAXIMUM COMBINED TOTAL OCCUPANCY LOAD OF 30. THE PROPOSED ACCESSORY BUILDING IS A NON-SPRINKLERED, SLAB ON GRADE, ONE STORY, MASONRY BUILDING WITH A WOOD FRAMED ROOF. 5.1. INTERIOR BUILDING AREA = 1,701 SF (CONCESSIONS 1,008 SF; RESTROOMS - 643 SF) 5.2. OUTDOOR PAVILION AREA = 3,037 SF (DINING AREA - 1,200 SF) 5.3. TOTAL AREA UNDER ROOF = 4,738 SF ······ THE PROPOSED ACCESSORY BUILDING CONSTRUCTION TYPE IS 3B CONSTRUCTION. 1. THE PROPOSED ACCESSORY BUILDING HEIGHT IS 26' FROM FINISH GRADE TO ROOF PEAK. 8. THE PROPOSED ACCESSORY BUILDING AND THE EXISTING SCHOOL BUILDING WILL BE

VICINITY MAP
COONPATH RD /
RAINBOW DR.
FISHER CATHOLIC HIGH SCHOOL  PROJECT SITE (FOREST ROSE SCHOOL)  FIELD  COLLEGE AVE.
OUL BRANCH CAMPUS  LANCASTER HIGH SCHOOL
RISING PARK  FAIRGROUNDS  RISING PARK
FAIR AVE.  6TH AVE.  MAIN ST./SR 22  LANCASTER

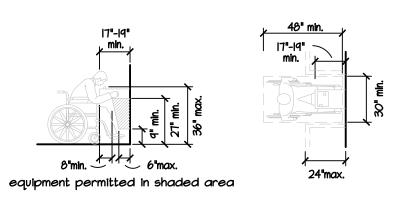
SYMBOLS						
104 ROOM NUMBER	DWG #	DRAWING TITLE				
DRAWINGS A, B AND C ON SHEET A5.I ARE ELEVATIONS OF CORRESPONDING WALLS IN ROOM 139	SHT # S	EXISTING MASONRY WALLS TO REMAIN ARE SHOWN WITH HATCH AND SOLID EDGE LINES. EXISTING				
DOOR NUMBER  REVISION #3 WORK IS		MASONRY WALLS TO BE REMOVED ARE SHOWN WITH HATCH AND DOTTED EDGE LINES. AT LOWER LEVEL MASONRY WALLS THAT ARE SHOWN DOTTED, REMOVE MASONRY DOWN TO 8" BELOW TOP OF FINISH SLAB UNLESS NOTED OTHERWISE.				
3 ( ILLUSTRATED WITHIN		EXISTING DRYWALL PARTITION TO BE REMOVED				
CLOUDED AREA		EXISTING DRYWALL PARTITION TO REMAIN				
EL. 100'-0" EXISTING ELEVATION		NEW DRYWALL PARTITION AS SCHEDULED				
DATUM LINE	7////////	NEW MASONRY WALL AS SCHEDULED				
EL. IIO'-O" NEW ELEVATION  DATUM LINE		TWO HOUR FIRE BARRIER WALL AS SCHEDULED				
TO DATON LINE		ONE HOUR FIRE BARRIER WALL AS SCHEDULED				
BUILDING OR WALL SECTION  A2.I DRAWING # 3 ON SHEET A2.I		NEW DOOR, FRAME AND HARDWARE IOIA AS SCHEDULED				
6 A2.4 PLAN DETAIL # 6 ON SHEET A2.4		EXISTING DOOR, FRAME AND / OR HARDWARE 133B TO BE REVISED AS SCHEDULED				
5 CODED NOTE SYMBOL		EXISTING DOOR, FRAME AND HARDWARE: - TO BE REMOVED IF SHOWN DOTTED - TO REMAIN AS IS IF SHOWN SOLID				
ARROW INDICATES REFERENCED NORTH		IN GENERAL, ALL ITEMS SHOWN WITH SOLID LINES ARE TO REMAIN, ALL ITEMS SHOWN WITH DOTTED LINES ARE TO BE REMOVED UNLESS OTHERWISE NOTED.				

	1	
ISSUE	MARK	DATE
PERMIT		4-5-21
ADDENDUM I		4-28-21
ADDENDUM 2	2	5-7-21
VPL F		4 -
		ECT#
L-		18
L-	20 OF STEPHEN CHTENBE	18

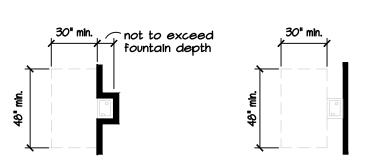
FAX: (740) 654-3009

CONTROLS - UNIT CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE.

SPOUT HIEGHT - SPOUT SHALL BE NO HIGHER THAN 36" MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.



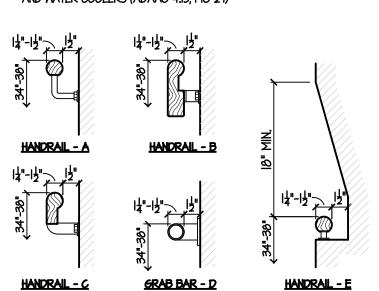
Spout Height and Knee Clearance Clear Floor Space



Built-in Fountain or Cooler Free Standing Fountain or Cooler

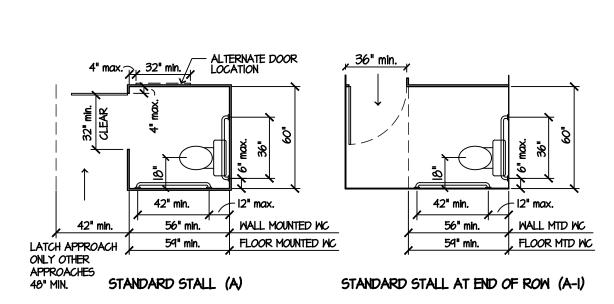
### **WATER COOLERS**

ACCEPTABLE CONFIGURATIONS FOR DRINKING FOUNTAINS AND WATER COOLERS (ADAAG 4.15, FIG 27)



**HANDRAILS** 

SIZE AND SPACING OF HANDRAILS AND GRAB BARS (ADAAG 4.26.2 FIG. 39)



42" min. 42" min. WALL MTD WC | 12" max. 66" min. FLOOR MTD WC 69" min. LATCH APPROACH ONLY OTHER APPROACHES

ALTERNATE STALL (B) ALTERNATE STALL (C)

42" min.

FRONT APPROACH

REAR WALL STD STALL SIDE WALL STD STALL

### **ADA TOILET STALLS**

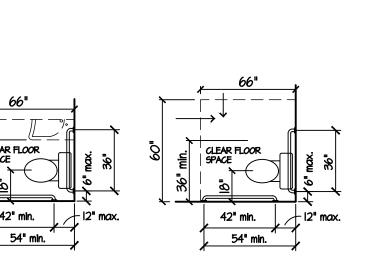
CLEAR FLOOR

42" min.

54" min. "

SIDE APPROACH

ONE STANDARD STALL SHALL BE PROVIDED WHERE 6 OR MORE STALLS ARE REQD. ALTERNATE STALLS MAY BE PROVIDED AFTER THE REQD STANDARD HANDICAP STALLS HAVE BEEN PROVIDED.



### SIDE MOUNTING ADA WATER CLOSETS IN SINGLE USE BATHROOMS



WITH THE UNIVERSAL PARKING DESIGN. "VAN ACCESSIBLE" SIGN IS NEEDED



- 12"x6" 18 GALVANIZED PAINTED STEEL SIGN - 12"x6" 18 GALVANIZED TO ALERT VAN USERS TO THE PRE-PAINTED STEEL SIGN

- 12"x18" 18 GALVANIZED

⇒) LOBBY

PROTECT SHADED

AREA FROM CROSS

PAINTED STEEL SIGN

### HANDICAP PARKING SIGN

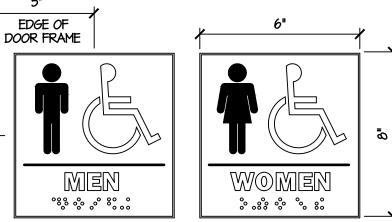
TYPICAL HANDICAP PARKING SIGN (ADAAG 4.6)



PROPORTIONS DISPLAY CONDITIONS INTERNATIONAL SYMBOL OF ACCESSIBILITY INTERNATIONAL SYMBOL OF ACCESSIBILITY

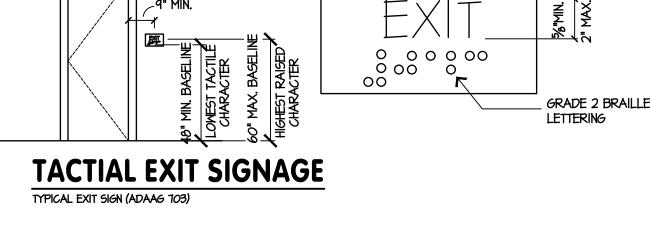
### HANDICAP SYMBOLS

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ADAAG 4.30.7, FIG. 4.3)



I 1/2" HIGH WHITE LETTERING ON DARK BLUE BACKGROUND DARK BLUE PLASTIC (FIELD) BACKGROUND WITH WHITE RAISED OR DEPRESSED EMBLEMS (NOTE- EMBLEMS AND LETTERING MUST BE RAISED OR DEPRESSED MIN. I/16 TYPICAL) PROVIDE (I) SIGN TOILET COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY. MOUNT 5'-O" TO CENTERLINE A.F.F.

### SIGN SIZE 6"x8" COLOR DARK BLUE WITH WHITE CHARACTERS. HANDICAP SIGN DETAILS



REQ'D MIN., ANY

THIS OVERHANG CAN BE

GREATER THAN 12" IF ON

ONE CAN APPROACH THE

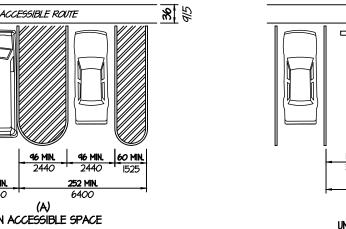
OBJECT FROM THIS DIRECTION

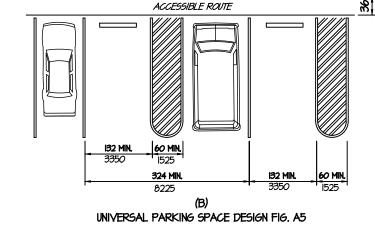
MALKING PARALLEL TO WALL - A

OVERHEAD HAZARDS - C

PROTRUDING OBJECTS (ADAAG 4.4 FIG. 8)

**PROTRUDING OBJECTS** 





NOTE: THIS SHEET IS A GENERAL INFORMATION

CERTAIN DETAILS ON THIS SHEET MAY NOT BE

SHEET FOR HANDICAP REQUIREMENTS.

<u>HIGH FORWARD REACH LIMIT - (A)</u>

CLEAR FLOOR SPACE

PARALLEL APPROACH - (A)

**REACH LIMITS** 

(ADAAG 4.2.5 AND 4.2.6 FIG. 4 AND 5)

REACH REQUIREMENTS FOR FORWARD AND SIDE APPROACH

HIGH AND LOW SIDE

REACH LIMITS - (B)

PERTINENT TO THIS PROJECT.

GREATER THAN 12

GREATER THAN 12"

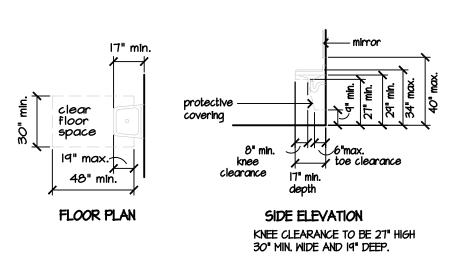
FREE - STANDING OVERHANG OBJECT - E

**ELEVATION** 

OBJECTS MOUNTED ON POST OR PYLONS - D

**ELEVATION** 

### PARKING SPACE ALTERNATIVES HANDICAP PARKING



### **ADA LAVATORIES** FAUCETS TO BE LEVER TYPE OR PUSH

### **ADA URINAL** PROVIDE 30"x48" FLOOR SPACE

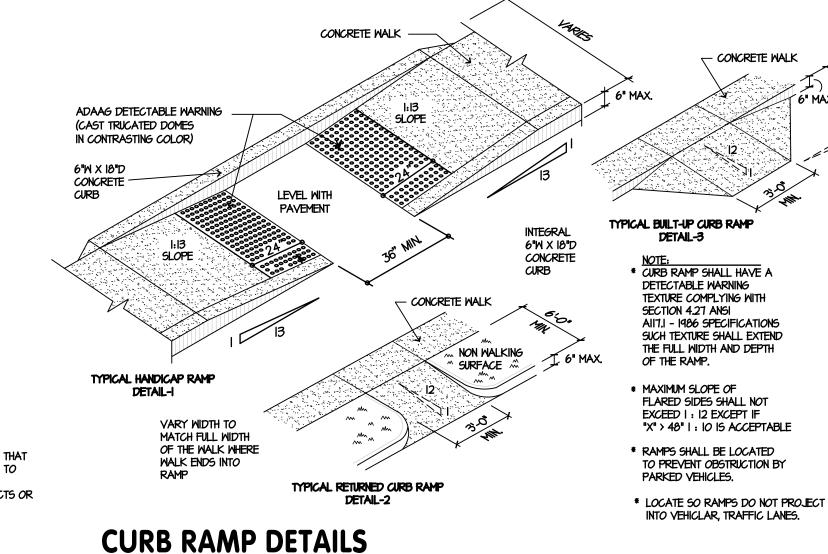
IN FRONT OF URINAL TO ALLOW

### **TOILET ROOM NOTES**

- INSTALL 2 x WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORY AND GRAB BAR LOCATIONS. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM BOARD
- ON INSIDE FACE OF ALL TOILET ROOM PARTITIONS AT PLUMBING FIXTURE LOCATIONS. MANUFACTURER FOR ALL ACCESSORIES TO BE SELECTED
- TOILET ROOM DOOR SIGNS PROVIDED BY G.C. CENTERLINE 8. PROVIDE TRAP WRAP #PW-2125 BY PRO WRAP AT OF SIGNS TO BE 60" A.F.F. SIGNAGE TO BE A.D.A. COMPLIANT.
- LAVATORIES SHALL BE LOCATED SUCH THAT TOP OF RIM OR COUNTER SURFACE BE AT A MAX OF 34" A.F.F. PROVIDE 29" MIN. CLEARANCE BETWEEN FINISH FLOOR AND BOTTOM OF APRON AND SHALL COMPLY WITH A.D.A. A.G. 4.192.
- 6. LAVATORIES SHALL BE LOCATED SUCH THAT A CLEAR COMPLY WITH A.D.A. A.G. 4.193. ALL FAUCETS SHALL BE LEVER OPERATED, PUSH
- TYPE, AND COMPLY WITH A.D.A. A.G. 4.27.4. IF SELF CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
- OF THE TOILET SEAT FROM THE FLOOR. IO. WATER CLOSET FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH A.D.A. A.G. 4.27.4. CONTROLS FOR FLUSH SHALL BE BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS.
- FLOOR SPACE OF 30" X 48" IS PROVIDED AND SHALL
- ALL A.D.A. ACCESSIBLE LAVATORIES WITH EXPOSED PIPING. WATER CLOSETS TO BE 17" TO 19" MEASURED TO TOP

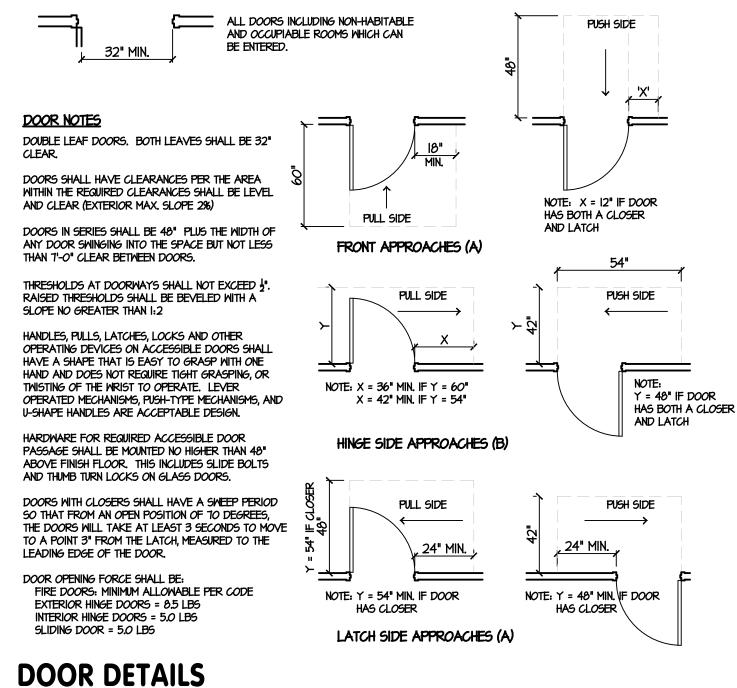
### TYPICAL SIGN LOCATION - TEXT SIZED ACCORDING TO (LATCH SIDE OF DOOR VIEWING DISTANCE 3" MIN. BASED WHEN POSSIBLE.) ON UPPER CASE "X", LOWER CASE CHARACTERS PERMITTED . Xray-35 CHARACTER PROPORTION - LETTERS AND NUMBERS SHALL HAVE HT. TO WD. RATIO 3:5 AND I:I AND WIDTH TO HT. RATIO BETWEEN 1:5 AND 1:10 TYPICAL SIGN LOCATION CHARACTER HEIGHT - LETTERS AND NUMBERS ON (LATCH SIDE OF DOOR SIGNS SHALL SHALL BE SIZED ACCORDING TO THE WHEN POSSIBLE.) VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MIN. HT. IS MEASURED USING UPPER CASE "X" LOWER CASE CHARACTERS ARE FINISH AND CONTRAST - CHARACTERS AND BACKROUND OF SIGNS TO BE OF NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THIER BACKROUND EITHER LIGHT CHARACTERS ON DARK BACKROUND OR VISE WITHIN 3" OF SIGN WITHOUT (FOR ADDITIONAL AND/OR MORE DETAILED INFORMATION SEE ADAAG - 4.30)

### 6"W X 18"D CONCRETE LOCATE IN SUCH A MANNER THAT A PERSON MAY APPROACH TO INTERFERENCE FROM OBJECTS OR



PREDOMINANT DIRECTION

### **ADA COMPLIANT SIGNAGE** (ADAAG 4.30)



CLEAR KNEE SPACE SHOULD

BE AS DEEP AS THE REACH

DISTANCE

MAX. SIDE REACH

OVER OBSTRUCTION - (C)

MAX. FORWARD REACH OVER OBSTRUCTION - (B)

DISPENSER

DISPENSER

FORWARD REACH POSSIBLE - (A)

SIDE REACH POSSIBLE - (B)

CONTROLS REACH LIMITS

(ADAAG 4.7. FIG. A8)

**REACH LIMITS** 

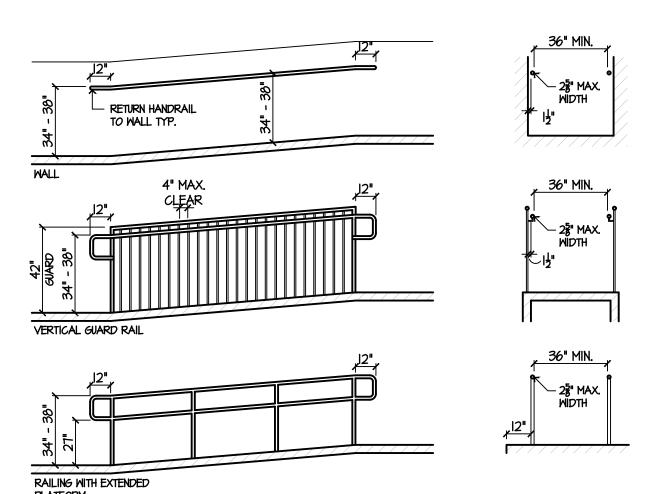
DISPENSER

### GRATES LOCATED IN WALKING SURFACES INCLUDING PARKING LOTS MAX. I/2" SPACES IN ONE DIRECTION. ENLONGATED OPENINGS TO BE IN DIRECTION PERPENDICULAR TO DOMINANT DIRECTION OF TRAVEL. **GRATE**

VENDING

CONTROLS

CONTROLS



CARPET TO BE ONE LEVEL LOOP TEXTURED

THICKNESS I/2". EXPOSED EDGES TO HAVE

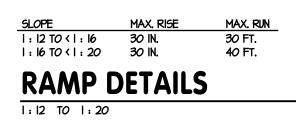
EDGE STRIP WHICH COMPLIES WITH CHANGE

LOOP LEVEL, CUT PILE OR LEVEL CUT /

UNCUT PILE TEXTURE. MAXIMUM PILE

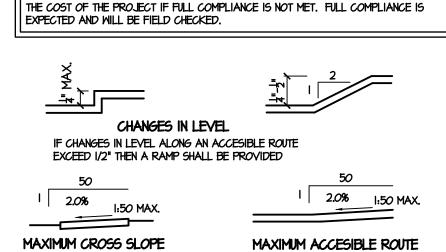
IN LEVEL REQUIREMENTS.

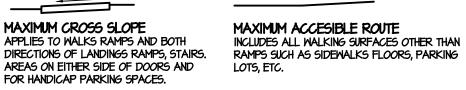
**CARPET** 



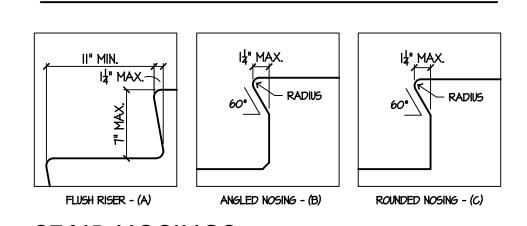
RAMPS (EXCEPT CURB RAMPS) OVER 6" RISE OR OVER A 72" RUN SHALL HAVE A HANDRAILS ON BOTH SIDES. TOP BETWEEN 34" AND 36" ABOVE RAMP RAIL TO EXTEND 12" BEYOND TOP AND BOTTOM PARALLEL TO GROUND SURFACE RAILS CONTINOUS AT SWITCHBACKS ENDS OF RAILS TO BE ROUNDED OR RETURNED TO WALL. FLOOR

### AN ALTERATION THAT AFFECTS OR COULD AFFECT THE USEABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL BE MADE SO AS TO ENSURE THAT TO THE MAXIMUM EXTENT FEASIBLE THE PATH OF TRAVEL TO THE ALTERED AREA AND THE RESTROOMS, TELEPHONES AND DRINKING FOUNTAINS SERVING THE ALTERED AREA ARE READILY ACCESSIBLE TO AND USEABLE BY INDIVIDUALS WITH DISABLITIES. UNLESS SUCH ALTERATIONS ARE DISPROPORTIONATE TO THE OVERALL ALTERATIONS IN TERMS OF COST AND SCOPE. (NOT TO EXCEED 20% OF THE COST OF ALL ALTERATIONS) CONTRACTOR TO PROVIDE DOCUMENTATION TO THE FIELD INSPECTOR TO INDICATE COMPLIANCE WITH 20% OF THE COST OF THE PROJECT IF FULL COMPLIANCE IS NOT MET. FULL COMPLIANCE IS





### **LEVEL CHANGES**



### **STAIR NOSINGS**

### $\overline{\mathbf{z}}$ 0 1 S <u>m</u>

4

**Q** 

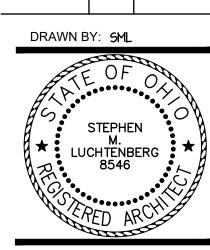
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TIDI 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

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COMMISSION L-2018

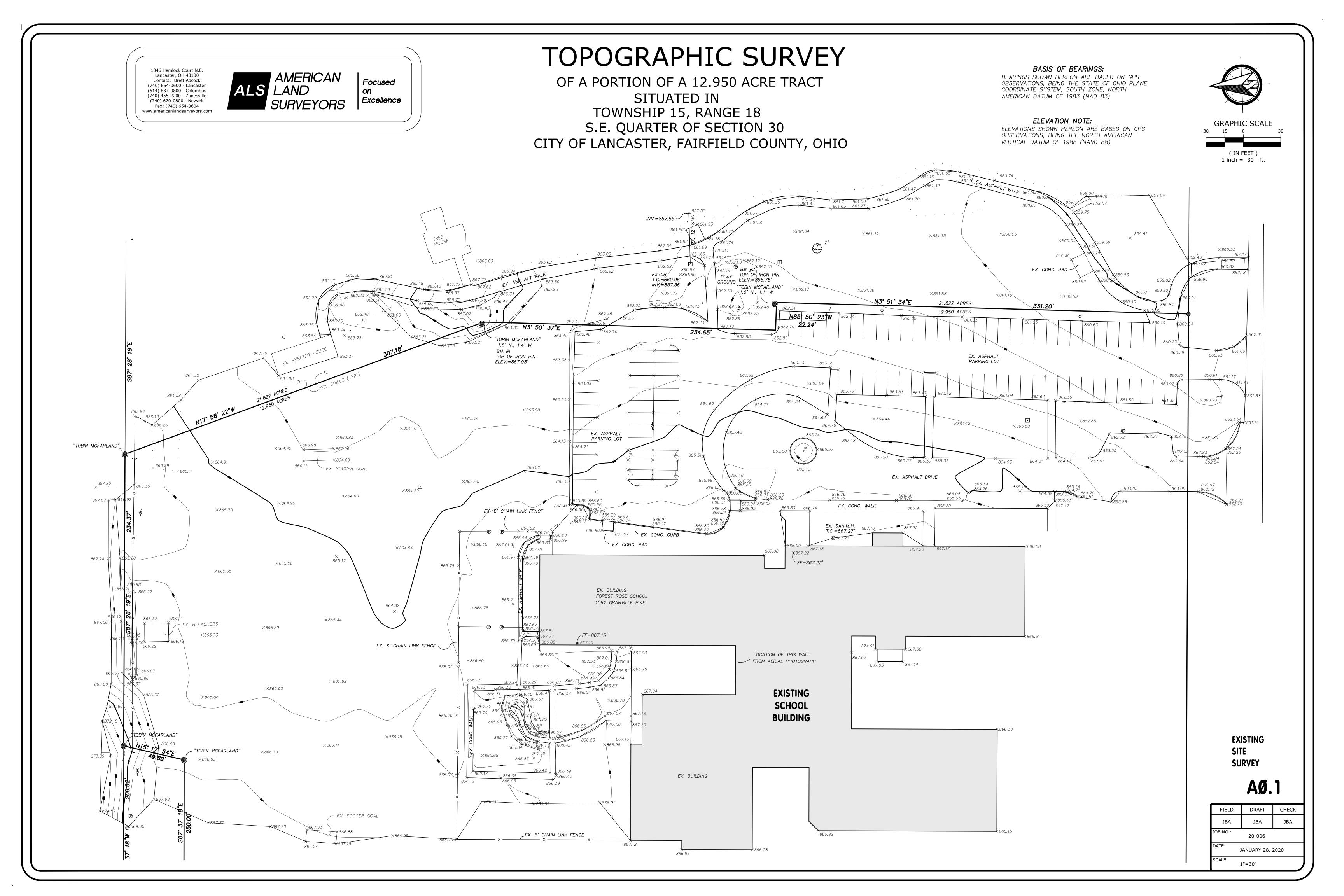
ISSUE MARK DATE 4-5-21 DRAWN BY: 5ML



Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2021 COMPLIANT **DETAILS AND GENERAL INFO** 

DRAWING NUMBER

USEABLE TREAD WIDTH AND EX. OF ACCEPTABLE NOSINGS (ADAAG 4.9.6 FIGURE IO)



CITY OF LANCASTER, OHIO

### PRIVATE SITE IMPROVEMENTS

### FOREST ROSE SPORTS COMPLEX

739 COLLEGE AVENUE

**APRIL, 2021** 

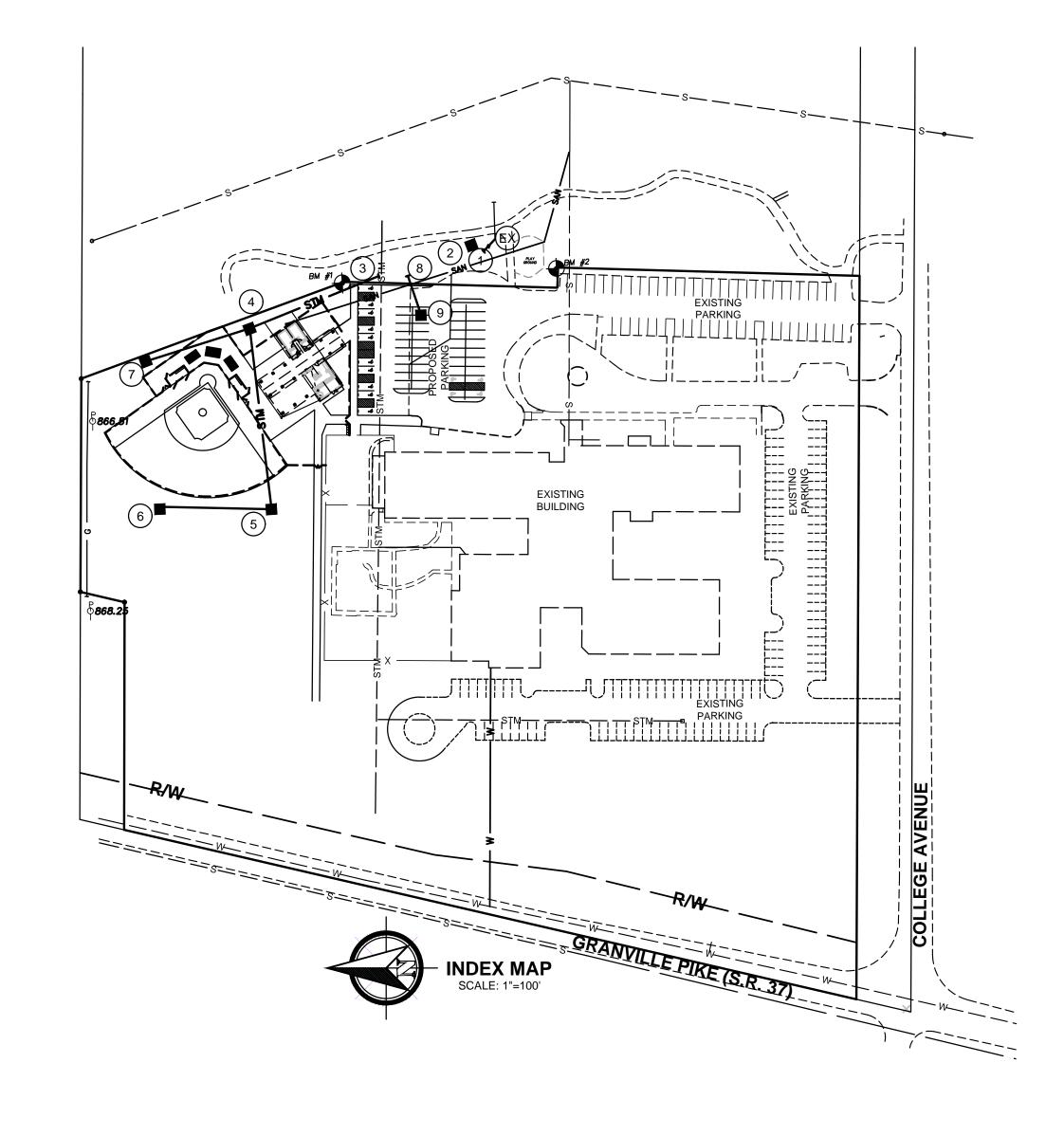
	SUMMARY OF ESTIMATED QUANTITIES						
NO.	SPEC	DESCRIPTION	UNIT	QTY			
1	203	EXCAVATION, INCLUDING EMBANKMENT	CY.	2743			
2	204	SUBBASE COMPACTION	SY.	912			
3	207	DANDY SACK	EA.	7			
4	207	SILT FENCE	LF.	438			
5	304	AGGREGATE BASE	CY.	204			
6	407	TACK COAT	SY.	912			
7	448	ASPHALT CONCRETE SURFACE COURSE	CY.	38			
8	448	ASPHALT CONCRETE INTERMEDIATE COURSE	CY.	64			
9	603	8" HDPE STORM SEWER PIPE, 707.33, COMPACTED GRANULAR	LF.	184			
10	603	10" HDPE STORM SEWER PIPE, 707.33, COMPACTED GRANULAR	LF.	123			
11	603	12" HDPE STORM SEWER PIPE, 707.33, COMPACTED GRANULAR	LF.	200			
12	603	15" HDPE STORM SEWER PIPE, 707.33, COMPACTED GRANULAR	LF.	153			
13	604	STANDARD CATCH BASIN	EA.	6			
14	608	CONCRETE WALK	SY.	550			
15	806	2" WATER SERVICE EXTENSION, COMPLETE	EA.	1			
16	915	CLEANOUT	EA.	2			
17	918	6" PVC SANITARY SEWER PIPE, 707.45	LF.	417			

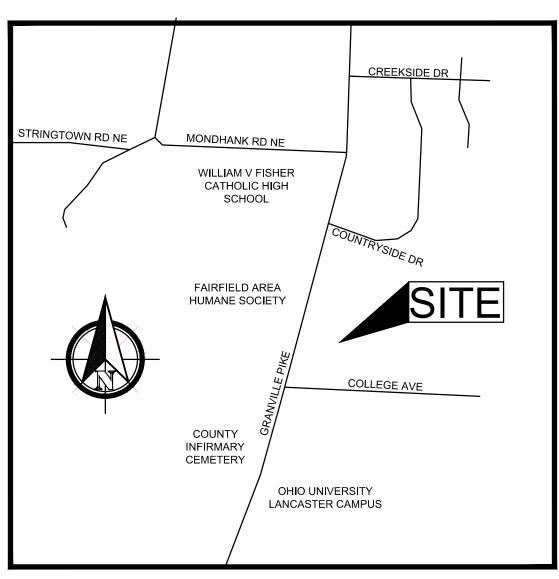
THE CURRENT CITY OF LANCASTER, CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSL), INCLUDING ALL SUPPLEMENTS THERETO, WITH THE REQUIREMENTS OF THE CITY OF LANCASTER CURRENT ON THE DATE OF THE CONTRACT, SHALL GOVERN ALL WORKMANSHIP, MATERIALS AND METHODS OF CONSTRUCTION INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

SECTIONS OF CMSL REFER TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT-CMS). THE CONTRACTOR SHALL KEEP COPIES OF CMSL AND ODOT-CMS ON THE PROJECT SITE DURING ALL CONSTRUCTION OPERATIONS.

THE STANDARD DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF

	STANDARD DRAWINGS - CITY OF LANCASTER						
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION				
D-1	DRAIN TILE REPLACEMENT	S-29	STANDARD CATCH BASIN				
D-2	CRADLE TYPE HEADWALL FOR CONCRETE PIPE	M-3	DUMPSTER ENCLOSURE				
D-5	SILT FENCE						
D-6	EROSION CONTROL CHECK DAMS	P-1	TYP. PAVEMENT REPLACEMENT FOR STREETS, ALLEYS, DRIVES, AND BIKE PATHS				
D-8	EROSION CONTROL STORM INLET PROTECTION	W-2	STANDARD WATER SERVICE				
S-1	TYPE I BEDDING	W-4	TYPICAL WATER SERVICE 1/2" TO 2"				
S-2	STONE FOUNDATION	W-12	BACKING FOR BENDS				
S-18	CLEANOUT	W-14	CASTING PIPE PLUMBING				
S-20	TYPICAL SANITARY CONNECTION SERVICE	W-16	STANDARD SLIDE TYPE WATER VALVE BOX				





NO SCALE

### **BENCH MARKS**

ELEVATIONS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS IN CONJUNCTION WITH THE OHIO DEPARTMENT OF TRANSPORTATION VIRTUAL REFERENCE STATION (VRS) UTILIZING THE 12A GEOID, BEING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

TOP OF IRON PIN FOUND MARKED "TOBIN MCFARLAND" 1.5'N, 1.4'W

ELEV. = 867.93'

8M#2

TOP OF IRON PIN FOUND MARKED "TOBIN MCFARLAND" 1.6'N, 1.1'W

ELEV. = 865.75

### **INDEX OF SHEETS**

C0.01......COVER SHEET C0.02......GENERAL NOTES

C0.03......SITE DIMENSION & COMPOSITE UTILITY PLAN

C0.04......STORM SEWER, GRADING, & SWP3

C0.05......UTILITY PROFILES

### DEVELOPER'S STATEMENT OF INTENT

JOHN PEKAR
FAIRFIELD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
795 COLLEGE AVENUE
LANCASTER, OHIO 43130
PHONE: 740.652.7220
E-MAIL: JPEKAR@FAIRFIELDDD.COM

I HEREBY STATE THAT THESE PLANS HAVE BEEN PREPARED WITH MY KNOWLEDGE AND CONCURRENCE AND REPRESENT MY INTENT AND INTERESTS.

JOHN PEKAR DATE



1-800-362-2764

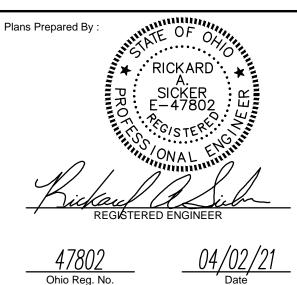
CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

RAS CIVIL ENGINEERING, LLC

CIVIL ENGINEERING & SURVEYING SERVICES
P.O. BOX 114 • AMLIN, OHIO • 43002
614-581-8504 • RICK\_SICKER@ATT.NET

### PERMIT 04-05-2021

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res below signify only concurrence with the general purpose and	general location of the project. All technical details remain the
sibility of the engineer preparing the plans.	Ţ
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MARTIN, SERVICE-SAFETY DIRECTOR	MITCH NOLAND, P.E., CITY ENGINEER
G HINTZ, SUPERINTENDENT, DEPARTMENT OF TRANSPORTATION	KURTIS WAITE, GENERAL MANAGER, MUNICIPAL GAS
NIXON, SUPERINTENDENT, WATER POLLUTION CONTROL	ANDY GUNDELFINGER, DISTRIBUTION SUPERVISOR, WATER DEPT.
D WARD, CHIEF, FIRE DEPARTMENT	BILL BURROWS, SUPERINTENDENT, SANITATION DEPT.

NG. FILE NO. 14.0242 (A)	
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OMPLETION DATE	
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### City of Lancaster, Ohio

DIVISION OF ENGINEERING & CONSTRUCTION FOREST ROSE SPORTS COMPLEX

739 COLLEGE AVENUE ~ LANCASTER, OHIO

**COVER SHEET** 

... **C0.01** 

### **001** <u>UTILITY OWNERS</u>: THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT: CITY OF LANCASTER DIVISION OF WATER CABLE TV: CHARTER COMMUNICATIONS (SPECTRUM) WATER: 400 ATLANTIC STREET, 10TH FLOOR 225 N. MEMORIAL DR. STAMFORD CT 06901 ATTN: BRIAN AMENDE ATTN: ANDY GUNDELFINGER BRIAN.AMENDE@CHARTER.COM 740-687-6631 SEWERS: SANITARY CITY OF LANCASTER CITY OF LANCASTER WATER POLLUTION CONTROL DEPARTMENT OF TRANSPORTATION 800 LAWRENCE STREET 815 LAWRENCE STREET LANCASTER, OHIO 43130 LANCASTER, OHIO 43130 ATTN: MIKE NIXON ATTN: GREG HINTZ 740-687-6664 740-687-6668 ELECTRIC: AEP OF OHIO 1 RIVERSIDE PLAZA COLUMBUS, OH 43215 ATTN: MICHAEL TRAVIS ATTN: ROBBIE SHEILDS 740.591.8030 TELECOMMUNICATIONS AND SIGNALS: 140 WEST WHEELING STREET DEPARTMENT OF TRANSPORTATION INFORMATION TECHNOLOGY DIVISION ATTN: CHRISTOPHER MORRIS 815 LAWENCE STREET 121 E CHESTNUT ST. SUITE 50 LANCASTER, OHIO 43130 LANCASTER, OHIO 43130 740.302.1197 ATTN: CHARLES JOHNSON ATTN: TIM DEITZ ATTN: MARK STARR 740.532.9943 740-687-6668 NATURAL GAS: CITY OF LANCASTER MUNICIPAL GAS 1424 CAMPGROUND ROAD LANCASTER, OHIO 43130 ATTN: HANK TOPF

\*THESE COMPANIES HAVE TRANSMISSION LINES THROUGH THE CITY, BUT DO NOT SERVE CUSTOMERS WITHIN

TILITY LOCATIONS AND NOTIFICATION: THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF UTILITIES AS REQUIRED BY THE OHIO REVISED CODE, SECTION 153.64. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND ELEVATION WHEN WORKING IN THEIR VICINITY.

LOCATION SUPPORT PROTECTION AND RESTORATION OF ALL LITHLITY LINES. SERVICES, AND APPLIRTENANCES. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES. THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT THE EXACT ELEVATION MAY BE DETERMINED AND THE NECESSARY ADJUSTMENTS MADE. COST OF THE ABOVE WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE PERTINENT ITEM, UNLESS OTHERWISE NOTED ON THE PLANS. ESTIMATED QUANTITIES SHOWN ON THE PLANS FOR WATER AND SANITARY SEWER RELOCATIONS ARE FOR THOSE ITEMS ACTUALLY CALLED FOR AND SHOWN ON THE PLANS.

AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS INVOLVING ANY EXCAVATING, AUGURING, BORING, OR OTHER EARTH DISTURBING ACTIVITY, OR THE DEMOLITION OF ANY STRUCTURES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE, OHIO UTILITY PROTECTION SERVICE (OUPS) (1\_800\_362\_2764) AND THE OWNERS OF EACH UTILITY FACILITY SHOWN IN THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING A SEPARATE CONTACT WITH ALL NON-OUPS REGISTERED UTILITIES WITH FACILITIES IN THE PROJECT AREA. THROUGHOUT THE TERM OF THE PROJECT, THE CONTRACTOR SHALL MAKE ADDITIONAL CONTACT WITH OUPS AND NON-REGISTERED UTILITIES AS REQUIRED BY THE OHIO REVISED CODE, SECTION 153.64.

ANY EXISTING UTILITY OR APPURTENANCE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR, OR AT THE CONTRACTOR'S EXPENSE.

003 SURVEYS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION. THE CITY OF LANCASTER HAS ESTABLISHED BENCHMARKS AND CONTROL POINTS FROM WHICH

**004** <u>MODIFICATIONS</u>: ANY MODIFICATIONS OR CHANGES TO THE WORK, AS SHOWN ON THE DRAWINGS, MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF LANCASTER, OR HIS DESIGNEE.

**005** SAFETY: THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND CITY SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS, INCLUDING EMPLOYEES AND PROPERTY. IT IS ALSO THE CONTRACTOR'S SOLE RESPONSIBILITY TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING THE PROJECT SITE FROM THE GENERAL PUBLIC BOTH DURING AND AFTER HIS WORKING HOURS. THE CONTRACTOR SHALL PROVIDE. ERECT AND MAINTAIN ALL LIGHTS, SIGNS, FENCES OR ANY OTHER SAFETY DEVICES TO PREVENT UNAUTHORIZED PERSONNEL FROM HAZARDOUS OR DANGEROUS CONDITIONS ON THE PROJECT SITE. THE COST OF SUCH WORK SHALL BE NCLUDED IN THE VARIOUS ITEMS BID FOR FURNISHING AND INSTALLING MATERIALS ON THIS PROJECT.

006 REVIEW OF PROJECT SITE: PRIOR TO BIDDING THE CONTRACTOR SHALL, BY PERSONAL EXAMINATION, SATISFY HIMSELF AS TO THE LOCATION OF THE PROPOSED WORK AND TO ACQUAINT HIMSELF THOROUGHLY WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT ARE LIKELY TO BE ENCOUNTERED IN THE PERFORMANCE OF THE PROPOSED WORK

**007** PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND ANY OTHER SURVEY MONUMENTS OR MARKERS. IF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, OR HIS SUB-CONTRACTORS RESULT IN DESTRUCTION OF OR DAMAGE TO ANY OF THE ABOVE ITEMS, THOSE ITEMS SHALL BE ACCURATELY RESTORED BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

008 NOTIFICATION OF CONSTRUCTION: A MINIMUM OF TEN (10) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL MEET WITH AND SUBMIT A CONSTRUCTION SCHEDULE TO THE CITY ENGINEER, SECURE ALL NECESSARY LICENSES AND PERMITS, AND PAY ALL INSPECTION FEES. TAPS OR CONNECTIONS INTO ANY CITY OWNED LINE (SANITARY SEWER, STORM SEWER, WATER LINE AND/OR GAS LINE) SHALL NOT BE MADE UNTIL THE REQUIRED TAP PERMIT HAS BEEN ISSUED.

THE CONTRACTOR SHALL NOTIFY THE CITY OF LANCASTER, CITY ENGINEER'S OFFICE A MINIMUM OF TWO (2) DAYS BEFORE BEGINNING WORK, HOLIDAYS AND WEEKENDS EXCLUDED. WHEN THE CONTRACTOR SUSPENDS OPERATIONS FOR TWO (2) OR MORE WORKING DAYS, HE SHALL NOTIFY THE CITY ENGINEER A MINIMUM OF TWENTY FOUR (24) HOURS BEFORE RESUMING WORK.

010 EXCAVATION: ALL EXCAVATION ON THIS PROJECT IS UNCLASSIFIED. THE CONTRACTOR SHALL MAKE ALL EXCAVATION OF WHATEVER NATURE NECESSARY FOR CONSTRUCTION OF WATER LINES AND SEWERS AND THEIR APPURTENANT STRUCTURES INCLUDED IN THIS PROJECT.

**011** <u>DELIVERIES TO JOB SITE - HAUL ROUTES:</u> DELIVERIES OF MATERIALS AND EQUIPMENT TO AND FROM THE JOB SITE SHALL BE ROUTED TO MAXIMIZE THE USE OF STATE AND FEDERAL ROUTES AND TO MINIMIZE THE USE OF CITY STREETS. NO LESS THAN TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A HAUL ROUTE LETTER TO THE CITY ENGINEER DESIGNATING THOSE ROUTES TO BE USED. IF ANY CHANGES ARE NEEDED TO THE APPROVED ROUTE. THE CONTRACTOR SHALL SUBMIT A REVISION TO THE HAUL ROUTE LETTER A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO THE DELIVERY DATE. THE ENGINEER SHALL HAVE THE RIGHT TO LIMIT THE ROUTE OF DELIVERY, TOTAL TONNAGE PER VEHICLE PER DELIVERY, OR THE HOURS SUCH DELIVERIES MAY BE MADE.

**013** <u>OPERATION OF FIRE HYDRANTS AND WATER VALVES:</u> THE CONTRACTOR SHALL NOT OPERATE, OPEN, CLOSE, OR OTHERWISE USE ANY CITY OWNED FIRE HYDRANT OR WATER LINE VALVE WITHOUT THE WRITTEN AUTHORIZATION OF THE SUPERINTENDENT, DIVISION OF WATER. ANY UNAUTHORIZED TAKING OF WATER FROM THE CITY DISTRIBUTION SYSTEM WILL RESULT IN PROSECUTION FOR THE THEFT OF A PUBLIC UTILITY. ANY DAMAGE CAUSED TO THE FIRE HYDRANTS OR WATER VALVES AS A RESULT OF THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED BY DIVISION OF WATER FORCES AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE USE OF FIRE HYDRANTS WILL NOT BE PERMITTED ON THIS PROJECT. THE DIVISION OF WATER WILL PROVIDE THE CONTRACTOR POTABLE WATER AT THE MILLER PARK WATER TREATMENT PLANT, 225 NORTH MEMORIAL DRIVE, IN BULK AT A RATE OF \$0.015 PER GALLON. THE CONTRACTOR MAY MAKE ARRANGEMENTS FOR OBTAINING WATER AT 740-687-6631

THE COST OF OBTAINING AND/OR PROVIDING WATER SHALL BE INCLUDED IN THE CONTRACTOR'S VARIOUS PRICES BID FOR ASSOCIATED ITEMS IN THE PROJECT UNLESS OTHERWISE PROVIDED FOR AS A SEPARATE BID

EASEMENT REFERENCE

014 LINE CROSSINGS: AT ALL UTILITY CROSSINGS, THE BACKFILL SHALL BE GRANULAR MATERIAL, PER ITEM 912. BETWEEN THE TOP OF THE UPPER CONDUIT AND THE BOTTOM OF THE LOWER CONDUIT, PROVIDED THE VERTICAL CLEARANCE BETWEEN THE TWO PIPES IS 1-FOOT OR MORE. WHERE THE CLEARANCE IS LESS, A CONCRETE CRADLE SHALL BE POURED FROM THE BOTTOM OF THE LOWER PIPE TO THE SPRING LINE OF THE UPPER PIPE FOR THE FULL-WIDTH OF THE UPPER PIPE'S TRENCH WIDTH, OR LONGER IF THE ENGINEER SO ORDERS.

A TWELVE INCH (12") THICK SAND ENVELOPE SHALL BE USED AROUND ALL WATER AND GAS LINES TO PROTECT SAID LINES FROM ABRASIVE AND PROTRUDING AGGREGATE. THIS SAND SHALL BE FINE GRADED AGGREGATE PER ODOT 703.02.A AND FREE OF LARGE PARTICLES.

015 <u>DISPOSAL OF EXCESS EXCAVATED MATERIAL:</u> THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING A SITE FOR THE DISPOSAL OF EXCESS EXCAVATED MATERIAL. BEFORE DISPOSING ANY SUCH MATERIAL, THE CONTRACTOR SHALL HAVE THE DISPOSAL SITE APPROVED BY THE CITY ENGINEER.

THE CONTRACTOR IS NOTIFIED THAT THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE REGULATES THE PLACEMENT OF FILL IN SPECIAL FLOOD HAZARD AREAS. AS DELINEATED ON THE CURRENT FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS FOR THE CITY OF LANCASTER. THE CONTRACTOR SHALL FIRST OBTAIN A DEVELOPMENT PERMIT FROM THE ENGINEERING DEPARTMENT BEFORE DISPOSING ANY EXCESS EXCAVATED MATERIALS WITHIN ANY DESIGNATED SPECIAL FLOOD HAZARD AREA. IN DISPOSING OF EXCESS EXCAVATED MATERIALS IN AREAS OF SPECIAL FLOOD HAZARD, THE CONTRACTOR SHALL COMPLY WITH THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE. IF EXCESS EXCAVATED MATERIALS ARE DEPOSITED IN A SPECIAL FLOOD HAZARD AREA WITHOUT A PERMIT, THE CONTRACTOR SHALL PROMPTLY REMOVE THE MATERIAL FROM THE SPECIAL FLOOD HAZARD AREA. THE COST OF THIS WORK SHALL BE BORNE BY THE CONTRACTOR

FEMA FIRM MAPS ARE AVAILABLE FOR INSPECTION IN THE ENGINEERING DEPARTMENT'S OFFICE IN THE MUNICIPAL ANNEX, 121 EAST CHESTNUT STREET, SUITE 100, LANCASTER, MONDAYS THROUGH FRIDAYS BETWEEN

016 WEEKEND AND HOLIDAY WORK: NO WORK THAT REQUIRES CITY OF LANCASTER INSPECTION SHALL BE PERMITTED ON WEEKENDS OR ON CITY OF LANCASTER HOLIDAYS WITHOUT THE PRIOR. WRITTEN APPROVAL OF THE CITY ENGINEER. IF THE CONTRACTOR NEEDS TO PERFORM WORK THAT REQUIRES CITY OF LANCASTER INSPECTION ON A WEEKEND DAY OR A HOLIDAY. HE SHALL SUBMIT HIS REQUEST STATING THE REASONS FOR WORKING THOSE DAYS TO THE CITY ENGINEER A MINIMUM OF FORTY\_EIGHT (48) HOURS IN ADVANCE OF THAT WEEKEND OR HOLIDAY

**019** SHOP DRAWINGS AND MATERIAL CERTIFICATIONS: TWENTY (20) BUSINESS DAYS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT THE SOURCES FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT TO THE CITY ENGINEER. WHEN REQUIRED IN CMSL OR BY PLAN NOTE, THE CONTRACTOR SHALL ALSO PROVIDE MATERIAL SUPPLIER'S CERTIFICATION THAT THE MATERIALS HE/SHE SUPPLIES FOR THE PROJECT MEET THE PERTINENT MATERIAL SPECIFICATION. THE CONTRACTOR SHALL ALSO SUBMIT SHOP DRAWINGS ON ALL PRECAST ITEMS OR OTHER ITEMS CONSTRUCTED OR FABRICATED WHOLLY OR IN PART OFF THE JOB-SITE THAT WILL BE INCORPORATED INTO THE WORK. NO MATERIALS SHALL BE INSTALLED UNTIL THE CITY ENGINEER HAS APPROVED THE SOURCE, THE MATERIAL CERTIFICATION AND/OR THE SHOP DRAWINGS FOR IT.

022 PAVEMENT CLEANING: THE CONTRACTOR IS HEREBY NOTIFIED THAT IT IS HIS/HER RESPONSIBILITY TO KEEP STREETS AND ROADS CLEAR OF ALL MUD. DIRT. GRAVEL, AND/OR STONES OF ANY KIND DEPOSITED AS A RESULT OF HIS/HER OPERATIONS. PAVEMENTS SHALL BE CLEANED AT THE END OF EACH WORK DAY AND AT ANY OTHER TIME AS THE ENGINEER DIRECTS. FAILURE TO COMPLY WITH THIS NOTE MAY RESULT IN THE CONTRACTOR'S PROSECUTION UNDER L.C.O. 902.06, 902.08, AND/OR 902.09. IN ADDITION, UPON THE CONTRACTOR'S FAILURE TO ADEQUATELY CLEAN THE PAVEMENT UPON NOTICE FROM THE ENGINEER, THE CITY MAY CLEAN THE PAVEMENT AND CHARGE THE CONTRACTOR FOR THE COST OF THIS WORK.

**023** <u>WORK LIMITS</u>: THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHT\_OF\_WAYS, AND/OR APPLICABLE CONSTRUCTION/PERMANENT EASEMENTS. THE CONTRACTOR SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER. ALL DAMAGE TO PRIVATE PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE ENGINEER'S SATISFACTION. THE CONTRACTOR SHALL BEAR THE COST OF THIS WORK.

**024** TEMPORARY PAVEMENT REPLACEMENT: TEMPORARY PAVEMENT REPLACEMENT SHALL BE PROVIDED ON PERMANENT PAVEMENTS DAMAGED OR REMOVED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK TO LIMITS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER. AS SOON AS THE TRENCH HAS BEEN BACKFILLED. TEMPORARY PAVEMENT SHALL BE INSTALLED. THE ENGINEER MAY REQUIRE THAT ALL MATERIALS AND EQUIPMENT INCIDENTAL TO PROVIDING THE TEMPORARY PAVEMENT BE ON THE JOB SITE PRIOR TO REMOVING THE EXISTING PAVEMENT. THE TEMPORARY PAVEMENT SHALL CONSIST OF 2 INCHES OF COMPACTED BITUMINOUS MATERIAL ITEM 405 CMSL PLACED UPON 6 INCHES OF COMPACTED ITEM 304. CMSL AGGREGATE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE TEMPORARY PAVEMENT UNTIL THE PLACEMENT OF THE PERMANENT PAVEMENT IS COMPLETE.

025 PERMANENT PAVEMENT REPLACEMENT: PERMANENT PAVING SHALL NOT BEGIN PRIOR TO THE ENGINEER'S PPROVAL OF THE TRENCH BACKFILL. THE EXISTING PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED IN A STRAIGHT LINE AT A DISTANCE OF NO LESS THAN 12-INCHES BEYOND THE TRENCH LIMITS. IF TEMPORARY PAVEMENT HAS BEEN PLACED, IT SHALL BE REMOVED DOWN TO CLEAN GRANULAR TRENCH BACKFILL MATERIAL THE PAVEMENT TO BE REMOVED SHALL NOT BE REMOVED MORE THAN 24 HOURS PRIOR TO THE PLACING OF PERMANENT PAVEMENT MATERIALS. THE PERMANENT PAVEMENT MATERIALS AND WORKMANSHIP SHALL BE THE FOULVALENT TO THE EXISTING PAVEMENT BEING REPLACED, OR THE PERTINENT STANDARD CONSTRUCTION DRAWING, WHICHEVER IS GREATER. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE PERTINENT STANDARD CONSTRUCTION DRAWING AND CMSL.

026 MISCELLANEOUS WORK: ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

027 FINAL CLEAN UP: THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS/HER OPERATIONS. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ALL PUBLIC AND PRIVATE SURFACES, STRUCTURES, AND/OR PROPERTIES THAT WERE DISTURBED DURING HIS/HER OPERATIONS TO THEIR ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL ALSO RESTORE ANY DISTURBED STREAM CHANNELS SWALES, AND/OR DITCHES TO THEIR ORIGINAL OR BETTER CONDITION. THIS RESTORATION WORK SHALL INCLUDE THE REMOVAL OF ALL DEPOSITS OF SEDIMENT, SAND, GRAVEL, OR DIRT IN ANY WATERWAYS, AND ANY SUBSEQUENT RESEEDING OR SODDING OF THOSE WATERWAYS USING TYPE A SEED MIXTURE IN CONFORMITY WITH ODOT CMS ITEM 659, AS DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL PERFORM THIS WORK AT HIS/HER EXPENSE, AND SHALL NOT BE DUE ANY EXTRA PAYMENT.

THE CONTRACTOR'S FAILURE TO ADEQUATELY COMPLETE THIS ACTIVITY SHALL RESULT IN THE DELAY OF FINAL PAYMENT UNTIL SUCH TIME THAT CLEAN-UP HAS BEEN PERFORMED TO THE SATISFACTION OF THE ENGINEER

028 CONSTRUCTION NOISE: ACTIVITIES AND LAND USES ADJACENT TO THE PROJECT MAY BE ADVERSELY AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE THE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED EQUIPMENT OR CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. THIS TIME RESTRICTION DOES NOT APPLY FOR GENERATORS USED TO MAINTAIN OVERNIGHT BYPASS PUMPING AND/OR DEWATERING OPERATIONS. IN ADDITION, ANY SUCH EQUIPMENT SHALL NOT BE OPERATED AT ANY TIME IN SUCH MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

029 RECORD DOCUMENTS: THE CONTRACTOR SHALL MAINTAIN IN A SAFE PLACE AT THE SITE TWO RECORD COPIES OF DRAWINGS SPECIFICATIONS ADDENDA CHANGE ORDERS WORK CHANGE DIRECTIVES FIFLD ORDERS, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS IN GOOD ORDER AND ANNOTATED TO SHOW BOTH CHANGES MADE DURING CONSTRUCTION AND THE LOCATION/EXTENT OF ANY UNFORESEEN CONDITIONS OR OBSTRUCTIONS. THE RECORD CONDITIONS SHALL BE SHOWN IN RED AND ANY PLAN CHANGES SHALL BE OUTLINED. THESE RECORD DOCUMENTS, TOGETHER WITH ALL APPROVED SAMPLES, WILL BE AVAILABLE TO THE ENGINEER AND HIS REPRESENTATIVES FOR REFERENCE. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER THESE RECORD DOCUMENTS TO THE ENGINEER.

030 INDEMNIFICATION: THE CONTRACTOR WILL INDEMNIFY AND HOLD HARMLESS THE CITY AND THE ENGINEER AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEYS' FEES ARISING OUT OF OR RESULTING FROM PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIMS, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY, INCLUDING THE LOSS OF USE RESULTING THEREFROM; AND IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT OR WILLFUL ACT OR OMISSION OF THE CONTRACTOR, AND SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

IN ANY AND ALL CLAIMS AGAINST THE CITY OR THE ENGINEER, OR ANY OF THEIR AGENTS OR EMPLOYEES, BY ANY EMPLOYEE OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE. THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR ANY SUBCONTRACTOR UNDER WORKERS' COMPENSATION ACTS. DISABILITY BENEFIT ACTS. OR OTHER EMPLOYEE

OBLIGATION OF THE CONTRACTOR UNDER THIS PARAGRAPH SHALL NOT EXTEND TO THE LIABILITY OF THE ENGINEER, HIS AGENTS OR EMPLOYEES ARISING OUT OF THE PREPARATION OR APPROVAL OF MAPS, PLANS, OPINIONS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGNS OR SPECIFICATIONS.

### **GENERAL NOTES**

035 DUMPSTER PAD: THE DUMPSTER PAD AND ENCLOSURE SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE SANITATION DEPARTMENT'S (740-687-6660) STANDARDS AS SHOWN IN STANDARD CONSTRUCTION DRAWING M-3. THE CONTRACTOR MAY CONSULT THE SUPERINTENDENT. SANITATION DEPARTMENT IF THERE ARE QUESTIONS ON THE WORK. THE DEPARTMENT WILL NOT SERVICE DUMPSTERS FROM PADS AND ENCLOSURES WHERE THE SUPERINTENDENT DETERMINES THE DEPARTMENT'S EMPLOYEES CANNOT DO SO IN A SAFE MANNER.

036 SAWING PAVEMENT: WHERE NECESSARY TO DISTURB PAVEMENT OR DRIVES, THE PAVEMENT SHALL BE SAW CUT IN NEAT, STRAIGHT LINES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR FURNISHING AND PLACING ASPHALT CONCRETE.

037 <u>SIDEWALKS:</u> ALL PUBLIC SIDEWALKS AND RAMPS CONSTRUCTED AS A PART OF THIS PROJECT SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES (ADA) ACT OF 1990, INCLUDING ALL SUPPLEMENTS THERETO. SIDEWALKS AND RAMPS SHALL BE CONSTRUCTED WITH A DESIGN CROSS-SLOPE OF 1:64 (1:56%) BUT SHALL NOT EXCEED 1:50 (2:00%). IN ALL DIRECTIONS, ALL LANDING AREAS SHALL BE A MINIMUM OF 4 FEET BY 4 FEET WITH A DESIGN SLOPE OF 1.56% THAT SHALL NOT EXCEED 1:50 (2.00%). CROSSWALK AREAS BETWEEN CURB RAMPS SHALL BE DESIGNED FOR A CROSS-SLOPE OF 1:64 (1.56%) BUT SHALL NOT EXCEED 1:50 (2.00%).

040 DEWATERING: ANY WELL, WELL POINT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AND THE WRITTEN APPROVAL OF THE CITY ENGINEER

ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF SOIL AND WATER RESOURCES. WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE. SECTION 1521.05. IF THE WATER REMOVAL DEVICE IS CAPABLE OF WITHDRAWING MORE THAN 100,000 GALLONS PER DAYS (FQUIVALENT TO 70 GALLONS PER MINUTE). THE CONTRACTOR SHALL FILE A WATER WITHDRAWAL FACILITY REGISTRATION FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES. DIVISION OF SOIL AND WATER RESOURCES IN ACCORDANCE WITH THE OHIO REVISED CODE, SECTION 1521.16.

FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER RESOURCES, 2045 MORSE ROAD, BUILDING B-3, COLUMBUS, OHIO 43229-6693, PHONE: (614) 265-6620

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE O.D.N.R. FOR THE REGISTRY, MAINTENANCE, AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN THE CONSTRUCTION OF THIS PROJECT.

**041** <u>WORK IN PUBLIC RIGHTS-OF-WAY:</u> NO WORK SHALL BEGIN WITHIN THE PUBLIC RIGHT-OF-WAY UNTIL AN APPROVED *RIGHT-OF-WAY CONSTRUCTION OCCUPANCY PERMIT* HAS BEEN OBTAINED FROM THE CITY. THE CONTRACTOR SHALL INCLUDE WITH HIS PERMIT APPLICATION HIS TRAFFIC CONTROL PLAN FOR WORKING IN THE RIGHT-OF-WAY THIS RESTRICTION INCLUDES BUT IS NOT LIMITED TO THE CLOSURE OF ANY STREET OR STREET LANES. THE CLOSURE OF ANY SIDEWALKS, AND THE PLACEMENT OF CONSTRUCTION EQUIPMENT, MATERIAL. TRAILERS AND/OR DEBRIS.

**042** BACKFILL: ALL BACKFILL OF TRENCHES WITHIN THE PAVEMENT INFLUENCE LINES, AS SPECIFIED BY STANDARD CONSTRUCTION DRAWING P-27, SHALL BE COMPACTED GRANULAR MATERIAL PER CMSL ITEM 912, UNLESS OTHERWISE SPECIFIED. ALL OTHER TRENCH BACKFILL SHALL BE COMPACTED BACKFILL PER CMSL ITEM

**043** CONSTRUCTION ENTRANCE: A MINIMUM OF FIVE (5) DAYS PRIOR TO BEGINNING WORK OR MOVING EQUIPMENT AND/OR MATERIALS ONTO THE SITE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEERING DEPARTMENT AN APPLICATION FOR A CURB CUT OR DRIVEWAY PERMIT FOR HIS CONSTRUCTION ENTRANCE. AL DELIVERIES AND ACCESS TO THE SITE SHALL BE RESTRICTED TO THE APPROVED CONSTRUCTION ENTRANCE. AT THE TIME THE APPLICATION IS REVIEWED, THE EXISTING CURBING WILL BE INSPECTED AND ANY CRACKS OR BREAKS WILL BE NOTED. ANY CURBING DAMAGED DURING THE PROJECT WILL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

THE CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING D-7 TO MINIMIZE THE TRACKING OF MUD. DIRT. STONES. AND OTHER DEBRIS FROM THE PROJECT SITE ONTO THE PUBLIC STREET. EXISTING CURBING REMOVED FOR THE PROJECT SHALL BE REPLACED PER CITY SPECIFICATIONS. DRIVE ENTRANCES ONTO THE PUBLIC STREET SHALL BE CONSTRUCTED IN CONFORMITY WITH STANDARDS AND SPECIFICATIONS OF THE CITY.

044 INSPECTIONS: VARIOUS ITEMS OF WORK ON THIS PROJECT WILL REQUIRE INSPECTIONS BY CITY PERSONNEL INSPECTIONS WILL BE REQUIRED ON, BUT NOT LIMITED TO, CURB CUTS AND DRIVE APPROACHES, GAS TAPS AND LINE, WATER TAPS AND LINES, SANITARY SEWER TAPS AND LINE, STORM SEWER TAPS AND LINE, STORMWATER DETENTION OR RETENTION FACILITIES, AND DUMPSTER PADS AND ENCLOSURES. INSPECTIONS SHALL BE REQUESTED NO LESS THAN 48 HOURS IN ADVANCE. INSPECTIONS WILL ONLY BE PERFORMED MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS, BETWEEN 7:30 A.M. AND 3:30 P.M. FAILURE TO OBTAIN A REQUIRED INSPECTION SHALL BE CAUSE FOR THE CITY TO DENY SERVICE TO THE FACILITY.

### SERIES 100: GENERAL NOTES ON EROSION CONTROL

102 EROSION AND SEDIMENTATION CONTROL: THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SOIL EROSION, SILTING AND SEDIMENTATION RESULTING FROM HIS/HER OPERATIONS. IT SHALL BE THE OBJECTIVE OF THE CONTRACTOR TO CONTAIN EROSION. SILTING AND SEDIMENTATION TO THE PROJECT SITE INSOFAR AS PRACTICAL. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS AND/OR ADJOINING PROPERTIES. IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE DISTURBED AREAS HAVE BEEN STABILIZED. THE ENGINEER MAY REQUIRE ADDITIONAL ACTIVITIES WHEN AND WHERE THE WORK AS SET FORTH IN THE STORM WATER POLLUTION PREVENTION PLAN IS NOT SUFFICIENT TO CONTROL THE EFFECTS OF EROSION, SILTING, AND/OR SEDIMENTATION IN CONFORMANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM CONSTRUCTION STORM WATER GENERAL PERMIT

ALL REASONARI E ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND

EACH SEDIMENT AND EROSION CONTROL MEASURE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS TO DETERMINE IF THE MEASURE IS FUNCTIONING AS REQUIRED. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.

FIELD ADJUSTMENT FOR LOCATION AND DIMENSION OF SEDIMENT CONTROL DEVICES MAY BE MADE AS REQUIRED. WITH THE APPROVAL OF THE CITY'S STORMWATER INSPECTOR. THE CITY OF LANCASTER ALSO RESERVES THE RIGHT TO REQUIRE ADDITIONS OR ALTERATIONS TO THE SEDIMENT CONTROL DEVICES SHOWN IN THE PLANS WHEN THEY ARE DEEMED INADEQUATE BY THE CITY'S STORMWATER INSPECTED

EROSION CONTROL DEVICES REMOVED DURING GRADING OPERATIONS SHALL BE PUT BACK IN PLACE AT THE END OF THE DAY OR DURING INCLEMENT WEATHER.

TOPSOIL SHOULD BE REMOVED AND STOCKPILED FROM ALL WORK AREAS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IMMEDIATELY AFTER CONSTRUCTION OF DITCHES AND/OR BASE PAVING OF STREETS, TOPSOIL FROM THE STOCKPILE SHALL BE SPREAD OVER THE EXPOSED AREAS AND GRADED AS REQUIRED TO PREPARE AREAS FOR PERMANENT SEEDING. APPLICATION OF PERMANENT SEEDING, AGRICULTURAL LINE, FERTILIZER, AND MULCHING MATERIAL SHALL BE AS PER THE PERTINENT 659 ITEMS.

IF SHOWN ON THIS PLAN, ENERGY DISSIPATION DEVICES OR EROSION CONTROL MEASURES AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL.

AREAS WITHIN FIFTY (50) FEET OF A STREAM SHALL NOT BE DISTURBED UNLESS SPECIFICALLY PERMITTED IN THE PLANS NO SOIL ROCK DEBRIS OR ANY OTHER SUCH MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE, OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE, UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER AND, WHEN APPLICABLE, THE U.S. ARMY CORPS OF ENGINEERS FOR SUCH PURPOSED AS, BUT NOT LIMITED TO, THE CONSTRUCTION OF BRIDGES, CULVERTS. AND EROSION CONTROL STRUCTURES.

SEEDING SHOULD BE APPLIED THE SAME DAY THAT GRADING OPERATIONS ARE COMPLETE. ALL CONSTRUCTED SLOPES AND CUTS SHALL BE SEEDED AS EACH VERTICAL INTERVAL OF NO MORE THAN TEN (10) FEET IS COMPLETED. THE CONTRACTOR SHALL IRRIGATE OR WATER AS NECESSARY TO ESTABLISH A HEALTHY, EROSION RESISTANT COVER CROP OR GRASS STAND.

SEEDING AND MULCHING PER 659 SHALL BE IMMEDIATELY APPLIED. IF AN UNFORESEEN DELAY IS ENCOUNTERED. THE CONTRACTOR SHALL BEGIN SEEDING AND MULCHING IMMEDIATELY WHEN RECOGNIZED.

WHEN GRADING OPERATIONS SHALL CEASE FOR A PERIOD OF FOURTEEN (14) DAYS OR MORE TEMPORARY

IF CONSTRUCTION TAKES PLACE FROM OCTOBER 1 TO FEBRUARY 28, ALL EXPOSED AREAS ARE TO BE TEMPORARILY MULCHED UNTIL MARCH 1 AND THEN PERMANENTLY SEEDED AS PREVIOUSLY SPECIFIED. MULCHING SHALL BE APPLIED AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET. IT SHALL BE ANCHORED WITH LIQUID ASPHALT RAPID CURING (R.C. 70, 250 OR 800) AT A RATE OF 0.04 GALLONS PER SQUARE YARD. WHEN APPLIED DURING FREEZING WEATHER IT SHALL BE CUT BACK WITH A KEROSENE LIKE PRODUCT. IN AREAS WHERE RUNOFF WATER IS CONCENTRATED, MULCH NETTINGS OF JUTE, BIO DEGRADABLE SYNTHETIC MATERIALS OR LIGHT\_WEIGHT PAPER SHALL BE USED TO HOLD THE MULCH IN PLACE. SUBSTITUTE ANCHORING METHODS MAY BE USED SUCH AS STRAIGHT DISK OR NOTCHED DISK TO TUCK THE STRAW INTO THE SEEDBED THREE (3) INCHES HORIZONTAL TO THE SLOPE.

IN ADDITION TO THE ABOVE DESCRIBED WORK, THE CONSTRUCTION DRAWINGS OR CONTRACT DOCUMENTS MAY CONTAIN OTHER NOTES, CONTINGENCY QUANTITIES OR CONSTRUCTION AND MATERIAL SPECIFICATION THAT SET FORTH OTHER EROSION CONTROL WORK TO BE PERFORMED ON THE PROJECT. IN SUCH CASES, THE OTHER WORK SHALL BE PERFORMED IN ADDITION TO THE WORK DESCRIBED ABOVE.

THE ABOVE WORK, WHERE NOT SPECIFICALLY ITEMIZED IN THE QUANTITIES, SHALL BE CONSIDERED INCIDENTAL TO THE EARTHWORK AND SEEDING WORK AS SET FORTH IN THE PLANS AND THE COST OF MATERIALS, LABOR AND EQUIPMENT SHALL BE INCLUDED IN THE UNIT PRICES BID FOR EARTHWORK AND SEEDING AND MULCHING. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY (30)

DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF NATURAL

RESOURCE'S RAINWATER AND LAND DEVELOPMENT MANUAL, LATEST EDITION IN FORCE AT THE TIME OF THE BID

105 DUST CONTROL: THE CONTRACTOR IS ADVISED THAT HIS WORK WILL BE IN CLOSE PROXIMITY TO OCCUPIED RESIDENCES AND BUSINESSES AND SHALL MAKE ALL REASONABLE EFFORTS TO PERFORM THE EARTHWORK OPERATIONS IN A MANNER TO MINIMIZE DUST. WHEN, IN THE ENGINEER'S DETERMINATION, DUST IS A PROBLEM, THE CONTRACTOR SHALL APPLY A DUST PALLIATIVE PER ITEM 616.

### SERIES 300: GENERAL NOTES ON MAINTENANCE OF TRAFFIC

301 TRAFFIC CONTROL: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN TRAFFIC WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL ERECT, MAINTAIN AND REMOVE THE NECESSARY TRAFFIC CONTROL DEVICES, BARRICADES, FLAGMEN, AND LIGHTS TO SAFELY MAINTAIN TRAFFIC AROUND HIS OPERATIONS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE <u>OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES</u> AND THE CITY OF LANCASTER'S <u>TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE</u>

IN NO CASE SHALL THE STIPULATIONS OF THESE TRAFFIC CONTROL NOTES WAIVE THE REQUIREMENTS OF EITHER THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OR THE OHIO MANUAL OF UNIFORM TRAFFIC

309 STREET AND LANE CLOSINGS: NO STREET OR PART OF ANY STREET, INCLUDING THE SIDEWALK, SHALL BE PERMITTED TO BE CLOSED WITHOUT AN APPROVED RIGHT-OF-WAY CONSTRUCTION OCCUPANCY PERMIT FROM THE SERVICE-SAFETY DIRECTOR. THE CONTRACTOR SHALL SUBMIT HIS REQUEST, ALONG WITH A PLAN OF THE PROPOSED DETOUR ROUTE AND MAINTENANCE OF TRAFFIC PLAN, A MINIMUM OF SEVENTY-TWO (72) HOURS BEFORE THE ACTUAL CLOSING, WEEKENDS AND HOLIDAYS EXCLUDED. THERE IS NO FEE FOR THIS PERMIT.

IF THE CLOSING IS APPROVED. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND SUPERINTENDENT. DEPARTMENT OF TRANSPORTATION A MINIMUM OF FOUR (4) HOURS BEFORE HE IMPLEMENTS THE ACTUAL CLOSING. THE CONTRACTOR SHALL ALSO NOTIFY ANY AFFECTED RESIDENTS OR BUSINESSES PRIOR TO THE CLOSING AS TO THE EXTENT, NATURE, AND DURATION OF THE CLOSURE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC

THE LENGTH AND DURATION OF LANE. STREET, AND/OR SIDEWALK CLOSURES SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

### SERIES 600: GENERAL NOTES ON DRAINAGE

601 SPRING DRAINS: ALL SPRINGS ENCOUNTERED DURING EXCAVATION SHALL BE DRAINED TO AN OUTLET APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL PERFORM THIS WORK ONLY AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT ORDER MATERIALS FOR THIS WORK UNTIL DIRECTED BY THE ENGINEER, AND IN THE EVENT NO SPRINGS ARE ENCOUNTERED, THE ITEM SHALL BE NON-PERFORMED.

602 DRAIN TILE: ALL DRAIN TILE FOUND DURING CONSTRUCTION ACTIVITIES SHALL BE REPORTED TO THE CITY ENGINEER. ANY DRAIN TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ITS ORIGINAL CONDITION, CONNECTED EITHER TO CURB UNDERDRAIN OR STORM SEWER SYSTEM, OR BE DIRECTED TO AN UNOBSTRUCTED OUTLET WITH THE INSTALLATION OF NEW UNDERDRAIN. AS APPROVED BY THE CITY ENGINEER. THE CITY ENGINEER MAY REQUIRE, AT HIS OPTION, TO CONNECT ANY OR ALL DRAIN TILE FOUND ON THIS PROJECT TO OTHER TILE. A STORM SEWER OR TO AN UNOBSTRUCTED OUTLET.

IN NO CASE SHALL THE DRAIN BE CONNECTED TO A SANITARY SEWER OR ALLOWED TO FLOW ONTO A PUBLIC

### **SERIES 800: GENERAL NOTES WATER LINES**

**801** <u>WATERLINE INSTALLATION:</u> IN ADDITION TO THE REQUIREMENTS IN CMSL, ALL WATERLINES AND APPURTENANCES SHALL BE INSTALLED IN CONFORMITY WITH THE CITY OF LANCASTER STANDARD CONSTRUCTION DRAWINGS (COL SCD) AND OHIO EPA REGULATIONS. THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S "CUT SHEETS" TO THE DISTRIBUTION MANAGER, DIVISION OF WATER FOR ALL WATERLINE ITEMS/MATERIALS PRIOR TO PURCHASING THOSE ITEMS/MATERIALS. ANY INSTALLATION OF NON-APPROVED ITEMS/MATERIALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL WATER LINE WORK SHALL BE INSPECTED BY DIVISION OF WATER PERSONNEL AND NOT BACKFILLED UNTIL APPROVED. NO VALVES CONNECTING THE CONTRACTOR'S WORK TO THE PUBLIC WATER DISTRIBUTION SYSTEM SHALL BE OPENED UNTIL THE WATERLINE AND APPURTENANT WORK HAS BEEN APPROVED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER.

802 <u>HAND SWABBING</u>: THE CONTRACTOR SHALL HAND SWAB ALL PIPE AND FITTINGS THAT ARE NOT OTHERWISE DISINFECTED. THE AMOUNT OF CHLORINE TO BE USED DURING HAND SWABBING OPERATIONS WILL BE DETERMINED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER.

804 WATER MAIN AND SERVICE LOCATION: ALL EXISTING WATER MAINS SHOWN ON THE PLANS WERE OBTAINED BY DILIGENT SEARCHES OF EXISTING RECORDS AND FIELD OBSERVATIONS. LOCATIONS AND ELEVATIONS ARE APPROXIMATE ONLY. ALL INDIVIDUAL SERVICE LINES MAY NOT BE SHOWN AND SHOULD BE LOCATED BY THE CONTRACTOR PRIOR TO EXCAVATION. CALL 740-687-6631 IF ASSISTANCE IS NEEDED IN LOCATING THESE

811 DISINFECTION: ALL WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBSEQUENT BACTERIAL TESTING OF THE PROJECT'S WATERLINES BEFORE OPENING THE NEW LINES TO THE CITY'S DISTRIBUTION SYSTEM. WATER SAMPLES SHALL BE TAKEN AS DIRECTED BY THE DISTRIBUTION MANAGER. DIVISION OF WATER. TESTING SHALL BE PERFORMED AT AN OHIO EPA APPROVED LABORATORY. THE LABORATORY SHALL PROVIDE A CERTIFIED REPORT OF THE TEST RESULTS TO THE DISTRIBUTION MANAGER, DIVISION OF WATER.

812 <u>WATER LINE DEPTH:</u> WATER LINES SHALL BE LAID WITH A MINIMUM OF 4'-6" DEPTH FROM THE TOP OF FINISHED GRADE (CURB) TO THE TOP OF THE WATER LINE.

813 CONNECTING WATERLINES: THE CONNECTION OF EXISTING WATERLINES AND SERVICES TO PROPOSED WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING A DISCONNECTION AND RECONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 10:00 P.M. AND 5:00 A.M. OR AS DIRECTED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER. THE CONTRACTOR SHALL PROVIDE THE DISTRIBUTION MANAGER, DIVISION OF WATER WITH THE METHOD AND SCHEDULE OF SUCH WORK FOR APPROVAL. UPON APPROVAL OF THE METHOD AND SCHEDULE, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE LANCASTER FIRE DEPARTMENT AND THE RESIDENTS WHOSE SERVICES ARE BEING AFFECTED BEFORE BEGINNING WORK.

### **SERIES 900: GENERAL NOTES ON SEWERS**

901 <u>SERVICE CONNECTIONS</u>: SERVICES OR HOUSE CONNECTIONS SHALL NOT BE CONNECTED TO THE LATERAL OR MAIN LINE SEWERS SHOWN HEREON UNTIL FULL APPROVAL OF SAID LATERAL OR MAIN LINE SEWER HAS BEEN

202 MANHOLE LOCATIONS: THE STATION AND OFFSET OF THE MANHOLES SHOWN ON THE PLANS ARE TO THE

104 <u>Backfill</u>: Backfill for all main line sewers and/or services under the pavement and within the NFLUENCE LINES FOR SUPPORT OF THE PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CMSL ITEM 912. BACKFILL OUTSIDE THE INFLUENCE LINES FOR SUPPORT OF THE PAVEMENT SHALL BE COMPACTED TO THE FULL WIDTH OF THE TRENCH TO MEET REQUIREMENTS OF CMSL ITEM 911. PAYMENT FOR THIS WORK SHALL BE INCLUDED WITH THE ITEM BID FOR FURNISHING AND INSTALLING PIPE.

**05** CONNECTION TO EXISTING PIPE: WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED O, OR TO CROSS EITHER OVER OR UNDER AN EXISTING CONDUIT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING CONDUIT BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE ITEMS BID FOR FURNISHING AND INSTALLING PIPE.

906 CONNECTIONS TO EXISTING STRUCTURES: WHERE NEW SEWERS ARE CONNECTED TO EXISTING STRUCTURES (MANHOLES, CATCH BASINS, ETC.), THE CONTRACTOR SHALL CORE DRILL ANY NEW OPENINGS INTO THE EXISTING STRUCTURE BY A METHOD APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL CLEAN THE STRUCTURE OF ALL DEBRIS BEFORE MAKING THE CONNECTION. THE CONTRACTOR SHALL CONSTRUCT A SEMI-CIRCULAR, CONCRETE CHANNEL TO THE NEW PIPE TO PROVIDE SMOOTH, UNINTERRUPTED FLOW THROUGH THE STRUCTURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE ITEM BID FOR FURNISHING AND

907 <u>SANITARY SEWER\_MANHOLE CONNECTIONS</u>: THE SANITARY SEWER PIPE TO MANHOLE CONNECTIONS SHALL BE OF A FLEXIBLE WATERTIGHT JOINT OF APPROVED MANUFACTURE. THE JOINT SHALL BE A RUBBER SLEEVE WITH STAINLESS STEEL BANDING. A-LOCKS ARE NOT ACCEPTABLE

PAYMENT FOR THIS WORK AND MATERIALS SHALL BE INCLUDED IN THE ITEM BID FOR FURNISHING AND INSTALLING PIPE. IF NO PIPE IS BEING INSTALLED, IT SHALL BE INCLUDED IN THE ITEM BID FOR FURNISHING AND INSTALLING MANHOLES.

908 PROHIBITION OF CLEAN WATER CONNECTIONS TO SANITARY SEWERS: ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED IN THE CITY OF LANCASTER. WHERE SANITARY SEWER WORK IS EXPOSED TO STORM WATER FLOWS OR OTHER CLEAN WATER SOURCES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT STORM OR OTHER CLEAN WATER FLOW FROM ENTERING THE SANITARY SEWER SYSTEM, INCLUDING, BUT NOT LIMITED TO, THE PLUGGING OF ALL OPEN SEWER PIPE AND/OR OTHER OPENINGS AT THE END OF EACH WORK DAY.

911 SEWER INSPECTIONS: PIPE LAYING AND BACKFILL SHALL BE PERFORMED IN ACCORDANCE WITH PERTINENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF LANCASTER AND CITY OF LANCASTER STANDARD CONSTRUCTION DRAWINGS. BACKFILLING OPERATIONS SHALL NOT BEGIN UNTIL THIS WORK HAS BEEN INSPECTED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. THIS INSPECTION PRIOR TO THE BACKFILLING OPERATION DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE LEAKAGE TESTS. INSPECTIONS MUST BE REQUESTED TWENTY\_FOUR (24) HOURS IN ADVANCE. INSPECTIONS WILL ONLY BE PERFORMED ON WEEK\_DAYS BETWEEN 7:30 A.M. AND 3:30 P.M. EXCLUDING CITY HOLIDAYS. REQUESTS FOR INSPECTIONS ON WEEKENDS OR HOLIDAYS MUST BE SUBMITTED IN WRITING FORTY\_EIGHT (48) HOURS IN ADVANCE. REQUESTS MUST STATE THE SPECIAL CIRCUMSTANCES WARRANTING THE INSPECTION.

912 PROFILE: PROFILE IS SHOWN ALONG SEWER CENTERLINE. PROFILES ARE NOT SHOWN ON ALL INLET CONNECTOR SEWERS.

913 TOP OF CASTING ELEVATIONS: THE ELEVATIONS SHOWN ON THE PLANS FOR TOP OF CASTING OF PROPOSED STRUCTURES MATCHES THE EXISTING OR PROPOSED PAVEMENT SURFACE. IN AREAS WHERE THE PAVEMENT IS TO BE RESURFACED THE TOP OF CASTING SHALL MATCH THE SURFACE OF THE RESURFACED PAVEMENT.

915 PLUGS: PLUGS. WHERE SHOWN ON THE PLANS OR ORDERED BY THE ENGINEERS. SHALL BE 12" IN THICKNESS AND MADE OF BRICK MASONRY. THE EXTERIOR FACE OF THE PLUG SHALL BE PLASTERED WITH A 1/2" COAT OF

WILL COMPLETE ANY PORTION OF THE SEWER CONSTRUCTION STARTED, (INCLUDING MANHOLES, INLETS, CATCH BASINS CONNECTIONS AND PLUGGING OF LINES) TO INSURE PROPER OPERATION AT ALL TIMES REGINNING AT THE OUTLET END OF ANY PIPE. ANY FAILURE OF THE CONTRACTOR TO COMPLY WITH THE ABOVE PROVISIONS WILL BE REASON FOR THE ENGINEER TO SUSPEND WORK UNTIL THE CONDITIONS ARE MET. 917 EXISTING SEWERS AND STRUCTURES: THE CONTRACTOR SHALL REPLACE TO THE SATISFACTION OF THE

916 SEQUENCE OF OPERATIONS: THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A WAY THAT HE

ENGINEER ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS AND APPURTENANCES REMOVED OR DAMAGED DURING CONSTRUCTION. THE ABOVE IS NOT APPLICABLE TO STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM EXISTING MANHOLES AND CATCH BASINS AND VARIOUS SEWER PIPES WHICH ARE CONNECTED IN THE NEW SYSTEM.

918 EXISTING SEWAGE FLOWS: THE CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN FLOWS IN THE EXISTING SEWER AT ALL TIMES DURING CONSTRUCTION. METHODS FOR MAINTAINING FLOWS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION, AT NO TIME WILL SANITARY SEWAGE BE ALLOWED TO DISCHARGE TO ANY RIVER OR STREAM NOR SPILL OUT ON THE GROUND. APPROVAL OF PLANS BY THE ENGINEE TO MAINTAIN FLOWS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO ADEQUATELY PROVIDE FOR ALL FLOWS.

THE CONTRACTOR SHALL BE AWARE THAT THE EXISTING SEWERS MAY BE OPERATING UNDER PRESSURE (HEAD) DURING TIMES OF RAINFALL: THEREFORE THE CONTRACTOR SHALL EXERCISE CALITION WHEN WORKING ON THESE SEWERS. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE ITEM BID FOR FURNISHING AND INSTALLING PIPE.

921 <u>UNRECORDED SANITARY CONNECTIONS:</u> ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SEWER, AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE UNIT BID FOR FURNISHING AND INSTALLING SANITARY HOUSE CONNECTION SERVICE.

### PERMIT 04-05-2021

RAS CIVIL ENGINEERING, LLC CIVIL ENGINEERING & SURVEYING SERVICES P.O. BOX 114 • AMLIN, OHIO • 43002 614-581-8504 • RI CK\_SI CKER@ATT.NET

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REVISIONS

Plans Prepared By:

IMP. ACCT. NO. \_\_\_\_\_ CONTRACT NO\_ COMPLETION DATE. CONTRACTOR \_

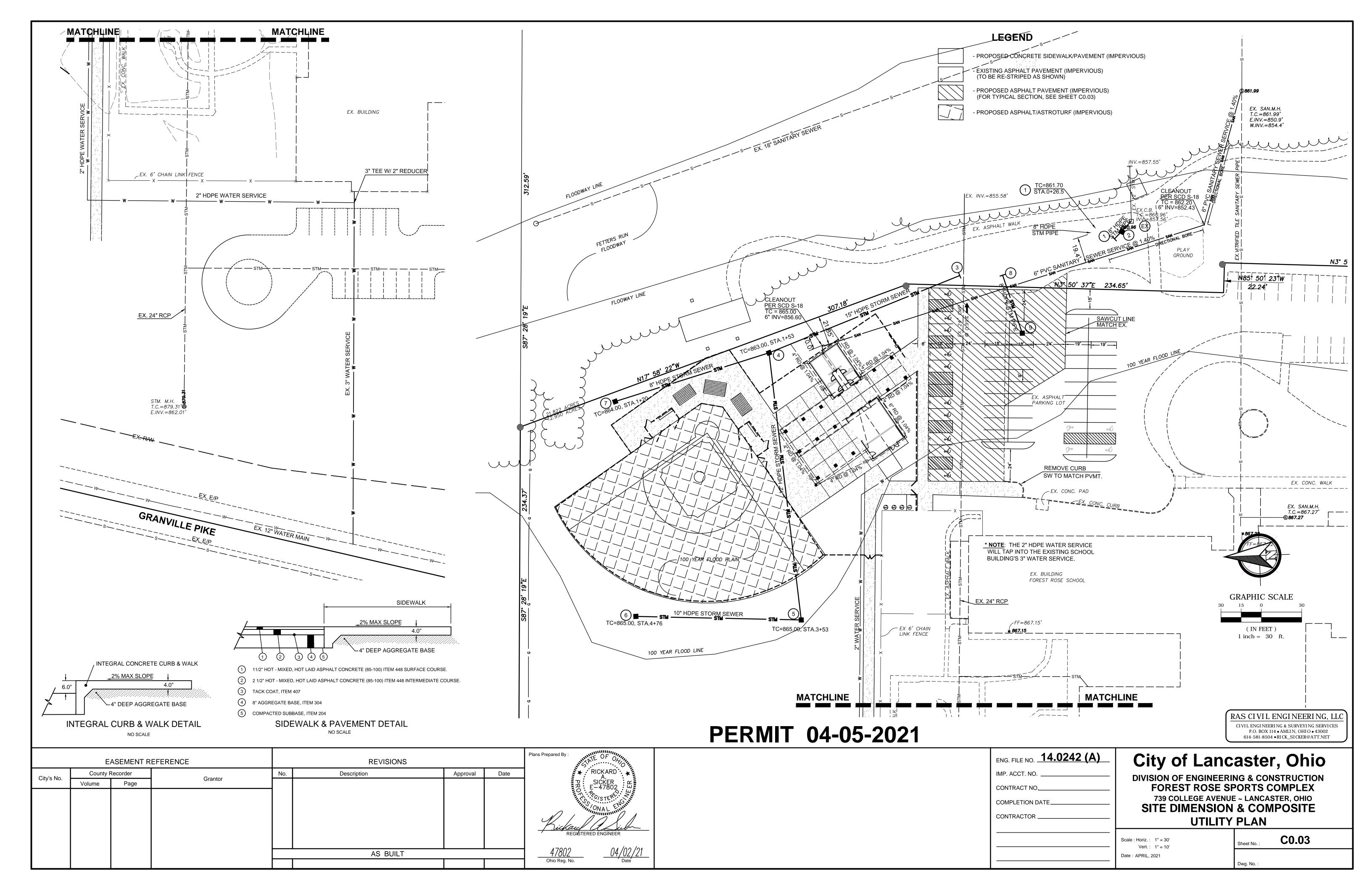
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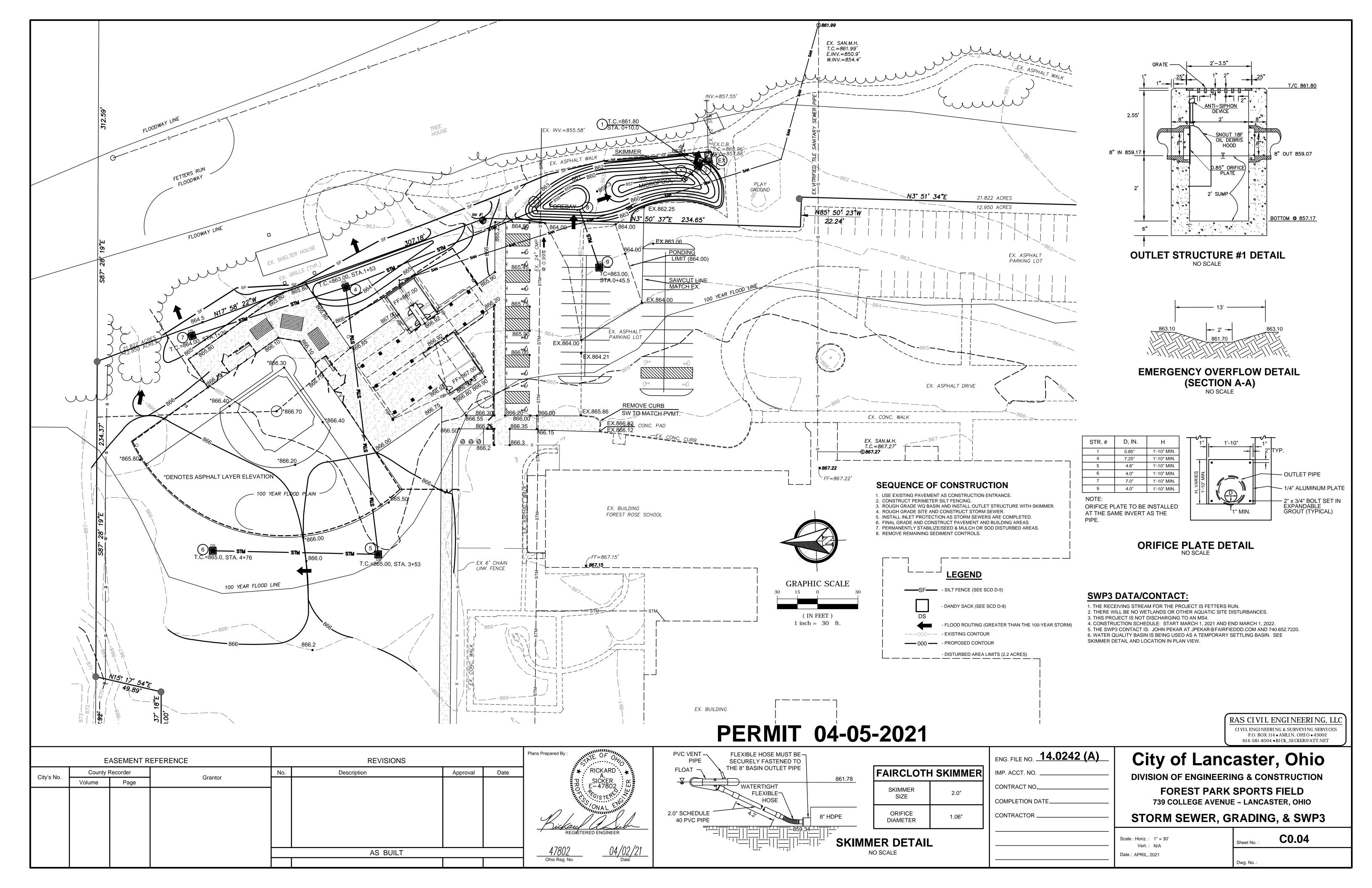
> 739 COLLEGE AVENUE ~ LANCASTER, OHIO **GENERAL NOTES**

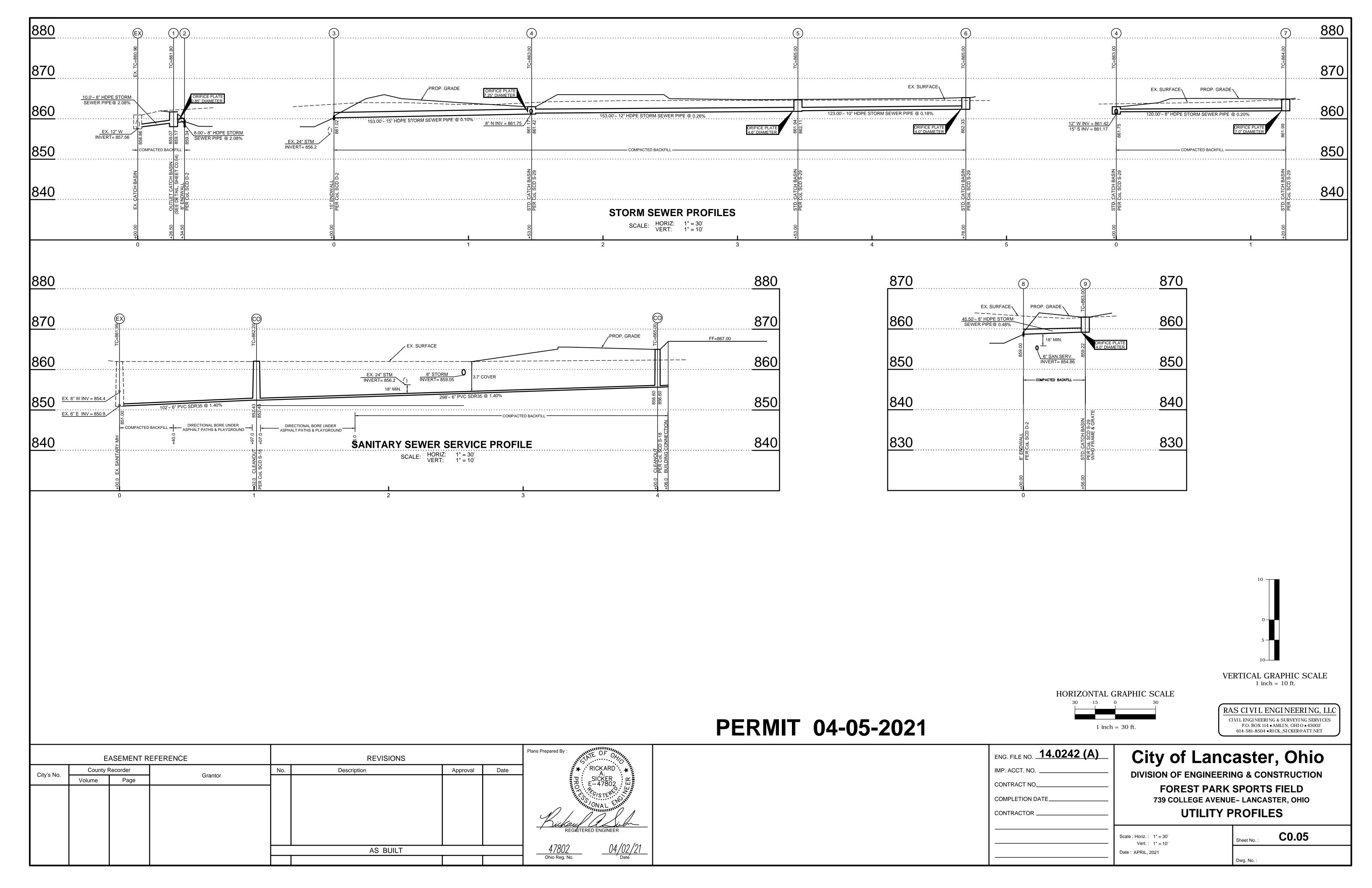
FOREST ROSE SPORTS COMPLEX

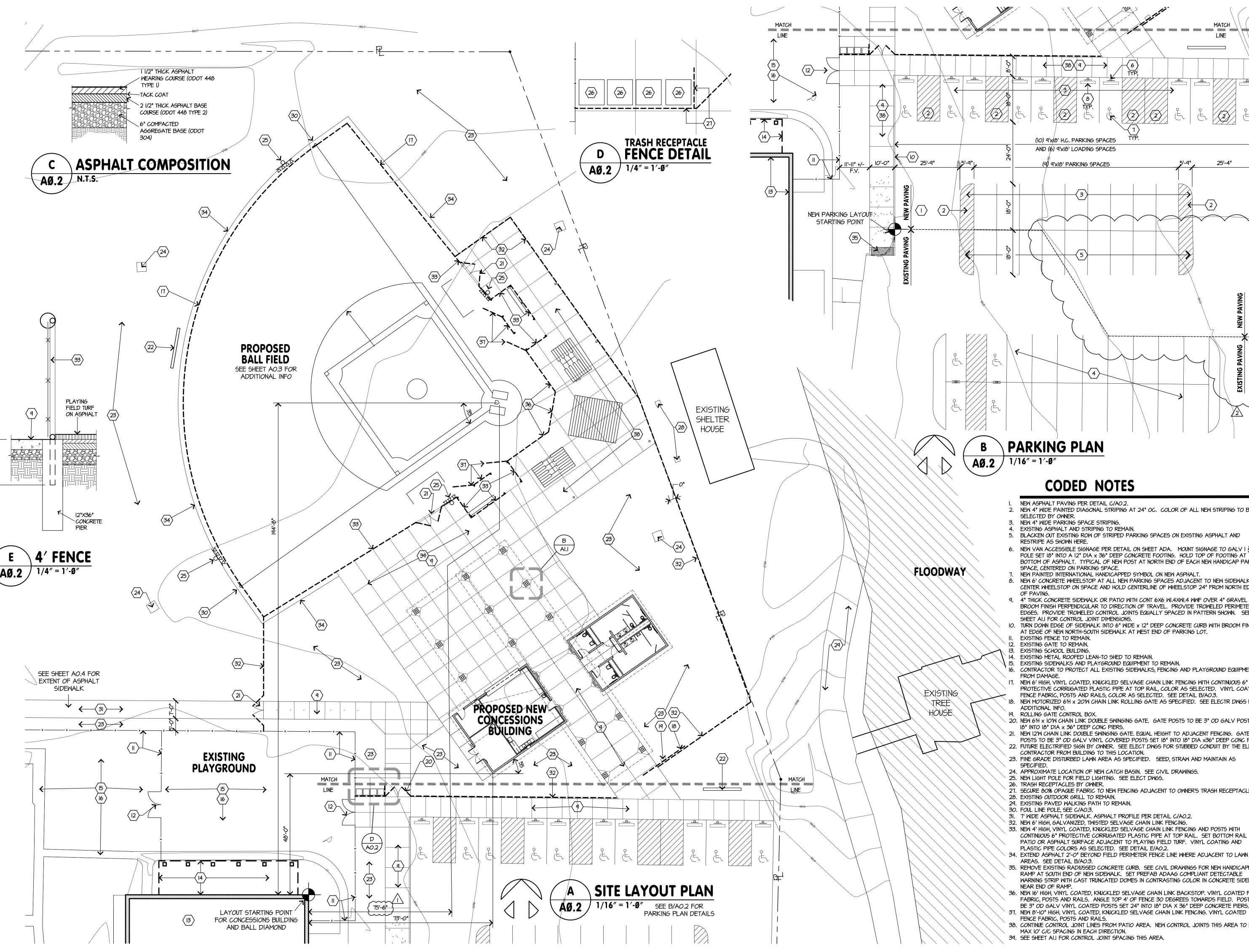
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# **AND PARK** COMPLEX SPORTS ACCESSIBLE TITI

AT

LINE

25'-4"

NEW ASPHALT PAVING PER DETAIL C/AO.2. 2. NEW 4" WIDE PAINTED DIAGONAL STRIPING AT 24" OC. COLOR OF ALL NEW STRIPING TO BE

3. NEW 4" WIDE PARKING SPACE STRIPING.

4. EXISTING ASPHALT AND STRIPING TO REMAIN.

5. BLACKEN OUT EXISTING ROW OF STRIPED PARKING SPACES ON EXISTING ASPHALT AND RESTRIPE AS SHOWN HERE.

6. NEW VAN ACCESSIBLE SIGNAGE PER DETAIL ON SHEET ADA. MOUNT SIGNAGE TO GALV I  $\frac{1}{2}$ " POLE SET 18" INTO A 12" DIA x 36" DEEP CONCRETE FOOTING. HOLD TOP OF FOOTING AT BOTTOM OF ASPHALT. TYPICAL OF NEW POST AT NORTH END OF EACH NEW HANDICAP PARKING SPACE, CENTERED ON PARKING SPACE.

NEW PAINTED INTERNATIONAL HANDICAPPED SYMBOL ON NEW ASPHALT. 8. NEW 6' CONCRETE WHEELSTOP AT ALL NEW PARKING SPACES ADJACENT TO NEW SIDEWALK. CENTER WHEELSTOP ON SPACE AND HOLD CENTERLINE OF WHEELSTOP 24" FROM NORTH EDGE

9. 4" THICK CONCRETE SIDEWALK OR PATIO WITH CONT 6X6 WI.4XWI.4 WWF OVER 4" GRAVEL BASE. BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL. PROVIDE TROWELED PERIMETER EDGES. PROVIDE TROWELED CONTROL JOINTS EQUALLY SPACED IN PATTERN SHOWN. SEE

IO. TURN DOWN EDGE OF SIDEWALK INTO 6" WIDE x 12" DEEP CONCRETE CURB WITH BROOM FINISH AT EDGE OF NEW NORTH-SOUTH SIDEWALK AT WEST END OF PARKING LOT.

12. EXISTING GATE TO REMAIN.

14. EXISTING METAL ROOFED LEAN-TO SHED TO REMAIN.

15. EXISTING SIDEWALKS AND PLAYGROUND EQUIPMENT TO REMAIN.

16. CONTRACTOR TO PROTECT ALL EXISTING SIDEWALKS, FENCING AND PLAYGROUND EQUIPMENT

17. NEW 6' HIGH, VINYL COATED, KNUCKLED SELVAGE CHAIN LINK FENCING WITH CONTINUOUS 6" PROTECTIVE CORRUGATED PLASTIC PIPE AT TOP RAIL, COLOR AS SELECTED. VINYL COATED

`18. NEW MOTORIZED 6'H x 20'W CHAIN LINK ROLLING GATE AS SPECIFIED. SEE ELECTR DWGS FOR

19. ROLLING GATE CONTROL BOX.

20. NEW 6'H x 10'W CHAIN LINK DOUBLE SWINGING GATE. GATE POSTS TO BE 3" OD GALV POSTS SET

18" INTO 18" DIA x 36" DEEP CONC PIERS. 21. NEW 12'W CHAIN LINK DOUBLE SWINGING GATE. EQUAL HEIGHT TO ADJACENT FENCING. GATE

POSTS TO BE 3" OD GALY VINYL COVERED POSTS SET 18" INTO 18" DIA x36" DEEP CONC PIERS. 22. FUTURE ELECTRIFIED SIGN BY OWNER. SEE ELECT DWGS FOR STUBBED CONDUIT BY THE ELECT

CONTRACTOR FROM BUILDING TO THIS LOCATION. 23. FINE GRADE DISTURBED LAWN AREA AS SPECIFIED. SEED, STRAW AND MAINTAIN AS

24. APPROXIMATE LOCATION OF NEW CATCH BASIN. SEE CIVIL DRAWINGS.

25. NEW LIGHT POLE FOR FIELD LIGHTING. SEE ELECT DWGS.

26. TRASH RECEPTACLES BY OWNER. 27. SECURE 80% OPAQUE FABRIC TO NEW FENCING ADJACENT TO OWNER'S TRASH RECEPTACLES.

28. EXISTING OUTDOOR GRILL TO REMAIN.

29. EXISTING PAVED WALKING PATH TO REMAIN.

30. FOUL LINE POLE, SEE C/AO.3.

32. NEW 6' HIGH, GALVANIZED, TWISTED SELVAGE CHAIN LINK FENCING. 33. NEW 4' HIGH, VINYL COATED, KNUCKLED SELVAGE CHAIN LINK FENCING AND POSTS WITH CONTINUOUS 6" PROTECTIVE CORRUGATED PLASTIC PIPE AT TOP RAIL. SET BOTTOM RAIL ON

PLASTIC PIPE COLORS AS SELECTED. SEE DETAIL E/AO.2. 34. EXTEND ASPHALT 2'-O" BEYOND FIELD PERIMETER FENCE LINE WHERE ADJACENT TO LAWN

AREAS. SEE DETAIL B/AO.3. 35. REMOVE EXISTING RADIUSSED CONCRETE CURB. SEE CIVIL DRAWINGS FOR NEW HANDICAPPED RAMP AT SOUTH END OF NEW SIDEWALK. SET PREFAB ADAAG COMPLIANT DETECTABLE WARNING STRIP WITH CAST TRUNCATED DOMES IN CONTRASTING COLOR IN CONCRETE SIDEWALK

36. NEW 16' HIGH, VINYL COATED, KNUCKLED SELVAGE CHAIN LINK BACKSTOP. VINYL COATED FENCE

FABRIC, POSTS AND RAILS. ANGLE TOP 4' OF FENCE 30 DEGREES TOWARDS FIELD. POSTS TO BE 3" OD GALV VINYL COATED POSTS SET 24" INTO 18" DIA X 36" DEEP CONCRETE PIERS.

38. CONTINUE CONTROL JOINT LINES FROM PATIO AREA. NEW CONTROL JOINTS THIS AREA TO BE AT

MAX IO' C/C SPACING IN EACH DIRECTION. 39. SEE SHEET AI.I FOR CONTROL JOINT SPACING THIS AREA. Copyright ~ 2021
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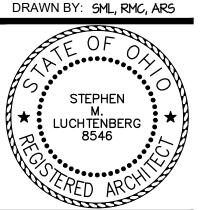
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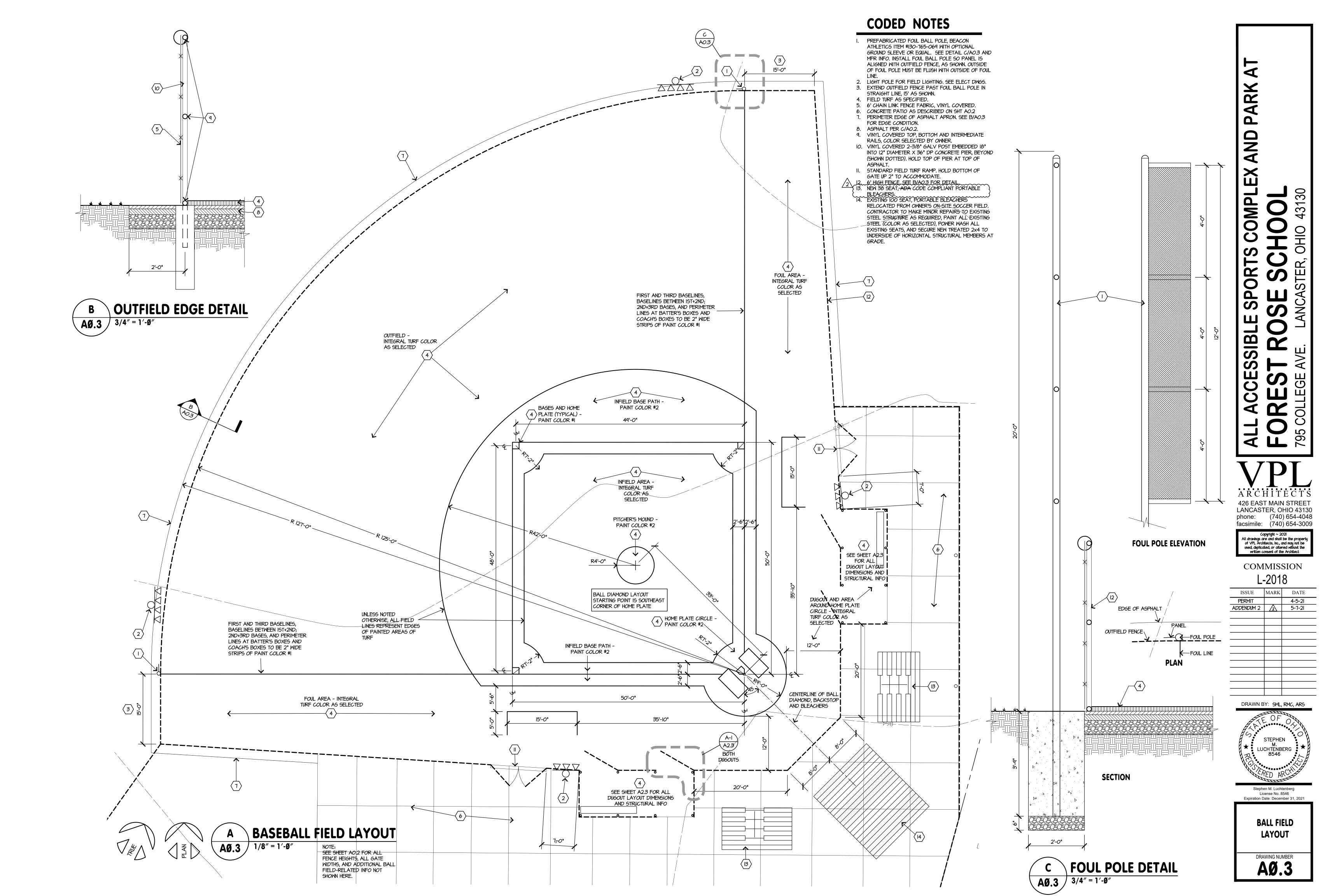
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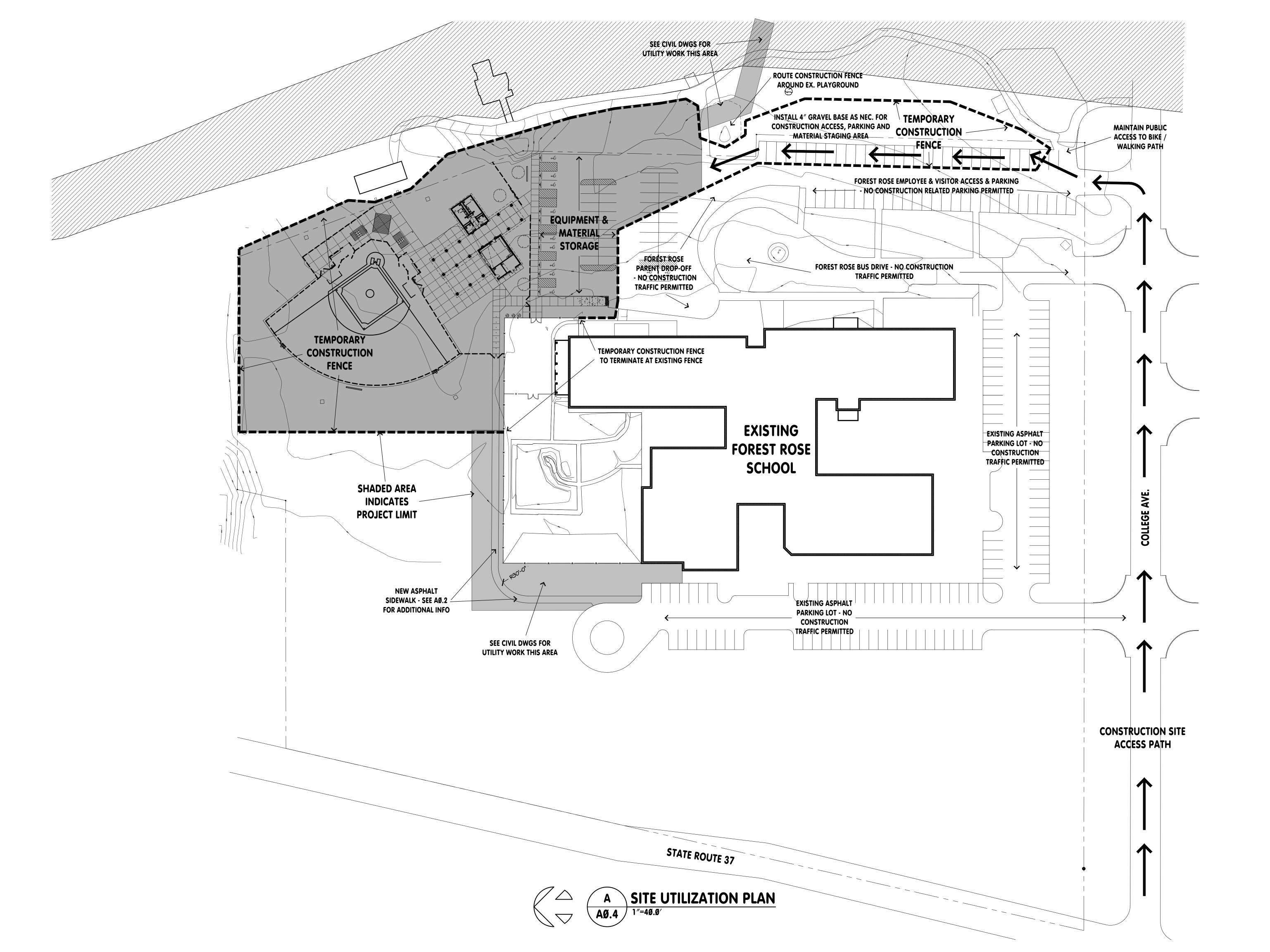
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ARCHITECTURAL SITE PLAN





# ALL ACCESSIBLE SPORTS COMPLEX AND PARK AT FOREST ROSE SCHOOL

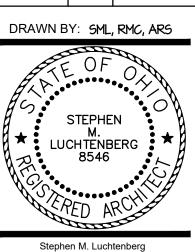
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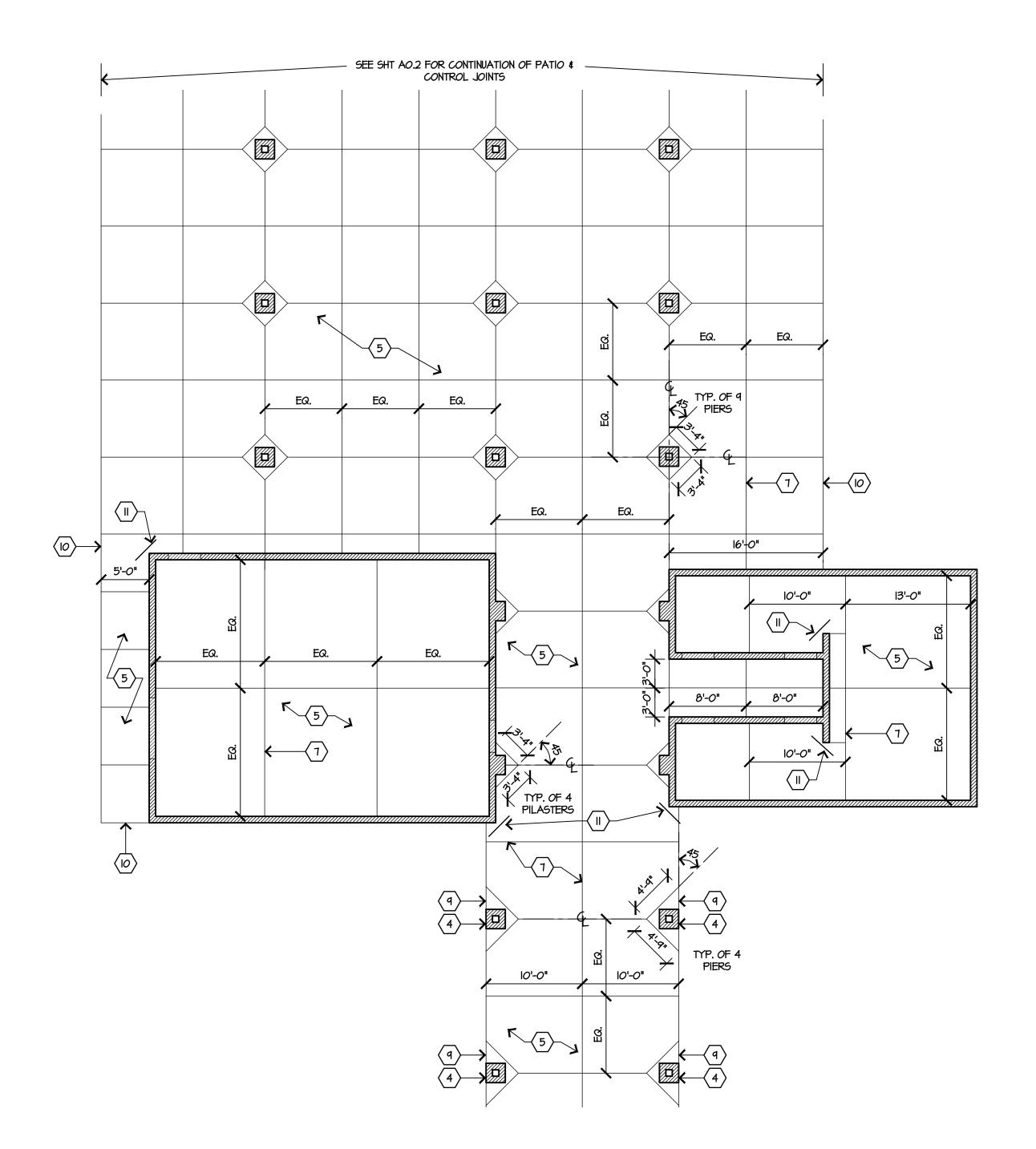
COMMISSION

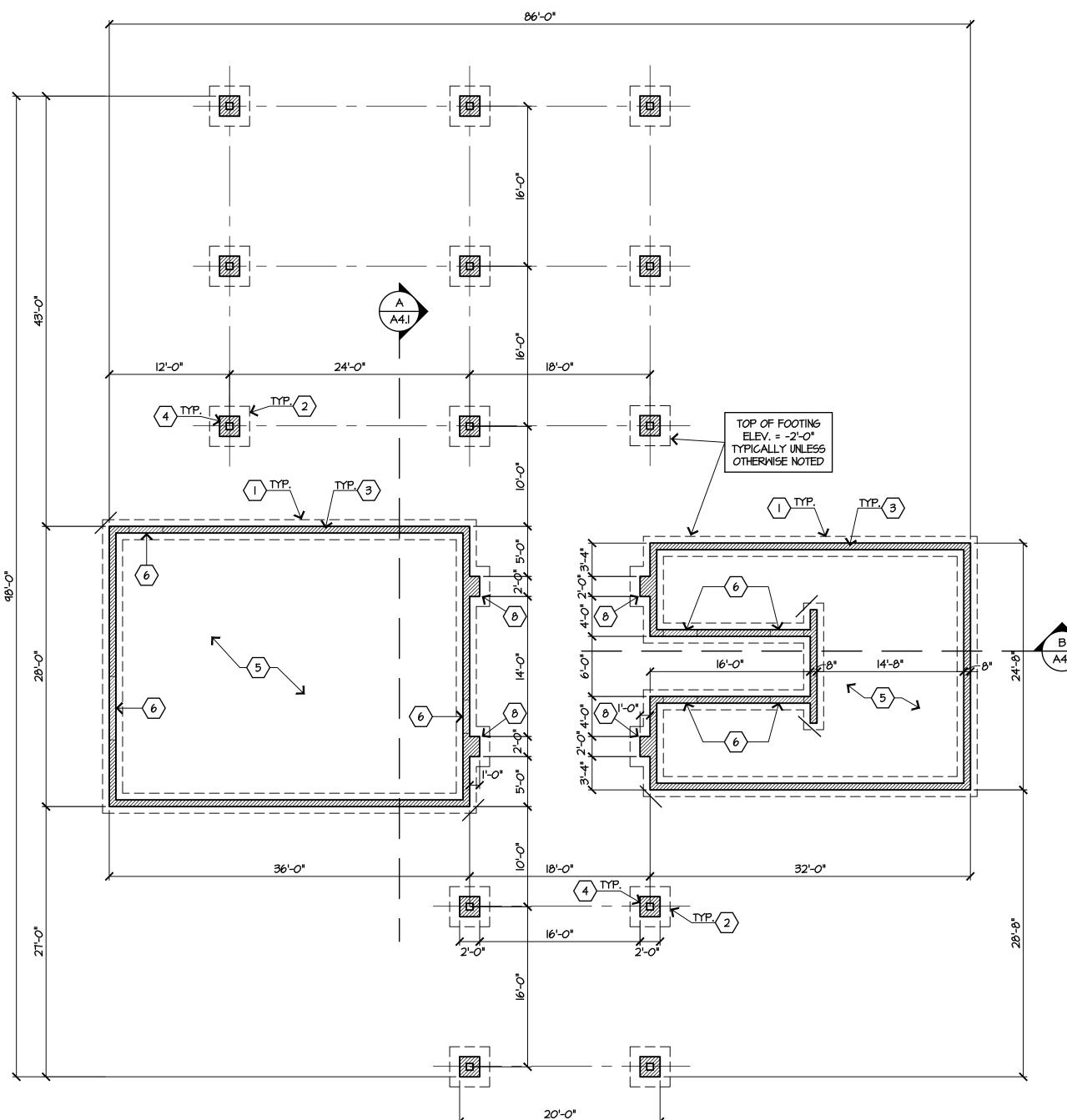
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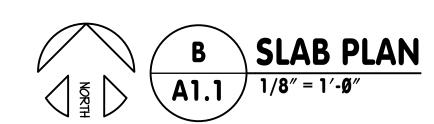


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SITE UTILIZATION PLAN









### FOUNDATION PLAN NOTES

DIMENSIONS ARE SHOWN FROM OUTSIDE TO OUTSIDE FACE OF FOUNDATION WALLS.

