COVENANT UNITED PRESBYTERIAN CHURCH

400 LANCASTER AVENUE, MALVERN (FRAZER), PENNSYLVANIA 19355



	DRAWING INDEX
COVER	CS COVER SHEET
SITE	DSP DEMOLITION SITE PLAN SP ARCHITECTURAL SITE PLAN
CIVIL	1 OF 8 SITE LAYOUT PLAN 2 OF 8 EXISTING CONDITIONS PLAN 3 OF 8 DEMOLITION PLAN 4 OF 8 GRADING & UTILITY PLAN 5 OF 8 EROSION & SEDIMENTATION, CONTROL PLAN 6-8 OF 8 DETAIL PLAN
DEMOLITION	D-100 LOWER LEVEL DEMOLITION PLAN D-101 MAIN LEVEL DEMOLITION PLAN D-102 UPPER LEVEL DEMOLITION PLAN D-110 FRONT AND REAR ELEVATIONS DEMOLITION PLAN D-111 SIDE ELEVATIONS DEMOLITION PLAN
ARCHITECTURALS	LS LIFE SAFETY PLANS A-100 LOWER LEVEL FLOOR PLAN AND REFLECTED CEILING PLAN A-101 MAIN LEVEL FLOOR PLAN AND REFLECTED CEILING PLAN A-102 UPPER LEVEL FLOOR PLAN AND REFLECTED CEILING PLAN A-103 ROOF PLAN A-104 INTERIOR ELEVATIONS A-105 SCHEDULES AND DETAILS A-106 RESTROOM DETAILS A-107 RESTROOM DETAILS A-108 DETAILS A-110 FRONT AND REAR ELEVATIONS A-111 SIDE ELEVATIONS A-120 BUILDING SECTIONS A-121 BUILDING SECTION A-140 DETAILS
KITCHEN	FS-1.0 KITCHEN EQUIPMENT PLAN AND SCHEDULE
STRUCTURAL	S-000STRUCTURAL GENERAL NOTES S-100 FOUNDATION PLAN AND DETAIL S-101 MAIN LEVEL FRAMING PLAN S-102 UPPER LEVEL FRAMING PLAN S-103 ROOF FRAMING PLAN S-120 STRUCTURAL SECTIONS
MECHANICAL/ ELECTRICAL/ PLUMBING	MIOO MECHANICAL, PLUMBING NOTES AND SCHEDULES MIOI LOWER LEVEL AND MAIN LEVEL MECHANICAL PLAN MIO2 UPPER LEVEL MECHANICAL PLAN EIOO RISER DIAGRAMS EIOI LOWER LEVEL POWER AND LIGHTING PLAN EIO2 MAIN LEVEL POWER AND LIGHTING PLAN EIO3 UPPER LEVEL POWER AND LIGHTING PLAN PIOO RISER DIAGRAMS PIOI LOWER LEVEL AND MAIN LEVEL PLUMBING PLAN PIO2 UPPER LEVEL PLUMBING PLAN
	BUILDING CODE DATA
	ELECTRICAL/ PLUMBING STRUCTURAL KITCHEN ARCHITECTURALS DEMOLITION CIVIL SITE COVE

CIVIL ENGINEER

Edward B. Walsh & Associates, Inc.

LIONVILLE PROFESSIONAL CENTER

125 Dowlin Forge Rd.
Exton, Pennsylvania 19341
Phone: 610-903-0060
Fax: 610-903-0080



roy larry schlein & associates consulting engineers & planners

1903 KINGS HIGHWAY, 2ND FLOOR B
PO BOX 722, SWEDESBORO, NJ 08085
PHONE: (856) 241-1700 FAX: (856) 241-0700

STRUCTURAL ENGINEERING

THOMAS C. FARANDA, P.E. CONSULTING ENGINEER

623 RIDGE ROAD SPRING CITY, PENNSYLVANIA 19475 PHONE: (484) 631-6247 OCCUPANCY: GROUP A-3± ASSEMBLY INTENDED FOR WORSHIP

2009 INTERNATIONAL BUILDING CODE

2009 INTERNATIONAL FIRE CODE 2005 NATIONAL ELECTRICAL CODE

2003 ANSI AIIT.I STANDARD

2009 INTERNATIONAL MECHANICAL CODE 2009 INTERNATIONAL PLUMBING CODE 2009 INTERNATIONAL FUEL GAS CODE

CONSTRUCTION

CLASSIFICATION: TYPE III - B± EXTERIOR WALLS ARE OF NON-COMBUSTIBLE MATERIALS

JAMES S. CARR AIA & ASSOCIATES
ARCHITECTS AND LAND PLANNERS
11 DALE LANE, MALVERN, PENNSYLVANIA 19

SEAL AND THE STANKER OF THE STANKER

PROJECT ARCH. JSC
PROJECT MGR. OGC
DRAWN BY. OAG
PROJECT NO. 15-001
DESCRIPTION DATE
1 BIDDING SET 2015-03-10

N CHURCH

PROJECT AR

PROJECT AR

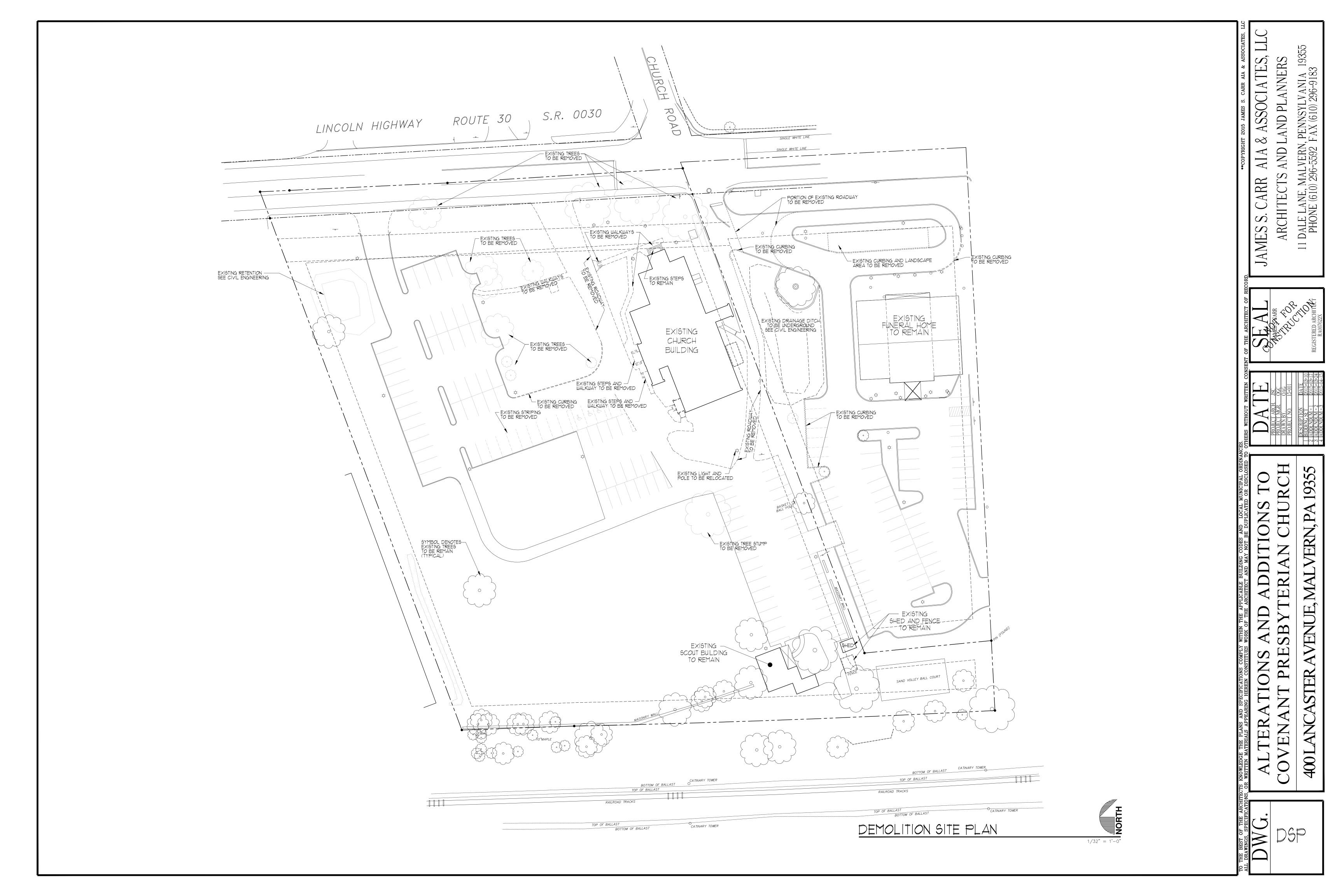
PROJECT NO

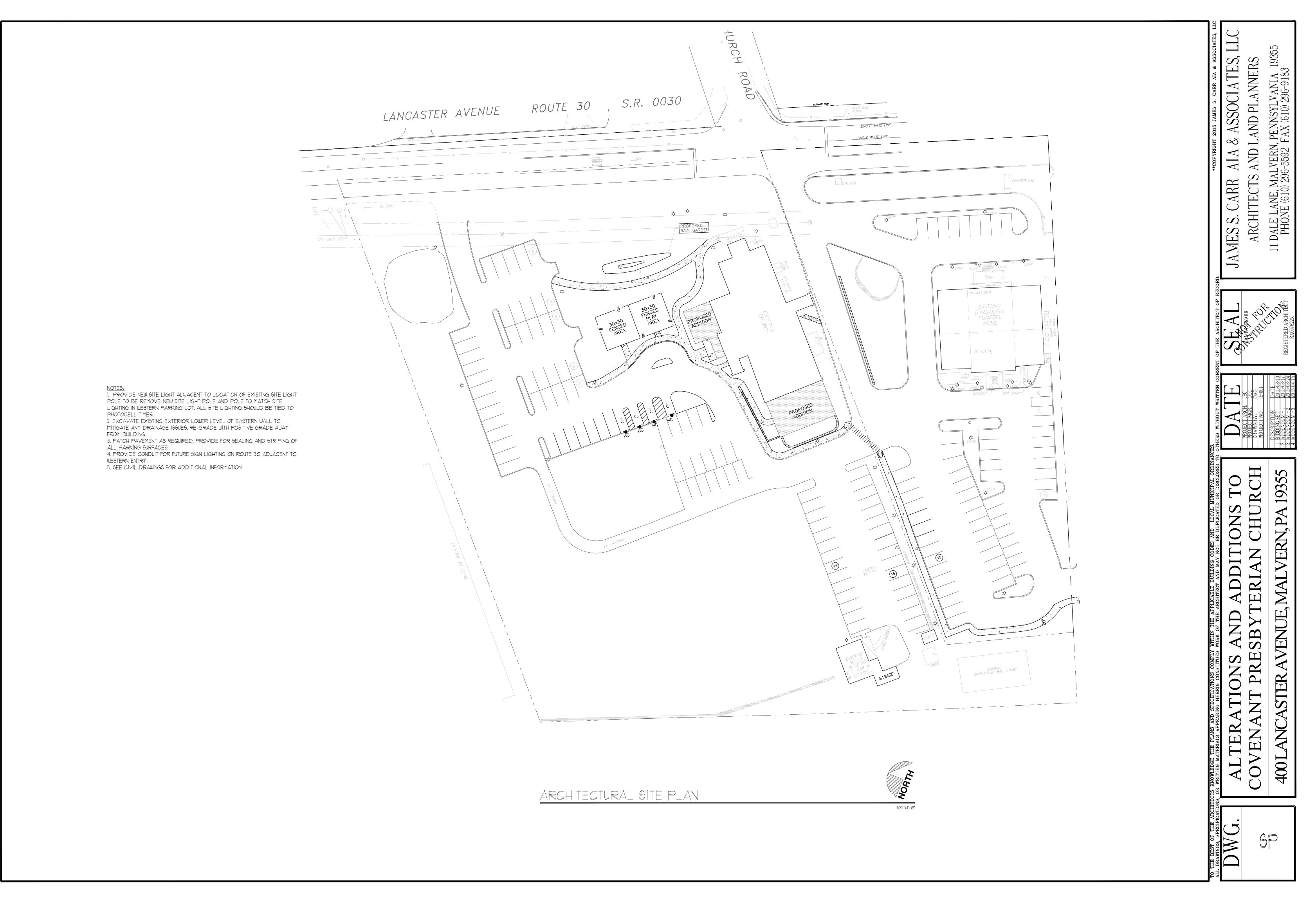
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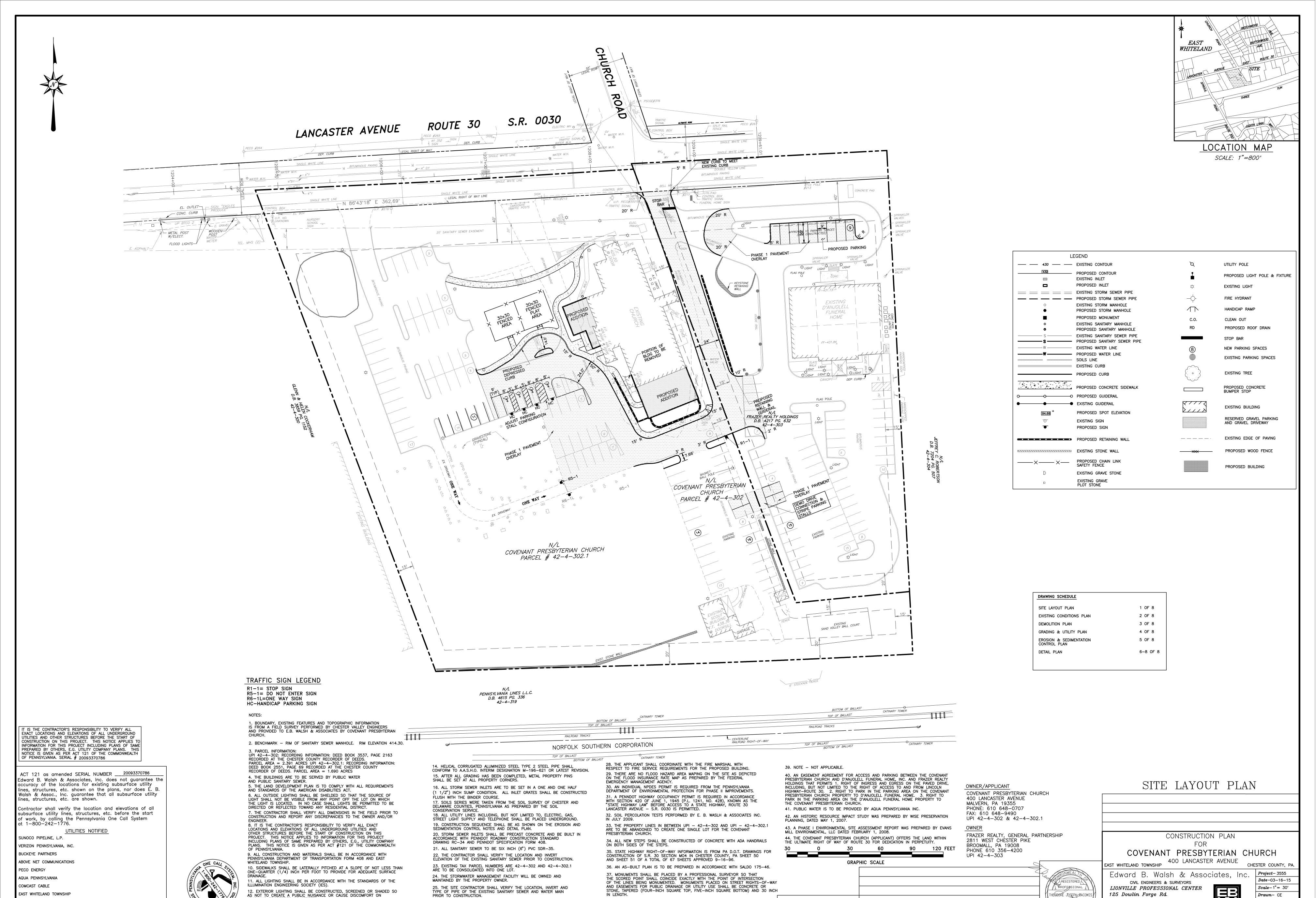
A ADDENDUM:
3 ADDENDUM:
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NT PRESBYTERIAN CHU ASTER AVENUE MALVERN. PA

CS







38. CLEAR—SIGHT TRIANGLES SHALL BE PROVIDED AT ALL STREET INTERSECTIONS, WITHIN SUCH TRIANGLES, NO VISION—OBSTRUCTING OBJECT SHALL BE PERMITTED.

POINT OF INTERSECTION OF THE CENTER LINES.

SUCH TRIANGLES SHALL BE ESTABLISHED FROM A DISTANCE OF 100 FEET FROM THE

Exton, Pennsylvania 19341

Phone: 610-903-0060

Fax: 610-903-0080

Plotted: 3/24/2015 | File:

NO. 031545-E

Checked- DHD

Sheet- 1 OF 8

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UPI NO. 42-4-302 & 42-4-302.1

ADJOINING PROPERTIES OR STREETS.

EAST WHITELAND TOWNSHIP MUNICIPAL AUTHORITY.

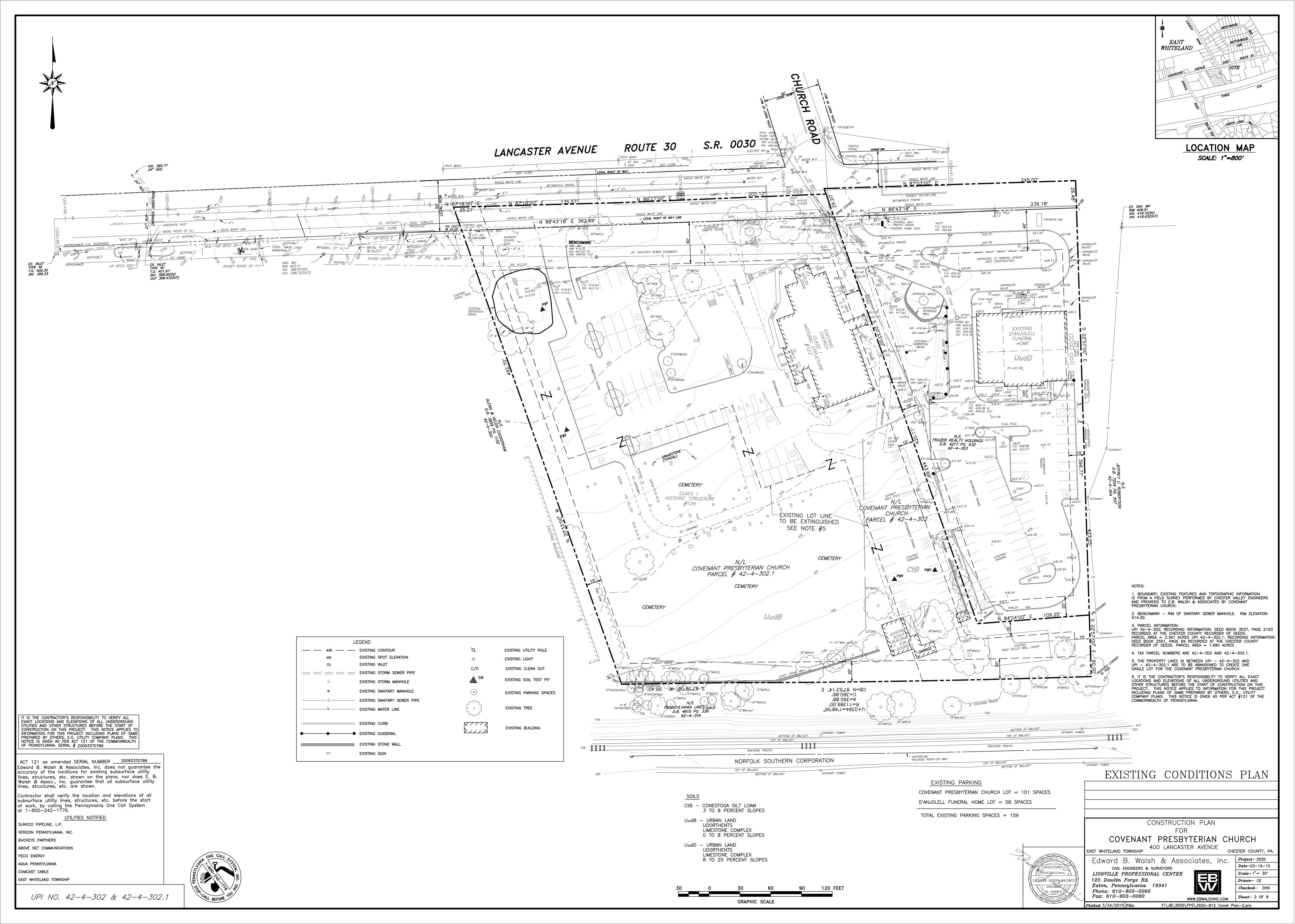
13. ALL CONSTRUCTION METHODS EMPLOYED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD CONSTRUCTION AND

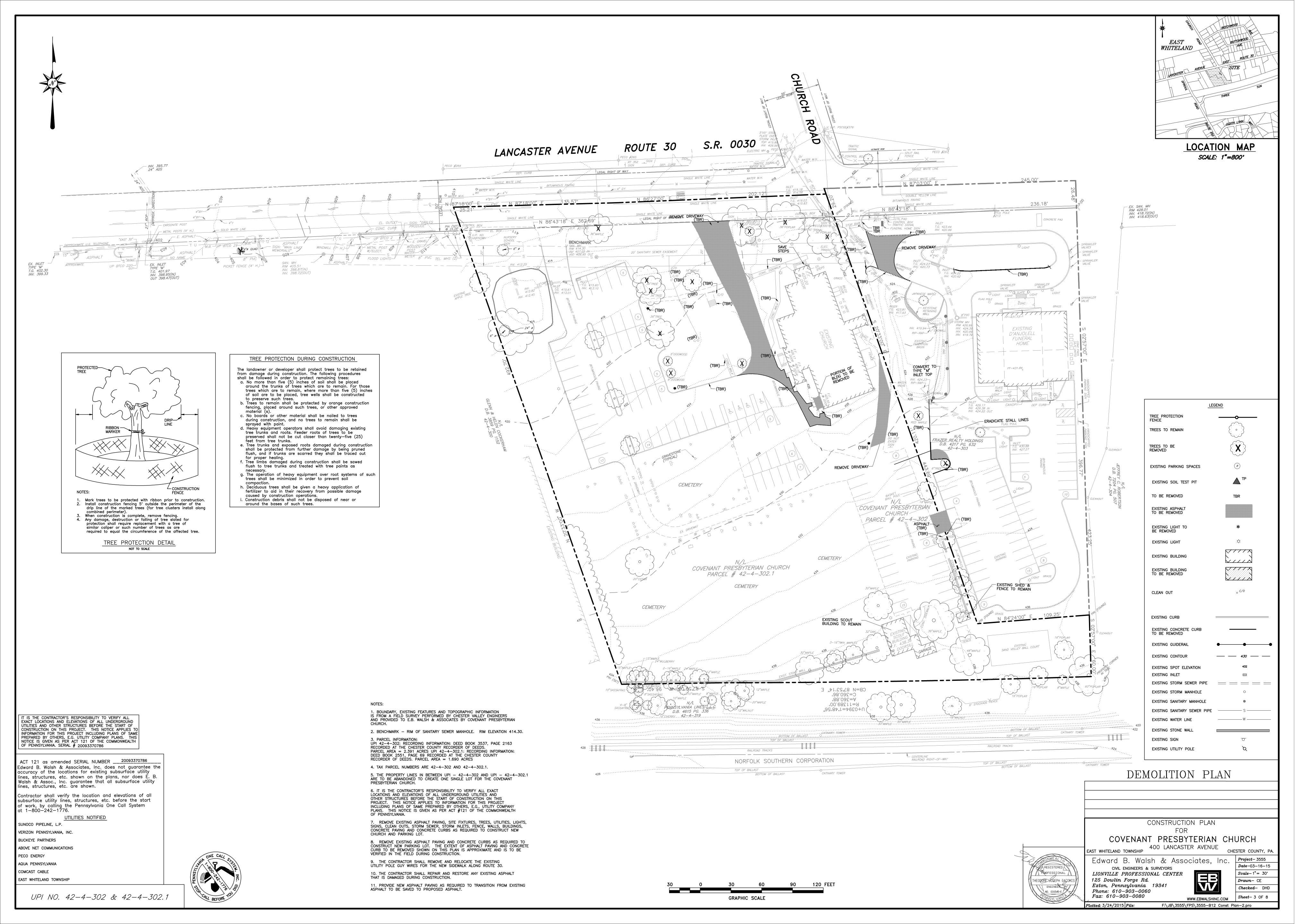
MATERIAL SPECIFICATIONS FOR SANITARY SEWER EXTENSIONS FOR THE

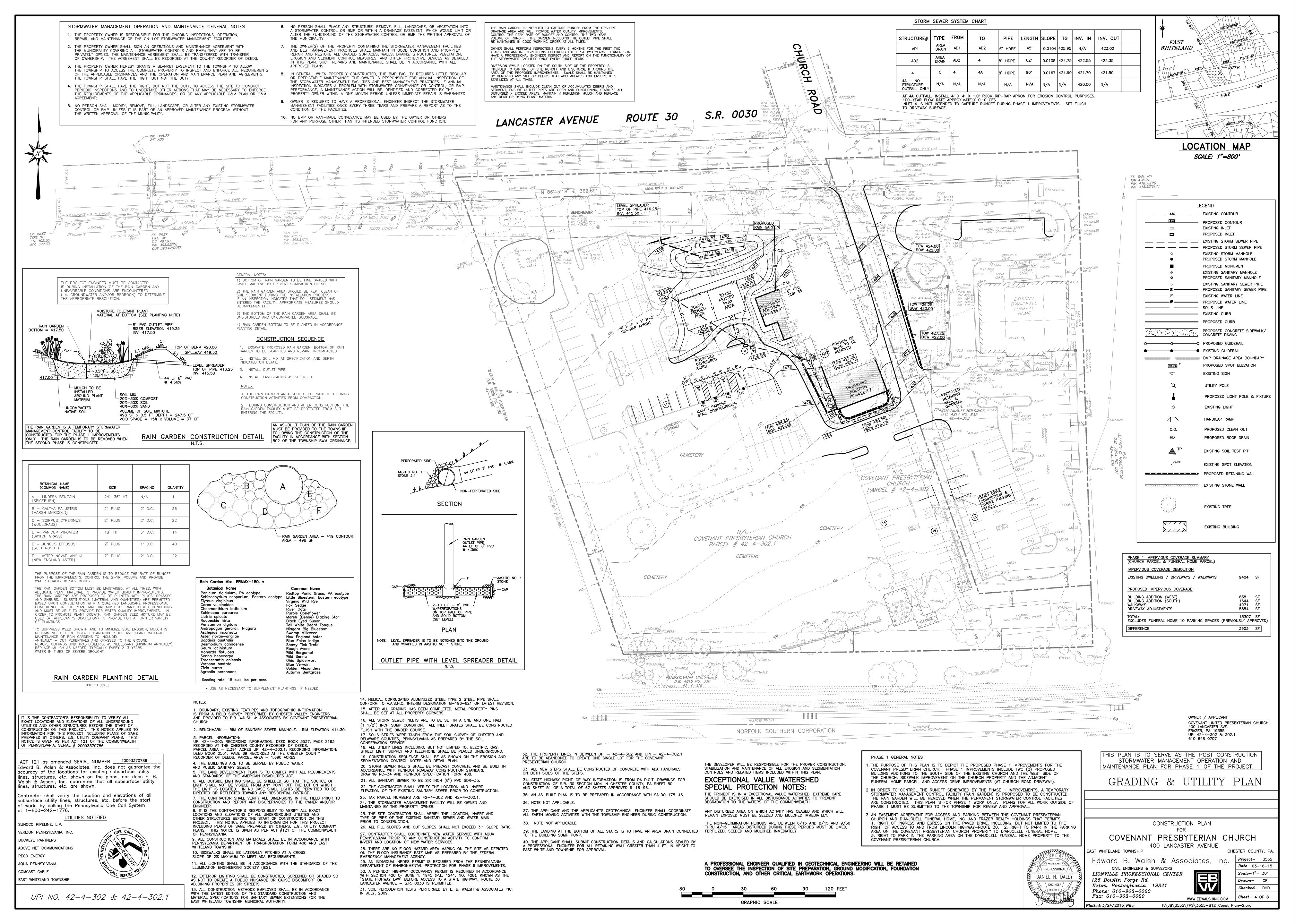
26. ALL FILL SLOPES AND CUT SLOPES SHALL NOT EXCEED 2:1 SLOPE RATIO.

