# **CODE INFORMATION**

- 2015 INTERNATIONAL BUILDING CODE W/ AMENDMENTS
- 2015 INTERNATIONAL MECHANICAL CODE w/ AMENDMENTS 2014 NATIONAL ELECTRIC CODE (N.E.C.) w/ AMENDMENTS
- 2015 INTERNATIONAL PLUMBING CODE (INCLUDING APPENDIX CHAPTERS C AND F)
- 2014 ILLINOIS STATE PLUMBING CODE 2015 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL FUEL GAS CODE BY REFERENCE 2018 INTERNATIONAL ENERGY CONSERVATION CODE W/ ILLINOIS STATE AMENDMENTS
- 2000 LIFE SAFETY CODE, NFPA #101
- ILLINOIS ACCESSIBILITY CODE CURRENT EDITION

# PROJECT DATA

2,13Ø SQ. FT.

2,13Ø SQ. FT.

NFPA 13 SYSTEM COMPLIANT

JURISDICTION: OAK BROOK, ILLINOIS, DUPAGE COUNTY OCCUPANCY CLASSIFICATION (PLUMBING): U - UTILITY

OCCUPANCY CLASSIFICATION (EGRESS): U - UTILITY BUILDING HEIGHT: 21'-9 3/4"

TYPE OF CONSTRUCTION: V-B

**OCCUPANT LOADS** 

FIRE SUPPRESSION:

AREA OF CONSTRUCTION

BUILDING AREA:

**EGRESS: OCCUPANT LOADS** 

(1/300 SQ. FT.) 4 OCCUPANTS RESTROOMS (\* FIXTURES ONLY) **OCCUPANTS** TOTAL OCCUPANTS 22 OCCUPANTS

FIRE RESISTANT RATING REQ. FOR BUILDING ELEMENTS - IBC TABLE 601

STRUCTURAL FRAME TENANT SPACE SEPARATION ROOF CONSTRUCTION Ø HR NTERIOR BEARING WALLS Ø HR CEILING CONSTRUCTION

Ø HR

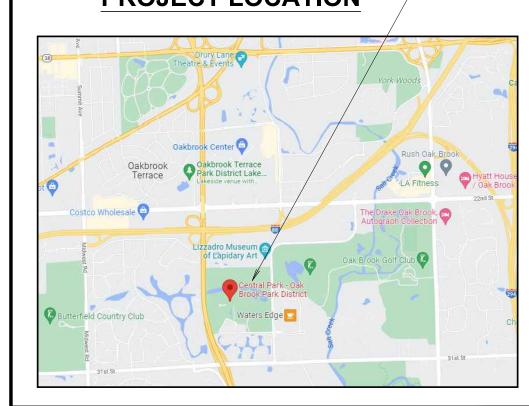
NON BEARING WALLS AND PARTITIONS

EXTERIOR BEARING WALLS

EXTERIOR Ø HR

# **VICINITY MAP**

# PROJECT LOCATION



# **LOCATION MAP**

# PROJECT LOCATION-



# **New Support Building for:** OAK BROOK PARK DISTRICT

1315 Kensington Road Oak Brook, Illinois

# **GENERAL NOTES**

## CODES, REFERENCES & MISCELLANEOUS NOTES

- ALL CONSTRUCTION AND MATERIALS USED SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF ALL APPLICABLE CODES AS LISTED ON THIS SHEET AND ALL OTHER APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS HAVING JURISDICTION.
- JURISDICTIONAL APPROVAL OF ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DOCUMENTS IS PROVIDED BY ARCHITECT. G.C. TO OBTAIN AND PAY FOR FINAL PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
- 3. REVIEW DOCUMENTS, VERIFY DIMENSIONS / FIELD CONDITIONS, AND CONFIRM WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
- 4. ALL WORK TO BE PERFORMED BY SKILLED CRAFTSMEN CAPABLE OF PROVIDING THE DEGIGN INTENT. FINAL GAY OF INSTALLED QUALITY IS AT THE SOLE DISCRETION OF THE DESIGN PROFESSIONAL.
- 5. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR
- 6. COORDINATE WORK WITH OWNER, INCLUDING SCHEDULING TIME, LOCATIONS FOR DELIVERIES AND BUILDING ACCESS.
- OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN
- CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
- 8. PROVIDE FOR COORDINATION OF TELECOMMUNICATIONS, DATA, SECURITY SYSTEM, AND MUSIC INSTALLATIONS. 9. MAINTAIN EXIT9, EXIT LIGHTING, FIRE PROTECTION DEVICES AND ALARMS IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- 10. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION.
- 11. G.C. TO COORDINATE & PROVIDE BUILDING AIR LEAKAGE TEST IN ACCORDANCE WITH SECTION C4025 & SHALL BE TESTED AT A 0.3 INCH WATER GAUGE AND HAVE BETTER THAN 0.40 CFM/SQ. FT.

## FIRE PROTECTION NOTES

- WHEN REQUIRED PER THE PROJECT DATA TABLE, G.C., TO FURNISH A FIRE SUPPRESSION DESIGN SUBMITTAL FOR JURISDICTIONAL APPROVAL. FIRE SUPPRESSION SYSTEM(S) SHALL BE DESIGNED BY AN N.F.S.A. CERTIFIED DESIGNER AND INSTALLED BY AN N.F.P.A. LICENSED INSTALLER. G.C. RESPONSIBLE FOR COORDINATION OF ARCHITECTURAL, STRUCTURAL, AND M.E.P. DOCUMENTS. SUBMIT SHOP DRAWINGS FOR OWNER /
- 2. G.C. TO FURNISH A FIRE ALARM DESIGN SUBMITTAL FOR JURISDICTIONAL APPROVAL. FIRE ALARM SYSTEM SHALL BE DESIGNED BY A N.I.C.E.T. CERTIFIED PROFESSIONAL AND INSTALLED BY A LICENSED CONTRACTOR. G.C. RESPONSIBLE FOR COORDINATION OF ARCHITECTURE STRUCTURAL AND M.E.P. DOCUMENTS, SUBMIT SHOP DRAWINGS FOR OWNER / ARCHITECT REVIEW
- ALL ELEMENTS OF ASSEMBLIES PENETRATING THROUGH FIRE RESISTANCE RATED FLOORS, CEILINGS, OR WALLS, SHALL NOT LESSEN THE FIRE REGISTANCE RATING OF THE ASSEMBLY. THE GENERAL CONTRACTOR SHALL VERIFY THAT ALL PENETRATIONS ARE FIRE STOPPED WITH APPROPRIATE MEASURES. SEE M.E.P. SHEETS FOR EXACT LOCATIONS OF SUCH PENETRATIONS AND ADDITIONAL INFORMATION.
- 4. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN 15 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING AND ADDITIONAL FIRE EXTINGUISHERS AS REQUIRED BY LOCAL FIRE DEPARTMENT OR BUILDING INSPECTOR.
- 5. INTERIOR WALL AND CEILING FINISHES SHALL NOT EXCEED AN ENDPOINT FLAME SPREAD RATING OF:

EXIT ENCLOSURES AND EXIT PASSAGEWAYS - A | CLASS A: FLAME SPREAD Ø - 25 AND SMOKE-DEVELOPMENT Ø-45Ø. A | CLASS B: FLAME SPREAD 26 - 15 AND SMOKE-DEVELOPMENT Ø-45Ø. A | CLASS C: FLAME SPREAD 16 - 200 AND SMOKE-DEVELOPMENT 0-450. ROOMS AND ENCLOSED SPACES -

- 6. EXTERIOR GRADE THERMAL AND INTERIOR GRADE SOUND INSULATION MATERIALS AND FOAM PLASTIC BOARD INSULATION A. ASTM C 578, WITH MAXIMUM FLAME-SPREAD AND SMOKE DEVELOPED INDEXES OF 15 AND 450 RESPECTIVELY ASTM C 665, TYPE III (BLANKETS WITH REFLECTIVE MEMBRANE FACING) CLASS A (MEMBRANE-FACED SURFACE WITH A FLAME-SPREAD INDEX OF 25 OR LESS) CATEGORY I (MEMBRANE AS A VAPOR BARRIER) FACED WITH POLYPROPYLENE-SCRIM-KRAFT VAPOR
- 1. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, GAS OR HAZARDOUS SUBSTANCES SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- 8. WOOD BLOCKING SHALL BE FIRE-TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.

# C. CONSTRUCTION NOTES

- REFER TO DRAWING G12 FOR GRAPHIC SYMBOLS, ABBREVIATIONS AND ACCESSIBILITY (ADA) INFORMATION.
- REFER TO PROJECT MANUAL AND DOOR SCHEDULE FOR DOOR AND FINISH HARDWARE INFORMATION.
- 3. PARTITIONS ARE DIMENSIONED TO FACE OF FINISH UNLESS NOTED OTHERWISE.
- 4. DO NOT SCALE DRAWINGS. ALL NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. NOTIFY ARCHITECT IMMEDIATELY WHERE
- 5. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
- 6. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.
- 1. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE IN COMPLIANCE WITH IBC SECTION 23/04.1/05. A COPY OF THE CODE CAN BE ATTAINED AT THE FOLLOWING ADDRESS: https://codes.iccsafe.org/content/BC2@l5/chapter-23-wood#BC2@l5\_Ch23\_Sec23@4.l@.5
- 8. SEE SPECIFICATIONS MANUAL FOR SPECIALIZED INSPECTIONS PROVIDED BY G.C.

# **CONTACT INFORMATION**

## ARCHITECT

CHARLES VINCENT GEORGE ARCHITECTS, INC. 1245 E DIEHL ROAD, SUITE 101 NAPERVILLE, IL 60563 PH: 630-351-2023 FX: N/A

CONTACT: JEFF LIETZ E-MAIL: JLIETZ@CVGARCHITECTS.COM DESIGN FIRM NO: 184-000544

## MEP ENGINEER

WT GROUP 2675 PRATUM AVENUE HOFFMAN ESTATES, IL 60192 PH: 224-293-6333 FX: N/A CONTACT: COREY STALLINGS E-MAIL: CSTALLINGS@WTGROUP.COM

DESIGN FIRM NO:

## <u>CIVIL ENGINEER</u>

DESIGN FIRM NO:

ENGINEERING RESOURCE ASSOCIATES, INC. 35701 WEST AVENUE, SUITE 150 WARRENVILLE, IL 60555 PH: 630-393-3060 FX: N/A CONTACT: JOHN MAYER E-MAIL: JMAYER@ERACONSULTANTS.COM

# <u>OWNER</u>

1450 FOREST GATE ROAD OAK BROOK, IL 6*0*523 PH:: 630-645-9540 CONTACT: BOB JOHNSON E-MAIL: BJOHNSON@OBPARKS.ORG DESIGN FIRM NO: N/A

MCCLUSKEY ENGINEERING CORPORATION 1887 HÌGH GROVE LANE NAPERVILLE, IL 60540 PH.: 630-717-5399 CONTACT: SCOTT STRNAD E-MAIL: SSTRNAD@MCCLUSKEENG.COM

## STRUCTURAL ENGINEER

OAK BROOK PARK DISTRICT

DESIGN FIRM NO:

# charles vincent george

ARCHITECTS

630.357.2023

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Naperville, Illinois 60563

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	DESCRIPTION
01/06/2023	ISSUE FOR BID
	01/06/2023

CERTIFICATION STATEMENT I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH ALL APPLICABLE CODES INCLUDING THE ENVIRONMENTAL BARRIERS ACT (410 ILCS) AND THE ILLINOIS ACCESSIBILITY CODE (71 ILL. ADM. CODE 400)."

**DESIGN PROFESSIONAL** 

INDEX OF DRAWINGS

**ISSUE DESCRIPTION:** 

**ISSUE DATE:** 

**GENERAL** 

SHT DESCRIPTION

GEOMETRY PLAN

EROSION CONTROL PLAN

ENLARGED FLOOR PLAN

EXTERIOR ELEVATIONS

INTERIOR ELEVATIONS

BUILDING SECTION & DETAILS

BUILDING SECTION & DETAILS

BUILDING SECTION & DETAILS

DOOR & WINDOW SCHEDULE

DOOR & WINDOW DETAILS

SØ.Ø GENERAL STRUCTURAL NOTES

SO.OA GENERAL STRUCTURAL NOTES

FOUNDATION PLAN

ROOF FRAMING PLAN

MECHANICAL PLAN

SCHEDULES AND DETAILS

SCHEDULES AND DETAILS

CONCRETE SECTIONS AND DETAILS

ROOF FRAMING SECTIONS & DETAILS

ROOF FRAMING SECTIONS & DETAILS

UNDERGROUND PLUMBING PLAN

ABOVE GROUND PLUMBING

ELECTRICAL POWER PLAN

ELECTRICAL LIGHTING PLAN ELECTRICAL DETAILS

ROOF PLUMBING PLAN

P2.2 PLUMBING DIAGRAMS

MECHANICAL SCHEDULES, DETAILS, AND NOTES

PLUMBING DETAILS, NOTES, AND SPECIFICATIONS

REFLECTED CEILING PLAN

UTILITY PLAN GRADING PLAN

C-6 GENERAL NOTES

**ARCHITECTURAL** 

FLOOR PLAN

ROOF PLAN

C-7 DETAILS

**STRUCTURAL** 

**MECHANICAL** 

PLUMBING

**ELECTRICAL** 

COVER SHEET & PROJECT INFORMATION

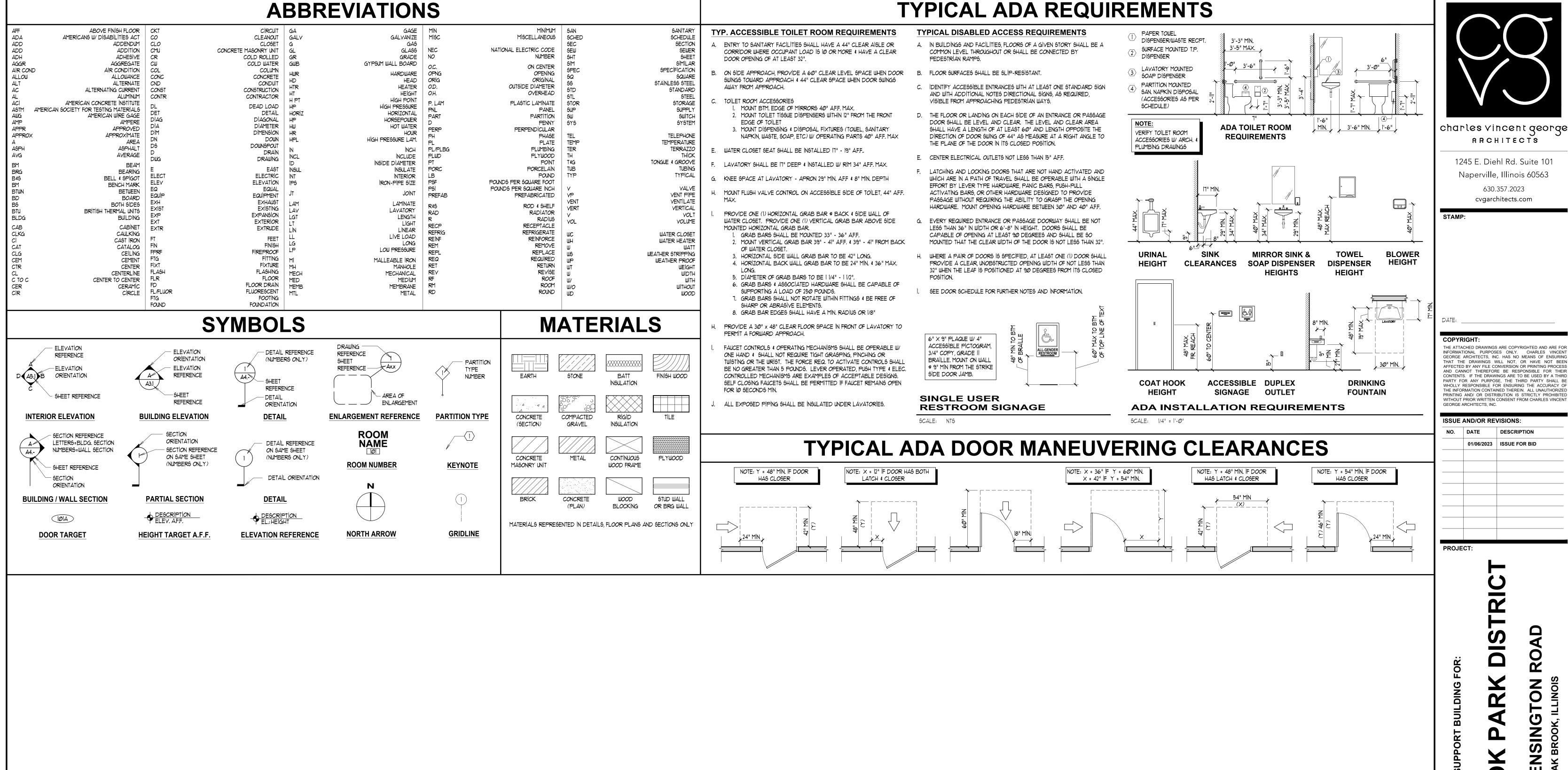
EXISTING CONDITIONS AND DEMOLITION PLAN

**CIVIL - UNDER SEPARATE COVER** 

CODE COMPLIANCE, ABBREVIATIONS & SYMBOLS

**COVER SHEET** 

2022-053 06/24/2022 PROJECT MGR: DRAWN BY: G1.1 JBL DRAWING FILE PATH: M: /2017 / DRAWINGS /

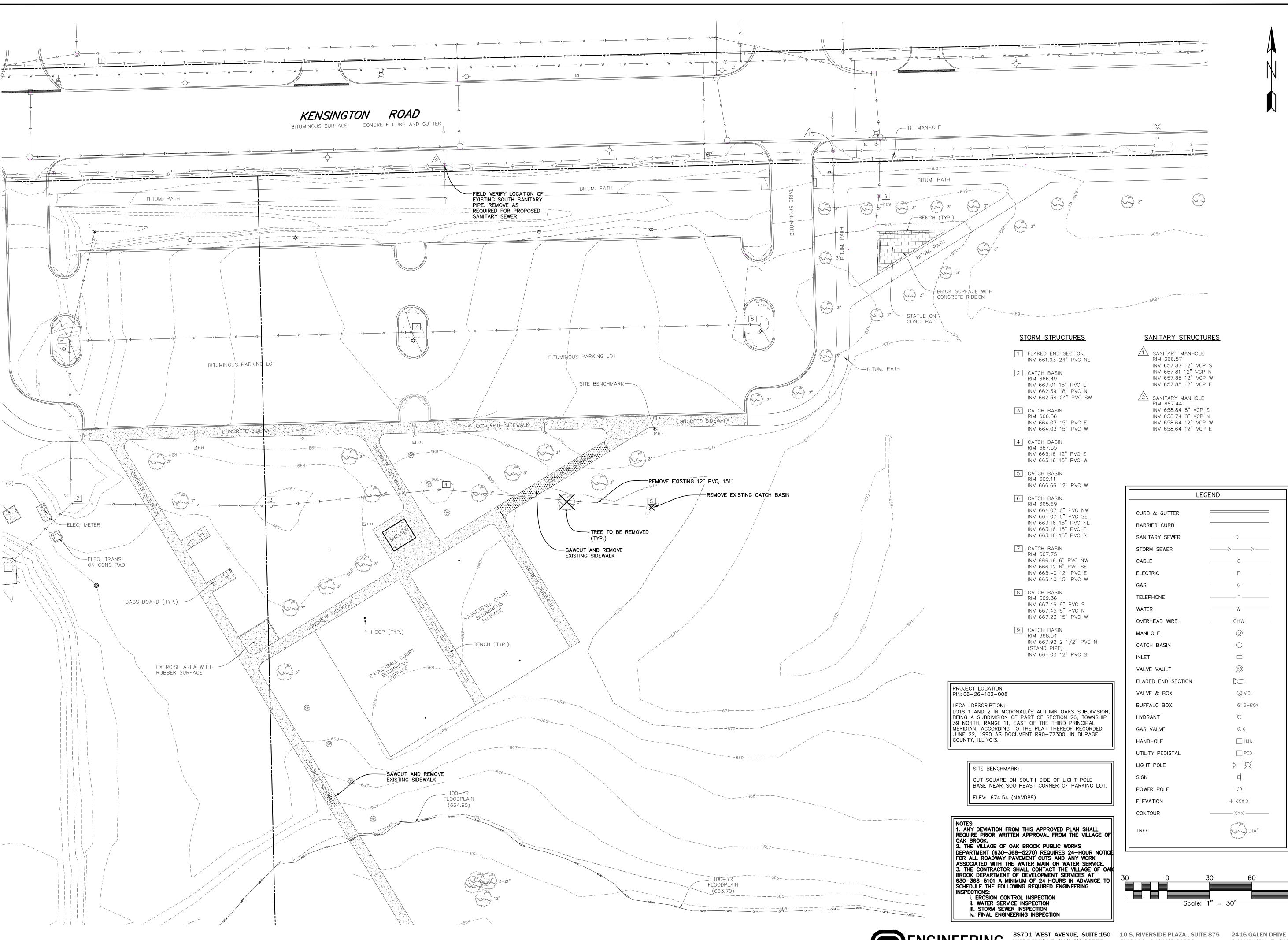


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CODE COMPLIANCE, ABBREVIATIONS & SYMBOLS

DATE: <b>06/2</b> 4	4/2022	PROJECT # <b>2022-053</b>	
PRINCIPAL:	BFG	SHEET:	
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M:/2017/DRAWING CODE COMPLIANCE			





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NO.	DATE	DESCRIPTION
1	07/29/2022	ISSUE FOR PERMIT & BII
2	10/04/2022	PERMIT REVISIONS
3	10/19/2022	PERMIT REVISIONS

PROJECT:

**EXISTING CONDITIONS** AND DEMOLITION PLAN

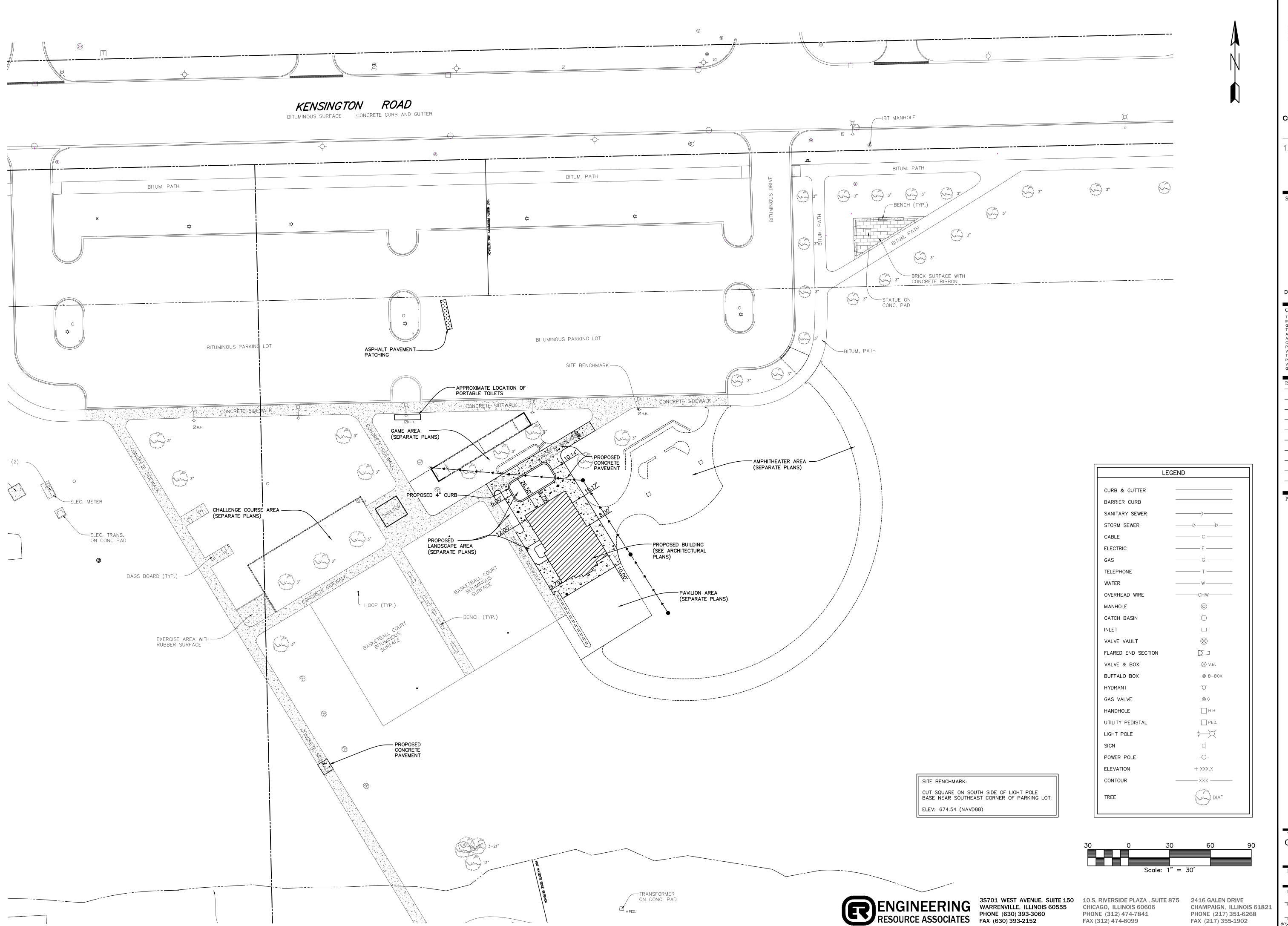
	DATE: 07/292022		PROJECT # 2022-053
	PRINCIPAL:	JM	SHEET:
21	PROJECT MGR:	DRAWN BY:	
	JM	ΑZ	C-1
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ENGINEERING WARRENVILLE, ILLINOIS 60555 PHONE (630) 393-3060

CHICAGO, ILLINOIS 60606 PHONE (312) 474-7841 FAX (312) 474-6099

CHAMPAIGN, ILLINOIS 6182 PHONE (217) 351-6268 FAX (217) 355-1902





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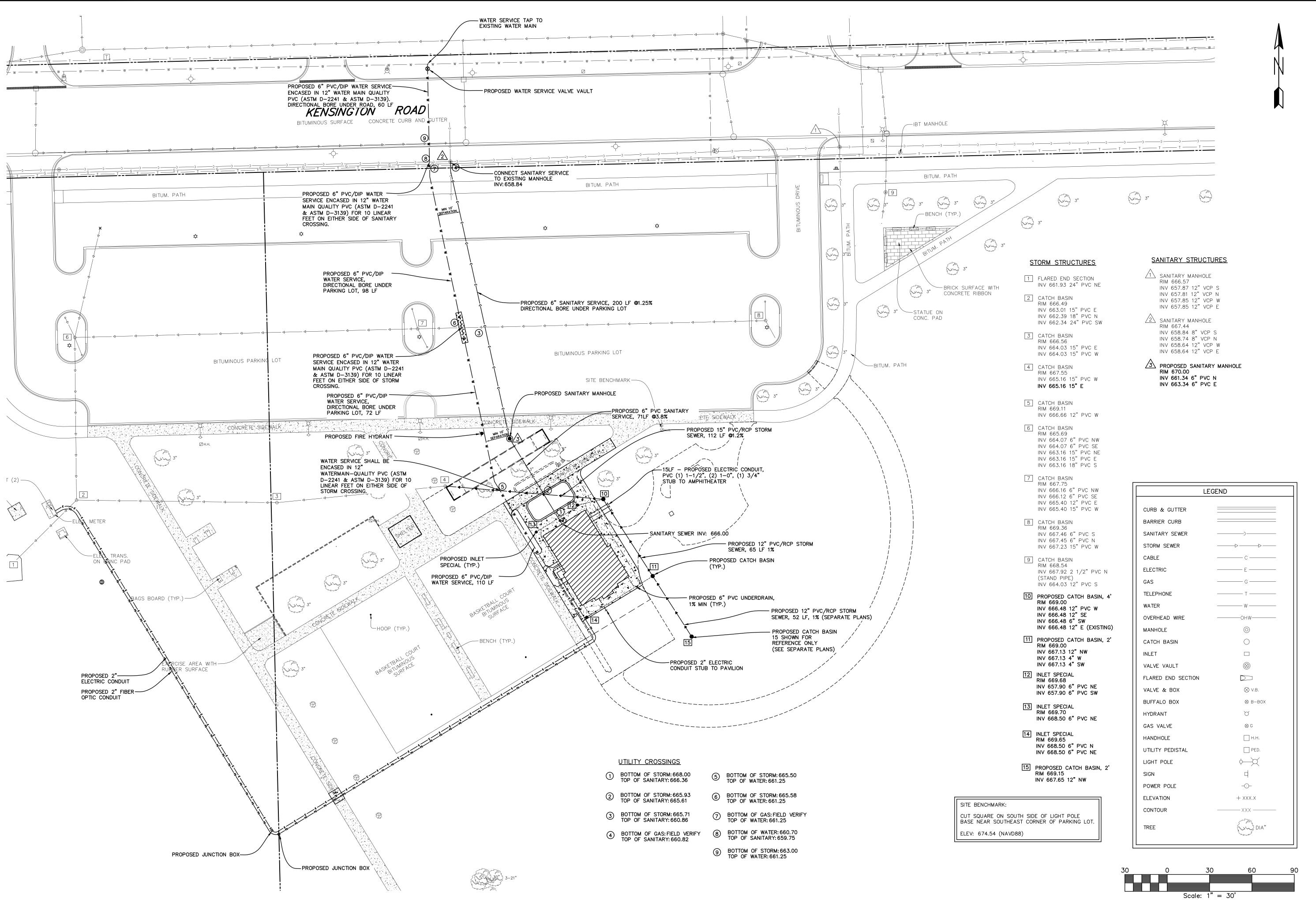
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2	10/04/2022	PERMIT REVISIONS

PROJECT:

**GEOMETRY PLAN** 

DATE: 07/29/2022		PROJECT # 2022-053
PRINCIPAL:  JM  PROJECT MGR: DRAWN BY:  JM AZ		SHEET: <b>C-2</b>
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3	10/19/2022	PERMIT REVISIONS

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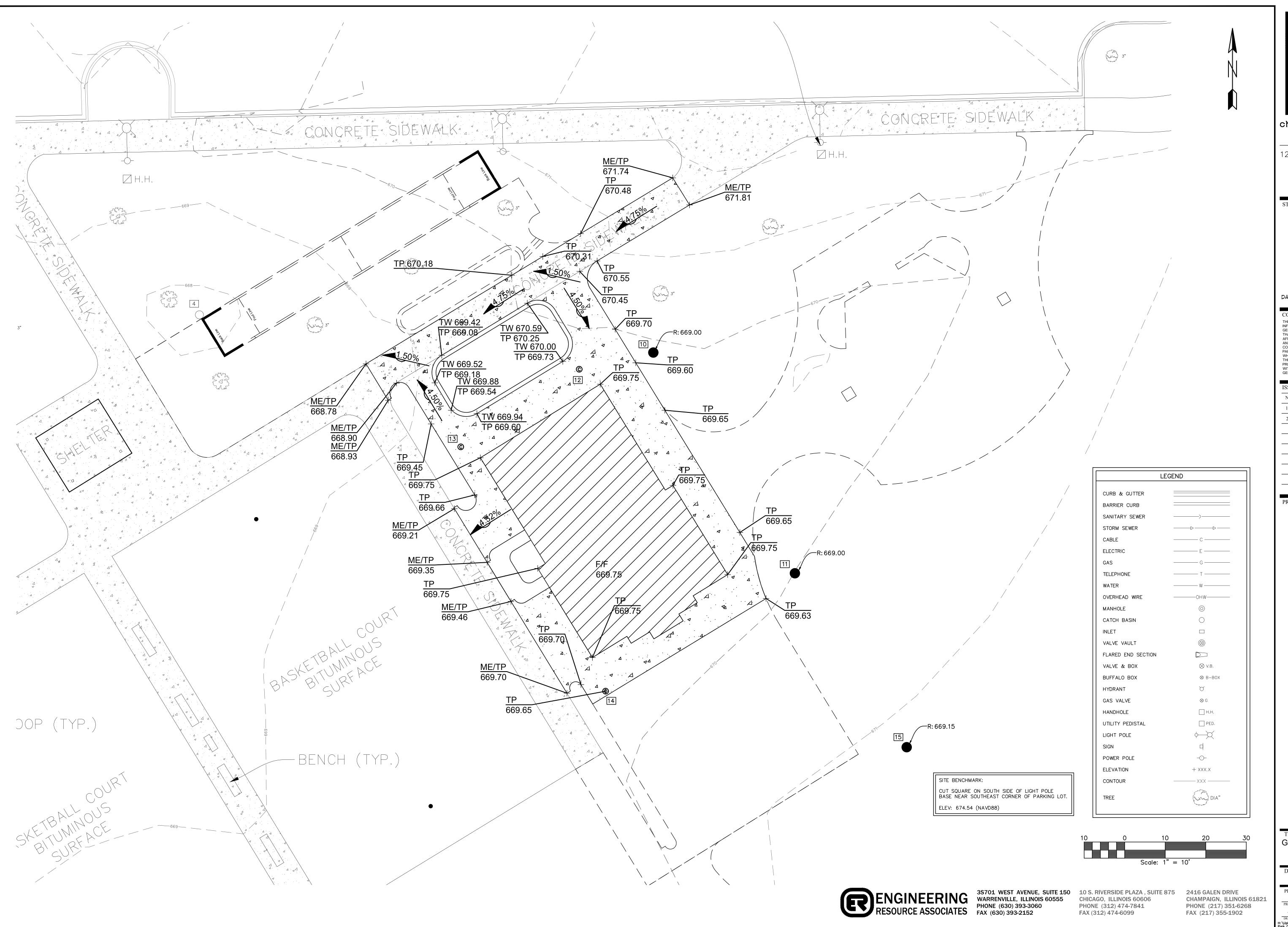
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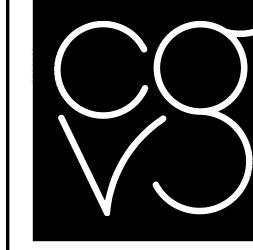
CENTRAL PAR

TITLE:
UTILITY PLAN

30'	DATE: 07/29/2022	PROJECT # 2022-053
2416 GALEN DRIVE CHAMPAIGN, ILLINOIS 61821 PHONE (217) 351-6268 FAX (217) 355-1902	PRINCIPAL:  JM  PROJECT MGR: DRAWN BY  JM AZ  DRAWING FILE PATH:  H: \Upland Design\W22127.A0 Centre Pork Oakbrook PD-OSLAD\CADD\W22127.A Centre	C-3

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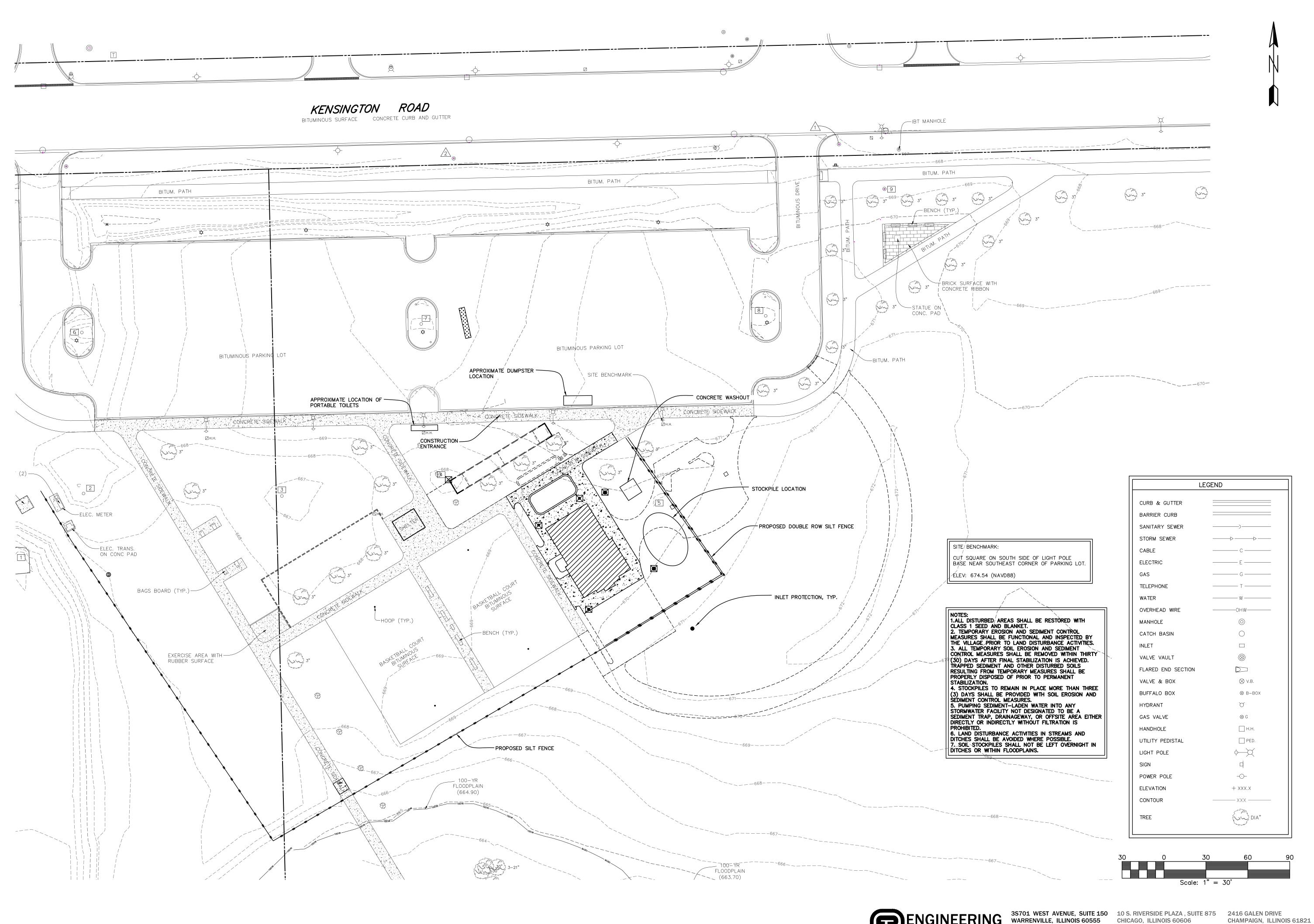
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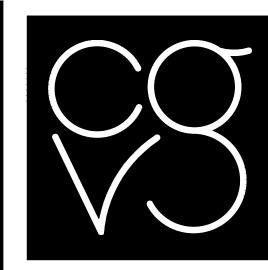
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2	10/04/2022	PERMIT REVISIONS	

PROJECT:

TITLE:
GRADING PLAN

DATE: 07/29	9/2022	PROJECT # 2022-053
PRINCIPAL: JM		SHEET:
PROJECT MGR:  JM	DRAWN BY: AZ	C-4
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	3	10/19/2022	PERMIT REVISIONS

PROJECT:

EROSION CONTROL PLAN

DATE: 07/2	9/2022	PROJECT # 2022-053
PRINCIPAL:	JM	SHEET:
PROJECT MGR: JM	DRAWN BY: AZ	C-5
DRAWING FILE PATH H: \Upland Design\W. Park Oakbrook PD_OSI AD\CADD\W;	22127.A0 Central	

RESOURCE ASSOCIATES PHONE (630) 393-3060 FAX (630) 393-2152

PHONE (312) 474-7841

FAX (312) 474-6099

PHONE (217) 351-6268

FAX (217) 355-1902

- 1. AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF ALL PHASES OF WORK, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING: VILLAGE OF OAKBROOK: (630) 368-5101
  - ENGINEERING RESOURCE ASSOC.: (630) 393-3060
- 2. UTILITY INFORMATION IS BASED UPON FIELD MEAUREMENTS AND BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND UTILITIES.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) 48 HOURS PRIOR TO ANY

EXCAVATION WORK TO DETERMINE THE EXACT LOCATION OF ÉXISTING UTILITIES.