2. ALL FOOTINGS TO BEAR ON UNDISTURBED SOIL OR COMPACTED FILL AND TO BE A MIN. 36" BELOW FINISH

### MASONRY GEN'L NOTES

I. MATERIALS:

- I.a. CONCRETE BLOCK: ASTM C90 (HOLLOW AND SOLID), f'm =
- MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1,800
- BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE. JOINT REINFORCING: STANDARD DUR-O-WAL, MILL GALVANIZED FINISH.
- 2. MISCELLANEOUS

2.a. PROVIDE 100% SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, I COURSE UNDER JOISTS, UNLESS DETAILED

- 2.b. FILL CORE SOLID AROUND ANCHOR BOLTS.
- SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
- HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS HALL ALSO BE BEDDED IN ALL COURSES OF PIERS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCES OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
- PROVIDE JOINT REINFORCING PER TYPICAL REINFORCED
- MASONRY WALL CONSTRUCTION DIAGRAM. PROVIDE SOLID BLOCKS OR GROUT SOLID HOLLOW BLOCKS
- AT ALL EXPANSION ANCHOR LOCATIONS. EXPANSION ANCHORS SHALL HAVE MINIMUM EMBEDMENT OF 6 BOLT DIAMETERS, EXCEPT AS DETAILED OTHERWISE.
- WHERE HOLLOW MASONRY UNITS ARE USED ABOVE HOLLOW MASONRY UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF SOLID MASONRY AT LEAST 8" HIGH BELOW THE TRANSITION.
- 2.I. AT CORBELLED WALLS, USE SOLID MASONRY FOR THE COURSE BELOW THE FIRST CORBEL AND FOR EACH CORBELLED COURSE. MAXIMUM CORBEL PER COURSE = I", UNLESS DETAILED OTHERWISE.
- ALL SPLICES FOR WALL REINFORCING ARE TO BE LAPPED PER THE MASONRY LAP SPLICE TABLE. ALL GROUTING OF MASONRY WALLS SHALL BE BY THE

LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 4'-0"),

UNLESS CLEAN-OUTS AND INSPECTION ARE PROVIDED.

### **CODED NOTES**

EACH WAY

- CONTINUOUS 12"H x 24"W CONCRETE FOOTING w/ (2) #5 REBAR CONT. @ BOTTOM OF FTG. - MIN. 36" BELOW FINISH GRADE 2. 48" x 48" x 12" DEEP CONCRETE FOOTING w/ (4) #5 REBAR
- 3. 8" CMU WALL w/ #4 VERT. REBAR @ 48" O.C. + CONTINUOUS
- HORIZONTAL JOINT REINFORCING @ 16" O.C. 4. 24" x 24" CMU PIER w/ #4 REBAR VERT GROUTED SOLID IN EVERY BLOCK CORE..
- 5. 4" CONCRETE SLAB w/ 6x6 WI.4xWI.4 WWF ON 6 MIL VAPOR BARRIER OVER 4" WASHED STONE CHOKED W/ SAND ON UNDISTURBED EARTH OR COMPACTED FILL - SEAL SLAB -SLOPE SLAB DOWN TO FLOOR DRAINS - SEE FLOOR PLAN FOR TOP OF SLAB ELEVATION
- 6. HOLD FOUNDATION WALL DOWN 8" AT DOOR OPENINGS FOR SLAB OVERPOUR INTERIOR CONTROL JOINT - SAW CUT SLAB WITHIN 24 HRS. OF PLACEMENT TO 1/4 OF SLAB DEPTH -TYPICAL - MAX. 15'-O"
- PANELS. EXTERIOR CONTROL JOINTS TO BE TROWLED IN PATTERN AS DIMENSIONED. 8. 12" x 24" PILASTER
- 9. EDGE OF CONCRETE SLAB TO ALIGN WITH OUTSIDE EDGE OF
- IO. EDGE OF CONCRETE SLAB
- II. #4 REBAR X 3'-O" LONG DIAGONALLY AS SHOWN, @ MID-DEPTH OF SLAB. TYPICAL AT EXTERIOR CONCRETE SLAB WHERE ADJACENT TO EXTERIOR CORNER OF BUILDING WHERE NO CONTROL JOINT IS CALLED FOR IN THE SLAB.

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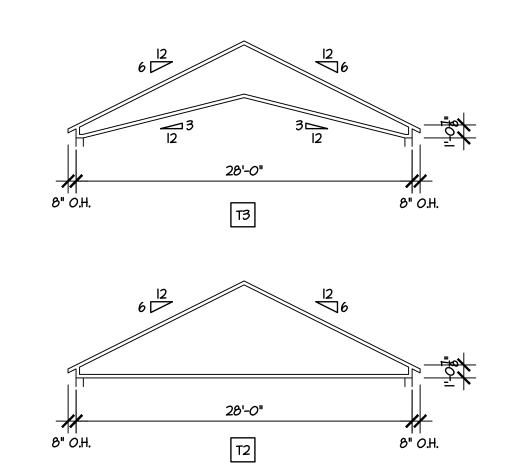


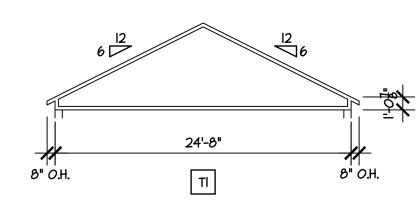
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**FOUNDATION** PLAN & DETAILS

### 





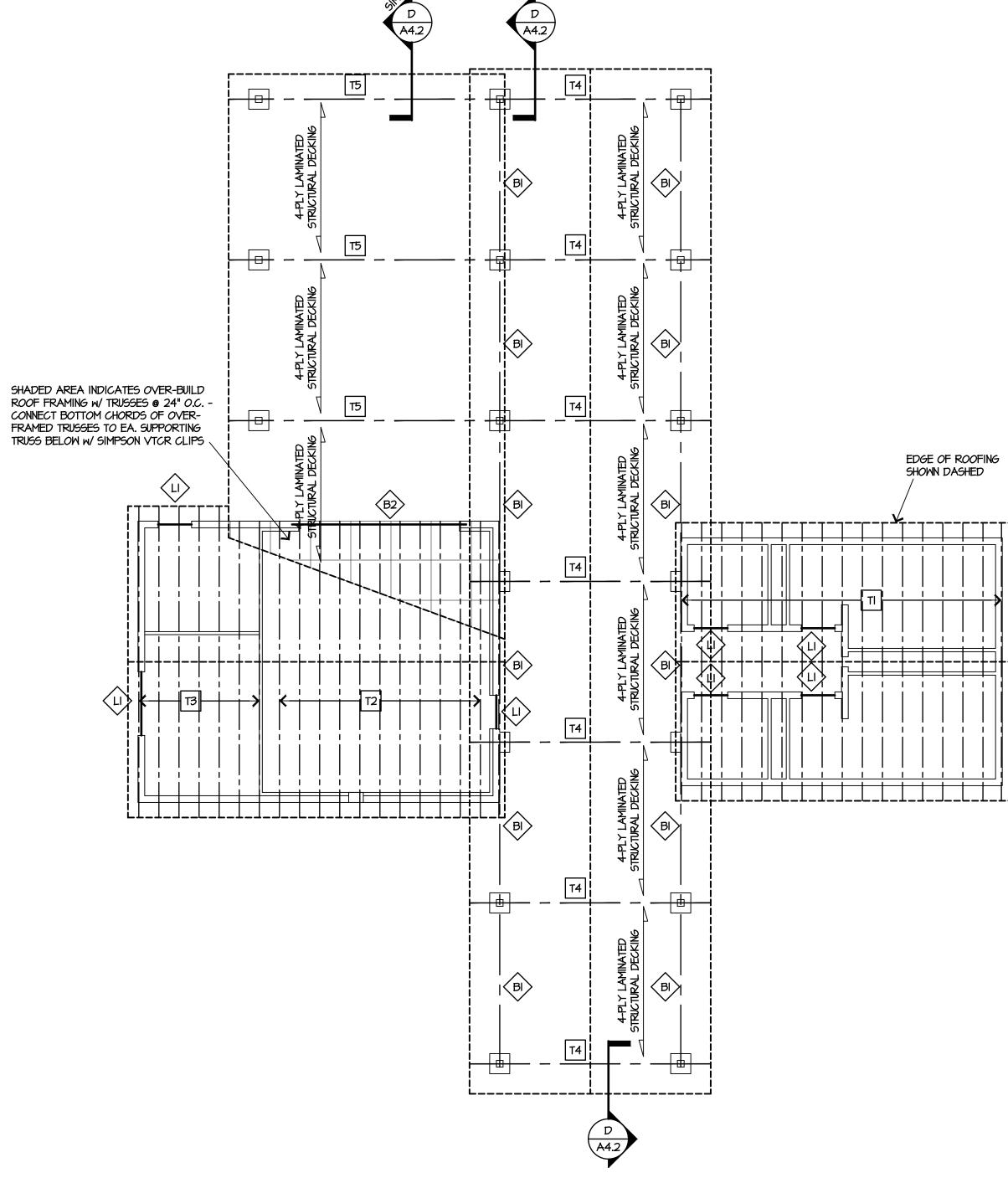
TRUSS MANUFACTURER TO VERIFY ALL
TRUSS PROFILES, HEEL AND OVERHANG
DIMENSIONS PRIOR TO FABRICATION OF
TRUSSES AND SUBMIT TRUSS DRAWINGS TO
ARCHITECT AND BUILDING CODE
DEPARTMENT FOR APPROVAL.

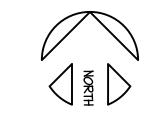
STANDARD TRUSSES

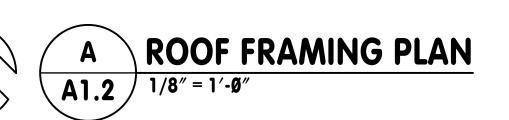
B TRUSS DIAGRAMS
A1.2 1/8" = 1'-9"

### FRAMING PLAN NOTES

- I. LIVE LOAD AT ROOF =20 PSF + DRIFTED SNOW.
- UNLESS NOTED OTHERWISE, ALL FRAMING DIMENSIONS ARE TO FACE OF STUD, FACE OF SHEATHING, OR TO CENTERLINE OF ROUGH OPENING.







BEAM / HEADER / POST SCHEDULE *							
MARK/	CIZE	HE	ADER	BEAM			
DESCRIPTION	SIZE TY <del>I</del> 	TYPE	JACK POST	KING POST	POST		
LI	8" SPLIT FA BOND BEAM	CE BLOCK w/ (2) #4 BOT.					
BI	5k " x 12" GL	JULAM					
B2	63 × 101 G	LULAM					

- \* NOTES
- I. GROUT CMU SOLID MIN. (3) COURSES x (2) CELLS UNDER ALL BEAM BEARING
- 2. IF CONTRARY, PLAN NOTES SUPERCEDE THIS SCHEDULE

ALL ACCESSIBLE SPORTS COMPLEX AND PARK

POREST ROSE SCHOOL

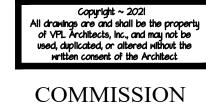
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**\** 

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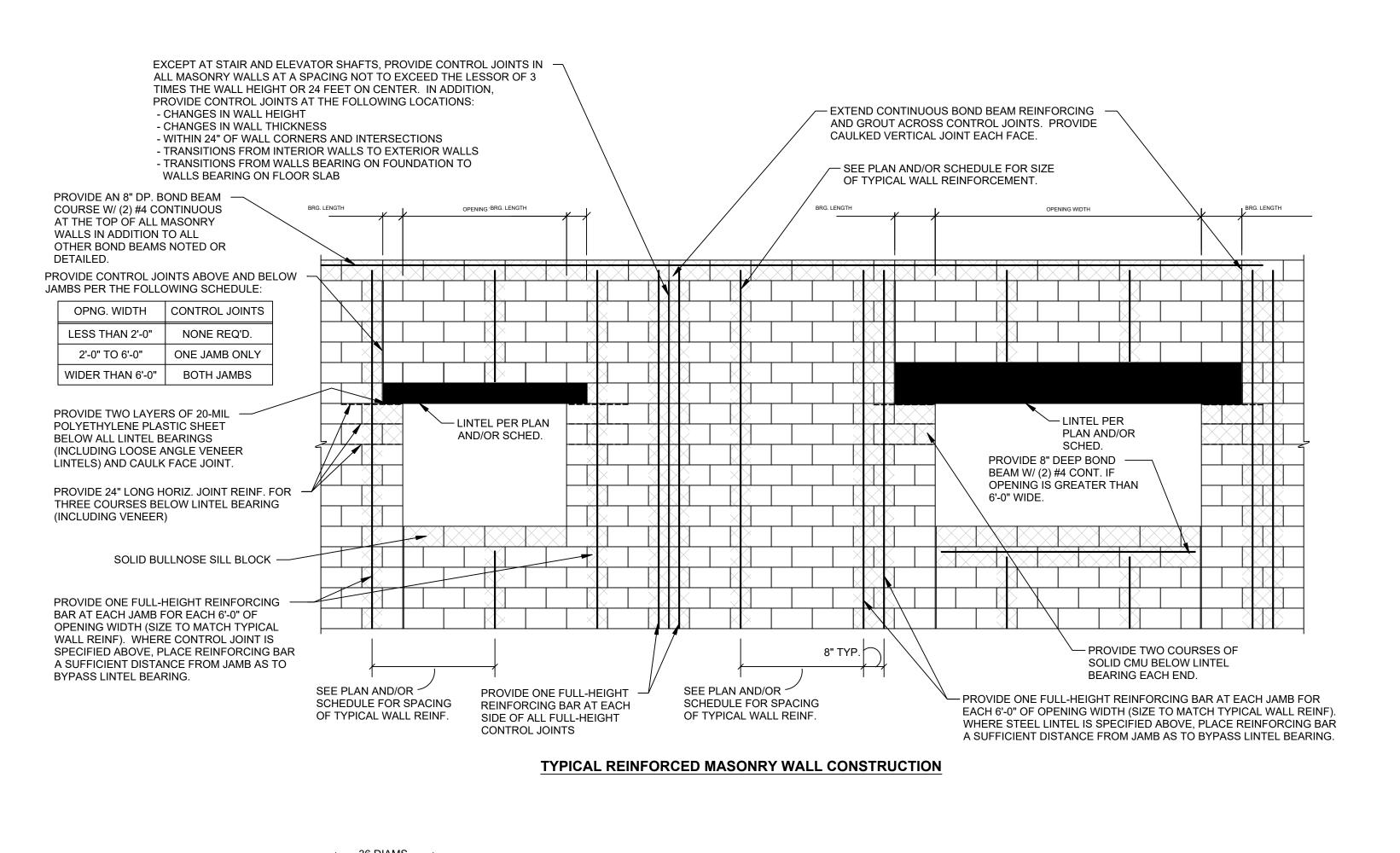
STEPHEN

M.
LUCHTENBERG

8546

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ROOF FRAMING PLAN



LOAD-BEARING CMU WALLS

- A A . - A - U

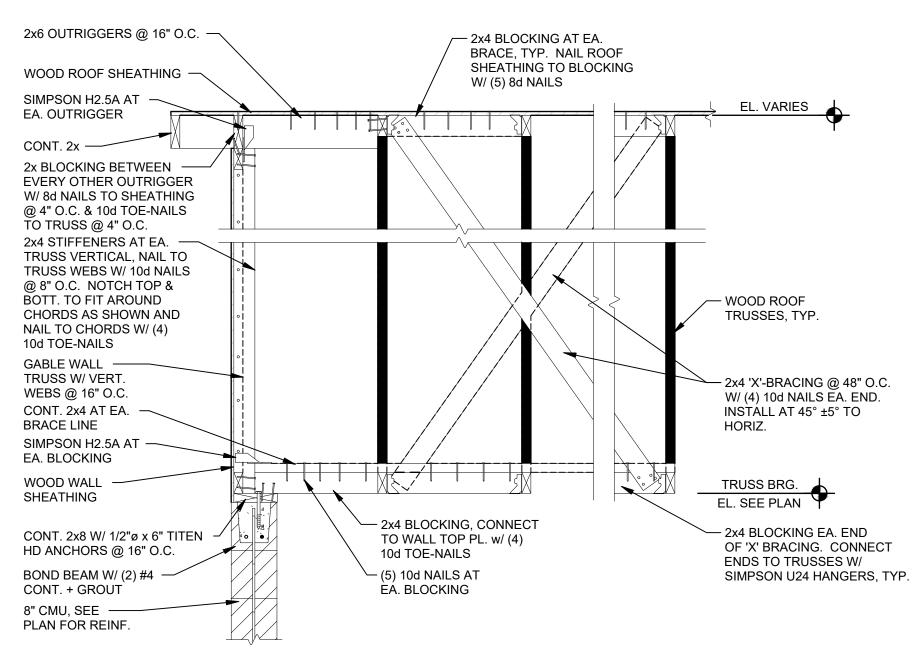
THIS DETAIL IS NOT APPLICABLE TO

UNDERGROUND ELECTRICAL CONDUIT BANKS. CONTACT ARCHITECT/ENGINEER FOR

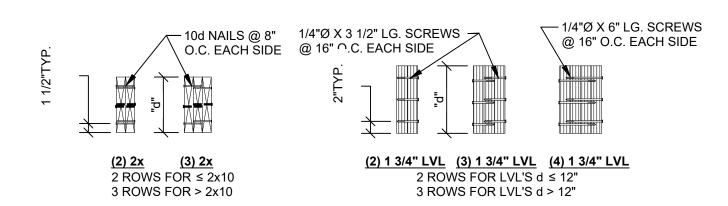
RECOMMENDATIONS

**ENCASEMEN** 

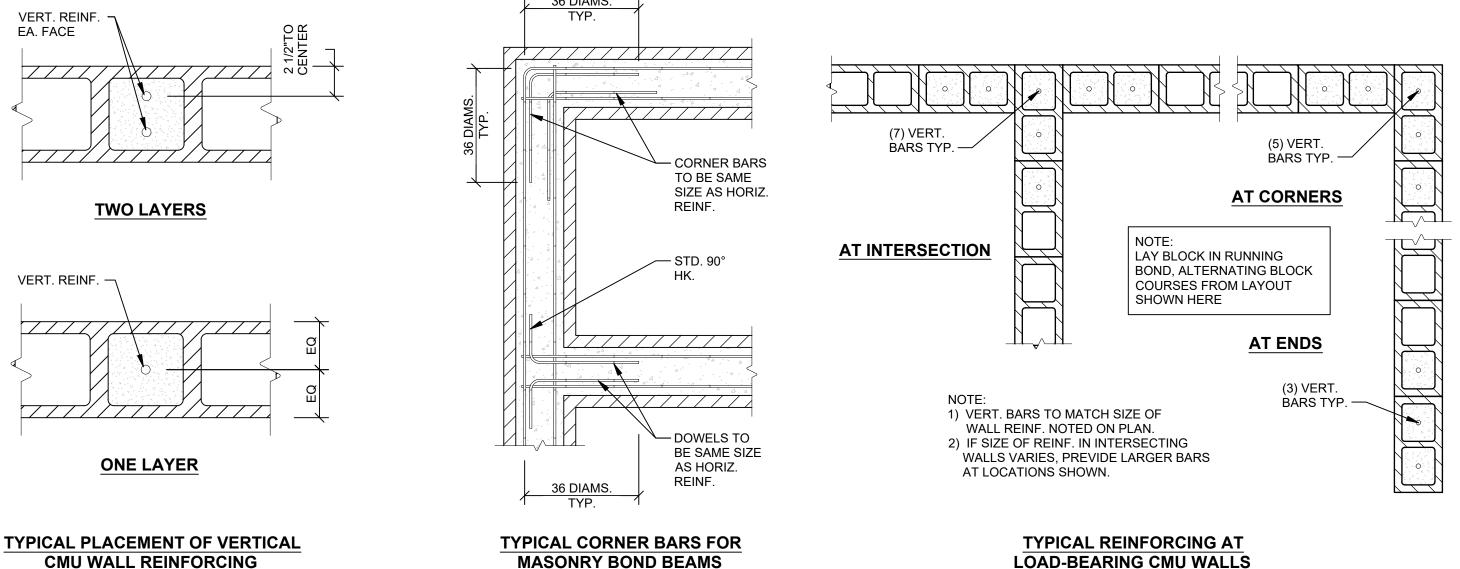
TYPICAL PLUMBING UNDER FOOTING



### TYPICAL WOOD TRUSS DIAGONAL BRACING



### TYPICAL MULTIPLE WOOD MEMBER CONNECTION REQUIREMENTS



MIN. WIDTH NOTED

ON PLAN

**MASONRY BOND BEAMS** 

UNDERGROUND PIPE

SLEEVE I.D. @ LEAST

2" LARGER THAN PIPE

PROVIDE PVC -

PER PLUMBING PLANS

← 1/2" Ø x 1' - 4" LG.

TYPICAL FLOOR CONSTRUCTION JOINT

TYPICAL FLOOR CONTROL JOINT

SAWN JT. TO -

BE FILLED

PER SPEC.

SMOOTH DOWELS @ 24" O.C. DOWELS MUST BE

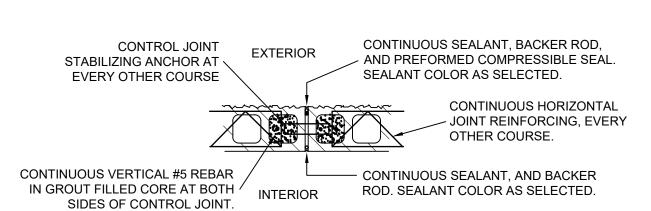
**SET STRAIGHT & LEVEL** 

EL. SEE PLAN ,

LAP SPLICE SCHEDULE FOR MASONRY REINFORCING				
f'm = 1,500 psi BAR CENTERED IN WALL d = t/2				
		ld (in)		
BAR#	8" CMU	10" CMU	12" CMU	14" CMU
#3	1'-0"	1'-0"	1'-0"	1'-0"
#4	1'-3"	1'-0"	1'-0"	1'-0"
#5	1'-11"	1'-6"	1'-3"	1'-2"
#6	3'-7"	2'-10"	2'-4"	1'-11"
#7	5'-0"	3'-10"	3'-2"	2'-8"
#8	7'-8"	5'-11"	4'-9"	4'-0"
#9	-	7'-7"	6'-2"	5'-2"

ALLOWABLE HEIGHT OF 5'-0" FOR LOW-LIFT GROUTING.

2. APPLICABLE ONLY FOR BARS CENTERED IN MASONRY CELL. 3. APPLICABLE ONLY FOR 60 KSI STEEL AND ASTM C90 BLOCK.



	LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING				
	3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER			
#4	3'-1" 2'-4	4" 3'-1" 2'-4"			
#5	3'-10" 3'-	0" 3'-10" 3'-0"			
#6	4'-8" 3'-	7" 4'-8" 3'-7"			
#7	7'-6" 5'-9	9" 6'-9" 5'-2"			
#8	9'-3" 7'-	1" 7'-9" 5'-11"			
#9	11'-2" 8'-	7" 8'-8" 6'-8"			
#10	13'-6"	1" 9'-10" 7'-6"			

CC	CONCRETE REINFORCING				
	4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CI R				
#4	2'-8" 2'-1"	2'-8" 2'-1"			
#5	3'-4" 2'-7"	3'-4" 2'-7"			
#6	4'-0" 3'-1"	4'-0" 3'-1"			
#7	6'-6" 5'-0"	5'-10" 4'-6"			
#8	8'-0" 6'-2"	6'-8" 5'-2"			
#9	9'-8" 7'-6"	7'-6" 5'-10"			
#10	11'-8" 9'-0"	8'-6" 6'-6"			
#11	13'-8" 10'-6"	9'-5" 7'-3"			

LAP SPLICE SCHEDULE FOR

TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

**#11** |15'-10" | 12'-2" |10'-11

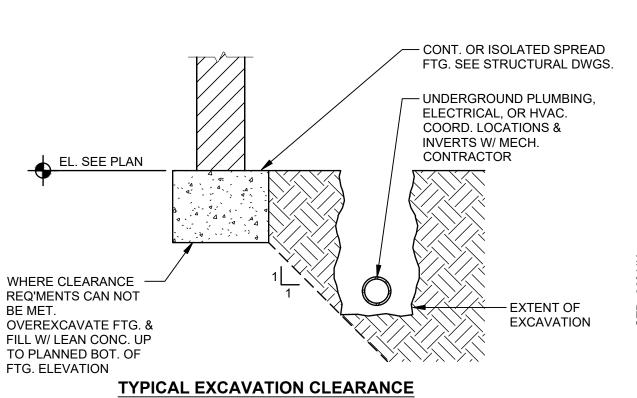
2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR

SCHEDULED OTHERWISE.

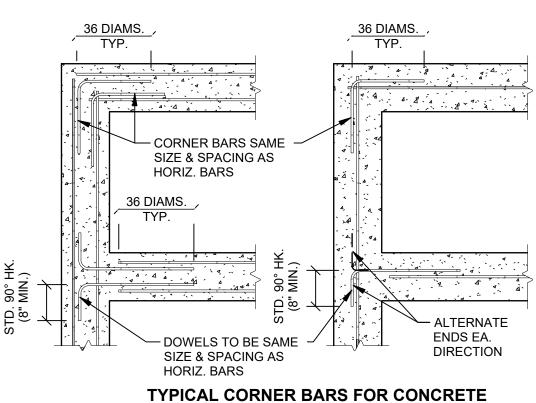
3. APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.

4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

TYF	PICAL	CON.	TROL	<b>JOINT</b>



REQUIREMENTS



WALL AND FOOTING CONSTRUCTION

"_"	INDICATES TOLERANCE TOWARDS MEMBER FACE.
"+"	INDICATES TOLERANCE AWAY FROM MEMBER FACE

NOR IN CONTACT WITH GROUND

- BEAMS, COLUMNS, & PIERS:

(TO TIES OR STIRRUPS)

- SLABS AND WALLS:

(#3 - #11 BARS)			
EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMEN TOLERANC	
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"	
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER BARS: - #6 AND LARGER BARS:	1-1/2" 2"	-1/4", +1/2' -1/4", +1/2'	
NEITHER EXPOSED TO WEATHER,			

-1/4", +3/8"

-1/4", +1/2"

REINFORCING COVER/TOLERANCE

1-1/2"

## AND OMP OR SP SIB

P

ARK

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Expiration Date: December 31, 2021 **STRUCTURAL DETAILS** 

### **GENERAL STRUCTURAL NOTES**

### **GENERAL**

- 1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- 3. MECHANICAL EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS SHALL BE BORNE BY MECHANICAL CONTRACTOR.
- 4. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS.
- 6. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL"
- 7. SHOP DRAWINGS SHALL BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION PHASE OR SEQUENCE SHALL BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS SHALL HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.
- 8. PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY, AND MAY INCLUDE BUT NOT BE LIMITED TO: STAIRS, HANDRAILS, CURTAIN WALLS, STOREFRONT SYSTEMS, AWNINGS, COLD-FORMED METAL FRAMING, AND PREFABRICATED FRAMING MEMBERS. THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. JEZERINAC GEERS WILL REVIEW THE DESIGN METHODOLOGY, LOADS, AND INSTALLATION DETAILS AS PART OF THE SHOP DRAWING REVIEW PROCESS, AND MAY REQUEST A SEALED CALCULATION PACKAGE FOR REVIEW.
- 9. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.

### 10. CODE INFORMATION

- GEOTECHNICAL ENGINEER:

- REFERENCE REPORT DATE:

- FOUNDATION TYPE:

- REFERENCE REPORT I.D. OR NUMBER:

- ALLOWABLE DESIGN BEARING PRESSURE:

COD	E INFORMATION	2047 OLUO BUU BINO COBE
	- GOVERNING CODE:	2017 OHIO BUILDING CODE
	- BUILDING RISK CATEGORY:	CATEGORY II
	FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WERE APPLICAB	LE)
	- GROUND FLOOR	100 PSF
	ROOF LIVE LOADS	
	- ORDINARY FLAT, PITCHED, AND CURVED ROOFS	20 PSF
	- FABRIC AWNINGS AND CANOPIES	5 PSF
	SNOW LOADS	
	- GROUND SNOW LOAD (Pg)	20 PSF
	- FLAT ROOF SNOW LOAD (Pf)	20 PSF
	- SNOW EXPOSURE FACTOR (Ce)	1.0
	- SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
	- THERMAL FACTOR (Ct)	1.0
	- SNOW DRIFTING	SEE PLAN
	WIND LOADS	
	- WIND IMPORTANCE FACTOR	1.0
	- BASIC ULTIMATE WIND SPEED (V ult)	115 MPH
	- BASIC ALLOWABLE WIND SPEED (V asd)	90 PSF
	- SITE EXPOSURE CATEGORY	С
	- INTERNAL PRESSURE COEFFICIENT	+/- 0.18
	SEISMIC LOADS:	
	- SEISMIC IMPORTANCE FACTOR	1.0
	- MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	0.114
	- MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	0.061
	- SEISMIC SITE CLASS	D
	- DESIGN SPECTRAL RESPONSE ACCELERATION (Sds)	0.122
	- DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1)	0.098
	- SEISMIC DESIGN CATEGORY	В
	- RESPONSE MODIFICATION COEFFICIENT (R)	3.5
	- SEISMIC RESPONSE COEFFICIENT (Cs)	0.035
	- SEISMIC DESIGN BASE SHEAR (V)	6.1 K
	- ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
	- BASIC SEISMIC FORCE-RESISTING SYSTEM:	INTERMEDIATE REINFORCED CMU SHEAR WALLS
	GEOTECHNICAL:	

TBD

TBD

TBD

1,500 PSF (ASSUMED — MUST BE VERIFIED)

SHALLOW SPREAD FOOTING

### REINFORCED CONCRETE

1. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

### 2. MATERIALS:

A. STRUCTURAL CONCRETE:

MIX USAGE	fc (PSI)	MAX w/cm	AIR CONTENT
LEAN CONCRETE	1,500		
FOOTINGS & INTERIOR COLUMN PIERS	3,500	0.55	
INTERIOR SLABS ON GRADE	3,500	0.50	
INTERIOR SLABS ON GRADE WHICH RECEIVE MOISTURE- SENSITIVE FLOOR COVERINGS	4,000	0.45	
EXTERIOR FOUNDATION STEMWALLS, EXTERIOR FOUNDATION WALLS, & EXTERIOR COLUMN PIERS	4,500	0.45	5%-7%
EXTERIOR UNREINFORCED SLABS ON GRADE & EXTERIOR CONCRETE NOT SUBJECT TO DEICERS	4,500	0.45	5%-7%

- B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI.
- CEMENT: PORTLAND CEMENT, ASTM C150, TYPE 1. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW SHALL BE FROM THE SAME MILL
- AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL MIXES UNLESS NOTED OTHERWISE.
- E. ADMIXTURES:
- 1. WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D.
- 2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G.
- AIR-ENTRAINING: ASTM C260.
- G. FLY-ASH: ASTM C618, TYPE C OR F.
- H. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E.
- I. VAPOR RETARDER SHALL CONFORM TO ASTM E1745 "STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS", CLASS A.
- J. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643 "STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 10 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER S RECOMMENDED TAPE OR ADHESIVE.
- 3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15 IN THE FIELD OFFICE AT ALL TIMES.

### 4. SUBMITTALS

- A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
- B. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
- C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.
- D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.

### CONTINGENCIES:

A. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.

### 6. FOOTINGS, PIERS, WALLS:

- A. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING.
- B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LENGTH OF EACH LEG 36 BAR DIAMETERS.
- C. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BOTH ADJACENT FLOOR SLABS ARE IN PLACE.

### 7. SPLICES:

A. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS.

### 8. FINISHES:

- INISHES: . TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET. RESILIENT FLOOR COVERING. OR TO REMAIN EXPOSED - TROWELED FINISH.
- B. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE FLOATED FINISH.
- C. EXTERIOR SLABS BROOM FINISH.

### 9. CURING:

- A. CURING SHALL COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
- B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE SHALL BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND.
- C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.

### 10. FIELD QUALITY CONTROL:

- A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT DISCHARGE END.
  B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION
- THEREOF, FOR ONE DAY PLACEMENT.
- C. DETERMINE SLUMP FOR EACH STRENGTH TEST.
- D. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.
- E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

### MASONRY

### 1. MATERIALS:

- A. CONCRETE BLOCK: ASTM C90 (HOLLOW AND SOLID), MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 2,600 PSI.
- B. MORTAR: ASTM 270 TYPE S, MINIMUM COMPRESSIVE STRENGTH = 1,800 PSI
- C. GROUT FOR BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE WITH f 'c = 2,500 PSI MIN.
- D. DESIGN COMPRESSIVE STRENGTH OF MASONRY SYSTEM: f 'm = 2,250 PSI
- E. HORIZONTAL JOINT REINFORCING: STANDARD LADDER TYPE, 9 GA., MILL GALVANIZED FINISH. PROVIDE AT 8" O.C. BELOW GRADE, AND 16" O.C. ABOVE GRADE, UNLESS NOTED OTHERWISE.

### 2. CONTROL JOINTS:

A. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.

TOUR ECESSIBLE SPORTS COMPLEX AND SOCIETY ROSE SCHOOL

ARK

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A R C H I T E C T S

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STRUCTURAL SPECS

- PROVIDE 100% SOLID CMU BEARING, MINIMUM 3 COURSES UNDER BEAMS, 2 COURSES UNDER JOISTS, UNLESS DETAILED OTHERWISE.
- PROVIDE SOLID OR GROUT-FILLED CMU FOR ALL BELOW-GRADE FOUNDATION WALLS.
- FILL CORE SOLID AROUND CAST-IN ANCHOR RODS.
- PROVIDE SOLID CMU OR SOLIDLY FILLED HOLLOW CMU AT ALL EPOXY ANCHOR AND WEDGE ANCHOR LOCATIONS. EXTEND SOLID AREA AT LEAST 8" IN ALL DIRECTIONS FROM CENTER OF ANCHOR.
- SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
- FILL ALL BEARING POCKETS AROUND BEAM AND JOIST SEATS WITH SOLID CMU.
- HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALI ALSO BE BEDDED IN ALL COURSES OF PIERS, PILASTERS, THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.
- PROVIDE APPROPRIATE MASONRY ANCHORS AT 16" O.C. MAX. TO TIE MASONRY TO ABUTTING STEEL COLUMNS, STEEL BEAM WEBS, AND ALL ABUTTING CONCRETE SURFACES.
- MINIMUM EMBEDMENT FOR WEDGE ANCHORS SHALL BE 7 BOLT DIAMETERS, UNLESS DESIGNATED OTHERWISE. MINIMUM EMBEDMENT
- FOR EPOXY ANCHORS SHALL BE 9 BOLT DIAMETERS, UNLESS DESIGNATED OTHERWISE.
- LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 48 BAR DIAMETERS. ALL GROUTING OF MASONRY WALLS SHALL BE BY THE LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 5'-0"), UNLESS CLEAN-OUTS AND INSPECTIONS ARE PROVIDED.

### STRUCTURAL LUMBER

### MATERIALS:

- A. STRUCTURAL LUMBER: ALL DESIGN VALUES PER 2015 NFPA NATIONAL DESIGN SPECIFICATION. ANY SUBSTITUTIONS SHALL MEET MINIMUM DESIGN VALUES OF ABOVE MEMBERS. UNLESS NOTED OTHERWISE FRAMING MATERIALS SHALL BE:
  - BEAMS, HEADERS, JOISTS, AND RAFTERS SPRUCE-PINE-FIR NO.1/NO.2
- WALL STUDS 2x4 OR 2x6 SPRUCE-PINE-FIR "STUD" GRADE.
- MICRO=LAM (M=L) OR LAMINATED VENEER LUMBER (LVL): Fb = 2,600 PSI, Fv = 285 PSI, Fc (PERP.) = 750 PSI, E = 1,900 KSI.
- PARALLAM OR PARALLEL STRAND LUMBER (PSL)
- a. BEAMS: Fb = 2,900 PSI, Fv = 290 PSI, Fc (PERP.) = 750 PSI, E = 2,000 KSI.
- COLUMNS: Fb = 2,400 PSI, Fv = 190 PSI, Fc (PERP.) = 545 PSI, E = 1,800 KSI.
- DECKING AND SHEATHING (OSB OR PLYWOOD):
- ROOFS: 19/32 (5/8" NOMINAL) APA RATED SHEATHING, 32/16, EXPOSURE 1
- WALL SHEATHING: 7/16" APA RATED SHEATHING, WALL-24, EXPOSURE 1 GLUE-LAMINATED BEAMS: SOUTHERN PINE. 24F-V5 OR DOUGLAS-FIR/HEM-FIR. 24F-V10
- GLUE-LAMINATED WOOD DECKING: 2x6 DOUGLAS FIR/LARCH, GRADE AND DESIGN VALUES AND NUMBER OF LAMINATIONS AS REQUIRED FOR SPANS. SURFACE - SMOOTH; RANDOM LENGTH CONTINUOUS LAYUP; CENTER AND END MATCHED; MINIMUM 3-
- SPAN CONTINUOUS. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY, GROUND/SOIL, OR USED IN CONDITIONS WITH MOISTURE PRESENT, SHALL BE PRESSURE-TREATED TO RESIST DECAY. PRESERVATIVES USED FOR PRESSURE TREATMENT SHALL BE ALKALINE COPPER QUAT, ACQ-C OR ACQ-D. OTHER PRESERVATIVES PROPOSED FOR USE SHALL BE SUBMITTED FOR REVIEW PRIOR TO ERECTION OR INSTALLATION ON
- THE PROJECT. SPECIFICATIONS:
- UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST REVISIONS OF
  - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
  - U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.
  - APA PS 2-18, PERFORMANCE STANDARD FOR WOOD STRUCTURAL PANELS.
  - APA DESIGN/CONSTRUCTION GUIDE RESIDENTIAL AND COMMERCIAL.

### CONNECTIONS:

- CONNECTIONS FOR WOOD MEMBERS SHALL BE MINIMALLY FASTENED AS PRESCRIBED IN TABLE 2304.10.1 OF THE REFERENCED
- FOUNDATION PLATES ON CONCRETE OR MASONRY WALLS SHALL BE PRESSURE TREATED LUMBER. SYP #2 GRADE MINIMUM. SILLS SHALL BE ANCHORED TO CONCRETE OR MASONRY WITH ½ "DIAMETER x 12" LONG ANCHOR RODS SPACED AT 48 "O.C. MAXIMUM, UNLESS NOTED OTHERWISE. THERE SHALL BE A MINIMUM OF 3 BOLTS PER SILL PIECE WITH ONE BOLT LOCATED WITHIN 12 " OF EACH END OF EACH PIECE. DO NOT PROVIDE A SILL PLATE SPLICE UNDER ANY POST OR STUD. SEE SHEARWALL SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.

BUILDING CODE UNLESS DETAILED OTHERWISE. ALL NAILS SHALL BE COMMON WIRE NAILS, UNLESS SPECIFICALLY NOTED OTHERWISE.

- JOISTS TO BEAMS OR JOISTS TO TRUSSES 16 GA. STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE. BEAMS TO BEAMS 16 GA. BEAM HANGERS. UNLESS SHOWN OTHERWISE.
- D. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
- ALL FASTENERS INCLUDING NAILS, ANCHOR RODS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS SHALL BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
- F. ALL MECHANICAL ANCHORS INCLUDING WEDGE ANCHORS AND SLEEVE ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
- G. SHEATHING TO FRAMING:
- ROOFS USE 10d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
- STUD WALLS USE 8d COMMON OR GALVANIZED BOX NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT
- INTERMEDIATE SUPPORTS (UNO). SEE SHEARWALL SCHEDULES FOR ADDITIONAL FASTENING REQUIREMENTS.
- H. TRUSS TO WALL OR RAFTERS TO WALL STANDARD HURRICANE ANCHORS AT EACH BEARING POINT. ADDITIONAL ANCHORS MAY BE REQUIRED BASED UPON FINAL LAYOUT AND DESIGN BY THE TRUSS MANUFACTURER DURING THE SHOP DRAWING PROCESS.

### MISCELLANEOUS:

- PROVIDE SOLID BLOCKING AT MID-HEIGHT OF WALLS FOR EACH OF THE FOLLOWING CONDITIONS: EXTERIOR STUD WALLS, INTERIOR
- BEARING PARTITIONS, AND ALL WALL FRAMING WHICH IS NOT SHEATHED ON EACH SIDE WITH GYPSUM OR WOOD SHEATHING. B. USE SINGLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR ROUGH OPENINGS UP AND INCLUDING 4'-0", AND DOUBLE JACK
- STUDS UNDER BEAM AND HEADER BEARINGS FOR SPANS GREATER THAN 4'-0", UNLESS SHOWN OTHERWISE.
- APPLY CONTINUOUS BEAD OF GLUE ON JOISTS AND GROOVE OF TONGUE-AND-GROOVE PANELS.
- D. EACH MEMBER OF MULTIPLE MEMBER BEAMS AND COLUMNS SHALL BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS AT 6" ON
- CENTER, STAGGERED, THE FULL LENGTH OF THE MEMBER. FOR MULTIPLE MEMBER LVL OR LSL PRODUCTS, FOLLOW MINIMUM FASTENING REQUIREMENTS OF THE MANUFACTURER.

### **ENGINEERED WOOD TRUSSES**

### 1. MATERIALS:

- A. LUMBER: AS REQUIRED BY THE TRUSS MANUFACTURER. MINIMUM GRADE SHALL BE SYP NO. 2 KD 15 PERCENT MC, EXCEPT FOR WEBS. WHICH MAY BE MINIMUM GRADE OF SYP NO. 3, KD 15 PERCENT MC.
- CONNECTIONS: ALL INTERNAL TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER. CONNECTORS SHALL BE DEFORMED PLATE TYPE, OF MINIMUM 20 GAUGE GALVANIZED STEEL SHEET. ALL JOINTS SHALL BE DESIGNED USING METHODS AS SET FORTH IN TPI STANDARDS.
- C. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
- D. ALL FASTENERS INCLUDING NAILS, ANCHOR RODS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS SHALL BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
- SPECIFICATIONS AND REFERENCE STANDARDS: UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN. FABRICATION. ERECTION.
- HANDLING AND BRACING REQUIREMENTS SHALL BE GOVERNED BY THE LATEST REVISIONS OF: NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
- TIMBER CONSTRUCTION STANDARDS.
- DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES.
- TRUSS PLATE INSTITUTE PUBLICATION-BTW BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS EXCEPT AS NOTED BELOW.

### DESIGN:

A. ALL TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE FOLLOWING LOADS:

- TOP CHORD DEAD LOAD: 15 PSF 20 PSF - TOP CHORD LIVE LOAD: - BOTTOM CHORD DEAD LOAD: 10 PSF 0 PSF - BOTTOM CHORD LIVE LOAD: L/360 LIVE LOAD DEFLECTION LIMIT:

### ADDITIONAL DEAD LOADS:

TRUSS DESIGNER SHALL INCLUDE ADDITIONAL WEIGHT OF DEAD LOADS APPLIED TO TRUSSES FROM OVER-FRAMED AREAS INDICATED ON PLANS. WHERE TRUSSES ARE INDICATED TO SUPPORT BRICK VENEER, LIMIT TRUSS DEFLECTION TO L/600.

### **SNOW LOADS:**

IN ACCORDANCE WITH ASCE 7-10 USING THE CRITERIA DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES. SNOW LOADS SHALL INCLUDE THE EFFECTS OF "UNBALANCED SNOW LOADS FOR HIP AND GABLE ROOFS

### WIND LOADS:

IN ACCORDANCE WITH ASCE 7-10 USING THE CRITERIA DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES. TRUSSES SHALL BE DESIGNED FOR "COMPONENTS AND CLADDING" WIND LOADS UNLESS NOTED OTHERWISE.

- WHERE TRUSSES ARE REQUIRED TO FRAME INTO OTHER TRUSSES. DESIGN OF THE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE TRUSS SUPPLIER. THE TRUSS SUPPLIER SHALL MAKE NECESSARY PROVISIONS IN THE SUPPORTING TRUSS TO ACCEPT THE TYPE OF HANGER REQUIRED.
- THE DESIGN OF ALL WEB MEMBER PERMANENT BRACING REQUIRED FOR THE STRUCTURAL ADEQUACY OF THE TRUSSES, SHALL BE THE SOLE RESPONSIBILITY OF THE TRUSS SUPPLIER.
- ADDITIONAL PERMANENT BRACE SIZES AND CONNECTIONS, NOT PROVIDED BY THE SHEATHING SHOWN ON THE CONSTRUCTION DRAWINGS. SHALL BE THE SOLE RESPONSIBILITY OF THE TRUSS SUPPLIER. THIS BRACING CAN INCLUDE. BUT IS NOT LIMITED TO. TOP CHORD BRACING FOR TRUSSES WITH PIGGY-BACKS. AND INTERMEDIATE BRACES FOR GABLE TRUSS WEB MEMBERS.

- TRUSS DESIGNS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. TRUSS SUBMITTAL SHALL INCLUDE THE FOLLOWING INFORMATION:
- DESIGN INFORMATION FOR EACH TYPE OF TRUSS SUPPLIED.
- LAYOUT DRAWING INDICATING LOCATION OF EACH SPECIFIC TRUSS TYPE AND ANY PERMANENT HORIZONTAL BRACING
- PERMANENT MEMBER BRACE LOCATIONS, BRACE SIZES, AND CONNECTIONS.
- TRUSS HANGER TYPE AND LOCATION, FOR ALL TRUSSES FRAMING INTO TRUSSES.
- TRUSS DESIGNS AND LAYOUT DRAWING STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, IN THE STATE OF PROJECT
- B. SUBMITTALS WHICH DO NOT INCLUDE THE ABOVE LISTED INFORMATION WILL BE RETURNED TO THE CONTRACTOR PRIOR TO REVIEW.

### MISCELLANEOUS:

- A. ALL GIRDER TRUSSES SHALL BE 2-PLY MINIMUM.
- B. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE APPROVED TRUSS SHOP DRAWINGS. ALL MEMBERS OF MULTIPLE TRUSSES SHALL BE NAILED TOGETHER WITH 10d COMMON NAILS AT 8" O.C., FOR DOUBLE TRUSSES, OR WITH 16d COMMON NAILS AT 8" O.C. FROM EACH SIDE, FOR TRIPLE TRUSSES.

### POST-INSTALLED ANCHOR SYSTEMS

### GENERAL:

- A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR SPECIFIC PURPOSE AND CAPACITY SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
- PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE
- DOCUMENTS. C. ALL POST-INSTALLED ANCHORS SHALL BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA
- INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS
- INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING
- SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS.
- MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
- G. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS SHALL BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.

### 2. ANCHORAGE TO CONCRETE

- A. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS:
  - HILTI KWIK BOLT 3 EXPANSION ANCHOR
  - HILTI KWIK BOLT TZ EXPANSION ANCHOR SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
- B. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
- HILTI HLC SLEEVE ANCHOR
- SIMPSON SLEEVE-ALL SLEEVE ANCHOR
- C. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS: HILTI KWIK HUS-EZ SCREW ANCHOR
- SIMPSON TITEN HD SCREW ANCHOR
- D. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS: HILTI HIT-HY 200 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS.
  - HILTI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
  - HILTI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR. SIMPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
- ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED: FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD JOINTS.
- MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.
- ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS:
- HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
- C. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS) HILTI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
- SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
- D. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
- HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
- SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY
- E. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
- HILTI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY, MULIT-WYTHE MASONRY, OR BRICK WITH HOLES CONSTRUCTION.

SIMPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED. SOLID. AND HOLLOW CONCRETE

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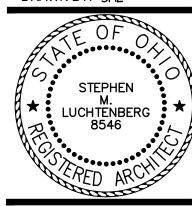
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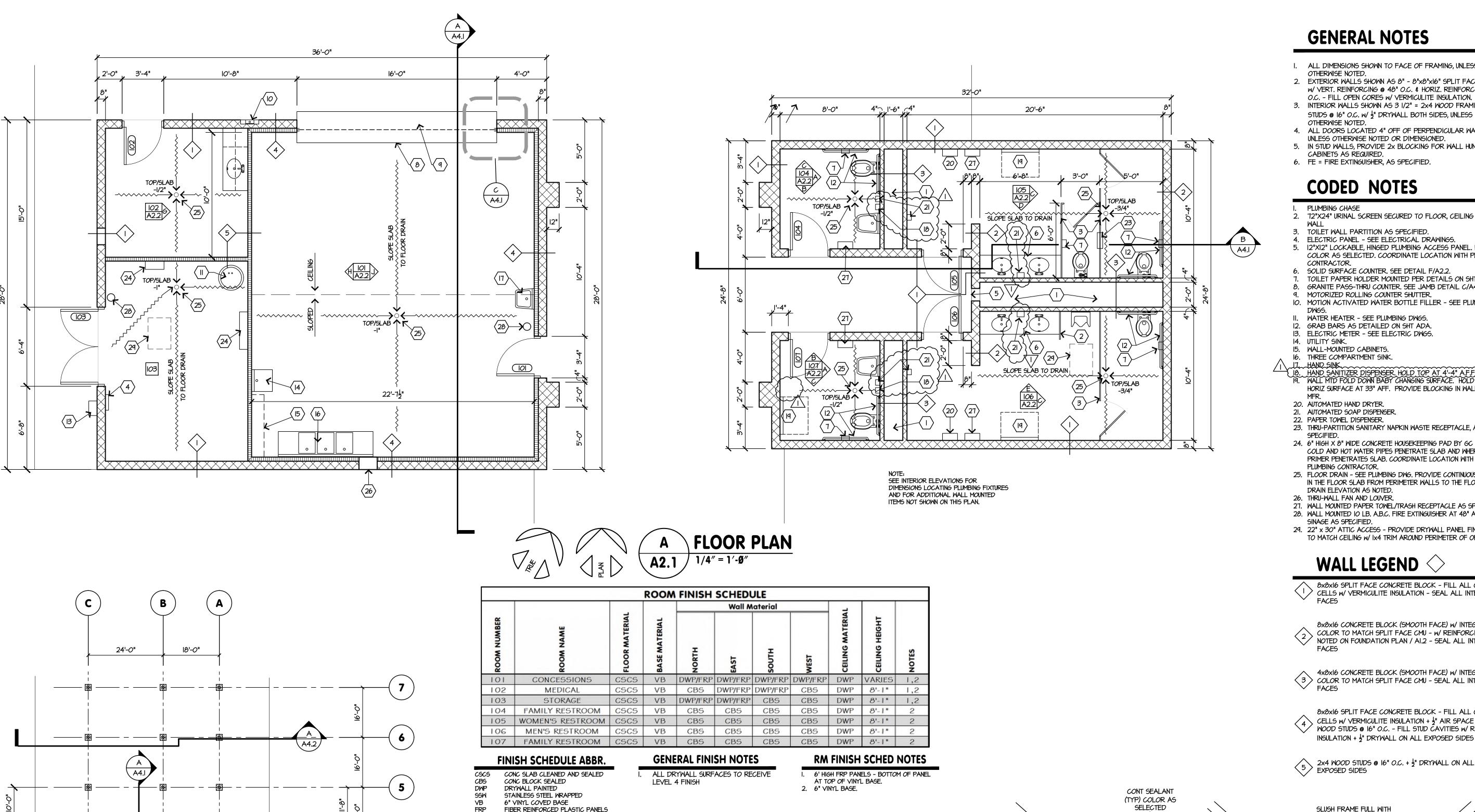


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**SPECS** 

Expiration Date: December 31, 2021

STRUCTURAL



### **GENERAL NOTES**

- I. ALL DIMENSIONS SHOWN TO FACE OF FRAMING, UNLESS
- 2. EXTERIOR WALLS SHOWN AS 8" 8"x8"x16" SPLIT FACE CMU w/ VERT. REINFORCING @ 48" O.C. & HORIZ. REINFORCING @ 16"
- O.C. FILL OPEN CORES W/ VERMICULITE INSULATION. 3. INTERIOR WALLS SHOWN AS 3 1/2" = 2x4 WOOD FRAMING W
- 4. ALL DOORS LOCATED 4" OFF OF PERPENDICULAR WALLS
- UNLESS OTHERWISE NOTED OR DIMENSIONED.
- 5. IN STUD WALLS, PROVIDE 2x BLOCKING FOR WALL HUNG CABINETS AS REQUIRED.

### CODED NOTES

- PLUMBING CHASE
- 2. 72"X24" URINAL SCREEN SECURED TO FLOOR, CEILING AND
- 3. TOILET WALL PARTITION AS SPECIFIED.
- 4. ELECTRIC PANEL SEE ELECTRICAL DRAWINGS. 5. I2"XI2" LOCKABLE, HINGED PLUMBING ACCESS PANEL. PAINT COLOR AS SELECTED. COORDINATE LOCATION WITH PLUMBING
- 6. SOLID SURFACE COUNTER. SEE DETAIL F/A2.2. TOILET PAPER HOLDER MOUNTED PER DETAILS ON SHT ADA.
- GRANITE PASS-THRU COUNTER. SEE JAMB DETAIL C/A4.I. 1. MOTORIZED ROLLING COUNTER SHUTTER. IO. MOTION ACTIVATED WATER BOTTLE FILLER - SEE PLUMBING
- II. WATER HEATER SEE PLUMBING DWGS.
- 12. GRAB BARS AS DETAILED ON SHT ADA. 13. ELECTRIC METER - SEE ELECTRIC DWGS.
- 14. UTILITY SINK.
- 15. WALL-MOUNTED CABINETS. 16. THREE COMPARTMENT SINK.
- 18. HAND SANITIZER DISPENSER. HOLD TOP AT 4'-4" A.F.F. ) 19. WALL MTD FOLD DOWN BABY CHANGING SURFACE. HOLD TOP OF HORIZ SURFACE AT 33" AFF. PROVIDE BLOCKING IN WALL PER
- 20. AUTOMATED HAND DRYER.
- 21. AUTOMATED SOAP DISPENSER. 22. PAPER TOWEL DISPENSER.
- 23. THRU-PARTITION SANITARY NAPKIN WASTE RECEPTACLE, AS
- 24. 6" HIGH X 8" WIDE CONCRETE HOUSEKEEPING PAD BY GC WHERE COLD AND HOT WATER PIPES PENETRATE SLAB AND WHERE TRAP PRIMER PENETRATES SLAB. COORDINATE LOCATION WITH
- 25. FLOOR DRAIN SEE PLUMBING DWG. PROVIDE CONTINUOUS SLOPE IN THE FLOOR SLAB FROM PERIMETER WALLS TO THE FLOOR DRAIN ELEVATION AS NOTED.
- 26. THRU-WALL FAN AND LOUVER
- 27. WALL MOUNTED PAPER TOWEL/TRASH RECEPTACLE AS SPECIFIED. 28. WALL MOUNTED IO LB. A.B.C. FIRE EXTINGUISHER AT 48" AFF \$
- 29. 22" x 30" ATTIC ACCESS PROVIDE DRYWALL PANEL FINISHED TO MATCH CEILING W/ IX4 TRIM AROUND PERIMETER OF OPENING.

### WALL LEGEND $\diamondsuit$

- 8x8x16 SPLIT FACE CONCRETE BLOCK FILL ALL OPEN CELLS W/ VERMICULITE INSULATION - SEAL ALL INTERIOR
- 8x8x16 CONCRETE BLOCK (SMOOTH FACE) w/ INTEGRAL , COLOR TO MATCH SPLIT FACE CMU - W/ REINFORCING AS NOTED ON FOUNDATION PLAN / AI.2 - SEAL ALL INTERIOR
- 4x8x16 CONCRETE BLOCK (SMOOTH FACE) w/ INTEGRAL 3 COLOR TO MATCH SPLIT FACE CMU - SEAL ALL INTERIOR
- 8x8x16 SPLIT FACE CONCRETE BLOCK FILL ALL OPEN 4 CELLS W/ VERMICULITE INSULATION + 1 AIR SPACE + 2x4 WOOD STUDS @ 16" O.C. - FILL STUD CAVITIES W/ R-15 BATT INSULATION + 1 DRYWALL ON ALL EXPOSED SIDES
- $\sqrt{2x4}$  MOOD STUDS @ 16" O.C. +  $\frac{1}{2}$ " DRYMALL ON ALL 2x4 WOOD STUDS EXPOSED SIDES

SLUSH FRAME FULL WITH GROUT.

> CONT SEALANT (TYP) COLOR AS SELECTED

CONTINUOUS THROUGH-WALL

MASONRY FLASHING ABOVE

BOND BEAM HEADER

CONTINUOUS ,

` SEALANT

HOLD INSIDE -

B JAMB

DOOR DETAILS

FACE OF FRAME

FACE OF WALL

FLUSH WITH INSIDE

CONTINUOUS THROUGH-WALL

MASONRY FLASHING ABOVE

BOND BEAM HEADER

CONTINUOUS

SEALANT



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Κ .			
HOLD OUTSIDE			
FACE OF			
FRAME FLUSH .			
WITH OUTSIDE			
FACE OF			
WALL :			
<u> </u>			
X			
Ц			

C JAMB

F HEAD

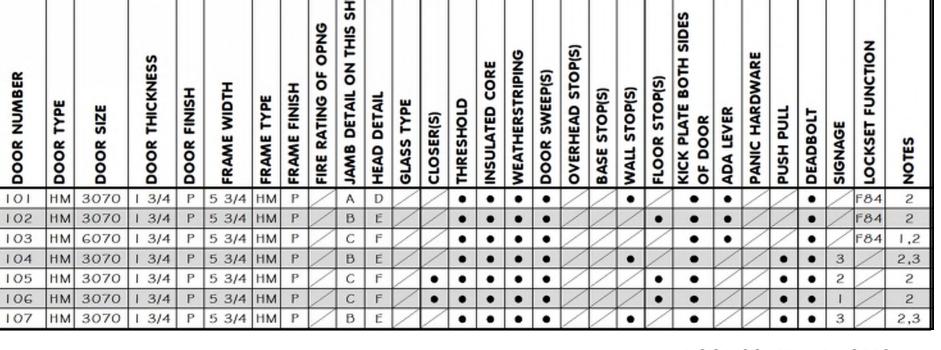
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FLOOR PLAN, **ROOM FINISH &** DOOR SCHEDULES

DRAWING NUMBER



### DOOR SCHEDULE ABBREVIATIONS

102 HM 3070 | 3/4 P | 5 3/4 HM P

104 HM 3070 | 13/4 | P | 53/4 HM | P | 105 HM 3070 | 13/4 P | 53/4 HM P

103 HM 6070 | 13/4 | P | 53/4 HM | P

FIBER REINFORCED PLASTIC PANELS

HM HOLLOW METAL F84 OUTSIDE LEVER LOCKED AND UNLOCKED WITH KEY, INSIDE LEVER

ALWAYS UNLOCKED.

18'-0"

36'-0"

32'-O"

OVERALL FLOOR PLAN

**GENERAL DOOR NOTES** 

DOOR AND HARDWARE SCHEDULE

- SCHEDULED DOOR SIZE EXPLANATION: 3070 = 3'-0" x 7'-0" DOOR 6070 = TWO 3'-0" x 7'-0" DOORS UNDER ONE 6'-O"W x 7'-O"H FRAME
- 2. CONTRACTOR TO BID HARDWARE FINISH US26D/626-652, SATIN CHROME, UNO. 3. LEVERS TO BE SCHLAGE OMEGA SERIES, OR APPROVED EQUAL.
- 4. SEE SPECS FOR ADDITIONAL INFO. 5. ALL SCHEDULED SIGNAGE IS TO BE MOUNTED AT 60" AFF TO CENTERLINE OF SIGN, EITHER ON THE WALL DIRECTLY ADJACENT TO THE DOOR OR AT THE CENTERLINE OF THE DOOR PER ADAAG
- 6. ALL CLOSERS TO BE HEAVY DUTY. 7. ALL HOLLOW METAL FRAMES TO BE

### DOOR SCHEDULE NOTES

DRYWALL AS

SCHEDULED

FURRED

DRYWALL AS

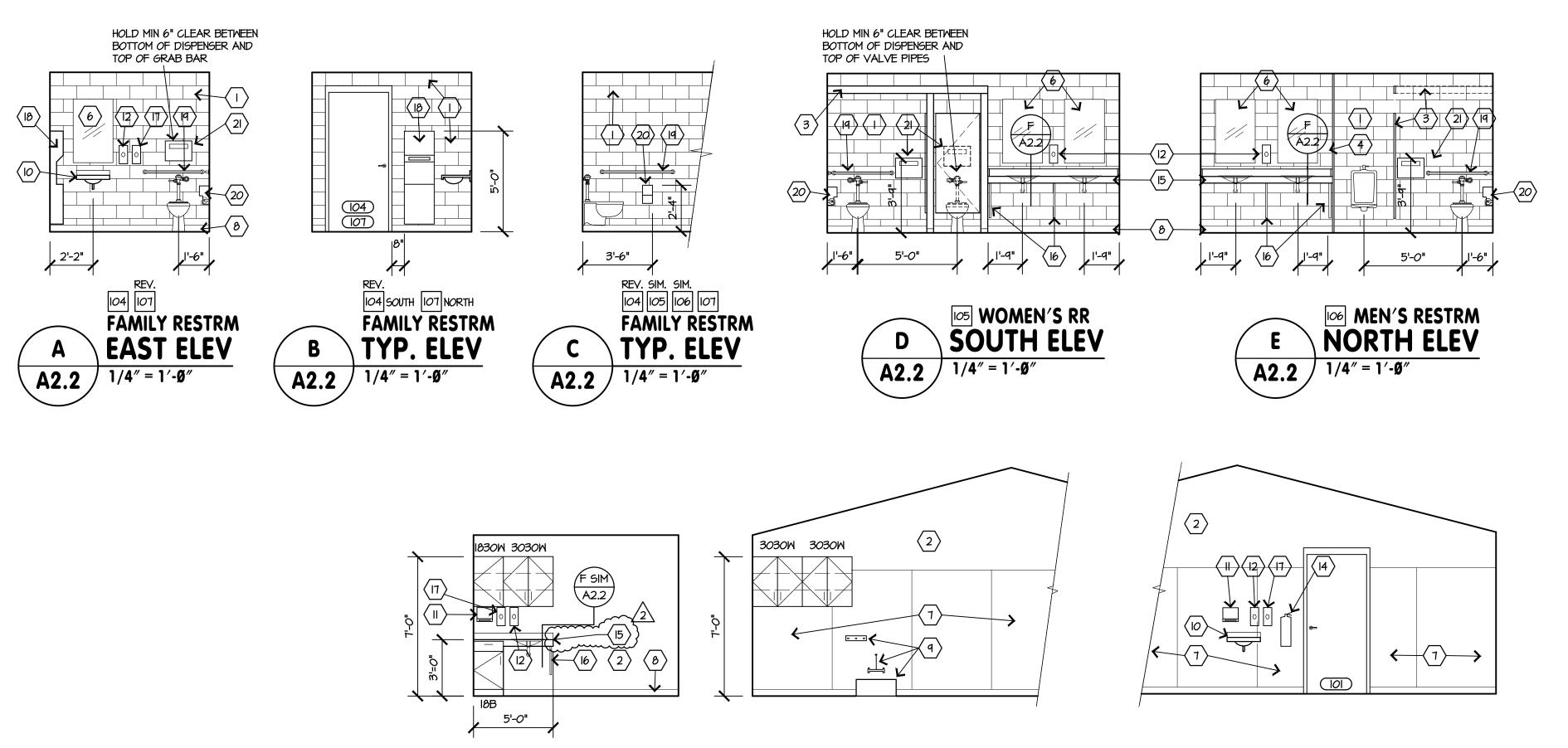
SCHEDULED

CONTINUOUS

SEALANT '

(A) JAMB

- SOUTH LEAF ACTIVE WITH LEVER, NORTH LEAF INACTIVE W STRIKE PLATE, HEAD AND FOOT BOLT
- HOLLOW METAL FRAME TO HAVE 2" JAMBS AND 4" HEAD. 3. PROVIDE ADA OPERATOR.
- SIGNAGE TYPES MEN'S RESTROOM SIGN
- WOMEN'S RESTROOM SIGN 3. FAMILY RESTROOM SIGN

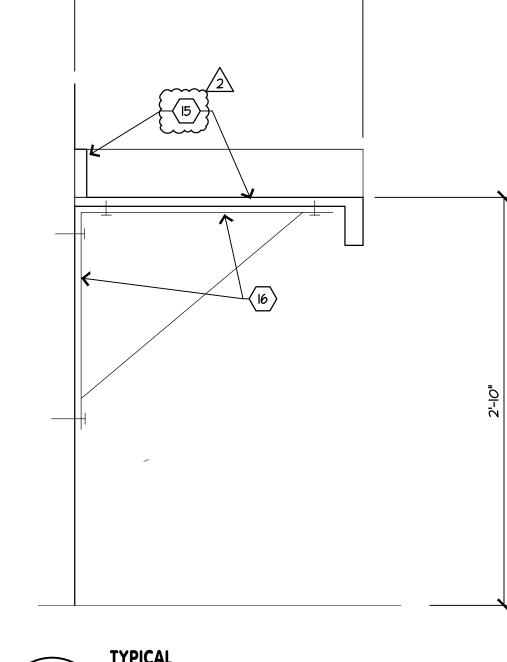


**CONCESSIONS** 

WEST ELEV [0]

102 MEDICAL RM

**EAST ELEV** 



2'-0"

1-1/2" = 1'-O"

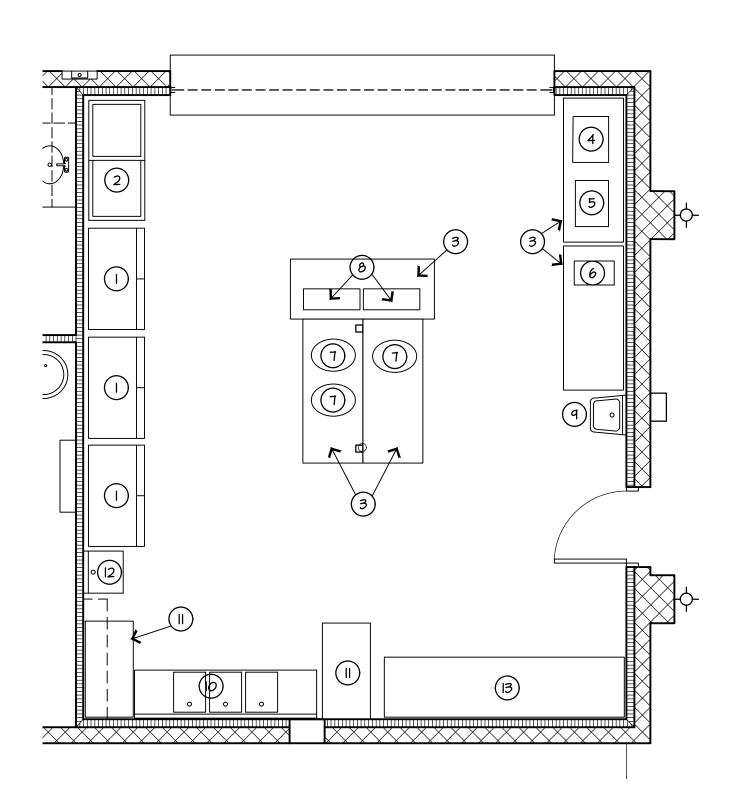
BATH COUNTER DETAIL

(	CONCESSION EQUIPMENT (AS SPECIFIED)	LEGEND
l.	2-DOOR BEVERAGE COOLER ALT BID #2	52"W x 34"D
2.	ICE CREAM FREEZER (- ALT BID #2	60"W X 28"D
3.	STAINLESS STEEL WORK TABLE ALT BID #2	72"L X 30"W
4.	SNO-CONE MACHINE - BY OWNER	22"W X 18"D
5.	POPCORN MACHINE - BY OWNER	23"W X 16"D
6.	NACHO CHIP DISPENSER - BY OWNER	12"W X 20"D
7.	PORTABLE CROCK-POT - BY OWNER	IO QUART
8.	CHIP / CANDY RACK - BY OWNER	
9.	HAND SINK - BY GC	
10.	TRIPLE BOWL SINK W/ DRAIN BOARD - BY GC	
II.	STAINLESS STEEL WORK TABLE (ALT BID #2)	48"W X 24"D
12.	MOP SINK - BY GC	
13.	METAL SHELVING ALT BID #2	2'-6" X 10'-0"

CONCESSIONS

1/4" = 1'-Ø"

EAST ELEV [0]





### **CODED NOTES**

8. 6" VINYL BASE.

- I. SEALED CONCRETE BLOCK WALL, WITH INTEGRAL COLOR AS SELECTED BY OWNER.
- 2. PAINTED DRYWALL.
- 3. TOILET STALL PARTITION AS SPECIFIED.
- 4. 72"X24" URINAL SCREEN SECURED TO FLOOR, CEILING AND

OF MIRROR 6'-6" A.F.F. CENTER ABOVE SINK.

- 5. NOT USED. 6. METAL FRAMED I/4" POLISHED GLASS 24"X36" MIRROR. TOP
- 7. 4' WIDE X 6' HIGH, PEBBLE-FINISH FRP PANELS ADHERED TO WALL. HOLD BOTTOM OF PANELS AT TOP OF VINYL BASE. PROVIDE PVC INSIDE CORNER TRIM AT CORNERS AND DIVIDER TRIM BETWEEN PANELS. COLOR AS SELECTED FROM MFR'S STANDARD RANGE.
- 9. MOP SINK, FAUCET AND MOP HANGER STRIP. SEE PLUMBING PLANS.
- IO. WALL MOUNTED LAV. SEE PLUMBING PLANS.
- II. WALL MOUNTED PAPER TOWEL DISPENSER. HOLD TOP AT 4'-4" AFF.
- 12. WALL MOUNTED SOAP DISPENSER. HOLD TOP AT 4'-4" AFF. 13. METAL SHELVING.
- 14. IO LB ABC FIRE EXTINGUISHER BRACKETED TO WALL, TOP OF
- FE AT 48" AFF. 15. NOMINAL I" SOLID SURFACE COUNTER WITH 4" BACK AND END
- SPLASHES AND 4" VALANCE AT FRONT AND OPEN SIDE. 16. STEEL BRACKET AT MIDPOINT (WHERE SHOWN) AND AT OPEN
- END OF COUNTER. BACKSCREW TO COUNTER, BOLT TO WALL. 17. WALL MOUNTED HAND SANITIZER DISPENSER. HOLD TOP AT
- 4'-4" AFF. 18. WALL MOUNTED PAPER TOWEL DISPENSER / WASTE
- RECEPTACLE. 19. GRAB BAR PER SHEET ADA.
- 20. WALL MOUNTED TOILET PAPER HOLDER. 21. WALL MOUNTED TOILET SEAT COVER DISPENSER.

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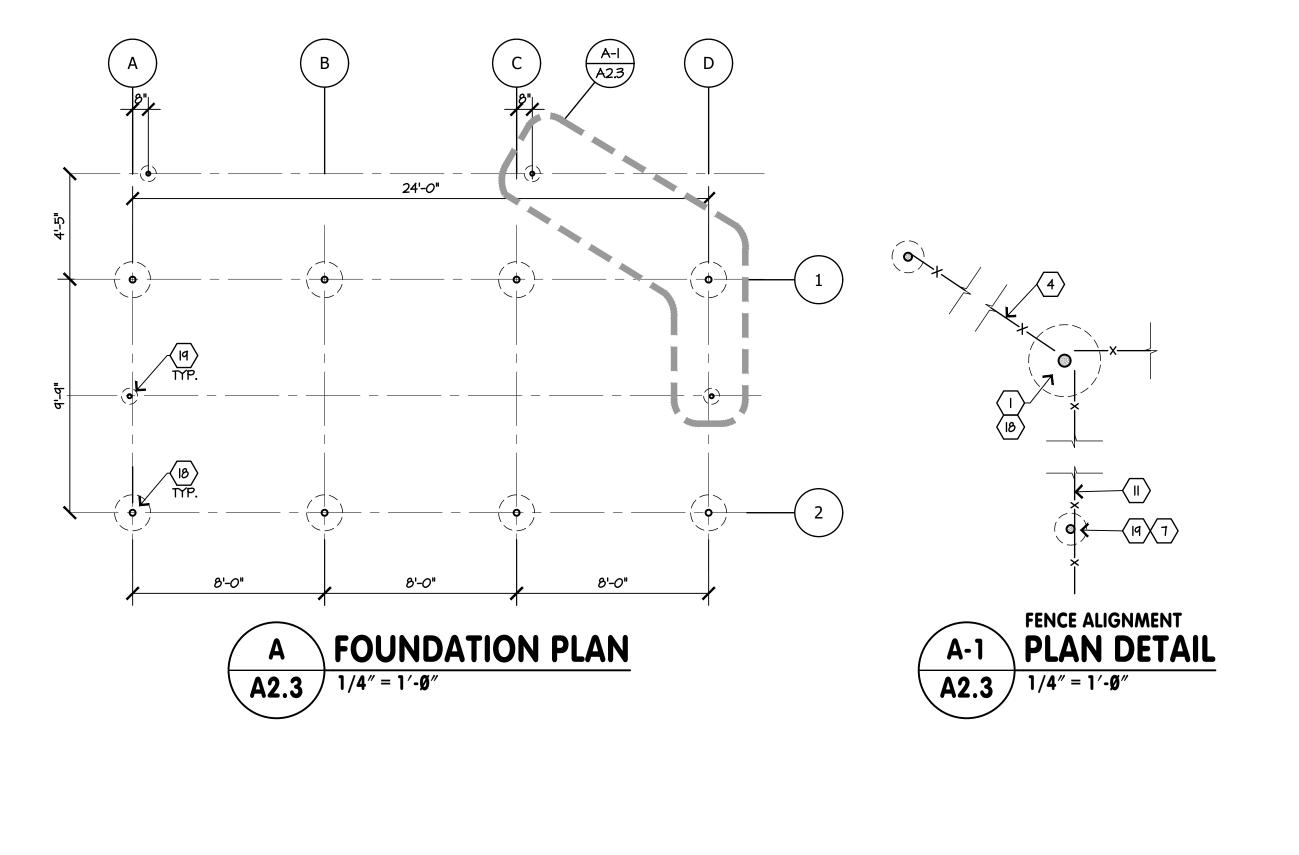
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**EQUIPMENT PLAN INTERIOR ELEV** & DETAILS



(22)/ (3)-

**DUGOUT** 

SECTION

(2I)→

8

TOP OF PATIO

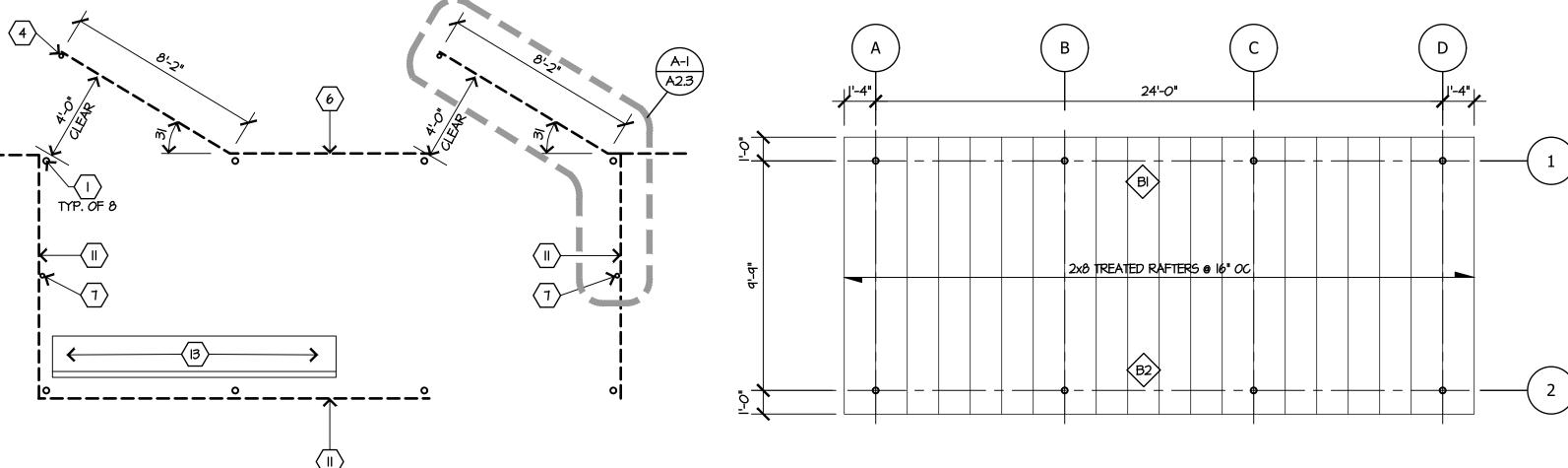
SLAB & ASPHALT

SEE CIVIL DWGS

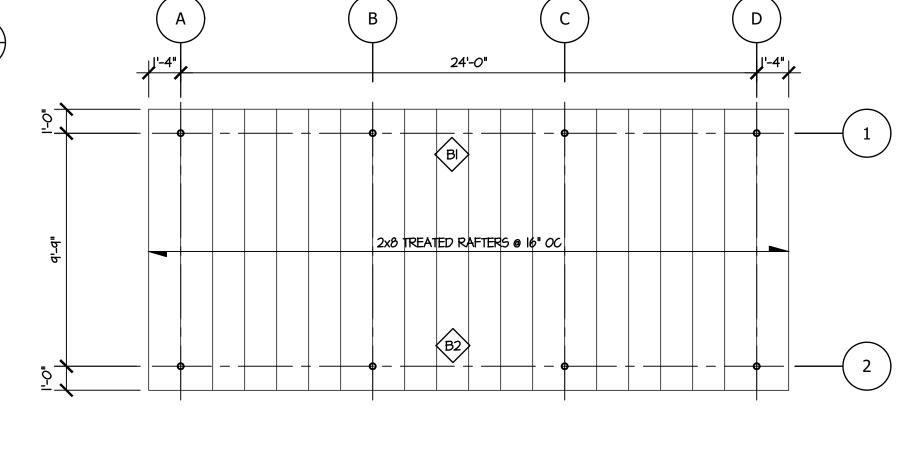
BEAM BEARING

TOP OF ASPHALT

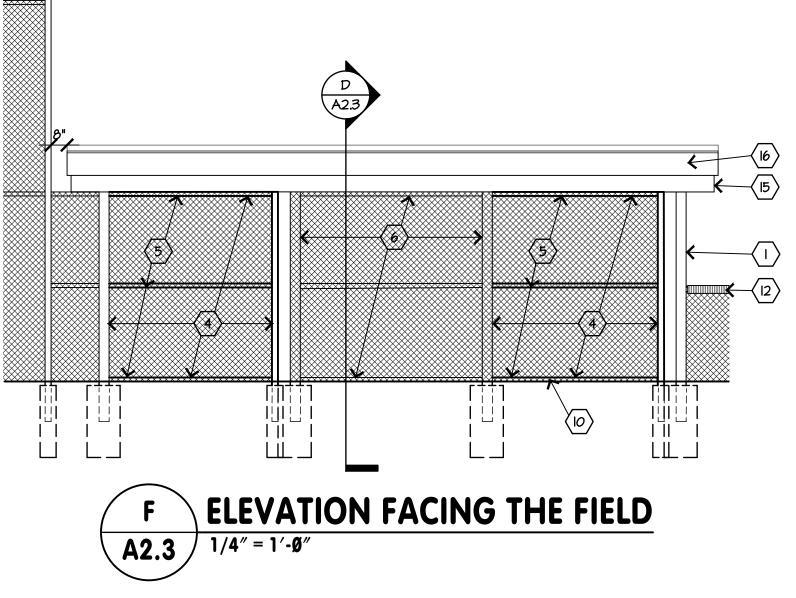
SEE CIVIL DWGS

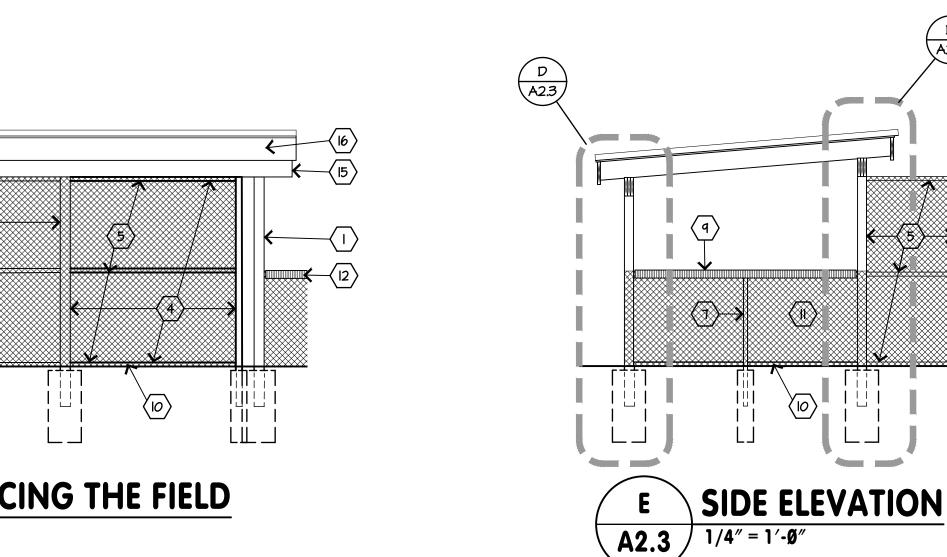


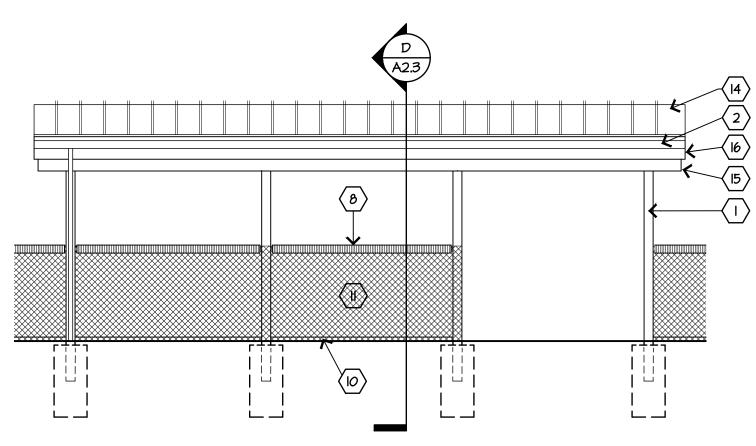
FLOOR PLAN **A2.3**  $1/4'' = 1' \cdot \emptyset''$ 



**ROOF FRAMING PLAN** A2.3 / 1/4" = 1'-0"







**ELEVATION FACING AWAY FROM FIELD** A2.3  $\sqrt{1/4'' = 1' - \emptyset''}$ 



- STRUCTURAL COLUMNS AT DUGOUTS TO BE 4" GALY STANDARD PIPE COLUMN SET 18" DEEP INTO 18" DIA x 36" DEEP CONCRETE PIER. PAINT COLOR AS SELECTED. TYP OF 8 AT PERIMETER OF EACH DUGOUT.
- 2. 4" CONTINUOUS FACTORY-PREFINISHED STEEL 'K' STYLE GUTTER. MATCH ROOFING COLOR. 3. WELD 4"x12"x1/4" GALY STEEL PLATE TO TOP OF DUGOUT COLUMN. SECURE ROOF BEAM TO
- PLATE WITH (4) 1/2" x 4" LAG BOLTS. PAINT COLOR AS SELECTED. TYPICAL. 4. FIXED 'GATE' AT FRONT SIDE OF DUGOUT TO BE 8'-10" HIGH VINYL COATED CHAIN LINK FENCE. TYP OF TWO AT EACH DUGOUT. AT OPEN END OF 'GATE', PROVIDE 3" O.D., 40 GAGE, VINYL COATED POST SET 18" INTO 12" DIA x 36" DEEP CONCRETE PIER. HOLD TOP OF PIER FLUSH WITH TOP OF ASPHALT UNDER PLAYING TURF. VINYL COATING COLOR AS
- 5. PROVIDE I 5/8" VINYL COATED TOP, INTERMEDIATE AND BOTTOM RAIL FROM POST TO ADJACENT DUGOUT COLUMN. SECURE VINYL FENCE FABRIC AS SPECIFIED TO FENCE POST & RAILS & DUGOUT COLUMN. SET BOTTOM RAIL ON TOP OF RUBBER TURF. VINYL COATING COLOR AS SELECTED.
- 6. 8'-10" HIGH VINYL COATED CHAIN LINK FENCE BETWEEN DUGOUT COLUMNS. SAME COMPOSITION AS FIXED GATE.
- 7. 2 3/8" OD, 40 GA., VINYL COATED POST AT MIDPOINT BETWEEN CORNER DUGOUT COLUMNS AT SIDES OF DUGOUT, COLOR AS SELECTED. HOLD FACE OF POST FLUSH WITH OUTSIDE FACE OF CORNER DUGOUT COLUMNS. SET POST 18" INTO 8"x36" DEEP CONCRETE PIER. HOLD TOP OF PIER FLUSH WITH TOP OF ASPHALT UNDER PLAYING TURF.
- 8. PROVIDE I 5/8" VINYL COATED FENCE RAIL AT 48" ABOVE PLAYING TURF BETWEEN DUGOUT COLUMNS. WRAP RAIL WITH CONTINUOUS 6" DIA CORRUGATED PLASTIC PIPE. SLICE BOTTOM OF CORRUGATED PIPE AS REQUIRED TO FIT SNUGLY OVER TOP FENCE RAIL. VINYL COATING AND CORRUGATED PIPE COLOR AS SELECTED.
- 9. PROVIDE I 5/8" VINYL COATED FENCE RAIL AT 48" ABOVE PLAYING TURF BETWEEN CORNER DUGOUT COLUMNS AND INTERMEDIATE FENCE POST. WRAP RAIL WITH CONTINUOUS 6" DIA CORRUGATED PLASTIC PIPE. SLICE BOTTOM OF CORRUGATED PIPE AS REQUIRED TO FIT SNUGLY OVER FENCE RAIL. VINYL COATING AND CORRUGATED PIPE COLOR AS
- 10. PROVIDE I 5/8" VINYL COATED BOTTOM FENCE RAIL AT TOP OF ASPHALT BETWEEN
- DUGOUT COLUMNS AND FENCE POSTS WHERE INDICATED. COLOR AS SELECTED. II. 4' HIGH VINYL COATED CHAIN LINK FENCE FABRIC AS SPECIFIED, SECURED TO DUGOUT
- COLUMNS AND FENCE POSTS AT SIDES AND REAR OF DUGOUT. COLOR AS SELECTED. 12. CONTINUOUS 6" DIA CORRUGATED PLASTIC PIPE. SLICE BOTTOM OF PIPE AS REQUIRED TO FIT SNUGLY OVER TOP FENCE RAIL. COLOR AS SELECTED.
- 13. PREFABRICATED PREFINISHED BENCH AS SPECIFIED. COLOR AS SELECTED BY OWNER. 14. STANDING SEAM METAL ROOF AS SPECIFIED, ON ROOF MFR'S CONTINUOUS SELF-ADHERING ICE AND WATER SHIELD ON 5/8" PLYWOOD ROOF DECK ON RAFTERS. ROOF COLOR AS
- 15. (3) TREATED 2x8 BEAM. SECURE BEAM TO TOP PLATE AT EACH DUGOUT COLUMN WITH (4)
- 1/2" x 4" LAG BOLTS. 16. TREATED 2x12 FASCIA. PAINT COLOR AS SELECTED.
- 17. 2" RUBBER PLAYING SURFACE TURF ON ASPHALT PAVING PER DETAIL C/AO.2. TURF COLORS AS INDICATED ON SHT AO.3.
- 18. 18" DIA x 36" DEEP CONCRETE PIER AT DUGOUT COLUMNS. TYP OF 8 AT EACH DUGOUT. 19. 8" DIA x 36" DEEP CONCRETE PIER AT 2 3/8" FENCE POSTS. TYP OF 2 AT EACH DUGOUT.
- 20. 16' HIGH VINYL COATED CHAIN LINK FENCE. 21. 2x3 FACTORY-PREFINISHED STEEL DOWNSPOUT (MATCH ROOF COLOR). AT SOUTH DUGOUT PROVIDE RECTANGULAR TO ROUND BOOT AT GRADE AND CONNECT UNDERGROUND STORM PIPE TO UG STORM DRAINAGE SYSTEM AT CONCESSIONS / RESTROOM BUILDING. AT NORTH DUGOUT, PROVIDE ELBOW TO CONCRETE SPLASH BLOCK AT GRADE FOR SURFACE

# **COMPLEX AND PARK AT** ACCESSIBLE SPORTS

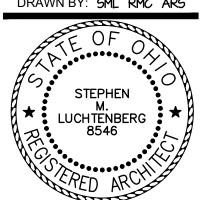
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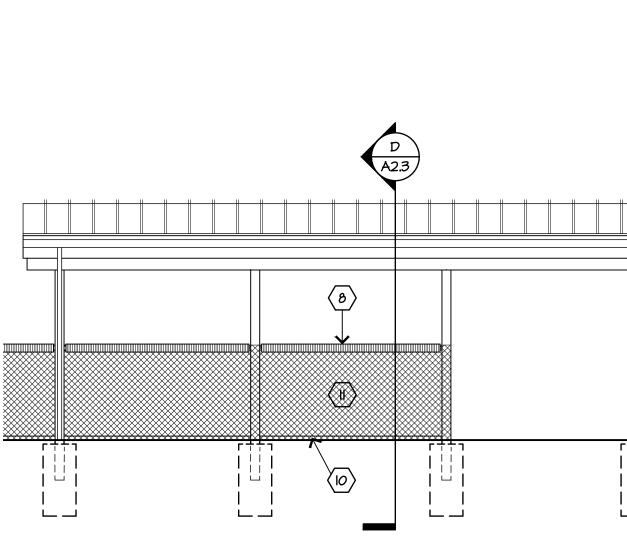
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**DUGOUT** PLAN, SECTION **ELEVATIONS** 

DRAWING NUMBER

22. SIMPSON #3 HURRICANE TIES AT BOTH ENDS OF EACH RAFTER.



CONCESSIONS BLDG EAST ELEVATION

CONCESSIONS BLDG NORTH ELEVATION

 $\binom{\mathsf{K}}{\mathsf{A4.I}}$ 

SEE A4.2 FOR ROOF CONSTRUCTION DETAILS

1/8" = 1'-0"

**RESTROOM BLDG** 

**WEST ELEVATION** 

A3.1

### CODED NOTES

- 8x8x16 SPLIT FACE CMU, COLOR AS SELECTED BY
- 2. 8x8x16 GROUND FACE CMU W/ CENTER SCORE (2 COURSES) - COLOR AS SELECTED BY OWNER.
- 3. STANDING SEAM METAL ROOFING, COLOR AS SELECTED BY OWNER.

  4. TREATED GLU-LAM TRUSS W BOLTED BLACK STEEL

  1. TREATED GLU-LAM TRUSS W BOLTED BLACK STEEL
- GUSSET PLATES AND CONNECTION BRACKETS.
- PASS THRU COUNTER. METAL SIDING, COLOR AS SELECTED BY OWNER. ROLL-UP SERVICE COUNTER SHUTTER.
- DOWNSPOUT (SHOWN DASHED) TIE INTO UNDERGROUND STORM DRAINAGE SYSTEM. COLOR AS SELECTED BY
- 9. METAL FASCIA TO MATCH ROOFING.
  10. EXTERIOR LOUVER FOR THRU-WALL FAN. SEE HVAC
- II. 18"X18" EXHAUST FAN LOUVER SEE MECH DWGS. COLOR AS SELECTED. 12. POST MOUNTED LIGHT AS SPECIFIED.
- I3. LAMINATED WOOD DECKING FACTORY FINISH COLOR AS SELECTED BY OWNER.
  I4. GLULAM BEAM, SEE A2.I FOR DETAIL.
  I5. CONTROL JOINT SEE TYPICAL CONTROL JOINT
- DETAIL ON SHEET AI.3.

AND COMPLEX SPORTS ACCESSIBLE

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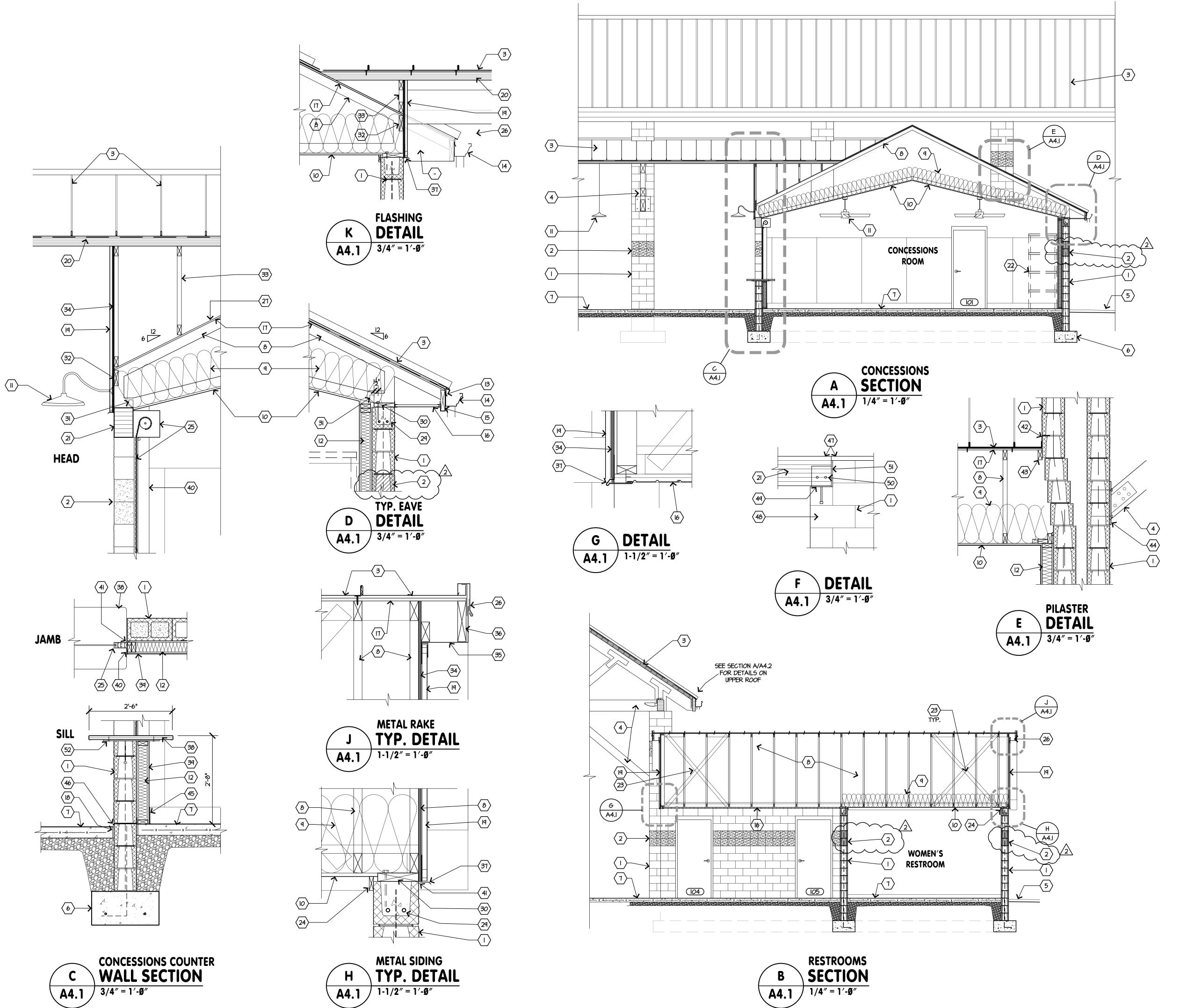
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**EXTERIOR ELEVATIONS** 



### CODED NOTES

- 8x8x16 SPLIT FACE CMU WALL w/ #4 REBAR @ 48" O.C. VERT. IN GROUTED CELLS AND HORIZONTAL TRUSS-TYPE REINFORCING @ 16" O.C. FILL OPEN CELLS w/ VERMICULITE
- 2. 8x8x16 GROUND FACE CMU w/ CENTER SCORE (2 COURSES) 3. STANDING SEAM METAL ROOFING OVER MFR.
- 4. 5/8" WIDE GLU-LAM TRUSS SEE AI.2 FOR TRUSS DETAILS 5. GRADE - VARIES - SLOPE MIN 5% TO 10'-0" AWAY FROM
- 6. CONCRETE FOOTING SEE FOUNDATION PLAN FOR DETAILS 7. 4" CONCRETE FLOOR OVER 6 mil VAPOR BARRIER OVER 4" GRAVEL BASE ON UNDISTURBED EARTH OR COMPACTED
- FILL. SEE FOUNDATION PLAN SHT ALI FOR DETAILS 8. WOOD TRUSSES @ 24" O.C. - SEE ROOF FRAMING PLAN FOR DETAILS
- 9. R-30 FIBERGLASS BATT INSULATION

UNDERLAYMENT

- 10. %" TEXTURED DRYWALL CEILING
- II. LIGHT FIXTURE SEE ELECTRICAL PLANS FOR DETAILS 12. WOOD FRAME WALL W/ 2X4 STUDS @ 16" O.C. W/ 1 PAINTED DRYWALL ON EXPOSED SIDES - FILL CAVITIES W/ R-15
- FIBERGLASS BATT INSULATION 13. METAL ROOFING DRIP EDGE TRIM
- 14. "K" STYLE GUTTER 15. 2x8 ROUGH FASCIA W/ METAL WRAP TO MATCH ROOFING
- 16. VENTED VINYL SOFFIT
- 17. %" PLYWOOD ROOF SHEATHING 18. ½" EXPANSION MATERIAL
- 19. METAL SIDING TO MATCH METAL ROOFING 20. 4-PLY LAMINATED DECKING
- 21. GLU-LAM BEAM SEE AI.2 FOR SIZE AND DETAILS 22. METAL SHELVING
- 23. DIAGONAL TRUSS BRACING

ANCHORS @ 12" O.C.

- 24. IX3 TRIM PAINT TO MATCH DRYWALL 25. OVERHEAD SHUTTER AND PULL DOWN CONCESSIONS DOOR 26. METAL ROOFING RAKE FASCIA
- 27. VAPOR BARRIER UNDERLAYMENT 28. ROLLING SHUTTER JAMB ASSEMBLY (DRIVE SIDE SHOWN),
- AS SPECIFIED SEE MFR INFO FOR MORE DETAIL 29. BOND BEAM w/ (2) #4 REBAR CONTINUOUS 30. CONTINUOUS P.T. 2x8 TOP PLATE w/1/2" DIA. x 6" TITEN HD
- 31. SIMPSON H3 HURRICANE TIE AT EACH TRUSS 32. 2x6 BLOCKING BETWEEN EACH TRUSS
- 33. WOOD OVERFRAMING TRUSS SEE ROOF FRAMING PLAN *O*N AI.2 34. 1/2" PLYWOOD SHEATHING W/ WEATHER-RESISTANT BARRIER
- 35. METAL SOFFIT TO MATCH METAL ROOFING 36. 2x8 ROUGH RAKE W/ METAL WRAP TO MATCH ROOFING
- 37. METAL SIDING SILL TRIM W/ DRIP EDGE
- 38. GRANITE COUNTER. COLOR AS SELECTED. 39. FRP PANELS ADHERED TO DRYWALL TO 6'-6" A.F.F. 40. WRAP FRP PANELS AROUND CORNER AT CONCESSIONS
- WINDOW JAMB. PROVIDE FRP TRIM AS NECESSARY. 41. CAULKING W/ BACKER ROD 42. METAL ROOFING RAKE WALL + REGLET COUNTERFLASHING
- 43. 2x4 LEDGER 44. PROVIDE 16 x 16" AREA OF SMOOTH FACE CMU FOR
- MOUNTING STEEL TRUSS BRACKETS 45. 6" VINYL COVE BASE
- 46. SELF-ADHERING THRU-WALL COPPER FLASHING
- 47. TOP OF BEAM TO BE FLUSH W/ CONT. P.T. TOP PLATE 48. GROUT 8" x (3) COURSES SOLID AT BEARING POINTS
- 49. 7" x 7" x 3%" GALV. & POWDER COATED STEEL BEARING PLATE w/ (2) 5 0 x 6 HEADED STUDS
- 50. 7" x 7" x 1/4" GALV. & POWDER COATED STEEL PLATE EACH SIDE OF BEAM w/ (2)  $\frac{3}{4}$ " $\phi$  GALV. THRU-BOLTS - SHOP WELD PLATES TO BEARING PLATE (CODED NOTE #49)
- 51. MAINTAIN 1 AIR GAP BETWEEN GLU-LAM BEAM AND CMU WALL - CÂULK AT EXTERIOR FACE
- 52. 4" W x 20" L x ¼" GALV. STEEL PLATES w/ 8" HEADED STUD EMD. IN GROUTED CELLS @ 24" O.C.

OMP OR SP SIB S

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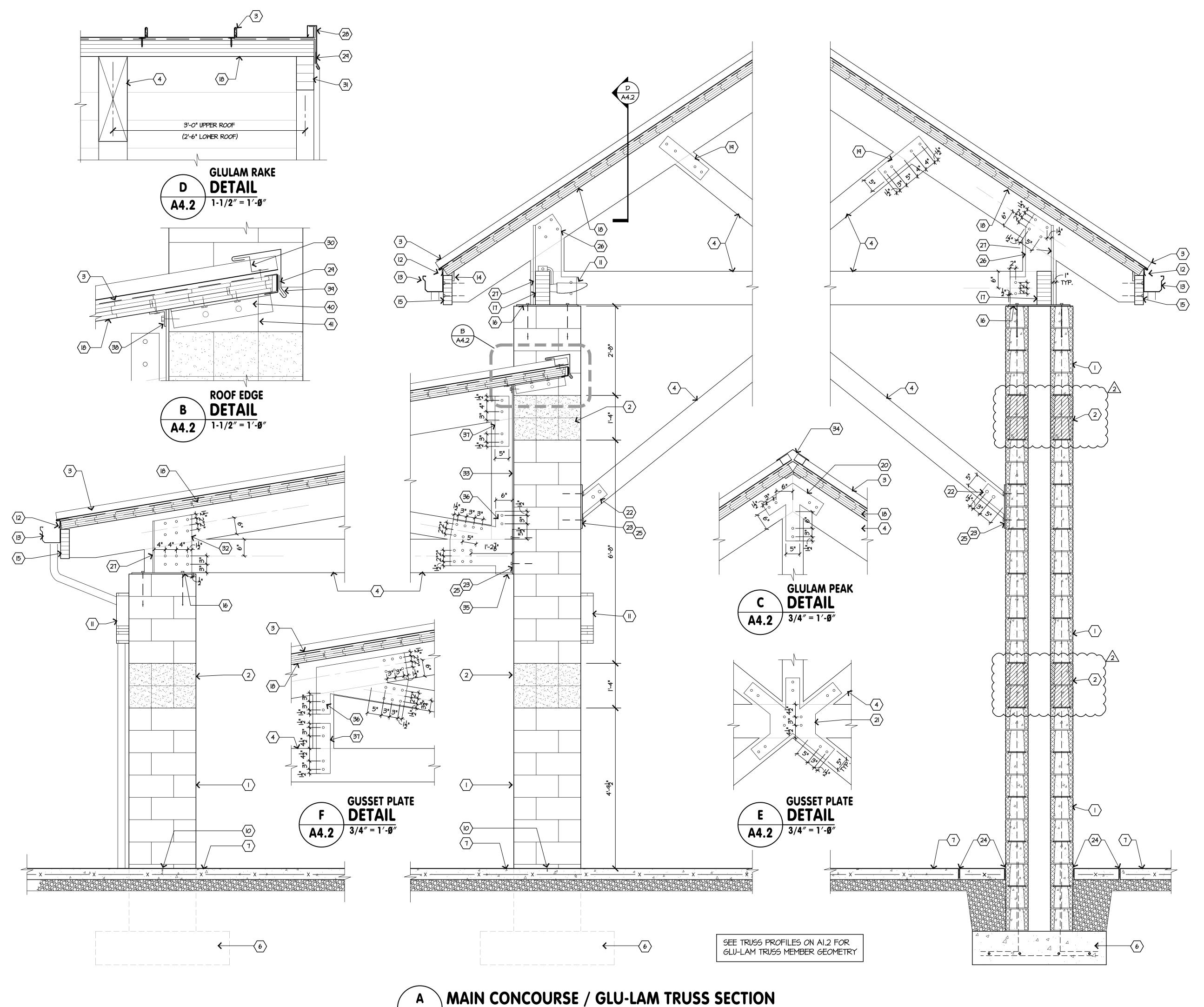
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DRAWN B	Y: SML	. RMC. ARS

M. LUCHTENBERG

License No. 8546
Expiration Date: December 31, 2021

**SECTIONS** 



### CODED NOTES

- 8x8x16 SPLIT FACE CMU PIER w/ #4 REINFORCING BARS IN EACH CELL (8), AND TRUSS-TYPE HORIZONTAL REINFORCING
- 2. 8X8XI6 GROUND FACE CMU w/ CENTER SCORE (2 COURSES) 3. STANDING SEAM METAL ROOFING OVER UNDERLAYMENT BY
- METAL ROOFING MFR. 4. GLU-LAM TRUSSES - SEE AI.2 FOR TRUSS DIMENSIONS AND
- 5. GRADE VARIES SLOPE MIN 5% TO 10'-0" AWAY FROM
- BUILDING 6. CONCRETE FOOTING - SEE FOUNDATION PLAN ON AI.I FOR
- 7. 4" CONCRETE SLAB OVER 6 mil VAPOR BARRIER OVER 4" GRAVEL BASE ON UNDISTURBED EARTH OR COMPACTED
- FILL SEE SLAB PLAN ON ALI FOR DETAILS 8. WOOD TRUSSES @ 24" O.C. - SEE ROOF FRAMING PLAN ON AI.2 FOR DETAILS
- 9. R-30 FIBERGLASS BATT INSULATION IO. SAW CUT FOR CONTROL JOINT - SEE SLAB PLAN ON AI.I
- FOR LAYOUT AND NOTES
- II. LIGHTING FIXTURE SEE ELECTRICAL PLANS FOR DETAILS 12. METAL ROOFING DRIP EDGE TRIM
- 13. CONTINUOUS METAL GUTTER TO MATCH METAL ROOFING 14. CONTINUOUS IX4 TRIM - SPECIES AND FINISH TO MATCH LAMINATED DECKING
- 15. 3=" X 10 1/2" GLU-LAM FASCIA W/ (2) 5%" \$ X 7" GALV. LAG
- SCREMS AT EACH TRUSS (COUNTER-BORED) 16. 22" x 22" x ½" GALV. STEEL PLATE w/ (4) ½" \$\phi\$ x 12" EMB. ANCHOR RODS (GA=16")
- 17. 5%" x 12" GLU-LAM BEAM 18. 4-PLY LAMINATED DECKING
- 19. 1/4" X 5" WIDE GALV. & POWDER COATED STEEL PLATE
- EACH SIDE OF TRUSS w/ (4)  $\frac{3}{4}$ "  $\phi$  GALV. THRU-BOLTS 20. ¼" GALV. \$ POWDER COATED STEEL GUSSET PLATE EACH
- SIDE OF TRUSS w/ (6) 34" Ø GALV. THRU-BOLTS 21. 1/4" GALV. & POWDER COATED STEEL GUSSET PLATE EACH
- SIDE OF TRUSS W/ (14) 3/4" Ø GALV. THRU-BOLTS 22. 1/4" x 5" WIDE GALV. & POWDER COATED PLATE EACH SIDE
- OF TRUSS w/ (2)  $\frac{3}{4}$ "  $\phi$  GALV. THRU-BOLTS 23. 16" x 16" x ½" GALV. & POWDER COATED STEEL PLATE W/ (4) 3/4" Ø x 4" GALV. WEDGE ANCHORS EMB. IN GROUTED CMU
- 24. COLUMN ISOLATION JOINT W/1/2" EXPANSION MATERIAL -SEE SLAB PLAN ON ALI FOR ISOLATION JOINT LAYOUT AND
- 25. PROVIDE 16" x 16" PANEL OF SMOOTH FACE CMU BEHIND TRUSS MOUNTING PLATE
- 26. 3/4" GALV. & POWDER COATED STEEL PLATE EACH SIDE OF TRUSS w/ (6)  $\frac{3}{4}$ "  $\phi$  GALV. THRU-BOLTS
- 27. 1/2" GALV. & POWDER COATED STEEL STIFF PLATE ON EACH SIDE OF TRUSS - PROVIDE (2) 3/4" GALV. THRU-BOLTS AT UPPER ROOF TRUSSES TO CONNECT GLU-LAM BEAM BETWEEN TRUSSES (CODED NOTE #17)
- 28. METAL ROOFING RAKE EDGE
- 29. METAL ROOFING CLEAT
- 30. METAL ROOFING Z-CLIP
- 31. 3%" X 6" GLU-LAM FASCIA 32. 以" GALV. & POWDER COATED STEEL PLATE EACH SIDE OF
- TRUSS w/ (12) 34" Ø GALV. THRU-BOLTS 33. HOLD GLU-LAM TRUSS AWAY FROM FACE OF SPLIT-FACE
- CMU FOR ½" AIR GAP 34. METAL ROOFING RIDGE CAP
- 35. 1/2" X 6" GALV. & POWDER COATED STEEL PLATE 36. 1/2" GALV. & POWDER COATED STEEL PLATE EACH SIDE OF
- TRUSS w/ (14) 34" Ø GALV. THRU-BOLTS 37. 1/4" x 5" x 18" GALV. & POWDER COATED STEEL PLATE EACH
- SIDE OF TRUSS w/ (4) 3/4" Ø GALV. THRU-BOLTS 38. %" x 3" x 3" X 9" LONG GALV. & POWDER COATED STEEL
- BENT PLATE EACH SIDE OF TRUSS W/ (2) ½" \$\phi \times 2\pm' \text{GALV.}

  SLEEVE ANCHORS @ 7" O.C. EMB. INTO MASONRY + (3) #12 x

  3" SCREWS @ 3" O.C. INTO LAMINATED DECKING

  39. METAL ROOFING PEAK TRIM W/ DRIP EDGE
- 40. GALV. & POWDER COATED STEEL L3x3x% x 18" w/ (2) 2" Ø
- x 2 1/4" GALV. SLEEVE ANCHORS (GA=6") 41. PROVIDE SMOOTH FACE CMU ON 3 SIDES OF PIER WHERE

LOWER ROOF INTERSECTS PIER

# 4 SIB

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COMMISSION

L-2018										
ISSUE MARK DATE										
PERMIT		4-5-21								
ADDENDUM 2	2	5-7-21								

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**SECTIONS** 

**A4.2** 

ALTERNATE BID #1: GC'S COST FOR PURCHASE AND INSTALLATION OF ALL RUBBER PLAYING FIELD TURF. NOTE - THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID ALL SURVEYING REQUIRED FOR FIELD TURF LAYOUT, AND ALL SPECIFIED FIELD TURF PAINTING.

ALTERNATE BID #2: GC'S COST FOR PURCHASE AND INSTALLATION OF SPECIFIED WIRE SHELVING, STAINLESS STEEL WORK TABLES, GLASS DOOR REFRIGERATORS AND GLASS TOP FREEZER. ALTERNATE BID #3: IN LIEU OF ALL GLULAM ROOF TRUSSES AND ASSOCIATED PAINTED GALVANIZED STEEL GUSSET PLATES AND BLOTS, THE G.C. TO PROVIDE (3) THREE-PLY PRE-ENGINEERED ROOF TRUSSES WITH 2x12 TOP AND BOTTOM CHORDS AND 2x6 WEB MEMBERS. ALL EXPOSED SURFACES OF THESE PRE-ENGINEERED TRUSSES ARE TO BE COVERED WITH STAINED IX ROUGH-SAWN CEDAR BOARDS SCREWED TO THE TRUSSES

0003. PROJECT TIMELINE AND ESTIMATED CONSTRUCTION COST THE ESTIMATED DURATION OF THE PROJECT IS ESTIMATED TO BE 20 WEEKS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. THE ESTIMATED CONSTRUCTION COST OF THE BASE BID PORTION OF THE PROJECT IS \$1,110,700.

0004. OWNER, OWNER'S REP AND CONTACT INFORMATION THE OWNER OF THE FACILITY IS THE FAIRFIELD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES. THE ARCHITECTS, STEVE LUCHTENBERG AND RYAN CARPICO, OF VPL ARCHITECTS, INC, LANCASTER, OHIO (140-654-4048) SHALL ACT AS THE OWNER'S REPRESENTATIVES; ALL QUESTIONS AND INQUIRIES DURING BIDDING AND CONSTRUCTION SHOULD BE DIRECTED TO THEM.

0005. SITE UTILIZATION AND PROTECTION ALL TOOLS, EQUIPMENT, MATERIAL STORAGE, CONTRACTOR PARKING, DELIVERIES, ETC MUST BE KEPT WITHIN THE THE PROJECT LIMIT LINE AS SHOWN ON THE SITE UTILIZATION PLAN. THE CONTRACTOR SHALL PROVIDE A TEMPORARY 8' HIGH FENCE AROUND ALL PORTIONS OF THIS AREA WHERE CONSTRUCTION ACTIVITY, STORAGE OF MATERIALS, DELIVERIES AND CONTRACTOR PARKING OCCURS. ALL CONSTRUCTION RELATED PERSONNEL AND MATERIAL DELIVERY PERSONNEL SHALL STRICTLY ADHERE TO THE SITE ACCESS PATH SHOWN ON THE SITE UTILIZATION PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT FROM DAMAGE DUE TO CONSTRUCTION ALL EXISTING BUILDINGS, PLAYGROUND EQUIPMENT, FENCING, PAVING, SIGNAGE, SIDEWALKS, ETC THAT ARE ADJACENT TO THE PROJECT SITE AND THE SITE ACCESS PATH, AND SHALL RESTORE ANY SAID ITEMS THAT ARE DAMAGED DUE TO CONSTRUCTION TO THEIR ORIGINAL CONDITION PRIOR TO CONSTRUCTION.

0006. USE OF LOUD RADIOS, CD PLAYERS, ETC SHALL BE PROHIBITED ON SITE WHILE SCHOOL IS IN SESSION. SMOKING IS PROHIBITED ON THE SCHOOL PROPERTY.

0007. THIS PROJECT IS NOT PREVAILING WAGE.

a. ALL GENERAL CONTRACTOR BIDS ARE TO BE HAND DELIVERED OR MAILED VIA THE POSTAL SERVICE BE OPENED. IN ORDER TO BE CONSIDERED COMPLETE, ALL BIDS SHALL INCLUDE THE FOLLOWING: THE OWNER'S BID FORM, FULLY EXECUTED IN DUPLICATE, WITH ALL BLANKS FILLED, AND SIGNED AND DATED BY THE GC. BID FORM SHALL BE ISSUED TO BIDDERS VIA ADDENDUM.

a.b. LIABILITY INSURANCE CERTIFICATES AS FOLLOWS: (SEE ARTICLE 0009 BELOW FOR ADDITIONAL INFORMATION)

COMMERCIAL GENERAL LIABILITY AUTO LIABILITY UMBRELLA / EXCESSIVE LIABILITY

#3,000,000 PER OCCURANCE BUILDER'S RISK DRUG FREE WORK PLACE CERTIFICATION.

RESUMES OF THE BIDDER'S PROPOSED IN-HOUSE PROJECT MANAGER AND PROJECT SITE SUPERINTENDENT, INCLUDING A LIST OF 5 PROJECTS OF SIMILAR SIZE AND COMPLEXITY; COMPLETED BY EACH ONE IN THE PAST 5 YEARS.  $\,$  THIS PROJECT LIST IS TO CONTAIN CONTACT INFO FOR THE OWNER'S REP OF EACH PROJECT

\$1,000,000

THE PROPOSED PROJECT MANAGER AND PROJECT SITE SUPERINTENDENT MUST SPEAK ENGLISH AS THEIR PRIMARY LANGUAGE AND MUST HAVE AT LEAST FIVE YEARS OF EXPERIENCE IN THEIR CURRENT CAPACITY.

b. ALL BIDS WILL BE CONSIDERED VALID FOR A PERIOD OF 60 DAYS FROM BID DATE. THE BID WILL BE EVALUATED BASED UPON, BUT NOT LIMITED TO, THE FOLLOWING c.a. IF THE BIDDER HAS ADEQUATE PERSONNEL AND EQUIPMENT TO DO THE WORK SAFELY,

PROPERLY AND EXPEDITIOUSLY WITHIN THE ALLOTTED CONSTRUCTION TIME FRAME. IF THE BIDDER HAS THE FINANCIAL BASE TO MEET THE OBLIGATIONS INCIDENTAL TO THE WORK, c.c. IF THE BIDDER AND THE BIDDER'S PROPOSED OVERSIGHT PERSONNEL HAVE APPROPRIATE **EXPERIENCE** 

c.d. IF THE BID FORM IS, IN DUPLICATE, COMPLETELY FILLED OUT AND SIGNED, c.e. IF THE BID FORM HAS NO INSERTED QUALIFYING PHRASES OR NUMERICAL ERRORS.

c.f. IF THE BID PACKET CONTAINS ALL REQUIRED CERTIFICATES AND DOCUMENTATION. d. BY SIGNING THE BID FORM, THE BIDDER ACKNOWLEDGES THAT HE HAS CAREFULLY EXAMINED THE

PROJECT SITE AND PREMISES, AND FROM HIS OBSERVATIONS, IS SATISFIED AS TO THE NATURE OF THE WORK, THE CONSTRAINTS OF THE SITE AND SURROUNDING PROPERTIES AND PUBLIC SPACES, THE QUALITY OF THE MATERIALS AND ANY DIFFICULTIES LIKELY TO BE ENCOUNTERED, AND ANY OTHER OIO6. ALTERNATES ITEMS WHICH MAY AFFECT THE PERFORMANCE OF THE WORK, AND IS SATISFIED THAT THE PLANS AND SPECIFICATIONS FOR THE PROJECT ADEQUATELY DESCRIBE THE PROJECT SCOPE AND REQUIREMENTS. HE FURTHER ACKNOWLEDGES THAT HIS BID IS SOLEY BASED ON THESE CONSTRUCTION DOCUMENTS, INCLUDING ANY ADDENDA, AND HAS NOT RELIED IN ANY WAY ON ANY EXPLANATION OR INTERPRETATION, ORAL OR WRITTEN, FROM ANY OTHER SOURCE. THE BIDDER AGREES TO HOLD THE OWNER HARMLESS FOR HIS POTENTIAL NEGLIGENCE, ERROR OR OMISSIONS e. THE OWNER RESERVES THE RIGHT TO WAIVE ALL FORMALITIES WITH THE BID PROCESS AND / OR TO

REJECT ANY OR ALL BIDS FOR ANY REASON IF SO DEEMED TO BE IN THE BEST INTEREST OF THE

0009. PREFERRED SUBCONTRACTORS AND SUPPLIERS

a. THE OWNER HAS WORKING RELATIONSHIPS WITH THE FOLLOWING SUBCONTRACTORS AND SUPPLIERS. BIDDING GC'S ARE ENCOURAGED TO CONSIDER THESE ENTITIES IN THEIR PROJECT TEAM: I. CLAYPOOL ELECTRICAL CONTRACTING (LANCASTER)

2. STATE ELECTRIC SUPPLY COMPANY (LANCASTER) 3. SEALS CONSTRUCTION - EXCAVATING (CANAL WINCHESTER) 4. FENCE SOLUTIONS (LANCASTER)

5. SAUDER'S HARDSCAPES SUPPLY (NEW HOLLAND, PA. 717-354-5570)

0010. PRE-BID SITE VISITS

a. A BRIEF PRE BID MEETING WILL BE CONDUCTED ON SITE BY THE ARCHITECT AT 10:00 AM ON TUESDAY, APRIL 20, 2021. ALL ATTENDING PARTIES SHALL PARK AT THE FAR NORTH END OF THE EXISTING PARKING LOT ADJACENT TO THE PROJECT SITE AND SHALL MEET AT THE EXISTING OPEN SHELTER HOUSE NORTH OF THE PARKING LOT. SUFFICIENT TIME WILL BE GIVEN TO THE CONTRACTORS TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS THROUGHOUT THE SITE. FAILURE TO DO SO WILL NOT BE REGARDED AS A BASIS FOR FUTURE 'ADD' CHANGE ORDERS

b. INTERESTED BIDDERS WILL BE GIVEN ONE ADDITIONAL INFORMAL OPPORTUNITY TO VISIT THE SITE AND PREMISES FROM 10:00 AM TO NOON ON APRIL 27 2021. BIDDERS MAY NOT VISIT THE SITE AT ANY OTHER TIME PRIOR TO THE BID DATE.

OOIO. INSURANCE CERTIFICATE REQUIREMENTS

THE SUCCESSFUL BIDDER SHALL NOT COMMENCE ANY WORK ON THIS PROJECT UNTIL WRITTEN CERTIFICATES OF INSURANCE HAVE BEEN SUBMITTED TO AND APPROVED BY THE OWNER. a. WORKER'S COMPENSATION INSURANCE: THE CONTRACTOR SHALL PROCURE AND MAINTAIN, DURING THE LIFE OF THE CONTRACT, WORKER'S COMPENSATION INSURANCE, AS REQUIRED BY THE STATE, FOR ALL THEIR EMPLOYEES ENGAGED IN WORK AT THE SITE OF THE PROJECT UNDER THIS CONTRACT. IN CASE ANY CLASS OF WORKER ENGAGED IN WORK ON THE PROJECT UNDER THIS CONTRACT IS NOT PROTECTED UNDER THE WORKMEN'S COMPENSATION STATUTE, THE CONTRACTOR SHALL PROVIDE WRITTEN PROOF OF ADEQUATE EMPLOYER'S LIABILITY INSURANCE FOR THE PROTECTION OF SUCH

b. CONTRACTOR'S PUBLIC LIABILITY, PROPERTY DAMAGE INSURANCE, AND VEHICLE LIABILITY INSURANCE: THE CONTRACTOR SHALL PROCURE AND MAINTAIN THIS INSURANCE DURING THE LIFE OF THIS CONTRACT, IN THE AMOUNTS REQUIRED BY THE OWNER. THE POLICY:

. SHALL INCLUDE ENDORSEMENT CG 20 10 85 OR EQUIVALENT THAT NOTES THE OWNER AS ADDITIONAL INSURED FOR CLAIMS CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR'S NEGLIGENT ACTS OR OMISSIONS DURING THE WORK.

2. SHALL NOT EXCLUDE COVERAGE TO THE ADDITIONAL INSURED FOR BODILY INJURY OR PROPERTY DAMAGE ARISING OUT OF THE PRODUCTS/COMPLETED OPERATIONS HAZARD. 3. SHALL NOT CONTAIN WORDING "ENDEAVOR TO" OR "BUT FAILURE TO DO SO SHALL IMPOSE NO

OBLIGATION OR LIABILITY OF ANY KIND UPON INSURER, ITS AGENTS OR REPRESENTATIVES" OR "THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER" OR ANY OTHER LIKE PROVISIONS.

4. THE CERTIFICATE SHALL SHOW THE TYPE, AMOUNT, CLASS OF OPERATIONS COVERED AND EFFECTIVE DATES OF COMMENCEMENT AND EXPIRATION.

5. THE CERTIFICATE SHALL CONTAIN THE STATEMENT "THE INSURANCE COVERED BY THIS CERTIFICATE WILL NOT BE CANCELED OR MATERIALLY ALTERED EXCEPT AFTER TEN DAYS WRITTEN NOTICE HAS BEEN RECEIVED BY THE ADDITIONALLY INSURED."

c. SCOPE OF INSURANCE AND SPECIAL HAZARDS: THE INSURANCE REQUIRED HEREIN SHALL PROVIDE ADEQUATE PROTECTION FOR THE CONTRACTOR AGAINST DAMAGE CLAIMS WHICH MAY ARISE FROM OPERATIONS UNDER THIS CONTRACT, WHETHER SUCH OPERATIONS BE BY THE INSURED OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THEM AND ALSO AGAINST ANY OF THE SPECIAL HAZARDS WHICH MAY BE ENCOUNTERED IN THE PERFORMANCE OF THIS CONTRACT.

0010. d. IF THE CONTRACTOR'S WORKER'S COMPENSATION INSURANCE OR LIABILITY INSURANCE IS CANCELED OR LAPSES FOR ANY REASON, WORK SHALL CEASE UNTIL A NEW INSURANCE POLICY, AS ACCEPTED BY THE OWNER, IS IN PLACE. THE GC WILL NOT BE GRANTED AN EXTENSION OF TIME FOR COMPLETION OF THE WORK.

OOII. FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR: a. TYPE AS APPROVED BY THE OWNER.

DOCUMENTS PRIOR TO BID SUBMITTAL.

0012. NOTICE OF COMMENCEMENT: ALSO KNOWN AS "NOTICE OF PROJECT COMMENCEMENT" OR THE "AFFIDAVIT OF COMMENCEMENT" IS THE OFFICIAL DOCUMENT THAT DECLARES THE EXACT START DATE OF A CONSTRUCTION PROJECT.

a. THE OWNER SHALL OBTAIN, COMPLETE, AND RECORD (FILE) THE NOTICE OF COMMENCEMENT WITH COUNTY WHERE THE PROJECT IS LOCATED IN ACCORDANCE WITH THE OHIO REVISED CODE (ORC)

b. A COPY OF THE NOTICE OF COMMENCEMENT MUST BE POSTED BY THE GC AT THE PROJECT SITE. 0013. NOTICE OF FURNISHING: THE ORC REQUIRES MOST PARTIES WHO FURNISH LABOR AND/OR MATERIALS ON CONSTRUCTION PROJECTS TO SEND NOTICE OF FURNISHING IN ORDER TO SECURE LIEN RIGHTS. a. SUBMIT NOTICE OF FURNISHING IN ACCORDANCE WITH ORC 1311.05.