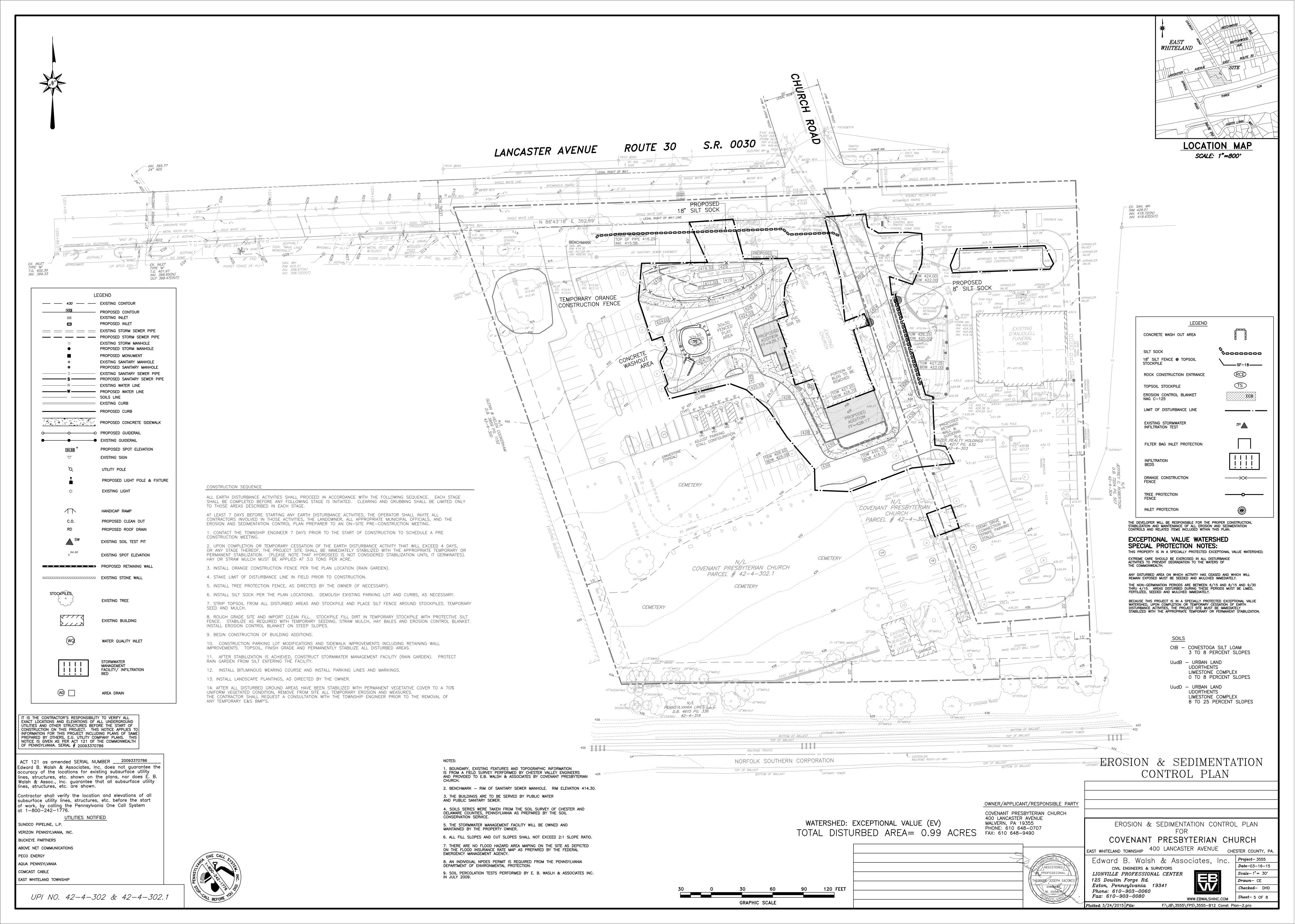
27. CONTRACTOR SHALL COORDINATE NEW WATER SERVICE WITH AQUA PENNSYLVANIA PRIOR TO ANY CONSTRUCTION ACTIVITY TO CONFIRM

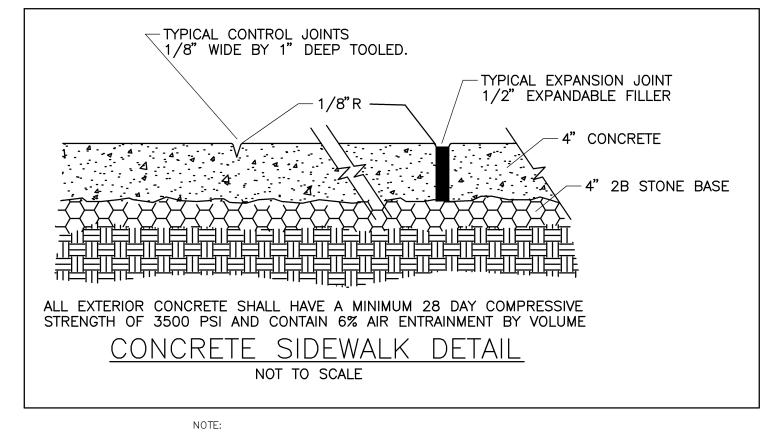
INVERT AND LOCATION OF NEW WATER SERVICES.



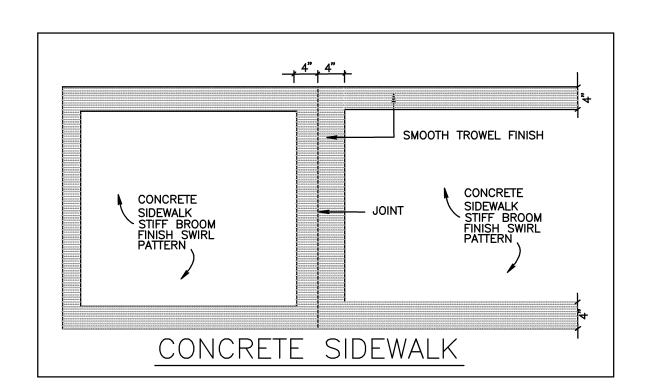


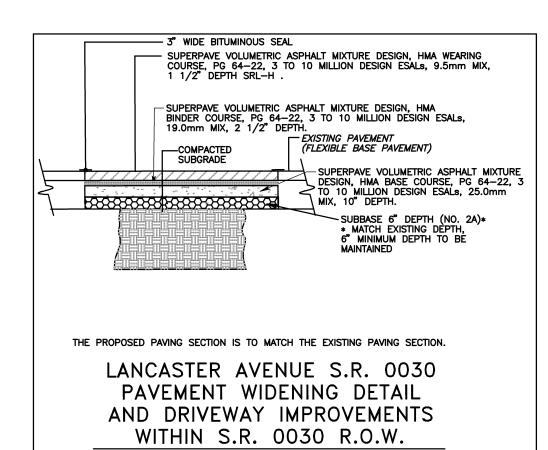


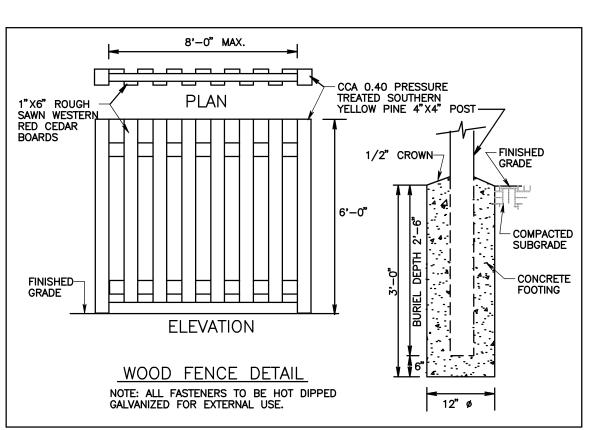


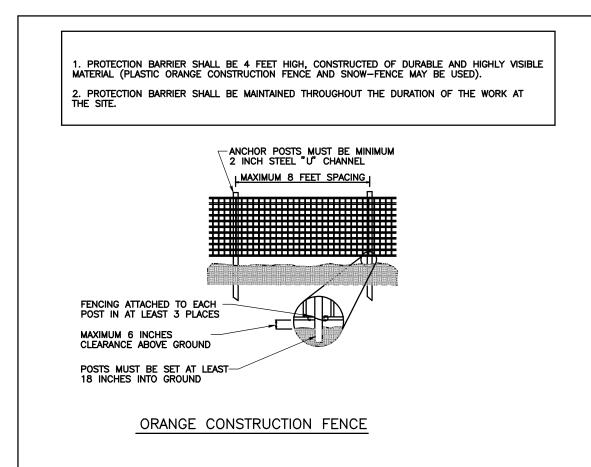


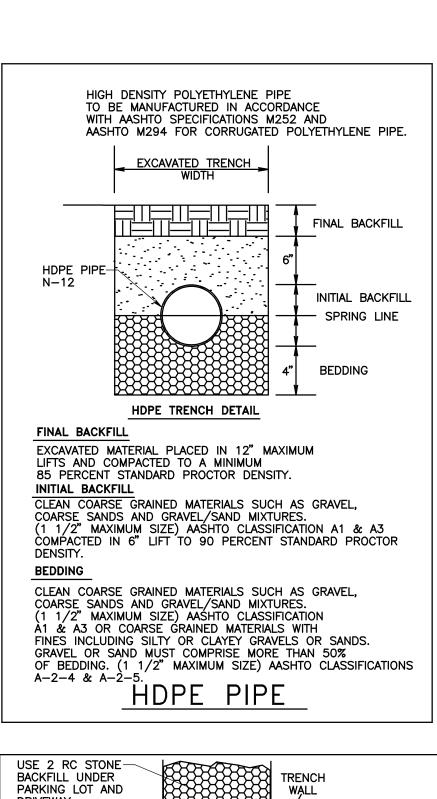
- CONCRETE JOINTS: A. EXPANSION JOINTS CONSISTING OF 1/4" PREMOLDED MATERIAL SHALL BE PROVIDED AT ALL LOCATIONS WHERE SIDEWALKS ABUT A CURB OR OTHER FIXED OBJECTS SUCH AS UTILITY POLES, STEPS OR WALL.
- B. CURB SECTIONS SHALL BE TEN FEET (10') LONG WITH 3/4" FULL DEPTH BITUMINOUS FELT EXPANSION JOINTS AT TEN FOOT (30') INTERVALS.
- C. ALL SIDEWALKS AND APRONS SHALL HAVE TOOLED CONTROL JOINTS INSTALLED AT FOUR FOOT (4') INTERVALS, 1" DEEP WITH ROUNDED
- D. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED IN THE SIDEWALKS AT TWENTY FOOT (20') INTERVALS.









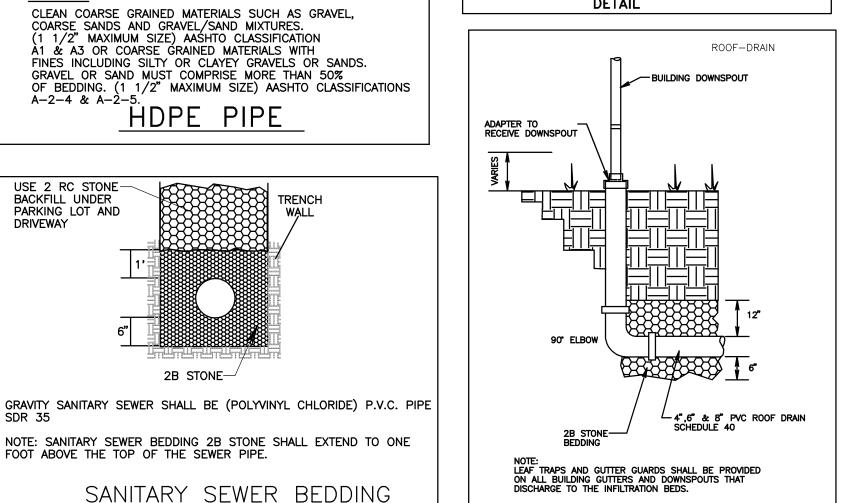


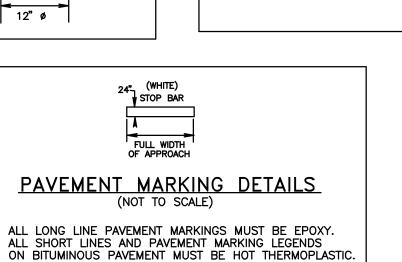
NOTE: SANITARY SEWER BEDDING 2B STONE SHALL EXTEND TO ONE FOOT ABOVE THE TOP OF THE SEWER PIPE.

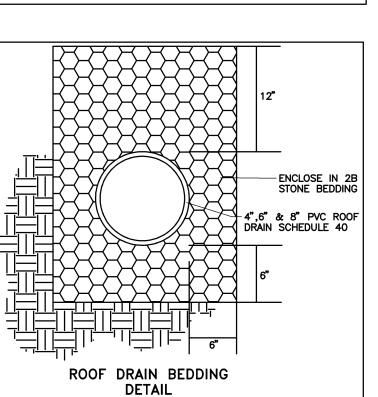
SANITARY SEWER BEDDING

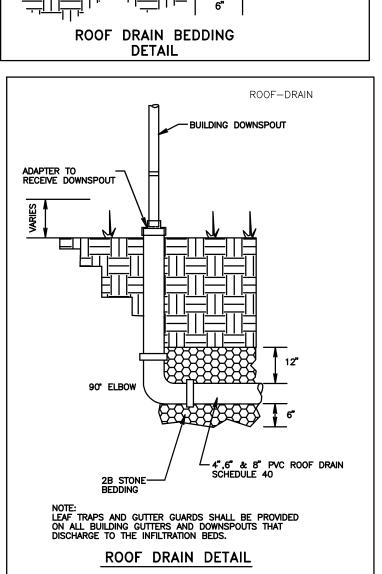
NOT TO SCALE

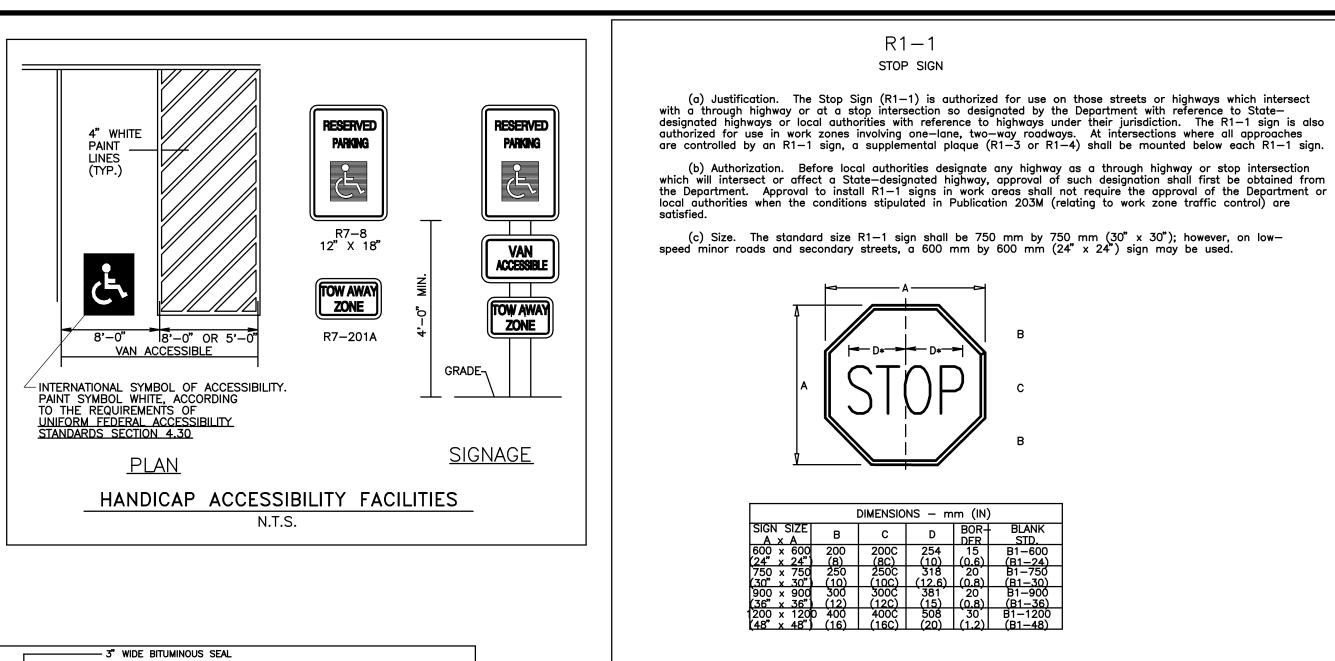
DRIVEWAY

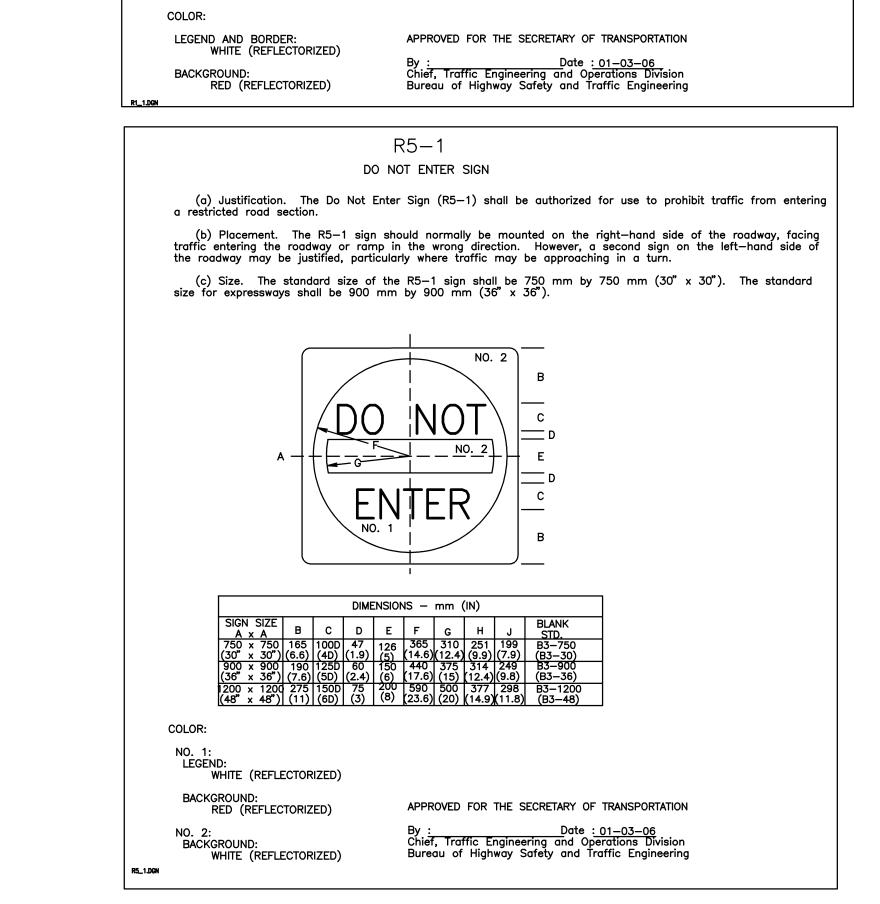












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STOP SIGN

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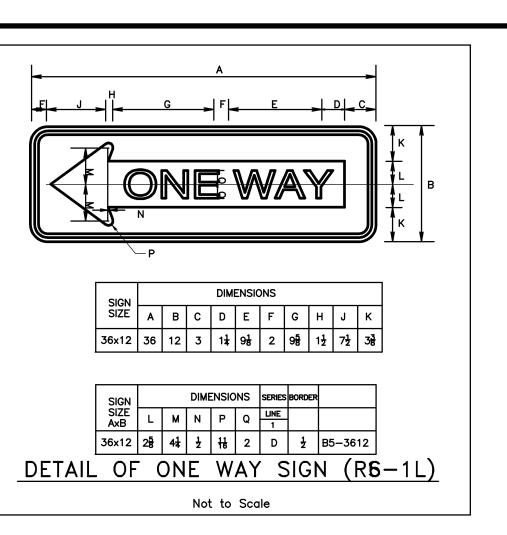
RECOMMENDED CONSTRUCTION PRACTICES FOR MINIMIZING SINKHOLE DEVELOPMENT IN CARBONATE AREAS

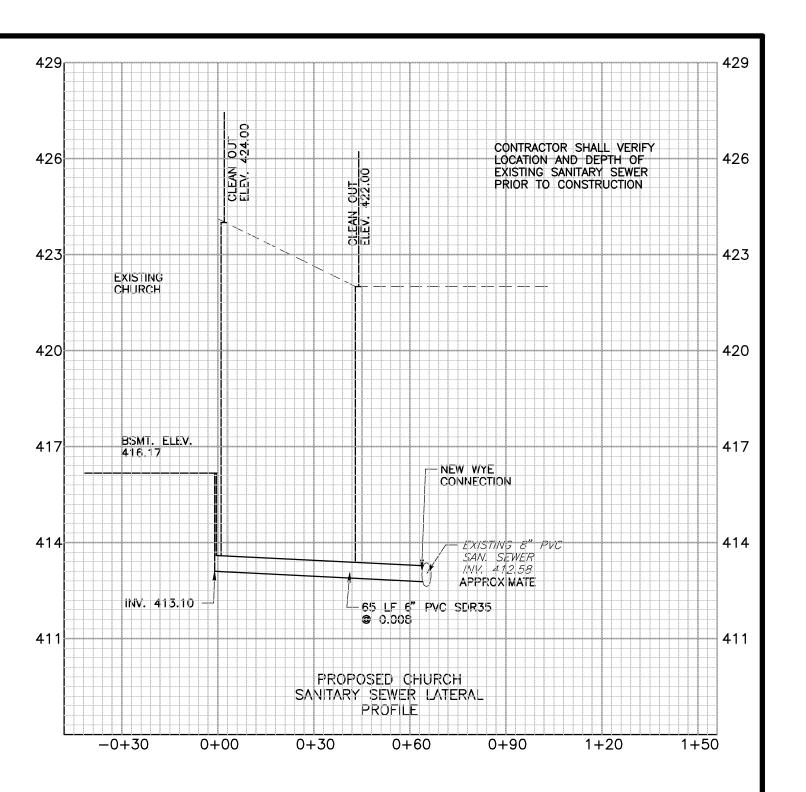
- AREAS UNDERLAIN BY CARBONATE ROCK FORMALITIES ARE SUBJECT TO SOLUTION ACTIVITY AND THE DEVELOPMENT OF SINKHOLES. ANY DISTURBANCE OF NATURAL CONDITIONS AT A GIVEN SITE TENDS TO INCREASE THE POTENTIAL FOR SINKHOLE DEVELOPMENT. BY INCORPORATING MEASURES DURING BOTH THE DESIGN AND CONSTRUCTION PHASES OF A PROJECT, THIS POTENTIAL MAY BE REDUCED. ADDITIONALLY, IT IS RECOMMENDED THAT THE CONSTRUCTION SCHEDULE BE SUCH THAT SITE EXPOSURE IN THE SINKHOLE POTENTIAL AREAS IS LIMITED IN DURATION. THE FOLLOWING LIST INCLUDES EXAMPLE PROCEDURES WHICH HAVE BEEN SHOWN TO REDUCE THE FREQUENCY AND SEVERITY OF SINKHOLES RESULTING FROM CONSTRUCTION ACTIVITY.
- 1. UTMOST CARE MUST BE TAKEN TO PREVENT COLLECTION AND DRAINAGE OF SURFACE WATER INTO EXCAVATED OR LOW-LYING AREAS OF THE SITE DURING THE EXCAVATION AND CONSTRUCTION OF ROADWAYS, RAMPS, OR STRUCTURES. THIS MAY BE DONE BY CONSTRUCTING EARTH BERMS, DIKES OR DIVERSION DITCHES AROUND OPEN EXCAVATIONS OR OTHERWISE PREVENTING THE COLLECTION AND PONDING OF WATER IN LOW-LYING AREAS. TYPICALLY, EXCAVATIONS SHOULD NOT BE MADE DURING PREDICTED PERIODS OF PRECIPITATION. EXCAVATIONS SHOULD BE FILLED AS SOON AS PRACTICAL, ESPECIALLY OVER WEEKENDS OR PERIODS OF INACTIVITY.
- 2. THE BASE OF ALL EXCAVATIONS IN CARBONATE AREAS SHOULD BE INSPECTED FOR SOFT OR UNUSUALLY MOIST CONDITIONS. A VISUAL INSPECTION OF THE EXCAVATED SURFACE, AS WELL AS PROBES OF THE SOIL AT REGULAR INTERVALS IS RECOMMENDED. ANY SOFT/LOOSE OR UNUSUALLY MOIST SOIL SHOULD BE FURTHER EXCAVATED AND THE EXTENT OF THE UNSTABLE CONDITIONS BE DETERMINED. REMEDIAL MEASURES SHOULD THEN BE UNDERTAKEN AS NECESSARY. SWALES, DRAINAGE DITCHES AND/OR BASINS ARE PARTICULARLY VULNERABLE TO SINKHOLE DEVELOPMENT DURING PERIODS OF HEAVY RAINFALL. THE SAME IS TRUE OF OUTLET LOCATIONS FOR DRAINAGE PIPES. CONSIDERATION SHOULD BE GIVEN TO LINING THESE AREAS WITH IMPERMEABLE LINERS TO PREVENT INFILTRATION OF WATER.
- 3. EXCAVATION SHOULD BE KEPT TO A PRACTICAL MINIMUM IN AREAS OF KNOWN OR SUSPECTED SINKHOLE OR SOLUTION ACTIVITY. IN GENERAL, THE CLOSER EXCAVATIONS GET TO THE ROCK SURFACE, THE GREATER THE POTENTIAL IS FOR SINKHOLE DEVELOPMENT.
- 4. SINKHOLE REPAIR IS DEPENDENT ON THE LOCATION AND TYPE OF SINKHOLE. THE PROPER STABILIZATION AND REPAIR OF SINKHOLES OR OTHER AREAS EXHIBITING SOLUTION ACTIVITY IS CRITICAL AND SHOULD BE PERFORMED UNDER THE DIRECTION OF EXPERIENCED GEOTECHNICAL ENGINEERS, SUCH AT EARTH ENGINEERING, INC.
- 5. BLASTING TO EXCAVATE AND REMOVE ROCK SHOULD BE PERFORMED WITH EXTREME CAUTION AND ONLY WHEN ABSOLUTELY NECESSARY. WHERE BLASTING IS PERFORMED, IT SHOULD BE DONE TO MINIMIZE THE DISTURBANCE TO THE UNDERLYING ROCK AND/OR SOILS.
- 6. WATERTIGHT SEALS SHOULD BE PROVIDED AT ALL WATER BEARING UTILITY LINE CONNECTIONS.
- 7. SITE GRADES SHOULD PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AREAS.
- 8. ALL ROOF DRAINS SHOULD BE WATERTIGHT AND SHOULD CONNECT TO THE ON-SITE STORMWATER MANAGEMENT SYSTEMS.
- 9. JOINTS BETWEEN ASPHALT PAVING AND CONCRETE CURBING SHOULD BE SEALED TO REDUCE WATER INFILTRATION IN THESE AREAS.
- 10. A PROFESSIONAL ENGINEER QUALIFIED IN GEOTECHNICAL ENGINEERING WILL BE RETAINED TO OVERSEE THE INSPECTION OF SITE PREPARATION, GROUND MODIFICATION, FOUNDATION CONSTRUCTION, AND OTHER CRITICAL EARTHWORK OPERATIONS.