- 4. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN THE STATE OF ILLINOIS", ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST
- "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION CONTROL AND SEDIMENTATION CONTROL IN ILLINOIS", NORTHEASTERN ILLINOIS SOIL EROSION AND SEDIMENTATION CONTROL STEERING COMMITTEE AND WILL COUNTY STORM WATER CONTROL ORDINANCE, LATEST EDITION.
- "CITY OF WARRENVILLE SUBDIVISION DESIGN STANDARDS".
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AS ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, SHALL BE CONSULTED. APPROPRIATE CONTROL METHODS SHOULD BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.
- 6. UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE CITY ENGINEER, ALL OPENINGS IN ANY PAVEMENT OR TRAVELED WAY SHALL BE BACKFILLED PRIOR TO THE END OF THE
- 7. THE CONTRACTOR SHALL ESTABLISH THE NECESSARY PERFORMANCE BONDS REQUIRED. PERMITS SHALL BE OBTAINED FROM ALL OUTSIDE GOVERNMENTAL AGENCIES HAVING JURISDICTION PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE MOST RECENT SET OF THE "APPROVED" FINAL ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
- 9. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE SAME.
- 10. CONTRACTOR SHALL RESTORE OFF-SITE SURFACES TO ORIGINAL CONDITION IF DAMAGED BY
- 11. THE CONTRACTOR IS TO PROVIDE THE CITY ENGINEER WITH RECORD DRAWINGS OF ALL UTILITIES SHOWING LOCATIONS OF ALL SEWER PIPE, MAINS, SERVICE STUBS, AND STRUCTURES.
- 12. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS. TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, AND THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 13. THE ENGINEER WARRANTS THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PROMULGATED ON CONDITIONS GENERALLY ENCOUNTERED WITHIN THE INDUSTRY. THE ENGINEER ASSUMES NO RESPONSIBILITY WHATSOEVER, WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS, FOR COMPLEX OR UNUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE OWNER'S /BIDDER'S RESPONSIBILITY TO ASCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENT.
- 14. ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, WATERMAINS, WATER SERVICE PIPES AND IN EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED IMPROVEMENTS, SIDEWALKS, AND CURB AND GUTTERS SHALL BE BACKFILLED WITH TRENCH BACKFILL (AS DEFINED IN SECTION 208 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.) USE CA-6 CRUSHED LIMESTONE ONLY; NO RECYCLED OR FINE AGGREGATE SAND.

## STORM SEWER:

- 1. REINFORCED CONCRETE PIPE STORM SEWER SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C-76 CLASS IV. PVC PIPE STORM SEWER (4 INCH AND 6 INCH) SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM D-3034 (SDR 35). GALVANIZED CORRUGATED STEEL CULVERT PIPE SHALL MEET OR EXCEED THE REQUIREMENTS OF AASHTO M-246, TYPE B, MINIMUM WALL THICKNESS 14 GAUGE.
- 2. SEWER PIPE JOINTS SHALL BE "O-RING" TYPE ASTM C-443 FOR RCP AND SHALL BE PUSH-ON TYPE- ASTM D-3212 FOR PVC PIPE.
- 3. MANHOLES AND CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE ASTM C-478 AND ASTM C-443
- 4. NO MORE THAN TWO PRECAST ADJUSTING RINGS WITH A MAXIMUM HEIGHT ADJUSTMENT OF 8 INCHES SHALL BE ALLOWED.
- 5. STORM SEWER MANHOLE JOINTS SHALL BE SEALED WITH PORTLAND CEMENT MORTAR, "O-RING" GASKETS, OR MASTIC MATERIAL.
- 6. INLETS SHALL BE TWENTY-FOUR (24) INCH DIAMETER PRECAST REINFORCED CONCRETE CONFORMING TO ASTM C-478.
- 7. FOUR INCHES OF CRUSHED GRAVEL OR CRUSHED STONE AGGREGATE (ASTM C-33, SIZE NO. 67) SHALL BE USED AS BEDDING UNDER THE PIPE. THE BEDDING STONE SHALL BE GRADED ALONG THE ENTIRE LENGTH OF PIPE TO PROVIDE FULL BEARING. THE BEDDING STONE SHALL
- 8. THE CONTRACTOR SHALL INSTALL EARTHEN CLAY SEEPAGE BLOCKS ON ALL STORM SEWER LINES ENTERING THE DETENTION PONDS. THE BLOCKS SHALL BE PLACED APPROXIMATELY 10-FT OUTSIDE OF THE HIGHWATER LEVEL ON EACH STORM LINE. THE BLOCKS SHALL BE 5-FEET LONG & FULLY COMPACTED FROM THE BOTTOM OF THE TRENCH TO THE CROWN OF THE PIPE.
- 9. RIM GRADES IN CURB AND GUTTER ARE EDGE OF PAVEMENT ELEVATIONS.

EXTEND TO THE SPRINGLINE OF THE PIPE.

- 10. ALL EXISTING FIELD TILE AND/OR DRAIN PIPES ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH A NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND GRADE AND PUT INTO AN ACCEPTABLE OPERATING CONDITION. A RECORD OF ALL FIFLD THE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER FOR "RECORD DRAWINGS" ON COMPLETION OF THE PROJECT. THE COST OF THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- 11. ALL FOOTING DRAINS AND DOWNSPOUTS SHALL DISCHARGE TO THE STORM SYSTEM.
- 12. ANY PIPES OR MANHOLES CONTAINING SEDIMENT SHALL BE CLEANED OUT PRIOR TO FINAL

- PAVEMENT, SIDEWALK, AND CURB & GUTTER:
- 1. PAVEMENT THICKNESS SHALL COMPLY WITH THE CITY OF WARRENVILLE REQUIREMENTS.
- 2. SIDEWALK SHALL BE FIVE (5) INCH PORTLAND CEMENT CONCRETE, FIVE (5) FEET WIDE, AND INSTALLED ONE (1) FOOT OFF OF THE RIGHT-OF-WAY LINE WITHIN THE PUBLIC RIGHT-OF-WAY UNLESS ENGINEERING PLAN SHOWS OTHERWISE. SIDEWALK SHALL BE SIX INCHES THICK WHERE PASSING ACROSS AN EXISTING OR PROPOSED COMMERCIAL DRIVE AND WHERE PASSING OVER PUBLIC UTILITY LINES.
- 3. HANDICAPPED RAMPS AND DEPRESSED CURBS SHALL BE PROVIDED WHEREVER SIDEWALK INTERSECTS CURB IN ACCORDANCE WITH IDOT SPECIFICATIONS.
- 4. THE CURB AND GUTTER BASE COURSE SHALL BE CA-6, TRIMMED OR FILLED AS NECESSARY TO PROVIDE A 10" DEPTH CURB AND GUTTER AT GUTTER FLAG. PRIOR TO CONCRETE PLACEMENT, THE BASE COURSE SHALL BE COMPACTED AND PROOF-ROLLED.
- 5. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT 40' MAXIMUM SPACING, ALL PC'S AND PT'S OF INTERSECTION RETURNS (RADII) AND ALL OTHER SHORT RADII, AND 4' EACH SIDE OF CURB AND GUTTER FRAMES. TWO NO. 5 REINFORCING BARS SHALL BE PLACED CONTINUOUSLY BETWEEN EXPANSION JOINTS. EXPANSION JOINTS SHALL BE DOWELED AND SPACED NO MORE THAN SIXTY FEET ON CENTER.
- 6. CONTRACTION JOINTS SHALL BE SAWCUT AT 10-FOOT MAXIMUM INTERVALS TO A DEPTH OF 2.5 INCHES. CONTRACTION JOINT SPACES SHALL BE SEALED WITH A COLD-POURED JOINT COMPOUND. CONCRETE CURING COMPOUND SHALL BE APPLIED AS FINISHING WORK PROCEEDS.
- 7. THE CONTRACTOR SHALL BACKFILL CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF BASE COURSE MATERIALS. THE CURB IS TO BE SAWCUT WITHIN 24 HOURS AFTER PLACEMENT. GUTTER PITCH SHALL BE REVERSED WHERE APPROPRIATE FOR
- 8. ALL CURBS CONSTRUCTED OVER A UTILITY TRENCH ON THE MAIN DRIVE AND ALL CURBS ON THE CUL-DEL-SAC DRIVES SHALL BE REINFORCED WITH TWO NO. 4 REBARS FOR A LENGTH OF 20 FEET CENTERED OVER THE TRENCH. SIDEWALKS SHALL BE TREATED IN THE SAME MANNER USING THREE NO. 6 BARS OVER UTILITIES.
- 9. PRIOR TO PLACING ANY PAVEMENT MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY PREPARING AND COMPACTING THE SUBGRADE. BOTH THE CURB AND GUTTER AND PAVEMENT BASE COURSE SHALL BE PROOF-ROLLED WITH A FULLY-LOADED DUMP TRUCK. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE PROOF-ROLLING. ADDITIONAL PROOF-ROLLS MAY BE NECESSARY TO VERIFY THAT ANY UNSTABLE AREAS HAVE BEEN REPAIRED. NO PAVEMENT MATERIAL IS TO BE PLACED ON A WET OR SOFT SUBGRADE. DEVELOPER'S /OWNER'S MATERIAL TESTING AGENT SHALL ALSO WITNESS PROCEDURE TO MAKE AND CERTIFY REPAIRS IN WRITING.
- 10. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT TO A NEAT EDGE ALONG LIMITS OF PROPOSED REMOVAL BEFORE REMOVAL OPERATIONS BEGIN.

- ALL FLEXIBLE GRAVITY SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321-89. ALL FLEXIBLE GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR 26 PIPE MEETING THE REQUIREMENTS OF ASTM D-3034 WITH JOINTS TO BE ELASTOMERIC GASKETS COMPLYING WITH ASTM F-477 AND PRESSURE RATED IN ACCORDANCE WITH ASTM D-3212.
- WATERMAIN QUALITY PIPE SHALL BE PVC SDR 26 MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS TO BE IN ACCORDANCE WITH ASTM D-3139 FOR 10' EITHER SIDE OF CROSSING. 2. EMBEDMENT MATERIALS FOR BEDDING, HAUNCHING AND INITIAL BACKFILL TO AT LEAST TWELVE INCHES OVER THE TOP OF THE PIPE WITH CLASS 1A OR 1B OR II OR III. PROCESSED MATERIAL PRODUCED FOR HIGHWAY CONSTRUCTION USED IN THE PROJECT CLASSIFIED ACCORDING TO PARTICLE SIZE,
- 3. ALL RIGID GRAVITY SEWER PIPE TO BE INSTALLED IN ACCORDANCE WITH ASTM C-12 AND BEDDING MATERIAL A, B AND TY C.
- 4. PICKHOLES IN ALL MANHOLES LIKELY TO BE FLOODED SHALL NOT BE LARGER THE ONE INCH IN DIAMETER AND SHALL BE OF THE CONCEALED TYPE.
- 5. THE MINIMUM BUILDING GRAVITY SANITARY SEWER SERVICE SIZE SHALL BE BE SIX (6) INCHES IN DIAMETER. THE SERVICE LATERAL SHALL SLOPE TOWARD THE MAIN AT THE MINIMUM RATE OF ONE (1) PERCENT.
- 6. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE- ASTM C-478 WITH RUBBER BOOTS.

SHAPE AND GRADATION IN ACCORDANCE WITH ASTM D-2321-89, SECTION 9, TABLE 1.

- 7. NO MORE THAN TWO PRECAST ADJUSTING RINGS WITH A MAXIMUM HEIGHT ADJUSTMENT OF EIGHT INCHES SHALL BE ALLOWED.
- 8. ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT PIPE TO MANHOLE SLEEVES OR SEALS, PER ASTM C-923.
- 9. MANHOLES SHALL INCLUDE WRAPIDSEAL MANHOLE ENCAPSULATION SYSTEM.
- 10. ALL SANITARY SEWER CONSTRUCTION REQUIRES FOUR (4) INCHES OF CA-7 CRUSHED GRAVEL OR CRUSHED STONE BEDDING UNDER THE PIPE. BEDDING STONE SHALL EXTEND TO A POINT TWELVE INCHES ABOVE THE TOP OF PIPE.
- 11. THE INSTALLATION OF SANITARY SEWER AND APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-2321 FOR PVC PIPE AND FITTINGS.
- 12. BACKFILLING OF THE TRENCH SHALL BE ACCOMPLISHED BY CAREFUL REPLACEMENT OF THE EXCAVATED MATERIAL AFTER THE PIPE, BEDDING, AND THE COVER MATERIAL HAVE BEEN INSTALLED, ANY PIPE INSTALLED UNDER OR WITHIN TWO (2) FEET OF A PAVEMENT EDGE, SIDEWALK, OR CURB AND GUTTER SHALL BE BACKFILLED TO THE TOP OF THE TRENCH WITH CA-6 MATERIAL.
- 13. "BAND-SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE DISSIMILAR MATERIALS. ALL CHANGES OF MATERIAL SHALL OCCUR INSIDE A MANHOLE.
- 14. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE. TEE. OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHOULD BE USED:
  - A.) CIRCULAR SAWCUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
  - B.) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
- C.) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLE IT FIRMLY IN PLACE.
- 15. MANHOLE FRAMES SHALL BE NEENAH NO. R-1712 WITH A SELF-SEALING LID EMBOSSED WITH "SANITARY SEWER", UNLESS OTHERWISE NOTED.
- 16. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.
- 7. ALL SANITARY SEWER PIPES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, AS A MINIMUM, AND WITH FLAGG CREEK WATER RECLAMATION DISTRICT REQUIREMENTS, INCLUDING VISUAL, TELEVISED, INFILTRATION, EXFILTRATION, AIR TESTS, LEAKAGE TESTS AND DEFLECTION TESTS.
- 18. MANHOLES SHALL BE TESTED PER ASTM C969 OR C1244.
- 19. CASING SHALL BE DUCTILE IRON OR STEEL. MANUFACTURED PIPE CHOCKS MUST BE USED BETWEEN THE PIPE AND THE CASING. PEA GRAVEL SHALL BE JETTED THROUGH THE CASING, WITH CONCRETE MORTAR ON THE ENDS.

## SITE GRADING:

- 1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS MAY REQUIRE EARTH EXCAVATION AND COMPACTED EARTH FILL MATERIAL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS.
- 2. PLACEMENT OF THE EXCAVATED MATERIAL SHALL BE IN AREAS DESIGNATED BY THE OWNER FOR FUTURE USE, WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING
- 3. COMPACTION OF THE EXCAVATED MATERIAL PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL SHALL BE MODERATE.
- 4. EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE
- 5. EXCAVATION OF EARTH AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL: THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.3' +/- OF THE PLAN SUBGRADE ELEVATIONS. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE 0.1'+/-, OR SUCH THAT THE EARTH MATERIAL SHALL BALANCE AS PART OF THE FINE GRADING OPERATION.
- 6. PLACEMENT AND COMPACTION OF MATERIALS SHALL CONFORM TO I.D.O.T. SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

## SOIL EROSION CONTROL PLAN:

- 1. ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE ANY WORK BEGINS ON SITE.
- 2. STOCKPILE SHALL NOT BE LOCATED IN SPECIAL MANAGEMENT AREAS.
- 3. WHERE FENCING IS USED, THE CONDITION OF THE FENCE SHALL BE CHECKED AT MINIMUM EVERY OTHER WEEK, OR AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION.
- 4. ANY STORM WATER DRAINAGE STRUCTURES THAT HAVE THE POTENTIAL TO ACCEPT RUNOFF CONTAINING SUSPENDED SOIL PARTICLES SHALL BE SURROUNDED WITH STAKED AND BUTTED
- 5. ALL BALES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED, AND SHALL ALSO BE CHECKED AT REGULAR INTERVALS TO MAINTAIN THEIR EFFECTIVENESS IN TERMS OF TOTAL CONTACT WITH THE EARTH BELOW. SILT FENCING CAN REMAIN IN PLACE THROUGH THE CONSTRUCTION OF THE HOUSES/BUILDINGS TO SERVE AS EROSION CONTROL FOR THAT CONSTRUCTION.
- 6. AS EACH PHASE ON THE ENTIRE SITE IS COMPLETED, BALES ARE TO BE REMOVED AND THE ENTIRE AREA EITHER SODDED OR SEEDED AFTER SEDIMENT HAS BEEN REDISTRIBUTED. IF WEATHER CONDITIONS ARE SUCH THAT SEEDING WOULD NOT BE EFFECTIVE, THEN THE STOCK PILES SHOULD BE EITHER MULCHED OR COVERED AND GRADED SO THAT ALL SEDIMENT FROM EROSION WILL BE CONFINED WITHIN THE BOUNDARIES OF THE SITE.
- 7. SEEDING SHALL BE DONE PER "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL, LATEST EDITION AND LAKE COUNTY STORM WATER CONTROL ORDINANCE.
- 8. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, STABILIZED CONSTRUCTION WORK ENTRANCES SHALL BE CONSTRUCTED OF GRAVEL AND SHALL EXTEND AT LEAST 100 FEET INTO THE JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY.
- 9. THE CONTRACTOR SHALL HAVE THE DETENTION POND VOLUME VERIFIED BY A LICENSED ENGINEER OR SURVEYOR PRIOR TO THE INSTALLATION OF TOPSOIL AND SEEDING/SOD. THE COST OF SAID VERIFICATION SHALL BE BORNE BY THE CONTRACTOR.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF ANY EXCESS EXCAVATED MATERIAL.
- 11. TOPSOIL STOCK PILES SHALL BE PROTECTED. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN SEDIMENT & EROSION CONTROL SHALL BE PROVIDED
- T IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL THE SEDIMENTATION CONTROL MEASURES. INSPECTIONS SHALL BE CONDUCTED AFTER A RAIN EVENT, AND IF MAINTENANCE OF THE STRUCTURES IS NECESSARY, INCLUDING REPAIR OF DAMAGE AND REMOVAL OF DEPOSITS OR SEDIMENT FROM VEGETATIVE FILTERS. IT SHALL BE

## VILLAGE OF OAKBROOK WATER SYSTEM CONSTRUCTION STANDARDS

Water distribution mains shall be designed and constructed to conform with the long range water plans of the Village with respect to size and general location. Dead-end water mains shall not be constructed unless plans call for the main to be a part of a future loop system and an approved flushing device installed at the dead-end.

All water mains shall have a minimum diameter of 6" (150 mm). Minimum depth of bury (cover) shall be 5'-6" (1.7 m).

Water main valves should be placed at intervals not exceeding 1,200' (350 m) to provide for isolating small sections of main and on as many legs of a "cross" or "tee" as deemed appropriate by the Village Engineer. All valves in existing or proposed pavement or sidewalk areas shall be in valve vaults as approved by the Village Engineer. Valves in grassy or unpaved areas may be installed with valve boxes as approved by the Village Engineer.

Water mains and water services shall be installed in separate trenches and at least 10' (3.0 m) horizontal away from storm sewers and storm services and from sanitary sewers and sanitary services unless otherwise approved by the Village in writing.

The service valve or curb stop shall be located 2' (0.5 m) from the property line (if within ROW) or easement line (if within easement). For single family residential use, valve boxes (b-boxes) will be permitted on these valves in any location. For all other use, valve boxes (b-boxes) will be permitted on these valves provided they do not fall within pavement or sidewalk in which case valve vaults will be required.

All water services shall be laid in public ways or easements to the premises so as to enter the building to be served by the most direct route from the water main.

A metered check valve shall be installed on all fire lines at the owner's expense and shall be located inside the building as approved by the Public Works Director.

Each service extension shall be tested prior to backfilling in the presence of a Water Division inspector and shall show no leakage under full water pressure.

Easements shall be a minimum of 20' (6.0 m) in width for water mains that are 10" (250 mm) in diameter or less and a minimum of 25' (7.5 m) in width for water mains that are 12" (300 mm) in diameter or more.

No water main or water service shall be backfilled until approved to do so by the Engineering

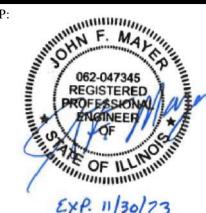
When a water main or service crosses below a sewer pipe, it is the Village's policy to not place the water main or service in a carrier pipe. Rather, the sewer shall be water main grade pipe or placed within a carrier pipe. In those cases, PVC pipe meeting ASTM D-2241-SDR-21 or DIWM pipe shall be acceptable as water main grade.

# charles vincent george ARCHITECTS

1245 E. Diehl Rd. Suite 101 Naperville, Illinois 60563 630.357.2023

cvgarchitects.com

STAMP:



Ø7/29/2*0*22 DATE:

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GEORGE .	GEORGE ARCHITECTS, INC.					
ISSUE	ISSUE AND/OR REVISIONS:					
NO.	DATE	DESCRIPTION				
1	07/29/2022	ISSUE FOR PERMIT & BID				
3	10/19/2022	PERMIT REVISIONS				

PROJECT

H

**GENERAL NOTES** 

07/29/2022 2022-053 PRINCIPAL PROJECT MGR: JM AZDRAWING FILE E

Filter Fabric \_\_\_\_ Fastener - Min. No. 10 Gage Wire Filter Fabric 4 Per Post Required. (Typ.) \_ \_ **5**' Max (Typ) Step 2 ELEVATION -Filter Fabric . Undisturbed Ground Line Step 3 -Compacted Backfill ATTACHING TWO SILT FENCES FABRIC ANCHOR DETAIL 1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading Place the end post of the second fence inside the end post of the first fence. and site stabilization. Rotate both posts at least 180 degrees in a clockwise direction to 2. Filter fabric shall meet the requirements of material specification create a tight seal with the fabric material. 592 Geotextile Table 1 or 2, Class with equivalent opening size of Cut the fabric near the bottom of the stakes to accommodate the 6" at least 30 for nonwoven and 40 for woven.

Department or Water Division.

3. Fence posts shall be either standard steel post or wood post with a minimum cross—sectional area of 3.0 sq. in.

Project

Designed

Checked

SILT FENCE PLAN

STANDARD DWG. NO. IUM-620 DATE 3-16-12

Project Checked Approved

stormwater piping.

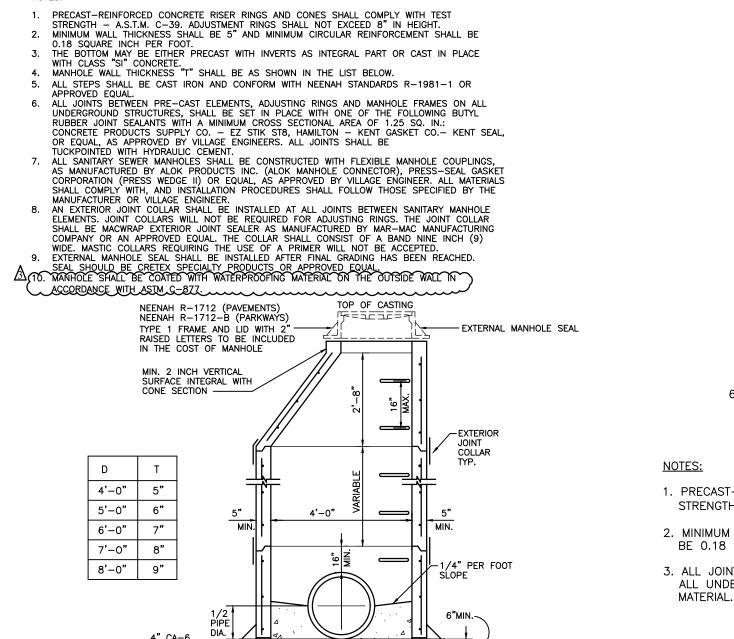
Drive both posts a minimum of 18 inches into the ground and bury the

Compact backfill (particularly at splices) completely to prevent

SILT FENCE - SPLICING TWO FENCES

IUM-620B(W)SHEET 1 OF 1 DATE 3-16-2012

H: \Upland Design\W22127.A0 Centro Park Oakbrook D-OSLAD\CADD\W22127.A General otes and Details.dwg Updated by: azielinski 10/19/2022



SANITARY SEWER MANHOLE, TYPE A

TYPE "C" MANHOLE IS WITHOUT CONE SECTION

PRECAST MANHOLE SECTION

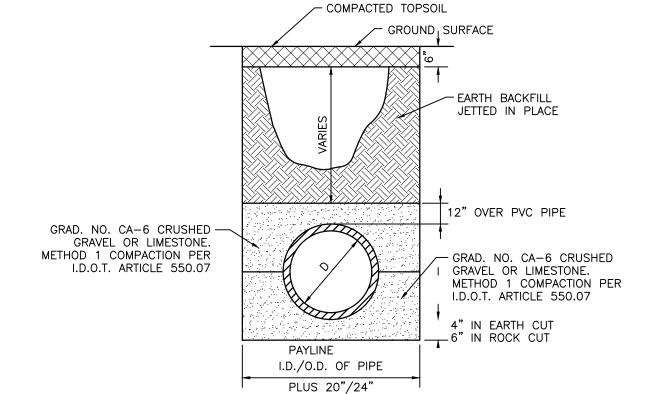
TOP OF CASTING

[F=JCJC=7]

- 1. PRECAST-REINFORCED CONCRETE RISER RINGS AND CONES SHALL COMPLY WITH TEST STRENGTH - A.S.T.M. C-39. ADJUSTMENT RINGS SHALL NOT EXCEED 8" IN HEIGHT.
- 2. MINIMUM WALL THICKNESS SHALL BE 5" AND MINIMUM CIRCULAR REINFORCEMENT SHALL BE 0.18 SQUARE INCH PER FOOT.
- 3. ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES, SHALL BE SET IN PLACE WITH FLEXIBLE BUTYL GASKET

NOT TO SCALE

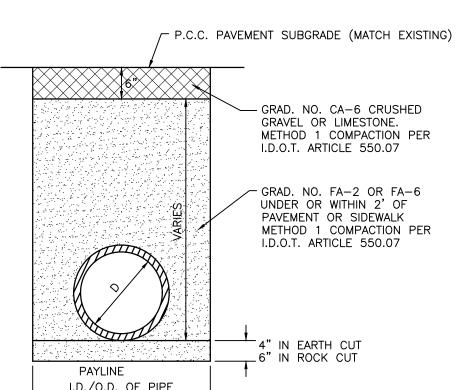
# L-----L-----PRECAST CONCRETE PRECAST CONCRETE BARREL SECTION — 4"THICK PRECAST CONCRETE BASE SAND CUSHION



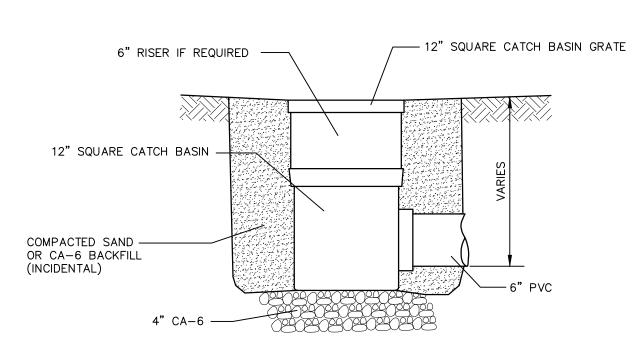
TRENCH SECTION IN UNPAVED AREAS

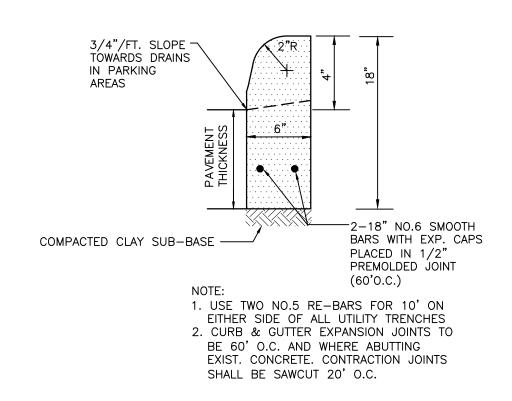
# — GRAD. NO. CA−6 CRUSHED GRAVEL OR LIMESTONE. I.D.O.T. ARTICLE 550.07 GRAD. NO. FA-2 OR FA-6 UNDER OR WITHIN 2' OF PAVEMENT OR SIDEWALK I.D.O.T. ARTICLE 550.07 \_\_\_6" IN ROCK CUT I.D./O.D. OF PIPE

TRENCH SECTION IN PAVED AREAS NOT TO SCALE TRENCH BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES IN PAVED AREAS

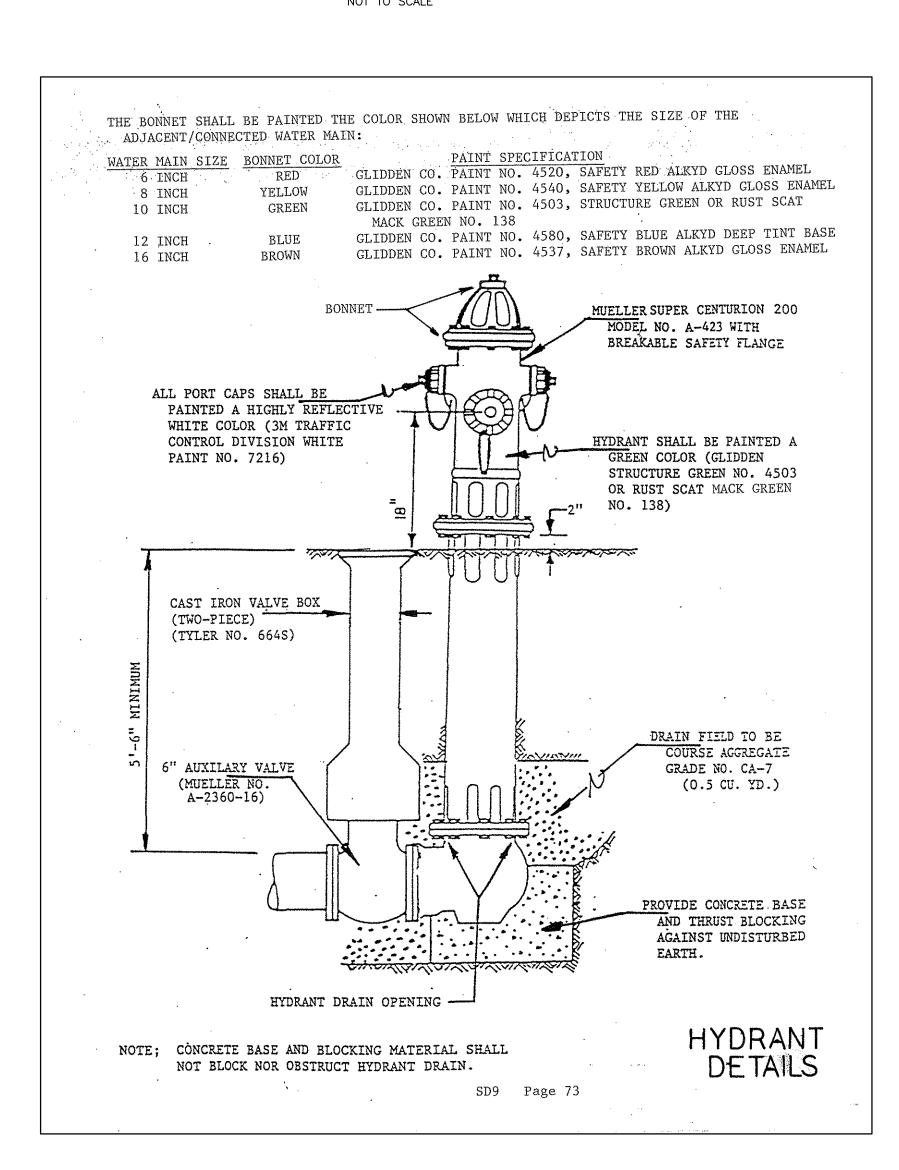


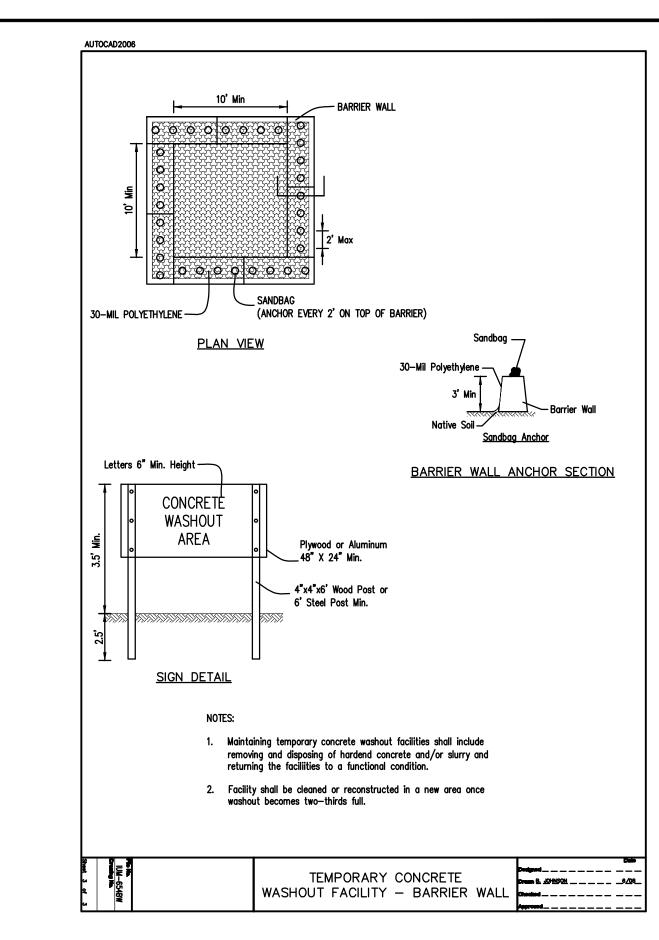
PLUS 20"/24"

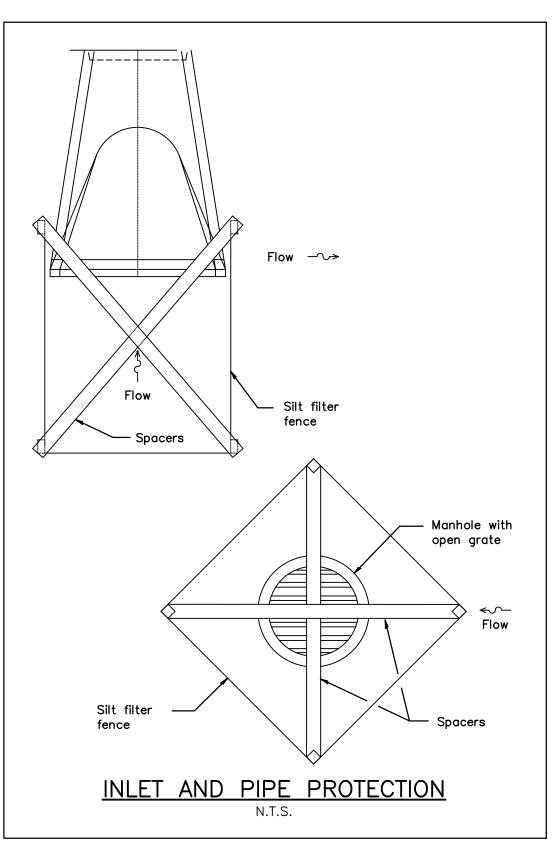


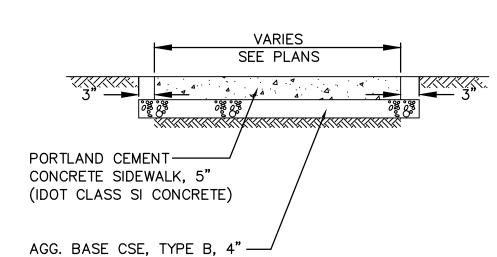


# BARRIER CURB









NOT TO SCALE

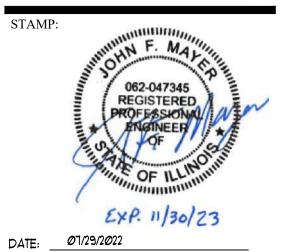
# CONCRETE SIDEWALK DETAIL



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ISSUE AND/OR REVISIONS: NO. DATE DESCRIPTION ISSUE FOR PERMIT & BID 07/29/2022 10/19/2022 PERMIT REVISIONS

PROJECT:

**DETAILS** 

07/29/2022 2022-053 PRINCIPAL: PROJECT MGR: DRAWN BY: JM AZDRAWING FILE PAT \\192.168.1.106\H\_drive\Upland
Design\W22127.A0 Central Park
Oakbrook PD-OSLAD\CADD\W22127.A
General Notes and Details.dwg
Updated by: azielinski 10/27/2022

ADJUSTING RINGS (2 MAX.)

CATCH BASIN, TYPE C

CONCRETE.

- 1. PRECAST-REINFORCED CONCRETE RISER RINGS AND CONES SHALL COMPLY WITH TEST STRENGTH - A.S.T.M. C-39. ADJUSTMENT RINGS SHALL NOT EXCEED 8" IN HEIGHT.
- 2. MINIMUM WALL THICKNESS SHALL BE 5" AND MINIMUM CIRCULAR REINFORCEMENT SHALL BE 0.18 SQUARE INCH PER FOOT.
- 3. THE BOTTOM MAY BE EITHER PRECAST AS INTEGRAL PART OR CAST IN PLACE WITH CLASS "SI"
- 4. MANHOLE WALL THICKNESS "T" SHALL BE AS SHOWN IN THE LIST BELOW.
- 5. ALL STEPS SHALL BE CAST IRON.
- 6. ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES, SHALL BE SET IN PLACE WITH A RUBBER JOINT SEALANT, AND ALL JOINTS TO BE TUCKPOINTED WITH HYDRAULIC CEMENT.
- 7. FOR LOCATIONS WITH A BEEHIVE GRATE, SIX-INCHES OF ADJUSTING RINGS SHALL BE INCLUDED ON TOP OF THE SLAB TO ALLOW TOPSOIL PLACEMENT AND GRASS ESTABLISHMENT ABOVE THE
- 8. IN GENERAL, USE TYE 8 GRATE IN LAWN AREAS.IN LAWN AREAS WHERE TREES ARE PRESENT, IN PUBLIC RIGHT-OF-WAY, AND IN DITCHES, USE STOOL TYPE GRATE. CONTRACTOR SHALL CONFIRM GRATE TYPES WITH ENGINEER.

FINISH LEGEND						
CODE	ITEM / DESCRIPTION	MANUFACTURER	STYLE	COLOR	REMARKS	
	PAINT					
P-1	GYPSUM CEILING	BENJAMÍN MOORE	SCUFF-X	CHANTILLY LACE OC-65	FLAT	
P-2	WALLS	BENJAMIN MOORE	SCUFF-X	EDGECOMB GRAY HC-173	SEMI-GLOSS	
	CONCRETE	•		•	•	
CN-1	SEALED CONCRETE SLAB			CLEAR		
CN-2	STAINED CONCRETE SLAB	SURECRETE	ECO STAIN	BEECHNUT 43		
	SOLID SURFACE					
<b>55-</b> 1	GRANITE	DALTILE		BIANCO ANTICO	2 CM, POLISHED, STRAIGHT EDGE - REFER TO DETAIL 1/A4,1 FOR HEIGHT	
	STAIN			•		
ST-1	ANTI-GRAFFITI COATING	GSS COATINGS, LLC	GSS-10 GRAFFITI SOLUTION SYSTEM		REFER TO SPEC SECTION Ø9 9623 ANTI-GRAFFITI COATING SYSTEM	

	FINISH SCHEDULE							
ROOM NO.	ROOM NAME	FLOOR FINISH	WALL FINISH	CEILÍNG FÍNISH	CEÌLING HEIGHT	CEILING TYPE	ROOM NO.	REMARKS
101	PREPACKAGED CONCESSIONS	CN-2	P-2 / ST-2	P-1	SEE RCP	GWB	101	SLIP RESISTANT FINISH AT FLOOR
1Ø2	UTILITY ROOM / STORAGE	CN-1	P-2 / ST-2	P-1	SEE RCP	GWB	1Ø2	
1Ø3	GENDER NEUTRAL RESTROOM	CN-2	P-2 / ST-2	P-1	SEE RCP	GWB	103	SLIP RESISTANT FINISH AT FLOOR
104	WOMEN'S RESTROOM	CN-2	P-2 / ST-2	P-1	SEE RCP	GWB	104	SLIP RESISTANT FINISH AT FLOOR
1Ø5	MEN'S RESTROOM	CN-2	P-2 / ST-2	P-1	SEE RCP	GWB	105	SLIP RESISTANT FINISH AT FLOOR
106	GENDER NEUTRAL RESTROOM	CN-2	P-2 / ST-2	P-1	SEE RCP	GWB	106	SLIP RESISTANT FINISH AT FLOOR

# **ROOM FINISH NOTES**

DRINKING FOUNTAIN W/ DIRECTIONAL ARROW

- THE ABOVE SCHEDULE INDICATES SURFACE FINISHES ONLY.
- SEE REFLECTED CEILING PLAN AND PARTITION TYPES FOR UNDERLYING SUBSTRATE MATERIALS.
- ALL INTERIOR SURFACES SHALL BE PAINTED, SEALED, OR NATURAL.
- SEE GENERAL FINISH NOTES ON GI.I FOR MORE INFORMATION. SEE FINISH LEGEND THIS SHEET FOR PRODUCT SPECIFICATIONS.
- SURFACES TO RECEIVE FINISHES SHALL BE CLEAN, TRUE & FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. ADHERE TO FINISH MATERIAL SPECIFICATIONS FOR FINAL SURFACE PREP
- VERIFY ALL DOOR UNDERCUTS WITH FLOOR TRANSITIONS. REFER TO DOOR SCHEDULE AND MECHANICAL PLANS FOR MORE INFORMATION.
- FINISHES LISTED ON FINISH PLANS AND SCHEDULES INDICATE THE PRIMARY FINISH ONLY. REFER TO INTERIOR ELEVATIONS, CEILING PLAN 4 DETAILS FOR ADDITIONAL FINISH INFORMATION.