SUBSTITUTION REQUESTS, RFI'S AND DISCREPENCIES IN THE DRAWINGS THAT ARE FOUND DURING THE BIDDING PERIOD NEED TO BE BROUGHT TO THE ARCHITECT'S ATTENTION NO LATER THAN SEVEN

WORKING DAYS PRIOR TO THE BID DATE IN ORDER TO BE CONSIDERED FOR THE FINAL ADDENDUM THAT WILL BE PUBLISHED APPROXIMATELY 12 HOURS PRIOR TO THE BID DATE AND TIME. I. ALL ADDENDA BECOME A PART OF THE CONTRACT DOCUMENTS AND MODIFY THE BIDDING

2. BIDDER SHALL ACKNOWLEDGE RECEIPT OF ALL ADDENDA IN THE SPACES PROVIDED IN THE PROPOSAL / BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

0015. IF THE CONTRACTOR OBSERVES THAT THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH ANY APPLICABLE CODE, LAW, ORDINANCE, RULE OR REGULATION, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT. IF THE CONTRACTOR OR ANY SUBCONTRACTOR PERFORMS WORK KNOWING IT TO BE CONTRARY TO ANY APPLICABLE CODE, LAW, ORDINANCE, RULE OR REGULATION AND DOES (OIIO. THE ARCHITECT WILL PROVIDE CONSTRUCTION OBSERVATION ON THIS PROJECT AND WILL REPRESENT SO WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL BE FULLY LIABLE FOR THAT WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH BRINGING THE WORK INTO CODE

OOI6. THE ARCHITECT AND THEIR CONSULTANTS ARE THE AUTHORS AND OWNERS OF THEIR RESPECTIVE DRAWINGS AND GENERAL NOTES AND RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHTS AND OTHER RESERVED RIGHTS. THIS INCLUDES ALL INTERPRETIVE SKETCHES AND ELECTRONIC DATA AS (OIII. PRE-CONSTRUCTION SUBMITTALS IT RELATES TO THE DRAWINGS AND GENERAL NOTES. THE CONTRACTOR, THEIR SUBCONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS ARE AUTHORIZED TO USE AND REPRODUCE THE DRAWINGS AND GENERAL NOTES SOLELY AND EXCLUSIVELY FOR THE EXECUTION OF THE WORK ON THIS PROJECT. ALL COPIES ARE TO INCLUDE THE NAME OF THE PROJECT, THE NAME OF THE ARCHITECT, THE NAME(S) OF THEIR CONSULTANT(S) (IF APPLICABLE) AND THE COPYRIGHT NOTICE. THE USE OF THE DRAWINGS, GENERAL NOTES, INTERPRETIVE SKETCHES OR ELECTRONIC DATA ON OTHER PROJECTS OR FOR ADDITIONS TO THIS PROJECT THAT ARE OUTSIDE THE SCOPE OF WORK IS

DIVISION 1 - GENERAL REQUIREMENTS

OIOI. ALL WORK SHALL FULLY COMPLY WITH THE STANDARDS REQUIRED BY THE 2017 EDITION OF THE OHIO, BUILDING CODE (OBC), FOR USE GROUP "A-5", HAVING "3-B" CONSTRUCTION TYPE, AS WRITTEN HEREIN. \

TO THE OFFICE OF VPL ARCHITECTS, INC., 1426 EAST MAIN STREET, LANCASTER, OHIO 43130, AND ARE OIO2. BEFORE BEGINNING THE WORK AND AS WORK PROGRESSES, FIELD DETERMINE AND VERIFY ALL DUE NO LATER THAN 2:00 PM. (TUESDAY, MAY 4 WEDNESDAY, MAY 12 2021). EMAILED BIDS WILL NOT DIMENSIONS AND ELEVATIONS AND VERIFY ALL LOCATIONS OF PLUMBING, HVAC, ELECTRICAL WO DIMENSIONS AND ELEVATIONS AND VERIFY ALL LOCATIONS OF PLUMBING, HVAC, ELECTRICAL WORK

0103. THE CURRENT EDITIONS OF THE FOLLOWING CODES AND STANDARDS, WHETHER OR NOT SPECIFICALLY REFERENCED, ARE APPLICABLE TO THE WORK AND TO EACH GENERAL NOTES SECTION: a. OHIO BUILDING CODE

b. OHIO MECHANICAL CODE c. OHIO PLUMBING CODE

d. OHIO FUEL GAS CODE e. NATIONAL ELECTRIC CODE

f. AMERICAN SOCIETY OF SAFETY ENGINEERS AIO SERIES

q. NATIONAL FIRE PROTECTION ASSOCIATION 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS h. NATIONAL FIRE PROTECTION ASSOCIATION 70, NATIONAL ELECTRIC CODE

OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION 29 CFR 1910.12, CONSTRUCTION WORK OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION 29 CFR 1926, CONSTRUCTION STANDARDS

ICC/ANSI AIIT.I, STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 0104. TESTING SERVICES PROVIDED BY THE CONTRACTOR. SEE ARTICLE 0135 \$/ a. INDEPENDENT AGENCY TESTING OF CONCRETE.

b. INDEPENDENT AGENCY TESTING OF STRUCTURAL STEEL WELDS AND BOLTED CONNECTIONS. 0105. ALLOWANCES a. IF USED, ALLOWANCES WILL BE LISTED ON THE PROPOSAL / BID FORM.

b. ALLOWANCES SHALL INCLUDE COST TO THE CONTRACTOR OF SPECIFIC PRODUCTS AND MATERIALS ORDERED BY OWNER OR SELECTED BY ARCHITECT UNDER ALLOWANCE AND SHALL INCLUDE FREIGHT, INSURANCE, AND DELIVERY TO THE PROJECT SITE.

c. UNLESS OTHERWISE INDICATED, CONTRACTOR'S COSTS FOR RECEIVING AND HANDLING AT PROJECT SITE, LABOR, INSTALLATION, OVERHEAD AND PROFIT, AND SIMILAR COSTS RELATED TO PRODUCTS AND MATERIALS UNDER ALLOWANCE SHALL BE INCLUDED AS PART OF THE CONTRACT SUM AND NOT PART OF THE ALLOWANCE.

a. DEFINITION: AN AMOUNT PROPOSED BY BIDDERS AND STATED ON THE PROPOSAL / BID FORM FOR CERTAIN WORK DEFINED IN THE BIDDING REQUIREMENTS THAT MAY BE ADDED TO OR DEDUCTED FROM THE BASE BID AMOUNT IF OWNER DECIDES TO ACCEPT A CORRESPONDING CHANGE EITHER IN THE AMOUNT OF CONSTRUCTION TO BE COMPLETED OR IN THE PRODUCTS,

DOCUMENTS. I. ALTERNATES DESCRIBED IN THIS SECTION ARE PART OF THE WORK ONLY IF ENUMERATED IN THE AGREEMENT.

MATERIALS, EQUIPMENT, SYSTEMS, OR INSTALLATION METHODS DESCRIBED IN THE CONTRACT

2. THE COST OR CREDIT FOR EACH ALTERNATE IS THE NET ADDITION TO OR DEDUCTION FROM THE CONTRACT SUM TO INCORPORATE ALTERNATE INTO THE WORK. NO OTHER ADJUSTMENTS ARE MADE TO THE CONTRACT SUM.

3. SEE ARTICLE 0002 FOR SCHEDULE OF ALTERNATES:

a. BIDS ARE TO BE SUBMITTED ON THE BASIS OF THE STANDARDS ESTABLISHED BY THE DRAWINGS AND THESE GENERAL NOTES. IF DURING THE BID PERIOD, BIDDERS DESIRE CONSIDERATION OF PRODUCTS THAT ARE NOT NAMED AS STANDARDS, THEY MUST SUBMIT WRITTEN REQUESTS TO THE ARCHITECT FOR REVIEW AND EVALUATION NOT LESS THAN SEVEN BUSINESS DAYS BEFORE THE DATE FOR RECEIPT OF BIDS. TELEPHONE AND ORAL REQUESTS FOR

PRODUCT SUBSTITUTION WILL NOT BE CONSIDERED. b. SUBMISSION OF PROPOSED SUBSTITUTION SHALL INCLUDE: I. DESCRIPTION OF THE PRODUCT: TRADE NAME, MODEL/CATALOG NUMBER, ETC.

MANUFACTURER'S NAME, ADDRESS, TELEPHONE NUMBER, AND POINT OF CONTACT 3. NAME OF FABRICATOR, SUPPLIER AND INSTALLER (IF APPLICABLE) AND CONTACT INFO.

4. SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND ALL OTHER INFORMATION NECESSARY FOR A THOROUGH EVALUATION. 5. A TYPE WRITTEN STATEMENT IDENTIFYING ALL POTENTIAL CHANGES IN OTHER MATERIALS, EQUIPMENT AND/OR SYSTEMS RESULTING FROM PROPOSED SUBSTITUTION.

c. SUBSTITUTIONS THAT WOULD REQUIRE SUBSTANTIAL REVISIONS TO THE CONSTRUCTION DOCUMENTS WILL NOT BE CONSIDERED d. THE BURDEN OF PROOF OF THE MERIT OF A PROPOSED SUBSTITUTION IS THE RESPONSIBILITY OF THE PROPOSER. THE ARCHITECT SHALL NOT BE EXPECTED TO DO BACKGROUND RESEARCH FOR ANY PROPOSALS. INSUFFICIENT SUBMITTALS WILL BE REJECTED.

e. SUBSTITUTIONS ACCEPTED AFTER THE AWARD OF THE CONTRACT SHALL BE HANDLED THROUGH CHANGE ORDER. . SUBMITTAL OF A MFR'S BROCHURE ILLUSTRATING THEIR ENTIRE LINE OF PRODUCTS, BUT WITHOUT CLEAR IDENTIFYING MARKINGS NOTING THE SUBSTITIONARY ITEM WILL BE REJECTED.

a. SCHEDULE OF VALUES: NO LATER THAN TEN CALENDAR DAYS FROM NOTICE TO PROCEED, THE CONTRACTOR IS TO PROVIDE TO THE OWNER OR OWNER'S REPRESENTATIVE FOR REVIEW AND

I. AN UPDATED SCHEDULE OF VALUES, THAT SUBSTANTIATES THE CONTRACTOR'S RIGHT TO PAYMENT, SHALL BE INCLUDED WITH EACH APPLICATION FOR PAYMENT.

b. PAY APPLICATION: UTILIZING A FORMAT ACCEPTABLE TO THE OWNER OR THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL SUBMIT THREE SETS TO THE OWNER OR OWNER'S REPRESENTATIVE NO LATER THAN THE FIFTEENTH OF EACH MONTH. SHALL LIST ALL APPROVED CHANGE ORDERS

2. SHALL INCLUDE CONTRACTOR AND THEIR SUBCONTRACTOR PARTIAL, CONDITIONAL UPON PAYMENT, WAIVERS OF LIEN IN THE FORMAT OUTLINED IN STATE OF OHIO REVISED CODE. c. THE OWNER SHALL MAKE PAYMENT TO THE CONTRACTOR WITHIN THIRTY DAYS OF RECEIPT OF THE PAY APPLICATION, HOWEVER, THE OWNER OR THE OWNER'S REPRESENTATIVE RESERVE THE RIGHT TO WITHHOLD PAY, IN WHOLE OR IN PART, TO SUCH EXTENT AS MAY BE NECESSARY TO PROTECT THE OWNER FROM LOSS BECAUSE OF:

DEFECTIVE WORK NOT REMEDIED. 2. DAMAGE CAUSED BY THE CONTRACTOR.

3. DELAYS CAUSED BY THE CONTRACTOR, SUBCONTRACTORS AND/OR MATERIAL SUPPLIERS. F. RETAINAGE: TEN PERCENT (10%) WILL BE HELD IN ESCROW FROM EACH PAY REQUEST UNTIL THE PROJECT IS FIFTY PERCENT (50%) COMPLETED. FROM THAT POINT THROUGH COMPLETION OF THE PROJECT A FIVE PERCENT (5%) RETAINAGE WILL BE WITHHELD.

a. RETAINAGE WILL BE RELEASED UPON FINAL ACCEPTANCE OF THE BUILDING BY THE OWNER OR THE OWNER'S REPRESENTATIVE OWNER AND THE OWNER'S RECEIPT OF TRAINING AND CLOSE-OUT

0109. CHANGE ORDERS a. THE OWNER, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER CHANGES IN THE WORK

CONSISTING OF ADDITIONS, DELETIONS OR OTHER REVISIONS. b. TO THE EXTENT THAT THE TIME FOR CONTRACT COMPLETION OR THE CONTRACT PRICE IS

AFFECTED, THE CONTRACT MAY BE ADJUSTED BY CHANGE ORDER. c. THE CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGE IN THE WORK WITHOUT WRITTEN AUTHORIZATION. FAILURE OF THE CONTRACTOR TO OBTAIN A CHANGE ORDER PRIOR TO PROCEEDING WITH WORK THAT AFFECTS THE CONTRACT COST, OR THE TIME FRAME FOR CONTRACT COMPLETION, WAIVES THE CONTRACTOR'S RIGHT TO REQUEST ADDITIONAL TIME OR COMPENSATION BEYOND THE CONTRACT.

d. CHANGE ORDERS SHALL BE HANDLED AS FOLLOWS: I. THE CONTRACTOR SHALL DISCUSS THE PROPOSED CHANGE, ALL RELATED ISSUES AND ALL AFFECTED WORK WITH THE OWNER OR THE OWNER'S REPRESENTATIVE. 2. THE CONTRACTOR SHALL SUBMIT TO THE OWNER A DETAILED BULLETIN OUTLINING THE EXTENT OF THE CHANGES AND ALL AFFECTED ASPECTS OF THE PROJECT, ASSOCIATED COSTS,

INCLUDING THE FOLLOWING LINE ITEM INFORMATION: a) CONTRACTOR'S LABOR COSTS. b) LABOR PAYROLL TAXES, WORKMAN'S COMP, FRINGES, ETC.

c) EQUIPMENT RENTAL (IF ANY). d) DETAILED LIST OF DEDUCTED ITEMS INCURRED BY THE CHANGES TO THE WORK, IF

e) OVERHEAD (TELEPHONE, FACSIMILE, POSTAGE, SCAFFOLDING, OFFICE LABOR, ETC.). f) MATERIAL QUANTITIES AND COSTS. a) PROFIT ON ITEMS "a" THROUGH "f."

n) SUBCONTRACTOR'S COST TO THE CONTRACTOR. I) CONTRACTOR'S MARK UP ON SUBCONTRACTOR'S COST. j) LENGTH OF REQUESTED TIME EXTENSION (IF APPLICABLE)

3. UPON REVIEW AND ACCEPTANCE OF THE SUBMITTED BULLETIN BY THE OWNER, THE CONTRACTOR SHALL PREPARE A CHANGE ORDER OUTLINING THE PROPOSED CHANGES IN THE WORK AND ALL ADJUSTMENTS TO THE CONTRACT COST AND THE CONTRACT COMPLETION TIME. UPON RECEIPT OF SAID CHANGE ORDER SIGNED BY THE OWNER, THE CONTRACTOR SHALL PROCEED WITH THE CHANGES TO THE WORK.

THE OWNER. THE ARCHITECT, AND HIS CONSULTANTS, SHALL NOT BE HELD RESPONSIBLE, HOWEVER, FOR THE ACTS OR OMISSIONS OR VARIATIONS FROM THE DRAWINGS AND THESE GENERAL NOTES BY THE OWNER, CONTRACTOR, ANY SUBCONTRACTOR OR THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSON PERFORMING OR SUPERVISING ANY OF THE WORK.

a. AT LEAST TWO WEEKS PRIOR TO THE ONSET OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING DOCUMENTS TO THE ARCHITECT FOR APPROVAL:

I. PROJECT SCHEDULE. THIS SHALL ILLUSTRATE, IN DETAILED GRAPHIC FORM, THE CONTRACTOR'S PLANNED SCHEDULE FOR ALL FACETS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, DELIVERIES OF MATERIALS, SHOP DRAWING SUBMITTALS, CONSTRUCTION PROGRESS MEETINGS, START AND FINISH DATES OF WORK TO BE DONE (BROKEN OUT BY TRADE, ROUGH-IN, FINISH, ETC), DATE OF SUBSTANTIAL COMPLETION, AND PUNCH LIST. 2. SCHEDULE OF VALUES. CONTRACTOR SHALL USE AIA FORM 6703 AND SHALL LIST ALL COMPONENTS OF THE PROJECT UTILIZING STANDARD CSI DIVISIONS AND SUBDIVISIONS. 3. SCHEDULE OF SUBMITTALS.

3.1. INFORMATION ON THE SCHEDULE OF SUBMITTALS IS TO INCLUDE THE SECTION REFERENCE, A BRIEF DESCRIPTION OF WHAT IS BEING SUBMITTED (PRODUCT DATA, SHOP DRAWINGS, TESTING DATA, SAMPLES, ETC.), ORDER LEAD TIME AND THE INTENDED DATE OF SUBMISSION TO THE ARCHITECT.

3.2. THE CONTRACTOR SHALL PROVIDE THE SCHEDULE OF SUBMITTALS TO THE ARCHITECT IN ELECTRONIC PDF COPY AND HARD COPY. UPDATES TO THIS SCHEDULE ARE TO BE MADE, WITH ALL REVISIONS CLEARLY IDENTIFIED, AND SENT TO THE ARCHITECT TWO DAYS PRIOR TO EACH PROGRESS MTG.

4. CONTRACTOR'S BUILDER'S RISK INSURANCE CERTIFICATE FOR THIS PROJECT.

OII2. SHOP DRAWING SUBMITTALS a. FOR EACH DIVISION SECTION SUBMITTAL AND RE-SUBMITTAL, A MINIMUM TEN CALENDAR DAYS (NOT.) INCLUDING DELIVERY TIME) IS TO BE ALLOWED FOR REVIEW BY THE ARCHITECT. A MINIMUM FIFTEEN (15) CALENDAR DAYS (NOT INCLUDING DELIVERY TIME) IS TO BE ALLOWED FOR REVIEW OF

STRUCTURAL STEEL b. ACCEPTANCE OF ELECTRONIC SUBMISSION OF SUBMITTALS WILL BE DETERMINED BY THE

c. EACH SUBMITTAL IS TO CONTAIN ANY AND ALL INFORMATION NECESSARY FOR THE ARCHITECT AND) ENGINEER TO REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. I. PRODUCT DATA, DETAILS, TESTING DATA, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS MAINTENANCE INSTRUCTIONS, TEMPLATES, CARE INSTRUCTIONS, SAMPLES, ETC

2. SEPARATE ITEMS OF AN ASSEMBLY WILL BE REVIEWED ONLY IF ALL ITEMS OF THE ASSEMBLY ARE INCLUDED IN THE SUBMITTAL. INCOMPLETE SUBMITTALS WILL BE SUMMARILY REJECTED. 3. INFORMATION (i.e., ITEM, MODEL NUMBER, FINISH, ETC.) SHALL BE CLEARLY MARKED BY ARROW, UNDERLINE, CIRCLE, ETC. USE OF COLORED HIGH-LIGHTERS TO MARK INFORMATION WILL NOT BE 0128. DEFINITIONS

4. INCOMPLETE SUBMITTALS OR SUBMITTALS NOT ANNOTATED AS REVIEWED AND APPROVED BY THE CONTRACTOR WILL NOT BE ACCEPTED OR REVIEWED. d. EACH SUBMITTAL IS TO HAVE A COVER SHEET THAT IS CLEARLY LABELED WITH THE CONTRACTOR'S)

NAME, ADDRESS AND TELEPHONE NUMBER, THE NAME AND ADDRESS OF THE PROJECT, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE INSTALLING CONTRACTOR OR MATERIAL SUPPLIER, REFERENCE TO THE SPECIFICATION SECTION WITH DESCRIPTION AND THE CONTRACTOR'S SUBMITTAL STAMP ACKNOWLEDGING REVIEW AND APPROVAL. PROVIDE AMPLE SPACE ON THE COVER SHEET FOR ARCHITECT AND ENGINEER REVIEW STAMPS.

I. THE CONTRACTOR'S APPROVAL SHALL INDICATE REVIEW AND APPROVAL OF THE CORRECTNESS AND COMPLETENESS OF SHOP DRAWINGS, SAMPLES, PRODUCT DATA AND TEST DATA FOR FIT, FIELD CONNECTIONS, ELEVATIONS, DIMENSIONING (INCLUDING FIELD MEASUREMENTS), ACCURACY OF QUANTITIES, VERIFICATION OF CATALOG/PRODUCT/ITEM NUMBERS, COORDINATION AND PERFORMANCE OF THE WORK BETWEEN EACH TRADE AND COMPLIANCE WITH THE CONTRACT

e. SUBMITTALS INVOLVING ENGINEERING DESIGN SERVICES SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER, CURRENTLY REGISTERED IN THE STATE OF OHIO, FOR THE DISCIPLINE

SUBMITTALS THAT REQUIRE COLOR OR PATTERN SELECTIONS BY THE ARCHITECT SHALL BE SUBMITTED HARD COPY, WITH MANUFACTURER'S ORIGINAL COLOR PALETTE BROCHURE OR COLOR SAMPLE KIT INCLUDED. COPIES OF COLOR PALETTES, OR ELECTRONIC SUBMISSION OF COLOR PALETTES WILL NOT BE REVIEWED. WHEN HARD COPIES ARE SUBMITTED, A MINIMUM OF FOUR ARE TO BE SUBMITTED; TWO OF WHICH WILL BE RETURNED TO THE CONTRACTOR AT COMPLETION OF REVIEW BY THE ARCHITECT AND ENGINEER. THE CONTRACTOR IS TO PROVIDE ADDITIONAL AS REQUIRED

g. ONE COPY OF EACH SUBMITTAL, BEARING THE ARCHITECT'S AND/OR ENGINEER'S ORIGINAL STAMP AND SIGNATURE, SHALL BE MAINTAINED AT THE JOBSITE AT ALL TIMES. h. PROCEDURES AND TIME FRAMES INDICATED IN THIS SPECIFICATION SECTION WILL APPLY TO ALL

SUBMITTALS DEEMED BY THE ARCHITECT TO BE REJECTED OR REVISED AND RESUBMITTED. THE CONTRACTOR IS RESPONSIBLE FOR DISSEMINATION OF ARCHITECT AND ENGINEER REVIEWED SUBMITTALS TO THEIR SUBCONTRACTORS, SUPPLIERS, ETC. THE CONTRACTOR'S REVIEW AND APPROVAL STAMP OR OTHER APPROVAL METHODS OF THE VARIOUS DESIGNATED APPROVAL AUTHORITIES SHALL NOT BE THE SAME AS THOSE OF THE

ARCHITECT. HANDWRITTEN NOTES AND SIGNATURES ON THE SUBMITTAL BY THE CONTRACTOR, THEIR) SUBCONTRACTORS OR THEIR SUPPLIERS ARE TO BE IN BLUE INK. k. REVIEW OF SUBMITTALS BY THE ARCHITECT AND ENGINEER SHALL NOT RELIEVE THE CONTRACTOR. FROM THE RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE DRAWINGS, ASSOCIATED CALCULATIONS OR FROM DEVIATIONS IN THE CONTRACT DOCUMENT UNLESS THE DEVIATIONS ARE

SPECIFICALLY AND CLEARLY CALLED TO THE ARCHITECT'S ATTENTION IN THE LETTER OF TRANSMITTAL AND WITHIN THE SUBMITTAL. REVIEW OF THE SUBMITTAL BY THE ARCHITECT AND ENGINEER DOES NOT INCLUDE VERIFICATION OF DIMENSIONS OR ELEVATIONS OR QUANTITIES AND SHALL NOT RELIEVE THE CONTRACTOR OF ANY

RESPONSIBILITY, INCLUDING RESPONSIBILITY FOR ACCURACY AND AGREEMENT OF DIMENSIONS, ELEVATIONS AND DETAILS. m. THE ARCHITECT AND ENGINEER REVIEW STAMP ACTION BLOCKS WILL HAVE THE FOLLOWING

I. "REVIEWED" MEANS THAT IN THE ARCHITECT'S OPINION, THE SUBMITTAL GENERALLY APPEARS TO CONFORM TO THE RESPECTIVE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ACTUAL QUANTITIES OF COMPONENTS, FABRICATION METHODS, ASSEMBLY PROCESSES, MANUFACTURING, INSTALLATION, APPLICATION AND ERECTION PROCEED AS ILLUSTRATED AND DESCRIBED IN THE SUBMITTAL COMPLY WITH THE CONSTRUCTION DOCUMENTS.

2. "REVIEWED AS CORRECTED" MEANS THAT THE SUBMITTAL GENERALLY APPEARS TO CONFORM TO THE RESPECTIVE REQUIREMENTS OF THE CONTRACT DOCUMENTS UPON INCORPORATION OF THE REVIEWER'S CORRECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ACTUAL QUANTITIES OF COMPONENTS, FABRICATION METHODS, ASSEMBLY PROCESSES, MANUFACTURING. INSTALLATION. APPLICATION AND ERECTION PROCEED AS CORRECTED ILLUSTRATED AND DESCRIBED IN THE SUBMITTAL COMPLY WITH THE CONSTRUCTION DOCUMENTS.

3. "REVISE AND RESUBMIT" MEANS THAT WITHIN THE SUBMITTAL THERE IS INFORMATION THAT REQUIRES CORRECTION BY THE SUBMITTER, RESUBMITTAL AND REVIEW PRIOR TO PROCEEDING WITH FABRICATION, ASSEMBLY, MANUFACTURE, INSTALLATION, APPLICATION AND ERECTION. PROCEDURES AND TIME FRAMES INDICATED IN THIS SPECIFICATION SECTION WILL APPLY. 4. "REJECTED" MEANS THAT THE SUBMITTAL IS DEFICIENT TO THE DEGREE THAT THE REVIEWER CANNOT CORRECT THE SUBMITTAL WITH A REASONABLE DEGREE OF EFFORT AND THAT THE REVIEWER HAS NOT MADE A THOROUGH REVIEW OF THE SUBMITTAL. THE SUBMITTAL NEEDS TO

BE CORRECTED BY THE CONTRACTOR AND RESUBMITTED. PROCEDURES AND TIME FRAMES

OII3. DURING THE CONSTRUCTION PERIOD, MAINTAIN DATE AND TIME STAMPED PHOTOGRAPHIC EVIDENCE OF THE WORK, PROVIDE AN ORGANIZED SET IN THE OWNER'S CLOSE-OUT DOCUMENTION, THIS INCLUDES, BUT IS NOT NECESSARILY LIMITED TO: a. EXISTING CONDITIONS PRIOR TO THE START OF DEMOLITION; b. EXISTING CONDITIONS THAT HAS BEEN UNCOVERED THAT WAS CONCEALED IN WALLS, FLOORS AND

ABOVE THE CEILING; C. NEW WORK CONCEALED IN WALLS, FLOORS AND ABOVE THE CEILING: d. DAMAGE TO ADJACENT FINISHES PRIOR TO REPAIR OR REPLACEMENT;

INDICATED IN THE SPECIFICATION SECTION WILL APPLY.

e. DAMAGE TO NEW FINISHES PRIOR TO REPAIR OR REPLACEMENT.

OII4. ALL WORK IS TO BE INSTALLED STRAIGHT, PLUMB, LEVEL AND IN TRUE ALIGNMENT, SHIMMING AS REQUIRED. ALL SHIMS ARE TO BE CONCEALED. ALL WORK SHALL BE NEATLY AND ACCURATELY FITTED, SCRIBED AND THOROUGHLY SECURED. MITERS AND OTHER JOINTS SHALL BE PLANED AND SANDED. ALL WORK SHALL BE LEFT CLEAN AND FREE FROM WARP, TWIST, OPEN JOINTS AND OTHER

OII5. STORED MATERIALS AND EQUIPMENT REQUIRED TO BE ON SITE SHALL BE IN OWNER APPROVED DESIGNATED STAGING AREAS. STORAGE TRAILERS, CONTAINERS, ETC. SHALL BE FURNISHED AND PAID BY THE CONTRACTOR.

a. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PROTECTION OF MATERIALS AND EQUIPMENT STORED AT THE PROJECT SITE. THE OWNER AND THE ARCHITECT WILL DECIDE ALL QUESTIONS THAT MAY ARISE AS TO THE QUALITY

OR ACCEPTABILITY OF MATERIALS FURNISHED AND THE WORK PERFORMED. THE ARCHITECT WILL DECIDE ALL QUESTIONS REGARDING THE INTERPRETATION OF THE DRAWINGS AND GENERAL NOTES.

OR OTHER MEANS OF EGRESS DURING CONSTRUCTION OPERATIONS.

PERIODIC PROJECT SITE VISITS AND PROGRESS MEETINGS

Oll9. NOT USED.

0120. ALL WORK AND MATERIALS SHALL MEET OR EXCEED ALL APPLICABLE REFERENCED AND NOT REFERENCED STANDARDS, FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS AND CONFORM TO CODES AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION.

0121. INSTALLATION OF ALL MATERIAL IS TO BE IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

0122. WHEN THE OWNER HAS RECORDED AND ISSUED THE NOTICE OF COMMENCEMENT, THE CONTRACTOR IS a. PROCEED IMMEDIATELY WITH THE WORK; b. REFER TO GENERAL NOTES SECTION OII3 AND OTHER DIVISIONS IN THESE GENERAL NOTES FOR

SUBMITTAL AND OTHER DOCUMENTATION THAT IS TO BE PROVIDED; AND WITHIN SEVEN (7) I. COORDINATE, WITH THE OWNER AND THE OWNER'S REPRESENTATIVE, THE SCHEDULE FOR

2. DISTRIBUTE TO THE OWNER AND THE OWNER'S REPRESENTATIVE, THE FINAL VERSION OF THE CONSTRUCTION SCHEDULE IN HARD COPY AND EMAIL IN PDF FORMAT 3. SUPPLY AND COMPLETE THE AGREEMENT BETWEEN OWNER AND CONTRACTOR AND FORWARD

4. SUBMIT, TO THE OWNER, COPIES OF THEIR WORKER'S COMPENSATION AND LIABILITY INSURANCE

0123. THE OWNER WILL OBTAIN AND PAY FEES FOR THE PLAN APPROVAL / BUILDING PERMITS FROM THE 0139. IN ADDITION TO THE OTHER REQUIREMENTS INDICATED IN THE GENERAL NOTES, THE CONTRACTOR JURISDICTION HAVING AUTHORITY (AHJ). UNLESS OTHERWISE NOTED, OTHER FEDERAL, STATE, COUNTY

0124. THE CONTRACTOR AND EACH SUBCONTRACTOR WILL BE REQUIRED TO REGISTER WITH THE BUILDING

AND LOCAL PERMITS REQUIRED FOR THE WORK SHALL BE OBTAINED BY AND PAID FOR BY THE

DEPARTMENT HAVING JURISDICTION AND PAY ALL APPROPRIATE FEES BEFORE THE START OF WORK.  $\langle$ 0125. INSPECTIONS OF INSTALLED WORK, AS ARRANGED BY THE CONTRACTOR, SHALL BE PERFORMED BY THE ENTITY HAVING JURISDICTION. WORK SHALL NOT BE COVERED UNTIL APPROVED BY INSPECTION a. TAKING PHOTOGRAPHS OF WORK TO BE COVERED IN LIEU OF PHYSICAL INSPECTION BY THE AHJ WILL REQUIRE PRIOR AUTHORIZATION BY THE AHJ AND THE ARCHITECT.

COI26. THE CONTRACTOR SHALL OBTAIN AND PAY FOR THE FOLLOWING SERVICES REQUIRED FOR THE PROJECT.

a. SITE SURVEY WORK. I. FIELD DETERMINING AND VERIFYING THE EXACT LOCATIONS OF THE BUILDING(S), CANOPY PARKING AREAS, AND DRIVEWAYS.

2. FIELD DETERMINING AND VERIFYING THE EXACT LOCATION AND DEPTH OF ALL NEW AND EXISTING GAS, WATER, SANITARY, STORM WATER SYSTEMS AND ELECTRICAL UTILITIES. 3. FIELD DETERMINING AND VERIFYING NEW FINISHED FLOOR ELEVATIONS. 4. FIELD DETERMINING AND VERIFYING NEW AND EXISTING GRADE ELEVATIONS

b. ANY OTHER PROFESSIONAL ENGINEERING SERVICES SPECIFIED OR REQUIRED TO COMPLETE THE c. ENGINEERING/DESIGN FEES FOR WORK BY THE ELECTRICAL AND NATURAL GAS UTILITY

d. ANY ADDITIONAL TESTING AS REQUIRED TO COMPLETE THE WORK.

SOI27. DO NOT SCALE ANY DRAWINGS.

TO THE OWNER.

a. CONTRACT DOCUMENTS

THE AGREEMENT AND GENERAL SUPPLEMENTARY CONDITIONS TO THE AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR.

3. GENERAL NOTES

4. ADDENDA NOT RELATED TO BIDDING REQUIREMENTS

5. MODIFICATIONS IN THE FORM OF WRITTEN AMENDMENT TO THE AGREEMENT, CHANGE ORDER, CONSTRUCTION CHANGE DIRECTIVE OR WRITTEN ORDER FOR MINOR CHANGE IN THE WORK ISSUED BY THE OWNER ARCHITECT. CONSTRUCTION AND SERVICES OUTLINED IN AND REQUIRED BY THE CONTRACT DOCUMENTS 2. INCLUDES ALL COMPETENT AND QUALIFIED LABOR, MATERIALS, INSURANCES, FEES, BONDS, WARRANTIES, TAXES, PERMITS, INSPECTIONS, LICENSES, EQUIPMENT, TOOLS, STORAGE, HOISTING

COMPETENT AND QUALIFIED SUPERINTENDENCE AND ALL OTHER SERVICES, OTHER INCIDENTALS,

ASSURANCES AND GUARANTEES, ASSUMPTIONS OF RISK AND RESPONSIBILITY FOR THE COMPLETE PROJECT AND AND PERFORMANCE OF THE WORK AS SET FORTH IN THE CONTRACT c. CONTRACTOR - ADDITIONALLY REFERENCED AS GENERAL CONTRACTOR I. THE PERSON, ENTITY OR AUTHORIZED REPRESENTATIVE, SINGULAR OR PLURAL, IDENTIFIED IN CONTRACT DOCUMENTS AS BEING SOLELY RESPONSIBLE FOR THE PERFORMANCE OF THE

WORK SHOWN AND SPECIFIED ON THIS PROJECT. 2. SHALL SUPERVISE AND DIRECT THE WORK ON THE PROJECT. 3. SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR THE WORK ON THE PROJECT.

4. SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THEIR EMPLOYEES, SUBCONTRACTORS

AND THEIR AGENTS AND EMPLOYEES AND ANY OTHER PERSONS OR ENTITIES PERFORMING WORK ON THIS PROJECT. 5. SHALL BE RESPONSIBLE FOR INSPECTING COMPLETED WORK FOR ACCEPTANCE TO RECEIVE SUBSEQUENT WORK. d. SUBCONTRACTOR

I. THE PERSON, ENTITY OR AUTHORIZED REPRESENTATIVE, SINGULAR OR PLURAL, HOLDING A DIRECT CONTRACT WITH THE CONTRACTOR TO PERFORM A PORTION OF THE WORK ON THE 2. INCLUDES SUPPLIERS WHO PROVIDE MATERIAL AND EQUIPMENT TO THE CONTRACTOR,

SUBCONTRACTORS AND/OR SUB-SUBCONTRACTORS. THE PERSON, ENTITY OR AUTHORIZED REPRESENTATIVE, SINGULAR OR PLURAL, HOLDING A DIRECT OR INDIRECT CONTRACT WITH A SUBCONTRACTOR TO PERFORM A PORTION OF THE

WORK ON THE PROJECT.

DOCUMENTS.

₹0129. NOT USED. 0130. THE WORDS "PROVIDE", "FURNISH", "INSTALL", "PERFORM", "SUPPLY", OR ANY COMBINATION OR SIMILAR DIRECTIVE OR USAGE IN THE CONTRACT DOCUMENTS IS DEFINED AS FURNISHING ANY AND ALL MATERIAL, COMPETENT AND QUALIFIED LABOR, PERMITS, INSURANCES, HOISTING, FEES, BONDS, EQUIPMENT, TAXES, TOOLS, LICENSES, INSPECTIONS, COMPETENT AND QUALIFIED SUPERINTENDENCE, STORAGE, WARRANTIES AND ALL SERVICES, INCIDENTALS, ASSURANCES AND GUARANTEES, ASSUMPTION OF RISK AND RESPONSIBILITY FOR THE COMPLETE PRODUCT AND PERFORMANCE OF THE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS AND ANY OTHER ENTITIES HAVING JURISDICTION.

THE DRAWINGS AND THESE GENERAL NOTES ARE ESSENTIAL PARTS OF THE CONTRACT DOCUMENTS. A REQUIREMENT INDICATED IN ONE IS BINDING AS THOUGH INDICATED IN ALL . THEY ARE INTENDED TO BE COOPERATIVE AND TO DESCRIBE AND PROVIDE FOR THE COMPLETE WORK. a. SHOULD ANY OF THE DETAILED INSTRUCTION SHOWN ON THE DRAWINGS CONFLICT WITH THE

GENERAL NOTES, REVIEWED SUBMITTALS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL b. ANY ITEM SPECIFIED AND NOT SHOWN ON THE DRAWINGS OR SHOWN ON THE DRAWINGS AND NOT SPECIFIED SHALL BE PROVIDED.

c. COMPLY WITH REFERENCED STANDARD SPECIFICATIONS, ASSOCIATION AND TRADE STANDARDS,

OR OMISSION THAT IS DISCOVERED. THE CONTRACTOR SHALL BE LIABLE TO THE OWNER RESULTING

EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR REQUIRED BY APPLICABLE CODES. , 10132. THE ORGANIZATION OF THE GENERAL NOTES INTO DIVISIONS, SECTIONS, PARTS AND PARAGRAPHS AND THE ARRANGEMENT OF THE DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. DURING THE BIDDING PERIOD, THE CONTRACTOR SHALL STUDY AND COMPARE THE CONTRACT DOCUMENTS AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY ERROR. INCONSISTENCY

FROM ANY SUCH UNREPORTED ERRORS, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT

0133. THE INTENT OF THE DRAWINGS AND GENERAL NOTES IS TO DESCRIBE THE DETAILS FOR THE CONSTRUCTION AND COMPLETION OF THE WORK THAT IS UNDERTAKEN IN ACCORDANCE WITH THE TERMS OF THE CONTRACT DOCUMENTS. WHERE THE DRAWINGS AND GENERAL NOTES DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, BUT NOT COMPLETE IN DETAIL, IT IS UNDERSTOOD THAT ONLY COMMONLY ACCEPTED INDUSTRY PRACTICE IS TO PREVAIL.

0134. REFERENCES TO CODES, STANDARDS, MANUALS, ETC. IN THESE GENERAL NOTES SHALL MEAN THE CURRENT EDITION IN EFFECT.

0135. THOUGH THE COST OF INDEPENDENT AGENCY TESTING IS THE RESPONSIBILITY OF THE OWNER, THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITNESSING AND TESTING WITH THE AGENCY SELECTED BY THE OWNER. { ŠĚĚ ĂŘŤIČLĚ ŎĨOĂ }

0136. INSTALLATION OF ALL MATERIAL IS TO BE IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

OIIT. DO NOT CLOSE, BLOCK, OR OTHERWISE OBSTRUCT ROOMS, BUILDING EXITS, CORRIDORS, WALKWAYS, OI3T. MATERIALS SHALL BE NEW AND SHALL BE ADEQUATE IN CAPACITY FOR THE REQUIRED USE, SHALL NOT CREATE UNSAFE CONDITIONS AND SHALL NOT VIOLATE REQUIREMENTS OF APPLICABLE CODES

> 0138. THE FOLLOWING SHALL BE FURNISHED AND MAINTAINED AT THE PROJECT SITE FOR THE DURATION OF THE WORK AND UNTIL FINAL ACCEPTANCE a. COPY OF THE LATEST EDITIONS OF THE OHIO BUILDING CODE, NATIONAL ELECTRIC CODE AND

b. REFERENCE MANUALS AND MATERIALS INDICATED THROUGHOUT THE DRAWINGS AND TECHNICAL

c. THE CONTRACTOR'S SAFETY MANUAL, HAZARDOUS MATERIALS PLAN, CURRENT MSDS OF ALL MATERIAL BEING INSTALLED

d. THE CONTRACTOR'S DISASTER PREPAREDNESS PLAN.

APPLICABLE MECHANICAL CODES.

e. OSHA STANDARDS APPLICABLE TO THIS PROJECT. F. BUILDING PERMIT PROMINENTLY DISPLAYED AS REQUIRED BY THE LOCAL JURISDICTION. q. THE APPROVED DRAWINGS AND CERTIFICATE OF PLAN APPROVAL ISSUED BY THE AUTHORITY

HAVING JURISDICTION. h. ONE SET OF DRAWINGS MARKED IN LARGE, BOLD LETTERING "PROJECT RECORD". REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS. AS-BUILT INFORMATION IS NOT TO BE MARKED ON THE DOCUMENTS APPROVED BY THE BUILDING DEPARTMENT. STORE APART FROM DOCUMENTS

USED FOR CONSTRUCTION. I. COPY OF ALL REVIEWED SUBMITTALS ORGANIZED BY DIVISION IN A BINDER OR OTHER READILY ACCESSIBLE STORAGE.

INSPECTION CERTIFICATIONS k. COPY OF FIELD AND LABORATORY TEST RESULTS FOR CONCRETE, SOILS, WELDING, INJECTION GROUTING AND STEEL

I. ANY OTHER DOCUMENTS REQUIRED BY FEDERAL, STATE, COUNTY AND LOCAL JURISDICTIONS.

a. COMPLETE THE WORK IN COMPLIANCE WITH THE CONSTRUCTION SCHEDULE INCLUDED IN THE CONTRACT DOCUMENTS;

UNLESS OTHERWISE SPECIFICALLY APPROVED IN WRITING BY THE OWNER; BE RESPONSIBLE FOR COORDINATING AND SCHEDULING EVERY ASPECT OF THE WORK; d. PROVIDE A MINIMUM OF 12 HOURS PRIOR NOTIFICATION OF ANY UTILITY DISRUPTION THAT WILL

b. PROCEED WITH THE WORK EXPEDITIOUSLY AND CONTINUOUSLY WITHOUT CESSATION OR SHUTDOWN

AFFECT THE OWNER'S NORMAL OPERATIONS; e. BE RESPONSIBLE FOR MAINTAINING JOB CLEANLINESS AND MATERIAL ORGANIZATION FOR THE DURATION OF THE PROJECT. PERFORM DAILY, MORE OFTEN IF NECESSARY. PICK UP AND LEGALLY DISPOSE OF ALL SCRAP, DEBRIS AND WASTE MATERIALS. ORGANIZE STORED MATERIAL IN SUCH A MANNER TO PREVENT DAMAGE, SOILING, ROT, AIRBORNE DURING WINDY CONDITIONS, THEFT, VANDALISM, ETC;

PROPERLY FRAMED, CLOSELY FITTED, ACCURATELY SET TO REQUIRED LINES AND LEVELS AND RIGIDLY SECURED IN PLACE; 1. WORKING WITH THE OWNER'S SECURITY REQUIREMENTS, BE RESPONSIBLE FOR SECURING THE WORK AREA AND PROJECT SITE FROM THE PUBLIC AND UNAUTHORIZED PERSONS DURING AND AFTER WORKING HOURS. THIS INCLUDES FURNISHING, ERECTING AND MAINTAINING ALL SECURITY LIGHTING,

F. BE RESPONSIBLE FOR ENSURING THAT ALL WORK IS PROPERLY FABRICATED AND INSTALLED, IS

SIGNAGE, FENCES, BARRICADES OR ANY OTHER SAFETY OR SECURITY DEVICES NECESSARY TO PREVENT UNAUTHORIZED ACCESS TO THE PROJECT SITE; h. BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL FEDERAL, STATE, COUNTY, LOCAL AND THE OWNER'S SAFETY REQUIREMENTS AND STANDARDS. INCLUDES INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY REQUIREMENTS, PRECAUTIONS, RECORDS AND PROGRAMS IN

CONNECTION WITH THE WORK; ENFORCE AND MONITOR UTILITY LOCK-OUT/TAG-OUT PROCEDURES IN COMPLIANCE WITH

APPLICABLE CODES AND STANDARDS. PROVIDE AND PROMINENTLY DISPLAY ALL APPLICABLE LABOR AND SAFETY POSTINGS IN COMPLIANCE WITH FEDERAL, STATE, COUNTY AND LOCAL LAWS AND REGULATIONS.

k. ASSUME FULL RESPONSIBILITY FOR PROTECTION OF MATERIALS AND EQUIPMENT STORED AT THE PROJECT SITE. BE RESPONSIBLE FOR MAINTAINING JOB CLEANLINESS AND MATERIAL ORGANIZATION FOR THE DURATION OF THE PROJECT. PERFORM DAILY, MORE OFTEN IF NECESSARY. PICK UP AND LEGALLY DISPOSE OF ALL SCRAP, DEBRIS AND WASTE MATERIALS. ORGANIZE STORED MATERIAL IN SUCH A MANNER TO PREVENT DAMAGE, SOILING, ROT, AIRBORNE DURING WINDY

CONDITIONS, THEFT, ETC.

0140. TEMPORARY FACILITIES AND CONTROLS a. PROVIDE EACH TEMPORARY FACILITY AND CONTROL AS REQUIRED FOR THE PERFORMANCE OF THE WORK AND FOR THE DURATION OF THE PROJECT. REMOVE WHEN NO LONGER NEEDED. b. ANY SUBCONTRACTOR REQUIRING ANY TEMPORARY ELEMENT(S) BEFORE IT CAN BE PROVIDED, OR WHOSE REQUIREMENTS WITH RESPECT TO A PARTICULAR SERVICE DIFFER FROM THE SERVICE SPECIFIED, SHALL PROVIDE SUCH SERVICE AS IT SUITS THEIR NEEDS, AT THEIR EXPENSE AND IN A

c. Provide and maintain temporary elements in Good Safe Operating Condition. As REQUIRED, PROVIDE TRAINED PERSONNEL TO MONITOR AND PERFORM MAINTENANCE AND REPAIR ON TEMPORARY FACILITIES AND CONTROLS FOR THE DURATION OF THE PROJECT. d. THIS GENERAL NOTES SECTION IS NOT INTENDED TO LIMIT THE TYPES AND AMOUNTS OF

TEMPORARY FACILITIES AND CONTROLS REQUIRED. OMISSIONS FROM THIS SECTION WILL NOT BE

CONSTRUED AS AN INDICATION THAT SUCH TEMPORARY ELEMENT(S) IS/ARE NOT REQUIRED. e. SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL LAWS, REGULATIONS, CODES AND UTILITY PROVIDER REQUIREMENTS. f. OBTAIN AND PAY ALL FEES, PERMITS AND INSPECTIONS REQUIRED

a. PROVIDE IN A MANNER AND AT LOCATIONS WHICH DO NOT INTERFERE WITH PERMANENT

CONSTRUCTION AND OWNER'S OPERATIONS, ARE SAFE, NON-HAZARDOUS, SANITARY AND ADEQUATELY PROTECT THE WORK, WORKERS, OWNER'S EMPLOYEES AND THE PUBLIC. h. PROTECT AGAINST DAMAGE FOR THE DURATION OF THE PROJECT. PROVIDE TEMPORARY TOILET FACILITIES IN THE QUANTITY REQUIRED TO ADEQUATELY SERVICE THE NUMBER OF WORKERS ON THE PROJECT. MAINTAIN IN CLEAN, SANITARY CONDITION. COSTS OF

THESE FACILITIES SHALL BE PAID BY THE CONTRACTOR. SECURE AGAINST TIPPING DURING WINDY CONDITIONS.

MANNER ACCEPTABLE TO THE CONTRACTOR AND THE OWNER.

TEMPORARY DUST CONTROL AT VENTILATION ELEMENTS I. PROVIDE, MAINTAIN AND REMOVE DURABLE, TEMPORARY PROTECTION OF EXISTING AND NEW INAC EQUIPMENT TO PREVENT THE MIGRATION AND COLLECTION OF CONSTRUCTION DUST AND

DEBRIS IN DUCTWORK, COILS, ETC. 2. SECURELY FASTEN FULL-SIZE TEMPORARY FILTER MEDIA OVER ALL RETURN AIR DUCTING LOGATED IN THE WORK AREA. CHANGE OR CLEAN FILTER MEDIA PERIODICALLY AS REQUIRED. 3. SEAL ALL SUPPLY AIR DUCTING LOCATED IN THE WORK AREA AGAINST INTRUSION OF

CONSTRUCTION DEBRIS. k, <del>Provide temporary ventilation as required to maintain adequate tempered and</del> VENTILATED CONDITIONS IN THE WORK AREA FOR THE DURATION OF THE PROJECT OR UNTIL PERMANENT SYSTEMS ARE PUT IN SERVICE OR RESTARTED. REFERENCE DIVISION OF OF THE GENERAL NOTES FOR SPRAY-APPLIED FIREPROOFING VENTILATION REQUIREMENTS PROVIDE TEMPORARY WASTE RECEPTACLES AND REFUSE DUMPSTER'S. ALL COSTS ASSOCIATED

m. PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES AS REQUIRED TO KEEP CONTAMINATED WATER FROM ENTERING STORM CONVEYANCES OR WATERWAYS. n. IN COMPLIANCE WITH APPLICABLE OSHA STANDARDS, PROVIDE, ERECT, USE AND MAINTAIN ADEQUATE COMMERCIAL CONSTRUCTION GRADE LADDERS, LIFTS AND SCAFFOLDS AS REQUIRED

WITH DEBRIS REMOVAL AND DISPOSAL SHALL BE PAID BY THE CONTRACTOR.

REQUIRED FOR WORKER SAFETY AND PROPER EXECUTION OF THE WORK.

REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

FOR THE WORK. o. IN COMPLIANCE WITH APPLICABLE OSHA STANDARDS, PROVIDE, USE AND MAINTAIN ADEQUATE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED FOR THE WORK. o. PROVIDE, ERECT, MAINTAIN AND REMOVE ADEQUATE TEMPORARY SHORING AND BRACING AS

q. COORDINATE THE LOCATION(S) OF MATERIAL AND EQUIPMENT STAGING WITH THE OWNER. ON THE EXTERIOR, MAINTAIN AREA(S) FREE OF TRASH, WEEDS AND OTHER UNSIGHTLY CONDITIONS. RETURN STAGING AREA TO ITS ORIGINAL CONDITION, OR BETTER, AT THE COMPLETION OF THE

r. FOR THE PROTECTION OF THE PUBLIC AND WORKERS, PROVIDE AND MAINTAIN WARNING LIGHTS,

BARRICADES, SIGNAGE, CAUTION TAPE AND OTHER SIMILAR ELEMENTS IN, AROUND AND ADJACENT TO WORK AREAS, STAGING AREAS AND EQUIPMENT. 5. TO PREVENT THE UNSAFE ACCUMULATION OF EXHAUST IN THE BUILDING, ALL POWERED EQUIPMENT, (SAW-CUTTING MACHINERY, WELDERS, LIFTS, ETC.), SHALL BE ELECTRICAL OR PROPANE POWERED OR BE OUTFITTED WITH AN APPROVED EXHAUST SCRUBBER. COORDINATE SPECIAL ELECTRICAL

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Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2021

**GENERAL NOTES** 

**DIVISION Ø** 

DRAWING NUMBER

THROUGH

b. PROVIDE ADEQUATE TEMPORARY EXTERIOR LIGHTING AS REQUIRED TO MAINTAIN SECURITY OF THE PROJECT SITE.

c. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA 70 THE NATIONAL ELECTRIC CODE, OSHA AND UTILITY PROVIDER'S REQUIREMENTS. d. AS REQUIRED, PROVIDE PORTABLE ELECTRICAL POWER PLANTS OF ADEQUATE CAPACITY TO

MEET THE NEEDS OF THE WORK. INCLUDES SPECIALIZED EQUIPMENT SUCH AS CONCRETE CUTTERS,

e. REMOVE WHEN PERMANENT SYSTEMS ARE AVAILABLE FOR USE. NO TEMPORARY SYSTEM SHALL FORM A PART OF THE PERMANENT SYSTEM. F. IN AREAS WHERE NATURAL LIGHTING IS NOT ADEQUATE, PROVIDE MINIMUM FOOT-CANDLES

REQUIRED PER OSHA STANDARDS. q. LOCATE CIRCUITS ALONG SAFE AND PROTECTED-AGAINST-DAMAGE ROUTES AND LEAST

OBJECTIONABLE TO THE WORK. h. PROVIDE LAMP REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER. . CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE AND PROPER USE OF ALL

TEMPORARY LIGHT AND POWER SYSTEMS UNTIL REMOVED. . THE COST OF INSTALLING, MAINTAINING, SUPERVISING, OPERATING AND REMOVAL SHALL BE PAID BY THE CONTRACTOR. I. THE COST OF CURRENT CONSUMED WILL BE PAID BY THE OWNER.

k. UNLESS OTHERWISE SPECIFIED, LOCATE ELECTRICAL RECEPTACLES A MAXIMUM 25 FEET APART AND EQUALLY DISTRIBUTED THROUGHOUT THE WORK AREA. I. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND COMPLIANCE

OF ALL TEMPORARY LIGHTING AND POWER UNTIL REMOVED. 0142. PROVIDE AND MAINTAIN FIRE PROTECTION SERVICES AND EQUIPMENT AS APPROVED BY THE LOCAL

FIRE PREVENTION AUTHORITY. KEEP COMBUSTIBLES AWAY FROM THE BUILDING AS FAR AS PRACTICAL AND DESIGNATE ONE RESPONSIBLE INDIVIDUAL WHOSE DUTY SHALL BE TO PATROL AND 0153. TEMPORARY FENCING SUPERVISE FIRE PREVENTION REQUIREMENTS FOR THE DURATION OF THE PROJECT. SHALL BE DONE WITH TOOLS AND METHODS TO PREVENT DAMAGE TO ADJACENT FINISHES, STRUCTURAL MEMBERS,

a. PROVIDE AND MAINTAIN PROPERLY TAGGED FIRE EXTINGUISHERS (U.L. 4A-80BC) IN THE QUANTITY AND LOCATIONS REQUIRED TO PROVIDE ADEQUATE COVERAGE FOR USE IN THE EVENT OF FIRE.

0143. PROVIDE TEMPORARY HEAT AND VENTILATION AS REQUIRED TO MAINTAIN ADEQUATE ENVIRONMENTAL CONDITIONS TO MEET SPECIFIED MINIMUM CONDITIONS FOR INSTALLATION OF MATERIALS; AND TO PROTECT EQUIPMENT, MATERIALS, AND FINISHES FROM DAMAGE DUE TO TEMPERATURE OR HUMIDITY

a. PROVIDE ADEQUATE FORCED VENTILATION OF ENCLOSED AREAS TO CURE INSTALLED MATERIALS, TO PREVENT EXCESSIVE HUMIDITY, AND TO PREVENT HAZARDOUS ACCUMULATIONS OF DUST, FUMES,

I. THE COST OF FUEL CONSUMED TO PAID BY THE CONTRACTOR. b. PERMANENT HVAC SYSTEM: IF THE OWNER AUTHORIZES USE OF PERMANENT HVAC SYSTEM FOR TEMPORARY USE DURING CONSTRUCTION, PROVIDE FILTER WITH MINIMUM EFFICIENCY RATING VALUE (MERV) 13 AT EACH EXHAUST OR RETURN AIR GRILLE IN SYSTEM AND REMOVE AT END OF

I. THE COST OF FUEL CONSUMED TO BE PAID BY OWNER.

0144. CONTRACTOR SHALL HAVE TELEPHONE FACILITIES AVAILABLE AT CONTRACTOR'S BUSINESS OFFICE FOR THE DURATION OF THE CONTRACT WHERE CONTRACTOR AND CONTRACTOR'S SUPERINTENDENT

a. CONTRACTOR SHALL PROVIDE A CELLULAR TELEPHONE AT ALL TIMES FOR EFFECTIVE OWNER OR OWNER'S REPRESENTATIVE'S COMMUNICATION WITH THE CONTRACTOR. b. DATA SERVICE WILL BE AT THE CONTRACTORS OPTION UNLESS SPECIFICALLY REQUESTED BY THE

0145. TEMPORARY POTABLE WATER

a. PROVIDE DURABLE TEMPORARY PIPING AND HOSES AS REQUIRED TO CONVEY WATER FROM WATER SOURCE. COORDINATE LOCATION WITH THE SUBCONTRACTOR(S) REQUIRING THE WATER. b. PROVIDE ADEQUATE DRAINAGE AND OTHER PROVISIONS NECESSARY TO PREVENT THE COLLECTION OF STANDING WATER AND MUD AT THE SITE OF THE TEMPORARY WATER AND THE SEEPAGE OF CONTAMINATED WATER FROM ENTERING STORM CONVEYANCES AND WATERWAYS. c. PROTECT FROM FREEZING:

d. <del>SECURE CONTROLS AGAINST UNAUTHORIZED USE AND VANDALISM DURING NONWORKING HOURS:</del> e. THE COST OF INSTALLING, MAINTAINING, SUPERVISING, OPERATING AND REMOVAL SHALL BE PAID BY THE CONTRACTOR: THE COST OF WATER CONSUMED WILL BE PAID BY THE OWNER. f. RETURN THE AREA TO ITS ORIGINAL CONDITION, OR BETTER, AT THE COMPLETION OF THE

q. CONTRACTOR MAY USE POTABLE WATER OBTAINED AT EXISTING HOSE BIBB AT FOREST ROSE

0146. FIELD OFFICE, PORTABLE. CONTRACTOR TO PROVIDE. a. ADEQUATELY SIZED TO PROVIDE A WORK AREA FOR THE PROJECT SUPERINTENDENT, A PLAN TABLE, ADEQUATE STORAGE FOR CONSTRUCTION DOCUMENTS, A SEPARATED CONFERENCE AREA WITH TABLE AND CHAIRS TO ACCOMMODATE TEN PEOPLE AND, AT CONTRACTOR'S OPTION, STORAGE FOR SMALL TOOLS, HARDWARE, ETC.

c. COORDINATE LOCATION, UTILITY NEEDS AND OTHER SPECIFIC REQUIREMENTS WITH THE OWNER AND THE LOCAL JURISDICTION HAVING AUTHORITY.

d. PROVIDE STEPS WITH RAILING AND LANDING OR ACCESSIBLE RAMP CONSTRUCTED IN ACCORDANCE WITH ICC/ANSI AII7.I.

e. MAINTAIN AREA FREE OF TRASH, WEEDS, AND OTHER UNSIGHTLY CONDITIONS. F. PROVIDE SIGNAGE IDENTIFYING THE STRUCTURE.

0147. FIELD OFFICE, BUILDING INTERIOR

b. WITH HEATING AND COOLING SYSTEMS.

a. <del>Utilizing existing space in the building that will not disrupt construction operations</del> PROVIDE AN ADEQUATELY SIZED WORK AREA FOR THE PROJECT SUPERINTENDENT. A PLAN TABLE. ADEQUATE STORAGE FOR CONSTRUCTION DOCUMENTS AND A SEPARATED CONFERENCE AREA WITH TABLE AND CHAIRS TO ACCOMMODATE (SIX) 6 PEOPLE.

b. UTILIZE EXISTING OR PROVIDE HEATING AND COOLING SYSTEMS FOR TEMPORARY SERVICES. C. COORDINATE LOCATION AND OTHER SPECIFIC REQUIREMENTS WITH THE OWNER. d. PROVIDE SIGNAGE

e. RETURN THE SPACE TO ITS ORIGINAL CONDITION OR BETTER UPON COMPLETION OF THE PROJECT. 0148. TEMPORARY STORAGE FACILITIES. PROVIDED AT THE DISCRETION OF THE OWNER AND

CONTRACTOR. a. PROVIDE ADEQUATELY SIZED, WEATHERTIGHT, LOCKABLE STORAGE CONTAINER IN THE QUANTITY REQUIRED FOR MATERIAL STORAGE.

b. COORDINATE STAGING LOCATION(S) WITH THE OWNER. c. IN ORDER TO MINIMIZE STORAGE AREAS AND PERIOD OF STORAGE AT PROJECT SITE, SCHEDULE AND COORDINATE ALL MATERIAL DELIVERIES WITH THE CONTRACTOR.

 d. MAINTAIN AREAS FREE OF TRASH, WEEDS, AND OTHER UNSIGHTLY CONDITIONS e. RETURN THE STAGING AREA TO ITS ORIGINAL CONDITION OR BETTER UPON COMPLETION OF THE

0149. TEMPORARY SANITARY FACILITIES

a. CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE, PORTABLE CHEMICAL TOILETS. TYPE LOCATION AND MAINTENANCE OF TEMPORARY TOILETS ARE THE RESPONSIBILITY OF THE CONTRACTOR, LOCATION OF TEMPORARY TOILETS WILL BE DETERMINED BY THE OWNER.

b. PERMANENT TOILET FACILITIES WITHIN AN EXISTING BUILDING SHALL NOT BE USED WITHOUT WRITTEN AUTHORIZATION OF THE OWNER. c. E<del>xisting Sanitary Facilities may be used during construction, maintain daily in clean</del> - AND SANITARY CONDITION.

CONSTRUCTION PROGRESS MEETINGS

I. THE CONTRACTOR SHALL ADMINISTER REGULARLY SCHEDULED PROGRESS MEETINGS THROUGHOUT THE PROJECT AT MAX TWO WEEK INTERVALS. REQUIRED ATTENDANCE AT THESE MEETINGS INCLUDE THE CONTRACTOR'S PROJECT MANAGER AND PROJECT SUPERINTENDENT. SUPERINTENDENTS OF ALL SUBCONTRACTORS WHOSE FORCES ARE CURRENTLY ON SITE OR ARE SCHEDULED TO BE ON SITE BEFORE THE NEXT PROGRESS MEETING, THE OWNER'S REP AND THE ARCHITECT.

THE CONTRACTOR SHALL CHAIR THE MEETINGS, SHALL KEEP MEETING MINUTES AND SHALL EMAIL MINUTES TO ALL ATTENDEES WITHIN 48 HOURS OF THE MEETING.

AT LEAST 48 HOURS PRIOR TO ALL PROGRESS MEETINGS, THE CONTRACTOR SHALL EMAIL A LISTING OF ALL PROGRESS ON THE PROJECT SINCE THE PREVIOUS MEETING, ALONG WITH THE PROPOSED MEETING AGENDA TO ALL MEETING ATTENDEES FOR REVIEW.

TYPICAL MEETING AGENDAS SHALL INCLUDE, BUT NOT BE LIMITED TO, REVIEW OF:

NEW WORK ACCOMPLISHED SINCE THE PREVIOUS MEETING, 2. NEW CONCERNS SINCE THE PREVIOUS MEETING,

3. ISSUES PREVIOUSLY DISCUSSED BUT NOT YET RESOLVED, 4. PROPOSED WORK FOR THE NEXT TWO WEEKS,

5. THE UPDATED PROJECT SCHEDULE, 6. PENDING CHANGE ORDERS AND/OR BULLETINS,

7. SUBMITTAL ISSUES AND STATUS,

9. ALL OTHER BUSINESS RELATING TO THE WORK. THE ARCHITECT AND OWNER WILL REVIEW CONSTRUCTION WORK BEING DONE ON THE PROJECT FOLLOWING THE MEETING.

0151. SITE ACCESS AND PARKING a. COORDINATE CONSTRUCTION ENTRANCE REQUIREMENTS WITH THE OWNER AND THE LOCAL AUTHORITIES HAVING JURISDICTION.

b. WORKERS, CONSTRUCTION TRAFFIC, EQUIPMENT, MATERIAL DELIVERIES AND REMOVAL OF MATERIALS AND DEBRIS SHALL UTILIZE THE PROJECT SITE ENTRANCE AND EXISTING PARKING LOT AND DRIVE AS SHOWN ON THE SITE UTILIZATION PLAN.

c. At the completion of the project, restore, to original or better condition, all paved AND LAWN AREAS USED FOR TEMPORARY ACCESS, WORKER PARKING, STAGING, STORAGE, JOBSITE TRAILER, TEMPORARY WATER AND TEMPORARY ELECTRICAL ELEMENTS. d. MAINTAIN PRIVATE AND PUBLIC ROADWAYS, PRIVATE AND PUBLIC ALLEYS AND PARKING AREAS

UTILIZED FOR CONSTRUCTION TRAFFIC CLEAR, CLEAN AND FREE OF MUD AND DEBRIS. AT THE COMPLETION OF THE PROJECT, REPAIR DAMAGED AREAS AND RESTORE TO ORIGINAL OR BETTER

0165. PROVIDE COMPLETE AND THOROUGH FINAL CLEANING OF THE BUILDING INTERIOR AT THE COMPLETION e. ON-SITE CONSTRUCTION-RELATED PARKING SHALL BE RESTRICTED TO THE AREA SHOWN ON THE SITE UTILIZATION PLAN.

F. ERECT AND MAINTAIN TEMPORARY SIGNAGE AS NECESSARY TO CONTROL ROUTES OF CONSTRUCTION TRAFFIC AND DELIVERY OF MATERIALS AND EQUIPMENT TO THE PROJECT SITE. q. ON STATE ROUTE 37, PROVIDE AND MAINTAIN FROM EACH DIRECTION, ODOT SPECIFICATION SIGNAGE "CONSTRUCTION ENTRANCE AHEAD" AND IF APPLICABLE "TRUCKS ENTERING AND LEAVING WORK AREA".

0152. TEMPORARY STAGING AREAS

a. STAGING AREAS LOCATIONS WILL BE SELECTED BY THE OWNER. THE CONTRACTOR SHALL SUBMIT A SITE LOGISTICS PLAN AT THE PRE-CONSTRUCTION MEETING. STORAGE / STAGING AREAS MUST BE MAINTAINED AND RETURNED TO THE CONDITION THEY WERE IN PRIOR TO OCCUPATION BY THE CONTRACTOR. PATCH, REPAIR OR REPLACE ANY AND ALL DAMAGED AREAS TO RESTORE TO ORIGINAL PRE-PROJECT CONDITION UPON COMPLETION OF THE WORK.

b. THE TEMPORARY STAGING AREAS MUST RECEIVE FINAL INSPECTION AND APPROVAL BY THE OWNER PRIOR TO FINAL PAYMENT.

a. PROJECT SITE FENCING I. CONTRACTOR SHALL ERECT AND MAINTAIN IN GOOD CONDITION A SIX-FOOT HIGH CHAIN LINK FENCE OF STANDARD CONSTRUCTION SURROUNDING THE PROJECT SITE AND ENCLOSING THE AREA OF WORK AND MATERIALS STAGING.

2. LOCATION OF THE FENCE SHALL BE APPROVED BY THE OWNER PRIOR TO ERECTION. FENCE GATES SHALL REMAIN LOCKED WHEN UNATTENDED TO DISCOURAGE ACCESS BY UNAUTHORIZED

3. THIS APPLIES TO LARGE CONSTRUCTION PROJECTS AND SMALL PROJECTS WITH MULTIPLE LOCATIONS. b. STAGING AREA FENCING

I. A COMMERCIAL GRADE CHAIN-LINK FENCE AROUND THE ENTIRE PERIMETER OF THE STAGING 2. THE FENCE MAY BE GROUND-SET OR TEE SUPPORTED, BUT MUST REMAIN STABLE IN HIGH OR GUST WIND CONDITIONS AND SCALING BY PEDESTRIANS. THE CONTRACTOR SHALL COORDINATE ALL FENCE POLE LOCATIONS THAT ARE TO BE POUNDED INTO THE GROUND WITH

OWNER'S LANDSCAPE AND OUTDOOR SERVICES AND BLUESTAKE TO AVOID SHALLOW UTILITIES AND IRRIGATION. 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS REQUIRED TO RETURN TO AREA TO ORIGINAL CONDITION AFTER FENCING IS REMOVED, INCLUDING, BUT NOT LIMITED TO, SOD, ASPHALT AND CONCRETE REPAIR, POST HOLES IN ASPHALT WILL BE REPAIRED USING FAST-PATCH DPR POURABLE ASPHALT REPAIR. USING A HOT OR COLD PATCH FOR THE POST

HOLES IS NOT ALLOWED. c. AN 8 WIDE, TWO SECTION CHAIN-LINK ACCESS GATE SHALL BE REQUIRED IN THE FENCE AND THE OWNER SHALL BE GIVEN A KEY(S) TO THE GATE LOCK BY THE CONTRACTOR FOR EMERGENCY

d. FENCING SHALL BE PLACED IMMEDIATELY AFTER OR DURING SITE PREPARATION, AND REMAIN IN PLACE FOR THE ENTIRE DURATION OF CONSTRUCTION.

e. THE STAGING PLAN SHALL NOTE THAT THE CONTRACTOR IS TO MAINTAIN THE FENCE IN A NEAT AND ORDERLY APPEARANCE.

a. PROVIDE AND MAINTAIN ALL SAFETY SIGNAGE, IN ACCORDANCE WITH APPLICABLE OSHA STANDARDS, REQUIRED FOR THE PROTECTION OF THE PUBLIC, OWNER'S EMPLOYEES AND

b. PROVIDE AND MAINTAIN TEMPORARY DIRECTIONAL SIGNAGE CLEARLY IDENTIFYING THE PATH FOR ALL CONSTRUCTION RELATED TRAFFIC AS SHOWN ON THE SITE UTILIZATION PLAN, AND IDENTIFYING PARKING LOTS THAT CONSTRUCTION TRAFFIC SHOULD NOT ENTER.

c. PROVIDE AND MAINTAIN A PROJECT IDENTIFICATION SIGN. COORDINATE SPECIFIC REQUIREMENTS WITH THE OWNER AND, IF APPLICABLE, APPROVAL FROM LOCAL AUTHORITY HAVING JURISDICTION. I. AT A MINIMUM, THE SIGN SHALL INCLUDE THE NAME OF THE PROJECT, THE NAME OF THE CONTRACTOR, THE NAME OF THE OWNER, THE NAME OF THE ARCHITECTURAL FIRM, THE NAME OF ENGINEERING FIRMS, THE NAME OF THE FINANCIAL INSTITUTION PROVIDING FINANCING AND GRAPHIC COMPANY LOGOS, IF APPLICABLE, OF EACH.

2. THE SIGN SHALL BE DESIGNED AND FABRICATED BY A GRAPHIC DESIGN FIRM EXPERIENCED WITH THE TYPE AND SIZE REQUIRED. 3. SIZE: MINIMUM 4 FEET BY 8 FEET

4. SIGN BACKING SHALL BE OF A THICKNESS AND TYPE OF MATERIAL TO WITHSTAND NORMAL CONDITIONS ON A CONSTRUCTION SITE, INCLUDING BUT NOT NECESSARILY LIMITED TO, WIND, DUST, ULTRAVIOLET EXPOSURE, ETC. 5. ERECTED BY THE CONTRACTOR. REMOVE AT PROJECT COMPLETION.

c. SIGNAGE ADVERTISING SUBCONTRACTORS, MATERIAL SUPPLIERS, EQUIPMENT SUPPLIERS, ETC. WILL NOT BE PERMITTED AT OR ADJACENT TO THE PROJECT SITE.

0155. BECAUSE THE OWNER WILL BE OCCUPYING THE BUILDING OR A PORTION OF THE BUILDING DURING THE CONSTRUCTION PERIOD, THE OWNER MAY OR WILL NOT REQUIRE ACCESS TO THE WORK AREA. CONDUCT ALL WORK IN A MANNER THAT WILL MINIMIZE THE NEED FOR DISRUPTION OF OWNER'S NORMAL OPERATIONS.

0156. NEW CONSTRUCTION: THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT BUILDING IS FULLY ERECTED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEATHING, TEMPORARY BRACING, GUYS, TIE-DOWNS, ETC. REQUIRED TO COMPLETE THE WORK. SUCH MATERIALS SHALL REMAIN THE CONTRACTOR'S PROPERTY AT THE COMPLETION OF THE PROJECT.

0157. RENOVATION: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ALL PHASES OF CONSTRUCTION, THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEATHING, TEMPORARY BRACING, GUYS, TIE-DOWNG, ETG. AS REQUIRED TO COMPLETE THE WORK, SUCH MATERIALS SHALL REMAIN THE CONTRACTOR'S PROPERTY AT THE COMPLETION OF THE PROJECT.

0158. EQUIPMENT FRAMING, LOADS, OPENINGS AND STRUCTURES IN ANY WAY RELATED TO HVAC, PLUMBING OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADE(S) BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK, ANY EXCESS COSTS RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR AND/OR APPROPRIATE SUBCONTRACTOR.

0159. EACH TRADE SHALL FURNISH THE CONTRACTOR WITH, AND BE RESPONSIBLE FOR, EXACT LOCATION AND SIZE OF ALL PENETRATIONS, HOLES AND OPENINGS REQUIRED FOR THEIR WORK. UNLESS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS, THE COST OF FORMING HOLES AND OPENINGS SHALL BE BORNE BY THE SUBCONTRACTOR REQUIRING THE HOLE(S) AND/OR OPENING(S).

0160. ALL WORK IS TO BE INSTALLED STRAIGHT, PLUMB, LEVEL AND IN TRUE ALIGNMENT, SHIMMING AS REQUIRED. ALL SHIMS ARE TO BE CONCEALED. ALL WORK SHALL BE NEATLY AND ACCURATELY FITTED, SCRIBED AND THOROUGHLY SECURED. MITERS AND OTHER JOINTS SHALL BE PLANED AND SANDED. ALL WORK SHALL BE LEFT CLEAN AND FREE FROM WARP, TWIST, OPEN JOINTS AND OTHER

PROVIDE EXPANSION CONTROL SYSTEMS AS REQUIRED BY THE MANUFACTURER OF THE PRODUCT BEING INSTALLED WHETHER OR NOT INDICATED ON THE DRAWINGS. COORDINATE ALL LOCATIONS WITH THE ARCHITECT.

a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THESE GENERAL NOTES. 0162. PROVIDE AND MAINTAIN <u>DURABLE</u> PROTECTION OF <u>ALL</u> FINISH WORK FOR THE DURATION OF THE

PROJECT AND UNTIL FINAL ACCEPTANCE BY THE OWNER, REMOVE WHEN NO LONGER REQUIRED. 0163. PROVIDE COMPLETE AND THOROUGH FINAL CLEANING OF THE SITE AT THE COMPLETION OF ALL

a. BROOM CLEAN AND MEDIUM PRESSURE WASH ALL CONCRETE AND ASPHALT PAVED AREAS AND

ALL PUBLIC PAVED AREAS DIRECTLY ADJACENT TO THE SITE. b. REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS. c. CLEAN EXPOSED MASONRY WORK.

d. CLEAN PERMANENT SITE SIGNAGE. e. CLEAN LIGHTING POSTS, FIXTURES AND LENSES.

JOBSITE TRAILER STAGING AREA.

f. BROOM CLEAN AND MEDIUM PRESSURE WASH DUMPSTER ENCLOSURE. a. MATERIAL AND EQUIPMENT STAGING AREAS. ). CONSTRUCTION PARKING AREA(S).

a. COMPLY WITH PROCEDURES INDICATED IN THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION FOR THE ISSUANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION AND CONTRACT b. WHEN SUBMITTING THE FINAL REQUEST FOR PAYMENT, FURNISH TO THE ARCHITECT OR OWNER: ONE

i. WAX AND BUFF POLISH VINYL COMPOSITION TILE SURFACES.

. SANITIZE PLUMBING FIXTURES AND WATER FOUNTAINS.

0164. PROVIDE COMPLETE AND THOROUGH FINAL CLEANING OF THE BUILDING EXTERIOR AT THE

PROTECTIVE COVERINGS AND OTHER FOREIGN MATTER FROM ALL SURFACES.

OF ALL WORK. INCLUDES ALL ACCESSORY STRUCTURES. ALL CLEANING PRODUCTS AND

b. POLISH ALL GLAZING, STAINLESS, BRASS, MILL AND CHROME SURFACES.

e. CLEAN BUILDING COLUMNS, RAILINGS AND OTHER DECORATIVE ITEMS.

STAIRS, ETC. ATTACHED TO AND/OR ADJACENT TO THE BUILDING.

REFLECTIVE SURFACES AND OTHER EXPOSED METAL SURFACES.

OF CABINETS, DRAWERS, LOCKERS, FIRE EXTINGUISHER CABINETS, ETC

c. CLEAN EXPOSED MASONRY WORK.

d. CLEAN PERMANENT BUILDING SIGNAGE

a. REMOVE ALL DEBRIS FROM GUTTERS.

EXPOSED CONCRETE, ETC.

h. VACUUM CARPETS.

b. REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS.

c. CLEAN EXPOSED, VISUAL, ETC. MASONRY WORK.

CLEAN THE INTERIOR OF LIGHTING COVES.

m. REPLACE OR CLEAN ALL HVAC FILTERS.

COMPLETION OF ALL WORK. INCLUDES ACCESSORY STRUCTURES. ALL CLEANING PRODUCTS AND

PROCEDURES ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER OF THE ITEM BEING CLEANED.

F. BROOM CLEAN AND MEDIUM PRESSURE WASH AREAS SUCH AS STOOPS, PATIOS, PORCHES DECKS,

PROCEDURES ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER FOR THE ITEM BEING CLEANED.

SMUDGES, PAINT DROPPINGS, WALLBOARD JOINT COMPOUND, STAINS AND OTHER FOREIGN MATTER.

a. VISUALLY INSPECT ALL SURFACES. REMOVE ALL TRACES OF SOIL, WASTE MATERIAL, SPOTTING,

d. POLISH ALL GLAZING, MIRROR GLASS, STAINLESS, CHROME, MILL, BRASS, RECESSED LIGHTING

e. BROOM CLEAN AND DAMP MOP HARD FLOORING SURFACES SUCH AS VINYL COMPOSITION TILE,

F. DAMP CLOTH WIPE DOWN/DUST ALL HORIZONTAL AND VERTICAL SURFACES. INCLUDES INTERIORS

REMOVE LABELS, TAGS, TAPE, ETC. FROM ALL HORIZONTAL AND VERTICAL SURFACES.

. UTILIZING MATERIAL PROVIDED BY THE OWNER, STOCK PAPER AND SOAP DISPENSERS

a. REMOVE ALL TRACES OF SPLASHED MATERIAL, SPOTTING, SMUDGES, STAINING, LABELS, TAPE,

BOUND COPY, SORTED AND DIVIDED BY DIVISION, OF ALL PRODUCT DATA; COLORS; FINISHES; MAINTENANCE INSTRUCTIONS; CLEANING INSTRUCTIONS; MANUFACTURER, SUBCONTRACTOR AND CONTRACTOR WARRANTIES: SCHEMATICS: OPERATIONS MANUALS: ETC. OF ALL INSTALLED PRODUCTS. DOCUMENTS ARE TO BE CLEARLY MARKED INDICATING SIZE, TYPE, MODEL, ITEM AND SERIAL NUMBERS. AN ORGANIZED, WRITTEN LISTING OF CONTRACTOR AND SUBCONTRACTOR NAME, ADDRESS, TELEPHONE NUMBER(S) AND POINT OF CONTACT ARE TO BE INSERTED AT THE FRONT OF THE MANUAL.

c. FURNISH TO THE OWNER WHEN SUBMITTING FINAL REQUEST FOR PAYMENT: I. SPARE PARTS AND MAINTENANCE MATERIALS;

2. ATTIC STOCK;

3. KEYS, SPECIALTY TOOLS, ETC;

5. PERMIT DRAWINGS AND INSPECTION CARD(S);

6. "PROJECT RECORD" DRAWINGS; 7. PHOTOGRAPHIC DOCUMENTATION OF THE PROJECT (ORGANIZED BY DATE); 8. WRITTEN EVIDENCE OF INSPECTIONS AND TESTING FOR HVAC AIR BALANCING, FIRE SUPPRESSION SYSTEM, LIMITED AREA FIRE SPRINKLER SYSTEM, BACK-FLOW PREVENTER, SOILS,

CONCRETE, STRUCTURAL STEEL AND SPRAY APPLIED FIREPROOFING; AND 9. WRITTEN EVIDENCE OF MANUFACTURER'S FINAL INSPECTION OF ROOFING SYSTEM, EXTERIOR INSULATION AND FINISH SYSTEM.

a. WITHIN FIVE (5) BUSINESS DAYS OF RECEIPT OF WRITTEN NOTIFICATION OF SUBSTANTIAL COMPLETION FROM THE CONTRACTOR AND RECEIPT OF THE CONTRACTOR'S PUNCH LIST, THE OWNER, OR OWNER'S REPRESENTATIVE, OR THE ARCHITECT OR HIS REPRESENTATIVE SHALL CONDUCT AN INSPECTION OF THE PROJECT TO DETERMINE IF THERE ARE ANY AREAS OF WORK BEYOND THE CONTRACTOR'S PUNCH LIST THAT ARE DEFICIENT OR IN UNACCEPTABLE CONDITION. A PUNCH LIST WILL BE PRODUCED OF SAID ITEMS WITHIN SEVEN (7) BUSINESS DAYS OF THE INSPECTION. THE CONTRACTOR SHALL COMPLETE AND CORRECT ALL ITEMS ON BOTH PUNCH LISTS WITHIN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS OF RECEIPT OF THE OWNER'S PUNCH LIST. IF THE CONTRACTOR FAILS TO PROPERLY COMPLETE THE ITEMS WITHIN THE DEADLINE, THE OWNER RESERVES THE RIGHT TO HIRE SEPARATE CONTRACTOR(S) TO COMPLETE THE WORK AND BACK CHARGE THE ORIGINAL CONTRACTOR FOR ALL ASSOCIATED CONTRACTOR AND ARCHITECTURAL

0168. UTILIZING THE "PROJECT RECORD" SET OF DOCUMENTS, RECORD, IN LEGIBLE RED INK, AS-BUILT INFORMATION CONCURRENTLY WITH CONSTRUCTION PROGRESS. INCLUDE INFORMATION SUCH AS: a. MEASURED DEPTHS OF VARIOUS ELEMENTS OF FOUNDATIONS IN RELATION TO FINISH FLOOR

b. REFERENCED FROM PERMANENT SURFACE IMPROVEMENTS, MEASURED HORIZONTAL AND VERTICAL LOCATIONS OF UNDERGROUND UTILITIES AND APPURTENANCES; c. REFERENCED FROM VISIBLE AND ACCESSIBLE FEATURES OF THE STRUCTURE, MEASURED

LOCATIONS OF INTERIOR UTILITIES AND APPURTENANCES CONCEALED IN THE CONSTRUCTION; d. FIELD CHANGES OF DIMENSIONS, DETAILS, ELEVATIONS, GRADES, ETC; e. CHANGES MADE BY CHANGE DIRECTIVE AND CHANGE ORDER;

F. DETAILS NOT ON ORIGINAL DRAWINGS q. REFERENCES TO SHOP DRAWINGS; AND OF THE EXISTING CONDITIONS AND NEW WORK.

MATERIAL IS TO MATCH IN COLOR, LOT NUMBER, BATCH, TEXTURE, TEMPERATURE (KELVIN), ETC. OF THAT WHICH WAS INSTALLED (EACH TYPE) AND SHALL BE IN FULL, UNOPENED CARTONS, BUCKETS, CANS, BOXES, ETC.

a. PAINT: ONE GALLON OF EACH COLOR. b. FLOOR COVERING: I. VINYL COMPOSITION TILE: 10 PERCENT.

2. <del>SHEET VINYL: 10 PERCENT.</del> 3. BROADLOOM CARPET: 10 PERCENT OF STYLE, PATTERN AND COLOR. 4. MODULAR CARPET: I CARTON OF EACH STYLE, PATTERN AND COLOR.

5. GERAMIC TILE: I CARTON. 6. WALK-OFF MAT: I CARTON.

7. VINYL PLANK: I CARTON OF EACH STYLE, PATTERN AND COLOR. c. LAMPS:

. ONE BOX INSTALLED IN LAY-IN AND COVE LIGHT FIXTURES. 2. TWO EACH INSTALLED IN RECESSED DOWNLIGHTS. 3. THREE EACH INSTALLED IN UNDER CABINET LIGHT FIXTURES.

4. FOUR EACH INSTALLED IN EXTERIOR LIGHT FIXTURES. d. <del>Wallcovering: To percent or quantity based on amount required to install in room</del>

e. SPRINKLER HEADS PER NEPA. f. ACOUSTICAL CEILING SYSTEM - CEILING TILE: I CARTON.

a. THE CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY TO THE OWNER THAT ALL WORK IS IN CONFORMITY WITH THE CONTRACT DOCUMENTS AND FREE FROM DEFECTS IN WORKMANSHIP, MATERIALS AND EQUIPMENT FOR A PERIOD OF ONE YEAR COMMENCING WITH FINAL ACCEPTANCE BY THE ARCHITECT AND OWNER.

b. THE CONTRACTOR, THROUGH THE MANUFACTURER, SHALL PROVIDE A WRITTEN WARRANTY TO THE OWNER FOR THOSE INSTALLED ITEMS THAT CARRY A MANUFACTURER'S WARRANTY BEYOND THE ONE (I) YEAR PERIOD.

c. IF DEFECTIVE WORK BECOMES APPARENT WITHIN THE WARRANTY PERIOD, THE OWNER SHALL PROMPTLY NOTIFY THE CONTRACTOR IN WRITING. WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF SAID NOTICE, THE CONTRACTOR SHALL, IN THE COMPANY OF ONE OR MORE REPRESENTATIVES OF THE OWNER, VISIT THE PROJECT TO DETERMINE THE EXTENT OF THE DEFECTIVE WORK. THE CONTRACTOR SHALL PROMPTLY REPAIR OR REPLACE THE DEFECTIVE WORK, INCLUDING ALL ADJACENT WORK DAMAGED AS A RESULT OF SUCH DEFECTIVE WORK OR AS A RESULT OF REMEDYING THE DEFECTIVE WORK, WHETHER OR NOT SUCH ADJACENT WORK WAS ORIGINALLY

PROVIDED BY THE CONTRACTOR. d. IF THE DEFECTIVE WORK IS CONSIDERED, BY THE OWNER, TO BE AN EMERGENCY, THE OWNER RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR BY TELEPHONE OR OTHER EXPEDITIOUS MEANS. THE CONTRACTOR SHALL VISIT THE PROJECT NO LATER THAN ONE (I) CALENDAR DAY OF RECEIPT OF SAID NOTICE.

e. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE COST OF TEMPORARY MATERIALS. FACILITIES, UTILITIES AND/OR EQUIPMENT REQUIRED BY EITHER THEM OR THE OWNER IN ORDER FOR THE OWNER TO CONTINUE DOING UNINTERRUPTED BUSINESS DURING THE REPAIR OR REPLACEMENT OF THE DEFECTIVE WORK.

**DIVISION 2 - EXISTING CONDITIONS** 

0200. REFERENCES

a. DIVISIONS OO AND OI OF THESE GENERAL NOTES.

b. SPECIFICATIONS IN ALL DIVISIONS OF THE GENERAL NOTES ARE DIRECTLY APPLICABLE TO THIS SECTION AND THIS SECTION IS DIRECTLY APPLICABLE TO THEM.

c. THE AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE) ANSI/ASSE AIO.6. SAFETY AND HEALTH PROGRAM REQUIREMENTS FOR DEMOLITION

OPERATIONS 2. ANSI/ASSE AIO.44, CONTROL ENERGY SOURCES (LOCKOUT/TAGOUT) FOR CONSTRUCTION AND

DEMOLITION OPERATIONS

d. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

I. NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION

e. CODE OF FEDERAL REGULATIONS (CFR) 40 CFR I SUBCHAPTER C PART 82, PROTECTION OF STRATOSPHERIC OZONE

F. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) . OSHA 29 CFR 1926.850, DEMOLITION PREPARATORY PROCEDURES

2. OSHA 29 CFR 1926 SUBPART D, OCCUPATIONAL HEALTH AND ENVIRONMENTAL CONTROLS 3. OSHA 29 CFR 1926 SUBPART E, PERSONAL PROTECTIVE AND LIFESAVING EQUIPMENT 4. OSHA 29 CFR 1926 SUBPART K, ELECTRICAL

5. OSHA 29 CFR 1926 SUBPART M, FALL PROTECTION, CONSTRUCTION 6. OSHA 29 CFR 1926 SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES

d. EXISTING TO REMAIN: EXISTING ITEM THAT IS NOT TO BE REMOVED.

a. REMOVE: DETACH ITEM FROM EXISTING SURFACE AND LEGALLY DISPOSE OFF-SITE. b. REMOVE AND SALVAGE: DETACH ITEM FROM EXISTING SURFACE, PACKAGE TO PROTECT

AGAINST DAMAGE AND DELIVER TO THE OWNER. c. REMOVE, SALVAGE AND REINSTALL: DETACH ITEM FROM EXISTING SURFAGE, PREPARE FOR RE-USE AND REINSTALL WHERE INDICATED.

0202. PRIOR TO THE START OF INTERIOR DEMOLITION OPERATIONS, THE CONTRACTOR SHALL: a. CONDUCT AN ON-SITE COORDINATION MEETING

ATTENDEES ARE TO INCLUDE THE OWNER, THE ARCHITECT, THE STRUCTURAL ENGINEER AND ANY INDIVIDUAL OR GROUP HAVING JURISDICTIONAL INTEREST IN THE WORK.

2. <del>DISCUSSIONS ARE TO INCLUDE A DETAILED SCHEDULE OF THE WORK, COORDINATION FOR</del> SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES, DETAILS FOR DUST AND NOISE CONTROL, PROVISIONS FOR THE PROTECTION OF ELEMENTS TO REMAIN, SAFETY, METHODS OF DISPOSAL OF DEBRIS AND ANY OTHER ANTICIPATED INTERRUPTIONS OF THE OWNER'S OPERATIONS.

b. SUBMIT TO THE OWNER I. COPIES OF PERMITS AND NOTICES AUTHORIZING DEMOLITION OF DESIGNATED BUILDING

ELEMENTS ISSUED BY THE AHJ; 2. <del>DATE AND TIME STAMPED PHOTOGRAPHS OF EXISTING CONDITIONS ADJACENT TO AND OF THE</del> WORK AREA; AND

MISCONSTRUED AS DAMAGE RELATED TO DEMOLITION OPERATIONS. 0203. THE DEMOLITION OF ELEMENTS SUCH AS FIRE SUPPRESSION, PLUMBING, INVAC AND ELECTRICAL ARE TO BE PERFORMED BY THE SUBCONTRACTOR SPECIALIZED IN THE TYPE OF WORK INVOLVED.

4. WRITTEN EVIDENCE OF LIEN RELEASES RECEIVED FROM ALL SUBCONTRACTORS AND MATERIAL 0204. DEMOLITION IS TO BE PERFORMED BY PERSONS WITH DOCUMENTED EXPERIENCE DEMOLISHING ELEMENTS SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

3. DOCUMENTATION OF ANY EXISTING DAMAGE OR IRREGULARITIES THAT MIGHT BE

0205. ASSIGN REMOVAL AND CUTTING TO TRADES QUALIFIED TO PERFORM THE DEMOLITION WORK IN A MANNER TO CAUSE LEAST DAMAGE TO EACH TYPE OF ELEMENT.

0206. THE ARCHITECT AND OWNER ASSUME NO RESPONSIBILITY FOR THE ACTUAL CONDITION OF THE BUILDING STRUCTURE AND ELEMENTS TO BE DEMOLISHED.

a. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED AS MUCH AS PRACTICAL. HOWEVER, VARIATIONS WITHIN THE STRUCTURE MAY OCCUR DUE TO OWNER'S REMOVAL AND SALVAGE OPERATIONS BEFORE START OF DEMOLITION WORK.

b. AS THE WORK PROCRESSES, ITEMS INDICATED TO BE REMOVED AND OF SALVAGE VALUE TO THE CONTRACTOR SHALL BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. ON-SITE <del>STORAGE OR ON-SITE SALE OF REMOVED ITEMS WILL NOT BE PERMITTED.</del> c. AS THE WORK PROGRESS, ITEMS INDIGATED TO BE REMOVED AND SALVAGED TO THE OWNER

SHALL BE TRANSPORTED BY THE CONTRACTOR TO THE AREA DESIGNATED BY THE OWNER.

a. IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIALS WITHIN THE DEMOLITION AREA

REASONABLY BELIEVED TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC MATERIAL WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND REPORT, IN WRITING, TO THE OWNER AND ARCHITECT b. THE OWNER SHALL BE RESPONSIBLE FOR TESTING SUSPECTED ELEMENTS FOR THE PRESENCE OF

<del>AGBESTOS, LEAD, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC GUBSTANCE.</del> c. WORK IN ANY AFFECTED AREA SHALL NOT COMMENCE UNTIL THE SUSPECTED MATERIAL IS PROVEN NOT TO BE HAZARDOUS OR THE SUSPECTED MATERIAL IS RENDERED HARMLESS AND LEGALLY REMOVED BY A CONTRACTOR SPECIALIZED IN THE HANDLING AND DISPOSAL OF

0208, ANY EQUIPMENT SCHEDULED FOR DEMOLITION THAT CONTAINS REFRIGERANT IS TO BE REGOVERED IN ACCORDANCE WITH 40 CFR 82 AND EPA REQUIREMENTS. a. TECHNICIAN IS TO PROVIDE A WRITTEN STATEMENT TO THE CONTRACTOR CERTIFYING THAT THE

WORK HAS BEEN COMPLETED IN ACCORDANCE WITH REGULATIONS. 0209. THE CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMITS IN CONJUNCTION WITH HAULING AND LEGAL, OFF-SITE DISPOSAL OF DEMOLISHED, NON-HAZARDOUS MATERIALS, NOTHEY APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL COVERNING AUTHORITIES AS REQUIRED.

16. ANY OTHER MODIFICATION INFORMATION DEEMED NECESSARY FOR THE PROPER DOCUMENTATION O210. THE OWNER WILL OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO AREAS OF DEMOLITION. CONDUCT DEMOLITION OPERATIONS IN A MANNER THAT WILL MINIMIZE NEED FOR DISPUPTION OF THE OWNER'S OPERATIONS. PROVIDE A MINIMUM OF 12 HOURS NOTICE TO THE OWNER OF DEMOLITION ACTIVITIES THAT WILL AFFECT OWNER'S OPERATIONS.

> DO NOT USE CUTTING TORCH OR SPARK GENERATING EQUIPMENT UNTIL THE AREA IS CLEAR OF COMBUSTIBLE MATERIAL. PRIOR TO START, VERIFY THE LOCATION(S) AND CONDITIONS OF CONCEALED SPACES.

a. OBTAIN AND PAY FOR NECESSARY PERMITS REQUIRED FOR CUTTING TORCH WORK: b. PROVIDE AND MAINTAIN PORTABLE FIRE SUPPRESSION EQUIPMENT. c. PERFORM FIRE WATCH FOR THE DURATION OF THE CUTTING OPERATION AND A MINIMUM OF ONE HOUR AFTER THE COMPLETION OF THE CUTTING OPERATION.

0212. DO NOT GLOSE, BLOCK OR OTHERWISE OBSTRUCT ROOMS, BUILDING EXITS, STAIRS, CORRIDORS; WALKWAYS OR OTHER MEANS OF EGRESS DURING DEMOLITION OPERATIONS.

0213. ELEMENTS AND ADJACENT FINISHES THAT ARE SCHEDULED TO REMAIN ARE TO BE PROTECTED FOR THE DURATION OF THE PROJECT. IF ACCEPTABLE TO THE OWNER, THE ELEMENT(S) MAY BE REMOVED. STORED IN A SECURE LOCATION AND REINSTALLED. PROMPTLY REPAIR DAMAGE TO ADJAGENT

0214. MAINTAIN EXISTING UTILITIES INDIGATED TO REMAIN IN SERVICE TO THE EXISTING SCHOOL BUILDING AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS CONSTRUCTION. a. DO NOT INTERRUPT UTILITIES SERVING THE SCHOOL <del>OCCUPIED OR USED AREAS</del> UNTIL PROPERLY COORDINATED AND AUTHORIZED IN WRITING BY THE OWNER 72 HOURS IN ADVANCE OF THE PLANNED INTERRUPTION. IF DISRUPTIONS ARE NECESSARY, PROVIDE AND MAINTAIN ADEQUATE

0215. THE BURNING OR BURYING OF ANY DEBRIS IS PROHIBITED

FINISHES AS THE RESULT OF DEMOLITION WORK.

0216. OBTAIN AUTHORIZATION FROM THE OWNER PRIOR TO CLOSING OR OBSTRUCTING DRIVES, PARKING AREAS, PRIVATE SIDEWALKS, ETC.

TEMPORARY SERVICES ACCEPTABLE TO THE OWNER AND AUTHORITIES HAVING JURISDICTION.

O2IT. GOORDINATE AND OBTAIN AUTHORIZATION FROM AUTHORITIES HAVING JURISDICTION FOR ANY CLOSURE OR BLOCKAGE TO PUBLIC ALLEYS, STREETS, SIDEWALKS, ETC.

a. PRIOR TO THE START OF DEMOLITION OPERATIONS, THE CONTRACTOR IS TO CONDUCT AN ON-SITE **COORDINATION MEETING** ATTENDEES ARE TO INCLUDE THE OWNER; ANY INDIVIDUAL OR GROUP HAVING JURISDICTIONAL INTEREST IN THE WORK, SUCH AS FOR ROAD CLOSURES OR BLOCKAGES, FIRE PROTECTION. ETC.: A REPRESENTATIVE FROM EACH UTILITY PROVIDER: OWNERS OF ADJACENT PROPERTIES AND THE ARCHITECT AND STRUCTURAL ENGINEER.

DISCUSSIONS ARE TO INCLUDE A DETAILED SCHEDULE OF THE WORK, SAFETY, ROAD CLOSURES, METHODS OF DISPOSAL OF DEBRIS, DUST CONTROL AND PROTECTION OF ADJACENT AREAS. b. PROVIDE PROTECTION OF OPEN EXCAVATIONS UNTIL CAN NO LONGER BE CONSIDERED UNGAFE: c. REFERENCE THIS GENERAL NOTES SECTION FOR OTHER REQUIREMENTS.

0219. MAINTAIN FIRE PROTECTION SERVICES AND EQUIPMENT DURING DEMOLITION OPERATIONS.

0220. MATERIAL OWNERSHIP

a. DEMOLISHED MATERIAL, EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RE-USED, <del>SALVAGED OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY AND EXCEPT AS</del>

INDICATED HEREIN, SHALL BE THE CONTRACTOR'S PROPERTY. I. ANY DEMOLISHED MATERIAL CONSIDERED TO BE REUSABLE SHALL BE DONATED TO THE

LOCAL HABITAT FOR HUMANITY. 2. ANY DEMOLISHED MATERIAL CONSIDERED RECYCLABLE SHALL BE DONATED TO THE LOCAL COMMUNITY ACTION AGENCY RECYCLING CENTER OR OTHER LOCAL INTERESTED ENTITY. NO

MONEY COMPENSATION SHALL BE RECEIVED FOR THE RECYCLED MATERIAL UNLESS SAME CREDIT HAS BEEN GIVEN TO THE OWNER. o. H<del>istorical Items, relics and similar objects including, but not limited to</del> COMMEMORATIVE PLAQUES AND TABLETS, ANTIQUES, MONUMENTS AND OTHER ITEMS OF INTEREST OR VALUE TO THE OWNER WHICH MAY BE ENCOUNTERED DURING DEMOLITION, REMAIN THE OWNER'S

PROPERTY. GAREFULLY REMOVE AND SALVAGE EACH ITEM OR OBJECT IN A MANNER TO

0221. DO NOT USE JACKHAMMERS OR OTHER HEAVY-DUTY IMPACT-TYPE TOOLS FOR DEMOTION WORK <del>NITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT OR STRUCTURAL ENGINEER.</del>

PREVENT DAMAGE AND DELIVER PROMPTLY TO THE OWNER.

AND IMMEDIATELY NOTIFY THE ARCHITECT.

REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

0222. PERFORM DEMOLITION BY METHOD OF CONTRACTOR'S CHOICE EXCEPT AS OTHERWISE INDICATED. a. IF SAFETY OF THE STRUCTURE APPEARS TO BE COMPROMISED, CEASE DEMOLITION OPERATIONS

b. UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS, TAKE NECESSARY PRECAUTIONS TO SUPPORT THE STRUCTURE.

c. PERFORM WORK IN AN EFFICIENT, SYSTEMATIC MANNER WITHOUT DELAYS OR UNSCHEDULED

d. IMMEDIATELY CLEAN ALL ADJACENT AREAS OF DUST, DUST AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AND RETURN TO ORIGINAL OR LIKE NEW CONDITION THAT EXISTED BEFORE THE START OF THE WORK,

(SAW-CUTTING MACHINERY, WELDERS, ETC.), SHALL BE ELECTRICAL OR PROPANE POWERED OR BE

0223. TO PREVENT THE UNGAFE ACCUMULATION OF EXHAUST IN THE BUILDING, ALL POWERED EQUIPMENT,

<del>9UTFITTED WITH AN APPROVED EXHAUST SCRUBBER, COORDINATE SPECIAL ELECTRICAL</del>

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GENERAL NOTES **DIVISION** THROUGH **DIVISION 2** 

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All drawings are and shall be the properti

c. THICKENED SLABS

h. Not used.

i. NOT USED.

b. PIERS

d. SLABS-ON-GRADE e. INTERIOR EQUIPMENT AND OTHER SPECIALTY PADS

f. SLABS-ON-DECK q. POURED-IN-PLACE WALLS

0301. FOR EXTERIOR SITE CONCRETE, REFERENCE DIVISION 32 OF THESE GENERAL NOTES. FOR SUBBASE MATERIAL REFERENCE DIVISION 31 OF THESE GENERAL NOTES.

0302. PROVIDE SUBMITTAL IN ACCORDANCE WITH GENERAL NOTES SECTION 0141. a. CONCRETE MIX DESIGNS FOR CLASSES I, II, III AND IV.

b. STEEL REINFORCING SHOP DRAWINGS

c. LIQUID MEMBRANE-FORMING COMPOUND. d. ADMIXTURES

e. LABORATORY REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TESTING. F. CERTIFICATION FROM ADMIXTURE MANUFACTURER(S) THAT CHLORIDE CONTENT CONFORMS WITH THE GENERAL NOTES SECTION REQUIREMENTS.

0303. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

a. DIVISIONS OO AND OI OF THESE GENERAL NOTES. b. SPECIFICATIONS IN ALL DIVISIONS OF THESE GENERAL NOTES ARE DIRECTLY APPLICABLE TO THIS SECTION AND THIS SECTION IS DIRECTLY APPLICABLE TO THEM.

c. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI): I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES d. AMERICAN CONCRETE INSTITUTE (ACI):

. ACI 117, SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS

2. ACI 201, GUIDE TO DURABLE CONCRETE 3. ACI 212, REPORT ON CHEMICAL ADMIXTURE FOR CONCRETE

4. ACI 222R, PROTECTION OF METALS IN CONCRETE AGAINST CORROSION

5. ACI 224, JOINTS IN CONCRETE CONSTRUCTION

6. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE 7. ACI 302, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION

8. ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE 9. ACI 305R, GUIDE AND STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING

IO. ACI 306R, GUIDE AND STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING II. ACI 308R, GUIDE TO CURING CONCRETE

12. ACI 308.1, SPECIFICATION FOR CURING CONCRETE

13. ACI 311.6, SPECIFICATION FOR READY MIX CONCRETE TESTING SERVICES

14. ACI 311.7, INSPECTION SERVICES SPECIFICATION FOR CAST-N-PLACE CONCRETE CONSTRUCTION 15. ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

16. ACI 34TR, GUIDE TO FORMWORK FOR CONCRETE e. AMERICAN WELDING SOCIETY (AWS):

I. AMS DI.I, STRUCTURAL WELDING CODE FOR REINFORCING STEEL

:. CONCRETE REINFORCING STEEL INSTITUTE (CRSI): MANUAL OF STANDARD PRACTICE

2. PLACING REINFORCING BARS q. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):

I. NFPA 70, NATIONAL ELECTRIC CODE

h. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM):

I. ASTM A615, STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR CONCRETE REINFORCEMENT

2. ASTM A853, STANDARD SPECIFICATION FOR STEEL WIRE, CARBON, FOR GENERAL USE 3. ASTM AIO64, STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE

4. ASTM C3I, STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE

5. ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATE 6. ASTM C39, STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL

CONCRETE SPECIMENS 1. ASTM C94, STANDARD SPECIFICATION FOR READY-MIX CONCRETE

8. ASTM CI43, STANDARD TEST METHOD FOR SLUMP OF HYDRAULIC CEMENT CONCRETE

9. ASTM CI50, STANDARD SPECIFICATION FOR PORTLAND CEMENT IO. ASTM CITI, STANDARD SPECIFICATION FOR SHEET MATERIAL FOR CURING CONCRETE

II. ASTM C330, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES FOR STRUCTURAL

12. ASTM C470, STANDARD SPECIFICATION FOR MOLDS FOR FORMING CONCRETE TEST CYLINDERS

VERTICALLY

. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE

14. ASTM C778, STANDARD SPECIFICATION FOR STANDARD SAND 15. ASTM C881, STANDARD SPECIFICATION FOR EPOXY-RESIN-BASED BONDING SYSTEMS FOR

16. ASTM CI059, STANDARD SPECIFICATION FOR LATEX AGENTS FOR BONDING FRESH TO HARDENED CONCRETE

17. ASTM CI315, STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS HAVING

SPECIAL PROPERTIES FOR CURING AND SEALING CONCRETE 18. ASTM CI582, STANDARD SPECIFICATION FOR ADMIXTURES TO INHIBIT CHLORIDE-INDUCED

CORROSION OF REINFORCING STEEL IN CONCRETE

19. ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF HYDRAULIC CEMENT CONCRETE

20.ASTM C1697, STANDARD SPECIFICATION FOR BLENDED SUPPLEMENTARY CEMENTITIOUS 21. ASTM DIT5I, STANDARD SPECIFICATION FOR PREFORMED EXPANSION JOINT FILLER

22.ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 23. ASTM EII55, STANDARD TEST METHOD FOR DETERMINING F(F) FLOOR FLATNESS AND F(I) FLOOR LEVELNESS NUMBERS

24.ASTM EI543, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS

25. ASTM EI745, STANDARD SPECIFICATION FOR WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS

a. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE DRAWINGS.

WATER/CEMENT RATIO FOOTINGS, PIERS, 3,000 p.s.i. 0.58 FOUNDATION WALLS SLABS-ON-GRADE (INTERIOR) 3,500 p.s.i. 0.50 SLABS-ON-GRADE (EXTERIOR) 4,500 p.s.i. 0.40 AND ALL EXTERIOR CONCRETE (AIR ENTRAINED) NOT OTHERWISE IDENTIFIED

BACKFILL BELOW FOOTING 2,500 p.s.i. 0.67

b. PROVIDE "LEAN CONCRETE" (CLASS IV) BELOW "OVER EXCAVATIONS", SOFT AREAS, ETC.

c. REFERENCE THE DRAWINGS FOR SPECIFIC LOAD INFORMATION. d. WATER/CEMENT RATIO: IF SUITABLE DATA FROM FIELD EXPERIENCE OR LABORATORY TRIAL BATCHES CANNOT BE OBTAINED, CONCRETE PORTIONS SHALL BE ESTABLISHED UTILIZING THE

"WATER CEMENT RATIO LIMITS TABLE" AND LIMIT RESTRICTIONS OF ACI 301.

0305. READY-MIX QUALIFICATIONS

a. A FIRM EXPERIENCED IN MANUFACTURING READY-MIX CONCRETE PRODUCTS AND COMPLIES WITH ASTM C94 REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT. b. CERTIFIED ACCORDING TO NATIONAL READY MIX CONCRETE ASSOCIATION'S (NRMCA)

"CERTIFICATION OF READY-MIX CONCRETE PRODUCTION FACILITIES"

0306. ADMIXTURE MANUFACTURER QUALIFICATIONS a. A FIRM EXPERIENCED IN MANUFACTURING CHEMICAL ADMIXTURES FOR CONCRETE IN COMPLIANCE

WITH ASTM C494. a. CONTRACTOR SHALL COORDINATE AND PAY FOR CONCRETE TESTING UTILIZING TESTING LAB THAT

IS APPROVED BY OWNER. PROVIDE REPORT TO ARCHITECT. b. TESTING AGENCY REQUIREMENTS

b.a. AN INDEPENDENT AGENCY QUALIFIED ACCORDING TO ASTM CIOTT AND ASTM E329 FOR TESTING INDICATED.

PERSON CONDUCTING FIELD TESTS SHALL BE QUALIFIED AS AN ACI CONCRETE FIELD TESTING TECHNICIAN, GRADE I, ACCORDING TO ACI CP-OI, OR AN EQUIVALENT CERTIFICATION

PERSON PERFORMING LABORATORY TESTS SHALL BE AN ACI CERTIFIED CONCRETE STRENGTH TESTING TECHNICIAN AND CONCRETE LABORATORY TESTING TECHNICIAN, GRADE I.

b.d. TESTING AGENCY LABORATORY SUPERVISOR SHALL BE AN ACI CERTIFIED CONCRETE LABORATORY TESTING TECHNICIAN, GRADE II.

0310. MATERIALS: a. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS.

> 3. NORMAL WEIGHT AGGREGATES: CLEAN, FINE AND COURSE, COMPLYING WITH ASTM C 33; I-I/2 INCH, I INCH OR 3/4 INCH; FROM ONE SOURCE; USE OF PIT OR BANK-RUN GRAVEL IS NOT

4. LIGHTWEIGHT AGGREGATES: COMPLYING WITH ASTM C330; I INCH, 3/4 INCH, I/2 INCH OR 3/8

5. POTABLE WATER: COMPLYING WITH ASTM C1602 AND ASTM C1603.

WATER-REDUCING: ASTM C494, TYPE A. 2. RETARDING: ASTM C494, TYPE B.

4. WATER-REDUCING RETARDER: ASTM C494, TYPE D.

6. WATER-REDUCING HIGH RANGE ADMIXTURE: ASTM C494, TYPE F.

7. USE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS. d. DEFORMED REINFORCING BARS: ASTM A615, GRADE 60.

SIZES, SHAPES AND LOCATIONS AS INDICATED ON THE STRUCTURAL DRAWINGS 2. FOOTING CORNER BARS: MATCH HORIZONTAL REINFORCING; MINIMUM LENGTH OF EACH LEG SHALL BE 45 BAR DIAMETERS.

e. FIBRILLATED POLYPROPYLENE FIBER. I. USED WHERE WELDED WIRE FABRIC IS NON-STRUCTURAL OR AS A REPLACEMENT FOR

NON-STRUCTURAL WELDED WIRE FABRIC. 2. QUANTITY AND LENGTH RECOMMENDED BY THE MANUFACTURER FOR THE TYPE OF CONCRETE

WORK INVOLVED. 3. MANUFACTURER: FORTA CORP., GROVE CITY PA; OR APPROVED EQUAL.

STRUCTURAL DRAWINGS. q. DEFORMED WELDED STEEL WIRE FABRIC: PER ASTM A497; SIZE AND LOCATION AS INDICATED ON

THE STRUCTURAL DRAWINGS.

FOR SPACING, SUPPORTING AND FASTENING REINFORCEMENT IN PLACE. . MANUFACTURED FROM STEEL, WIRE, PLASTIC OR PRECAST CONCRETE THAT IS OF GREATER COMPRESSION STRENGTH THAN THE CONCRETE

2. IN COMPLIANCE WITH CRSI RECOMMENDATIONS WATER-STOP: CONTINUOUS, FLEXIBLE RUBBER WITH FACTORY INSTALLED METAL EYELETS; COMPLY

. MANUFACTURER: GREENSTREAK . VAPOR BARRIER: REFERENCE DIVISION 07 OF THE GENERAL NOTES. I. EXPANSION AND ISOLATION JOINT FILLER: ASPHALT SATURATED CELLULOSIC FIBER IN

COMPLIANCE WITH ASTM DITSI; WITH REMOVABLE CAP FOR SEALANT PLACEMENT. m. SEALANT: REFERENCE DIVISION OF THE GENERAL NOTES.

n. CURE AND SEAL: REFERENCE THIS DIVISION OF THE GENERAL NOTES. o. ALL REINFORCEMENT SHALL BE FREE OF OIL, SCALE, DIRT, RUST AND OTHER DEBRIS THAT WOULD REDUCE OR DESTROY BOND WITH THE CONCRETE.

0311. CONCRETE MIXING

b. WHEN AMBIENT AIR TEMPERATURE IS BETWEEN 85 DEGREE F AND 90 DEGREES F, REDUCE MIXING

c. WHEN AMBIENT AIR TEMPERATURE IS ABOVE 90 DEGREES F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES. d. WHEN AMBIENT AIR TEMPERATURE HAS FALLEN, OR IS EXPECTED TO FALL BELOW 40 DEGREES F, AND BEFORE MIXING, UNIFORMLY HEAT WATER AND AGGREGATES AS REQUIRED TO OBTAIN A

DEGREES F AT POINT OF PLACEMENT. DO NOT USE FROZEN MATERIALS OR MATERIALS ADMIXTURES UNLESS OTHERWISE ACCEPTED IN MIX DESIGN. e. DELETE THE REFERENCES FOR ALLOWING ADDITIONAL WATER TO BE ADDED TO THE BATCH FOR

MATERIALS WITH INSUFFICIENT SLUMP. F. READY-MIX SUPPLIER IS TO PROVIDE A BATCH TICKET FOR EACH LOAD TO THE INDEPENDENT

TESTING AGENCY FIELD TECHNICIAN AT THE TIME OF DELIVERY. 0312. <del>DESIGN, CONSTRUCT, ERECT, MAINTAIN AND REMOVE FORMS AND RELATED STRUCTURES FOR</del>

a. FORMWORK SHALL SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MICHT BE APPLIED UNTIL CONCRETE STRUCTURE CAN SUPPORT SUCH LOADS. CONSTRUCT FORMWORK SO CONCRETE MEMBERS - AND STRUCTURES ARE OF CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION, MAINTAIN FORM-WORK CONSTRUCTION TOLERANCES.

b. MATERIALS 1. SMOOTH CONCRETE: FORM FACING PANELS SHALL PROVIDE TRUE, CONTINUOUS SMOOTH

SURFACE; LARGEST PRACTICAL SIZE TO MINIMIZE JOINTS. 2. ROUGH CONCRETE: PLYWOOD, LUMBER, METAL OR OTHER APPROVED MATERIAL PAPER OR FIBER TUBES; OF SUFFICIENT THICKNESS TO RESIST CONCRETE LOADS WITHOUT

4. CHAMFER STRIPS: METAL, LUMBER, PVC OR RUBBER; MINIMUM SIZE 3/4 INCHES BY 3/4 INCHES. 5. F<del>orm release agent: commercially formulated material that will not bond with,</del> STAIN OR ADVERSELY AFFECT CONCRETE SURFACES NOR AFFECT SUBSEQUENT TREATMENTS OF CONCRETE SURFACES: SHALL INCLUDE RUST INHIBITING ACENTS WHEN USED ON METAL FORMS, COAT CONTACT SURFACES OF FORM-WORK BEFORE PLACING REINFORCEMENT.

0313. TOLERANCES: IN COMPLIANCE WITH ACI IIT, ICC/ANSI IIT.I AND FLOOR COVERING MANUFACTURER. a. UNLESS OTHERWISE INDICATED OR SPECIFIED BY THE FLOOR COVERING MANUFACTURER, THE SUBSTRATE FOR FLOOR COVERINGS SHALL BE STEEL TROWELED AND LEVEL TO A TOLERANCE 0326. CONCRETE TREAD AND STAIR NOSING SHALL BE IN COMPLIANCE WITH ICC AIIT.I. OF I/8 INCH IN A TEN (IO) FOOT RADIUS.

0314. COLD WEATHER PLACEMENT

a. COMPLY WITH THE REQUIREMENTS OF ACI 306. b. PROTECT WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY

FROST, FREEZING ACTIONS OR LOW TEMPERATURES. c. DO NOT PLACE CONCRETE ON FROZEN SUBSTRATE OR SUBBASE COURSE.

0315. HOT WEATHER PLACEMENT

a. COMPLY WITH THE REQUIREMENTS OF ACI 305. b. COOL INGREDIENTS BELOW 90 DEGREES F BEFORE MIXING TO MAINTAIN CONCRETE

TEMPERATURES AT TIME OF PLACEMENT. c. MIXING WATER MAY BE CHILLED OR CHIPPED ICE MAY BE USED TO CONTROL THE CONCRETE

d. COVER REINFORCING STEEL WITH WATER-SOAKED BURLAP IF IT BECOMES TOO HOT. THE STEEL TEMPERATURE SHALL NOT EXCEED THE AMBIENT AIR TEMPERATURE IMMEDIATELY BEFORE EMBEDMENT IN CONCRETE.

e. THOROUGHLY WET FORMS BEFORE PLACING CONCRETE. F. DO NOT USE RETARDING ADMIXTURES UNLESS OTHERWISE ACCEPTED IN MIX DESIGN.

0316. SLUMP LIMITS: PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF

PLACEMENT. a. RAMPS AND SLOPING SURFACES: NOT MORE THAN THREE INCHES b. SLABS-ON-GRADE: NOT LESS THAN ONE INCH, AND NOT MORE THAN THREE INCHES.

c. OTHER CONCRETE: NOT LESS THAN ONE INCH, AND NOT MORE THAN FOUR INCHES. d. IF SUPER PLASTICIZER IS USED, INITIAL SLUMP SHALL BE TWO TO THREE INCHES, INCREASED TO

0317. INTERIOR CONCRETE FINISH AND TOLERANCE a. IN COMPLIANCE WITH ASTM F710, ACI 117, ACI 302, ICC/ANSI 117.1, ANSI 108.01 AND TESTED IN ACCORDANCE WITH ASTM EII55

b. STAIN OR NO COVERING: STEEL TROWEL FINISH; CLASS A TOLERANCE. c. RESILIENT FLOOR COVERING: STEEL TROWEL FINISH: CLASS A TOLERANCE. d. CARPET: STEEL TROWEL FINISH: CLASS A TOLERANCE.

q. SPECIFIED OVERALL VALUE: F(F)35/F(I)25; VERIFY WITH FLOOR-COVERING MANUFACTURER. MINIMUM LOCAL VALUE: FLAT: 3/5 OF SPECIFIED OVERALL VALUE. FLOOR SURFACE CLASSIFICATION USING MANUAL STRAIGHTEDGE METHOD

 MAXIMUM GAP, 90 PERCENT COMPLIANCE, SAMPLES NOT TO EXCEED: FLAT; I/4 INCH 2. MAXIMUM GAP, IOO PERCENT COMPLIANCE, SAMPLES NOT TO EXCEED: FLAT; 3/8 INCH a. LOCATE AND INSTALL CONSTRUCTION JOINTS, WHICH ARE NOT SHOWN ON THE DRAWINGS, SO AS

NOT TO IMPAIR THE STRENGTH AND APPEARANCE OF THE STRUCTURE AS ACCEPTABLE TO I. PLACE CONSTRUCTION JOINTS AT THE END OF POURS AND AT LOCATIONS WHERE PLACEMENT OPERATIONS ARE STOPPED FOR A PERIOD OF MORE THIRTY (30) MINUTES EXCEPT WHERE SUCH POURS TERMINATE AT EXPANSION JOINTS.

2. USE STANDARD METAL KEYWAY SECTION FORM 3. PROVIDE KEYWAYS AT LEAST I-I/2 INCH DEEP IN CONSTRUCTION JOINTS IN SLABS. 4. LOCATE CONSTRUCTION JOINTS IN SLABS-ON-GROUND, SO AS TO DIVIDE INTO AREAS NOT IN EXCESS OF 4000 SQ. FT. (MAXIMUM DISTANCE OF 75 FEET IN ONE DIRECTION), UNLESS OTHERWISE ACCEPTED BY THE OWNER'S REPRESENTATIVE. CONFORM TO SLAB PLACEMENT

DIAGRAMS OR PATTERN LAYOUTS FOR PLACEMENT, WHERE SHOWN. b. EXPANSION JOINTS I. PROVIDE PRE-MOLDED JOINT FILLER FOR EXPANSION JOINTS ABUTTING CONCRETE CURBS

(EXCEPT) IN INTEGRAL WORK AND CURB), CATCH BASINS, MANHOLES, INLETS, STRUCTURES, AND OTHER FIXED OBJECTS. 2. SET AND SECURE CONTINUOUS EXPANSION JOINTS WHERE EDGE OF SLAB ABUTS VERTICAL

3. LOCATE EXPANSION JOINTS AT 30 FEET O.C. FOR WALKS AND CURBS, UNLESS OTHERWISE

4. FURNISH JOINT FILLERS IN ONE-PIECE. EXTEND JOINT FILLERS FUL-WIDTH AND DEPTH OF JOINT, FLUSH WITH FINISHED SURFACE. :. CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE I. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE TO FORM PANELS OR PATTERNS. USE INSERTS

1/5 TO 1/4 OF SLAB DEPTH, UNLESS OTHERWISE INDICATED. CENTER TO CENTER.

b) 6 IN. SLAB THICKNESS: MINIMUM TWELVE (12) FEET CENTER TO CENTER, MAXIMUM FIFTEEN (15) FEET CENTER TO CENTER. 2. AT CONTRACTOR'S OPTION, CONTROL JOINTS MAY BE PRODUCED BY SAW CUTS 3/4 TO I-INCH 

THE MACHINE WEIGHT WITHOUT CAUSING SURFACE BLEMISHES.

0320. FINISH OF FORMED SURFACES a. ROUGH FORM FINISH (RFFM-FN): FOR FORMED CONCRETE SURFACES NOT EXPOSED-TO-VIEW IN THE FINISH WORK OR BY OTHER CONSTRUCTION, UNLESS OTHERWISE SHOWN OR SPECIFIED. b. SMOOTH FORM FINISH (SmFm-Fn); FOR FORMED CONCRETE SURFACES NOT EXPOSED-TO-VIEW OR

THAT ARE TO BE COVERED WITH A COATING MATERIAL APPLIED DIRECTLY EXPANSION JOINTS I. PROVIDE PRE-MOLDED JOINT FILLER FOR EXPANSION JOINTS ABUTTING CONCRETE CURBS (EXCEPT) IN INTEGRAL WORK AND CURB), CATCH BASINS, MANHOLES, INLETS, STRUCTURES, AND OTHER FIXED OBJECTS. 2. SET AND SECURE CONTINUOUS EXPANSION JOINTS WHERE EDGE OF SLAB ABUTS VERTICAL

3. LOCATE EXPANSION JOINTS AT 30 FEET O.C. FOR WALKS AND CURBS, UNLESS OTHERWISE

4. FURNISH JOINT FILLERS IN ONE-PIECE. EXTEND JOINT FILLERS FUL-WIDTH AND DEPTH OF JOINT,

FLUSH WITH FINISHED SURFACE. 0321. FOR INTERIOR SLABS <u>NOT</u> SCHEDULED TO RECEIVE FLOOR COVERINGS, PROVIDE A NON-PIGMENTED, WAX-RESIN TYPE LIQUID MEMBRANE CURING COMPOUND. COMPOUND SHALL BE IN COMPLIANCE WITH

ASTM C309, TYPE I AND ID, CLASS A. a. MANUFACTURERS:

> I. KUREZ W VOX; EUCLID CHEMICAL CO. 2. KURE-N-SEAL MB; SONNEBORN BUILDING PRODUCTS.

3. I300-CLEAR; W.R. MEADOWS. b. APPLICATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS c. VERIFY COMPATIBILITY WITH MOISTURE BARRIERS, LINE MARKING TAPE OR PAINT AND SEALANTS

SPECIFIED IN THE TECHNICAL SPECIFICATIONS. 0322. FOR INTERIOR SLABS SCHEDULED TO RECEIVE FLOOR COVERINGS, PROVIDE A NON-PICMENTED, VOC COMPLIANT, LIQUID MEMBRANE CURING COMPOUND. COMPOUND SHALL BE IN COMPLIANCE WITH ASTM CI315, TYPE I OR ID, CLASS A.

a. MANUFACTURERS: I. K<del>URE-N-SEAL 25 LV; BASF BUILDING PRODUCTS.</del>

2. SUPER DIAMOND CLEAR VOX: EUCLID CHEMICAL 3. CRYSTAL CLEAR SEAL 1315; LAMBERT

 b. APPLICATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS c. VERIFY COMPATIBILITY WITH FLOOR COVERING ADHESIVES, MOISTURE BARRIERS AND SEALANTS SPECIFIED IN THE GENERAL NOTES.

0323. NOT USED.

0324. PROVIDE THE FOLLOWING FINISHES:

a. FLOAT FINISH FOR AREAS TO BE EXPOSED OR TO RECEIVE CERAMIC AND QUARRY TILE, CLASS B TOLFRANCE b. TROWELED FINISH FOR FLOORS INTENDED FOR RECEPTION OF RESILIENT AND CARPET FLOOR

COVERINGS, CLASS A TOLERANCE. BROOM FINISH FOR EXTERIOR SLABS AND SIDEWALKS, CLASS B TOLERANCE WITH TOOLED JOINTS AND EDGES WITH RIDGES NOT TO EXCEED 1/8 INCH. AT CONTRACTOR'S OPTION "SAW-CUT" JOINTS WILL BE ACCEPTABLE.

d. Non-slip finish for stair treads, ramps (interior and exterior) and elsewhere as

0325. EXPOSED CONCRETE WALLS NOT SCHEDULED FOR OTHER FINISHES SUCH AS BRICK VENEER, EIFS AND/OR STUCCO ARE TO BE PATCHED AND RUBBED FOR A DURABLE, UNIFORM AND SMOOTH

APPEARANCE, PREPARE INTERIOR FOR PAINT IN LOCATIONS INDICATED ON THE DRAWINGS.

0327. PROVIDE AND MAINTAIN COVERING MATERIAL OVER ROUGH AND FINISH GRADES THAT PROTECT, AGAINST STAINING DUE TO SPLASH-UP, CONCRETE SURFACES THAT REMAIN EXPOSED AT THE

0328. CONCRETE SURFACE REPAIRS a. PATCHING DEFECTIVE AREAS: REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, BUT ONLY WHEN ACCEPTABLE TO THE OWNER OR

I. HYDRAULIC GEMENT-BASED, POLYMER MODIFIED IN ACCORDANCE WITH ASTM C 219: SELF-LEVELING PRODUCT THAT CAN BE APPLIED TO A MINIMUM UNIFORM THICKNESS OF 1/4 INCH AND CAN BE FEATHERED TO MATCH ADJACENT FLOOR ELEVATIONS; CEMENT BINDER IN ACCORDANCE WITH ACTIM C 150: RESILIENT-EMULSION ADDITIVE; SHALL ACHIEVE A MINIMUM

COMPRESSION STRENGTILLOF 4,100 PSLAT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM 2. AGGREGATE: WELL GRADED; WASHED; I/8 TO I/4 INCH; AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER.

3. COARSE SAND: AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER. 4. POTABLE WATER. 5. REINFORGEMENT: FOR USE OVER WOOD SUBSTRATE; GALVANIZED METAL LATIH OR OTHER

CONDITIONS: 1. CORROSION REGISTANT COATING: AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR METAL SUBSTRATES.

b. TO PREVENT TELEGRAPHING THROUGH THE UNDERLAYMENT, TREAT ALL NON-MOVING SUBSTRATE

CRACKS PER THE UNDERLAYMENT MANUFACTURER'S WRITTEN INSTRUCTIONS. . FILL SUBSTRATE VOIDS TO PREVENT LEAKAGE.

d. APPLICATION ON CONCRETE SUBSTRATE I. MECHANICALLY REMOVE, IN ACCORDANCE WITH THE UNDERLAYMENT MANUFACTURER'S WRITTEN INSTRUCTIONS, LAINTANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, FORM RELEASE

PROCEED WITH INSTALLATION AFTER SUBSTRATE DOES NOT EXCEED A MAXIMUM <del>MOISTURE-VAPOR-EMISSION RATE OF 3 LBS, OF WATER PER ONE THOUSAND SQUARE FEET IN</del> e. THE INSTALLING CONTRACTOR SHALL BE MANUFACTURER APPROVED AND HAVE NO LESS THAN

FIVE YEARS OF DOCUMENTED EXPERIENCE WITH THE APPLICATION OF CEMENT-BASED

UNDERLAYMENTS AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

0330. STEEL REINFORGED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTERS 16 AND 19,

0331. GROUND AND BOND STEEL REINFORCEMENT IN ACCORDANCE WITH NFPA 70.

0332. UNLESS OTHERWISE SPECIFIED, INSTALL REINFORGING TO PROVIDE MINIMUM CONCRETE COVER AS

OBC, ACI 318 AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) HANDBOOK.

a. CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH: 3 INCHES. b. No. 6 THROUGH No. 8 EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: 2 INCHES

c. No. 5, W3I WIRE, D3I WIRE OR SMALLER EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: I-I/2 d. NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:

I. No. 14 AND No. 18 IN SLABS, JOISTS AND WALLS: 1-1/2 INCHES. 2. No. II AND SMALLER IN SLABS, JOISTS AND WALLS: 3/4 INCHES.