RAIN GARDEN CONSTRUCTION SEQUENCE

SPECIFIED ON PLANS.

- 1. INSTALL TEMPORARY SEDIMENT CONTROL BMPS AS SHOWN ON THE PLANS.
- 2. COMPLETE SITE GRADING. CONSTRUCT CURB CUTS BUT PROVIDE PROTECTION SO THAT DRAINAGE IS PROHIBITED FROM ENTERING CONSTRUCTION AREA.
- 3. STABILIZE GRADING WITHIN THE LIMIT OF DISTURBANCE EXCEPT WITHIN THE RAIN GARDEN AREA.
- 4. EXCAVATE RAIN GARDEN TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT IN-SITU SOILS.
- 5. BACKFILL RAIN GARDEN WITH AMENDED SOIL AS SHOWN ON PLANS. OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT.
- 6. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION. 7. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS. LEAVING SPACE FOR UPPER LAYER OF COMPOST, MULCH OR TOPSOIL AS
- 8. PLANT VEGETATION ACCORDING TO PLANTING PLAN.
- 9. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCE





DETAIL SHEET

CONSTRUCTION PLAN COVENANT PRESBYTERIAN CHURCH EAST WHITELAND TOWNSHIP 400 LANCASTER AVENUE CHESTER COUNTY, P

Edward B. Walsh & Associates, Inc. CIVIL ENGINEERS & SURVEYORS LIONVILLE PROFESSIONAL CENTER 125 Dowlin Forge Rd. Exton, Pennsylvania 19341 Phone: 610-903-0060

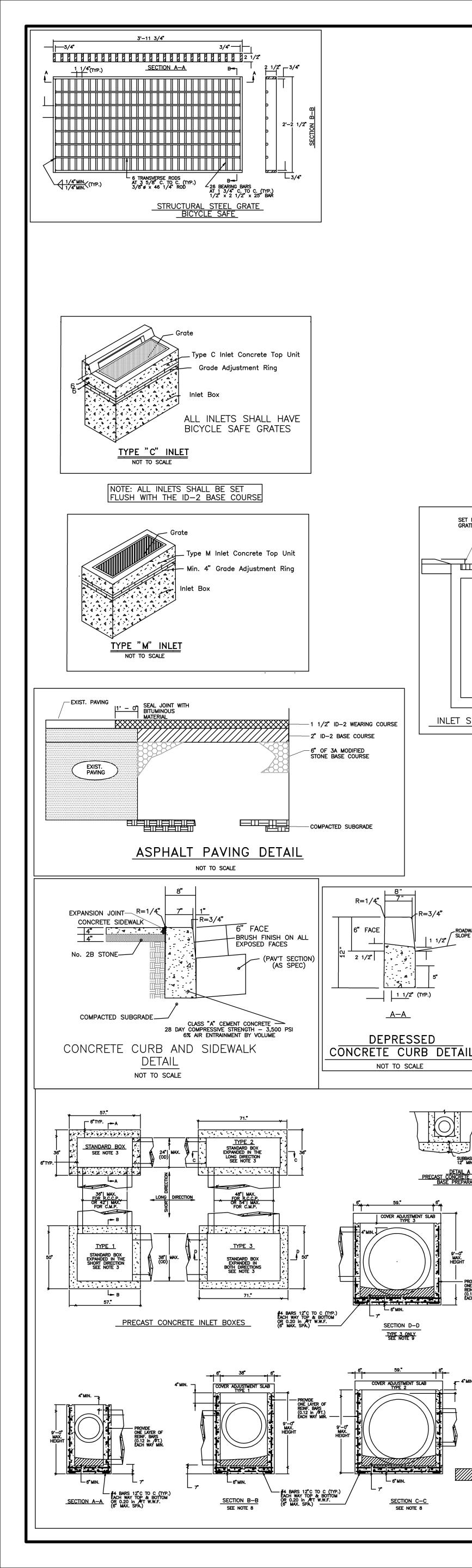
Fax: 610-903-0080

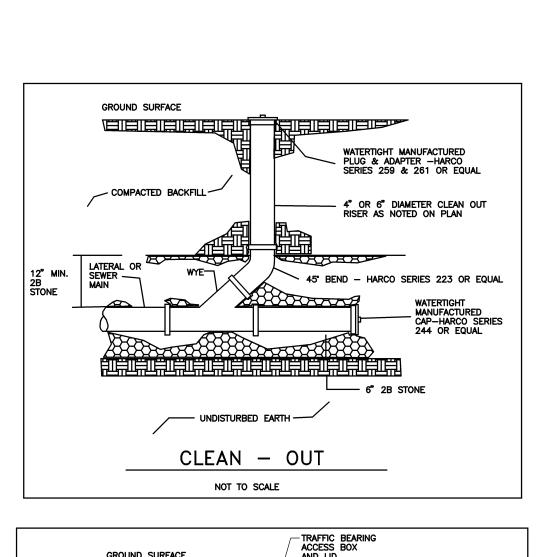
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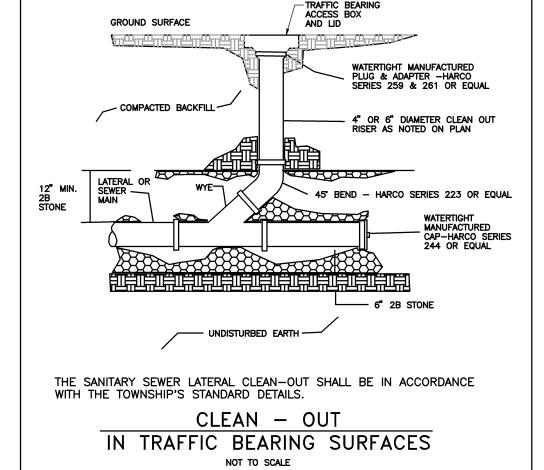
*Date-*03-16-15 Scale-1"=30"*Drawn*− D.B.

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. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 630 FOR PLAIN CONCRETE CURB AND DEPRESSED CURB, SECTION 640 FOR PLAIN CONCRETE CURB AND FOR PLAIN CONCRETE CURB GUTTER.

2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.

3. PLACE 3/4 — INCH PREMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO CROSS SECTIONAL AREA OF CURB.

SEE RC-50 FOR PLAIN CONCRETE CURB SLOPED TOP TREATMENT AT END OF STRUCTURES.

DETAIL A

CONTRACTION JOINT

1/4" RADIUS —

CLASS A

CONCRETE -

— 2" DEEP

3/16" WIDE

RADIUS

· 4 4 · 4

CONTRACTION JOINT

PLAIN CONCRETE CURB

RC-64

SEE DETAIL A

TYPICAL

CROSS SECTION

. ALL EXTERIOR CONCRETE SHALL HAVE

A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI AND CONTAIN

6% AIR ENTRAINMENT BY VOLUME.

— 1 1/2" WEARING COURSE

CONSTRUCT INLET BOXES IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 714.

PROVIDE STANDARD INLET BOXES AND COVER ADJUSTMENT SLABS WITH A 24" x 45."
 OPENING TO ACCOMMODATE STANDARD TOP COMPONENTS.

INLETS THAT EXCEED THE MAXIMUM HEIGHT SHOWN SHALL REQUIRE SPECIAL DETAILS AND DESIGN FOR THE INLET WALLS AND BASE. CONSTRUCT INLETS THAT EXCEED 5 FEET IN HEIGHT WITH STEPS SIMILAR TO MANHOLES.SEE RC-3

PLACE SUBBASE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 350.2, IN 4 INCH LAYERS, COMPACTED TO A DENSITY SATISFACTORY TO THE ENGINEER AND INCIDENTAL TO THE INLET PAY ITEM.

9. INLET BOXES THAT ARE NOT MONOLITHIC SHALL HAVE CONSTRUCTION JOINTS AS REQUIRED. SEE SHEET 6 OF 9.

10. FOR INLETS OTHER THAN AS SHOWN ON THE STANDARDS, PROVIDE REINFORCEMENT BASED ON HS25 LOADING AND IN ACCORDANCE WITH 408 SPECIFICATIONS.

FOR JOINT DETAILS.

TYPE 3

SECTION H—H

COVER ADJUSTMENT SLABS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN

INLETS

STANDARD INLET BOXES

(PRECAST)

COMMENDED MAR.25,1994 RECOMMENDED MAR.25,1994 SHT. 70F 9

DIRECTOR, BUREAU OF DESIGN CHEF ENGINEER RC-34

SEE SHEET 6 OF 9 FOR JOINT DETAILS.

SECTION F-F

SECTION G-G

ADDITIONAL CONCRETE
TO SHAPE THE BOTTOM

 FOR PIPE DIAMETERS LARGER THAN 48" R.C.C.P. OR 54" C.M.P., USE A MODIFIED INLET BOX, SHEET 8 OF 9. FOR PIPE DIAMETERS LARGER THAN 48" R.C.C.P. OR 54" C.M.P. IN THE LONG DIRECTION OR LARGER THAN 30" IN THE SHORT DIRECTION, A SPECIAL DETAIL AND DESION IS REQUIRED.

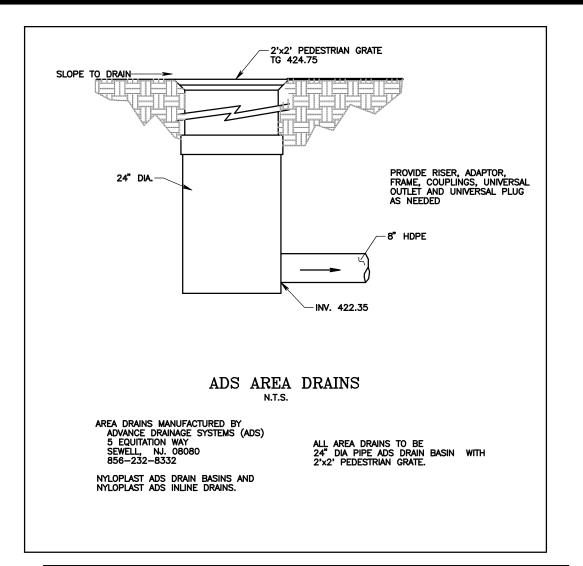
5. LOCATE PIPE OR PIPES, AS INDICATED, WITH THE INLET BOTTOM SHAPED TO CHANNEL THE FLOW TOWARD THE OUTLET PIPE.

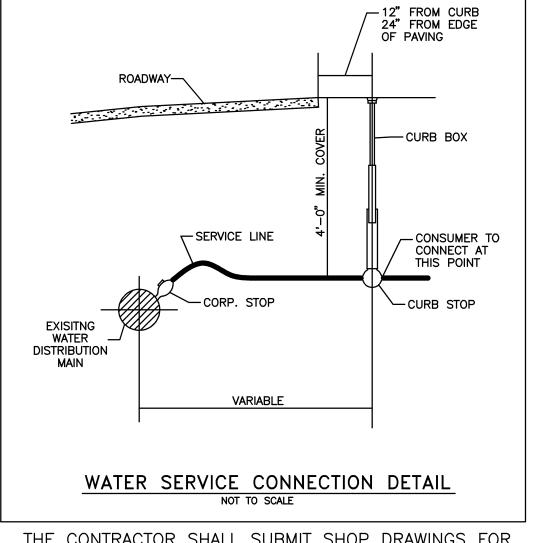
__ 1 1/2" SUMP

INLET SUMP CONDITION DETAIL

∤R=3/4"

-2" BINDER COURSE





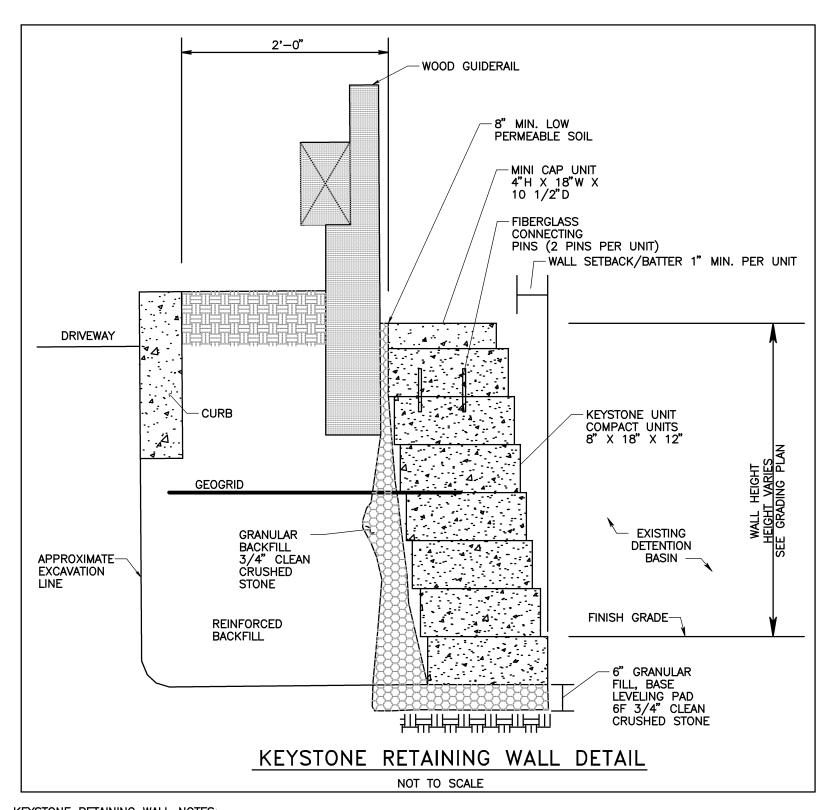
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR STORM SEWER, SANITARY SEWER AND WATER LINE CONSTRUCTION TO THE TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

STORM AND SANITARY SEWER SPECIFICATIONS 1. ALL CONSTRUCTION METHODS EMPLOYED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD CONSTRUCTION AND MATERIALS SPECIFICATIONS FOR SANITARY SEWER EXTENSIONS FOR THE EAST WHITELAND OWNSHIP MUNICIPAL AUTHORITY. 2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE EAST WHITELAND TOWNSHIP MUNICIPAL

3. 4" & 6" PVC SANITARY SEWER TO BE PVC SDR-35. 4 THE TOP OF GRATE OF ALL STORM SEWER INLETS IN THE

ROADWAY ARE TO BE SET FLUSH WITH BINDER COURSE. (SET INLET IN 1 1/2" SUMP CONDITION). 5. ALL ROOF DRAINS TO BE PVC SCHEDULE 40.

6. ALL STORM SEWER INLETS SHALL BE PRECAST CONCRETE AND BE BUILT IN ACCORDANCE WITH PENNDOT ROADWAY CONSTRUCTION 7. PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D3034 FOR SDR 35. PIPE SHALL BE SUITABLE FOR USE AS A GRAVITY SEWER CONDUIT. PROVISIONS MUST BE MADE. DONTRACTION AND EXPANSION AT EACH JOINT WITH A RUBBER RING. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED AND FURNISHED BY THE PIPE SUPPLIER OR OF APPROVED EQUAL AND HAVE BELL AND/OR SPIGOT CONFIGURATIONS COMPATABLE WITH THAT OF THE PIPE.



KEYSTONE RETAINING WALL NOTES: THE RETAINING WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE TO THE SPECIFICATION GUIDELINES OF KEYSTONE CONCRETE MODULAR RETAINING WALL SPECIFICATIONS, SECTION 02276, PARTS 1 THROUGH KEYSTONE RETAINING WALL SYSTEMS ARE MANUFACTURED BY KEYSTONE RETAINING WALL SYSTEMS, INC. 4444 WEST 78TH STREET, MINNEAPOLIS, MN 54435. LOCAL REPRESENTATIVE: YORK BUILDING PROCUCTS COMPANY, INC. YORK PA (717) 848-2831 UNIT COLOR - SUBMIT COLOR SAMPLE TO ARCHITECT AND OWNER FOR APPROVAL. UNIT TEXTURE - ROCKFACE ALL GRANULAR BACKFILL MATERIAL AND GRANULAR BASE LEVELING PAD TO BE COMPACTED AT 95% MAX. DENSITY.

5. COMPACT UNITS: 8" H X 18" W X 12" D. 6. FILL KEYSTONE UNIT VOIDS AND DRAINAGE ZONE WITH 3/4" CLEAN CRUSHED STONE. 7. INSTALL KEYSTONE KAPSEAL ADHESIVE ON LAST COURSE BEFORE APPLYING CAP UNIT. 8. GEOGRID LENGTHS ARE MEASURED FROM THE CONNECTION PINS TO THE END OF THE GEOGRID.

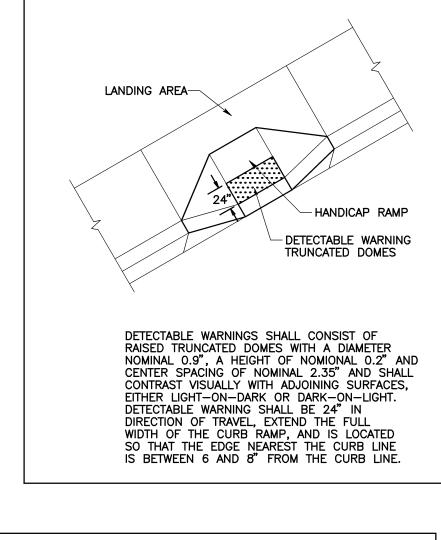
9. ALL SOILS MUST BE COMPACTED IN 8 INCH LIFTS TO 95% STANDARD PROCTOR DENSITY. 10. THE ENGINEER WILL SUBMIT THE DESIGN METHODOLOGY, FINAL DESIGN, SOILS ANALYSIS AND GEOTECHNICAL DESIGN REQUIREMENTS FOR THE WALL SYSTEM AT THE TIME OF THE BUILDING PERMIT APPLICATION.

11. SHOP DRAWINGS SEALED BY THE DESIGN ENGINEER ARE TO BE SUBMITTED TO EAST WHITELAND TOWNSHIP FOR THE TOWNSHIP'S REVIEW AND RECORDS PRIOR TO CONSTRUCTION OF THE WALL.

12. DESIGN CALCULATIONS, FINAL DETAILS AND SHOP DRAWINGS FOR THE PROPOSED RETAINING WALLS WILL BE SUBMITTED TO EAST WHITELAND TOWNSHIP FOR REVIEW AND APPROVAL AT THE TIME OF BUILDING PERMIT APPLICATION. 13. MINI-CAP-ROCK FACE STRAIGHT SIDE 4" H X 18" W X 10 1/2" D.

14. IF RETAINED SOIL ENCOUNTERED IS SILTY SAND OR SILT/LEAN CLAY THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR THE PLACEMENT AND LENGTH OF THE GEOGRID. 15. THE INSTALLATION OF THE WALL MUST BE CONDUCTED UNDER THE DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER.

THEODORE JOSEPH GACOMI ENGINEER NO. 031545-E

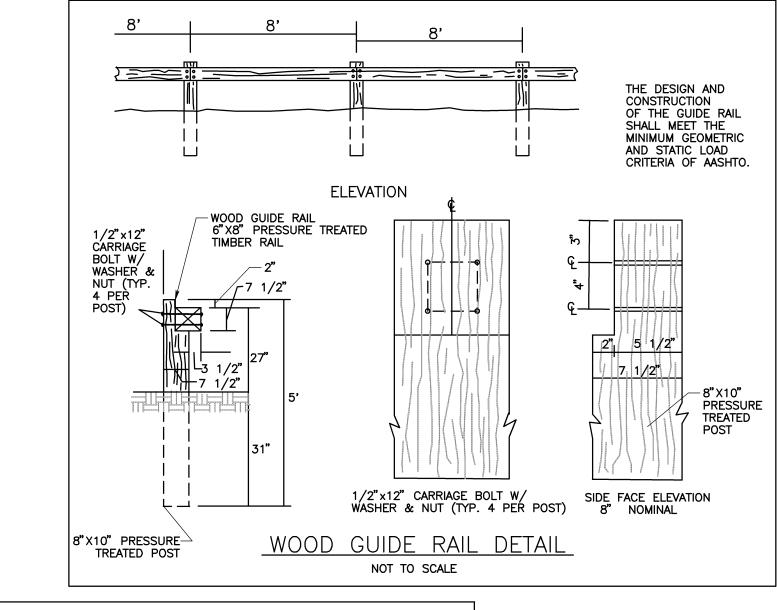


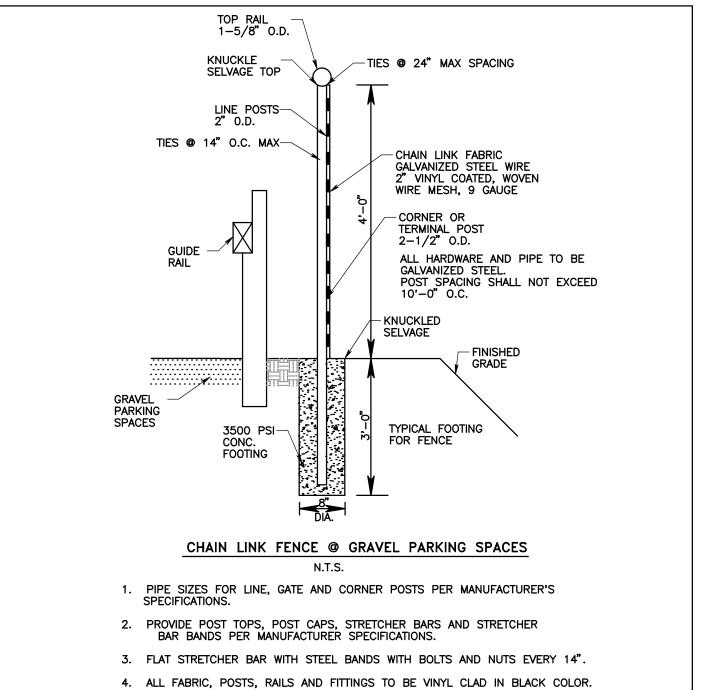
NOTE: WARP ROADWAY PAVEMENT IF NECESSARY

DEPRESSED CURB AND SIDEWALK RAMP

FOR HANDICAPPED PERSONS

N.T.S.





5. TENSION WIRES, HOG RINGS AND WIRES SHALL HAVE VINYL CLAD BLACK FINISH.

6. ALL FITINGS, RAILS AND POSTS TO BE COATED WITH MATCHING VINYL BY THE FUSION—BOND METHOD. PAINTED FITTINGS ARE NOT ACCEPTED.

7. INSTALL SAFETY FENCE AT GRAVEL PARKING SPACES.

CONSTRUCTION PLAN COVENANT PRESBYTERIAN CHURCH

EAST WHITELAND TOWNSHIP 400 LANCASTER AVENUE Edward B. Walsh & Associates, Inc. CIVIL ENGINEERS & SURVEYORS LIONVILLE PROFESSIONAL CENTER

Plotted: 3/24/2015 File:

125 Dowlin Forge Rd. Exton, Pennsylvania 19341 Phone: 610-903-0060 Fax: 610-903-0080

*Date-*03-16-15 Scale-N.T.S. *Drawn*− CE Checked- DHD Sheet- 7 OF 8 WWW.EBWALSHINC.COM F:\JB\3555\FPS\3555-B12 Const Plan-2.pro

 ${\it Project-3555}$

4 MIL POLYETHYLENE _ 2" X 2" X 36" STAKES BARRIER STRAW BALE BARRIERS SHOULD NOT BE USED FOR MORE THAN 3 MONTHS. STRAW BALE BARRIERS SHALL BE PLACED AT EXISTING LEVEL GRADE. CONCRETE SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER. HAS BEEN UNDERMINED OR TOPPED SHALL BE NON-DISCHARGE CONCRETE WASHOUT AREA Straw Bale Barriers w/ Polyethylene Barrier

ANY SECTION OF STRAW BALE BARRIER WHICH

EROSION AND SEDIMENTATION CONTROL NOTES

REVISIONS FROM THE CHESTER COUNTY CONSEVATION DISTRICT.

BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL

2. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTRO

3. THE CONTRACTOR IS ADVISED TO BECOME THROUGHLY FAMILIAR WITH THE PROVISION

RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT ALL TIMES.

DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

IMMEDIATELY WITH EMERGENCY PROBLEMS OR EROSION.

ELIMINATE UNNECESSARY DAMAGE

SEED MIX SPECIFICATIONS

NAME Kentucky Blue Grass

Ryegrass Perennial Pennlawn Fescue

Annual Ryegrass

Pennstar or Pennfine

EXCEPTIONAL VALUE WATERSHED

EXTREME CARE SHOULD BE EXERCISED IN ALL DISTURBANCE

REMAIN EXPOSED MUST BE SEEDED AND MULCHED IMMEDIATELY.

ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL

1. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST

INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS

PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT

THE NON-GERMINATION PERIODS ARE BETWEEN 6/15 AND 8/15 AND 9/30

5. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMED,

ACTIVITIES TO PREVENT DEGRADATION TO THE WATERS OF

SPECIAL PROTECTION NOTES:

FERTILIZED, SEEDED AND MULCHED IMMEDIATELY.

MAINTENANCE OF EROSION/SEDIMENTATION CONTROLS

AND RENETTING MUST BE PERFORMED IMMEDIATELY.

AFTER FACH STORM EVENT AND ON A WEEKLY BASIS A

REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING,

1/3 THE ABOVE GROUND HEIGHT OF STRAW BALE DIKES.

2. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF SILT FENCING.

3. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH

THE CONTRACTOR IS RESPONSIBLE TO PERFORM ENVIRONMENTAL DUE DILIGENCE

O DETERMINE THAT IMPORTED FILL MATERIAL MEETS THE PADEP QUALIFICATIONS

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON—WATER SOLUBLE, NON—ECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS

PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE

ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY

HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

SUBSTANCE IT MUST BE RESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FI

THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT

ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED

ESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE PA DEP'S

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE PADEP'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL

WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

THE COMMONWEALTH.

CLEAN FILL RESPONSIBILITY

GENERAL NOTES

SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON—SITE FLOWS PRIOR TO DISCHARGE OR OF STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES MUST BE IMMEDIATELY IMPLEMENTED BY THE DEVELOPER TO ELIMINATE ALL SUCH PROBLEMS.
 ONLY LIMITED UPSLOPE DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO SEDIMENT TRAPS AND INTERCEPTOR CHANNELS FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THESE CONTROLS.
 EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
 AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED.
 UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESPEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY.

6. THE DEVELOPER IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART I, DEPARTMENT OF ENVIRONMENTAL RESOURCES, SUB-APART C, PROTECTION OF NATURAL RESOURCES, ARTICLE 11, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

ARTICLE 11, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

7. A COPY OF THIS PLAN MUST BE POSTED AT THE CONSTRUCTION SITE IMPLEMENTED IN ACCORDANCE WITH STATE LAW.

8. LIMITS OF DISTURBANCE MUST BE CLEARLY MARKED IN THE FIELD PRIOR TO DISTURBANCE. ANY CHANGE OR ENCROACHMENT INTO THESE AREAS WITHOUT CONSERVATION DISTRICT REVIEW AND APPROVAL MAY REQUIRE THE DEVELOPER TO CEASE DISTURBANCE.

9. THE DEVELOPER MUST DEVELOP AND HAVE APPROVED BY THE COUNTY CONSERVATION DISTRICT, A SEPARATE EROSION AND SEDIMENTATION CONTROL PLAN FOR EACH SPOIL, BORROW, OR OTHER WORK AREA NOT DETAILED IN THE APPROVED PLAN, WHETHER LOCATED WITHIN OR OUTSIDE THE CONSTRUCTION LIMITS.

OUISIDE THE CONSTRUCTION LIMITS.

10. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 ABOVE GROUND HEIGHTS OF SILT FENCING.

11. IF ANY SIGNIFICANT CHANGES ARE TO BE MADE TO THE LIMITS OF DISTURBANCE OR TO THE EROSION AND SEDIMENT CONTROL PLAN, THE BUILDER OR LANDOWNER WILL CONTACT THE CHESTER COUNTY CONSERVATION DISTRICT AT 610 925-4920 FOR ADEQUACY OF THESE CHANGES

I. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIAL AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS

2 THE DEVELOPER WILL BE RESPONSIBLE FOR THE PROPER

CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS

AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT BURY, DUMP, OR DISCHARGE ANY BUILDING

CHANGES.

12. ALL AREAS REQUIRING INTERIM OR FINAL STABILIZATION MUST BE IMMEDIATELY UPON ESTABLISHING FINISHED GRADE/ANDOR UPON TEMPORARY CESSATION OF EARTH DISTURBANCE. AREAS UTILIZING VEGETATIVE STABILIZATION MUST BE SEEDED/PLANTED AND MÜLCHED IN SUFFICIENT TIME TO GERMINATE BY BY OCTOBER 15 OF EACH YEAR. SEEDING WILL BE ACCOMPLISHED THROUGH THE USE OF HYDROSEEDING TECHNIQUES OR CONVENTIONAL SEEDING AND AND MUCHING AT A PATE OF 3 O TONS DEPLACED AS PRECOMMENDED IN THE

AND MULCHING AT A RATE OF 3.0 TONS PER ACRE AS RRECOMMENDED IN THE

3. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL FACILITIES WEEKLY AND

AFTER EACH RAINFALL EVENT. ANY DAMAGED OR BROKEN FACILITY MUST BE REPAIRED OR

4. PRIOR TO THE REMOVAL OF ANY EROSION AND SEDIMENTATION BMP'S AND PRIOR TO THE COMPLETION OF THE WORK, THE TOWNSHIP ENGINEER MUST BE NOTIFIED.

5. TEMPORARY STABILIZATION IS TO BE PROVIDED FOR ALL EXPOSED AREAS WHERE EARTHWORK IS DELAYED AND PERMANENT STABILIZATION IS TO BE PROVIDED FOR ALL DISTURBED AREAS.

6. TEMPORARY BMP.S TO BE INSTALLED INCLUDE: REINFORCED FILTER FABRIC FENCE, STANDARD FILTER FABRIC FENCE, EROSION CONTROL BLANKETS AND A ROCK CONSTRUCTION ENTRANCE.

7. AFTER FINAL STABILIZATION, TEMPORARY EROSION AND SEDIMENT BMP.S ARE TO BE REMOVED. ANY LAND DISTURBED DURING THE REMOVAL OF THE BMP.S ARE TO BE STABILIZED IMMEDIATELY.

8. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF

MUST BE PERFORMED IMMEDIATELY.

PENN STATE AGRONOMY GUIDE.

INCLUDED WITHIN THIS PLAN.

REPLACED IMMEDIATELY.

1. SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE

THAT HAS BEEN PROCESSED FOR RE-USE.)

6. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION. THI

CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVEN

DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND OF SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CURSHED

7. PROTECTION TO EXISTING TREES AND SHRUBS SHALL BE TAKEN BY THE CONTRACTOR TO

8. UNTIL THE SITE IS STABILIZED ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL

PERMITTEE OR CO-PERMITEE SHALL INCLUDE THE FOLLOWING INFORMATION:

A. THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY

B. ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON—COMPLIANCE.

10. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANEN

HAS A MINIMOM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES.

DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH

BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION

Grass Seed: All seed shall be fresh, and new crop seed shall be

labeled in accordance with the U.S. Department of Agriculture's Rules and Regulations under the Federal Seed Act in effect on the

germination. the grass seed shall contain the percentages of varieties and shall be of the quality indicated by the percentages of purity and germination indicated on the list furnished with the applicable plan. Seed mix shall be as specified. Spread at the rate of 4 lbs. per 1000 sq. ft. minimum for slopes 3:1 if greater, use 5 lbs. per 1000 sq. feet.

PERMANENT SEEDING DATES MARCH 1 TO JUNE 1, AUGUST 1 TO OCTOBER 1

Mulch: Shall be hav which is free of weeds and seeds not moldy or

Temporary Seeding: Shall be annual ryegrass at 3 lbs. per 1000 sq. ft.

1. Any undisturbed area on which activity has ceased and which will

rates. Disturbed areas which are not at finished grade and which will

be redisturbed within 1 year may be seeded and mulched with a quick

redisturbed within 1 year must be seeded and mulched with a permanent

turbed areas which are either at finished grade or will not be

2. Diversions, channels, sedimentation basins, sediment traps, and

following earth moving procedures. Seed shall be annual rye grass applied at the rate of 3 lbs. per 1000 sq. ft.

3. Hay or straw mulch must be applied at rates of at least 3.0 tons

4. Graded areas are to be temporarily seeded and mulched immediately

5. Establish permanent seeding as soon as possible after final grading

remain exposed must be seeded and mulched immediately. During non-germinating periods, mulch must be applied at the recommend

arowing temporary seeding mixture and mulch.

stockpiles must be seeded and mulched immediately.

Site preparation — apply 1 ton of agricultural grade limestone per acre plus 50—50—50 fertilizer

seeds and inculant mixed with water and applied as slurry, at a rate of 1,000 gallons per acre.

Lime: up to 4000 lbs. limestone per acre mixed with 1000 gallons of water per acre.

Fertilizer: 50-100-100 at rate of 25 lbs/1,000 s.f.

Inoculant: use 5 times rate recommended on the package when seeding with a hydroseeder.

straw at a rate of 3 tons per acre.

Shall be lime, fertilizer, grass seeds, legume

at the rate of 25 lbs/1,000 s.f. and work in where possible. After seeding, mulch with hay or

Sod shall be grown under supervision of the Bureau of Plant Industry Pennsylvania Department of Agriculture or shall be composed of only Blue Tag Certified Seed.

otten, and shall be applied at all critical slope areas at

PARTS BY WEIGHT %PURITY GERMINATION

date of invitation for bids. All seed shall be furnished in scaled

certifying as to the kind, percent by weight, purity and

a rate of 3 tons per acre.

Kentucky Bluegrass Sod (if called for)

Temporary Seeding Dates: Anytime

SEEDING AND MULCH NOTES

9. 3:1 SLOPES TO BE STABILIZED W/ EROSION CONTROL BLANKET N-75.

C. THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDIN

PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.

PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR,

REPLACEMENT, REGRADING, RESEEDING REMULCHING AND RENETTING, MUST BE PREFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMP'S FAIL TO PERFORM AS

EXPECTED REPLACEMENT BMP'S OF MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED

WHERE BMP'S ARE FOUND TO FAIL TO ALLEVIATE EROSION OR SEDIMENT POLUTION THE

THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.

5. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271. ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY,

PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E & S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE

OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART DEPARTMENT OF ENVIORONMENTAL PROTECTION, SUBPART C, PROTECTION OFNATURAL

BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON DISTURBED AREAS.

2"x2"x3/4" RUBBER BLOCK 1/4" NYLON ROPE-EXPANSION RESTRAINT **BAG DETAIL**

BAG REMOVAL **INSTALLATION DETAIL ELEVATION VIEW** PLAN VIEW Berms required for all installations. Earthen berm shall be maintained until roadway is stoned. Road subbase berm shall be maintained until roadway is paved. Six inch minimum height asphalt berm shall be maintained until roadway surface receives final coat. FILTER BAG INLET PROTECTION

UTILITY LINE TRENCH EXCAVATION NOTES: A. LIMITE ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. B. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILL WILL BE SELF CONTAINED AND SEPARATED FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS. C. ALL SOIL EXCAVATION FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. D. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILL THAT CAN BE COMPLETED THE SAME DAY. E. WATER THAT ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE. F. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.

MULCHING, i.e. YARDS.

REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OF OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENT: IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT TH SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN CCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION PECIFICATIONS. AREAS WHICH ARE TO BE TOP—SOILED SHALL BE SCARIFIE TO A MINIMUM DEPTH OF 3 TO 5 INCHES (6 TO 12 INCHES ON COMPACTED SOILS) PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL

HAVE A MINIMUM 4 INCH'S OF TOPSOIL IN PLACE PRIOR TO SEEDING AND

UTILITY EROSION AND SEDIMENTATION CONTROL MEASURES
TO BE IMPLEMENTED 1. LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN A DAY.

2. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION, AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS. *3. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE REPLACEMENT, PLUG INSTALLATION, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. 4. TRENCH PLUGS SHALL BE PLACED IN ALL TRENCHES OF THE SAME TYPE AND SPACING INDICATED BELOW: PLUG MATERIAL 500 FT. EARTH FILLED SACKS 5. WATER WHICH ACCUMULATES IN THE OPEN TRENCH SHALL BE OMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS.

6.ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF

*EXCEPTION FOR SANITARY SEWER LINES TO BE AIR—TESTED. BACK—FILLING OF SANITARY SEWER LINES CAN BE DELAYED FOR 5 DAYS UNTIL AIR—TESTING IS COMPLETED. THE SANITARY SEWER TRENCH SHALL THEN BE BACKFILLED DURING THE NEXT DAY. IN ADDITION TO THE ABOVE REQUIREMENT, ALL DISTURBED GROUND AREAS ADJACENT O THE TRENCH SHALL BE GRADED TO FINAL CONTOURS, SIL INSTALLED PARALLEL TO CONTOUR LINES AND ON THE DOWN SLOPI SIDE OF THE TRENCH AND ALL DISTURBED GROUND AREAS SEEDED AND MULCHED IMMEDIATELY.

MAINTENANCE PROGRAM VEGETATION SHALL BE MOWED WHENEVER NECESSARY TO MAINTAIN A PLEASING APPEARANCE AND DISCOURAGE WEED GROWTH. ALL LOCATION REGULATIONS WILL BE COMPLIED WITH.

MAINTENANCE OF THE SEEPAGE BED AND OTHER FACILITIES SHALL THE RESPONSIBILITY OF THE PROPERTY OWNER UNLESS SPECIFIED OTHERWISE BY THE TOWNSHIP. AFTER THE BERM AND STABILIZED SWALES ARE ESTABLISHE WEEKLY INSPECTIONS FOR EACH DEVICE WILL BE MADE TO DETERMINE THE DURABILITY OF THE SLOPE AFTER EVERY STORM TO DETERMINE THEIR RESISTANCE TO DRIVING RAINS.

4. AREAS THAT CONTAIN SOD SHALL BE CHECKED VERY CAREFULLY TO ENSURE THAT JOINTS BETWEEN THE SOD STRIPS ARE TIGHT AND SECURE. WHERE JOINT SEPARATION IS IN EVIDENCE, A CAREFUL INSPECTION OF EACH JOINT SHALL BE MADE TO DETERMINE WHETHER UNDERMINING OF THE STRIPS IS OCCURRING. IF IT IS, THE STRIPS SH BE ROLLED UP, THE SUBSURFACE SHALL BE FILLED AND GRADED AS REQUIRED, AND THE SOD STRIPS SHALL BE RELAYED WITH TIGHT SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED ANI REGRADED AS NECESSARY AND THEN RESEEDED. A BURLAP OR STRAW COVER WILL BE APPLIED TO RETAIN THE SEED UNTIL IT HAS A CHANCE

6. THE ABOVE PROCEDURE SHALL BE REPEATED AFTER EACH SIZABLE STORM UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT. AT MONTHLY INTERVALS THEREAFTER, INSPECTIONS AND NECESSARY CLEANING WILL BE DONE. TRASH THAT IS REMOVED FROM ANY OF THE CONTROL DEVICES SHALL BE DISPOSED OF AT AN APPROVED TOWNSHIP DISPOSAL AREA. SILT THAT HAS ACCUMULATED SHALL BE REMOVED AND USED AS FILL WHEREVER REQUIRED ON THE SITE 7. PERMANENT GRASS, SOD OR GROUND COVER SHALL BE ESTABLISHED FOLLOWING FINAL GRADING, SEFDED AND SODDED AREAS SHALL I

FERTILIZED USING A 10.20.20 FERTILIZER AT A RATE OF 25 LBS./1,000

8. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE ND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING

TEMPORARY CONTROL MEASURES 1. REMOVE AS LITTLE NATURAL VEGETATIVE COVER AS NECESSARY TO ACHIEVE GRADING OPERATIONS. AN ATTEMPT SHOULD BE MADE TO PRESERVE THE NATURAL COVER ALONG ABUTTING PROPERTIES. WHENEVER TOPSOIL IS TO BE STOCKPILED THE STOCKPIL SHOULD BE STABILIZED IMMEDIATLY AGAINST EROSION BY SEEDING WITH ANNUAL RYEGRASS AT A RATE OF 1 LB./1,000 S.F...
IF SEASONAL CONDITIONS WILL NOT PERMIT SEEDING, THE STOCKPILE SHOULD BE ENCLOSED WITHIN A STRAW BALE BARRIER. 5. STOCKPILES OF MULCHES SUCH AS WOOD CHIPS, STRAW AND JUTE MESH SHOULD BE AVAILABLE TO DEAL WITH EROSIVE CONDITIONS 4. ALL CUT AREAS WHOSE SURFACES ARE SUBJECT TO EROSIVE ACTION SHOULD BE MULCHED WITH ONE OF THE ABOVE MULCHES

5. ALL EROSION CONTROL FACILITIES SHOULD BE CHECKED AFTER EACH RAINSTORM TO INSURE THAT THEY ARE IN GOOD REPAIR AND WORKING CONDITION. DAMAGE TO ANY FACILITY SHALL BE REPAIRED 6. TO ALL AREAS WHICH SHALL REMAIN OPEN (UNVEGETATED) AND WILL BE SUBJECT TO THE ACTION OF CONSTRUCTION EQUIPMENT, IMMEDIATELY APPLY A WOOD CHIPMULCH AT A RATE OF 3 TONS PER ACRE. ALL OTHER DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH ANNUAL RYEGRASS AT A RATE OF 1 LB. PER 1,000 S.F.

7. DIVERSIONS, CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS, AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY. 8. APPLY AGRICULTURAL GRADE LIMESTONE AT A RATE OF 50 LBS. PER 1,000 S.F., AND TYPE 10-20-20 FERTILIZER AT A RATE OF 5 LBS. PER 1,000 S.F. TO ALL DISTURBED AREAS, APPLY HAY OR STRAW MULCH AT A RATE OF 140 LBS., PER 1,000 S.Y.

9. ALL AREAS REQUIRING INTERIM OR FINAL STABILIZATION MUST BE ADDRESSED IMMEDIATELY. AREAS UTILIZING VEGETATIVE STABILIZATION MST BE SEEDED/PLANTES AND MULCHED IN SUFFICIENT TIME TO GERMINATE BY OCTOBER 15 OF EACHYEAR. SEED AT A RATE OF 3.0 TONS/ACRE.

TABILIZATION PROCEDURE FOR DISTURBED AREAS DISTURBED AREAS ON WHICH ACTIVITIES HAVE CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-RATES. DISTURBED AREAS WHICH ARE NOT A FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MAY BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEEDING MIXTURE AND MULCH ISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL BE -DISTURBED WITHIN 1 YEAR MUST BE SEEDED AND MULCHED WITH . PERMANENT SEED MIXTURE AND MULCH. ALSO, DEFINE THE NON—GERMINATING PERIODS STATING THAT AREAS MULCHED DURING THOSE PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED WITH 20 DAYS OF THE ENDING OF THOSE PERIODS. STABILIZATION CONSISTS OF A MINIMUM OF 75% ESTABLISHED VEGETATION

UNFORESEEN EROSION CONDITIONS SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL RESOURCES, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

3. PROTECTION TO EXISTING TREES AND SHRUBS SHALL BE TAKEN BY THE CONTRACTOR TO ELIMINATE UNNECESSARY DAMAGE. A COPY OF THESE EROSION AND SEDIMENTATION CONTROL PLANS MUST BE POSTED AT THE CONSTRUCTION SITE IN ACCORDANCE WITH STATE LAW.

SODDING MATERIAL (A) SOD. MEETING THE FOLLOWING REQUIREMENTS: CULTIVATED OF PREDOMINANTLY KENTUCKY BLUEGRASS. CONTAINING NOT MORE THAN 10% OF OTHER FINE SPECIES. ENTIRELY FREE FROM WEEDS, AS DEFINED IN THE PENNSYLVANIA

FREE FROM HARMFUL INSECTS AND DISEASE. CULTURED IN MINERAL SOIL. ERTIFIED BY THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE OR HE DEPARTMENT OF AGRICULTURE OF THE STATE FROM WHICH SOD

RECTANGULAR SECTION 12 TO 24 INCHES WIDE, 2 TO 6 FEET LONG AND APPROXIMATELY 3/4 INCH THICK.

GRASS HEIGHT, MAXIMUM 1 1/2 INCHES. WELL-MOISTENED CONDITION. (B) LIME - AGRICULTURAL GRADE LIMESTONE: ADDING LIME TO THE SOIL IS VITAL TO YOUR RE-VEGETATION EFFORTS THE MAJORITY OF DISTURBED SITE ARE ACID AND INFERTILE. ACID PRECIPITATION COMPLICATES THIS PH PROBLEM. A SOIL TEST FROM A REPUTABLE LABORATORY IS RECOMMENDED. IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY LIME AT THE FOLLOWING RATES: LIME 4 TONS PER ACRE 190 LBS. PER 1,000 S.F. (C) FERTILIZER - COMMERCIAL TYPE 10-20-20:

THE NEED FOR FERTILIZER CAN NOT BE UNDERESTIMATED. FERTILIZER WILL GREATLY INCREASE THE GROWTH OF BOTH THE PLANT AND ITS ROOTS. ONCE AGAIN, A SOIL TEST IS THE PREFERRED ALTERNATIVE IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY FERTILIZER AS

FERTILIZER 930 LBS. PER ACRE 25 LBS. PER 1,000 S.F.

WATER FLOW

BLOWN/PLACED —

FILTER MEDIA

12" MIN.-OVERLAP

BALE BINDING

WORK AREA

PLAN

STRAW BALE BARRIERS @ CONCRETE WASH OUT AREA

NOT TO SCALE

RAW BALE BARRIERS SHOULD NOT BE USED FOR MORE THAN 3 MONTHS.

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER.

STRAW BALE BARRIERS MUST BE PLACED AT LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO TH MAIN BARRIER ALIGNMENT.

ANY SECTION OF STRAW BALE BARRIER WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEE ROCK FILTER OUTLET DETAIL.

INTENT OF CONSERVATION PROGRAM: THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSION OF THE EXPOSED SITE SOILS DURING THE CONSTRUCTION AND PERMANENT LIFE PERIODS OF THE DEVELOPMENT. THE PROGRAM REQUIRES RETENTION OF ALL SEDIMENTS ON THE CONSTRUCTION SITE TO MINIMIZE THE IMPACT OF THESE OBJECTIVES WILL BE ACHIEVED BY MINIMIZING THE EXPOSURE TIME OF POTENTIALLY EROSIVE SOILS TO RUNOFF AND INSTALLATION OF THE TEMPORARY AND PERMANENT CONSERVATION PRACTICES IN PROPER SEQUENCE WITH CONSTRUCTION. THE INTENT UTAWAY VIEW JOINING FENCE SECTIONS OF THIS PROGRAM SHOULD BE UNDERSTOOD AND IMPLEMENTED THROUGHOUT THE ENTIRE DEVELOPMENT. THE VARIOUS CONSTRUCTION TRADES SHOULD BE APPRISED OF THIS PROGRAM AND DIRECTED TO PREVENT UNDUE DISTURBANCE OF PREPARED AND STANDARD SECTION 18" MIN. FENCE HEIGHT PROTECTED SURFACES. 2. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE SEEDED AND MULCHED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. 3. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER O OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATEY AFTER EACH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON—ERMINATING PERIODS, MULCH MUST BE APPLIED AS THE SPECIFIED RATES IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED TOE ANCHOR TRENCH ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION * SPACING OF SUPPORT STAKES @ 8' MAX.
MINIMUM DIMENSION OF SUPPORT STAKES IS TO BE 2"X 2" NOMINAL. SPECIFICATIONS. 4. ANY AREAS WHERE HYDROSEED IS USED, MULCH IS NEEDED AT THE RATE OF 3 TONS PER ACRE. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDED WITH VEGETATIVE COVER AND STOCKPILED FOR RE-USE IN FINISH GRADING. REINFORCED SECTION18" MIN. FENCE HEIGHT 5. ONLY LIMITED SLOPE DISTURBANCE WILL BE PERMITTED TO PROVIDE FABRIC FENCE 6. EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED TABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCÉ WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS. 7. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED. 8. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET (35'). .STOCKPILE TOE ANCHOR TRENCH 9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED 10. THE DEVELOPER WILL BE RESPONSIBLE FOR THE PROPER * SPACING OF SUPPORT STAKES @ 8' MAX.
MINIMUM DIMENSION OF SUPPORT STAKES IS TO BE 2"X 2" NOMINAL. CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED 11. THE DEVELOPER MUST DEVELOP, AND HAVE APPROVED BY THE COUNTY CONSERVATION DISTRICT, A SEPARATE EROSION AND SEDIMENTATION CONTROL PLAN FOR EACH SPOIL, BORROW, OR OTHER WORK AREA NOT NOT TO SCALE

DETAILED IN THE APPROVED PLAN, WHETHER LOCATED WITHIN OR OUTSIDE OF THE CONSTRUCTION LIMITS. SILT FENCING MAINTENANCE NOTES 12. SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE 1. FILTER FABRIC FENCE MUST BE PLACED AT LEVEL GRADE.
BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST
8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON—SITE FLOWS PRIOR TO DISCHARGE OR OF STABILIZING THE SURFACE INVOLVED, ADDITIONAL MEASURES MUST BE IMMEDIATELY

IMPLEMENTED BY THE DEVELOPER TO ELIMINATE ALL SUCH PROBLEMS. 13. FILLS GREATER THAN 3:1 SLOPE AND CUTS GREATER THAN 3:1 2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH SHALL BE SEEDED AND MULCHED AND PROTECTED WITH EROSION 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE. CONTROL BLANKET. 3. ANY SECTION OF FILTER FABRIC FENCE WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. (SEE ROCK FILTER OUTLET DETAIL) 14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED. MAINTENANCE MUST CONTROLS AFTER FACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN UT. REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING,

AND RENETTING MUST BE PERFORMED IMMEDIATELY.

15. ACCUMULATED SILT SHALL BE REMOVED ALONG SILT FENCE, REGARDED AND STABILIZED ELSEWHERE ON THE SITE.

COVER IS ESTABLISHED.

WITH AN EROSION CONTROL BLANKET.

16. SILT FENCE TO BE MAINTAINED AND RECALLED IF NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD UNTIL PERMANENT VEGETATIVE

17. ALL SLOPES STEEPER THAN 3:1 MUST BE STABILIZED WITH AN

18. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

20. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A

21. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR

SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON—DISTURBED AREAS.

THE CHESTER COUNTY CONSERVATION DISTRICT.

ANY BUILDING MATERIAL OR WASTES AT THE SITE.

CLEAN FILL DUE TO ANALYTICAL TESTING.

LINEAL SPACING

__2" X 2" WOOD STAKE

- COMPOST FILTER SOCK

(SIZE VARIES-SEE PLAN)

AREA TO BE PROTECTED

- COMPOST FILTER SOCK

(SIZE VARIES—SEE PLAN)

SIDE DITCH, STORM SEWER OR SURFACE WATER.

19. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E. & S. CONTROL PLAN,

HE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM

WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES,

ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

22. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE

OF ALL BUILDING MATERIALS AND WASTE IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA.

THE DEVELOPER WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION,

23. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL

BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A

SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS

RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORKDAY AND DISPOSED AS A MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED OR SWEPT INTO ANY ROAD

12) INCHES.

MAINTENANCE NOTES:

AREA TO BE PROTECTED AREAS AS DIRECTED.

COMPOST FILTER SOCK DETAIL NOT TO SCALE

. FILL SOCK WITH APPROVED COMPOST.