ATTIC STOCK: I GAL OF EACH PAINT SPECIFIED. REFER TO PROJECT MANUAL (WHERE APPLICABLE) FOR OVER-RIDING QUANTITIES.

- FLOORING CONTRACTOR IS RESPONSIBLE FOR PROPER SUBSTRATE PREPARATION REQUIRED BY THE FLOORING PRODUCT MANUFACTURER. COORDINATION OF REQUIREMENTS TO BE FULLY DISCLOSED WITH GENERAL CONTRACTOR FOR PROPER SEQUENCING OF
- CONSTRUCTION. 10. ALL HM. DOORS & FRAMES TO BE PAINTED TO MATCH ADJACENT WALL SURFACE U.N.O. SHEEN TO BE SEMI-GLOSS.

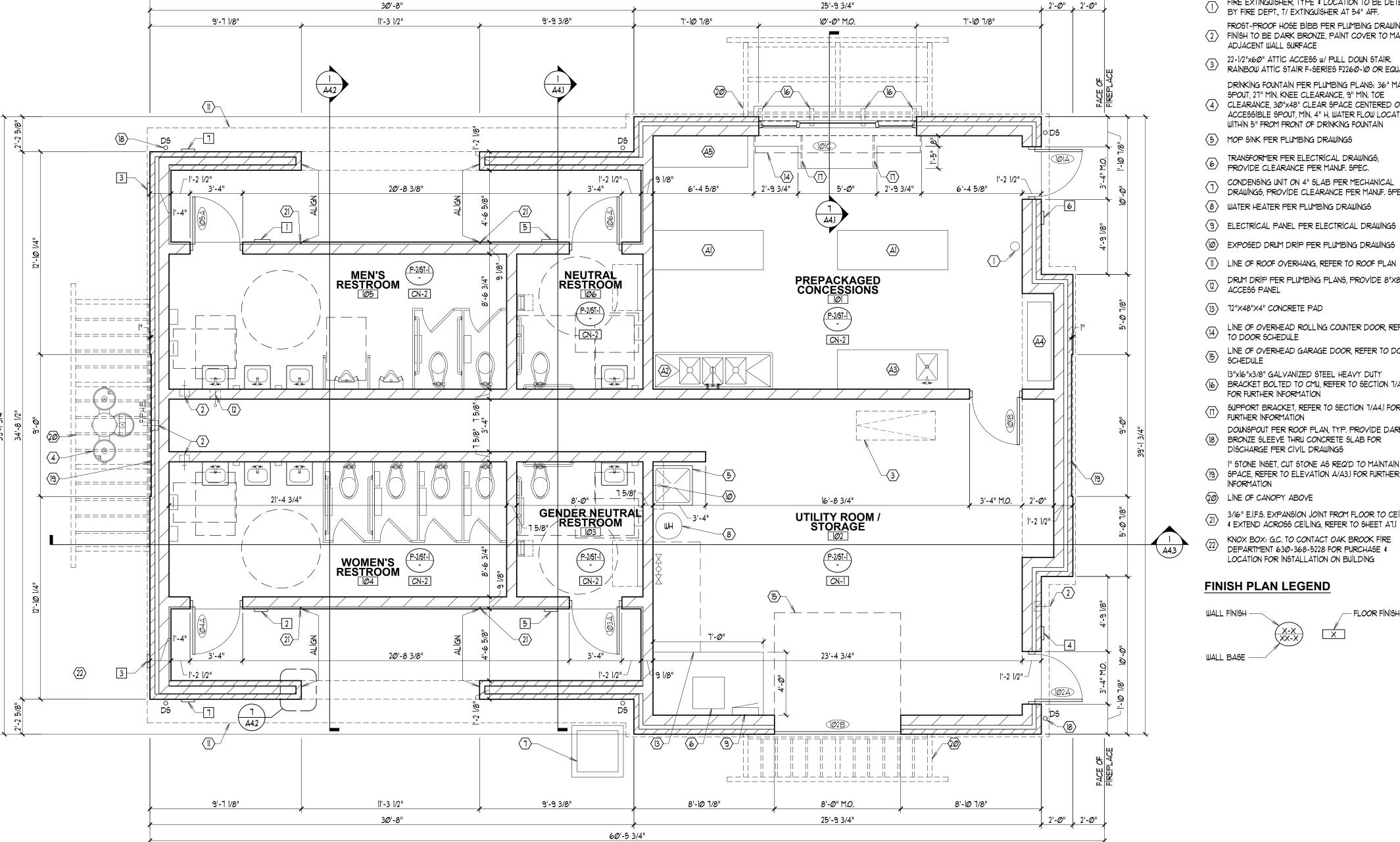
SIGN LEGEND						
CODE	SIGNAGE	SIZE	LOCATION	COLOR	QTY	REMARKS
1	MEN'S RESTROOM	10"x10"	MOUNT 60" AFF. @ CENTER	SUBSTRATE: "DARK BROWN" LETTERS & ICONS: "WHITE"	1	
2	WOMEN'S RESTROOM	10"x10"	MOUNT 60" AFF. © CENTER	SUBSTRATE: "DARK BROWN" LETTERS & ICONS: "WHITE"	1	
3	MEN'S / WOMEN'S RESTROOM W/ DIRECTIONAL ARROW	10"x10"	MOUNT 60" AFF. @ CENTER	SUBSTRATE: "DARK BROWN" LETTERS & ICONS: "WHITE"	2	
4	STORAGE ROOM	10"x10"	MOUNT 60" AFF. @ CENTER	SUBSTRATE: "DARK BROWN" LETTERS & ICONS: "WHITE"	1	
5	GENDER NEUTRAL RESTROOM W/ ADA SYMBOL	10"×10"	MOUNT 60" AFF. @ CENTER	SUBSTRATE: "DARK BROWN" LETTERS & ICONS: "WHITE"	2	
6	CONCESSIONS	10"x10"	MOUNT 60" AFF. @ CENTER	SUBSTRATE: "DARK BROWN" LETTERS & ICONS: "WHITE"	1	

@ CENTER

LETTERS & ICONS: "WHITE"

SUBSTRATE: "DARK BROWN"

CODE	ITEM / DESCRIPTION	MANUFACTURER	ITEM#	COLOR	QTY	REMARKS
(AI)	84"x30" WORK TABLE	ADVANCE TABCO	MSLAG-307-X	STAINLESS STEEL	2	
<u>(A2</u> )	28"x91" 3-COMPARTMENT SINK & 14" SWING SPOUT SPLASH MOUNT FAUCET	ADVANCE TABCO	19-3-54-18RL-X / K-105	STAINLESS STEEL	1	
<b>(A3</b> )	84"x30" WORK TABLE W/ INTEGRAL HAND SINK & FAUCET	ADVANCE TABCO	M9LAG-3Ø7-X / TA-11A-K-55	STAINLESS STEEL	1	5" H. BACKSPLASI
<b>(A4)</b>	18"x60" WIRE SHELVING COMBO	ADVANCE TABCO	ECC-186Ø	CHROME	1	
<b>A5</b>	72"x24" WORK TABLE	ADVANCE TABCO	MSLAG-246-X	STAINLESS STEEL	1	
				TOTAL	6	



60'-5 3/4"



## FLOOR PLAN GENERAL NOTES

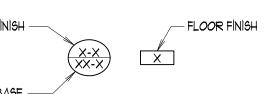
- 1. DIMENSIONS INDICATED ARE TO FACE OF WALL CONSTRUCTION, UNO. SEE DETAILS FOR ADDITIONAL INFO.
- 2. LOCATION OF FIRE EXTINGUISHERS ON PLAN FOR PERMIT ISSUE ONLY. TYPE & LOCATION TO BE DETERMINED BY FIRE DEPARTMENT.
- 3. REFER TO STRUCTURAL DRAWINGS FOR ALL LINTEL LOCATIONS AND SIZES.
- 4. PROVIDE SAW CUT CONTROL JOINTS IN EQUAL SPACES, MAX. JOINT SPACING AS NOTED ON STRUCT. DWGS.
- 5. PROVIDE SHOP DUGS. FOR ALL EXTERIOR PRODUCTS \$ FINISHES (INCL. SEALANTS) FOR ARCHITECT'S/OWNER'S REVIEW AS PART OF ONE PACKAGE.
- 6. EXTERIOR MASONRY EXPANSION JOINTS SHALL BE LOCATED AT EXTERIOR WALLS @ 30'-0" MAXIMUM CENTER TO CENTER SPACING & 2'-0" FROM ALL CORNERS OF
- 7. ALL MORTAR JOINTS TO BE 3/8" CONCAVE, U.N.O.

BUILDING.

## FLOOR PLAN KEYED NOTES

- FIRE EXTINGUISHER, TIPE + LOGALIST BY FIRE DEPT., T/ EXTINGUISHER AT 54" AFF. FIRE EXTINGUISHER, TYPE & LOCATION TO BE DETERMINED
- FROST-PROOF HOSE BIBB PER PLUMBING DRAWINGS, (2) FINISH TO BE DARK BRONZE, PAINT COVER TO MATCH ADJACENT WALL SURFACE
- 22-1/2"x60" ATTIC ACCESS w/ PULL DOWN STAIR. RAINBOW ATTIC STAIR F-SERIES F2260-10 OR EQUAL DRINKING FOUNTAIN PER PLUMBING PLANS: 36" MAX. TO SPOUT, 27" MÎN. KNEE CLEARANCE, 9" MÎN. TOE
- (4) CLEARANCE, 30"x48" CLEAR SPACE CENTERED ON ACCESSIBLE SPOUT, MIN. 4" H. WATER FLOW LOCATED WITHIN 5" FROM FRONT OF DRINKING FOUNTAIN
- (5) MOP SINK PER PLUMBING DRAWINGS
- TRANSFORMER PER ELECTRICAL DRAWINGS, PROVIDE CLEARANCE PER MANUF. SPEC.
- CONDENSING UNIT ON 4" SLAB PER MECHANICAL
- DRAWINGS, PROVIDE CLEARANCE PER MANUF. SPEC. (8) WATER HEATER PER PLUMBING DRAWINGS
- (10) EXPOSED DRUM DRIP PER PLUMBING DRAWINGS
- (11) LINE OF ROOF OVERHANG, REFER TO ROOF PLAN
- DRUM DRIP PER PLUMBING PLANS, PROVIDE 8"X8" ACCESS PANEL
- (13) 12"X48"X4" CONCRETE PAD
- LINE OF OVERHEAD ROLLING COUNTER DOOR, REFER TO DOOR SCHEDULE
- LINE OF OVERHEAD GARAGE DOOR, REFER TO DOOR
- 13"x16"x3/8" GALVANIZED STEEL HEAVY DUTY (16) BRACKET BOLTED TO CMU, REFER TO SECTION 1/A4.1
- FOR FURTHER INFORMATION SUPPORT BRACKET, REFER TO SECTION 1/A4.1 FOR
- FURTHER INFORMATION DOWNSPOUT PER ROOF PLAN, TYP. PROVIDE DARK
- BRONZE SLEEVE THRU CONCRETE SLAB FOR DISCHARGE PER CIVIL DRAWINGS
- 1" STONE INSET, CUT STONE AS REQ'D TO MAINTAIN AIR (9) SPACE, REFER TO ELEVATION A/A3.1 FOR FURTHER INFORMATION
- 20 LINE OF CANOPY ABOVE
- 3/16" E.I.F.S. EXPANSION JOINT FROM FLOOR TO CEILING & EXTEND ACROSS CEILING, REFER TO SHEET AT.I
- KNOX BOX: G.C. TO CONTACT OAK BROOK FIRE DEPARTMENT 630-368-5228 FOR PURCHASE \$ LOCATION FOR INSTALLATION ON BUILDING

# **FINISH PLAN LEGEND**





charles vincent george ARCHITECTS

> 1245 E. Diehl Rd. Suite 101 Naperville, Illinois 60563

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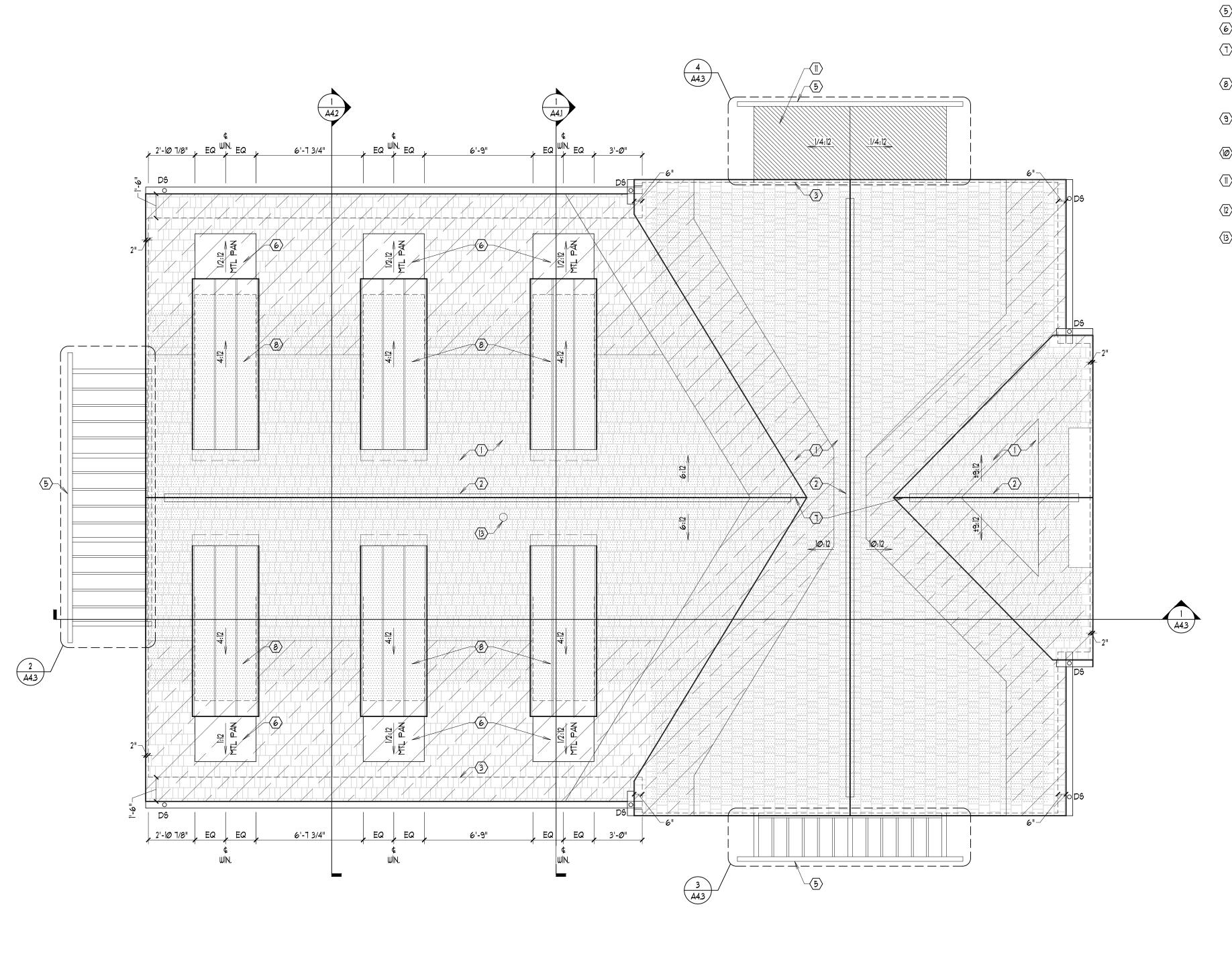
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PROJECT:

**FLOOR PLAN** 

DATE: 06/24	4/2022	PROJECT # <b>2022-053</b>
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## **ROOF PLAN GENERAL NOTES**

- A. ALL DOWNSPOUTS TO RUN TO SLEEVES THROUGH SLAB PER CIVIL DRAWINGS U.O.N. FINISH ON SLEEVES TO BE DARK BRONZE.
- B. INSTALL ICE AND WATER SHIELD 3'-0" FROM EACH SIDE OF ALL VALLEYS AND FROM FASCIA TO 2'-0"
- PAST WALL LINE AT EAVE ENDS OF ROOF. C. PROVÍDE 2" CONTÍNUOUS SOFFIT VENTS.

# **ROOF PLAN KEYED NOTES**

- ASPHALT SHINGLE ROOF ON (2) LAYERS 15\* BLDG FELT W/
  35 YR FULL SYSTEM WARRANTY. SEE EXTERIOR MATERIAL
  LEGEND (A3.1) FOR SHINGLE SPEC.
- (2) CONTINUOUS RIDGE VENT, TYP.
- 3 LINE OF WALL BELOW SHOWN FOR REFERENCE (4) CONTINUOUS RIDGE VENT, TYP.
- (5) CANOPY BELOW PER PLAN / EXTERIOR ELEVATIONS
- 6 PRE-FINISHED METAL WINDOW PAN, TYP. PER DTL. 3/A4.1
- (1) RIDGES TO ALIGN, TYP.
- PRE-FINISHED STANDING SEAM METAL ROOF W/ ICE AND WATER SHIELD THROUGHOUT ON (2) LAYERS 15\* BUILDING FELT, TYP, AT DONNER METAL ROOFS, INSTALL PER MFR. RECOMMENDATIONS, TYP.
- 9 NOT USED
- (10) NOT USED
- LOW SLOPE 'EPDM' ROOF, INSTALL PER MANUFACTURER'S WRITTEN RECOMENDATIONS, TYP.
- 5" HALF ROUND ALUM GUTTERS W/ 4" & DOWNSPOUTS AS
- (12) INDICATED ON EXTERIOR MATERIAL LEGEND (A3.1), SEE CIVIL DRAWINGS FOR DISCHARGE
- PIPE / EXHAUST PER PLUMBING / MECHANICAL DRAWINGS

PROVIDED ROOF VENTING: 11.4 SQ. FT. SHADE INDICATES LOW SLOPE EPDM

ROOF AREA: 2,288 SQ. FT.

ROOF. INSTALL PER MFR'S WRITTEN RECOMMENDATIONS ICE & WATER SHIELD

REQUIRED ROOF VENTING: 1:300 = 7.6 SQ. FT.

ROOF INSULATION

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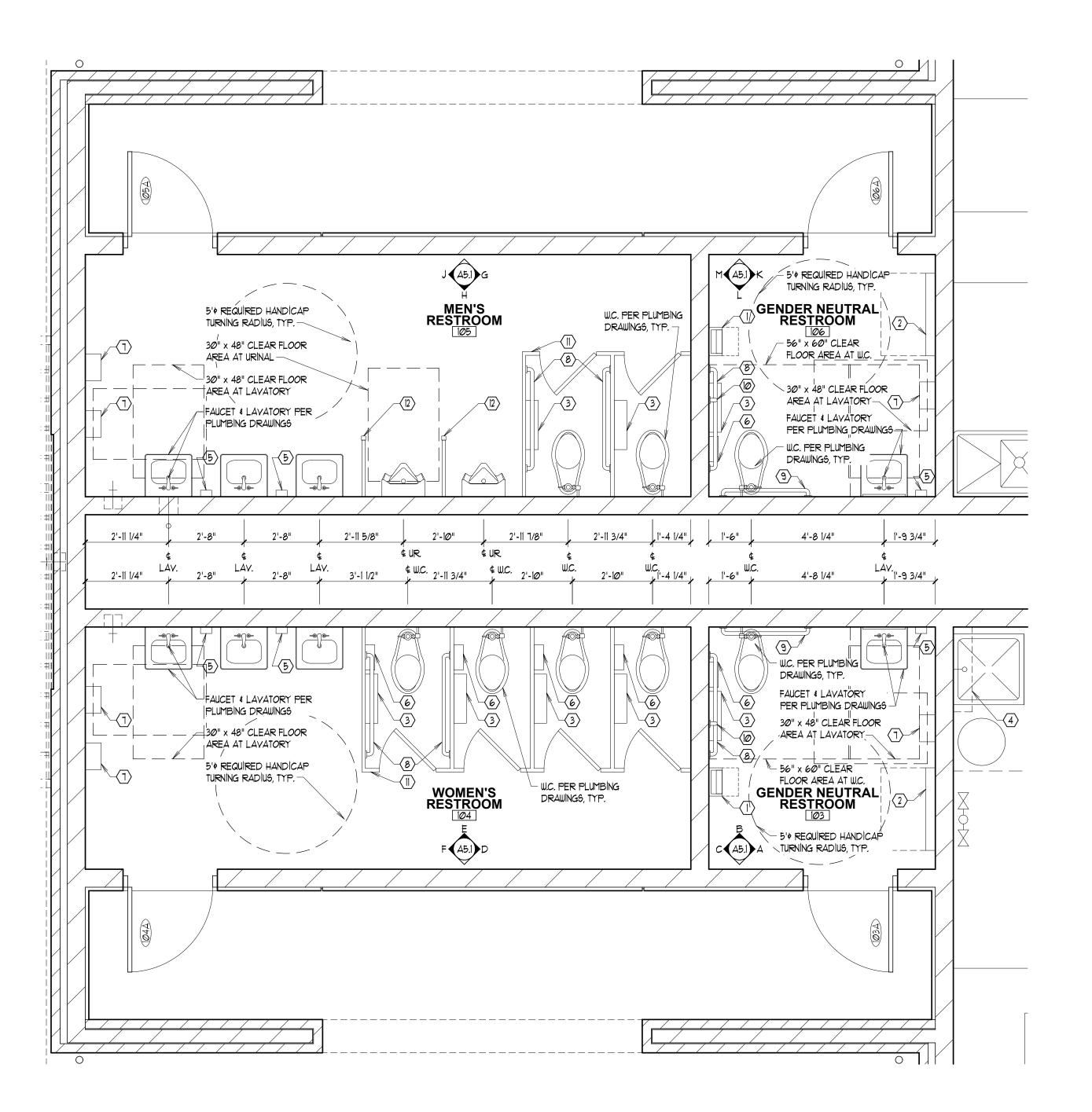
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DATE: <b>06/2</b> 4	4/2022	PROJECT # 2022-053
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ROOF PLAN

6CALE: 1/4" = 1'-0"

CODE	ITEM / DESCRIPTION	MODEL	MOUNTING HEIGHT	MANUFACTURER	REMARKS
1	WALL MOUNTED CHILD PROTECTION SEAT	KBIØ2-Ø1	B/ 14" AFF.	KOALA CORP.	
2>	WALL MOUNTED HORIZONTAL BABY CHANGING STATION	KB200-66-01	B/ 28 3/4" AFF.	KOALA CORP.	
3	SURFACE MOUNTED TOILET TISSUE DISPENSER				PROVIDED / INSTALLED BY OBPD
4	MOP & BROOM HOLDER W/ SHELF	B-224 x 36	T/ 72" AFF.	BOBRICK	
<b>(5)</b>	SURFACE MOUNTED SOAP DISPENSER				PROVIDED / INSTALLED BY OBPD
6	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	B-27Ø	T/ 28" AFF.	BOBRICK	
1	SURFACE MOUNTED HAND DRYER	XLERATOR HAND DRYER XL-5B	B/ 31" AFF. (ADA) B/ 44" AFF.	EXCEL	
8	GRAB BAR	B-6806 x 42	36" AFF.	BOBRICK	
<u>(9)</u>	GRAB BAR	B-6806 x 36	36" AFF.	BOBRICK	
$\langle D \rangle$	GRAB BAR	B-6806 x 18	36" AFF.	BOBRICK	
	FLOOR ANCHORED/ OVERHEAD BRACED TOILET PARTITION	SOLID PLASTIC (HDPE) NO SIGHT-55		ASI GLOBAL PARTITIONS	METALLIC BRONZE 9513
(12)	WALL MOUNTED URINAL SCREEN	60LID PLASTIC (HDPE) POST-MOUNTED SCREEN TO BE FLOOR MOUNTED		ASI GLOBAL PARTITIONS	METALLIC BRONZE 9513 .







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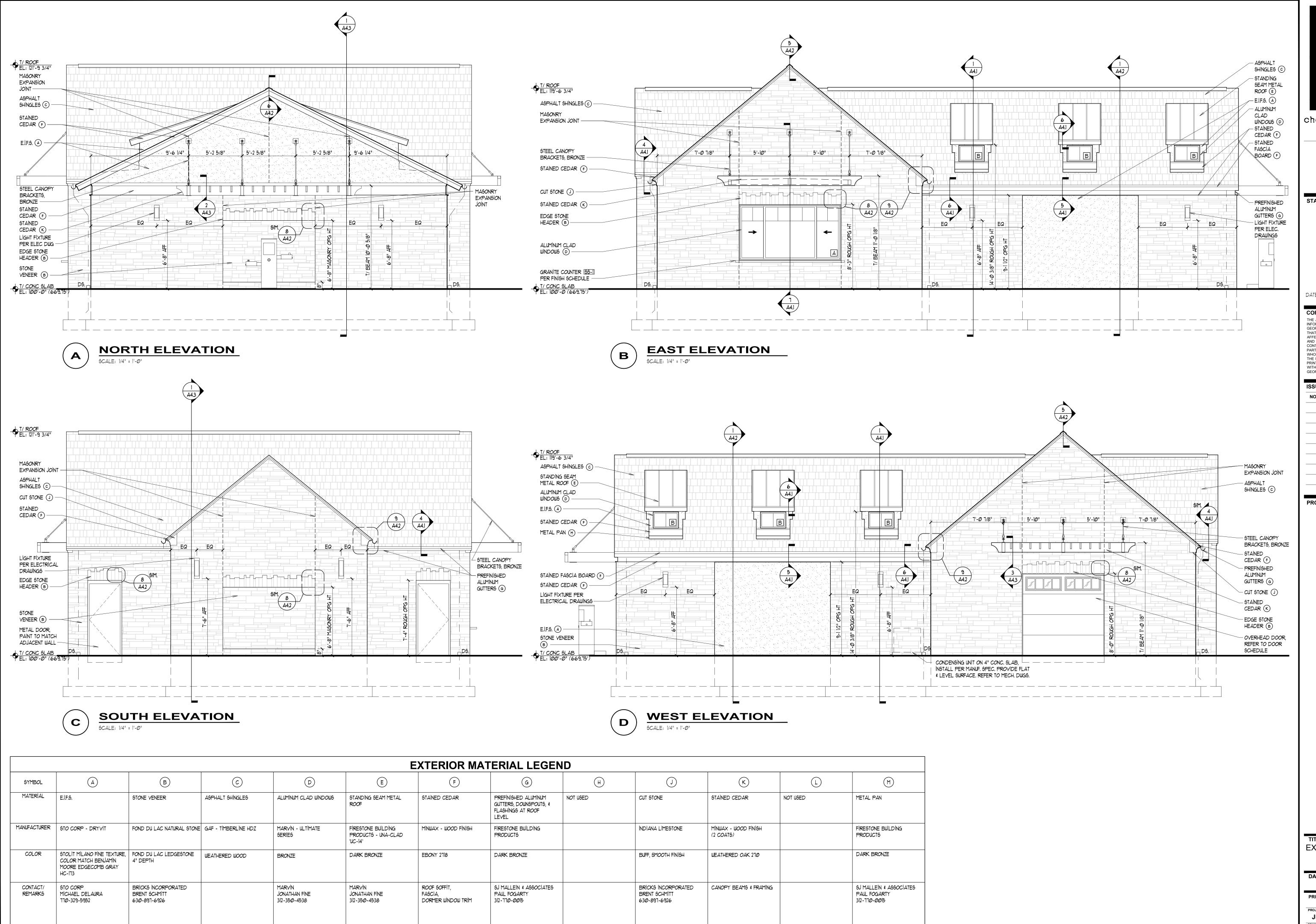
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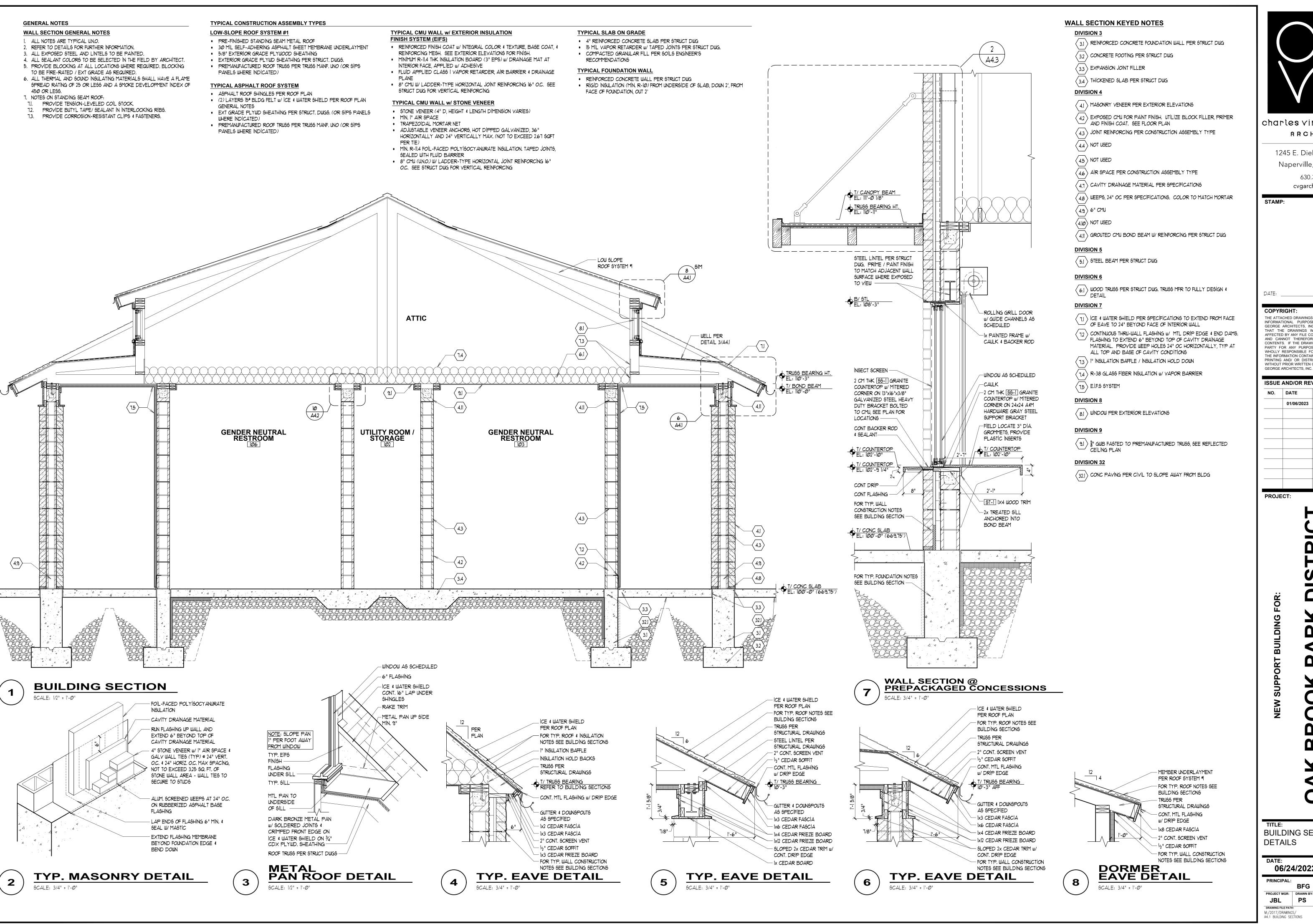
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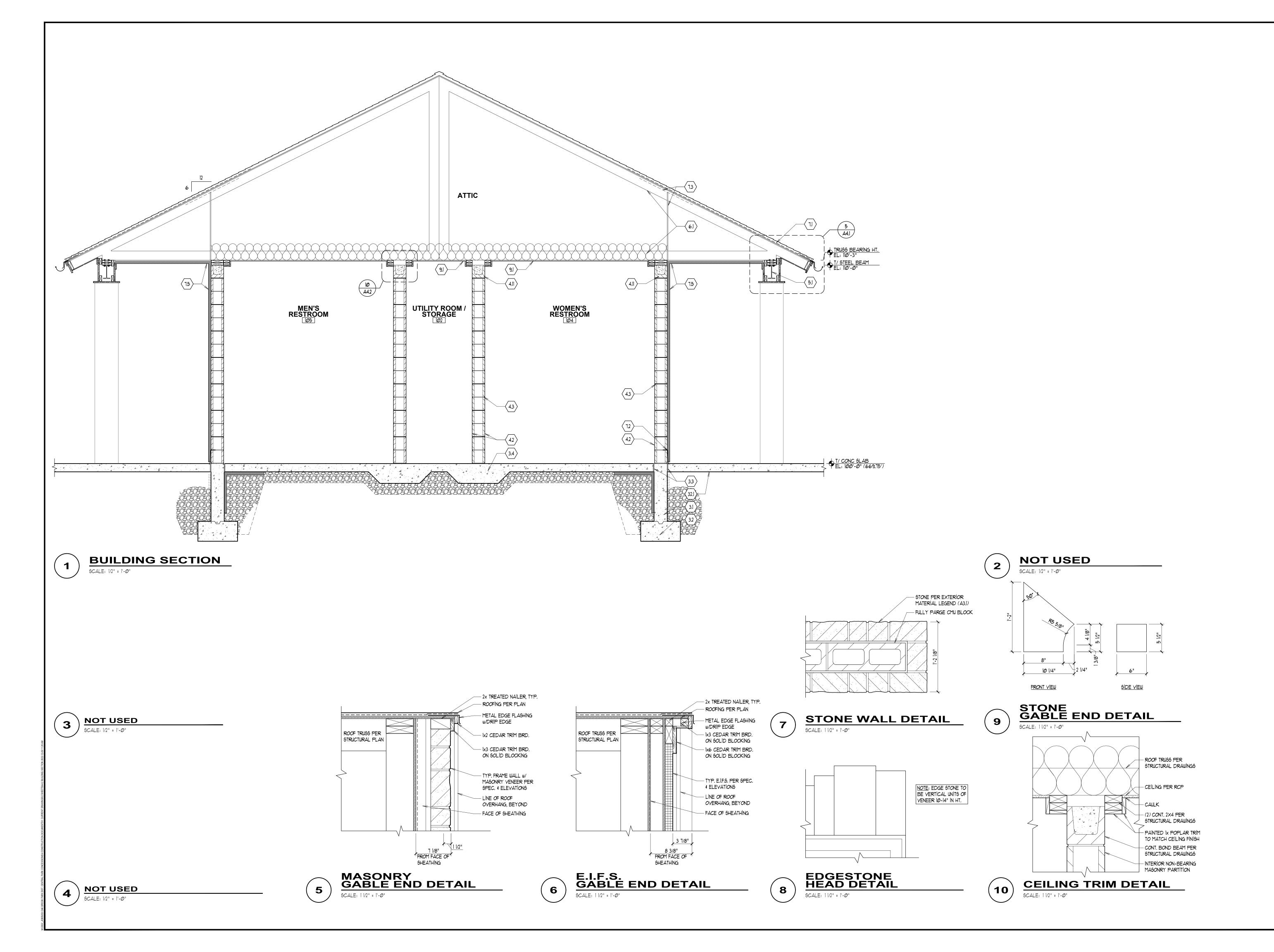
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**BUILDING SECTIONS &** DETAILS

PROJECT# 2022-053 06/24/2022 PRINCIPAL: PROJECT MGR: DRAWN BY: PS JBL





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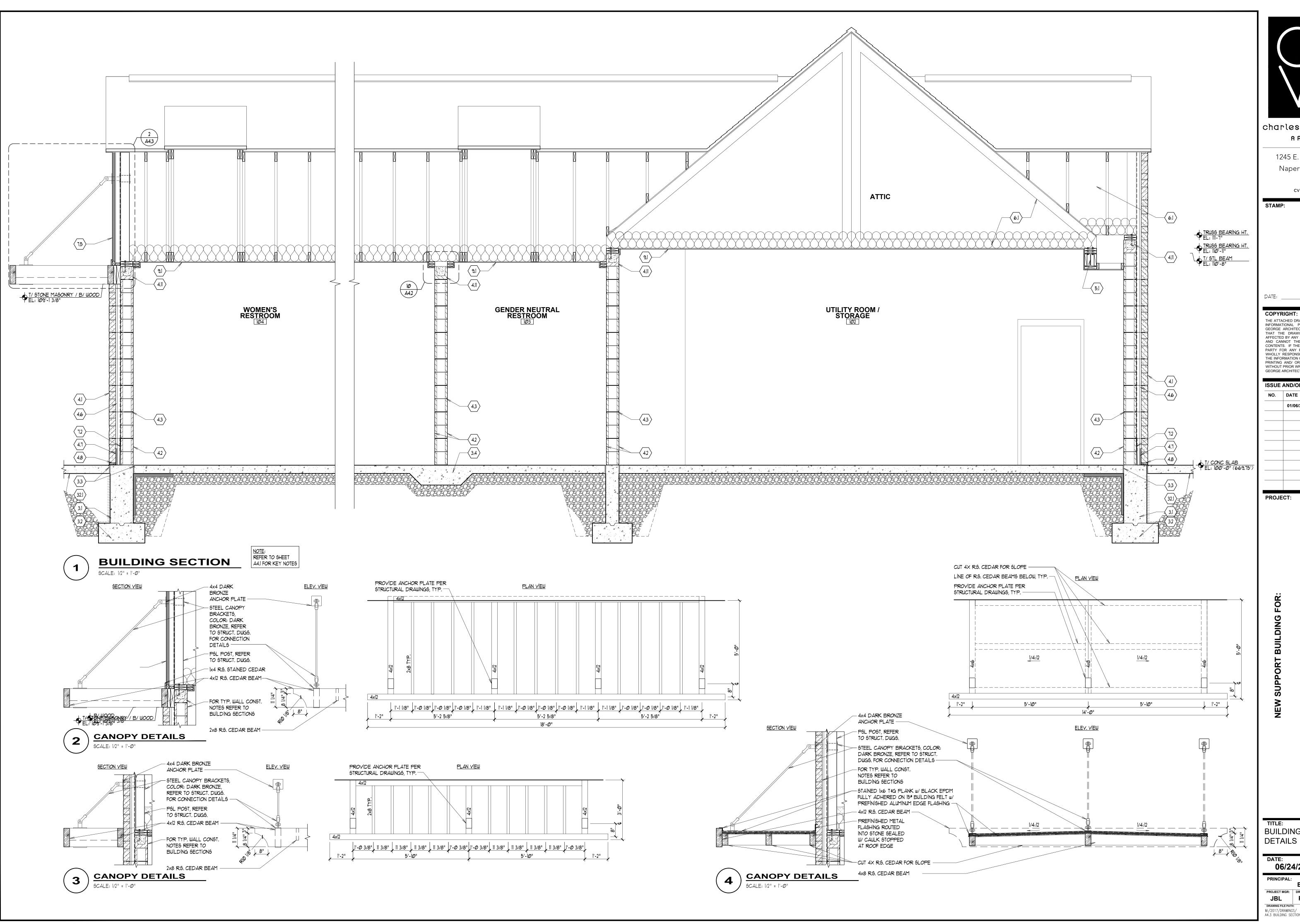
MEW SUPPORT BUILDING FOR:

ROOK PARK

AR DECOR LAN

TITLE:
BUILDING SECTION &
DETAILS

DATE: 06/24/2022		PROJECT # <b>2022-053</b>
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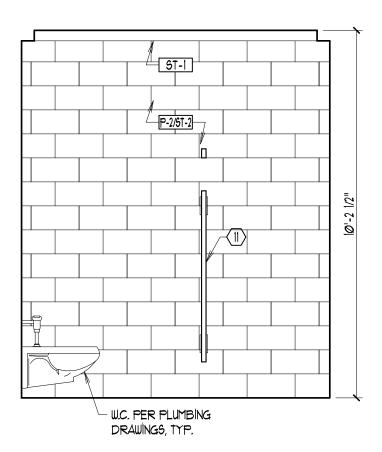
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**BUILDING SECTION &** 

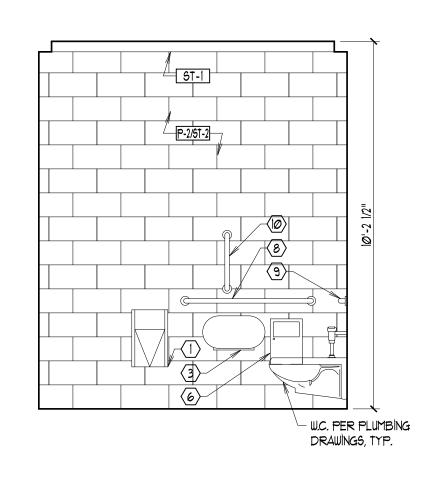
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WOMEN'S RESTROOM 104 SOUTH ELEVATION

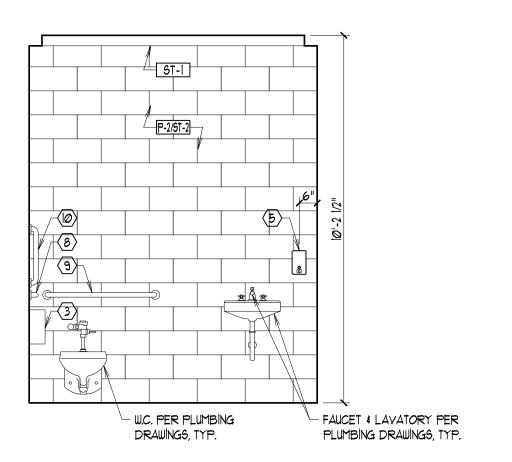
SEE A23 FOR TYP TOILET ACCESSORY KEYED NOTES



GENDER NEUTRAL RR
103 NORTH ELEVATION

9CALE: 3/8" = 1'-0"

SEE A2.3 FOR TYP TOILET ACCESSORY KEYED NOTES OPP. HAND GENDER NEUTRAL RESTROOM 106 ELEVATION "M"

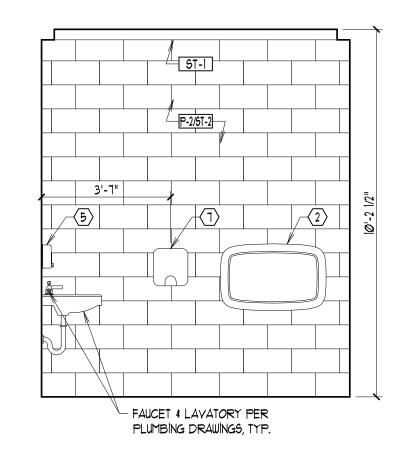


B GENDER NEUTRAL RR
103 EAST ELEVATION

GCALE: 3/8" = 1'-0"

GEE A23 FOR TYP TOIL ET

SEE A2.3 FOR TYP TOILET ACCESSORY KEYED NOTES OPP. HAND GENDER NEUTRAL RESTROOM 1006 ELEVATION "L"

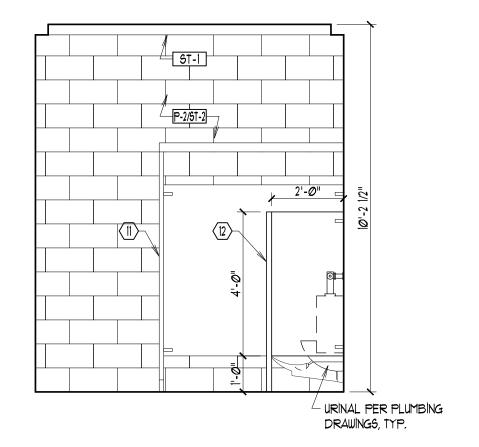


A

GENDER NEUTRAL RR 103 SOUTH ELEVATION

SCALE: 3/8" = 1'-0"

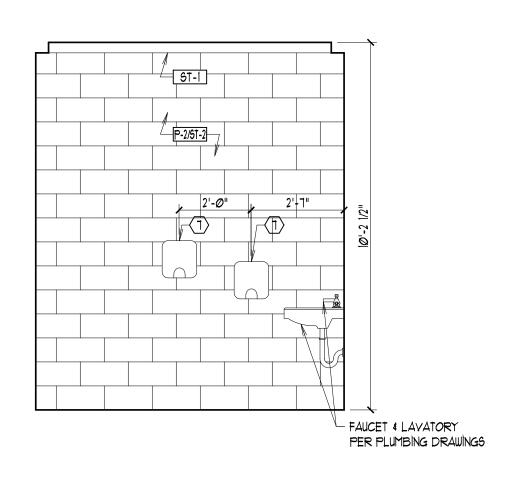
SEE A2.3 FOR TYP TOILET ACCESSORY KEYED NOTES OPP. HAND GENDER NEUTRAL RESTROOM 10/6 ELEVATION "K"



G MEN'S 105 SO SCALE: 3/8" = 1'-0"

MEN'S RESTROOM 105 SOUTH ELEVATION

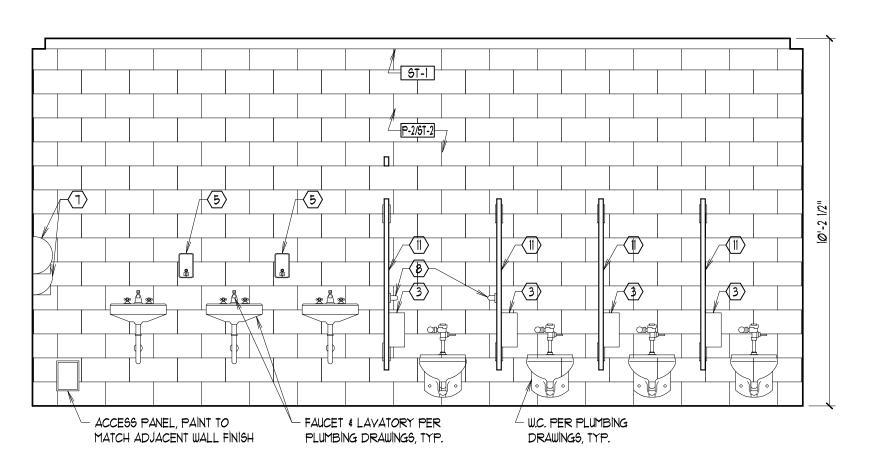
SEE A2.3 FOR TYP TOILET
ACCESSORY KEYED NOTES



F WOME 104 NO SCALE: 3/8" = 1'-0"

WOMEN'S RESTROOM 104 NORTH ELEVATION

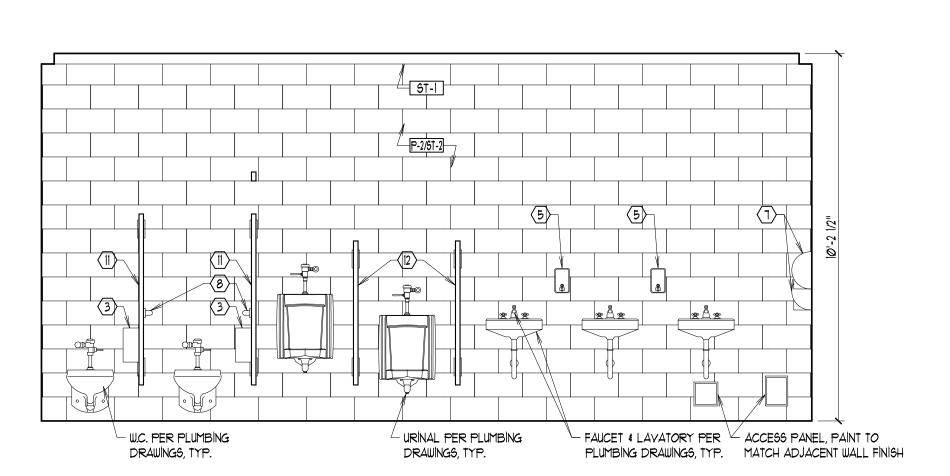
> SEE A2.3 FOR TYP TOILET ACCESSORY KEYED NOTES OPP. HAND MEN'S RESTROOM 105 ELEVATION "J"





WOMEN'S RESTROOM 104 EAST ELEVATION

> SEE A2.3 FOR TYP TOILET ACCESSORY KEYED NOTES





SCALE: 3/8" = 1'-0"

MEN'S RESTROOM 105 WEST ELEVATION

> SEE A2.3 FOR TYP TOILET ACCESSORY KEYED NOTES

charles vincent george

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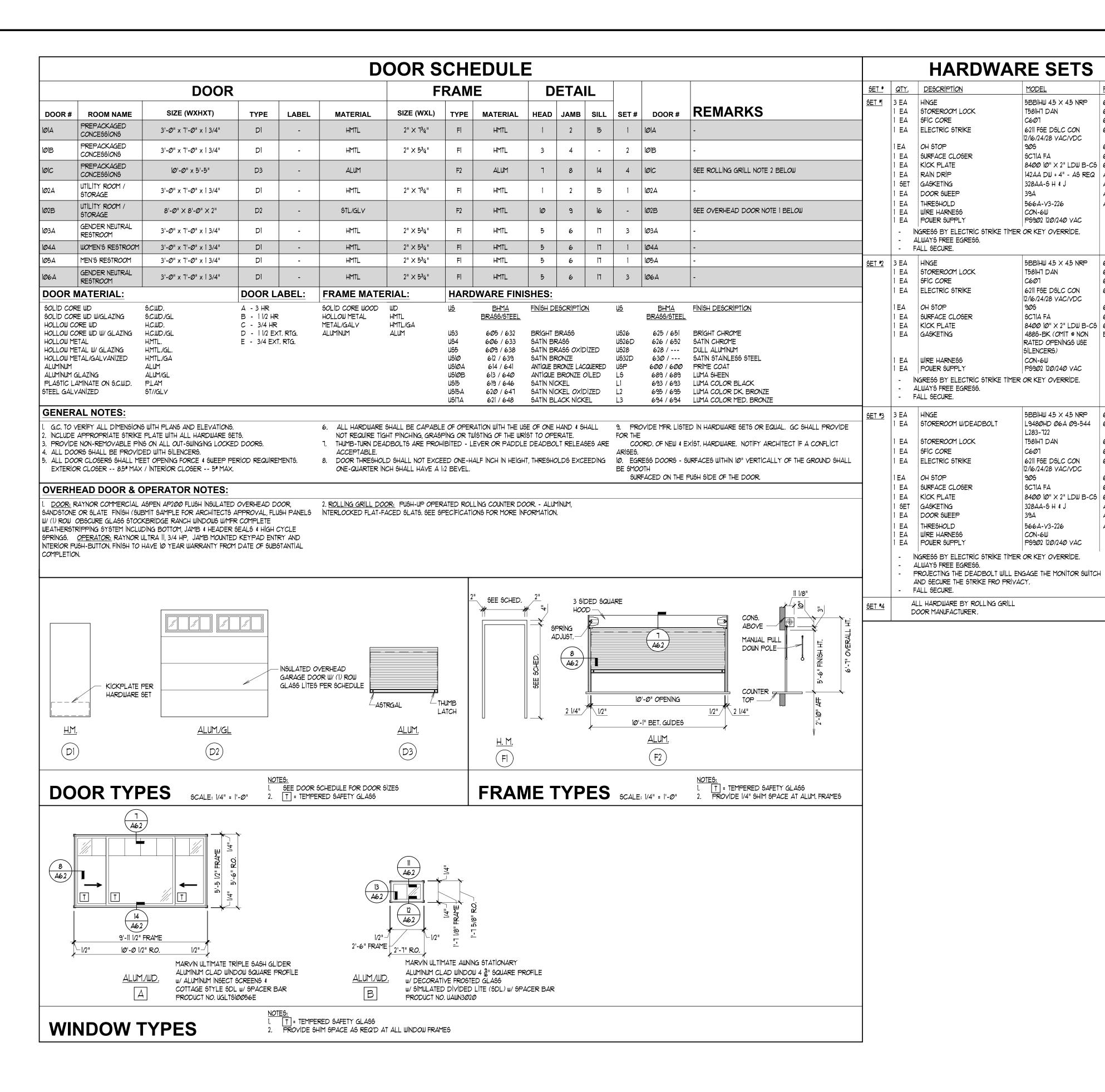
PROJECT:

DISTRICT

ENSINGTON ROAD

TITLE:
INTERIOR ELEVATIONS

DATE: 06/24/2022		PROJECT # 2022-053
PRINCIPAL:	BFG	SHEET:
PROJECT MGR:	DRAWN BY:	1
JBL	PS	A5.1
DRAWING FILE PATH: M:/2017/DRAWINGS/ A5.1 INTERIOR ELEVATIONS		





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5BBIHW 4.5  $\times$  4.5 NRP

6211 FSE DSLC CON

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| 8400 10" × 2" LDW B-C5 | 695 | IVE

142AA DW + 4" - AS REQ | AA | ZER

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4885-BK (OMIT @ NON BK ZER

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8400 10" × 2" LDW B-C5 | 695 | IVE

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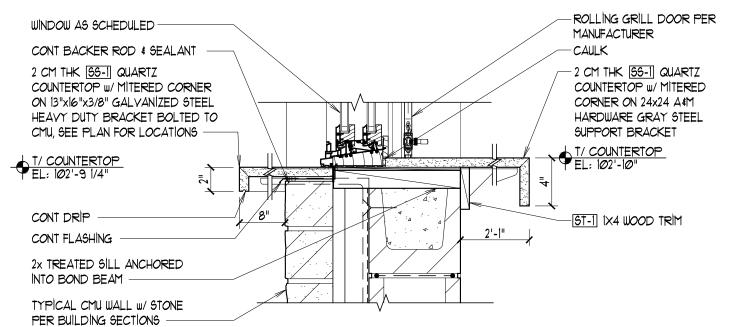
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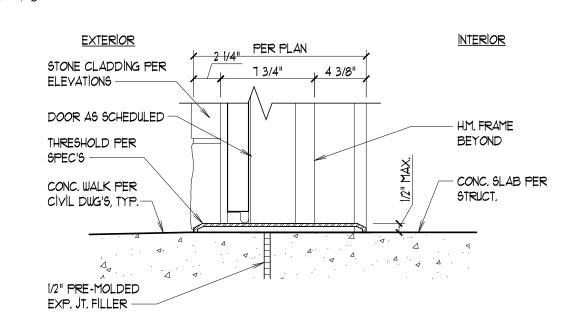
PROJECT:

**DOOR & WINDOW** SCHEDULE

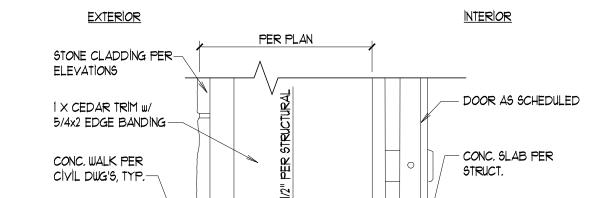
DATE: 06/24/2022		PROJECT # <b>2022-053</b>
PRINCIPAL:	BFG	SHEET:
PROJECT MGR:	DRAWN BY:	A6.1
DRAWING FILE PATH: M:/2017/DRAWINGS/ A6.1 DOOR & WINDOW SCHEDULE		



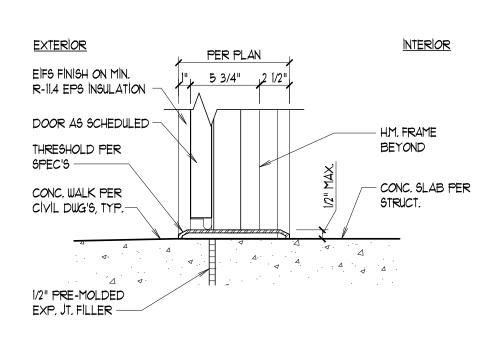
WINDOW & ROLLING SHUTTER SILL DETAIL 14



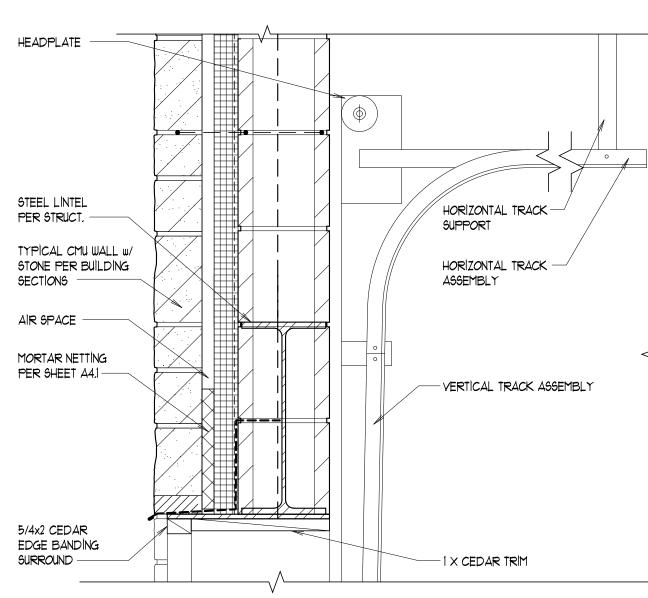
H.M. FRAME SILL DETAIL 15



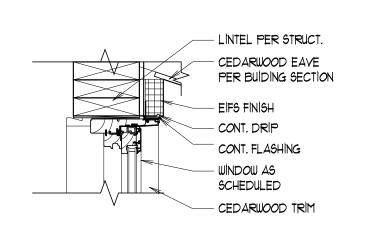
**OVERHEAD DOOR** SILL DETAIL 16



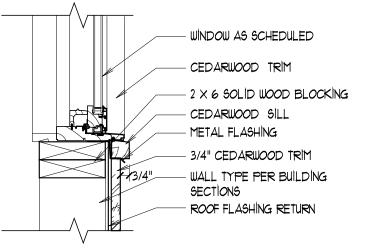
H.M. FRAME SILL DETAIL (17 SCALE: 1 1/2" = 1'-0"



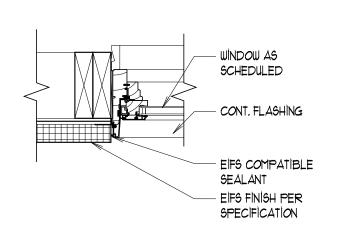
**OVERHEAD DOOR HEAD DETAIL** 



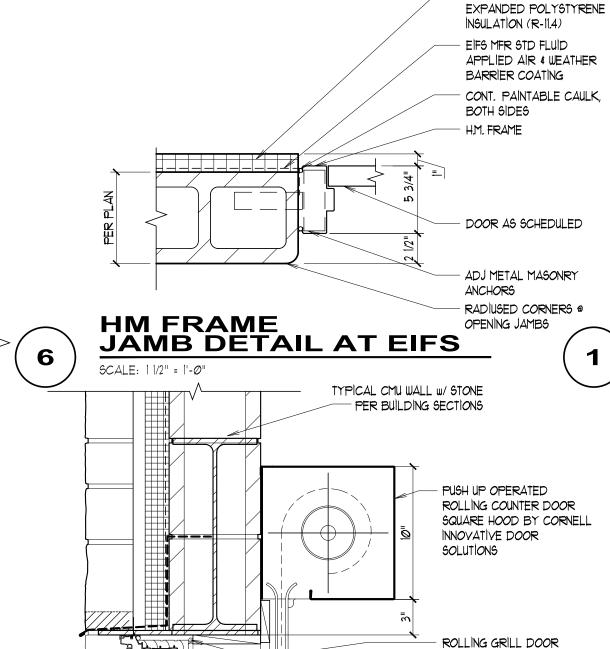
**DORMER WINDOW HEAD DETAIL** 



**DORMER WINDOW** SILL DETAIL SCALE: 1 1/2" = 1'-0"



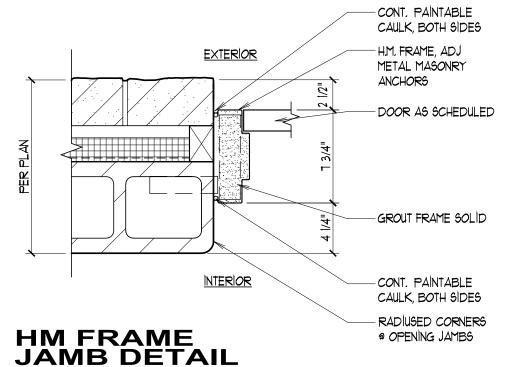
DORMER WINDOW JAMB DETAIL 13



SCALE: 1 1/2" = 1'-Ø"

PER PLAN EIFS FINISH COATS ON 3" STL, LINTEL PER STRUCT, PAINT EXPOSED TO MATCH FRAME -WEEPS @ 24" O.C. THRU WALL CONT. PAINTABLE FLASHING WITH S.S. CAULK & BACKER DRIP EDGE ROD-CONT. BACKER HM. FRAME -ROD & SEALANT DOOR AS SCHEDULED -

**HM FRAME HEAD DETAIL** 



PER PLAN

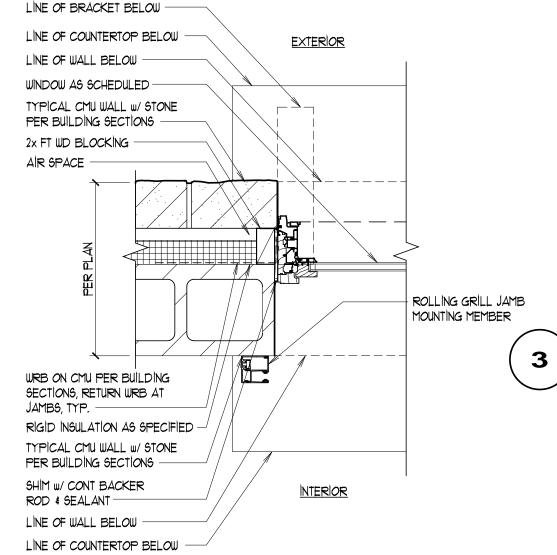
J" 5 <sup>3</sup>/<sub>4</sub>" J"

**ROLLING GRILL HEAD DETAIL** 

w/ GUIDE CHANNELS

IX PAINTED FRAME W/

CAULK & BACKER ROD



**HM FRAME HEAD DETAIL** SCALE: 1 1/2" = 1'-0"

STL. LINTEL PER

STRUCT, PAINT

EXPOSED TO

MATCH FRAME

SCALE: 1 1/2" = 1'-0"

STL, LÎNTEL PER

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EXPOSED TO

MATCH FRAME-

CONT. PAINTABLE

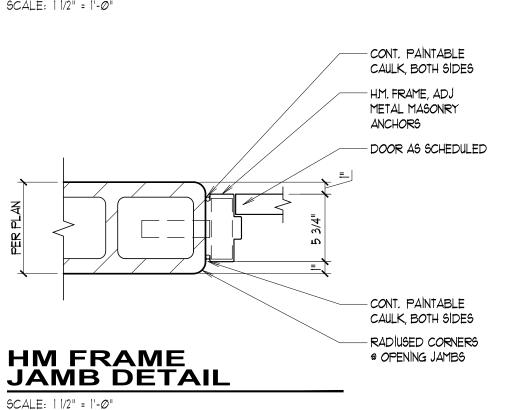
CAULK & BACKER

ROD -

H.M. FRAME,

DOOR AS SCHEDULED -

GROUT SOLID



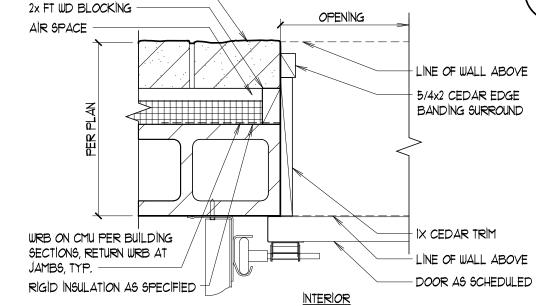
CONT. BACKER

ROD & SEALANT

- EÌFS FÌNÌSH *O*N MÌN.

- CONT FLASHING - CONT DRIP

R-11.4 EPS INSULATION



<u>EXTERIOR</u>

WINDOW & ROLLING

**GRILL JAMB DETAIL** 

8

9

TYPICAL CMU WALL W/ STONE

PER BUILDING SECTIONS -

**OVERHEAD DOOR** JAMB DETAIL

5

CONT. PAINTABLE CAULK & BACKER - CONT. BACKER ROD & SEALANT H.M. FRAME, GROUT SOLID -DOOR AS SCHEDULED -

HM FRAME HEAD DETAIL AT EIFS SCALE: 11/2" = 1'-0"



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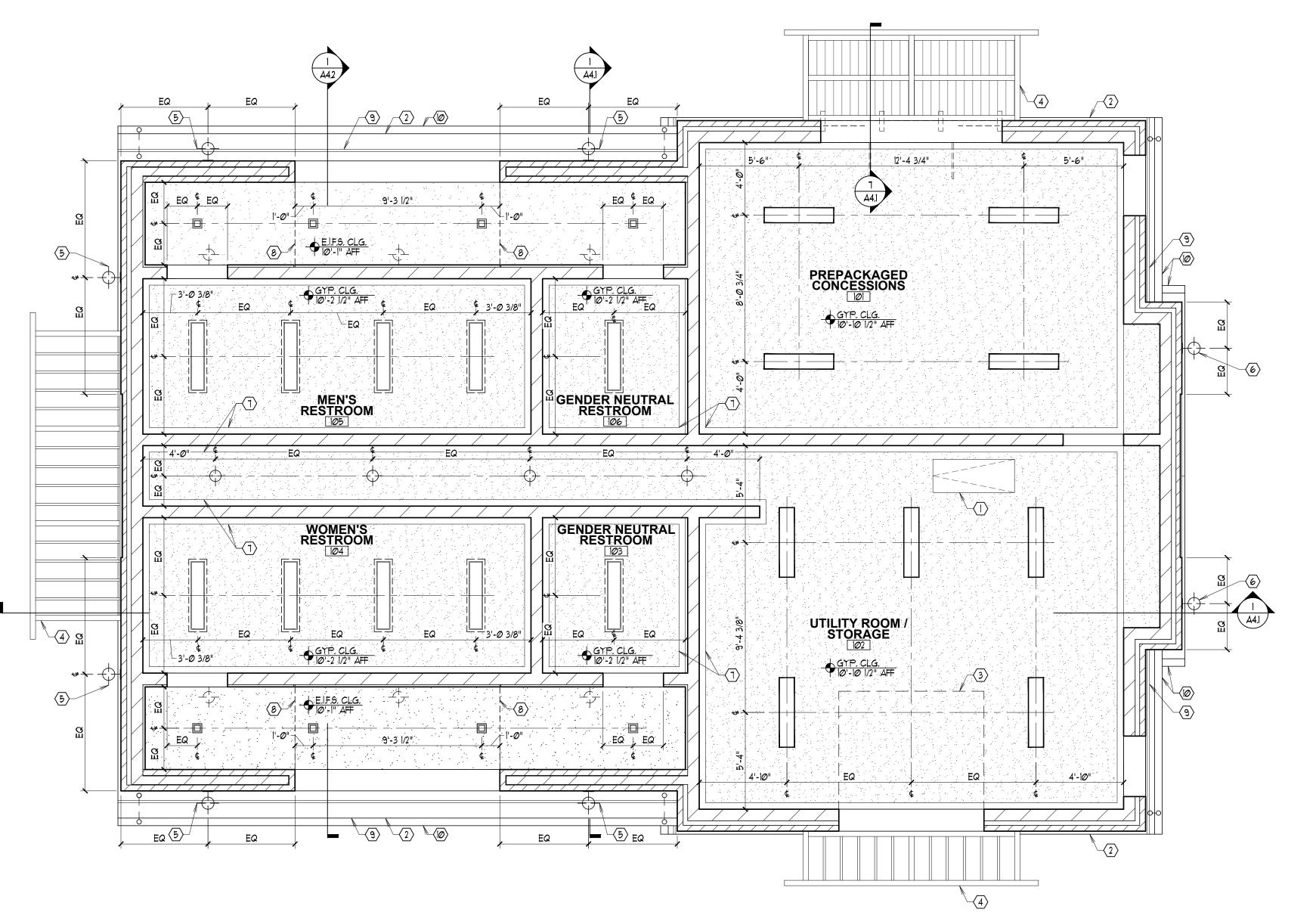
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PROJECT:

**DOOR & WINDOW DETAILS** 

DATE: 06/24/2022		PROJECT # 2022-053
PRINCIPAL:	BFG	SHEET:
PROJECT MGR:	DRAWN BY:	A6.2
DRAWING FILE PATH: M:/2022/DRAWINGS/ A6.2 DOOR & WINDOW DETAILS		

REFLECTED CEILING PLAN LEGEND				
SYMBOL	DESCRIPTION			
	SUPPLY GRILLE			
	LINEAR SUPPLY GRILLE			
	RETURN OR EXHAUST GRILLE			
	SQUARE RECESSED DOWNLIGHT			
0	SECURITY CAMERA			
<b></b>	CEILING ELECTRICAL BOX FOR LIGHT FIXTURE			
ф	DORMER LIGHT FIXTURE			
ф	WALL-MOUNTED LIGHT FIXTURE			
	1X4 LINEAR SURFACE MOUNTED LIGHT FIXTURE			
	1X4 LINEAR RECESSED LIGHT FIXTURE			
	E.I.F.S. FINISH			
	18 TYPE 'X' FIRE CODE GWB, TAPED & PAINTED			
	1"X6" WIDE CEDAR PLANK			



# REFLECTED CEILING PLAN GENERAL NOTES

- REFER TO ELECTRICAL DUGS FOR EMERGENCY LIGHTING, STROBES, HORNS, LIGHTING SCHEDULE, SWITCHING & CIRCUITING. EXACT LOCATION OF STROBES AND HORNS SHALL BE CONFIRMED W/ LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
- 2. REFER TO MECHANICAL DRAWINGS FOR HVAC DIFFUSERS & THERMOSTAT LOCATIONS. CONFIRM THE LOCATION OF THERMOSTATS & CONTROL DEVICES W/ THE ARCHITECT PRIOR
- TO INSTALLATION.

  3. COORDINATE LOCATION OF MECHANICAL FIXTURES SHOWN ON CEILING PLANS WITH MECHANICAL DRAWINGS & REPORT ANY

DISCREPANCIES TO THE ARCHITECT PRIOR TO INSTALLATION

4. REFER TO FINISH LEGEND FOR GWB FINISHES, TYP. UNO.

# REFLECTED CEILING PLAN KEYED NOTES

(1) ATTIC ACCESS PER FLOOR PLAN

 $\langle 2 \rangle$  Line of roof

(3) LINE OF OVERHEAD DOOR

(4) LINE OF CANOPY

(5) B/ WALL MOUNTED LIGHT FIXTURE = 6'-8" AFF

(6) B/ WALL MOUNTED LIGHT FIXTURE = 1'-6" AFF

7 POPLAR TRIM ON ALL EXPOSED SIDES OF CMU WALL PER DETAIL 10/A42

(8) E.I.F.S. EXPANSION JOINT, REFER TO NOTE 22 ON SHEET A2.1

9 VENT PER SECTIONS

(10) GUTTER W/ DOWNSPOUTS PER SPECIFICATIONS



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# ISTRICT

5 KENSINGTON RO

TITLE:
REFLECTED CEILING PLAN

DATE: <b>06/2</b> 4	4/2022	PROJECT # <b>2022-053</b>
PRINCIPAL:	BFG	SHEET:
PROJECT MGR: DRAWN BY:  JBL PS		A7.1
DRAWING FILE PATH: M:/2017/DRAWINGS/ A7.1 REFLECTED CEILING PLAN		-

# **GENERAL STRUCTURAL NOTES**

## DESIGN AND LOADING:

1. STRUCTURAL DESIGN OF THIS BUILDING IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2015 AND LOCAL AMENDMENTS.

2. ROOF DEAD LOAD:

ROOFING 2 PSF **MEMBRANE** 1 PSF \_ INSULATION 5 PSF \_ SHEATHING 2 PSF \_ TRUSSES 3 PSF \_ CEILING 2 PSF \_ MISC/MECH 5 PSF

20 PSF

– 20 PSF

3. LIVE LOADS: A. ROOF

4. SNOW LOADS: A. GROUND SNOW LOAD - Pg = 25 PSF B. FLAT-ROOF SNOW LOAD - Pf = 20 PSF SNOW EXPOSURE FACTOR - Ce = 1.0 SNOW LOAD IMPORTANCE FACTOR - I = 1.0

> THERMAL FACTOR - Ct = 1.0 SLOPPED-ROOF FACTOR - Cs = 1.0 - Pd = 30 PSF (w=7 FT) G. SNOW SURCHARGE LOAD

H. UNBALANCED SNOW LOADS: - WINDWARD = 5 PSF

- LEEWARD (RIDGE TO 5.25 FT) = 33 PSF - LEEWARD (5.25 FT TO EAVE) = 17.5 PSF

5. WIND LOADS:

A. ULTIMATE WIND SPEED – 115 MPH - 89 MPH R. NOMINAL WIND SPEED IMPORTANCE FACTOR - 1.0 RISK CATEGORY - 11 EXPOSURE CATEGORY

F. WIND LOAD (MWFRS)— ULTIMATE — <u>+</u>28.4 PSF WIND LOAD (CC) - ULTIMATE - -28.8/+26.3 PSF (50 S.F.) WALLS TYP. -33.1/+26.3 PSF (50 S.F.) WALLS CORNER − −33.3/+16.0 PSF (50 S.F.) ROOF TYP. − −37.3/+16.0 PSF (50 S.F.) ROOF EDGE

- -60.9/+16.0 PSF (50 S.F.) ROOF CORNER

6. SEISMIC LOADS:

A. RISK CATEGORY B. SPECTRAL RESPONSE COEFF. - Sps = 0.159  $S_{D1} = 0.102$ 

C. SITE CLASS . SEISMIC DESIGN CATEGORY

SEISMIC-FORCE-RESISTING SYSTEM - INTERMEDIATE REINFORCE MASONRY SHEAR WALLS ANALYSIS PROCEDURE

G. SEISMIC IMPORTANCE FACTOR - IE = 1.0 H. SEISMIC RESPONSE COEFFICIENT - Cs = 0.046 I. RESPONSE MODIFICATION FACTOR - R = 3.5

EQUIVALENT LATERAL FORCE ANALYSIS

# **FOUNDATIONS:**

- 1. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF AS RECOMMENDED BY GEOCON PROFESSIONAL SERVICES IN THEIR REPORT 22-G0696 DATED JUNE 6, 2022.
- 2. ANY LOCALIZED SOFT SOIL AND/OR FILL ZONES ENCOUNTERED AT THE BEARING LEVELS SHOULD BE FURTHER EXCAVATED TO ADEQUATE SUPPORT SOILS AND THE CAVITY BACKFILLED WITH LEAN CONCRETE, STONE OR APPROVED STRUCTURAL FILL OR THE FOOTING MAY BE POURED AT THE EXCAVATED DEPTH. THE CONTRACTORS BID SHALL PROVIDE FOR ALL WORK REQUIRED TO FOUND THE BUILDING AT THE BEARING ELEVATIONS NOTED IN THE REFERENCED SOILS REPORT. CONTRACTOR SHALL ALSO PROVIDE UNIT COSTS FOR ADDITIONAL WORK SHOULD THE ACTUAL BEARING LEVELS ENCOUNTERED BE FOUND TO BE BELOW THOSE NOTED IN THE SOILS REPORT. CONVERSELY, UNIT COSTS SHALL APPLY TO LESS WORK, SHOULD THE BEARING ELEVATIONS BE FOUND TO BE ABOVE THOSE NOTED IN THE SOILS REPORT. BEARING ELEVATIONS USED AS A BASIS FOR THE CONTRACTORS BID SHALL BE SPECIFIED IN
- 3. ALL COMPACTED FILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE PROJECT SOILS ENGINEER. DEPTHS OF LIFTS, COMPACTION DENSITIES, MOISTURE CONTENTS. ETC. SHALL BE AS SPECIFIED BY THE PROJECT SOILS ENGINEER.
- 4. ALL SLAB-ON-GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED TO FINISHED GRADE WITH APPROVED FILL MATERIAL. INSPECTION, REVIEW AND COMPACTED FILL REQUIREMENTS SHALL BE BY THE PROJECT SOILS ENGINEER. CONSULT THE PROJECT SOILS ENGINEER FOR ADDITIONAL INFORMATION AND/OR REQUIREMENTS.
- 5. PLACE BACKFILL EQUALLY ON BOTH SIDES OF FOUNDATION WALLS AND/OR GRADE
- 6. ALL EXTERIOR FOOTINGS SHALL BEAR AT FROST DEPTH BELOW FINISHED GRADE AT A MINIMUM, UNLESS NOTED OTHERWISE.
- 7. ALL BEARING STRATA MUST BE PROTECTED FROM FREEZING. THE CONTRACTOR SHALL BACKFILL AND/OR PROVIDE PROTECTION TO PREVENT FROST PENETRATION BELOW THE CONCRETE BEARING ELEVATIONS. ANY FROZEN SOIL BELOW THE FOUNDATION BEARING LEVEL MUST BE REMOVED.

# CAST-IN-PLACE CONCRETE AND REINFORCING:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST EDITIONS.
- 2. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) CONCRETE AND SHALL OBTAIN MINIMUM 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS:

SPREAD FOOTINGS - 3000 PSI FOUNDATION WALLS - 3000 PSI SLAB-ON-GRADE 4000 PSI

- 3. THE COMPRESSIVE STRENGTH OF ALL GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL MATCH THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE SUBSTRATE.
- 4. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE WITH SPECIFIED STRENGTH 5000 PSI OR LESS, SHALL BE AIR ENTRAINED 6%, WITH A TOLERANCE OF 1.5%, AS DELIVERED.
- 5. CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN ANY CONCRETE.
- 6. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACING. IF VIBRATORS ARE USED, DO NOT OVER-VIBRATE OR TRANSPORT CONCRETE ALONG THE FORMS BY VIBRATING.
- 7. TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301 SPECIFICATION OR PER ARCHITECTURAL SPECIFICATIONS.