3. ALL REINFORCEMENT, STIRRUPS, TIES, SPIRALS AND HOOPS IN BEAMS, COLUMNS, PEDESTALS

AND TENSION TIES: 1-1/2 INCHES. 0333. INSTALL ITEMS FURNISHED UNDER OTHER DIVISIONS OF THE GENERAL NOTES. a. SLEEVES FOR PLUMBING PIPING, FIRE SUPPRESSION PIPING, ELECTRICAL CONDUITS, CABLES,

LOW-VOLTAGE WIRING AND HVAC DUCTING AND PIPING. b. ANCHOR BOLTS AND OTHER HOLD-DOWN DEVICES. c. EMBEDS FOR STRUCTURAL STEEL WORK.

d. EMBEDS FOR COLD-FORMED METAL JOIST FRAMING WORK. e. HOLLOW METAL FRAMES. f. NOT USED.

a) 4 IN. SLAB THICKNESS: MINIMUM EIGHT (8) FEET CENTER TO CENTER, MAXIMUM TEN (10) FEET 0334. PROVIDE FORMED OPENINGS FOR ITEMS FURNISHED UNDER OTHER DIVISIONS OF THE GENERAL NOTES. a. HVAC DUCTING AND PIPING. b. STEEL COLUMNS.

c. STEEL BEAMS. d. ELECTRICAL CONDUIT. e. CABLES

F. LOW-VOLTAGE WIRING. a. PLUMBING PIPING. i. FIRE SUPPRESSION PIPING. COLD-FORMED METAL JOIST FRAMING.

HOLLOW METAL FRAMES. k. Not used. I. NOT USED.

q. NOT USED.

0335. CONCRETE CURING AND PROTECTION a. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES AND MAINTAIN DRYING AT A RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD OF TIME NECESSARY FOR HYDRATION OF CEMENT AND PROPER HARDENING.

b. START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE AFTER PLACING AND FINISHING.

c. BEGIN FINAL CURING PROCEDURES IMMEDIATELY FOLLOWING INITIAL CURING AND BEFORE CONCRETE HAS DRIED. CONTINUE IN ACCORDANCE WITH ACI 301 AND ACI 308 PROCEDURES. d. MOISTURE CURING: UTILIZING WATER-FOG SPRAY, KEEP CONCRETE SURFACE CONTINUOUSLY WET BY COVERING WITH POTABLE WATER: COVER CONCRETE SURFACE WITH SPECIFIED ABSORPTIVE COVER, THOROUGHLY SATURATING COVER WITH POTABLE WATER AND KEEPING CONTINUOUSLY WET;

12 INCH LAP OVER ADJACENT ABSORPTIVE COVERS. e. CURING CONCRETE WITH EARTH, SAND, SAWDUST OR STRAW IS PROHIBITED.

PROVIDE TERMITE SOIL TREATMENT UNDER BUILDING SLABS-ON-GRADE (INCLUDING ATTACHED), AND BUILDING FOOTINGS; GRAWLSPACES; AND THE ENTIRE PERIMETER OF INTERIOR FOUNDATION WALLS; GOLUMN FOOTING, PIERS AND SLAB PENETRATIONS; WITH CHEMICALS PER U. S. DEPARTMENT OF AGRICULTURE (USDA) RECOMMENDATIONS CONTAINED IN USDA H&G BULLETIN No. 64. a. THE INSTALLING CONTRACTOR SHALL BE A LICENSED, CERTIFIED SPECIALIST AND HAVE NO LESS

THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH TERMITE SOIL TREATMENT AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT. b. UPON COMPLETION OF THE WORK, THE INSTALLING CONTRACTOR SHALL FURNISH A SOIL <del>TREATMENT APPLICATION REPORT THAT IS TO INCLUDE THE FOLLOWING INFORMATION.</del>

. DATE AND TIME OF APPLICATION. 2. MOISTURE CONTENT OF THE SOIL BEFORE APPLICATION. 3. BRAND AND MANUFACTURER OF THE TERMITICIDE.

4. QUANTITY (UNDILUTED) USED. 5. DILUTION, METHOD AND RATE OF APPLICATION.

THE ABOVE REQUIREMENTS.

TO THE OWNER.

THE DRAWINGS.

. APPLICATION AREAS WATER SOURCE USED FOR DILUTION. c. UPON COMPLETION OF THE WORK, THE INSTALLING CONTRACTOR SHALL FURNISH A NON-GANGELABLE, TRANSFERABLE, MANUFAGTURER'S WRITTEN WARRANTY, SIGNED BY THE CONTRACTOR AND APPLICATOR, CERTIFYING THE FOLLOWING:

2. EFFECTIVENESS OF THE TREATMENT WILL CONTINUE FOR NOT LESS THAN FIVE YEARS AFTER TREATMENT DATE. 3. ALL EVIDENCE OF TERMITE INFESTATION WITHIN THE WARRANTY PERIOD SHALL BE RE-TREATED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS AND AT NO ADDITIONAL COST

4. DAMAGE TO ALL STRUCTURES CAUSED BY TERMITES WITHIN THE WARRANTY PERIOD WILL BE

SOIL TREATMENTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER AND

CORRECTED WITHOUT COST TO THE OWNER. d. THE CONTRACT FOR SOIL TREATMENT SHALL INCLUDE A MAINTENANCE AGREEMENT THAT PROVIDES FOR INSPECTIONS AND RE-TREATMENTS FOR TWELVE MONTHS FOLLOWING THE DATE OF FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE.

0337. UTILIZE CLASS III CONCRETE FOR ALL INTERIOR PIPE-FILLED STEEL BOLLARDS WHERE INDICATED ON

**DIVISION 4 - MASONRY** 

0400. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES FOR ITEMS WITHIN THIS LIST THAT PERTAIN TO THIS PROJECT a. FACE BRICK UNITS; VENEER SYSTEM

b. CONCRETE MASONRY UNITS

c. STONE MASONRY VENEER SYSTEM d. THIN BRICK VENEER SYSTEM e. SPLIT FACE BLOCK SYSTEM

. MORTARS q. REINFORCEMENT n. TIES . WATER-RESISTIVE BARRIER

FLASHING AND DETAILS . PENETRATION DETAILS I. LINTELS

o. GROUT INJECTION MIX DESIGN

m. WEEP

n. SEALANT

p. CLEANING SOLUTION 0402. ALL MASONRY WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTERS 16 AND

21, OBC, THE AMERICAN CONCRETE INSTITUTE, COMMITTEE 530, THE NATIONAL CONCRETE MASONRY

ASSOCIATION (NCMA) TEK BULLETINS AND THE BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTES. 0403. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

a. DIVISIONS OO AND OI OF THE GENERAL NOTES. b. BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTES I, HOT AND COLD WEATHER CONSTRUCTION

2. 7, WATER PENETRATION RESISTANCE - DESIGN AND DETAILING 3. 7A, WATER PENETRATION RESISTANCE - MATERIALS

4. TB, WATER PENETRATION RESISTANCE - CONSTRUCTION AND WORKMANSHIP 5. 8, MORTARS FOR BRICK WORK 6. IBA, ACCOMMODATING EXPANSION OF BRICK WORK

7. 20, CLEANING BRICK WORK

8. 28, BRICK VENEER/WOOD STUD WALLS

9. 28B, BRICK VENEER/METAL STUD WALLS 10. 28C, THIN BRICK VENEER c. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) TEK MANUALS

I. 3-IC, ALL-MEATHER CONCRETE MASONRY CONSTRUCTION 2. 3-2A, GROUTING CONCRETE MASONRY WALLS 3. 3-8A, CONCRETE MASONRY CONSTRUCTION 4. 5-9A. CONCRETE MASONRY CORNER DETAILS

5. 5-12, MODULAR LAYOUT OF CONCRETE MASONRY 6. 8-2A, REMOVAL OF STAINS FROM CONCRETE MASONRY 7. 8-4A, CLEANING CONCRETE MASONRY

8. 9-IA, MORTARS FOR CONCRETE MASONRY 9. 9-4A, GROUT FOR CONCRETE MASONRY 10. 10-1A, CRACK CONTROL IN CONCRETE MASONRY II. 10-2C, CONTROL JOINTS FOR CONCRETE MASONRY WALLS- EMPIRICAL METHOD

12. 10-3, CONTROL JOINTS FOR CONCRETE MASONRY WALLS- ALTERNATIVE ENGINEERED METHOD 13. 10-4, CRACK CONTROL FOR CONCRETE BRICK AND OTHER CONCRETE MASONRY VENEERS 14. 12-2B, JOINT REINFORCEMENT FOR CONCRETE MASONRY 15. 12-4D, STEEL REINFORGEMENT FOR CONCRETE MASONRY

2. ACI 530.I, SPECIFICATION FOR MASONRY STRUCTURES

16. 18-3B CONCRETE MASONRY INSPECTION

17. 18-8B, GROUT QUALITY ASSURANCE AMERICAN CONCRETE INSTITUTE (ACI) I. ACI 530, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) I. ASTM A240, STANDARD SPECIFICATION FOR CHROMIUM AND CHROMIUM-NICKEL STAINLESS STEEL PLATE, SHEET AND STRIP FOR PRESSURE VESSELS AND GENERAL APPLICATIONS

3. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON-ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS 4. ASTM B370, STANDARD SPECIFICATION FOR COPPER SHEET AND STRIP FOR BUILDING CONSTRUCTION

8. ASTM CI43, TEST METHOD FOR SLUMP OF HYDRAULIC CEMENT CONCRETE

9. ASTM CI44, STANDARD SPECIFICATION FOR MASONRY MORTAR

2. ASTM A951, STANDARD SPECIFICATION FOR MASONRY JOINT REINFORCEMENT

5. ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATES 6. ASTM C90, STANDARD SPECIFICATION FOR LOAD-BEARING CONCRETE MASONRY UNITS 7. ASTM C91, STANDARD SPECIFICATION FOR MASONRY CEMENT

17. ASTM C847. STANDARD SPECIFICATION FOR METAL LATH

MASONRY MASONRY COUNCIL (AWMC), LATEST EDITION.

d. GROUT FILL CORE SOLID WHERE SHOWN ON THE DRAWINGS.

IO. ASTM CI5O, STANDARD SPECIFICATION FOR PORTLAND CEMENT II. ASTM C207, STANDARD SPECIFICATION FOR HYDRATED LIME FOR MASONRY ASTM C270, STANDARD SPECIFICATION FOR MORTAR FOR MASONR 13. ASTM C331, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES FOR CONCRETE

14. ASTM C404. STANDARD SPECIFICATION FOR AGGREGATES FOR MASONRY GROUT 15. ASTM C476, STANDARD SPECIFICATION FOR MASONRY GROUT 16. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE

18. ASTM CIO63, STANDARD SPECIFICATION FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER 19. ASTM CIOSS. STANDARD SPECIFICATION FOR THIN VENEER BRICK UNITS MADE FROM CLAY OR

HYDRAULIC CEMENT CONCRETE 21. ASTM D226, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING 22.ASTM FI667, STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES AND

0404. CONSTRUCTION TOLERANCES FOR CONCRETE UNIT MASONRY SHALL CONFORM TO ACI 530.I.

20.ASTM CI602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF

a. FOR CONSPICUOUS VERTICAL LINES, DO NOT VARY PLUMB MORE THAN 1/8 INCH IN 10 FEET. b. FOR CONSPICUOUS HORIZONTAL LINES, DO NOT VARY PLUMB MORE THAN 1/8 INCH IN 10 FEET.

c. COURSES ARE TO BE LEVEL AND JOINTS UNIFORM IN WIDTH. 0405. ENVIRONMENTAL CONDITIONS. a. COLD WEATHER CONSTRUCTION SHALL CONFORM TO THE "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER CONSTRUCTION" DEVELOPED BY THE ALL WEATHER

 CONCRETE MASONRY UNITS: DURING PERIODS WHEN TEMPERATURES ARE BELOW 40 DEGREES F. NO MASONRY WORK WILL BE PERFORMED UNLESS THE CONTRACTOR PROVIDES THE MEANS AND METHODS APPROVED BY THE AWMC FOR THE PROTECTION OF MATERIALS AND COMPLETED WORK DURING COLD WEATHER OPERATIONS.

b. ALL MASONRY WORK: DO NOT WORK DURING RAIN UNLESS MATERIALS AND WORK CAN BE FULLY

a. LAY UP CONCRETE MASONRY AND SPLIT-FACE UNITS IN RUNNING BOND, ENSURING PLUMB, TRUE TO

LINE AND LEVEL DIMENSIONED AS INDICATED ON THE DRAWINGS. ALL VISIBLE JOINTS SHALL BE

PROTECTED DURING MASONRY OPERATIONS. c. PROTECT THE TOP COURSE OF COMPLETED MASONRY AGAINST WEATHER BY COVERING WITH A STRONG, WEATHERPROOF, NON-STAINING MEMBRANE HELD SECURELY IN PLACE. 0406. MISCELLANEOUS REQUIREMENTS

FORMED WITH A ROUND TOOL OR TO MATCH ADJACENT EXISTING WORK. b. VERTICAL COLLAR JOINTS TO BE FILLED SOLID WITH MORTAR. c. UNLESS OTHERWISE SPECIFIED, PROVIDE 100 PERCENT SOLID BEARING (MINIMUM THREE COURSES) UNDER ALL STRUCTURAL COMPONENTS SUCH AS BEAMS, GIRDERS, LINTELS, ETC.

d.I. IF NOT SHOWN ON THE DRAWINGS, GROUT CORES SOLID AROUND ANCHOR BOLTS AND AT

CHANGE OF MASONRY MYTHES AND WINDOW SILLS. d.2. PROTECT FROM AND IMMEDIATELY CLEAN ALL ADJACENT EXPOSED FACES OF MASONRY OF ANY AND ALL GROUT SPLATTER. e. HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL BE BEDDED IN ALL COURSES OF PIERS AND PILASTERS, IN

THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE FILLED

F. DO NOT SOAK CONCRETE MASONRY UNITS OR BRICK MASONRY UNITS. a. AS MASONRY WORK PROGRESSES, BUILD-IN ITEMS SPECIFIED UNDER THIS AND OTHER SECTIONS OF THE GENERAL NOTES. GROUT FILL SOLID AROUND BUILT-IN ITEMS. 0407, PROVIDE CRACK CONTROL JOINTS IN CONCRETE MASONRY UNIT WALLS AS DETAILED AND WHERE

INDICATED ON THE DRAWINGS. SEE ARTICLE 0415.d.7 FOR ADDITIONAL INFO. IF NOT INDICATED;

WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED.

PROVIDE IN ACCORDANCE WITH NOMA TEK BULLETIN 10-1A. 0408, PROVIDE CRACK CONTROL JOINTS IN FACE BRICK VENEER SYSTEM AS INDICATED. IF NOT INDICATED, PROVIDE IN ACCORDANCE WITH BIA TECHNICAL NOTE ISA.

0409. PROVIDE SOLID MASONRY UNITS OR GROUTED UNITS FOR ALL LINTELS, BEAMS, COLUMNS, JOISTS, PLATES AND ANY OTHER LOAD BEARING MEMBERS.

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> DRAWN BY: NJP, SML STEPHEN LUCHTENBERG 8546 Stephen M. Luchtenber

License No. 8546 Expiration Date: December 31, 2021 **GENERAL NOTES** 

**DIVISION 3** 

**THROUGH** 

**DIVISION 4** 

DRAWING NUMBER

0308. DO NOT CHANGE SOURCE OF READY-MIX DURING THE COURSE OF THE WORK. 0309. PROVIDE CONCRETE PUMPING AS REQUIRED FOR CONSTRUCTABILITY.

b. CONCRETE PORTLAND CEMENT: ASTM C150, TYPE I. 2. FLY ASH IN ACCORDANCE WITH ASTM C618; CLASS C

INCH; FROM ONE SOURCE.

ADMIXTURES SHALL CONTAIN CORROSION INHIBITORS 3. WATER-REDUCING ACCELERATOR: ASTM C494, TYPE E.

5. WATER-REDUCING RETARDING HIGH RANGE ADMIXTURE: ASTM C494, TYPE G.

3. PROVIDE REINFORCING BAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 192 BAR 4. AT SPLICES IN VERTICAL REINFORCING BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR

DIAMETER LAP OF SAME SIZE REINFORCING BAR.

f. STEEL WELDED WIRE FABRIC (WWF): PER ASTM AI85; SIZE AND LOCATION AS INDICATED ON THE

I. BAR AND WELDED WIRE FABRIC SUPPORTS: BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES

WITH CE CRD-C513; SIZE 9 INCHES BY 3/8 INCHES THICKNESS; PROTECT FROM RELEASE AGENTS.

a. COMPLY WITH THE REQUIREMENTS OF ASTM C94 AND ACI 304R. AND DELIVERY TIME FROM I-1/2 HOURS TO 75 MINUTES.

CONCRETE MIXTURE TEMPERATURE OF NOT LESS THAN 50 DEGREES F AND NOT MORE THAN 80 CONTAINING ICE, FROST OR SNOW. DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS. DO NOT USE SET-CONTROL

GAST-IN-PLACE CONCRETE WORK IN COMPLIANCE WITH ACI 347...

3. CYLINDRICAL COLUMNS, PIERS, OTHER SUPPORTS: METAL, CLASS FIBER REINFORCED PLASTIC; DEFORMATION.

TEMPERATURE PROVIDED THE WATER EQUIVALENT OF THE ICE IS CALCULATED IN THE TOTAL AMOUNT OF MIXING WATER.

EIGHT INCHES MAXIMUM AFTER FIELD ADDITION OF THE SUPER PLASTICIZER. e. ADDING WATER TO THE MIX IN ORDER TO CORRECT SLUMP IS PROHIBITED.

e. QUARRY TILE: FLOAT FINISH; CLASS B TOLERANCE. f. NOT USED.

0318. CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED, DETAILED AND AS APPROVED BY THE STRUCTURAL ENGINEER, ALL CONSTRUCTION JOINTS SHALL BE REINFORCED AND KEYWAY.

COMPLETION OF THE WORK.

OWNER'S REPRESENTATIVE. 0329. PROVIDE HYDRAULIC CEMENT-BASED UNDERLAYMENT AS INDICATED ON THE DRAWINGS.

CORROSION RESISTANT PRODUCT AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER; 6. PRIMER: AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE SUBSTRATE

<del>AGENTS, OIL, DUST, DIRT, GREASE AND OTHER CONTAMINATES THAT MAY INTERFERE WITH THE</del> BONDING OF THE UNDERLAYMENT. 2. PERFORM AN ANIMOROUS CALCIUM CHLORIDE TEST IN ACCORDANCE WITH ASTM F 1869.

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL SPECIFICATIONS AND INFORMATION. WHERE THOSE STRUCTURAL

REQUIREMENTS CONFLICT WITH THE SPECS ON THIS SHEET, IN ALL CASES

THE MOST STRINGENT SHALL APPLY.

REQUIREMENTS, INCLUDING TYPE, GRADE, CURING, MOISTURE CONTENT AND PERFORMANCE. 2. PHYSICAL SAMPLES ILLUSTRATING THE TEXTURE AND FULL RANGE OF AVAILABLE COLORS OF

SPECIFIED SPLIT FACE AND GROUND FACE BLOCK. 3. MORTAR SAMPLE KIT SHOWING FULL RANGE OF AVAILABLE PIGMENTED MORTAR COLORS.

DAVIS COLORS, BAYER, DCS OR APPROVED EQUAL. 4. CLEANING MATERIALS THAT ARE NOT HARMFUL TO MASONRY WORK OR ADJACENT MATERIALS.. PROSOCO OR APPROVED EQUAL.

5. STATEMENT ON G.C.'S LETTERHEAD OF MASONRY INSTALLER'S CAPABILITIES. INSTALLER MUST HAVE AT LEAST TEN YEARS EXPERIENCE ON PROJECTS OF SIMILAR SCOPE. INCLUDE LIST OF AT LEAST THREE PROJECTS OF SIMILAR SCOPE COMPLETED IN THE LAST THREE YEARS, ALONG WITH NAMES AND CURRENT CONTACT INFO OF SAID PROJECT'S OWNERS AND

6. ON G.C.'S LETTERHEAD SUBMIT G.C.'S TYPEWRITTEN PLAN FOR HOT AND COLD-WEATHER INSTALLATION OF MASONRY PER ACI 530.1 / ASCE 6 / TMS 602.

b. INSTALL IN STRICT ACCORDANCE WITH ACI STANDARDS 530 AND 530.1 AND WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

I. BEFORE STARTING WORK, BUILD 4'-O" LONG SAMPLE PANEL MOCK UP WITH 16" CORNER RETURN AT ONE END. PANEL TO BE COMPOSED OF ONE COURSE OF SPLIT FACE BLOCK ABOVE ONE COURSE OF GROUND FACE BLOCK ABOVE TWO COURSES OF SPLIT FACE BLOCK, ALL IN MASONRY AND MORTAR COLORS AS SELECTED BY THE ARCHITECT.

I.I. INSTALL HORIZONTAL JOINT REINFORCING EVERY OTHER COURSE

I.2. INSTALL VERTICAL CONTROL JOINT AT MIDPOINT OF 4' LEG. I.3. NSTALL WITH CONCAVE TOOLED JOINTS, ILLUSTRATING MASON'S STANDARD OF

WORKMANSHIP AS A STANDARD FOR THE NEW BUILDING. I.4. SAMPLE PANEL TO BE POSITIONED AND LOCATED WHERE IT'S FACE AND CORNER RETURN WILL RECEIVE FULL SUNLIGHT AND WHERE IT WILL REMAIN UNDAMAGED AND UNALTERED

d. STRUCTURAL SPLIT FACE AND SMOOTH FACE BLOCK MANUFACTURER AND PRODUCT: I. OBERFIELD'S, INC, 8x8x16 'DESIGNBLOK' OR APPROVED EQUAL

I.I. INTEGRAL COLOR PER ASTM C979, AS SELECTED FROM MFR'S STANDARD COLOR GROUP. I.2. UNITS TO BE FABRICATED CONTAINING MFR'S RECOMMENDED AMOUNT OF KRETE INDUSTRY'S 'DRETE HQ PLUS' WATER REPELLENT ADMIXTURE PER ASTM E514 AND NOT EXCEEDING 13 LBS PER CUBIC FOOT.

DURING CONSTRUCTION. VERIFY LOCATION WITH ARCHITECT AND OWNER

c. STRUCTURAL GROUND FACE BLOCK MANUFACTURER AND PRODUCT:

I. ECHELON, TRENWYTH TRENDSTONE SERIES, 8X8XI6 STRUCTURAL STRETCHER AND END UNITS WITH ALL EXPOSED FACES IN 8X8 SCORE PATTERN, OR APPROVED EQUAL I.I. INTEGRAL COLOR AS SELECTED FROM MFR'S COLOR GROUP A, B OR C

I.2. UNITS TO CONTAIN INTEGRAL WATER REPELLENT CMU ADMIXTURE AT TIME OF MANUFACTURING.

I.3. UNITS TO HAVE FACTORY-APPLIED HEAT-TREATED ACRYLIC SEALER FINISH 1.4. ASTM C1262, ASTM C90, 1.5. CLEANING

1.5.1. PROSOCO SURE KLEAN LIGHT DUTY CONCRETE CLEANER. DILUTE PER MFRS 1.5.2. DO NOT POWER WASH OR USE ACID BASED SOLUTIONS FOR CLEANING I.6. AFTER FINAL CLEANING, COAT GROUND FACE UNITS WITH TRENDCOAT TI ACRYLIC

MOISTURE RESISTANT COATING. APPLY PER MIFR'S INSTRUCTIONS.

1. ALL MASONRY UNITS TO BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. 2. UNIT COMPRESSIVE STRENGTH; 1900 PSI PER ASTM C90 3. INSTALL BULLNOSE UNITS AT ALL EXPOSED INTERIOR CORNERS

4. SPLIT FACE AND GROUND FACE ENDS AND CORNER UNITS TO MATCH THE STRETCHER UNIT IN

5. SOLID UNITS: MATCH THE STRETCHER UNIT IN EVERY REGARD, USE AT THE BOTTOM OF DUCT PENETRATIONS.

6. LINTELS: GALV STEEL ANGLES AS SCHEDULED WITH 4" WYTHE MASONRY COURSING AND COPPER FLASHING AS DETAILED.

1. HORIZONTAL REINFORCEMENT: TRUSS TYPE; HOT DIP GALVANIZED; NINE GAUGE DEFORMED WIRE; CONTINUOUS RECTANGULAR TAB TIE; COMPLY WITH ASTM A82; MINIMUM LAP SIX INCHES; SPACED AS INDICATED ON THE DRAWINGS.

8. VERTICAL REINFORCEMENT: SIZE AND LOCATION AS INDICATED ON THE DRAWINGS; COMPLY WITH ASTM A615 GRADE 60; REFER TO DIVISION 05 OF THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 9. CONTROL JOINT STABILIZING ANCHOR; DUR-O-WAL D/A 2200 OR EQUAL. INSTALL EVERY

OTHER COURSE AT EACH VERTICAL MASONRY CONTROL JOINT. SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR CONTROL JOINT LOCATIONS. IO. MORTAR: TYPE N AND S; MINIMUM COMPRESSION STRENGTH OF 18,000 psi; PORTLAND CEMENT AND LIME MIX COMPLYING WITH ASTM CI50 AND ASTM C207; AGGREGATE COMPLYING WITH

ASTM CI44; COLOR AS SELECTED BY ARCHITECT. IO.I. MORTAR SHALL BE MEASURED AND BATCHED EITHER BY VOLUME OR WEIGHT. SHOVEL COUNT MEASUREMENT IS NOT ACCEPTABLE.

IO.2. USE WATER REPELLENT MORTAR ADMIXTURE AS RECOMMENDED BY MFR.

II. POTABLE WATER: FRESH AND FREE OF ACIDS, ALKALIES AND FOREIGN OR ORGANIC

12. MASONRY FLASHING: PROVIDE 1 OZ., BEIGE, SELF-ADHERING COMPOSIT COPPER FABRIC FLASHING WITH INTEGRAL POLYETHELENE FILM ON BOTH SIDES. CUT TO 1 EXPOSED AT EXTERIOR FOR DRIP EDGE. HOHMANN & BARNARD OR EQUAL. INSTALL IN ACCORDANCE WITH S.M.A.C.N.A. DETAILS MANUAL

13. SEALANT: REFER TO DIVISION OT OF THE TECHNICAL SPECIFICATIONS, AND IN ACCORDANCE WITH NCMA TEK BULLETIN 19-6A. 14. CLEANING SOLUTION: AS RECOMMENDED BY THE MANUFACTURER.

e. INSTALLATION I. DELIVER, STORE AND HANDLE MASONRY MATERIALS TO PREVENT DAMAGE AND SOILING. I.I. STORE ON SINGLE STACKED PALLETS ON LEVEL GROUND. PROTECT ALL STORED MATERIALS FROM INCLEMENT WEATHER.

I.2. INSTALLATION OF SOILED AND / OR DAMAGED MATERIALS WILL BE REJECTED. 2. INSTALL IN RUNNING BOND COURSING.

3. MAINTAIN MORTAR BED AND HEAD JOINTS 3/8 INCHES THICK.

3.I. IF MASONRY COURSING IS INSTALLED WITH VARYING HORIZONTAL JOINT THICKNESSES, IT WILL BE REJECTED AND SHALL BE REINSTALLED PROPERLY AT THE CONTRACTOR'S

3.2. STRIKE FLUSH ALL JOINTS FACING PLUMBING CHASES AND FACING FURRED DRYWALL 4. KEEP ALL BLOCK CORES CLEAR AND FREE OF MORTAR CLOGS AND DROPPINGS IN ORDER TO

ALLOW FOR INSTALLATION OF REBAR, GROUT AND LOOSE FILL INSULATION AT EXTERIOR 4.I. INSTALL INSULATION MATERIALS AS WORK PROGRESSES, WITH MAXIMUM 4'-O" HIGH LIFTS.

5. IF NECESSARY, PRECONDITION MASONRY MATERIALS TO MAINTAIN MIN 50 DEGREES

5.I. DO NOT BUILD ON FROZEN WORK. REMOVE AND REPLACE MASONRY WORK DAMAGED BY 5.2. PROTECT COMPLETED MASONRY WORK FROM FREEZING FOR MINIMUM OF FOUR DAYS.

5.3. MAINTAIN MIN 50 DEGREES ON BOTH SIDES OF NEWLY LAID MASONRY FOR NOT LESS THAN 72 HOURS.

6. PROVIDE CONSTRUCTION AND EXPANSION JOINTS AS RECOMMENDED BY THE MANUFACTURER. 7. INSTALL THRU WALL MASONRY FLASHING AT FLOOR LEVEL COURSE, ABOVE ALL MASONRY OPENINGS AND BELOW ALL SILLS PER NOMA TEK BULLETINS 19-4A AND 19-5A DETAILS TO ENSURE WATER RESISTANT MASONRY CONSTRUCTION.

7.I. EXTEND FLASHING BEYOND EDGE OF LINTELS AND SILLS AT LEAST 4" AND TURN UP ENDS TO FORM A PAN. WEAL TOP EDGE OF FLASHING ANCHORED TO BACK UP. CAP FLASHING A MINIMUM OF 4" WITH BUILDING PAPER AT FRAMED WALLS WITH SHEATHING.

7.2. LAP FLASHING JOINTS MIN 2" AND ROLL WITH HAND ROLLER.

7.3. INSTALL WEEPS AT MIN 24" ON CENTER HORIZONTALLY. 8. INSTALL GROUT AND VERTICAL REBAR AS CALLED FOR IN THE DRAWINGS.

9. INSTALL HORIZONTAL JOINT REINFORCING EVERY OTHER COURSE. IO. INSTALL VERTICAL CONTROL JOINTS AS DETAILED AND WHERE NOTED ON EXTERIOR

II. INSTALL LOOSE FILL INSULATION FULL HEIGHT IN EVERY OPEN BLOCK CORE AT ALL PERIMETER EXTERIOR WALLS. PERLITE OR APPROVED EQUAL. II.I. PRIOR TO INSTALLING LOOSE FILL INSTALLATION, CONTRACTOR TO ENSURE ALL WEEP HOLES ARE SCREENED AND ALL CONCEALED PIPES AND CONDUITS, ALL RECESSED

ELECTRICAL ROUGH-IN BOXES, AND ALL VERTICAL REBARS AND GROUT ARE INSTALLED IN THE MASONRY WALL AND ALL OTHER HOLES AND OPENINGS IN THE WALL THROUGH WHICH LOOSE FILL INSULATION CAN ESCAPE ARE PERMANENTLY SEALED OR CAULKED.

II.2. TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THAT INSTALLED LOOSE FILL INSULATION

12. INSTALL REINFORCED AND GROUT FILLED BOND BEAMS AS DETAILED. 13. BRACE UNSUPPORTED AND NEWLY LAID WALLS. MAINTAIN BRACING IN PLACE UNTIL ROOF STRUCTURE PROVIDES PERMANENT BRACING.

14. PREVENT GROUT, MORTAR AND SOIL FROM STAINING THE FACE OF MASONRY THAT IS TO BE LEFT EXPOSED. IMMEDIATELY REMOVE ANY GROUT, MORTAR AND SOIL THAT COMES IN CONTACT WITH MASONRY.

15. PROVIDE WATER TIGHT AND AIR TIGHT SEALED EXTERIOR FACE AT THE COMPLETION OF THE WORK. REFERENCE DIVISION OF OF THE SPECIFICATION FOR ADDITIONAL WATERPROOFING

16. MASON IS RESPONSIBLE TO COORDINATE WITH GC AND OTHER SUB CONTRACTOR'S TO LOCATE, SIZE AND SET ITEMS FURNISHED UNDER OTHER DIVISIONS IN THE TECHNICAL SPECS, INCLUDING BUT NOT LIMITED TO: HOLLOW METAL DOOR FRAMES. GROUT FRAMES SOLID IN ACCORDANCE WITH

MANUFACTURER'S RECOMMENDATIONS. STRUCTURAL STEEL, ANCHOR BOLTS AND EMBEDS. 3. CONCEALED ELECTRICAL CONDUIT IN NON-FURRED WALLS AS COURSING

PROGRESSES WITHOUT FRACTURING EXPOSED SHELLS. 3.I. GRIND AND CUT UNITS AS REQUIRED FOR RECESSED ELECTRICAL SWITCH AND RECEPTACLE BOXES AND SIMILAR ITEMS.

DAMP-CURED FOR AT LEAST 1 DAYS TO PREVENT TOO RAPID DRYING DURING HOT OR DRYING WEATHER AND DRYING WINDS. 0412. AFTER MORTAR IS THOROUGHLY SET AND CURED PER MANUFACTURER'S INSTRUCTIONS, CLEAN EXPOSED CONCRETE MASONRY UNITS AND SPLIT-FACE MASONRY UNITS IN ACCORDANCE WITH NCMA TEK SECTION 8 AND FACE BRICK VENEER IN ACCORDANCE WITH BIA TEK 20.

0411. CURE CONCRETE MASONRY UNITS USING WATER FROM A FOGGING NOZZLE, BUT UNITS SHALL NOT BE

WET TO THE POINT THAT FREE WATER DROPS FROM THE SURFACE. MASONRY WORK SHALL BE

a. PROTECT ADJACENT SURFACES FROM CONTACT WITH ANY CLEANERS. 0413. PROVIDE AND MAINTAIN COVERING MATERIAL OVER ADJACENT ROUGH AND FINISH GRADES IN ORDER TO PROTECT SURFACES THAT ARE TO REMAIN EXPOSED AT THE COMPLETION OF THE WORK

AGAINST STAINING DUE TO SPLASH-UP. 0414. MISCELLANEOUS MASONRY ACCESSORIES.

a. COMPRESSIBLE FILLER STRIPS OF NEOPRENE COMPLYING WITH ASTM D 1056, GRADE 2AI. b. ROUND PLASTIC WEEP/VENT TUBING OF MEDIUM DENSITY POLYETHYLENE, 3/8 INCH O.D. BY 4

c. COTTON OR POLYESTER ROPE WICKING MATERIAL. 1/4 TO 3/8 INCH IN DIAMETER, IN LENGTH REQUIRED TO PRODUCE 2 INCH EXPOSURE ON EXTERIOR AND 18 INCHES IN CAVITY BETWEEN

d. CAVITY DRAINAGE MATERIAL, 3/4 INCH THICK, FREE DRAINING MESH, MADE FROM POLYETHYLENE STRANDS.

I. MANUFACTURERS: I.I. ADVANCED BUILDING PRODUCTS, INC, CAYCLEAR, POLYTITE MANUFACTURING CORP., AFCO PRODUCTS INC. OR APPROVED EQUAL.

0415. PROVIDE GROUT INJECTION WORK AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN a. INSTALL IN STRICT ACCORDANCE WITH AN INDEPENDENT PROFESSIONAL ENGINEER SPECIALIZING IN INJECTION ENGINEERING AND THE MANUFACTURER'S INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

b. MATERIAL: NATURAL HYDRATED LIME IN ACCORDANCE WITH ACTIM 6207. 2. <del>Sand in accordance with astm c144; Clean; not over 10% to pass no. 10 sieve..</del> 3. PORTLAND CEMENT IN ACCORDANCE WITH ACTM CI50; NO AIR ENTRAINMENT.

4. POTABLE WATER FRESH AND FREE OF ACIDS, ALKALIZE AND FOREIGN OR ORGANIC 5. ADMIXTURES. NO MORE THAN 0.5% BY VOLUME.

6. ALL MATERIAL SHALL BE NON-CHLORIDE AND NON-CORROSIVE AND SHALL CONTAIN NO POLYMERS, ACRYLICS OR EPOXIES. MANUFACTURER

I. SELF CONSOLIDATING MASONRY GROUT, SPECMIX, EAGAN, MIN 2. GORE FILL MASONRY GROUT, SPECMIX, EAGAN, MN

3. CORE FILL MASONRY GROUT, AMERIMIX, CHARLOTTE, NO. 4. CORE FILL MASONRY GROUT, AMERICAN DRY MIX, BALTIMORE, MD d. I<del>F PRE-BLENDED MATERIAL IS NOT USED, MIX FORMULATIONS ARE TO BE DESIGNED BY A</del>

PROFESSIONAL ENGINEERING SPECIALIZED IN INJECTION ENGINEERING. e. MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AND IN ACCORDANCE WITH ASTM 6476. f. Material shall be measured and batched either by volume or weight. Shovel count

MEASUREMENT IS NOT ACCEPTABLE. q. <del>Contractor to coordinate and pay for professional engineer who specializes in</del> INJECTION ENGINEERING TO WITNESS PLACEMENT OF GROUT AND PROVIDE REPORT TO ARCHITECT. h. Perform a pre-injection evaluation of the masonry materials condition. Evaluate THE EXTENT AND SIZE OF ANY VISIBLE SURFACE CRACKS, MORTAR BLOCKAGES, MORTAR JOINT

DELAMINATIONS, EXPANSION JOINTS, FLASHINGS, PENETRATIONS, GRACKED OR SPALLED UNITS OR OTHER VIGIBLE SURFACE DAMAGE WHICH MAY HAVE AN EFFECT ON GROUT CONFINEMENT OR THE INJECTION PROCESS. MAKE CORRECTIONS AS REQUIRED BY THE PROFESSIONAL ENGINEER. DETERMINE THE SIZE AND LOCATIONS OF INJECTION AND INSPECTION HOLES DURING THIS

I. DO NOT ALLOW GROUT TO FLOW INTO EXPANSION JOINTS. SEAL AROUND ALL PENETRATIONS, FLASHINGS AND BEAM SEATS TO PREVENT LEAKAGE. PLACE INSPECTION AND INJECTION HOLES OF THE SIZE AND SPACING DETERMINED BY THE

I. PRIOR TO INJECTION, FLUSH ALL INSPECTION AND INJECTION HOLES VERIFYING THE FREE FLOW OF WATER. DRILL NEW HOLES AS REQUIRED TO REPLACE THOSE THAT ARE PARTIALLY OR <del>TOTALLY BLOCKED</del>

k. PRIOR TO INJECTION, LIGHTLY SPRAY THE MASONRY SURFACE TO PREVENT GROUT ADHESION. MAINTAIN A BRUSH AND WATER ON-HAND DURING INJECTION WORK FOR CLEANING SPILLS ON THE MASONRY SURFACE

THE INJECTION OF EACH LIFT SHALL PROCEED IN CONTINUOUS FASHION, WITH NO TIME LAPSES OF MORE THAN THREE MINUTES DURING THE INJECTION OF ANY SINGLE LIFT.

m. QUALITY VERIFICATION . THE PROFESSIONAL ENGINEER IS TO CONDUCT NON-DESTRUCTIVE VERIFICATION OF GROUT PENETRATION UTILIZING PULSE-ECHO, INFRARED THERMOGRAPHY OR THROUGH-WALL PULSE VELOCITY MEASUREMENTS IN A GRID PATTERN WITH MAXIMUM SPACING NOT EXCEEDING EIGHT

2. THE PROFESSIONAL ENGINEER IS TO CONDUCT NON-DESTRUCTIVE VERIFICATION OF GROUT ADJUESION TO THE MASONRY

3. LOCATIONS WHERE GROUT IS NOT PRESENT OVER AN AREA GREATER THAN FOUR INCHES SQUARE SHALL BE RE-INJECTED.

n PERFORMANCE CRITERIA SUBMIT TEST REPORTS FROM AN INDEPENDENT, QUALIFIED LABORATORY FOR THE MIX DESIGN SPECIFIED BY THE PROFESSIONAL ENGINEER OR PRE-BLENDED DESIGN FROM THE <del>MANUFACTURER FOR COMPLIANCE OF PROPERTIES SUITABLE FOR GROUT INJECTION.</del> 2. FLOW TIME: SPECIFIED BY THE PROFESSIONAL ENGINEER, TESTED IN ACCORDANCE WITH API

RECOMMENDED PRACTICE ISB OR ASTM C939. 3. B<del>leeding: Tested in Accordance With Astm C940: No Greater Than 0.5 Percent.</del> 4. MIX STABILITY: MEASURED WITH THE GELMAN PRESSURE CELL; WATER LOSS UNDER 10 pst

PRESSURE SHALL NOT BE MORE THAN I ML PER 350 ML SAMPLED. 5. EXPANSION: RANGE SHALL BE SPECIFIED BY THE PROFESSIONAL ENGINEER; TESTED IN ACCORDANCE WITH ASTM 6940.

6. COMPRESSION STRENGTH: TESTED IN ACCORDANCE WITH ASTM CIOIA 7. FLOW WITHIN A COMPATIBLE MATERIAL: TESTED IN ACCORDANCE WITH MSI IOI. o. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. p. RE-POINT ALL INJECTION AND INSPECTION HOLES AT THE COMPLETION OF INJECTION WORK

UTILIZING MORTAR SIMILAR IN COLOR AND COMPOSITION TO THE ORIGINAL MORTAR, TOOL TO MATCH THE ADJACENT SURFACE. THE PROFESSIONAL ENGINEER IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH INJECTION GROUTING AND SHALL BE ABLE TO PROVIDE DOCUMENTED PROOF OF

r. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF WORK SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS

AT LEAST THREE PROJECTS WHICH THEY PERFORMED DESIGN, WITNESSING AND EVALUATION

0417. PROVIDE FACE BRICK VENEER WORK AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, MORTAR, UNITS, REINFORGEMENT, GLEANING AND ALL OTHER ITEMS AND INCIDENTALS AS

a. INSTALL IN STRICT ACCORDANCE WITH OBG CHAPTER 21, THE MASONRY SOCIETY (TMG), THE AMERICAN CONCRETE INSTITUTE (ACI), THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) AND APPLICABLE BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTES.

b. MATERIAL: I. MODULAR UNITS: ASTM 6216; GRADE SM; APPEARANCE FBS; GROSS AREA COMPRESSIVE STRENGTH MINIMUM 2500 psi MAXIMUM 20 PERGENT FIVE HOUR BOILING ABSORPTION;

MAXIMUM SATURATION COEFFICIENT 0.80; SHAPES AND SIZES AS INDICATED ON THE DRAWINGS. 2. GORRUGATED WALL TIE (WOOD STUD WALL): ASTM AI53, CLASS B; ASTM AIOOB; GALVANIZED; MINIMUM 22 GAUGE; MINIMUM 7/8 INCHES WIDE AND 6 INCHES LONG; INSTALLATION IN ACCORDANCE WITH TMS 602, ACI 503 AND ASCE 6; UNLESS OTHERWISE INDICATED MAXIMUM VERTICAL SPACING 18 INCHES ON CENTER, MAXIMUM HORIZONTAL SPACING 32 INCHES ON

3. WALL TIE (METAL STUD WALL): ASTM AI53, CLASS B-2; HOT-DIPPED GALVANIZED ADJUSTABLE WIRE ANCHOR; MINIMUM WI.7 (4 GAUGE, MWII); UNLESS OTHERWISE INDICATED MAXIMUM VERTICAL SPACING 18 INCHES ON CENTER, MAXIMUM HORIZONTAL SPACING 32 INCHES ON CENTER: 4. MORTAR: ASTM C270; TYPE N; MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 750 PSI;

PROPORTIONS BY VOLUME.

5. PORTLAND CEMENT: ASTM CI5O, TYPE I. 6. MORTAR CEMENT: ASTM C1329 7. HYDRATED LIME: ASTM 6207, TYPE S.

8. AGGREGATE: ASTM C144; CLEAN MASONRY SAND; NOT OVER 10 PERCENT PASSING No. 100

9. WATER: ASTM 61602 AND TESTED IN ACCORDANCE WITH ASTM 61603; POTABLE; FRESH AND FREE OF ACIDS, ALKALIS AND FOREIGN OR ORGANIC MATERIALS.

IO. FLASHING, COPPER: ASTM B370; MINIMUM WEIGHT 12 OUNCES PER SQUARE FOOT II. LINTEL, STEEL: ASTM A36; PRIMED AND PAINTED; SIZE AND THICKNESS AS INDICATED ON THE

12. SILL: MODULAR UNITS, SOLID UNITS ON SILL ENDS, 13. SEALANT: REFERENCE DIVISION OF OF THE TECHNICAL SPECIFICATIONS.

14. CLEANING SOLUTION: AS RECOMMENDED BY THE BRICK MANUFACTURER. . UNITS MANUFACTURER, STYLE AND COLOR: AS SELECTED BY THE OWNER. d. MORTAR MATERIALS SHALL BE MEASURED AND BATCHED EITHER BY VOLUME OR WEIGHT. SHOVEL

COUNT MEASUREMENT IS NOT ACCEPTABLE. e. <del>THE USE OF MORTAR ADMIXTURES IS PROHIBITED.</del> F. BED AND HEAD JOINTS 3/8 INCHES THICK.

q. Store masonry units off the ground, under cover and in a dry location to prevent DETERIORATION OR DAMAGE DUE TO MOISTURE, TEMPERATURE CHANGES, CONTAMINANTS. CORROSION, AND OTHER CAUSES. IF UNITS BECOME WET, DO NOT PLACE UNTIL UNITS ARE IN AN AIR-DRIED CONDITION:

h. <del>ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER.</del> THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF WORK SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS

0418. PROVIDE MANUFACTURED STONE MASONRY VENEER SYSTEM (CULTURED STONE) OVER WOOD FRAMED OVER LIGHT GAUGE METAL FRAMED EXTERIOR WALLS AS INDICATED ON THE DRAWINGS. INCLUDES <del>SUBSTRATE PREPARATION, FLASHINGS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A</del> COMPLETE, WEATHER-TIGHT SYSTEM.

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, DETAILS

b. MANUFACTURER: STONE CRAFT INDUSTRIES, DUTCH CRAFT FOUNDATION STONE. MANUFACTURER: GLEN-GERY LANDMARK; ASHFORD STACKSTONE. d. GOLOR: AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE.

I. FIELD STONE: COMPRESSIVE STRENGTH OF 1,800 psi IN ACCORDANCE WITH ASTM C192 AND ASTM C39; THERMAL RESISTANCE

2. TRIMS SUCH AS CONTINUOUS WATER-TABLE AND RECEPTACLE STONES. 3. MORTAR: TYPE N OR S; COMPLY WITH ASTM 6270; BOND BETWEEN MORTAR AND STONE MINIMUM 50 PSI IN ACCORDANCE WITH ACTM C482.

4. METAL LATH: 2.5 lbs GALYANIZED EXPANDED METAL OR 18 GAUGE WOVEN WIRE MESH OR 3.4 Ibs GALVANIZED EXPANDED RIB LATH.

5. LATH FASTENER FOR WOOD FRAMING: CORROSION RESISTANT NAILS AS RECOMMENDED BY THE CULTURED STONE MANUFACTURER. 6. LATH FASTENER FOR METAL FRAMING: CORROSION RESISTANT SCREWS AS RECOMMENDED B' THE CULTURED STONE MANUFACTURER.

7. FLASHING: TYPE, SIZE AND LOCATION AS RECOMMENDED BY THE CULTURED STONE 8. SEALANT: REFERENCE DIVISION OF FOR SPECIFIC REQUIREMENTS; AS RECOMMENDED BY THE

e. THERMAL RESISTANCE: MINIMUM 0:355 PER INCH OF STONE THICKNESS IN ACCORDANCE WITH ASTM f. Freeze/THAM: IN ACCORDANCE WITH ASTM 661; AFTER 50 CYCLES, NO DISINTEGRATION AND LESS THAN 3 PERCENT WEIGHT LOSS.

g. FLAME SPREAD O, SMOKE DEVELOPMENT O MAXIMUM VENEER UNIT WEIGHT: 15 lbs PER SQUARE FOOT.

PROVIDE EXPANSION JOINTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. FURNISH MANUFACTURER'S STANDARD WRITTEN WARRANTY AGAINST DEFECTS IN MANUFACTURING FOR A MINIMUM PERIOD OF FIFTY (50) YEARS FOLLOWING THE DATE OF SUBSTANTIAL

COMPLETION: ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS

m. PRIOR TO THE COMMENCEMENT OF THE WORK, PROVIDE A MOCK-UP FOR APPROVAL BY THE OWNER'S REPRESENTATIVE AND, IF REQUESTED, THE MANUFACTURER. MOCK-UP IS TO INCLUDE AN INSIDE CORNER. AN OUTSIDE CORNER. WATER-TABLE. AN INTRICATE DETAIL SELECTED BY THE OWNER'S REPRESENTATIVE AND A TERMINATION AT DISSIMILAR MATERIAL. THE MOCK-UP, IF APPROVED MAY BE INCORPORATED IN THE WORK.

0419. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

0420, LAY UP CONCRETE MASONRY UNITS IN RUNNING BOND, ENSURING PLUMB, TRUE TO LINE AND LEVEL DIMENSIONED AS INDICATED ON THE DRAWINGS. ALL VISIBLE JOINTS SHALL BE TOOLED WITH A

ROUND TOOL. a. HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL BE BEDDED IN ALL COURSES OF PIERS AND PILASTERS, IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED.

b. ALL CONCRETE MASONRY UNIT BED AND HEAD JOINTS SHALL BE 3/8" THICK.

c. DO NOT WET CONCRETE MASONRY UNITS. d. AS MASONRY WORK PROGRESSES, BUILD-IN ITEMS SPECIFIED UNDER THIS AND OTHER SECTIONS OF THE TECHNICAL SPECIFICATIONS. GROUT FILL SOLID AROUND BUILT-IN ITEMS.

DIVISION 5 - METALS

0500. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES.

a. STRUCTURAL STEEL, DECKING AND BAR JOISTS b. PRE-ENGINEERED METAL TRUSSES

c. STRUCTURAL METAL STUD FRAMING

d. GROUT e. ANCHOR BOLTS

F. ALL OTHER ITEMS/INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS

0501. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION. a. DIVISIONS OO AND OI OF THE GENERAL NOTES.

> b. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) I. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR

2. AISC 5303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES b. AMERICAN IRON AND STEEL INSTITUTE (AISI)

I. AISI SIOO, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL AISI S200, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL

PROVISIONS 3. AISI 520I, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - PRODUCT DATA 4. AISI S202, CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING

5. AISI S2II, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - WALL STUD 6. AISI 5212, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - HEADER DESIGN

7. AISI S2I3, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - LATERAL 8. AISI 5214, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN

c. AMERICAN WELDING SOCIETY (AWS) AMS A2.4, STANDARD SYMBOLS FOR WELDING, BRAZING AND NONDESTRUCTIVE EXAMINATION

2. AWS DI.I, STRUCTURAL WELDING CODE - STEEL 3. AMS DI.3, STRUCTURAL WELDING CODE - SHEET STEEL

d. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) I. ASTM A36, STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL. 2. ASTM A53, STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC

COATED, WELDED AND SEAMLESS. 3. ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS

4. ASTM AI53, STADARD SPECIFICATION FOR ZINC COATING ON IRON AND STEEL HARDWARE.

5. ASTM A307, STANDARD SPECIFICATION FOR CARBON STEEL BOLTS AND STUDS, 60,000 PSI 6. ASTM A325, STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED,

120/105 KSI MINIMUM TENSILE STRENGTH. 7. ASTM A385, STANDARD PRACTICE FOR PROVIDING HIGH QUALITY ZINC COATINGS (HOT-DIP)

8. ASTM A500, STANDARD SPECIFICATION FOR COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING. 9. ASTM A501, STANDARD SPECIFICATION FOR HOT-FORMED WELDED AND SEAMLESS CARBON

STEEL STRUCTURAL TUBING. IO. ASTM A563, STANDARD SPECIFICATION FOR CARBON AND ALLOY STEEL NUTS. II. ASTM A588, STANDARD SPECIFICATION FOR HIGH STRENGTH LOW ALLOW STRUCTURAL STEEL

WITH 50 KSI MINIMUM YIELD POINT TO FOUR INCHES THICK. 12. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC OR ZINC-IRON ALLOY COATED BY HOT-DIP PROCESS. 13. ASTM A180, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF

HOT-DIP GALVANIZED COATINGS 14. ASTM A792, STANDARD SPECIFICATION FOR STEEL SHEET, 55 PERCENT ALUMINUM-ZINC ALLOY COATED BY HOT-DIP PROCESS 15. ASTM AIOO3, STANDARD SPECIFICATION FOR STEEL SHEET, CARBON, METALLIC-COATED AND

ASTM Aloob, STANDARD SPECIFICATION FOR STEEL, SHEET, COLD-ROLLED, CARBON, STRUCTURAL, HIGH-STRENGTH LOW-ALLOY, HIGH-STRENGTH LOW-ALLOY WITH IMPROVED FORMABILITY, SOLUTION HARDENED AND BAKE HARDENABLE

NON-METALLIC-COATED FOR COLD-FORMED FRAMING MEMBERS

17. ASTM B211, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY ROLLED OR COLD FINISHED BAR, ROD AND WIRE 18. ASTM B221, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY EXTRUDED BARS, RODS, WIRE, PROFILES AND TUBES

19. ASTM B247, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY DIE FORGINGS,

HAND FORGINGS AND ROLLED RING FORGINGS 20.ASTM B429, STANDARD SPECIFICATION FOR ALUMINUM-ALLOY EXTRUDED STRUCTURAL PIPE 21. ASTM C455, STANDARD SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL) STEEL

PANEL PRODUCTS AND METAL PLASTER BASES 22.ASTM CIOOT, STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND RELATED ACCESSORIES 23. ASTM CIIO7, STANDARD SPECIFICATION FOR PACKAGED DRY, HYDRAULIC-CEMENT GROUT

STUD. RUNNERS (TRACKS) AND BRACING OR BRIDGING FOR SCREW APPLICATION OF GYPSUM

24. ASTM CI513, STANDARD SPECIFICATION FOR STEEL TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTIONS 25. ASTM D2244. STANDARD PRACTICE FOR CALCULATION OF COLOR TOLERANCES AND COLOR

DIFFERENCES FROM INSTRUMENTALLY MEASURED COLOR COORDINATES. 26, ASTM D2247, STANDARD PRACTICE FOR TESTING WATER RESISTANCE OF COATINGS IN IOO PERCENT RELATIVE HUMIDITY. 21. ASTM D2794, STANDARD TEST METHOD FOR RESISTANCE OF ORGANIC COATINGS TO THE

EFFECTS OF RAPID DEFORMATION (IMPACT). 28.ASTM D336I, STANDARD PRACTICE FOR UNFILTERED OPEN-FLAME CARBON-ARC EXPOSURES OF PAINT AND RELATED COATINGS. 29. ASTM D4214, STANDARD TEST METHODS FOR EVALUATING THE DEGREE OF CHALKING OF

EXTERIOR PAINT FILMS. 30.ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING 31. ASTM E96, STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS.

32. ASTM EI592, STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF SHEET METAL

ROOF AND SIDING SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE. 33. ASTM F436. STANDARD SPECIFICATION FOR HARDENED STEEL WASHERS. 34. ASTM F468, STANDARD SPECIFICATION FOR NONFERROUS BOLTS, HEX CAP SCREWS, SOCKET

HEAD CAP SCREWS AND STUDS FOR GENERAL USE 35. ASTM F593, STANDARD SPECIFICATION FOR STAINLESS STEEL BOLTS, HEX CAP SCREWS AND 36.ASTM FI554, STANDARD SPECIFICATION FOR ANCHOR BOLTS, STEEL, 36, 55, AND 105-KSI YIELD

37. ASTM F2329, STANDARD SPECIFICATION FOR ZINC COATING, HOT DIP, REQUIREMENTS FOR APPLICATION TO CARBON AND ALLOY STEEL BOLTS, SCREWS, WASHERS, NUTS AND SPECIAL THREADED FASTENERS 38. ASTM 687, STANDARD PRACTICE FOR CONDUCTING MOIST 502 TESTS.

I. FM STANDARD 447I, APPROVED STANDARD FOR CLASS I ROOFS FOR HAIL DAMAGE RESISTANCE, COMBUSTIBILITY AND WIND UPLIFT RESISTANCE 2. FM DS I-28R, DATA SHEET: ROOF SYSTEMS

F. NATIONAL ASSOCIATION OF METAL MANUFACTURERS (NAMM) I. NAMM AMP 500, METAL FINISHES MANUAL

2. NAMM AMP 521, PIPE RAILING SYSTEMS MANUAL 3. NAMM AMP 555, CODE OF STANDARD PRACTICE FOR THE ARCHITECTURAL METAL INDUSTRY

a. SOCIETY FOR PROTECTIVE COATINGS (SSPC) SSPC-SPI, SOLVENT CLEANING 2. SSPC-SP3, POWER TOOL CLEANING 3. SSPC-SP6, COMMERCIAL BLAST CLEANING

4. SSPC-SPIO, NEAR WHITE BLAST CLEANING

e. FM GLOBAL (FM)

5. SSPC-PAI, SHOP, FIELD AND MAINTENANCE PAINTING 6. SSPC PAINT 20, ZINC-RICH PRIMERS (TYPE I INORGANIC, TYPE II ORGANIC) 7. SSPC TECHNOLOGY GUIDE NO. 14, GUIDE FOR THE REPAIR OF IMPERFECTIONS IN GALVANIZED OR INORGANIC ZINC-COATED STEEL USING ORGANIC ZINC-RICH COATING

8. SSPC PAINT SYSTEM GUIDE NO. 12.00, GUIDE TO ZING-RICH COATING SYSTEMS h. UNDERWRITERS LABORATORIES I. UL 209, STANDARD FOR SAFETY CELLULAR METAL FLOOR RACEWAYS AND FITTINGS 2. UL 580, STANDARD FOR TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES.

3. UL 723, STANDARD FOR TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING

I. RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) I. SPECIFICATION FOR STRUCTURAL JOINTS AND LOAD AND RESISTANCE FACTOR DESIGN . STEEL DECK INSTITUTE (SDI)

. SDI C, STANDARD FOR COMPOSITE STEEL FLOOR DECK - SLABS 2. SDI NC, STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK 3. SDI RD, STANDARD FOR STEEL ROOF DECK 4. SDI DDMO3, DIAPHRAGM DESIGN MANUAL

5. SDI MOC2, MANUAL OF CONSTRUCTION WITH STEEL DECK k. AMERICAN NATIONAL STANDARD SPECIFICATIONS (ANSI) ANSI AI264.I, SAFETY REQUIREMENTS FOR WORKPLACE FLOOR AND WALL OPENINGS, STAIRS AND RAILING SYSTEMS.

0502. STRUCTURAL STEEL AND METAL FABRICATION SHALL COMPLY WITH THE REQUIREMENTS OF

OBC CHAPTERS 16 AND 22.

0503. PROVIDE STRUCTURAL STEEL FRAMING AND METAL FABRICATIONS AS SHOWN DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES SOME OR ALL OF THE FOLLOWING: BEAMS, TUBING, BAR JOISTS, ANGLES, PLATES, WEB STIFFENERS, GAS METER MOUNT, CLIPS, FASTENERS, ANCHOR BOLTS, GROUTING AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. REFERENCE THE STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.

0504. SHOP PAINT ALL STRUCTURAL STEEL CONFORMING TO STEEL STRUCTURES PAINTING COUNCIL SPECIFICATIONS. REFERENCE DIVISION OF OF THE TECHNICAL SPECIFICATIONS FOR SPECIFIC

a. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE. b. STRUCTURAL STEEL SHAPES ARE TO RECEIVE TWO (2) COATS OF SHOP PAINT.

d. GALVANIZING REPAIR PAINT TO BE ZINC RICH PRIMER PAINT. e. GALVANIZED FINISHES:

I. ASTM A153 FOR GALVANIZING IRON AND STEEL HARDWARE.

AND STRIPS I/8 INCH THICK AND HEAVIER.

0505. PROVIDE COLD-FORMED STRUCTURAL METAL FRAMING SYSTEM AS INDICATED ON THE DRAWINGS: INCLUDES TWENTY GAUGE STUDS AND TRACK, PRE-ENGINEERED ROOF TRUSSES, BRACING CHANNELS; CLIPS, FURRING, FASTENERS AND ALL OTHER INCIDENTALS AS REQUIRED

2. ASTM AI23 FOR GALVANIZING ROLLED, PRESSED AND FORGED STEEL SHAPES, PLATES, BARS

- I. STEEL STUDS: ASTM AIOO3, STRUCTURAL GRADE 33 AND/OR 50, TYPE II MINIMUM BASE METAL <del>THICKNESS, FLANCE WIDTH AND WEB DEPTH AS INDICATED ON THE DRAWINGS; PUNCHED OR THE DRAWINGS; PUNCHED OR THE DRAWINGS; PUNCHED OR THE DRAWINGS; PUNCHED OR</del>

<del>- Un punched, coating 660 or 690, 690 required at face brick veneer assemblies.</del>

<del>----2, RUNNER (TRACK): ASTM A653, ASTM A1003; GRADE, MINIMUM BASE METAL THICKNESS, FLANGE</del> —— <del>Width and web depth as indicated on the drawings, un-punched, coating 660 or 690.</del> 3. STEEL "Z" FURRING: ASTM AIOO3, STRUCTURAL GRADE 33, TYPE II MINIMUM BASE METAL THICKNESS, FLANGE WIDTH AND WEB DEPTH AS INDICATED ON THE DRAWINGS, COATING G60

4. PONDER-ACTUATED FASTENER: CORROSION RESISTANT; LOAD CAPACITY IN ACCORDANCE - WITH ICC-ES AC 70.

5. SCREW FASTENERS: ASTM CISIS; CORROSION RESISTANT; SELF-DRILLING, SELF-TAPPING; - ELECTROPLATED TO A MINIMUM OF 5 MICRONS ZINC COATING IN ACCORDANCE WITH ASTM - FI94I OR HOT DIP GALVANIZED IN ACCORDANCE WITH ACTM A123 OR ACTM A153.

0506. ALL STRUCTURAL STEEL ITEMS AND THEIR CONNECTIONS, INCLUDING WELDS, PERMANENTLY EXPOSED TO EXTERIOR CONDITIONS OR THAT ARE WITHIN AREAS OF UNCONDITIONED AIRSPACE, WHETHER OR NOT INDICATED ON THE DRAWINGS, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. REFER TO DIVISION OF OF THE THE TECHNICAL SPECIFICATIONS FOR THOSE ITEMS SPECIFIED TO RECEIVE PRIMER AND FINISH COAT.

a. SURFACE PREPARATION I. IN COMPLIANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL (SSPC), VOLUME 2, LATEST

2. REMOVE ALL GREASE, OIL, GRIME, ETC. BY CLEANING WITH AN ALKALINE SOLVENT. RINGE

THOROUGHLY WITH COLD WATER. 3. REMOVE SCALING EITHER BY PICKLING IN DILUTED SULFURIC OR HYDROCHLORIC ACID OR WHITE METAL BLAST CLEANING IN ACCORDANCE WITH SSPC-SP-5.

4. DIP IN FLUX SOLUTION OF ZINC AMMONIA CHLORIDE AND DRY BY ROOM TEMPERATURE. b. ZINC COATING

I. IN ACCORDANCE WITH ASTM A 123. 2. WEIGHT PER SQUARE FOOT OF SURFACE FOR 1/8 INCH AND 3/16 INCH THICK STEELS SHALL AVERAGE NOT LESS THAN 2.0 OZ. 3. WEIGHT PER SQUARE FOOT OF SURFACE AREA FOR 1/4 INCH AND THICKER SHALL AVERAGE

NOT LESS THAN 2.3 OZ. c. REPAIR PAINT: "ZRC COLD GALVANIZING COMPOUND" BY ZRC CHEMICAL PRODUCTS OR APPROVED EQUAL COMPLYING WITH SSPC-PAINT 20.

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. b. MATERIAL

. P<del>rovide Galvanized Metal Decking as Indicated on the Structural Dramings.</del>

 I. ROOF DECK: ASTM AIOOS; THICKNESS AND DEPTH AS INDICATED ON THE DRAWINGS; 2. TOUCH-UP PAINT: ASTM A780; HIGH ZINC DUST CONTENT.

- 3. CLOSURE STRIPS 4. GALVANIZED STEEL ANGLES: ASTM A36, ASTM A123

0508. GROUND AND BOND STEEL COMPONENTS IN ACCORDANCE WITH NFPA 70. 0509. PROVIDE STEEL COLUMN PLATE GROUTING AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN.

 PRE-MIXED; NON-METALLIC; NON-SHRINK; NON-CORROSIVE; NON-STAINING; CONTAINING PORTLAND CEMENTS, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS.

2. IN COMPLIANCE WITH ASTM CITOT. 3. STRENGTH: AS SPECIFIED BY THE STRUCTURAL ENGINEER.

0510. HIGH-STRENGTH BOLTS: REFERENCE STRUCTURAL DRAWINGS.

a. 1/2 INCH DIAMETER BOLTS: 3-1/2 INCHES EMBEDMENT.

0511. PROVIDE ANCHOR BOLTS: ASTM A36 OR ASTM A307; REFERENCE STRUCTURAL DRAWINGS FOR TYPES, SIZES AND LOCATIONS. a. EXPANSION BOLTS: HILTI "KWIK-BOLTS" OR APPROVED EQUAL.

b. PROVIDE HEAVY NUT AND WASHER AT ALL ANCHOR BOLTS (BOTH ENDS WHERE INDICATED). 0512. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS INDICATED ON THE DRAWINGS, AND IF NOT INDICATED, AS FOLLOWS:

b. 3/4 INCH DIAMETER BOLTS: 5 INCHES EMBEDMENT. 0513. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) STANDARDS AND REQUIREMENTS.

a. ELECTRODES: ASTM A233, SERIES E60 OR E70, STRUCTURAL WELDING CODE OF THE AWS.

b. ALL WELDING SHALL BE DONE WITH CARE SO AS NOT TO IMPAIR ANY OF THE STRUCTURE.

0514. WELD WITNESSING AND TESTING SHALL BE COORD BY AND PAID FOR BY THE CONTRACTOR, UTILIZING AN INDEPENDENT TESTING AGENCY THAT IS APPROVED BY THE OWNER. PROVIDE TEST REPORT TO 0515. ANY METAL HANGERS, CONNECTORS, CLIPS, STRAPS, ANCHORS, BOLTS, FASTENERS, SCREWS, ETC. IN DIRECT CONTACT WITH ANY PERSERVATIVELY TREATED LUMBER SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316, OR "DOUBLE DIPPED" GALVANIZED THAT COMPLIES WITH THE ASTM A123

CONNECTORS AND FASTENERS MUST BE MADE OF THE SAME MATERIAL FOR COMPATIBILITY. 0516. PROVIDE STEEL BOLLARD POSTS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN:

COLOR AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE.

2. EXACT HEIGHTS TO BE FIELD DETERMINED BY THE CONTRACTOR.

I. BOLLARD: FOUR (4) AND/OR SIX (6) INCHES OUTSIDE DIAMETER; STEEL PIPE PER ASTM A53; ZINC COATING GALVANIZED PER ASTM AI23; SET IN CONCRETE POST HOLE FOOTING WITH GALVANIZED STEEL SLEEVE, MINIMUM 36 INCHES DEEP, TEN (10) INCHES DIAMETER:

2. FIELD APPLIED PAINT FINISH; REFERENCE DIVISION 09 OF THE TECHNICAL SPECIFICATIONS;

(CONNECTORS) OR AI53 (FASTENERS) CLASS "D" STANDARDS FOR FASTENERS AND HARDWARE. THE

3. POLYVINYLGILORIDE (PVC) SLEEVE COVER WITH REFLECTIVE BAND: COLOR AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. 0517. ROVIDE NON-LOAD-BEARING, ORNAMENTAL, FACTORY FABRICATED ALUMINUM COLUMNS AS

UPLIFT BRACKETS, CLIPS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. a. <del>COLUMNS SHALL BE CAPABLE OF SUPPORTING AND WITHSTANDING THE REQUIRED LIVE AND DEAD</del> LOADS AND THE WIND UP-LIFT LOADS AS REQUIRED BY THE OBC.

INDICATED ON THE DRAWINGS. INCLUDE BASE, CAPITAL, INSTALLATION PLATES, FASTENERS, WIND

 THICKNESS: AS REQUIRED FOR STRUCTURAL LOADS AND NON-STRUCTURAL LOADS. STYLE: SQUARE PANEL WITH SAVANNAH BASE AND DORIG CAPITAL d. F<del>INISH: FACTORY BAKED-ON POWDER COAT, COLOR AS SELECTED BY THE OWNER OR OWNER'S</del> REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE.

e. MANUFACTURER: SUPERIOR ALUMINUM PRODUCTS. 0518. PROVIDE STAIR AND RAMP HANDRAIL AND CUARDRAIL ASSEMBLIES AS INDICATED ON THE a. MATERIAL

DIAMETER: DESIGNED AND INSTALLED IN ACCORDANCE WITH ICC AH7.1-2009; PRIME PAINTED: 2. <del>MOUNTING FLANGES.</del> 4. FIELD APPLIED PAINT FINISH COLOR AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE:

0519. PROVIDE STRUCTURAL STEEL COLUMN PLATE GROUTING AS INDICATED ON THE STRUCTURAL

I. PIPE: WELDED; ZING GOATING GALVANIZED STEEL PER ASTM A 123; I-1/2 INCHES OUTSIDE

a. MATERIAL REFER TO ARTICLE 0415 OF THE GENERAL NOTES.

DRAWINGS AND ARTICLE 0415 OF THE GENERAL NOTES.

b. MATERIAL: ASTM B209, EXTRUDED 6063 ALUMINUM ALLOY.

TWELVE (12) INCHES SQUARE.

e. <del>SIZES:</del>

2. COMPLY WITH ASTM CIIOT. 3. STRENGTH: AS SPECIFIED BY THE STRUCTURAL ENGINEER.

 S

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**GENERAL NOTES DIVISION 4 THROUGH** 

DIVISION 5

Expiration Date: December 31, 2021

a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

0602. CONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS, FOR THE MANUFACTURING, TESTING, ERECTING AND INSTALLATION OF ROUGH FRAMING

a. THE ENGINEERED WOOD ASSOCIATION (APA) REQUIREMENTS. b. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) REQUIREMENTS.

c. AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) REQUIREMENTS.

d. ARCHITECTURAL WOODWORK INSTITUTE (AWI) REQUIREMENTS. e. NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) REQUIREMENTS.

F. NATIONAL LUMBER GRADES AUTHORITY (NLGA) REQUIREMENTS. g. UNDERWRITERS LABORATORIES, INC. (UL) REQUIREMENTS. h. U. S. PRODUCTS STANDARDS (PS) REQUIREMENTS.

MANUFACTURED IN ACCORDANCE WITH U.S. DEPARTMENT OF COMMERCE, PRODUCT STANDARD

b. NOMINAL LUMBER SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE DRESSED SEASONED DIMENSIONED LUMBER, S45, KILN-DRIED TO A MAXIMUM FIFTEEN

PERCENT (15%) MOISTURE CONTENT (MCI5 OR KD). d. EACH PIECE FACTORY GRADE-MARKED BY AN AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) THAT INDICATES, AT A MINIMUM:

. GRADING AGENCY 2. GRADE, SPECIES

MOISTURE CONTENT

e. LIGHT FRAMING (BLOCKING, NAILERS, GROUNDS, FURRING AND SIMILAR MEMBERS) 2 TO 4 INCHES THICK; 5 INCHES AND WIDER:

CONSTRUCTION GRADE. 3. Fb - 1,000 psi FOR SINGLE MEMBER USE, 1,150 psi FOR REPETITIVE MEMBER USE, E OF

1,300,000 psi STRUCTURAL FRAMING (WALL STUD FRAMING) 2 TO 4 INCHES THICK, 5 INCHES WIDER:

I. WESTERN DIMENSION LUMBER: SPRUCE-PINE-FIR (SPF) SPECIES

I. WESTERN DIMENSION LUMBER: DOUGLAS-FIR-LARCH (DFL) SPECIES 2. No. I OR BETTER GRADE. 3. Fb = 1,200 psi FOR SINGLE MEMBER USE, 1,350 psi FOR REPETITIVE MEMBER USE, E OF

1,800,000 psi. STRUCTURAL FRAMING (STRUCTURAL JOISTS, HEADERS, ETC.) 2 TO 4 INCHES THICK, 8 INCHES AND

SOUTHERN FOREST PRODUCTS ASSOCIATION: SOUTHERN-YELLOW-PINE (SYP) SPECIES

3. Fb OF 1,250 psi FOR SINGLE MEMBER USE, 1,400 psi FOR REPETITIVE MEMBER USE, AND E OF 1,600,000 psi.

STRUCTURAL FRAMING (POSTS AND TIMBERS): WESTERN DIMENSION LUMBER: DOUGLAS-FIR-LARCH (DFL) SPECIES

3. Fb = 1,200 psi FOR SINGLE MEMBER USE, 1,350 psi FOR REPETITIVE MEMBER USE, Fc - 1,000 psi, E OF 1,600,000 psi

### 0604. FIRE-RETARDANT TREATED (FRT) WOOD

a. LUMBER AND PLYWOOD HAVING FIRE-RETARDANT TREATMENT SHALL HAVE A FLAME SPREAD —— TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS."

b. LUMBER AND PLYWOOD HAVING FIRE-RETARDANT TREATMENT SHALL BE FACTORY I. GRADING AGENCY

2. WOOD SPECIES

3. YEAR OF TREATMENT 4. FIRE-RETARDANT TREATMENT USED

5. TREATING COMPANY AND LOCATION 6. KILN DRY AFTER TREATMENT (KDAT)

- 1. SIZE AND LENGTH. c. KILN DRIED AFTER TREATMENT

- I. LUMBER: MAXIMUM MOISTURE CONTENT OF NINETEEN PERCENT (19%) 2. PLYWOOD: MAXIMUM MOISTURE CONTENT FIFTEEN PERCENT (15%)

d. F<del>ire retardant treated wood used in structural applications shall be installed in</del> <del>-Accordance with the conditions and limitations listed in ESR-1791 as issued by the Icc</del>

- I. CUTS AND BORED AREAS: TREAT TO CONFORM WITH THE REQUIREMENTS OF THE AMERICAN

<del>e. Fasteners must de galvanized steel, stainless steel, silicon bronze or copper, in</del>

### ACCORDANCE WITH OBC SECTION 2304.10.5.

a. EACH PIECE FACTORY GRADE-MARKED BY AN AGENCY ACCREDITED BY THE AMERICAN LUMBER

### 0605. PRESERVATIVE TREATED (PT) WOOD

STANDARD COMMITTEE (ALSC) THAT INDICATES, AT A MINIMUM:

GRADING AGENCY AMPA USE CATEGORY

3. YEAR OF TREATMENT 4. PRESERVATIVE USED

5. PRESERVATIVE RETENTION

6. EXPOSURE CATEGORY I. TREATING COMPANY AND LOCATION

8. DRY OR KDAT 9. SIZE AND LENGTH.

. PRESERVATIVE CLASSIFICATION: I. WATERBORNE, NON-COPPER BASED

2. INORGANIC BORON (SBX)

3. IN COMPLIANCE WITH AWPA PRESERVATIVE STANDARDS C2, M4, P5, P25 OR C9-TO

4. IN COMPLIANCE WITH AWPA USE CATEGORY STANDARDS UI AND TI 5. SHALL NOT EXCEED THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S TOXIC

CHARACTERISTIC LEACHING PROCEDURE (TLCP).

c. SPECIES: CMC SOUTHERN YELLOW PINE GRADE No. 1 / No. 2, BENDING (Fb) MINIMUM 1,200 psi,

DRESSED 545.

I. KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF NINETEEN PERCENT (19%) 2. AMPA USE CATEGORY: 2, ABOVE GROUND, INTERIOR DAMP

MINIMUM PRESERVATIVE RETENTION: O.17 pcf d. CUTS AND BORED AREAS TREATED IN COMPLIANCE WITH AMPA STANDARD M4; BRUSH COAT

WITH A COPPER NAPHTHENATE SOLUTION. e. USE WHERE LUMBER IS IN CONTACT WITH EARTH, CONCRETE AND/OR CONCRETE MASONRY IN

ACCORDANCE OBC SECTION 2304.II. FASTENERS MUST BE GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER, IN

### 0606. CONSTRUCTION PANELS / PLYWOOD a. WHEN REQUIRED, SUB-FLOORING: APA RATED SHEATHING, SPAN RATING 32/16, TONGUE AND

GROOVE, EXTERIOR GLUE, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON 

b. WHEN REQUIRED, UNDERLAYMENT: APA UNDERLAYMENT INT WITH EXTERIOR GLUE OR APA

UNDERLAYMENT CC PLUCCED EXT, SQUARE EDGE, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON DRAWINGS. . INSTALL IN ACCORDANCE WITH U.L. DESIGN FIRE RESISTANCE RATING DETAILS AS SHOWN ON

ACCORDANCE WITH OBC SECTION 2304.10.5.

c. When required, roof sheathing: Apa structural | & || rated sheathing ext, span rating AS REQUIRED, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON DRAWINGS. OSB IS NOT ACCEPTABLE FOR ROOF SHEATHING.

d. WALL SHEATHING AND SEISMIC DIAPHRAGM BRACING: APA RATED SHEATHING EXT, SPAN RATING 32/16, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON DRAWINGS.

e. ELECTRICAL AND TELEPHONE EQUIPMENT BACKING PANELS: APA AC EXT, FIRE RETARDANT TREATED (FRTW) PLYWOOD, 3/4 INCHES MINIMUM THICKNESS.

WHEN REQUIRED, PRESERVATIVE TREATED (P.T.) PLYWOOD: APA STRUCTURAL I & II RATED

SHEATHING APA SOUTHERN PINE CDX, CCA TREATED, 0.60 lb. PER CU. FT. DRY CHEMICAL RETENTION. FURNISH THE FOLLOWING: UC2-INTERIOR DAMP; UC3B-ABOVE GROUND EXPOSED; UC4A-GROUND/EARTH CONTACT GENERAL USE; UC4B-GROUND/EARTH CONTACT HEAVY DUTY; UC4C-GROUND/EARTH CONTACT EXTREME DUTY.

EXCEPT WHEN PLYWOOD PANELS ARE SPECIFIED, CONSTRUCTION PANELS INCLUDING ORIENTED <del>STRAND BOARD (OSB), AND COMPOSITE STRUCTURAL PANELS, (COM-PLY) MEETING APA PRP-108</del> PERFORMANCE STANDARDS WILL BE ACCEPTABLE FOR CONSTRUCTION PANELS. REFERENCE STRUCTURAL DRAWINGS.

WHEN REQUIRED, UNDERLAYMENT BOARD: INSTALL "RECOVERY BOARD" FOR MEMBRANE ROOFING IN ACCORDANCE WITH ROOFING MANUFACTURER'S PUBLISHED SPECIFICATIONS AND DETAILS. FURNISH UNDERLAYMENT BOARD OF HIGH DENSITY WOOD FIBERBOARD WITH ASPHALT COATED FACING, 1/2 INCHES THICK IN MANUFACTURER'S STANDARD PANEL SIZES: I. COMPRESSIVE STRENGTH: 32 psi.

2. DENSITY: 15.5 PCF. 3. R VALUE: 1.23

0607. ENGINEERED WOOD PRODUCTS

TRUS-JOIST McMILLIAN CORP. "MICRO=LAM" LAMINATED VENEER LUMBER (LVL) BEAMS, HEADERS, ETC. OR APPROVED EQUAL. FURNISH DIMENSIONS AND SIZES INDICATED.

FURNISH DOUGLAS FIR VENEER LUMBER GLUED IN A CONTINUOUS PROCESS WITH ALL GRAIN <del>PARALLEL WITH LENGTH OF MEMBER. BEAMS SHALL BE SINGLE ONE-PIEGE LENGTH, FREE OF</del> <del>FINGER JOINTS, SCARF JOINTS OR BEAMS SHALL BE SINGLE ONE-PIEGE LENGTH, FREE OF</del> FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS IN FULL LENGTH OF MEMBERS. --- FURNISH DESIGN STRESSES AS FOLLOWS:

1. EXTREME FIBER STRESS IN BENDING (Fb): 2,900 psi (FOR 12 INCHES DEEP MEMBERS).

2. MODULUS OF ELASTICITY (E): 2,000,000 psi. 3. TENSION PARALLEL TO GRAIN (Ft): 1,850 psi.

4. COMPRESSION PARALLEL TO GRAIN (Fc): 2,900 psi. 5. COMPRESSION PERPENDICULAR TO GRAIN: 880 psi PERPENDICULAR AND PARALLEL TO-

6. HORIZONTAL SHEAR (Fv): 290 psi PERPENDICULAR AND PARALLEL TO GLUE LINE. c. TRUS-JOIST McMILLIAN CORP, PREFABRICATED WOOD "I" JOISTS (TJI) OR APPROVED EQUAL, FURNISH DIMENSIONS AND SIZES INDIGATED WITH FLANGES NOT LESS THAN 1-1/2 INCHES WIDE: FURNISH UNITS MANUFACTURED BY BONDING STRESS-GRADED LUMBER FLANGES TO APA-PERFORMANCE-RATED PANEL WEBS WITH EXTERIOR-TYPE ADHESIVES COMPLYING WITH

ASTM D2559, TO PRODUCE "I" SHAPED JOISTS COMPLYING WITH THE FOLLOWING REQUIREMENTS: - I. FLANGE MATERIAL: JOIST MANUFACTURER'S STANDARD.

2. WEB MATERIAL: JOIST MANUFACTURER'S STANDARD. 3. ALLOWABLE DESIGN STRESSES: AS PUBLISHED BY THE MANUFACTURER, DETERMINED - ACCORDING TO ACTIM D5055, AND DEMONSTRATED BY COMPREHENSIVE TESTING

PERFORMED BY QUALIFIED INDEPENDENT TESTING LABORATORY.

d. ADHESIVES TO BE ASTM D2559 WATERPROOF TYPE.

e. LAMINATED DECKING AT GLULAM TRUSSES FOUR PLY, 2 1/8" x 7", CENTER TONGUE AND VEE-GROOVE ON BOTH EDGES AND ENDS FOR CENTER MATCHING AND END MATCHING FLUSH ENDS AT EAVES AND RIDGE.

2. SOUTHERN PINE (WHTH SUPPRÉMÉ CLEÁR FACE, DECORÁTIVE GRÁDE, SMOOTH SURFACED.

3. 10% TO 15% MOISTURE CONTENT 4. 100% WATERPROOF ADHESIVE, PER ASTM D2559. CURE UNDER PRESSURE USING HIGH

FREQUENCY ELECTRONICS IN RADIO FREQUENCY PRESS. 5. MANUFACTURING PROCESS TO MEET ASTM/AITC A 190.1 6. PROVIDE FACTORY APPLIED FINISH, OVEN DRIED, ACRYLIC SEMI-TRANSPARENT COLOR AS

SELECTED FROM MFR'S STANDARD RANGE. 7. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

8. PRODUCT: LOCK DECK OR APPROVED EQUAL. EXPOSED GLULAM ROOF TRUSS AND EAVE MEMBERS

PRESSURE TREATED SOUTHERN PINE, 24F-V5 OR DOUGLAS-FIR / HEM-FIR 24F-VIO. 2. SUBMIT SHOP DRAWINGS ILLUSTRATING PROPOSED FABRICATION OF TRUSSES, CONNECTOR

PLATES, BOLTS, ETC AS SHOWN ON THE DRAWINGS. 3. FIELD MEASURE ALL AS-BUILT CONDITIONS AT EACH TRUSS LOCATION PRIOR TO

FABRICATION. 4. FACTORY APPLIED PRESSURE TREATING

4.I. AIR BORNE, TWO COMPONENT, MINERAL SPIRITS-BASED, COLORLESS, HIGH DECAY RESISTANT, TERMITE RESISTANT, ODORLESS, NON- FASTENER-REACTIONARY PRESSURE TREATMENT - ROSBORO HI CLEAR II OR APPROVED EQUAL

4.I.I. RETENTION LEVEL OF .055 COMBINED PFC. 4.1.2. COPPER NAPHTHENATE AND WATERBORNE PRESSURE TREATING ARE NOT ACCEPTABLE. 4.2. PRIOR TO TRUSS FABRICATION, CONTRACTOR TO PRESSURE TREAT ALL FIELD CUTS,

BORES, ETC TO TRUSS MEMBERS PRIOR TO TRUSS FABRICATION. 5. STAIN ALL TRUSS MEMBERS WITH OIL BASED STAIN AND SEAL WITH CLEAR SEALER -FACTORY APPLY PRIOR TO TRUSS FABRICATION. STAIN COLOR AS SELECTED.

0608. PRE-ENGINEERED WOOD ROOF TRUSSES

a. PROVIDE FACTORY FABRICATED PRE-ENGINEERED WOOD ROOF TRUSSES AND GIRDERS AS SHOWN THE DRAWINGS AND NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATIONS ANSI/TPI I-2007, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND SUPPLEMENT (ANSI/AF&PA NDS 2005), AND SECTION 2303.4, OBC.

b. MATERIALS DIMENSIONAL LUMBER: SPECIES PER DESIGN BY TRUSS MANUFACTURER; No. 2 GRADE OR BETTER, 15% MAXIMUM MOISTURE CONTENT.

2. CONNECTIONS: ALL INTERNAL CONNECTIONS ARE TO BE DESIGNED BY THE TRUSS FABRICATOR. METAL CONNECTOR PLATES TO BE GALVANIZED SHEET STEEL ASTM A446, GRADE A COATING GLASS G 60

3. HANGERS AND SEATS: ALL TRUSS TO TRUSS HANGERS, GIRDER TO COLUMN SEATS ARE TO BE DESIGNED AND PROVIDED BY THE TRUSS FABRICATOR.

c. DESIGN. REFERENCE STRUCTURAL DRAWINGS FOR LOADING REQUIREMENTS AND ADDITIONAL

2. IN ADDITION TO THE UNIFORM LOADS INDICATED ON THE DRAWINGS, DESIGN TRUSSES AND GIRDERS FOR ALL SUPERIMPOSED DEAD LOADS INCLUDING BUT NOT LIMITED TO OVERLAY FRAMING, CHIMNEYS, MECHANICAL EQUIPMENT, ETC.

3. DESIGN OF MEMBERS AND CONNECTIONS IS TO BE BY A PROFESSIONAL ENGINEER. REGISTERED IN OHIO, EXPERIENCED IN SIMILAR DESIGNS, RETAINED BY THE FABRICATOR. 4. THE DESIGN OF ALL HANGER CONNECTIONS AND SEATS SHALL BE THE RESPONSIBILITY OF

THE TRUSS SUPPLIER/FABRICATOR. REQUIRED SUBMITTALS

I. SUBMIT TRUSS SHOP DRAWINGS WHICH EXHIBITS THE SEAL OF THE ENGINEER RESPONSIBLE FOR THE TRUSS DESIGN.

2. SUBMIT FLOOR PLAN LAYOUT DRAWING WHICH INDICATES THE LOCATION OF EACH TRUSS SUBMIT HANGER CONNECTOR AND SEATS TYPES AND LOCATIONS.

SUBMIT BRACING OF TRUSSES COMPONENTS AND REQUIREMENTS. e. DESIGN TRUSS LOADINGS

TOP CHORD DEAD LOAD: 10 psf TOP CHORD LIVE LOAD: 25 psf . BOTTOM CHORD DEAD LOADING: 10 psf

4. TOP CHORD NET WIND UPLIFT: 10 psf TRUSS MANUFACTURER TO SUBMIT ERECTION PLAN AND SHOP DRAWINGS, BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF OHIO CONFORMING TO THE DESIGN CRITERIA SPECIFIED HEREIN, FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DATA TO CONTAIN:

DESIGN LOADINGS AND ALLOWABLE STRESS INCREASES EMPLOYED CALCULATED TRUSS MEMBER STRESSES

3. RATED LOAD CAPACITY OF THE TRUSS MEMBER CONNECTION 4. SIZE, SPECIES, AND STRESS-GRADE OF LUMBER EMPLOYED

5. FABRICATION DETAILS INDICATING LOCATION OF CONNECTORS 6. PERMANENT BRIDGING/BRACING MEMBERS, LOCATIONS AND DETAILS

HANDLING AND ERECTION INSTRUCTIONS

TRUSS-TO-TRUSS CONNECTION DETAILS q. FAILURE TO FURNISH ANY OF THE ABOVE REQUIRED DATA WILL BE REGARDED AS AMPLE REASON FOR THE REJECTION OF THE SHOP DRAWINGS. THE CONTRACTOR SHALL APPROVE FABRICATION DRAWINGS INDICATING SIZE, SHAPE AND LAYOUT PRIOR TO SUBMITTAL FOR

REVIEW BY THE ARCHITECT AND THE ARCHITECT'S CONSULTANT. h. CONNECTOR PLATES TO BE DESIGNED BY TRUSS FABRICATOR. ALL PLATES SHALL BE A MINIMUM OF 0.036 INCHES IN THICKNESS, UNLESS NOTED OTHERWISE, AND SHALL BE MANUFACTURED FROM MATERIAL MEETING THE REQUIREMENTS OF ASTM A446, GRADE A STEEL

PLATES TO BE GALVANIZED IN ACCORDANCE WITH THE ASTM A525 G-60 SPECIFICATIONS. 0609. HANDLE AND ERECT PRE-ENGINEERED WOOD TRUSSES FURNISHED UNDER THIS DIVISION. PROVIDE ALL OTHER MATERIAL NOT PROVIDED BY THE TRUSS MANUFACTURER. BRACING FOR TRUSSES AND THE INSTALLATION OF SAME SHALL BE IN STRICT ACCORDANCE WITH TPI'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" BWT-76, AND THE TRUSS MANUFACTURER'S PROCEDURES AND

SPECIFICATIONS. a. INSTALL ALL PERMANENT BRACING AND COMPONENTS PRIOR TO APPLICATION OF LOADS TO

0610. MISCELLANEOUS FRAMING REQUIREMENTS

a. USE CONTINUOUS, STAGGERED, SOLID WOOD BLOCKING AT MID-HEIGHT, UP TO 66 INCHES O.C.

MAXIMUM, FOR ALL EXTERIOR LOAD-BEARING WOOD FRAMED WALLS, MATCH STUD DEPTH. b. PROVIDE TRIPLE STUDS AT GORNERS, DOUBLE JACK BEARING STUDS UNDER EACH END OF BEAMS, DOUBLE EXTERIOR AND INTERIOR LOAD-BEARING WALLS AND PARTITIONS, MATCH STUD WIDTH, JACK BEARING STUDS WITH ONE KING STUD UNDER EACH END OF INTERIOR HEADERS; AND DOUBLE JACK BEARING STUDS WITH DOUBLE-KING STUD UNDER EACH END OF EXTERIOR HEADERS, UNLESS OTHERWISE NOTED. SEE DRAWINGS.

c. PROVIDE A SINGLE, SILL/SOLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL STUD WALLS, MATCH STUD WIDTH.

I. SILL/SOLE PLATES ON MASONRY WALL OR CONCRETE SLAB SHALL BE PRESERVATIVE TREATED WOOD AND SHALL BE ANCHORED TO THE FOUNDATION WALL IN ACCORDANCE WITH THE DRAWINGS. TYPES AND PLACEMENT OF SILL/SOLE PLATE ANCHORING DEVICES SHALL 0622. INSTALL THE DECORATIVE METAL COLUMNS AND HANDRAIL FURNISHED UNDER DIVISION 05 OF THE CONFORM TO THE REQUIREMENTS OF OBC SECTION 2308.6, UNLESS OTHERWISE NOTED. SEE DRAWINGS.

d. WOOD BEAMS AND LINTELS SHALL BE SINGLE ONE-PIECE LENGTH, FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS IN FULL FURNISH WOOD HEADERS OVER OPENINGS IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. UNLESS OTHERWISE NOTED, PROVIDE PLYWOOD WALL SHEATHING ON ALL WOOD FRAMED EXTERIOR WALLS, CORNICES, PARAPETS, ETC.

q. FURNISH AND INSTALL WOOD BRIDGING, BLOCKING, BRACING, ETC. FOR PRE-ENGINEERED WOOD ROOF TRUSSES AND WOOD FLOOR TRUSSES AS INDICATED ON THE TRUSS FABRICATOR'S REVIEWED SHOP DRAWINGS.

h. PROVIDE ALL ROUGH CARPENTRY COMPONENTS FOR WOOD BARRICADES, BRACING, BLOCKING, ETC., AS NEEDED OR REQUIRED TO COMPLETE THE WORK. PROVIDE DRAFTSTOP IN ACCORDANCE WITH OBC AND/OR AS INDICATED ON THE DRAWINGS:

PAINT STENGIL "DRAFTSTOP-SEAL ALL PENETRATIONS" A MINIMUM OF FOUR FEET APART IN ANY

DIRECTION 0611. UNLESS OTHERWISE NOTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPERLY DESIGNED CONNECTORS FOR THE END SUPPORT OF ALL WOOD FRAMED MEMBERS. AS A MINIMUM, ALL FASTENER CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF OBC SECTION 2304 AND

THE FASTENING SCHEDULE LISTED IN OBC TABLE 2304.10.1. a. JOIST TO BEAMS, 16 GA. GALVANIZED JOIST HANGERS BY SIMPSON STRONG-TIE CO. PROVIDE SLOPED AND/OR SKEWED HANGERS WHERE REQUIRED.

b. PROVIDE (1) PLYWOOD SUPPORT CLIP, BY SIMPSON STRONG-TIE CO., AT PANEL EDGES AND c. PROVIDE GALVANIZED STEEL CONNECTORS, WITH STEEL GAUGE AS NOTED, FOR WOOD FRAMING AS MANUFACTURED BY SIMPSON "STRONG-TIE" COMPANY. USE ONLY FASTENERS AS REQUIRED

BY THE MANUFACTURER.

a. PROVIDE BOLTS, PLATES, ANCHORS, HANGERS AND OTHER MISCELLANEOUS STEEL AND IRON SHAPES AS REQUIRED FOR WOOD FRAMING AND SUPPORTING OF WOODWORK, AND FOR ANCHORING OR SECURING FRAMING AND/OR WOODWORK TO CONCRETE, MASONRY, STEEL OR WOOD STRUCTURES. b. PROVIDE SIZE, TYPE, MATERIAL AND FINISH REQUIRED FOR NAILS, SCREWS, BOLTS, NUTS, WASHERS

AND ANCHORING DEVICES. PROVIDE REQUIRED FINISH AS SPECIFIED BY THE PRESERVATIVE TREATMENT MANUFACTURER. . FURNISH ALL FASTENERS, BOLTS, NUTS, WASHERS, ETC. TO INSTALL DOORS AND WINDOWS AS

INDICATED AND SPECIFIED UNDER DIVISION 08 OF THE GENERAL NOTES. d. ALL EXTERIOR FASTENINGS, NAILS, ETC., TO BE NON-STAINING AND NON-CORROSIVE. e. INSTALL ROUGH HARDWARE OF EVERY KIND AND DESCRIPTION TO COMPLETE THE WORK.

F. FURNISH AND INSTALL THE EXISTING RELOCATED FINISH (DOOR) HARDWARE IN ACCORDANCE WITH DIVISION OB OF THE GENERAL NOTES. 0613. FINISH CARPENTRY AND MILLWORK SHALL COMPLY WITH THE STANDARDS OF "CUSTOM" QUALITY IN ACCORDANCE WITH THE ARCHITECTURAL WOODWORK INSTITUTE STANDARDS, TITLED, "ARCHITECTURAL

WOODWORK QUALITY STANDARDS," LATEST EDITION. MILLWORK SUPPLIER / INSTALLER SHALL PROVIDE AND INSTALL FINISH HARDWARE AND COMPONENTS FOR ALL CABINETS. a. FURNISH ALL NECESSARY/REQUIRED 2x (NOM.) WOOD BLOCKING FOR ANCHORING, GRAB BARS,

RECESSED ITEMS, SURFACE MOUNTED ITEMS, EQUIPMENT, ETC. PROVIDE ALL HARDWARE REQUIRED FOR PROPERLY OUT-FITTED CASEWORK FABRICATE AND INSTALL FINISHED CARPENTRY WORK PROPERLY FRAMED, CLOSELY FITTED

AND ACCURATELY SET TO REQUIRED LINES AND LEVELS AND RIGIDLY SECURED IN PLACE. d. INSTALL WORK STRAIGHT, PLUMB, LEVEL AND IN TRUE ALIGNMENT; SHIM AS REQUIRED, CONCEALING SHIMS; NEATLY AND ACCURATELY FITTED, SCRIBED AND THOROUGHLY SECURED.

 MITERS AND OTHER JOINTS SHALL BE PLANED AND SANDED. F. ALL WORK SHALL BE LEFT CLEAN AND FREE FROM WARP, TWIST, OPEN JOINTS AND OTHER

INSTALL STANDING AND RUNNING TRIM AND MILLWORK WITH MINIMUM NUMBER OF JOINTS: I. USE FULL LENGTH PIECES, FROM MAXIMUM LENGTH OF MATERIAL AVAILABLE: 2. STAGGER JOINTS IN ADJACENT AND RELATED MEMBERS.

3. COPE AT RETURN, MITTER AT CORNERS AND COMPLY WITH "QUALITY STANDARDS" FOR JOINERY 4. BUTT JOINTS, EXCEPT AS DETAILED, ARE NOT ACCEPTABLE h. INTERIOR MATERIAL: SHAPED, UNFINISHED POPLAR; S4S; GRADE B SELECT.

SELECTED BY OWNER. 2. DOOR CASING: KLII3 BY CAPITAL CITY MILLWORK OR EQUAL; 3/4 INCHES X 3-1/2 INCHES AS SELECTED BY OWNER 3. GROWN: KL34223-B-CR BY CAPITAL CITY MILLWORK OR EQUAL AS SELECTED BY OWNER.

I. PROTECT INSTALLED FINISH CARPENTRY MATERIALS AND MILLWORK UNTIL FINAL ACCEPTANCE

- I. BASE: KL299 BY CAPITAL CITY MILLWORKS OR EQUAL; II/16 INCHES X 5-1/2 INCHES AS

0614. PROVIDE EXTERIOR DECORATIVE WOOD TRIMS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. a: EXTERIOR MATERIAL: MATCH SAME MATERIAL AS FIBER CEMENT WOOD SIDING SPECIFIED IN DIVISION OF THE GENERAL NOTES.

b. FASTENERS: AS RECOMMENDED BY THE MANUFACTURER. c. INSTALL WITH MINIMUM NUMBER OF JOINTS UTILIZING FULL LENGTH PIECES FROM MAXIMUM LENGTH OF MATERIAL AVAILABLE. STAGGER JOINTS IN ADJACENT AND RELATED MEMBERS. GOPE AT RETURN MITTER AT CORNERS AND COMPLY WITH "QUALITY STANDARDS" FOR JOINERY. BUTT JOINTS, EXCEPT AS DETAILED, ARE NOT ACCEPTABLE

MANUFACTURER'S RECOMMENDATIONS FOR PROPER PREPARATION AND APPLICATION. REFERENCE DIVISION OF THE GENERAL NOTES. e. APPLY SEALANT FOR COSMETIC, AIRTIGHT AND WATERTIGHT INSTALLATION, REFERENCE DIVISION OF THE GENERAL NOTES.

d. EXTERIOR TRIMS SHALL BE PAINTED AS INDICATED ON THE DRAWINGS. FOLLOW

F. SEAL CUT ENDS OF EXTERIOR MATERIAL AS RECOMMENDED BY THE MANUFACTURER. q. PROTECT INSTALLED FINISH CARPENTRY MATERIALS AND MILLWORK UNTIL FINAL ACCEPTANCE

0615. FURNISH AND INSTALL SHOP FABRICATED CASEWORK (CABINETS) AND CABINET HARDWARE, AND PLASTIC LAMINATED COUNTER-TOPS, BACK-SPLASHES AND SIDE-SPLASHES SPECIFIED UNDER DIVISION 12 OF THE GENERAL NOTES. a. FURNISH CUT-OUTS, USING TEMPLATES, FOR PLUMBING FIXTURES, ELECTRICAL DEVICES, ETC.

b. TEMPLATES TO BE PROVIDED BY THE RESPECTED TRADE REQUIRING THE CUT-OUT. 0616. IN LIEU OF PLASTIC LAMINATE COUNTER-TOPS, AND IF ONLY SELECTED BY THE OWNER, PROVIDE SOLID SURFACE COUNTER-TOP AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH

COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. a. MATERIALS: I. SOLID POLYMER FABRICATED RESIN: FACTORY FABRICATED COMPONENTS TO ACHIEVE REQUIRED SHAPES, SIZES, AND PROFILES WITHOUT CRACKS, SPALLING, PITS, SURFACE

POROSITY, CHIPPED AREAS, OR BLISTERS a) COUNTER-TOP THICKNESS: 3/4 INCHES b) COUNTER-TOP FACE THICKNESS: 1-1/2 INCHES.

c) BACK-SPLASH AND SIDE-SPLASH: 3/4 INCHES x 4 INCHES. d) RADIUS CORNERS AND EDGES. 2. BONDING ADHESIVES: TWO PART ADHESIVE WITH COLOR MATCHING SOLID POLYMER FABRICATION AND OF TYPE AS RECOMMENDED BY SOLID POLYMER FABRICATION MANUFACTURER FOR JOINING APRONS, END AND BACK-SPLASHES TO TOPS.

. SEALANTS: SANITARY SILICONE SEALANT IN ONE COLOR AS SELECTED BY OWNER. b. COLOR AND STYLE: SELECTED BY ARCHITECT c. MANUFACTURER: DUPONT, CORIAN OR EQUAL

PLUMBING DRAWINGS AND SPECIFICATIONS.

d. VERIFY ALL MEASUREMENTS IN THE FIELD AFTER THE INSTALLATION OF GYPSUM BOARD. e. INSTALL COUNTER-TOPS AND SPLASHES IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS. I. INSTALL PLUMBING FIXTURES AND MAKE PLUMBING CONNECTIONS IN ACCORDANCE WITH THE

0617 PRE-FABRICATED WOOD STAIR ASSEMBLY a. FURNISH AND INSTALL FACTORY FABRICATED WOOD STAIR ASSEMBLY WHERE SHOWN ON THE DRAWINGS. FURNISH COMPLETE ASSEMBLY WITH TREAD, CLOSED RISER AND SIDE APRONS.

b. STAIR LOADING: 100 psf LIVE LOAD. C. WOOD SPECIES FOR ENTIRE ASSEMBLY: SYPI No. 1 / No. 2, 15% MAXIMUM MOISTURE CONTENT, PAINT / STAIN GRADE. d. MINIMUM BOARD THICKNESS FOR STAIR ELEMENTS:

- I. TREAD: I-I/4 INCHES THICK

2. SIDE APRON: I-I/4 INCHES THICK

- 3. RISER: 3/4 INCHES THICK - 4. OR FABRICATORS BOARD THICKNESS'S TO WITHISTAND THE SPECIFIED LIVE LOAD. e. STAIR NOSING AND TREAD SHALL BE IN COMPLIANCE WITH ANSI/ICC AHT.I-2009. REFERENCE DIVISION 09 OF THE GENERAL NOTES.

0618. INSTALL THE EXTERIOR GYPSUM BOARD SHEATHING FURNISHED UNDER DIVISION 09 OF THE GENERAL 0704. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

0619. FURNISH AND INSTALL CARPENTRY RELATED ITEMS SUCH AS INSULATION IN CAVITIES TO BE COVERED WITH WOOD FRAMING COMPONENTS OR COVERING WOOD FRAMING COMPONENTS (I.E. PARTITION INTERSECTIONS AT EXTERIOR WALLS, INFILTRATION BARRIERS, ROOF FELTS, ETC.), CAULKING, ADHESIVES, SILL SEAL, SHIMS, ETC., WHETHER OR NOT INDICATED ON THE DRAWINGS.

0620. INSTALL ITEMS SUCH AS TOILET ACCESSORIES, METAL LOCKERS, FIRE EXTINGUISHER GABINETS, FIRE EXTINGUISHERS AND SIGNAGE FURNISHED UNDER DIVISION IO OF THE GENERAL NOTES.

0621. INSTALL DOORS, DOOR FRAMES AND DOOR HARDWARE, AND BORROWED LITES, FURNISHED UNDER DIVISION 08 OF THE GENERAL NOTES.

### DIVISION 7 - THERMAL AND MOISTURE PROTECTION

0700. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES.

a. SHEET WATERPROOFING SYSTEM

c. INTERIOR PARTITION ACOUSTICAL INSULATION (SOUND ATTENUATION BATT)

d. VAPOR RETARDER SHEETS LIQUID SPRAYED APPLIED e. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEETS

METAL ROOF PANELS

k. Exterior insulation and finish system

m. SOFFIT PANELS AND FASCIA

p. GUTTERS AND DOWN-SPOUTS

0702. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH ANY PORTION OF THE WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN

SATISFACTORY PERFORMANCE. 0703. PROVIDE APPROPRIATE THERMAL INSULATION ASSEMBLIES FOR FOUNDATIONS, EXTERIOR WALLS, ATTIC SPACES AND SOUND ASSEMBLIES AS INDICATED ON THE DRAWINGS. INCLUDES NETTING, WIRE

a. INSTALL IN ACCORDANCE WITH THE REFERENCED ASTM AND MANUFACTURER'S WRITTEN

INSULATION TYPES:

c. EXTRUDED POLYSTYRENE INSULATION BOARD: ASTM C578. THICKNESS AND R-VALUE AS

PERIMETER INSULATION ON VERTICAL SURFACES. c.b. MANUFACTURER: DOW CHEMICAL, TENNECO BUILDING PRODUCTS, DIVERSIFOAM, UC INDUSTRIES OR APPROVED EQUAL.

d.a. MANUFACTURER: OWENS CORNING, CERTAINTEED, JOHNS MANVILLE. d.b. MAXIMUM FLAME SPREAD 25, SMOKE DEVELOPED 50.

e.c. MAXIMUM FLAME SPREAD 25, SMOKE DEVELOPED 50, F. LOOSE FILL INSULATION AT ROOF ATTICS: MINERAL FIBER ASTM C764; CELLULOSIC FIBER ASTM

f.c. MAXIMUM FLAME SPREAD 5, SMOKE DEVELOPED 5. f.d. INSTALL ACCORDING TO ASTM C 1015.

MANUFACTURER: OWENS CORNING, CERTAINTEED, JOHNS MANVILLE SEALANT MANUFACTURER: USG OR APPROVED EQUAL.

ANGLE AND WALL, FLOOR AND GYPSUM WALLBOARD CEILING PENETRATIONS. h. ENSURE TIGHT FIT AROUND ALL OBSTRUCTIONS AND FILL ALL VOIDS. I. COORDINATE WATER LINES LOCATED IN EXTERIOR WALLS. WATER LINE IS TO BE ENCAPSULATED

INDICATED. PENETRATIONS THROUGH EXTERIOR WALL SHEATHING.

BOTTOM OF WALL FRAMING SILL PLATE ON EXTERIOR WALLS.

FIBER CEMENT WOOD SIDING AND TRIM - MEMBRANE ROOFING

0701. THERMAL INSULATING MATERIALS SHALL BE IN ACCORDANCE WITH OBC CHAPTER 7. INSULATING MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 75 OR LESS, AND SMOKE-DEVELOPED RATING OF 450 OR LESS.

a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR

STAYS, VAPOR BARRIERS, SEAL TAPE AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

c.a. IF NOT OTHERWISE INDICATED, EXTEND FOUNDATION INSULATION A MINIMUM OF 24 INCHES BELOW EXTERIOR GRADE LINE. USE MANUFACTURER'S RECOMMENDED ADHESIVE TO INSTALL

c.c. MAXIMUM FLAME SPREAD 75, SMOKE DEVELOPED 450. d. UN-FACED GLASS FIBER BLANKET INSULATION: ASTM C665 TYPE I, CLASSIFIED AS NON-COMBUSTIBLE IN ACCORDANCE WITH ASTM EI36. THICKNESS AND R-VALUE AS INDICATED.

e. MINERAL FIBER INSULATION: BLANKET ASTM C553; BLOCK AND BOARD ASTM C612; LIGHT FRAME

CONSTRUCTION ASTM C665. THICKNESS AND R-VALUE AS INDICATED e.a. MANUFACTURER: OWENS CORNING, CERTAINTEED, JOHNS MANVILLE e.b. INSTALL ACCORDING TO ASTM C 1320.

C739; GLASS FIBER ASTM C764. THICKNESS AND R-VALUE AS INDICATED. F.a. TYPE I FOR PNEUMATIC APPLICATION. f.b. TYPE 2 FOR POURED APPLICATION.

F.E. PROVIDE EAVE VENTILATION BAFFLES IN ATTIC AT ROOF TRUSSES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. DETAILS AND SPECIFICATIONS. SOUND ATTENUATION: ASTM E413. PROVIDE THICKNESS REQUIRED FOR AN STC RATING OF 34 TO

MAXIMUM FLAME SPREAD IO, SMOKE DEVELOPED IO. AT SOUND ASSEMBLIES, PROVIDE SEALANT AT BASE OF WALL, ACOUSTICAL CEILING WALL

IN INSULATION (PROVIDED UNDER DIVISION 22) AND LOCATED ON THE WARM SIDE OF THE WALL INSULATION. . PRIOR TO INSTALLATION, APPLY JOINT SEALANT, SPECIFIED IN THIS DIVISION, TO LOCATIONS

VOIDS AROUND WINDOWS AND DOORS THAT ARE TOO NARROW FOR INSULATION.

k. REFERENCE OTHER SECTIONS OF THIS DIVISION FOR ADDITIONAL THERMAL INSULATION

b. THERMAL INSULATION

. GLASS FIBER / ASPHALT SHINGLES WALL AND ROOF UNDERLAYMENT (FELT PAPER)

I. ENVIRONMENTAL, ACOUSTICAL, AND FIRE-RESISTANT SEALANTS

n. ALL FLASHING WITH MANUFACTURER'S DETAILS FOR APPLICABLE SYSTEMS IN THE GENERAL O. PARAPET COPING AND DETAILS FOR APPLICABLE SYSTEM IN HE GENERAL NOTES

ZINC-IRON ALLOW-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS 4. ASTM A755, STANDARD SPECIFICATION FOR STEEL SHEET, METALLIC COATED BY THE HOT-DIP PROCESS AND PRE-PAINTED BY THE COIL COATING PROCESS FOR EXTERIOR EXPOSED 5. ASTM B209, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND

INSTRUCTIONS, DETAILS AND SPECIFICATIONS. 7. ASTM C665, STANDARD SPECIFICATION FOR MINERAL-FIBER BLANKET THERMAL INSULATION b. NO INSULATION SHALL CONTAIN FORMALDEHYDE. FOR LIGHT FRAME CONSTRUCTION AND MANUFACTURED HOUSING 8. ASTM CTIT, STANDARD TERMINOLOGY OF BUILDING SEALS AND SEALANTS 9. ASTM C739, STANDARD SPECIFICATION FOR CELLULOSIC FIBER LOOSE-FILL THERMAL

> INSULATION IO. ASTM C764, STANDARD SPECIFICATION FOR MINERAL FIBER LOOSE-FILL THERMAL INSULATION II. ASTM C834, STANDARD SPECIFICATION FOR LATEX SEALANTS 12. ASTM C919, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS 13. ASTM C920, STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS

> > INSULATION SYSTEMS AND EIFS WITH DRAINAGE

ESTABLISHING SEALANT JOINT WIDTH

**WATERPROOFING** 

AS ROOF FLASHING

a. AMERICAN ARCHITECTURE MANUFACTURERS ASSOCIATION (AAMA)

I. SMACNA, ARCHITECTURAL SHEET METAL MANUAL

2. DR-08-II, WOOD NAILERS AND SECUREMENT CRITERIA

d. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

e. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)

LEAKAGE CONTROL AND REROOFING

RESISTANCE OF ROOFING FASTENERS

h. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

. UNDERWRITER'S LABORATORIES, LLC (UL)

2. DS 152, CLEANING AND RECOATING

6. DS 169, APPLICATION INSTRUCTIONS

STEEL PLATE, SHEET AND STRIP

3. DS 153, EXPANSION JOINTS AND SEALANTS

5. DS 168, OUTSULATION MD SYSTEM SPECIFICATIONS

I. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)

m. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

k. DRYVIT SYSTEMS, INC.

4. DS 167, DETAILS

SYSTEMS; INTERIOR OR EXTERIOR FINISH SYSTEMS

INTERNATIONAL CODE COUNCIL EVALUATION SERVICES, INC. (ICC ES)

2. UL 1897, STANDARD UPLIFT TESTS FOR ROOF COVERING MATERIALS

I. NCMA 19-6A, JOINT SEALANTS FOR CONCRETE MASONRY WALLS

I. DS 131, POLYSTYRENE INSULATION BOARD SPECIFICATION

a. FACTORY MUTUAL GLOBAL RESEARCH STANDARDS (FM)

SINGLE PLY ROOFING INDUSTRY (SPRI)

ALTERATION AND DEMOLITION

DECK ROOF COMPONENTS

I. NRCA ROOFING MANUAL: MEMBRANE ROOFING SYSTEMS

. DR-05-11, INSULATION FASTENING PATTERNS

c. CARLISLE SYNTEC SYSTEMS

4. SYSTEM DETAILS

3. SPECIFICATION SUPPLEMENT

I. AAMA 621, VOLUNTARY SPECIFICATIONS FOR HIGH PERFORMANCE ORGANIC COATING ON COIL

PROCEDURES FOR SUPERIOR PERFORMING ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND

COATED ARCHITECTURAL HOT-DIPPED GALVANIZED AND ZINC-ALUMINUM COATED STEEL

2. AAMA 2605, VOLUNTARY SPECIFICATION, PERFORMANCE REQUIREMENTS AND TEST

b. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)

OSHA 29 CFR 1910 SUBPART D, WALKING, WORKING SURFACES, GENERAL INDUSTRY

3. OSHA 29 CFR 1926 SUBPART L, SCAFFOLDING, CONSTRUCTION INDUSTRY

4. OSHA 29 CFR 1926, SUBPART M, FALL PROTECTION, CONSTRUCTION

3. PROPERTY LOSS PREVENTION DATA SHEET FM I-28, WIND DESIGN

6. PROPERTY LOSS PREVENTION DATA SHEET FM 1-49, PERIMETER FLASHING

1. PROPERTY LOSS PREVENTION DATA SHEET FM I-52, FIELD UPLIFT TESTS

I. ICC ES AC219, ACCEPTANCE CRITERIA FOR INSULATION AND FINISH SYSTEMS

I. UL 580, STANDARD TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES

2. OSHA 29 CFR 1910.28, SAFETY REQUIREMENTS FOR SCAFFOLDING, GENERAL INDUSTRY

2. NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR

ANSI/SPRI WD-I, WIND DESIGN STANDARD PRACTICES FOR ROOFING ASSEMBLIES

3. ANSI/SPRI FX-I, STANDARD FIELD TEST PROCEDURE FOR DETERMINING THE WITHDRAWAL

2. ANSI/SPRI ES-I, WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING

I. FM 4474, AMERICAN STANDARD FOR EVALUATING THE SIMULATED WIND UPLIFT RESISTANCE OF

ROOF ASSEMBLIES USING STATIC POSITIVE AND/OR NEGATIVE DIFFERENTIAL PRESSURES

4. PROPERTY LOSS PREVENTION DATA SHEET FM I-29, ROOF DECK SECUREMENT AND ABOVE

ANSI/EMI 99A, AMERICAN NATIONAL STANDARD FOR EXTERIOR INSULATION AND FINISH SYSTEM

PLASTIC INTERIOR MATERIALS; PLASTIC EXTERIOR BUILDING PANELS; WALL/CEILING COATING

2. ANSI/FM 4880, EVALUATING INSULATED WALL OR WALL AND ROOF/CEILING ASSEMBLIES;

I. ASTM AI53, STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL

2. ASTM AI61, STANDARD SPECIFICATION FOR STAINLESS AND HEAT-RESISTING CHROMIUM-NICKEL

3. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR

6. ASTM C578, STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE THERMAL

5. PROPERTY LOSS PREVENTION DATA SHEET FM I-30, REPAIR FOR WIND DAMAGED ROOF

2. PROPERTY LOSS PREVENTION DATA SHEET FM I-O, SAFEGUARDS DURING CONSTRUCTION,

14. ASTM CIOI5, STANDARD PRACTICE FOR INSTALLATION OF CELLULOSIC AND MINERAL FIBER LOOSE-FILL THERMAL INSULATION 15. ASTM CII36, STANDARD SPECIFICATION FOR FLEXIBLE, LOW PERMEANCE VAPOR RETARDERS FOR THERMAL INSULATION

17. ASTM CII86, STANDARD SPECIFICATION FOR FLAT FIBER-CEMENT SHEETS 18. ASTM CII93, STANDARD GUIDE FOR USE OF JOINT SEALANTS 19. ASTM CI289, STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE THERMAL INSULATION BOARD 20.ASTM CI320, STANDARD PRACTICE FOR INSTALLATION OF MINERAL FIBER BATT AND BLANKET

16. ASTM CIITT, STANDARD SPECIFICATION FOR GLASS MAT GYPSUM SUBSTRATE FOR USE AS

THERMAL INSULATION FOR LIGHT FRAME CONSTRUCTION 21. ASTM CI330, STANDARD SPECIFICATION FOR CYLINDRICAL SEALANT BACKING FOR USE WITH COLD LIQUID APPLIED SEALANTS 22.ASTM CI39T, STANDARD PRACTICE FOR APPLICATION OF CLASS PB EXTERIOR FINISH AND

23. ASTM CI472, STANDARD GUIDE FOR CALCULATING MOVEMENT AND OTHER EFFECTS WHEN

24. ASTM CI520, STANDARD GUIDE FOR PAINTABILITY OF LATEX SEALANTS 25. ASTM D226, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING 26.ASTM DI970, STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIAL USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION

27. ASTM D2178, STANDARD SPECIFICATION FOR ASPHALT GLASS FELT USED IN ROOFING AND

28.ASTM D3462, STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES 29. ASTM D4586, STANDARD SPECIFICATION FOR ASPHALT ROOF CEMENT 30.ASTM D4631, STANDARD SPECIFICATION FOR EPDM SHEET USED IN SINGLE-PLY ROOF

32. ASTM D4869, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT UNDERLAYMENT USED IN STEEP SLOPE ROOFING 33. ASTM D6369, STANDARD GUIDE FOR DESIGN STANDARD FLASHING DETAILS FOR EPDM ROOF

31. ASTM D4811, STANDARD SPECIFICATION FOR NONVULCANIZED (UNCURED) RUBBER SHEET USED

34. ASTM D7186, STANDARD PRACTICE FOR QUALITY ASSURANCE OBSERVATION OF ROOF CONSTRUCTION AND REPAIR 35. ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING 36. ASTM E413, CLASSIFICATION FOR RATING SOUND INSULATION

31. ASTM EI643, STANDARD PRACTICE FOR SELECTION, DESIGN, INSTALLATION AND INSPECTION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER 38.ASTM EI745, STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN

CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS 39, ASTM E2430, STANDARD SPECIFICATION FOR EXPANDED POLYSTYRENE (EPS) THERMAL INSULATION BOARDS FOR USE IN EXTERIOR INSULATION AND FINISHING SYSTEM 40.ASTM E25II. STANDARD GUIDE FOR DETAILING OF EIFS-GLAD WALL ASSEMBLIES 41. ASTM F1667, STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES AND STAPLES

42.ASTM F2329, STANDARD SPECIFICATION FOR ZINC COATING, HOT-DIP REQUIREMENTS FOR

APPLICATION TO CARBON AND ALLOY STEEL BOLTS, SCREWS, WASHERS, NUTS AND SPECIAL

THREADED FASTENERS n. SEALANT, WATERPROOFING AND RESTORATION INSTITUTE (SWRI) I. SEALANTS: THE PROFESSIONAL'S GUIDE

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IDI **426 EAST MAIN STREET** 

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**GENERAL NOTES** 

DIVISION 6 **THROUGH DIVISION** 7 DRAWING NUMBER

a. THE ROOF SYSTEM SHALL BE DESIGNED TO MEET OBC CHAPTER IS REQUIREMENTS. REFER TO THE STRUCTURAL DRAWINGS FOR THE SPECIFIC WIND SPEED, EXPOSURE AND SNOW LOAD DESIGN

b. PERFORMANCE I. AIR INFILTRATION: AIR LEAKAGE OF NOT MORE THAN 0.06 CFM/SF OF ROOF AREA WHEN TESTED IN ACCORDANCE WITH ASTM E1680 AT THE FOLLOWING TEST PRESSURE DIFFERENCE a) TEST PRESSURE DIFFERENCE ROOF SLOPE 30 DEGREES OR LESS: NEGATIVE 1.57 LBF/SF b) TEST PRESSURE DIFFERENCE ROOF SLOPE GREATER THAN 30 DEGREES: POSITIVE AND NEGATIVE 1.57 LFB/SF.

c) POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE: GREATER THAN OR EQUAL TO 15.0 LBF/SF AND THE GREATER OF 15 PERCENT OF BUILDING LIVE LOAD OR 50 PERCENT OF BUILDING DESIGN POSITIVE WIND PRESSURE DIFFERENCE. d) NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE: 50 PERCENT OF DESIGN WIND UPLIFT

2. WATER PENETRATION: NONE WHEN TESTED IN ACCORDANCE WITH ASTM E1646 AT THE FOLLOWING TEST PRESSURE DIFFERENCE. AT POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE (GREATER THAN OR EQUAL TO 15 LBS PER SQUARE FOOT AND THE GREATER OF 75 PERCENT OF BUILDING LIVE LOAD AND 50 PERCENT OF BUILDING DESIGN) AND NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE (50 PERCENT OF DESIGN WIND UPLIFT PRESSURE). a) TEST PRESSURE DIFFERENCE ROOF SLOPE 30 DEGREES OR LESS: NEGATIVE 2.86 LBF/SF

b) TEST PRESSURE DIFFERENCE ROOF SLOPE GREATER THAN 30 DEGREES: 20 PERCENT OF POSITIVE DESIGN WIND PRESSURE, BUT NOT LESS THAN 6.24 LBF/SF AND NOT MORE THAN c) POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE: GREATER THAN OR EQUAL TO 15.0

LBF/SF AND THE GREATER OF 15 PERCENT OF BUILDING LIVE LOAD OR 50 PERCENT OF BUILDING DESIGN POSITIVE WIND PRESSURE DIFFERENCE. d) NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE: 50 PERCENT OF DESIGN WIND UPLIFT

PRESSURE DIFFERENCE. 3. HYDROSTATIC HEAD RESISTANCE: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE

WITH ASTM E2140 4. WIND UPLIFT: COMPLY WITH ASTM EI529 AND UL 580; CLASS AS SPECIFIED BY THE STRUCTURAL ENGINEER OR AS DETERMINED BY ASCE 7.

5. COMPLY WITH REQUIREMENTS OF FMG 4471 FOR CLASS I OR NONCOMBUSTIBLE CONSTRUCTION. a) FIRE/WINDSTORM CLASSIFICATION: REFERENCE THE STRUCTURAL DRAWINGS.

b) HAIL RESISTANCE: MH 5. STRUCTURAL PERFORMANCE: PROVIDE ASSEMBLY CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED. TESTING IN ACCORDANCE WITH ASTM E1592. a) WIND LOAD: REFERENCE THE STRUCTURAL DRAWINGS. b) SNOW LOAD: REFERENCE THE STRUCTURAL DRAWINGS.

c) DEFLECTION LIMIT: REFERENCE THE STRUCTURAL DRAWINGS. 6. THERMAL MOVEMENT: ALLOW MOVEMENT RESULTING FROM AMBIENT AND SURFACE TEMPERATURE CHANGES; BASE ENGINEERING CALCULATIONS ON THE SURFACE TEMPERATURE OF MATERIALS BASED ON SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS. TEMPERATURE CHANGE 120 DEGREES FAHRENHEIT AMBIENT, 180 DEGREES FAHRENHEIT MATERIAL SURFACES.

7. ENERGY: PROVIDE PRODUCT: THAT IS LISTED ON THE U.S. DEPARTMENT OF ENERGY'S ENERGY STAR ROOF PRODUCTS QUALIFIED PRODUCTS LIST OR; WITH SOLAR REFLECTANCE INDEX NOT LESS THAN XX OR XX WHEN CALCULATED IN ACCORDANCE WITH ASTM E1980; OR WITH INITIAL SOLAR REFLECTANCE NOT LESS THAN 0.70 AND EMISSIVITY NOT LESS THAN 0.75 WHEN TESTED IN ACCORDANCE WITH CRRC-I. c. MATERIAL

I. FACE SHEET PANEL, STANDING SEAM: ASTM B209, ASTM EI637; COIL-COATED ALUMINUM SHEET; TEMPERED AS REQUIRED TO SUIT FORMING OPERATIONS AND AND STRUCTURAL PERFORMANCE; PREFABRICATED AND PRE-FINISHED; MINIMUM 0.024 INCHES (22 GAGE) THICK; PANEL COVERAGE 12 INCHES WIDE; PANEL HEIGHT 1-1/2 INCHES; FORM USING THE CONTINUOUS END ROLLING METHOD WITH NO END LAPS.

I.I. FINISH: SHALL MEET THE ENERGY STAR PERFORMANCE CRITERIA FOR EMISSIVITY PER ASTM CI37I AND REFLECTIVITY PER ASTM CI549; FACTORY APPLIED TWO COAT THERMO CURED SYSTEM COMPRISED OF INHIBITIVE PRIMER TO A DRY FILM THICKNESS OF 0.25 TO 0.31 MIL AND A FLUOROPOLYMER COLOR TOP COAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT TO A DRY FILM THICKNESS 0.70 TO 0.90 MIL. TESTS FOR ADHESION, FLEXIBILITY AND LONGEVITY ARE AS SPECIFIED B' THE PAINT MANUFACTURER.

I.2. FINISH COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD. 2. FLASHING, FASCIA, RAKE AND RAKE SOFFITS: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL: PRESS BRAKE IN MINIMUM 12 FOOT LENGTHS: INSTALLED IN OVERLAP CONDITION; REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS; COLOR TO MATCH THE FACE SHEET PANEL.