2. PLACE FILTER SOCK ON LEVEL CONTOUR OR SURFACE

ENSURE A MINIMUM OVERLAP OF AT LEAST TWELVE

4. ANCHOR FILTER SOCKS WITH APPROVED STAKES.
5. POSITION EACH CLOSED END OF THE SOCK POINTING

UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION THAN THE OVERALL FILTER SOCK BODY.

6. FILTERSOCKS SHOULD NOT BE BEDDED IN TOPSOIL BUT BLOWN/PLACED FILTER MEDIA SHOULD BE PLACED

AT THE TOES OF THE FILTER SOCKS BOTH UP AND DOWN SLOPE SIDE OF THE SOCK.

. ROUTINELY INSPECT FILTER SOCK INSTALLATION FOR

2. REMOVE BUILT—UP SEDIMENT RETAINED BY THE FILTER

EXPOSED HEIGH OF THE SOCK. DISPOSE OF SEDIMENT

OWNER APPLICANT / RESPONSIBLE PARTY

COVENANT PRESBYTERIAN CHURCH

400 LANCASTER AVENUE

MALVERN, PA 19355

FAX: 610 648-9490

PHONE: 610 648-0707

DAMAGE THAT WOULD MAKE THE FILTER SOCK

NON-FUNCTIONING. REPAIR OR REPLACE DAMAGED

SOCK WHEN THE SEDIMENT REACHES 1/3 OF THE

3. AT COMPLETION OF PROJECT, LEAVE COMPOST FILTERSOCK IN PLACE, SLIT OPEN THE SOCK TO

EXPOSE THE COMPOST MATERIAL.

STABILIZATION AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED WITHIN THIS PLAN.

24. SEDIMENT TRACKED ONTO ANY ROADWAY OR SIDEWALK SHALL BE

CODE 206.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE

FENCE SHALL BE PLACED PARALLEL TO CONTOURS SILT FENCE POST ROCK FILTER TYPICAL SILT FENCE PLACEMENT NOT TO SCALE SILT FENCE NOTE

ALL SILT FENCE MUST BE INSTALLED ON DISTURBED GROUND, PARALLEL TO EXISTING ELEVATION CONTOURS WITH BOTH ENDS EXTENDING UPSLOPE AT LEAST 8' AT A 45' ANGLE.

THE DISCHARGE FROM THE FILTER BAG SHOULD NOT PASS THROUGH A DISTURBED AREA OR CAUSE AN EROSION PROBLEM DOWN SLOPE. TOP SOIL -STOCK PILE SILT FENCE-NOTE: SURROUND ENTIRE BASE OF STOCK PILE WITH SILT FENCE TOPSOIL STOCK PILE DETAIL STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUSTBE 2:1 OR FLATTER.

TO ALLOW FOR TURNS.

PLAN VIEW

TYPICAL SECTION A-A

ROCK CONSTRUCTION ENTRANCE DETAILS

NOT TO SCALE

ROCK CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY

MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

AASHTO NO. 1 ROCK-

WELL VEGETATED AREA

PLAN VIEW

--- AASHTO #57(6°)

ELEVATION

NON WOVEN GEOTEXTILE FILTER BAG WHICH RETAINS ALL SEDIMENT PARTICLES LARGER THAN 150 MICRONS.

CLAMP PUMP DISCHARGE HOSES SECURELY INTO FILTER BAGS.

PLACE FILTER BAGS ON STABLE OR WELL VEGETATED AREAS WHICH ARE FLATTER THAN 5% AND WHICH WILL NOT ERODE WHEN SUBJECTED TO BAG

LIMIT PUMPING RATE TO 1/2 THE MANUFGACTURE'S MAXIMUM PUMPING

WHEN SEDIMENTS FILL 1/2 THE VOLUME OF A FILTER BAG, IMMEDIATELY REMOVE THAT BAG FROM SERVICE. PROPERLY DISPOSE OF SPEND BAGS WITH THEIR SEDIMENTS.

SEDIMENT FILTER BAG FOR PUMPED WATER

____ 8" MIN.

- GEOTEXTILE

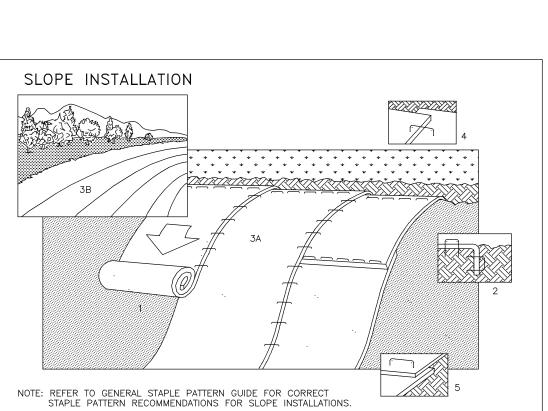
* * *

* INTAKE *

*

_ PUMP

INTAKE HOSE



DETAIL SHEET

CONSTSRUCTION PLAN FOR

COVENANT PRESBYTERIAN CHURCH EAST WHITELAND TOWNSHIP 400 LANCASTER AVENUE

125 Dowlin Forge Rd. Exton, Pennsylvania 19341 Phone: 610-903-0060

Plotted: 3/24/2015 File:

WWW.EBWALSHINC.COM F:\JB\3555\FPS\3555-B12 Const Plan-2.pro

Project – 3555 Date-03-16-15 Scale- N.T.S. *Drawn*- CE Checked- DHD Sheet- 8 OF 8

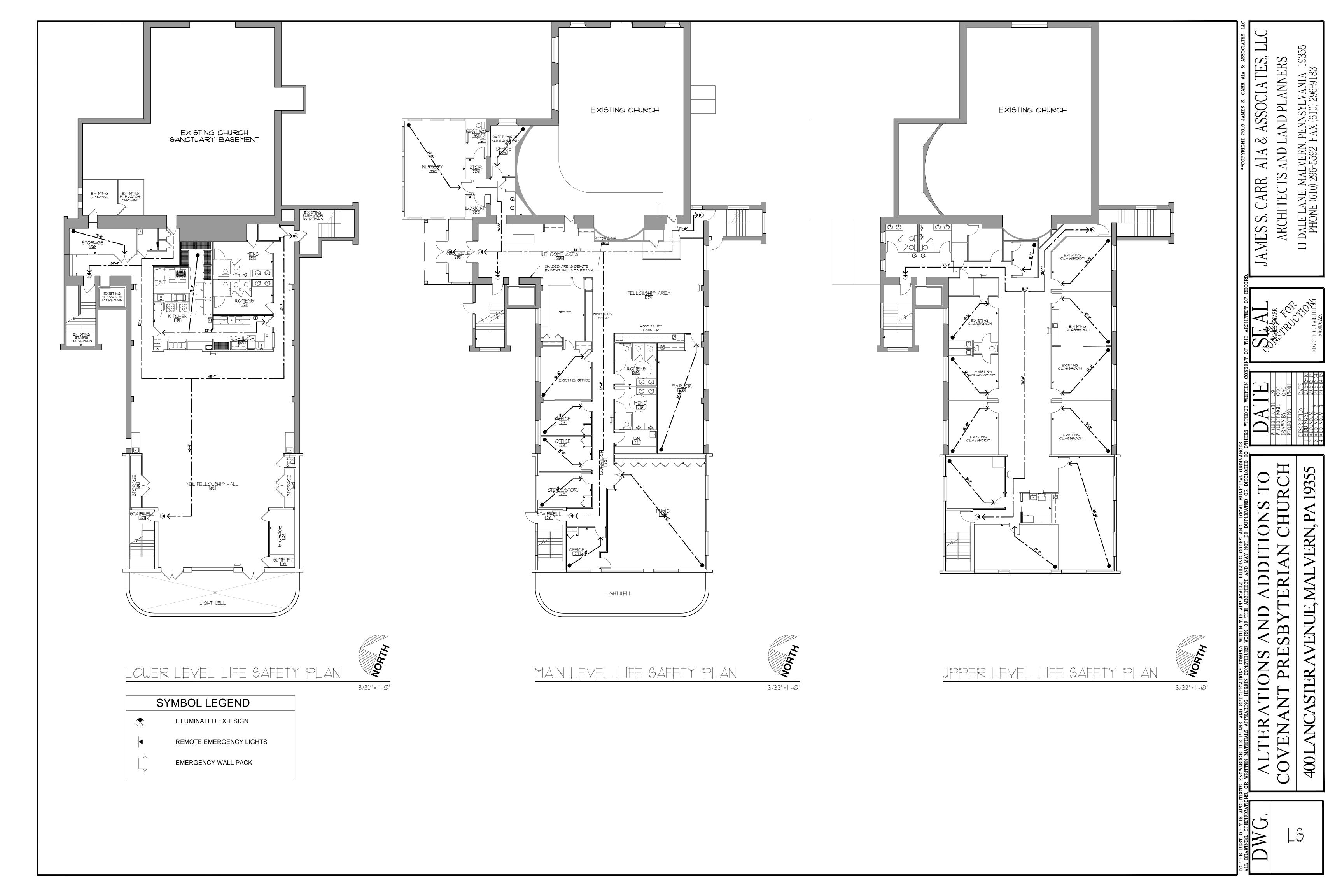
Edward B. Walsh & Associates, Inc. CIVIL ENGINEERS & SURVEYORS LIONVILLE PROFESSIONAL CENTER Fax: 610-903-0080

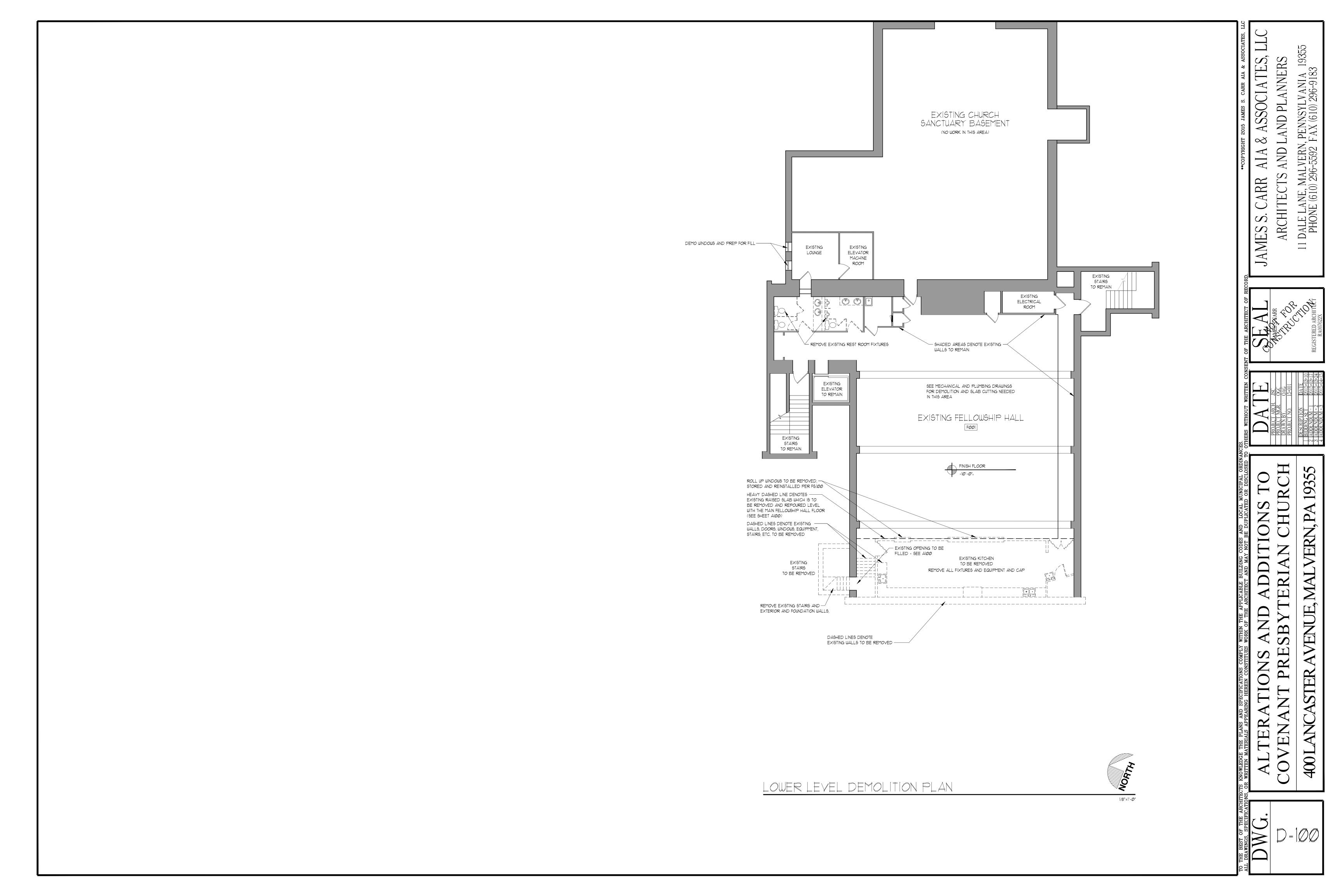
MINIMUM 2 PER BALE . PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, ND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH.
BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. COMPACTED 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP. 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART. 14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47711 USA 1-800-772-2040 CANADA 1-800-448-2040 -NON-WOVEN GEOTEXTILE CATALOG # C-125 (PERMEABLE FILTER FABRIC) **AMERICAN** GREEN

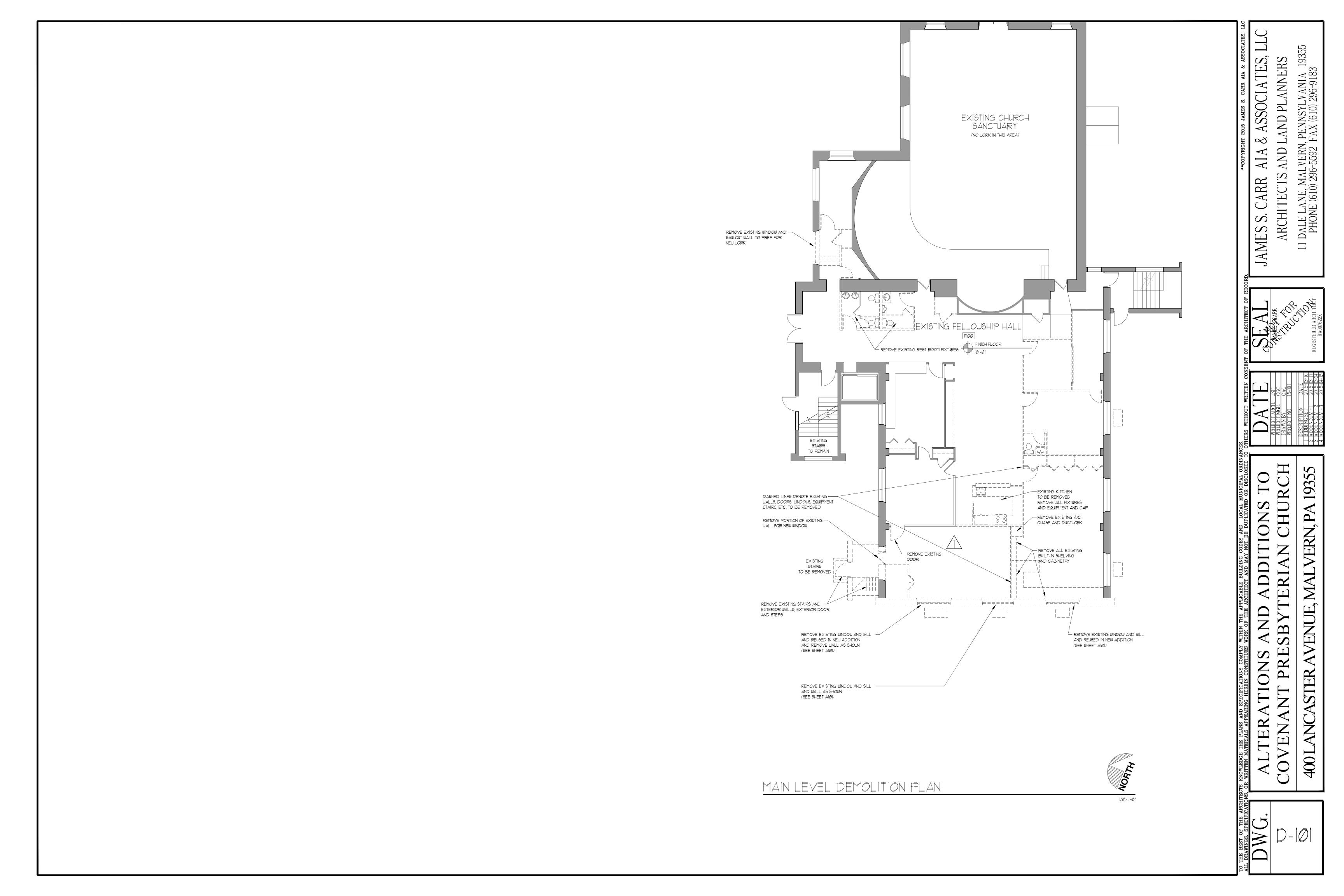
HEODOBE JOSEPH GACOM

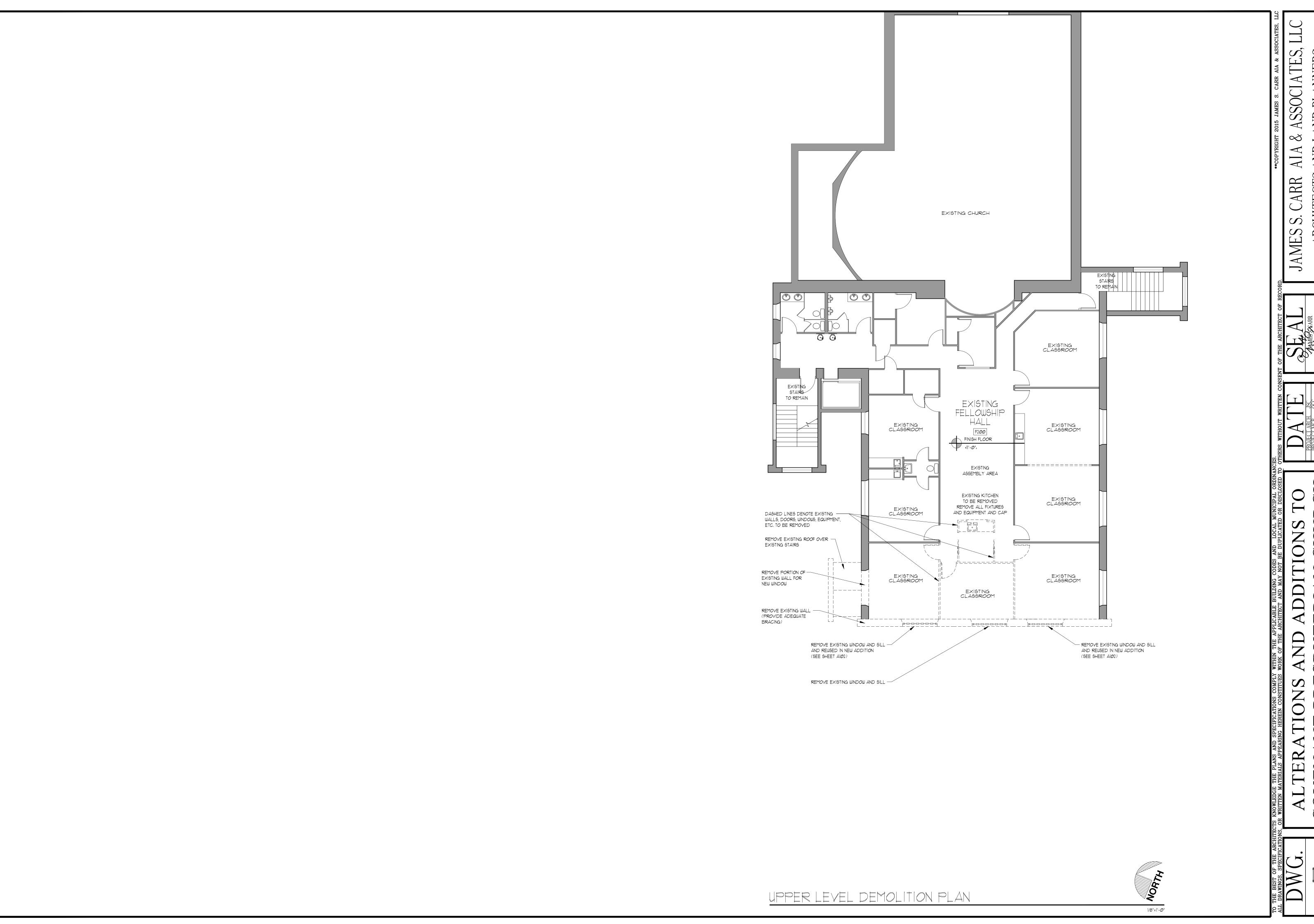
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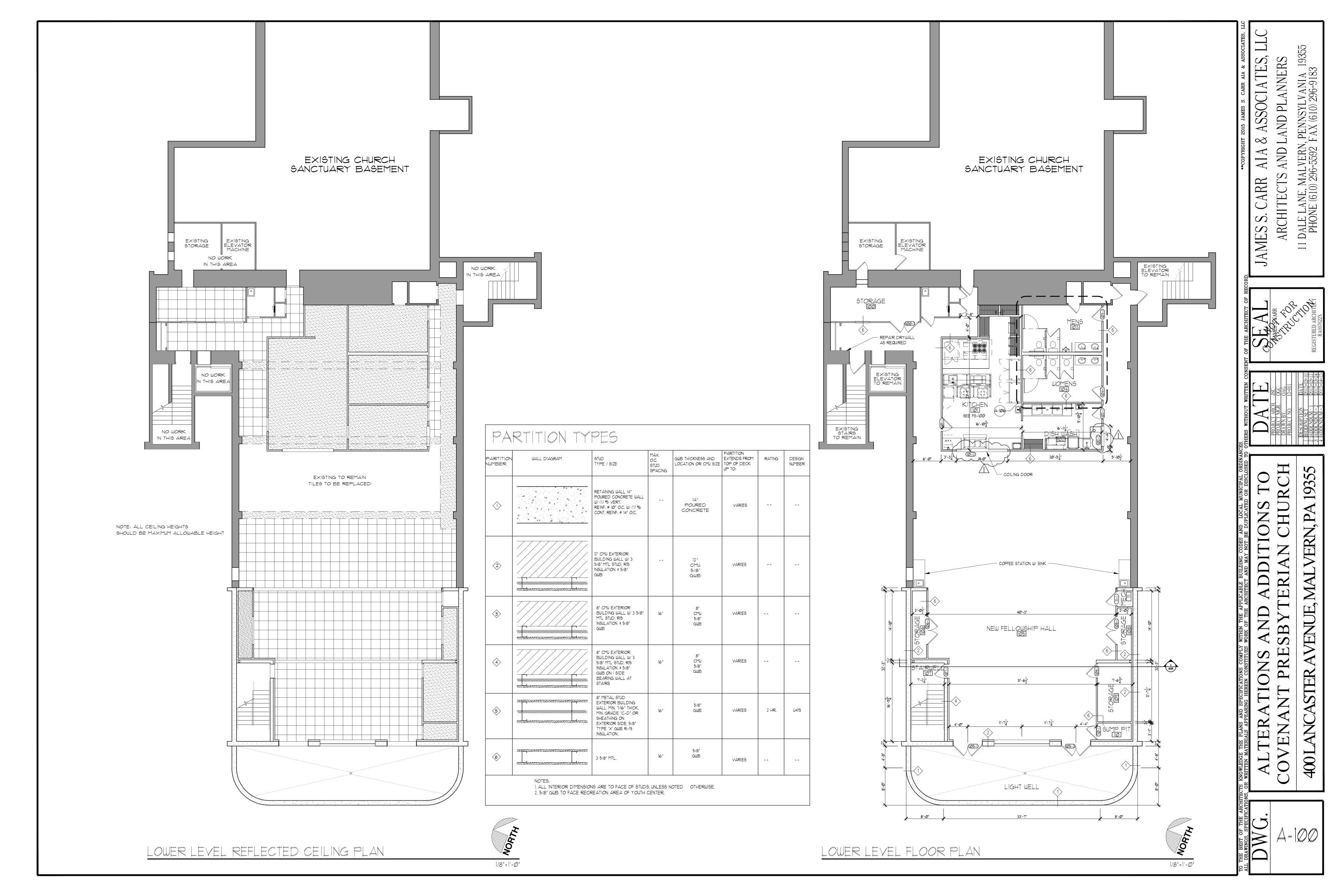
11 DALE LANE, MALVERN, PENNSYLVANIA 19355 PHONE (610) 296-5592 FAX (610) 296-9183 JAMES S. CARR AIA & ASSOCIATES, ARCHITECTS AND LAND PLANNERS