# CAST-IN-PLACE CONCRETE AND REINFORCING (continued):

- REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM SPECIFICATION A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARDS 315 AND 315R.
- 9. WELDING OF REINFORCING BARS IS NOT ALLOWED.
- 10. THE CONCRETE COVER PROVIDED FOR ALL REINFORCEMENT SHALL COMPLY WITH ACI 318, LATEST EDITION BUT SHALL NOT BE LESS THAN THE FOLLOWING MINIMUM CONCRETE COVER FOR THE REINFORCEMENT IN ALL CAST-IN-PLACE CONCRETE WORK: A) CONCRETE CAST AGAINST AND PERMANENTLY

- 3" EXPOSED TO EARTH B) FORMED CONCRETE EXPOSED PERMANENTLY TO EARTH OR WEATHER #5 BARS OR SMALLER - 1 1/2" #6 BARS OR GREATER

- 11. COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-306. HOT WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-305.
- 12. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
- 13. REINFORCEMENT SHALL BE CONTINUOUS ACROSS JOINTS AND AROUND CORNERS OR SPLICE BARS SHALL BE PROVIDED IN ACCORDANCE WITH ACI STANDARDS 315 AND 315R. CORNER BARS SHALL BE PROVIDED AT ALL WALL CORNERS, EQUAL TO THE HORIZONTAL WALL REINFORCEMENT.
- 14. REINFORCEMENT SHALL BE CONTINUOUS ACROSS JOINTS AND AROUND CORNERS OR SPLICE BARS SHALL BE PROVIDED IN ACCORDANCE WITH ACI STANDARDS 315 AND 315R. CORNER BARS SHALL BE PROVIDED AT ALL WALL CORNERS, EQUAL TO THE HORIZONTAL WALL REINFORCEMENT.
- 15. FOUNDATION WALLS SHALL HAVE A MINIMUM OF TWO (2) #5 BARS TOP AND BOTTOM CONTINUOUS, UNLESS OTHERWISE SHOWN OR NOTED.
- 16. PLACE TWO (2) #5 BARS (EACH FACE) WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE, UNLESS OTHERWISE SHOWN OR NOTED.
- 17. CONTROL JOINTS FOR SLABS—ON—GRADE SHALL BE IN A SQUARE OR RECTANGULAR PATTERN AND SHALL BE SPACED NOT MORE THAN 15 FT. ON CENTER, UNLESS NOTED OTHERWISE ON PLAN.
- 18. VAPOR RETARDER SHALL BE 15 MIL, MINIMUM, AND BE INSTALLED IN MAXIMUM SHEET SIZE AND A MINIMUM JOINTS, PROVIDE A MINIMUM OF 6" LAPS BETWEEN ADJACENT SHEETS. CARE SHALL BE EXERCISED TO PREVENT DAMAGE OR RUPTURE DURING CONSTRUCTION. SEE SOILS REPORT FOR ADDITIONAL INFORMATION. IF POSSIBLE, THE FOUR INCH (4") MINIMUM COMPACTED SUBBASE SHALL BE PLACED OVER THE VAPOR BARRIER (TO MINIMIZE SLAB CURLING).
- 19. CONSTRUCTION MANAGER/GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK, AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR PROPER LOCATION BEFORE PLACING CONCRETE. PITCH CONCRETE SLABS AS REQUIRED TO ALL FLOOR DRAINS.
- 20. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION. THIS INCLUDES PUMPING THROUGH ALUMINUM PIPE.
- 21. EMBEDMENT LENGTHS AND LAPS SHALL BE AS REQUIRED BY ACI 318. UNLESS OTHERWISE NOTED, MINIMUM LAP TO BE 36 BAR DIAMETERS

## STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE", LATEST EDITIONS.
- STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS (UNLESS OTHERWISE

W & WT SHAPES - A992

ANGLES, CHANNELS & PLATES - A-36 STRUCTURAL TUBING A-500 GRADE B

- F1554 (Fy = 36 KSI) ANCHOR BOLTS STRUCTURAL BOLTS – A-325 TYPE N

- STUD TYPE, BY HILTI, OR EQUIVALENT. EXPANSION ANCHORS WELDING ELECTRODES − E−70XX
- BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION," LATEST EDITION AND SHALL BE MADE BY QUALIFIED "CERTIFIED" WELDERS. PROVIDE MINIMUM WELD SIZE PER AISC J2.1 AND J2.2.

3. ALL WELDING ELECTRODES SHALL BE E-70XX. ALL SHOP AND FIELD WELDING SHALL

- 4. TYPICAL BEAM CONNECTIONS SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS. UNLESS OTHERWISE SHOWN. ALL FIELD CONNECTIONS, EXCEPT WHERE SHOWN WELDED, SHALL BE BOLTED WITH 3/4" DIAMETER HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325N, UNLESS OTHERWISE NOTED. CONNECTIONS SHALL BE DESIGNED FOR 60% OF THE TOTAL ALLOWABLE UNIFORM LOAD (IN KIPS) DERIVED FROM THE AISC MANUAL'S TABLE OF "UNIFORM LOAD CONSTANTS" FOR NON-COMPOSITE BEAMS.
- 5. SINGLE PLATE FRAMING CONNECTIONS MAY BE USED IF DESIGNED ACCORDING TO APPENDIX C OF THE AISC MANUAL "DETAILING FOR STEEL CONSTRUCTION," LATEST EDITION. BEAM END REACTIONS SHALL BE DETERMINED AS SPECIFIED ABOVE.
- 6. ALL STEEL TO STEEL CONNECTIONS SHALL BE BOLTED OR WELDED.
- UNLESS OTHERWISE NOTED, ALL EXPOSED STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF ZINC RICH PRIMER, AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
- UNLESS SPECIFICALLY EXCLUDED. ALL STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
- 9. UNLESS OTHERWISE SPECIFIED, STEEL WORK WHICH WILL BE CONCEALED BY INTERIOR BUILDING FINISH OR WILL BE IN CONTACT WITH CONCRETE NEED NOT BE PAINTED.
- 10. ALL PORTIONS OF STEEL COLUMNS EXPOSED TO EARTH SHALL HAVE A HEAVY COATING OF ASPHALTIC PAINT, SEE THE ARCHITECTURAL SPECIFICATIONS FOR
- 11. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF THE CONNECTED MEMBERS. CONNECTION DETAILS INDICATED IN THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE FABRICATOR'S CONNECTION DESIGN. SUBMIT CONNECTION CALCULATIONS SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE WITH JURISDICTION.

## **WOOD TRUSSES:**

- WOOD TRUSS SPACING IS TO BE 24" ON CENTER, UNLESS NOTED OTHERWISE. ALL ROOF TRUSSES AND WALL STUDS ARE TO ALIGN.
- WOOD ROOF TRUSSES ARE TO BE DESIGNED FOR THE CODE LIVE LOADS AS SPECIFIED IN THE FIRST SECTION ON THIS SHEET; THIS LOAD IS TO BE APPLIED TO THE TOP CHORD OF THE TRUSS. IN ADDITION, THE FOLLOWING SUPERIMPOSED SERVICE LOADS ARE TO BE APPLIED:

TOP CHORD DEAD LOAD = PSF (FLOORING, TOPPING, DECKING, TEC.)BOTTOM CHORD DEAD LOAD = 5 PSF (CEILING, MISC)

3. THE MAXIMUM ALLOWABLE DEFLECTIONS FOR THE WOOD ROOF TRUSSES ARE AS FOLLOWS:

L/240 UNDER TOTAL LOAD L/360 UNDER LIVE LOAD

- WOOD TRUSS MANUFACTURER NOTE: MAXIMUM DEFLECTION LIMITATIONS (INCLUDING LONG-TERM DEFLECTIONS) ARE CRITICAL FOR ALL TRUSSES SUPPORTING MOVABLE PARTITIONS. GENERAL CONTRACTOR SHALL COORDINATE DEFLECTION CRITERIA WITH THE SELECTED PARTITION MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- WOOD TRUSSES: SHOP DRAWINGS AND CALCULATIONS BEARING A REGISTERED ENGINEER'S CERTIFICATION SHALL BE SUBMITTED FOR REVIEW AND SHALL CONTAIN THE FOLLOWING INFORMATION FOR EACH TRUSS TO BE PROVIDED:

DETAIL OF TRUSS SHOWING SIZE OF MEMBERS. SPECIES AND WORKING STRESS OF LUMBER USED. LOADING CONDITIONS USED IN DESIGN. CALCULATED FORCES FOR EACH MEMBER. CONNECTOR SIZES, CAPACITIES AND LOCATIONS.

- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO INSURE PROPER ALIGNMENT AND STABILITY OF TRUSSES DURING CONSTRUCTION PER THE TRUSS PLATE INSTITUTE'S PUBLICATION. "BRACING WOOD TRUSSES - COMMENTARY AND RECOMMENDATIONS"
- GALVANIZED OR COATED CONNECTORS SHALL BE USED FOR ALL OUTDOOR WOOD INSTALLATIONS.
- ALL EXTERIOR EXPOSED WOOD SHALL BE TREATED AS PER ARCHITECTURAL SPECIFICATIONS.
- TRUSSES AND TRUSS PLATE CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES", TRUSS PLATE INSTITUTE, FOR THE LOADS AS INDICATED ON THE PLANS.
- 10. TRUSSES CAN BE SINGLE OR DOUBLE AS REQUIRED. DOUBLE TRUSSES SHALL BE SHOP CONNECTED TO PERFORM AS A MONOLITHIC UNIT.
- 11. WOOD ROOF TRUSSES SHALL HAVE 2x6 MINIMUM TOP CHORDS. CONNECTIONS SHALL BE DESIGNED FOR 133% OF THE CALCULATED REQUIRED FORCES.
- 12. TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND BEARING CONDITIONS.

## WOOD:

MINIMUM LUMBER STRESS GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:

SPRUCE PINE FIR NO.1/NO.2 OR DOUGLAS FIR LARCH NO. 2

2. PLYWOOD:

v. GRADE: C-C EXTERIOR

vi. MODULUS OF ELASTICITY - 1,800,000 PSI vii. MINIMUM WORKING STRESSES DRY USE CONDITION:

a. EXTREME FIBER IN BENDING, Fb = 2000 PSI

b. TENSION IN PLANE OF PLYS, Ft = 2000 PSIc. COMPRESSION IN PLANE OF PLYS, Fc = 1640 PSI

d. SHEAR IN PLANE PERPENDICULAR TO PLYS, Fv = 190 PSI

e. SHEAR IN PLANE OF PLYS. Fs = 75 PSI

f. BEARING PERPENDICULAR TO PLANE OF PLYS, Fc = 340 PSI

- 3. PLATES BEARING ON MASONRY SHALL BE PRESSURE TREATED. SILLS SHALL BE BOLTED WITH 1/2" DIAMETER x 8" LONG BOLTS AT 4'-0" O.C., 12" MINIMUM FROM ENDS, OR 2 BOLTS MINIMUM PER PIECE. WHERE DIFFERENT BOLT SIZES AND/OR SPACINGS ARE
- 4. COMMON NAILS SHALL BE USED.

INDICATED, THEY SHALL GOVERN.

- 5. LAG BOLTS (& SCREWS) SHALL BE PREDRILLED TO SHANK DIAMETER AND FULL DEPTH AND SCREWED (NOT DRIVEN) INTO PLACE.
- 6. STANDARD CUT WASHERS SHALL BE PLACED UNDER HEADS AND NUTS OF ALL BOLTS BEARING ON WOOD. AND UNDER HEADS OF LAG BOLTS. ONE CUT WASHER SHALL BE USED FOR BOLTS CONNECTING WOOD LEDGERS TO CONCRETE OR MASONRY WALLS.
- WALL SHEATHING SHALL BE 15/32" APA RATED SHEATHING, EXPOSURE 1, 40/20, W/SPACER TYPE PANEL CLIPS, 1 PER SPAN. LAY UP WITH MINIMUM 1/8" CLEAR BETWEEN PANELS TO ALLOW FOR EXPANSION. WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/8d COMMON NAILS @ 6" O.C. AT PANEL EDGES. AND 12" O.C. AT INTERMEDIATED SUPPORTS, UNLESS NOTED OTHERWISE. BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKING.
- ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING, EXPOSURE 1, 32/16, W/SPACER TYPE PANEL CLIPS. 1 PER SPAN. LAY UP WITH MINIMUM 1/8" CLEAR BETWEEN PANELS TO ALLOW FOR EXPANSION. ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/10d NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.
- GALVANIZED OR COATED CONNECTORS SHALL BE USED FOR ALL OUTDOOR WOOD INSTALLATIONS.
- ALL EXTERIOR EXPOSED WOOD SHALL BE TREATED AS PER ARCHITECTURAL SPECIFICATIONS.
- MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE GIVEN IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE, CURRENT EDITION, IF NO OTHER CRITERIA IS GIVEN.
- 12. CONNECTORS SHOWN ON THE STRUCTURAL DETAILS ARE TO BE MANUFACTURED BY SIMPSON STRONG TIE. APPROVAL BY ENGINEER OR ARCHITECT IS REQUIRED FOR ANY
- OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

13. DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT THE APPROVAL

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

E = 2000 KSI

 $Fb = 2900 \ PSI$ 

Fv = 290 PSI

14. PARALLAM PSL LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST MACMILLAN, OR EQUIVALENT, AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

> MODULUS OF ELASTICITY FLEXURAL STRESS HORIZONTAL SHEAR PERP. TO GRAIN

15. COMPLY WITH THE FOLLOWING PUBLISHED STANDARDS, LATEST EDITIONS:

B. LUMBER - AMERICAN SOFTWOOD LUMBER STANDARD (PS-20) C. PLYWOOD - CONSTRUCTION AND INDUSTRIAL PLYWOOD (PS1) D. GLUED LAMINATED BEAMS AND LAMINATED VENEER LUMBER -

## **MISCELLANEOUS:**

- 1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS ARE TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND EXISTING CONDITIONS BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
- 2. THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS PART OF HIS RESPONSIBILITY, THE CM/GC SHALL RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR WORKMEN AND ALL SHORING OF FORMS AND ELEMENTS OF CONSTRUCTION.
- 3. DO NOT SCALE THE DRAWINGS.
- 4. THE CM/GC SHALL PROVIDE AND COORDINATE THE TEMPORARY STABILIZATION AND SUPPORT OF ALL STRUCTURAL ELEMENTS DURING THE ERECTION PROCESS (E.G. TEMPORARY GUYS, BEAMS, FALSEWORK, ETC). THESE TEMPORARY SUPPORTS SHALL BE SUFFICIENT TO SECURE ALL STRUCTURAL ELEMENTS OR ANY PORTION THEREOF AGAINST LOADS THAT ARE LIKELY TO BE ENCOUNTERED DURING ERECTION. INCLUDING THOSE DUE TO WIND AND THOSE THAT RESULT FROM ERECTION OPERATIONS. THE FINAL LATERAL STABILITY OF STRUCTURE SHALL NOT BE RELIED UPON PRIOR TO THE COMPLETE ERECTION OF ALL STRUCTURAL ELEMENTS.

## SHOP DRAWING SUBMITTAL & REVIEW:

- 1. REPRODUCTION OF THE STRUCTURAL DOCUMENTS BY ANY PHOTOGRAPHIC, XEROGRAPHIC. ETC.. PROCESS OR TECHNIQUE FOR DIRECT INCORPORATION OF THE PLANS, DETAILS, NOTES, ETC., HEREIN CONTAINED INTO A SHOP DRAWING IS STRICTLY PROHIBITED.
- 2. ANY SHOP DRAWING OR SUBMITTAL, RECEIVED BY THE STRUCTURAL ENGINEER, WHICH HAS BEEN PRODUCED IN WHOLE, OR IN PART, BY THE ABOVE MENTIONED TECHNIQUES, SHALL BE REJECTED.
- 3. SHOP DRAWINGS OF THE STRUCTURAL ITEMS SHALL BE SUBMITTED BEFORE FABRICATION, FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOULD IT BECOME EVIDENT THAT THE SHOP DRAWINGS ARE BEING SUBMITTED WITH THE APPEARANCE OF NOT HAVING BEEN PROPERLY CHECKED BY THE DETAILER, OR COMPLETED, PRIOR TO SUBMISSION, THEY WILL BE RETURNED BY THE STRUCTURAL ENGINEER, WITHOUT REVIEW. AND THE TRANSMITTAL WILL INDICATE A "NON-SUBMITTAL".
- 4. ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.



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GENERAL

STRUCTURAL NOTES

DATE: <b>06/2</b> 4	4/2022	PROJECT # <b>2022-053</b>
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McCLUSKEY ENGINEERING CORPORATION 1887 HIGH GROVE LANE NAPERVILLE, ILLINOIS 60540 630-717-5335 **■** FAX: 630-717-5397

## STRUCTURAL SPECIAL INSPECTIONS:

- 1. THE OWNER WILL ENGAGE AND EMPLOY A QUALIFIED SPECIAL INSPECTION AGENCY OR AGENCIES TO CONDUCT SPECIAL INSPECTIONS OF STRUCTURAL WORK AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. AGENCIES THAT ARE CONSIDERED QUALIFIED AND ACCEPTABLE TO ACT AS SPECIAL INSPECTORS WILL BE THOSE ACCEPTABLE TO THE BUILDING OFFICIAL OF THE JURISDICTION THAT GRANTS THE BUILDING PERMIT AND THE OWNER. ONCE THE PERSON OR AGENCY TO PERFORM THE SPECIAL INSPECTIONS IS SELECTED, A SIGNED AND SEALED LETTER INDICATING THE NAME AND ADDRESS OF THE PERSON OR AGENCY HIRED TO PERFORM THE INSPECTIONS ALONG WITH DETAILS ON THE INSPECTOR(S) CREDENTIALS AND CERTIFICATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL FROM THE BUILDING OFFICIAL.
- 2. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER AND CONTRACTOR. REPORTS SHALL INDICATE THAT THE STRUCTURAL WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONTRACT DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, OWNER, ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS OF STRUCTURAL WORK AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
- 3. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY.
- 4. THE FOLLOWING TYPES OF STRUCTURAL WORK REQUIRE SPECIAL INSPECTIONS. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC TESTING AND INSPECTING REQUIREMENTS.

STEEL CONSTRUCTION (IBC SECTION 1705.2 AND AISC 360)	CONTINUOUS INSPECTION	PERIODIO INSPECTIO
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:		
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARD SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	Х
INSPECTION OF HIGH-STRENGTH BOLTING:		
SNUG-TIGHT JOINTS	-	Х
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	-	Х
FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
MANUFACTURER'S CERTIFIED TEST REPORTS.	-	Х
MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	Х
INSPECTION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK WELDING:		
SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16".	-	X
FLOOR AND ROOF DECK WELDS AND SIDELAP FASTENERS.	-	Х
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH DETAILS SUCH AS BRACING AND STIFFENING, MEMBER LOCATIONS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	Х
INSPECTION OF JOIST INSTALLATION, INCLUDING BRIDGING AND ACCESSORIES.	-	Х
VERIFICATION THAT APPROVED SHOP DRAWINGS ARE BEING USED ON SITE.	-	X
CONCRETE CONSTRUCTION (SECTION 1705.3 AND TABLE 1705.3)		
REINFORCING STEEL PLACEMENT	-	Х
BOLTS INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	Х	-
VERIFICATION OF USE OF REQUIRED MIX DESIGN	-	-
SAMPLING FRESH CONCRETE AND PERFORMING SLUMP AND AIR CONTENT TESTS AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.	Х	Х
CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Χ	-
MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	-
ERECTION OF PRECAST CONCRETE MEMBERS	-	Х
SOIL (SECTION 1705.6 AND TABLE 1705.6)		
	-	Х
(SECTION 1705.6 AND TABLE 1705.6)  VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE	-	X
(SECTION 1705.6 AND TABLE 1705.6)  VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.  VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE	-	
(SECTION 1705.6 AND TABLE 1705.6)  VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.  VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.  PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL	- - - X	Х

INSPECTION TASK		FREQUENCY (a)		REFERENCE FOR CRITERIA	
Wei Fellow Weik	LEVEL 2	LEVEL 3	TMS402	TMS602	
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
PROPORTIONS OF SITE-PREPARED MORTAR	Р	Р		ART. 2.1, 2.6 A, C	
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	Р	Р		ART 3.3 B	
GRADE, TYPE, SIZE, AND LOCATION OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	Р	Р		ART. 2.4 B, 2.4 H	
PRESTRESSING TECHNIQUE	Р	Р		ART 3.6 B	
PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	C(p)\b(c)	С		ART. 2.1 C	
SAMPLE PANEL CONSTRUCTION	Р	С			
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
GROUT SPACE	Р	С		ART. 3.2 D, 3.2 F	
PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	Р	Р	SEC. 10.8, 10.9	ART. 2.4, 3.6	
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	Р	С	SEC. 6.1, 6.3.1, 6.3.6, 6.3.7	ART. 3.2 E, 3.4, 3.6 A	
PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	Р	Р		ART. 2.6 B, 2.4 G.1.b	
/ERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	Р	Р		ART. 1.5	
PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	Р	Р		ART. 3.3B	
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	Р	Р		ART. 3.3 F	
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	Р	С	SEC. 1.2.1(e), 6.1.4.3, 6.2.1		
WELDING OF REINFORCEMENT	С	С	SEC. 6.1.6.1.2		
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (TEMP. BELOW 40°F) OR HOT (TEMP. ABOVE 90°F) WEATHER	Р	Р		ART. 1.8 C, 1.8 D	
APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	С	С		ART. 3.6 B	
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	С	С		ART. 3.5, 3.6 C	
PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	C(p)\\b(c)	С		ART. 3.3 B.9, 3.3 F.1.b	
DBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	Р	С		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4	
TE: FREQUENCY REFERS TO THE FREQUENCY C  DURING THE LISTED TASK OR PERIODICALLY DURING TABLE. P = PERIODIC, C = CONTIN	THE LISTE	•			



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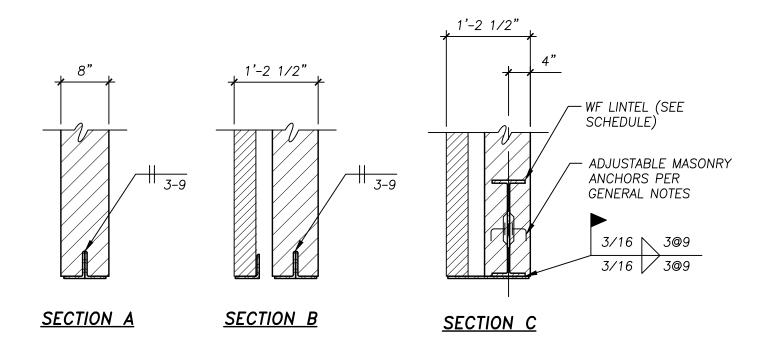
GENERAL STRUCTURAL NOTES

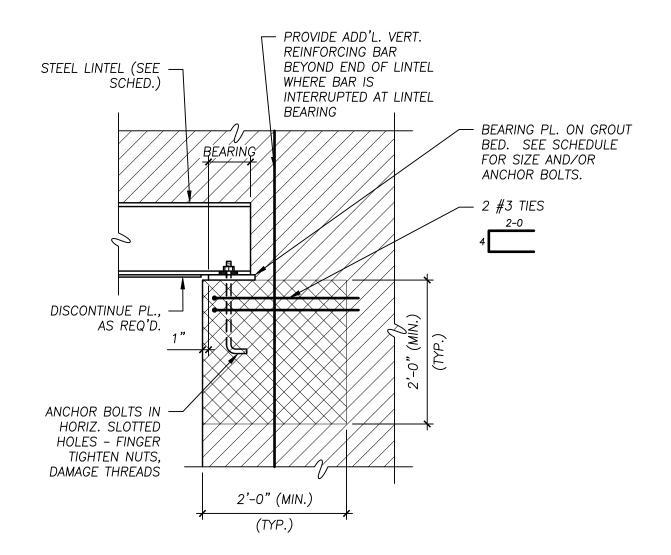
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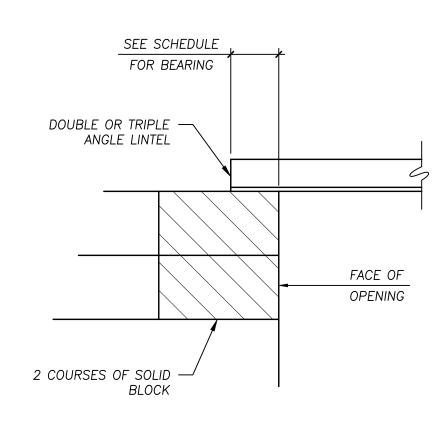


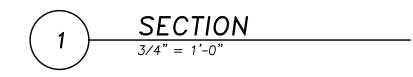
LINTEL SCHEDULE				
MARK	DESCRIPTION	BEARING (E.E.)	DETAIL/REMARKS	
(L1)	(2) L3 1/2 x 3 1/2 x 3/8	6"	DETAIL A	
(L2)	(3) L3 1/2 x 3 1/2 x 3/8	6"	DETAIL B	
(L3)	W8 x 21 + CONT. 3/8" PL.	8"	DETAIL C	

- 1. PROVIDE LINTEL PLATE WIDTH OF NOMINAL WALL WIDTH MINUS 1/2".
- 2. LINTEL SIZES SHOWN ARE DESIGNED TO SUPPORT MASONRY WALL ONLY ASSUMING ARCHING ACTION (AT 45 DEGREES) WITHOUT SUPERIMPOSED FLOOR OR ROOF LOADS.
- 3. LINTELS SHALL BE SHORED DURING CONSTRUCTION UNTIL THE MASONRY HAS ATTAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT (24 HOURS MINIMUM).
- 4. SEE ARCHITECTURAL DRAWINGS FOR ALL MASONRY OPENING SIZES AND LOCATIONS.





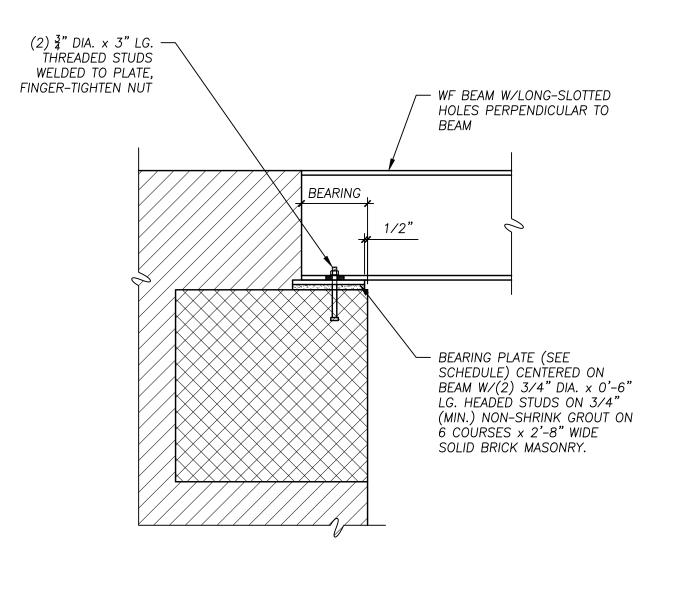








BEARING PLATE SCHEDULE			
MARK	DESCRIPTION	REMARKS	
BP1	PL. 1/2" x 7 1/2" x 1'-0" LG.	DETAIL 4	
BP2	PL. 1/2" x 7 1/2" x 0'-8" LG.	DETAIL 4	
BP3			









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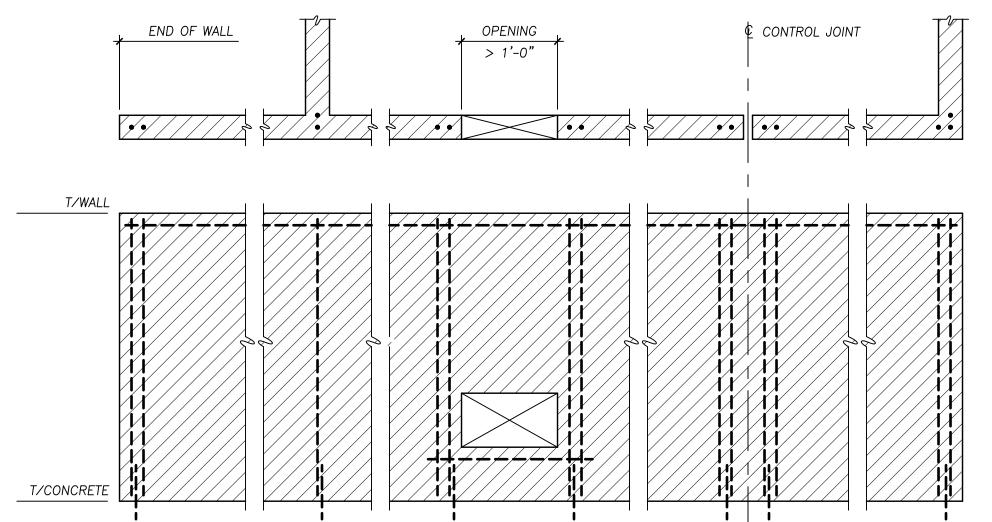
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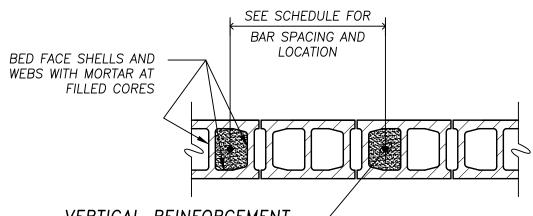
## TYPICAL REINFORCED MASONRY NOTES

TYPICAL VERTICAL REINFORCING SHALL BE 1-#5 @ 32" O.C. OR AS NOTED IN THE REINFORCED MASONRY WALL SCHEDULE. ADDITIONAL REINFORCING SHALL BE AS FOLLOWS:

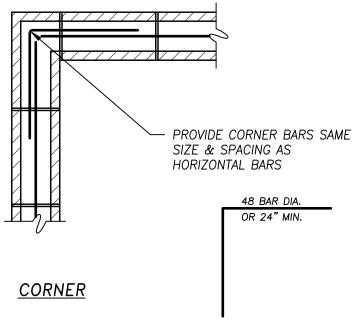
- 2-#5 VERTICAL REINFORCING BAR SHALL BE PROVIDED, CONTINUOUSLY FROM SUPPORT TO SUPPORT (FINISHED FLOOR TO ROOF) AT:
  - A. WITHIN 8" OF EACH END OF WALL; B. EACH WALL INTERSECTION;
  - C. WITHIN 16" OF EACH SIDE OF MASONRY OPENING > 1'-0" IN WIDTH; D. WITHIN 8" OF EACH SIDE OF MASONRY
  - MOVEMENT JOINTS;
- E. EACH CORNER OF THE BUILDING. 2. 2 - #5 HORIZONTAL REINFORCING BARS

SHALL BE PROVIDED AT:

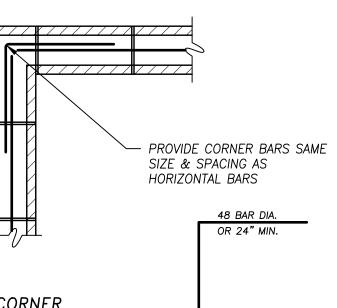
A. TOP OF WALL, CONTINUOUS. AND BOTTOM OF MASONRY OPENINGS



#3 - 2'-0" #4 - 2'-6" #5 - 3'-2" #6 - 4'-0"



TYPICAL BOND BEAM DETAILS



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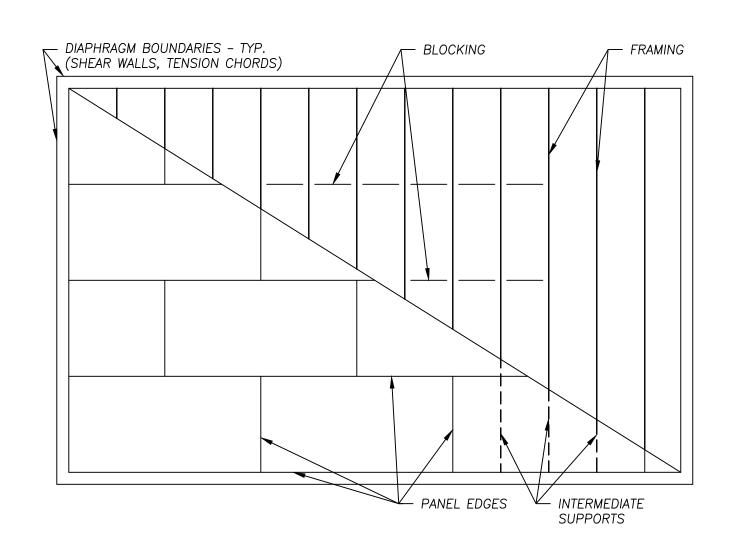
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TYPICAL REINFORCED MASONRY WALL DETAILS



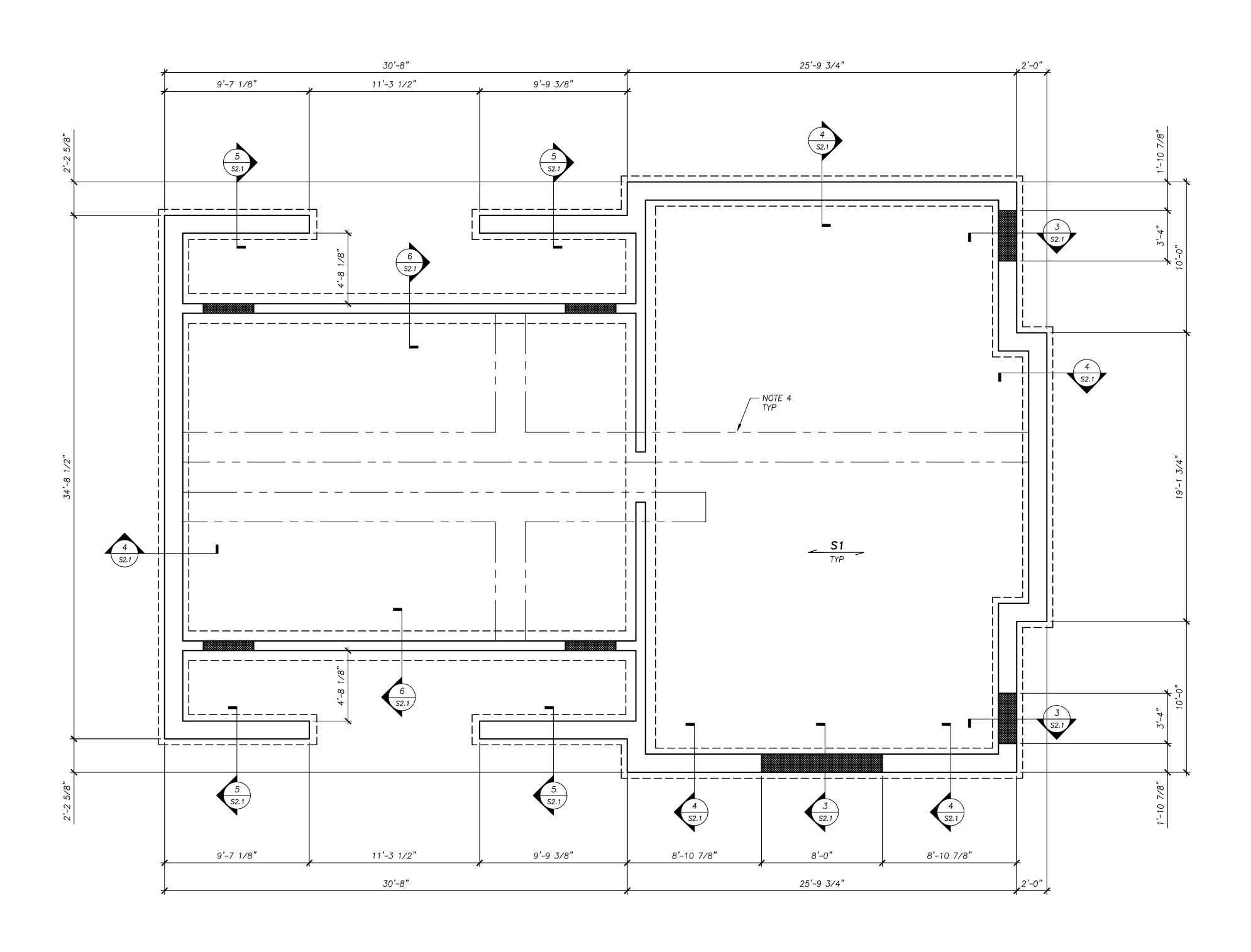
ALL NAILS SHALL BE COMMON NAILS. STAPLES ARE NOT PERMITTED. NAILS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM PANEL EDGES. REFER TO SCHEDULE AND/OR FRAMING PLANS FOR NAIL SIZE & SPACING.

FACE GRAIN OF PLYWOOD PANELS TO BE PERPENDICULAR TO SUPPORTS.

TYPICAL DIAPHRAGM FASTENING

VERTICAL REINFORCEMENT 1. SEE SCHEDULE FOR SIZE AND SPACING OF VERTICAL REINFORCEMENT. 2. BARS SHALL BE CONTINUOUS FOR VERTICAL EXTEND SHOWN. 3. LAP BARS AS FOLLOWS (MINIMUM):

4. PROVIDE ONE DOWEL INTO FOUNDATION WALL FOR EACH VERTICAL WALL BAR. LAP AS PRESCRIBED ABOVE WITH WALL VERTICAL REINFORCEMENT. EXTEND FULL DEPTH INTO FOUNDATION WALL.



# FOUNDATION PLAN

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

- 1. FINISHED FLOOR ELEVATION = +0'-0", UNLESS NOTED THUS OTHERWISE ON PLAN. (USGS DATUM = SEE CIVIL DRAWINGS)
- 2. TOP OF FOUNDATION WALL ELEVATION = +0'-0", EXCEPT AT DOOR OPENINGS = -0'-8", AND WHERE NOTED OTHERWISE ON PLAN AND/OR DETAILS.
- 3. TOP OF EXTERIOR SPREAD FOOTING ELEVATION = 3'-0" BELOW FINISHED FLOOR ELEVATION, UNLESS NOTED THUS ( ) ON PLAN.
- 4. PROVIDE THICKENED SLAB @ ALL NON-BEARING MASONRY PARTITIONS PER DETAIL ?/S?.?. SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATIONS.
- 5. VERIFY ALL WORK POINTS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 6. SEE MEP DRAWINGS FOR WALL AND SLAB PENETRATIONS.
- 7. PROVIDE SLAB CONTROL/CONSTRUCTION JOINTS @ COLUMN CENTERLINES AND AT 15'-0" O.C. MAX. SEE DET. 1/S2.1.
- 8. SEE THE FOLLOWING SHEETS FOR ADDITIONAL INFORMATION: SHEET SO.O GENERAL STRUCTURAL NOTES



# LEGEND - FOUNDATION

4" CONCRETE SLAB W/6 $\times$ 6 - W2.1  $\times$  W2.1 WWF ON 6" (MIN.) COMP. GRANULAR FILL ON 15 MIL (MIN.) VAPOR BARRIER. (SEE REFERENCED SOILS REPORT FOR ADD'L. INFORMATION)



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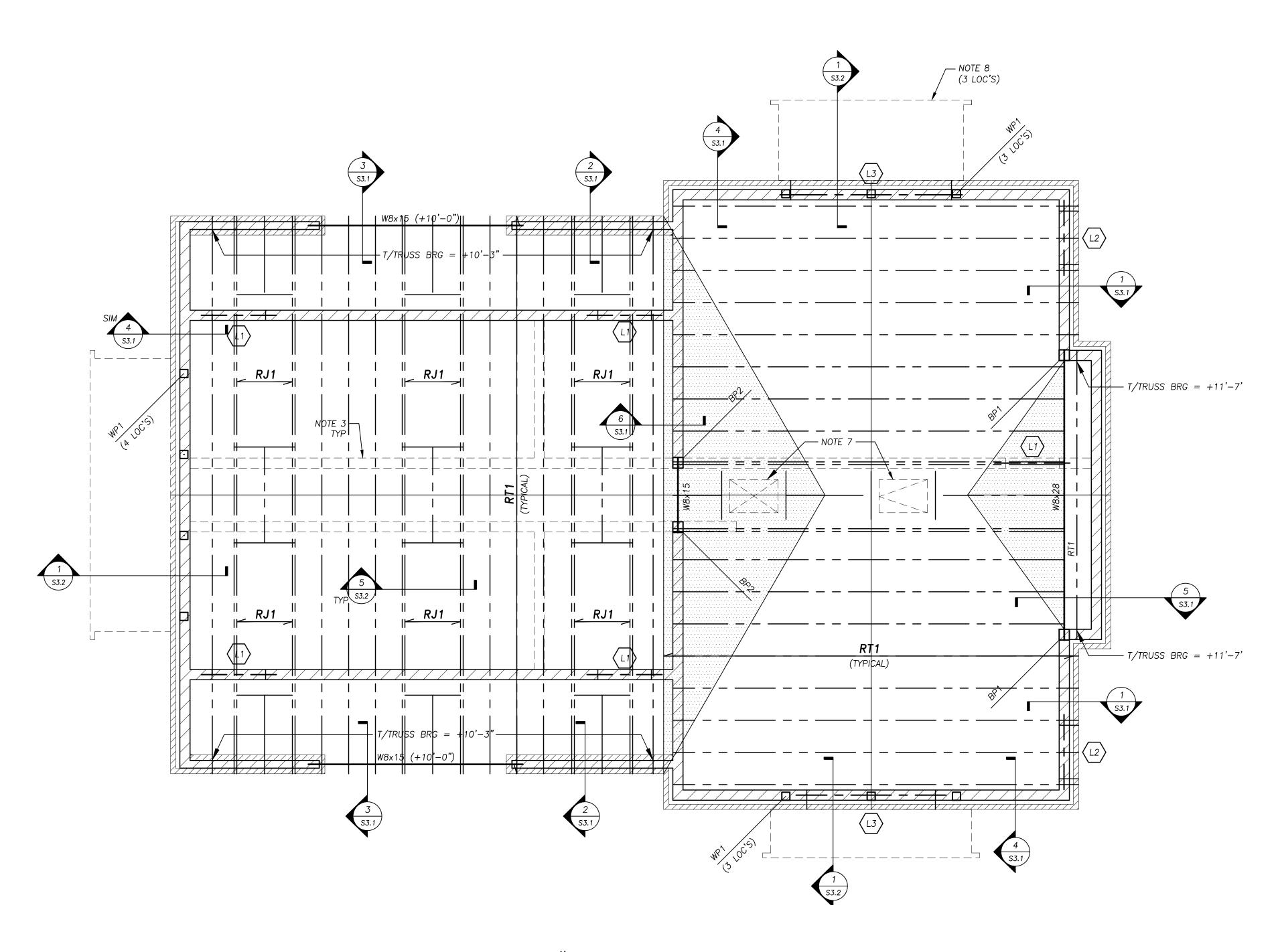
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FOUNDATION PLAN

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# ROOF FRAMING PLAN

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

# <u>NOTES</u>

- 1. BP1 DENOTES BEARING PLATE. SEE PLATE SCHEDULE ON SHEET S0.1.
- BRACE TOP OF FULL HEIGHT NON-BEARING MASONRY PARTITIONS TO ROOF STRUCTURE PER DETAIL 4/S3.2. SEE ARCH. DRAWINGS FOR LOCATIONS.
- 3. LINTELS FOR OPENINGS THROUGH INTERIOR NON-BEARING MASONRY PARTITIONS HAVE TYPICALLY NOT BEEN SHOWN. COORDINATE SIZE AND LOCATION OF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS. SEE SCHEDULE ON SHEET SO.1 FOR LINTELS IN NON-BEARING MASONRY PARTITIONS.
- 4. TYPICAL MASONRY WALL REINFORCING SHALL BE #5 VERTICAL @ 48" O.C. SEE DETAIL 5/SO.1 FOR ADDITIONAL INFORMATION.
- 5. WOOD TRUSS DESIGNER/CONTRACTOR NOTE: SEE ARCHITECTURAL AND MEP DRAWINGS FOR CEILING REQUIREMENTS AND EQUIPMENT TO BE HUNG FROM TRUSSES.
- 6. TOP OF WOOD TRUSS BEARING ELEVATION = +10'-11", UNLESS NOTED OTHERWISE ON PLAN AND/OR DETAILS.
- 7. <u>WOOD TRUSS CONTRACTOR NOTE:</u> PROVIDE SUPPLEMENTAL HEADER/FRAMING FOR CEILING HATCH
- AND MEP OPENING. SEE ARCH AND MEP FOR SIZE, LOCATION AND ADD'L. INFO.
- 8. INDICATES HEAVY TIMBER CANOPY. SEE ARCH FOR ADD'L INFO. SEE DETAIL 1/S3.2 FOR ANCHORAGE TO SUPERSTRUCTURE.
- 9. T/STEEL ELEVATION = 10'-8", UNLESS NOTED OTHERWISE ON PLAN AND/OR DETAILS.
- 10. WP1 DENOTES 5 1/4"x 5 1/4" PSL POST TO ALIGN WITH CANOPY TENSION ROD. SEE ARCH FOR LOCATION. REFER TO DETAIL 1/S3.2 FOR ADD'L INFO.
- 11. SEE THE FOLLOWING SHEETS FOR ADDITIONAL INFORMATION:

SHEET SO.O GENERAL STRUCTURAL NOTES

# LEGEND - ROOF FRAMING

DENOTES LINTEL. SEE SCHEDULE ON SHEET SO.1.