3. RIDGE AND SIDEWALL VENT: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL; PRESS BRAKE MINIMUM 12 FOOT LENGTHS; INSTALLED IN OVERLAP CONDITION; COLOR TO MATCH THE FACE SHEET PANEL

4. VENTILATORS: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL; COLOR TO MATCH THE FACE SHEET PANEL. 5. CLOSURES: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL: COLOR TO

MATCH THE FACE SHEET PANEL; COLOR TO MATCH THE FACE SHEET PANEL. 6. COPINGS: SNAP-ON; MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL;

COLOR TO MATCH THE FACE SHEET PANEL. 7. GUTTERS AND DOWNSPOUTS: SEAMLESS; MATCH MATERIAL AND FINISH OF THE FACE SHEET PANEL: COLOR OF THE GUTTER TO MATCH THE FACE SHEET PANEL: AND COLOR OF THE DOWNSPOUT AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD.

8. EAVE SOFFIT PANELS AT BUILDINGS: VINYL, CONTINUOUS VENTING, COLOR AS SELECTED. MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL; 12 INCHES WIDE PANEL. 9. PANEL CLIPS: MINIMUM 0.0625 INCHES THICK, ZINC COATED GALVANIZED, SIZE AND SPACING

AS INDICATED BY THE MANUFACTURER. IO. BACKING PLATE

II. SNOW GUARD: (PROVIDE ON ALL STANDING SEAM PANELS) PLASTIC, PREFABRICATED,

NON-CORROSIVE UNITS DESIGNED TO BE INSTALLED WITHOUT PENETRATING THE ROOF PANELS;

COLORED TO MATCH PANEL 12. CLEATS: MECHANICALLY SEAMED FORMED FROM MINIMUM 0.025 INCHES THICK STAINLESS

STEEL SHEET. 13. SEALING TAPE: 100 PERCENT SOLIDS POLISOBUTYLENE COMPOUND WITH RELEASE PAPER

BACKING, ELASTIC, NON-SAG, AND NON-STAINING PRESSURE SENSITIVE. 14. FASTENERS: CONCEALED SCREWS WITH CORROSION RESISTANT FINISH RECOMMENDED BY THE

ROOFING SYSTEM MANUFACTURER FOR THE SYSTEM BEING INSTALLED. CADMIUM PLATED SCREWS ARE NOT ACCEPTABLE. 15. UNDERLAYMENT: TYPE, LOCATIONS AND LAPS IN ACCORDANCE WITH ROOFING MANUFACTURER

15.1. FURNISH 36" WIDE DOUBLE LAYER OF SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET (ICE SHIELD) PER MFR'S INSTRUCTIONS AND IN ACCORDANCE TO OBC CHAPTER IS AT ALL 15.1.1. SINGLE LAYER AT ALL EAVES AND GABLES AT ENCLOSED INSULATED BUILDINGS.

16. SEALANT: PER MANUFACTURER'S RECOMMENDATION; REFERENCE THIS DIVISION FOR SPECIFIC d. MANUFACTURER AND PRODUCT: DIMENSIONAL METALS IL20 SYSTEM, EQUALS BY FIRESTONE,

CLASSIC METAL ROOFING SYSTEMS, ENGLERT, INC.; OR EQUAL e. THE INSTALLING CONTRACTOR IS TO BE MANUFACTURER CERTIFIED AND HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE

AND SCOPE TO THIS PROJECT. F. CONTRACTOR SHALL CONDUCT AND DOCUMENT A PRE-INSTALLATION CONFERENCE NO EARLIER THAN THREE WEEKS, BUT NOT LATER THAN ONE WEEK PRIOR TO THE SCHEDULED START OF INSTALLATION. ATTENDEES ARE TO INCLUDE THE CONTRACTOR, THE ARCHITECT, THE INSTALLER, THE INSTALLER'S SAFETY OFFICER AND THE MANUFACTURER'S REPRESENTATIVE. ITEMS

DISCUSSED ARE TO INCLUDE THE FOLLOWING: . REVIEW THE DESIGNED ROOFING SYSTEM AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

2. REVIEW FLASHINGS, SPECIAL ROOF DETAILS, ROOF PENETRATIONS, DRAINAGE, EQUIPMENT CURBS AND ANY OTHER CONSTRUCTION THAT WILL AFFECT THE INSTALLATION.

3. REVIEW TESTING AND INSPECTION REQUIREMENTS. 4. REVIEW SAFETY PROCEDURES, EQUIPMENT AND BARRICADING. EXAMINE THE DECK SUBSTRATE FOR COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, INCLUDING FLATNESS AND ATTACHMENT TO STRUCTURAL MEMBERS.

6. REVIEW ROOF LOADING AND MATERIAL STAGING. g. ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. ASSEMBLY WARRANTY: MATERIALS AND WORKMANSHIP FOR FIVE YEARS FOLLOWING DATE OF

SUBSTANTIAL COMPLETION. I. FINISH WARRANTY: REPAIR OR REPLACE ITEMS THAT EXHIBIT DETERIORATION OF FACTORY

APPLIED FINISHES FOR 25 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

WEATHER-TIGHTNESS WARRANTY: REPAIR OR REPLACE ASSEMBLIES THAT FAIL TO REMAIN WEATHER-TIGHT, INCLUDING LEAKS, FOR 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. k. WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING THE CONTACT SURFACE WITH BITUMINOUS COATING, BY APPLYING RUBBERIZED ASPHALT UNDERLAYMENT OR BY OTHER PERMANENT SEPARATION AS

RECOMMENDED BY THE MANUFACTURER. DOCUMENT SEPARATION METHOD TO ARCHITECT IN SHOP

PAINT TOUCH-UP CUTS AS RECOMMENDED BY THE MANUFACTURER. m. INSTALLATION TOLERANCE: 1/4 INCH IN 20 FEET ON SLOPE AND LOCATION LINES; 1/8 INCH OFFSET OF ADJOINING FACES AND ALIGNMENT OF MATCHING PROFILES.

n. GROUND AND BOND THE SYSTEM IN ACCORDANCE WITH NFPA TO, LATEST EDITION.

0706. <del>PROVIDE ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING SYSTEM AS INDICATED ON THE</del> DRAMINGS. INCLUDES MEMBRANE, PROTECTION BOARD, WOOD FRAMING, TERMINATION BAR, FLASHING, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A WATERTIGHT SYSTEM. a. SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN

INSTRUCTIONS, DETAILS AND SPECIFICATIONS. b. MATERIAL

I. MEMBRANE: ASTM D4637, TYPE II; MINIMUM 60-MIL; DUAL PLY POLYESTER-REINFORCED; WITH FACTORY APPLIED TAPE (FAT) SEAM; SURE-TOUGH BY CARLIGLE SYNTEC SYSTEMS. 2. INSULATION BOARD: ASTM CI284, TYPE II, CLASS 2, GRADE 2; CLOSED CELL

POLYISOCYANURATE FOAM CORE BONDED TO MEDIUM WEIGHT FIBER REINFORGED FELT FACER; 48 INCH BY 96 INCH NOMINAL SHEETS, MINIMUM 1-1/2 INCHES THICK; HP-H POLYISO BY CARLISLE SYNTEG SYSTEMS; MINIMUM R-VALUE 7.0 PER INCH.

3. PROTECTION BOARD: ASTM CIITT; CYPSUM CORE, FACED WITH EMBEDDED GLASS MAT; 1/2 INCH THICK; DENSDECK PRIME ROOF BOARD BY GEORGIA PACIFIC OR CARLISLE SYNTEG SYSTEMS. 4. BONDING ADHESIVE: HIGH STRENGTH, SOLVENT BASED CONTACT ADHESIVE; EPDM X-23 BY

CARLISLE SYNTEC SYSTEMS. 5. FLASHING MEMBRANE: ASTM D48H; MINIMUM 60-MILS THICK; FACTORY FORMED WHEREVER POSSIBLE; SIZE AND TYPE AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER FOR

THE CONDITION BEING FLASHED. 6. <del>VAPOR RETARDER: ASTM D2178; TYPE IV GLASS FELT AND G2 BASE SHEET BY GARLISLE</del> SYNTEG SYSTEMS.

. SPLICE TAPE: 6 INCHES WIDE; SECURTAPE BY CARLISLE SYNTEC SYSTEMS 8. MEMBRANE PRIMER: HP-250 BY CARLISLE SYNTEC SYSTEMS

9. ADHESIVE, LAP SEALANT: TYPE AS DETERMINED BY THE MANUFACTURER IO. PARAPET COPING: ASTM A653, ASTM A755, ANGI/SPRI ES-I TESTING METHOD E-3; FACTORY FORMED, FACTORY FINISHED STEEL SHEET; 690 (7275) COATING DESIGNATION; MINIMUM 24 GAUGE; WITH FACTORY APPLIED 3 COAT FLUOROPOLYMER COATING IN COMPLIANCE WITH AAMA 621 CONTAINING NOT LESS THAN TO PERCENT PVDF RESING BY WEIGHT IN COLOR COAT; 20 GAUGE PRE-FORMED AND PRE-PUNCHED GALVANIZED STEEL CLEAT WITH FACTORY ATTACHED CORROSION RESISTANT STAINLESS STEEL SPRING; SECUREDGE COPING 200 BY

CARLISLE SYNTEC SYSTEMS. II. WALK PADS: MANUFACTURER'S STANDARD

12. CURB FOR MECHANICAL EQUIPMENT: TYPE AS SPECIFIED BY THE ROOFING SYSTEM

13. FASTENER: TYPE AS DETERMINED BY THE ROOFING SYSTEM MANUFACTURER. 14. MANUFACTURER: CARLIGLE SYNTEC SYSTEMS; OR APPROVED EQUAL BY FIRESTONE.

d. ONLY USE INSULATION BOARD FURNISHED BY THE ROOFING SYSTEM MANUFACTURES

MANUFACTURER: 10 YEARS FOR THE TOTAL SYSTEM, INCLUDING PUNCTURE, FROM DATE OF INSPECTION BY ROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE.

2. INSTALLER: 2 YEARS FROM DATE OF INSPECTION BY ROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE.

e. THE INSTALLING CONTRACTOR IS TO BE MANUFACTURER CERTIFIED AND HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT 0701. APPLY-36 IN. WIDE, ASTM D226, UL LISTED, 15 Ibs./sq., UN-PERFORATED, ASPHALT SATURATED

ROOFING FELT SUBSTRATE MEMBRANE ON ROOF SHEATHING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS AND OBC CHAPTER IS REQUIREMENTS.

0708. APPLY 36 IN. WIDE, ASTM DI970, UL LISTED, SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET (ICE BARRIER) IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS AND IN ACCORDANCE OBC CHAPTER 15 REQUIREMENTS. a. INSTALL TWO (2) LAYERS OF MATERIAL TO COVER ALL ROOF VALLEYS.

b. COVER FOR A DISTANCE OF 72 INCHES UP ROOF THE ENTIRE LENGTH OF VALLEY.

0709. FURNISH AND INSTALL V. L. CLASS A LABEL, 50 YEAR, "ARCHITECTURAL" CLASS FIBER ROOFING SHINGLES WHERE SHOWN ON THE DRAWINGS TO COMPLY WITH OBG CHAPTER 15, AND INSTALLED PER MANUFACTURER'S PRINTED DETAILS AND SPECIFICATIONS a. STAPLES ARE NOT PERMITTED FOR ANCHORING OF SHINGLES

b. SUBMIT APPLICATOR'S IS YEAR WARRANTY AND MANUFACTURER'S 50 YEAR WARRANTY TO --- CONTRACTOR: c. MANUFACTURER: CELOTEX, OWENS-CORNING AND GAF.

d. FURNISH AND INSTALL 0.032 IN. THICK METAL STEP FLASHINGS, FLASHINGS AND COUNTER-FLASHINGS, ALL PENETRATION FLASHINGS, ALL DRIP-EDGE METAL AND ALL METAL OPEN VALLEY FLASHINGS I. JOIN AND OVERLAPPED AS REQUIRED TO ACHIEVE A WEATHER AND WATER TIGHT ROOFING

e. ALL FLACHINGS SHALL BE OF ROOFING MANUFACTURER'S APPROVED MATERIALS, AND INSTALLED - IN ACCORDANCE WITH ROOFING MANUFACTURER'S AND S.M.A.G.N.A. WRITTEN AND DETAILED

F. FURNISH CONTINUOUS RIDGE VENTILATOR. I. VENTILATING RIDGE CAP WITH VENTILATING MESH HAVING A MINIMUM NET FREE AREA OF 18 — SQ. IN. / LIN. FT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTION

2. FURNISH VENTILATORS WITH BAFFLES TO PREVENT SNOW AND RAIN ENTERING AND WEEP ------ HOLES TO ALLOW WATER TO DRAIN TO ROOF. a. FURNISH BOX-TYPE ATTIC VENTILATORS. . INSTALL BOX-TYPE, PVG, SELF-FLASHING, ATTIC VENTS HAVING 60 SQ, IN, OF "FREE AREA"

WHERE SHOWN ON THE DRAWINGS, INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED 0710. APPLY FLUID-APPLIED, VAPOR-PERMEABLE AIR BARRIER: ELASTOMERIG, UV-RESISTANT, SYNTHETIC

MEMBRANE, FORMULATED FOR APPLICATION RANGE OF 48-70 MILS (MET), 25-35 MILS (DRY); a. AIR PERMEANCE, ASTM E2178: 0.004 CFM/SQ. FT. OF SURFACE AREA AT 1.57 LBF/SQ. FT. (0.02 - L/S x SQ, M OF SURFACE AREA AT 75-PA) PRESSURE DIFFERENCE, MAXIMUM. b. VAPOR PERMEANCE, ASTM E96: MINIMUM 12 PERMS (690 NG/PA x 5 x SQ. M).

c. ELONGATION, ULTIMATE, ASTM D412, DIE 6: 600 PERCENT, MINIMUM.

d. COMBUSTION CHARACTERISTICS: CLASS A, FLAME SPREAD, NOT GREATER THAN 25; SMOKE DEVELOPED. GREATER THAN 450, PER ASTM E84. e. UV RESISTANCE, QUV-B: OVER 160 CYCLES OF UV AND WATER SPRAY WITH NO OBSERVABLE

DETERIORATION. F. VOC CONTENT: LESS THAN 50 G/L.

a. ACCESSORY MATERIALS

PERFORMANCE REQUIREMENTS, AND COMPATIBLE WITH AIR BARRIER MEMBRANE MATERIAL

h. MANUFACTURER: TREMCO, INC. EXOAIR 230 OR EQUAL. OTII. PROVIDE COMMERCIAL BUILDING WRAP AT ROOF GABLES: ASTM E2357 PASSED, ABAA (AIR BARRIER ASSOCN OF AMERICA) EVALUATED AIR BARRIER ASSEMBLY, AND ASSEMBLY WATER RESISTANCE PER ASTM E331. a. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450, RESPECTIVELY, WHEN

TESTED IN ACCORDANCE WITH ASTM E84. b. UV STABILIZED FOR NINE-MONTH EXPOSURE; AND ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. c. SYSTEM DESCRIPTION, SINGLE-LAYER WEATHER BARRIER: SINGLE-LAYER WEATHER BARRIER, INCLUDING

FLASHING AND SEALING OF PENETRATIONS AND SEAMS BEHIND SIDING MATERIALS. d. SYSTEM DESCRIPTION, DOUBLE-LAYER DRAINABLE: DOUBLE-LAYER WEATHER BARRIER WITH INTEGRAL

DRAINAGE, INCLUDING FLASHING AND SEALING OF PENETRATIONS AND SEAMS BEHIND CULTURED STONE MATERIALS.

I. WEATHER BARRIER SHALL CONFORM TO THE CULTURED STONE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS. 2. DRAINABILITY: 98 PERCENT OR GREATER WHEN TESTED IN ACCORDANCE WITH ASTM E2273.

e. AIR PERMEANCE, PRODUCT: NOT MORE THAN O.OOI CFM/SQ. FT. AT 1.57 LBF/SQ. FT. (O.OO5 L/S x SQ. M AT 75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E2178. F. AIR PERMEANCE, ASSEMBLY: NOT MORE THAN 0.04 CFM/SQ. FT. AT 1.57 LBF/SQ. FT. (0.2 L/S x SQ. M AT

75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E2357 AND EVALUATED BY ABAA. q. WATER PENETRATION RESISTANCE, PRODUCT: HYDROSTATIC HEAD RESISTANCE GREATER THAN 7.7 FEET

(2.35 M) IN ACCORDANCE WITH AATTC 127. h. WATER PENETRATION RESISTANCE, ASSEMBLY: ASSEMBLY WALL SPECIMEN DESCRIBED IN ASTM E2351 TO WATER RESISTANCE IN ACCORDANCE WITH ASTM E331. I. FLAME PROPAGATION TEST: MATERIALS AND CONSTRUCTION SHALL BE AS TESTED IN ACCORDANCE WITH

. WEATHER BARRIER SYSTEM TO HAVE A VOC CONTENT OF 30 G/L OR LESS. 0712. INSTALL INCULATING SILL SEALER, MINIMUM 1/4 INCHES THICK, UNDER CONTINUOUS MOOD PLATE OR LIGHT GAUGE METAL TRACK AT CONCRETE FOUNDATION WALLS.

0713. PROVIDE METAL FLASHING AND COUNTER-FLASHING ASSEMBLIES, WHETHER SHOWN OR NOT, AS REQUIRED TO ACHIEVE A WEATHER-TIGHT BUILDING ENVELOPE. INCLUDES REGLETS, CLIPS, STRAPS, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. a. SHALL WITHSTAND WIND LOAD, STRUCTURAL MOVEMENT, THERMALLY INDUCED MOVEMENT AND

EXPOSURE TO WEATHER WITHOUT FAILURE. b. ASSEMBLIES SHALL BE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS OF S.M.A.C.N.A.'S "ARCHITECTURAL SHEET METAL MANUAL", LATEST EDITION.

I. STEEL SHEET FLASHING: HOT DIPPED GALVANIZED MEETING ASTM A653 690 (Z275) ZINC COATING OF STRUCTURAL QUALITY; MINIMUM 24 GAUGE; FACTORY FINISHED BY COIL COATING PROCESS IN COMPLIANCE WITH ASTM A775.

2. REGLET: FORMED TO PROVIDE SECURE, INTERLOCKING, WATERTIGHT SYSTEM; COMPATIBLE WITH STEEL SHEET FLASHING; HOT DIPPED GALVANIZED STEEL 690 (Z275) ZINC COATING OF STRUCTURAL QUALITY; MINIMUM 0.022 INCHES THICK; COLOR TO MATCH STEEL SHEET FLASHING. 0717. 3. FASTENER: HOT-DIPPED ZINC COATED STEEL IN ACCORDANCE WITH ASTM AI53, AND ASTM

F2329; IF EXPOSED, HEX WASHER HEAD FASTENER SHALL BE GASKETED AND FINISHED TO

MATCH THE FLASHING. 4. SEALANT: REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS. d. COLOR: SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE ARCHITECT FROM THE

MANUFACTURER'S STANDARD. e. FURNISH MANUFACTURER'S WARRANTY OF FINISH FOR A MINIMUM 20 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.

F. PAINT TOUCH-UP CUTS AS RECOMMENDED BY THE MANUFACTURER. q. WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATE, PROTECT AGAINST GALVANIC ACTION BY PAINTING THE CONTACT SURFACE WITH BITUMINOUS COATING, BY APPLYING RUBBERIZED ASPHALT OVERLAY OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY THE MANUFACTURER.

0714. PROVIDE AND INSTALL A SELF-ADHERING FLEXIBLE FLASHING ASSEMBLY AT ALL WINDOW AND DOOR ROUGH OPENINGS, AND OTHER ROUGH OPENINGS, AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE, WEATHER-TIGHT, INSTALLATION. FURNISH AND UTILIZE MANUFACTURER'S RECOMMENDED PRIMER, SEAM TAPE, SEALANTS AND FASTENERS. a. THE INSTALLED FLEXIBLE FLASHING ASSEMBLY SHALL MEET OR EXCEED THESE PERFORMANCE

CHARACTERISTICS: ASTM E331 AND ASTM E96. b. APPLY THE FOLLOWING MATERIALS, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, TO ALL OPENINGS: SELF-ADHERING "STRAIGHT FLASHING," SELF-ADHERING "FLEXIBLE FLASHING." SEAM TAPE, FASTENERS, SEALANTS AND PRIMER

MANUFACTURER: DUPONT BUILDING INNOVATIONS, FLASHING PRODUCTS, INC., OR EQUAL.

0715. FORMED METAL WALL PANELS AND ACCESSORIES a. FURNISH AND INSTALL STEEL ROOF PANELS; STEEL WALL PANELS, STEEL GEILING PANELS; STEEL ACCESSORIES, FLASHINGS, SOFFITS, CLOSURE TRIMS, SEALANTS, ETC AS REQUIRED FOR A WEATHERPROOF INSTALLATION AS ILLUSTRATED ON THE DRAWINGS. ALL METAL COMPONENTS TO BE FACTORY FINISHED AS DESCRIBED HEREIN.

b. PROVIDE TWO YEAR MFR'S WARRANTY FROM DATE OF COMPLETION FOR ANY COMPONENTS OF THE METAL PANEL SYSTEMS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN THE WARRANTY

PROVIDE 30 YEAR WARRANTY FROM DATE OF COMPLETION FOR PANEL FINISHES. MFR AGREES TO REPAIR THE FINISH OR REPLACE METAL PANELS THAT SHOW EVIDENCE OF DETERIORATION OF FACTORY-APPLIED FINISHES WITHIN THE SPECIFIED WARRANTY PERIOD. d. METAL PANEL TESTING REQMTS:

I. WIND LOAD AS REQD BY CODE - ASTM EI592. MAX WIND LOAD DEFLECTION = 1/180 OF 2. AIR INFILTRATION OF NOT MORE THAN 0.06 CFM/SF - ASTM E 283 AT TEST PRESSURE DIFF

OF 6.24 LBF/SF. 3. ZERO WATER PENETRATION - ASTM E 33I AT TEST PRESSURE DIFF OF 6.24 LBF/SF 4. FIRE RESISTANCE RATING - ASTM E 119. e. PANELS ARE TO ALLOW FOR THERMAL MOVEMENTS FROM AMBIENT AND SURFACE

TEMPERATURE CHANGES IN ORDER TO PREVENT BUCKLING, OPENING OF JOINTS, OVERSTRESSING OF COMPONENTS, FAILURE OF JOINT SEALANTS, FAILURE OF CONECTIONS AND OTHER DETERIMENTAL EFFECTS. f. FABRICATION:

I. FABRICATE AND FINISH PANELS AT FACTORY, AS NECESSARY TO FULFILL TESTING REQMTS 2. PROVIDE PANEL PROFILE, INCLUDING MAJOR RIBS AND INTERMEDIATE STIFFENING RIBS FOR FULL LENGTH OF PANEL.

3. FABRICATE METAL PANEL JOINTS WITH FACTORY-INSTALLED CAPTIVE GASKETS OR SEPERATOR STRIPS THAT PROVIDE A WETHERTIGHT SEAL AND PREVENT METAL TO METAL CONTACT AND THAT MINIMIZE NOISE FROM MOVEMENTS 4. FABRICATE FLASHING AND TRIM TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS

AND RECOMMENDATIONS IN SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" THAT APPLY TO DESIGN, DIMENSIONS, METAL AND OTHER CHACTERISTICS OF ITEM INDICATED. FINISHES - ALL PANELS AND ACCESSORIES: THREE COAT FLUOROPOLYMER: AAMA 621. FLUOROPOLYMER FINISH CONTAINING NOT LESS THAN TO % PYDF RESIN BY WEIGHT IN BOTH COLOR-COAT AND CLEAR TOP-COAT.

2. COLORS AS SELECTED BY THE ARCHITECT FROM THE MFR'S FULL RANGE OF STANDARD 3. SILICONIZED POLYESTER: EPOXY PRIMER AND SILICONE-MODIFIED, POLYESTER-ENAMEL TOPCOAT; WITH A DRY FILM THICKNESS OF NOT LESS THAN 0.2 MIL FOR PRIMER AND 0.8 MIL FOR TOPCOAT.

4. CONCEALED FINISH: WHITE OR LIGHT COLORED ACRYLIC OR POLYESTER BACKER FINISH. PRODUCTS I. PROVIDE FACTORY FORMED STEEL PANELS DESIGNED TO BE FIELD ASSEMBLED BY LAPPING SIDE EDGES OF ADJACENT PANELS AND MECHANICALLY ATTACHING PANELS TO

SUPPORTS USING EXPOSED FASTENERS IN SIDE LAPS. INCLUDE ACCESSORIES REQUIRED FOR WEATHERTIGHTINSTALLATION. 2. EXTERIOR WALL AND ROOF PANELS TO BE 24" WIDE (MIN), 26 GA, WITH 1/6" HIGH RAISED TAPERED TRAPEZOIDAL MAJOR RIBS AT 9" O.C. AND INTERMEDIATE STIFFENING RIBS

SYMMETRICALLY SPACED BETWEEN MAJOR RIBS. 3. INTERIOR CEILING (LINER) PANELS TO BE 16" WIDE, 29 GA, PERFORATED FOR SOUND CONTROL, WITH 1/6" HIGH RAISED TAPERED TRAPEZOIDAL MAJOR RIBS AT 4" O.C. AND INTERMEDIATE STIFFENING RIBS SYMMETRICALLY SPACED BETWEEN MAJOR RIBS, WITH 4 MIL VAPOR BARRIER ADHERED TO BACKSIDE.

4. ALL PANELS TO BE FORMED FROM ZING-COATED (GALVANIZED) STEEL SHEET COMPLYING WITH ASTM A653 / A653M, 690 (Z2T5) COATING DESIGNATION, OR ALUMINUM-ZINC ALLOY-COATED STEEL SHEET COMPLYING WITH ASTM A729 / A729M, CLASS AZ50 (CLASS AZMI50) COATING DESIGNATION, STRUCTURAL QUALITY. PREPAINTED TY THE COIL-COATING

PROCESS TO COMPLY WITH ASTM A755 / A755M. PROVIDE ACCESSORY COMPONENTS AS REQUIRED FOR A COMPLETE, WEATHERTIGHT PANEL SYSTEM INCLUDING TRIM, COPINGS, FASCIA, RAKES, EAVES, MULLIONS, SILLS, CORNER UNITS, CLIPS, FLASHINGS, SEALANTS, GASKETS, FILLERS, AND SIMILAR ITEMS. MATCH MATERIAL AND FINISH OF METAL PANELS UNLESS OTHERWISE INDICATED.

 PROVIDE METAL BACKING PLATES AT PANEL END SPLICES, FABRICATED FROM MATERIAL RECOMMENDED BY MFR. 2. PROVIDE CLOSED-CELL, EXPANDED, CELLULAR, RUBBER OR CROSSLINKED, POLYOLEFIN-FOAM OR CLOSED-CELL LAMINATED POLYETHYLENE; MINIMUM I" THICK, FLEXIBLE CLOSURE STRIPS; CUT OR PREMOLDED TO MATCH METAL PANEL PROFILE.

PROVIDE CLOSURE STRIPS WHERE INDICATED OR NECESSARY TO ENSURE WEATHERTIGHT CONSTRUCTION. 3. PANEL FASTENERS TO BE SELF-TAPPING SCRES DESIGNED TO WITHSTAND DESIGN LOADS. PROVIDE EXPOSED FASTENERS WITH HEADS MATCHING COLOR OF PANELS BY MEANS OF PLASTIC CAPS OR FACTORY-APPLIED COATING. PROVIDE EPDM OR PVC SEALING

WASHERS FOR EXPOSED FASTENERS. PROVIDE PANEL SEALANT TYPES AS RECOMMENDED BY MFR THAT ARE COMPATIBLE WITH PANEL MATERIALS, ARE NON-STAINING AND DO NOT DAMAGE PANEL FINISH.

I. COLORS OF ALL EXPOSED SEALANTS AS SELECTED. k. Install panels and associated items true to line, with gasketed fasteners bearing ON WEATHER SIDE OF PANES IN UNIFORM VERTICAL AND HORIZONTAL ALIGNMENT AND SPACING AS RECOMMENDED BY MANUFACTURER. INSTALL SCREW FASTENERS USING PROPER TOOLS HAVING CONTROLLED TORQUE ADJUSTED TO OBTAIN CONTROLLED UNIFORM COMPRESSION FOR POSITIVE SEAL WITHOUT RUPTURE OF WASHER OR DAMAGE TO SCREW THREADS OR DAMAGE TO PANEL. ALL SCREWS TO BE INSTALLED IN PREDRILLED HOLES.

I. PROVIDE SEALANT OR TAPE BETWEEN PANELS AND PROTRUDING EQUIPMENT, VENTS AND

ACCESSORIES. NEST PANEL SPLICES WITH MIN 6" END LAP, SEALED WITH SEALANT AND FASTENED TOGETHER BY INTERLOCKING CLAMPING PLATES. PROVIDE NEAT AND WEATHER-TIGHT ENCLOSURE. 2. INSTALL ALL ACCESSORIES WITH POSITIVE ANCHORAGE TO BUILDING AND WEATHER-TIGHT

MOUNTING. PROVIDE FOR THERMAL EXPANSION. COORDINATE INSTALLATION WITH FLASHINGS AND OTHER COMPONENTS. 3. FLASHING AND TRIM INSTALLATION TO COMPLY WITH MFR'S WRITTEN INSTALLATION INSTRUCTIONS AND SMACNA'S " ARCHITECTURAL SHEET METAL MANUAL." PROVIDE CONCEALED FASTENERS WHERE POSSIBLE. PROVIDE PERMANENTLY WATERTIGHT Installation.

0716. FURNISH AND INSTALL VINYL SIDING MATERIALS AND REQUIRED ACCESSORIES WHERE INDICATED. a. SIDING AND ACCESSORIES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D3674

b. INSTALL SIDING, ACCESSORIES, TRIMS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S - WRITTEN INSTALLATION INSTRUCTIONS AND ASTM D4746 REQUIREMENTS.

I. SIDING PANEL: 0.046 INCHES MINIMUM SIMILAR TO CERTAINTEED'S "MONOGRAM 46". 2. SOFFIT PANEL: 0.040 INCHES MINIMUM SIMILAR TO CERTAINTEED'S "UNIVERSAL".

a) INSTALLATION: ALTERNATE SOLID AND PERFORATED PANELS. d. MANUFACTURER: ALCOA (MASTIC) ALSIDES, CERTAINTEED, CRANE, ONENG-CORNING, OR OWNER APPROVED EQUAL.

e. SIZE, COLOR, STYLE, AND TEXTURES AS SELECTED BY OWNER.

b. TESTED AND LABELED IN ACCORDANCE WITH ASTM CIIBO.

PROVIDE THE FIBER CEMENT (CEMENTITIOUS) LAP SIDING SYSTEM OVER WOOD FRAMED EXTERIOR WALLS AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES FRIEZE BOARDS, TRIMS, FLASHINGS, SEALANTS AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE, WEATHER-TIGHT SYSTEM.

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

c. MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, CERTAINTEED CORP. I. LAP SIDING: FACTORY APPLIED ACRYLIC PRIMER; IN COMPLIANCE WITH ASTM CII86, TYPE A, GRADE II; ASTM EI36 FOR NON-COMBUSTIBLE MATERIAL; ASTM E84 FLAME SPREAD INDEX O; SMOKED DEVELOPED INDEX 5; TEXTURE AS SELECTED BY THE OWNER OR THE OWNER'S

REPRESENTATIVE. 2. TRIMS: FACTORY APPLIED ACRYLIC PRIMER; MANUFACTURED FROM THE SAME MATERIAL AS THE LAP SIDING. 3. STARTER STRIP: FACTORY APPLIED ACRYLIC PRIMER; MANUFACTURED FROM THE SAME

MATERIAL AS THE LAP SIDING. 4. FLASHING: WHERE REQUIRED BY THIS MANUFACTURER'S PRINTED SPECIFICATIONS AND INSTALLATION INSTRUCTIONS; REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS: 5. WOOD FRAMING FASTENER: CORROSION RESISTANT NAILS RECOMMENDED BY THE

MANUFACTURER, REFER TO THE STRUCTURAL DRAWINGS FOR WIND RESISTANCE REQUIREMENTS, 6. WATER RESISTANT BARRIER: REFERENCE SECTION 0710 THIS DIVISION. 1. SEALANT: REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS; AS RECOMMENDED BY THE

RECOMMENDED BY THE MANUFACTURER. e. EXPOSURE: SIX INCHES.

F. ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. g. P<del>rovide Manufacturer's warranty against defects in Material and Workmanship for a</del>

8. TOP COAT IN ACCORDANCE WITH DIVISION OF THESE CENERAL NOTES AND AS

h. PROVIDE EXPANSION JOINTS IN LOGATIONS RECOMMENDED BY THE MANUFACTURER. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN FIVE YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE OF THIS

PRIOR TO THE COMMENCEMENT OF WORK, PROVIDE A MOCK-UP OF THE SYSTEM FOR APPROVAL BY THE ARCHITECT, AND IF REQUESTED, THE MANUFACTURER. MOCK-UP IS TO INCLUDE AN INSIDE GORNER, AN OUTSIDE CORNER, PENETRATION AND A TERMINATION AT DISSIMILAR MATERIAL. THE

0718. FURNISH AND INSTALL FACTORY FORMED AND PAINTED, "V" GROOVED ALUMINUM, SOLID AND PERFORATED, SOFFIT PANELS, "RIBBED" ALUMINUM FASCIA PANELS AND ACCESSORIES AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INSTALL PANELS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND DETAILS.

a. PANELS AND ACCESSORIES SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS: I. ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION (AAMA) SPECIFICATIONS 1402 STANDARD SPECIFICATIONS FOR ALUMINUM SIDING, SOFFIT AND FASCIA.

2. ASTM B209. b. SOFFIT PANEL, HI-TENSILE: DOUBLE 6 INCH

I. DIMENSIONS: 12 INCH EXPOSED WIDTH BY 144 INCHES LONG 2. THICKNESS: 0.016

PROFILE: V-GROOVE FORMING TWO 6 INCHES WIDE PANELS

MOCK-UP, IF APPROVED, MAY BE INCORPORATED IN THE WORK.

SURFACE: SMOOTH

5. PERFORATED, NET FREE OPEN AREA: 7.2 SQUARE INCHES/LINEAR FOOT FINISH: POLYESTER THERMOSET COATING CURED AT 450 DEGREES F. c. FASCIA PANEL

I. DIMENSIONS: REQUIRED HEIGHT BY 150 INCHES LONG 2. PROFILE: ANGLE SHAPE WITH I INCH ATTACHMENT FLANGE ALONG BOTTOM AND THREE EQUALLY SPACE RIBS ON FACE

3. SURFACE: SMOOTH 4. FINISH: POLYESTER THERMOSET COATING CURED AT 450 DEGREES F. d. TRIM I. CONSISTENT WITH SHAPE, SIZE AND PROPERTIES AS REQUIRED FOR COMPLETE INSTALLATION.

2. PRODUCED FROM THE SAME COMPOUND MATERIALS AND WITH COMPARABLE PROPERTIES AS 3. COLOR: MATCH COLOR OF SOFFIT SELECTED.

d. MANUFACTURER: ALCOA, ALSCO, ALSIDES, REYNOLDS, OR EQUAL. e. COLOR SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. 0719. PROVIDE FACTORY FINISHED SEAMLESS GUTTERS AND DOWN-SPOUTS AS SHOWN ON THE DRAWINGS.

AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, HANGERS, END CAPS, OUTLET TUBES, DOWN-SPOUT BOOTS, SEALANTS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

a. INSTALL AND SUPPORT GUTTER AND DOWN-SPOUTS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND S.M.A.C.N.A. DETAILS. b. ALL GUTTER WORK SHALL BE JOINED, OVERLAPPED AND SEALED AS REQUIRED TO PRODUCE A

WATERTIGHT SYSTEM. c. SLOPE AT I/4 INCH PER TEN FEET.

d. MATERIAL I. ALUMINUM SHEET: ASTM B209, AAMA 2605; HEMMED EDGES; WITH FACTORY APPLIED BAKED-ON EPOXY PRIMER COAT, MINIMUM DRY FILM THICKNESS 0.2 MIL; WITH TWO COAT FLUOROPOLYMER COATING CONTAINING NOT LESS THAN 70 PERCENT PVDF RESINS BY WEIGHT IN COLOR COAT, TOTAL MINIMUM DRY FILM THICKNESS I.2 MIL; COLOR AS SELECTED BY THE OWNER FROM MANUFACTURER'S STANDARD; SHOP OR FIELD FORMED TO THE SHAPE INDICATED; LAPPED JOINTS WITH SEALANT.

2. GUTTER BRACKET: CONCEALED; MILL-FINISHED ALUMINUM ATTACHED WITH GALVANIZED OR SERIES 300 STAINLESS STEEL WOOD SCREW; SPACED NO MORE THAN 36 INCHES APART. 3. 4 INCH GUTTER: STYLE K; MINIMUM 0.032 INCHES THICK. 4. 6 INCH GUTTER: STYLE OG; MINIMUM 0.040 INCHES THICK.

6. FURNISH EXPANSION SLEEVE EVERY 50 LIN. FT. OF GUTTER LENGTH, INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. 7. SEALANT: AS RECOMMENDED BY THE ALUMINUM SHEET MANUFACTURER.

5. 2x4 (NOM.) AND 3x5 (NOM.), DOWNSPOUT: MINIMUM 0.024 INCHES THICK.

8. MANUFACTURER, ALUMINUM SHEET: ALCOA, WOLVERINE, ALSIDE OR APPROVED EQUAL. 9. COLOR SELECTED BY OWNER OR ARCHITECT. e. CONNECT DOWN-SPOUTS TO FACTORY FORMED PYC "DRAIN-BOOTS" TIED TO UNDERGROUND

STORM DRAINAGE PIPING SYSTEM; ROOF DRAINAGE SYSTEM TO BE IN ACCORDANCE WITH AHJ.

0720. PROVIDE AND INSTALL A FACTORY FORMED AND FINISHED SNAP-TIGHT COPING ASSEMBLY WHERE a. FURNISH DESIGN TO SEAL THE TOP OF PARAPET WALLS WITH CONCEALED FASTENERS.

b. THE COPING SHALL BE A SNAP-TIGHT TYPE SYSTEM COMPLETE WITH ALL ACCESSORIES.

I. THE COPING SHALL BE 0.080 IN. THICK, SMOOTH 3003-HI4 ALLOY ALIMINUM 2. FURNISH IN MINIMUM LENGTHS OF IO'-O" WITH 8 IN, WIDE CONCEALED JOINT COVERS AND 12 IN, WIDE 20 8-GUAGE GALVANIZED ANCHOR PLATES SPACED 5'-O" O.C.

- 3. SUPPLY COPING WITH BUTYL STRIPS TO FORM AN INTERNAL CUTTER SYSTEM 4. ALL EXPOSED ALUMINUM SHALL HAVE A FACTORY APPLIED PAINTED FINISH. a) color as selected by owner. 5. ALL CORNERS TO BE FULLY WELDED.

C. MANUFACTURES I. ARCHITECTURAL PRODUCTS CO., FIRESTONE BUILDING PRODUCTS CO., PETERSEN ALUMINUM CORP., OR SOUTHERN ALUMINUM FINISHING CO. d. INSTALLATION

- I. INSTALL THE SNAP-TIGHT COPING ASSEMBLY IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DETAILS AND INSTALLATION PROCEDURES.

0721. PROVIDE SELF-ADHERING, DRAINABLE, SHEET WATERPROOFING SYSTEM FOR BELOW GRADE CONCRETE MASONRY UNIT AND / OR CAST-IN-PLACE CONCRETE FOUNDATION WALLS.

a. MATERIAL SHALL BE IN ACCORDANCE WITH ASTM D412, ASTM D570, ASTM E154 AND ASTM D

b. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. MATERIAL

I. MEMBRANE: BITUTHENE SYSTEM; O.O56 INCHES THICK, SELF-ADHESIVE, COLD APPLIED COMPOSITE SHEET AND O.OO4 INCHES THICK CROSS LAMINATED, HIGH DENSITY POLYETIMLENE FILM FOR A TOTAL THICKNESS OF 0.060 INCHES; FORMULATED FOR USE WITH WATER-BASED SURFACE CONDITIONERS, INCLUDES A RELEASE SHEET, REQUIRES NO SPECIAL <del>ADHESIVE OR HEAT IN ORDER TO FORM LAPS.</del>

 PREFABRICATED DRAINAGE COMPOSITE: MINIMUM 3/8 INCHES THICK; TENSILE STRENGTH 325 PSI; ULTIMATE ELONGATION 300 PERCENT; PUNCTURE RESISTANCE MINIMUM 50 LB; WATER ABSORPTION MAXIMUM O.OI PERCENT INCREASE IN WEIGHT AT 24 HOUR IMMERSION; DESIGNED TO PROMOTE POSITIVE DRAINAGE WHILE SERVING AS A PROTECTION COURSE.

4. PROTECTION BOARD: EXPANDED POLYSTYRENE; MINIMUM ONE INCH THICK; DENGITY 1.0 PCF;

TERMINATION BAR: GALVANIZED STEEL; ONLY THAT WHICH IS SPECIFIED AND ACCEPTED BY THE MEMBRANE MANUFACTURER.

<del>THERMAL RESISTANCE 4 PER ONE INCH THICKNESS</del> ACCESSORIES: AS SPECIFIED AND ACCEPTED BY THE MEMBRANE MANUFACTURE; FLASHINGS; SURFACE PRIMERS AND CONDITIONERS; MASTICS; LIQUID MEMBRANE; SEALANTS.

d. MANUFACTURERS

I. CHEMREX, INC. 2. <del>SONNEBORN BUILDING PRODUCTS</del>

3. <del>EUCLID CHEMICAL CO.</del> 4. W. R. GRACE & CO. 5. AMERICAN HYDROTECH, INC.

6. AMICAN PERMAQUIK INC. CARLISLE COATINGS & WATERPROOFING INC.

8. GETGO BUILDING MATERIALS GROUP 9. HENRY COMPANY IO. TAMKO ROOFING PRODUCTS, INC.

MEMBRANE MANUFACTURER.

PREPARATION OF SUBSTRATE

(NRCA) "WATERPROOFING AND DAMP-PROOFING MANUAL".

. CLEAN OFF PROJECTIONS AND SUBSTANCES DETRIMENTAL TO WORK. COMPLY WITH RECOMMENDATIONS OF THE MEMBRANE MANUFACTURER. 3. FILL VOIDS, SEAL JOINTS AND APPLY BOND BREAKERS AS RECOMMENDED BY THE

4. PRIME SUBSTRATE AS RECOMMENDED BY THE MEMBRANE MANUFACTURER. INSTALLATION CONFORM TO THE REQUIREMENTS OF THE NATIONAL ROOFING CONTRACTOR ASSOCIATION

 SHALL NOT PROCEED UNTIL CONCRETE AND/OR CMU HAS PROPERLY CURED AND DRIED. 3. APPLY THE SELF-ADHERING MEMBRANE WITH A MECHANICAL ROLLER TO ENGOURAGE FULL BOND CONTACT.

4. OVERLAY EDGES AND ENDS AND SEAL BY THE METHOD RECOMMENDED BY THE MEMBRANE 5. LAP JOINTS ON SLOPED SUBSTRATE IN THE DIRECTION OF DRAINAGE.

1. WRAP AND SEAL PENETRATIONS BY THE METHOD RECOMMENDED BY THE MEMBRANE

0722. ALL EXTERIOR FASTENERS SHALL BE NON-STAINING, NON-CORROSIVE AND COLOR MATCH FACTORY FINISHES AS REQUIRED.

6. PROVIDE TERMINATION BAR AND COUNTER-FLASHING AT ALL EDGES.

0723. PROVIDE POLYETHYLENE MOISTURE RETARDER OVER UNFACED THERMAL INSULATION AND BELOW CONCRETE SLAB-ON-GRADE AS INDICATED ON THE DRAWINGS.

I. CONCRETE SLAB-ON-GRADE: 6 MIL; ASTM E1745; CLASS A; MAXIMUM PERMEANCE RATING OF 2. THERMAL INSULATION: 6 MIL; ASTM CII36 AND ASTM D4397; INSTALLATION IN ACCORDANCE

b. AT THERMAL INSULATION, SEAL ALL JOINTS USING PRESSURE SENSITIVE TAPE RECOMMENDED BY SEAL ALL PENETRATIONS USING MASTIC TYPE MATERIAL RECOMMENDED BY THE MANUFACTURER. d. JOINT OVERLAP AT WALLS SHALL BE A MINIMUM OF 32 INCHES FOR STUDS SET AT 16 INCHES ON

h. At Slab-on-grade, replace sheets that are torn, punctured or other similar damage.

CENTER AND 24 INCHES FOR STUDS SET AT 24 INCHES ON CENTER AND ARE TO BE LOCATED OVER FRAMING MEMBERS. e. JOINT OVERLAP AT SLAB-ON-GRADE SHALL BE MINIMUM OF 24 INCHES.

WITH ASTM CII36; MAXIMUM PERMEANCE RATING OF 0.06.

F. PLACEMENT, PROTECTION AND REPAIR SHALL COMPLY WITH ASTM E1643. q. At thermal insulation, repair tears and punctures with another layer of material SPANNED BETWEEN WALL AND CEILING FRAMING MEMBERS

Q 

facsimile: (740) 654-3009 All drawings are and shall be the proper

426 EAST MAIN STREET

LANCASTER, OHIO 43130

COMMISSION

ISSUE MARK DATE 4-5-21 ADDENDUM 2

DRAWN BY: NJP, SML

Stephen M. Luchtenberg License No. 8546

Expiration Date: December 31, 2021

**GENERAL NOTES** 

STEPHEN

LUCHTENBERG

8546

DIVISION 7 **THROUGH DIVISION** 7 DRAWING NUMBER

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phone: (740) 654-4048 of VPL Architects, Inc., and may not be used, duplicated, or altered mithout th written consent of the Architect

a. PROVIDE JOINT SEALANTS, BACKINGS AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY THE MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

b. Material I. ACRYLIC LATEX (5-1): ASTM C834 AND ASTM C1520; SINGLE-COMPONENT ACRYLIC EMULSION OR LATEX RUBBER MODIFIED ACRYLIC EMULSION: PERMANENTLY FLEXIBLE: NON-STAINING: NON-BLEEDING; COMPATIBLE WITH PAINT FINISHES; MAXIMUM VOC 50 G/L; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD.

a) TREMFLEX 834, TREMCO, INC; AC-20, PECORA CORP; 950A, SHERWIN-WILLIAMS CO. 2. SILICONE (5-2): ASTM C920; SINGLE-COMPONENT SILICONE RUBBER BASED ELASTOMERIC; PERMANENTLY FLEXIBLE: NON-STAINING: NON-BLEEDING: MOLD AND MILDEW RESISTANT: NEUTRAL CURING; GRADE NS, CLASS 25 OR 50; MAXIMUM VOC 50 G/L; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD. a) PECORA 898, PECORA CORP; SILICONE PLUS, DAP PRODUCTS, INC; SIKASIL N PLUS, SIKA

3. SILICONE (5-3): ASTM C920; SINGLE-COMPONENT; NEUTRAL CURING; GRADE NS; CLASS 100 OR 50: EXPOSURE USE T; NON-STAINING; NON-BLEEDING; SHORE A HARDNESS MINIMUM 25, MAXIMUM 50; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD.

a) SIKASIL-728 NS T, SIKA CORP 4. POLYURETHANE (5-4): ASTM C920; SINGLE OR MULTI COMPONENT; NEUTRAL CURING; GRADE P AND NS; EXPOSURE USE T, NT, G, A, AND O; CLASS AS SPECIFIED BY THE MANUFACTURER FOR THE MATERIAL(S) BEING SEALED; NON-STAINING; NON-BLEEDING; SHORE A HARDNESS MINIMUM 15, MAXIMUM 50 OR AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIED INSTALLATION; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD. a) SIKAFLEX-Ia, SIKA CORP.

5. ACOUSTIC (S-5): ASTM C834 AND ASTM C919; SINGLE-COMPONENT ACRYLIC EMULSION; PERMANENTLY FLEXIBLE; NON-STAINING; NON-BLEEDING; MAXIMUM VOC 50 G/L. a) SHEETROCK BRAND ACOUSTICAL SEALANT, USG CORP.; OR APPROVED EQUAL

6. MISCELLANEOUS (S-6): ASTM C920; SINGLE COMPONENT; GRADE NS; CLASS 50; EXPOSURE USE NT; NON-STAINING; NON-BLEEDING; SHORE A HARDNESS MINIMUM 25, MAXIMUM 50. a) OSI QUAD MAX, HENKEL CORP.

7. JOINT BACKER: ASTM CI330, TYPE C: NON-STAINING: COMPRESSIBLE: CLOSED-CELL POLYETHYLENE FOAM; COMPATIBLE WITH JOINT SUBSTRATE, PRIMERS AND SEALANTS AND APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD

EXPERIENCE AND LABORATORY TESTING. 6. BOND BREAKER: POLYETHYLENE OR OTHER PLASTIC TAPE; TYPE AND LOCATION AS RECOMMENDED BY THE SEALANT MANUFACTURER.

9. PRIMER: SIKASIL PRIMER-2100, SIKA CORP IO. CLEANERS: TYPE AND LOCATION AS RECOMMENDED BY THE SEALANT MANUFACTURER. c. JOINT WIDTH IN COMPLIANCE WITH ASTM C1472.

d. INSTALLATION ALL SEALANT SHALL BE INSTALLED BY A PROFESSIONAL INSTALLER THAT IS APPROVED BY THE SEALANT MANUFACTURER, HAVING NO LESS THAN FIVE YEARS OF DOCUMENTED EXPERIENCE IN THE APPLICATION OF JOINT SEALANTS. SEALANT INSTALLED BY LABORERS

IS NOT ACCEPTABLE. 2. SEALANTS AND CAULKS SHALL BE INSTALLED SO AS TO MAINTAIN A CONTINUOUS INSECT, WATER AND AIRTIGHT SEAL.

5-I COSMETIC JOINTS AT GYPSUM BOARD: NOT EXCEEDING 1/4 INCH WIDE; ALL HOLLOW METAL FRAMES; ALL ALUMINUM FRAMES, HVAC GRILLES AND LOUVERS, ACCESS PANELS, SUSPENDED CEILING WALL ANGLE, FIRE EXTINGUISHER CABINETS, AND OTHER RECESSED AND SEMI-RECESSED CABINETS, WINDOWS, WINDOW STOOLS AND CASINGS, CASEWORK; COUNTERTOP BACK-SPLASH; EXPOSED, NON-FIRE-RATED PENETRATIONS; TOILET ACCESSORIES; INTERIOR AIR TIGHTNESS AT WINDOWS, DOORS AND WALL INTERSECTIONS PRIOR TO THE INSTALLATION OF VAPOR RETARDER.

2. S-2 SANITARY JOINTS: COUNTERTOP AT BACK-SPLASH; PLUMBING FIXTURES AT FLOOR AND WALL; PLUMBING FIXTURE FLANGE AT COUNTERTOP; PLUMBING PIPE PENETRATION AT WALL; UNDERSIDE OF EXTERIOR DOOR THRESHOLDS: CONCEALED, INTERIOR SIDE OF NON-FIRE-RATED PENETRATIONS THROUGH EXTERIOR WALLS; GLASS FIBER REINFORCED PANEL MOLDING

 S-3 EXTERIOR JOINTS: UNDERSIDE OF EXTERIOR DOOR THRESHOLDS; ISOLATION, CONTROL AND EXPANSION JOINTS AS RECOMMENDED BY MANUFACTURER; CONCEALED, INTERIOR INTERIOR SIDE OF NON-FIRE-RATED PENETRATIONS THROUGH EXTERIOR WALLS; EXTERIOR INSULATION FINISH SYSTEMS (EIFS) AS APPROVED FOR USE BY THE EIFS MANUFACTURER.

 5-4 EXTERIOR JOINTS (EXPOSURE USE NT): JOINTS AT CONCRETE AND MASONRY WALLS; LOUVERS; WINDOWS; DOOR FRAMES; FLASHING REGLETS; FIBER CEMENT SIDING; EIFS AS APPROVED FOR USE BY THE EIFS MANUFACTURER: DECORATIVE TRIMS: SOFFIT PANELS: VERTICAL ISOLATION, CONTROL AND EXPANSION JOINTS; EXPOSED NON-FIRE-RATED PENETRATIONS THROUGH EXTERIOR WALLS.

5. <u>5-4</u> EXTERIOR JOINTS (EXPOSURE T): CONCRETE PAVING; SIDEWALKS; ISOLATION, CONTROL, AND EXPANSION JOINTS. a) CONCRETE PAVING AT ASPHALT PAVING: EMULSIFIED PAVEMENT CRACK SEALER;

REFERENCE DIVISION 32 OF THE GENERAL NOTES. 6. S-5 SOUND CONTROL ACOUSTIC: UNDERSIDE OF WALL SILL PLATE; PENETRATIONS THROUGH NON-RATED WALLS AND GYPSUM BOARD CEILINGS; GAP BETWEEN GYPSUM BOARD AND

7. <u>S-6</u> VINYL WINDOWS, VINYL CLAD OR ALUMINUM CLAD WOOD WINDOW INSTALLATION. F. SEALANTS AT NEW CONCRETE SHALL NOT BE INSTALLED EARLIER THAN 30 DAYS FROM THE DATE OF THE POUR/APPLICATION.

REFERENCE NCMA TEK 19-6A FOR ADDITIONAL MASONRY SEALANT REQUIREMENTS. ALL PRODUCTS SHALL BE FROM THE SAME SUPPLIER, THE SAME MANUFACTURER OF EACH TYPE

0725. FURNISH AND INSTALL ALL NEGESSARY MATERIALS INCLUDING INTUMESCENT WRAP, RESTRICTING <del>COLLARS, AND CAULK REQUIRED TO FIRE PROOF SEAL ALL OPENINGS INCLUDING PENETRATIONS OF</del> <del>PIPES, CABLES AND CONDUITS, IN FIRE RATED WALL, CEILING AND FLOOR ASSEMBLIES.</del> a. USE ONLY MATERIALS CLASSIFIED BY UL TO PROVIDE FIRE STOPPING EQUAL TO TIME RATING OF

CONSTRUCTION ASSEMBLY BEING PENETRATED. FURNISH ASBESTOS FREE MATERIALS AS TESTED IN ACCORDANCE WITH UL 1479 AND ASTM E814. b. FIRE BARRIER MATERIALS. 

———— 2. CYPSUM BOARD WALLS AND CEILINGS: 3M CERAMIC MATERIALS DEPARTMENT MPWI25.01

- SEALANT 2000 (NON-SLUMP) MANUFACTURED BY DOW CORNING CORP.; EQUAL BY HILTI CONSTRUCTION CHEMICALS.

------3. INTUMESCENT WRAP/STRIP: 3M, FIRE BARRIER FS-145; EQUAL BY HILTI CONSTRUCTION CHEMICALS

4. RESTRICTING COLLARS: 3M, FIRE BARRIER RC-I, 30 GAUGE, GALVANIZED STEEL; EQUAL BY HILTI CONSTRUCTION CHEMICALS. 5. FIRE BARRIER CAULK: 3M, CP 25 N/S AND CP 225 L ACCORDING TO APPLICATION; EQUAL

BY HILTI CONSTRUCTION CHEMICALS. c. SEAL PENETRATIONS AGAINST THE PASSAGE OF FIRE, SMOKE OR OTHER GASES. INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS.

0800. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THESE GENERAL NOTES.

a. HOLLOW METAL DOOR

b. HOLLOW METAL DOOR FRAME c. ALUMINUM ENTRY AND WINDOW SYSTEMS

DIVISION 8 - OPENINGS

d. FLASHING AND DETAILS e. ACCESS PANELS f. FINISH HARDWARE

q. UPWARD ACTING OVERHEAD DOORS

0801. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

a. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)/STEEL DOOR INSTITUTE (SDI) ANSI/SDI II2, ZINC-COATED (GALVANIZED/GALVANNEALED) STEEL DOORS AND FRAMES 2. ANSI/SDI 122, INSTALLATION AND TROUBLESHOOTING GUIDE FOR STANDARD STEEL DOORS AND

3, ANSI/SDI A250.6, RECOMMENDED PRACTICES FOR HARDWARE REINFORCING ON STANDARD STEEL DOORS AND FRAMES 4. ANSI/SDI A250.8, SPECIFICATIONS FOR STEEL DOORS AND FRAMES

5. ANSI/SDI A250.10 TEST PROCEDURES AND ACCEPTANCE CRITERIA FOR PRIME PAINTED STEEL SURFACES FOR STEEL DOORS AND FRAMES

6. ANSI/SDI A250.II, RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES b. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) I. ANSI Z97.I, SAFETY GLAZING MATERIAL USED IN BUILDINGS - SAFETY PERFORMANCE

SPECIFICATIONS AND METHODS OF TEST c. CODE OF FEDERAL REGULATIONS (CFR)

I. 16 CFR 1201, SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS d. ARCHITECTURAL WOODWORK INSTITUTE (AWI)

I. AWI ARCHITECTURAL WOODWORK STANDARDS e. GLASS ASSOCIATION OF NORTH AMERICA (GANA)

I. GANA GLAZING MANUAL 2. GANA LAMINATED GLAZING REFERENCE MANUAL F. INSULATED GLASS MANUFACTURERS ALLIANCE (IGMA)

IGMA TB-3001, GUIDELINES FOR SLOPED GLAZING 2. IGMA TM-3000, NORTH AMERICAN GLAZING GUIDELINES FOR SEALED INSULATING GLASS UNITS

FOR COMMERCIAL AND RESIDENTIAL USE q. WINDOW AND DOOR MANUFACTURERS ASSOCIATION (WDMA) WDMA I.S. IA. INTERIOR ARCHITECTURAL WOOD FLUSH DOORS

2. WDMA, HOW TO STORE, HANDLE, FINISH, INSTALL AND MAINTAIN WOOD DOORS

3. WDMA T.M. 6, ADHESIVE BOND DURABILITY 4. WDMA T.M. 7, CYCLE SLAM TEST

5. WDMA T.M. 8, HINGE LOADING TEST

6. WDMA T.M. IO. SCREW HOLDING CAPACITY

7. WDMA T.M. 14, CLEAR AND PIGMENTED COATINGS FOR INTERIOR PREFINISHED WOOD 8. WDMA T.M. 15, VERTICAL EDGE IMPACT TEST

h. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

. AAMA/MDMA/CSA IOI/I.S.2/A440, NORTH AMERICAN FENESTRATION STANDARD SPECIFICATION FOR WINDOWS, DOORS AND SKYLIGHTS

2. AAMA 501.2, QUALITY ASSURANCE AND DIAGNOSTIC WATER LEAKAGE FIELD CHECK OF INSTALLED STOREFRONTS, CURTAIN WALLS AND SLOPED GLAZING SYSTEMS I. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM)

I. HMMA 810, HOLLOW METAL DOORS

2. HMMA 820, HOLLOW METAL FRAMES 3. HMMA 831, RECOMMENDED HARDWARE LOCATIONS FOR HOLLOW METAL DOORS AND FRAMES

4. HMMA 840, INSTALLATION AND STORAGE OF HOLLOW METAL DOORS AND FRAMES 5. HMMA 841, TOLERANCES AND CLEARANCES FOR COMMERCIAL HOLLOW METAL DOORS AND

6. HMMA 840 TNOI, PAINTING HOLLOW METAL PRODUCTS . DOOR AND HARDWARE INSTITUTE (DHI)

ABBREVIATIONS AND SYMBOLS

2. DHI AII5 SERIES, SPECIFICATIONS FOR STANDARD STEEL DOOR AND STEEL FRAME PREPARATION FOR HARDWARE 3. RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR FLUSH WOOD DOORS

k. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) . NFPA 70, NATIONAL ELECTRIC CODE

I. BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA) ANSI/BHMA AI56.I, BUTTS AND HINGES 2. ANSI/BHMA AI56.2, BORED AND PREASSEMBLED LOCKS AND LATCHES

3. ANSI/BHMA AI56.3. EXIT DEVICES 4. ANSI/BHMA AI56.4, DOOR CONTROLS-CLOSERS

5. ANSI/BHMA AI56.6, ARCHITECTURAL DOOR TRIM 6. ANSI/BHMA AI56.7, TEMPLATE HINGE DIMENSIONS

7. ANSI/BHMA AI56.8, HOLDERS AND STOPS 8. ANSI/BHMA AI56.16, AUXILIARY HARDWARE

9. ANSI/BHMA AI56.18. MATERIALS AND FINISHES

IO, ANSI/BHMA A156,19, POWER ASSISTANT AND LOW ENERGY POWER OPERATED DOORS

II. ANSI/BHMA AI56.2I, THRESHOLDS 12. ANSI/BHMA AI56.22, DOOR GASKETING AND EDGE SEAL SYSTEMS

13. ANSI/BHMA AI56.115, HARDWARE PREPARATION IN STEEL DOORS OR STEEL FRAMES 14. ANSI/BHMA AI56.II5W, HARDWARE PREPARATION IN WOOD DOORS WITH WOOD OR STEEL

m. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI II7.I, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

n. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) . ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS

2. ASTM A568, STANDARD SPECIFICATION FOR STEEL, SHEET, CARBON AND HIGH-STRENGTH, LOW-ALLOY, HOT-ROLLED AND COLD-ROLLED 3. ASTM A653, STANDARD SPECIFICATION FOR STEEL, SHEET, ZINC-COATED (GALVANIZED) OR

ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS 4. ASTM A780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS

5. ASTM B209, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND 6. ASTM B22I, STANDARD SPECIFICATION FOR ALIMINUM AND ALIMINUM-ALLOY EXTRUDED BARS,

RODS, WIRE, PROFILES AND TUBES 7. ASTM B456, STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF COPPER PLUS NICKEL PLUS CHROMIUM AND NICKEL PLUS CHROMIUM 8. ASTM B633, STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF ZINC ON IRON

9. ASTM C509, STANDARD SPECIFICATION FOR ELASTOMERIC CELLULAR PREFORMED GASKET AND SEALING MATERIAL

IO. ASTM C864, STANDARD SPECIFICATION FOR DENSE ELASTOMERIC COMPRESSION SEAL GASKETS, SETTING BLOCKS AND SPACERS II. ASTM CI036, STANDARD SPECIFICATION FOR FLAT GLASS

12. ASTM CIO48, STANDARD SPECIFICATION FOR HEAT-STRENGTHENED AND FULLY TEMPERED FLAT GLASS 13. ASTM D6386, STANDARD PRACTICE FOR PREPARATION OF ZINC (HOT-DIP GALVANIZED()

COATED IRON AND STEEL PRODUCT AND HARDWARE SURFACES FOR PAINTING 14. ASTM D7396, STANDARD GUIDE FOR PREPARATION OF NEW, CONTINUOUS ZINC-COATED (GALVANIZED) STEEL SURFACES FOR PAINTING

15. ASTM E163, STANDARD METHODS OF FIRE TESTS OF WINDOW ASSEMBLIES 16. ASTM EI300, STANDARD PRACTICE FOR DETERMINING LOAD RESISTANCE OF GLASS IN

17. ASTM E2190, STANDARD SPECIFICATION FOR INSULATING GLASS UNIT PERFORMANCE AND **EVALUATION** 18. ASTM F1941, STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS ON MECHANICAL

0803. PROVIDE DURABLE, WEATHERPROOF, TEMPORARY DOORS AND HARDWARE AS REQUIRED TO SECURE THE BUILDING DURING THE CONSTRUCTION PERIOD.

0804. PROVIDE DURABLE, WEATHERPROOF, TEMPORARY COVERING AT WINDOW OPENINGS AS REQUIRED TO SECURE THE BUILDING AND MAINTAIN CLIMATE CONTROL DURING THE CONSTRUCTION PERIOD.

0805. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

SATISFACTORY PERFORMANCE. 0806. EXIT AND EXIT ACCESS DOORWAYS SHALL CONFORM TO THE REQUIREMENTS OF 2017 OBC CHAPTER IO. HARDWARE FOR DOORWAYS SHALL CONFORM TO THE REQUIREMENTS OF OBC CHAPTER II, AND ANSI/ICC AII7.1-2009.

a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR

0801. PROVIDE FACTORY FABRICATED, FACTORY FINISHED, ALUMINUM-FRAMED MINDOWS AND ENTRANCE <del>System as shown on the drawings and as noted Herein. With components as needed for</del> COMPLETE INSTALLATION, INCLUDES PREPARATION OF THE OPENING FOR INSTALLATION, ALUMINUM FRAMING, INSULATED GLAZING, SEALANTS, GASKETS, WEATHER-STRIPPING, SWEEP, FLASHINGS, THRESHOLD, FASTENERS, HARDWARE AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR AN AIRTIGHT AND WEATHER-TIGHT SYSTEM.

a. SUBMITTAL SHALL INCLUDE: MULLION DETAILS FOR FENESTRATION COMBINATIONS, REINFORCEMENT AND STIFFENERS; 2. SHOP DRAWING DETAILS OF JOINERY, FLASHING AND DRAINAGE, WEATHER-STRIPPING, THERMAL

BREAK AND GLAZING: 3. EXPANSION PROVISIONS:

4. SEALANT: 5. PRODUCT DATA ON ALL COMPONENTS, INCLUDING FINISH HARDWARE, OF THE SYSTEM; 6. SAMPLE, MINIMUM 12 INCHES LONG, OF MAIN FRAMING MEMBER SHOWING WEATHER-STRIPPING,

GLAZING BEAD AND FACTORY APPLIED FINISH; AND 7. SAMPLE, MINIMUM 12 INCHES SQUARE OF INSULATED GLAZING PANEL. b. STRUCTURAL PERFORMANCE:

2. STRUCTURAL-TEST PERFORMANCE: TESTED IN ACCORDANCE WITH ASTM E330

I. REFERENCE THE STRUCTURAL DRAWINGS FOR WIND SPEED, IMPORTANCE FACTOR AND EXPOSURE CATEGORY

a) <del>WHEN TESTED AT POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES, SYSTEM SHALL</del> NOT HAVE EVIDENCE DEFLECTION EXCEEDING SPECIFIED LIMITS b) WHEN TESTED AT 150 PERCENT OF POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES,

STRUCTURAL DISTRESS AND PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS EXCEEDING 0.2 PERCENT OF SPAN. FEET 6 INCHES AND TO 1/240 OF CLEAR SPAN PLUS 1/4 INCH FOR SPANS GREATER THAN 13 FEET

SYSTEM, INCLUDING ANCHORAGE, SHALL NOT HAVE EVIDENCE MATERIAL FAILURES,

6 INCHES OR AN AMOUNT THAT RESTRICTS EDGE DEFLECTION OF INDIVIDUAL GLAZING LITES TO 3/4 INCH, WHICHEVER IS LESS. 4. DEFLECTION PARALLEL TO GLAZING PLANE: LIMITED TO L/360 OF GLEAR SPAN OR I/O INGH,

WHICHEVER IS SMALLER. 5. WIND-BORNE DEBRIS RESISTANCE: DESIGN SYSTEM THAT PASSES LARGE MISSILE-IMPACT AND CYCLIC-PRESSURE TESTS BASED ON THE PASS/FAIL CRITERIA DETERMINED FROM TESTING IN ACCORDANCE WITH ASTM EI886 AND ASTM EI996.

6. THERMAL MOVEMENT: DESIGN SYSTEM TO ALLOW THERMAL MOVEMENT FROM AMBIENT AND SURFACE TEMPERATURE CHANGES AND BASED ON SURFACE TEMPERATURE OF MATERIALS DUE TO SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS; NO BUCKLING, STRESS ON GLASS; <del>SEALANT FAILURE, EXCESS STRESS ON FRAMING, ANCHORS AND FASTENERS OR REDUCTION OF</del> PERFORMANCE WHEN TESTED IN ACCORDANCE WITH AAMA 501.5.

a) TEMPERATURE CHANGE: 120 DEGREES F, AMBIENT; 180 DEGREES F, MATERIAL SURFACES:

b) INTERIOR AMBIENT-AIR TEMPERATURE: 15 DEGREES F. 7. AIR INFILTRATION: MAXIMUM AIR LEAKAGE THROUGH FIXED GLAZING AND FRAMING AREAS OF 0.06 CFM/SQ.FT. OF FIXED WALL AREA WHEN TESTED IN ACCORDANCE WITH ASTM E283 AT A

MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 1.57 LBF/SQ.FT. 8. WATER PENETRATION UNDER STATIC PRESSURE: SHALL NOT EVIDENCE WATER PENETRATION THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT A MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 20 PERCENT OF POSITIVE WIND-LOAD

9. WATER PENETRATION UNDER DYNAMIC PRESSURE: SHALL NOT EVIDENCE WATER LEAKAGE

DESIGN PRESSURE, BUT NOT LESS THAN 6.24 LBF/SQ.FT.

THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED ACCORDING TO AAMA 501,1 UNDER <del>DYNAMIC PRESSURE EQUAL TO 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT</del> LESS THAN 6.24 LBF/SQ.FT.

IO. <del>CONDENSATION RESISTANCE FACTOR: NOT LESS THAN 45 WHEN TESTED IN ACCORDANCE WITH</del> AAMA 1503. II. THERMAL CONDUCTANCE: AVERAGE U-FACTOR OF NOT MORE THAN 0.63 BTU/SQ.FT. x II x DEG F

WHEN TESTED IN ACCORDANCE WITH AAMA 1503. 12. SOUND TRANSMISSION: STG MINIMUM 26 WHEN TESTED FOR LOSS IN ACCORDANCE WITH ASTME 190 AND DETERMINED BY ASTM E413, OITC MINIMUM 26 WHEN TESTED FOR LOSS IN ACCORDANCE WITH ASTM E90 AND DETERMINED BY ASTM E1332.

13. STRUCTURAL SEALANT: CAPABLE OF WITHSTANDING TENGILE AND SHEAR STRESSES IMPOSED BY ALUMINUM-FRAMED SYSTEM WITHOUT FAILING ADHESIVELY OR GOLIESIVELY; JOINTS DESIGNED TO PRODUCE TENSILE OR SHEAR STRESS OF LESS THAN 20 PSI.

 ALLMINUM EXTRUSIONS: ALLOY 6063 T5 TEMPER OR AS RECOMMENDED BY THE SYSTEM MANUFACTURER FOR STRENGTH AND DESIGN SPECIFICATIONS; WITH CORROSION RESISTANT FINISH; WITH THERMAL BREAK; MINIMUM STRUCTURAL WALL THICKNESS OF 0.125 INCHES; SIZE 2 INCHES BY 4-1/2 INCHES; COMPLY WITH ASTM B221 AND AAMA.

2. GLAZING: TEMPERED; INSULATED; BRONZE TINTING AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD; WITH MANUFACTURER'S STANDARD REPLACEABLE INTERIOR GLAZING GASKETS OF THE PROFILE AND HARDNESS REQUIRED TO MAINTAIN WATERTIGHT SEAL: WITH NON-REMOVABLE GLAZING GASKETS ON EXTERIOR: WITH MANUFACTURER'S STANDARD ELASTOMERIG TYPE SPACERS AND SETTING BLOCKS: WITH <del>MANUFACTURER'S STANDARD TFE-FLUOROCARBON OR POLYETHYLENE BOND-BREAKER TAPE.</del> 3. HEADER: SIZED BY THE MANUFACTURER; MINIMUM 0.125 INCH WALL THICKNESS; DESIGNED TO

SUPPORT DOOR OPERATORS AND GLAZING AS SPECIFIED WITHOUT INTERMEDIATE SUPPORTS. a) MANUAL AND AUTOMATIC OPERATOR SWING OPERATIONS. b) <del>Construction: Minimum 0.125 inch wall thickness structural extruded aluminum</del>

TUBULAR RAIL AND STILE MEMBERS; CORNERS MECHANICALLY FASTENED WITH REINFORCING BRACKETS THAT ARE DEEPLY PENETRATED AND FILLET WELDED OR THAT INCORPORATE CONCEALED THE RODS; WITH REINFORGEMENT AS REQUIRED TO SUPPORT LOADS IMPOSED BY DOOR OPERATION AND HARDWARE. c) <del>DESIGN: NARROW STILE 2-1/8 INCHES BY 1-3/4 INCHES; BASE AREA MINIMUM 6 INCHES HIGH.</del>

5. ENTRANCE DOOR HARDWARE (ALSO REFER TO THE FINISH HARDWARE GENERAL NOTES THIS <del>DIVISION)</del>

a) HINGES: NON-REMOVABLE PIN; STAINLESS STEEL WITH STAINLESS STEEL PIN; MINIMUM 3 PER

b) PADDLE AND DEAD-LATCH c) <del>PUSH BAR</del>

a) <del>PULL</del>

e) WIRELESS ACTUATOR SYSTEM

f) AUTOMATIC DOOR OPERATOR a) <del>THRESHOLD: WITH THERMAL BREAK; SET IN FULL SEALANT BED.</del>

1) WEATHER-STRIPPING: FACTORY APPLIED: MANUFACTURER'S STANDARD REPLACEABLE COMPONENTS; COMPRESSION TYPE IN ACCORDANCE WITH ASTM D2000 (MOLDED NEOPRENE)

OR ASTM D2287 (MOLDED PVG). I) SWEEP: CONCEALED; FACTORY APPLIED; MANUFACTURER'S STANDARD REPLACEABLE

6. CONCEALED FLASHING: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH MEMBERS: CORROSION-RESISTANT, NON-STAINING, NON-BLEEDING

 FASTENERS: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH MEMBERS; TRIM, HARDWARE, ANCHORS AND OTHER COMPONENTS OF THE SYSTEM: CORROSION-RESISTANT, NON-STAINING, NON-BLEEDING; USE SELF-LOCKING DEVICES WHERE SUBJECT TO LOOSENING OR TURNING OUT FROM THERMAL AND STRUCTURAL MOVEMENTS, WIND LOADS OR VIBRATION; WHERE EXPOSED, COUNTERSINK PHILLIPS HEAD FINISHED TO MATCH FRAMING; COMPLY WITH AAMA. 8. ANCHORS, CLIPS AND ACCESSORIES: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AND

OF SUFFICIENT STRENGTH TO WITHSTAND DESIGN PRESSURE: COMPLY WITH ASTM B456. REINFORGING MEMBERS: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AND OF SUFFICIENT <del>STRENGTH TO WITHSTAND DESIGN PRESSURE; AS REQUIRED TO RECEIVE FASTENER THREADS;</del> COMPLY WITH AAMA. IO. STRUCTURAL GLAZING SEALANT: ASTM CIIS4: SINGLE COMPONENT, NEUTRAL CURING SILICONE

FORMULATION THAT IS COMPATIBLE WITH SYSTEM COMPONENTS AND IS APPROVED BY THE <del>STRUCTURAL SEALANT MANUFACTURER AND STOREFRONT MANUFACTURER FOR USE ON</del> ALUMINUM-FRAMED SYSTEMS. II. WEATHER-SEAL SEALANT: REFERENCE DIVISION OF OF THE TECHNICAL SPECIFICATIONS; COLOR

SELECTED FROM MANUFACTURER'S STANDARD. d. MANUFACTURER: KAWNEER TRIFAB 451 UT, INTERIOR GLAZE e. <del>Warranty</del>

2. GLAZING: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION: 3. METAL FINISH: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. f. Finish as selected by the owner or owner's representative from manufacturer's

ENTRANCE DOOR: 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

I. IN ACCORDANCE WITH ALUMINUM ASSOCIATION STANDARD DF-45. 2. BAKED ENAMEL OR POWDER COAT: COMPLY WITH AAMA 2603; MINIMUM DRY FILM THICKNESS OF 15 MILS VERIFY ROUGH OPENING DIMENSIONS WITH THE MANUFACTURER PRIOR TO BEGINNING WORK.

ALL PRODUCTS SHALL BE FROM THE SAME SOURCE. THE INSTALLING CONTRACTOR SHALL BE MANUFACTURER APPROVED AND IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER ON THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE AUTOMATIC DOOR SYSTEM.

OBOB. PROVIDE FACTORY PREPARED, PRE-HUNG, FACTORY FINISHED, SOLID CORE, INTERIOR WOOD DOORS IN OBII. STEEL EMBOSSED DOORS IN PRE-HUNG WOOD FRAMES OR HOLLOW METAL FRAMES. HOLLOW METAL WOOD FRAMES AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. DOORS SHALL BE IN COMPLIANCE WITH WOMA I.S.I.

a. HANDLED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS:

DETAILS AND SPECIFICATIONS. b. MANUFACTURER: ALGOMA, EGGERS INDUSTRIES

PERCENT FOR THE REMAINDER OF THE PROJECT.

c. SHALL COMPLY WITH ANI'S "ARCHITECTURAL WOODWORK AND QUALITY STANDARDS ILLUSTRATED" <del>and woma i.s.i-a "architectural wood flush doors".</del>

d. PERFORMANCE GRADE: HEAVY DUTY IN ACCORDANCE WITH WDMA 1.S.I-A. e. DOOR: STRUCTURAL COMPOSITE CORE WITH MANUFACTURER'S STANDARD VENEER SPECIES; VERTICAL EDGES SHALL BE SAME SPECIES AS FACE VENEER; SCREW WITHDRAWAL AT FACE <del>MINIMUM 700 LBF, SCREW WITHDRAWAL AT EDGE MINIMUM 400 LBF, I-3/4 INCHES THICK, SIZE AND</del> STYLE AS INDICATED ON THE DRAWINGS.

. SHALL INCLUDE REINFORGEMENT AS REQUIRED FOR FINISH HARDWARE.

<sub>1</sub>. F<del>ACE VENEER: IN ACCORDANCE WITH NWWDA I.S.I A; PREMIUM GRADE WITH AA FACES<del>; SUBMIT</del></del> SAMPLES FOR FACE WOOD VENEER SPECIES AND "CUT" SELECTION BY OWNER OR OWNER'S

n. <del>Seal top and Bottom Faces of Door With Catalyzed Polyvrethane or Water Resistant</del>

DOORS THAT ARE INSTALLED AS PAIRS OR SIDE BY SIDE, SEPARATED ONLY BY A SECTION OF WALL LEGS THAN FOUR FEET WIDE, SHALL BE PAIR AND SET BOOK MATCHED. DO NOT DELIVER OR INSTALL DOORS UNTIL SPACES ARE ENCLOSED AND WEATHER-TIGHT, WET WORK IS COMPLETE AND DRY AND THE INVAC SYSTEM IS OPERATING AND MAINTAINING A

TEMPERATURE BETWEEN 60 AND 90 DEGREES F AND RELATIVE HUMIDITY BETWEEN 25 AND 55

3. DEFLECTION NORMAL TO WALL PLANE: LIMITED TO 1/175 OF CLEAR SPAN FOR SPANS UP TO 13 OBO9. PROVIDE FLUSH, INSULATED, AND NON-INSULATED, STEEL DOORS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, AND IN ACCORDANCE WITH ASTM A653, ANSI A250.6, ANSI/SDI A250.8, DHI AII5 NAAMM AMP 500 AND SDI 112.

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND ANSI A250.11

b. MANUFACTURER: STEELCRAFT c. MATERIAI I. EXTERIOR DOOR: FACE PANELS, IS GAUGE, FABRICATED FROM TYPE B COMMERCIAL STEEL SHEET WITH 660 METALLIC COATING; SEAMLESS CONSTRUCTION; 1-3/4 INCHES THICK; POLYURETHANE INSULATED TO MINIMUM R-VALUE OF 2.56 PER ASTM CI363; FACTORY PRIMED; FACTORY PREPARED AND PROPERLY REINFORCED FOR FINISH HARDWARE SELECTED.

d. Finish: Field Applied Paint; color as selected by <del>owner or</del> owner's representative.

2. INTERIOR DOOR: FACE PANELS, 20 GAUGE, FABRICATED FROM TYPE B COMMERCIAL STEEL SHEET; SEAMLESS CONSTRUCTION; I-3/4 INCHES THICK; FACTORY PRIMED; FACTORY PREPARED AND PROPERLY REINFORCED FOR FINISH HARDWARE SELECTED.

PROVIDE FACTORY FABRICATED, FACTORY FINISHED, AUTOMATIC ENTRANCE DOOR SYSTEM AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. INCLUDES ALUMINUM STOREFRONT FRAMING, INSULATED GLAZING, SEALANTS, WEATHER-STRIPPING, THRESHOLDS, FASTENERS, CONTROLS, ELECTRICAL POWER AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR AN AIRTIGHT, WEATHER-TIGHT, FULLY OPERATIONAL SYSTEM: a. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS; DETAILS AND SPECIFICATIONS.

b. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION ONO OF THESE GENERAL NOTES. MULLION DETAILS FOR FENESTRATION COMBINATIONS, REINFORGEMENT AND STIFFENERS. 2. SHOP DRAWING DETAILS OF JOINERY, FLASHING AND DRAINAGE, WEATHER-STRIPPING, THERMAL

BREAK AND GLAZING. 3. EXPANSION PROVISIONS.

CATEGORY

e. MATERIAL:

4. SEALANT.

GLAZING BEAD AND FACTORY APPLIED FINISH.

5. PRODUCT AND TESTING DATA ON ALL COMPONENTS, INCLUDING FINISH HARDWARE, OF THE 6. SAMPLE, MINIMUM 12 INCHES LONG, OF MAIN FRAMING MEMBER SHOWING WEATHER-STRIPPING,

1. SAMPLE, MINIMUM 12 INCHES SQUARE OF INSULATED, TINTED GLAZING PANEL. c. STRUCTURAL PERFORMANCE: REFERENCE THE STRUCTURAL DRAWINGS FOR WIND SPEED, IMPORTANCE FACTOR AND EXPOSURE

2. DEFLECTION: DESIGN SYSTEM TO LIMIT LATERAL DEFLECTION OF CLASS EDGES TO LESS THAN 1/175 OF GLASS EDGE LENGTH OR 3/4 INCH, WHICHEVER IS LESS, AT SPECIFIED DESIGN PRESSURE. 3. WIND BORNE DEBRIS RESISTANCE: DESIGN SYSTEM GAPABLE OF RESISTING IMPACT FROM WIND BORNE DEBRIS, BASED ON THE PASS/FAIL CRITERIA DETERMINED FROM TESTING IN

ACCORDANCE WITH ASTM E 1886 AND ASTM E 1996. 4. THERMAL MOVEMENT: DESIGN SYSTEM TO ALLOW THERMAL MOVEMENT FROM AMBIENT AND SURFACE TEMPERATURE CHANGES AND BASED ON SURFACE TEMPERATURE OF MATERIALS DUE TO SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS. d. REFERENCE THIS DIVISION OF THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:

ALUMINUM EXTRUSIONS: ALLOY 6063 T5 TEMPER OR AS RECOMMENDED BY THE SYSTEM MANUFACTURER FOR STRENGTH: CORROSION RESISTANCE AND APPLICATION OF FINISH: COMPLY WITH AAMA; MINIMUM STRUCTURAL WALL THICKNESS OF 0.125 INCHES; SIZE 1-3/4 INCH X 4-1/2 INCH; COMPLY WITH ASTM B 221. 2. GLAZING: TEMPERED: INSULATED: TINTING AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD; EXTERIOR STOP SHALL BE DESIGNED TO BE NON-REMOVEABLE. 3. HEADER: SIZED BY THE MANUFACTURER; MINIMUM 0.125 INCH WALL THICKNESS; CLOSED DESIGN TO REDUCE THE INFILTRATION OF AIRBORNE CONTAMINANTS AND DEBRIS WHICH MAY INHIBIT

OPERATION: SHALL INCLUDE A MEANS OF ACCESS FOR ADJUSTMENTS AND MAINTENANCE;

CONTAIN THE DOOR OPERATOR MECHANISM AND DOOR MOUNTING COMPONENTS; ROLLER TRACK IS SEPARATE EXTRUSION ATTACHED TO HEADER WITH SOUND DAMPENING MATERIAL; DESIGNED TO SUPPORT THE DOORS AND GLAZING AS SPECIFIED WITHOUT INTERMEDIATE SUPPORTS. 4. THO POINT LOCKING MECHANISM PER ANSI A156.5, GRADE I AND NEPA IOI.

5. THRESHOLD IN COMPLIANCE WITH ICC AII7.I-2009. 6. DOOR RESTRICTOR ARMS TO CONTROL THE OPENING ANGLE DURING ECRESS. *1. GARRIER AGGEMBLY AND ROLLER TRACK: DEGIGNED TO ALLOW FOR VERTIGAL ADJUSTMENT.* 8. ROLLERS: DOOR HANGER MINIMUM 1-1/2 INCH DIAMETER WITH SELF LUBRIGATING BALL BEARING

CORES; ANTI-RISE MINIMUM 1.4 INCHES DIAMETER. 9. FASTENERS: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH MEMBERS, TRIM, HARDWARE, ANCHORS AND OTHER COMPONENTS OF THE SYSTEM; COMPLY WITH IO. ANCHORS, CLIPS AND ACCESSORIES: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AND

OF SUFFICIENT STRENGTH TO WITHSTAND DESIGN PRESSURE; COMPLY WITH ASTM B 456. II. REINFORGING MEMBERS: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AND OF SUFFICIENT STRENGTH TO WITHSTAND DESIGN PRESSURE: COMPLY WITH AAMA. 12. OPERATOR AND CONTROLLER: SHALL BE DESIGNED TO ACCOMMODATE MEDIUM TO HEAVY

PEDESTRIAN TRAFFIC; MECHANICAL GEAR ASSEMBLY WITH FIBERGLASS REINFORGED TOOTH BELT DRIVE; COMPLY WITH ANSI 156.10 AND U.L. 325. 13. MOTION SENSOR CONTROL: UTILIZING K BAND MICROWAYE TECHNOLOGY TO DETECT MOTION AND FOCUSED ACTIVE INFRARED TECHNOLOGY TO DETECT PRESENCE; SMITCHABLE SENSING MOTION FOR BI-DIRECTIONAL AND UNI-DIRECTIONAL.

14. PROGRAMMABLE CONTROL SETTINGS OPEN SPEED, GLOSING SPEED, CHECK LOCATIONG, PARTIAL OPEN DIMENSIONS. 15. SMITCH CONTROL SETTINGS OFF, EXIT ONLY, TWO-WAY TRAFFIG, PARTIAL OPENING AND HOLD

16. SLIDING WEATHER-STRIPPING: TRACK-IN PILE; BOTTOM OF SLIDING DOOR, DOOR LEADING EDGES (DOUBLE), BETWEEN CARRIER AND HEADER, INTERLOCK RAIL (DOUBLE); COMPLY WITH

17. COMPRESSION WEATHER-STRIPPING: TRACK-IN NEOPRENE; BETWEEN SIDE-LITE DOOR AND JAMB; 18. SEALANT: AS RECOMMENDED BY THE SYSTEM MANUFACTURER; SEE DIVISION OF FOR SPECIFIC REQUIREMENTS.

e. <del>Manufacturer: Stanley dura-glide series 2000/3000 or Equal by Dorma.</del> F. PERFORMANCE CLASS AND GRADE: AS DESIGNED BY THE MANUFACTURER.

2. THERMAL TRANSMITTANCE: MAXIMUM U-FACTOR 0.28.

3. SOLAR HEAT GAIN COEFFICIENT: 0.32 TO 0.33.

4. CONDENSATION RESISTANCE FACTOR: 57 5. <del>AIR LEAKAGE RESISTANCE: MAXIMUM RATE OF 0.3 CFM PER SQUARE FOOT OF AREA AT AN</del> INMARD TEST PRESSURE OF 1.6 LBF PER SQUARE FOOT.

6. FORGED ENTRY RESISTANCE: GRADE IO WHEN TESTED ACCORDING TO AGTM F 842. 1. L<del>IFE CYCLE TESTING: TESTED AND ACCORDING TO AND COMPLYING WITH AAMA.</del> 8. OPERATING FORCE AND DURABILITY TESTING: TESTED ACCORDING TO AND COMPLYING WITH

. SLIDING DOOR: 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION, 2. GLAZING: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. 3. METAL FINISH: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

STILE SIZE: NARROW: FINISH AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD. IN ACCORDANCE WITH ALIMINUM ASSOCIATION STANDARD DF-45. 2. <del>CLEAR ANODIC: COMPLY WITH AAMA 611, CLASS I OR BHMA 204-RI, CLASS 2.</del>

4. BAKED ENAMEL OR POWDER COAT: COMPLY WITH AAMA 2603; MINIMUM DRY FILM THICKNESS I. DOOR SYSTEM SHALL HAVE EMERGENCY BREAKAWAY CAPABILITY THAT IS TO BE FIELD ADJUSTED IN ACCORDANCE WITH THE OBG AND ANGI/BHMA 156.10. MAXIMUM OF 50 LBG.

ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER.

3. DARK BRONZE ANODIG: GOMPLY WITH AAMA 6H, GLASS LOR BLIMA 313-RI, GLASS L.

. THE INSTALLING CONTRACTOR IS TO HAVE NO LEGS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER ON THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE AUTOMATIC DOORS SYSTEM.

a. PROVIDE STEEL EMBOSSED DOORS IN DIMENSIONS AND TYPES AS SHOWN ON THE DRAWINGS. LABELED OR NON-LABELED AS INDICATED ON THE DOOR SCHEDULE IN THE DRAWINGS. FURNISH

- 22 GAUGE FOR INTERIOR DOORS AND 20 GAUGE, GALVANIZED, FOR EXTERIOR DOORS, OR GAUGE AS REQUIRED FOR THE FIRE RESISTANCE RATING REQUIREMENTS, PROPERLY REINFORGED FOR THE FINISHED HARDWARE SELECTED. FURNISH DOORS WITH FACTORY APPLIED PAINTED

I. REFERENCE DOOR SCHEDULE UL LABEL FIRE RESISTANCE RATINGS. - 2. SECURE TEMPLATES FROM THE FINISH HARDWARE SUPPLIER, AND ACCURATELY INSTALL, OR

b. FURNISH MANUFACTURER'S STANDARD FLUSH METAL FRAMES, FORMED FROM MINIMUM 18 GAUGE STEEL, FOR OPENINGS REQUIRED TO HAVE A FIRE RESISTANCE RATING. REFERENCE DOOR SCHEDULE FOR UL LABEL FIRE RESISTANCE RATING REQUIREMENTS.

2. USE ONLY FRAMES RATED FOR HEAVY DUTY EXTERIOR USE. c. FURNISH MANUFACTURER'S STANDARD WOOD FRAMES, FORMED TO MANUFACTURER'S STANDARD

I. USE ONLY FRAMES RATED FOR HEAVY DUTY EXTERIOR USE. d. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND FINAL SHOP DRAWINGS

- I. ANCHOR COMPONENT PARTS SECURELY IN PLACE BY BOLTING, OR OTHER PERMANENT -—— MECHANICAL ATTACHMENT SYSTEM, WHICH WILL COMPLY WITH PERFORMANCE REQUIREMENTS. e. MANUFACTURERS: THREMA-TRU, HUTTIG OR EQUAL.

0812. INTERIOR WOOD DOORS WITH WOOD FRAMES (PRE-HUNG)

a. PROVIDE PRE-HUNG WOOD DOORS IN DIMENSIONS AND STYLES AS SHOWN ON THE DRAWINGS: I. SECURE TEMPLATES FROM THE FINISH HARDWARE SUPPLIER, AND ACCURATELY INSTALL, OR MAKE PROVISIONS FOR, ALL FINISH HARDWARE AT THE FACTORY. 2. PROPERLY REINFORGED DOORS AND FRAMES FOR THE FINISHED HARDWARE SELECTED.

AND AS SPECIFIED. c. DOORS TO BE PANELED, WITH FACTORY APPLIED PRIMER FINISHED, WOOD. d. FRAMES TO BE MANUFACTURER'S STANDARD PRE-HUNG WOOD WITH FACTORY APPLIED PRIMER. - I. ANCHOR COMPONENT PARTS SECURELY IN PLACE BY BOLTING, OR OTHER PERMANENT-

b. MEET OR EXCEED ANI QUALITY STANDARDS FOR ARCHITECTURAL WOOD DOOR REQUIREMENTS

MECHANICAL ATTACHMENT SYSTEM, WHICH WILL COMPLY WITH PERFORMANCE -REQUIREMENTS. USE CONCEALED FASTENERS WHEREVER POSSIBLE. e. MANUFACTURER: PRODUCED BY MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURING OF SIMILAR ITEMS AND WITH A HISTORY OF SUCCESSFUL PRODUCTION AGGEPTABLE TO THE

- OWNER OR THE OWNER'S REPRESENTATIVE. 0813. PROVIDE STEEL HOLLOW METAL FRAMES FOR HOLLOW METAL AND WOOD DOORS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. PROVIDE FRAMES IN ACCORDANCE WITH ASTM A653, ANSI A250.6, ANSI/SDI A250.6, DHI AII5, NAAMM

AMP 500, NAAMM HMMA 861 AND ANSI/SDI 112. a. INSTALL IN STRICT ACCORDANCE WITH ANSI/SDI 122 AND ANSI/SDI A250.II <u>USING ONLY</u> MANUFACTURER'S SPECIFIED ANCHORING METHODS FOR WALL ASSEMBLIES INDICATED.

STANDARD DOUBLE RABBET; WELDED IN ACCORDANCE WITH SECTIONS I THROUGH 6 OF AWS DI.I; I6 GAUGE THICKNESS; FABRICATED FROM TYPE B COMMERCIAL STEEL SHEET WITH 660 METALLIC COATING; FACTORY PRIMED; TWO INCH FACES; WITH PRESS-IN TYPE FRAME SILENCERS; FACTORY PREPARED FOR FINISH HARDWARE: JAMB ANCHORS PER ASTM A591 AND TYPE AS RECOMMENDED BY THE MANUFACTURER; REFER TO DRAWINGS FOR THROAT

2. EXTERIOR: 16 GAUGE WITH 660 METALLIC COATING ALL SURFACES.

3. INTERIOR: 20 GAUGE; "KNOCK-DOWN" HOLLOW METAL FRAMES ACCEPTABLE FOR INTERIOR USE ONLY. . FINISH: FACTORY PRIMED; FIELD APPLIED FINISH; REFERENCE DIVISION O9 OF THESE GENERAL

I. COLOR AS SELECTED BY-OWNER OR ARCHITECT FROM PAINT MANUFACTURER'S STANDARDS.

d. MANUFACTURER: STEELCRAFT OR EQUAL.

a. MATERIAL

OBI4. PROVIDE FINISH HARDWARE AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. ALL HARDWARE SHALL BE IN COMPLIANCE WITH OBC CHAPTERS IO AND II, THE DOOR AND HARDWARE INSTITUTE, UNDERWRITERS LABORATORIES, NFPA 70, NFPA 101, BHMA 1301 AND 1CC/ANSI A117.1.

I. UNLESS OTHERWISE NOTED, ALL FINISHES TO BE US26D, SATIN CHROME. 2. HINGE: COMPLY WITH ANSI A156.I, GRADE I, ANSI A2III AND ANSI A5IIII; 4-1/2 INCH X 4-1/2 INCH; FULL MORTISE: FIVE KNUCKLE BALL-BEARING: WITH REMOVABLE AND NON-REMOVABLE PIN. 3. LEVERS: MORTISE, COMPLY WITH ANSI AI56.13 GRADE I.

4. EXIT DEVICE: COMPLY WITH ANSI AI56.3, GRADE I; NARROW STILE DESIGN; LATCHING AS NOTED; NO LATCH DOGGING. 5. DEADBOLTS: UL 437, ANSI 156,5, GRADE I.

(HOLLOW METAL AND ALUMINUM DOORS ONLY).

c. KEYING REQUIREMENTS:

6. AUTOMATIC DOOR OPERATOR: COMPLY WITH ANSI AI56.19. 1. COORDINATE WITH ELECTRICAL CONTRACTOR ALL ELECTRICAL REQUIREMENTS FOR ELECTRIFIED STRIKES AND MAGNETIC LOCKS. 8. CLOSER: COMPLY WITH ANSI AI56.4, GRADE I; UNIVERSAL HANDING; REGULAR, TOP JAMB AND PARALLEL ARM MOUNTING; STEEL RACK AND PINION CONSTRUCTION; PRESSURE CAST STEEL OR ALUMINUM CASE; VACUUM AND PRESSURE IMPREGNATED WITH RESIN TO REDUCE THE POSSIBILITY OF MICRO-POROSITY; FURNISHED WITH A REVERSIBLE POWER ADJUSTMENT ARM

AND IN COMPLIANCE WITH ICC AIIT.I; MANUFACTURER'S STANDARD POWDER COAT FINISH. 9. TRIMS: COMPLY WITH ANSI AI56.6, ANSI AI56.16, ANSI AI56.18 AND ANSI AI56.22. IO. THRESHOLDS: COMPLY WITH ANSI AI56.21 AND ICC AII7.1 II. FRAME SILENCERS: INSERTED IN PRE-PUNCHED HOLES IN HOLLOW METAL DOOR FRAMES;

BRACKET FOR A 15 PERCENT LATCHING FORCE ADJUSTMENT; SPEED SHALL BE ADJUSTABLE

RUBBER: THREE PER STRIKE JAMB. b. MANUFACTURER: I. EXTERIOR HINGE: HAGER ECBBIIO3NRP: OR APPROVED EQUAL: US32D FINISH. 2. CYLINDRICAL LEVER LOCKSET: SCHLAGE, GRADE I, ND SERIES. SPARTA.

4. DEADBOLT; SCHLAGE B664P, GRADE I, COMMERCIAL ONE SIDED KEYED LOCK. 5. AUTOMATIC DOOR OPERATOR: NORTON 5900 SERIES; OR APPROVED EQUAL. 6. ACTUATOR SYSTEM: LON EXIT DEVICE: YON DUPRIN 33A/35A SERIES; WITH SURFACE MOUNTED VERTIGAL ROD DEVICES

3. CLOSER, HEAVY DUTY: LCN 4000 SERIES, FINISH TO MATCH LOCKSET; OR APPROVED EQUAL.

8. PUSH/PULL: HAGER 305-8x16 PUSH AND HAGER 33E-4x16 PULL. 9. STOPS: 9.1. FLOOR: HAGER 052150 HIGH FLOOR DOME STOP, SATIN CHROME OR APPROVED EQUAL. 9.2. WALL: 2岁" DIA. STEEL SCUTCHEON, SATIN STAINLESS STEEL FINISH, WITH CONCAVE

IO. TRIMS a) KICK PLATE: HAGER 1985, 18"x34", STAINLESS STEEL, OR APPROVED EQUAL. b) WEATHER-STRIPPING, PERIMETER: CONCEALED FASTENER; NATIONAL GUARD 1725; OR APPROVED EQUAL.

c) SHOE: NATIONAL GUARD 319; OR APPROVED EQUAL 12. THRESHOLDS: NATIONAL GUARD 896V, MIL FINISH, SLIP RESISTANT, ADA ACCESSIBLE. EQUALS BY HAGER, OR PEMKO. 13. KEY CYLINDER: MATCH LOCKSET MANUFACTURER.

RUBBER DOOR STOP, ROCKWOOD #409 OR APPROVED EQUAL.

. COORDINATE KEYING SCHEDULE WITH THE OWNER. 2. FURNISH QUANTITY OF MASTER KEYS AS REQUIRED BY THE OWNER. 3. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE. d. INSTALLER SHALL HAVE NO LESS THAN FIVE YEARS OF DOCUMENTED EXPERIENCE WITH THE

TYPE OF HARDWARE SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

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COMMISSION

ISSUE MARK DATE 4-5-21

> STEPHEN LUCHTENBERG 8546 Stephen M. Luchtenber

DRAWN BY: NJP, SML

Expiration Date: December 31, 2021 **GENERAL NOTES DIVISION 7 THROUGH** 

License No. 8546

DRAWING NUMBER

DIVISION 8

LOADS (WHERE APPLICABLE) WITHOUT FAILURE AND SHALL REMAIN AIR AND WATERTIGHT (WHERE APPLICABLE).

2. REFERENCE THE STRUCTURAL DRAWINGS FOR DESIGN WIND SPEED, IMPORTANCE FACTOR, EXPOSURE CATEGORY AND LOADS.

3. DESIGN FOR THERMAL MOVEMENT FROM AMBIENT AND SURFACE TEMPERATURE CHANGES AND BASED ON SURFACE TEMPERATURE OF MATERIALS DUE TO SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS:

4. FOR CLASS SUPPORTED ON ALL FOUR EDGES, LIMIT CENTER-OF-GLASS DEFLECTION AT DESIGN WIND PRESSURE TO NOT MORE THAN 1/50 TIMES THE SHORT-SIDE LENGTH OR ONE INCH, WHICHEVER IS LESS.

5. DESIGN TO RESIST THERMAL STRESSES INDUCED BY DIFFERENTIAL SHADING WITHIN INDIVIDUAL

b. MATERIAL

 FLOAT CLASS (ANNEALED): COMPLY WITH ASTM CLOSG, TYPE I, CLASS I, QUALITY QS. 2. FLOAT GLASS (HEAT TREATED): COMPLY WITH ASTM GIO48, TYPE I, CLASS I, QUALITY Q3; HORIZONTALLY TREATED.

3. GLEAR TEMPERED GLASS: COMPLY WITH ASTM CIO48, KIND FT, CONDITION A, TYPE I, CLASS I, QUALITY Q3. 4. I<del>nsulated unit: Comply with Astm E2190; Factory Assembled unit comprising of two</del>

ORGANICALLY SEALED SHEETS OF TEMPERED GLASS SEPARATED BY DEHYDRATED (DESSIGATED), GAS FILLED AIR SPACE; OUTER SHEET LOW E 366, INNER SHEET CLEAR; MINIMUM 3/4 INCHES TOTAL THICKNESS. 5. SETTING BLOCKS AND SPACERS: COMPLY WITH ASTM C864; SEMI-HARD NEOPRENE OR VINYL

RUBBER; 10-90 SHORE A HARDNESS WHEN TESTED IN ACCORDANCE WITH ACTM D2240; WIDTH EQUAL TO THE THICKNESS OF THE GLASS AND LONG ENOUGH TO LIMIT LOAD ON EACH BLOCK TO ISLB/SQ.IN.; THREE INCHES MINIMUM LENGTH OF SETTING BLOCKS.

6. GLAZING GASKET: COMPLY WITH ASTM C509; CHANNEL TYPE, CONTINUOUS, CLOSED-CELL EXTRUDED NEOPRENE OR VINYL RUBBER; SHALL BE CAPABLE OF BEING COMPRESSED 40 PERCENT ORIGINAL SIZE AND SHALL HAVE 100 PERCENT RECOVERABILITY WHEN TESTED IN ACCORDANCE WITH ACTM F36

1. GLAZING TAPE: SYNTHETIG RUBBER SHEET OR STRIP MATERIAL REINFORGED AND STABILIZED WITH FABRIC MESH; TREATED WITH A BONDING AGENT ON BOTH CONTACT SURFACES.

c. <del>SCHEDULE</del> REFERENCE THIS GENERAL NOTE SECTION.

2. <del>INTERIOR DOOR VISION PANEL: TEMPERED.</del>

3. WINDOWS: REFER TO THE WINDOW SECTION THIS DIVISION. d. VISIBLE REFLECTANCE IN ACCORDANCE WITH NERC 300.

e. <del>Fire-resistant-rated glazing in opening protectives shall be tested in accordance</del> WITH ASTM EIIA OR U. L. 263, AND SHALL BE PERMANENTLY MARKED AND IDENTIFIED IN ACCORDANCE WITH OBC SECTION 716.

. TEMPERED GLAZING SHALL BE PERMANENTLY MARKED WITH THE GERTIFICATION LABEL OF THE SGGG, MANUFACTURER'S NAME, TYPE OF GLASS, THICKNESS AND SAFETY GLAZING STANDARD WITH WHICH THE GLASS COMPLIES.

g. I<del>nculated unit shall be permanently marked with the appropriate certification label</del> OF IGGG. WARRANTY

COATED GLASS: 10 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. 2. INSULATED UNIT: 10 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.

a. PROVIDE EXTRUDED VINYL WINDOW UNITS, WITH, BRONZE, LOW-E INSULATING GLASS, IN DIMENSIONS AND STYLES INDICATED ON THE DRAWINGS

I. FURNISH WINDOW UNITS WITH MANUFACTURER'S MOLDED NAILING FLANGE: 2. FURNISH WINDOW UNITS WITH MANUFACTURER'S STANDARD INSECT SCREENS. b. GRADE REQUIREMENTS: MEET OR EXCEED AAMA/NIMDA 101/1.5.2-97, 11-LC25 GRADE.

c. THERMAL PERFORMANCE: NFRC 100-97, U-VALUE OF 0.30. d. SOLAR HEAT GAIN COEFFICIENT: NFRC 200-97, NOT TO EXCEED 0.30.

e. GLAZING: LOW-E, SEALED INSULATING GLASS UNIT, 3/4 INCH UNIT THICKNESS, WITH ARGON GAS-

- I. ALL WINDOW UNITS TO HAVE USDE ENERGY STAR CONFORMANCE LABEL F. MANUFACTURER: PRODUCED BY A MANUFACTURER REGULARLY ENGAGED IN THE MANUFACTURING 

PRODUCTION ACCEPTABLE TO THE OWNER OR OWNER'S REPRESENTATIVE. <del>7. ASSEMBLE WINDOM UNITS COMPLETELY IN FACTORY, INCLUDING OPERATING HARDWARE AND</del>

h. INSTALL WINDOW UNITS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION 

AND WINDOW MANUFACTURER'S REQUIREMENTS; REFERENCE DIVISION 07, WINDOW PAN - FI ASHING a) PAN FLASHING: INSTALLED THE ENTIRE PERIMETER OF THE OPENING: AS RECOMMENDED

BY THE WINDOW MANUFACTURER AND PER ASTM E331 AND ASTM E96 2. SET WINDOW UNITS SQUARE, PLUMB AND LEVEL, ANCHORED TO SUBSTRATE AS DIRECTED.

- 3. SEAL NAIL FLANCES IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. 4. APPLY JOINT SEALANTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTION.

0817. PROVIDE OPERABLE AND FIXED ALUMINUM CLAD WOOD WINDOWS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS REQUIRED FOR COMPLETE, WEATHER-TIGHT, INSTALLATION. <del>INGLUDES PREPARATION OF THE OPENING FOR MATERIAL INSTALLATION, FLASHINGS, FASTENERS,</del> <del>Sealants and all other items and incidentals as required for an airtight and</del> <del>WEATHER-TIGHT SYSTEM. COMPLY WITH AAMA/WDMA/CSA 101/1.5.2/A440-05.</del>

 a. HANDLING AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. b. M<del>aterial. Refer to the dramings for specific sizes.</del>

. WINDOW UNIT: FACTORY ASSEMBLED; EXTERIOR SHALL BE EXTRUDED ALUMINUM CLAD (PER AAMA 101/1.5.2/A440) (MINIMUM 0.050 INCH THICKNESS) WITH FLUOROPOLYMER MODIFIED ACRYLIC FINISH OVER PRIMER: INTERIOR UNFINISHED GLEAR PINE: FRAME SHALL BE WATER REPELLENT PRESERVATIVE TREATED IN ACCORDANCE WITH WDMA LS.4; FACTORY INSTALLED JAMB

EXTENSIONS WHERE REQUIRED; CONDENSATION RESISTANCE FACTOR 57; THERMAL TRANSMITTANCE U-0.28 MAXIMUM; SOLAR HEAT GAIN COEFFICIENT 0.32-0.33; VISUAL <del>TRANSMITTANCE 0.56-0.57.</del> 2. GLAZING: DOUBLE SHEET; BRONZE (OR AS SELECTED BY OWNER); INSULATED GLASG; LOW E 272;

3. F<del>asteners: as recommended by the manufacturer; comply with aama loi/1.5.2/a440.</del> 4. NO EXPOSED HARDWARE

5. PAN FLASHING: INSTALLED THE ENTIRE PERIMETER OF THE OPENING; AS RECOMMENDED BY THE WINDOW MANUFACTURER AND PER ASTM E331 AND ASTM E96. 6. SEALANT: REFER TO DIVISION OF THESE GENERAL NOTES.

ARGON FILLED; COMPLY WITH ASTM E2190 AND ASTM C1036; SPANDREL IN UNITS AS INDICATED

. M<del>anufacture: Pella architectural series or equal by Marvin Mindow, Ultimate Casement.</del> d. EXTERIOR COLOR: AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S

e. INTERIOR COLOR (FIELD APPLIED): AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE

. WARRANTY: MINIMUM IO YEARS FROM DATE OF SUBSTANTIAL COMPLETION. q. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER.

THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT. PRIOR TO THE COMMENCEMENT OF WORK, PROVIDE A MOCK-UP OF ONE WINDOW UNIT FOR APPROVAL BY THE OWNER, THE OWNER'S REPRESENTATIVE AND THE ARCHITECT, AND IF REQUESTED, 0903. GYPSUM BOARD SYSTEMS SHALL COMPLY WITH OBC CHAPTERS & AND 25, AND SHALL HAVE A THE MANUFACTURER. THE MOCK-UP IS TO INCLUDE ALL FLASHING, TAPES, ETC. THE MOCK-UP, IF APPROVED, MAY BE INCORPORATED IN THE WORK. 803.I.I. PROVIDE GYPSUM BOARD SYSTEMS AS SHOWN AND SPECIFIED.

0818. POWER OPERATED ROLLING COUNTER SHUTTER

4. ELECTRIC MOTOR

 a. PROVIDE AND INSTALL POWER OPERATED ROLLING COUNTER SHUTTER, HOOD HOUSING, MOTOR, CONTROLS, GUIDES, COUNTERBALANCES, BOTTOM BAR AND ALL OTHER PARTS AND

ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL ASSEMBLY. b. PRIOR TO ORDERING PRODUCT, SUBMIT PRODUCT-SPECIFIC MANUFACTURER'S LITERATURE, JOB SPECIFIC INSTALLATION SHOP DRAWINGS AND INSTALLER'S CREDENTIALS FOR REVIEW BY THE ARCHITECT. DO NOT PROCEED WITH INSTALLATION PRIOR TO ARCHITECT'S REVIEW. c. EXAMINE ALL ADJACENT SURFACES FOR COMPLIANCE WITH INSTALLATION REQUIREMENTS.

COMMENCEMENT OF WORK INDICATES INSTALLER'S ACCEPTANCE OF PROJECT CONDITIONS; AFTER WHICH ANY ADDITIONAL REQUIRED PREPARATION OF ADJACENT SURFACES FOR INSTALLATION SHALL BE AT THE INSTALLER'S COST. d. FIELD MEASURE EXISTING CONDITIONS PRIOR TO ORDERING PRODUCT.

e. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL REQUIRED POWER AND CONTROL WIRING. F. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

I. PREFINISHED ALUMINUM INTERLOCKING FLAT PROFILE SLATS (F-158) WITH END LOCKS AND ALUMINUM BOTTOM BAR

I.I. BRONZE ANODIZED FINISH 2. BETWEEN JAMB MOUNTING WITH PREFINISHED ALUMINUM GUIDES. 3. HELICAL TORSION SPRINGS HOUSED IN A STEEL TUBE WITHIN PREFINISHED ALUMINUM HOUSING.

f. PRODUCT I. OVERHEAD DOOR COMPANY, MODEL # 652, OR APPROVED EQUAL. 0900. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THESE GENERAL NOTES.

a. GYPSUM BOARD b. TILING FLOOR GOVERING

**DIVISION 9 - FINISHES** 

ACOUSTICAL CEILING SUSPENSION ASSEMBLIES

d. FLOOR COVERINGS AND WALL BASE e. PAINTING AND COATING

0901. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION a. GYPSUM ASSOCIATION (GA)

I. GA-214, RECOMMENDED LEVELS OF FINISH FOR GYPSUM BOARD, GLASS MAT AND FIBER-REINFORCED GYPSUM PANELS 2. GA-216, APPLICATION AND FINISHING OF GYPSUM PANEL PRODUCTS

3. GA-222, REPAIRING SCREW AND NAIL POPS 4. GA-801, HANDLING AND STORAGE OF GYPSUM PANEL PRODUCTS b. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

c. TILE COUNCIL OF NORTH AMERICA (TCNA) I. TCNA HANDBOOK FOR TILE INSTALLATION

d. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) I. ANSI AIO.20, SAFE OPERATING PRACTICES FOR TILE 2. ANSI AIO8.01, SUBSURFACES AND PREPARATIONS BY OTHER TRADES

3. ANSI AI08.02, MATERIALS, ENVIRONMENTAL AND WORKMANSHIP 4. ANSI AIO8.IA, INSTALLATION OF CERAMIC TILE IN WET-SET METHOD WITH PORTLAND CEMENT

5. ANSI AIO8.6, INSTALLATION OF CERAMIC TILE WITH CHEMICAL RESISTANT, WATER-CLEANABLE TILE SETTING AND GROUT EPOXY

6. ANSI AIO8.IO, INSTALLATION OF GROUT IN TILE WORK 7. ANSI AII*8.3*, SPECIFICATION FOR CHEMICAL RESISTANT, WATER-CLEANABLE TILE SETTING AND GROUT EPOXY 8. ANSI AI37.I, SPECIFICATIONS FOR CERAMIC TILE

e. CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION (CISCA) I. CISCA CEILING SYSTEMS HANDBOOK

2. CISCA SEISMIC (ZONES 0-2) RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS

F. CODE OF FEDERAL REGULATIONS (CFR) 40 CFR 60, DETERMINATION OF VOLATILE MATTER CONTENT, WATER CONTENT, DENSITY, VOLUME SOLIDS AND WEIGHT SOLIDS OF SURFACE COATINGS

2. 40 CFR 59, NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS

a. MASTER PAINTER'S INSTITUTE (MPI) MPI ARCHITECTURAL PAINTING AND SPECIFICATION MANUAL

h. HOLLOW METAL MANUFACTURERS ASSOCIATION HMMA 840-TNOI, PAINTING HOLLOW METAL PRODUCTS

I. SOCIETY FOR PROTECTIVE COATINGS (SSPC) SSPC PA-I, SHOP, FIELD AND MAINTENANCE PAINTING OF STEEL

2. PAINT SYSTEM GUIDE NO. 14, GUIDE FOR THE REPAIR OF IMPERFECTIONS IN GALVANIZED OR INORGANIC ZINC-COATED STEEL USING ORGANIC ZINC-RICH COATING

PAINTING AND DECORATING CONTRACTORS OF AMERICA (PDCA) I. PDCA STANDARD PL

2. PDCA STANDARD P4 3. PDCA STANDARD PI3

4. PDCA STANDARD PI5

k. AMERICAN SOCIETY FOR TESTING MATERIALS

. ASTM A641, STANDARD SPECIFICATION FOR ZINC-COATED (GALVANIZED) CARBON STEEL WIRE 2. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC COATED (GALVANIZED) OR

ZINC IRON ALLOY COATED (GALVANNEALED) BY THE HOT DIP PROCESS 3. ASTM A666, STANDARD SPECIFICATION FOR ANNEALED OR COLD WORKED AUSTENITIC

STAINLESS STEEL SHEET, STRIP, PLATE AND FLAT BAR 4. ASTM A780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS 5. ASTM CII, STANDARD TERMINOLOGY RELATING TO GYPSUM AND RELATED BUILDING MATERIALS

6. ASTM C475, STANDARD SPECIFICATION FOR JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD

7. ASTM C553, STANDARD SPECIFICATION FOR MINERAL FIBER BLANKET THERMAL INSULATION FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS 8. ASTM C557, STANDARD SPECIFICATION FOR ADHESIVES FOR FASTENING GYPSUM WALLBOARD

TO WOOD FRAMING 9. ASTM C635, STANDARD SPECIFICATION FOR MANUFACTURE, PERFORMANCE AND TESTING OF METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS

IO. ASTM C636, STANDARD SPECIFICATION FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS II. ASTM C655, STANDARD SPECIFICATION FOR MINERAL-FIBER BLANKET THERMAL INSULATION FOR LIGHT FRAME CONSTRUCTION AND MANUFACTURED HOUSING

12. ASTM C840, STANDARD SPECIFICATION FOR APPLICATION AND FINISHING GYPSUM BOARD 13. ASTM C919, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS 14. ASTM CIOO2, STANDARD SPECIFICATION FOR STEEL SELF-PIERCING TAPPING SCREWS FOR THE APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO WOOD OR

15. ASTM CIO47, STANDARD SPECIFICATION FOR ACCESSORIES FOR GYPSUM WALLBOARD AND GYPSUM VENEER BASE

16. ASTM C1320, STANDARD PRACTICE FOR INSTALLATION MINERAL FIBER BATT AND BLANKET THERMAL INSULATION FOR LIGHT FRAME CONSTRUCTION

17. ASTM C1396, STANDARD SPECIFICATION FOR GYPSUM BOARD 18. ASTM D2047, STANDARD TEST METHOD FOR STATIC COEFFICIENT OF FRICTION OF POLISH-COATED FLOORING SURFACES AS MEASURED BY THE JAMES MACHINE 19. ASTM D6386. STANDARD PRACTICE FOR PREPARATION OF ZINC (HOT DIP GALVANIZED)

COATED IRON AND STEEL PRODUCT AND HARDWARE SURFACES FOR PAINTING 20.ASTM D7073, STANDARD GUIDE FOR APPLICATION AND EVALUATION OF BRUSH AND ROLLER APPLIED PAINT FILMS

21. ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING

22.ASTM E90, STANDARD TEST METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS AND ELEMENTS 23. ASTM E413, CLASSIFICATION FOR RATING SOUND INSULATION 24.ASTM E580, STANDARD PRACTICE FOR INSTALLATION OF CEILING SUSPENSION SYSTEMS FOR

ACOUSTICAL TILE AND LAY-IN PANELS IN AREAS SUBJECT TO EARTHQUAKE GROUND MOTIONS 25. ASTM E648, STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOORCOVERING SYSTEMS USING A RADIANT ENERGY SOURCE

26.ASTM EI155, STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND FLOOR LEVELNESS 27. ASTM EI264, STANDARD CLASSIFICATION FOR ACOUSTICAL CEILING PRODUCTS

28.ASTM F7IO, STANDARD PRACTICE FOR PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT

29. ASTM F1861, STANDARD SPECIFICATION FOR RESILIENT WALL BASE 0902. EXAMINE SUBSTRATES, SUPPORTING STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED

WITH ANY WORK OF THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE. b. FIELD VERIFY MEASUREMENTS. DO NOT SCALE DRAWINGS OR CALCULATE SIZES, AREAS,

LENGTHS, QUANTITIES, ETC. FROM DIMENSIONS SHOWN. CLASS C (USE GROUP B, SPRINKLERED) FINISH REQUIREMENTS IN ACCORDANCE WITH OBC TABLE

a. WORK INCLUDES NEW INTERIOR WALL AND PARTITION ASSEMBLIES. b. CEILING ASSEMBLIES c. PATCHING AND FINISHING OF EXISTING GYPSUM BOARD WALLS, PARTITIONS, AND CEILINGS.

d. PROVIDE ALL ACCESSORIES, TRIM AND JOINT FINISHING. 0904. PROVIDE LEVEL AND PATCH PREPARATION OF SUBSTRATES FOR FLOOR COVERING AS REQUIRED BY

THE MANUFACTURER OF THE SYSTEM BEING INSTALLED. a. I<del>nstall in strict accordance with the Manufacturer's written instructions, details and</del> SPECIFICATIONS AND ICC/ANSI AIIT.I.

b. GEMENTITIOUS MATERIAL CRACK AND JOINT TREATMENTS. 2. PATCHING COMPOUNDS.

3. SELF-LEVELING UNDERLAYMENTS. 4. PRIMERS. 5. MOISTURE CONTROL SYSTEMS. c. MANUFACTURER: ARDEX OR EQUAL.

d. CONCRETE SUBSTRATE PREPARATION SHALL HAVE A DENSITY NOT LESS THAN 100 POUNDS PER CUBIC FOOT OR COMPRESSIVE STRENGTH LESS THAN 3000 PSI

2. <del>CLEANING AS RECOMMENDED BY THE MANUFACTURER AND SHALL BE IN ACCORDANCE WITH</del> ASTM D4258, ASTM D4259 AND ASTM D4260. 3. ACID WASHING OR ACID ETCHING IS PROHIBITED.

e. ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. . THE INSTALLING CONTRACTOR SHALL HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE APPLICATION OF SURFACE PREPARATION MATERIALS AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

0905. PROVIDE GYPSUM BOARD ASSEMBLIES AS SHOWN ON DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES FASTENERS AND ALL OTHER

ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE SYSTEM. a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

b. MATERIAL: I. GYPSUM BOARD PANEL: U. L. LABELED, 48 IN. WIDE BY MAXIMUM LENGTH POSSIBLE: 5/8 IN. THICKNESS, IN COMPLIANCE WITH ASTM C840 AND ASTM C1396, TAPERED EDGES; INSTALL TYPE

"FIRE-CODE" GYPSUM BOARD PANEL AS DESIGNATED 2. MOLD/MOISTURE-RESISTANT GYPSUM BOARD PANEL: U. L. LABELED, 48 IN. WIDE BY MAXIMUM LENGTH POSSIBLE, 5/8 IN. THICKNESS, IN COMPLIANCE WITH ASTM C840 AND ASTM C1396, TAPERED EDGES; INSTALL TYPE "FIRE-CODE" GYPSUM BOARD PANEL AS DESIGNATED.

2.1 INSTALL ON WALLS WITHIN 6' OF PLUMBING FIXTURES. 3. <del>Sound Damped Cypsum Board: U. L. Labeled, 48 In. Mide by Maximum Length Possible</del> <del>5/8 IN. THICKNESS, IN COMPLIANCE WITH ASTM C840, ASTM C1396, ASTM E90, ASTM E413,</del> TAPERED EDGES; INSTALL SOUND DAMPED TYPE "FIRE GODE" GYPSUM BOARD PANEL AS

DESIGNATED 4. EXTERIOR CYPSUM BOARD SHEATHING: U. L. LABELED, ASTM CIITT; GYPSUM, MOISTURE 

5. CORNER BEAD, EDGE TRIM AND CONTROL JOINT: FORMED METAL OR METAL COMBINED WITH PAPER; SHEET STEEL COATED WITH ZINC BY HOT DIP PROCESS OR ELECTROLYTIC PROCESS.

6. FASTENER FOR GYPSUM WALLBOARD: ASTM CIOO2; AS RECOMMENDED BY THE PANEL

MANUFACTURER FOR THE APPLICATION INDICATED ON THE DRAWINGS. 7. JOINT TREATMENT: ASTM C475, UTILIZE JOINT TAPE AND READY-MIXED VINYL TAPE COMPOUND FOR TAPE BEDDING AND TOPPING.

8. GYPSUM BOARD STUD ADHESIVE: ASTM C475 AND MANUFACTURER'S RECOMMENDED ADHESIVE FOR USE WITH METAL WALL/PARTITION FRAMING AND WOOD ROOF FRAMING, LOW VOC. 9. ACOUSTICAL SEALANT: U. L. LABELED, ASTM C834 AND AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER FOR SEALING SOUND RATED GYPSUM BOARD WALL, PARTITION, AND CEILING

c. MANUFACTURER, GYPSUM BOARD PANEL AND GYPSUM BOARD SHEATHING: UNITED STATES GYPSUM, GEORGIA PACIFIC. GOLD BOND BUILDING PRODUCTS, PABCO GYPSUM. d. MANUFACTURER, FASTENER: GRABBER; HILTI

e. EACH TYPE OF PRODUCT SHALL BE FROM ONE SOURCE.

0906. GYPSUM BOARD INSTALLATION: CLEAN AND INSPECT SUBSTRATE SURFACES BEFORE INSTALLING GYPSUM BOARD.

a. COMPLY WITH GA 216 "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF b. FURNISH A LEVEL 4 FINISH TO ALL SURFACES OF EXISTING AND NEWLY CREATED ROOMS/SPACES IN ACCORDANCE WITH ASTM C840 REQUIREMENTS.

. SINGLE-LAYER WALLS AND PARTITIONS: APPLY SHEETS VERTICALLY OR HORIZONTALLY. d. DOUBLE-LAYER WALLS AND PARTITIONS: APPLY BOTH LAYERS VERTICALLY WITH JOINTS OF BASE LAYER OVER SUPPORTS/FRAMING AND JOINTS OF FACE LAYER OFFSET AT LEAST 10 IN. WITH BASE LAYER JOINTS. MECHANICALLY FASTEN BASE LAYER, LAMINATE FACE LAYER TO BASE LAYER. ENSURE UNIFORM ADHESION.

e. Fire-resistant-rated assemblies: Provide Materials and Installation identical to THE U. L. LABELED TESTED AND LISTED ASSEMBLIES ON THE DRAWINGS. PROVIDE FRAMING ON BOTH SIDES OF JOINT AND BACK JOINT WITH 2 IN, WIDE GYPSUM BOARD STRIPS. F. INSTALL TRIMS AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FINISH

AS RECOMMENDED. a. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR MIXING, HANDLING, AND APPLICATION OF MATERIALS. DO NOT USE BEDDING COMPOUNDS FOR FINAL COAT OF JOINT TREATMENT UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THAT USE.

0907. EXTERIOR GYPSUM SHEATHING BOARD

a. SHEATHING BOARD - I. CHARACTERISTICS

i) "DENG-GLASS GOLD" SHEATHING OR OWNER APPROVED EQUAL: 5/8 INCH THICK BY 4' 2. COMPOSITION:

BOTH SIDES AND LONG EDGES, WATER-RESISTANT TREATED GORE. b. BUILDING PAPER - MOISTURE BARRIER I. USE NO. 15, NON-PERFORATED, ASPHALT SATURATED FELT COMPLYING WITH ASTM D 226,

a) CYPSUM SHEATHING MANUFACTURED IN ACCORDANCE WITH ASTM CHTT WITH GLASS MATS

2. AT EIFS FINISH SYSTEM: USE ONLY THE TYPE OF MOISTURE BARRIER AS APPROVED AND RECOMMENDED BY THE EIFS MANUFACTURER.

c. ACCESSORIES I. JOINT TAPE: 2" WIDE, IOXIO GLASS MESH TAPE. 2. JOINT COMPOUND: 6-P GYPSUM SETTING-TYPE JOINT COMPOUND.