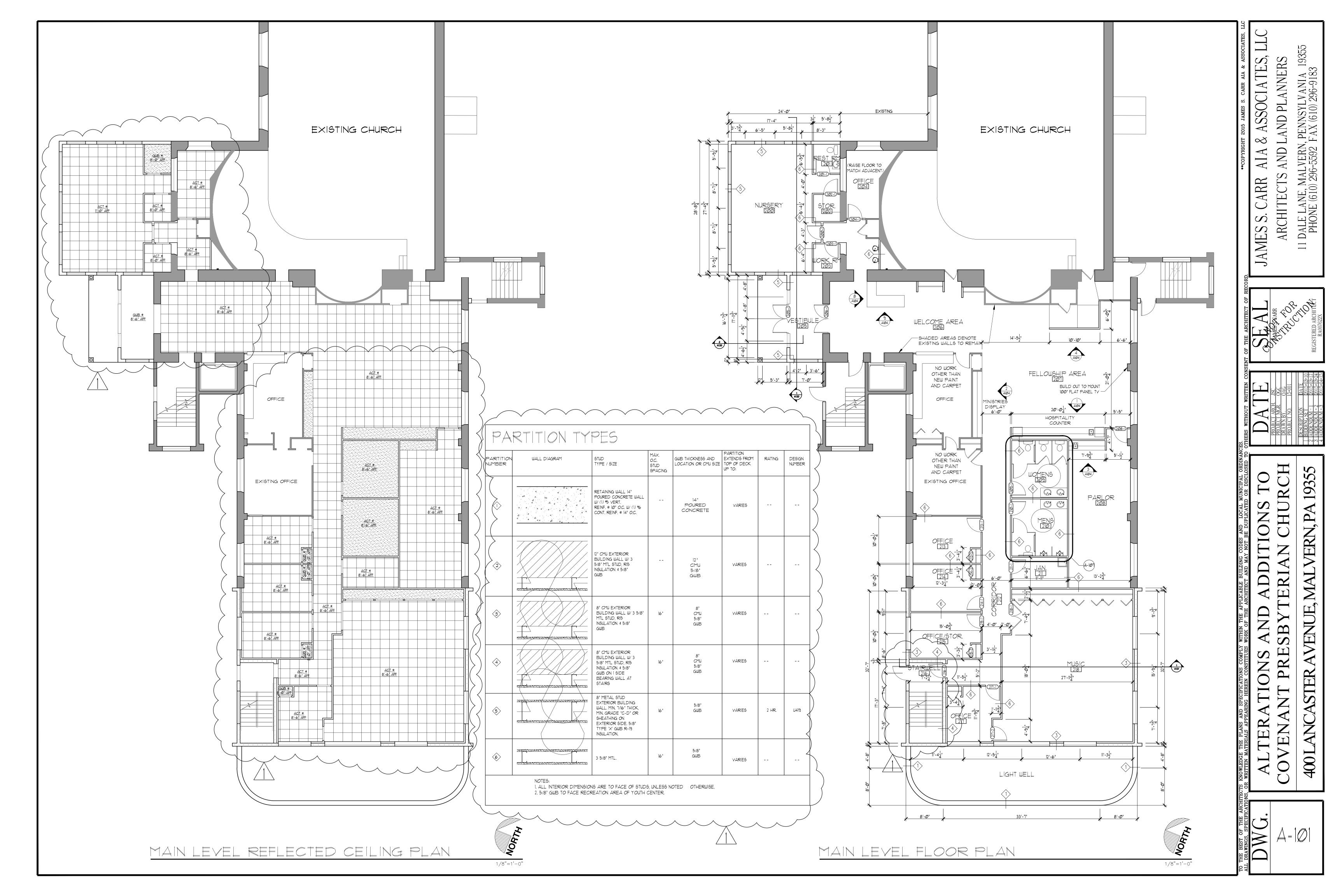
CHURCE TERIAN

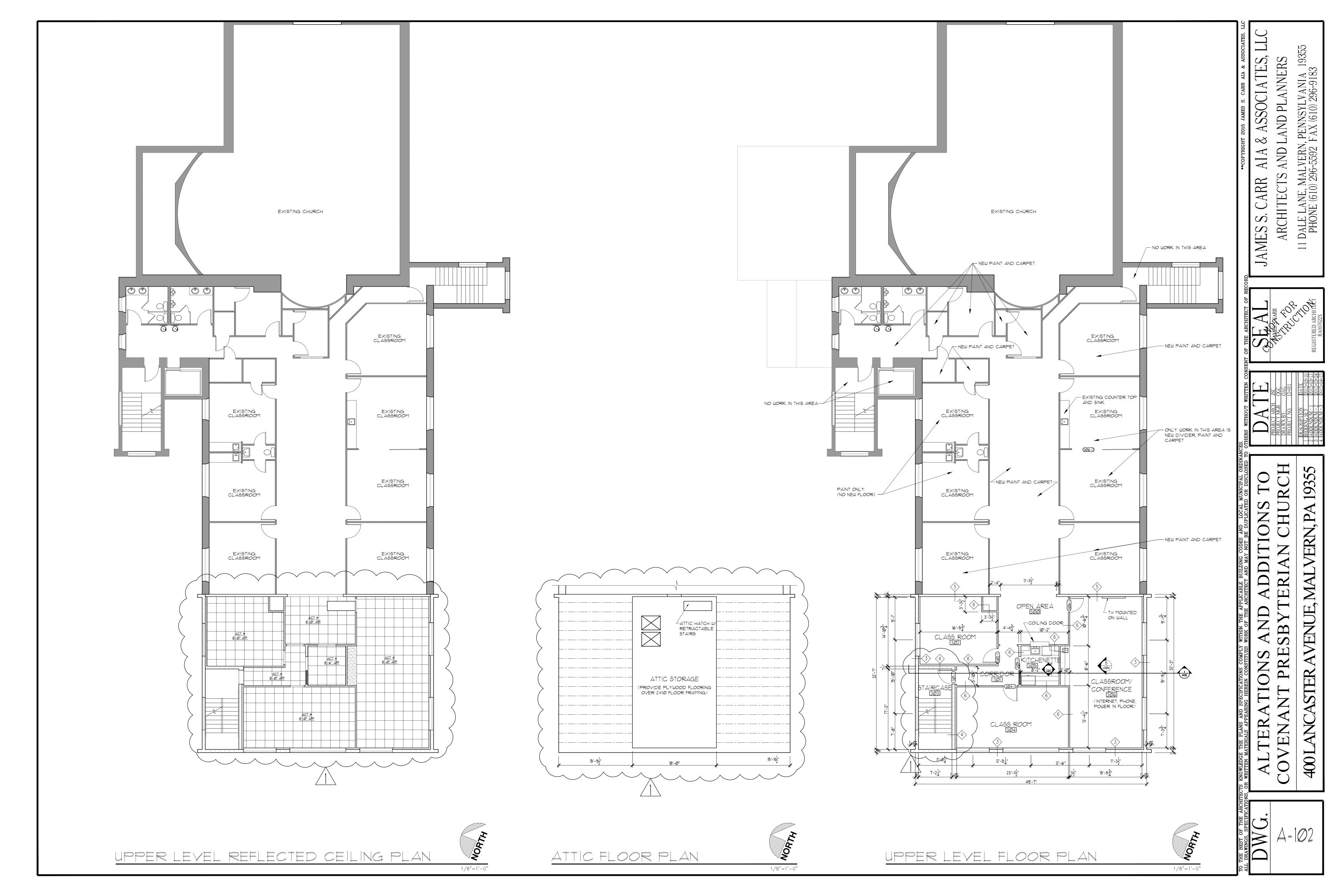
COVEN

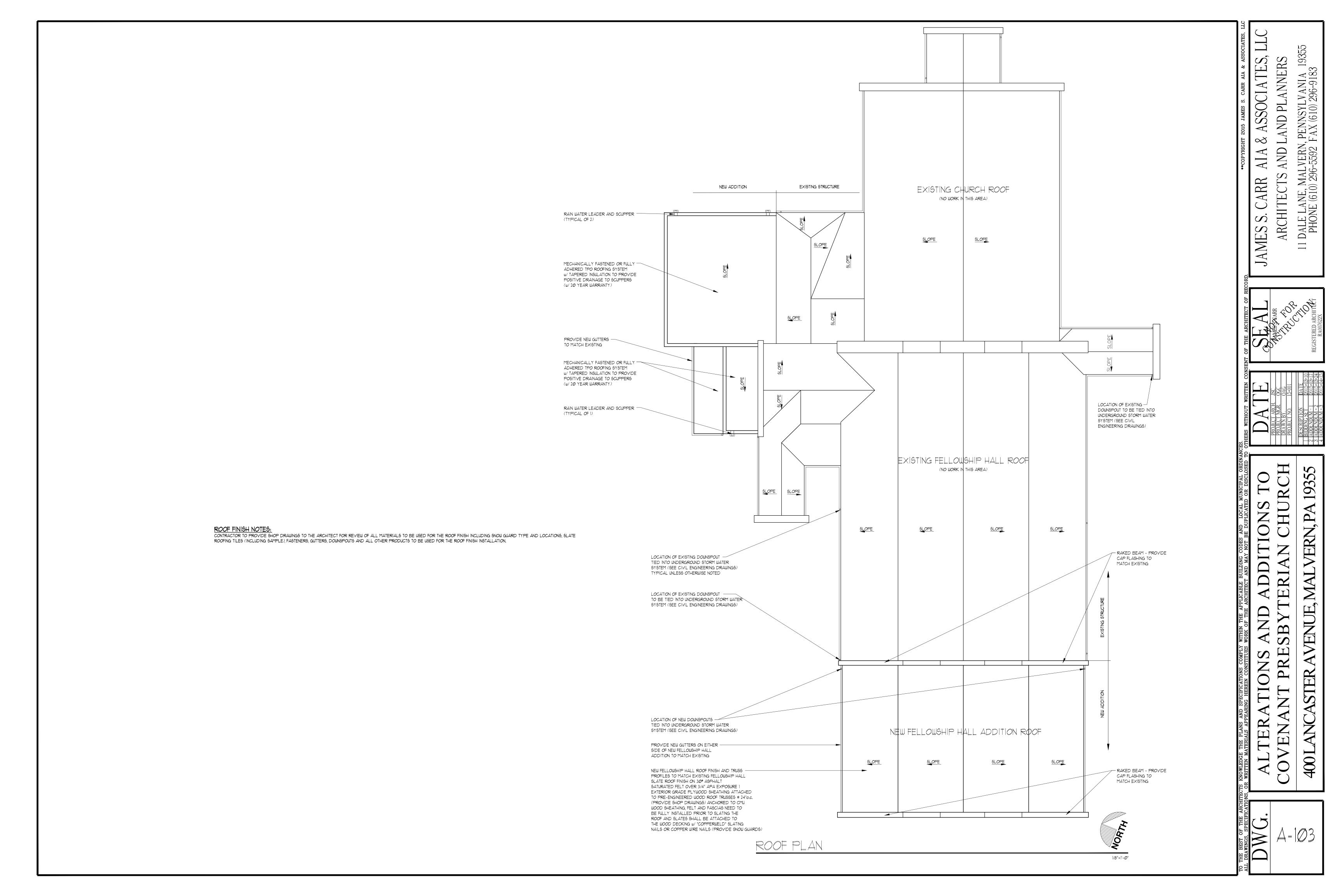


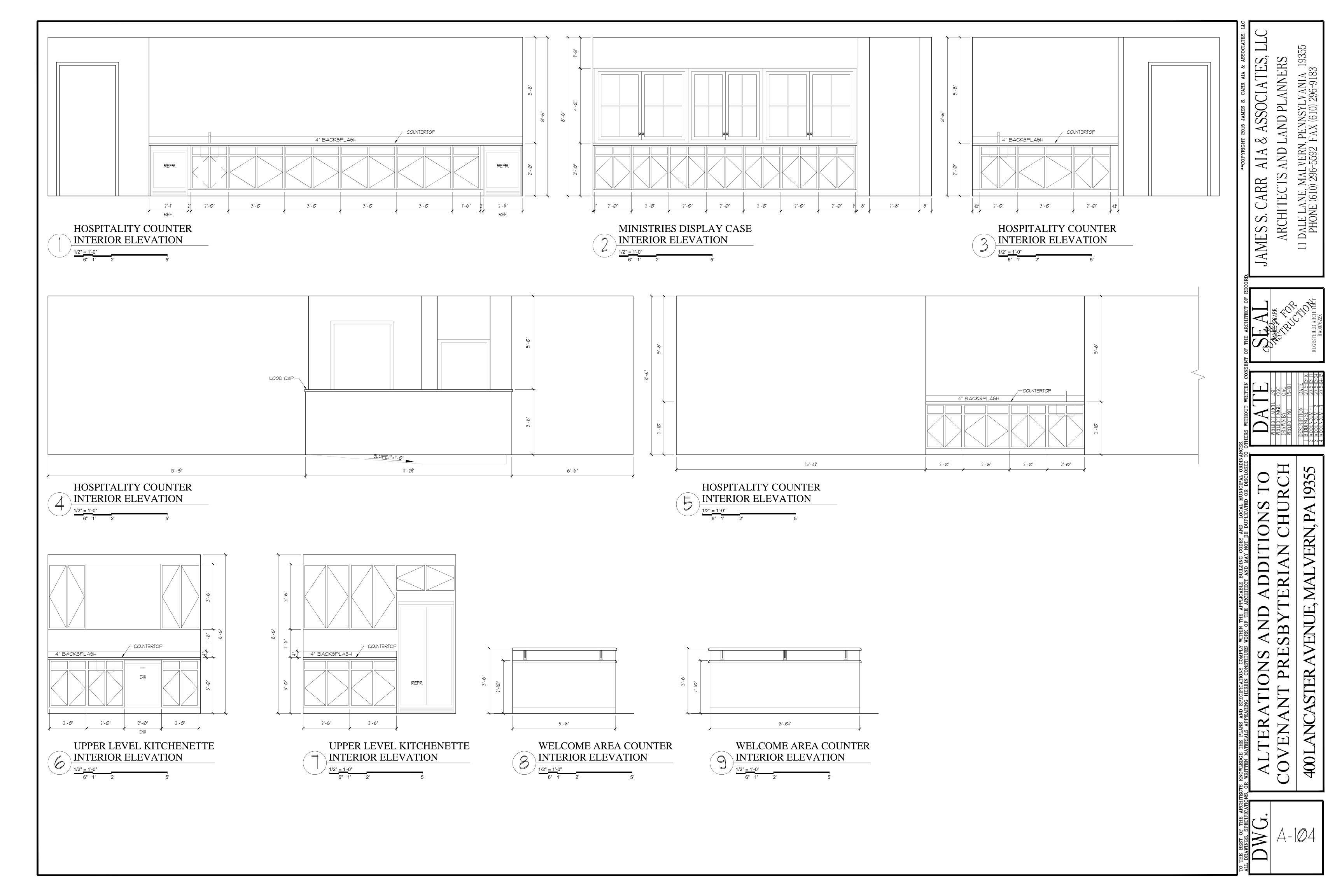
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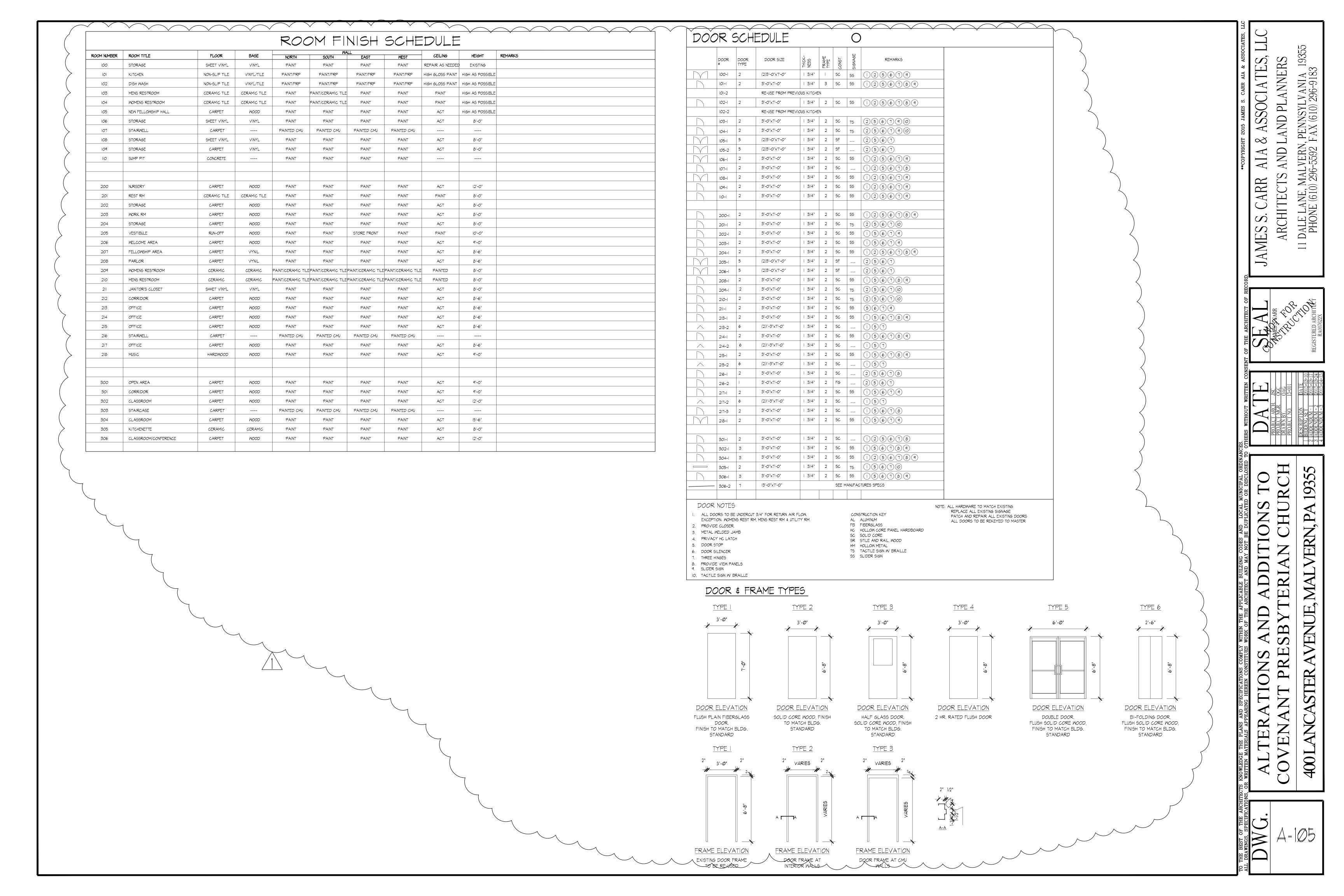