INDICATES DIRECTION OF SPAN OF PRE-ENGINEERED WOOD ROOF TRUSSES SPACED AT 24" O.C. W/ 5/8" SHEATHING. SEE TYPICAL ROOF SHEATHING LAYOUT (3/SO.2) FOR ROOF SHEATHING REQUIREMENTS.

DENOTES AREAS OF OVERBUILD FRAMING BY WOOD CONTRACTOR. WOOD TRUSSES SUPPORTING AREAS WHICH REQUIRE OVERBUILD SHALL BE DESIGNED TO SUPPORT AN ADDITIONAL DEAD LOAD EQUAL TO 10 PSF.

PJ1 INDICATES DIRECTION OF SPAN OF 2 x 6 WOOD ROOF JOISTS SPACED @ 16" O.C. (MAX.) W/ ROOF SHEATHING. SEE TYPICAL ROOF SHEATHING LAYOUT (3/SO.2) FOR ROOF SHEATHING REQUIREMENTS.



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ROOF FRAMING PLAN

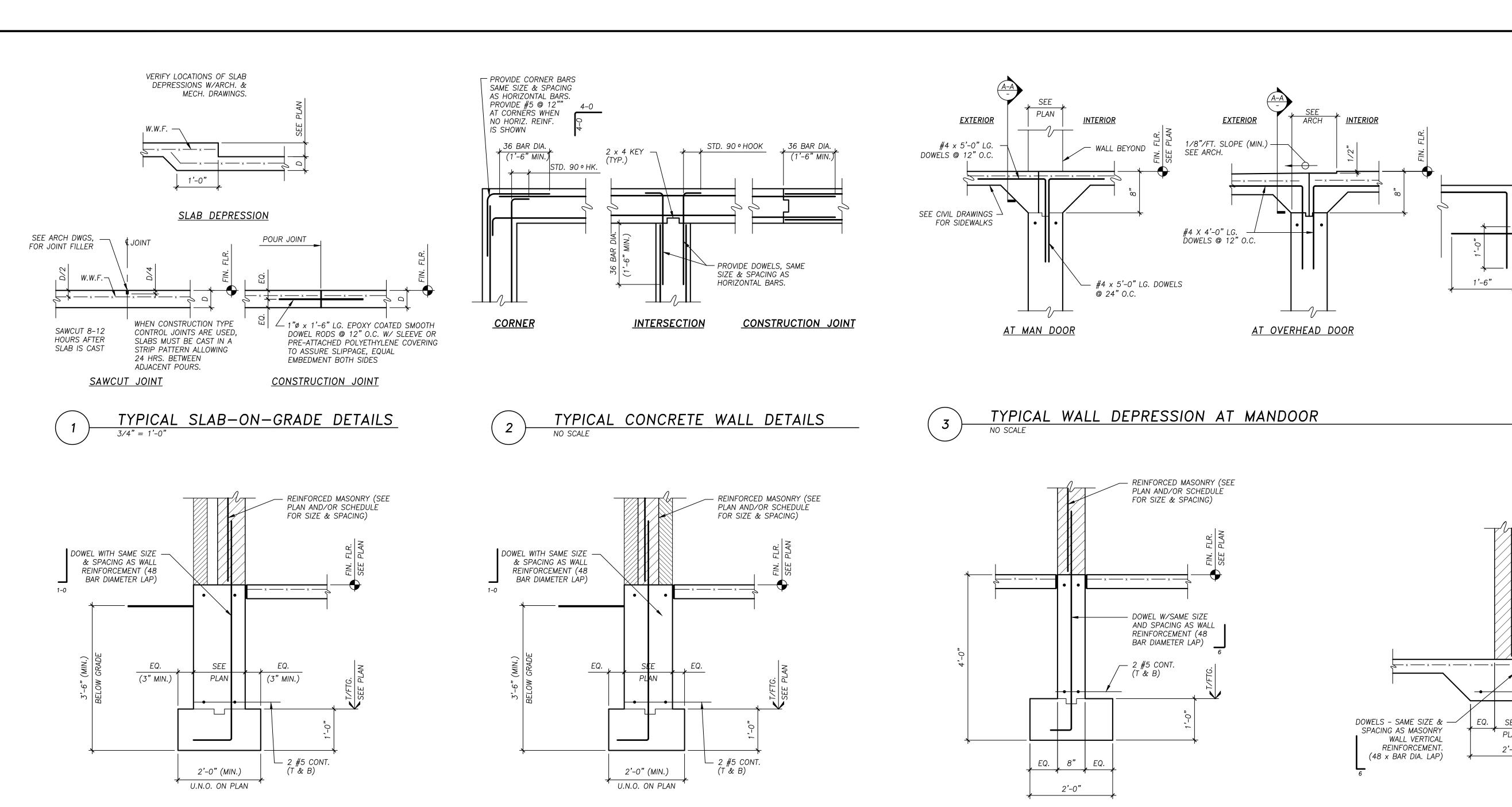
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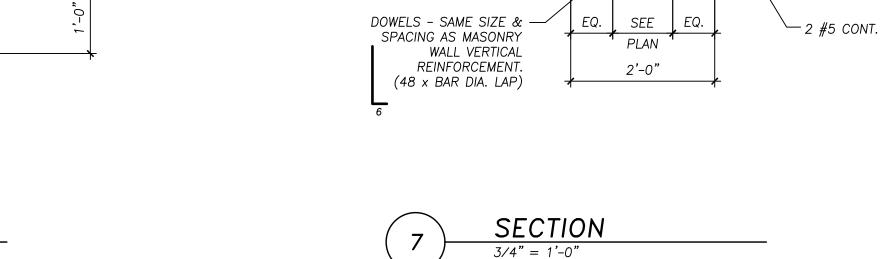


SECTION

3/4" = 1'-0"

SECTION

NO SCALE



**SECTION** 3/4" = 1'-0"

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REINF. TO MATCH TYP.

REINFORCED MASONRY (SEE

PLAN AND/OR SCHEDULE FOR SIZE & SPACING)

WALL TOP BARS

ELEVATION A-A

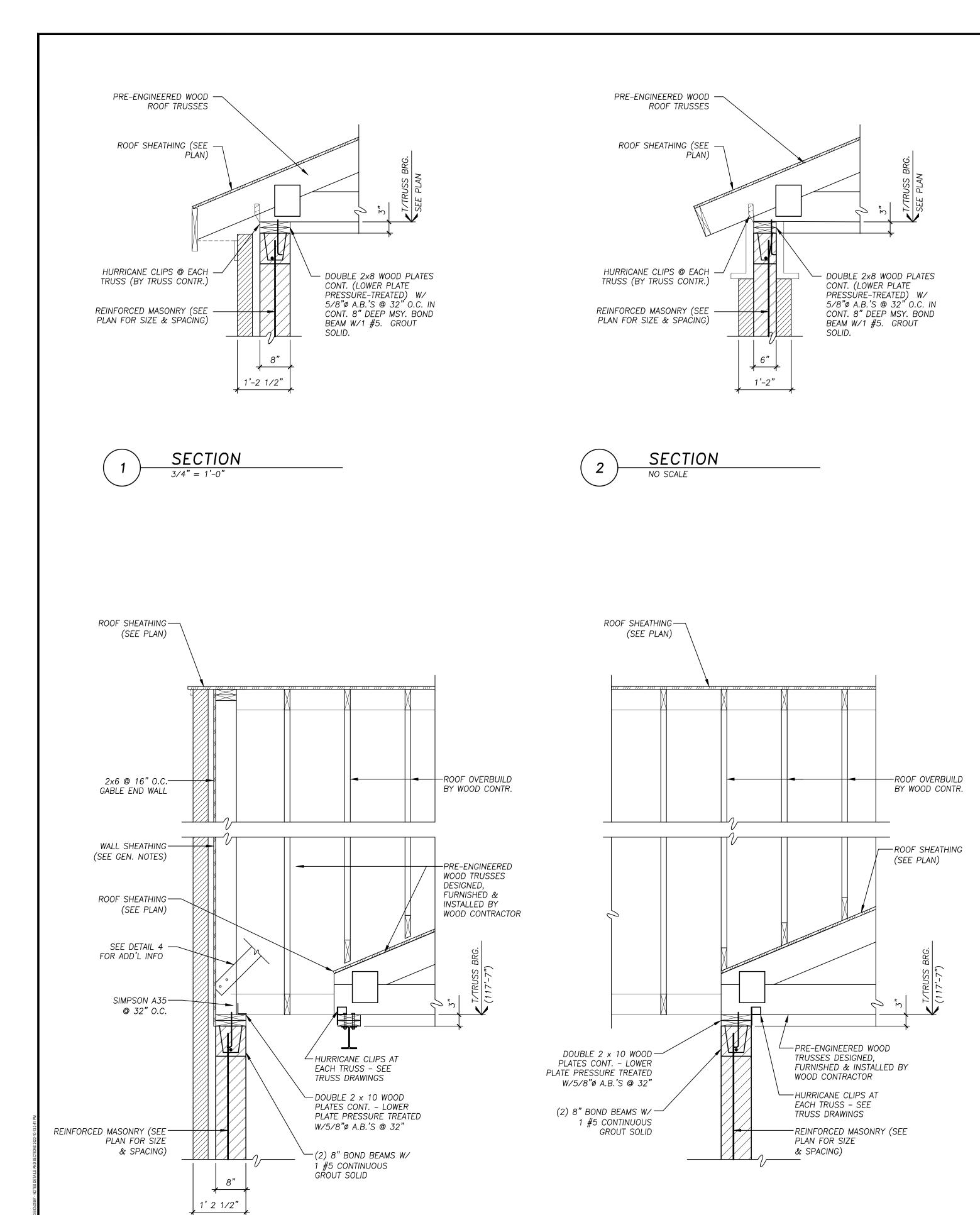
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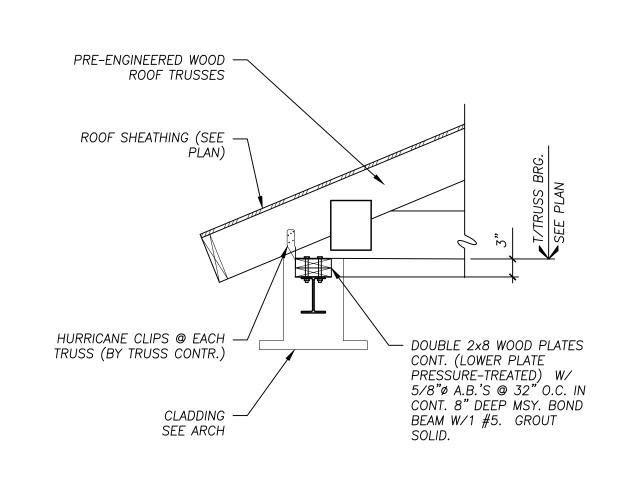
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CONCRETE SECTIONS AND DETAILS

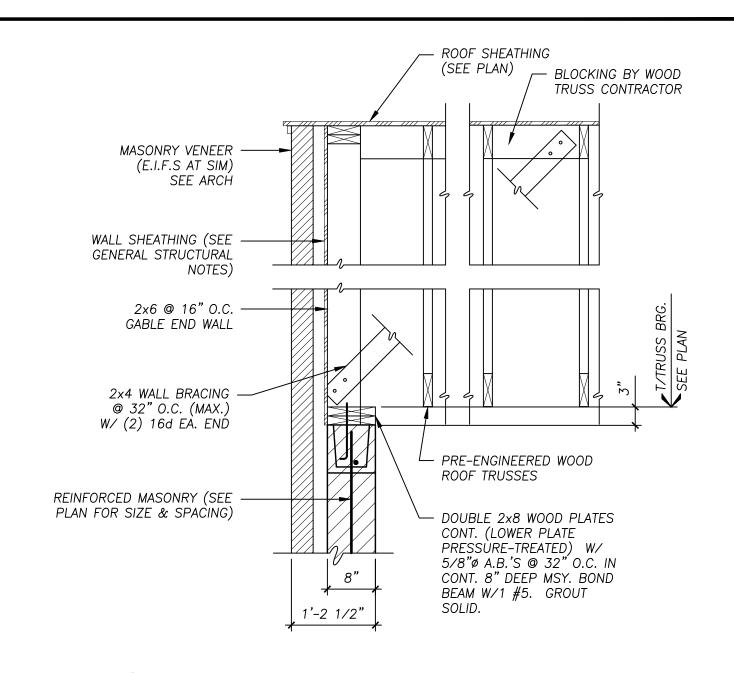
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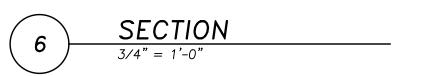
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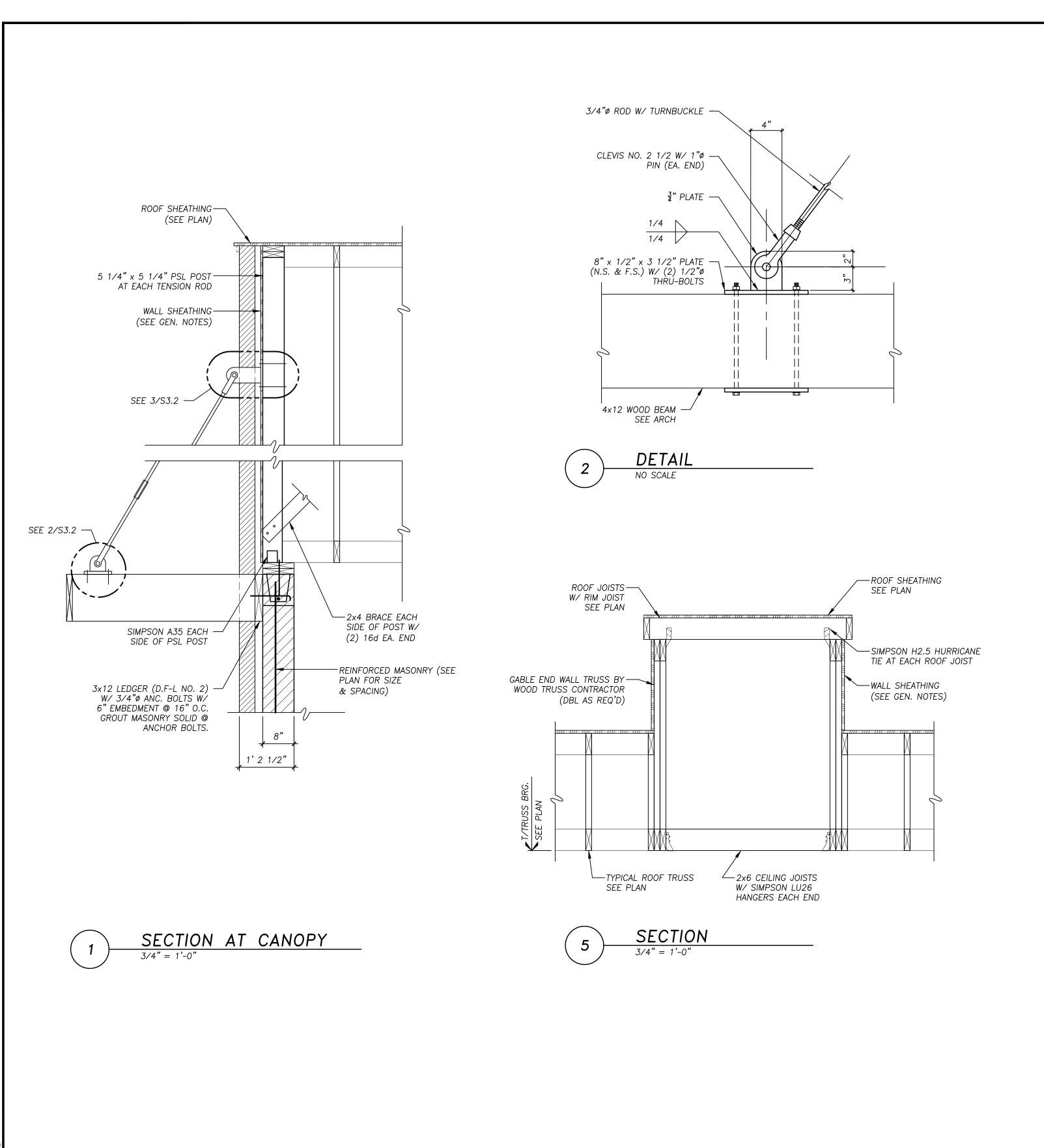
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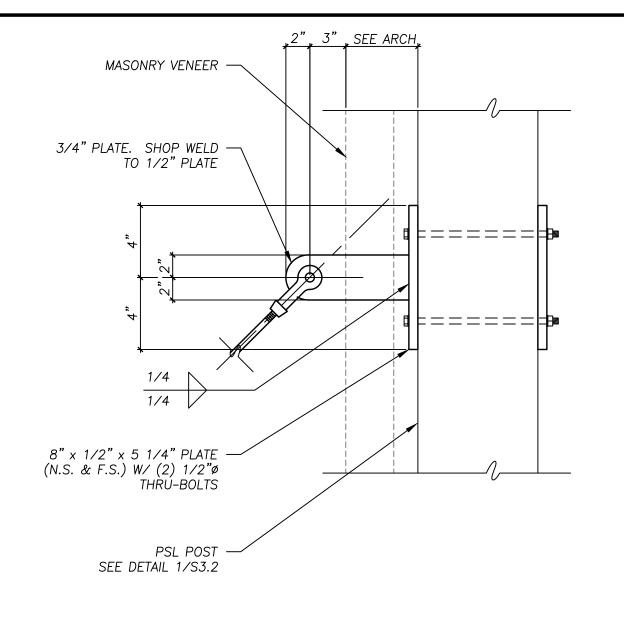
**ROOF FRAMING SECTIONS & DETAILS** 

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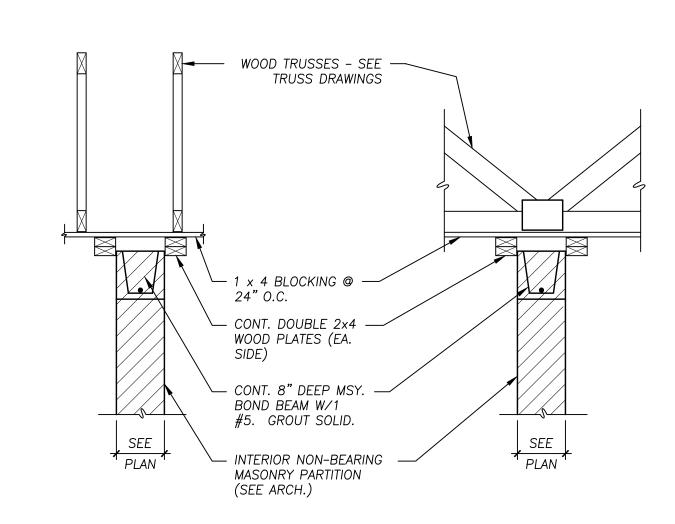


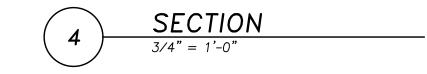
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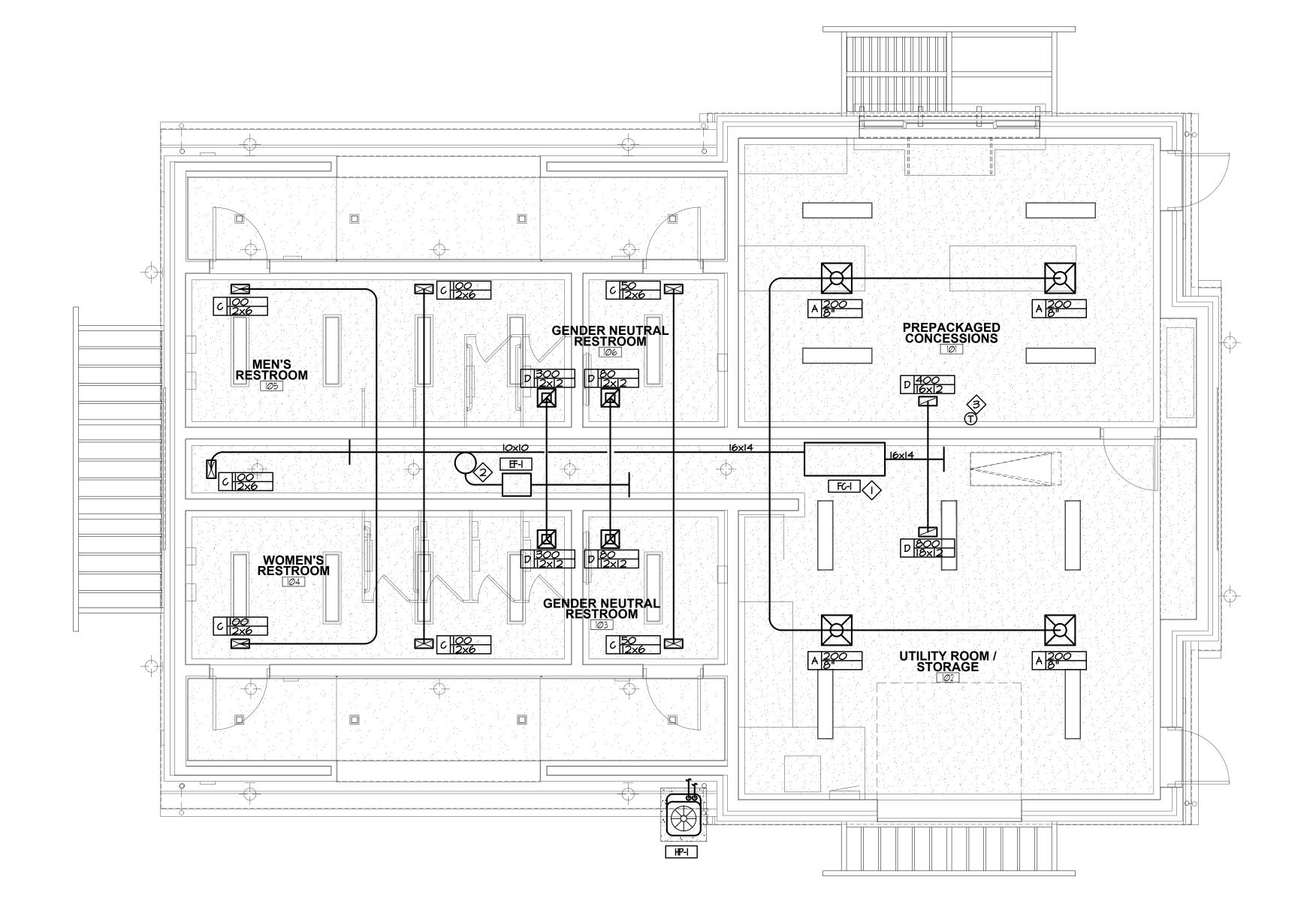
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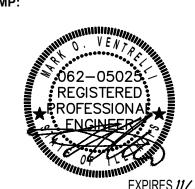
- FAN COIL UNIT MOUNTED IN ATTIC SPACE. GC SHALL COORDINATE MOUNTING WITH TRUSS MANUFACTURER. PROVIDE 3-DIMENSIONAL SIGNAGE BELOW CEILING FOR CONCEALED FAN COIL UNIT. SIGNAGE SHALL COMPLY WITH ANSI AIIT.I SECTIONS 703.2.1-703.2.8 AND 703.10.
- 2. ROUTE 14" EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH WEATHER PROOF EXHAUST CAP.
- 3. LOCATION OF THERMOSTAT WITH TAMPERPROOF GUARD. THERMOSTAT SHALL BE CARRIER #TP-NHPOI-A OR EQUIVALENT. GUARD SHALL BE HONEYWELL #CG510A1019 OR EQUIVALENT.



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MECHANICAL PLAN



			FAN	COIL DX	COO	LING	UNIT S	CHEDU	LE		
TAG	MANUFACTURER AND	CFM	ESP	ELECT	RICAL DAT	ΓA	REFRIGER DA	TA	AREA SERVING	UNIT WEIGHT	REMARKS
ITEM MODEL NUMBER	CFM	ESP	VOLT-PH-HZ	₽	RPM	SENSIBLE (BTUH)	TOTAL (BTUH)	AREA SERVING	(LBS)	REMARKS	
FC-I	CARRIER FV4COO5	1400	0.5	208-1-60	1/2	-	31000	42000	SEE PLAN	381	ALL

## REMARKS:

- MOUNT UNIT IN ATTIC SPACE WITH VIBRATION ISOLATION.
- OUTSIDE AIR INTAKE SHALL BE 15'-O" MINIMUM AWAY FROM ANY EXHAUST DISCHARGE.
- VERIFY EXACT VOLTAGE IN THE FIELD PRIOR TO ORDERING.
- MAINTAIN MANUFACTURE'S RECOMMENDED SERVICE CLEARANCES.
- PROVIDE FLEXIBLE CANVAS CONNECTIONS AT ALL DUCT CONNECTIONS TO AIR HANDLING UNIT. FLEX CONNECTORS SHALL BE UL-181 LISTED. PROVIDE STAINLESS STEEL DRAIN PANS, PROVIDE DRAIN PIPE WITH P-TRAP TO MOP SINK IN UTILITY ROOM.
- PROVIDE FIELD DISCONNECT SWITCH, FIELD WIRING BY ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RETURN DUCT MOUNTED SMOKE DETECTOR. WIRED AS REQUIRED BY LOCAL CODES.
- PROVIDED PREPAINTED DOUBLE WALL CONSTRUCTION WITH R-13 INSULATION FOR ENTIRE UNIT.

	OUTDOOR CONDENSING UNIT SCHEDULE													
ITEM	MANUFACTURER AND	SEER	NOMINAL	REFRIG.	REFRIG.	COOLING CAPACITY	UNIT	1	ELECTRI	CAL DA	ГА		UNIT	REMARKS
TAG	MODEL NUMBER	SEER	TONS	REFRIO.	(LBS)	(BTUH)	SERVING	YOLT-PH-HZ	COMP. RLA	COND. FLA	MCA	MOCP	(LBS)	REMARKS
HP-I	CARRIER 25HCE442	14.0	3.5	R-410A	5.84	42000	FC-I	208-1-60	17.9	1.20	24.0	40	210	1-7

## <u>REMARKS:</u>

- VERIFY ELECTRICAL REQUIREMENT WITH ELECTRICAL CONRACTOR PRIOR TO ORDERING.
- PROVIDE TIMED LOCK-OUT, SERVICE VALVES, AND DRYER.
- PROVIDE UNIT WITH CASED N-COIL TYPE EVAPORATOR COIL WITH REFRIGERANT SPECIFIC TXV.
- MOUNT UNIT LEVEL ON GRADE ON 4" DEEP CONCRETE PAD. COORDINATE WITH GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE WEATHER PROOF DISCONNECT SWITCH.
- PROVIDE DX LIQUID AND SUCTION REFRIGERANT PIPING SIZED FOR ACTUAL FIELD CONDITIONS AND MANUFACTURE'S RECOMMENDATIONS.
- PROVIDE REFRIGERANT SAFETY RELIEF VALVE IN ACCORDANCE WITH LOCAL CODES.
- PROVIDE LOW AMBIENT CONTROL PACKAGE AND ACCESSORIES.

GRILLE REGISTER DIFFUSER SCHEDULE						
ITEM TAG	MANUFACTURER AND MODEL NUMBER	PURPOSE	FACE SIZE	ACCESSORIES	DESCRIPTION	REMARKS
Α	TITUS OMNI	SUPPLY	20×20	OPPOSED BLADE DAMPER, BORDER TYPE I, INSULATED BLANKET	SQUARE PLAQUE FACE DIFFUSER	I, 2
C	TITUS 300RS	SUPPLY	SEE PLANS	OPPOSED BLADE DAMPER, BORDER TYPE I	DOUBLE DEFLECTION ADJUSTABLE BLADE STEEL GRILLE	I
D	TITUS 350RL	RETURN/ EXHAUST	SEE PLANS	BORDER TYPE I	35° DEFLECTION FIXED BLADE STEEL GRILLE	ı

## **REMARKS:**

- COORDINATE COLOR AND FINISH WITH ARCHITECTURAL PLANS.
- PROVIDE DIRECTIONAL BLOW CLIPS, IF SHOWN ON FLOOR PLANS.

				E	KHAUS	ST FAI	N SCHEDULE				
ITEM	MANUFACTURER AND	CFM	ESP	ELECT	RICAL DA	ТА	CONTROLLED VIA	DAMPER TYPE	AREA SERVING	UNIT WEIGHT	REMARKS
TAG	MODEL NUMBER	)		VOLT-PH-HZ	HP	RPM	CONTROLLED VIV		/ INCL/ ( SEIN FINE	(LBS)	
EF-I	GREENHECK SQ-95-VG	760	0.30	120-1-60	1/6	1725	TIMECLOCK	BACKDRAFT	RESTROOMS	50	ALL

# <u>REMARKS</u>

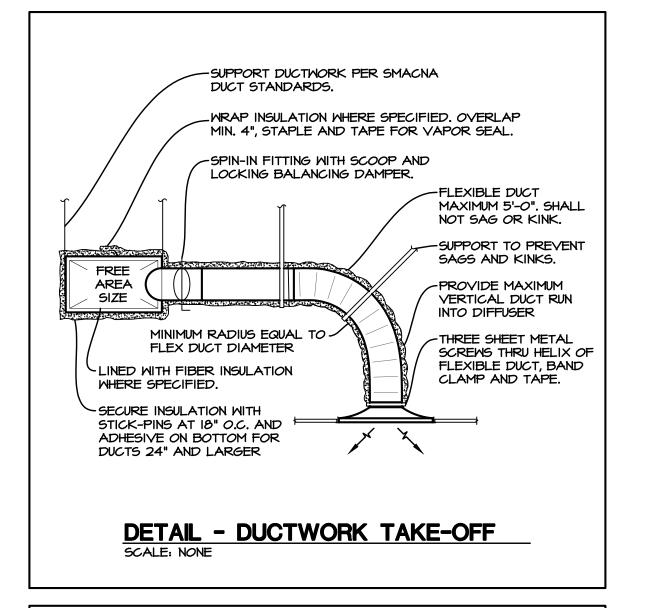
- VERIFY EXACT VOLTAGE PRIOR TO ORDERING EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AND LINE WIRING.
- PROVIDE HOODED PITCHED ROOF CAP.

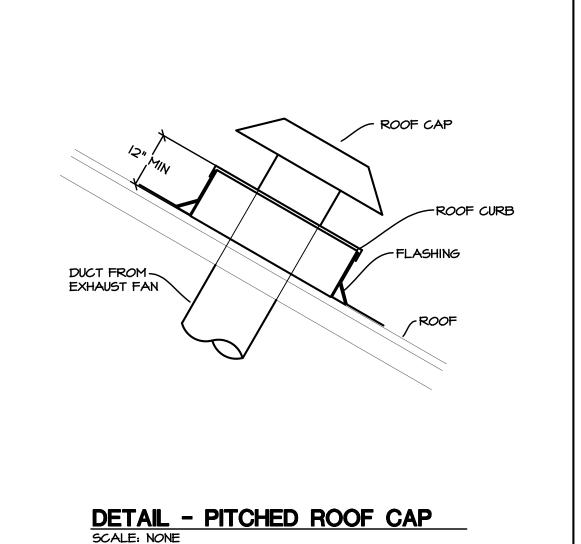
# MECHANICAL GENERAL NOTES

- ALL EQUIPMENT AND COMPONENTS FOR HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS SHALL COMPLY AND BE INSTALLED FOR THE EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH LOCAL CODES.
- 2. ALL MECHANICAL EQUIPMENT SHALL BEAR THE LABEL OF AN APPROVED AGENCY, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE INFORMATION ON THE LABEL AND PER THE MANUFACTURER'S RECOMMENDATIONS. THE MECHANICAL CONTRACTOR SHALL MAINTAIN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL MECHANICAL EQUIPMENT AT THE JOB SITE. THE MECHANICAL EQUIPMENT SPECIFIED SHALL MEET ALL APPLICABLE STANDARDS INCLUDING THE INTERNATIONAL MECHANICAL CODE, SMACNA, ASHRAE, AND THE INTERNATIONAL FUEL GAS CODE.

FORCED WARM AIR FURNACES - ANSI Z21.47 OR UL 795

- THE CONSTRUCTION OF ALL DUCTWORK MUST BE IN ACCORDANCE WITH THE LATEST SMACNA DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. COVERINGS AND LININGS, INCLUDING ADHESIVES, SHALL HAVE A FLAME-SPREAD INDEX NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84. DUCT COVERINGS AND LININGS SHALL NOT FLAME, GLOW, SMOLDER OR SMOKE WHEN TESTED IN ACCORDANCE WITH ASTM C 411 AT THE TEMPERATURE TO WHICH THEY ARE EXPOSED IN SERVICE. THE TEST TEMPERATURE SHALL NOT FALL BELOW 250 DEG. F. FLEXIBLE DUCTS AND CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND BE LABELED. FLEXIBLE CONNECTORS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 10 FEET. DUCTS MUST BE SEALED IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. RIGID DUCTS MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING IO FEET. ALL AIR FILTERS SHALL BE LISTED AND LABELED.
- AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000 CFM SHALL BE PROVED WITH RETURN DUCT MOUNTED SMOKE DETECTOR. ALL RETURN DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS AND OUTDOOR AIR CONNECTIONS. SMOKE DETECTORS SHALL BE LABELED FOR INSTALLATION IN AIR DISTRIBUTION SYSTEMS AND INSTALLED IN ACCORDANCE WITH NFPA 72. UPON ACTIVATION, THE SMOKE DETECTOR MUST SHUT DOWN THE AIR DISTRIBUTION SYSTEM.
- 5. THE MECHANICAL CONTRACTOR SHALL HIRE AN INDEPENDENT AND CERTIFIED TEST AND BALANCE CONTRACTOR, AND SHALL PROVIDE A TEST AND BALANCE REPORT TO BE SENT TO THE BUILDING DEPARTMENT NO LESS THAN THREE DAYS PRIOR TO FINAL INSPECTION.





# MECHANICAL SPECIFICATIONS

- THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL EXISTING CONDITIONS IN FIELD AND INCLUDE IN THEIR BID ALL REQUIRED CHANGES TO PROVIDE A COMPLETE OPERATING
- THIS CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL INDICATED ON DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE AND SATISFACTORY OPERATING INSTALLATION.
- 3. ALL MATERIALS SHALL BE NEW AND OF STANDARD QUALITY UNLESS OTHERWISE NOTED; NO REJECTS. ALL MATERIALS FOR WHICH AN UNDERWRITER'S LABORATORY STANDARD EXISTS SHALL BEAR A U.L. LABEL. PROTECT ALL EQUIPMENT AND WORK FROM DAMAGE DUE TO ANY CAUSE.
- ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE NATIONAL, STATE AND LOCAL CODES AND REGULATIONS GOVERNING THE INSTALLATION OF THE WORK INVOLVED. ALL PERMITS FOR THE INSTALLATION OF THE WORK AND ALL INSPECTIONS OF SAME SHALL BE ARRANGED FOR BY THIS CONTRACTOR. ALL FEES AND ASSESSMENTS IN CONNECTION THEREWITH SHALL BE PAID BY THIS CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THEIR BID.
- THE GENERAL CONDITIONS AND SPECIAL CONDITIONS ISSUED BY THE OWNER AND/OR ARCHITECT SHALL GOVERN WHERE APPLICABLE. GENERAL CONDITIONS AND SPECIAL CONDITION REQUIREMENTS RELATED BUT NOT LIMITED TO THE FOLLOWING SHALL APPLY:
- A. RUBBISH REMOVAL.
- B. COMPLIANCE WITH THE OWNER'S REQUIREMENTS. OBTAINING AND PAYING FOR REQUIRED LICENSES AND PERMITS.
- ). REPLACEMENT OF DAMAGED SYSTEM EQUIPMENT, AND/OR BUILDING DUE TO NEW INSTALLATIONS. COMPLIANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
- F. WORKMAN'S COMPENSATION INSURANCE, PUBLIC LIABILITY INSURANCE.
- 6. THE ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIONAL AND ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT.
- NEW DUCTWORK AND PIPING SHALL RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION, AS HIGH AS POSSIBLE.
- 8. THIS CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK INCLUDING MOVING AND RIGGING OF MATERIAL AND EQUIPMENT, HANGERS, SUPPORTS, STRUCTURAL FRAMING CHANGES, FITTINGS AND SLEEVES.
- ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM ACCEPTANCE. PROVIDE TYPEWRITTEN OPERATING INSTRUCTIONS, AND EQUIPMENT WARRANTIES.
- 10. ALL SHEET METAL DUCTS SHALL BE ERECTED IN FIRST CLASS AND WORKMANLIKE MANNER TRUE TO THE DIMENSIONS INDICATED ON THE DRAWINGS, UNLESS OTHERWISE APPROVED, STRAIGHT AND SMOOTH ON THE INSIDE WITH NEATLY FINISHED AIRTIGHT JOINTS. ALL SLOP JOINTS SHALL BE MADE IN THE DIRECTION OF FLOW, AND UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL ELBOWS SHALL HAVE A CENTERLINE RADIUS EQUAL TO 1.5 TIMES THE WIDTH OF THE DUCT. THE SHEET METAL USED SHALL BE GALVANIZED IRON, EXCEPT AS HEREINAFTER SPECIFIED. THE THICKNESS OF THE SHEET METAL AND SIZE AND SPACING OF THE STIFFENERS USED SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE BOOK. CONSTRUCT DUCTWORK IN ACCORDANCE WITH THE REQUIREMENTS OF SMACNA AND CURRENT LOCAL CODES. ASHRAE GUIDE AND DATA BOOK "SCHEDULE OF RECOMMENDED CONSTRUCTION FOR LOW PRESSURE RECTANGULAR SHEET METAL DUCTS." ALL DUCTWORK SHALL COMPLY WITH ASHRAE AND SMACNA STANDARDS.
- II. ALL DUCTWORK TO BE SUPPORTED FROM BUILDING CONSTRUCTION WITH ROD HANGERS AND PROPERLY SIZED ANGLE IRON BOTTOM SUPPORTS. THE DUCTS SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER AND SHALL BE SO INSTALLED AS TO BE COMPLETELY FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. THE DUCTS SHALL BE PROPERLY BRACED AND REINFORCED WITH STEEL ANGLES OR OTHER STRUCTURAL MEMBERS SPACED NOT MORE THAN 60" ON CENTERS. ALL SAGGING DUCTWORK WILL BE REMOVED AND REHUNG AS DIRECTED BY ENGINEER.
- 12. FLEXIBLE DUCTS AND CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND BE LABELED. FLEXIBLE DUCTS AND CONNECTORS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 5'-O".
- 13. ALL DUCTWORK SHALL BE INSULATED AS FOLLOWS UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. COVERINGS AND LININGS, INCLUDING ADHESIVES, SHALL HAVE A FLAME-SPREAD INDEX NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL DUCTWORK LOCATED WITHIN A SPACE THAT DOES NOT DIRECTLY COMMUNICATE WITH THE OUTDOORS, AND IS WITHIN THE BUILDING ENVELOPE SHALL BE CONSIDERED TO BE WITHIN A CONDITIONED SPACE

CONDITIONED SPACES (INCLUDING DUCT IN PLENUM RETURN CEILING) RECTANGULAR: GLASS FIBER LINING WITH R-4 INSTALLED VALUE FOIL FACED DUCT WRAP WITH R-4 INSTALLED VALUE

\*OUTSIDE AIR INTAKE DUCTWORK IN CONDITIONED SPACES SHALL BE WRAPPED WITH R-5 FOIL FACED DUCT WRAP.