- I. TYPE S-12, BUGLE HEAD, SELF-TAPPING, RUST-RESISTANT, FINE THREAD FOR HEAVY-STEEL 

2. TYPE S, BUGLE HEAD, RUST-RESISTANT SHARP POINT, FINE THREAD FOR LIGHT-GAUGE METAL FRAMING OR FURRING. e. SCREWS, METAL OR WOOD FRAMING:

I. WAFER HEAD, RUST-RESISTANT, TYPE S-12 DRILL OR HI-LO, MIN. I" LENGTH. OR TYPE W RUST-RESISTANT, BUGLE HEAD, COARSE THREAD, SHARP POINT FOR WOOD. F. PROVIDE DENS-GLAGS GOLD SHEATHING WHERE INDICATED ON DRAWINGS. INSTALL SHEATHING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPLICABLE INSTRUCTIONS IN GA-

253 AND ASTM CI28O. I. INSTALL DENS-GLASS GOLD SHEATHING WITH GOLD SIDE OUT.

2. USE MAXIMUM LENGTHS POSSIBLE TO MINIMIZE NUMBER OF JOINTS. - 3. METAL FRAMING: ATTACH DENS-GLASS GOLD SHEATHING TO METAL FRAMING WITH SCREWS SPACED 8" O.C. AT PERIMETER WHERE THERE ARE FRAMING SUPPORTS; AND 8" O.C. ALONG

INTERMEDIATE FRAMING IN FIELD. 4. DRIVE FASTENERS TO BEAR TIGHT AGAINST AND FLUSH WITH SURFACE OF SHEATHING. DO NOT COUNTERSINK 5. LOGATE FASTENERS MINIMUM 3/8 INCH FROM EDGES AND ENDS OF SHEATHING PANELS:

q. BUILDING PAPER: INSTALL BUILDING PAPER - MOISTURE BARRIER OR EQUAL WITH FLASHING h. FINISHING: — I. SEAL FASTENERS USING DOW CORNING 745 OR BORDEN HPPG ELMERS SILICONIZED ACRYLIC 0913.

LATEX CAULK OR EQUIVALENT. 2. FINISH JOINTS USING DOW CORNING 795 OR BORDEN HPPG ELMERS SILICONIZED ACRYLIC LATEX CAULK OR EQUIVALENT. REINFORCE WITH 2 INCHES WIDE TO X TO GLASS MESH QUICK TAPE OR EQUIVALENT.

I. CAUTION: THIS PRODUCT CONTAINS CONTINUOUS FILAMENT FIBERGLASS FIBER RELEASED DURING — NORMAL HANDLING OF THIS PRODUCT CAN CAUSE SKIN, EYE AND RESPIRATORY IRRITATION; — AVOID BREATHING DUST AND CONTACT WITH SKIN AND EYES. FOLLOW STANDARD WORK - PRACTICES AS RECOMMENDED BY THE SHEATHING MANUFACTURER.

0908. UNLESS OTHERWISE INDICATED OR SPECIFIED BY THE MANUFACTURER, THE SUBSTRATE FOR FLOOR COVERINGS SHALL BE STEEL TROWELED AND LEVEL TO A TOLERANCE OF 1/8 INCH IN A TEN FOOT

0909. PROVIDE PORGELAIN TILE FLOOR AND WALL FINISH AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES PREPARING THE SUBSTRATE TO ACCEPT MATERIALS, EDGE STRIPS, TRANSITION STRIPS, THIN-SET, WALL ADHESIVE; WALL TRIMS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE INSTALLATION. a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND

SPECIFICATIONS, TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" AND ANSI AIOS. . POR T-I: STYLE FLOW; COLOR DUNE; MATTE FINISH; SIZE 24 INCH X 24 INCH. 2. POR T-2: STYLE FLOW; COLOR VINTAGE; MATTE FINISH; SIZE 12 INCH X 24 INCH.

3. GROUT GT-I FOR POR T-I: TBD BY INTERIOR DESIGNER.

4. GROUT GT-2 FOR POR T-2: TBD BY INTERIOR DESIGNER. 5. THIN SET: LATEX PORTLAND CEMENT MORTAR PER ANGI 118.4. 6. WALL ADHESIVE: LATEX PORTLAND CEMENT MORTAR PER ANGI 118.4. 7. BACKING BOARD: USG "FIBEROCK" OR APPROVED EQUAL; THICKNESS TO MATCH ADJACENT

PER ANGI AIOB.II AND MANUFACTURER'S RECOMMENDATION. 8. GRACK ISOLATION MEMBRANE: USE TYPE AS RECOMMENDED BY THE TILE MANUFACTURER. 9. PATCHING AND LEVELING COMPOUNDS: REFER TO THIS DIVISION. IO. TRANSITION STRIP: REFER TO THE ROOM FINISH SCHEDULE FOR TYPE AND LOCATION:

INSTALL AT CENTER LINE OF DOORS; COMPLY WITH ICC/AII7.1, 2009. II. GROUT SEALER: MANUFACTURER'S STANDARD SILICONE PRODUCT THAT DOES NOT CHANGE THE COLOR OR APPEARANCE OF THE GROUT. c. TILE MANUFACTURER: CAESAR

GYPSUM WALLBOARD PANEL; FASTENERS AS RECOMMENDED BY MANUFACTURER; FINICH JOINTS

WIDTHS AT OPPOSITE EDGES OF THE ROOM, NO TILE SHALL BE LESS THAN 1/3 TILE WIDTH; e. PROVIDE EXPANSION JOINT AS INDICATED ON THE DRAWINGS. f. JOINT THICKNESS: 3/8 INCHES WIDTH.

d. MEASURE EACH ROOM AREA AND ESTABLISH A LAYOUT OF TILES THAT BALANCES BORDER

0910. PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. INCLUDES EXPOSED GRID SYSTEM, EDGE MOLDINGS, SUSPENSION HANGERS/WIRES, HOLD-DOWN CLIPS AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE SYSTEM.

a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, ASTM C636, ASTM E580 (FOR SEISMIC RESTRAINT), CISCA'S "CEILING SYSTEMS HANDBOOK" AND CISCA'S "RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS" FOR SEISMIC ZONES 0-2.

b. MATERIALS: I. GRID: DOUBLE WEB MAIN AND GROSS RUNNERS WITH FACTORY FINISHED STEEL GAP; NOMINAL 

2. MANUFACTURER: ARMSTRONG "PRELUDE" OR EQUAL. 3. HANGER WIRE: SOFT TEMPERED; GLASS I ZING GOATING; SIZED SO THAT STRESS AT THREE TIMES THE HANGER DESIGN LOAD, PER ASTM 6641, TABLE 1, DIRECT HUNG, WILL BE LESS THAN

THE YIELD STRESS OF THE WIRE. MINIMUM 0.106 INCH DIAMETER (12 GAUGE). 4. ACOUSTIC TILE: SQUARE EDGE, MEDIUM TEXTURE, 24 IN. x 48 IN. x 3/4 IN. TH., NRC 0.70, CAG - 35, LIGHT REFLECTANCE COEFFICIENT O.86; CLASS A ASTM E84, COMPLYING WITH ASTM

5. MANUFACTURER: ARMSTRONG "CIRRUS" SQUARE LAY-IN OR EQUAL. HOLD-DOWN CLIP: PROVIDE AT CEILING SYSTEM IN VESTIBULES, IF SPECIFIED, AND WITHIN FIVE FEET OF EXTERIOR DOORS. 7. TOUCH-UP PAINT: SUPPLIED BY THE MANUFACTURER OF THE GRID SYSTEM AND PANELS: .. <del>WITH EXCEPTION OF HANGER WIRES, THE ENTIRE SYSTEM SHALL BE FROM ONE SOURGE, FROM A</del>

d. MEASURE EACH CEILING AREA AND ESTABLISH A LAYOUT OF ACOUSTICAL PANELS THAT BALANCES BORDER WIDTHS AT OPPOSITE EDGES OF THE CEILING. AVOID THE USE OF LESS THAN HALF WIDTH PANELS AT BORDERS.

e. PROVIDE QUANTITY OF HANGER WIRE REQUIRED BY OBG SECTION 808, THE CEILING MANUFACTURER, AND THE ELECTRICAL CONTRACTOR FOR LIGHT FIXTURES. f. THE USE OF POP RIVETS AT WALL MOLDING IS PROHIBITED. q. CONTRACTOR TO FURNISH ONE FULL BOX OF ACOUSTICAL PANELS FOR OWNERS "ATTIC" STOCK:

PROVIDE WOOD PANEL SUSPENDED CEILING SYSTEM AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES EXPOSED GRID SYSTEM, WALL ANGLE MOLDINGS, MAIN RUNNERS, GROSS TEES, SUSPENSION HANGERS/WIRES, FASTENERS, AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE SYSTEM.

a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, ASTM 6636, ASTM E580 (FOR SEISMIC RESTRAINT), CISCA'S "CEILING SYSTEMS HANDBOOK" AND CISCA'S "RECOMMENDATIONS FOR DIRECT-HING ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS" FOR SEISMIC ZONES 0-2. b. MATERIALS:

I. CURVED SUSPENSION SYSTEM: CURVED "U" PROFILE PRIMARY ANGLE; II-BAR SECTIONS OF COMMERCIAL GRADE EXTRUDED ALUMINUM WITH EXPOSED SURFACES CHEMICALLY CLEANSED; H-BARS SHALL BE SUSPENDED FROM PRIMARY ANGLE WITH HANGERS AND PLUG-IN GLIPS; ALL STEEL PARTS SHALL BE CHEMICALLY CLEANSED HOT DIPPED GALVANIZED; NOMINAL 1-1/2 INCHES DEEP; STRUCTURAL CLASSIFICATION IN ACCORDANCE WITH ASTM C635. 2. CURVED TEE BAR.

4. MANUFACTURER: ARMSTRONG SUSPENSION SYSTEM "WPG-I" WOODWORKS CURVED ACCESS OR 5. HANGER WIRE: SOFT TEMPERED; CLASS I ZING COATING; SIZED SO THAT STRESS AT THREE TIMES THE HANGER DESIGN LOAD, PER ASTM C635, TABLE I, DIRECT HUNG, WILL BE LESS THAN

3. WALL ANCHOR.

FIVE INCHES IN WIDTH.

THE YIELD STRESS OF THE WIRE. MINIMUM .0106 INCH DIAMETER (12 GAUGE). 6. WOOD PANELS: UN-PERFORATED, SMOOTH SURFACE TEXTURE, DURAFLAKE FR, CLASS A RATED FIRE-RETARDANT PARTICLE-BOARD. SURFACE FINISH: GRADE A, VENEER SPECIES, - VENEER CUT, VENEER MATCH, AND VENEER STAIN AS SELECTED BY OWNER OR OWNER'S

REPRESENTATIVE. SQUARE CUT EDGE. CLASS A ASTM E84, COMPLYING WITH ASTM 7. JOINT GASKETS: JOINTS ARE GASKETED WITH A 6mm GASKET. 8. MANUFACTURER: ARMSTRONG WOODWORKS WOOD VENEER CEILING PANELS, TYPE WPG-I OR

c. ACCESSORIES: I. FURNISH CUTOUTS FOR RECESSED LIGHT FIXTURES. 2. FURNISH EDGE BANDING FOR FIELD MODIFIED WOOD VENEER PANELS.

d. WITH EXCEPTION OF HANGER WIRES, THE ENTIRE SYSTEM SHALL BE FROM ONE SOURCE, FROM A — SINGLE MANUFACTURER. e. INSTALL SUSPENSION SYSTEM AND PANELS IN COMPLIANCE WITH ASTM C636, OBC SECTION 808 — AND IN ACCORDANCE WITH THE MANUFACTURER'S SHOP DRAWINGS AND PRINTED INSTALLATION

0912. PROVIDE FACTORY FINISHED HARDWOOD FLOORING WHERE INDIGATED ON THE DRAWINGS. INCLUDES PREPARING THE SUBSTRATE TO ACCEPT MATERIALS, EDGE STRIPS, TRANSITION STRIPS, TRIMS, MOISTURE BARRIER, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A

COMPLETE INSTALLATION. a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, b. MATERIAL

2. <del>Fastener: as recommended by the Plank Flooring Manufacturer.</del> 3. M<del>OISTURE BARRIER: TYPE AS RECOMMENDED BY THE PLANK FLOORING MANUFACTURER,</del> 4. PATCHING AND LEVELING COMPOUNDS: REFER TO THIS DIVISION: 5. TRANSITION STRIP: REFER TO THE ROOM FINISH SCHEDULE FOR TYPE AND LOGATION. INSTALL

AT CENTER LINE OF DOORS; COMPLY WITH ICC/AIIT.I, 2009. c. HARDWOOD MANUFACTURER: SHAW d. MEASURE EACH ROOM AREA AND ESTABLISH A PLANK LAYOUT THAT BALANCES BORDER WIDTHS AT OPPOSITE EDGES OF THE ROOM. NO PLANK SHALL BE LESS THAN THREE (3) IN. IN WIDTH. e. UNLESS OTHERWISE SPECIFIED BY THE PLANK FLOORING MANUFACTURER, BEGINNING A MINIMUM OF SEVEN DAYS PRIOR TO INSTALLATION, MAINTAIN AN AMBIENT TEMPERATURE BETWEEN 65 AND 18

DEGREES F AND RELATIVE HUMIDITY BETWEEN 40 PERCENT AND 50 PERCENT. MAINTAIN SPECIFIED FOR THE DURATION OF THE PROJECT. F. UNLESS OTHERWISE SPECIFIED BY THE PLANK FLOORING MANUFACTURER, THE MAXIMUM ALLOWABLE MOISTURE RATE IS THREE (3) lbs. PER 1000 SQUARE FEET IN A TWENTY-FOUR HOUR

a. EXPANSION SPACE AT WALL: PER PLANK FLOORING MANUFACTURER'S RECOMMENDATION. PROVIDE RESILIENT ITEMS AS INDICATED ON THE DRAWINGS. WORK INCLUDES PREPARING

SUBSTRATE, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE

INSTALLATION. a. FIRE-TEST-RESPONSE CHARACTERISTICS: PER ASTM E648; CRITICAL RADIANT FLUX CLASS I, NOT LESS THAN 0.45 Wsg. cm. b. COMPLY WITH ASTM F1861; TYPE TP (RUBBER THERMOPLASTIC); GROUP I (HOMOGENEOUS); 0.125

INCHES THICK; COVED; COILS IN MANUFACTURER'S STANDARD LENGTH; FIELD-FORMED CORNERS. I. BASE: 4 IN. HIGH AND 6 IN. HIGH WALL BASE, COVED AND STRAIGHT TYPES, WHERE INDICATED ON THE DRAWINGS.

2. TRANSITION: COMPLY WITH ICC/ANSI AIIT.I; TYPE TP; REFER TO THE DRAWINGS FOR LOCATION; INSTALL AT CENTER LINE OF DOORS. 3. ADHESIVE: AS RECOMMENDED BY THE MANUFACTURER; LIMIT VOC TO NOT MORE THAN 50 G/L. c. MANUFACTURER: JOHNSONITE, ROPPE, OR EQUAL.

d. COLOR AND STYLE: AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE FROM

MANUFACTURER'S STANDARDS. e. PREPARE SUBSTRATE IN ACCORDANCE WITH BASE MANUFACTURERS PRINTED INSTRUCTIONS TO ACHIEVE A SMOOTH, LEVEL SURFACE. WORK INCLUDES PREPARING WALLS, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE INSTALLATION. F. INSTALL RESILIENT BASE IN ACCORDANCE WITH MANUFACTURER PRINTED INSTRUCTIONS AND

INDUSTRY STANDARDS. INSTALL ALL REQUIRED ACCESSORIES FOLLOWING MANUFACTURER'S PRINTED INSTRUCTIONS. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM A SINGLE MANUFACTURER. PROTECT BASE TO PREVENT SOILING AND DAMAGE AFTER INSTALLATION UNTIL SUBSTANTIAL

0914. PROVIDE NON-SLIP TYPE VINYL COMPOSITION TILE (VCT) FLOORING AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES TESTING AND PREPARING NEW AND EXISTING CONCRETE FLOORS FOR ACCEPTANCE OF MATERIALS. TRANSITIONS, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE

a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, ASTM F710 AND RFGI-IP NO. 2. FURNISH TRANSITION WHERE INDICATED AND IF NOT INDICATED WHERE DISSIMILAR b. MATERIAL:

SIZE 12 INCH X 12 INCH; REFER TO THE ROOM FINISH SCHEDULE FOR BLENDING REQUIREMENTS.

2. PRIMER: TYPE AS RECOMMENDED BY THE TILE MANUFACTURER. 3. <del>Patching and Leveling compounds: Refer to this division.</del> 4. ADHESIVE: NON-SOLVENT, WATER BASED, WATER RESISTANT AS RECOMMENDED BY THE TILE MANUFACTURER, LOW YOC.

d. GOLOR, STYLE, AND BLENDING REQUIREMENTS AS SELECTED BY OWNER OR OWNER'S

e. TRANSITION: REFER TO THIS SECTION. F. MEASURE EACH ROOM AREA AND ESTABLISH A LAYOUT OF TILES THAT BALANCES BORDER WIDTHS AT OPPOSITE EDGES OF THE ROOM. NO TILE SHALL BE LESS THAN 6 INCHES WIDTH:

q. CONFORM TO RECI-TM-6 FOR JOINT TIGHTNESS AND CORNER INTERSECTIONS.

5. POLISH: AS RECOMMENDED BY THE TILE MANUFACTURER.

c. TILE MANUFACTURER: ARMSTRONG, MANNINGTON OR EQUAL

0915. PROVIDE NON-SLIP RESILIENT FLOORING AS INDIGATED ON THE DRAMINGS. INCLUDES PREPARING SUBSTRATE TO ACCEPT MATERIALS, TRANSITIONS, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE INSTALLATION. COMPLY WITH ASTM FITOO CLASS III,

TYPE B AND ANSI AI264.2 a. FIRE TEST RESPONSE CHARACTERISTICS: PER NFPA IOI, CLASS I; CRITICAL RADIANT FLUX CLASSIFICATION NOT LESS THAN 0.45 W/sq. cm. AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E648 BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE AHJ: SMOKE DENSITY LESS THAN 450 WHEN TESTED IN ACCORDANCE WITH ASTM E662.

ACCORDANCE WITH ANSI BIOLS AND ASTM F2913. . MINIMUM STATIC COEFFICIENT OF FRICTION (SCOF) OF 0.60 WHEN MEASURED AND TESTED IN ACCORDANCE WITH ANSI BIOLI AND ASTM D2047.

b. MINIMUM DYNAMIC COEFFICIENT OF FRICTION (DCOF) OF 0.42 WHEN MEASURED AND TESTED IN

d. MATERIAL I. <del>LUXURY VINYL PLANK (LVP)</del>

a) BACKING: ASTM F1303; TYPE I, MINIMUM BINDER CONTENT OF 40 PERCENT; WEAR LAYER THICKNESS GRADE I; BACKING CLASS B, NON-FOAMED PLASTIC.

b) WEAR LAYER THICKNESS: MINIMUM 0.20 INCHES c) OVERALL THICKNESS: MINIMUM 0.125 INCHES

d) FINISH: UV-CURED POLYURETHANE

e) <del>WIDTH: MANUFACTURER'S STANDARD</del> f) COLOR/STYLE AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD.

PRIMERS AND ADHESIVE: NON-SOLVENT BASED; YOG CONTENT OF NOT MORE THAN 50 G/L WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24); WATER RESISTANT; MILDEM RESISTANT; NON-STAINING; AS RECOMMENDED BY THE RESILIENT FLOORING

MANUFACTURER; COMPLY WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED RESILIENT. 3. LEVELING AND PATCHING COMPOUNDS: REFERENCE SPECIFIC REQUIREMENTS IN THIS DIVISION: e. MANUFACTURER: ARMSTRONG, NATURAL CREATIONS, ARBORART; OR APPROVED EQUAL.

WARRANTY: MINIMUM TEN YEAR WEAR. . THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS

- I. COMPLY WITH ASTM F710 SPECIFICATIONS WHERE REQUIRED. -2. PREPARE SUBSTRATE AS NECESSARY TO ACHIEVE SMOOTH, LEVEL SURFACE WITHOUT HOLES, 

h. GLEAN AND INSPECT SUBSTRATE SURFACES BEFORE INSTALLING ANY RESILIENT FLOORING:

— 3. INSTALL RESILIENT FLOORING ACCORDING TO THE MANUFACTURER'S PRINTED INSTALLATION 4. GLEAN INSTALLED FLOORING TO CONFORM TO MANUFACTURER'S REQUIREMENTS:

— 5. PROTECT FLOORING FROM DAMAGE UNTIL SUBSTANTIAL COMPLETION.

 a. PROVIDE CARPET SHEETS, CARPET TILES, CARPET "WALK-OFF" TILES, EDGE STRIPS, — ACCESSORIES, ADHESIVES, TAPES, ETC, AT LOCATIONS INDICATED ON THE DRAWINGS: I. GARPET MUST CONFORM TO THE REQUIREMENTS OF OBG CHAPTERS TO AND II, AND ICC/ANSI AII7.I STANDARDS.

2. CARPET IN CORRIDORS, VERTICAL EXITS AND PASSAGEWAYS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E648 AND ASTM E662 TESTING REQUIREMENTS: b. ALL CARPET MUST PASS THE DOC FF-I "PILL TEST."

I. FURNISH A COPY OF ALL TESTING DATA FOR ANY CARPET TO THE AUTHORITY HAVING JURISDICTION CODE OFFICIAL. c. COMPLY WITH THE APPLICABLE PROVISIONS AND RECOMMENDATIONS OF THE FOLLOWING

I. THE CARPET AND RUG INSTITUTE (CRI) "THE CARPET SPECIFIERS' HANDBOOK." 2. CRI "CRI 104 COMMERCIAL CARPET INSTALLATION STANDARDS," d. MANUFACTURER: SHAW CONTRACT GROUP, LEES COMMERCIAL, J. & J. INDUSTRIES, MANNINGTON

I. COLOR AND STYLE: SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. 2. FIBER CONTENT: NYLON 66.

- 3. PILE CHARACTERISTICS: NO OVER-TUFTING. 4. DYE PROCESS: SOLUTION-DYE OR INJECTION-DYE. e. CARPET MANUFACTURER'S WARRANTY: WARRANTY PERIOD TO BE TEN (10) YEARS: F. COORDINATE INSTALLATION OF CARPET SO AS NOT TO DELAY THE OCCUPANCY OF THE SITE OR

MILLS, MILLIKEN GROUP, PATGRAFT, MOHAWK GARPET, TRETFORD, INTERFAGE, OR EQUAL.

- INTERFERE WITH THE COMPLETION OF THE WORK a. VERIFY AND DOCUMENT RECOMMENDED LIMITS FOR MOISTURE CONTENT AND ALKALINITY OF CONCRETE SUBSTRATES; FURNISH REPORT(S) TO OWNER . MOISTURE CONTENT: VERIFY MOISTURE CONTENT USING STANDARD CALCIUM CHLORIDE

CRYSTAL TEST OR A I SQUARE YARD CLEAR PLASTIC TEST, PERFORM TESTING AT A

FREQUENCY AS RECOMMENDED BY THE MANUFACTURER. 2. ALKALINITY TEST: VERIFY ALKALINITY OF CONCRETE SUBSTRATES BY DRILLING A 3/8 INCH DIAMETER HOLE APPROXIMATELY I/4 INCH DEEP, REMOVE ALL RESIDUE, FILL WITH DISTILLED WATER, ALLOW WATER TO STAND FOR 3 MINUTES AND TEST WITH A GALIBRATED

<del>- ELECTRONIC METER OR Ph PAPER. PERFORM TESTING AT A FREQUENCY OF NOT LESS THA</del> ONCE EVERY 1,000 SQUARE FEET. h. INSTALL CARPET MATERIALS AND ACCESSORIES TO COMPLY WITH THE MANUFACTURER'S PRINTED - INSTRUCTIONS AND SPECIFIED INDUSTRY STANDARDS. APPLY ADHESIVES IN ACCORDANCE WITH

ADHESIVE MANUFACTURER'S PRINTED DIRECTIONS. I. CLEAN, AND REMOVE ADHESIVES, STAINS AND SOIL SPOTS IN ACCORDANCE WITH - MANUFACTURER'S PRINTED INSTRUCTIONS AND RECOMMENDATIONS. 1. PROTECT CARPETING AGAINST OF EVERY KIND AS DAMAGED CARPETING SHALL BE REJECTED.

I. PLASTIC AND POLYETIMLENE SHEET PROTECTIVE COVERINGS SHALL NOT BE PERMITTED.

USE NON-STAINING COVER MATERIAL, WITH TAPED JOINTS, FOR PROTECTION.

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> of VPL Architects, Inc., and may not be written consent of the Architect

COMMISSION

ISSUE MARK DATE 4-5-21

DRAWN BY: NJP, SML

Expiration Date: December 31, 2021

**GENERAL NOTES** 

DIVISION 8

STEPHEN

M. LUCHTENBERG

8546

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PAI<del>NTING - GENERAL REQUIREMENTS</del>

INTERIOR AND EXTERIOR SCHEDULED SURFACES AND ITEMS. 2. FINISH PAINT ALL SHOP PRIMED STRUCTURAL STEEL, METAL FABRICATIONS AND STEEL

3. TOUCH UP ALL PAINTED AND COATED ITEMS AND MATERIALS WHERE MARRED BY CONSTRUCTION AFTER INITIAL PAINTING HAS BEEN PERFORMED.

4. PROVIDE PRIMERS AND UNDERCOAT PAINTS PRODUCED BY THE SAME MANUFACTURER AS

4.I. ALL PRIMERS, UNDERCOAT AND FINISH COATS TO BE LEAD FREE AND HAVE THE LOWEST POSSIBLE VOC. 4.2. ALL FINISH COATS SHALL BE MOLD AND MILDEW RESISTANT, 5. PERFORM NO PAINTING OR STAINING WORK UNTIL ALL CONSTRUCTION ACTIVITIES

INVOLVING OR CAUSING MOISTURE, DUST OR AIRBORNE DEBRIS IN ADJACENT AREAS

HAVE BEEN COMPLETED, AND THE MOISTURE, DUST AND DEBRIS INVOLVED HAS 6. PROVIDE HEAT AND VENTILATION AS REQUIRED TO MAINTAIN INTERIOR TEMPERATURE BETWEEN 55 AND 90 DEGREES F., AND TO MAINTAIN INTERIOR HUMIDITY LEVEL BETWEEN

20% AND 40%. AFTER PAINTING, CONTRACTOR IS TO MAINTAIN THIS INTERIOR ENVIRONMENT FOR THE DURATION OF THE PROJECT. 6.1. MAINTAIN MANUFACTURER'S SPECIFIED MINIMUM VENTILATION RATE REQ'D FOR

INTERIOR APPLICATIONS OF THE SPECIFIC COATING BEING APPLIED. 7. PERFORM SURFACE PREPARATION AND CLEANING PROCEDURES IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN DIRECTIONS AND SPECIFICATIONS. 8. PERFORM ALL APPLICATION WORK WITH MINIMUM IS FOOTCANDLE LEVEL OF LIGHT AT

SURFACE BEING COATED. 9. PROTECT FINISHED SURFACES FROM DAMAGE UNTIL FINAL ACCEPTANCE OF THE BUILDING BY THE OWNER.

IO. AT EXTERIOR FIBER-CEMENT WOOD SIDING AND TRIMS: USE ONLY MANUFACTURER'S SPECIFIED PRODUCTS FOR END-CUT SEALING AND TOUCH-UP. II. MIX, PREPARE AND APPLY PAINT AND FINISH TREATMENT IN STRICT ACCORDANCE WITH

MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. 12. PAINTS, STAINS AND FINISHES BY SHERWIN WILLIAMS COMPANY, OR EQUAL PRODUCTS BY PRATT AND LAMBERT, INC., BENJAMIN MOORE & CO., DEAN AND BARRY, INC., GLIDDEN, OR A MANUFACTURER AS SELECTED BY THE OWNER.

EXTERIOR PAINTING (SHERWIN WILLIAMS PRODUCTS LISTED) I. PAINTED MASONRY, CONCRETE AND STUCCO

I.I. BLOCK FILL COAT: SW LOXON BLOCK SURFACER

I.2. FINISH COATS: SM LOXON XP OPAQUE WATERPROOFING SYSTEM - 2 FINISH COATS OVER BLOCK FILL 2. PAINTED FERROUS METAL - FULL GLOSS ALKYD ENAMEL - 2 FINISH COATS AND I PRIME COAT OVER SHOP PRIME.

2.I. PRIME COAT: SW KEM KROMIK METAL PRIMER B50N2 / WI 2.2. FINISH COATS: SW INDUSTRIAL ENAMEL B54 SERIES 3. PAINTED ZINC-COATED METAL WITH HIGH GLOSS ALKYD ENAMEL - 2 FINISH COATS OVER

PRIME COAT. 3.I. PRIM COAT: SW GALVITE B50 W3 3.2. FINISH COATS: SW MEALASTIC II ENAMEL B53 SERIES. c. INTERIOR PAINTING (SHERWIN WILLIAMS PRODUCTS LISTED)

 SURFACES NOT TO BE PAINTED: I.I. ITEMS NOT SCHEDULED TO BE PAINTED. I.2. PREFINISHED FLOORS, WALLS AND CEILING COVERINGS

I.3. PREFINISHED METALS I.4. GYP BOARD CEILINGS ABOVE SUSPENDED ACOUSTICAL CEILINGS UNLESS OTHERWISE

1.5. ITEMS WITH FACTORY APPLIED FINISH COATING, EXCEPT AS SPECIFICALLY OTHERWISE NOTED.

2. PAINTED GYPSUM WALLBOARD WITH FLAT LATEX FINISH: 2 FINISH COATS OVER PRIME

2.I. PRIME COAT: SW PRO-MAR 200 LATEX WALL PRIMER 2.2. FINISH COATS: SM PRO-MAR 200 LATEX FLAT

2.2.I. PROVIDE ONLY ONE FINISH COAT OVER PRIMER IN CLOSETS 3. PAINTED GYPSUM WALLBOARD WITH LOW GLOSS FINISH: 2 FINISH COATS OVER PRIME COAT WITH TOTAL DRY FILM THICKNESS NOT LESS THEN 2.5 MILS. 3.I. TYPICALLY IN ALL RESTROOMS, VESTIBULES AND KITCHEN; ELSEWHERE AS NOTED IN

ROOM FINISH SCHEDULE. PRIOR TO APPLICATION, VERIFY WITH OWNER FOR POTENTIAL ADDITIONAL AREAS. 3.2. PRIME COAT: SW PRO-MAR 200 LATEX WALL PRIMER 3.3. FINISH COATS: SM PR-MAR 200 ALKYD LOW GLOSS ENAMEL

4. PAINTED FERROUS METAL WITH SEMI-GLOSS ENAMEL FINISH: 2 FINISH COATS OVER PRIMER WITH TOTAL DRY FILM THICKNESS NOT LESS THAN 3,4 MILS. 4.1. PRIME COAT: SW KERN KROMIK METAL PRIMER B50N2 / WI 4.2. FINISH COATS: SW PRO-MAR 200 ALKYD SEMI-GLOSS 5. PAINTED ZINC-COATED METAL: 2 FINISH COATS OVER PRIME COAT

5.I. PRIME COAT: SW GALVITE B50M3 5.2. FINISH COATS: SW PRO-MAR 200 ALKYD SEMI-GLOSS. 6. PAINTED WOOD WITH SEMI GLOSS ENAMEL FINISH: 2 FINISH COATS OVER UNDERCOAT WITH

TOTAL DRY FILM THICKNESS NOT LESS THAN 3.4 MILLS. 6.I. UNDERCOAT: SW PRO-MAR 200 ALKYD ENAMEL UNDERCOATER

6.2. FINISH COATS: SW PRO-MAR 200 ALKYD SEMI-GLOSS 7. STAINED AND VARNISHED WOOD: NOT LESS THAN 2.0 MILS DRY FILM THICKNESS OF FINISH COATING

7.I. ONE COAT SW WOOD STAIN MINWAX INTERIOR STAIN 7.2. TWO COATS SW MINWAX SELF SEALING SATIN POLYURETHENE.

1.2.I. BETWEEN POLYURETHENE COATS, LIGHTLY SAND SMOOTH WITH 150 TO 180 GRIT SANDPAPER.

8. PAINTED MASONRY, CONCRETE AND STUCCO 8.I. BLOCK FILL COAT: SW LOXON BLOCK SURFACER

8.2. FINISH COATS: SW LOXON XP OPAQUE WATERPROOFING SYSTEM - 2 FINISH COATS OVER BLOCK FILL

1000. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES.

a. SIGNAGE b. TOILET ACCESSORIES c. TOILET COMPARTMENT PARTITIONS

d. FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHERS

e. METAL LOCKERS

F. STORAGE SHELVING q. <del>FLAG POLE</del> IOOI. PROVIDE ARCHITECTURAL INTERIOR SIGNAGE OF TYPE, SIZE, AND DESIGN AS SHOWN ON THE

DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. SIGNAGE SHALL MEET REQUIREMENTS OF THE OBC, ICC/ANSI AIIT.I, AND THE OWNER. a. REFERENCE DRAWING SHEET HOLOO FOR SPECIFIC ACCESSIBILITY REQUIREMENTS b. TACTILE AND BRAILLE CHARACTERS, RAISED MINIMUM 1/32 INCHES. CHARACTERS SHALL BE

ACCOMPANIED BY GRADE-2 BRAILLE. c. TYPE STYLES: CHARACTERS SHALL BE UPPERCASE, HELVETICA MEDIUM, HELVETICAL MEDIUM

CONDENSED AND HELYETICA REGULAR. d. CHARACTER HEIGHT: 5/8 INCHES HIGH, MAXIMUM 2 INCHES.

ADDRESS (LETTERS OR NUMBERS): 4 INCHES MINIMUM.

e. SYMBOLS (PICTOGRAMS): EQUIVALENT WRITTEN DESCRIPTION SHALL BE PLACED DIRECTLY BELOW SYMBOL, OUTSIDE OF SYMBOL'S BACKGROUND FIELD. BORDER DIMENSIONS OF SYMBOL BACKGROUND SHALL BE MINIMUM 6 INCHES HIGH.

F. FINISH AND CONTRAST: CHARACTERS AND BACKGROUND SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH WITH ADEQUATE CONTRAST WITH BACKGROUND.

I. CAST ACRYLIC SHEET: MIL-PRF-6184F; TYPE II, CLASS I; WATER WHITE NON-GLARE OPTICALLY CLEAR. MATT FINISH WATER WHITE CLEAR ACRYLIC WILL NOT BE ACCEPTABLE.

2. POLYCARBONATE: MIL-P-46144C; TYPE I, CLASS I. 3. ANCHORAGE: CONCEALED; AS RECOMMENDED BY THE MANUFACTURER. 4. COLOR(S): AS SELECTED BY THE OWNER.

h. PROVIDE SIGNS AND SIGNAGE TYPES AS SCHEDULED ON THE DOOR AND HARDWARE SCHEDULE. 1. BANKING EQUIPMENT SIGNS WILL BE PROVIDED BY THE OWNER'S BES, INSTALLED BY THIS - CONTRACTOR, VERIFY WITH OWNER.

FURNISH ALL REQUIRED SIGNAGE FROM THE SAME MANUFACTURER. MANUFACTURER: AMERICAN GRAPHICS, INC., ASI SIGN SYSTEMS, INC., GRIMCO, INC., MOHAWK SIGN

SYSTEMS, SIGNATURE SIGNS, INC. OR EQUAL. I. INSTALL EACH TYPE OF SIGN IN ACCORDANCE MANUFACTURER'S WRITTEN INSTALLATION

I. MOUNT SIGNS IN PROPER ALIGNMENT, LEVEL AND PLUMB. SIGNS SHALL BE INSTALLED WHERE BEST SUITED TO PROVIDE A CONSISTENT APPEARANCE THROUGHOUT THE PROJECT.

2. PAINT AND TOUCH-UP ANY EXPOSED FASTENERS AND CONNECTING HARDWARE TO MATCH COLOR AND FINISH OF SURROUNDING FINISH.

m. PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION n. MOUNT SIGNAGE TO DOOR AT CENTERLINE OF DOOR. HOLD TOP OF HIGHEST TACTILE CHARACTER AT 60" ABOVE FINISH FLOOR.

1002. FURNISH PARKING SIGNS, EXTERIOR BANKING TRAFFIC SIGNS, AND TRAFFIC SIGNS WHERE REQUIRED INDICATED AND SPECIFIED. SIGNS OF TYPE, SIZE AND DESIGN AS REQUIRED BY THE OBC, THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT), OSHA, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CODE OF FEDERAL REGULATIONS (CFR), INTERNATIONAL ORGANIZATION OF

STANDARDIZATION (ISO), ICC/ANSI AIIT.I, AND THE OWNER. a. TYPE STYLES: CHARACTERS SHALL BE UPPERCASE, WITH FONT STYLE AS REQUIRED BY ICC/ANSI AIIT.I. ODOT AND THE SIGN MANUFACTURER.

b. CHARACTER HEIGHT: AS REQUIRED BY ICC/ANSI AII7.I, ODOT AND THE SIGN MANUFACTURER. d. SYMBOLS (PICTOGRAMS): AS REQUIRED BY ICC/ANSI AIIT., ODOT AND THE SIGN MANUFACTURER. e. FINISH AND CONTRAST: WHITE BAKED ENAMEL SURFACE WITH SCREEN PRINT COPY, SYMBOLS AND

f. SIGN MATERIAL: 0.08 INCHES THICK, ALUMINUM SHEET WITH STRENGTH AND DURABILITY OF 5005-HI5. CORNERS SHALL HAVE I INCH RADIUS. I. U-CHANNEL POSTS: SIGN MANUFACTURER'S STANDARD, GALVANIZED STEEL, & FOOT LONG,

USING STANDARD MOUNTING HARDWARE OF GALVANIZED STEEL CARRIAGE BOLTS. BANKING TRAFFIC SIGNS AND MOUNTING COMPONENTS: FURNISHED BY OWNER'S BES AND AS

SELECTED BY THE OWNER. I. INSTALLATION SHALL BE BY THIS CONTRACTOR. 2. MANUFACTURER: BES STANDARD.

h. FURNISH ALL REQUIRED SIGNAGE FROM THE SAME MANUFACTURER. I. MANUFACTURER: BEST SIGN SYSTEMS, INC., BARCO PRODUCTS, BRIMAR INDUSTRIES, INC. (SAFETY

INSTALL EACH TYPE OF SIGN IN ACCORDANCE MANUFACTURER'S WRITTEN INSTALLATION

I. MOUNT SIGNS IN PROPER ALIGNMENT, LEVEL AND PLUMB. SIGNS SHALL BE INSTALLED WHERE BEST SUITED TO PROVIDE A CONSISTENT APPEARANCE THROUGHOUT THE PROJECT. 2. PAINT AND TOUCH-UP ANY EXPOSED FASTENERS AND CONNECTING HARDWARE TO MATCH

COLOR AND FINISH OF SURROUNDING FINISH. 1003. PROVIDE TOILET ACCESSORIES AS INDICATED ON THE DRAWINGS AND IN COMPLIANCE WITH OBC

CHAPTER II, AND ICC/ANSI AII7.I-2009. INCLUDES SURFACE PREPARATION, CONTINUOUS AND CONCEALED WOOD BLOCKING, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND ICC/ANSI AII7.I-2009.

b. MANUFACTURER: BOBRICK, BRADLEY, TRUEBRO, OR APPROVED EQUAL.

c. MATERIAL (ALL MODEL NUMBERS ARE BOBRICK) TOILET PAPER DISPENSER: RECESSED; TWO ROLL GAPACITY, STAINLESS STEEL; B-6977. 2. TOILET PAPER DISPENSER: SURFACE MOUNTED; TWO ROLL CAPACITY, 304 STAINLESS STEEL,

3. PAPER TOWEL/MASTE RECEPTACLE: RECESSED; "C" FOLD TOWEL; 12 GAL WASTE CONTAINER;

4. PAPER TOWEL/WASTE RECEPTACLE: SURFACE MOUNTED, 304 STAINLESS STEEL, BATTERY OPERATED, ELECTRONIC SENSOR ACTIVATED, COMBO 8" DIA PAPER TOWEL ROLL DISPENSER AND TRASH RECEPTACLE; B-3979,

5. ADA ELECTRIC HAND DRYER: SURFACE MOUNT AT 48" AFF, 304 STAINLESS STEEL, SENSOR 6. LIQUID SOAP DISPENSER: WALL MOUNT AT 52" AFF TO TOP OF UNIT, 304 STAINLESS STEEL,

BATTERY OPERATED, SENSOR ACTIVATED; B-2012. 7. HAND SANITIZER DISPENSER: WALL MOUNT AT 52" AFF TO TOP OF UNIT, 304 STAINLESS STEEL,

BATTERY OPERATED, SENSOR ACTIVATED; B-2012. 8. MIRROR: SURFACE MOUNT; WELDED STAINLESS STEEL FRAME; 24 INCH X 36 INCH; B-290 2436. 9. SANITARY NAPKIN TRASH RECEPTACLE: RECESSED WITHIN TOILET STALL PARTITION

(ACCESSIBLE FROM TOILET STALL ON BOTH SIDES), 304 STAINLESS STEEL; B-354. IO. SEAT COVER DISPENSER: SURFACE MOUNT WITH TOP AT 45" AFF, 304 STAINLESS STEEL;

II. GRAB BAR(S): I-I/2 INCH DIAMETER; SNAP FLANGE, STAINLESS STEEL, BOBRICK 6800 SERIES. SIZE AND MOUNTING AS ILLUSTRATED ON SHEET ADA.

12. BABY CHANGING STATIONS: WALL MOUNTED, FOLD DOWN, POLYPROPYLENE, PNEUMATIC CYLINDER OPERATION, CONCEALED HINGE STRUCTURE, BUILT-IN LINER DISPENSER, MEETS CRITERIA IN 2009 ICC AIIT.I. ANSI 2535, ASTM G22, ASTM F 2285-04; KOALA BEAR B-200 SERIES, COLOR AS SELECTED. INSTALL WITH TOP OF HORIZONTAL CHANGING SURFACE AT 33"

13. MIRRORS: SEE INTERIOR ELEVATIONS. 14. ADA INSULATING PIPE WRAP PROTECTION FOR ALL WATER SUPPLY AND DRAIN PIPES THAT ARE EXPOSED BELOW ALL HAND SINKS: TRUEBRO 82525. 15. FASTENERS: AS RECOMMENDED BY THE MANUFACTURER.

16. WOOD BLOCKING AT DRYWALL PARTITIONS: MINIMUM 2x8 (NOM.) AT GRAB BAR; ALL OTHERS 2x6 (NOM.).

d. INSTALL EACH TYPE OF ACCESSORY IN ACCORDANCE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. SECURELY ANCHOR ACCESSORIES TO WALL CONSTRUCTION. I. FURNISH, SECURELY ATTACH, 2x WOOD BLOCKING TO STRUCTURE, HIDDEN BEHIND GYPSUM

BOARD, FOR ALL SURFACE MOUNTED ACCESSORIES UNLESS NOTED OTHERWISE: MOUNT ACCESSORIES IN PROPER ALIGNMENT, STRAIGHT, LEVEL AND PLUMB.

3. PROVIDE CONCEALED FASTENING WHEREVER POSSIBLE.

4. FASTENERS THAT ARE NOT ACCEPTABLE: SHEET METAL SCREWS AND LEAD, WOOD, OR PLASTIC PLUGS.

1004. PROVIDE BAKED ENAMEL METAL TOILET PARTITIONS AS SHOWN AND SPECIFIED. WORK INCLUDES: a. FACTORY FINISHED FLOOR MOUNTED HEAD-RAL BRACED TOILET PARTITIONS.

b. HARDWARE, ACCESSORIES, FASTENERS, AND ANCHORING DEVICES. c. CONFORM TO FOLLOWING REFERENCE STANDARDS FOR ACCESSIBILITY (HANDICAPPED)

I. INTERNATIONAL CODE COUNCIL (ICC)/AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): a) ICC/ANSI AIIT.I ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

 d. PROVIDE PRODUCTS AND ACCESSORIES FROM SINGLE SOURCE FOR THE ENTIRE PROJECT. e. PROVIDE SETTING DRAWINGS, TEMPLATES, AND INSTRUCTIONS FOR INSTALLATION OF ANCHORAGE DEVICES AND OTHER WORK. I. FURNISH ANCHORING DEVICES.

f. MANUFACTURERS:

PILASTERS.

GYPSUM BOARD.

ASI GROUP, INTEGRATED BUILDING PRODUCTS 2. COLUMBIA PARTITIONS SYSTEMS

3. GENERAL PARTITIONS MFG. CORP. 4. GLOBAL STEEL PRODUCTS CORP.

a. WALL AND DOOR PANELS

I. DOUBLE WALL CONSTRUCTED, I-INCH THICK WITH TWO SHEETS OF NOT LESS THAN 20-GAUGE, 22-GAUGE FOR DOOR PANEL, GALVANIZED AND BONDERIZED STEEL FORMED AND WELDED TOGETHER BEFORE ATTACHING DIE DRAWN MOLDING ON ALL FOUR SIDES. FURNISH MITERED REINFORCEMENTS FUSED TO CORNERS FOR ADDED STRUCTURAL STRENGTH. FURNISH SOUND-DEADENING HONEY-COMB CORE FILLER.

a) STANDARD STALL DOORS: MINIMUM 24-INCHES WIDE. b) ACCESSIBILITY (HANDICAPPED) STALL DOORS: MINIMUM 32-INCHES WIDE (CLEAR

PILASTERS DOUBLE WALL CONSTRUCTED, I-I/4 INCHES THICK WITH TWO SHEETS OF NOT LESS THAN 20-GAUGE GALVANIZED AND BONDERIZED STEEL FORMED AND WELDED TOGETHER BEFORE ATTACHING DIE DRAWN MOLDING ALL FOUR SIDES, FURNISH MITERED REINFORCEMENTS FUSED TO CORNERS FOR ADDED STRUCTURAL STRENGTH, FURNISH SOUN-DEADENING HONEY-COMB

2. PILASTER TRIM: ASTM A240 AISI TYPE 302/304 STAINLESS STEEL ONE-PIECE, 20 GAUGE, MINIMUM 3 INCHES HIGH, FINISHED TO MATCH HARDWARE.

HEADRAIL BRACING: ASTM B22I EXTRUDED ALUMINUM, ANTI-GRIP DESIGN, SATIN ANODIZED FINISH. STIRRUP BRACKETS: MANUFACTURER'S STANDARD DESIGN FOR ATTACHING PANELS TO SUBSTRATE AND PILASTERS. HEAVY DUTY. SATIN FINISH STAINLESS STEEL CHROMIUM-PLATED OR HEAT-TREATED EXTRUDED ALUMINUM WITH ANODIZED FINISH.

k. HARDWARE: MANUFACTURER'S STANDARD DESIGN, HEAVY DUTY OPERATING HARDWARE, SATIN FINISH STAINLESS STEEL OR POLISHED CHROMIUM-PLATED NON-FERROUS CAST ALLOY. I. PROVIDE HARDWARE FOR EACH COMPARTMENT IN THE PARTITION SYSTEM. 2. HINGES: HEAVY DUTY APPLIED OR CUTOUT INSET TYPE, ADJUSTABLE TO HOLD DOOR OPEN AT

ANY ANGLE UP TO 90 DEGREES. PROVIDE GRAVITY TYPE, SPRING-ACTION CAM TYPE, OR CONCEALED TORSION ROD TYPE, TO SUIT MANUFACTURER'S STANDARDS. 3. LATCH AND KEEPER: MANUFACTURER'S STANDARD SURFACE MOUNTED SLIDE BAR LATCH UNIT, DESIGNED FOR HANDICAPPED ACCESSIBILITY, WITH COMBINATION DOOR STOP AND

4. DOOR PULLS: MANUFACTURER'S STANDARD UNIT AT SWING-OUT DOORS. PROVIDE PULLS ON BOTH FACES OF HANDICAP COMPARTMENT DOORS. 5. ON INSWINGING STALL DOORS, MOUNT COMBINATION COAT HOOK / RUBBER-TIPPED BUMPER

6. ON OUTSWINGING STALL DOORS, MOUNT RUBBER TIPPED BUMPER TO OUTSIDE FACE OF DOOR AT 48" AFF, AND MOUNT STANDARD COAT HOOK TO INSIDE FACE OF DOOR AT 45" AFF. 7. PROVIDE HINGE BRACKETS AND DOOR LATCHES THROUGH BOLTED THROUGH PANELS AND

8. PROVIDE DOOR HARDWARE FACTORY MOUNTED. ANCHORAGES AND FASTENERS: MANUFACTURER'S STANDARD EXPOSED FASTENERS OF STAINLESS STEEL, CHROMIUM-PLATED STEEL OR BRASS FINISH TO MATCH HARDWARE. PROVIDE SHOULDER SCREWS AND SEX NUTS FOR THROUGH BOLTS, USE THEFT-RESISTANT TYPE HEADS AND NUTS FOR EXPOSED SCREWS. FOR CONCEALED ANCHORS, USE HOT-DIP GALVANIZED, CADIUM-PLATED OR OTHER RUST RESISTANT PROTECTIVE COATED STEEL I. ANCHORS AND FASTENERS FOR MOUNTING TO BUILDING SUBSTRATE.

a) PROVIDE EXPANSION ANCHORS, TOGGLE BOLTS, HOLLOW WALL ANCHORS OR OTHER APPROVED TYPE ANCHORS OR FASTENERS. WOOD, LEAD, AND PLASTIC PLUGS ARE NOT FINISH: PANEL, DOOR AND PILASTER FINISH SHALL CONSIST OF FACTORY APPLIED PRIME COAT

AND FINISHED COLOR COAT OF HIGH SOLID POLYESTER ENAMEL BAKED AT 350 DEGREES F. TO ENSURE A SMOOTH PROTECTIVE FINISH. I. COLOR SELECTED BY OWNER FROM STANDARD COLOR CHARTS.

INSTALL PARTITIONS RIGID, STRAIGHT, PLUMB AND LEVEL, IN PANEL LAYOUT INDICATED. PROVIDE CLEARANCES OF NOT MORE THAN 1/2 INCH BETWEEN PILASTERS AND PANELS, AND NOT MORE THAN I INCH BETWEEN PANEL AND BUILDING SUBSTRATE, PROVIDE UNIFORM CLEARANCE AT VERTICAL EDGES OF DOORS FROM TOP TO BOTTOM NOT EXCEEDING 3/16 INCH. SECURE PANELS TO BUILDING SUBSTRATE, AND TO PILASTERS WITH RECOMMENDED

2. FLOOR MOUNTED HEADRAIL BRACED PARTITIONS: SECURE PILASTERS, LEVEL AND PLUMB WITH HEADRAIL ASSEMBLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 3. FURNISH, SECURELY ATTACH, 2x (NOM.) WOOD BLOCKING TO STRUCTURE, CONCEALED BEHIND

1005. PROVIDE FIRE EXTINGUISHERS, SURFACE MOUNTED, REGESSED GABINET MOUNTED AND SEMI-REGESSED GABINET MOUNTED WHERE INDICATED AND SPECIFIED. FURNISH FIRE RESISTANCE RATED GABINETS WHERE REQUIRED AND SPECIFIED. ALL FIRE EXTINGUISHERS SHALL BE MULTI-PURPOSE (MP) DRY-CHEMICAL TYPE IN STEEL CYLINDER AND SHALL HAVE A U.L. RATING. ALL FIRE EXTINGUISHERS SHALL BE FULLY LOADED, TESTED, AND "TAGGED" READY FOR USE. FURNISH THE FOLLOWING FIRE EXTINGUISHERS FOR THE NOTED LOCATIONS:

a. U.L. 2A-IOB: GFIRE EXTINGUISHER. IN REGESSED AND SEMI-REGESSED GABINET. I. CABINET: LARSEN'S ARCHITECTURAL SERIES MODEL No. FS 2409 R3. b. IO LB ABC FIRE EXTINGUISHER, WALL MOUNTED AT LOCATIONS AS INDICATED. MOUNT AT HEIGHT IN

ACCORDANCE WITH ICC/ANSI AIIT.I REQUIREMENTS. c. FURNISH FIRE EXTINGUISHER CYLINDERS, SURFACE MOUNTING HARDWARE AND CABINETS FROM THE SAME MANUFACTURER. SURFACE MOUNTING HARDWARE TO BE MANUFACTURER'S STANDARD

d. FURNISH ALL CODE ASSOCIATED SIGNAGE AFFIXED TO WALL ABOVE FIRE EXTINGUISHER.

e. MANUFACTURER: LARSEN MANUFACTURING, J. L. INDUSTRIES, OR EQUAL. F. FIRE EXTINGUISHERS SHALL CONFORM TO THE REQUIREMENTS OF OBC SECTION 906. a. INSTALL FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS IN ACCORDANCE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. SECURELY ANCHOR TO WALL

1006. PROVIDE FACTORY FORMED, BAKED ENAMEL FINISHED METAL LOCKERS AS SHOWN ON THE

CONSTRUCTION. I. FURNISH, SECURELY ATTACH, 2x WOOD BLOCKING TO STRUCTURE, CONCEALED BEHIND GYPSUM BOARD, FOR ALL SURFACE MOUNTED FIRE EXTINGUISHERS UNLESS NOTED OTHERWISE. 2. SECURELY ANCHOR BRACKETS AND CABINETS TO SUBSTRATE CONSTRUCTION WITH TOGGLE

BOLTS OR EXPANSION ANCHORS. SHEET METAL SCREWS AND LEAD, WOOD, OR PLASTIC PLUGS ARE NOT ACCEPTABLE. 4. INSTALL SIGNAGE AS REQUIRED BY THE BUILDING DEPARTMENT APPROVAL AUTHORITY AND THE MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS

DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES CONTINUOUS/CONCEALED WOOD BLOCKING, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND

SPECIFICATIONS AND ICC/ANSI AIIT.I-2009.

- I. PROVIDE ONE (I) ACCESSIBLE LOCKER FOR EVERY TWENTY-FIVE (25) LOCKERS BUT A MINIMUM OF ONE LOCKER. b. MATERIAL

I. FABRICATED FROM COMMERCIAL COLD-ROLLED SHEET STEEL IN ACCORDANCE WITH ASTM A HOOB, TYPE B

2. TOP, BOTTOM, DIVIDERS, BACK AND SIDES: MINIMUM 0.024 INCHES THICKNESS. 3. FRAMES: CHANNEL FORMED: MINIMUM 0.060 INCHES THICKNESS; FACTORY WELDED AT CORNERS: TOP AND BOTTOM MAIN FRAMES WELDED INTO VERTICAL MAIN FRAMES, CONTINUOUS INTEGRAL DOOR STRIKE FULL HEIGHT ON VERTICAL MAIN FRAMES. 4. SHELF: PROVIDE ONE (I) PER LOCKER WITH GARMENT HOOK.

5. ACCESSIBLE LOCKABLE SHELVING: ONE (I) AT 15 INCHES A.F.F. AND ONE (I) 48 INCHES A.F.F. 6. DOOR ASSEMBLY: ONE PIECE; FORMED INTO CHANNEL SHAPE WITH DOUBLE BEND AT VERTICAL SIDES AND RIGHT ANGLE BEND AT TOP AND BOTTOM: UNVENTED.

7. DOOR HINGE: CONTINUOUS; WELDED TO DOOR; ATTACHED TO FRAME WITH A MINIMUM OF TWO

CONCEALED, TAMPERPROOF RIVETS. 8. DOOR LATCH: FINGER LIFT IN ACCORDANCE WITH ICC AIIT.I-2009 AND DESIGNED TO USE COMBINATION LOCK. 9. LEGS: MINIMUM 6 INCHES LONG; MINIMUM 0.075 INCHES THICKNESS; WELDED TO FRAME:

II. FINISH: BAKED ENAMEL; COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S

12. BOLTED ASSEMBLY. c. VERIFY WITH OWNER TOTAL QUANTITY OF LOCKERS REQUIRED FOR THIS PROJECT.

10. <del>SLOPPED TOP: CONTINUOUS, WITH END CLOSURES, MINIMUM 0.048 INCHES THICKNESS.</del>

d. MANUFACTURER: REPUBLIC OR EQUAL.

1001. PROVIDE STORAGE SHELVING AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH

COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION, INCLUDES CONCEALED AND CONTINUOUS SOLID WOOD BLOCKING, STANDARDS, BRACKETS, SHELVES AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

a. REFERENCE DRAWING SHEET HOLOO IN THE CONSTRUCTION DRAWINGS FOR SPECIFIC ICC/ANSI AIIT.I

b. MATERIAL: I. STANDARD: DOUBLE SLOTTED; HEAVY DUTY; WHITE; KV 82.

2. BRACKET: DOUBLE SLOTTED; HEAVY DUTY, WHITE; KY 182; REFERENCE THE DRAWINGS FOR THE

3. SHELVING: HIGH PRESSURE PLASTIC LAMINATE OR MELAMINE OVER MINIMUM 5/8 INCH THICKNESS PARTICLE-BOARD (PER ANSI A208.I). COLOR AS SELECTED BY THE OWNER OR THE OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD.

4. WOOD BLOCKING: MINIMUM 2x6 (NOM.). d. MANUFACTURER: KNAPE & VOGT. e. INSTALL COMPONENTS IN STRICT COMPLIANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS,

DETAILS AND SPECIFICATIONS. - I. USE ONLY MANUFACTURER'S SPECIFIED FASTENERS FOR SECURING COMPONENTS TO SUBSTRATE PROVIDED.

1008. FURNISH VINYL-COATED, STEEL-ROD, STEEL-WIRE, VENTILATED, STORAGE SHELVING SYSTEMS AS

2. MAXIMUM DISTANCE BETWEEN STANDARDS 24 INCHES CENTER TO CENTER.

a. ALL SHELVING UNITS SHALL BE FULLY ADJUSTABLE. b. FURNISH 12 INCH AND 16 INCH DEEP SHELVES WHERE INDICATED

FURNISH WALL HEADER AND VERTICAL STANDARDS FOR ADJUSTABLE SHELVING. FURNISH ANCHORING HARDWARE, FASTENING HARDWARE, HANGING RODS, CLIPS, SHELF SUPPORTS, END-CAPS, ETC. FOR A COMPLETE ASSEMBLY.

I. COMPONENTS SHALL PROVIDE FOR SHELVING INSTALLATION TO CONCEALED 2x (NOM.) WOOD BLOCKING CONCEALED BEHIND GYPSUM WALLBOARD. INSTALL SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED ASSEMBLY INSTRUCTIONS. MANUFACTURER: CLOSETMAID BY CLAIRSON INTERNATIONAL OR EQUAL.

INSTALLATION I. INSTALL ALL SHELVING, COMPONENTS AND ACCESSORIES IN ACCORDANCE WITH

MANUFACTURER'S WRITTEN SPECIFICATIONS AND DETAILS. 2. SHELVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS AND SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO FIELD FABRICATION OF ALL PRODUCTS. 3. SUPPORT BRACKETS WILL BE REQUIRED FOR 36 INCH SHELVING SPANS a) SPACE SUPPORT BRACKETS AT 24 INCHES FOR PANTRY CLOSET TYPE SHELVING

1009. PROVIDE ALUMINUM FLAGPOLE AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION.

a. OBTAIN FLACPOLE AS A COMPLETE UNIT, INCLUDING FITTINGS, ACCESSORIES, BASES, AND b. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SECTION 0141 OF THESE GENERAL NOTES:

I. ALUMINUM FLACPOLE: CONE-TAPERED FLACPOLE PER MANUFACTURER'S RATE OF TAPER FABRICATED FROM SEAMLESS, EXTRUDED TUBING COMPLYING WITH ASTM B221, ALLOY 60630T6, HAVING A TENSILE STRENGTH NOT LESS THAN 30,000 psi WITH A YIELD POINT OF 25,000 psi. HEAT TREAT, AFTER FABRICATION, TO COMPLY WITH ACTM B547, TEMPER T6. a) ASSEMBLY CONSTRUCTION: EXTERNAL SINGLE REVOLVING - ROPE HALYARD - GROUND

SET FOUNDATION. 2. FOUNDATION TUBE: GALVANIZED CORRUGATED STEEL FOUNDATION TUBE, 0.0635 INCHES - 16 GAUGE MINIMUM WALL THICKNESS, SIZED TO SUIT FLACPOLE AND INSTALLATION. PROVIDE WITH 3/16 INCH STEEL BOTTOM PLATE AND STEEL CENTERING WEDGES, FURNISH WITH 3/16 INCH SUPPORT PLATE, 3/4 INCH DIAMETER BY 18 INCHES LONG STEEL GROUND LIGHTNING SPIKE. FOUNDATION TUBE WILL CONSIST OF ALL WELDED CONSTRUCTION.

3. FINIAL: SIZED TO MATCH POLE BUTT DIAMETER. 4. SINGLE REVOLVING TRUCK ASSEMBLY: CAST ALUMINUM NON-FOULING REVOLVING WITH SINGLE PULLEY AND PIN, STAINLESS STEEL ROLLER BEARINGS, AND THREADED ALUMINUM SPINDLE FOR ATTACHMENT TO POLE.

5. HALYARD: PROVIDE ONE (1) CONTINUOUS 5/16 INCH (#10) POLYPROPYLENE HALYARD: 6. HALYARD FLAG SNAPS: PROVIDE TWO (2) STAINLESS STEEL SNIVEL SNAP HOOKS WITH

7. CLEAT(S): PROVIDE ONE (I) HEAVY-DUTY CAST ALUMINUM CLEAT (9 INCHES) WITH 1/4 INCH-20NG FLAT HEAD STAINLESS STEEL SELF-TAPPING SCREWS. 8. FLASH COLLAR: PROVIDE SPUN ALUMINUM COLLAR TO MATCH FLAGPOLE. 9. CONCRETE: COMPLY WITH REQUIREMENTS OF DIVISION 03 SECTION CAST-IN-PLACE

CONCRETE. - I. ANODIZED FINISHES: PROVIDE CLASS I, CLEAR ANODIZED (AA), FINISH COMPLYING WITH AA

e. EXCAVATION: COMPLY WITH REQUIREMENTS OF DIVISION 31 EARTHWORK. F. FOUNDATION: COMPLY WITH REQUIREMENTS OF DIVISION 03 CONCRETE. a. FLAGPOLE INSTALLATION:

1. INSTALL FLACPOLE WHERE SHOWN AND ACCORDING TO SHOP DRAWINGS AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. 2. FOUNDATION TUBE INSTALLATION: INSTALL FLAGPOLE IN FOUNDATION TUBE, SEATED ON

BOTTOM PLATE BETWEEN STEEL CENTERING WEDGES, PLUMB FLACPOLE AND INSTALL HARDWOOD WEDGES TO SECURE FLAGPOLE IN PLACE. PLACE AND COMPACT SAND IN FOUNDATION TUBE TO WITHIN 2 INCHES OF THE TOP OF TUBE, REMOVE HARDWOOD WEDGES AND SEAL TOP OF FOUNDATION TUBE WITH A 2 INCH LAYER OF ELASTOMERIC SEALANT OR

### **DIVISION 11 - EQUIPMENT**

CEMENT AND COVER WITH FLASHING COLLAR.

c. MATERIAL:

CONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS: FOR THE MANUFACTURING, TESTING, AND INSTALLATION OF BANKING EQUIPMENT AND RESIDENTIAL TYPE KITCHEN APPLIANCES:

a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) REQUIREMENTS. b. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) REQUIREMENTS. c. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC) REQUIREMENTS. d. INTERNATIONAL CODE COUNCIL (ICC/ANS) AIIT.I) "ACCESSIBLE AND USEABLE BUILDINGS AND

- FACILITIES"-2009 REQUIREMENTS. e. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS. F. UNDERWRITERS' LABORATORIES, INC. (U.L.) REQUIREMENTS. g. U. S. DEPARTMENT OF ENERGY (USDE - ENERGY STAR PROGRAM) REQUIREMENTS.

h. U.S. PRODUCTS STANDARDS (USPS) REQUIREMENTS. PROVIDE THE REQUIRED MATERIALS AND LABOR FOR THE INSTALLATION OF THE OWNER'S FURNISHED BANKING EQUIPMENT AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION.

a. CONSULT WITH OWNER OR OWNER'S REPRESENTATIVE AND OWNER'S BANKING EQUIPMENT SUPPLIER - (BES) PRIOR TO STARTING ANY WORK. b. COORDINATE BANKING EQUIPMENT WORK WITH OWNER. THE OWNER'S REPRESENTATIVE AND

I. THE BES SHALL FURNISH BANKING EQUIPMENT SHOP DRAWINGS TO THE CONTRACTOR DESCRIBING AND DETAILING ALL REQUIRED WORK TO BE FURNISHED BY THE CONTRACTOR: c. Furnish the following, as a minimum, as required by the owner, owner's representative,

- AND OWNER'S BES: - I. CUTTING AND PATCHING. 2. SOLID WOOD BLOCKING, CONCEALED OR NOT CONCEALED. - 3. CHASES, RACEWAYS, OPENINGS, ETC.

4. ANCHORS, FASTENERS, PLATES, BOLTS, ETG. NOT FURNISHED BY THE BES.

5. MECHANICAL SYSTEMS. - 6. DATA AND COMMUNICATIONS SYSTEMS. - 7. ELECTRICAL SYSTEMS. d. PROPOSED BANKING EQUIPMENT:

- I. CUSTOMER SERVICE REPRESENTATIVE (CSR - TELLER) EQUIPMENT SYSTEMS. - 2. AUTOMATIC BANKING SYSTEMS. 3. MONEY HANDLING EQUIPMENT.

4. PACKAGE TRANSFER UNITS. e. FINAL CONNECTIONS AND TESTING TO BE PERFORMED BY THE BES.

48 dBA, MODEL No. GDF570SGJWW.

PROVIDE NEW RESIDENTIAL TYPE KITCHEN APPLIANCES AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. INCLUDES ALL POTABLE WATER; DRAIN, WASTE AND VENT, (DWV) AND ELECTRICAL SERVICES TO THE APPLIANCES.

a. APPLIANCES - I. REFRIGERATOR/FREEZER: ENERGY STAR COMPLIANT, BOTTOM FREEZER, 21.0 CUBIC FEET, WITH ICE-MAKER, MODEL No. GDE2IEGKWW. 2. DISHWASHER: ENERGY STAR COMPLIANT, UNDER COUNTER STAINLESS STEEL INTERIOR, MAXIMUM

3. BEVERAGE CENTER: ENERGY STAR COMPLIANT, UNDER COUNTER, TINTED GLASS DOOR, 5.5

CUBIC FEET, MODEL No. PCRO6BATSS. 4. COFFEE MAKER: COMMERCIAL SINGLE CUP BREWING SYSTEM WITH WATER FILTER AND DIRECT POTABLE WATER HOOK-UP, KEURIG MODEL No. K-3000-SE. b. MANUFACTURER: GENERAL ELECTRIC, KEURIG OR EQUAL.

c. INSTALL APPLIANCES WHERE SHOWN AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

**DIVISION 12 - FURNISHINGS** 

b. PLASTIC LAMINATE COUNTERTOPS.

1200. CONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS, FOR THE MANUFACTURING, TESTING, AND INSTALLATION OF BANKING EQUIPMENT AND RESIDENTIAL TYPE

KITCHEN APPLIANCES: a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) REQUIREMENTS.

b. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) REQUIREMENTS. c. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC) REQUIREMENTS

d. INTERNATIONAL CODE COUNCIL (ICC/ANSI AIIT.I) "ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES"-2009 REQUIREMENTS. e. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.

q. U. S. DEPARTMENT OF ENERGY (USDE - ENERGY STAR PROGRAM) REQUIREMENTS. h. U. S. PRODUCTS STANDARDS (USPS) REQUIREMENTS.

F. UNDERWRITERS' LABORATORIES, INC. (U.L.) REQUIREMENTS.

1201. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES. a. KITCHEN CASEWORK.

1202. PROVIDE MANUFACTURED, HARDWOOD FACED, KITCHEN GASEWORK AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES BASE <del>Cabinets, Wall Cabinets, Finish Hardware and all other Items and Incidentals as required</del> TO MEET THE ANSI/KITCHEN CABINET MANUFACTURERS ASSOCIATION (KCMA) "CERTIFIED CABINET", IGI.I UNIFORM PERFORMANCE AND CONSTRUCTION STANDARDS.

a. AFFIX "GERTIFIED CABINET" SEAL, IN A SEMI-CONCEALED LOCATION, ON EACH CABINET UNIT. b. KITCHEN CASEMORK IS BASED ON ARISTOKRAFT, MAPLE HARDWOOD, "SELECT" CABINET - CONSTRUCTION OPTION AND OTHER PLYWOOD CONSTRUCTION OPTIONS AS NOTED WITH MAPLE

c. FIELD MEASURE AFTER INSTALLATION OF GYPSUM BOARD LOCATIONS OF ALL CASEWORK TO PREPARE SHOP DRAWINGS.

. EXPOSED SURFACES OF CASEWORK: SURFACES VISIBLE WHEN DOORS AND DRAWERS ARE CLOSED, INCLUDING VISIBLE SURFACES IN OPEN CASEWORK. 2. SEMI-EXPOSED SURFACES OF CASEWORK: SURFACES BEHIND DOORS AND DRAWER FRONTS,

INCLUDING INTERIOR FACES OF DOORS AND INTERIORS AND SIDES OF DRAWERS, BOTTOMS

OF WALL CASEWORK ARE DEFINED AS "SEMI-EXPOSED." 3. CONCEALED SURFACES OF CASEMORK: SURFACES NOT USUALLY VISIBLE AFTER ENDS OF CASEWORK INSTALLED DIRECTLY AGAINST AND COMPLETELY CONCEALED BY

WALLS OR OTHER CASEMORK, TOPS OF WALL CASEMORK AND TALL CASEMORK ARE

DEFINED AS "CONCEALED." e. CASEWORK CONSTRUCTION (BASE AND WALL)

I. FACE FRAME: 3/4 INCHES THICK BY 1 1/2 INCHES THICK MAPLE HARDWOOD. a. HARDWOOD LUMBER: CLEAR, DRY, SOUND, AND FREE OF DEFECTS AND SELECTED FROM FIRST GRADE LUMBER MEETING NATIONAL HARDWOOD LUMBER ASSOCIATION (NHLA)

3. DRAWER FACES: STAINED, PARTIAL OVERLAY, ALL MAPLE HARDWOOD, SLAB. 4. SIDES, CONCEALED: 3/8 INCHES THICK MEDIUM DENSITY PARTICLE-BOARD WITH MATCHING

2. DOOR FACES: STAINED, PARTIAL OVERLAY, ALL MAPLE HARDWOOD, FIVE (5) PIECE RAISED

4-MIL VINYL LAMINATE EXTERIOR. 5. SIDES, EXPOSED: 3/8 INCHES THICK VENEER PLYWOOD STAINED TO MATCH FACE FRAME EXPOSED AND 4-MIL VINYL LAMINATE. 6. BACK: 3/8 INCHES THICK MEDIUM DENSITY PARTICLE-BOARD

7. TOP (WALL AND TALL): 1/2 INCHES THICK MEDIUM DENSITY PARTICLE-BOARD WITH 4-MIL VINYL LAMINATE. 8. BOTTOM (WALL): 3/4 INCHES THICK MEDIUM DENSITY PARTICLE-BOARD WITH 4-MIL VINYL

4. BOTTOM (BASE): 3/4 INCHES THICK MEDIUM DENSITY PARTICLE-BOARD WITH 4-MIL VINYL - IO. CORNERS (BASE): TWO (2) PLYWOOD STRETCHER RAILS. II. SHELVES (WALL AND TALL): ADJUSTABLE, 3/4 INCHES THICK, FULL DEPTH, PLYWOOD, 15 lbs.

12. SHELVES (BASE): ADJUSTABLE, 3/4 INCHES THICK, FULL DEPTH, PLYMOOD, 15 lbs. MAXIMUM WEIGHT / sq. ft. - 13. DRAWER:

a. Box: 3/4 Inches thick all Plywood (with clear coat), dovetail Joinery, 21

b. BOTTOM: I/4 INCHES THICK PLYWOOD, FULLY CAPTURED. F. CABINET HARDWARE SHALL COMPLY WITH ANGI/BUILDERS HARDWARE MANUFACTURERS — ASSOCIATION (BIIMA) AI54,4 CABINET HARDWARE AND AI54,16 AUXILIARY HARDWARE,

g. DRAWER SLIDES: SELF CLOSING, FULL EXTENSION, IN STOP, OUT STOP AND OUT KEEPER NYLON-TIRED, BALL-BEARING ROLLERG, EPOXY POWDER GOATED FINISH, MINIMUM 88 Ibs DYNAMIC LOAD RATING.

h. HINGES: CONGEALED EUROPEAN-STYLE, SELF-CLOSING, CLIP-ON HINGES, MINIMUM 170 DEGREE OPENING, SIX-WAY FULLY ADJUSTABLE (4-SCREW TYPE), NICKEL COATED ZING ALLOY. - I. DOORS 39 INCHES HIGH OR LESS, 2-HINGES. 2. DOORS 40-51 INCHES HIGH, 3-HINGES.

MAXIMUM WEIGHT / sa. ft.

------INCHES DEEP.

3. DOORS 52-92 INCHES HIGH, 4-HINGES. i. WIRE PULLS: BACK MOUNTED, SOLID METAL, 4-INCHES LONG, 5/16 INCHES DIAMETER MEETING - ICC/ANSI AIIT.I REQUIREMENTS. I<del>, SHELF RESTS: METAL, TWO-PIN TYPE WITH SHELF HOLD-DOWN GLIP; ANSI/BHMA AI56,4 B540I3.</del>

C. DOOR AND DRAWER SILENCERS: BHMA A155.16, L3011. I. PRIOR TO FABRIGATION, PROVIDE A MOCK-UP, FOR THE OWNER'S REVIEW AND APPROVAL. IF - APPROVED, THE MOCK-UP MAY BE INCORPORATED IN THE WORK. m. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH ANY

PORTION OF THE WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN

- CORRECTED: - I. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE. n. UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER, BEGINNING A MINIMUM OF SEVEN (7) DAYS PRIOR TO INSTALLATION, MAINTAIN AN AMBIENT TEMPERATURE BETWEEN 65 AND 18 DEGREES F

AND RELATIVE HUMIDITY BETWEEN 25% AND 50%. MAINTAIN SPECIFIED FOR THE DURATION OF THE PROJECT. 1203. PROVIDE THE PLASTIC-LAMINATE-CLAD COUNTERTOPS AS INDICATED ON THE DRAWINGS. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, ADHESIVES, THE COVERING OF ALL SIDES AND EDGES OF FLAT COMPONENTS AND POST-FORMING COMPONENTS, AND ALL OTHER ITEMS AND INCIDENTALS AS

a. FIELD MEASURE AFTER INSTALLATION OF CYPSUM BOARD LOCATIONS OF ALL COUNTERTOPS TO PREPARE SHOP DRAWINGS. b. MATERIALS - I. PLASTIC LAMINATE: NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), HIGH

a. CONCEALED BACKING SHEET TYPE BKL. b. DECORATIVE SURFACES: I) FLAT COMPONENTS: TYPE GP-HGL. 2) POST FORMING: TYPE CP-HCP.

2. PARTICLE-BOARD: COMPOSITE PANEL ASSOCIATION (CPA) A208.I.

AT END OF ASSEMBLIES EXCEPT WHERE AGAINST WALL OR CABINET.

- 3. PLYWOOD: U. S. DEPARTMENT OF COMMERCE, PRODUCT STANDARDS (PS), CONSTRUCTION AND - 4. ADHESIVES: FEDERAL SPECIFICATION (FS) ADHESIVE, CONTACT, NEOPRENE RUBBER A-A-1936; - 5. FASTENERS: USE STUDS, BOLTS, SPACES, THREADED ROD WITH NUTS, OR SCREWS SUITABLE

FOR MATERIALS BEING JOINED WITH METAL SPLICE PLATES, CHANNELS, OR OTHER

- 4. PROVIDE 0.039 INCH THICK METAL PLATE CONNECTORS OR FASTENING DEVICES.

c. COUNTERTOPS - GENERAL - I. FABRICATE IN LARGEST SECTIONS PRACTICABLE. 2. FABRICATE WITH JOINTS FLUSH ON TOP SURFACE - 3. FABRICATE COUNTERTOPS TO OVERHANG FRONT OF CABINETS ONE INCH, AND ON-HALF INCH

SUPPORTING SHAPES.

PRESSURE DECORATIVE LAMINATES LD 3-05.

- 5. FABRICATE WITH END SPLASHES WHERE AGAINST OR CABINETS. 6. BACK SPLASHES AND END SPLASHES a. NOT LESS THAN 3/4 INCHES THICK. b. HEIGHT AT 4 INCHES UNLESS NOTED OTHERWISE.

c. DRILL OR CUT-OUT FOR SINKS AND PENETRATIONS. 1) ACCURATELY CUT FOR SIZE OF PENETRATION. d. PLASTIC-LAMINATE-CLAD COUNTERTOPS - I. FABRIGATE PLASTIC LAMINATE ON FIVE-PLY PLYWOOD OR PARTICLE-BOARD CORE 3/4

- 2. FRONT EDGE OVER CABINETS NOT LESS THAN 1-1/2 INCHES THICK e. INSTALLATION - I. BEFORE INSTALLING COUNTERTOPS VERIFY THAT WALL SURFACES HAVE BEEN FINISHED AS

SPECIFIED AND THAT MECHANICAL AND ELECTRICAL SERVICE LOCATIONS ARE AS REQUIRED. - 2. SECURE COUNTERTOPS TO SUPPORTING RAILS OF CABINETS WITH METAL FASTENING DEVICES: OR SCREWS THROUGH PIERCED SLOTS IN CABINET RAILS.

PENETRATION INTO TOP 5/8 INCHES, SCREW SIZE No. 8, OR No. 10. 3. INSTALL PLUMBING FIXTURES TO FORM A WATERTIGHT SEAL UNDER SHELF RIM. F. CLEAN COUNTERTOPS AT COMPLETION OF WORK, PROTECT ACAINST DAMAGE UNTIL FINAL - ACCEPTANCE BY OWNER.

1204. IN LIEU OF PLASTIC LAMINATE COUNTERTOPS, AND IF ONLY AS SELECTED BY THE ARCHITECT OWNER.

COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. REFERENCE DIVISION 06.

PROVIDE SOLID SURFACE COUNTERTOPS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH

a. USE WOOD OR SHEET METAL SCREWS FOR PLASTIC LAMINATE COUNTERTOPS, MINIMUM

0 S Q TIDI 426 FAST MAIN STREET

**Q** 

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Expiration Date: December 31, 2021

STEPHEN

LUCHTENBERG

8546

**GENERAL NOTES** DIVISION 10 **THROUGH DIVISION 12** 

- 1300. MANUFACTURING AND ERECTING FOR THE PRE-ENGINEERED METAL BUILDING THIS PROJECT <del>SHALL FULLY COMPLY WITH THE FOLLOWING CHAPTERS OF THE 2017 OHIO BUILDING CODE.</del> a. CHAPTER I, ADMINISTRATION
- <del>b. CHAPTER 16, STRUCTURAL DESIGN</del> c. CHAPTER IT. SPECIAL INSPECTIONS AND TESTS
- d. CHAPTER 19, CONCRETE e. CHAPTER 21, MASONRY
- F. CHAPTER 22, STEEL
- q. CHAPTER 33, SAFEGUARDS DURING CONSTRUCTION
- 1301. PROVIDE THE PRE-ENGINEERED METAL BUILDING SYSTEM AS INDICATED ON THE DRAWINGS. INCLUDES, BUT IS NOT NEGESSARILY LIMITED TO, FRAMES, COLUMNS, PURLING, GIRTS, EAVE STRUTS, THERMAL INCULATION, FLASHING, TRIMG, VENTING, VAPOR BARRIERS, DOOR FRAMES, <del>CUTTERS AND DOWNSPOUTS, FASTENERS, SEALANTS AND ALL OTHER ITEMS AND INCIDENTALS AS</del>
  - a. INSTALL IN STRICT ACCORDANCE WITH RHINO STEEL BUILDING SYSTEMS ERECTION DRAWINGS; SEAL BY A PROFESSIONAL ENGINEER LICENCE TO PRACTICE IN THE STATE OHIO,
- MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND IN COMPLIANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION SPECIFICATIONS. b. REFERENCE THE MANUFACTURER'S ERECTION DRAWINGS FOR THE SPECIFIC WIND SPEED,
- EXPOSURE AND SNOW LOAD DESIGN CRITERIA. :. <del>DESIGN AND FABRICATION SHALL BE IN COMPLIANCE WITH THE METAL BUILDING</del> MANUFACTURERS ASSOCIATION SPECIFICATIONS AND OTHER REQUIREMENTS LISTED IN THIS
- DIVISION OF THESE GENERAL NOTES. d. PERFORMANCE AIR INFILTRATION: AIR LEAKAGE OF NOT MORE THAN 0.06 CFM/SQ. FT. OF ROOF AREA
- WHEN TESTED IN ACCORDANCE WITH ACTM EIGOO AT POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE (GREATER THAN OR EQUAL TO 15 LBS PER SQUARE FOOT AND THE GREATER OF 15 PERCENT OF BUILDING LIVE LOAD AND 50 PERCENT OF BUILDING DESIGN) AND NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE (50 PERCENT OF DESIGN WIND UPLIFT PRESSURE)
- 2. WATER PENETRATION: NONE WHEN TESTED IN ACCORDANCE WITH ASTM E1646 AT POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE (GREATER THAN OR EQUAL TO 15 LBS PER SQUARE FOOT AND THE GREATER OF 15 PERCENT OF BUILDING LIVE LOAD AND 50 PERCENT OF BUILDING DESIGN) AND NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE (50 PERCENT OF DESIGN WIND UPLIFT PRESSURE).
- 3. WIND UPLIFT: COMPLY WITH OHIO BUILDING CODE (OBC) REQUIREMENTS. 4. COMPLY WITH REQUIREMENTS OF FMG 4471 FOR CLASS FOR NONCOMBUSTIBLE CONSTRUCTION.
- a)-HAIL RESISTANCE: MH 5. THERMAL MOVEMENT: ALLOW MOVEMENT RESULTING FROM AMBIENT AND SURFACE TEMPERATURE CHANGES; BASE ENGINEERING CALCULATIONS ON THE SURFACE TEMPERATURE OF MATERIALS BASED ON SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT
- e. MATERIAL RIGID FRAMES: ASTM A36; MILL-ROLLED OR SHOP WELDED COLUMNS AND ROOF BEAMS WITH BASE, CAP, COMPRESSION SPLICE AND STIFFENER PLATES, FABRICATED COMPLETE WITH HOLES FOR ATTACHMENT OF SECONDARY STRUCTURAL MEMBERS AND BRACING. a) FINISH: CLEANED OF ALL FOREIGN MATTER AND LOOSE MILL SCALE IN ACCORDANCE WITH SSPG-SPI AND SSPG-SP2; FACTORY APPLIED RUST INHIBITIVE PRIMER TO A DRY

FILM THICKNESS OF 0.25 TO 0.31 MIL; TESTS FOR ADHESION, FLEXIBILITY AND

- LONGEVITY ARE AS SPECIFIED BY THE PAINT MANUFACTURER; TOP COAT, MANUFACTURER'S STANDARD. b) EXPOSED TO ELEMENTS PORTION OF EXTERIOR COLUMNS FOR RIGID FRAMES SUPPORTING CANOPY SHALL HAVE A 660 GALVANIZING COATING AND SHOP PRIMED.
- 2. ENDWALL FRAMES: ASTM A653 WITH 660 GALVANIZING COATING; COLD-FORMED; MILL-ROLLED OR SHOP WELDED COLUMNS AND ROOF BEAMS WITH BASE, CAP, COMPRESSION SPLICE AND STIFFENER PLATES; FABRICATED COMPLETE WITH HOLES FOR ATTACHMENT OF SECONDARY STRUCTURAL MEMBERS AND BRACING. a) FINISH: SAME AS RIGID FRAMES.
- 3. ROOF PURLING: "Z" SHAPE; FACTORY PUNCHED HOLES IN FLANCES FOR PANEL CONNECTIONS; GOO GALVANIZING COATING AND SHOP PRIMED.
- 4. LONG SPAN STEEL JOISTS, IF REQUIRED.
- 5. EAVE STRUTS: "C" SHAPE: FACTORY PUNCHED; PRECISION-ROLL-FORMED; 660 GALVANIZING COATING AND SHOP PRIMED.
- 6. GIRTS: "Z" OR "C" SHAPE; FACTORY PUNCHED HOLES IN FLANCES FOR PANEL CONNECTIONS; 660 GALVANIZING COATING AND SHOP PRIMED.
- 1. BRACING: HOT-ROLLED RODS; FIXED-BASE WIND POSTS; PIN-BASED PORTAL FRAMES. 8. HIGH-STRENGTH BOLTS IN ACCORDANCE WITH ASTM A325.
- 9. ROOF PANEL (L3P): MINIMUM 26 GAUGE: AS SELECTED BY OWNER.
- IO. WALL PANEL (L3P): MINIMUM 26 GAUGE; AS SELECTED BY OWNER.
- II. LINER PANEL (INTERIOR): WHERE NOTED, PROVIDE MINIMUM 22 GAUGE; GALVANIZED STEEL <del>540 PER ASTM A653; FACTORY APPLIED PVDF RESIN PAINT SYSTEM; COLOR AS</del> <del>SELECTED BY OWNER FROM MANUFACTURER'S STANDARD.</del>
- 12. ENDWALL AND SIDEMALL VENT ASSEMBLY: MATCH THICKNESS, MATERIAL AND FINISH OF ROOF PANEL: COLOR TO MATCH THE ROOF PANEL.
- 13. SOFFIT AND FASCIA PANEL: AS SELECTED BY OWNER.
- 14. ROOF CLIPS AND OTHER DEVICES FOR THERMAL EXPANSION AND CONTRACTION: AS DESIGNED BY THE MANUFACTURER
- 15. THERMAL INSULATION: SCRIM-FACED R-30.0 MIN. FOR ROOF WITH THERMAL BLOCKS: SCRIM-FACED R-19.0 FOR EXTERIOR WALLS, REFERENCE FLOOR PLANS, SECTIONS AND **ELEVATIONS DRAWINGS.**
- 16. VENTILATORS: MATCH THICKNESS, MATERIAL AND FINISH OF ROOF PANEL; COLOR TO MATCH THE ROOF PANEL.
- 17. GUTTERS AND DOWNSPOUTS: SEAMLESS: GUTTER MINIMUM 0.022 INCHES THICK; DOWNSPOUT MINIMUM 0.022 INCHES THICK: MATCH MATERIAL AND FINISH OF THE WALL AND ROOF PANEL: COLOR OF THE CUTTER TO MATCH THE ROOF PANEL: COLOR OF THE DOWNSPOUT AS SELECTED BY THE OWNER FROM MANUFACTURER'S STANDARD.
- 18. CLOSURES, FLASHINGS AND TRIMS: AS DESIGNED BY THE MANUFACTURER: MATCH THICKNESS, MATERIAL AND FINISH OF ROOF AND WALL PANEL; COLOR TO MATCH THE ROOF AND WALL PANEL.
- 19. DOOR OPENINGS: MANUFACTURER'S STANDARD FRAMING MEMBERS FOR OVERHEAD DOOR SYSTEMS AND MAN-DOOR HOLLOW METAL FRAME.
- 20.SNOW CLIPS: AS DESIGNED BY THE MANUFACTURER; FACTORY FINISHED TO MATCH THE ROOF PANELS.
- 21. SEALANT, SEALANT TAPE: MANUFACTURER'S SPECIFICATIONS AND INDUSTRY STANDARDS ACCEPTABLE F<del>. THE INSTALLING CONTRACTOR IS TO BE MANUFACTURER CERTIFIED AND HAVE NO LESS THAN</del>
- TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND - SIMILAR IN SIZE AND SCOPE TO THIS PROJECT. a. <del>Contractor Shall conduct and document a pre-installation conference no</del>
- EARLIER THAN THREE WEEKS, BUT NOT LATER THAN ONE WEEK PRIOR TO THE SCHEDULED START OF INSTALLATION. ATTENDEES ARE TO INCLUDE THE CONTRACTOR, THE OWNER, THE INSTALLER, THE INSTALLER'S SAFETY OFFICER AND THE MANUFACTURER'S REPRESENTATIVE: ITEMS DISCUSSED ARE TO INCLUDE THE FOLLOWING:
- REVIEW THE DESIGNED BUILDING SYSTEM AND MANUFACTURER'S WRITTEN ERECTION INSTRUCTIONS, DETAILS AND SPECIFICATIONS.
- 2. REVIEW FLASHINGS, SPECIAL ROOF DETAILS, ROOF PENETRATIONS, DRAINAGE, VENTILATION AND ANY OTHER CONSTRUCTION THAT WILL AFFECT THE INSTALLATION.
- 3. REVIEW TESTING AND INSPECTION REQUIREMENTS.
- 4. <del>REVIEW SAFETY PROCEDURES, EQUIPMENT AND BARRICADING</del> 5. REVIEW MATERIAL OFF-LOADING AND STAGING.
- h. ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. ASSEMBLY WARRANTY: MATERIALS AND WORKMANSHIP FOR TWO YEARS FOLLOWING DATE
- OF SUBSTANTIAL COMPLETION. FINISH WARRANTY: REPAIR OR REPLACE ITEMS THAT EXHIBIT DETERIORATION OF FACTORY
- APPLIED FINISHES FOR 25 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. WEATHER-TIGHTNESS WARRANTY: REPAIR OR REPLACE ASSEMBLIES THAT FAIL TO REMAIN WEATHER-TIGHT, INCLUDING LEAKS, FOR 25 YEARS FROM DATE OF SUBSTANTIAL COMPLETION:
- WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES; PROTECT AGAINST GALVANIC ACTION BY PAINTING THE CONTACT SURFACE WITH BITUMINOUS COATING, BY APPLYING RUBBERIZED ASPHALT UNDERLAYMENT OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY THE MANUFACTURER.
- m. PAINT TOUCH-UP CUTS IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
- n. INSTALLATION TOLERANCE: 1/4 INCH IN 20 FEET ON SLOPE AND LOCATION LINES; 1/8 INCH OFFSET OF ADJOINING FACES AND ALICHMENT OF MATCHING PROFILES.
- o. Ground and bond the Building in accordance with the National Electric Code.

### 1302. BLEACHERS

- a. PROVIDE ADA AND OBC COMPLIANT, 38 SEAT CAPACITY, PORTABLE AND TOWABLE ALUMINUM BLEACHERS WITH FIVE 15' LONG ROWS. INSTALL WHERE LOCATED ON SITE PLANS. BLEACHERS TO CONSIST OF:
- I. 4' WIDE CENTER AISLE WITH MID-AISLE HANDRAIL
- 2. UNDERCARRIAGE STRUCTURE DESIGNED BY BLEACHER MANUFACTURER TO HOLD UNIFORM LOAD OF 100 PSF, WITH SEAT AND FOOT PLANKS CAPABLE OF ACCOMMODATING 200 PLF ACROSS 6' SPAN WITH A MAX DEFLECTION OF 9/16".
- 3, 48" HIGH GUARD ADJACENT TO 3RD, 4TH AND 5TH ROWS AND BEHIND 5TH ROW. GUARD TO CONSIST OF 1 5/8" POSTS, I 5/8" TOP AND BOTTOM RAILS WITH CONTINUOUS 54", 9 GA CHAIN LINK FENCING SECURED TO POSTS, RAILS AND BLEACHER STRUCTURE.
- 3.I. TOP OF GUARD TO BE 42" ABOVE THE CENTER OF ANY ADJACENT SEAT. 3.2. GUARD TO HAVE NO OPENING LARGER THAN 4" AT ANY LOCATION MORE THAN 30" ABOVE GRADE (INCLUDING THE TRIANGULAR REGION UNDERNEATH THE SEAT FORMED BY
- THE TREAD AND RISER). 4. 2" x 10" EXTRUDED ANODIZED ALUMINUM SEAT PLANKS, ALL WITH END CAPS
- 5. DOUBLE 2" x IO" FOOT BOARDS WITH MILL FINISH; ALL WITH END CAPS.
- 6. SINGLE 6" ALUMINUM RISERS AT ROWS 2 THRU 4
- 7. DOUBLE 6" ALUMINUM RISER AT ROW 5. 8. IT" HIGH FRONT ROW SEAT HEIGHT
- 9. MFR'S TOW KIT.
- b. IN ADDITION TO ITEM a.2 ABOVE, BLEACHERS TO BE DESIGNED BY BLEACHER MFR TO:
- I. WITHOUT LIVE LOAD, RESIST 30 PSF OF GROSS VERTICAL PROJECTION. 2. RESIST SWAY FORCES OF 24 PLF OF SEAT PLANK IN A DIRECTION PARALLEL TO THE LENGTH OF THE SEAT, AND IO PLF OF SEAT PLANK IN A DIRECTION PERPENDICULAR TO THE LENGTH OF THE SEAT.
- 3. GUARD TO RESIST 50 PLF UNIFORM LOAD AND 200 LB CONCENTRATED LOAD PROVIDE SHOP DRAWINGS, INCLUDING MFR'S TEST REPORTS SHOWING THAT UNDER TEST LOADS, STRESSES IN THE ALUMINUM BEMBERS AND CONNECTIONS DO NOT EXCEED THOSE SPECIFIED FOR
- BUILDING TYPE STRUCTURES BY THE ALUMINUM ASSOCIATION. d. CONTRACTOR TO ASSEMBLE AND INSTALL UNIT IN STRICT ACCORDANCE WITH MANUFACTURER'S
- WRITTEN INSTRUCTIONS. e. MANUFACTURER AND MODEL:
- I. BELSON, MODEL # BGS-161
- 2. EQUAL BY NATIONAL RECREATION SYSTEM OR OTHER MFR APPROVED BY THE ARCHITECT VIA GC SUBSTITUTION PROCESS.

### **DIVISION 14 - NO REQUIREMENTS**

### **DIVISION 21 - FIRE SUPPRESSION**

- 2100. PROVIDE THE DESIGN, MATERIALS, EQUIPMENT, INSTALLATION, INSPECTION, AND TESTING OF THE <del>AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF NFPA 13.</del> a. THE DESIGN AND INSTALLATION OF HYDRAULICALLY CALCULATED AUTOMATIC WET-PIPE SYSTEM
  - COMPLETE AND READY FOR OPERATION FOR ALL PORTIONS OF THE BUILDING, INCLUDING THE PENTHOUSE, ATTIC SPACE, ELEVATOR MACHINE ROOM, ELEVATOR PITS, LINEN CHUTES, AND - REFUSE CHUTES.
  - b. MODIFICATIONS OF THE EXISTING SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS AND AS
- FURTHER REQUIRED BY THESE GENERAL NOTES.
- CONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS, FOR THE DESIGN, MANUFACTURING, TESTING, AND INSTALLATION OF AUTOMATIC SPRINKLER
- a. AMERICAN NATIONAL STANDARDS INSTITUTE, INTERNATIONAL, (ANSI).
- b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
- c. AMERICAN WATER WORKS ASSOCIATION (AWWA). d. FACTORY MUTUAL ENGINEERING CORP. (FM).
- e. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). F. NATIONAL SCIENCE FOUNDATION (NSF)/ANSI.
- q. UNDERWRITERS' LABORATORIES, INC. (UL).
- 2102. WET-PIPE SPRINKLER SYSTEMS a. PERFORM HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 UTILIZING THE AREA/DENSITY METHOD. DO NOT RESTRICT DESIGN AREA REDUCTIONS PERMITTED FOR USING QUICK RESPONSE
- SPRINKLERS THROUGHOUT BY THE REQUIRED USE OF STANDARD RESPONSE SPRINKLERS IN THE AREAS IDENTIFIED IN THE SECTION. b. SPRINKLER PROTECTION: SPRINKLER HAZARD CLASSIFICATIONS SHALL BE IN ACCORDANCE WITH
- NFPA 13. THE HAZARD CLASSIFICATION EXAMPLES OF USES AND CONDITIONS IDENTIFIED IN THE CLASSIFICATION FROM THE ARCHITECT / ENGINEER FOR ANY HAZARD CLASSIFICATION NOT - IDENTIFIED. TO DETERMINING SPACING AND SIZING, APPLY THE FOLLOWING THE FOLLOWING
- COVERAGE CLASSIFICATION: I. LIGHT HAZARD OCCUPANCIES: BUSINESS OFFICES AND CONFERENCE ROOMS, PATIENT CARE AND TREATMENT ROOMS, AND CORRIDORS AND HALLWAYS.
- 2. ORDINARY HAZARD GROUP I: LABORATORIES, MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, ELECTRICAL SWITCHCEAR ROOMS, ELECTRICAL CLOSETS, AND REPAIR AND WORK ROOMS
- 3. ORDINARY HAZARD GROUP 2: STORAGE ROOMS, TRASH ROOMS, CLEAN AND SOILED LINEN ROOMS, PHARMACY AND ASSOCIATED STORAGE, LAUNDRY, KITCHENS, KITCHEN STORAGE AREAS, RETAILS STORES, RETAIL STORE STORAGE ROOMS AND AREAS, BOILER PLANTS/ROOMS, WAREHOUSE SPACES, FILE STORAGE AREAS FOR THE ENTIRE AREA UP TO
- c. INDRAULIC CALCULATIONS: CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN TO PERCENT BELOW THE AVAILABLE WATER SUPPLY CURVE. I. OBTAIN WATER UTILITY PROVIDER'S CURRENT HYDRANT FLOW TEST AND MAKE PART OF
- CONTRACT DOCUMENTS. PROVIDE COPY OF THE PROVIDER'S TEST RESULTS TO THE ARCHITECT/ENGINEER. 2. CALCULATIONS SHALL STATE THE FOLLOWING:
- <del>------a) WATER SUPPLY:</del>
- I) BASE WATER SUPPLY ON A FLOW TEST 2) LOCATION
- b) ELEVATION STATIC TEST GAUGE, Ft.
- d) STATIC PRESSURE, psi.
- e) RESIDUAL PRESSURE, ps
- f) FLOW, apm. a) DATE AND TIME.
- 3. ZONING: FOR EACH SPRINKLER ZONE PROVIDE A CONTROL VALVE, FLOW SWITCH, AND A TEST AND DRAIN ASSEMBLY WITH PRESSURE GAUGE, FOR BUILDINGS GREATER THAN TWO STORIES, PROVIDE A CHECK VALVE AT EACH CONTROL VALVE.
- 4. PROVIDE SEISMIC PROTECTION IN ACCORDANCE WITH NEPA 13. CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS FOR SIZING OF SWAY BRACING FOR SYSTEMS THAT ARE REQUIRED TO BE PROTECTED AGAINST DAMAGE FROM EARTHQUAKES.
- d. PROVIDE SUBMITTALS IN ACCORDANCE WITH SECTION OIL2 OF THESE CENERAL NOTES. I. DESIGNER: PREPARE DETAILED WORKING DRAWINGS THAT ARE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE FIELD OF FIRE PROTECTION

ENGINEERING OR A CERTIFIED FIRE PROTECTION DESIGNER CERTIFIED BY THE STATE OF

- OHIO FIRE MARSHALL. 2. DRAWINGS CONFORMING TO THE PLANS AND CALCULATIONS CHAPTER OF NFPA 13.
- 3. MANUFACTURER'S DATA SHEETS. - 4. IYDRAULIG CALCULATION SHEETS CONFORMING TO THE PLANS AND CALCULATIONS CHAPTER
- OF NEPA 13 <del>VIDE A VALVE CHART THAT IDENTIFIES THE LOCATION OF EACH</del>
- CONTROL VALVE. - 6. A MINIMUM OF TWO COMPLETE SETS OF AS-BUILT DRAWINGS.
- 1. MATERIAL AND TESTING CERTIFICATES. 8. OPERATIONS AND MAINTENANCE MANUALS.
- e. QUALITY ASSURANCE
- I. INSTALLER RELIABILITY: THE INSTALLER SHALL POSSESS A VALID STATE OF OHIO FIRE SPRINKLER CERTIFICATION AS ISSUED BY THE STATE OF OHIO FIRE MARSHALL. THE INSTALLER SHALL HAVE BEEN ACTIVELY AND SUCCESSFULLY ENGAGED IN THE INSTALLATION
- OF COMMERCIAL AUTOMATIC SPRINKLER SYSTEMS FOR THE PAST TEN YEARS. - 2. MATERIALS AND EQUIPMENT: ALL EQUIPMENT AND DEVICES SHALL BE OF A MAKE AND TYPE LISTED BY UL OR APPROVED BY FM, OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE SPECIFIC PURPOSE FOR WHICH IT IS TO BE USED. ALL MATERIAL,
- EQUIPMENT AND DEVICES SHALL BE NEW AND FREE FROM DEFECT. F. PIPE AND FITTINGS
- I. PIPING AND FITTINGS FOR PRIVATE UNDERGROUND WATER MAINS SHALL BE IN ACCORDANCE WITH NEPA 13. a) PIPE AND FITTINGS FROM INSIDE FACE OF BUILDING 12 INCHES ABOVE FINISHED FLOOR
- TO A DISTANCE OF APPROXIMATELY 5 FEET OUTSIDE BUILDING: DUCTILE IRON, FLANGED FITTINGS AND 316 STAINLESS STEEL BOLTING. 2. PIPING AND FITTINGS FOR SPRINKLER SYSTEMS SHALL BE IN ACCORDANCE WITH NFPA 13:

a) PLAIN-END PIPE FITTINGS WITH LOCKING LUGS OR SHEAR BLOCKS ARE NOT PERMITTED:

- b) PIPING SIZES 2 INCHES AND SMALLER SHALL BE BLACK STEEL SCHEDULE 40 WITH THREADED END CONNECTIONS. c) PIPING SIZES 2-1/2 INCHES AND LARGER SHALL BE BLACK STEEL SCHEDULE IO WITH - CROOVED CONNECTIONS, CROOVES IN SCHEDULE TO PIPING SHALL BE ROLLED GROOVED
- d) PLASTIC PIPING SHALL NOT BE PERMITTED EXCEPT FOR DRAINAGE PIPING. e) FLEXIBLE SPRINKLER HOSE SHALL BE FM APPROVED AND LIMITED TO HOSE WITH

THREADED END FITTINGS WITH A MINIMUM INSIDE DIAMETER OF I-INCH AND MAXIMUM

- LENGTH OF 6 FEET.
- q. VALVES \_\_\_\_\_I. CENERAL: VALVES SHALL BE IN ACCORDANCE WITH NFPA 13.
- a) DO NOT USE QUARTER TURN BALL VALVES FOR 2 INCH OR LARGER DRAIN VALVES. 2. CONTROL VALVE: THE CONTROL VALVES SHALL BE LISTED INDICATING TYPE. CONTROL VALVES SHALL BE UL LISTED OR FM APPROVED FOR FIRE PROTECTION INSTALLATIONS. SYSTEM CONTROL VALVE SHALL BE RATED FOR NORMAL SYSTEM PRESSURE BUT IN NO CASE LESS 175 PSI.
- 3. CHECK VALVE: SHALL BE OF THE SWING TYPE WITH A FLANCED CAST IRON BODY AND FLANGED INSPECTION PLATE.
- 4. AUTOMATIC BALL DRIPS: CAST BRASS 3/4 INCH IN-LINE AUTOMATIC BALL DRIP WITH BOTH
- ENDS THREADED WITH IRON PIPE THREADS. - 5. ALARM CHECK VALVE: ALARM CHECK VALVE SHALL BE UL LISTED AND FM APPROVED. THE —— ALARM CHECK VALVE SHALL BE LISTED FOR INSTALLATION IN THE VERTICAL OR
- HORIZONTAL POSITION, THE ALARM CHECK VALVE SHALL BE EQUIPPED WITH A REMOVABLE - COVER ASSEMBLY, GAUGE CONNECTIONS ON THE SYSTEM SIDE AND SUPPLY SIDE OF THE VALVE CLAPPER, VARIABLE PRESSURE TRIM, AND AN EXTERNAL BYPASS TO ELIMINATE FALSE WATER FLOW ALARMS. THE ALARM CHECK VALVE TRIM PIPING SHALL BE
- GALVANIZED. MAXIMUM WATER WORKING PRESSURE TO 250 PSI. 6. BACKFLOW PREVENTER: PROVIDE BACKFLOW PREVENTER IN ACCORDANCE WITH DIVISION 22 PLUMBING OF THESE GENERAL NOTES AND THE UTILITY PROVIDERS REQUIREMENTS:

### a) PROVIDE MEANS TO FORWARD FLOW TEST THE BACKFLOW PREVENTER IN ACCORDANCE WITH NEPA 13 REQUIREMENTS.

- h. FIRE DEPARTMENT SIAMESE CONNECTION I. ONLY USE THE FIRE DEPARTMENT SHAMESE CONNECTION AS APPROVED BY THE LOCAL FIRE DEPARTMENT AND/OR THE AUTHORITY HAVING JURISDICTION. 2. BRASS, FLUSH WALL TYPE, OR STORZ TYPE, EXTERIOR FIRE DEPARTMENT CONNECTION WITH
- CONNECTIONS THREADED TO MATCH THOSE OF THE LOCAL FIRE PROTECTION SERVICE, WITH — POLIGHED BRASS CAPS AND CHAINS. PROVIDE ESCUTCHEON WITH INTEGRAL RAISED LETTERS. -- "AUTOMATIC SPRINKLER" OR "STANDPIPE AND AUTOMATIC SPRINKLER". INSTALL AN

BRASS ESCUTCHEON PLATE, WITH OR WITHOUT SILL COCK, AND A MINIMUM OF TWO 2-1/2 INCH

— AUTOMATIC BALL DRIP BETWEEN FIRE DEPARTMENT CONNECTION AND CHECK VALVE WITH

### DRAIN PIPING ROUTED TO THE EXTERIOR OR A FLOOR DRAIN.

I. ALL SPRINKLERS SHALL BE FM APPROVED QUICK RESPONSE, PROVIDE FM APPROVED QUICK RESPONSE SPRINKLERS IN ALL AREAS, EXCEPT THAT STANDARD RESPONSE SPRINKLERS SHALL BE PROVIDED IN FREEZERS, REFRIGERATORS, ELEVATOR HOIST-WAYS, ELEVATOR MACHINE ROOMS, AND GENERATOR ROOMS.

2. TEMPERATURE RATINGS: IN ACCORDANCE WITH NEPA 13 EXCEPT THAT SPRINKLERS IN ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS SHALL BE NO LESS THAN INTERMEDIATE <del>- Temperature Rated and Sprinklers in Generator Rooms Shall be no less than High</del>

TEMPERATURE RATED. 3. PROVIDE SPRINKLER CUARDS IN ACCORDANCE WITH NFPA 13 AND WHEN THE ELEVATION OF

THE SPRINKLER HEAD IS LESS THAN 7 FEET 6 INCHES ABOVE FINISHED FLOOR. THE SPRINKLER GUARD SHALL BE UL LISTED OR FM APPROVED FOR USE WITH THE

CORRESPONDING SPRINKLER. 1. SPRINKLER CABINET . I. PROVIDE SPRINKLER CABINET WITH THE REQUIRED NUMBER OF SPRINKLER HEADS OF ALL

RATINGS AND TYPES INSTALLED, AND A SPRINKLER WRENCH FOR EACH TYPE OF SPRINKLER IN ACCORDANCE WITH NFPA 13. LOCATE ADJACENT TO THE RISER. 2. PROVIDE A LIST OF SPRINKLERS INSTALLED IN THE PROPERTY IN THE CABINET. THE LIST

- SHALL INCLUDE THE FOLLOWING: a) MANUFACTURER, MODEL, ORIFICE, DEFLECTOR TYPE. THERMAL SENSITIVITY. AND
- PRESSURE FOR EACH TYPE OF SPRINKLER IN THE CABINET.
- b) GENERAL DESCRIPTION OF WHERE EACH SPRINKLER IS USED.
- c) QUANTITY OF EACH TYPE PRESENT IN THE CABINET. d) ISSUE OR REVISION DATE OF LIST.
- k, SPRINKLER SYSTEM SIGNAGE: RIGID PLASTIG, STEEL OR ALUMINUM SIGNS WITH WHITE LETTERING ON A RED BACKGROUND WITH HOLES FOR EASY ATTACHMENT, SPRINKLER SYSTEM SIGNAGE - SHALL BE ATTACHED TO THE VALVE OR PIPING WITH A CHAIN.
- I. OS&Y (OUTSIDE SCREW & YOKE) VALVE SUPERVISORY SWITCHES SHALL BE WEATHER-PROOF SCREWS, 1/2 INCH CONDUIT ENTRANCE AND NECESSARY FACILITIES FOR ATTACHMENT TO THE VALVE, PROVIDE TWO SPDT (SINGLE POLE DOUBLE THROW) SWITCHES RATED AT 2.5 AMPS.
- AT 24 VDG. 2. WATER FLOW ALARM SMITCHES: MECHANICAL, NON-CODED, NON-ACCUMULATIVE RETARD AND ADJUSTABLE FROM 0 TO 60 SECONDS MINIMUM, SET FLOW SWITCHES AT AN INITIAL SETTING BETWEEN 20 AND 30 SECONDS.
- 3. ALARM PRESSURE SMITCHES: ACTIVATION BY ANY FLOW OF WATER EQUAL TO OR IN EXCESS OF THE DISCHARGE FROM ONE SPRINKLER, THE ALARM PRESSURE SMITCH SHALL BE UL ALARM PRESSURE SMITCH SHALL CAUSE AN ALARM ON THE FIRE ALARM SYSTEM CONTROL
- 4. VALVE SUPERVISORY SMITCHES FOR BALL AND BUTTERFLY VALVES: MAY BE INTEGRAL WITH THE VALVE. m. GAUGES: PROVIDE GAUGES AS REQUIRED BY NEPA 13. PROVIDE GAUGES WHERE NORMAL
- PRESSURE OF THE SYSTEM IS AT THE MIDRANGE OF THE GAUGE. n. PIPE HANGERS, SUPPORTS, AND RESTRAINT OF SYSTEM PIPING: PIPE HANGERS, SUPPORTS, AND RESTRAINT OF SYSTEM PIPING SHALL BE IN ACCORDANCE WITH NFPA 13. o. WALL, FLOOR, AND CEILING PLATES: PROVIDE CHROME PLATED STEEL ESCUTCHEON PLATES.
- p. ANTIFREEZE SOLUTION: ANTIFREEZE SOLUTION SHALL BE IN ACCORDANCE WITH NFPA 13 AND SHALL BE COMPATIBLE WITH USE IN POTABLE WATER SUPPLY. g. VALVE TAGS: ENGRAVED BLACK FILLED NUMBERS AND LETTERS NOT LESS THAN 1/2 INCH HIGH FOR NUMBER DESIGNATION, AND NOT LESS THAN 1/4 INCH FOR SERVICE DESIGNATION ON 19 GAGE,
- I-I/2 INCHES ROUND BRASS DISC, ATTACHED WITH BRASS "S" HOOK, BRASS CHAIN, OR NYLON TWIST TIE. r. INSTALLATION
- I. INSTALLATION SHALL BE ACCOMPLISHED BY THE LICENSED CONTRACTOR, PROVIDE A — QUALIFIED TECHNICIAN, EXPERIENCED IN THE INSTALLATION AND OPERATION OF THE TYPE OF SYSTEM BEING INSTALLED, TO SUPERVISE THE INSTALLATION AND TESTING OF THE SYSTEM; INSTALLATION OF THE COMPLETE SYSTEM SHALL BE IN STRICT CONFORMANCE WITH NFPA 13.
- 2. SPRINKLERS AND PIPING LAYOUTS SHOWN ARE SCHEMATICALLY DRAWN. THE EXACT LOGATIONS OF ALL SPRINKLERS AND PIPING SHALL BE DETERMINED BY THE STRUCTURE. - COORDINATE THE SPRINKLERS AND PIPING WORK WITH WORK OF OTHER TRADES.
- 3. INSTALLATION OF PIPING: ACCURATELY OUT PIPE TO MEASUREMENTS ESTABLISHED BY THE - INSTALLER AND WORK INTO PLACE WITHOUT SPRINGING OR FORGING, CONCEAL PIPING THAT - HAVE FINISHED CEILINGS, INSTALL SPRINKLERS AND PIPING SO AS TO NOT OBSTRUCT THE MOVEMENT OR OPERATION OF OTHER EQUIPMENT, SIDEWALL HEADS MAY NEED TO BE UTILIZED. IN STAIRWAYS, LOCATE PIPING AS NEAR TO CEILING AS POSSIBLE TO PREVENT TAMPERING WITH SYSTEM AND TO PROVIDE A MINIMUM HEADROOM GLEARANGE OF SEVEN
- FEET SIX INCHES. SPRINKLERS AND PIPING SHALL NOT OBSTRUCT THE MINIMUM MEANS EGRESS CLEARANCES REQUIRED BY NFPA IOI AND THE OBC. - 4. WELDING SHALL CONFORM TO THE REQUIREMENTS AND RECOMMENDATIONS OF NEPA 13.
- <del>−−5 SI FFVFS.</del> a) PROVIDE THE GENERAL CONTRACTOR WITH LOCATIONS OF SYSTEM PIPING PASSING
- THROUGH MASONRY AND CONCRETE. b) SLEEVES TO BE PROVIDED BY AND INSTALLED BY THE GENERAL CONTRACTOR. c) PROVIDE SPACE BETWEEN THE PIPE AND THE SLEEVE IN ACCORDANCE WITH NEPA 13.
- 1) SEAL THIS SPACE WITH UL LISTED THROUGH PENETRATION FIRE STOP MATERIAL IN ACCORDANCE WITH DIVISION OF THESE GENERAL NOTES. d) WHERE CORE DRILLING IS USED IN LIEU OF SLEEVES, ALSO SEAL SPACE.
- e) SEAL PENETRATIONS OF WALLS, FLOORS, AND CEILINGS OF OTHER TYPES OF - CONSTRUCTION, IN ACCORDANCE WITH DIVISION OF THESE GENERAL NOTES. 6. FURNISH, LOCATE AND INSTALL FIRE DEPARTMENT CONNECTION SIGNAGE IN ACCORDANCE
- WITH NEPA 170 7. FURNISH, LOGATE AND INSTALL SPRINKLER SYSTEM SIGNAGE IN ACCORDANCE WITH NFPA 13 AND NFPA 25 REQUIREMENTS.
- 8. REPAIRS: REPAIR DAMAGE TO THE BUILDING OR EQUIPMENT RESULTING FROM THE INSTALLATION OF THE SPRINKLER SYSTEM BY THE INSTALLER AT NO ADDITIONAL COST TO 9. INTERRUPTION OF SERVICE: THERE SHALL BE NO INTERRUPTION OF THE EXISTING SPRINKLER PROTECTION, WATER, ELECTRIC, OR FIRE ALARM SERVICE WITHOUT PRIOR PERMISSION OF
- THE OWNER, ARCHITECT AND ENGINEER, CENERAL CONTRACTOR SHALL DEVELOP AN INTERIM FIRE PROTECTION PROGRAM WHERE INTERRUPTIONS INVOLVE OCCUPIED SPACES, SCHEDULE INTERRUPTIONS WITH OWNER, ARCHITECT AND ENGINEER. s. INSPECTION AND TEST - I. PRELIMINARY TESTING: FLUSH NEWLY INSTALLED SYSTEMS PRIOR TO PERFORMING

WELL AS ENSURING PIPING IS UNOBSTRUCTED. HYDROSTATICALLY TEST SYSTEM, INCLUDING

- THE FIRE DEPARTMENT CONNECTIONS, AS SPECIFIED IN NFPA 13, IN THE PRESENCE OF THE GENERAL CONTRACTOR AND THE OWNER OR THE OWNER'S REPRESENTATIVE, TEST AND FLUSH - UNDERGROUND WATER LINE PRIOR TO PERFORMING HYDROSTATIC TESTS. - 2. FINAL INSPECTION AND TESTING: SUBJECT SYSTEM TO TESTS IN ACCORDANCE WITH NFPA 13,
- AND WHEN ALL NECESSARY CORRECTIONS HAVE BEEN ACCOMPLISHED, ADVISE THE GENERAL CONTRACTOR TO SCHEDULE FINAL INSPECTION AND TEST. a) CONNECTION TO THE FIRE ALARM SYSTEM SHALL HAVE BEEN IN SERVICE FOR AT LEAST
- TEN DAYS PRIOR TO THE FINAL INSPECTION, WITH ADJUSTMENTS MADE TO PREVENT FALSE ALARMS. b) FURNISH ALL INSTRUMENTS, LABOR AND MATERIALS REQUIRED FOR THE TESTS AND PROVIDE THE SERVICES OF THE INSTALLATION PROJECT MANAGER OR OTHER <del>- COMPETENT REPRESENTATIVE OF THE INSTALLER TO PERFORM THE TESTS. CORRECT</del> DEFICIENCIES AND RETEST SYSTEM AS NECESSARY, PRIOR TO THE FINAL ACCEPTANCE.
- OPERATIONS TESTS. t. INSTRUCTIONS: FURNISH THE SERVICES OF A COMPETENT INSTRUCTOR FOR NOT LESS THAN 2 - HOURS FOR INSTRUCTING THE OWNER AND/OR THE OWNER'S PERSONNEL IN THE OPERATION AND - MAINTENANCE OF THE SYSTEM, ON THE DATES REQUESTED BY OWNER AND/OR GENERAL - CONTRACTOR:

INCLUDE THE OPERATION OF ALL FEATURES OF THE SYSTEMS UNDER NORMAL

2103. UPGRADE THE EXISTING "LIMITED AREA SPRINKLER SYSTEM" IN ACCORDANCE WITH NFPA AND THE DRAWINGS INCLUDED THIS SET

- a. FIRE SUPPRESSION MATERIALS, EQUIPMENT, HEADS, INSTALLATION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 9, OBC, NFPA 13, NFPA 101, NFPA 170, U.L. "FIRE PROTECTION — EQUIPMENT DIRECTORY," AND FACTORY MUTUAL ENGINEERING CORP. (FM) APPROVAL CUIDE: b. USE ONLY PIPING AND FITTINGS IN ACCORDANCE WITH NEPA 13 REQUIREMENTS:
- c. FURNISH NEW "BACKFLOW" IN ACCORDANCE WITH NFPA 13, THE DRAWINGS AND THE UTILITY - PROVIDER'S REQUIREMENTS.
- d. FURNISH REQUIRED GAUGES IN ACCORDANCE WITH NEPA 13.
- e. PIPE HANGERS AND SUPPORTS I. SUPPORTS, HANGERS, ETG. OF AN APPROVED PATTERN PLACEMENT TO CONFORM TO NEPA 13: α) SYSTEM PIPING SHALL BE SUBSTANTIALLY SUPPORTED TO THE BUILDING STRUCTURE. b) THE INSTALLATION OF HANGERS AND SUPPORTS SHALL ADHERE TO THE REQUIREMENTS
- SET FORTH IN NFPA 13, "STANDARDS FOR INSTALLATION OF SPRINKLER SYSTEMS." c) MATERIALS USED IN THE INSTALLATION OR CONSTRUCTION OF HANGERS AND SUPPORTS SHALL BE LISTED AND APPROVED FOR SUCH APPLICATION. F. SPRINKLERS
- I. ALL SPRINKLERS SHALL BE FM APPROVED. PROVIDE QUICK RESPONSE SPRINKLERS IN ALL AREAS, EXCEPT WHERE SPECIFICALLY PROHIBITED BY THEIR LISTING OR APPROVAL. a) ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS: STANDARD RESPONSE:
- b) ELEVATOR PIT: SIDEWALL. c) TEMPERATURE RATINGS: IN ACCORDANCE WITH NFPA 13, EXCEPT AS FOLLOWS:
- I) ELEVATOR SHAFTS, ELEVATOR PITS AND ELEVATOR MACHINE ROOMS: INTERMEDIATE TEMPERATURE RATED. a. WALL, FLOOR AND CEILING PLATES
- . PROVIDE CHROME PLATED STEEL ESCUTCHEON PLATES FOR EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILINGS. <del>1. INSTALL THE U.L. AND FM APPROVED MATERIALS FOR THE ALTERED LIMITED AREA SPRINKLER</del>
- SYSTEM IN ACCORDANCE WITH THE DRAWINGS, CHAPTER 9, OBG AND NEPA 13 COMPLETE AND READY FOR OPERATION
- I. ACCURATELY CUT PIPE TO MEASUREMENTS ESTABLISHED AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING.
- 2. CONCEAL PIPING IN SPACES THAT HAVE A FINISHED CEILING UNLESS SPECIFICALLY WAIVED BY THE OWNER/CONTRACTOR. 3. LOCATE PIPING AND SPRINKLERS TO PREVENT TAMPERING BY UNAUTHORIZED PERSONNEL, AND TO PROVIDE A MINIMUM HEADROOM CLEARANCE OF SEVEN FEET SIX INCHES (7'-6").
- 4. FIRESTOPPING: SEE DIVISION OF THESE GENERAL NOTES. 5. FURNISH AND INSTALL REQUIRED IDENTIFICATION SIGNS WHERE REQUIRED.

i. INSPECTION AND TEST

13 REQUIREMENTS.

- I. BEFORE TESTING: FLUSH NEWLY INSTALLED SYSTEMS PRIOR TO PERFORMING TESTS IN ORDER TO REMOVE ANY DEBRIS AS WELL AS ENSURING PIPING IS UNOBSTRUCTED: 2. AFTER NEGESSARY CORRECTIONS, TEST THE COMPLETE SYSTEM IN ACCORDANCE WITH NFPA 0 **a** Q

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OMP

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ISSUE MARK DATE 4-5-21

Stephen M. Luchtenber

Expiration Date: December 31, 2021

STEPHEN

LUCHTENBERG

8546

DRAWN BY: NJP, SM

**GENERAL NOTES DIVISION 13 THROUGH** DIVISION 2

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY OTHERS. I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS; SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE PLUMBING CONTRACTOR (PC).

b. PROVIDE ACCESS DOOR(5) AS REQUIRED FOR FUTURE ACCESS TO WORK. COORDINATE LOCATION(S) WITH ENGINEER. REFERENCE PLUMBING DRAWINGS FOR SPECIFIC REQUIREMENTS. c. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH THE ROOF AND EXTERIOR

d. PC WILL BE RESPONSIBLE FOR PROVIDING UNDERGROUND DOMESTIC POTABLE WATER AND SANITARY PIPING TO FIVE (5) FEET OUTSIDE THE BUILDING UNLESS NOTED OTHERWISE.

e. REFERENCE DIVISION 07 OF THE GENERAL NOTES AND THE PLUMBING DRAWINGS FOR SEALANT REFERENCE THE PLUMBING DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER GENERAL

INFORMATION PERTAINING TO THIS PROJECT. a. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER OR THE OWNER'S REPRESENTATIVE OF THE INSTALLED SYSTEM. INCLUDE LOCATIONS OF VALVES, MAINTENANCE

2201. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION AS LISTED IN THE OPC-2017.

a. AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE (AHRI)

b. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

c. AMERICAN PETROLEUM INSTITUTE (API) d. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) e. AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE)

: AMERICAN SOCIETY OF SANITARY ENGINEERS (ASSE) . AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

AMERICAN WELDING SOCIETY (AWS)

AMERICAN WATER WORKS ASSOCIATION (AWWA) CAST IRON SOIL PIPE INSTITUTE (CISPI)

CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA)

CONSUMER PRODUCTS SAFETY COMMISSION (CPSC) m. FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

n. INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO)

o. INTERNATIONAL CODE COUNCIL, INC. (ICC) o. INTERNATIONAL FUEL GAS CODE (IFGC)

INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION (ISEA)

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE & FITTINGS INDUSTRY, INC. (MSS)

s. NATIONAL ELECTRICAL CODE (NEC) :. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

U. NATIONAL SANITATION FOUNDATION (NSF) v. PLUMBING AND DRAINAGE INSTITUTE (PDI)

W. UNDERWRITERS' LABORATORIES (UL)

x. U.S. DEPARTMENT OF ENERGY (USDE - ENERGY STAR PROGRAM) y. U.S. PRODUCTS STANDARDS (USPS)

2300. PROVIDE THE HEATING, AIR CONDITIONING, VENTILATION (HVAC) AND CONTROLS WORK AS SHOWN ON 2600. PROVIDE ALL ELECTRICAL WORK AS SHOWN ON THE DRAWINGS PREPARED BY MCMULLEN THE DRAWINGS PREPARED BYMCMULLEN ENGINEERING, AND IN ACCORDANCE WITH OBC CHAPTER 28, 2017, THE OHIO MECHANICAL CODE (OMC) 2017, AND THE INTERNATIONAL FUEL GAS CODE (IFGC), WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES ALL PERMITS (OTHER THAN PLANS APPROVAL) ALL DUCTING, AIR HANDLING EQUIPMENT, AIR CONDENSING EQUIPMENT, FRESH AIR VENTING, REFRIGERANT PIPING, FITTINGS, HANGERS AND SUPPORTS, INSULATION, THERMOSTATS, LOW VOLTAGE WIRING, REFRIGERANT, EXHAUST FANS AND DUCTING, CONDENSATE DRAIN SYSTEM, FIRE DAMPERS, AIR CONTROL DAMPERS, AIR DEVICES (GRILLES, LOUVERS AND DIFFUSERS), TESTING,

CONDITIONED AIR SYSTEM. a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY OTHERS. I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS:

SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE MECHANICAL (HVAC) CONTRACTOR (MC). b. PROVIDE ACCESS DOOR(S) AS REQUIRED FOR FUTURE ACCESS TO WORK, COORDINATE

BALANCING AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL

LOCATION(S) WITH ENGINEER. REFERENCE HVAC DRAWINGS FOR SPECIFIC REQUIREMENTS. c. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH THE ROOF AND EXTERIOR

d. REFERENCE DIVISION OT OF THE GENERAL NOTES AND THE HVAC DRAWINGS FOR SEALANT

e. REFERENCE THE HVAC DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER INFORMATION PERTAINING TO THIS PROJECT. F. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER OF THE INSTALLED SYSTEMS. INCLUDE MAINTENANCE REQUIREMENTS, THERMOSTAT PROGRAMMING, FILTER

2301. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION AS LISTED IN THE OMC-2017.

a. AIR CONDITIONING CONTRACTORS OF AMERICA (ACCA)

b. AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE (AHRI) c. AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL (AMCA)

d. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

e. AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS (ASHRAE) AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE) AMERICAN SOCIETY OF SANITARY ENGINEERS (ASSE)

AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AMERICAN WELDING SOCIETY (AMS)

AMERICAN WATER WORKS ASSOCIATION (AWWA)

I. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA) m. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

n. DEPARTMENT OF LABOR (DOL) o. FEDERAL SPECIFICATIONS (FS)

CHANGING/CLEANING, ETC.

p. INTERNATIONAL CODE COUNCIL, INC. (ICC)

INTERNATIONAL FUEL GAS CODE (IFGC)

INTERNATIONAL INSTITUTE OF AMMONIA REFRIGERATING (IIAR)

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE & FITTINGS INDUSTRY, INC. (MSS)

t. NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA) U. NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS (NBBI)

v. NATIONAL ELECTRICAL CODE (NEC)

W. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

x. NATIONAL SANITATION FOUNDATION (NSF)

y. SHEET METAL & AIR-CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) z. UNDERWRITERS' LABORATORIES (UL)

aa. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

bb. U. S. PRODUCTS STANDARDS (USPS)

ENGINEERING,, AND IN ACCORDANCE WITH OBC CHAPTER 27, AND THE LATEST EDITION OF NEPA 10, NATIONAL ELECTRICAL CODE (NEC) INTERNATIONAL ELECTRICAL CODE, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES PERMITS (OTHER THAN PLANS APPROVAL / BUILDING PERMIT), SERVICE EQUIPMENT, CONDUITS, CONDUCTORS, DISTRIBUTION PANELS, DISCONNECTS, CIRCUIT BREAKERS, HANGERS AND SUPPORTS, LIGHT FIXTURES, DEVICES, DEVICE COVERS, BOXES, TEMPORARY POWER AND LIGHTING TO THE BUILDING, GROUNDING, CIRCUIT BREAKERS, SITE LIGHTING AND BASES AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL ELECTRICAL SYSTEM.