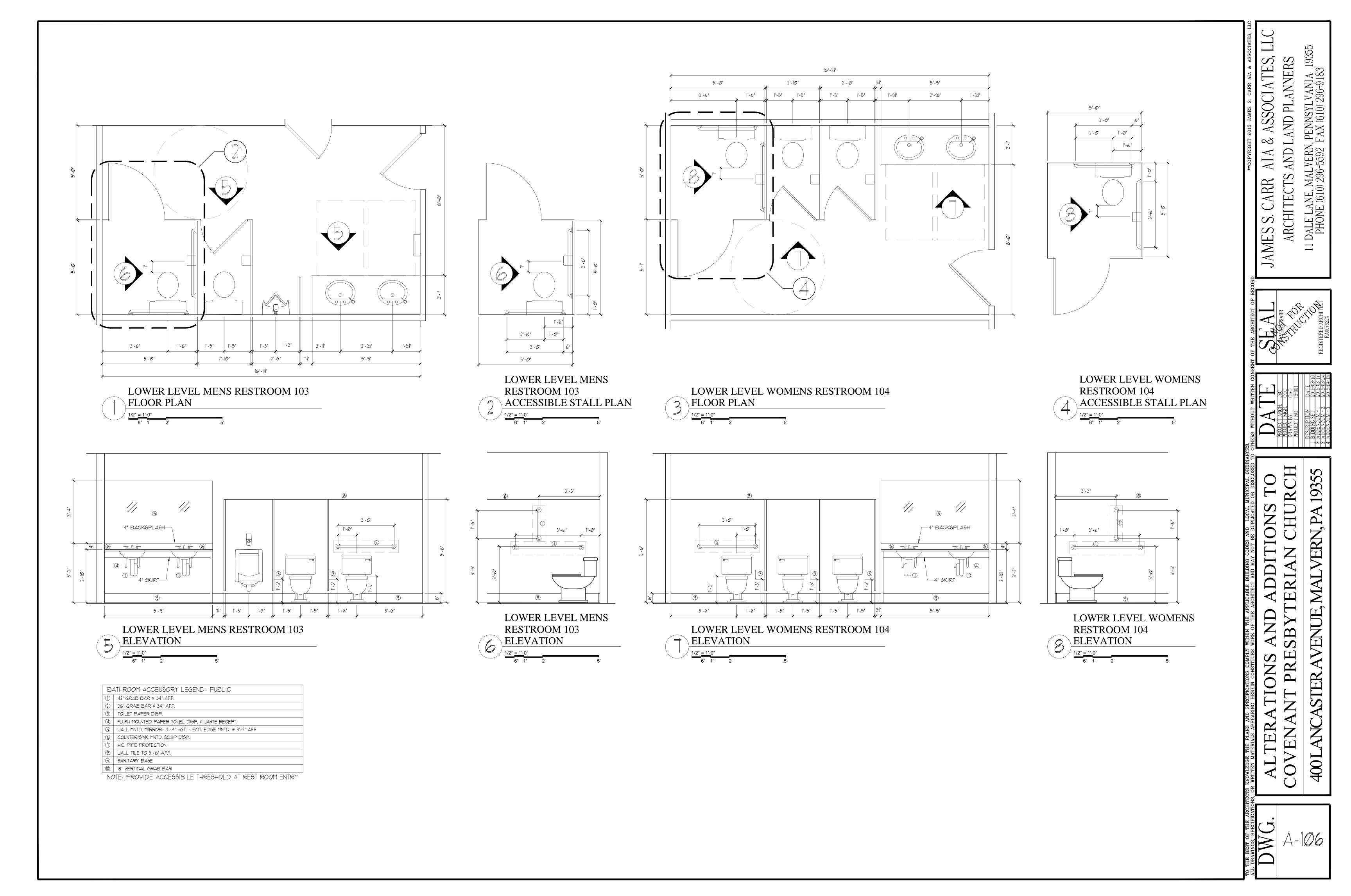


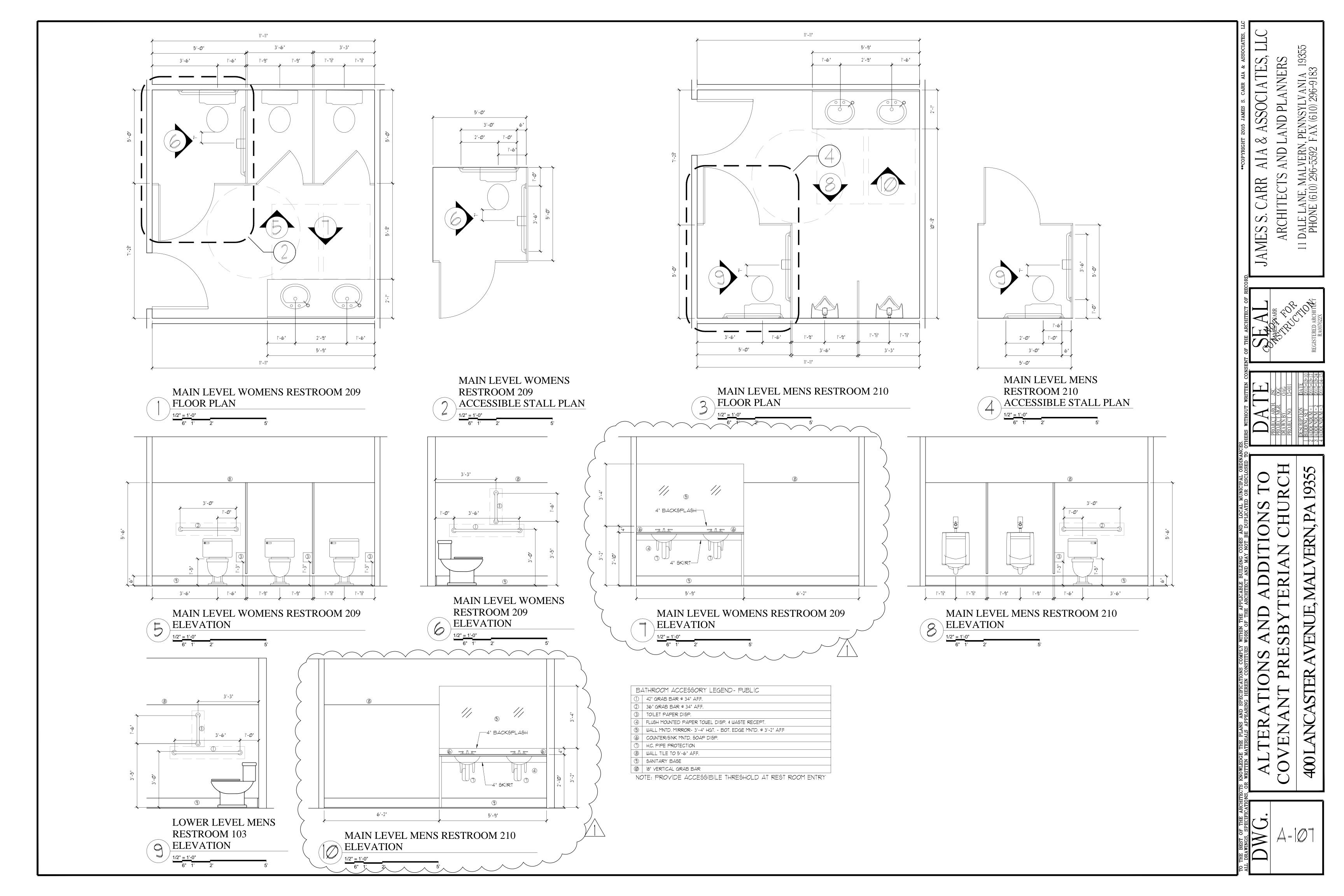


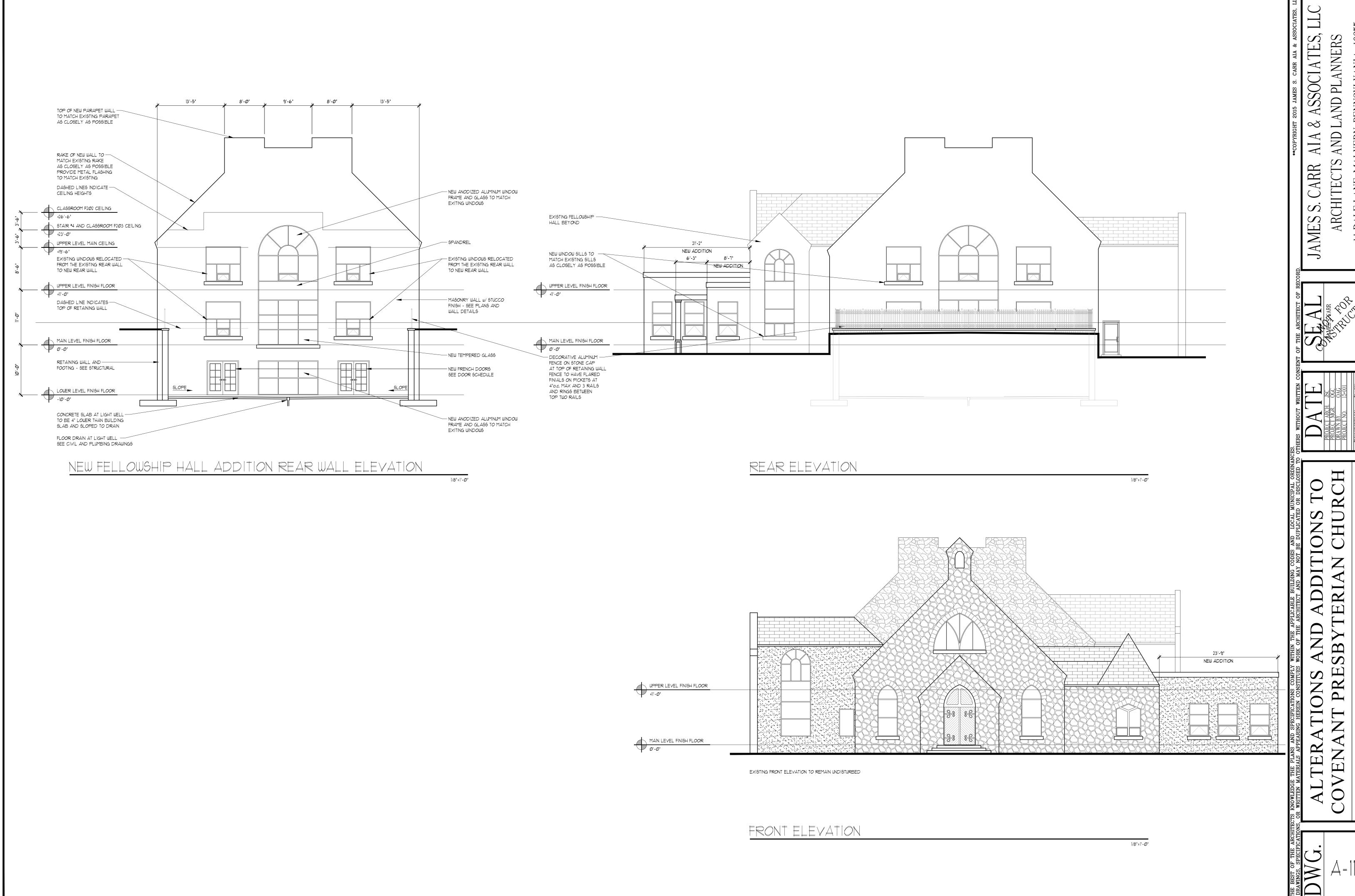




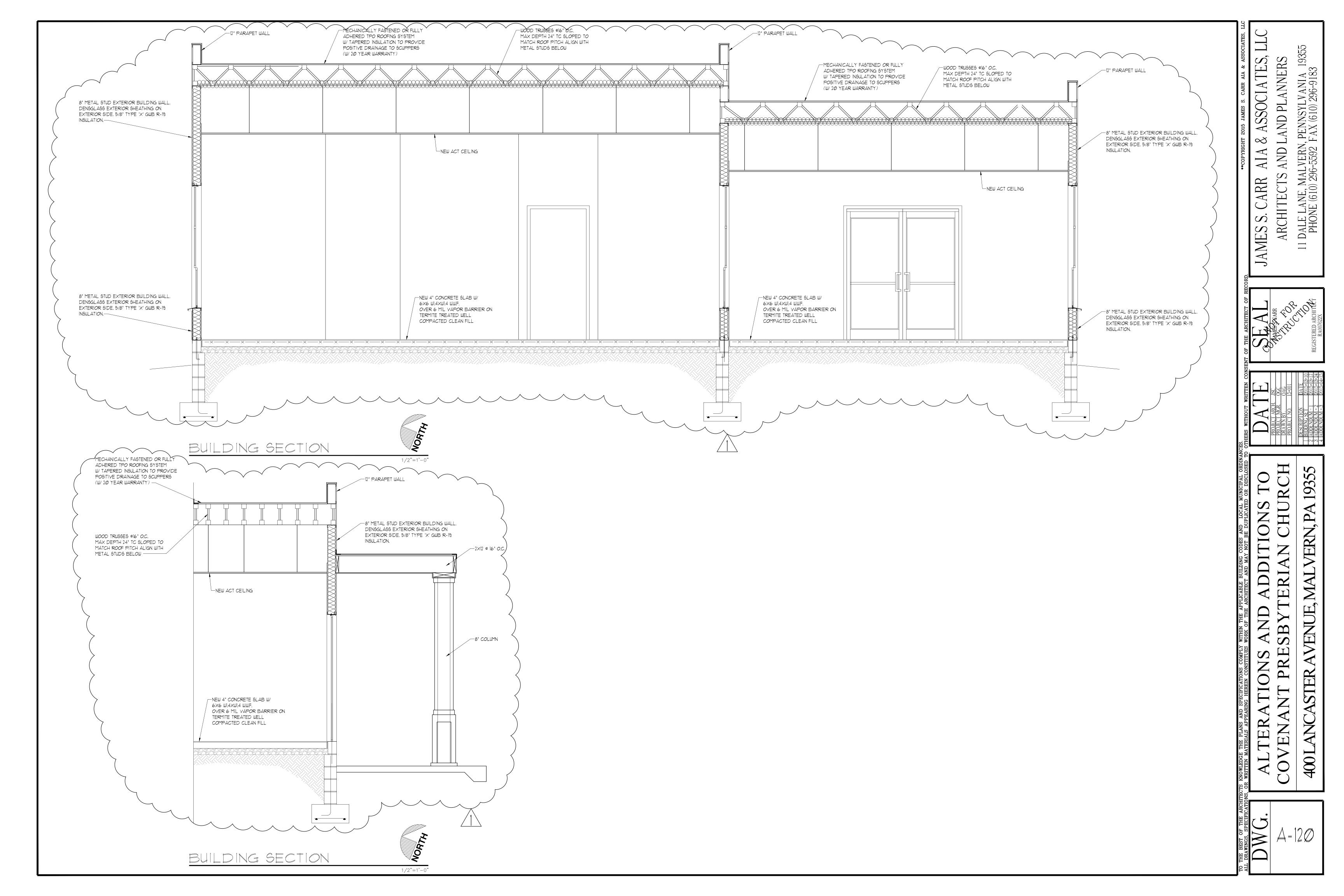


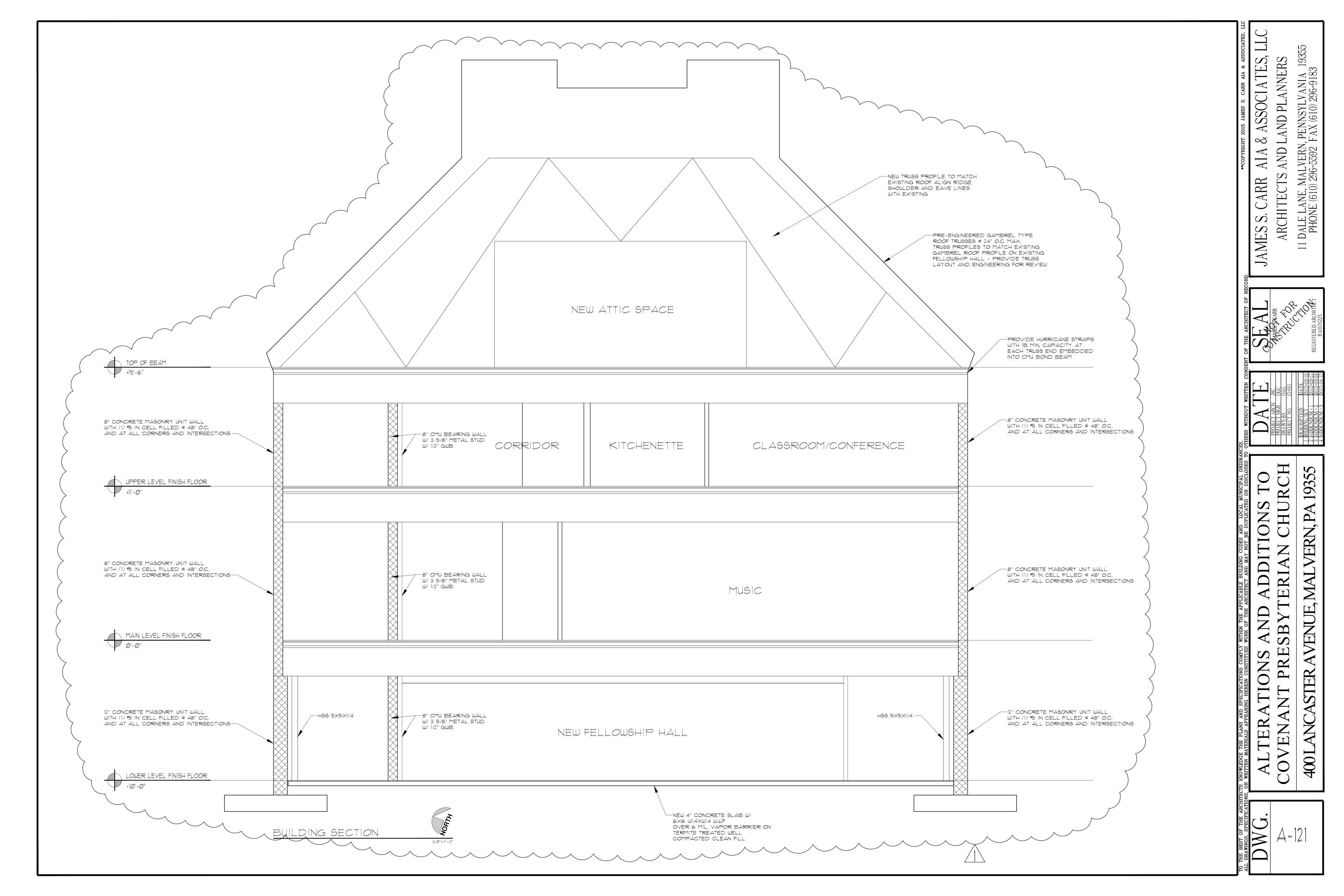


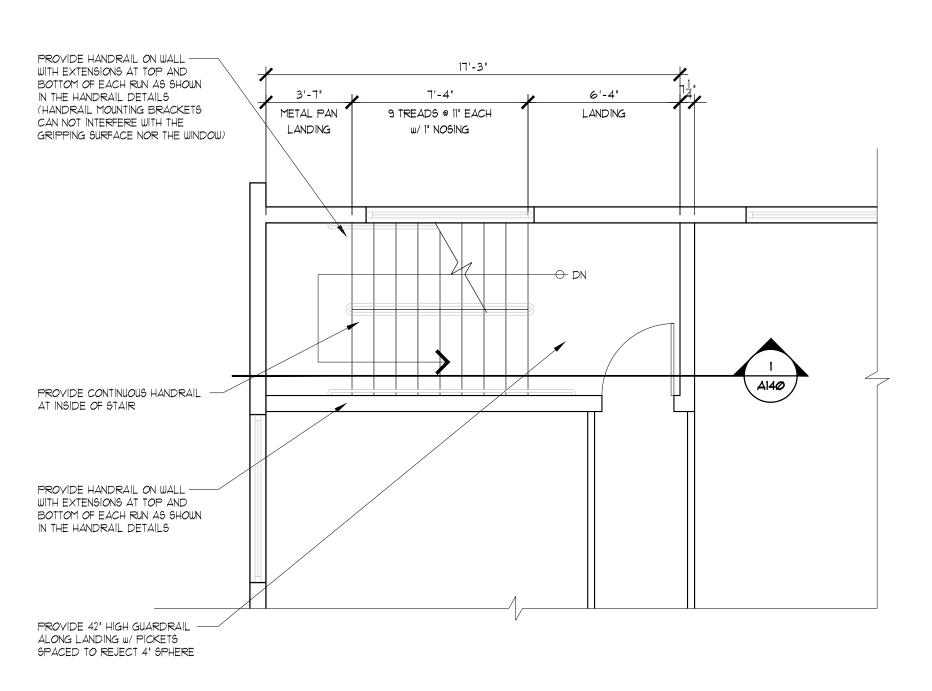








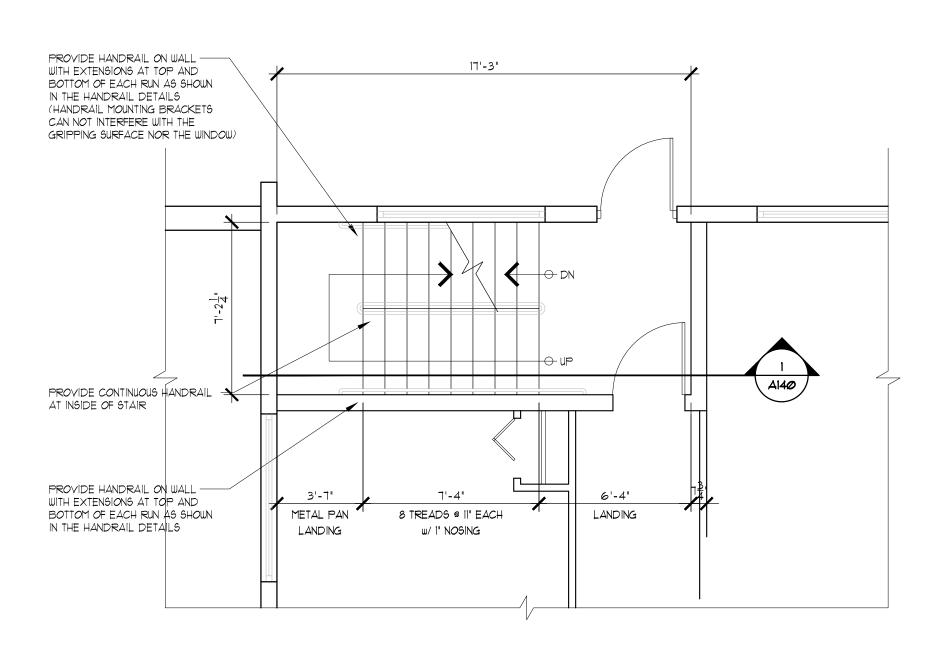




STAIR #4 UPPER LEVEL PLAN

1/4"=1'-0"

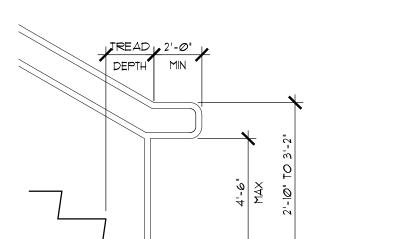
1/4"=1'-0"



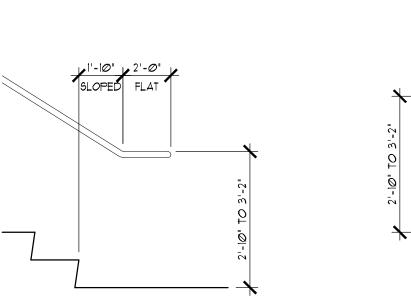
STAIR #4 MAIN LEVEL PLAN

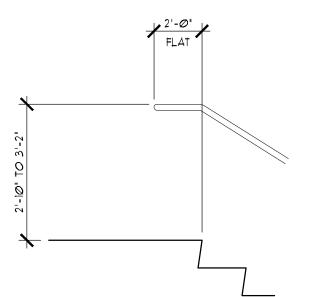
5'-9<u>3</u>" 7'-5" METAL PAN 8 TREADS @ 11" EACH LANDING PROVIDE CONTINUOUS HANDRAIL -LANDING w/ 1" NOSING PROVIDE EXTENSION AT BOTTOM AT INSIDE OF STAIR OF STAIR RUN AS PER DETAIL PROVIDE HANDRAIL ON WALL
WITH EXTENSIONS AT TOP AND
BOTTOM OF EACH RUN AS SHOWN
IN THE HANDRAIL DETAILS METAL PAN 8 TREADS @ II" EACH LANDING w/ 1" NOSING

STAIR #4 LOWER LEVEL PLAN



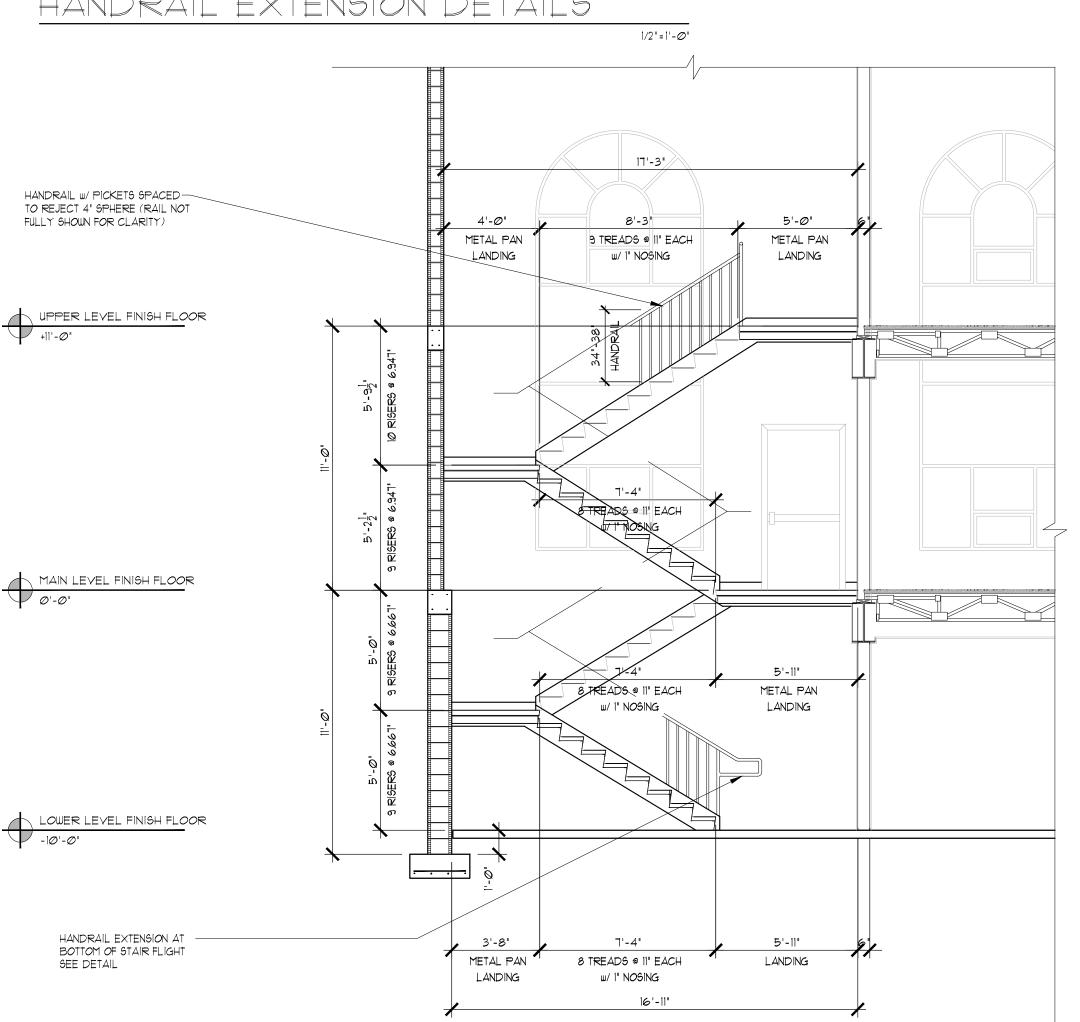
EXTENSION AT BOTTOM OF RUN EXTENSION AT TOP OF RUN FREE STANDING HANDRAIL EXTENSION DETAILS





EXTENSION AT BOTTOM OF RUN EXTENSION AT TOP OF RUN WALL MOUNTED HANDRAIL EXTENSION DETAILS

- HANDRAIL NOTES: ALL HANDRAILS TO BE FROM 1 1/4" TO 1 1/2" DIAMETER GRIPPING SURFACE AND SHALL BE UNINTERRUPTED BY NEWEL POSTS, MOUNTING BRACKETS OR OTHER OBSTRUCTIONS.
- WALL MOUNTED HANDRAILS SHALL EXTEND AT TOP AND BOTTOM OF EACH RUN AS SHOWN.
- HANDRAILS ON INSIDE OF SWITCHBACK OR DOGLEG STAIRS SHALL BE CONTINUOUS.
- HANDRAILS TO BE PROVIDED ON BOTH SIDES OF STAIRS AS SHOWN ON PLANS.



STAIR NOTES:

- -STAIR FABRICATOR TO SUBMIT SHOP DRAWINGS, INCLUDING LANDING SUPPORT, STAMPED BY A STATE LICENSED ENGENEERING, TO GENERAL CONTRACTOR FOR REVIEW BY ARCHITECT.
 -STAIR FABRICATOR AND INSTALLATION SUBCONTRACTOR TO VERIFY ALL ALL DIMENSIONS AND FLOOR HEIGHTS.
 -STAIRS TO BE PREFABRICATED METAL PAN STAIRS WITH CONC. FILLED METAL PAN TREADS AND LANDINGS AND BOLT-IN CLOSED RISER PLATES (OR APPROVED
- ALTERNATE).
 -STAIR FABRICATOR TO PROVIDED ALL MATERIALS, INCLUDING SUPPORT HARDWARE AND RAILINGS, FOR A COMPLET STAIR SYSTEM.
 -STAIR FABRICATOR TO PROVIDE STAIRS AND RAILINGS WITH MINIMUN FINISH OF ANTI-CORROSIVE PRIMER SHOP COAT (GENERAL CONTRACTOR TO DETERMINE IF FINISH COAT IS TO BE PROVIDED BY OTHERS)

NOTE: DIMENSIONS SHOWN ON PLANS ARE TO FACE OF STUDS AND MASONRY UNITS AND NOT TO FINISHES SEE SHEET A190 FOR WALL AND PARTITION TYPES AND FOR THE FINISHES ON WALLS AND PARTITIONS

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AND PLANNERS

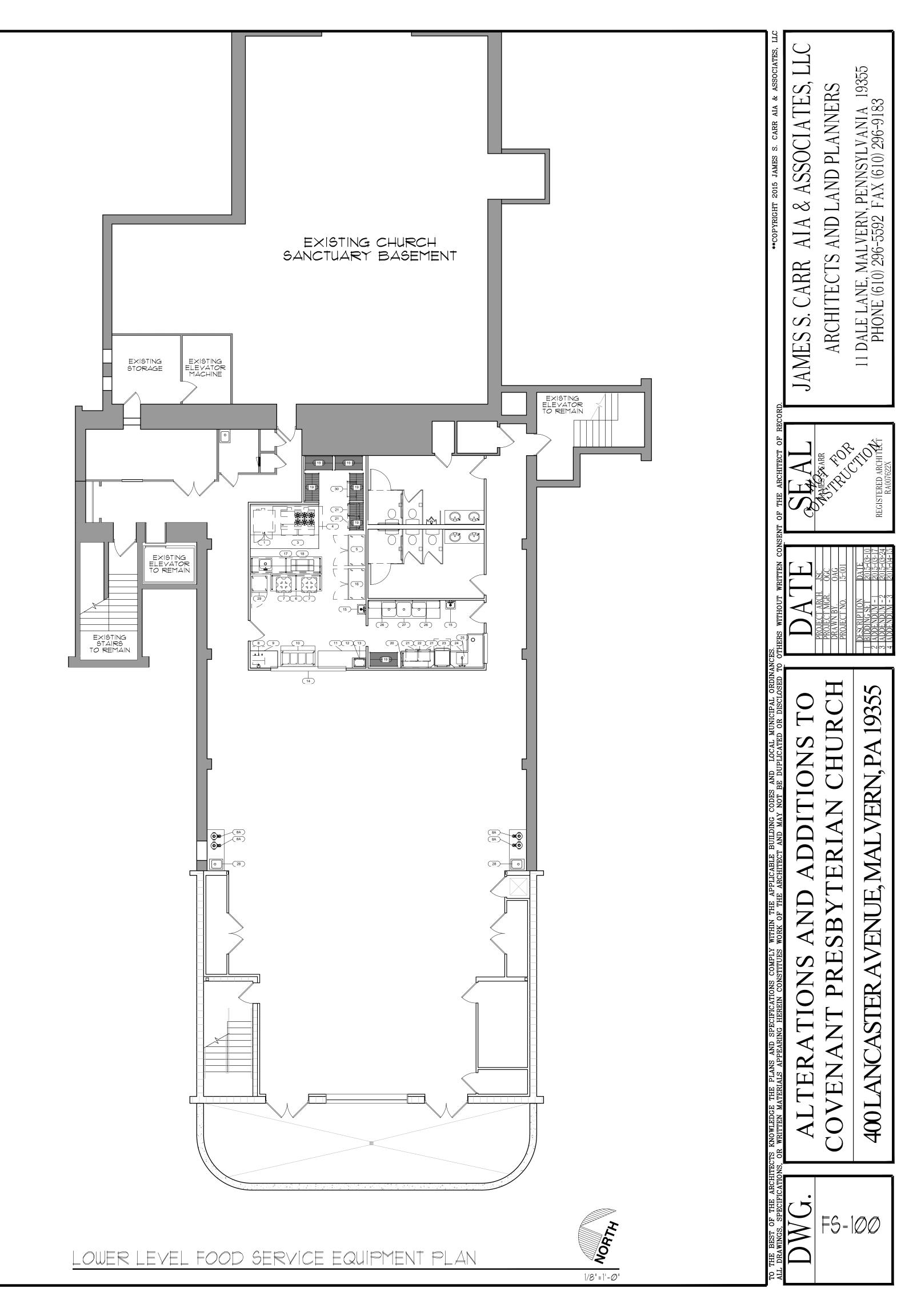
AND

ARCHITECT

DALE LANE, MALVERN, PENNSYLVANIA PHONE (610) 296-5592 FAX (610) 296-9183

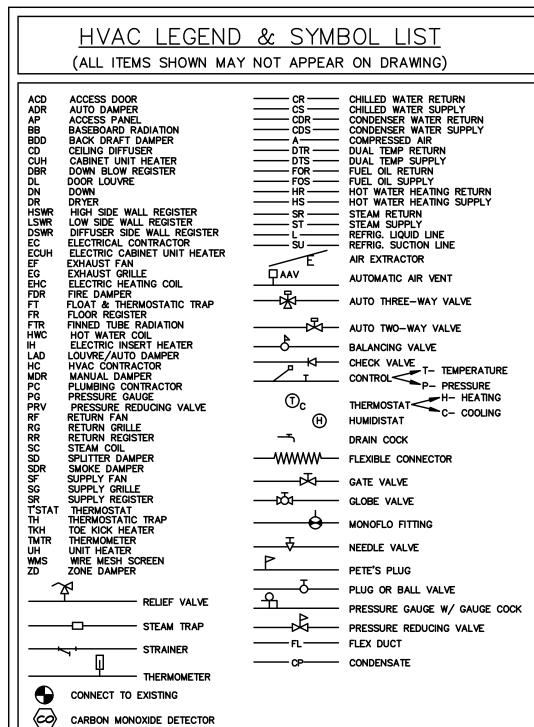
1/4"=1'-0"

TEM NUM. QTY.	DESCRIPTION	KEY	VOLTS	PHASE	AMPS	НОТ	COLD	WASTE	REMARKS
1 1	GAS CONVECTION OVEN	NEW	120		9.80A				
2	SPARE NUMBER	NEW							
3	60" RESTAURANT RANGE - GAS	NEW	120	1	3.40A				PROVIDE ALTERNATE DEDUCT FOR RELOCATING EXISTING
4 1	EXHAUST HOOD	NEW							I OR 3 PHASE, 3000 CFM EXHAUST, 2100 CFM MU AIR
5	REACH-IN SOLID SWING DOOR -IOF FREEZER	EXISTING	120	1	12.50A				
6	S/S MOBILE WORK TABLE	NEW							
7 1	DOLLY, DISHRACK	NEW							
8 1	COFFEE MAKER, INSULATED SERVER, AUTOMATIC	NEW	120	1	22.40A	3/8"			
8A 4	COFFEE SERVER	NEW							
9 1	ENCLOSED WORKTABLE W/ HINGED DOORS	NEW							
10 1	4-WELL HOT FOOD STATION	NEW	120	1	20.80A				
11 1	ENCLOSED WORKTABLE W/ HINGED DOORS	NEW							
12	SHELF, MICROWAVE	NEW							
13	MICROWAVE OVEN	NEW	120	1	13.40A				
4	SHELF, PASS-THRU	NEW							
15 2	STANDARD HAND SINK	NEW				1/2"	1/2"	1 1/2"	
16 1	REACH-IN SOLID DOOR REFRIGERATOR	NEW	120	1	9.10A				
17 1	S/S WORK TABLE W/ SINK AND SINGLE OVERSHELF	NEW							
17A I	I-COMPARTMENT COUNTERTOP DROP-IN SINK	NEW				1/2"	1/2"	1 1/2"	
18 1	CEILING MOUNTED RACK	NEW							
19 6	SHELVING, WIRE, 5-TIER, CHROME	NEW							
20	WALL MOUNTED SHELVES	NEW							
21 4	DOLLY, DISHRACK	NEW							
22	14 GA. 304 STRAIGHT CLEAN DISHTABLE	NEW							
23	VENTLESS WAREWASHER	NEW	280	3	24.90A		3/4"		I OR 3 PHASE
23A I	DRAIN WATER TEMPERING	NEW				1/2"			
23B I	BOOSTER HEATER	NEW	280	3	20.40A				
24	SOILED DISHTABLE ISLAND, LEFT HANDED, CUSTOM	NEW						1 1/2"	
25	PRE-RINSE FAUCET	NEW							
26 2	WIRE SHELF	NEW				1/2"	1/2"		
27	THREE BOWL SINK	NEW						1 1/2"	
28 2	I-COMPARTMENT COUNTERTOP DROP-IN SINK	NEW				1/2"	1/2"		
29	REACH-IN SOLID SWING DOOR REFRIGERATOR	NEW	120		7.60A				
30	CART, UTILITY	NEW							