UNCONDITIONED SPACE (INCLUDING DUCT IN NON-PLENUM RETURN CEILING) RECTANGULAR: FOIL FACED DUCT WRAP WITH R-6 INSTALLED VALUE. FOIL FACED DUCT WRAP WITH R-6 INSTALLED VALUE

- 14. ALL DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- 15. THE MECHANICAL CONTRACTOR SHALL SUBMIT DIGITAL PRODUCT SHOP DRAWINGS FOR ALL NEW EQUIPMENT AND DUCT LAYOUT TO BE FURNISHED FOR ARCHITECT, OWNER, AND ENGINEER'S APPROVAL. CATALOG CUT SHEETS FOR ALL EQUIPMENT AND MATERIAL SHALL BE MADE AVAILABLE ON SITE. ALL EQUIPMENT AND APPLIANCES MUST BEAR LABEL INDICATING SUITABLE FOR USE. THE MECHANICAL CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO THE BUILDING OWNER, INCLUDING INSTALLATION FOR OUTSIDE INSTALLATION WHEN APPLICABLE.
- 16. THE EQUIPMENT SPECIFIED TO SET STANDARDS, INTENTION IS "OR EQUAL" IF APPROVED PRIOR TO BID
- 17. THE MECHANICAL CONTRACTOR SHALL HIRE AN INDEPENDENT AND CERTIFIED TEST AND BALANCE CONTRACTOR TO BALANCE SYSTEM TO AIR QUANTITIES AS INDICATED ON PLANS, AND SHALL PROVIDE A TEST AND BALANCE REPORT TO BE SENT TO THE VILLAGE BUILDING DEPARTMENT NO LESS THAN THREE DAYS PRIOR TO FINAL INSPECTION. CONTRACTOR SHALL ALSO PROVIDE COPIES OF THE BALANCE REPORT TO THE OWNER, ARCHITECT, AND ENGINEER. REPORT SHALL ALSO INCLUDE FAN RPM AND PRESSURE INFORMATION.
- 18. PROVIDE 7-DAY PROGRAMMABLE ELECTRONIC THERMOSTAT WITH 2 HOUR OVERRIDE, IO HOUR BATTERY BACKUP, AUTOCHANGEOVER BETWEEN HEATING AND COOLING MODES, 5 DEGREE DEADBAND, DIGITAL READOUT, AND FAN AUTO/ON CONTROLS. THERMOSTAT SHALL BE MANUFACTURED BY HONEYWELL, WHITE-ROGERS OR APPROVED EQUAL. PROVIDE CLEAR PLASTIC LOCKING COVER WITH KEYS.
- 19. ALL DUCT LAYOUTS, PIPING LAYOUTS, WIRING LAYOUTS, ETC. ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL CERTIFY IN WRITING TO THE OWNER AND ARCHITECT THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF DUCTS, PIPING, CONDUITS, ETC. AND START OF INSTALLATION OF SAME. ANY INSTALLATION OF CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.



charles vincent george ARCHITECTS

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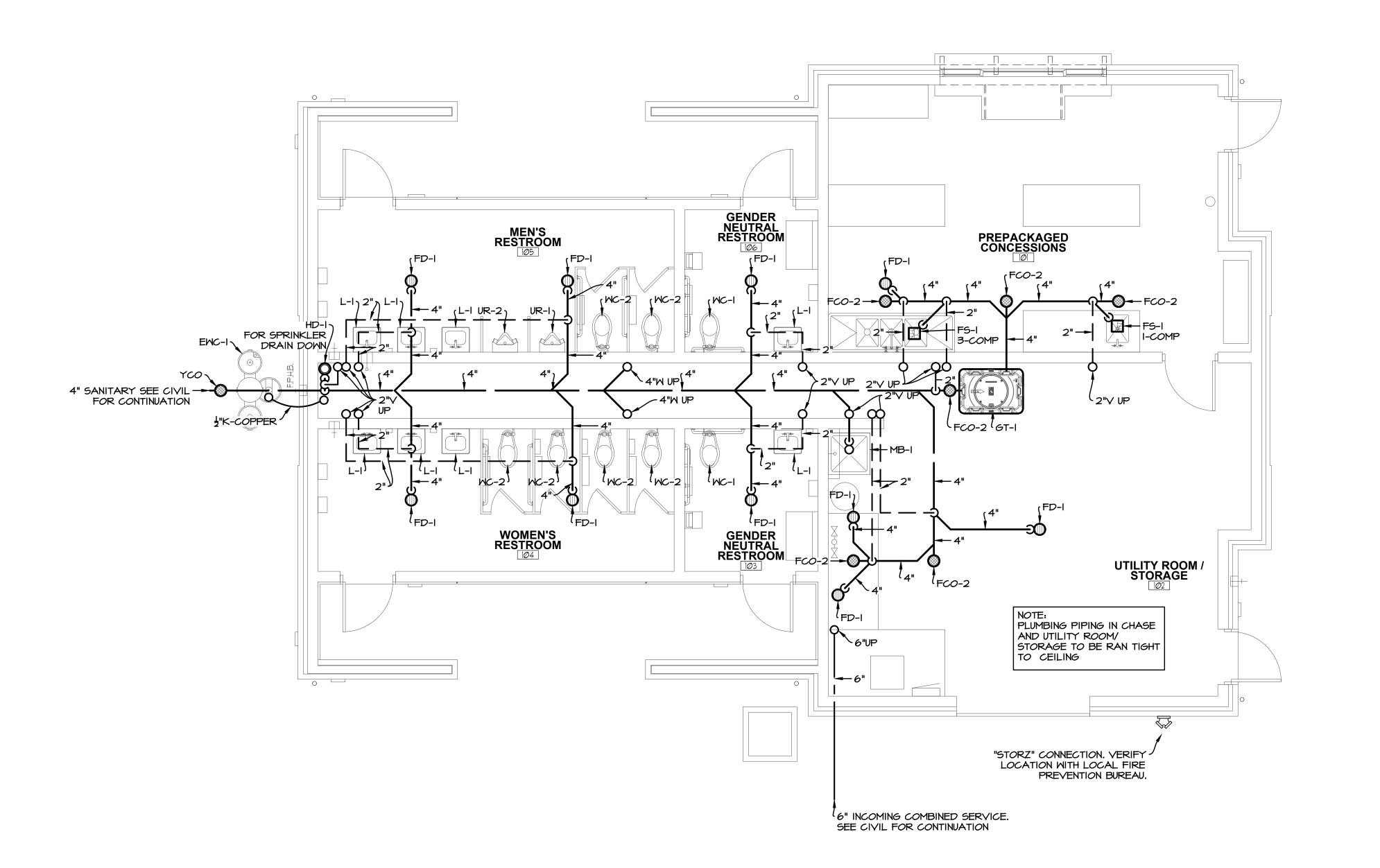
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MECHANICAL SCHEDULES, DETAILS,

AND NOTES 06/24/2022 Engineering with Precision, Pace & Passion CS 2675 Pratum Avenue | Hoffman Estates, IL 60192 P: 224.293.6333 | F: 224.293.6444 DRAWING FILE PATE :/2022/DRAWINGS/

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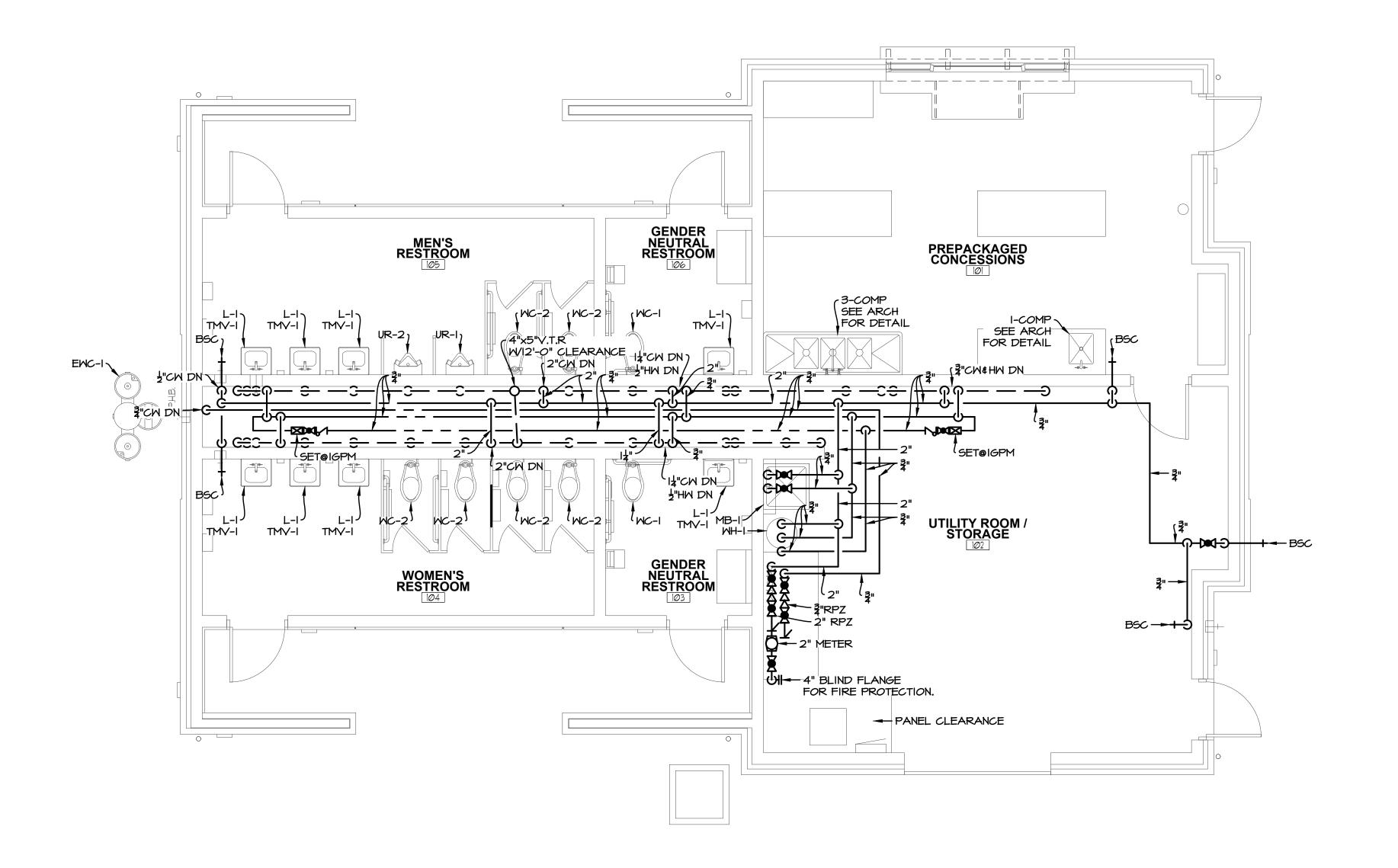
UNDERGROUND PLUMBING PLAN



WT Group	DATE: 06/24	4/202
Engineering • Design • Consulting		
Structural   Mechanical/Electrical/Plumbing Civil   Land Survey   Telecommunication   Aquatic Accessibility Consulting   Design & Program Management	PRINCIPAL:	MV
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**UNDERGROUND PLUMBING PLAN** 

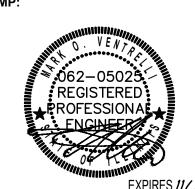
**SCALE:** 1/4" = 1'-0"





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ABOVE GROUND PLUMBING

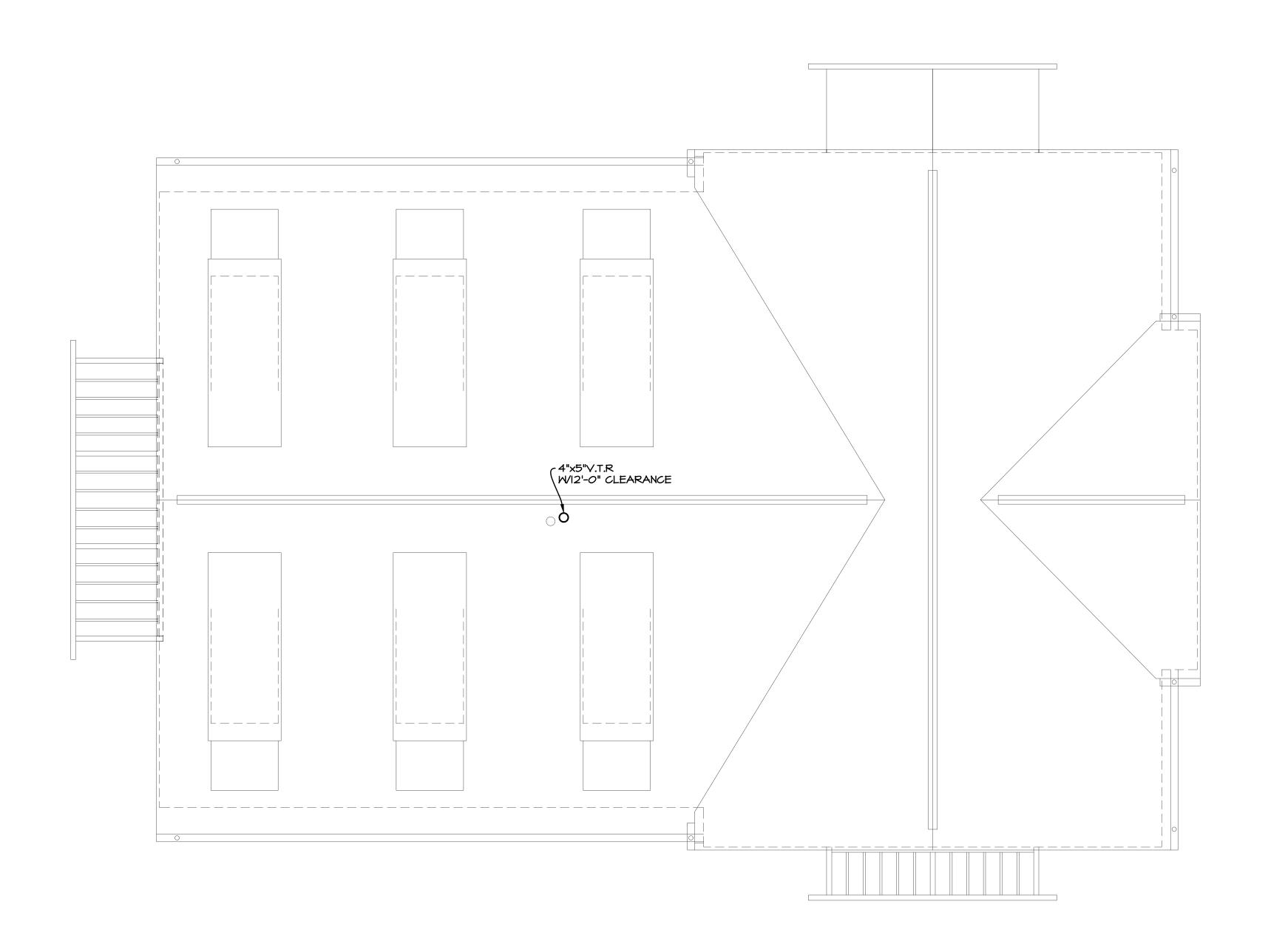


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**ABOVE GROUND PLUMBING PLAN** 

**SCALE:** 1/4" = 1'-0"





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ROOF PLUMBING PLAN

Civil | Land Survey | Telecommunication | Aquatic Accessibility Consulting | Design & Program Management Engineering with Precision, Pace & Passion.

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# **ROOF PLUMBING PLAN** SCALE: 1/4" = 1'-0"

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL: ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS.

CONTRACTOR TO MAKE ALL NECESSARY TAPS, AS CALLED FOR ON THE DRAWINGS.

FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

THIS CONTRACTOR SHALL REMOVE ALL DEBRIS ON A REGULAR BASIS AND UPON COMPLETION OF THE JOB AND CLEAN ALL FIXTURES.

COVER ALL HOT, COLD AND HOT WATER RETURN LINES, ROOF DRAINS AND HORIZONTAL DOWNSPOUT PIPING. PIPE COVERING TO BE SHALL BE 3-1/2 LB. DENSITY FIBERGLASS WITH MOLDED FITTINGS AND BUTT JOINTS AND VAPOR BARRIER. WATER PIPING INSULATION SHALL BE INSTALLED PER 2015 IECC SEC. C404.5 \$ C404.6.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO START UP, ADJUST AND CHECK FOR PROPER OPERATION ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICE ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (I) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

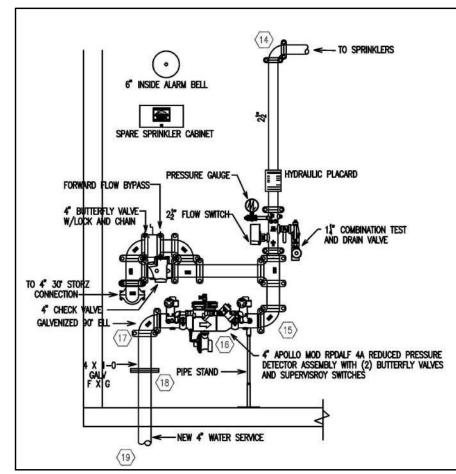
ALL WATER PIPING SHALL BE TESTED WITH WATER UNDER PRESSURE OF 100 PSI FOR IO MINUTES, AND MADE TIGHT AT THIS PRESSURE.

ALL SOIL, WASTE AND VENT PIPING SHALL BE SUBJECTED TO A HYDROSTATIC TEST OF NOT LESS THAN 10 FEET OF WATER COLUMN FOR 15 MINUTES BEFORE INSPECTION STARTS AND PROVEN TIGHT.

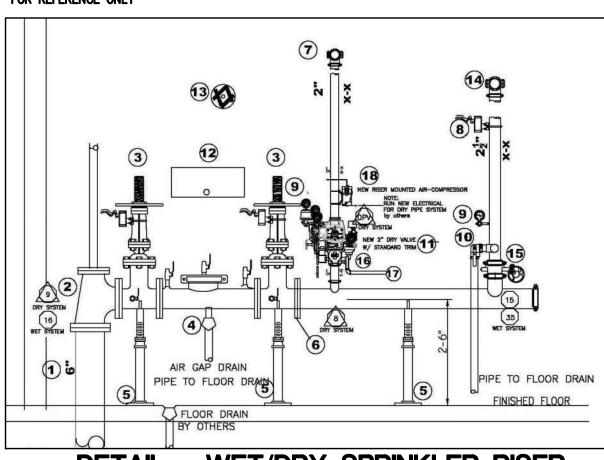
BEFORE TURNING PLUMBING SYSTEM OVER TO THE OWNER, CHLORINATE ALL DOMESTIC WATER PIPING FOR A PERIOD OF 24 HOURS. AFTER CHLORINATION HAS BEEN COMPLETED, FLUSH ALL PIPING UNTIL WATER RUNS CLEAR AND IS RESIDUAL CHLORINE FREE.

ALL BELOW GROUND WASTE & VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON. SCHEDULE 40 PVC IS ACCEPTABLE IF PERMITTED BY LOCAL CODE. THE MINIMUM DIAMETER FOR ALL UNDERGROUND WASTE PIPING IS FOUR (4) INCHES, THE MINIMUM DIAMETER FOR ALL UNDERGROUND VENT PIPING IS TWO (2) INCHES. ALL BELOW GROUND WATER PIPING SHALL BE TYPE "K" COPPER. ALL ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER. ALL ABOVE GROUND WASTE AND VENT PIPING 2" AND SMALLER SHALL BE TYPE "M" COPPER. ALL ABOVE GROUND WASTE AND VENT PIPING 3" AND LARGER SHALL BE SERVICE WEIGHT CAST IRON. SCHEDULE 40 PVC IS ACCEPTABLE FOR ABOVE GROUND D.W.V. SYSTEMS IN NON-PLENUM CEILINGS IF PERMITTED BY LOCAL CODE.

THE PLUMBING SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH THE STATE OF ILLINOIS PLUMBING CODE AND ALL LOCAL CODES, AMENDMENTS AND ORDINANCES.



## **DETAIL - WET SPRINKLER RISER** FOR REFERENCE ONLY



DETAIL - WET/DRY SPRINKLER RISER FOR REFERENCE ONLY

"AMERICAN STANDARD" MODEL# 3353,101 AFWALL TOILET. WALL-MOUNTED, BACK-SPUD FLUSH VALVE TOILET, VITREOUS CHINA, EVERCLEAN FINISH, ULTRA HIGH-EFFICIENCY (1.28 GPF), CONDENSATION CHANNEL, ELONGATED BOWL, POWERFUL DIRECT-FED SIPHON JET ACTION, I-I/2" TOP SPUD, FULLY-GLAZED 2-1/8" TRAPWAY. ADA MOUNTING HEIGHT

FIXTURE SCHEDULE

"SLOAN" OR EQUAL MODEL #152-1.28 HARDWIRED ROYAL FLUSHOMETER. CONCEALED, ULTRA HIGH-EFFICIENCY (1.28 GPF) FOR BACK-SPUD BOWLS.

"JAY R SMITH" MODEL #0410 WATER CLOSET SUPPORT.

"BEMIS" MODEL #215599CT OPEN FRONT LESS COVER, ELONGATED, HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT. SEAT CONTAINS DURAGUARD ANTIMICROBIAL BUILT-IN SEAT

"AMERICAN STANDARD" MODEL# 3353.101 AFWALL TOILET. WALL-MOUNTED, BACK-SPUD FLUSH VALVE TOILET, VITREOUS CHINA EVERCLEAN FINISH, ULTRA HIGH-EFFICIENCY (1.28 GPF), CONDENSATION CHANNEL, ELONGATED BOWL, POWERFUL DIRECT-FED SIPHON JET ACTION, I-I/2" TOP SPUD, FULLY-GLAZED 2-1/8" TRAPWAY.

> "SLOAN" OR EQUAL MODEL #152-1,28 HARDWIRED ROYAL FLUSHOMETER. CONCEALED, ULTRA HIGH-EFFICIENCY (1.28 GPF) FOR BACK-SPUD BOWLS.

"JAY R SMITH" MODEL #0410 WATER CLOSET SUPPORT.

"BEMIS" MODEL #2155SSCT OPEN FRONT LESS COVER, ELONGATED, HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT. SEAT CONTAINS DURAGUARD ANTIMICROBIAL BUILT-IN SEAT

"AMERICAN STANDARD" MODEL# 6515,001 WASHBROOK URINAL VITREOUS CHINA, O.125 GPF,, FLUSHING RIM, ELONGATED 14" RIM FROM FINISHED WALL, WASHOUT FLUSH ACTION, EXTENDED SIDES FOR PRIVACY, 3/4" TOP SPUD, OUTLET CONNECTION THREADED 2" INSIDE, 2 WALL HANGERS. MOUNT AT ADA HEIGHT.

"SLOAN" MODEL #195-0.125 ROYAL CONCEALED, HIGH-EFFICIENCY (0125 GPF) BACK TOP-SPUD URINALS.

"JAY R SMITH" MODEL #637 URINAL SUPPORT

"AMERICAN STANDARD" MODEL# 6515.001 WASHBROOK URINAL VITREOUS CHINA, O.125 GPF,, FLUSHING RIM, ELONGATED 14" RIM FROM FINISHED WALL, WASHOUT FLUSH ACTION, EXTENDED SIDES FOR PRIVACY, 3/4" TOP SPUD, OUTLET CONNECTION THREADED 2" INSIDE, 2 WALL HANGERS.

"SLOAN" MODEL #195-0.125 ROYAL CONCEALED, HIGH-EFFICIENCY (0125 GPF) BACK TOP-SPUD URINALS.

"JAY R SMITH" MODEL #637 URINAL SUPPORT

"AMERICAN STANDARD" MODEL# 0355.027 LUCERNE LAVATORY WALL-HUNG, VITREOUS CHINA, FRONT OVERFLOW, D-SHAPED BOWL, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, FAUCET HOLES ON 4" CENTERS AND WALL HANGER.

"SLOAN" MODEL #ETF600-8-B CP ELECTRONIC HARDWIRED SENSOR OPERATED LAVATORY FAUCET. O.5 GPM, 4" CENTERS, 8" TRIM PLATE. SLOAN ETF-233 PLUG IN TRANSFORMER (FOR 2 FCTS)

"SYMMONS" MODEL #8210 POINT-OF-USE THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECKS, (SET TEMPERATURE SHALL NOT EXCEED IIO DEGREES F)

"MCGUIRE" MODEL #PW2I25WCPRO SEAMLESS PRE-WRAPPED ADJUSTABLE CAST BRASS P-TRAP KIT WITH PRE-WRAPPED PRO-DRAIN OFFSET GRID STRAINER. KIT ALSO INCLUDES SUPPLY COVERS.

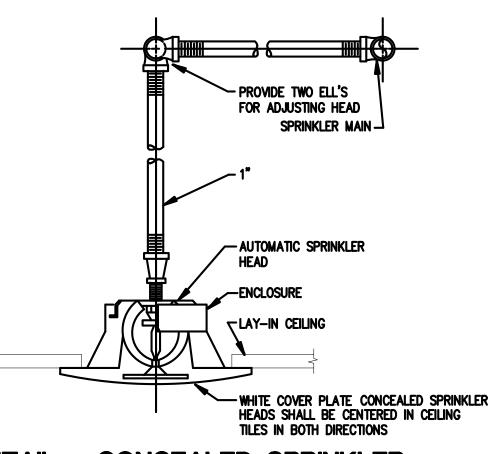
PROVIDE CHROME-PLATED ANGLES STOPS, ESCUTCHEONS AND

"JAY R SMITH" MODEL #0700-27-M3I LAVATORY SUPPORT.

"EL MUSTEE" #63M MOLDED STONE BASIN WITH INTEGRAL DRAIN BODY.

"CHICAGO" 897-RCF SERVICE FAUCET FITTING WITH VACUUM BREAKER, HOSE THREAD SPOUT AND INTEGRAL STOPS. PROVIDE CHECK VALVES ON CW AND HW WATER PIPING UPSTREAM OF

"MOST DEPENDABLE FOUNTAINS" #10150SM W/PET FOUNTAIN, W/RECESSED HOSE BIBB. BLACK IN COLOR.



**DETAIL - CONCEALED SPRINKLER** 

NOT ALL SYMBOLS MAY APPLY EXISTING COLD WATER PIPING EXISTING HOT WATER PIPING EXISTING HOT WATER RETURN PIPING EXISTING UNDERGROUND SEWER

PLUMBING SYMBOLS

EXISTING SUSPENDED SEWER EXISTING VENT PIPING

COLD WATER PIPING (INSULATED)

HOT WATER PIPING (INSULATED) HOT WATER RETURN PIPING (INSULATED)

TEMPERED WATER PIPING (INSULATED)

TEMPERED WATER RETURN PIPING (INSULATED)

UNDERGROUND SEWER SUSPENDED SEWER

DRAIN TILE

CO CLEAN-OUT PLUG NOTE: JR SMITH OR MIFAB ACCEPTIBLE

WALL CLEAN-OUT ("SMITH" #4422, MIFAB CI450-RD) FLOOR CO ("SMITH" #4040, MIFAB C1220-S-3) FF

FCO-2 FLOOR CO ("SMITH" #4020) FINISHED AREAS

FLOOR CLEAN-OUT ("SMITH" #4250) NO-LOAD AREAS FLOOR DRAIN ("SMITH" #2010A-NB, MIFAB F1100-C-5-3)

FLOOR CO ("SMITH" #4220, MIFAB CI220-XR-4) UNFF

FLOOR DRAIN ("SMITH" #2210, MIFAB F1320-TFB)

FLOOR FUNNEL DRN ("SMITH" #3510, MIFAB F1100-C-EF-3) FLOOR DRAIN ("SMITH"#2230)

HUB DRAIN AREA DRAIN ("SMITH" #2675)

FLOOR SINK ("SMITH #3101-12) RD ROOF DRAIN ("SMITH" #1010-C-CID) OD OVERFLOW ROOF DRAIN ("SMITH" #1070-C-CID)

DOWNSPOUT NOZZLE ("SMITH" #1770-BS) DSN GATE VALVE ("NIBCO" #5-134 OR T-134)

BALL VALVE ("NIBCO" #S-585-70 OR T-585-70) BALANCING VALYE ("NIBCO" #5-1710 OR T-1710) CHECK VALVE ("NIBCO" #5-433 OR T-433)

STRAINER ("NIBCO" #5-221/222-A OR T-221/222-A) DUAL CHECK WITH VENT AND STRAINER ("WATTS" #SD-3)

DUAL CHECK WITH ATMOSPHERIC VENT ("WATTS" #9D) DUAL CHECK VALVE ("WATTS" SERIES 7)

PRESSURE VACUUM BREAKER ("WATTS" #008PCQT) ATMOSPHERIC VACUUM BREAKER ("WATTS" #288A)

BOXED WALL HYDRANT ("WOODFORD" #B67 OR RB67) YARD HYDRANT ("WOODFORD" 53)

TRENCH DRAIN ("SMITH" #9816) STACK OR RISER DESIGNATION

NEW CONNECTION BETWEEN NEW AND EXISTING

DFU - DRAINAGE FIXTURE UNIT DN - DOWN

CW - COLD WATER

DS - DOWNSPOUT GPM - GALLONS PER MINUTE

HW - HOT WATER HWR - HOT WATER RETURN

ISO - ISOLATION

SAN - SANITARY

NPCW - NON POTABLE COLD WATER

KW - KITCHEN GREASE WASTE OW - OIL WASTE

ST - STORM

YTR - YENT THROUGH ROOF

VIF - VERIFY IN FIELD W&Y - WASTE & VENT

WSFU - WATER SERVICE FIXTURE UNIT

**PLUMBING NOTES** 

 ALL CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS, WITH EQUIPMENT CABINETS, ETC. PROVIDE FULL SIZED CLEANOUTS ON STRAIGHT RUN INTERVALS NOT TO EXCEED FIFTY (50') AS WELL AS AT EACH CHANGE OF DIRECTION GREATER THAN (60 DEGREES). FIXTURE TRAPS (I.E. FLOOR DRAINS) SHALL NOT CONSTITUTE CLEAN-OUT ACCESS POINTS IF A CABLE MUST MAKE TWO (2) OR MORE RIGHT ANGLE TURNS IN ORDER TO ENTER THE MAIN DRAIN OR STACK.

- 2) ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12" FROM ANY VERTICAL SURFACE AND 12'-O" HORIZONTALLY FROM ANY OUTSIDE FRESH AIR INTAKE OR A MINIMUM OF 24" ABOVE FRESH AIR IN-TAKES IF THE 12'-O" HORIZONTAL SEPARATION IS NOT POSSIBLE.
- 3) INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE.
- 4) PROVIDE 12" (MINIMUM) LONG AIR CHAMBERS ON ALL WATER SUPPLY LINES TO FIXTURES AND EQUIPMENT. PROVIDE WATER HAMMER ARRESTORS AT ALL FIXTURES WITH QUICK-CLOSING VALVES/FAUCETS.
- 5) PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE TWO (2) TIMES THE DIAMETER OF THE INDIRECT DRAIN.
- 6) PROVIDE DI-ELECTRIC UNIONS, COUPLINGS, ADAPTORS OR FLANGES AT ALL TRANSITIONS OF FERROUS PIPING TO NON-FERROUS PIPING.
- 7) PROVIDE NON-REMOVEABLE/INTEGRAL VACUUM BREAKER ON ALL NEW AND EXISTING MOP BASIN FAUCETS AND ALL OTHER NEW AND EXISTING THREADED HOSE OUTLETS, HOSE BIBS AND WALL HYDRANTS.
- COORDINATE ROUTING OF ALL PIPING SYSTEMS TO AVOID DUCTWORK, ELECTRICAL CONDUIT, BEAMS AND OTHER STRUCTURAL MEMBERS.
- 9) PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS NOT RECEIVING DISCHARGE ON A REGULAR BASIS FROM WATER SUPPLIED FIXTURES
- IO) PROVIDE VALVE STEM EXTENSIONS AS REQUIRED FOR ALL INSULATED WATER SUPPLY PIPING.
- II) PROVIDE GROUTING/CAULKING WHERE FIXTURES MEET WALLS, FLOORS, COUNTERTOPS, ETC.
- 12) PROVIDE APPROVED AIR GAP FITTING PROTECTION AT DISHWASHER DISCHARGE INTO SANITARY SYSTEM.
- 13) PROVIDE ADA-COMPLIANT FLUSH VALVE HANDLES THAT ACTIVATE WITH FIVE FOOT POUNDS OF PRESSURE OR LESS FORCE. LOCATE ALL WATER CLOSET FLUSH VALVE HANDLES ON WIDE SIDE OF STALLS.
- 14) ROUTE CIRCULATING HOT WATER DISTRIBUTION MAINS WITHIN 25 FEET (MINIMUM) OF EACH FIXTURE. PROVIDE AUTOMATIC PRESSURE COMPENSATING FLOW CONTROL VALVES FOR BALANCING CONTROL IN ACCESSIBLE LOCATIONS (PROVIDE ACCESS PANEL AS REQUIRED). INSULATE ALL RE-CIRCULATION PIPING.
- 15) PROVIDE PROPER CLEARANCE FOR GREASE TRAPS IN ORDER TO ALLOW LIFTING AND CLEANING OF SCREENS AND REGULAR ROUTINE MAINTENANCE. PROVIDE AIR IN-TAKE, FLOW CONTROL FITTING AND EXTENSION AS REQUIRED.
- 16) ALL EXPOSED WASTE PIPING LOCATED IN TOILET ROOMS SHALL BE CHROME PLATED BRASS WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE LOOSE KEY TYPE STOPS IN ALL PUBLIC AREAS OR WHERE VANDAL RESISTANT INSTALLATIONS ARE REQUIRED. ALL RISER TUBES SHALL BE RIGID AND CHROME PLATED.
- 17) PROVIDE PROTECTIVE INSULATED PIPE COVERS ON P-TRAPS, ANGLE STOPS, OFFSET TAILPIECES, RISER SUPPLY TUBES, ETC. FOR ALL ADA ACCESSIBLE FIXTURES.
- 18) PROVIDE A.S.S.E. 1070 APPROVED POINT-OF-USE THERMOSTATIC MIXING VALVE TO SUPPLY 110 DEGREES (MAXIMUM) HOT WATER TO ALL PUBLIC AND ADA ACCESSIBLE LAVATORIES. PROVIDE 115 DEGREE F (MAXIMUM) HOT WATER TO ALL SHOWERS. PROVIDE 140 F DEGREE HOT WATER TO ALL FIXTURES WHERE HOT WATER IS REQUIRED FOR SANITIZING OR
- 19) PROVIDE A VACUUM RELIEF VALVE ON ALL ELEVATED OR BOTTOM FED WATER HEATERS IN ADDITION TO A TEMPERATURE & PRESSURE RELIEF VALVE.
- 20) PROVIDE DRIP VALVE ON THE DISCHARGE SIDE OF THE DOMESTIC
- 21) OUTLET TEMPERATURE ON ALL WATER HEATERS SHALL BE SET AT 135 DEGREES F (MINIMUM) AND THERMOSTATICALLY MIXED DOWN AT POINTS INDICATED ON PLANS.
- 22) ALL BACK-FLOW PREVENTION DEVICES SHALL BE TESTED IN-LINE AND APPROVED BY A CROSS-CONNECTION CONTROL DEVICE INSPECTOR BEFORE BEING PLACED INTO SERVICE. BACK-FLOW PREVENTION DEVICES SHALL BE TESTED AND MAINTAINED AT LEAST ANNUALLY BY A CROSS-CONNECTION CONTROL DEVICE INSPECTOR AND RECORDS TO VERIFY TESTING AND MAINTENANCE SHALL BE AVAILABLE AT THE SITE OF THE INSTALLATION OF THE DEVICE. BACK-FLOW PREVENTION DEVICES SHALL NOT BE INSTALLED MORE THAN 5'-O" ABOVE THE FLOOR. PROVIDE A PROTECTIVE STRAINER UPSTREAM OF ALL BACK-FLOW PREVENTION DEVICES UNLESS THE DEVICE CONTAINS A BUILT-IN STRAINER.
- 23) ALL WATER SUPPLY DISTRIBUTION PIPING CONVEYING "NON-POTABLE" MATER SHALL BE PERMANENTLY IDENTIFIED BY A DISTINCTIVE YELLOW-COLORED PAINT.
- 24) PROVIDE LEAD ROOF FLASHING ON ALL VENT STACKS PENETRATING THROUGH THE ROOF (EXCEPT RUBBER ROOFS). PROVIDE INCREASER
- 25) FURNISH FIRE RATED PIPE SLEEVE OR FIRE CAULKING ON ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS/FLOORS.

26) PLUMBING CONTRACTOR TO VERIFY ALL EXISTING WASTE, VENT AND

WATER SUPPLY PIPING WHERE NEW CONNECTIONS ARE TO BE MADE

REQUIREMENTS IN FIELD. REPORT ANY MAJOR DISCREPANCIES TO

PRIOR TO BID. VERIFY EXACT SIZE, LOCATION, INVERT, CONDITION AND

"SCHIER MODEL #GB-75

**GREASE TRAP CALCULATION (GT-1)** FIXTURE COUNT # COMPARTMENTS L (In) W (In) H (In) TOTAL / 231 FIXTURE 17,280 3 COMP SK 20 | 16 | 18 5,760 24.9 I-COMP 20 | 16 | 18 <u>FORMULA</u> 100% TOTAL LIQUID HOLDING CAPACITY: 99.7 GAL 75.0 GPM - 125 GAL TOTAL CAPACITY: L x W x H / 231 x TOTAL GREASY SLUDGE CAPACITY:

ARCHITECT/ENGINEER IMMEDIATELY.

# of Compartments

# SPRINKLER SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS ISSUED BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL: ACCEPTANCE BY THE OWNER SHALL BE A CONDITION WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM AND AVOID OMISSIONS.