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY OTHERS. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS;

SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE ELECTRICAL CONTRACTOR (EC). b. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH THE EXTERIOR WALLS AND

c. REFERENCE DIVISION OT OF THE GENERAL NOTES AND ELECTRICAL DRAWINGS FOR SEALANT

d. REFERENCE DIVISION 33 OF THE GENERAL NOTES FOR UNDERGROUND UTILITIES REQUIREMENTS. e. REFERENCE THE ELECTRICAL DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER

INFORMATION PERTAINING TO THIS PROJECT. f. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER OF INSTALLED EQUIPMENT.

2601. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION. a. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) c. AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) e. AMERICAN WELDING SOCIETY (AWS)

f. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA)

a. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC) FEDERAL SPECIFICATIONS (FS) I. INTERNATIONAL CODE COUNCIL, INC. (ICC)

NATIONAL ELECTRICAL CODE (NEC) . NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

I. UNDERWRITERS' LABORATORIES (UL) m. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

n. U. S. PRODUCTS STANDARDS (USPS)

NOTE SEE McMULLEN ENGINEERING DRAWINGS FOR ADDITIONAL MEP SPECIFICATIONS AND INFORMATION. WHERE MCMULLEN'S MEP REQUIREMENTS CONFLICT WITH THOSE FOUND ON THIS SHEET, IN ALL

CASES THE MOST STRINGENT SHALL APPLY.

2700. PROVIDE COMMUNICATIONS AND DATA SYSTEMS AS SHOWN ON THE DRAWINGS PREPARED BY X-PERT 2800. FURNISH AND INSTALL THE ELECTRONIC SAFETY AND SECURITY SYSTEMS AS SHOWN ON THE ENGINEERING, LLG., WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDE PANELS. BOXES, CONDUIT, CONDUCTORS, HANCERS AND SUPPORTS, AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL SYSTEM IN ACCORDANCE WITH OWNER REQUIREMENTS:

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY OTHERS. - I. WEATHER-PROOFING THE EXTERIOR FAGE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS; SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS

BY THE EC. b. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH EXTERIOR WALLS AND

c. REFERENCE DIVISION OF OF THE GENERAL NOTES AND THE ELECTRICAL DRAWINGS FOR SEALANT

d. REFERENCE DIVISION 33 OF THE GENERAL NOTES FOR UNDERGROUND UTILITIES REQUIREMENTS: e. REFERENCE THE ELECTRICAL DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER CENERAL INFORMATION PERTAINING TO THIS PROJECT.

REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION.

a. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) c. AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

e. AMERICAN WELDING SOCIETY (AWS) F. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA)

q. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

h. FEDERAL SPECIFICATIONS (FS) I. INTERNATIONAL CODE COUNCIL, INC. (ICC)

1. NATIONAL ELECTRICAL CODE (NEC)

k. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) I. UNDERWRITERS' LABORATORIES (UL)

m. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

n. U. S. PRODUCTS STANDARDS (USPS)

2702. PROVIDE THE REQUIRED MATERIALS AND LABOR FOR THE INSTALLATION OF THE OWNER'S FURNISHED DATA COMMUNICATIONS, VOICE COMMUNICATIONS, AND IF REQUIRED, AUDIO-COMMUNICATIONS EQUIPMENT AS SHOWN ON THE DRAWINGS, AND IF NOT SHOWN AS REQUIRED BY THE OWNER'S

INFORMATION TECHNOLOGY EQUIPMENT SUPPLIER (ITES)/CONTRACTOR AND AS NOTED HEREIN, WITH

COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. a. CONSULT WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE OWNER'S

- ITES/CONTRACTOR PRIOR TO STARTING ANY WORK. b. COORDINATE COMMUNICATIONS WORK WITH OWNER, THE OWNER'S REPRESENTATIVE AND THE OWNER'S ITES/CONTRACTOR.

I. THE ITES/CONTRACTOR SHALL FURNISH COMMUNICATIONS EQUIPMENT SHOP DRAWINGS TO THE CONTRACTOR DESCRIBING AND DETAILING ALL REQUIRED WORK TO BE FURNISHED BY THE CONTRACTOR

c. FURNISH THE FOLLOWING, AS A MINIMUM, AS REQUIRED BY THE OWNER, OWNER'S REPRESENTATIVE, - AND OWNER'S ITES/CONTRACTOR: - I. CUTTING AND PATCHING.

2. SOLID WOOD BLOCKING, CONCEALED OR NOT CONCEALED. 3. CHASES, RACEWAYS, OPENINGS, ETC.

4. ANCHORS, FASTENERS, PLATES, BOLTS, ETG. NOT FURNISHED BY THE BES. 5. MECHANICAL SYSTEMS.

6. ELECTRICAL SYSTEMS.

d. THE COMMUNICATIONS EQUIPMENT, DEVICES, CABLE/MIRING, ETC., WITH FINAL CONNECTIONS AND TESTING WILL BE PROVIDED BY THE ITES/CONTRACTOR.

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

DRAWINGS PREPARED BY X-PERT ENGINEERING, LLG, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLED SYSTEM. INCLUDE PANELS, BATTERIES, BOXES, CONDUIT, CONDUCTORS, DEVICES, CONTROLS, TERMINATIONS, HANGERS AND SUPPORTS, AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL SYSTEM IN ACCORDANCE WITH OHIO

BUILDING GODE AND OWNER REQUIREMENTS. a. SLEEVES: FURNISH AND DIMENSIONALLY LOGATE FOR INSTALLATION BY OTHERS:

I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS; SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE EG.

b. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH EXTERIOR WALLS AND

c. REFERENCE DIVISION OF OF THE GENERAL NOTES AND THE ELECTRICAL DRAWINGS FOR SEALANT - REQUIREMENTS d. REFERENCE DIVISION 33 OF THE GENERAL NOTES FOR UNDERGROUND UTILITIES REQUIREMENTS.

e. REFERENCE THE ELECTRICAL DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER GENERAL - INFORMATION PERTAINING TO THIS PROJECT.

2801. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION.

a. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

c. AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) e. AMERICAN WELDING SOCIETY (AWS)

F. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA) g. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

h. FEDERAL SPECIFICATIONS (FS)

i. INTERNATIONAL CODE COUNCIL, INC. (ICC)

: NATIONAL ELECTRICAL CODE (NEC) k. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

I. UNDERWRITERS' LABORATORIES, INC. (UL)

m. U.S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

n. U.S. PRODUCTS STANDARDS (USPS)

2802. PROVIDE THE REQUIRED MATERIALS AND LABOR FOR THE INSTALLATION OF THE OWNER'S ELECTRONIC SAFETY AND SECURITY (ESS) EQUIPMENT AS SHOWN ON THE DRAWINGS, AND IF NOT SHOWN AS REQUIRED BY THE OWNER'S ELECTRONIC SAFETY AND SECURITY EQUIPMENT SUPPLIER <del>(ESSES)/CONTRACTOR AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE</del>

INSTALLATION: a. CONSULT WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE OWNER'S

ESSES/CONTRACTOR PRIOR TO STARTING ANY WORK. b. GOORDINATE ESS WORK WITH OWNER, THE OWNER'S REPRESENTATIVE AND THE OWNER'S ESSES/CONTRACTOR.

I. THE ESSES/GONTRACTOR SHALL FURNISH ESS EQUIPMENT SHOP DRAWINGS TO THE CONTRACTOR DESCRIBING AND DETAILING ALL REQUIRED WORK TO BE FURNISHED BY THE

CONTRACTOR. c. FURNISH THE FOLLOWING, AS A MINIMUM, AS REQUIRED BY THE OWNER, OWNER'S REPRESENTATIVE,

AND OWNER'S ITES: - I. CUTTING AND PATCHING

2. SOLID WOOD BLOCKING, CONCEALED OR NOT CONCEALED. 3. CHASES, RACEWAYS, OPENINGS, ETC.

4. ANCHORS, FASTENERS, PLATES, BOLTS, ETC. NOT FURNISHED BY THE BES. 5. MECHANICAL SYSTEMS.

6. ELECTRICAL SYSTEMS.

2803. FIRE ALARM SYSTEM

d. THE ELECTRONIC SAFETY AND SECURITY EQUIPMENT, DEVICES, CABLE/MIRING, ETC. WITH FINAL - CONNECTIONS AND TESTING WILL BE PROVIDED BY THE ESSES/CONTRACTOR.

a. FIRE ALARM SYSTEM IS NEW EXISTING. INSTALL NEW DEVICES AND COMPONENTS AS INDICATED ON THE

- APPROVED SHOP DRAMINGS, WORK IS TO BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR AS - A PART OF THE ELECTRICAL CONTRACT, COORDINATE WORK WITH THE FIRE ALARM CONTRACTOR AND

- WORK OF OTHER TRADES PRIOR TO BEGINNING ANY WORK, ALL NEW DEVICES, EQUIPMENT, COMPONENTS, ETC. SHALL BE COMPATIBLE WITH EXISTING SYSTEM AND SHALL MEET ALL APPLICABLE CODE

b. DRAWINGS SHOW DEVICES ARE FOR GENERAL SCOPE ONLY, FIRE ALARM SUPPLIER SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL DEVICES AND COMPONENTS REQUIRED FOR A

- COMPLETE, FUNCTIONAL, AND APPROVED SYSTEM. c. FIRE ALARM CONTRACTOR SHALL PROVIDE AND SUBMIT FIRE ALARM SHOP DRAWINGS PREPARED BY - A OHIO REGISTERED PROFESSIONAL ENGINEER OR A STATE FIRE MARSHALL GERTIFIED DESIGNER TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR PLAN APPROVAL. PAY ALL FEES FOR PLAN APPROVAL.

PERMIT AND INSPECTIONS. d. EACH AND ALL ITEMS OF THE FIRE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT OF A SINGLE FIRE — ALARM SYSTEM MANUFACTURER UNDER THE APPROPRIATED CATEGORY BY THE UNDERWRITER'S <del>ratories, inc. (JL), and shall bear the U.L. Label. All control equipment shall be listed</del> UNDER UL CATEGORY UOJZ AS A SINGLE CONTROL UNIT, PARTIAL LISTING SHALL NOT BE ACCEPTABLE; e. IN ADDITION TO THE UL-UOJZ REQUIREMENT LISTED ABOVE, THE SYSTEM CONTROLS SHALL BE UL LISTED

FOR POWER LIMITED APPLICATIONS PER NEC 760, ALL CIRCUITS MUST BE MARKED IN ACCORDANCE WITH - NEC ARTICLE 760-23 F. FIRE ALARM INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NFPA IOI LIFE SAFETY CODE,

THE OHIO BUILDING CODE, ICC/ANSI AIIT.I, AND THE AHJ. - I. MAKE ALL SUBMITTALS, PAY ALL FEES, AND SECURE PLAN APPROVAL AND A PERMIT FROM THE ALL: a. COMPLETE WIRING INSTRUCTIONS AND DRAWINGS, PREPARED BY THE SYSTEM MANUFACTURER, SHALL BE - INCLUDED IN THE SHOP DRAWING SUBMITTALS.

h. ALL AIR HANDLING UNITS SHALL SHUT DOWN WHEN SMOKE IS DETECTED IN RETURN DUCT BY THE SMOKE DETECTORS, THIS SHALL BE ACCOMPLISHED BY WIRING THE MOTOR STARTER OR BUILT IN CONTROL THROUGH CONTACTS

- I. A FIRE ALARM PANEL (FAP) SHUT DOWN OF ASSOCIATED FAN POWERED VAV OR FAN GOIL BOXES SHALL BE ACCOMPLISHED THROUGH TEMPERATURE CONTROL. I INSTALL ATION I. PROVIDE AND INSTALL DEVICES, EQUIPMENT, COMPONENTS, ETC. IN ACCORDANCE WITH THE SHOP

PRAWINGS, ALL APPLICABLE CODES AND THE MANUFACTURER'S PRINTED INSTRUCTIONS, ALL WIRING

SHALL BE INSTALLED IN STRICT COMPLIANCE WITH ALL THE PROVISIONS OF NEG - ARTICLE 760 A AND G. POWER-LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS OR IF REQUIRED MAY BE RECLASSIFIED AS NON-POWER LIMITED AND WIRED IN ACCORDANCE WITH NEC-ARTICLE 760 A AND B. UPON COMPLETION. THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO THE OWNER AND CENERAL CONTRACTOR, ALL JUNCTION BOXES SHALL BE SPRAYED RED AND LABELED "FIRE ALARM", WIRING

2. FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT IN ANY LOCATION WHERE— PIN'SIGAL PROTECTION IS REQUIRED AND AS DESCRIBED BELOW. ALL WIRING CONCEALED BY CONSTRUCTION MUST BE INSTALLED IN A NEAT AND ORDERLY MANNER, BUNDLED TOGETHER AND SHALL NOT BE ALLOWED TO COME INTO CONTACT WITH PIPING OR DUCTWORK, WHERE WIRING IS INSTALLED IN ATTIC, IT SHALL BE ROUTED IN SUCH A WAY THAT IT WILL NOT BE SUSCEPTIBLE TO

DAMAGE BY ANYONE ACCESSING ATTIC. a) INSTALL IN CONDUIT WHEN:

COLOR CODE SHALL BE MAINTAINED THROUGHOUT THE INSTALLATION.

I) IN MECHANICAL ROOMS AND GARAGES

2) IN BLOCK WALLS 3) ABOVE DRYWALL CEILINGS

THE OWNER AND THE GENERAL CONTRACTOR.

4) EXPOSED BELOW & FEET 5) ALL INACCESSIBLE AREAS - 3. INSTALLATION OF EQUIPMENT AND DEVICES THAT PERTAIN TO OTHER WORK IN THE CONTRACT SHALL BE CLOSELY COORDINATED WITH THE APPROPRIATE CONTRACTORS.

- 4. THE CONTRACTOR SHALL CLEAN ALL DIRT AND DEBRIS FROM THE INSIDE AND THE OUTSIDE OF THE FIRE ALARM EQUIPMENT AFTER COMPLETION OF THE INSTALLATION. - 5. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL PROVIDE ON SITE SUPERVISION OF

INSTALLATION. - 6. THE CONTRACTOR SHALL PROVIDE RELAYS AS NECESSARY FOR THE DOOR UNLOCKS ON EACH FLOOR AS REQUIRED. - THE CONTRACTOR SHALL PROVIDE TWO-GANGABLE BOXES FOR EACH PULL STATION SHOWN AS

-----REQUIRED. 8. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF "AS BUILT" DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT, THE DRAWINGS ARE TO SHOW ALL CONDUIT, DEVICES, WIRE, AND SIZES, 9. LOCATION OF FLOW SWITCHES AND TAMPER CONTACTS WILL VARY FROM THOSE SHOWN ON DRAMINGS. PRIOR TO ROUGH-IN OF FIRE ALARM SYSTEM, COORDINATE EXACT LOCATION WITH FIRE

. I. A REPRESENTATIVE OF THE MANUFACTURER SHALL FIELD TEST SYSTEM IN ACCORDANCE NFPA-72H IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, THE FIRE MARSHAL AND AN INSPECTOR FROM THE ALL UPON COMPLETION OF A SUCCESSFUL TEST, THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO

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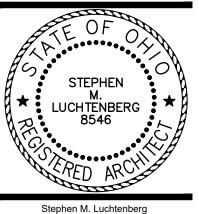
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COMMISSION

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**GENERAL NOTES DIVISION 22 THROUGH DIVISION 28** 

a. BACKFILL: SOIL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL USED TO FILL AN

- b. BASE COURSE: AGGREGATE LAYER PLACED BETWEEN SUBBASE COURSE AND ASPHALT PAVING. c. BEDDING COURSE: AGGREGATE LAYER PLACED OVER EXCAVATED SUBGRADE IN A TRENCH BEFORE
- d. BORROW SOIL: SATISFACTORY SOIL IMPORTED FROM OFF-SITE FOR USE AS FILL OR BACKFILL. e. ENGINEERED FILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND, WITH AT LEAST 90 PERCENT PASSING A I-I/2 INCH SIEVE AND NOT MORE THAN I2 PERCENT PASSING A NUMBER 200 SIEVE. f. DRAINAGE COURSE: AGGREGATE LAYER SUPPORTING THE SLAB-ON-GRADE THAT ALSO MINIMIZES

q. EXCAVATION: REMOVAL OF MATERIAL ENCOUNTERED ABOVE SUBGRADE ELEVATIONS AND TO LINES

h. FILL: SOIL USED TO RAISE EXISTING GRADES.

UPWARD CAPILLARY FLOW OF PORE WATER.

- SUBBASE COURSE: AGGREGATE LAYER PLACED BETWEEN EXCAVATED SUBGRADE AND BASE COURSE AT ASPHALT PAVING OR PLACED BETWEEN EXCAVATED SUBGRADE AND CONCRETE
- SUBGRADE: UPPERMOST SURFACE OF AN EXCAVATION OR THE TOP SURFACE OF A FILL OR BACKFILL IMMEDIATELY BELOW SUBBASE, DRAINAGE FILL, DRAINAGE COURSE OR TOPSOIL
- k. Unauthorized excavation: Removal of Materials beyond indicated subgrade elevations OR INDICATED LINES AND DIMENSIONS WITHOUT WRITTEN AUTHORIZATION BY THE OWNER. PAYMENT WILL NOT BE MADE FOR UNAUTHORIZED EXCAVATION OR REMEDIAL WORK REQUIRED TO CORRECT UNAUTHORIZED EXCAVATION.
- I. AUTHORIZED ADDITIONAL EXCAVATION: REMOVAL OF ADDITIONAL MATERIAL AUTHORIZED BY THE CIVIL ENGINEER BASED ON THE DETERMINATION BY THE OWNER'S SOILS TESTING AGENCY THAT UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT REQUIRED SUBGRADE ELEVATIONS. REMOVAL OF UNSUITABLE MATERIAL AND ITS REPLACEMENT AS DIRECTED WILL BE REIMBURSED
- PURSUANT TO THE CONTRACT DOCUMENTS. m., ROCK: ROCK MATERIAL IN BEDS, LEDGES, UNSTRATIFIED MASSES, CONGLOMERATE DEPOSITS AND BOULDERS OF ROCK MATERIAL THAT EXCEED I CUBIC YARD FOR BULK EXCAVATION AND 3/4 CUBIC YARD FOR FOOTING, TRENCH AND PIT EXCAVATION THAT CANNOT BE REMOVED BY ROCK EXCAVATING EQUIPMENT WITHOUT SYSTEMATIC DRILLING, RAM HAMMERING, RIPPING OR BLASTING.
- CIVIL ENGINEER OR THE OWNER'S SOILS TESTING AGENCY. o. UNIT OF MEASURE: CUBIC YARD COMPUTED BY THE AVERAGE AREA METHOD FROM CROSS-SECTION TAKEN BEFORE AND AFTER EXCAVATION.

n. CONTAMINATED SOILS: SOIL THAT CONTAINS CONTAMINATES AS DEFINED AND DETERMINED BY THE

- p. UNSUITABLE MATERIALS I. FILL: TOPSOIL; FROZEN MATERIALS; CONSTRUCTION MATERIALS AND MATERIALS SUBJECT TO DECOMPOSITION; CLODS OF CLAY AND STONES LARGER THAN 3 INCHES; ORGANIC MATERIAL INCLUDING SILTS, WHICH ARE UNSTABLE; AND INORGANIC MATERIALS, INCLUDING SILTS, TOO WET TO BE STABLE AND ANY MATERIAL WITH A LIQUID LIMIT AND PLASTICITY INDEX EXCEEDING 40 AND IS RESPECTIVELY. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT
- MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPLETION. 2. EXISTING SUBGRADE (EXCEPT FOOTING SUBGRADE): MATERIALS THAT ARE NOT CAPABLE OF DIRECT SUPPORT OF SLABS, PAVEMENT AND SIMILAR ITEMS WITH POSSIBLE EXCEPTION OF IMPROVEMENT BY COMPACTION, PROOFROLLING OR SIMILAR METHODS.
- 3. EXISTING SUBGRADE (FOOTINGS ONLY): NO FILL OR BACKFILL.
- 3103. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION. USE ONLY THE MOST RECENT PUBLISHED/PRINTED STANDARDS.
  - a. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDING AND FACILITIES
  - b. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- . OSHA 29 CFR 1926.650, EXCAVATION, SCOPE, APPLICATION AND DEFINITIONS 2. OSHA 29 CFR 1926.651, EXCAVATION, SPECIFIC EXCAVATION REQUIREMENTS
- 3. OSHA 29 CFR 1926.652, EXCAVATION, REQUIREMENTS FOR PROTECTIVE SYSTEMS c. OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
- I. ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS
- 2. ODOT ITEM IOI, DEFINITION AND TERMS
- 3. ODOT ITEM 201. CLEARING AND GRUBBING 4. ODOT ITEM 204, SUBGRADE COMPACTION AND PROOFROLLING
- 5. ODOT ITEM 304, AGGREGATE BASE
- d. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) ASTM C778, STANDARD SPECIFICATION FOR STANDARD SAND
- 2. ASTM DI24I, STANDARD SPECIFICATION FOR MATERIALS SOIL-AGGREGATE SUBBASE, BASE
- 3. ASTM D2487, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING
- 4. ASTM D2488, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE)
- 5. ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 6. ASTM D5268, STANDARD SPECIFICATION FOR TOPSOIL USED FOR LANDSCAPING PURPOSES

### 3104. MATERIAL

a. SUBBASE COURSE: ASTM D2940; ITEM 304; NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND. b. DRAINAGE FILL: WASHED ODOT 703, EVENLY GRADED MIXTURE OF CRUSHED STONE, AGGREGATE

GRADING SIZE 57 WITH 100 PERCENT PASSING A 1-1/2 SIEVE AND NOT MORE THAN 5 PERCENT

- PASSING A No. 8 SIEVE. c. GRANULAR FILL: ASTM D2940; ITEM 67; NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF
- NATURAL CRUSHED STONE GRAVEL.
- d. SOIL FILL AND BACKFILL: ASTM D2487; CLASSIFICATION GW, GP, GM, SW, SP AND SM, ALONE OR IN COMBINATION; FREE OF ROCK LARGER THAN 2 INCHES DIAMETER, DEBRIS, WASTE, VEGETATION AND/OR OTHER DELETERIOUS MATERIAL
- e. TOPSOIL: UTILIZE EXISTING; AS REQUIRED, PROVIDE NEW FROM ACCEPTABLE OFF-SITE LOCATION.
- 3105. THOUGH THE COST OF SOILS AND BEARING TESTING IS THE RESPONSIBILITY OF THE OWNER, THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITNESSING AND TESTING WITH THE AGENCY
- 3106. FIELD DETERMINE AND VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WHICH AFFECT ANY NEW CONSTRUCTION PRIOR TO THE START OF ANY WORK. IMMEDIATELY NOTIFY THE OWNER, THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS; DO NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ALL DISCREPANCIES HAVE BEEN RESOLVED.
- 3101. WHERE LOOSE FILL MATERIALS ARE ENCOUNTERED, THE LOOSE MATERIALS SHALL BE OVER-EXCAVATED DOWN TO SUITABLE SOILS. THE OVER-EXCAVATED AREA SHALL THEN BE FILLED WITH SATISFACTORY SOIL MATERIALS WHICH WILL PRODUCE THE RESULTS OF COMPACTION AND LOAD CARRYING CAPACITY REQUIRED. THE FILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 3100.

### REQUIREMENTS OF THE OBC, OHIO EPA REGULATIONS AND OSHA REGULATIONS. INCLUDES, BUT IS NOT

- NECESSARILY LIMITED TO, PERMITS (OTHER THAN BUILDING PERMIT); SITE CLEARING; STRIPPING STOCKPILING AND REDISTRIBUTION OF TOPSOIL; CUT; FILL; DEWATERING; COMPACTION; PROOFROLLING; ROUGH AND FINISH GRADING; BACKFILL; DUST CONTROL; FOUNDATION EXCAVATION; PREPARATION OF SUBGRADES FOR FLEXIBLE AND RIGID PAYINGS AND ALL OTHER ITEMS AND INCIDENTALS AS
- a. PROVIDE, MAINTAIN AND REMOVE, AT THE COMPLETION OF ALL WORK, SEDIMENT AND EROSION CONTROL MEASURES REQUIRED BY LOCAL JURISDICTION AND AND STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS.
- b. PROTECT EXISTING TREES, SHRUBS AND OTHER LANDSCAPING ELEMENTS NOT BEING REMOVED AS
- DESIGNATED, AND IF NOT DESIGNATED, AS REQUIRED BY THE OWNER. c. PROVIDE OFF-SITE, LEGAL DISPOSAL OF ALL DEBRIS, EXCESS SOILS, NON-HAZARDOUS
- CONTAMINATED SOILS AND EXCESS TOPSOIL. d. Provide, Maintain and Remove, at the completion of concrete operations, a fully
- ENCAPSULATED COLLECTION AREA FOR CONCRETE TRUCK WASH-OUT. e. PROVIDE SOIL STABILIZATION/PROTECTION OF DISTURBED AREAS AND STOCKPILED SOILS AS

REQUIRED BY LOCAL JURISDICTION AND OHIO EPA REGULATIONS.

- F. PRIOR TO ANY EXCAVATION WORK, LOCATE AND IDENTIFY EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES IN THE WORK AREA. PROVIDE PROTECTION OF ALL UTILITIES SCHEDULED TO REMAIN
- a. FILLS AT FOUNDATIONS, THE BUILDING SLAB-ON-GRADE AND PAVED AREAS SHALL BE PLACED IN NO MORE THAN 8 INCH LIFTS AND POWER VIBRATOR COMPACTED TO 100 PERCENT OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. DURING COMPACTION, MAINTAIN MOISTURE CONTENT NOT GREATER THAN 2 PERCENT ABOVE OR BELOW
- THE OPTIMUM MOISTURE CONTENT h. FILLS AT LAWNS AND UNPAYED AREAS SHALL BE PLACED IN NO MORE THAN 8 INCH LIFTS AND POWER VIBRATOR COMPACTED TO 90 PERCENT OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. DURING COMPACTION, MAINTAIN MOISTURE CONTENT NOT GREATER THAN 2 PERCENT ABOVE OR BELOW THE OPTIMUM MOISTURE CONTENT.
- I. AT THE COMPLETION OF ALL UNDERGROUND UTILITIES AND BACK-FILL OPERATIONS, PROVIDE ROUGH GRADING OF THE SITE THAT ESTABLISHES POSITIVE DRAINIAGE AWAY FROM THE BUILDING. CORRECT PONDING AS REQUIRED FOR THE DURATION OF THE PROJECT. THE COMPACTED SUBGRADE AND SUBBASE SHALL BE EXTENDED A MINIMUM IS INCHES AT THE
- EDGE OF PAVEMENTS AND A MINIMUM OF 6 INCHES BEYOND THE LAWN SIDE OF SIDEWALKS AND k. COMPACTED AGGREGATE SUBBASE LIFT THICKNESS IS LIMITED TO 8 INCHES WHEN USING A VIBRATORY ROLLER WEIGHING MORE THAN 12 TONS, SIX INCHES WHEN THE VIBRATORY ROLLER WEIGHS BETWEEN IO AND 12 TONS AND 4 INCHES WHEN USING A PLATE COMPACTOR VERSUS A
- VIBRATORY ROLLER. I. AT THE COMPLETION OF CONCRETE PAVING, CURBING AND THE INTERMEDIATE LAYER OF ASPHALT PAVING, PROVIDE BACKFILL, FINISH GRADING AND REDISTRIBUTION OF TOPSOIL. THE SUBGRADES AT PLANTING (MINIMUM 12 INCHES DEPTH) AND LAWN AREAS (MINIMUM SIX INCHES DEPTH) ARE TO BE LOOSENED PRIOR TO THE PLACEMENT OF TOPSOIL. THE TOPSOIL SHALL BE REASONABLY FREE OF DEBRIS, ROOTS AND STONES AND DISTRIBUTED TO THE ELEVATIONS INDICATED ON THE DRAWINGS. CORRECT PONDING AS REQUIRED FOR THE DURATION OF THE PROJECT OR UNTIL SEEDING OPERATIONS HAVE STARTED.
- m. TOLERANCES
- VERIFY ROUGH GRADING SUBGRADE ELEVATION IS WITHIN ONE TENTH OF A FOOT. 2. AGGREGATE SUBBASE FOR PAVING AND SIDEWALKS SHALL BE 3/8 INCHES IN IO FEET.

### **DIVISION 32 - EXTERIOR IMPROVEMENTS**

- 3200. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES. a. CONCRETE MIX DESIGN; REFERENCE GENERAL NOTES SECTION 0300 FOR REQUIREMENTS
  - b. ADMIXTURES
  - c. SEALANTS d. SEALER PRODUCT
- e. ACCESSIBLE PARKING SIGNAGE AND POSTS f. TRAFFIC SIGNAGE AND POSTS
- q. PAYEMENT MARKING PAINT
- 3201. REFERENCE THE SITE PLAN AND CIVIL ENGINEERING DRAWINGS FOR SPECIFIC REQUIREMENTS AND SPECIFICATIONS.

### 3202. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

- a. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDING AND FACILITIES
- b. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- I. OSHA 29 CFR 1926.650, EXCAVATION, SCOPE, APPLICATION AND DEFINITIONS 2. OSHA 29 CFR 1926.651, EXCAVATION, SPECIFIC EXCAVATION REQUIREMENTS

3. OSHA 29 CFR 1926.652, EXCAVATION, REQUIREMENTS FOR PROTECTIVE SYSTEMS

- c. AMERICAN ASSOCIATION OF STATE HIGHWAYS AND TRANSPORTATION (AASHTO) I. AASHTO M 154, STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE 2. AASHTO M 248, STANDARD SPECIFICATION FOR READY-MIXED WHITE AND YELLOW TRAFFIC
- 3. AASHTO M 320, STANDARD SPECIFICATION FOR PERFORMANCE-GRADED ASPHALT BINDER d. OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
- I. ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 2. ODOT SUPPLEMENT SPECIFICATION 823, LIGHT TRAFFIC ASPHALT MIX COMPOSITION
- REQUIREMENTS 3. ODOT ITEM 253, PAVEMENT REPAIR
- 4. ODOT ITEM 401, ASPHALT CONCRETE PAVEMENTS GENERAL 5. ODOT ITEM 403, ASPHALT CONCRETE QUALITY CONTROL AND ACCEPTANCE
- 6. ODOT ITEM 409, SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS 7. ODOT ITEM 423, CRACK SEALING, HOT APPLIED
- 8. ODOT ITEM 441, CONTRACTOR MIX DESIGN AND QUALITY CONTROL GENERAL 9. ODOT ITEM 451, REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- IO. ODOT ITEM 452, NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- II. ODOT ITEM 499, CONCRETE GENERAL 12. ODOT ITEM 641, PAVEMENT MARKING - GENERAL
- e. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- I. NEMA TC 2, STANDARD FOR ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT 2. NEMA TC 3, STANDARD FOR POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC
- 3. NEMA WC 10, POWER CABLES RATED 2000 VOLTS OR LESS FOR THE DISTRIBUTION OF
- ELECTRICAL ENERGY f. UNDERWRITERS LABORATORY (UL)
- I. UL 467, GROUNDING AND BONDING EQUIPMENT 2. UL 514B, CONDUIT, TUBING AND CABLE FITTINGS
- 3. UL 651, STANDARD SCHEDULE 40 AND 80 RIGID PVC CONDUIT AND FITTINGS
- a. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) I. NFPA 70, NATIONAL ELECTRIC CODE
- h. AMERICAN CONCRETE INSTITUTE (ACI)
- I. ACI IIT, SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
- 2. ACI 201, GUIDE TO DURABLE CONCRETE
- 3. ACI 212, REPORT ON CHEMICAL ADMIXTURES FOR CONCRETE
- 4. ACI 222R, PROTECTION OF METALS IN CONCRETE AGAINST CORROSION
- 5. ACI 224, JOINTS IN CONCRETE CONSTRUCTION
- 6. ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE
- 7. ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE ACI 305R, GUIDE AND STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING
- 9. ACI 306R, GUIDE AND STANDARD SPECIFICATION FOR COLD MEATHER CONCRETING
- 10. ACI 308, GUIDE FOR CURING CONCRETE II. ACI 308.I, SPECIFICATION FOR CURING CONCRETE
- 12. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE 13. ACI 34TR, GUIDE TO FORMWORK FOR CONCRETE
- i. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
- I. CRSI, MANUAL OF STANDARD PRACTICE 2. CRSI, PLACING REINFORCING BARS
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- I. ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON
- 2. ASTM A615, STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR CONCRETE REINFORCEMENT
- ASTM AIO64. STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIR REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE
- 4. ASTM BI, STANDARD SPECIFICATION FOR HARD-DRAWN COPPER WIRE
- 5. ASTM B3. STANDARD SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE
- 6. ASTM B258, STANDARD SPECIFICATION FOR NOMINAL DIAMETERS AND CROSS-SECTIONAL
- AREAS OF AWG SIZES OF SOLID ROUND WIRES USED AS ELECTRICAL CONDUCTORS 7. ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATE
- 8. ASTM C94, STANDARD SPECIFICATION FOR READY-MIXED CONCRETE 9. ASTM CI50, STANDARD SPECIFICATION FOR PORTLAND CEMENT
- IO. ASTM CITI, STANDARD SPECIFICATION FOR SHEET MATERIALS FOR CURING CONCRETE II. ASTM C260, STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE 12. ASTM C309, STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR
- CURING CONCRETE 13. ASTM C330, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES IN STRUCTURAL
- CONCRETE 14. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE 15. ASTM C618, STANDARD SPECIFICATION FOR COAL FLY ASH AND RAW OR CALCINED NATURAL POZZOLAN FOR USE IN CONCRETE
- 16. ASTM CTT8, STANDARD SPECIFICATION FOR STANDARD SAND 17. ASTM CI582, STANDARD SPECIFICATION FOR ADMIXTURES TO INHIBIT CHLORIDE-INDUCED
- CORROSION OF REINFORCING STEEL IN CONCRETE 18. ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF HYDRAULIC CEMENT CONCRETE
- 19. ASTM D2301, STANDARD SPECIFICATION FOR VINYL CHLORIDE PLASTIC PRESSURE-SENSITIVE ELECTRICAL INSULATING TAPE 20.ASTM DI24I, STANDARD SPECIFICATION FOR MATERIALS SOIL-AGGREGATE SUBBASE, BASE
- AND SURFACE COURSES 21. ASTM D2487, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING
- 22.ASTM D2488, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE) 23. ASTM D2564, STANDARD SPECIFICATION FOR SOLVENT CEMENTS FOR POLY VINYL CHLORIDE
- (PVC) PLASTIC PIPING SYSTEMS 24.ASTM D2855, STANDARD PRACTICE FOR MAKING SOLVENT-CEMENTED JOINTS WITH POLY VINYL CHLORIDE (PVC) PIPE AND FITTINGS
- 25. ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 26.ASTM D5268, STANDARD SPECIFICATION FOR TOPSOIL USED FOR LANDSCAPING PURPOSES
- CONDUIT AND FITTINGS FOR UNDERGROUND INSTALLATION 28.ASTM F656, STANDARD SPECIFICATION FOR PRIMERS FOR USE IN SOLVENT CEMENT JOINTS POLY VINYL CHLORIDE (PVC), PLASTIC PIPE AND FITTINGS
- 27. ASTM F512, STANDARD SPECIFICATION FOR SMOOTH-WALL POLY VINYL CHLORIDE (PVC)

- 3203. PROVIDE ASPHALT PAVING AS INDICATED ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, AND IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION'S (ODOT) CURRENT EDITION OF SPECIFICATIONS, DETAILS AND MATERIALS SPECIFICATIONS. INCLUDES SUBBASE, INTERMEDIATE COURSE, SURFACE COURSE, PRIME COAT, TACK COAT, PAVEMENT MARKING, BARRICADES FOR PROTECTION OF THE WORK AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.
- a. MATERIAL, STANDARD WEIGHT ASSEMBLY I. AGGREGATE SUBBASE: ODOT ITEM 304; MINIMUM 6 INCHES THICK OR AS NOTED/SHOWN ON THE
- CIVIL ENGINEERING DRAWINGS. 2. PRIME COAT: ODOT ITEM 408; APPLIED AT A MINIMUM OF 0.25 GALLONS PER SQUARE YARD OR
- AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS.
- 3. INTERMEDIATE COURSE: ODOT ITEM 448, TYPE 2; MINIMUM 2-1/2 INCHES THICK OR AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS
- 4. TACK COAT: ODOT ITEM 401; PROVIDE BETWEEN THE INTERMEDIATE AND WEAR COURSES; APPLIED AT THE RATE PER ODOT SPECIFICATIONS. 5. SURFACE COURSE: ODOT ITEM 448, TYPE I; MINIMUM I-I/2 INCHES THICK OR AS NOTED/SHOWN ON
- THE CIVIL ENGINEERING DRAWINGS. 6. PAVEMENT MARKING PAINT: AASHTO M 248; TYPE S, LEAD AND CHROMATE FREE; READY-MIXED ALKYD-RESIN 54 TO 62 PERCENT PIGMENT BY WEIGHT; VISCOSITY TO TO 90 AT 17 DEGREES F; WHITE FOR NON-ACCESSIBLE SPACES, BLUE FOR ACCESSIBLE SPACES; MINIMUM TOTAL DRY MIL
- EMULSIFIED CRACK SEALER: ASTM D6945; HOT APPLIED; NON-RECYCLED FIBER REINFORCED. b. MATERIAL, HEAVY DUTY ASSEMBLY I. AGGREGATE SUBBASE: ODOT ITEM 304; MINIMUM 6 INCHES THICK OR AS NOTED/SHOWN ON THE
- 2. PRIME COAT: ODOT ITEM 408; APPLIED AT A MINIMUM OF 0.25 GALLONS PER SQUARE YARD OR
- 3. ASPHALT BASE COURSE: ODOT ITEM 301 OR 302; MINIMUM 5-1/2 INCHES THICK OR AS NOTED/SHOWN ON THE ENGINEERING DRAWINGS

AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS

- 4. TACK COAT: ODOT ITEM 407; PROVIDE BETWEEN THE INTERMEDIATE AND WEAR COURSES; APPLIED AT THE RATE PER ODOT SPECIFICATIONS
- 5. <del>SURFACE COURSE: ODOT ITEM 404; MINIMUM I-I/2 INCHES THICK OR AS NOTED/SHOWN ON THE</del> CIVIL ENGINEERING DRAWINGS. 6. PAVEMENT MARKING PAINT: AASHTO M 246; TYPE 5, LEAD AND CHROMATE FREE; READY-MIXED

ALKYD-RESIN 54 TO 62 PERCENT PIGMENT BY WEIGHT; VISCOSITY 70 TO 90 AT 77 DEGREES F;

- WHITE FOR NON-ACCESSIBLE SPACES, BLUE FOR ACCESSIBLE SPACES; MINIMUM TOTAL DRY MIL EMULSIFIED GRACK SEALER: ASTM D6945, HOT APPLIED; NON-RECYCLED FIBER REINFORGED. c. PROVIDE CRACK SEAL MATERIAL, MINIMUM 4 INCHES WIDE, WHERE ASPHALT PAYING ABUTS
- DISSIMILAR MATERIAL SUCH AS, BUT NOT LIMITED TO, CURBING, CONCRETE APRONS, ETC. AND ASPHALT PAVING CONSTRUCTION JOINTS.
- d. Provide the accessible parking signage as shown on the site plan and indicated on SHEET ADA. INSTALLATION SHALL BE IN ACCORDANCE WITH ICC/ANSI AII7.I.
- e. PAVING SHALL BE EXTENDED A MINIMUM OF 6 INCHES BEYOND THE LAWN SIDE OF EXTRUDED
- f. THE USE OF RECYCLED ASPHALT MATERIAL IS AN ACCEPTABLE ALTERNATIVE IF APPROVED BY THE CIVIL ENGINEER AND ALL WORK IS PERFORMED IN ACCORDANCE WITH ODOT SPECIFICATIONS.. 3214. SIDEWALKS q. DO NOT PLACE THE SURFACE COURSE UNTIL ALL CONSTRUCTION TRAFFIC HAS CEASED ACCESS TO
- h. DURING TRANSPORT AND PLACEMENT, MAINTAIN THE TEMPERATURE OF ASPHALT MATERIAL PER
- ODOT SPECIFICATIONS. I. REFERENCE DIVISION 31 OF THE GENERAL NOTES AND CIVIL DRAWINGS FOR REQUIREMENTS PERTAINING TO THE PLACEMENT OF SUBBASE MATERIAL.
- J. INTERMEDIATE COARSE TOLERANCE (SMOOTHNESS): NOT EXCEEDING 1/4 INCHES IN 10 FEET TRANSVERSELY AND LONGITUDINALLY
- k. SURFACE COARSE TOLERANCE (SMOOTHNESS): NOT EXCEEDING I/8 INCH IN IO FEET TRANSVERSELY AND LONGITUDINALLY.
- I. THE SMOOTHNESS OF THE SURFACE COURSE SHALL BE IN COMPLIANCE WITH ODOT PROPOSAL NOTE
- 3204. PROVIDE SITE CONCRETE AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, SIDEWALKS, MANHOLE APRONS, EQUIPMENT AND OTHER SPECIALTY PADS, CURBING, SITE LIGHTING BASES, BOLLARD FOUNDATIONS AND FILL, TERMITE TREATMENT OF SOILS AND ALL OTHER ITEMS AND INCIDENTALS AS

### 3205. SITE CONCRETE a. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE CIVIL ENGINEERING

D14 4 11103.		
<u>CLA55</u> III -	LOCATION EQUIPMENT SLAB-ON-GRADE, SIDEWALK, PATIO, BOLLARD FILL, SITE LIGHTING BASE - ALL AIR ENTRAINED 5 TO 7 PERCENT	<u>f'c</u> 4,500 p.s.l.
QC 2	REFUSE ENCLOSURE SLAB-ON-GRADE REFUSE ENCLOSURE APRON	4,500 p.s.i.

- ALL AIR ENTRAINED 6 PERCENT TO +/- 2 PERCENT

DRIVE APRON

- b. THICKNESS AS INDICATED ON THE DRAWINGS. c. REFERENCE DIVISION 31 OF THE GENERAL NOTES AND CIVIL DRAWINGS FOR REQUIREMENTS
- PERTAINING TO THE PLACEMENT OF SUBBASE MATERIAL. d. MATERIAL I. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE CIVIL ENGINEERING
- DRAWINGS AND THE STRUCTURAL DRAWINGS. 2. PORTLAND CEMENT: ASTM CI50, TYPE I.
- 3. PORTLAND CEMENT, HIGH EARLY STRENGTH: ASTM CI50, TYPE III. 4. GROUND GRANULATED BLAST FURNACE SLAG IN ACCORDANCE WITH ASTM C989; GRADE 100; LIMITED TO 30 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIAL
- 5. COARSE AGGREGATES: ASTM C33; ODOT ITEM 103; FROM ONE SOURCE. 6. FLY ASH: ASTM C618; TYPE C; LIMITED TO 25 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIAL.
- 7. FINE AGGREGATES: ASTM C33: ODOT ITEM 703: FROM ONE SOURCE. 8. POTABLE WATER: ASTM CI602 AND TESTED IN ACCORDANCE WITH ASTM CI603; FRESH AND FREE OF ACIDS, ALKALIS AND FOREIGN OR ORGANIC MATERIALS; MAXIMUM WATER TO CEMENT
- RATIO 0.45. 9. ADMIXTURES
- a) AIR ENTRAINING: ASTM C260; AASHTO M 154 b) WATER-REDUCING: ASTM C494, TYPE A.
- c) RETARDING: ASTM C494, TYPE B.
- d) WATER-REDUCING ACCELERATOR: ASTM C494. TYPE E. e) WATER-REDUCING RETARDER: ASTM C494, TYPE D.
- f) WATER-REDUCING RETARDING HIGH RANGE ADMIXTURE: ASTM C494, TYPE G. a) WATER-REDUCING HIGH RANGE ADMIXTURE: ASTM C494, TYPE F. h) SET ACCELERATOR, CORROSION INHIBITING: ASTM C494, TYPE C.
- i) SUPER PLASTICIZER: ASTM C494, TYPE F. IO. ADMIXTURES SHALL CONTAIN CORROSION INHIBITORS AND BE USED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS.
- II. WELDED STEEL WIRE FABRIC: PER ASTM AI85; SIZE AND LOCATION AS INDICATED ON THE CIVIL ENGINEERING DRAWINGS. 12. DEFORMED REINFORCING BARS: ASTM A615, GRADE 60; SIZE AND LOCATION AS INDICATED ON 3219. WHEEL STOP BLOCK: PRE-CAST CONCRETE; MINIMUM 5,000 PSI AT 28 DAYS; REINFORCED WITH 2 EACH THE CIVIL ENGINEERING DRAWINGS

13. BAR AND FABRIC SUPPORTS: BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES FOR

SPACING, SUPPORTING AND FASTENING REINFORCEMENT IN PLACE. STONES, BRICK AND WOOD ARE NOT ACCEPTABLE. a) MANUFACTURED FROM STEEL, WIRE, PLASTIC OR PRECAST CONCRETE THAT IS OF GREATER COMPRESSION STRENGTH THAN THE CONCRETE.

b) WHERE LEGS OF SUPPORTS ARE IN CONTACT WITH EARTH, PROVIDE SUPPORTS WITH LEGS

THAT ARE PROTECTED BY PLASTIC (CRSI, CLASS I) OR STAINLESS STEEL (CRSI, CLASS 2). 14. STEEL WIRE: ASTM A853. 15. EXPANSION AND ISOLATION JOINT FILLER: ASPHALT SATURATED CELLULOSIC FIBER IN

COMPLIANCE WITH ASTM DI751; WITH REMOVABLE CAP FOR SEALANT PLACEMENT.

16. FORM, SITE LIGHTING BASE: ONE PIECE; SINGLE USE; MULTIPLE LAYER SPIRALLY WOUND

PAPERBOARD; INTERIOR COATED WITH DURAGLAS COATING; MOISTURE BARRIER EXTERIOR; SONOTUBE FINISH FREE FORM OR APPROVED EQUAL. 17. SEALANT: REFERENCE DIVISION OT OF THE GENERAL NOTES.

18. SEALER: REFERENCE THIS DIVISION OF THE GENERAL NOTES.

- 3206. SLUMP LIMITS: PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF a. RIGID PAYING: MINIMUM ONE TO THREE INCHES, NOT MORE THAN FOUR INCHES.
- b. CURB: AS REQUIRED TO MAINTAIN SHAPE DURING CONCRETE PLACEMENT. c. ADDING WATER TO THE MIX IN ORDER TO CORRECT SLUMP IS PROHIBITED. 3207. PROVIDE CONCRETE PUMPING IF REQUIRED FOR CONSTRUCTABILITY.

REINFORCEMENT.

- 3208. THE COST OF CONCRETE TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO COORDINATE WITNESSING AND TESTING WITH AGENCY APPROVED BY THE OWNER.. PROVIDE TEST REPORT TO ARCHITECT.
- 3209. DESIGN, CONSTRUCT, ERECT, MAINTAIN AND REMOVE FORMS FOR CAST-IN-PLACE CONCRETE WORK IN COMPLIANCE WITH ACI 347. a. CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF CORRECT SIZE, SHAPE,

ALIGNMENT, ELEVATION, AND POSITION. MAINTAIN FORMWORK CONSTRUCTION TOLERANCES.

b. COAT CONTACT SURFACES OF FORMWORK WITH FORM RELEASE AGENTS BEFORE PLACING

- 3210. UNLESS OTHERWISE SPECIFIED, INSTALL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS a. CONCRETE EXPOSED TO EARTH OR WEATHER
- 2. OTHERS: TWO INCHES MINIMUM.

FROM DIRECTION OF TRAVEL

- 3211. JOINTS IN EXTERIOR SLABS ON GRADE
- I. PROVIDE JOINTS EQUALLY SPACED IN RECTANGULAR-SHAPED AREA PATIOS AND SIDEWALKS AS SHOWN ON THE ARCHITECTURAL PLANS. WHERE CONCRETE PATIO OR SIDEWALK HAS AN IRREGULAR-SHAPED PERIMETER, PROVIDE CONTROL JOINTS AS SHOWN ON ARCHITECTURAL PLANS. PROVIDE 'DIAMOND' PATTERN OF JOINTS AROUND EXTERIOR PIERS AS SHOWN ON ARCHITECTURAL PLANS... ALL CONTRACTION JOINTS ARE TO BE TROWEL FORMED WITH DEPTH EQUAL TO 25% OF SLAB THICKNESS. PROVIDE TROWELED EDGE AT PERIMETER OF SLAB. ALL SPACES BETWEEN TROWELED EDGES AND JOINTS ARE TO BE BROOM FINISHED AT 90 DEGREES
- b. CONSTRUCTION JOINTS: LOCATE AT CONTRACTION JOINTS WHENEVER POSSIBLE, BUT NO CLOSER THAN IO FEET FROM LAST CONTRACTION JOINT IF LOCATED BETWEEN CONTRACTION JOINTS.
- WORK OR WHEN THE POUR IS SUSPENDED FOR MORE THAN 30 MINUTES. c. JOINTS IN CONCRETE CURBS: SPACED EVERY IO FEET CENTER TO CENTER ON STRAIGHT SECTIONS;
- PROVIDE DRIVE APRON AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS
- NEEDED FOR A COMPLETE INSTALLATION, AND IN COMPLIANCE WITH LOCAL JURISDICTION REQUIREMENTS. a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES.
- . <del>Accregate Subbase: Odot Item 304; Thickness as indicated.</del> 3. REINFORGEMENT: ASTM A615, GRADE 60, SIZE AND SPACING AS INDICATED.
- AS NEEDED FOR COMPLETE INSTALLATION.
- b. Material I. CONCRETE: ODOT ITEM 452; CLASS QC 2.
- a. TOLERANCE: NOT EXCEEDING 1/4 INCHES BELOW A 10 FOOT STRAIGHTEDGE.
- b. LONGITUDINAL AND TRANSVERSE SLOPES IN COMPLIANCE WITH ICC/ANSI AII7.I.
- 3215. PROVIDE REFUSE ENCLOSURE WITH APRON AND GENERATOR ENGLOSURE AS SHOWN ON THE DRAWINGS
- a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION OIAL OF THE GENERAL NOTES. b. MATERIAL, RIGID PAYING (REFERENCE THIS SPECIFICATION SECTION FOR SPECIFIC REQUIREMENTS)
- I. CONCRETE: DOT ITEM 451; CLASS QC 2; THICKNESS AS INDICATED. 2. <del>Accregate Subbase: odot Item 304; Thickness as Indicated.</del>
- 3. REINFORGEMENT: WELDED WIRE FABRIC; SIZE AS INDICATED. 5. STEEL BOLLARD: REFERENCE DIVISION 05 OF THE GENERAL NOTES.
- REFERENCE DRAWINGS FOR SPECIFIC REQUIREMENTS.
- e. VERIFY REQUIREMENT FOR SANITARY DRAIN. 3216. AT ALL EXTERIOR CONCRETE PAYING, SIDEWALKS, EQUIPMENT PADS AND CURBS, APPLY TRANSPARENT LIQUID SEALING COMPOUND FORMULATED WITH SILOCANATE. COVERAGE RATE AS
  - RECOMMENDED BY THE MANUFACTURER. a. MANUFACTURERS
  - THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION: MOUNTED TO STEEL POSTS AT THE SITE ENCLOSURE.
  - PICKETS: MINIMUM I INCHES x 6 INCHES x 0.060 INCHES WALL THICKNESS. 2. RAIL: MINIMUM I-3/4 INCHES x 4 INCHES x 0.110 INCHES WALL THICKNESS. 3. POST SLEEVES: MINIMUM 4 INCHES x 4 INCHES x 0.110 INCHES WALL THICKNESS.
  - 6. HINGES: HEAVY DUTY STAINLESS STEEL, COMPLETE POST WRAP TYPE 7. LOCKING HARDWARE
  - GENERATOR ENGLOSURE b. <del>DIAGONAL BRACING AS RECOMMENDED BY THE MANUFACTURER.</del>
- c. ALL WELDED CONSTRUCTION d. REINFORGE HINGE AND LATCH RAILS
- 3218. PROVIDE ACCESSIBLE PARKING SIGNAGE AND CONCRETE STOP WHEEL STOP BLOCKS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION.
  - FULL LENGTH OF THE POST. 2. PARKING SIGN: INTERNATIONAL SYMBOL OF ACCESSIBILITY PICTOGRAM OVER TEXT "PARKING"; STEEL, THICKNESS AND SIZE AS INDICATED ON THE DRAWINGS; BLUE BACKGROUND WITH WHITE
  - 4. PARKING SIGN: TEXT "\$250 FINE"; STEEL, SIZE AND THICKNESS AS INDICATED ON THE DRAWINGS; BLUE BACKGROUND WITH WHITE LETTERING; ENGINEER-GRADE REFLECTIVE SHEETING; PRE-PUNCHED HOLES FOR MOUNTING.
- GALVANIZED OR STAINLESS STEEL PINS AS RECOMMENDED BY MANUFACTURER. 3220. PROVIDE SEEDING OF ALL AREAS DISTURBED BY CONSTRUCTION AND AS NOTED HEREIN, WITH
- ASSOCIATION OF NURSERYMEN AND LOCAL EXTENSION OFFICE GUIDELINES APPLICABLE TO THE PROJECT AREA. b. MATERIAL

REQUIREMENTS.

AND NOT MORE THAN 0.5 PERCENT WEED SEED, 40 PERCENT KENTUCKY BLUEGRASS, 40 PERCENT CREEPING RED FESCUE, 20 PERCENT ANNUAL RYEGRASS. 4. EROSION CONTROL BLANKETS: BIODEGRADABLE STRAW ENCLOSED IN A PHOTODEGRADABLE PLASTIC MESH, STAKED AT INTERVALS RECOMMENDED BY THE MANUFACTURER.

I. TOPSOIL: REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR SPECIFIC INFORMATION AND

UNSUITABLE CONDITIONS. d. PRIOR TO APPLICATION OF FERTILIZER, LOOSEN SUBGRADE A MINIMUM FOUR INCHES DEEP, REMOVE STONES LARGER THAN ONE INCH DIAMETER, REMOVE ALL DEBRIS, STICKS, ROOTS, ETC. e. GRASS SEED: APPLY WITH SPREADER OR SEEDING MACHINE; DO NOT APPLY WHEN WINDS EXCEED

FIVE MILES PER HOUR, MINIMUM THREE POUNDS PER 1,000 SQUARE FEET AT A RATE SUFFICIENT FOR

PROPER COVERING AT THE TIME OF GERMINATION: RAKE LIGHTLY INTO TOP 1/8 INCH PORTION OF

SOIL, LIGHTLY ROLL AND WATER WITH FINE SPRAY; PLACE STRAW MULCH OVER SEED, APPROXIMATELY TWO TONS PER ACRE, BUT NO LESS THAN 1-1/2 INCH COVERING. CONTRACTOR TO WATER SEEDED AREA DAILY AS NEEDED UNTIL SITE ACHIEVES 100% COVERAGE

- 1. No. 5 BARS AND SMALLER: 1-1/2 INCHES MINIMUM.
- a. CONTRACTION JOINTS
- 2. WHERE JOINT PATTERNS ARE NOT SHOWN ON ARCHITECTURAL PLANS: 2.I. IN 4" SLABS, PROVIDE JOINTS AT MINIMUM & FEET, MAXIMUM IO FEET CENTER TO CENTER. 2.2. IN 6" SLABS, PROVIDE JOINTS AT MINIMUM 12 FEET, MAXIMUM 15 FEET CENTER TO CENTER;
- JOINT DEPTH I-I/2 INCHES. 2.3. IN 8" SLABS, PROVIDE JOINTS AT MINIMUM 16 FEET, MAXIMUM 20 FEET CENTER TO CENTER;
- CONNECT POURS WITH 12" LONG #5 DOWELS AT 3'-O" C/C FOR ENTIRE LENGTH OF CONSTRUCTION JOINT. INSTALL CONSTRUCTION JOINT WHERE WORK IS SUSPENDED AT THE END OF EACH DAYS
- EVERY 4 FEET CENTER TO CENTER ON RADIUSED SECTIONS. d. JOINTS IN CATCH BASINS AND MANHOLE APRONS: SAWCUT CONTRACTION JOINTS CORNER TO
- CORNER.
- b. MATERIAL I. GONCRETE: ODOT ITEM 452; CLASS QC 2; THICKNESS AS INDICATED.
- 3213. PROVIDE CONCRETE CURB AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES.
- 2. REINFORCEMENT, CONSTRUCTION JOINT: ASTM A615, GRADE 60; No. 4 DEFORMED REINFORCING BAR; MINIMUM 24 INCHES LONG.
- c. BROOM FINISH OPPOSITE DIRECTION OF TRAVEL WITH TOOLED EDGES AND TROWELED CONTRACTION JOINTS. CLASS B TOLERANCE d. PROVIDE WHEELCHAIR ACCESSIBLE CURB RAMP WHERE CALLED FOR.
- <del>and as noted Herein, with components as needed for a complete installation, and in</del> COMPLIANCE WITH LOCAL JURISDICTION REQUIREMENTS.
- a) FURNISH SCHEDULE 40, GALVANIZED STEEL, SLEEVES FOR BOLLARDS.
- d. <del>Fence Steel color as selected by the owner from Manufacturer's Standard.</del>
  - I. V-SEAL CONCRETE SEALERS: 102 CONCRETE SEALERS USA: PSIO2
- 3. REUSE CONCRETE SEALING SPECIALISTS: SEALGREEN. 3217. PROVIDE REINFORGED POLYVINYL CHLORIDE FENCE ENGLOSURE AND GATE ASSEMBLY AS SHOWN ON
- a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES.
- 4. FENCE ENCLOSURE POSTS: 4x4 (NOM.) PRESERVATIVE TREATED, FOR IN-GROUND CONTACT, 5. <del>DIAGONAL BRACING</del>
- 8. GATE POSTS: 8 INCHES OUTSIDE DIAMETER, SCHEDULE 40, GALVANIZED STEEL AT REFUSE ENCLOSURE AND 6 INCHES OUTSIDE DIAMETER, SCHEDULE 40, GALVANIZED STEEL AT
- e. VINYL AND PAINT COLORS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD. . MANUFACTURER: SUPERIOR PLASTIC PRODUCTS, INC., NEW HOLLAND, PA OR APPROVED EQUAL:
- I. SIGN POST: U-CHANNEL; 2 POUNDS PER FOOT; HOT-DIP GALVANIZED; MINIMUM 3 INCHES WIDE BY I-3/4 INCHES DEEP; PRE-PUNCHED MOUNTING HOLES 3/8 INCHES DIAMETER SPACED EVERY INCH
- LETTERING; ENGINEER-GRADE REFLECTIVE SHEETING; PRE-PUNCHED HOLES FOR MOUNTING. 3. PARKING SIGN: TEXT "VAN ACCESSIBLE"; STEEL, MINIMUM 0.080 INCHES THICK; 12 INCHES BY 18 INCHES; BLUE BACKGROUND WITH WHITE LETTERING; ENGINEER-GRADE REFLECTIVE SHEETING; PRE-PUNCHED HOLES FOR MOUNTING.
- NO. 4, GRADE 60 REINFORCING BAR; TAPERED TOP CORNERS WITH RADIUS EDGES; MINIMUM 6 FEET LONG, 5 INCHES TALL AND 6 INCHES WIDE; PREFORMED HOLES FOR ANCHORING; ANCHOR WITH
  - COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. a. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, INDUSTRY STANDARD, PROFESSIONAL HORTICULTURAL AND ARBORICULTURAL PRACTICES, THE AMERICAN
- 2. SEEDING FERTILIZER: COMMERCIAL GRADE; 5/10/5 3. GRASS SEED: NOT LESS THAN 95 PERCENT GERMINATION, NOT LESS THAN 85 PERCENT PURE SEED
- THROUGH TESTING, AND PRIOR TO THE START OF PLANTING OPERATIONS, VERIFY THE PH LEVEL OF THE SOILS SCHEDULED FOR SEEDING. TAKE THE NECESSARY STEPS REQUIRED TO CORRECT
- OF MIN 3" LONG GRASS. a. WARRANTY: ONE COMPLETE GROWING SEASON.

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TIDI 426 EAST MAIN STREET LANCASTER, OHIO 43130

written consent of the Architect COMMISSION

ISSUE MARK DATE

4-5-21

DRAWN BY: NJP, SML

**DIVISION 31 THROUGH DIVISION 32** DRAWING NUMBER

phone: (740) 654-4048 facsimile: (740) 654-3009 Copyright ~ 2021 All drawings are and shall be the property of VPL Architects, Inc., and may not be sed, duplicated, or altered without the

STEPHEN M. LUCHTENBERG 8546

> Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2021 **GENERAL NOTES**

- 3221. PROVIDE LANDSCAPING AS SHOWN ON THE LANDSCAPE DESIGN DRAWINGS, AND AS NOTED HEREIN; 3225. FINAL SITE CLEANING <del>WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES PLANTING BED</del> PREPARATION, RAKING, ROCK REMOVAL, LAWN SEEDING, FERTILIZERS, MULCHES, TREE WRAPPING AND STAKING, PLANTINGS, SHRUBS, TREES, PH TESTING, PRUNING, TRIMMING AND ALL OTHER ITEMS, WORK <del>and incidentals as required</del>
- a. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, INDUSTRY STANDARD, PROFESSIONAL HORTICULTURAL AND ARBORICULTURAL PRACTICES, THE AMERICAN ASSOCIATION OF NURSERYMEN AND LOCAL EXTENSION OFFICE CUIDELINES APPLICABLE TO THE PROJECT AREA.
- b. MATERIALS INORGANIC SOIL AMENDMENTS
- 2. ORGANIC SOIL AMENDMENTS
- 3. PLANTING FERTILIZER: COMMERCIAL GRADE: 12/12/12 4. SEEDING FERTILIZER: COMMERCIAL GRADE; 5/10/5
- 6. WEED CONTROL BARRIER . HERBICIDE
- 8. <del>TREE STAKES AND GUYS.</del> 9. GRASS SEED: 40 PERCENT KENTUCKY BLUEGRASS, 40 PERCENT CREEPING RED FESCUE, 20
- REFERENCE DIVISION 31 OF THE CENERAL NOTES FOR SPECIFIC REQUIREMENTS PERTAINING TO
- PLANTING BED PREPARATION d. THROUGH TESTING, AND PRIOR TO THE START OF PLANTING OPERATIONS, VERIFY THE PH LEVEL OF EACH PLANTING AREA. TAKE THE NECESSARY STEPS REQUIRED TO CORRECT UNSUITABLE
- e. <del>TREE AND SHRUB PLANTING: EXCAVATE MINIMUM THREE TIMES THE DIAMETER OF THE BALL OR</del> CONTAINER; CIRCULAR PLANTING PIT WITH SIDES SLOPING INWARD AT A 45 DEGREE ANGLE; TRIM PERIMETER OF BOTTOM LEAVING CENTER AREA RAIGED SLIGHTLY FOR SUPPORT OF THE ROOT
- BALL AND TO PROMOTE DRAINAGE AWAY FROM THE ROOT BALL. TREE STABILIZATION: PROVIDE AT TREES WITH TWO INCHES TO FIVE INCHES CALIPER; USE FOR WIND STABILIZATION FOR CALIPERS LESS THAN TWO INCHES; MINIMUM TWO STAKES FOR TREES UP 3302. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION TO 12 FEET HIGH AND TWO INCHES OR LESS CALIPER, MINIMUM THREE STAKES FOR ALL OTHERS.
- g. M<del>ulch: Minimum Three Inches Deep; Maintain Minimum Three Inches Clearance Around Tree</del> TRUNKS AND SHRUB STEMS h. GRASS SEED: MINIMUM THREE POUNDS PER 1000 SQUARE FEET AT A RATE SUFFICIENT FOR

PROPER COVERING AT THE TIME OF GERMINATION; STRAW MULCH AS REQUIRED TO PROTECT

- TREES AND SHRUBS SHALL BE FRESHLY DUG, WELL BRANGHED, DENSELY FOLIATED AND WELL
- i. <del>Plantings shall be healthy, sound, vigorous, free form disease and insects and have</del> HEALTHY, WELL DEVELOPED ROOT SYSTEMS:
- k. PLANTINGS, TREES AND SHRUBS SHALL BE NURSERY GROWN FROM STOCK THAT HAS PROVEN HARDY TO THE LOCATION OF THIS PROJECT AND SHALL HAVE BEEN GROWN UNDER SIMILAR
- CLIMATIC CONDITIONS AS THIS PROJECT. I. P<del>LANT SIZE, GRADING STANDARDS AND METHODS OF MEASUREMENT SHALL CONFORM TO THE</del> AMERICAN STANDARD OF NURSERY STOCK BY THE AMERICAN STANDARD OF NURSERYMEN. m. <del>ALL LANDSCAPING WORK SHALL BE MAINTAINED UNTIL ACCEPTANCE BY THE ARCHITECT AND THE</del>
- n. <del>Warranty: one full growing season for plantings; two full growing seasons for</del> TREES AND SHRUBS.

### 3222. CHAIN LINK FENCING

- a. INSTALL GALVANIZED AND VINYL COATED FENCING, MANUAL AND MOTORIZED GATES, ALL IN FOUNDATION SIZES AND FENCING HEIGHTS NOTED ON THE DRAWINGS, AND ALL ACCESSORIES
- REQUIRED FOR COMPLETE FENCING SYSTEM. b. SUBMIT COMPLETE LISTING OF PROPOSED FENCING MATERIALS AND SITE PLAN ILLUSTRATING FENCE POST LAYOUT WITH LINE POLES AT MAX 8' O.C. FOR ARCHITECT'S REVIEW PRIOR TO
- c. CONTRACTOR IS TO COORDINATE FENCE POST FOUNDATION LOCATIONS SO AS TO NOT DISTURB UNDERGROUND UTILITIES OR BUILDING STRUCTURAL FOUNDATIONS.
- d. PROVIDE MANUAL SWING GATES AND MOTOR OPERATED ROLLING GATE IN SIZES AND
- LOCATIONS AS SHOWN ON DRAWINGS. I. PROVIDE DROP PIN CANE BOLTS AT EACH SWINGING GATE LEAF.
- I.I. CORE DRILL HOLES IN ASPHALT OR CONCRETE SURFACE AS REQUIRED. DRILL HOLES
- COMPLETELY THROUGH SURFACE FOR DRAINAGE. e. MATERIALS - TYPICAL FOR PVC COATED AND NON-PVC COATED (UNO):
- I. CORNER POSTS -3" O.C., DQ 40 GA., GALV 2. LINE POSTS UP TO 8' HEIGHT - 2 3/8" O.D., DQ 40 GA., GALV
- 3. LINE POSTS AT 16' HEIGHT 3" O.C., DQ 40 GA., GALV
- 4. TOP, MID AND BOTTOM RAILS- I 5/8" O.D., DQ 40 GA. GALV.
- 5. FABRIC 2" DIAMOND MESH, 9 GA., O.148 DIAMETER COATED WIRE, ASTM A 392 CLASS I HOT DIP, SELF HEALING, ZINC GALVANIZING AFTER FABRIC IS WOVEN. 15 YEAR WARRANTY. 5.1. TENSILE STRENGTH PER FEDERAL SPEC RR-F-191
- 5.2. HOT ZINC GALVANIZING PER ASTM B6 5.3. AT FENCING THAT RECEIVES A CORRUGATED PIPE COVER ON THE TOP RAIL (SEE
- PLANS FOR LOCATIONS), PROVIDE KNUCKLED TOP AND BOTTOM SELVAGE. AT ALL OTHER FENCING, PROVIDE TWISTED TOP SELVAGE AND KNUCKLED BOTTOM SELVAGE.
- 6. PROVIDE GALVANIZED FITTINGS (PVC COATED AT PVC COATED FENCING) AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- 7. PVC COATING ON FENCING:
- 7.1. .025 INCH THICK
- 7.2. PVC ADHESION PER ASTM F668, CLASS 2A 7.3. COLOR TO BE GREEN, ASTM F934
- 7.4. IS YEAR WARRANTY AGAINST FAILURE DO TO RUST OR CORROSION 8. SEE DRAWINGS FOR ALL CONCRETE PIER FOUNDATION DETAILS.
- 9. MANUFACTURER: MASTER HALCO, ON GUARD, OR APPROVED EQUAL.
- 3223. CHAIN LINK FENCE MOTOR OPERATED ROLLING GATE
- a. MOTORIZED GATE OPERATOR TO BE 1/2 HP, BELT DRIVEN, CAPABLE OF OPENING AND CLOSING MAX 1000 LB GATE.
- CONTROL SWITCHES IN CONCESSIONS ROOM PER ELECT PLANS 2. MOUNT OPERATOR TO GATE. 3. SEE ELECTRICAL DWGS FOR DISCONNECT SWITCH
- INSTALL PER MFR'S WRITTEN INSTRUCTIONS.
- c. PRODUCT DOOR KING SERIES 9000, OR APPROVED EQUAL.
- 3225. PLAYING SURFACE FIELD TURF PAVERS a. PROVIDE AND INSTALL 2" THICK x 9 1/8" HEXAGONAL RUBBER PLAYING SURFACE FIELD TURF PAVERS OVER ASPHALT PAVING AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND AS
  - G.C. TO PROVIDE SITE SURVEYING AS NECESSARY TO LAY OUT BALL DIAMOND AS SHOWN. 2. INSTALL TURF IN STRICT ACCORDANCE WITH MFR'S WRITTEN INSTRUCTIONS. SNUGLY FIT EACH
  - PAVER TO ALL ADJACENT PAVERS FOR CONTINUOUS, CAVITY-FREE PLAYING SURFACE 3. CUT EDGES OF PERIMETER PAVERS AS NECESSARY TO PROVIDE CONSISTENT PERIMETER EDGE; WITH CUT EDGES SNUGLY FIT AGAINST BOTTOM RAIL OF ADJACENT FENCING
  - 4. PROVIDE MFR'S STANDARD SLOPED RAMP PAVERS AT ALL ENTRY POINTS FROM THE CONCRETE PATIO SURFACE TO THE TURF PAVER SURFACE. TIGHTLY FIT EACH RAMP PAVER TO THE CUT EDGE OF THE ADJACENT TURF PAVERS AND TO THE ADJACENT RAMP PAVERS. USING THE TURF MANUFACTURER'S SUGGESTED ADHESIVE(S), ADHERE ALL CUT EDGE FULL THICKNESS PAVERS TO THE ASPHALT BELOW, AND ADHERE ALL RAMP PAVERS TO EACH
  - OTHER, TO THE ADJACENT CUT EDGE TURF PAVERS AND TO THE CONCRETE PATIO. 5. AFTER ACCEPTANCE BY THE OWNER OF THE INSTALLED PLAYING FIELD TURF, PAINT FIELD TURF IN SHAPES AND LINES AS INDICATED ON THE DRAWINGS, COLORS AS SELECTED.
  - 5.I. CONTRACTOR TO ALSO PAINT I" WIDE x 2" x 2" CORNER 'TIC MARKS' ON THE PLAYING TURF TO INDICATE CORNERS OF THE FOLLOWING SPORTS FIELDS / COURTS. PROVIDE TEN TIC MARKS PER FIELD / COURT; EACH SPORT HAVING DIFFERENT COLORED TIC MARKS. PRIOR TO APPLICATION, THE ARCHITECT WILL PROVIDE THE 6C WITH THE LOCATIONS OF THESE FIELDS / COURT TIC MARKS WITHIN THE BALL DIAMOND:
  - 5.I.I. BASKETBALL COURT 5.I.2. FIELD HOCKEY
  - 5.1.3. TENNIS
  - 5.I.4. BOCCE BALL 5.1.5. SOCCER
  - 5.2. ACCEPTABLE PAINTS 5.2.I. SHERWIN WILLIAMS ARMORSEAL TREAD-PLEX SW6094 5.2.2. PITTSBURGH PAINTS 3-510 SERIES, URETHANE MODIFIED.
  - b. FIELD TURF PAYERS TO MEET THE FOLLOWING STANDARDS:
  - ADA COMPLIANT
  - 2. CONSUMER PRODUCT SAFETY COMMISSION COMPLIANT 3. ASTM D395-97 COMPRESSION SET TEST OF 7.65%
  - 4. ASTM C67-94 AVERAGE COMPRESSIVE STRENGTH OF 86 PSI 5. ASTM D2240-86 AVERAGE HARDNESS OF 48 AS MEASURED WITH A SHORE 'A' DUROMETER.
  - 6. ASTM D2632-88 AVERAGE VERTICAL REBOUND OF 33. 7. ASTM 1951-99 DETERMINATION OF PAVER ACCESSIBILITY
- c. PRODUCT DESCRIPTION: I. 2" x 9 I/8" HEXAGONAL UNITS MOLDED WITH CRUMBS FROM DISPOSED RUBBER TIRES
- (STYRENE BUTADIENE RUBBER) AND A LATEX-FREE, WEATHER RESISTANT POLYURETHANE POLYMER RESIN. THE UNDERSIDE OF EACH UNIT SHALL BE MOLDED SO AS TO ALLOW WATER ON THE SURFACE UNDER THE UNITS TO DRAIN IN EVERY DIRECTION. THE TOP 3/4" (MIN THICKNESS) OF EACH UNIT SHALL BE PIGMENTED WITH INTEGRAL COLOR. COLOR AS SELECTED FROM MFR'S STANDARD RANGE.
- d. PRODUCT: I. SOFSCAPE PAVERS BY SOFSCAPE CARIBE INC OR APPROVED EQUAL.

I. PROVIDE FIVE YEAR WARRANTY AGAINST ALL MANUFACTURING DEFECTS

- AT THE COMPLETION OF PAVING, FENCING, SITE LIGHTING AND SEEDING OPERATIONS, BUT NO EARLIER THAN ONE DAY PRIOR TO OWNER TURN-OVER, CLEAN THE SITE OF ALL DEBRIS AND MEDIUM PRESSURE POWER WASH PAVEMENTS AND SIDEWALKS.
- **DIVISION 33 UTILITIES**
- 3300. PROVIDE SITE UTILITIES AS INDICATED ON THE CIVIL AND ELECTRICAL ENGINEERING DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. THIS INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, DOMESTIC POTABLE WATER, SANITARY SEWER, STORM SEWER, NATURAL GAS, ELECTRICAL SERVICE, SITE LIGHTING AND CONDUITS (WITH PULL ROPES) FOR ELECTRIC, DATA AND COMMUNICATIONS SERVICES.
  - a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE TECHNICAL SPECIFICATIONS.
  - CONDUITS, FITTINGS 2. PIPE, FITTINGS
  - 3. CATCH BASIN AND GRATE
  - 4. VALVES AND VALVE BOXES b. TRENCH EXCAVATION SHALL BE IN STRICT COMPLIANCE WITH OSHA REGULATIONS.
  - c. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. d. PROVIDE CONTINUOUS DETECTABLE WARNING DEVICES (TAPE, WIRE, ETC.) OF UNDERGROUND UTILITIES DURING BACKFILL OPERATIONS; POLYETHYLENE FILM THAT IS ACID AND ALKALI
- THE PAYMENT OF ALL UTILITY TAP FEES IS THE RESPONSIBILITY OF THE CONTRACTOR.

RESISTANT, MINIMUM 6 INCHES WIDE, COLOR PER UTILITY BEING BURIED.

- a. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDING AND FACILITIES b. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- I. OSHA 29 CFR 1926.650, EXCAVATION, SCOPE, APPLICATION AND DEFINITIONS 2. OSHA 29 CFR 1926.651, EXCAVATION, SPECIFIC EXCAVATION REQUIREMENTS
- 3. OSHA 29 CFR 1926.652, EXCAVATION, REQUIREMENTS FOR PROTECTIVE SYSTEMS c. AMERICAN ASSOCIATION OF STATE HIGHWAYS AND TRANSPORTATION (AASHTO) I. AASHTO M248, STANDARD SPECIFICATION FOR READY-MIXED WHITE AND YELLOW TRAFFIC
- 2. AASHTO M320, STANDARD SPECIFICATION FOR PERFORMANCE-GRADED ASPHALT BINDER
- d. OHIO DEPARTMENT OF TRANSPORTATION (ODOT) I. ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS
- 2. ODOT SUPPLEMENT SPECIFICATION 823, LIGHT TRAFFIC ASPHALT MIX COMPOSITION REQUIREMENTS
- 3. ODOT ITEM 253, PAVEMENT REPAIR 4. ODOT ITEM 441, CONTRACTOR MIX DESIGN AND QUALITY CONTROL - GENERAL
- e. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- NEMA TC 2, STANDARD FOR ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT 2. NEMA TC 3, STANDARD FOR POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC CONDUIT AND TUBING
- 3. NEMA WC 70, POWER CABLES RATED 2000 VOLTS OR LESS FOR THE DISTRIBUTION OF
- ELECTRICAL ENERGY F. UNDERWRITERS LABORATORY (UL)
- I. UL 467, GROUNDING AND BONDING EQUIPMENT
- 2. UL 514B, CONDUIT, TUBING AND CABLE FITTINGS 3. UL 651, STANDARD SCHEDULE 40 AND 80 RIGID PVC CONDUIT AND FITTINGS
- q. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) . NFPA 70, NATIONAL ELECTRIC CODE
- h. AMERICAN CONCRETE INSTITUTE (ACI)
- I. ACI IIT, SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS 2. ACI 201, GUIDE TO DURABLE CONCRETE
- 3. ACI 212, REPORT ON CHEMICAL ADMIXTURES FOR CONCRETE
- 4. ACI 222R, PROTECTION OF METALS IN CONCRETE AGAINST CORROSION 5. ACI 224, JOINTS IN CONCRETE CONSTRUCTION
- 6. ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE
- 7. ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE 8. ACI 305R, GUIDE AND STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING
- 9. ACI 306R, GUIDE AND STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING 10. ACI 308, GUIDE FOR CURING CONCRETE
- II. ACI 308.I, SPECIFICATION FOR CURING CONCRETE 12. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- 13. ACI 34TR, GUIDE TO FORMWORK FOR CONCRETE I. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) I. CRSI, MANUAL OF STANDARD PRACTICE
- 2. CRSI, PLACING REINFORCING BARS
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- I. ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS
- 2. ASTM A615, STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR CONCRETE REINFORCEMENT
- 3. ASTM AI064, STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE
- 4. ASTM BI, STANDARD SPECIFICATION FOR HARD-DRAWN COPPER WIRE
- 5. ASTM B3, STANDARD SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE 6. ASTM B258, STANDARD SPECIFICATION FOR NOMINAL DIAMETERS AND CROSS-SECTIONAL AREAS OF AWG SIZES OF SOLID ROUND WIRES USED AS ELECTRICAL CONDUCTORS
- ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATE 8. ASTM C94, STANDARD SPECIFICATION FOR READY-MIXED CONCRETE
- 9. ASTM CI50. STANDARD SPECIFICATION FOR PORTLAND CEMENT IO. ASTM CITI, STANDARD SPECIFICATION FOR SHEET MATERIALS FOR CURING CONCRETE
- II. ASTM C309, STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE 12. ASTM C330, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES IN STRUCTURAL
- CONCRETE 13. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE
- 14. ASTM CT18, STANDARD SPECIFICATION FOR STANDARD SAND
- 17. ASTM CI582, STANDARD SPECIFICATION FOR ADMIXTURES TO INHIBIT CHLORIDE-INDUCED CORROSION OF REINFORCING STEEL IN CONCRETE 18. ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF
- HYDRAULIC CEMENT CONCRETE 19. ASTM D2301, STANDARD SPECIFICATION FOR VINYL CHLORIDE PLASTIC PRESSURE-SENSITIVE ELECTRICAL INSULATING TAPE
- 20.ASTM DI24I, STANDARD SPECIFICATION FOR MATERIALS SOIL-AGGREGATE SUBBASE, BASE AND SURFACE COURSES
- 21. ASTM DIT84, STANDARD SPECIFICATION FOR RIGID POLY VINYL CHLORIDE (PVC) COMPOUNDS AND CHLORINATED POLY VINYL CHLORIDE (CPVC) COMPOUNDS 22.ASTM D2487, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING
- 23. ASTM D2488, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE) 24.ASTM D2564, STANDARD SPECIFICATION FOR SOLVENT CEMENTS FOR POLY VINYL CHLORIDE
- (PVC) PLASTIC PIPING SYSTEMS 25, ASTM D2855, STANDARD PRACTICE FOR MAKING SOLVENT-CEMENTED JOINTS WITH POLY VINYL
- CHLORIDE (PVC) PIPE AND FITTINGS 26.ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 27. ASTM D3034, STANDARD SPECIFICATION FOR TYPE PSM POLY VINYL CHLORIDE (PVC) SEMER
- PIPE AND FITTINGS 28.ASTM D5268, STANDARD SPECIFICATION FOR TOPSOIL USED FOR LANDSCAPING PURPOSES
- 29. ASTM F512, STANDARD SPECIFICATION FOR SMOOTH-WALL POLY VINYL CHLORIDE (PVC) CONDUIT AND FITTINGS FOR UNDERGROUND INSTALLATION
- 30.ASTM F656, STANDARD SPECIFICATION FOR PRIMERS FOR USE IN SOLVENT CEMENT JOINTS POLY VINYL CHLORIDE (PVC), PLASTIC PIPE AND FITTINGS 31. ASTM F1336, STANDARD SPECIFICATION FOR POLY VINYL CHLORIDE (PVC) GASKETED SEWER
- 3303. ALL PIPING, CONDUITS AND THEIR SPECIALTIES SHALL BEAR PERMANENT MARKING OF SIZE, TYPE, APPROVED TESTING AGENCY, ETC.
- 3304. PROVIDE THE DOMESTIC WATER SERVICE AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO METER, PIPING, FITTINGS, STERILIZATION, FINAL CONNECTIONS, PRESSURE TESTING, VALVES, BACKFLOW PREVENTER, VALVE BOXES, BACKFLOW PREVENTER PIT (IF APPLICABLE) AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. COMPLY WITH THE LOCAL HEALTH DEPARTMENT REQUIREMENTS FOR MATERIALS, METHODS INSTALLATION, TESTING AND STERILIZATION.
  - a. COMPLY WITH THE STANDARDS AND REQUIREMENTS OF THE UTILITY PROVIDER SUPPLYING DOMESTIC POTABLE WATER b. WATER SERVICE PIPING MATERIALS, FITTINGS, VALVES, ETC. SHALL CONFORM TO THE REQUIREMENTS OF NSF 61 AND THE STANDARDS LISTED IN THE OHIO PLUMBING CODE (OPC)
- c. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS
- d. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR REQUIREMENTS.

SECTION 605.

- 3305. PROVIDE THE GRAVITY-FLOW BUILDING SANITARY SEWER DRAINAGE SYSTEM AS SHOWN THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, PIPING, FITTINGS, CLEAN-OUTS, PRESSURE TESTING, FINAL CONNECTIONS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE
- a. COMPLY WITH THE REQUIREMENTS OF THE UTILITY PROVIDER FOR SANITARY SEWER SYSTEMS. b. COMPLY WITH THE STANDARDS OF THE UTILITY PROVIDER AND THE LOCAL HEALTH DEPARTMENT
- OPC CHAPTER 7.
- e. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR REQUIREMENTS. VERIFY THE REQUIREMENT FOR DRAIN AT THE TRASH ENCLOSURE.
- 3306, PROVIDE THE GRAVITY FLOW, NON-PRESSURIZED STORM DRAINAGE SYSTEM AS SHOWN ON THE ARCHITECTURAL AND CIVIL ENGINEERING DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, UNDERGROUND DRAINAGE SYSTEM FOR DOWNSPOUTS, PRECAST CONCRETE STRUCTURES, GRATES, PIPING. FITTINGS, FINAL CONNECTIONS AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A
  - a. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS
  - b. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR REQUIREMENTS.
  - d. AT THE COMPLETION OF THE WORK, BUT PRIOR TO FINAL CONNECTIONS, WATER FLUSH-OUT ALL
- e. DOWNSPOUT DRAINAGE SYSTEM
  - I. MATERIALS a) POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS: SDR 35; SIZED, PLUS 20 PERCENT, TO PVC CELL CLASS 12364 PER ASTM DI784, ASTM D3034 AND ASTM F1336.
- b) RECTANGULAR TO ROUND DOWNSPOUT ADAPTER BOOT AT GRADE. 3301. PROVIDE THE UNDERGROUND NATURAL GAS SYSTEM TO THE RISER LOCATED OUTSIDE THE BUILDING <del>as shown on the drawings, and as noted Herein, with components as needed for a</del> COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, PIPING, METER, REGULATOR, VALVES AND SPECIALTIES OUTSIDE THE BUILDING FOR NATURAL GAS SERVICE.
- FOR MATERIALS, INSTALLATION, TESTING, INSPECTION AND PURGING. c. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS
- 3308. FURNISH THE UNDERGROUND ELECTRICAL SERVICE AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT
- a. COMPLY WITH THE REQUIREMENTS OF THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC), AND THE UTILITY PROVIDER.
- c. CONDUITS AND CONDUIT SPECIALTIES MATERIALS SHALL THE BEAR LABEL, STAMP, OR OTHER
- INSTRUCTIONS.

- **DIVISION 34 AND 35 NO REQUIREMENTS**
- FOR MATERIALS, METHODS INSTALLATION AND TESTING. c. SANITARY SEMER MATERIALS AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF
- d. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS
- COMPLETE SYSTEM IN COMPLIANCE WITH AGENCIES HAVING JURISDICTION.
- c. ASSEMBLE AND INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION
- LINES AND CATCH BASINS.
  - ACCOMMODATE THE VOLUME OF WATER RUN-OFF FROM ROOF STRUCTURES; COMPLY WITH
- GAS CODE FOR MATERIALS, METHODS, INSTALLATION AND TESTING. b. UNDERGROUND NATURAL GAS PIPING MATERIALS SHALL COMPLY WITH NFPA 54 OR AGA IFGG

a. CONFORM TO ALL REQUIREMENTS OF THE UTILITY PROVIDER, OPG. AND THE INTERNATIONAL FUEL

- d. REFERENCE DIVISION 31 OF GENERAL NOTES FOR REQUIREMENTS. e. PROVIDE TRACER WIRE ATTACHED TO PIPING.
- NECESSARILY LIMITED TO, THE UNDERGROUND BRANCH ELECTRICAL SERVICES TO SITE COMPONENTS, THE UNDERGROUND COMMUNICATIONS, INTERNET AND CABLE TELEVISION SERVICES.
- b. COMPLY WITH THE STANDARDS OF THE UTILITY PROVIDER FOR CONDUIT / PIPING, INCLUDING OTHER MATERIALS, METHODS, INSTALLATION AND TESTING.
- MARKINGS OF APPROVED TESTING AGENCIES. d. ASSEMBLE AND INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION

DIVISION 40 THROUGH 48 - NO REQUIREMENTS

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COMMISSION ISSUE MARK DATE PERMIT 4-5-21

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Expiration Date: December 31, 2021

STEPHEN

LUCHTENBERG

8546

**GENERAL NOTES DIVISION 32 THROUGH DIVISION 48** 

PLUM	BING LEGEND
w	WATER SERVICE PIPING
cw	COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
SAN	SANITARY PIPNG
	VENT PIPING
<u> </u>	UNION
	GATE VALVE (LINE SIZE)
X	BALL VALVE (LINE SIZE)
	CHECK VALVE (LINE SIZE)
<del></del> ⊗	VALVE BOX & SERVICE SHUT-OFF VALVE
<u> </u>	SHOCK ARRESTOR
<u> </u>	PRESSURE GAUGE
	THERMOMETER
$\bigotimes$	NOTE DESIGNATION
$\langle \overline{X} \rangle$	UNIT NUMBER DESIGNATION
◎ F.D.	FLOOR DRAIN
○ H.D.	HUB DRAIN
<b>⊘</b> C.O.	CLEANOUT (CO-1)
o <b>⊸</b> l C.O.	CLEANOUT PLUG (CO-2)
	OUTSIDE CLEANOUT (CO-3)
<del>c                                    </del>	SINGLE HOSE BIBB (INSTALL 42" A.F.F.)
G	WALL HYDRANT (INSTALL 18" ABOVE FIN. GRADE)
P.C.	PLUMBING CONTRACTOR
H.C.	HEAT AND VENT CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR

### PLUMBING GENERAL NOTES

- A. COORDINATE ALL WORK WITH OTHER TRADES.
- B. FIELD VERIFY ALL EXISTING SERVICES AND INVERTS. PLUMBING CONTRACTOR SHALL CONNECT TO EXISTING BUILDING SERVICES.
- C. SANITARY AND WATER SERVICES BY PLUMBING CONTRACTOR.
- D. SCHEDULE ALL WORK WITH G.C.
- E. COORDINATE PIPING WHICH IS LOCATED BELOW FLOOR SLAB WITH BUILDING FOUNDATIONS.
- F. COORDINATE PIPING WHICH IS LOCATED ABOVE FLOOR SLAB WITH MASONRY OR FRAMING.
- G. SANITARY PIPING LOCATED BELOW FLOOR SLAB. PITCH 4" PIPE 1/8" PER FT. PITCH 3" PIPE 1/4" PER FT.
- H. CW/HW PIPING LOCATED BELOW FLOOR SLAB OR IN WALL/CHASE SHALL BE TYPE "K" SOFT COPPER, CPVC, OR PEX TUBING.
- I. ALL PIPING SYSTEMS SHALL BE COORDINATED WITH FIXTURING PLAN, ARCHITECTURAL PLANS AND STRUCTURAL PLANS. COORDINATE PIPING ROUTES WITH FIXTURES, DUCTWORK, LIGHT FIXTURES, ETC.
- . CW/HW PIPING SYSTEM SHALL BE INSTALLED TO PROVIDE COMPLETE DRAIN DOWN FOR WINTERIZATION.
- K. ALL PIPING FOR PLUMBING FIXTURE ROUGH-INS TO BE LOCATED IN WALLS AND CHASE UNLESS OTHERWISE NOTED.
- L. CHROME ESCUTCHEON PLATE SHALL BE PROVIDED WHERE SANITARY, CW AND HW PIPE ROUGH—IN PENETRATES WALL IN FINISHED AREA.
- M. ALL WALL AND SLAB PENETRATIONS OF MASONRY CONSTRUCTION TO BE SLEEVED. SLEEVES SHALL BE SCHEDULE #40 BLACK STEEL, MACHINE CUT AND SHALL BE INSTALLED FLUSH WITH FINISHED SURFACES.
- N. PROVIDE CW AND HW SHUT-OFF VALVES, ON BRANCH PIPES, AT EACH
- GROUP OF FIXTURES.

  O. PROVIDE SHOCK ARRESTORS AT EACH GROUP OF FIXTURES. SIZE PER
- MANUFACTURER'S REQUIREMENTS.

  P. ALL PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.
- Q. EXPOSED PIPING SHALL BE HELD TIGHT TO BUILDING STRUCTURE.
- GENERAL CONTRACTOR TO PAINT PIPE TO MATCH ADJACENT SURFACES.

  R. PIPING LAYOUT IS ONLY SCHEMATIC. EXACT LOCATION OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND OTHER TRADES. PIPING SHALL BE KEPT PERPENDICULAR AND PARALLEL
- S. FIELD VERIFY EXACT LOCATION OF ALL NEW FIXTURES, EQUIPMENT AND DRAINS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH—IN. REFER TO ARCHITECTURAL DRAWINGS.

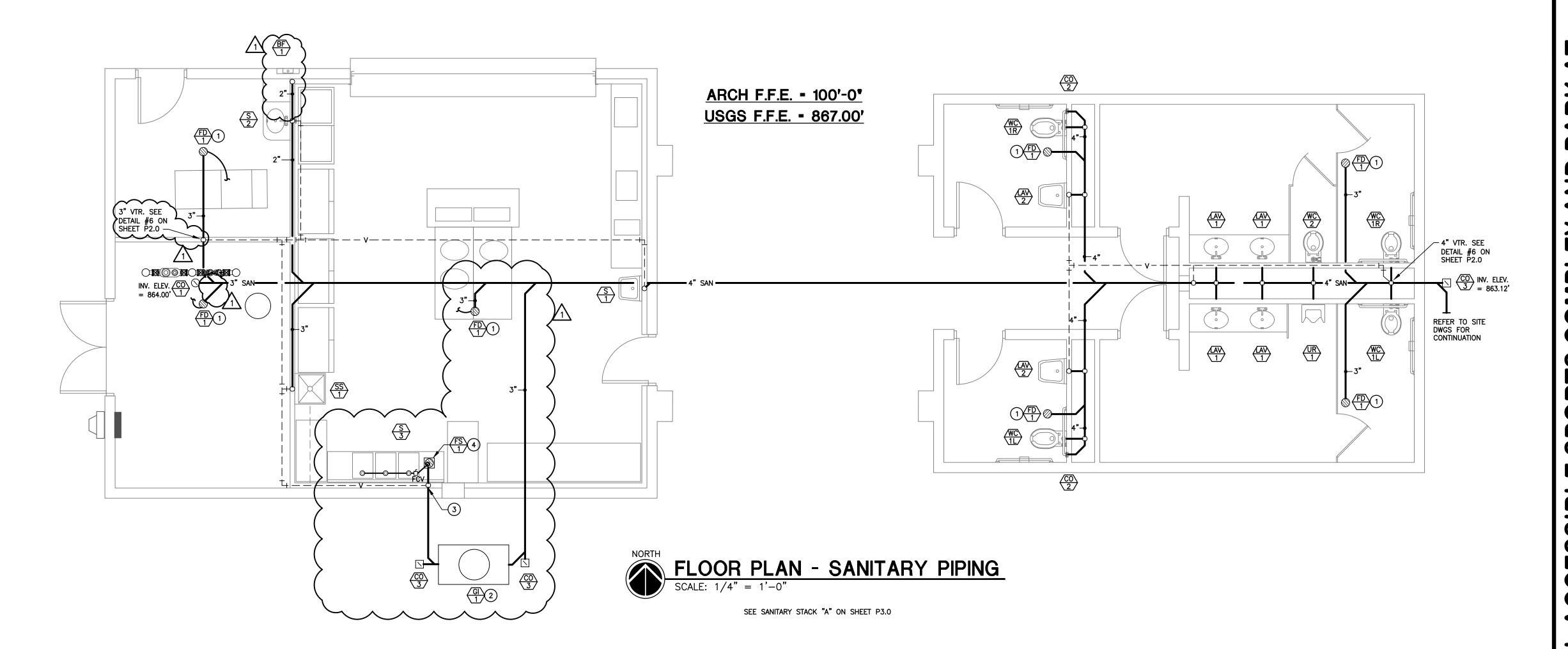
TO WALLS AND FLOORS.

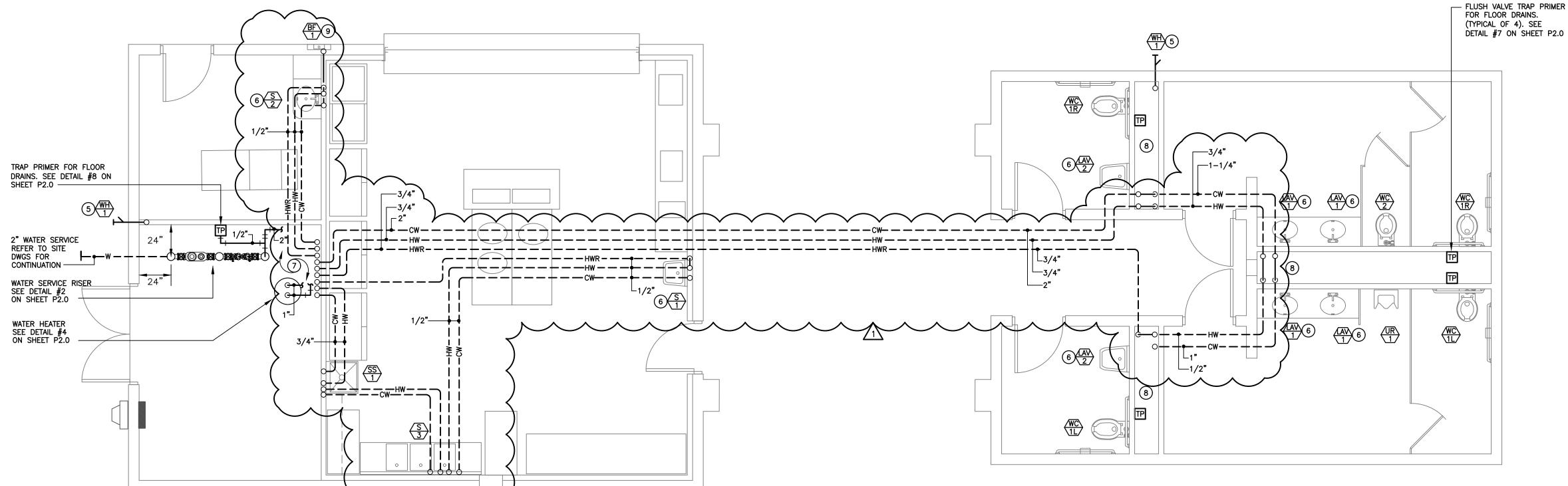
- T. PLUMBING SYSTEM TO BE INSTALLED PER OHIO PLUMBING CODES AND LOCAL BUILDING DEPT. REQUIREMENTS.
- U. PLUMBING CONTRACTOR SHALL OBTAIN PERMITS AND PAY ALL FEES ASSOCIATED WITH PLUMBING WORK SHOWN.
- REFER TO DIVISION 1 AND 15 IN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

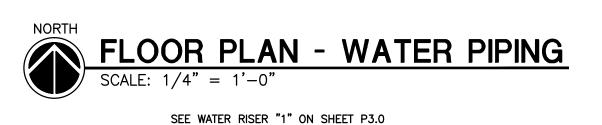
### PLUMBING PLAN CODED NOTES

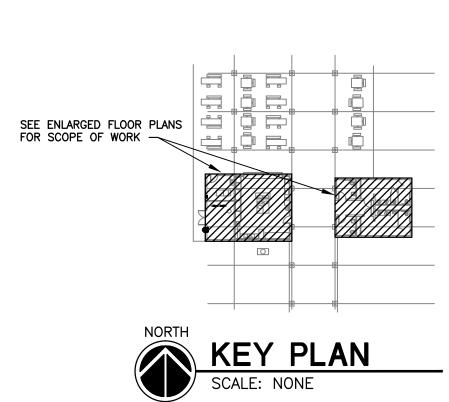
- 1. PROVIDE FLOOR DRAIN WITH TRAP PRIMER CONNECTION. EXTEND 1/2" CW PIPING FROM FLOOR DRAIN TO TRAP PRIMER. REFER TO DETAILS #7 & #8 ON SHEET P2.0 FOR ADDITIONAL
- 2. EXTERIOR, CONCRETE GREASE INTERCEPTOR.
  REFER TO DETAIL #2 ON SHEET P3.0 FOR SIZE, MODEL NUMBER, AND
- OTHER ADDITIONAL INFORMATION.

  3. COORDINATE ROUTING OF VENT PIPING UP IN WALL WITH SIDEWALL 1
  EXHAUST FAN. (ELBOW VENT PIPING AS REQUIRED TO AVOID FAN).
- INDIRECT WASTE PIPING FROM 3 COMPARTMENT SINK INTO FLOOR SINK. TERMINATE PIPING WITH PROPER AIR GAP AND PROVIDE FLOW CONTROL VALVE IN DISCHARGE PIPING.
- 5. 3/4" CW PIPE TO WALL HYDRANT. PROVIDE WITH 3/4" BALL VALVE. INSTALL WH-1 AT 24" A.F.F. COORDINATE WITH G.C. TO PROVIDE ACCESS PANEL AT CHASE.
- PROVIDE AND INSTALL A ASSE 1070 APPROVED THERMOSTATIC MIXING VALVE INSTALLED UNDER LAVATORY OR SINK IN AN ACCESSIBLE LOCATION. SET OUTPUT TEMPERATURE TO 110°F MAX.
- 7. FOR ADDITIONAL INFORMATION REFER TO DETAIL #9 ON SHEET P2.0 FOR PIPING INSTALLATION/DISTRIBUTION PIPING DETAIL.
- 8. REFER TO WATER RISER "1" ON SHEET P3.0 FOR ROUTING OF ABOVE SLAB PIPING WITHIN PLUMBING CHASE. COORDINATE WITH G.C. TO PROVIDE ACCESS PANELS FOR ALL VALVES AND ACCESSORIES INSTALLED WITHIN PLUMBING CHASE.
- 9. PROVIDE AND INSTALL A ASSE 1032 APPROVED POINT OF USE BACKFLOW PREVENTER EQUAL TO WATTS #SD-2. INDIRECT RELIEF PORT PIPING TO NEAREST FLOOR DRAIN OR APPROVED WASTE RECEPTOR.









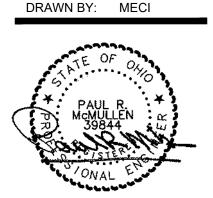
# ALL ACCESSIBLE SPORTS COMPLEX AND PARK / FOREST ROSE SCHOOL 795 COLLEGE AVE. LANCASTER, OHIO 43130

MCHULLEN E

MECHANICAL AN

MECHANICA

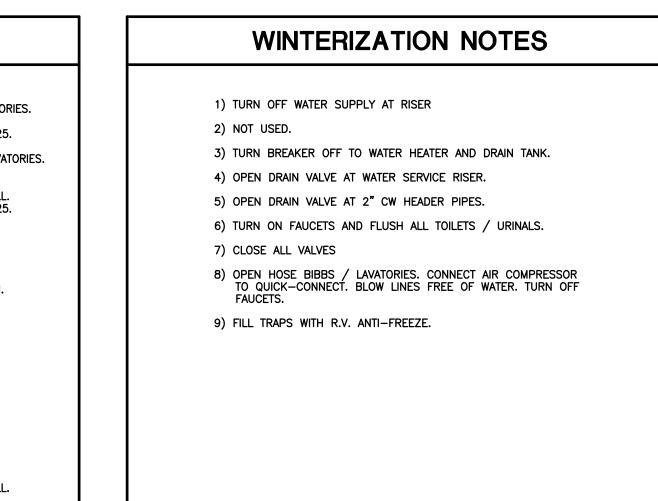


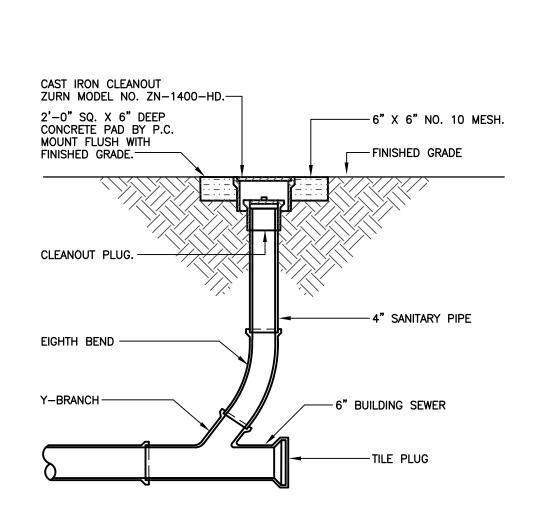




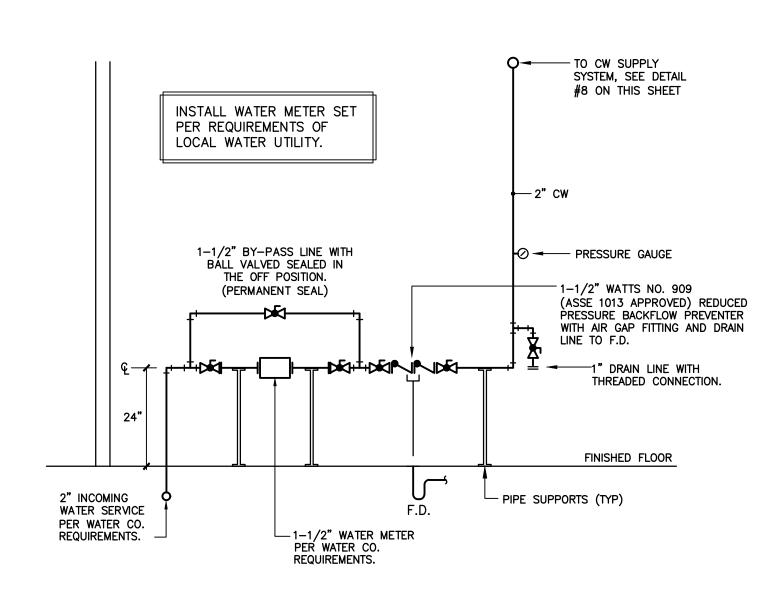
	PLUMBING FIXTURE AND DRAIN SCHEDULE													
1 FLOOR 2 WALL	MOUNTED 3 SEMI-RE MOUNTED 4 RECESSE		(5 (6		ITERTOP RON	7 GALVANIZED STEEL 9 E 8 STAINLESS STEEL 10 C		CASTIN	IG	11         NICKALOY         13         WHI           12         BRONZE         14         TAN	_	$\tilde{\mathcal{L}}$	FIBERGLASS PLASTIC	19 MOLDED TERRAZZO 20 MOLDED STONE
ITEM	DESCRIPTION	WASTE	PIP VENT	ING HOT	COLD	MANUFACTURE-MODEL	MTL	CL	мтс	FIXTURE SPECIFICATIONS  FAUCET SET	SUPPLY PIPES & STOPS	"P" TRAP	STRAINER	- ACCESSORIES
WC-1L	WATER CLOSET	4"	2"	HO1	1-1/2"	AMERICAN STANDARD — AFWALL #2859.128	8	(-)	2	-	- SUPPLY PIPES & STUPS	INT.	- STRAINER	NOTE: 1A
WC-1R	WATER CLOSET	4"	2"	-	1-1/2"	AMERICAN STANDARD - AFWALL #2859.128	$\overline{}$	Θ	2	-	-	INT.	-	NOTE: 1B
WC-2	WATER CLOSET	4"	2"	_	1-1/2"	AMERICAN STANDARD - AFWALL #2859.128	(80)	Θ	2	-	-	INT.	1	NOTE: 2
UR-1	URINAL	2"	1-1/2"	ı	1"	AMERICAN STANDARD - ALLBROOK #6550.510	(8)	Θ	2	-	ı	INT.	ı	NOTE: 3
LAV-1	LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD - AQUALYN #0476.028	(8)	Θ	(5)	ZURN NO. Z-6915-MV-CP4	McGUIRE 2165	McGUIRE 8872	GRID	NOTE: 4
LAV-2	LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD -LUCERNE #0356.421	∞	Θ	2	ZURN NO. Z-6915-MV-CP4	McGUIRE 2165	McGUIRE 8872	GRID	NOTE: 5
S-1	CONCESSION AREA SINK	1-1/4"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD -LUCERNE #0356.421	∞	Θ	2	ZURN NO. Z-6915-MV-CP4	McGUIRE 2165	McGUIRE 8872	GRID	NOTE: 11
S-2	MEDICAL ROOM SINK	1-1/4"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD -LUCERNE #0356.421	(8)	Θ	2	ZURN NO. Z-6915-MV-CP4	McGUIRE 2165	McGUIRE 8872	GRID	NOTE: 11
S-3	THREE COMP SINK	1-1/2"	1-1/2"	3/4"	3/4"	ADVANCE TABCO - #93-3-54-18RL	8	Θ	2	ASSURE #190FPRSFA12K	McGUIRE 2165		GRID	
BF-1	BOTTLE FILLER	1-1/4"	1-1/4"	-	1/2"	MURDOCK # M-OBR4-FRA1	8	Θ	4	-	McGUIRE 2165	McGUIRE 8872	GRID	NOTE: 6
SS-1	SERVICE SINK	3"	1-1/2"	1/2"	1/2"	FIAT MSB-2424	19	Θ	1	DELTA 28T9	McGUIRE 2165	McGUIRE 8872	GRID	NOTE: 12
WH-1	WALL HYDRANT	-	-	-	3/4"	WOODFORD NO. 14	9	<u></u>	2	-	-	-	-	MOUNT AT 24" A.F.F.
FD-1	FLOOR DRAIN	3"	_		_	ZURN NO. ZN-415-6B-P	6	Θ	1	-	-	3" STD.	NICKALOY	NOTE: 7
FS-1	FLOOR SINK	3"	-	-	-	ZURN NO. ZN-1910-2	6	Θ	1	-	-	3" STD.	NICKALOY	
CO-1	CLEANOUT	4"	_	_	-	ZURN NO. ZN-1400-2	6	Θ	1	-	-	-	1	NOTE: 8
CO-2	CLEANOUT	4"	_	_	_	ZURN NO. Z-1446	6	Θ	2	-	-	-	1	NOTE: 9
CO-3	CLEANOUT	4"	-	_	_	ZURN NO. 1400-HD	6	Θ	1	-	_	_	-	NOTE: 10

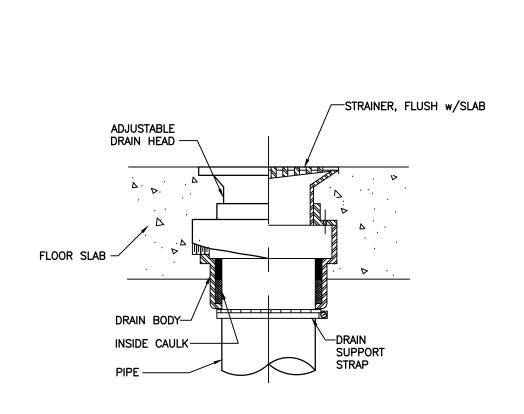
	PLUMBING FIX	TURE N	IOTES
NOTE 1A:	HANDICAPPED (A.D.A.) WALL MTD. FLUSH VALVE TOILET. LOCATE FLUSH LEVER ON LEFT SIDE OF TOILET. MOUNT RIM AT NOMINAL 17-1/2" A.F.F. PROVIDE THE FOLLOWING ACCESSORIES:	NOTE 4:	HANDICAPPED (A.D.A.) COUNTERTOP LAVATORIES. PROVIDE THE FOLLOWING ACCESSORIES: INSULATION KIT; PRO-WRAP NO. PW-2125.
	CHAIR CARRIER; ZURN NO. Z=1201.  TOILET SEAT; BEMIS NO. 1955CT 1  FLUSH VALVE; ZURN NO. ZER-6200-XL-OB-VP-YK MODIFY FLUSH VALVE FOR A.D.A. REQUIREMENTS.	NOTE 5:	HANDICAPPED (A.D.A.) WALL MOUNTED LAVATORIES MOUNT RIM AT NOMINAL 34" A.F.F. PROVIDE THE FOLLOWING ACCESSORIES: WALL BRACKETS: SECURE TO BLOCK WALL. INSULATION KIT; PRO-WRAP NO. PW-2125.
NOTE 1B:	HANDICAPPED (A.D.A.) WALL MTD. FLUSH VALVE TOILET. LOCATE FLUSH LEVER ON RIGHT SIDE OF TOILET. MOUNT RIM AT NOMINAL 17-1/2" A.F.F. PROVIDE THE FOLLOWING ACCESSORIES:	NOTE 6:	BOTTLED WATER FILLER MOUNT BF-1 AT NOMINAL 36" A.F.F.
	CHAIR CARRIER; ZURN NO. Z-1201.1 TOILET SEAT; BEMIS NO. 1955CT 1 FLUSH VALVE; ZURN NO. ZER-6200-XL-OB-VP-YK MODIFY FLUSH VALVE FOR A.D.A. REQUIREMENTS.	NOTE 7:	TOILET ROOM FLOOR DRAIN. PROVIDE WITH TRAP PRIMER CONNECTION. SLOPE FLOOR TOWARD FLOOR DRAIN. REFER TO ARCHITECTURAL PLANS.
NOTE 2:	STANDARD HEIGHT WALL MTD. FLUSH VALVE TOILET.  MOUNT RIM AT NOMINAL 15" A.F.F.  PROVIDE THE FOLLOWING ACCESSORIES:  CHAIR CARRIER; ZURN NO. Z-120(1.)	NOTE 8:	FLOOR CLEANOUT. MOUNT FLUSH WITH SLAB.
	TOILET SEAT; BEMIS NO. 1955CT 71 FLUSH VALVE; ZURN NO. ZER-6200-XL-OB-VP-YK	NOTE 9:	VERTICAL CLEANOUT. MOUNT C.O. PLUG AT 18" A.F.F.
NOTE 3:	HANDICAPPED (A.D.A.) WALL MTD. FLUSH VALVE URINAL. MOUNT RIM AT NOMINAL 17" A.F.F.	NOTE 10:	OUTSIDE CLEANOUT. MOUNT IN CONCRETE PAD. SEE DETAIL.
	PROVIDE THE FOLLOWING ACCESSORIES: CHAIR CARRIER; ZURN NO. Z-1221. FLUSH VALVE; ZURN NO. ZER-6203-XL-VP-YK MODIFY FLUSH VALVE FOR A.D.A. REQUIREMENTS. LOCATE FLUSH LEVER AT 44" A.F.F.	NOTE 11:	WALL MOUNTED SINK. MOUNT RIM AT NOMINAL 34" A.F.F. PROVIDE THE FOLLOWING ACCESSORIES: WALL BRACKETS: SECURE TO BLOCK WALL.
		NOTE 12:	PROVIDE WITH MOP HANGER & HOSE BRACKET.





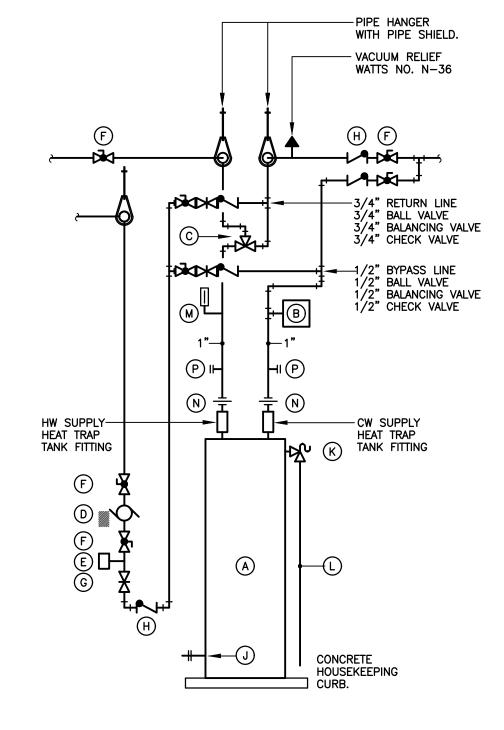
OUTSIDE CLEANOUT DETAIL



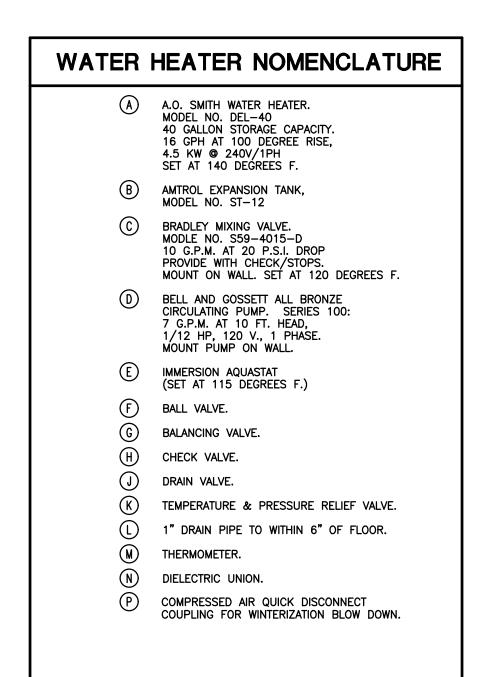


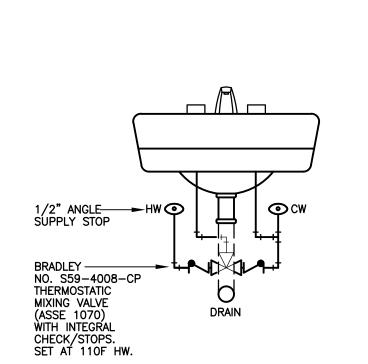
FLOOR DRAIN DETAIL

P2.0 NTS



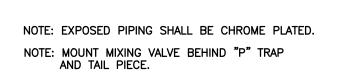
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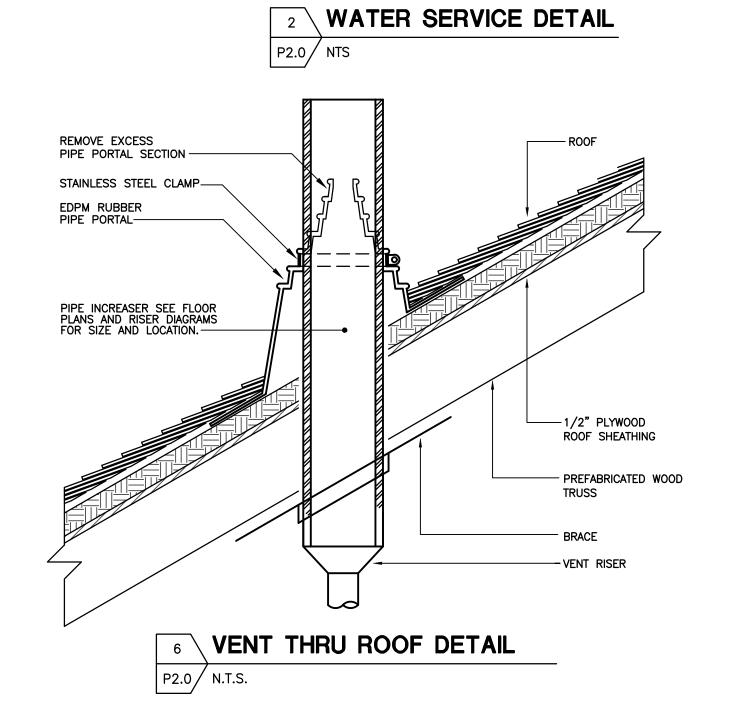


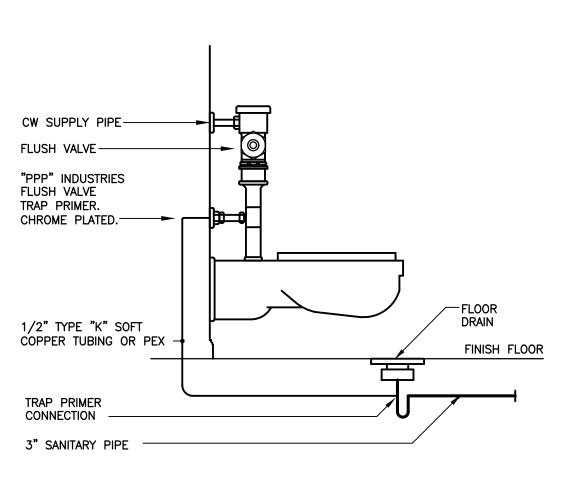
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FINISH FLOOR

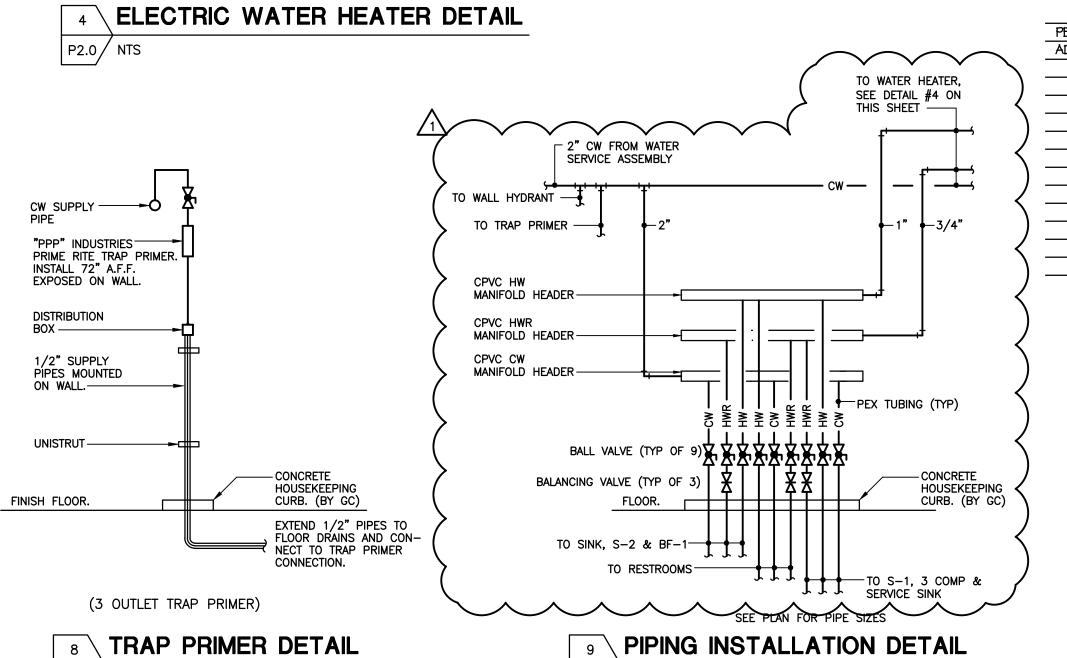




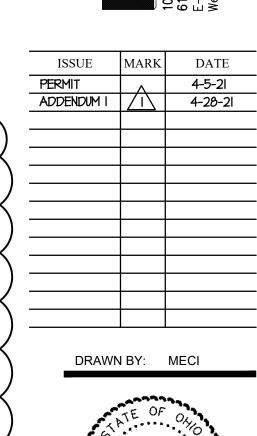








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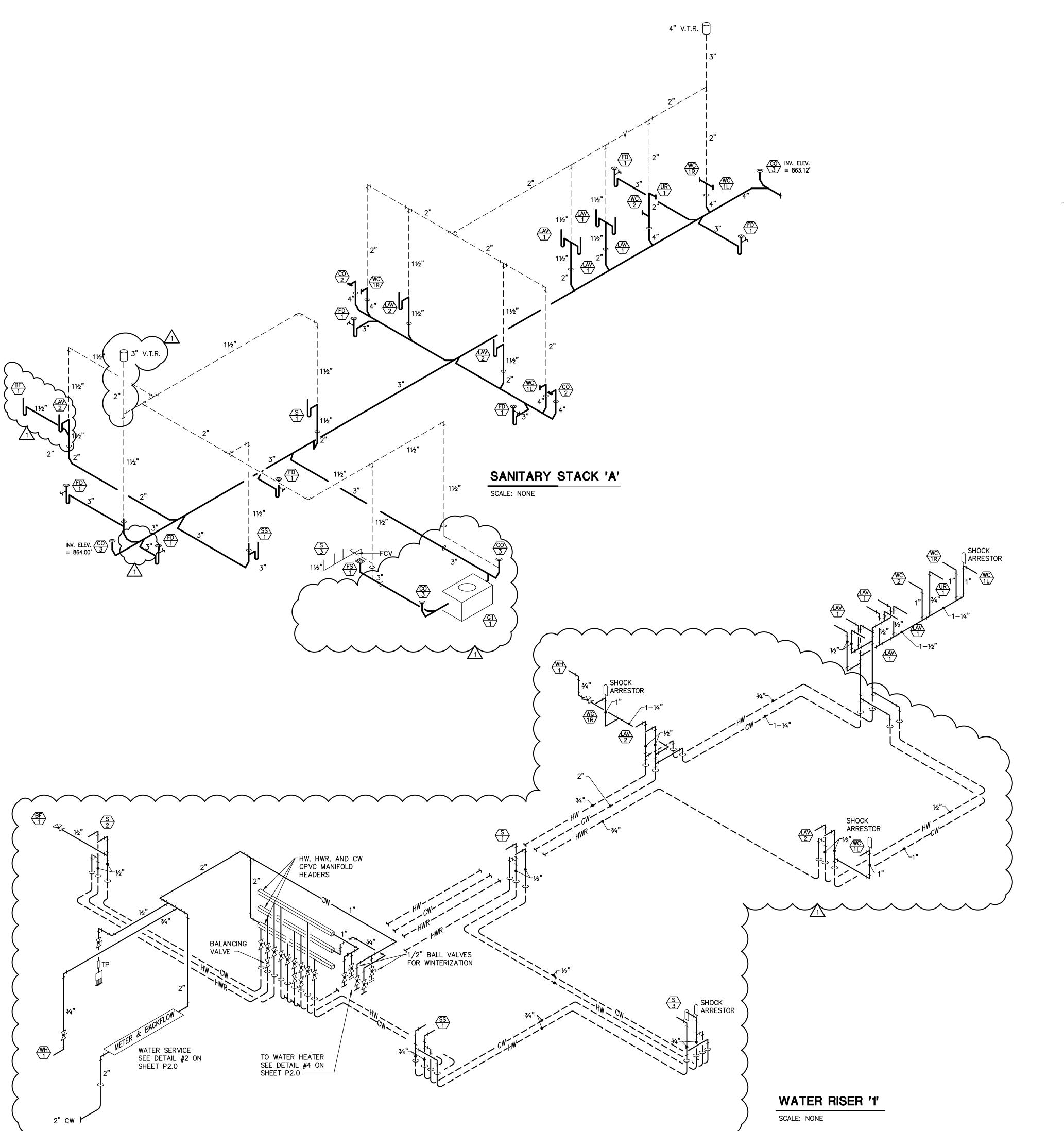
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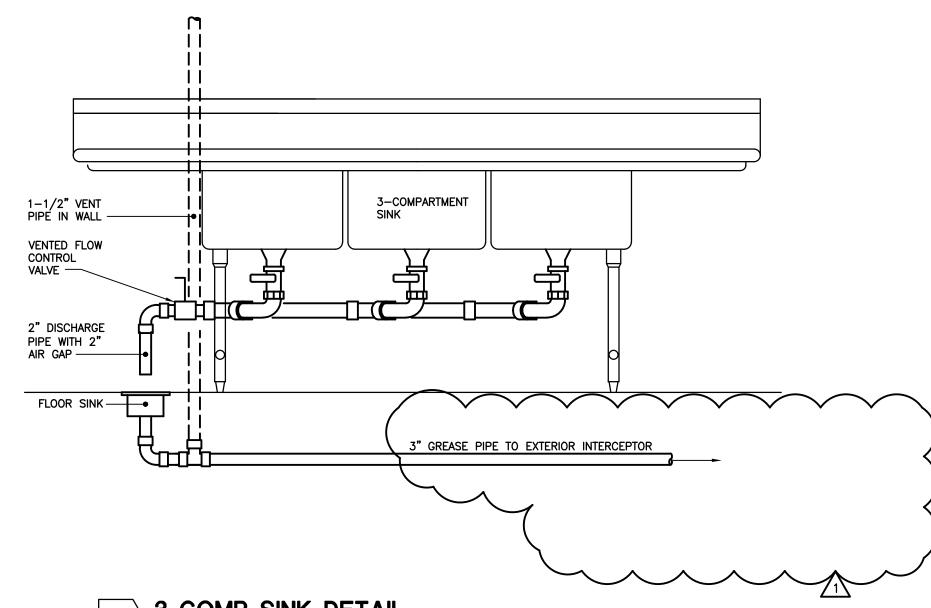
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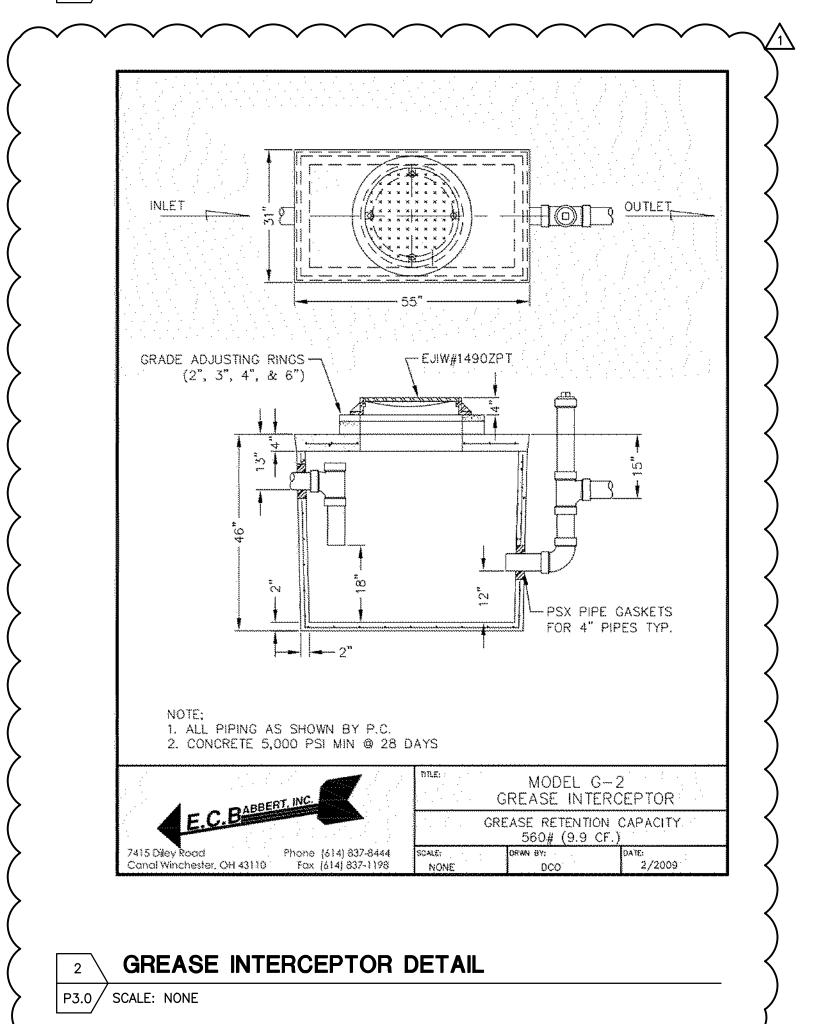
PLUMBING DETAILS DRAWING NUMBER P 2 0





1 \ 3 COMP SINK DETAIL

P3.0 | SCALE: NONE



ISSUE MARK DATE

PERMIT 4-5-2I

ADDENDUM I 1 4-28-2I

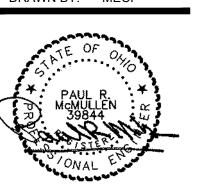
**COMPLEX AND PARK AT** 

SPORTS

ACCESSIBLE

43130

DRAWN BY: MECI



PLUMBING STACK/RISER DRAWING NUMBER P3.0

### FIRE PROTECTION/PLUMBING SPECIFICATIONS

### GENERAL SPECIFICATIONS

- A. Refer to Instructions to Bidders, General Conditions, Supplementary Conditions, and the Sections of Division 1: General Requirements for specific requirements, responsibilities and methods relating to the mechanical work.
- B. Furnish all materials, labor, tools, transportation, incidentals and appurtenances to complete in every detail and leave in working order all items of work called for herein or shown on accompanying drawings. Include any minor items of work necessary to provide complete and fully operative systems whether specifically shown or not.
- C. Codes and Standards: Comply with all Local and State building codes, Life Safety Code, National Fire Protection Association (NFPA), applicable utility company requirements and applicable Federal requirements.
- D. Permits, fees, inspection and tests: Obtain and pay for all required permits, fees, inspections and tests. File drawings necessary to obtain permits, schedule necessary inspections and tests. Submit Certificates of Inspection and approval upon completion of the work.
- E. Material and equipment installed under this Contract shall be new, un-deteriorated, and of a quality not less than the minimum specified. All equipment shall be certified, listed and labeled by UL. Work must be performed by Licensed Contractors as required by Local and State Codes.
- F. Drawings are schematic and show approximate locations and extend of work. Exact locations and extents must be coordinate with other contractors and verified in the field. Coordination of the of the final fabrication drawings and final coordination of the installation in the field is the Contractor's responsibility. It is not intended that drawings indicate all necessary offsets, and it shall be the work of this Contractors to make the installation in such a manner as to conform to structure, avoid obstructions, preserve headroom and keep openings and passageways clear. Significant deviations from Drawings must be approved by the Architect. The Architect reserves the right to make minor changes in location which do not require additional labor, material or contract time up to the time of roughing—in without additional cost.
- G. If a conflict occurs between the Drawinas and Specifications, the Contractor shall immediately call it to the attention of the Architect, who will determine which interpretation shall take precedence.
- H. Guarantee all work executed under this Contract to be free from defective workmanship and/or materials. Should any defects develop within a period of one (1) year after final acceptance has been made, correct them and repair any damage that resulted from same at no additional
- I. Submit six (6) copies of shop drawings, product data and samples as required under Division 1, and as listed in these specifications and noted
- J. Record Documents: Maintain a record set of prints showing exact location of and depth of bury for all below grade piping. Location notation shall be from foundation wall, center line of column, etc. Depth notation shall be from final finished floor elevation. Record addendum and change order items and deviations made from bid documents. Drawings shall be clean and undamaged, and shall not be used for any purpose other than recording deviations from working drawings and exact locations of concealed work. Maintain drawings at the job site and current for weekly inspection. Upon completion of work, deliver these drawings to Architect.
- K. Certificates: Submit certificates of inspection and sterilization.
- L. Operation and maintenance manuals: Submit two (2) bound copies of operation and maintenance manuals, 8 1/2" X 11" in three rina hard back binders. Submit separate manuals for each trade. Format as follows:
- a. Title page: Title of Project, Address, Date of Submittal, Name and Address of Contractor, Name of Architect, Name of Engineer. b. Second page: Index of manual contents. c. A tabbed section for each specification section with a list of all equipment furnished under that section together with suppliers' names
- and addresses and a copy of each approved shop drawing. Also, provide the following in each section as applicable: Description of systems
- ) Maintenance and lubrication instructions. 4) Servicing instructions. 5) Manufacturer's information and parts lists, including sources of
- 6) Equipment warranties. 7) Control diagrams. 8) Wiring diagrams.

2) Operating instructions.

- 9) Routine and 24 hour emergency information:
- a) Name, address and telephone number of servicing agency. b) Include names of personnel to be contacted for service
- M. Personnel Instruction: After placing systems in operation, thoroughly instruct designated Owner's personnel on operation and maintenance of all equipment and systems. Provide a minimum of (8) hours total instruction: location of equipment and explanation of function, reference to operating instruction manuals for record and clarity, coordination of written and verbal instructions so that each is understood by personnel, explanation of control system, including panel, specify maintenance performed by Owner.
- N. Comply with applicable Section of Division 1 for product delivery, storage
- O. Locate existing utilities prior to beginning work. Reroute or replace adequate means of protection during work operations. Repair existing utilities damaged during work operations to the satisfaction of Utility Owner and at Contractor's expense. Should uncharted or incorrectly charted piping or other utilities be encountered during work operations. utility companies in maintaining active services and facilities in operation.
- layouts of the equipment of the Design Base Manufacturers. Design coordination of equipment with the building and with other Trades has been made for these specific models and manufacturers of equipment. Whenever the Contractor furnishes equipment or material other than the Design Base Manufacturer specified, he is responsible for the cost and coordination of all modifications required not only for his work, but also for the work of all other Trades affected.
- specifications may be submitted to the Architect and Engineer for approval in accordance with Division 1 and subsequent inclusion into the days before bid date. Contractor may submit substitutes of his choice. without prior approval, on the "Substitution Sheet" included in the Bid Schedule. Such substitutes will not form basis of award and may be
- R. Items may be referred to as singular or plural on the drawings and in the specifications. Contractor is responsible for determining quantity of each item required.
- T. Do all excavating and backfilling required for execution of this work. Dig
- 1. No pipe shall be laid in water. Furnish pumping equipment, power, temporary connections, etc., and pump to remove ground or casual
- 2. All piping shall be laid on firm undisturbed subgrade. Should elevation with compacted shot sand.
- 3. Fill immediately around pipes and to an elevation of 1'-0" above the top of pipes with shot sand, lightly vibrated, unless noted otherwise on the drawings. Encase piping in concrete if noted on the drawings.
- 4. Fill remaining trench with pit run gravel.

- . Patch all concrete and/or paved areas cut by excavating and refinish to match adiacent surfaces
- 7. Determine the locations of all existing underground utilities and protect same from damage. Damage to any utility shall be promptly replaced or repaired to the full satisfaction of Utility Company. All costs for repair of damage to such services shall be paid by Contractor causing the damage.
- 8. Remove surplus earth from premises or dispose of it on premises as
- Avoid cutting of concrete, masonry and other new work by use of sleeves and inserts. Inform the General Contractor of the locations of all sleeves and inserts required and deliver sleeves and inserts to the General Contractor for installation. Perform cutting and patching when required for installation of new work in existing construction. Cut holes through concrete, brick, tiles, etc., when necessary by rotary core drilling. Methods and procedures shall be acceptable to the Architect. Patching shall match adjacent materials and shall be accomplished only by tradesman skilled in the respective craft required. Materials and eauipment used in the patching work shall comply with requirements of those Section of the Specifications relating to material to be used in new construction. Cutting of reinforced concrete suspended floor system and precast structural concrete prohibited unless approved by Structural Engineer. Cutting and drilling, when approved in advance, shall be work of the General Contractor.
- 7. Finish painting of piping and equipment installed under this Contract is included under Division 9 except as noted. Spot prime factory finished equipment which has rusted or been damaged with zinc chromate primer. Repaint entire item matching original color. Division 15 exposed support steel and bare ferrous metal shall be cleaned, rust removed, primed, and painted in accordance with applicable section of Division 9 Specifications. Upon completion of work, all material, fixtures and equipment furnished in this Contract shall be thoroughly cleaned of dirt, stickers, grease, rust, oil and other foreign matter. Prepare for finish painting, where painting is specified. Clean insulation coverings, size if necessary, and provide ready for finish painting. Clean and prime ferrous metals which are not provided with rust inhibitive, finish with zinc chromate primer and provide ready for finish painting. Clean piping and equipment. Remove dirt, grease, dust and oil; prime where necessary with zinc chromate primer
- 2. Clean copper piping in exposed areas with emery cloth and solvent.
- 3. Clean all gauges, thermometers, traps, strainers and fittings. W. Protect equipment and materials during construction from damage from shields and drop cloths. Repair or replace as directed any materials
- damaged during construction operations. Protect floors from soiling and damage caused by chips and cutting oil. Cover all site stored motors, bearings, fans, pumps, etc. Protect from soiling and water and weather damage. All materials or equipment stored outside shall be elevated and protectively covered. Materials and equipment sensitive to weather or construction conditions shall be stored inside. Where necessary sensitive equipment shall be stored in a heated area. Damaged equipment or materials must immediately be repaired or replaced by this Contractor. to the satisfaction of the Architect and at no additional cost to the Owner.
- shall provide complete coverage for the entire system. Minimum chlorine levels, as required by the State, shall be maintained for twenty-four (24) hours. Required levels shall be checked at all outlets. All piping and fixture outlets shall be tagged "DANGER — NOT FOR HUMAN" CONSUMPTION" prior to and during sterilization. Tags shall remain until the entire system has been thoroughly flushed and certified by an independent testing agency licensed in the State. Furnish all taps and fittings required for sterilization. Notify Architect seventy-two (72) hours prior to sterilization.
- '. Provide Architect with Certificate of Sterilization for forwarding to Owner. Perform tests in connection with this work in the presence of the Architect. Furnish all tools, equipment and connections necessary for testing. Notify the Architect at least seventy—two (72) hours in advance of any test. Failure to notify the Architect shall require the test to be performed a second time. Test piping systems and make tight before any work is concealed, covered or painted. Repair leaks which develop under test in piping by replacement of the pipe, the fitting, or both. Caulking will not be permitted. Material or workmanship found defective in any way, shall be replaced at this Contractor's expense and again tested until approved by the Architect. Piping shall be tested according to the

Water

and handling procedures and requirements.

- existing utilities where necessary to permit installation of work. Provide notify the Architect immediately for procedure directions. Cooperate with
- P. The Drawings and Specifications are based on the requirements and
- Q. Equal components by manufacturers not listed but meeting the bidding documents. Submission must be received no later than 7 working considered only after selection of lowest bidder furnishing "Base Design" as
- S. Comply with applicable Section of Division 1 for specific requirements, responsibilities and methods for temporary facilities and controls.
- excavations to exact grade and depth. Provide adequate shoring or sheet piling to prevent caving or endangering workers, work of others, or existing
- excavation be extended to below required elevation, backfill to proper

- 6. Protect all trenches with suitable barricades and bridges. Adequately protect trenches with signs or flags during the day and with lights at

- and provide ready for finish painting.
- 1. Clean galvanized piping and ductwork in exposed areas with diluted
- water, dirt, welding and cutting, spatters, paint droppings, etc. by use of
- X. All new potable water lines shall be sterilized with chlorine. Sterilization

followii Line	ng schedule: Test Pressure Medium	Minimum	Test Time Minimum	Notes
Sanitary, S Vent	Storm	Per Lo	cal Codes	

125 lbs.

6 Hrs.

No Drop

Z. Electrical Contractor to provide all conduit and wiring for devices as indicated on Electrical Drawings and in Specifications. Additional wiring required for equipment furnished under this Division to be responsibility of this Contractor. All wiring to be installed in metal conduit and to comply with latest edition of National Electric Code, NFPA 70, and with the Electrical Division of these Specifications, Division 16. Furnish to the Electrical Contractor approved wiring diagrams required for equipment furnished in this Contract. This Contractor will be responsible for the successful operation of systems. This Contractor shall reimburse the Electrical Contractor for any changes, caused by installation of other than base equipment, in wiring and devices required to provide proper

connections to equipment furnished. Wiring changes to be submitted to

the Architect for review, prior to installation.

### SLEEVES

- A. This Contractor shall furnish sleeves for his work to the General Contractor, who installs where directed by this Contractor. Furnish sleeves for all round pipe openings through new masonry construction and all fire—rated walls and floors. Furnish galvanized sheet metal and/or plastic sleeves for all piping passing through wood stud/gypsum board walls and floors/ceilings. Do not install sleeves through concrete joists, beam columns. or other structural members except where specifically indicated or approved by the Architect and Structural Engineer.
- B. In exterior masonry walls below grade: "Linkseal" casting seal with EPDM elastomeric elements system as manufactured by Thunderline Corporation. Install per manufacturer's instructions through core drilled hole or galvanized steel sleeve opening. In masonry and/or fire rated wall and floor openings: Schedule 40 steel pipe, <u>machine cut.</u> In wood framed wall and floor openings: Galvanized sheet metal and/or plastic.
- C. Furnish sleeves sized to provide an annular space of 1" between the passing pipe or pipe insulation. Use 1/2" annular space for pipes less Sleeves through walls and roofs shall be cut flush with each surface, except where clamping flanges are used. Sleeves through floors above grade shall be cut flush with underside of floor and shall extend 1' above the top side of the floor. In rated firewalls, fire partitions, smoke stops and floors, fill annular space around pipe with fire stopping materials as specified in Section 15135. In sleeves through exterior wall, pack annular space with insulating material, seal and make waterproof.

### FIRESTOPPING

- A. Furnish and install firestopping for all mechanical penetrations through ceilings, and through fire rates assemblies. Assemblies include, but not limited to, fire rated walls, floors, floor/ceiling and roof assemblies. Provide firestopping materials that are currently classified with UL as 'Fill, Void, or Cavity Materials", and "Through Penetration Firestop System." Provide firestopping materials that have been tested in accordance with ASTM E 814 and UL 1479. All firestopping materials shall be labeled with △STM F 814 number.
- B. Furnish manufacturers literature detailing installation instructions for each type of fire barrier penetrated. Firestopping materials by Dow Corning, 3M, Hilti or Metacaulk are acceptable.
- All penetrations shall be cleared of debris or dirt before sealing. Install all firestopping materials in accordance with manufacturer's instructions. All work shall be accessible until inspection and approval by applicable code authority.

### Manufacturer's representative shall instruct Contractor in the proper installation of fire stopping materials. Manufacturer's representative shall

### inspect to verify and confirm that firestopping has been installed in accordance with manufacturer's and U.L. requirements.

PIPE HANGERS AND ATTACHMENTS

- . Furnish and install pipe hangers and attachments for all piping and piping system components. Furnish and install supplementary channels, plates, etc., where required between building structural members. Provide dielectric protection between dissimilar metals, such as copper to steel. Provide blocking and supports at pipe rough—ins to fixtures and
- 3. All supports and parts shall conform to the latest requirements of the ASA Code for Pressure Piping B31.1 and MSS Standard Practice SP-69. Supports and parts shall have a stress safety factor of 5. Hanger and attachments which are used in fire protection systems shall be UL or FM listed for the usage.
- Products are based on Grinnell Figure numbers unless otherwise noted. Optional manufacturers: Modern Pipe Supports, PHD, M—CO or Uni—Strut. D. Supports for suspended, horizontal piping:

### 2-1/2" and <u>Smaller</u> <u>Larger</u> Fig. CT-99 Copper, uninsulated Fig. CT-65 Copper, insulated Fig. 260 w/shield Fig. 260 w/shield Steel, uninsulated Steel, insulated Fig. 260 w/shield Fig. 260 w/shield

- E. Supports for suspended horizontal piping (trapeze):
- Pipe Clamps: Uni-strut Series P2000 pipe clamp. Steel pipe shall have galvanized clamp, copper pipe shall have copper coated steel strap and hardware. If pipe is insulated, pipe clamp shall be installed over top of insulation. Provide protective insulation pipe shields. Pipe to be installed on top of Uni-strut. Do not suspend pipe. 2. Channel: Uni-strut P1000 channels.

<u>Attachment</u>

### Supports for vertical piping:

### Fig. CT-121 - riser clamp Copper, floor support Fig. 261 - riser clamp Steel, floor support

- G. Supports for wet areas or exterior
- 1. Use nonferrous, galvanized steel, plated steel or plastic coated steel supports and hangers in kitchens, locker rooms, shower rooms, and in

### Supports for pipe rough—ins:

- Pipe brackets: Holdrite pipe brackets, copper plated, secured to wall and/or chase framing. If galvanized brackets are used or piping is installed in metal stud walls, plastic isolation inserts shall be installed.
- Insulation protection shields:
- Half—round galvanized metal shields with radius formed to fit the insulation and 12" long. Use 18" long shields for all pipes greater
- C. Do not hang pipe from other pipe. In chase spaces, provide additional pipe stands and framing for attachment of pipe brackets and piping. Use correct size hangers. Increase hanger size to allow for increased diameter of line caused by pipe covering. Double nut, ping or spot weld all hanger support nuts in areas subject to vibration.
- L. Support horizontal piping according to the following schedule:

Pipe <u>Size</u>	<u>Steel</u>	Copper	Rod <u>Diameter</u>
3/4" and smaller	7'	5'	3/8"
1 <b>"</b>	8'	6'	3/8" 3/8"
1-1/2", 2"	10'	8'	3/8"
1-1/2", 2" 2-1/2", 3" 4"	11'	9'	3/8"
4"	12'	10'	1/2"
6" and larger	12'	12'	3/4"

- Horizontal DWV Plastic Piping: At branch connections, at each change of direction and 4-foot maximum intervals. 2. Vertical DWV Piping: At branch connections, at each change of direction, at each floor, mid-story and provide additional supports as necessary to maintain piping alignment at the base.
- 3. Cast Iron Piping: Horizontal at intervals not in excess of the standard lengths of pipe. 4. Cast Iron Piping: Vertical — 20 foot maximum intervals, base and at
- M. Install wall brackets where required. Provide pipe quides and anchors as required to properly control pope movement. Method to suit job conditions. Support piping at pumps and equipment from floor, structure or walls, so that piping weight is not supported by pumps or by
- etc., to prevent excessive stress or distortion to piping or connected N. Install half—round galvanized sheet metal insulation shields on all insulated piping at hangers.

Note: Provide additional hangers at couplings elbows, valves, equipment,

### INSTALLATION OF PIPING A. Install piping as specified in this Section:

- 1. Provide unions or flanges at each final connection and at each piece of equipment. Piping to be arranged and unions and flanges located to permit easy removal of parts and equipment for inspection and cleaning. Welded connections to equipment are prohibited.
- Make connections to equipment as detailed on the Drawings and per the manufacturer's installation instructions.
- 3. Where connection size is smaller than piping, make reduction at final connection only (do not reduce size of pipe drop).
- 4. Provide valves and specialties as required, to complete installation of each piece of equipment, for proper operation.
- B. Install piping with due consideration to other trades. C. Unions in Copper Pipe: Bronze 150 lb. ground joint, solder end (do not
- D. Flanges: Up through 2-1/2 inches: Cast iron screwed, 125# or higher as required. 3 inches and larger: Steel welding neck, 150# or higher as

use wrought copper unions). Unions in Steel Pipe: Black malleable iron,

. Screwed Piping: Use NPT tapered threads.

bronze ground ball joint.

- Grooved couplings to be installed on 2" 24" roll or cut arroved standard weight Schedule 40 pipe in accordance with the coupling manufacturer's installation instructions.
- G. Flexible couplings shall be installed with the bolt pads metal to metal: rigid (slant bolt pad) couplings shall be installed within the bolt pads metal to metal with equal offset. Installing Contractor shall verify that bolt pad gaps do not exist.
- . Install all piping parallel or perpendicular to building walls and floors. Offset lines around columns, beams and other obstructions as required. Install piping to provide clearance for personnel passage, headroom, operation of doors or windows, equipment, lighting outlets, or with Owner's apparatus and equipment. Coordinate pipe runs and elevations with other Contractors before installation. Where interferences develop in field, pipes may need to be offset or rerouted, at no additional cost to Owner, as required to resolve interferences.
- Securely support all piping from structure with approved hangers, rods,
- Install valves at service connections to equipment and branch lines from main lines. All valves and unions to be installed so as to be accessible through ceiling or wall access panel.

- Install malleable or cast iron escutcheons on piping passing through outside walls or through walls, floors, and ceilings of unfinished areas. Install brass, chromium plated, solid and/or split-type escutcheons on piping passing through finished walls, floors, or ceiling.
- Install unions or flanges to permit removal of parts and equipment for inspection or servicing without disconnecting any part except unions or flanges. Install dielectric unions or flanges between dissimilar metals, such as copper to steel
- M. Welded joints to be fabricated and stamped by welders qualified and certified as required by enforcing bodies. Remove weld scale from joints as work proceeds and at completion.
- N. Solder and brazing work shall comply with (ANSI B31.1).
- Threaded connections shall conform to ANSI Standard B2.1. Joints shall be made with TFE tape, applied to male threads only. Option: Use Permatex pipe dope.
- Install valves and piping specialties where indicated on drawings. Install valves with hand wheel at or above centerline of pipe. Install drain valves at low points to provide complete drainage of systems. Install thermometer and gauges so that they may be read from floor level.
- Install piping to permit free expansion or contraction without damage to building, equipment, or piping. Install pipe loops or anchors where indicated or required to control expansion and contraction of piping. Install branch connections to mains using a minimum of two (2) 90 degree elbows. Bullhead connections in any piping service are <u>not acceptable</u>.

### 15190 MECHANICAL IDENTIFICATION

- A. Provide pipe markers for all exposed piping in equipment rooms, accessible chases, and piping mains above accessible ceilings for maintenance operations. Provide valve tags for all valves and 2 valve charts. Provide equipment identification for all major items of mechanical equipment.
- Pipe markers, valve tags Brady, Seton, or Brimar Industries are acceptable. 3/4" thru 5-7/8" outside diameter: Setmark opti-code roll form markers. 6" and larger: Setmark ultra—mark roll form markers.
- Valve tags: 19 gauge brass, 1-1/2" diameter with 1/4" black-filled letters over 1/2" black-filled numbers. Tags shall be fastened to valves with MSC-8 meter seals. Valve charts shall be furnished in duplicate and
- D. Identification nameplates Style 2060, 1/16" thick satin—surfaced Setonply

include valve identification number, location, and purpose

- nameplates with 3/16" high white letters on black background. Provide flow direction and pipe service markers on all piping, at each valve, wall, branch, riser and at 20 foot intervals. Markers shall be readable from floor. Letters shall be minimum 1" high.
- branches. Provide typewritten directory indicating location, service and purpose of each valve in each building. Mount directory under glass in mechanical rooms. Identification shall be the same as that shown on Contract Drawings, i.e.,

Provide tags securely fastened to all valves and cocks on main lines and

F-1, AHU-1, BC-1, CU-1, etc. Letter height shall be 2-1/2" and shall

### 15241 MECHANICAL SOUND AND VIBRATION CONTROL

be readable from standing position on the floor.

- A. Furnish and install vibration and noise isolation for pipes ducts, and equipment as herein specified. All vibration isolation materials specified herein shall be provided by a single manufacturer to assure single source responsibility for the proper performance of materials used. Vibration isolation materials are based on Peabody Noise Control. Optional manufacturers: Mason.
- B. Concrete inertia bases shall be constructed of concrete cast into a prefabricated inertia base frame assembly and supported by spring isolators to maintain 1" clearance under base. Frame members shall be welded to form a structurally integral assembly, complete with primer-painted steel perimeter members, welded and tied reinforcing rods, recessed isolator brackets and equipment anchoring bolts. Where inertia bases are used to support pumps, the bases shall be large enough to support piping elbows.
- greater than 0.8 times the rated vertical stiffness, and shall be designed to provide 50% overload capacity. Spring isolators are based on Kinetics type FDS springs. Spring isolators, suspended equipment and equipment shall be combination spring and fiberglass hangers, incorporating precompressed molded fiberglass noise and vibration isolation pads, coated with a moisture impervious elastomeric membrane in series with springs, all encased in welded steel brackets. Springs shall be as specified in 2.03A above. Isolators shall be designed for 50% overload capacity, and shall

accommodate rod misalianment over a 30 degree arc. Brackets shall be

designed to carry 500% overload without failure. Spring isolators are

C. Spring isolators, floor mounted shall be free—standing, unhoused, laterally

stable steel springs incorporating leveling bolts and 1/4 in. thick neoprene

based on Kinetics type SFH springs. Install vibration and noise isolation products in accordance with manufacturer's installation instructions.

### MECHANICAL INSULATION

- A. Furnish all labor, equipment, materials, and accessories necessary for the installation of all mechanical insulation. Insulate the following plumbing
- 1. Hot water piping. 2. Hot water return piping.
- 3. Cold water piping. B. Where new piping or ductwork connects to existing piping or ductwork, new insulation systems shall match existing, (unless noted otherwise).
- Report any discrepancies to Architect. All insulation shall have composite (insulation, jacket, and adhesive) fire and smoke hazard ratings as tested under procedure ASTM E-84, NFPA
- 255, or UL 723, and not exceed: 1. Flame spread: 25.

sealed as noted above.

- 2. Smoke developed: 50. D. Pipe insulation shall meet or exceed the requirements of OBC, Mechanical
- Water piping in building below floor slab shall be insulated with Armstrong AP or equal elastomatic thermal insulation. Insulation shall be 1/2" thick. All joints shall be permanently sealed with Armstrong 510 adhesive or equal. Fittings shall be covered with miter-cut pieces of pipe insulation
- Water piping and sanitary piping in building above floor slab shall be insulated with one piece fiberglass sectional insulation (K=0.23 at 75 degrees F.) with factory applied white reinforced kraft/foil vapor barrier jacket. Longitudinal jacket laps and butt joints shall be self-sealing using 3" wide lap strips. Insulation jacket and adhesive shall have a minimum fire/smoke rating development of 25/50 in accordance with ASTM-E-84.
- NFPA 225 and U.L. 723. Insulation shall be one of the following: 1. Johns Manville "Micro-Lok". 2. Owens/Corning "Fiberglass 25 ASJ/SSL-11".
- 3. Certainteed "Fiberglass 500 degree Snap-On". Insulation thickness for pipe sizes shall be as follows:
- 1. Fittings shall be insulated with pre-molded fiberglass inserts with molded PVC jacket stapled and taped. 2. Pipe insulation exposed in finished areas subject to water damage or moisture shall be covered with Zeston 2000 PVC 20 mil jacketing

secured with adhesive. These areas include kitchen, in which copper

Handicapped accessible lavatory "P" trap and angle supply pipes and stops shall be insulated with trap wrap protective by McGuire. This shall apply to all lavatories which have open space below lavatory and/or countertop for wheelchair access. Abrasion resistant exterior cover shall be smooth and have 1/8" wall minimum wall thickness. Fasteners shall be concealed. Equal manufacturers by Brocar, Skal + Gard or Truebro.

water piping is exposed behind kitchen equipment.

- H. Pipe insulation exposed in finished areas shall be covered with Zeston 2000 PVC 20 mill jacketing secured with adhesive. These areas include toilet rooms, kitchen greas and greas of extreme moisture.
- Install all insulation, including adhesives, mastics, and coatings in strict accordance with manufacturer's installation instructions. All pipe insulation shall run continuous thru vertical and horizontal pipe hangers. All pipe insulation shall be continuous thru wall and ceiling openings and sleeves. All surface finishes are to be extended to protect all surfaces, ends, and raw edges of insulation. Insulate fittings with fiberglass wrap and cover with premolded PVC covers taped to adjacent insulation. Do not insulate heating water valves and unions. Cut back, level and seal all terminations. Furnish 1/2 round adjustized sheet metal insulation shields with radius formed to fit insulation, 12" long on all insulated piping at hangers. Use 18" long shields for all pipes greater than 4 inches.

### PLUMBING SHOP DRAWINGS

A. Submit six (6) copies of shop drawings for review of the following equipment. Submittals shall include, but not limited to the following:

> ) Insulation 3) Floor Drains 4) Cleanouts 5) Balancing Valve 6) Pressure Reducing Valve 7) Mixing Valves 8) Valves-Gate, Ball, Check, Plug 9) Supporting Members 10) Wall and Floor Plate: 11) Shock Arrestors 12) Thermometers

> > 13) Gauges

14) Aquastats

15) Wall Hydrants

16) Plumbing Fixtures

- B. Plumbing Contractor shall submit a complete shop drawing to the General Contractor showing all sleeves and floor penetrations for Structural Engineer's review and comments. General Contractor shall combine plumbing. HVAC, and electrical drawings onto one sheet. No reinforcing is to be cut or interrupted.
- C. Check, sign and approve all shop drawings. Drawings not signed and
- approved by the Contractor will be returned D. Submit shop drawings for all items of equipment, piping, and insulation for review before construction. Prepare required drawings at sufficient scale to clearly show details of construction, physical dimensions and related work of others. Review of shop drawings shall not relieve the Contractor of responsibility for accuracy of shop drawings or of full

### 15410 DOMESTIC WATER DISTRIBUTION SYSTEM

requirements of the Contract drawings.

- A. Furnish and install domestic water service as shown on drawings.
- B. Furnish and install a complete water piping system for the building as shown on the drawings, including water service riser, isolation valves, individual shut-off valves at fixtures and equipment, and as required for a complete installation.
- C. Provide rough—in and final connections to equipment furnished by Owner or General Contractor. Provide all required backflow preventors and/or vacuum breakers as required
- D. Piping and Pipe Insulation refer to Section 15420.
- E. Piping Specialties refer to Section 15430.
- Thermostatic Mixing Valves shall be Symmons with capacity noted on drawings. Mixing valve shall equal valves manufactured by Leonard. Lawler, Powers, or Symmons.
- G. Provide isolation valves on HW and CW supply pipes to each group of fixtures. Valves to be located where shown on drawings. If located above an inaccessible ceiling, provide steel access panel as specified.
- H. Provide shock arrestors on HW and CW supply pipes to each group of fixtures. Size and location to be per manufacturer's requirements.

### A. Furnish and install a complete soil waste piping system for the buildings as shown on drawings, including branch drains, stacks, traps, floor drains, cleanouts as required for a complete installation. Connect to existing

B. Furnish and install a complete system of vents for the sanitary system, including branch vents, vent stack, extension through roof and roof

building sanitary system.

15411 SOIL DRAINAGE AND VENT SYSTEM

C. Soil Waste Pipe — refer to Section 15420. D. Vent Pipe - refer to Section 15420.

equipment and Owner furnished equipment.

- E. Piping Specialties Refer to Section 15430. F. Cleanouts shall be based on Zurn as scheduled on drawings. Provide cleanouts of 4" size for pipes 4" and larger, and full size for pipes
- smaller than 4". Equal cleanouts as manufactured by Wade, Watts, J.R. Smith, Jonespec, or Josam. G. Floor drains and hub drains shall be based on Zurn as scheduled on
- drawings. Equal drains as manufactured by Wade, Watts, J. R. Smith, Jonespec, or Josam. H. Collect waste from all plumbing fixtures, drains and equipment and extend as shown on drawings. Make connections to all fixtures, drains,
- Install a cleanout at base of each soil stack and install others as shown on drawings or required by Code. Install in floor or wall, and terminate with ferrule and cleanout plug. Provide access panels of size to give adequate space for cleanouts. Encase outside cleanouts in concrete.

Tops of all floor cleanouts shall be flush with finished floor (this includes

tiled areas). Provide carpet markers where installed in carpeted areas.

Provide flashing clamp device and flash all drains not directly on grade

Trap each fixture with an approved trap, as near fixture as possible or built integral therewith.

K. Vent fixtures as shown on drawings. Collect vents and connect to

- with a 4 lb. sheet lead flashing, extending a minimum of 18" in all directions beyond clamping ring. M. Pitch soil and waste piping as follows no less than 1/8 inch per foot, for pipes 2 inches and smaller, pitch at 1/4 inch per foot. Pitch grease
- interceptor waste piping at 1/4 inch peer foot. N. Minimum soil waste pipe size is 2 inches for underground waste piping.

SEE NEXT PAGE FOR CONTINUATION.

existing vent piping system.

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PLUMBING DRAWING NUMBER

### PLUMBING SPECIFICATIONS cont.

- A. Provide all piping and fittings for soil waste, vent, hot and cold water, as shown on drawings.
- 1. All hot water piping.
- 1. 2" and larger: Service weight (SV) hub and spigot cast iron soil pipe and fittings (ASTM A74) and (CISPI 301). Pipe to be joined by
- fittings (ASTM A88) and (CISPI 301). Pipe to be joined by 4-band no-hub couplings, constructed of type 304 (heavy duty) stainless steel, incorporating a neoprene gasket (ASTM C-564). Couplings shall be as manufactured by Clamp—All, Mage—Connect (double screw),
  Mission or Huskey—4000.
- 3. 2" and smaller: Copper drainage tube (DWV) (ASTM B306) with
- F. Soil waste piping 5'-0" beyond building:
- three (3) or more than twelve (12) feet use cast iron soil pipe or encase above pipe in 8" of concrete.
- G. Pipe and fittings shall be by same manufacturer.
- 1. Schedule #40 (PVC) poly vinyl chloride drain waste and vent pipe and fittings (ASTM D-2665) and (ASTM D-1785). Pipe to be joined by (ASTM D-2564) and (ASTM D-2665).
- Soil waste piping 5'-0" beyond building:
- sewer pipe and fittings (ASTM D-3034) and (ASTM D-1785).
- J. Pipe and fittings shall be by same manufacturer.
- 1. Type "K" soft drawn copper tubing (ASTM-B42) with wrought copper
- M. Water Supply Piping:
- 1. As required by local water utility.
- P. Piping shall run parallel with building lines and other piping.
- chases shall be insulated with fiberglass insulation.
- Coordinate all cuttings with General Contractor.
- S. Coordinate all below slab piping with footings. Verify depth of piping and depth of footings prior to installation of each. Pipe shall not undercut
- Grease interceptor waste piping inside building to be sloped at 1/4" per

### 15430 PIPING SPECIALTIES

- A. Furnish and install all unions, nipples, valves, supporting members, and all other specialties specified herein or noted on drawings and as required to provide complete and operating piping system.
- 1. Same weight and material as pipe with which they are used.

- 3. Dielectric fittings shall be equal to clear flow waterway, Style 47, meeting the requirements of ASTM F-492-77 with an electro-zinc plated casing with chemically inert, NSF/FDA listed dielectric thermoplastic lining.

### D. VALVES

- 1. As manufactured by Nibco-Scott. Equal manufacturers by Apollo, Crane, Grinnell, Homestead, Jenkins, Keystone, Milwaukee, Powell, Stockham or Watts. All valves to be by same manufacturer. 3" and larger valves shall be flanged.
- (b) Globe valve bronze globe valve with renewable dics, integral seat, screw—in bonnet, 200 lb. W.O.G., equal to Nibco Type T—211 or
- (c) Angle valve bronze angle valve with renewable dics, integral seat, screw—in bonnet, 200 lb. W.O.G., equal to Nibco Type T—311
- (d) Ball valves bron Type T-580 or S-580. Ball valves — bronze two piece, 400 lb. W.O.G. equal to Nibco
- (e) Drain Valves with full sized drain line extended to nearest floor drain and with 2" air gap.

- PIPE AND FITTINGS
- B. Insulate the following piping.
- 2. All hot water return piping.
- 3. All cold water piping.
- C. Refer to Section 15250 for insulation.
- D. Soil waste, and vent piping inside building below slab, and to a point 5'-0" outside building:
  - elastomeric rubber gaskets (ASTM C-564) and installed using gasket lubricant. Provide concrete thrust blocks at all below grade turns and off sets for all 6" and larger soil waste and storm piping.
- E. Soil waste and vent piping inside building above slab:
- 1. 3" and larger: Service weight (SV) no-hub cast iron soil pipe and
- 2. 2" and smaller: Service weight (SV) no—hub cast iron soil pipe and fittings (ASTM A88) and (CISPI 301). Pipe to be joined by no-hub couplings constructed of Type 301 stainless steel incorporating a neoprene gasket (ASTM C-564) and (CISPI 310). Couplings shall be as manufactured by Tyler, Charlotte, Mission or Huskey.
- wrought copper drainage fittings (ASTM B16.29).
- 1. First quality, double strength, glazed vitrified tile sewer pipe with factory-made, double-ball plastic joints (ASTM C700) and (ASTM
- 2. Under roadways and parking areas or areas where cover is less than
- H. Soil waste, and vent piping inside building and to a point 5'-0" outside
  - solvent cement per the manufacturer's requirements and installed per
- 1. SDR-35 (PVC) poly vinyl chloride type PSM, gravity drain, gasketed
- K. Hot and Cold Water Pipe in building above slab:
- 1. Type "L" hard drawn copper tubing (ASTM-B42) with wrought copper solder fittings (ANSI-B16.22) and 95/5 tin/antimony solder.
- L. Hot and Cold Water Pipe in building below slab:
- soldered fittings (ANSI-B16.22) and silver solder. (No fittings below

- Q. Water piping located in concrete block walls shall be insulated with Armaflex A.P. pipe insulation. Water piping located in stud walls or
- R. All pipe penetrations through concrete block walls shall be core drilled.
- . Sanitary waste piping inside building to be sloped at 1/8" per foot.
- U. Water piping shall be pitched and valved for complete drainage. Water piping shall be protected from freezing. All piping to be located on warm side of building insulation.

- Copper Pipe wrought copper union with copper to copper joint and solder end type equal to Grinnell Fig. #9102.
- 2. Black Steel Pipe A.A.R. malleable iron union with bronze to iron ground joint equal to Grinell Fig. #571.

- (a) Gate Valve (2" and smaller) bronze gate valve with solid wedge, rising stem, screw-in bonnet, 200 lb. W.O.G., equal to Nibco type T-111 or S-111.

Balancing valve — shall be Bell & Gossett "circuit setter", bronze body, brass ball construction with glass and carbon filled TFE seat rings. Equal valves by Armstrong "CBV" or Sarco Balance Master.

J.R. Smith Co., Precision Plumbing Products or Sioux Chief.

sleeve and be sized for pipe opening required.

- F. Wall and Floor Plates Install chrome plated plates at all pipe penetrations in finished greas. Install agreement steel plates at all pipe penetrations in unfinished areas. Plates must completely cover pipe
- G. Shock Arrestors Hydro-pneumatic type as manufactured by Wade, Zurn,
- H. Thermometers adjustable angle, red reading, mercury type thermometers with thermometer well, 3-1/2" stem, 1-1/2" extended neck, 9" scale and guaranteed 1% accuracy and a temperature range in accordance with related work. Thermometers based on Weiss. Equal manufacturers by Trerice, Weksler or Ashcroft.
- Gauges -4-1/2" dial pressure gauge with a gauge cock, and having 1% accuracy. Gauges shall be pressure or compound as required and shall be as manufactured by Weiss, Trerice or Ashcroft.
- Aquastats adjustable surface mounted type as manufactured by Honeywell, Powers, Barber or Coleman.
- K. Frost-proof Wall Hydrants (WH-1) Woodford #14 or approved equal. Unit shall have 3/4" male hose connection, vacuum breaker, "T" handle, bronze wall casting, bronze operating parts, and length suitable for wall
- Install unions at piping connections to all pieces of equipment, valves, and
- M. Install valves where indicated on the drawings and where necessary for proper operation and maintenance of systems. Isolation valves shall be
- installed on supply piping to each group of fixtures. N. Install all plumbing specialties per manufacturer's instructions.
- O. All products of the same type shall be by the same manufacturer.
- P. Install arrestors in hot and cold water piping to each bank of fixtures and where shown on the drawings. Coordinate access panels as required with General contractor. Size and install per manufacturer's requirements
- Q. Install thermometers, pressure gauges, aquastats, wall hydrants, and hose
- bibbs where shown on the drawings.

### R. Install other specialties where noted on the drawings. PLUMBING FIXTURES AND TRIM

based on fixture count.

- A. Furnish and install all plumbing fixtures scheduled on the drawings and specified herein. Furnish complete with all trim and accessories
- B. Provide rough—in and final connection to Owner furnished equipment and Kitchen equipment as noted on the drawings and specified herein.
- C. Fixtures and trim are based on the following: 1. Plumbing fixtures based on American Standard. Equal quality fixtures
- by Kohler, Crane and Eljer are acceptable. 2. Sinks are based on Elkay. Equal quality sinks by Just or Moen are
- 3. Water closet seats are based on Beneke. Equal quality fixtures by Bemis, Church, Olsonite or Sperzel are acceptable.
- 4. Plumbing fixture faucets are based on Zurn. Equal quality faucets by American Standard, Kohler, Crane, Eljer, Chicago, Ghroe American, Delta, Moen, Speakman, T & S Brass or Valley faucets are acceptable.
- 5. Plumbing fixture brass is based on McGuire. Equality brass by Kohler, Crane, E.B.C., Eljer, Eastman, and Frost are acceptable.
- D. Fixtures, faucets, drains, cleanouts, trim and equipment shall be by the same manufacturers unless otherwise noted.
- E. Trim shall be chromium plated. Fixtures shall be white unless otherwise

G. All pipes penetrating walls shall have chromium plated escutcheons.

- F. All exposed piping shall be chromium plated.
- H. Field verify installation requirements of all fixtures and Owner furnished equipment. Provide all required valves and piping. Coordinate installation of all equipment with Architect.
- Provide backing for all wall hung fixtures and faucets.
- J. Valve all hot and cold water supplies to each fixture and each group of fixtures. Adjust all valves and test all fixtures for proper operation.
- K. Valve all hot and cold water pipe rough—ins to plumbing fixtures as specified. Valves shall be chrome plated with chrome supply tubes.

M. Caulk all wall and floor mounted fixtures with silicone. Color to be

L. After water piping system is flushed, remove all strainers and aerators and clean thoroughly.

selected by Architect.

END OF SECTION

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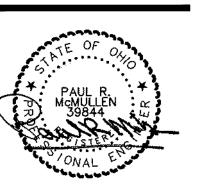
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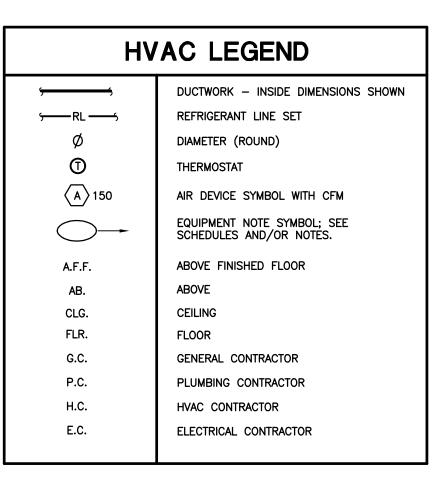
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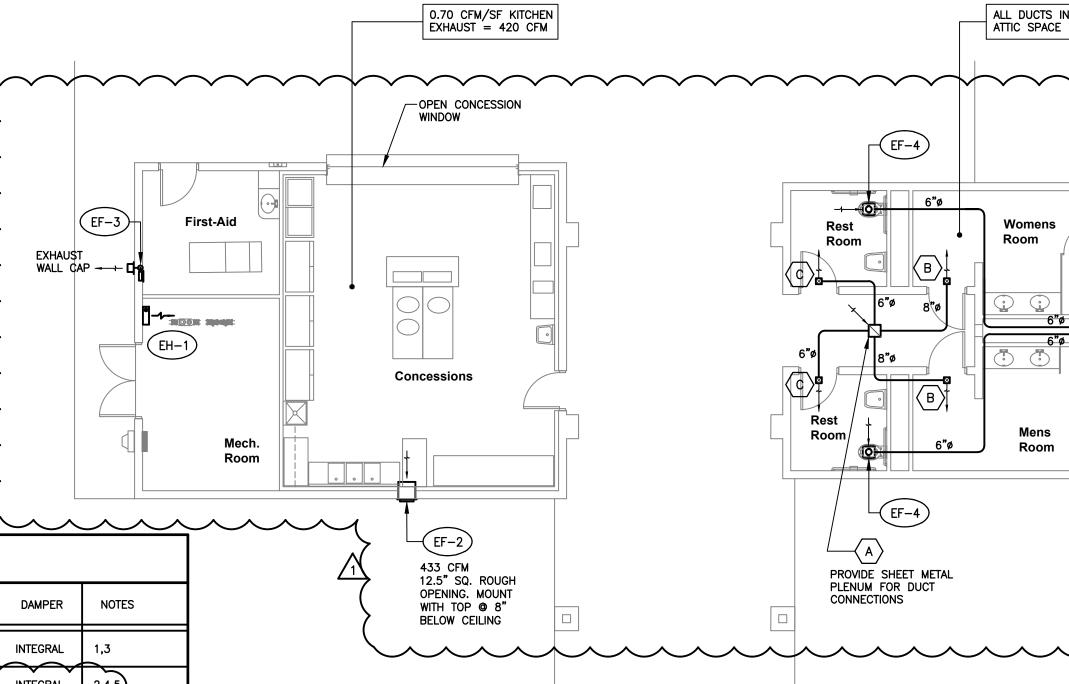
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PLUMBING DRAWING NUMBER

### HVAC SPECIFICATIONS BASIC HVAC REQUIREMENTS A. Refer to Instructions to Bidders, General Conditions, Supplementary Conditions, and the Sections of Division 1: General Requirements for specific requirements, responsibilities and methods relating to the Mechanical work. Furnish all materials, labor, tools, transportation, incidentals and appurtenances to complete in every detail and leave in working order all items of work called for herein or shown on accompanying drawings. Include any minor items of work necessary to provide complete and fully operative systems whether specifically shown or not. B. Comply with all Local and State building codes, Life Safety Code, National Fire Protection Association (NFPA), applicable utility company requirements and applicable Federal requirements. Obtain and pay for all required permits, fees, inspections and tests. File drawings necessary to obtain permits, schedule necessary inspections and tests. Submit Certificates of Inspection and approval upon completion of the work. C. Material and equipment installed under this Contract shall be new, un-deteriorated, and of a quality not less than the minimum specified. All equipment shall be certified, listed and labeled by UL. Work must be performed by Licensed Contractors as required by Local and State Codes. Contractors shall be certified by approving agencies D. Drawings are schematic and show approximate locations of work. Exact locations of equipment must be coordinate with other contractors and verified in the field. It is not intended that drawings indicate all necessary offsets, and it shall be the work of this Contractor to make the installation in such a manner as to conform to structure, avoid obstructions, preserve headroom and keep openings and passageways clear. Significant deviations from Drawings must be approved by the Architect. The Architect reserves the right to make minor changes up to the time of roughing—in without additional cost. E. If a conflict occurs between the Drawings and Specifications, the Contractor shall immediately call it to the attention of the Architect, who will determine which interpretation shall take precedence. Guarantee all work executed under this Contract to be free from defective workmanship and/or materials. Should any defects develop within a period of one (1) year after final acceptance has been made, correct them and repair any damage that resulted from same at no additional cost. G. Submit electronic shop drawings, product data and samples as required under Division 1, and as listed in these specifications. H. Maintain a record set of prints showing exact location of all work. Record addendum and change order items, and any deviations made from bid documents. Drawings shall be clean and undamaged, and shall not be used for any purpose other than recording deviations from working drawings and exact locations of concealed work. Maintain drawings at the job site and current for weekly inspection. Upon completion of work, deliver these drawings to Architect. Submit two (2) bound copies of operation and maintenance manuals, 8-1/2" X 11" in three ring hard back binders. Format as follows: Title page: Title of Project, Address, Date of Submittal, Name and Address of Contractor, Name of Architect, Name of Engineer. Second page: Index of manual contents/A tabbed section for each specification section with a list of all equipment furnished under that section together with suppliers' names and addresses and a copy of each approved shop drawing. Also provide the following in each section as applicable: description of systems, operating instructions, maintenance and lubrication instructions, servicing instructions, manufacturer's information and parts lists, including sources of supply, equipment warranties, control diagrams, wiring diagrams, routine and 24 hour emergency information: name, address and telephone number of servicing agency, include names of personnel to be contacted for service arrangements. J. After placing systems in operation, thoroughly instruct designated Owner's personnel on operation and maintenance of all equipment and systems K. Whenever the Contractor furnishes equipment or material other than the Design Base Manufacturer specified, he is responsible for the cost and coordination of all modifications required not only for his work, but also for the work of all other Trades affected. Contractor may submit substitutes of his choice, without prior approval, on the "Substitution Sheet" included in the Bid Schedule. Such substitutes will not form basis of award and may be considered only after selection of lowest bidder furnishing "Base Design" as specified. Avoid cutting of concrete, masonry and other new work, by coordination and use of sleeves and inserts. Inform the General Contractor of the locations of all sleeves and inserts required and deliver sleeves and inserts to the General Contractor for installation. M. Upon completion of work, all material and equipment furnished in this Contract shall be thoroughly cleaned of dirt, stickers, grease, rust, oil and other foreign matter. Contractor shall spot prime factory finished equipment which has rusted or been damaged with zinc chromate primer. N. Protect surface, equipment, and materials during construction from damage from water, dirt, welding and cutting, spatters paint droppings, etc. Repair or replace as directed any materials damaged during construction operations. Damaged equipment or materials must immediately be repaired or replaced by this Contractor, to the satisfaction of the Architect and at no additional cost to the Owner. O. Electrical Contractor to provide conduit and wiring for devices as indicated on Electrical Drawings and in Specifications. Any additional wiring required for equipment shall to be the responsibility of this Contractor. This Contractor will be responsible for the successful operation of systems. HVAC SHOP DRAWINGS A. Submit six (6) copies of shop drawings for review of the following equipment. Submittals shall include, but not limited to the following: Air Devices Electric heater B. Check, sign and approve all shop drawings. Drawings not signed and approved by the Contractor will be returned. C. Submit shop drawings for all items of equipment, piping, and insulation for review before construction. Prepare required drawings at sufficient scale to clearly show details of construction, physical dimensions and related work of others. Review of shop drawings shall not relieve the Contractor of responsibility for accuracy of shop drawings or of full requirements of the Contract drawings. A. This Contractor shall furnish 12 ga. sheet metal sleeves for all wall openings required for his work. The General Contractor shall install all sleeves EXHAUST FANS A. Furnish and install wall and ceiling mounted fans as noted on the drawings and specified herein. B. Ceiling mounted fans shall be Broan as scheduled on the drawings or equal by Greenheck, Penn, Jenco-Fan or ACME. Fans shall have insulated housings, integral plastic Wall mounted exhaust fan shall be Cook model XPD powered wall exhaust fan as scheduled on the drawings or equal by Penn, Greenheck, Jenco-Fan, ACME, or Shipman. Power wall exhausters shall be spun aluminum, propeller type with direct drive motor. Fans shall be furnished with integral wall sleeve, shutter dampers, forced motor cooling, birdscreen, unit mounted disconnect switch, fan motor overload protection, and unit mounted speed switch Coordinate location of all equipment with Architect in field. Coordinate electrical requirements of all fans with Electrical Contractor. All wall openings shall be by the General Contractor. AIR DISTRIBUTION A. Furnish and install a complete air distribution system for the exhaust systems for the building as shown on the drawings and as herein specified. Include cleaning, testing, balancing and adjusting the air systems for proper air circulation to each area of the building. Submit complete duct lay—out shop drawing prior to start of B. Ductwork shall meet the requirements of: SMACNA — HVAC Duct Construction Standards, Metal and Flexible, NFPA 90A Standard for the Installation of Air Conditioning and Ventilating Systems, and OBC Mechanical Code, Chapter 6. Ductwork liner shall meet NFPA 90A and 90B Life Safety Standards and conform to the requirements of AIR DEVICES AND LOUVERS A. Furnish and install air devices and louvers as noted on the drawings or specified herein. Diffusers, registers and grilles shall be by Titus as scheduled on the drawings or equal by Anemostat, Metalaire, Tuttle & Bailey, Carnes, Krueger, Nailor, or Price. All devices shall mount flush in the ceiling or as noted on the drawings. All devices shall have a factory baked enamel finish as scheduled on the drawings. Finish shall be selected by Architect. Stationary louvers shall be stationary louver type with minimum 16 gauge blades and frame and 1/2" aluminum mesh screen inside. Optional manufacturers: Louvers and Dampers, Ruskin, American Warming and Ventilating, Airolite, Arrow. All finishes shall be selected by Architect. Verify final locations of air devices as shown on the drawings with Architect or architectural reflected ceiling plan. Support air devices in suspended ceilings by the use of independent hangers. Air devices designed for lay-in type ceilings may be supported by the ceiling grid system. Use flexible ducts when making duct connections to lay—in outlets. Louvers shall be furnished to the General Contractor with mounting sleeve for installation. This Contractor shall locate opening for General Contractor with approval by Architect. MISCELLANEOUS ELECTRIC HEATING A. Furnish and install miscellaneous electric heating units as shown on the drawings and specified herein. Capacities, voltage, and accessories as noted on the drawings. Install equipment in accordance with manufacturer's recommendations. TEMPERATURE CONTROL A. Furnish and install factory thermostat for ductless split system and ceiling heater as noted on the drawings or specified herein. Design and installation work noted in Part 2 shall be by a Contractor normally engaged in this type of work. The control system is intended to cover the automatic control of all heating, ventilating, and air B. The Control Contractor shall guarantee the control system installed under this section of the specification to be free from defects in workmanship and material under normal use and provide service for a period of one year after acceptance of the building. Any defects in workmanship or material during this time shall be corrected by the Control Contractor at no charge to the Owner. After completion of the installation, the control contractor shall completely adjust all control equipment provided under this contract and place the system in operation.





	FAN SCHEDULE										
SYMBOL MFR. & MODEL # CFM S.P. DRIVE ELECTRICAL DUTY DAMPER NOTES											
EF-1	BROAN #QTXE (OR EQUAL)	150	0.25"	DIRECT	120V	TOILET	INTEGRAL	1,3			
EF-2	J&D MANUFACT. #VES10C (OR EQUAL)	433	0.10"	DIRECT	120V	CONCESSION	INTEGRAL	2,4,5			
EF-3	BROAN #509S (OR EQUAL)	200	0.125"	DIRECT	120V	FIRST AID	INTEGRAL	2,4			
EF-4	BROAN #A80 (OR EQUAL)	75	0.25"	DIRECT	120V	TOILET	INTEGRAL	1,3			
Er-4	EF-4 BROAN #A80 75 0.25" DIRECT 120V TOILET INTEGRAL 1,3										

- INTEGRAL GRILLE, DISCONNECT, & BACKDRAFT. INTEGRAL WALL SLEEVE, SCREEN & BACKDRAFT DAMPER.
- 4) WIRED BY E.C. TO PILOT SWITCH.

FRAME TO BE COMPATIBLE WITH PLASTER, DRYWALL, OR OTHER

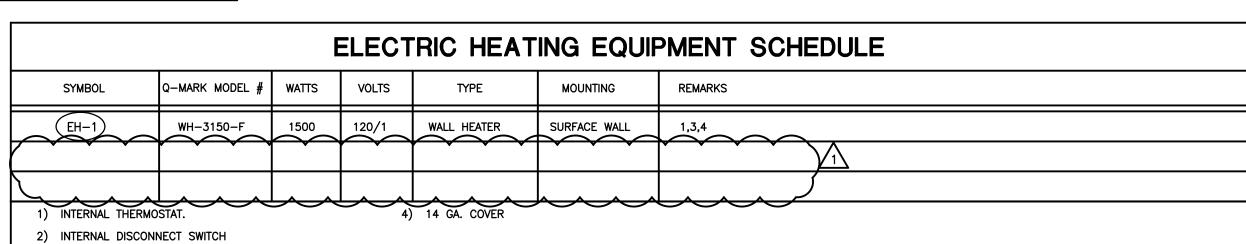
4) PROVIDE NUSECT SCREEN HY DUCT

- 5) FURNISHED WITH CORD & PLUG

)	WIKED	ВТ	E.C.	10	LIGHIS

		AIR	DEVICE S	SCHEDU	JLE		
SYMBOL	FACE SIZE	NECK SIZE	LIMA MODEL NO.	MAX. CFM	MOUNTING SURFACE	AIR PATTERN	NOTES
A	14" x 14"	12" x 12"	60GH	400	CEILING	RETURN	2,4
B	8" x 8"	8"ø	60GH	5 150	CEILING	TRANSFER	2
(c)	6" × 4"	6"ø	69GH	50	CEILING	TRANSFER	2
1)	FURNISH NECK MOUNT	TED OPP. BLADE DAME	PER.	71			





3) INTEGRAL GRILLE

			LOUV	ER SCI	HEDULE		
SYMBOL	AIROLITE MODEL #	SIZE H X W X D	SQUARE FEET FREE AREA	F.P.M	APPROXIMATE S.P.	CFM	NOTES
L-1	609-B	12" X 18" X 4"	0.50	963	0.05"	450	1,2
NOTES.							

- (1) FINISH TO BE SELECTED BY ARCHITECT
- (2) PROVIDE BIRDSCREEN BEHIND LOUVER

2

4

**Q** 

(EF-1)

(EF-1

12"x18" WALL

OPENING IN ATTIC

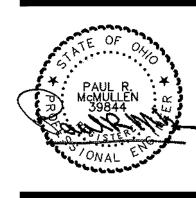
METAL PLENUM FOR

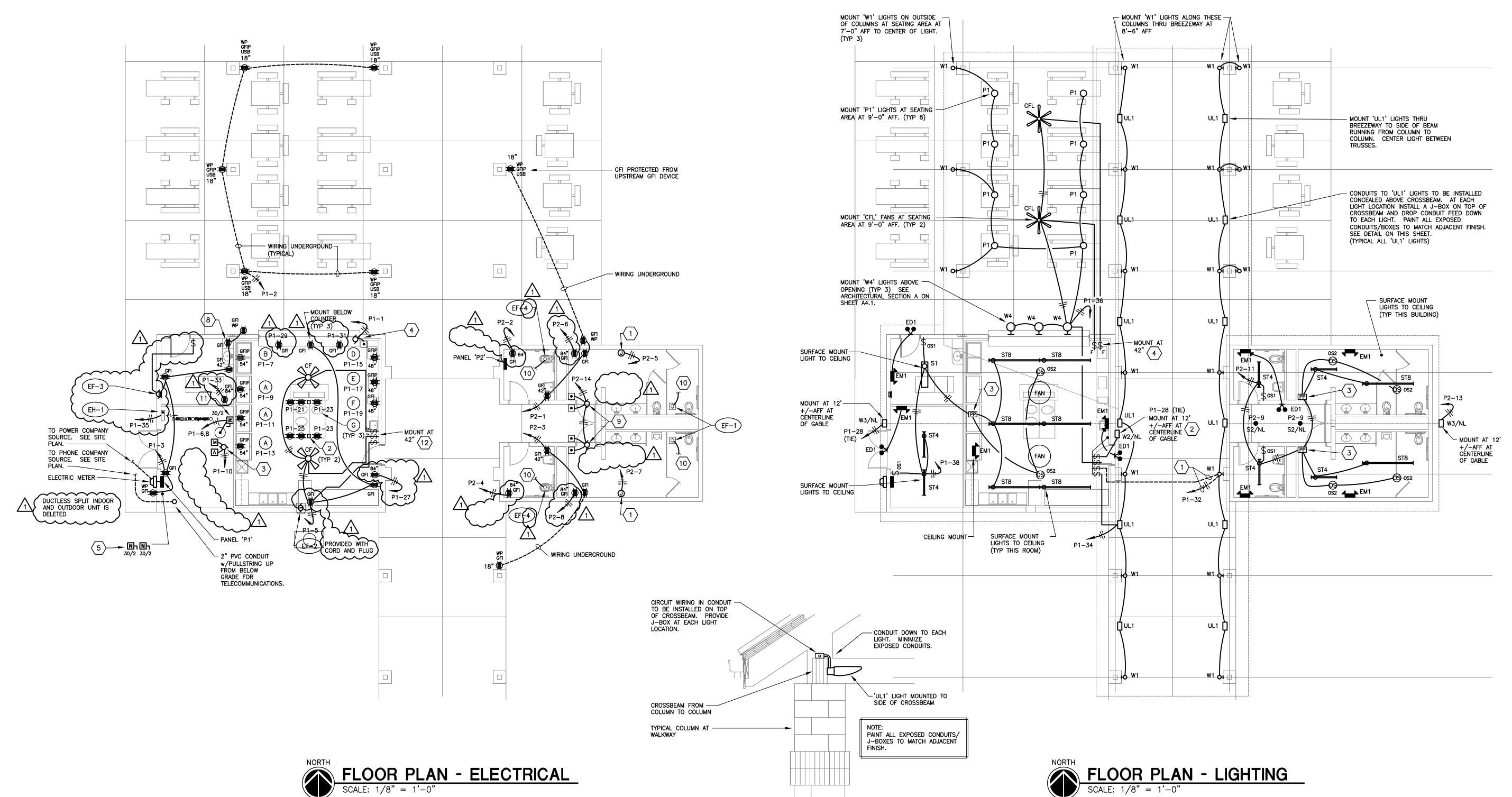
DUCT CONNECTIONS.

PROVIDE SHEET

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### CONCESSION EQUIPMENT

- A. 2-DOOR BEVERAGE COOLER, 120 VOLT
- B. ICE CREAM FREEZER, 120 VOLT
- D. SNO-CONE MACHINE, 120 VOLT
- E. POPCORN MACHINE, 120 VOLT F. NACHO CHIP DISPENSER, 120 VOLT
- G. PORTABLE CROCK POT, 120 VOLT NOTE: ALL CONCESSION EQUIPMENT BY OWNER

### ELECTRICAL CODED NOTES

- CIRCUIT FOR ELECTRIC HAND DRYER. COORDINATE WITH G.C.
- ALUMINUM POWER POLE WITH DUPLEX RECEPTACLES AT 42" TO BOTTOM AND 48" ON ONE SIDE AND AT 42" TO BOTTOM ON OTHER SIDE. CONNECT TWO RECEPTACLES PER CIRCUIT AS NOTED. WIREMOLD OR EQUAL.
- PROVIDE CIRCUIT AND DISCONNECT SWITCH FOR HOT WATER CIRCULATION PUMP. WIRE TO AQUASTAT PER MANUFACTURER'S WIRING DIAGRAMS.
- PROVIDE CIRCUIT FOR MOTORIZED DOOR OPENER. WIRE AND INSTALL CONTROLS PROVIDED WITH DOOR. MOUNT AT 42" AFF.
- DISCONNECT SWITCHES FOR BALLFIELD SPORTSLIGHTS. ONE FOR INFIELD LIGHT CIRCUIT AND ONE FOR OUTFIELD LIGHT CIRCUIT. PROVIDE LABELS ON
- DELETED.

SWITCHES.

### DELETED.

- RECEPTACLE FOR BOTTLE FILLER PLUG-IN TRANSFORMER. COORDINATE EXACT LOCATION WITH BOTTLE FILLER INSTALLER.
- PROVIDE CIRCUIT TO ADA DOOR MOTOR. WIRE TO PUSHBUTTON CONTROLS
- WIRE TO LIGHT CIRCUIT IN ROOM. FAN TO BE CONTROLLED WITH LIGHTS BY OCCUPANCY SENSOR.
- PROVIDE CIRCUIT AND DISCONNECT SWITCH FOR ELECTRIC HOT WATER HEATER.
- 12. INTERIOR PADDLE FAN SPEED CONTROL SWITCH.

### 'UL1' WIRING DETAIL

### **GENERAL NOTES**

- CONNECT EXIT AND EMERGENCY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF
- CONNECT EXIT DISCHARGE LIGHT TO EXIT OR EMERGENCY LIGHT BATTERY PACK. EXIT DISCHARGE LIGHT TO OPERATE DURING POWER OUTAGE ONLY.
- MOUNT 'ED1' LIGHTS ON CONCESSION BUILDING ABOVE DOOR OPENING.
- MOUNT 'ED1' LIGHTS ON RESTROOM BUILDING AT 8'-0" AFF.
- IN ROOMS WITH BLOCK WALLS WITHOUT FURRING/DRYWALL INSTALL SURFACE MOUNTED BOXES AND CONDUITS. PAINT BOXES AND CONDUITS TO MATCH
- IN ROOMS WITH FURRING/DRYWALL INSTALL RECESSED BOXES AND CONCEAL WIRING IN WALLS.
- ALL CONDUITS TO EXTERIOR WALL OR CEILING MOUNTED RECEPTACLES AND
- LIGHTS ARE TO BE CONCEALED IN MASONRY WHERE POSSIBLE. CONCEAL EXTERIOR WIRING/CONDUIT IN MASONRY PIERS TO ITEMS MOUNTED TO PIERS AND TO PENDANT MOUNTED LIGHTS. ALL EXPOSED CONDUIT THAT ARE EXPOSED AND MOUNTED TO UNDERSIDE OF ROOF DECK TO PENDANT LIGHTS AND FANS SHALL BE RUN PARALLEL AND PERPENDICULAR TO ROOF SLATS. PAINT ALL EXPOSED CONDUITS AND BOXES TO MATCH ADJACENT

### □ LIGHTING CODED NOTES

- 1. RUN WIRING UNDERGROUND TO SWITCH AND PANELBOARD.
- WALLPACK WITH PHOTOCELL TO BE CONNECTED TO SWITCH IN CONCESSION ROOM FOR ABILITY TO TURN FIXTURE OFF AT NIGHT. NORMALLY LIGHT WILL BE ON AS DUSK TO DAWN NIGHTLIGHT BUT IF OWNER DESIRES THEN LIGHT CAN BE TURNED OFF WHEN BREEZEWAY LIGHTS ARE TURNED ON AT NIGHT.
- WIRE LOW VOLTAGE CEILING OCCUPANCY SENSORS TO POWER PACK RELAY. RELAY TO CONTROL LIGHTS IN ROOM. WALL OR CEILING MOUNT POWER PACK
- 4. EXTERIOR PADDLE FAN SPEED CONTROL SWITCH.

AS UNOBTRUSIVELY AS POSSIBLE.

### LIGHTING CONTROL SCHEDULE

WALL MOUNT SINGLE POLE, DUAL TECHNOLOGY INFRARED/MICROPHONICS OCCUPANCY SENSOR WITH MANUAL ON/OFF CONTROL BUTTON, 120 VOLT, IVORY FINISH. PROGRAM SWITCH FOR MANUAL ON, AUTO OFF TIME DELAY OF 20 MINUTES. SENSOR SWITCH #WSX-PDT-SA-IV or equal.

LOW VOLTAGE DUAL TECHNOLOGY INFRARED/MICROPHONICS OCCUPANCY SENSOR, CEILING MOUNTED, WHITE COLOR. UNIT TO BE PROGRAMMED AS AUTO=ON AND 20 MIN. TIME-TO-OFF. 24' DIAMETER SENSING. PROVIDE (1) LOW VOLTAGE POWER PACK TO CONTROL LIGHTS. SENSOR SWITCH #CM-PDT-9-R with #PP20 (POWER PACK) or equal.

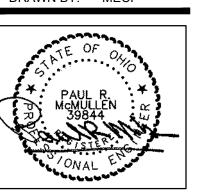
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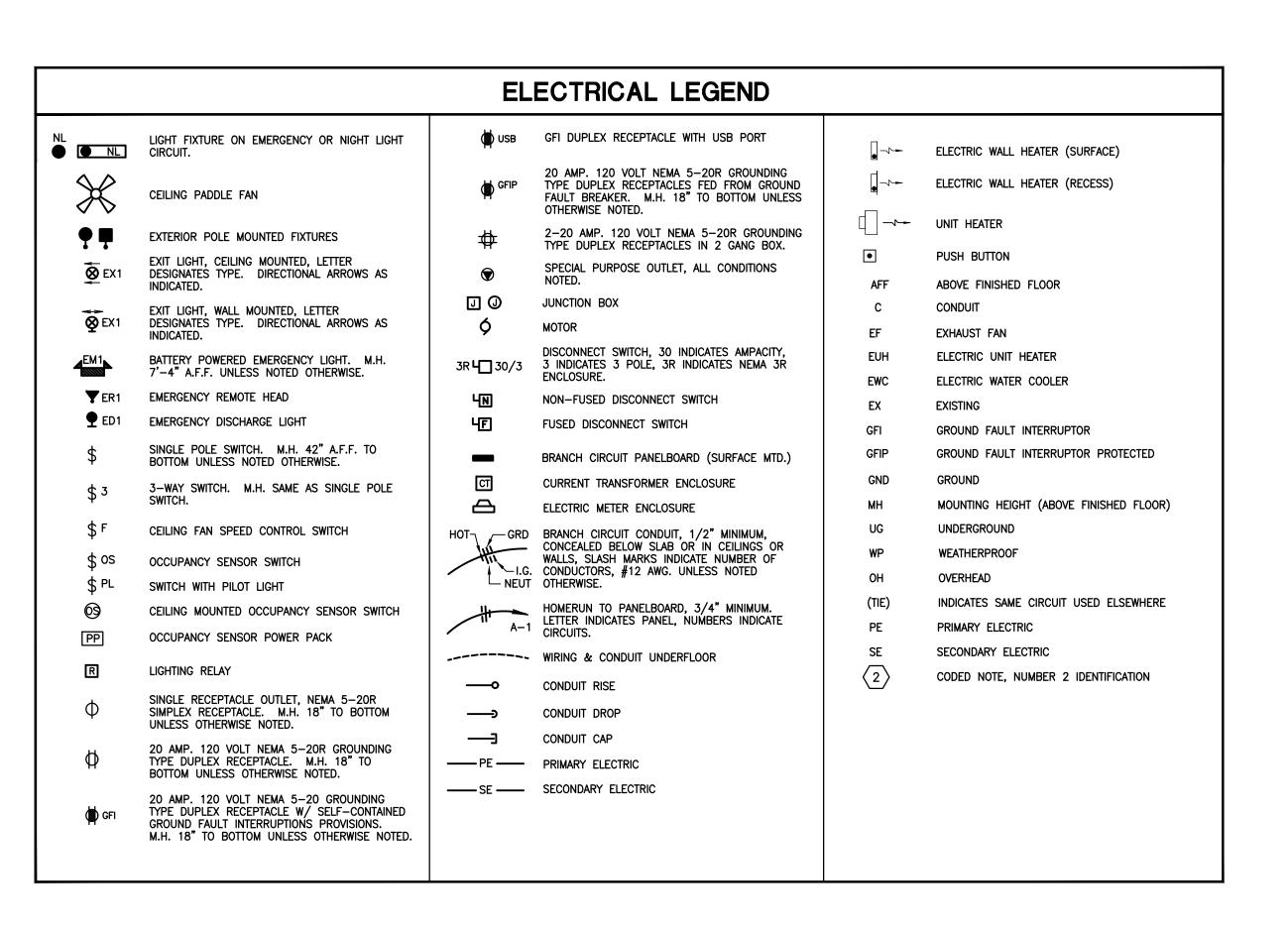
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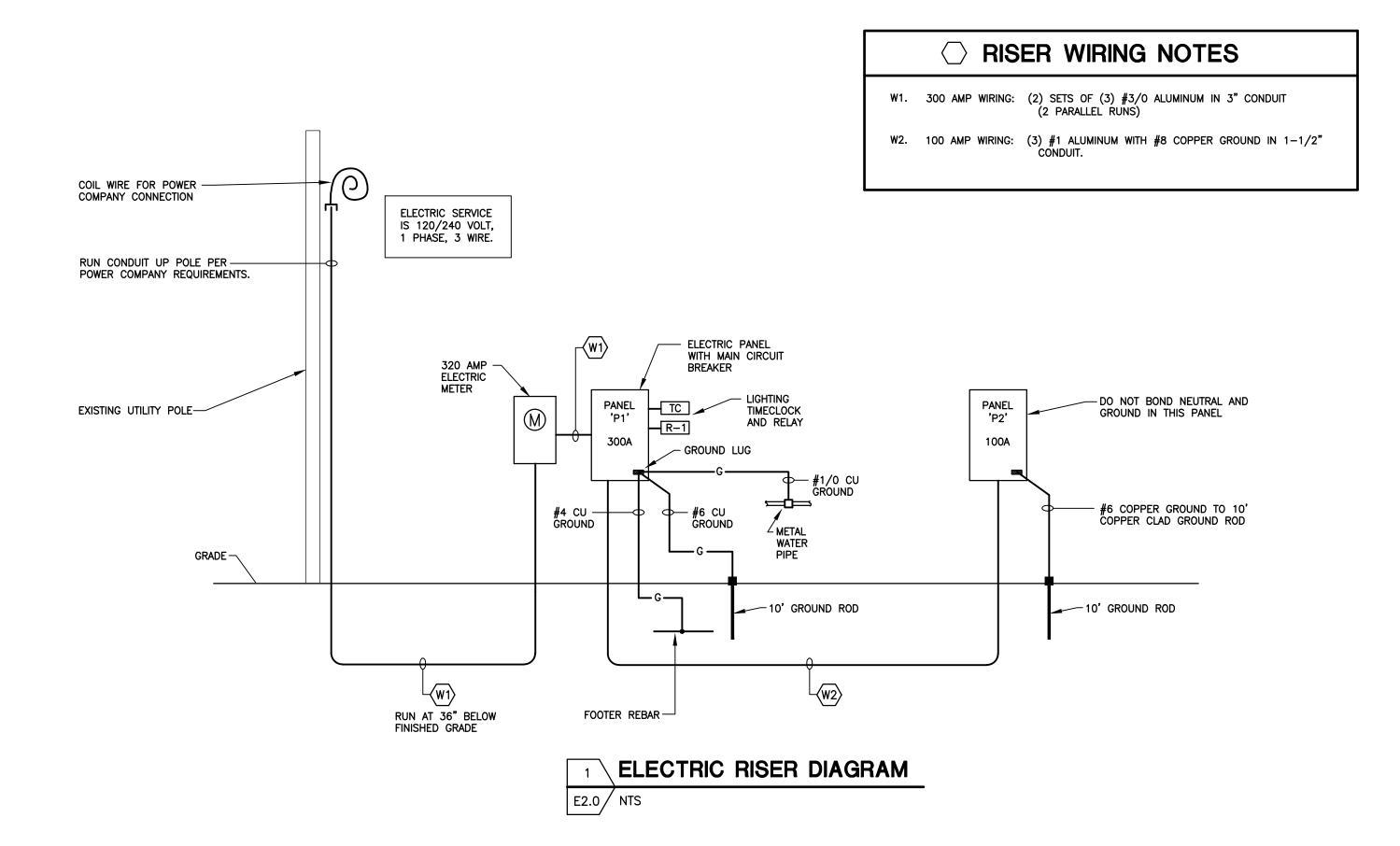




### LIGHT FIXTURE SCHEDULE ST4 4' LED STRIP LIGHT WITH DROPPED LENS, 3,000 LUMEN, 3500K, 30 WATTS, PENDANT MTD. EXTERIOR 16" ROUND RLM 'WAREHOUSE SHADE' INCANDESCENT WHITE FINISH, 120 VOLT. LIGHT FIXTURE WITH (1)-18 WATT SCREW BASE 2700K LED LAMP, PRISMATIC LITHONIA #ZL1D-3000LM-FST-MVOLT-35K-80CRI-WH or equal GLOBE, WIREGUARD, ARCHITECTURAL BRONZE FINISH, SLOPED CEILING MOUNT CANOPY, RIGID CONDUIT STEM TO LENGTH AS NOTED ON PLAN FOR MOUNTING HEIGHT TO BOTTOM OF FIXTURE, 120 VOLT, (18 WATTS). ST8 8' LED STRIP LIGHT WITH DROPPED LENS, 6,000 LUMEN, 3500K, 60 WATTS, WHITE FINISH, 120 VOLT. BASELIGHT #W516-51-SLC 3/4"/51 (Sloped Ceiling Canopy) -200W INC-PR3-GU1 (Stem, Length as needed) LITHONIA #TZL1D-6000LM-FST-MVOLT-35K-80CRI-WH or equal EXTERIOR INDIRECT UPLIGHT SCOOP LIGHT WITH ALUMINUM HOUSING, TEMPERED S1 LED SQUARE BASKET WRAPAROUND LIGHT WITH WHITE DIFFUSER LENS, 4,800 GLASS LENS, 16,704 LUMENS, 3500K, TEXTURED BRONZE FINISH, 120 VOLT, LUMEN, 3500K, 41 WATTS, WHITE FINISH, 120 VOLT. LITHONIA #SBL4-4800LM-80CRI-35K-MVOLT or equal INSIGHT #D2X-150-35K-SM-UNV-NO-TBR 7" ROUND SURFACE MOUNTED LED DOWNLIGHT WITH LENS, 1000 LUMEN, WET LOCATION, WHITE TRIM, MVOLT, MOUNTS TO RECESSED J-BOX, 13 WATTS. ED1 WET LOCATION LED EXIT DISCHARGE LIGHT WITH TWO 1.2 WATT HEADS, JUNO #JSF-7IN 10LM-35K-90CRI-MVOLT-WH or equal UNIVERSAL DC VOLT (8-30VDC), DARK BRONZE. LITHONIA #ELMRW-LP220L-DDBTXD-T or equal SURFACE WALL MOUNT LED ADA DECORATIVE LINEAR WALL SCONCE WITH OPAL POLYCARBONATE LENS, TWO OFFSET BAR GRILL, BRONZE, WET LOCATION, 1267 LUMEN, 35K, 120 VOLT, 15 WATT EM1 UNIVERSAL MOUNT (CEILING OR WALL) EMERGENCY LIGHT WITH (2) 6.6 LUMINAIRE LED #SPC8-20F-18IN-NODIM-15W-35K-MVOLT-OP-BRZ-WL WATT HEADS, WHITE FINISH, LITHIUM BATTERY WITH CAPACITY TO POWER TWO REMOTE HEADS, 120 VOLT. LITHONIA #ELM4L-UVOLT-LTP or equal EXTERIOR WEDGE CUTOFF LED WALLPACK WITH FORWARD THROW LIGHT DISTRIBUTION, 2000 LUMEN, 3500K, 80 CRI, PHOTOCELL, DARK BRONZE 42" DIAMETER CEILING PADDLE FAN, WEATHER-RESISTANT, WITH 5 BLADES, FINISH, 15 WATTS, 120 VOLT. 6 SPEEDS, LIGHT KIT, BRONZE HOUSING AND BLADES, SLOPED CEILING KIT, LITHONIA #WDGE1-P2-35K-80CRI-VF-MVOLT-PE-DDBXD or equal DOWNROD, BLUETOOTH WALL CONTROL (WHITE), 120 VOLT. MODERN FORMS 'WYND' #FR-W1801-42L-BZ-BZ WITH #F-WCBT-WT W3 EXTERIOR LED WALLPACK WITH WITH LENS, FORWARD THROW LIGHT WALL CONTROL, #XF-SCK SLOPED CEILING KIT, DOWNROD DISTRIBUTION, 9,700 LUMEN, 4000K, PHOTOCELL, DARK BRONZE FINISH, 73 WATTS, 120 VOLT. LENGTH AS NEEDED TO MOUNT AS NOTED ON DRAWING. LIGHT KIT NOT TO BE INSTALLED. LITHONIA #TWR2 LED-P2-40K-MVOLT-PE-DDBTXD or equal 52" DIAMETER CEILING PADDLE FAN, WEATHER-RESISTANT, WITH 5 BLADES, 6 SPEEDS, LIGHT KIT, BRONZE HOUSING AND BLADES, SLOPED CEILING KIT, W4 WALL MTD. EXTERIOR 14" ROUND RLM 'WAREHOUSE SHADE' INCANDESCENT DOWNROD, BLUETOOTH WALL CONTROL (WHITE), 120 VOLT. LIGHT FIXTURE WITH (1)-18 WATT SCREW BASE 2700K LED LAMP. MODERN FORMS 'WYND' #FR-W1801-52L-BZ-BZ WITH #F-WCBT-WT PRISMATIC GLOBE, WIREGUARD, ARCHITECTURAL BRONZE FINISH, WALL WALL CONTROL, #XF-SCK SLOPED CEILING KIT, DOWNROD LENGTH AS NEEDED TO MOUNT AS NOTED ON DRAWING. MOUNT EXTENSION, WALL MOUNT BACKPLATE, 120 VOLT, (18 WATTS). BASELIGHT #W514-51-E1 (Wall Arm Extension)-150W INC-CB LIGHT KIT NOT TO BE INSTALLED. 1/2 (Wall Backplate)-PR3-GU1

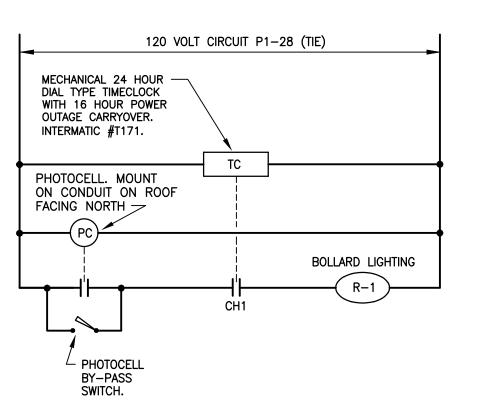
ACCEPTABLE SCREW BASE LED LAMP MANUFACTURER IS: CREE - SOFT WHITE 60 WATT EQUIVALENT (11 WATT, 815 LUMEN), 75 WATT EQUIVALENT (14 WATT, 1100 LUMEN) AND 100 WATT EQUIVALENT (18 WATT, 1600 LUMEN) REPLACEMENT LAMPS, 2700K COLOR TEMPERATURE, MEDIUM BASE,

OMNIDIRECTIONAL BEAM SPREAD, UL DAMP LISTED.



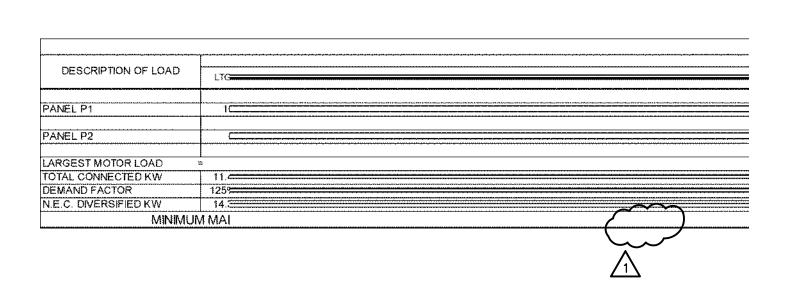
PAN		MAIN BREAKER	YES	-	300	ΑN	1P.,	10,000	AIC	MOUNTING SURFACE		
	P1	MAIN LUGS ONLY	NO	_	120	/ 2	40	VOLTS		LOCATION		
TYF	Æ:	SOLID NEUTRAL	YES	-	1 Pł	 H., 3	W	RE, 60 H	ΙZ	FED FROM SERVICE		•••
SQ	D NQ	GROUND BUS	YES	-	* = GFI	BRE	AK	ER .		** = WITH 'LOCK-ON'	***************************************	
CKT	BKR	LOAD		WIRE	CKT.	LI	NE	CKT.	WIRE	LOAD	BKR	Ck
No.	DNR	LOAD		VVIRE	KW	1	2	KW	VVIRE	LOAD	BKK	No
1	20/1	CONCESSION DOOR I	VITR	12	1.2	Х		1.0	12	* RCPT- SEATING	20/1	2
3	20/1	RCPT - MED/STOR		12	1.0		Х			SPARE	20/1	4
5		RCPT - CONCESSION		12	0.7	Х		2.3	10	   WATER HEATER	30/2	6
7	20/1	* ICE CREAM FRZR		12	1.2		Х	2.3				8
9	20/1	* BEV COOLER		12	0.8	Х		1.2	12	CIRC PUMP	20/1	10
11	20/1	* BEV COOLER		12	0.8		Х			SPARE	20/1	1:
13	20/1	* BEV COOLER		12	0.8	Х		1.0	10	INFIELD LIGHTS	20/2	1.
15	20/1	* SNO-CONE MA CHIN	E	12	0.6		Х	1.0		THE PERSON OF TH	20,2	16
17	20/1	* POPCORN MACHINE		12	1.0	Х		1.3	10	OUTFIELD LIGHTS	20/2	18
19	20/1	NA CHO DISPENSER		12	0.4		Х	1.3		001112222101110		20
21	20/1	RCPT - POWER POLE		12	0.4	Х		1.0	12	FUTURE SIGN	20/1	2:
23	20/1	RCPT - POWER POLE		12	0.4		Х	1.5	10	FUTURE SCOREBOARD	20/1	2.
25		RCPT - POWER POLE		12	0.4	Х		1.2	12	GATE MOTOR	20/1	26
27	20/1	RCPT - CONCESSION	* *	12	0.2		Х	0.2	12	LTS- PARKING/WALL/TC	20/1	28
29	20/1	RCPT - CONCESSION		12	0.2	X		0.2	12	(R-1) BOLLARD LTS	20/1	3
31	20/1	RCPT - CONCESSION		12	0.2	)	Х	1.1	12	LTS - EAST BREEZEWAY	20/1	3:
33	20/1	RCPT - MEDICA L		12	0.2	Х		1.3	12	LTS - WEST BREEZEWAY	20/1	34
35	20/1	EH-1 WATER ROOM		12	1.5		Х	0.4	12	LTS/FAN - SEATING	20/1	36
37	20/1	SPARE		ما	كربر	Х		0.6	12	LTS - CONCESSION	20/1	3
39	100/2	PANEL P2		2			Х			SPARE	20/1	4
41	100/2			-		Х				SPARE	20/1	4:

PAN		MAIN BREAKER NO	_	100	A٨	IP.	10,000	AIC		
F	.5	MAIN LUGS ONLY YES	_	120	/ 2	40	VOLTS			
TYPE	•	SOLID NEUTRAL YES	_	1 P4	ł., 3	W	IRE, 60 H	IZ		
SQ	D QO	GROUND BUS YES	_	* = GFI	BRE	ΑK	Œ	······	A A	
CKT No.	BKR	LOAD	WRE	CKT. KW	ļ	NE 2	CKT. KW	WRE		
1	20/1	RCPT- WOMEN RR	12	0.8	Х	1	0.2	12	R	
3	20/1	RCPT - MEN RR	12	0.6		*	0.2	12	R	٨
5	20/1	HAND DRYER - WOMEN	12	1.8	Х	7	0.2	12	R	$\sqrt{1}$
7	20/1	HAND DRYER - MEN	12	1.8		X	0.2	12	R	
9	20/1	** NIGHTLIGHTS	12	0.1	Х		(		S	
11	20/1	LTS - RESTROOM	12	0.3	Ī	Х			S	
13	20/1	RESTROOM WALLPACK	12	0.1	Х		1.0	12	R	
15	20/1	SPARE				Х			S	
17	20/1	SPARE	<u> </u>	***************************************	X		*****************	<u> </u>	S	
19	20/1	SPARE				Х			S	
21	20/1	SPARE			Х				5	
23	20/1	SPARE				Х			\$	



### **BOLLARD LIGHTING** CONTROL WIRING DIAGRAM E2.0 / NO SCALE

RELAY NO.	NO. POLES	AMPS	LOAD VOLTAGE	COIL VOLTAGE	LOAD DESCRIPTION	RELAY LOCATION	NOTES
R-1	2	30	120	120	BOLLARD LIGHTING	PANEL 'P1'	1



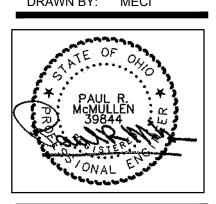
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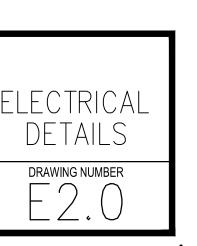
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### **ELECTRICAL SPECIFICATIONS**

### GENERAL ELECTRICAL PROVISIONS

- A. Provide electrical work as shown and specified. Furnish all material and labor to complete and leave in working order all items of work indicated, including any minor items of work necessary to provide a complete and fully operative lighting and electrical system.
- B. This contractor shall file all drawings, pay all fees, and obtain all permits and certificates of inspection relative to his work. Perform all work in accordance with applicable local and state codes and ordinances, including the regulations of the following: 1. Americans with Disabilities Act.
- 2. State Building Code.
- . National Electric Code. 4. Local building codes and ordinances.
- C. The following industry standards, specifications are also minimum requirements:
- 1. The National Electrical Manufacturer's Association Standards (NEMA). 2. The Manufacturer's Recommendation. 3. Underwriter Laboratories Incorporated
- Standards (UL). 4. American National Standards Institute (ANSI).
- D. Test all parts of electrical systems for proper ground operation and provides system free from short circuits. . Meager test all feeders and branch circuits of electrical systems.
- E. All materials and equipment shall be new and of a quality specified. Workmanship shall conform to standards of best practice and all labor employed shall be competent to do work required.

2. Test, adjust and balance all equipment and systems for proper

- F. Prior to submitting a bid, visit the site of the proposed construction to become thoroughly acquainted with existing utilities, working conditions, etc. Allowance will not be made for non-compliance with this condition after bidding.
- G. Keep the premises free from accumulation of waste material, or rubbish caused by employees or work under this Division of the specification. At the completion of the work, remove all surplus materials, tools, etc., and leave the premises 'broom-clean". Remove all temporary wiring upon
- H. After completion of work, marked-up "as-built" drawings shall be prepared and delivered to Owner. Accurately record location of all below grade
- Upon completion of project, prepare and submit to the Architect for final distribution to the Owner, two (2) copies of an Electrical Operation and Maintenance Manual in a hard cover binder. Contents of manual shall consist of final shop drawings of panelboards and electrical equipment; one set of manufacturer's original commercially printed catalog data sheets of lighting fixtures and devices; part lists; safety, maintenance and operation instructions; and final list of electrical materials installed, listing manufacturer, catalog number, and local supplier of replacement and spare parts for each item.
- J. Guarantee work executed under this Contract to be free from defective workmanship and/or materials. Should any defects develop within a period of one (1) year after final acceptance has been made, correct them and repair any damage that resulted from same at no expense whatsoever to
- K. Submit for approval manufacturer's drawings and/or catalog cuts (PDF) for all lighting fixtures, switches, panelboards, and wiring devices. Review and stamp prior to submittal.
- \_. The drawings indicate the general arrangement and locations of the electrical work. Data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the Architect in writing before the date of bid opening. If discrepancies are not reporter bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Field measure and confirm mounting heights and location of electrical equipment with respect to counters, mechanical equipment, etc. Do not scale distances off the electrical drawings; use actual building dimensions.
- M. In all cases switches controlling lighting as shown on drawings. Location indicated for switches and outlets are approximate. Owner may make minor relocations at no additional charge.
- N. Should structural elements prevent running of conduits, installation of outlets or cabinets as shown on the drawings, the necessary minor change, as determined by the Architect, shall be permitted.
- O. Perform coring, cutting, chopping, fitting, repairing and finishing of the work necessary for the installation of the equipment of this Section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the Architect. Properly fill seal. fireproof and waterproof all openings, sleeves, and holes in slabs. Furnish and install all required sleeves and inserts.
- Cooperate with other trade so that installation of electrical outlets and equipment will be properly coordinated. Check conduit, fixture, and other equipment locations with the other trades to avoid conflict with the piping, ductwork, steel, piping, beams, or other obstructions.
- Q. During construction, protect all electrical equipment and materials from construction debris, moisture absorption and metallic corrosion.
- R. Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of material of other trades.
- S. Provide Micarta nameplates to identify panelboards, disconnect switches, starters, and other major equipment.
- T. Excavating and Backfillina: 1. Do all excavating and backfilling required for execution of the work. Contractor is to meet with Soil's Engineer to discuss trenching and backfill materials and methods prior to beginning work. Backfill is to be completed with mechanical equipment as directed by Soil's
- 2. Encase conduit in concrete when noted on the drawings. 3. Patch all concrete and/or paved areas cut by excavating and refinish

5. Remove surplus earth from premises.

to match adjacent surfaces. 4. Determine the locations of all existing underground utilities and protect same from damage. Damage to any utility shall be promptly replaced and repaired. All costs for repair of damage to such services shall be paid by Contractor causing the damage.

- 1. Provide all required cutting and patching required to install new work. Cutting shall be by saw cut or core drill. Seal all wall penetrations

### ELECTRICAL SERVICE SYSTEM

U. Cutting and Patching:

- A. Furnish and install a complete 120/240 volt, 1 phase, 3 wire electrical service entrance in accordance with the Power Company's requirements and as shown on drawings.
- B. Coordinate all requirements with the Electric Company prior to bid.

### A. Extend electric circuit to all equipment requiring power.

ELECTRICAL DISTRIBUTION

- B. Safety switches shall be heavy duty type, 600 or 250 volt, with number of poles required. Safety switches for air conditioning use shall be of the non-fusible type. Switch size shall be as required by code and as indicated on the drawings. Where outside the building, the switches shall be rain tight type NEMA 3R. All switches shall be lockable. As manufactured by Square D, ITE, General Electric or Cutler Hammer.
- C. Provide branch circuit panelboard(s) as shown on drawings and as manufactured by Square D, ITE, Cutler Hammer or General Electric. Provide copper bus bars. Main breaker shall be center mounted. Provide typed circuit directory under plastic cover in each panel door. Balance final loads within 10% of all three phases. Mount panels 6'-6" on top. Panel to have front cover door.
- D. The branch breakers shall be molded case, quick-make, quick-break, with thermal magnetic trip and permanently bolted to bus bars. Short circuit ratings shall be minimum 10,000 amps, RMS system for 208 volt system, 14,000 on 480 volt system, unless otherwise stated on the drawings. Only full rated ACB's permitted, no duplex. Breakers to be 1, 2, or 3 pole as listed on the drawings.
- . Multiple pole breakers must be the common trip type. NO TIE HANDLES PERMITTED WITH SINGLE POLE BREAKERS.
- F. Provide and install Ground Fault Interrupter (GFI) circuit breakers as required and shown on the drawings. GFI breakers shall provide personnel protection from ground faults of 5 MA or greater as well as normal circuit protection. Breaker shall be self testing type.
- G. All circuit breakers serving refrigeration, A/C and/or ventilation equipment such as rooftop units, condensing units or air handling units shall be 'HACR' rated.

- A. Rigid Galvanized Steel (RGS) may be used in all areas. Intermediate Metallic Conduit (IMC) may be used in indoor locations. Use electrical Metallic Tubing (EMT) in indoor locations not in contact with earth, not in concrete slabs or concrete walls and not subject to damage. Use flexible steel conduit not exceeding 36" for indoor final connections to mechanical equipment and not exceeding 72" for recessed removable fluorescent light fixtures. Use liquid-tight flexible steel conduit not exceeding 36" for outdoor final connections to equipment or in kitchens and wet locations.
- B. Where the conduit enters outlet boxes, fixtures or cabinets, firmly fasten by double locknuts and bushings. Firmly fasten conduit to the building construction. Run exposed conduits parallel to the building lines, supported by appropriate hangers (Unistrut, T&B or Appleton) from structure. Support conduits on 5 foot intervals and within 3 feet of any box or fitting. Do not support conduits from ceiling, piping, ceiling supports, ductwork, or other conduits.
- C. Conduit connectors shall be double locknut type. UL listed and labeled, with set-screw or compression fittings.
- D. Conduit sizes shall be as required by code and as indicated or specified herein. Minimum conduit size 1/2".
- E. All empty conduit systems shall have 200 lb. test pull cord to facilitate installation of future wire.
- F. Conceal conduits and outlets within the building structure; except that conduits may be run exposed in certain areas as indicated on the drawings. Run conduit shown to be installed in cabinets, and casework directed by Architect.

### OUTLET. PULL AND JUNCTION BOXES

A. Each switch, light, receptacle or other outlets shall be provided with a code gauge, galvanized steel outlet box. Junction and pull boxes shall be code gauge, galvanized steel. Outlet boxes shall be of the one piece, knockout type, in general 4" square with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of wall. Single gang rings similar to Steel City 52020 shall be used for boxes in unfinished brick. #180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in block course.

- Unless otherwise specified, all wire shall be stranded Type THHN, THWN or XHHW copper. Service and panel feeder wiring 100 Amps or larger shall be aluminum as noted on drawings. The wires shall be color—coded. Unless otherwise required by local ordinances, ground wires shall be green, neutral wires shall be white and phase wires shall be black (Phase A), red (Phase B), for 120/240 volt. Conductors shall be minimum #12 AWG unless otherwise indicated.
- B. Do not install conductors until conduit system is complete. Use Mineralac #100 or equivalent as a lubricant to facilitate the installation of the conductors in the conduit system.
- C. All 1 phase branch circuits shall consist of 1 phase conductor and 1 neutral (120V) or 2 phase conductors (240V). All 1 phase branch circuits shall consist of 2 phase conductors. When two single phase circuits are shown to be combined, these circuits may share a single neutral.
- D. Install a green equipment wire in each panel feeder or branch circuit. Conduit and raceway systems shall not be used for equipment grounding
- E. Grounding shall be in accordance with the latest edition of the National
- F. Wire all motors to conform with manufacturers' recommendations and with applicable codes. Provide necessary material, including wire, conduit, fittings, etc., required to connect motor. Motors, controls, etc., shall be furnished by the supplier of the driven equipment. Verify equipment location and sizes with the trade supplying the motor before installing the

### METAL CLAD CABLE

- A. The Contractor, at his option, may use metal clad cable type "MC" (no BX or Type AC acceptable) for branch circuits when following conditions are
- 1. Approved by local code jurisdiction. 2. Maximum 20 AMP branch circuits.
- 3. #12 or #10 stranded copper conductors with THHN insulation including an insulated ground. 4. Installed concealed above ceilings or in interior walls in dry locations
- only. (Exposed 'MC' cable will not be allowed.) 5. Installed in strict compliance with latest edition of National Electric Code and as described herein.
- B. Metal clad cable shall be interlocking or continuous galvanized steel or aluminum sheath type with continuous ground wire (using sheath as ground is unacceptable), #12 or #10 stranded copper conductor, 600 volt THHN insulation rated at 90°C, UL labeled.
- References and Ratings for Cable: . UL 83, 1479, 1569 and 1581.
- Shall meet all applicable OSHA and HUD requirements. 3. Shall be UL rated for installation in environmental air handling space. 4. Shall be rated for 3-hour firewall penetration.
- Connectors shall be those specifically designed for use with MC cable
- (Romex and BX connectors are not acceptable). 'MC' cable shall be installed in strict compliance with all applicable articles
- of the National Electric Code and as described herein. 'MC' cable shall be installed in a neat and orderly manner, perpendicular
- and parallel to building lines. Cable shall be installed in building concealed above ceiling or in interior walls only. No exposed 'MC' cable will be allowed.
- l. In any room, including mechanical, electrical, service rooms, stairwells, etc., where wiring cannot be concealed, it must be installed in conduit.
- Where 'MC' cable is installed in accessible attic spaces and run across the top of joists, studs or rafters, the cable shall be protected by quard strips in accordance with the National Electric Code. Guard strips are not required if the 'MC' cable is installed parallel to the side rafters, studs, or
- Where 'MC' cable is installed above accessible ceilings, the cable must be supported at code required intervals.
- . 'MC' cable may be supported from conduit supports or provide independent support wires from structure with clips to secure cable. Clips shall be designed and manufactured for this use.
- 'MC' cable shall not be supported from conduits, piping, ductwork, ceiling grid wires, etc.
- 1. DO NOT allow 'MC' cable to lay on ceiling grid system or be in contact
- with any piping or ductwork. DO NOT expose 'MC' cable on wall at surface mounted panelboard. Where 'MC' cable is used for homerun circuit(s) to a surface mounted panelboard, one of the two following methods shall be used and shall be
- consistent throughout the building. 1. Provide 'EMT' conduits from panelboard to above ceiling. Install 'MC' cable in these conduits from above ceiling to panel. 2. Provide wire in 'EMT' conduit from panel to above ceiling, extend to first splice point in circuit. At that location 'EMT' conduit with wire may be converted to 'MC' cable.
- Where 'MC' cable penetrates fire rated construction, provide fire stopping per code and as approved by the local authority having jurisdiction.
- At lighting fixture, device or equipment being fed by 'MC' cable, provide an appropriate junction or outlet box for wiring connections and mounting. 'MC' cable punched through wall, ceiling or into cabinetry is unacceptable.

### WIRING DEVICES

- . Light switches shall be toggle quiet AC type, 120/277 volts, 20 amp specification grade commercial series, contacts shall be silver alloy and switch shall have one piece Lexan lever and cam. Terminals shall be spring loaded, color coded and suitable for side and back wiring. Hubbell #CSB120 series or equal.
- General purpose duplex receptacles shall be automatic grounding type, NEMA 5-20R configuration, finder-grove face, 20 amp commercial, specification grade, with provisions for back wiring by means of spring-staked screwed or side wiring with captive held binding screws, shall be constructed of arc-resistant material. Hubbell #BR20 series or
- Ground fault interrupting (GFI) type receptacles shall be self—contained, automatic grounding type, NEMA 5—20R configuration, specification grade, with test and reset buttons and self testing. Hubbell #GFR-ST20 or
- General purpose duplex receptacles with USB port shall be automatic grounding type, NEMA 5-20R configuation, 20 amp commercial specification grade, with (1) Type- A and (1) Type- C USB ports, weather-resistant. Hubbell #USB20AC5 or equal.
- Locking receptacles shall be NEMA configuration of proper size for loads indicated on the plans and as required for equipment served. Coordinate requirements with the equipment supplier prior to rough-in.
- All devices shall be ivory in color.
- G. All wall outlet plates to be smooth satin finished stainless steel 302/304. Provide type of faceplates to match devices.
- All non-locking 15 amp and 20 amp, 125 volt and 250 volt receptacles in damp or wet locations shall be listed as weather resistant.
- Exterior outlets shall be complete with weatherproof plate with hinged cover or covers in accordance with NEC 406.9(B) and a neoprene gasket between the plate, box and mounting surface. Red Dot CKM series or

### 16350 LIGHTING

- A. Furnish and install all lighting fixtures as indicated on drawings. Provide contactors and controls as indicated.
- B. Provide all necessary fittings required to support all fixtures, as well as wood or metal supports for surface and/or pendant fixtures on suspended ceilings. All fixtures are to be supported independent of ceiling system.
- . Provide all lamps as indicated on drawings.
- . Locate and aim adjustable fixtures as directed by the Owner's

### 16500 SITE LIGHTING

- All poles for parking lot or street lighting shall be: Secured to concrete bases as detailed.
- Installed absolutely vertical. 3. Have bolt-base covers.
- 4. Have hand-hole for access to wiring. 5. Have independent fusing for each fixture or head.
- 6. Individually ground each pole to 10' ground rod. . Furnish all incidental mounting hardware as required for the fixture's
- specific location or mounting arrangement.
- . Field aim all adjustable flood lights at night in presence of the Architect.
- D. Set all time clocks as directed by the Owner.
- Provide excavation and backfill to install the conduit(s) and maintain a minimum depth of 24" B.F.G.

END OF SECTION

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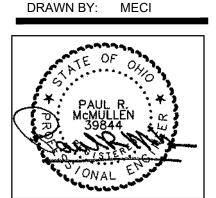
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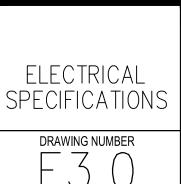
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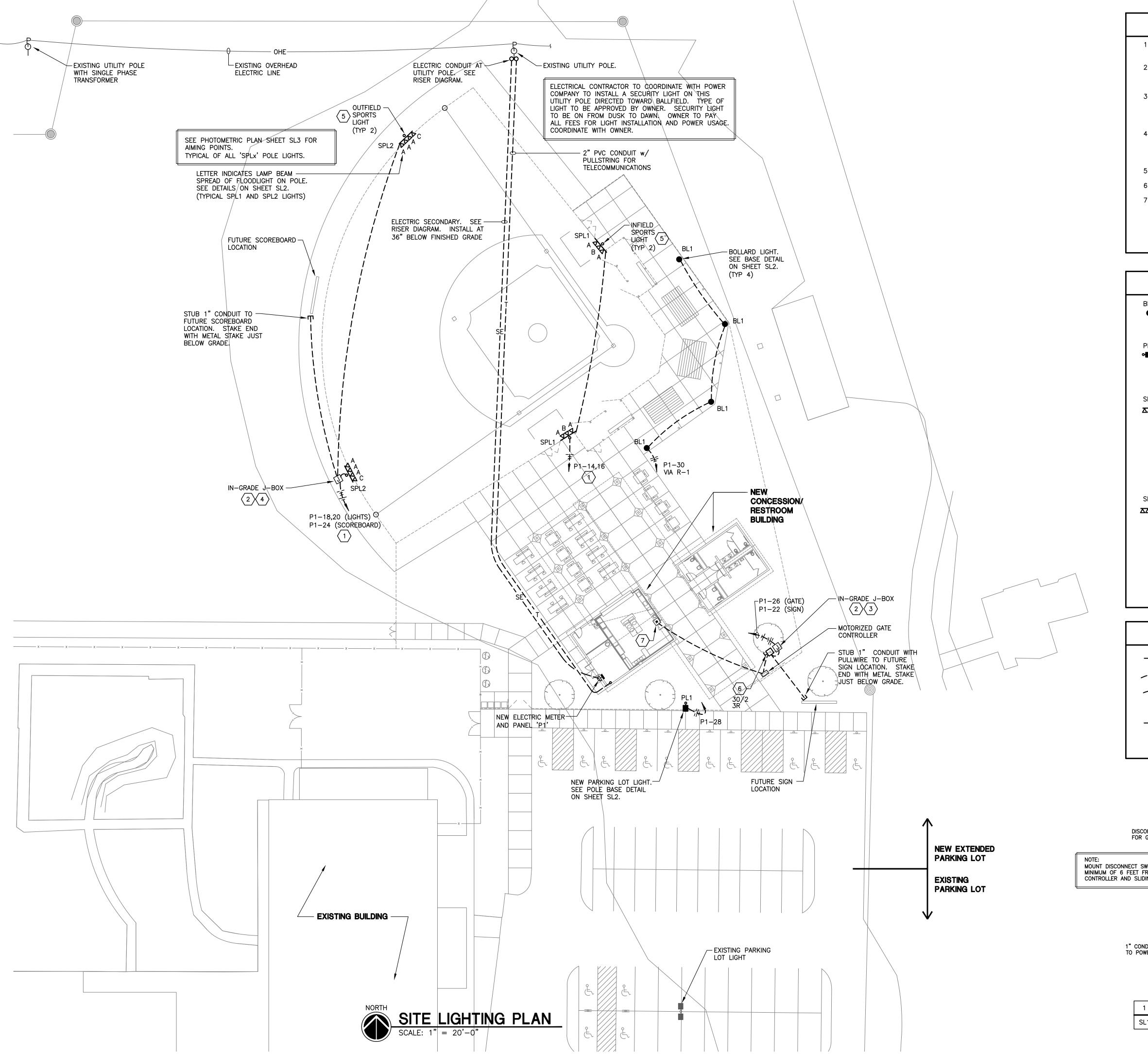
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ISSUE MARK 4-5-21 ADDENDUM 2 | /2 | 5-7-2|







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- 1. RUN SPORTS LIGHT CIRCUIT THRU DISCONNECT SWITCH IN STORAGE ROOM. SEE SHEET E1.0.
- IN-GRADE J-BOX. COMPOSITE HOUSING WITH 'ELECTRIC' EMBOSSED ON GASKETED LID, SIZED AS REQUIRED. O.Z.GEDNEY OR EQUAL
- 3. RUN CIRCUITS SHOWN TO J-BOX. EXTEND GATE CIRCUIT TO GATE CONTROLLER THRU DISCONNECT SWITCH. COIL 18" SIGN WIRING IN J-BOX FOR FUTURE SIGN USE AND TERMINATE ENDS FOR SAFETY.
- RUN CIRCUITS SHOWN TO J-BOX. EXTEND SPORTS LIGHTING CIRCUIT TO LIGHTS. COIL 24" SCOREBOARD WIRING IN J-BOX FOR FUTURE SCOREBOARD USE AND TERMINATE ENDS FOR SAFETY.
- 5. SEE LIGHTING DETAILS ON SHEET SL2.
- 6. POST MOUNTED DISCONNECT SWITCH. SEE DETAIL THIS SHEET.
- MOTORIZED GATE CONTROL PUSHBUTTON. OPEN—CLOSE—STOP. PROVIDE 4 WIRE, 3 BUTTON DEVICE COMPATIBLE WITH GATE CONTROLLER. COORDINATE WITH G.C. INSTALL INSIDE DOOR IN CONCESSION AT LOCATION WHERE PUSHBUTTON OPERATOR HAS DIRECT LINE OF SIGHT TO MOVING GATE.

### LIGHT FIXTURE SCHEDULE

- LIGHT BOLLARD, 28" HIGH WITH DOME TOP, 41 WATT LED LAMP, 3500K, COLOR BY ARCHITECT, 120/277 VOLT.

  LIGMAN LIGHTING #UCO-10117-41W-1
  W35-COLOR-120/277V
- PARKING LOT LIGHT WITH 2 PANELS, FULL CUTOFF, 70 CRI, 4000K, 120/277 VOLT, TYPE 4 LIGHT DISTRIBUTION, BRONZE COLOR, WITH PHOTOCELL ON A 25' SQUARE STEEL POLE. 120V, 143W.

LUMARK #PFPRV-1-C40-T4-25-9-PER

- SPL1
  SPORTS LIGHT, WHITE LED, GLARE AND CUTOFF CONTROL VIA
  HYBRID REFLECTOR AND 'TIR' OPTICAL SYSTEM, 70 CRI, 4000K,
  120/277 VOLT, VARIOUS NEMA BEAM SPREADS, SEE MODEL
  NUMBERS BELOW. BRONZE COLOR, WITH PHOTOCELL ON A 35'
  ROUND TAPERED STEEL POLE WITH THREE (3) YOKE ARM
  MOUNTING. FINISH LUMINAIRES, YOKE AND POLE IN BLACK.
  240V, 320W.
  - EPHESUS SPORTS LIGHTING
  - A: #EPH-LS-08-0320L-BLK-40-70-4S-C04-HV-NC-LY
    A: #EPH-LS-08-0320L-BLK-40-70-4S-C04-HV-NC-LY
  - B: #EPH-LS-08-0320L-BLK-40-70-5S-C04-HV-NC-LY
- SPL2
  SPORTS LIGHT, WHITE LED, GLARE AND CUTOFF CONTROL VIA
  HYBRID REFLECTOR AND 'TIR' OPTICAL SYSTEM, 70 CRI, 4000K,
  120/277 VOLT, VARIOUS NEMA BEAM SPREADS, SEE MODEL
  NUMBERS BELOW. BRONZE COLOR, WITH PHOTOCELL ON A 35'
  ROUND TAPERED STEEL POLE WITH FOUR (4) YOKE ARM
  MOUNTING. FINISH LUMINAIRES, YOKE AND POLE IN BLACK.

240V, 320W (EACH).
EPHESUS SPORTS LIGHTING

EPHESUS SPORTS LIGHTING

A: #EPH-LS-08-0320L-BLK-40-70-4S-C04-HV-NC-LY

A: #EPH-LS-08-0320L-BLK-40-70-4S-C04-HV-NC-LY

A: #EPH-LS-08-0320L-BLK-40-70-4S-C04-HV-NC-LY
A: #EPH-LS-08-0320L-BLK-40-70-4S-C04-HV-NC-LY
C: #EPH-LS-08-0320L-BLK-40-70-7F-C04-HV-NC-LY

### SITE LIGHTING LEGEND

— SE— SECONDARY ELECTRIC

\_\_\_\_ WIRING BELOW GROUND

HOMERUN TO PANELBOARD

HOMERUN TO PANELBOARD

J JUNCTION BOX

CODED NOTE SYMBOL

— CONDUIT STUB

4" SQUARE GALVANIZED DISCONNECT SWITCH -STEEL POST WITH CAP FOR GATE CONTROLLER STUB CONDUIT UP POST ON BACK SIDE FROM DISCONNECT SWITCH AND CAP WATERTIGHT MOUNT DISCONNECT SWITCH/POST MINIMUM OF 6 FEET FROM GATE CONTROLLER AND SLIDING GATE. - 3/4" SPARE CONDUT TO GATE CONTROLLER. STUB UP INSIDE CONTROLLER FOR POSSIBLE CONNECTION FOR OPERATOR PUSHBUTTON. 1" CONDUT WITH WIRING -1" CONDUT WITH WIRING TO POWER SOURCE TO GATE CONTROLLER └ CONCRETE BASE

MOTORIZED GATE CONTROLLER

1 DISCONNECT SWITCH MOUNTING

SL1 NTS

# ALL ACCESSIBLE SPORTS COMPLEX AND P FOR EST ROSE SCHOOL 795 COLLEGE AVE. LANCASTER, OHIO 43130

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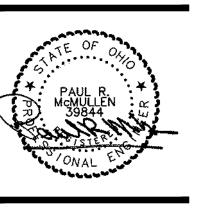
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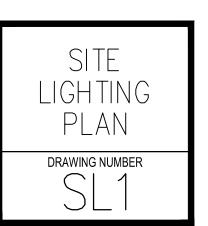
MCMULLEN ENGINEERING CO., INC.

MECHANICAL AND ELECTRICAL ENGINEERS
outh State Street, Westerville, Ohio 43081
895–9408 FAX:614–895–9450
II: meci@mcmulleneng.com
http://www.mcmulleneng.com

ISSUE MARK DATE
PERMIT 4-5-2I

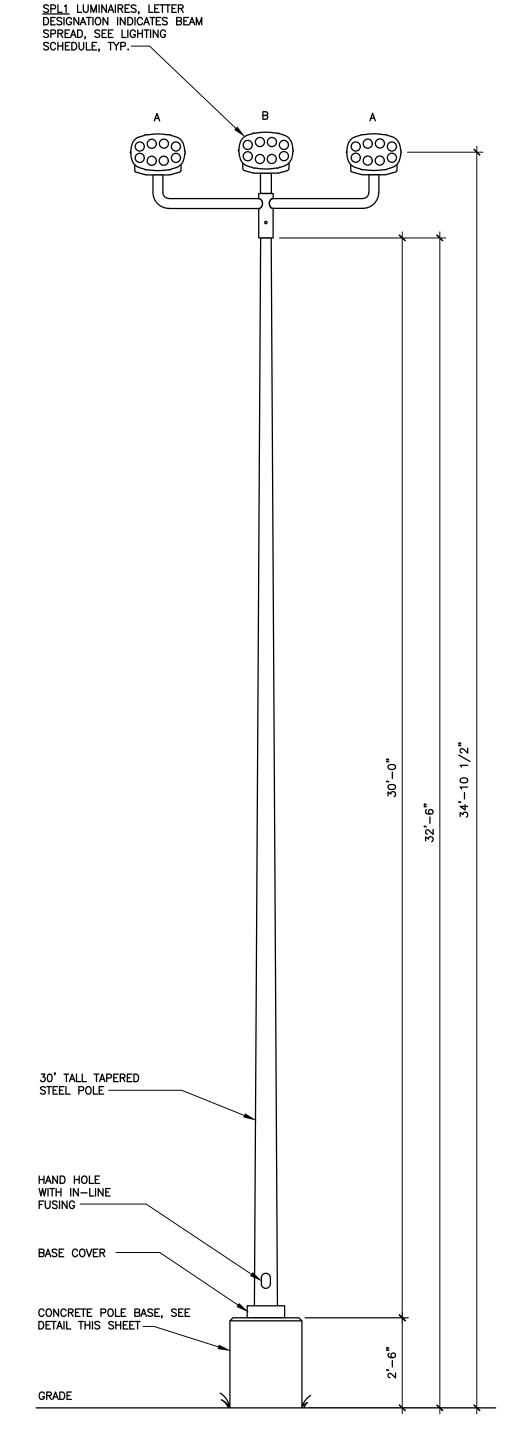
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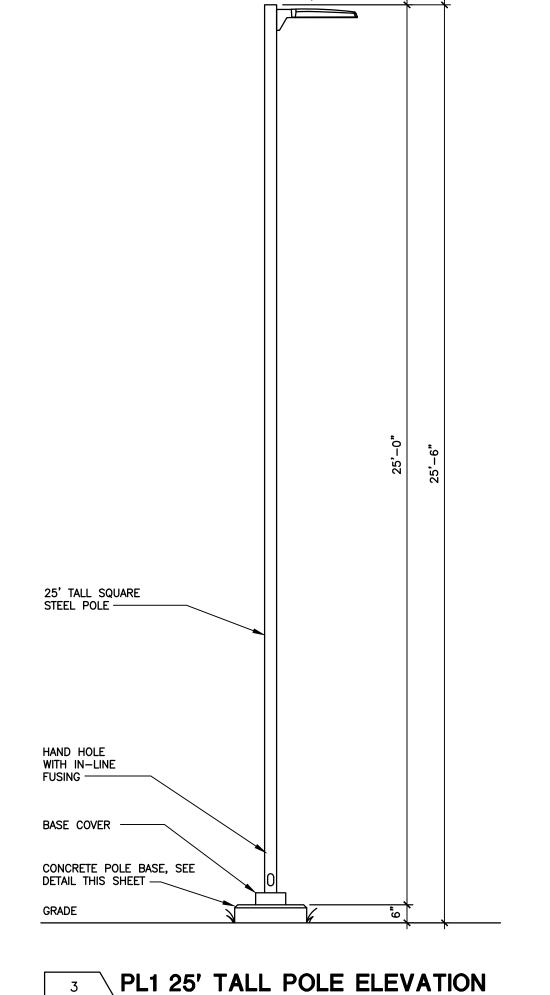


5 SPL2 35' TALL POLE ELEVATION
SL2 NO SCALE

SEE SHEET SL1 FOR FIXTURE LOCATIONS. THIS ELEVATION IS FOR RIGHT OUTFIELD LOOKING FROM HOME PLATE. LEFT OUTFIELD FIELD IS MIRRORED.

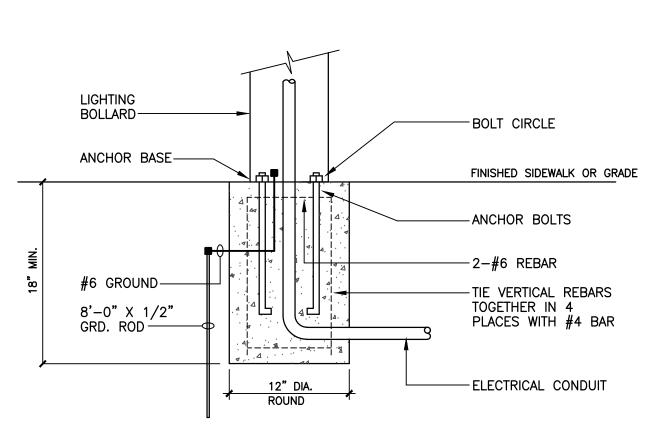


4 SPL1 35' TALL POLE ELEVATION
SL2 NO SCALE

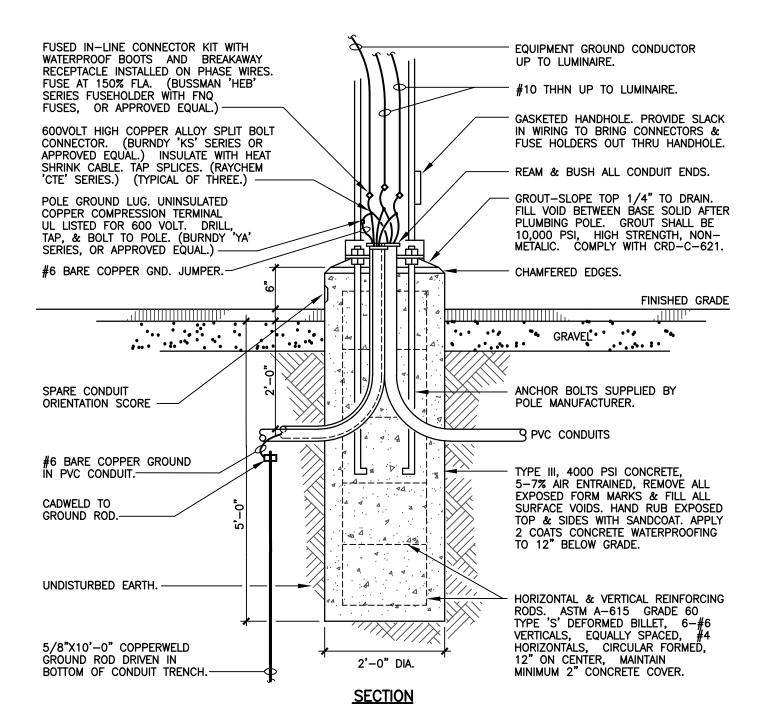


LUMINAIRE TYPE <u>PL1</u> —

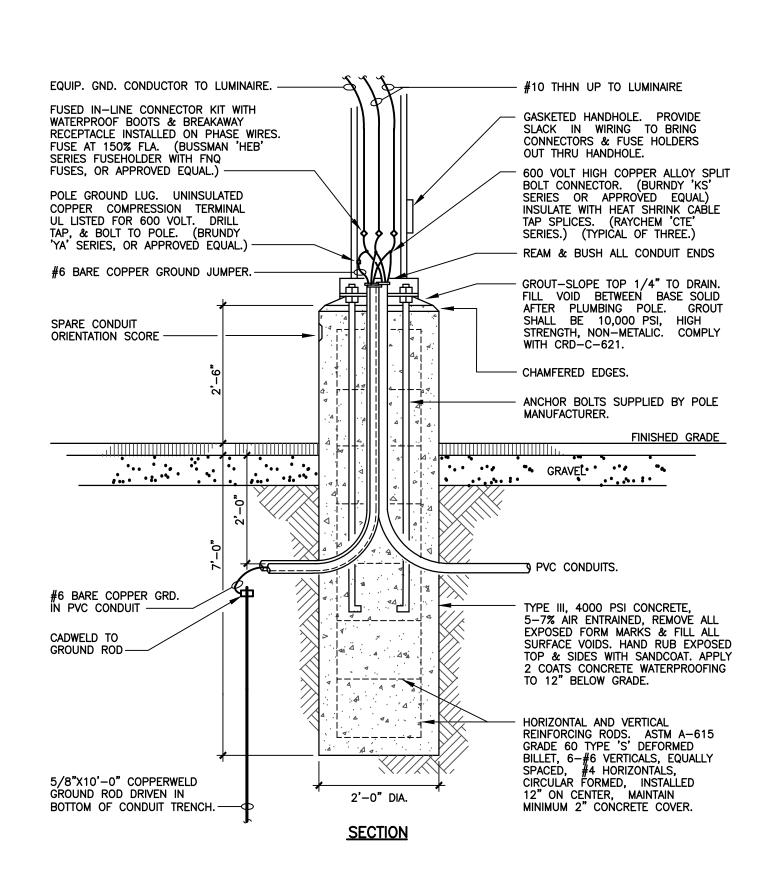
SL2 / NO SCALE



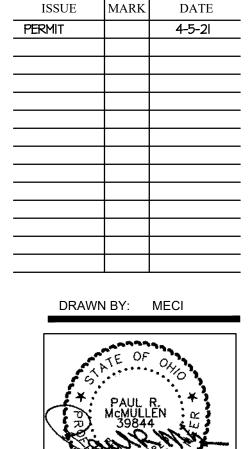
6 'BL1 'BOLLARD BASE DETAIL
SL2 NTS



1 'PL1' POLE BASE DETAIL
SL2 NTS BASE 6' ABOVE GRADE



2 SPL1 & SPL2 POLE BASE DETAIL
SL2 NO SCALE



NG CO., INC.
AL ENGINEERS
Ohio 43081
-895-9450

Q

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**D** 

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SITE LIGHTING DETAILS DRAWING NUMBER