CONTRACTOR TO MAKE ALL NECESSARY TAPS, AS CALLED FOR ON THE

THIS CONTRACTOR SHALL REMOVE ALL DEBRIS ON COMPLETION OF THE JOB AND CLEAN ALL FIXTURES.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO START-UP, ADJUST AND CHECK FOR PROPER OPERATION, ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICE ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (I) YEAR FROM DATE OF FINAL INSPECTION OF THE WORK.

THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER, OWNERS INSURANCE UNDERWRITER, AND LOCAL FIRE DEPARTMENT FOR APPROVAL COMPLETE INSTALLATION AND DESIGN DRAWINGS SHOWING THE SPRINKLER SYSTEM LAYOUTS. THE LAYOUT SHALL INDICATE ALL OF THE SPRINKLER PIPING, SPRINKLER HEAD LOCATIONS AND DETAILS OF ANCHORS AND SUPPORTS AS REQUIRED.

THE SPRINKLER SYSTEM SHALL BE LAID OUT TO ELIMINATE ALL CONFLICTS BETWEEN THE SPRINKLER SYSTEM AND THE STRUCTURE INCLUDING THE MECHANICAL AND ELECTRICAL SYSTEMS AS THEY ARE SHOWN ON THE CONTRACT DRAWINGS.

THE LAYOUT SHALL INDICATE COORDINATION BETWEEN SUCH ITEMS AS DUCTWORK, LIGHTS, STRUCTURAL MEMBERS, ETC. PIPE FOR ABOVE GRADE SHALL BE NEW SCHEDULE 40 FOR BRANCHES AND SCHEDULE 10 FOR MAINS. STANDARD WEIGHT STEEL DESIGNED FOR 175 LB. WORKING PRESSURE, CONFORMING TO A.S.A. B36.10 MANUFACTURED IN THE U.S.

FITTINGS SHALL BE NEW 125 LB. CAST IRON SCREWED OR FLANGED CONFORMING TO A.S.A. BI6.4, MANUFACTURED IN THE U.S. AND APPROVED FOR FIRE PROTECTION SPRINKLER SYSTEMS.

THE SPRINKLER RISERS, MAINS AND BRANCH PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, USING APPROVED TYPE STEEL HANGERS, BRACKETS, ANCHORS AND STUDS, OF SIZE AND NUMBER IN ACCORDANCE WITH N.F.P.A. #13.

THE SPRINKLER SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH PAMPHLET IS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT AND OWNER'S INSURANCE

ALL PIPING ABOVE GRADE SHALL BE HYDROSTATICALLY TESTED AT 200 PSIG FOR A TWO-HOUR PERIOD IN ACCORDANCE WITH N.F.P.A. #24.

CONTRACTOR IS RESPONSIBLE FOR SPACING, PIPE SIZE, OFFSETS CLEARANCES, VALVES, ELBOWS, HANGERS, ALL ACCESSORIES AND QUANTITIES FOR ALL.

THIS CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM PER NFPA AND LOCAL CODES. THE UNCONDITIONED SPACE WILL BE SERVED BY A DRY PIPE SYSTEM. THIS

CONTRACTOR SHALL DESIGN THE DRY PIPE SPRINKLER SYSTEM PER NFPA

AND LOCAL CODES. THE FIRE PROTECTION CONTRACTOR TO VERIFY WITH THE CITY OF CHICAGO FIRE DEPARTMENT THAT NO HEADS ARE REQUIRED IN THE NON-CONDITIONED NON-COMBUSTIBLE SPACE IN THE DRIVE THRU AREA. SEE ARCHITECTURAL

PLANS FOR FE EXTINGUISHER LOCATIONS AND SPECIFICATIONS..

# EQUIPMENT SCHEDULE

"AO SMITH" MODEL #DSE-100-24KW ELECTRIC WATER HEATER HEATER HAS A CAPACITY OF 80 GALLONS. HEATER HAS A 208V, 3 PHASE, 24KM. HEATER SHALL RECOVER 98 GALLONS PER HOUR AT A 100 DEGREE TEMPERATURE RISE.

PROVIDE METAL DRAIN PAN AND WALL MOUNTED PLATFORM. VACUUM RELIEF VALVE. COORDINATE WITH ELECTRICIAN.

AMTROL OR EQUAL ST-25Y THERMAL EXPANSION TANK

SHALL PROVIDE 3 FT OF HEAD AT 3.0 GPM. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.

PROVIDE HONEYWELL AQUA-STAT WITH CIRCULATION PUMP

"TACO" MODEL #003-BC4-IFC CARTRIDGE CIRCULATOR, PUMP

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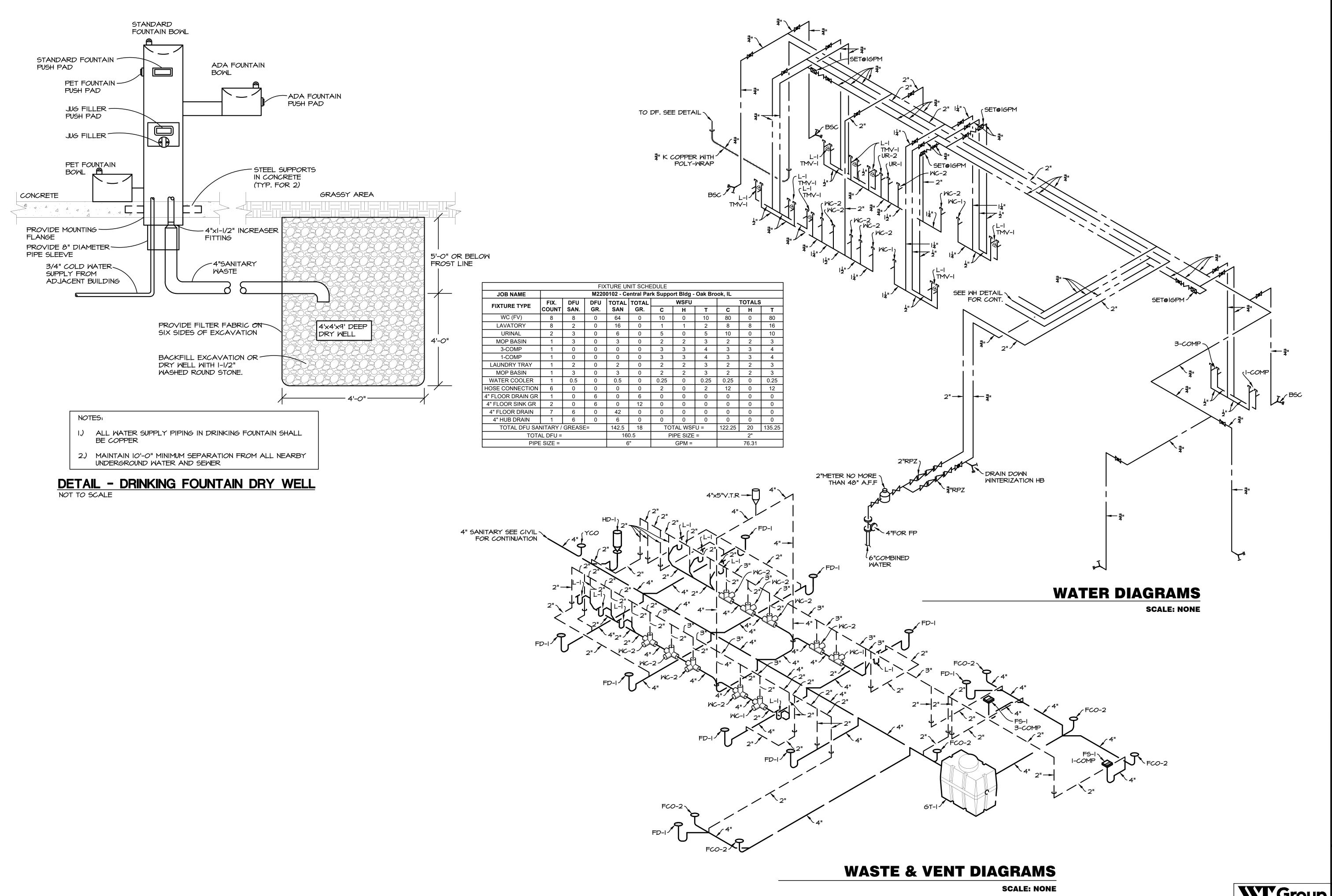
PLUMBING DETAILS. NOTES, AND SPECIFICATIONS

:/2022/DRAWINGS/

3.1 EXTERIOR ELEVATIONS\_2205



06/24/2022 2022-053 RINCIPAL MV ROJECT MGR: DRAWN BY CS CS,WT,BR DRAWING FILE PAT





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# DISTRICT

PORT BUILDING FOR:

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PLUMBING DIAGRAMS

BROOK

Engineering • Design • Consulting

Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication | Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.

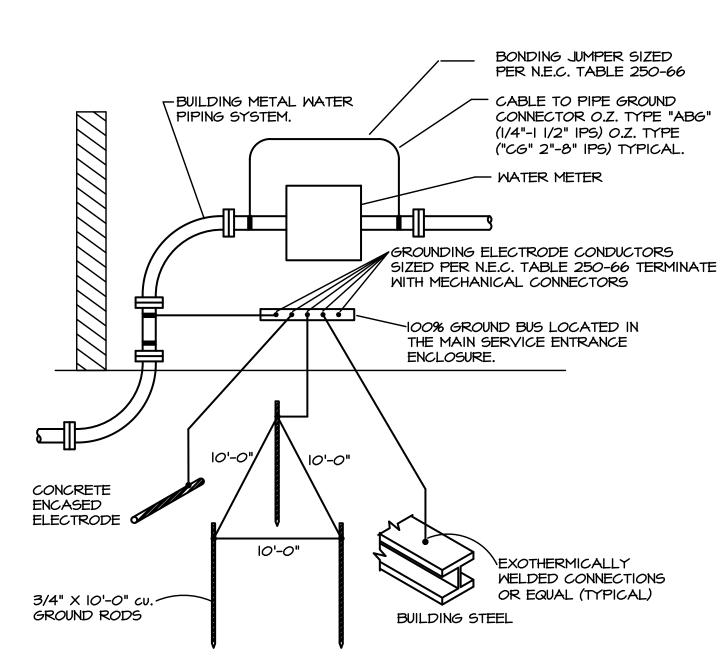
2675 Pratum Avenue | Hoffman Estates, IL 60192
P: 224.293.6333 | F: 224.293.6444

whengineering.com

DATE: 06/24	PROJECT # <b>2022-05</b> 3	
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# **\*** KEYED NOTES

- I. FLUSH MOUNT TO WALL WITH TAMPER/WEATHER PROOF COVER.
- 2. I I-I/2", 2 I", AND I 3/4" EMPTY CONDUIT UNDERSLAB TO FUTURE PAVILION (a) AND AMPHITHEATER (b). SEE CIVIL DRAWINGS FOR
- 3. HARD WIRED CONNECTION TO PLUMBING FIXTURE FOR SENSOR OPERATORS AND FLUSH VALVES. ROUTE THROUGH PLUMBING CHASE.
- 4. 2" EMPTY CONDUIT FOR FIBER SERVICE. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 5. OVERHEAD DOOR OPERATOR.
- 6. 60A/600V/3P NEMA 3R NFDS.
- 7. HAND DRYER.
- 8. ELECTRICAL EQUIPMENT CLEARANCE SPACE AT LEAST 30 INCHES WIDE AND 36 INCHES DEEP. VILLAGE OF OAK BROOK AMENDMENT TO 2014 NEC SECTION 110.26 (B) CLEAR SPACES. "IN OTHER THAN DWELLING UNITS, THE REQUIRED CLEAR SPACE SHALL BE PLAINLY IDENTIFIED BY PERMANENT MARKING- IN A CONTRASTING COLOR- ON THE FLOOR."
- 9. 100A/600V/3P NEMA I NFDS.



# DETAIL - GROUNDING ELECTRODE SYSTEM NO SCALE

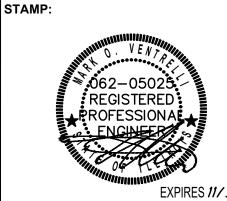
NOTE: THIS DETAIL IS NOT A SUBSTITUTE FOR AN UNDERSTANDING OF THE GROUNDING AND BONDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY IN THE AREA THE WORK IS TAKING PLACE.



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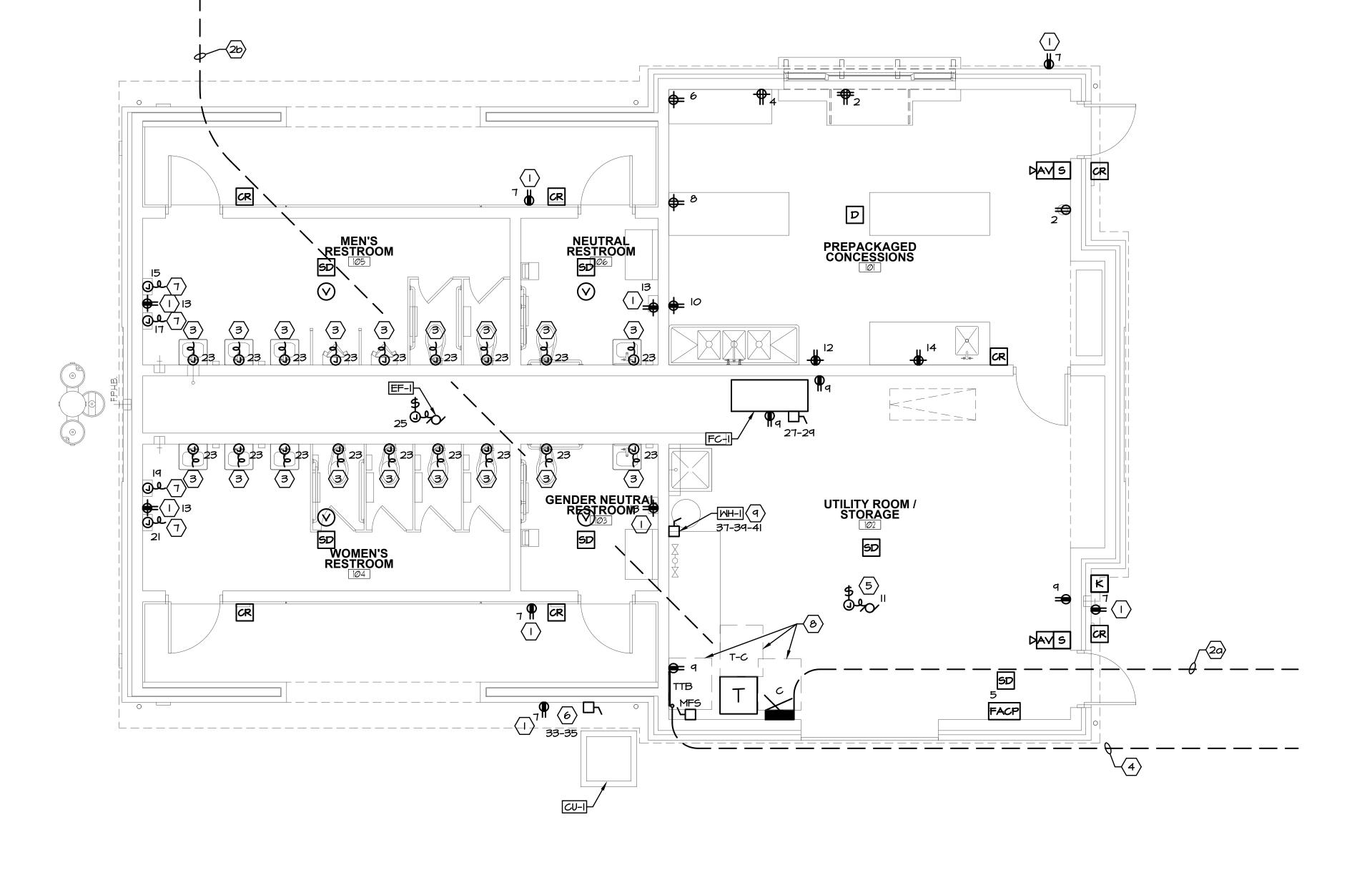
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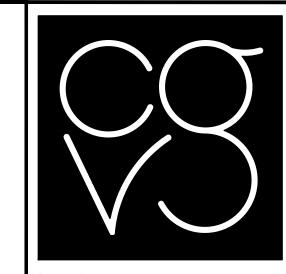
ELECTRICAL POWER PLAN

WI Group 06/24/2022 MV Engineering with Precision, Pace & Passion. PROJECT MGR: DRAWN BY: CS CS,WT,BR 2675 Pratum Avenue | Hoffman Estates, IL 60192 P: 224.293.6333 | F: 224.293.6444 wtengineering.com DRAWING FILE PATH: M:/2022/DRAWINGS/ A3.1 Exterior Elevations\_22053 icense No: 184.007570-0015 | Exp: 04.30.2023



**\*** KEYED NOTES

I. PROVIDE TYPE 'H' FIXTURE IN ATTIC FOR SPACE AROUND FC-I WITH LOCAL SWITCH ON CIRCUIT C:I.



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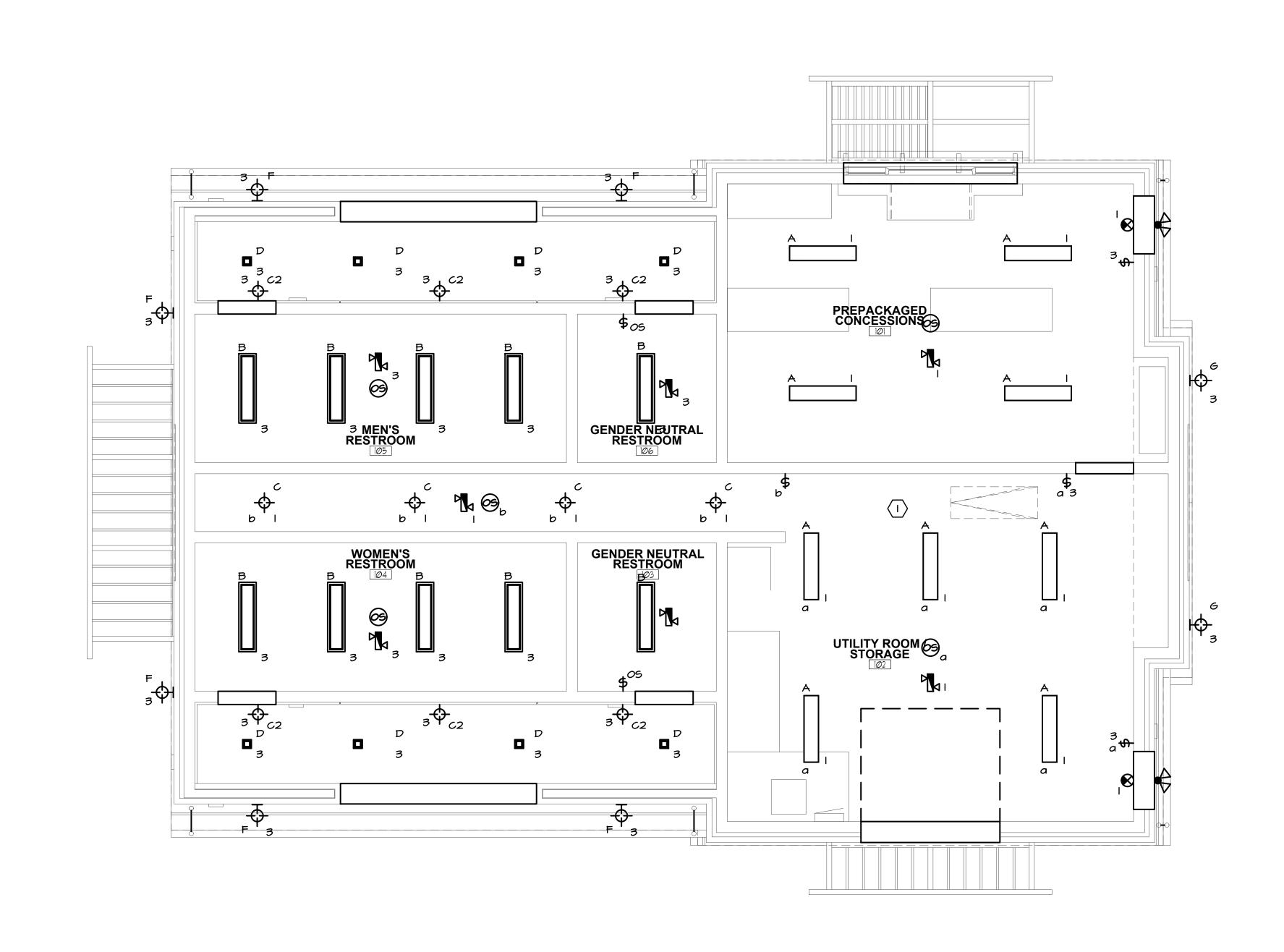
CENTRAL OAK BROOK,

BROOK

ELECTRICAL LIGHTING PLAN



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	L	IGHTING FIXT	JRE SCHEDUL	E		
TYPE	DESCRIPTION & FEATURES	LAMPS QUANTITY/TYPE	MOUNTING CLG./POLE-TYPE	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER	
Α	I' X 4' MRAPAROUND	45W LED	CEILING/SURFACE	120	LITHONIA #STL4-48L-EZI-LP830	
		3000K				
В	I' X 4' FLAT PANEL TROFFER	42W LED	CEILING/RECESSED	120	LITHONIA #GTL-4-48L-EZI-LP830	
		3000K				
С	DOWNLIGHT	IOM LED	CEILING/SURFACE	120	JUNO #JSF-5IN O7LM-30K-90CRI-	
		3000K			MVOLT	
C2	DORMER FLOOD	IOM LED	ATTIC	120	LIGHTOLIER #S5R-8-30K-7	
	PHOTOCELL ON/OFF	3000K				
D	SQUARE DOWNLIGHT - WET RATED	IOM LED	CEILING/RECESSED	120	JUNO #JSFSQ-5IN 07LM-30K-90CRI-	
	PHOTOCELL ON/OFF	3000K			MVOLT	
F	18" EXTERIOR SCONCE	25W LED	WALL/SURFACE	120	KUZCO MOONDEW EWTO18-GH	
	PHOTOCELL ON/OFF					
G	24" EXTERIOR SCONCE	29W LED	WALL/SURFACE	120	KUZCO MOONDEW EW7024-GH	
	PHOTOCELL ON/OFF					
Н	4' INDUSTRIAL STRIP	32W LED	SURFACE	120	LITHONIA #CLX-L48-4000LM-SEF-	
					FDL-MVOLT-GZI-30K-80CRI	
M	EMERGENCY LIGHT	LED	CEILING	120	TLS #RM6-18-REN2-2-W-G2	
EM	WITH BATTERY BACK-UP					
<b>②</b>	EMERGENCY EXIT SIGN	LED	CEILING	120	LITHONIA #LQM-S-W-3-R-120/277-ELN	
EX	MITH BATTERY BACK-UP					

- I. VERIFY TYPE OF CEILING OR WALL FOR ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING.
- 2. PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
- 3. MINIMUM LENS THICKNESS TO BE .125 INCHES, WHERE LENSES ARE USED.
- THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
- 5. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.
- 6. ALL COLOR TEMPERATURES SHALL BE 3500K, UNLESS OTHERWISE INDICATED.
- THIS CONTRACTOR SHALL PROVIDE POINT-BY-POINT LIGHTING CALCULATIONS FOR ANY SUBSTITUTED LIGHTING FIXTURES, POINT-BY-POINT CALCULATIONS SHALL BE PROVIDED WITH SHOP DRAWINGS AND BE CALCULATED BY THE MANUFACTURER OF THE LIGHTING FIXTURE FOR THE AREAS BEING SERVED. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW A MINIMUM OF SEVEN (7) DAYS PRIOR TO BID DATE IN ORDER TO BE CONSIDERED.
- 6. ALL BATTERY BACK-UP EMERGENCY LIGHT AND EXIT SIGN LIGHTING FIXTURES INDICATED SHALL HAVE BATTERY BACK-UP RATED FOR I-I/2 HOURS MINIMUM AND AS APPROVED BY LOCAL FIRE PREVENTION BUREAU.
- 9. EMERGENCY LIGHTING TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.

PA	NEL		C	OLTS208Y/120V		PHASE	3PH, 4W			
AN	/IPS		200	MAIN	200 A/3P MCB		<b>AIC RATING</b>	10,000		
LC	CAT	ION	STORAGE	ENCLOSU	JRE _	NEMA 1	MOUNTING	SURFACE		
CIRCUIT	POLE	TRIP	DESCRIPTION	VA	VA	DE	SCRIPTION	TRIP	POLE	CIRCUIT
1	1	20	INTERIOR LIGHTING	781	1000		ION RECEPT.	20	1	2
3	1	20	EXTERIOR LIGHTING	380	1000		ION RECEPT.	20	1	4
5	1	20	FACP	180	1000		ION RECEPT.	20	1	6
7	1	20	EXTERIOR RECEPT.	540	1000		ION RECEPT.	20	1	8
9	1	20	UTILITY RECEPT.	540	1000		ION RECEPT.	20	1	10
11	1	20	OVERHEAD DOOR	1000	1000		ION RECEPT.	20	1	12
13	1	20	BATHROOM RECEPT.	720	1000		ION RECEPT.	20	1	14
15	1	20	HAND DRYER	1500	360	PAVILLION		20	1	16
17	1	20	HAND DRYER	1500	114	_	I LIGHTING	20	1	18
19	1	20	HAND DRYER	1500	180		ATER QUADS.	20	1	20
21	1	20	HAND DRYER	1500	180		EATER QUADS.	20	1	22
23	1	20	PLUMBING SENSORS	1080	180		ATER QUADS.	20	1	24
25	1	20	EF-1	500	180		ATER QUADS.	20	1	26
27	2	15	FC-1	648	180		ATER QUADS.	20	1	28
29				648	180		ATER QUADS.	20	1	30
31					180		ATER QUADS.	20	1	32
33	2	40	HP-1	2496	180	AMPHITHE	EATER QUADS.	20	1	34
35			2#8,1#10G,3/4"C	2496	840	AMPHITHE	EATER LIGHTING	20	1	36
37	3	90	WH-1	8000	840		ATER LIGHTING	20	1	38
39			3#4,1#8G,1"C	8000	840		ATER LIGHTING	20	1	40
41				8000		SPARE		20	1	42
			TOTAL PHASE A	\ = <b>16,</b> 4	121 VA					
	TOTAL PHASE B =			•	<b>304</b> VA	TOTAL CO	NNECTED LOAD =	53.4	443 VA	、
	TOTAL PHASE C =			•	218 VA		TIMATED DEMAND =	•	159 AN	

# FIRE ALARM SYMBOLS

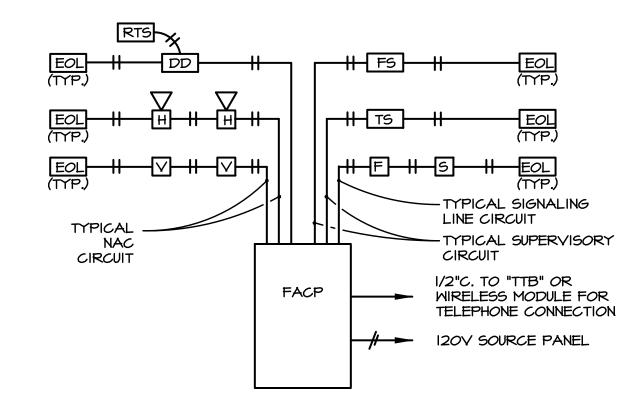
## ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 FACP HOUR TELEPHONE MONITORING FAAP FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48"AFF, MOUNT WITHIN 5 FT. OF DOOR) FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80"AFF) VISUAL STROBE SIGNAL (+80"AFF) SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT HEAT DETECTOR, 135° DEGREE RATE OF RISE HEAT DETECTOR, FIXED TEMPERATURE (190° DEGREES) DD DUCT TYPE SMOKE DETECTOR RTS REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH. VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR. R FAN SHUT DOWN RELAY KNOX BOX SPRINKLER ALARM BELL SOLENOID VALVE, BY DIVISION 15, WIRED BY E.C. SPRINKLER ALARM FLOW SWITCH, BY DIVISION 15, WIRED BY SPRINKLER ALARM TAMPER SWITCH, BY DIVISION 15, WIRED BY MONITOR MODULE FPC FIRE PUMP CONTROLLER NAC NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL

NOTE: FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE TYPE ZONED PER NFPA CODE, NON-CODED, CONTINUOUS SOUNDING, UL LISTED, WITH SERIES BATTERIES. MINIMUM WIRE TWO CONDUCTOR INSULATED #14 AWG. TWISTED PAIR, MINIMUM 1/2" CONDUIT WHERE REQUIRED.

DEVICE LAYOUT IS REPRESENTATIVE ONLY. PROVIDE ACTUAL QUANTITY OF DEVICES PER IFC AND PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS, E.C. SHALL VERIFY EXACT QUANTITY OF FIRE ALARM DEVICES PRIOR TO BIDDING.

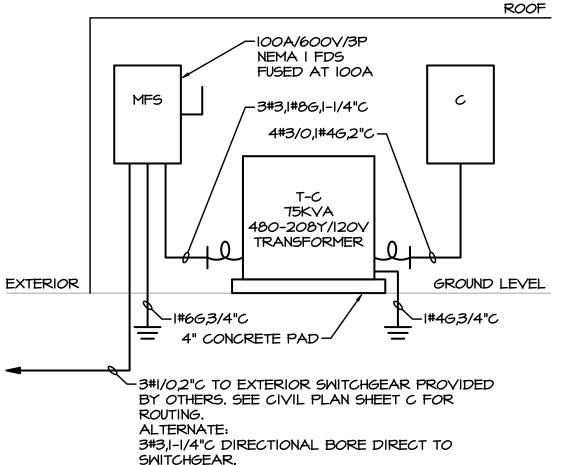
SUBMIT SHOP DRAWINGS TO ENGINEER AND PERMITTING AUTHORITY FOR REVIEW PRIOR TO INSTALLATION, INSTALL ALL DEVICES PER LOCAL CODE. OBTAIN AGENCY APPROVAL PRIOR TO INSTALLATION. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.

FIRE ALARM DEVICES WIRED TO FACP SHALL BE ADDRESSABLE (DUCT SMOKE DETECTORS, PULL STATIONS, HORNS, VISUALS, FLOW SWITCHES, TAMPER SWITCHES, AND BELLS). VERIFY AND COORDINATE IN FIELD. PROVIDE AND INSTALL CONDUIT AND WIRING FOR FIRE ALARM DEVICES AS REQUIRED BY CODE. FACP SHALL BE CONNECTED TO TELEPHONE TERMINAL CABINET OR WIRELESS MODULE.



# FIRE ALARM RISER DIAGRAM

NOT TO SCALE



**ELECTRICAL RISER DIAGRAM** NOT TO SCALE

# ELECTRICAL SYMBOLS

## LIGHT FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, NUMERAL INDICATES CIRCUIT ASSIGNMENT, AND SUBSCRIPT LETTER DENOTES SWITCH LEG. SHADING OF ANY FIXTURE, AS SHOWN, INDICATES FIXTURE SHALL BE CIRCUITED TO EMERGENCY / UNSWITCHED NIGHT LIGHT CIRCUIT. SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL INFORMATION. O OHEXIT SIGN UNIVERSAL MOUNT SHADED AREA INDICATES FACE, ARROWS AS REQUIRED. SEE "LIGHTING FIXTURE SCHEDULE." SELF CONTAINED EMERGENCY LIGHTING FIXTURE, WITH BATTERY $\nabla\nabla$ BACK-UP AND SOLID STATE CHARGER SINGLE POLE TOGGLE SWITCH, 48"AFF, SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT THREE WAY TOGGLE SWITCH, 48"AFF, 20AMP, 120 VOLT

FOUR WAY TOGGLE SWITCH, 48"AFF, 20AMP, 120 VOLT MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. 48"AFF UNLESS INDICATED OTHERWISE

FAN SPEED SWITCH, 48"AFF WALL MOUNTED VACANCY SENSOR SWITCH "MANUAL ON / AUTO

WALL MOUNTED OCCUPANCY SENSOR SWITCH "AUTO ON / AUTO OFF" 48"AFF LOW VOLTAGE MOMENTARY CONTACT SWITCH, 48"AFF

> LOW VOLTAGE MOMENTARY CONTACT DIMMER SWITCH, 48"AFF SWITCH FURNISHED WITH PILOT LIGHT.

KEY LOCK SWITCH, 48"AFF NON FUSED SAFETY SWITCH, RATING AS INDICATED

DIMMER SWITCH, 48"AFF

FUSED DISCONNECT SWITCH, SWITCH AND FUSE RATING AS INDICATED.

3-PHASE COMBINATION MAGNETIC STARTER WITH NEMA SIZE INDICATED BY E.C.  $\bigoplus$ 

DUPLEX RECEPTACLE, NEMA 5-20R, 15"A.F.F.

ISOLATED GROUND RECEPTACLE, NEMA 5-20R, I5"AFF

RECEPTACLE CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSPLASH

RECEPTACLE SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI". NEMA 5-20R DOUBLE DUPLEX (QUAD) RECEPTACLE

RECEPTACLE SHADING DENOTES SWITCHED OUTLET

DUPLEX RECEPTACLE WITH TWO (2) USB PORTS

SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION AS REQUIRED BY MANUFACTURERS EQUIPMENT. VERIFY CONDUIT, CONDUCTOR AND DISCONNECT/CIRCUIT BREAKER REQUIREMENTS PRIOR TO ROUGH-IN

LIGHTING AND/OR POWER PANEL

DISTRIBUTION PANEL

20A RATED

10/ MOTOR

E

PHOTO ELECTRIC CONTROL, ROOF MOUNTED, 120V OPERATION,

CONDUIT ROUTED CONCEALED IN CEILING OR WALL CONSTRUCTION. (CROSS LINES DENOTE NUMBER OF WIRES.)

CONDUIT ROUTED EXPOSED, PARALLEL OR PERPENDICULAR TO CONDUIT ROUTED CONCEALED IN CONCRETE FLOOR SLAB OR

UNDERGROUND. AUXILIARY JUNCTION BOX

FLEXIBLE CONDUIT CONNECTION

HOME RUN TO PANELBOARD

-CONDUIT -PHASE CONDUCTORS - NEUTRAL CONDUCTOR - EQUIPMENT GROUND -ISOLATED GROUND

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(VS)

TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.

DATA SYSTEM OUTLET WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.

DATA AND TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. TV OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE

TYH 09 CEILING MOUNTED OCCUPANCY SENSOR "AUTO ON / AUTO OFF"

CEILING MOUNTED VACANCY SENSOR "MANUAL ON / AUTO OFF"

63 CEILING MOUNTED DAYLIGHT SENSOR

LIGHTING POWER PACK

RESCUE ASSISTANCE INTERCOM STATION. SEE RESCUE ASSISTANCE DETAIL FOR ADDITIONAL INFORMATION

GENERATOR TRANSFER DEVICE POWER POLE

FLOOR BOX OR POKE-THRU DEVICE

# ELECTRICAL SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS. ALL MATERIALS, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER SYSTEM ACCEPTANCE.

RECEPTACLES AND SWITCHES SHALL BE THE TYPE AS SHOWN ON THE DRAWINGS AND SHALL BE SPECIFICATION GRADE WITH STAINLESS STEEL

MINIMUM BRANCH WIRE SIZE SHALL BE #12 AWG COPPER EXCEPT FOR CONTROL AND SIGNAL CIRCUITS. INSULATION (INTERIOR) SHALL BE SOLID TYPE THHN OR THWN SIZES #12 THROUGH #10. SIZES #8 THROUGH 750 MCM SHALL BE STRANDED TYPE THHN OR THWN AT THE CONTRACTOR'S OPTION.

MINIMUM OUTLET BOXES SHALL BE 4" SQUARE, UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS BUT SHALL CONTACT THE PROJECT ARCHITECT FOR ALL DIMENSIONAL DATA AND SHALL VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS WITH ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.

GROUNDING AND BONDING SHALL COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES.

ALL MATERIALS USED SHALL BE NEW AND BEAR THE U/L LABEL AND BE OF THE APPROPRIATE NEMA STANDARD.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICES ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (I) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

LAYOUT IS DIAGRAMMATIC AND WORK SHALL BE INSTALLED TO MEET FIELD CONDITIONS AND EQUIPMENT SELECTED. PROVIDE SHOP DRAWINGS AS REQUIRED AND VERIFY ALL EQUIPMENT.

PANELBOARDS SHALL BE DEAD FRONT WITH BOLT-ON TYPE CIRCUIT BREAKERS AND COPPER BUS. PROVIDE A TYPED LEGEND, UNDER A CLEAR PLEXIGLASS COVER FOR CIRCUIT IDENTIFICATION.

CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND REQUIRED

REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.

INSPECTION FEES.

IN FINISHED SPACES.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, AMPACITY AND OTHER

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, LIGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION. NO EXPOSED CONDUIT

THE ENTIRE INSTALLATION OF ALL COMPONENTS OF THIS PROJECT SHALL COMPLY WITH ALL FEDERAL ADA REQUIREMENTS, VERIFY EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES AND OUTLETS BEFORE INSTALLATION TO INSURE COMPLIANCE WITH FEDERAL REGULATIONS.

FOR CLARITY OF ALL PLANS, SOME CONDUIT AND WIRE HAS NOT BEEN SHOWN. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND OPERATING SYSTEMS INCLUDING ALL CONDUIT AND

THIS CONTRACTOR SHALL MAINTAIN THE FIRE RATED INTEGRITY OF ALL FLOORS, CEILINGS AND WALLS. ALL PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS SHALL BE EFFECTIVELY SEALED USING APPROVED MATERIALS AND METHODS. ALL LIGHTING FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILINGS USING APPROVED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.

THIS CONTRACTOR SHALL INSPECT THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS TO DETERMINE HIS ENTIRE SCOPE OF WORK. THIS CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK FOR THIS PROJECT PRIOR TO SUBMITTING HIS BID.

THE ELECTRICAL INSTALLATION IS TO BE IN STRICT ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITY COMPANY REQUIREMENTS OR

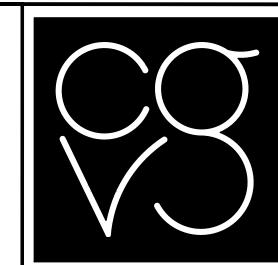
ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION. ALL SITE UNDERGROUND BRANCH CIRCUIT WIRING IN CONDUIT SHALL BE TYPE THWN OR XHHW.

ALL UNDERFLOOR OR EXPOSED TO THE WEATHER CONDUIT SHALL BE HEAVY-WALL, GALVANIZED RIGID STEEL 'RGS', INTERMEDIATE METAL CONDUIT 'IMC', OR RIGID PVC SCHEDULE #40 CONDUIT, WHERE ALLOWED, MINIMUM SIZE 3/4".

PROVIDE BARRIERS TO SEPARATE DIFFERENT PHASES IN 277 VOLT GANGED SWITCH BOXES.

ALL WIRE SHALL BE INSTALLED IN THINWALL, ELECTRICAL METALLIC TUBING (EMT) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" FOR BRANCH CIRCUIT WIRING, DROPS TO SWITCHES AND BRANCH DEVICES MAY BE I/2" UNLESS OTHERWISE NOTED ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE PER ALL APPLICABLE CODE REQUIREMENTS. ALL CONDUITS SHALL BE CONCEALED WHERE POSSIBLE. WHERE EXPOSED, THIS CONTRACTOR SHALL RUN CONDUITS IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION. CONDUITS INSTALLED IN AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE RIGID GALVANIZED, OR INTERMEDIATE METAL TYPE.

THIS CONTRACTOR SHALL PROVIDE ALL TEMPORARY WIRING FOR ALL TRADES FOR CONSTRUCTION EQUIPMENT (IE: HAND TOOLS, WELDERS, PIPE BENDERS, ETC.) AND CONSTRUCTION LIGHTING PER THE LATEST OSHA STANDARDS. INCLUDE ALL COSTS IN THE BASE BID. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE AND FEDERAL SAFETY LAWS (OSHA).



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NO.	DATE	DESCRIPTION				
	01/06/2023	ISSUE FOR BID				

PROJECT:

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**ELECTRICAL** DETAILS

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