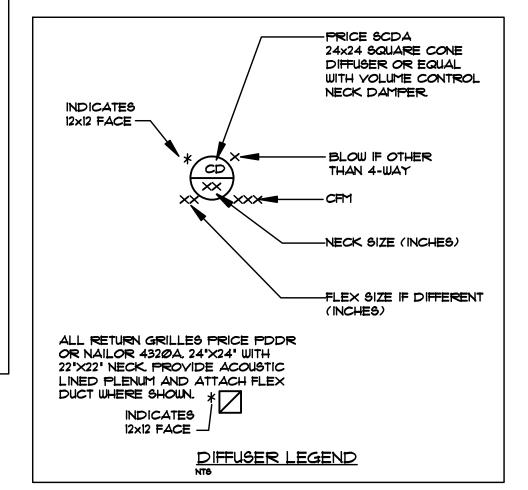


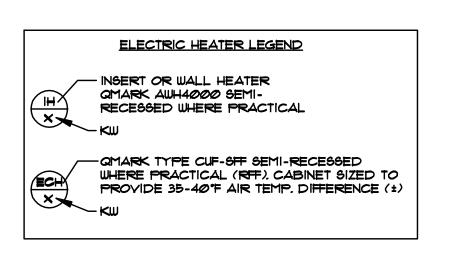
MECHANICAL & PLUMBING NOTES

- I. CONTRACTORS BID ACKNOWLEDGES THAT THE DOCUMENTS HAVE BEEN REVIEWED AND NO AMBIGUITIES, ERRORS OR CODE VIOLATIONS HAVE BEEN FOUND AND THAT THE BID IS BASED EXCLUSIVELY ON THE DOCUMENTS AND THAT REVIEW.
- 2. ALL WORK TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. MOUNT ALL DEVICES PER ADA AS REQUIRED.
- 3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND APPROVED BY ASME, AGA, ANSI, UL OR SIMILAR AUTHORITIES AS APPLICABLE.
- 4. PROCURE ALL NECESSARY PERMITS, INSPECTIONS AND LICENSES AND PAY ALL REQUIRED FEES. PROVIDE MANUFACTURERS EXTENDED WARRANTIES WHERE AVAILABLE.
- 5. ON COMPLETION OF WORK, THE ENTIRE SYSTEM SHALL BE COMPLETELY OPERATIVE AND PROPERLY ADJUSTED, FREE FROM EXCESSIVE NOISE AND VIBRATION. PROVIDE BALANCE REPORTS TO OWNER & ENGINEER.
- 6. TESTS SHALL BE MADE AS REQUIRED, FURNISH ALL LABOR, MATERIALS AND INSTRUMENTS.
- 7. SUBMIT A WRITTEN STATEMENT TO THE OWNER GUARANTEEING ALL EQUIPMENT AND SYSTEMS AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. EXTENDED WARRANTIES SHALL BE GIVEN WHERE AVAILABLE. UPON WRITTEN NOTICE AND AT NO EXPENSE TO THE OWNER, PROMPTLY REPAIR ALL DEFECTIVE MATERIALS.
- 8. VERIFY ELECTRICAL CHARACTERISTICS WITH THE ELECTRICAL CONTRACTOR
- 9. CONTRACT DRAWINGS ARE DIAGRAMMATIC, CONTRACTOR SHALL APPLY FOR DETAILED INFORMATION REGULARDING THE LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN. ITEMS IMPROPERLY PLACED SHALL BE RELOCATED AND REINSTALLED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. DO NOT SCALE DWG FOR LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
- 10. VERIFY ALL CONSTRUCTION DETAILS BEFORE ORDERING EQUIPMENT AND AIR DEVICES AND PROVIDE SAME COMPATIBLE WITH STRUCTURE AND CEILING CONSTRUCTION. PROVIDE FIRE DAMPERS AT ALL OPENINGS IN FIRE RATED CEILINGS, WALL, ETC.
- II. DO ALL EXCAYATION AND BACKFILL NECESSARY FOR THE WORK TO 5'-0" OUTSIDE THE
- 12. DO ALL CUTTING AND PATCHING REQUIRED INCLUDING FIRE STOPPING AT ALL FIRE DIVISIONS.
- 13. ALL DUCTWORK SHALL CONFORM WITH SMACNA DUCT MANUALS, ALL STATE AND LOCAL CODES AND SHALL BE GALYANIZED SHEET METAL. DUCT SIZES ON PLAN ARE INTERIOR CLEAR DIMENSIONS. ALL DUCTS INSULATED WITH MINIMUM R6, R8 WHERE NOT IN CONDITIONED SPACE. FLEX DUCT SHALL BE UL RATED AND COMPATIBLE WITH STRUCTURE. NO PRESSURE SENSITIVE TAPE PERMITTED. PROVIDE A MANUAL DAMPER AT EACH OUTLET OR INLET. MASTIC DUCT SEALING REQUIRED.
- 14. ALL DUCT FITTINGS SHALL BE RADIUS FITTING WITH INSIDE RADIUS EQUAL TO THE DUCT WIDTH OR SQUARE FITTINGS WITH DOUBLE THICKNESS TURNING VANES.
- 15. <u>ALL</u> WATER PIPING TYPE "L" COPPER TUBE <u>INSULATED</u> WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ALL PURPOSE JACKET AS LOCALLY APPROVED. PROVIDE GATE OR BALL VALVES WHERE REQUIRED FOR SERVICE. CPVC PIPING OR PEX TUBING MAY BE ACCEPTABLE SUBMIT FOR APPROVAL
- 16. ALL SOIL WASTE, DRAIN AND STORM WATER PIPING TO BE STANDARD WEIGHT CAST IRON BELL AND SPIGOT BELOW GRADE, NO.-HUB ABOYE. AT CONTRACTORS OPTION PYC(ASTM DI185, D2466, D2564) MAY BE USED IF LOCALLY APPROVED, BUT CONTRACTOR SHALL PROVIDE RATED SHAFTS OR INTUMESCENT FITTINGS AS
- 17. PROVIDE ALL PIPING, DUCT AND EQUIPMENT MOUNTING ACCESSORIES REQUIRED FOR THE WORK INCLUDING MISCELLANEOUS STRUCTURAL STEEL.
- 18. PROVIDE VIBRATION ISOLATION FOR ALL MOTORIZED EQUIPMENT.
- 19. DRAWINGS MAY NOT SHOW ALL OFFSETS, VENTS, BRANCHES, ETC. BUT THESE SHALL BE PROVIDED AS REQUIRED TO COMPLETE WORK.
- 20. CONTRACTOR SHALL SUBMIT ALL SUGGESTED CHANGES FOR APPROVAL BEFORE PROCEEDING OR HE MAY BE REQUIRED TO REMOVE, ALTER AND/OR REPLACE THE WORK IN QUESTION AT
- 21. PROVIDE ELECTROCHEMICAL INSULATING FITTINGS WHERE DISSIMILAR METALS ARE JOINED.
- 22. NO ASBESTOS OR LEAD CONTAINING MATERIALS MAY BE USED.
- 23. ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH IFGC 2009, NFPA 54 AND LOCAL REQUIREMENTS.
- 24. EQUIPMENT, MATERIALS, FIXTURES, ETC. ARE SPECIFIED BY MANUFACTURER. SUBSTITUTIONS EQUAL IN QUALITY WILL BE ACCEPTABLE BUT MUST BE SUBMITTED FOR APPROVAL.



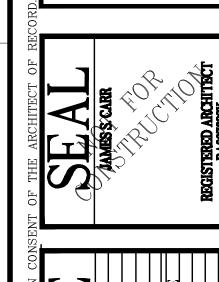
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VAC LEGEND	& SYME	BOL LIST								E BASED ON THE FOLLOWIN NO QUALITY MAY BE SUBI		
L ITEMS SHOWN MAY	NOT APPEAR	ON DRAWING)		FA	N SC	SHE	DU	LE		F Exhaust SF Supply F Return or Relief		P
SS DOOR DAMPER	CR	CHILLED WATER RETURN CHILLED WATER SUPPLY	NO	CFM	S.P. INCHS	WATTS OR HF		1 TYP	E	REMARKS		
SS PANEL BOARD RADIATION DRAFT DAMPER	CDR	CONDENSER WATER RETURN CONDENSER WATER SUPPLY COMPRESSED AIR	1	250	Ø.25	62 W	990	CLG	*- W/	NASONIC FV-3ØVQ3 RADIATION DAMPER AT R	ATED .	ASSEMBLIES
IG DIFFUSER	—— ĎTR ——	DUAL TEMP RETURN	2	80	Ø.1	15 W	829	CLG		NASONIC FY-08YQ5 RADIATION DAMPER AT R	ATED /	ASSEMBLIES
IET UNIT HEATER BLOW REGISTER LOUVRE	— DTS — FOR — FOS — HR — HS — HS —	DUAL TEMP SUPPLY FUEL OIL RETURN FUEL OIL SUPPLY HOT WATER HEATING RETURN HOT WATER HEATING SUPPLY	*	ENER	GY STA	R RAT	ED	•	100		7120	
SIDE WALL REGISTER SIDE WALL REGISTER ISER SIDE WALL REGISTER RICAL CONTRACTOR	SR —— ST —— L —— SU —— SU ——	STEAM RETURN STEAM SUPPLY REFRIG. LIQUID LINE BEERIG. SUCTION LINE		G/	4S F	UR	NΑ	CE	<u> </u>	CHEDULE	;	POA CFM
IRIC CABINET UNIT HEATER JST FAN JST GRILLE	QAAV	REFRIG. SUCTION LINE AIR EXTRACTOR AUTOMATIC AIR VENT	No	MBI NPU		O.A.	E.S.P.	₽₽	AFUE		F	REMARKS
TRIC HEATING COIL DAMPER & THERMOSTATIC TRAP		AUTO THREE-WAY VALVE	2	66	1000	<u> </u>	08	1/2	95%	LENNOX EL195UHØ7ØXE36	B GAE	FURNACE
R REGISTER D TUBE RADIATION WATER COIL	─ ──₩	AUTO TWO-WAY VALVE	5	110	2000	-	08	1	95%	LENNOX EL195UH110XE600	GAS	FURNACE
TRIC INSERT HEATER RE/AUTO DAMPER		BALANCING VALVE	5	H 110	2000	-	0.8	1	95%	LENNOX EL195UH110XE600	GAS	FURNACE
CONTRACTOR AL DAMPER BING CONTRACTOR		CHECK VALVE T- TEMPERATURE CONTROL P- PRESSURE	* 4	LL UNI	TS RATE	D FOR	0'0	R 1" C	LEAR	ANCE, ALL UNITS W/ FILTER	}	
SURE GAUGE SURE REDUCING VALVE RN FAN RN GRILLE	① _c (H)	THERMOSTAT C- COOLING HUMIDISTAT		AIR	2-CO	OLEI) C	ONI	DEN	SING UNIT SCHEE	>ULE	
RN REGISTER 1 COIL		DRAIN COCK) REFI	MBH		<u> </u>			REMARKS		
TER DAMPER E DAMPER LY FAN		FLEXIBLE CONNECTOR		5,11	AR	+	+	1				
Y GRILLE Y REGISTER	—₩——	GATE VALVE	2	R416	DA 23.0	15.1	95	· LE	NNOX	XC14-024 W/ CH23-31 CO	<u> </u>	<u>HORIZONTAL</u>
MOSTAT MOSTATIC TRAP		GLOBE VALVE MONOFLO FITTING	5	R414	0A 58.5	14.5	95	· LE	NNOX	XC14-060 W/ CX34-62C	COIL	<u>UP FLOW</u>
(ICK HEATER MOMETER HEATER		NEEDLE VALVE	5	H R416	0A 58.0	14.2	95	· LE	NNOX	XC14-060 W/ CH33-49 C	OIL	<u>HORIZONTAL</u>
MESH SCREEN DAMPER	<u>P</u>	PETE'S PLUG	•	PROVI	DE POL	YETHY	LENE	MOUN	NTING	BASE FOR ALL UNITS		
RELIEF VALVE	<u>♣</u>	PLUG OR BALL VALVE PRESSURE GAUGE W/ GAUGE COCK										
STEAM TRAP	─ ♣	PRESSURE REDUCING VALVE										
STRAINER	——FL——	FLEX DUCT										
∐ THERMOMETER	—— CP——	CONDENSATE										
IFCT TO FXISTING												





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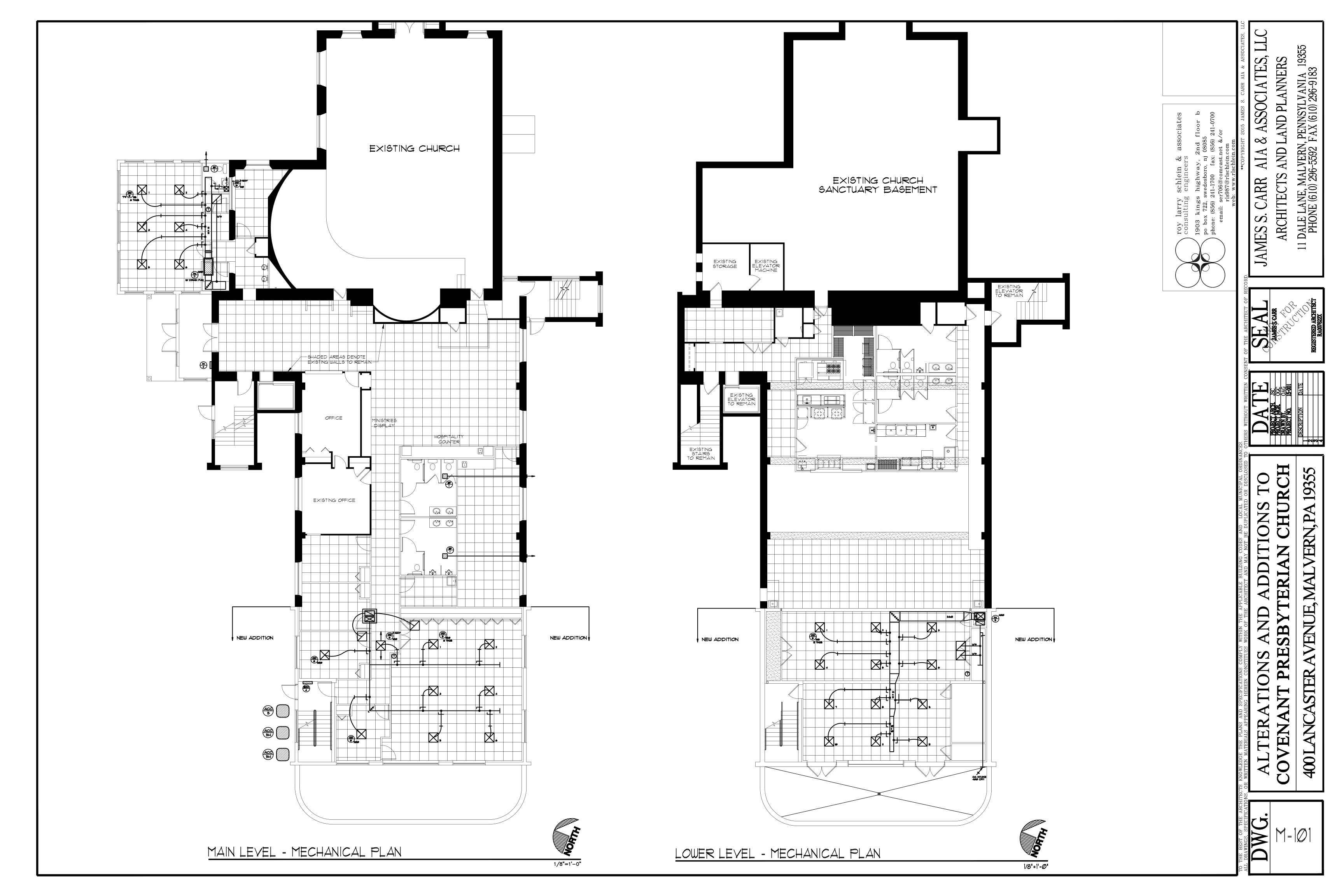
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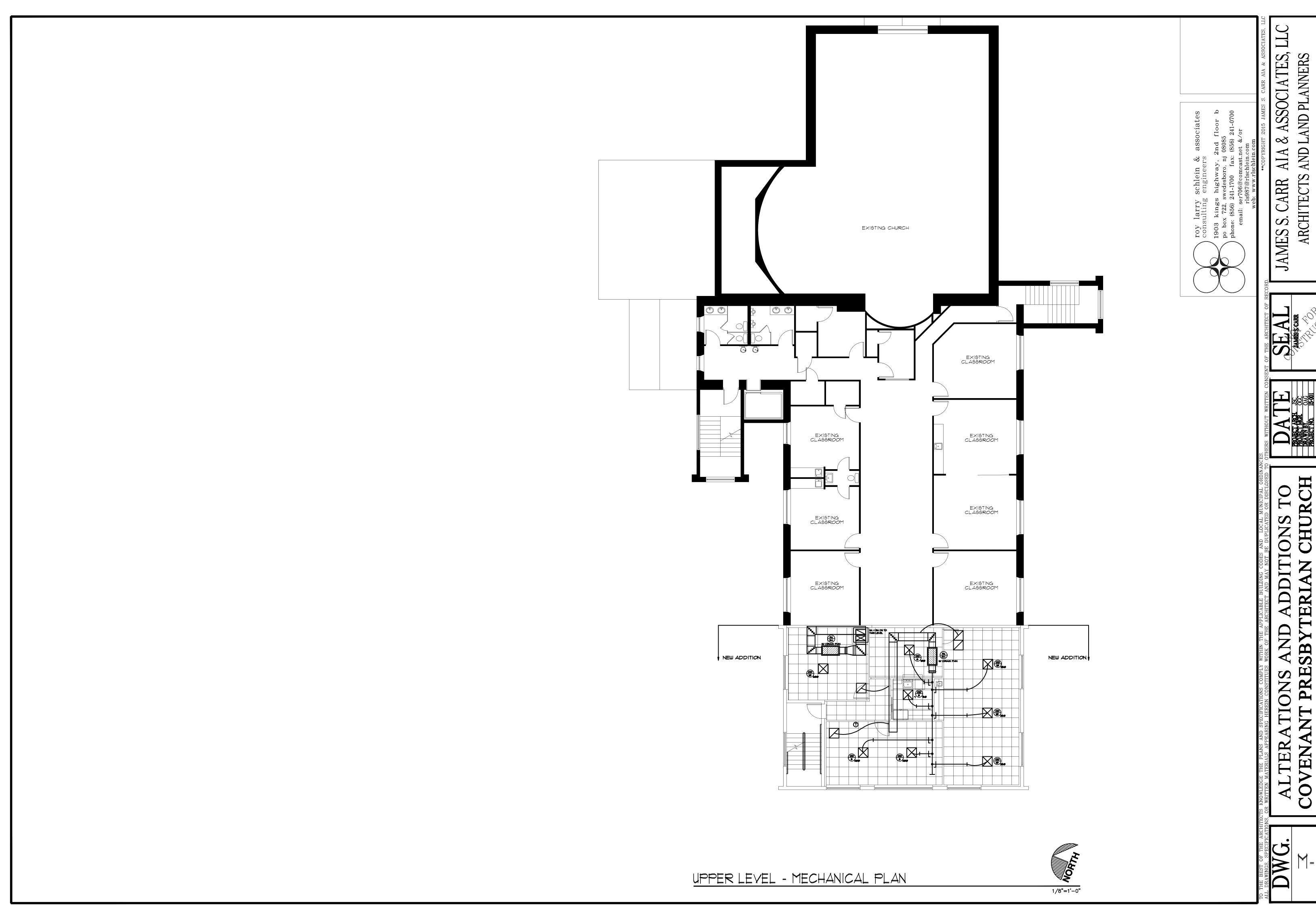




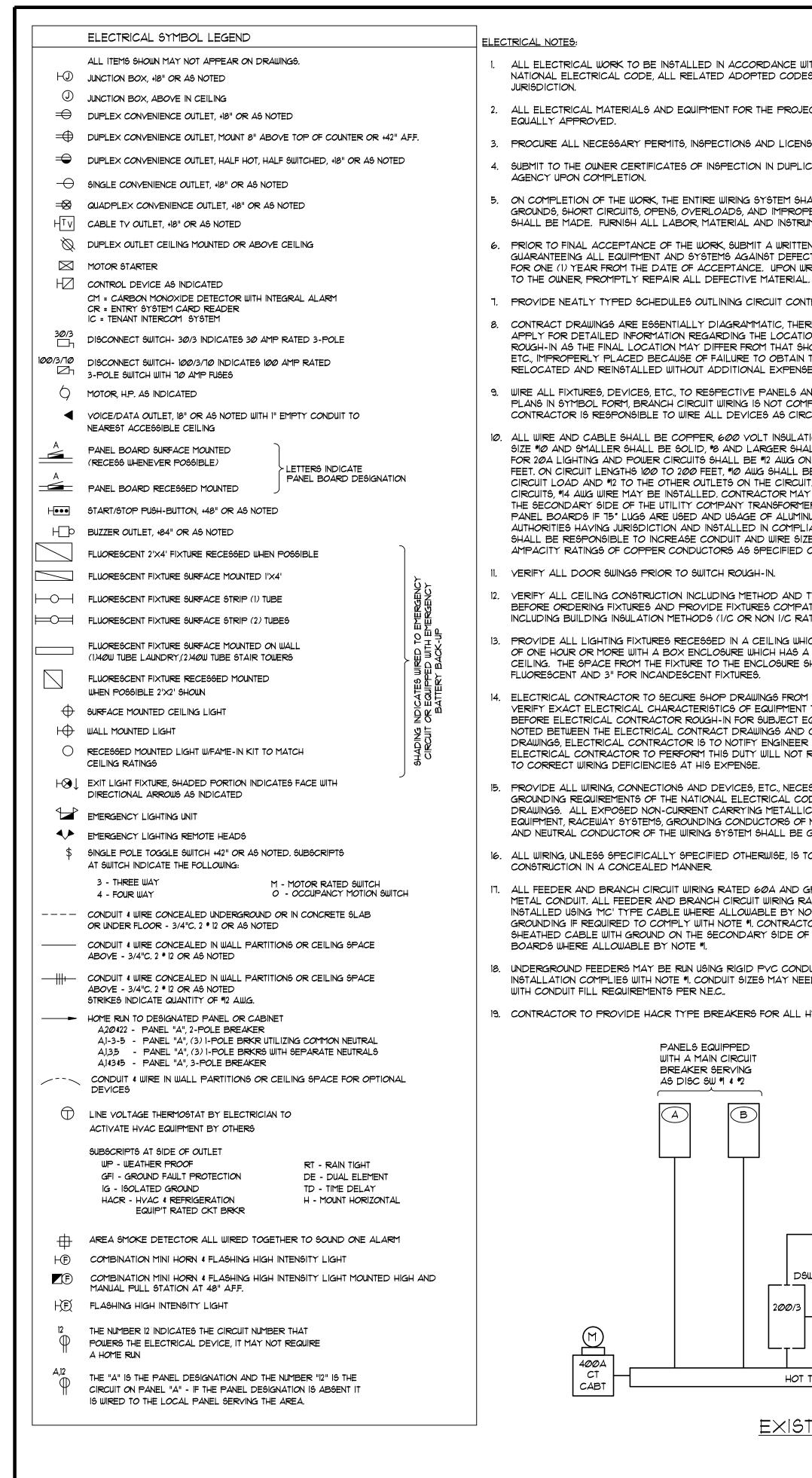
19355 CHURCH **ADDITIONS**

PRESBYTERL COVENANT 400L





400 LANCASTER AVENUE, MALVERN, PA 19355



ELECTRICAL NOTES:

- ALL ELECTRICAL WORK TO BE INSTALLED IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, ALL RELATED ADOPTED CODES AND LOCAL AUTHORITIES HAVING
- 2. ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY APPROVED.
- 3. PROCURE ALL NECESSARY PERMITS, INSPECTIONS AND LICENSES AND PAY ALL REQUIRED FEES.
- 4. SUBMIT TO THE OWNER CERTIFICATES OF INSPECTION IN DUPLICATE FROM APPROVED INSPECTION AGENCY UPON COMPLETION.
- 5. ON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE ENTIRELY FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS, AND IMPROPER VOLTAGES AND THOROUGH TESTS SHALL BE MADE. FURNISH ALL LABOR, MATERIAL AND INSTRUMENTS.
- PRIOR TO FINAL ACCEPTANCE OF THE WORK, SUBMIT A WRITTEN STATEMENT TO THE OWNER GUARANTEEING ALL EQUIPMENT AND SYSTEMS AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. UPON WRITTEN NOTICE AND AT NO EXPENSE
- PROVIDE NEATLY TYPED SCHEDULES OUTLINING CIRCUIT CONTROL FOR ALL PANEL BOARDS.
- 8. CONTRACT DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, THEREFORE, THE CONTRACTOR SHALL APPLY FOR DETAILED INFORMATION REGARDING THE LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN AS THE FINAL LOCATION MAY DIFFER FROM THAT SHOWN ON THE DRAWINGS. OUTLETS, ETC., IMPROPERLY PLACED BECAUSE OF FAILURE TO OBTAIN THIS INFORMATION SHALL BE RELOCATED AND REINSTALLED WITHOUT ADDITIONAL EXPENSE.
- WIRE ALL FIXTURES, DEVICES, ETC., TO RESPECTIVE PANELS AND CONTROLS AS SHOWN ON THE PLANS IN SYMBOL FORM, BRANCH CIRCUIT WIRING IS NOT COMPLETELY SHOWN ON DRAWINGS. CONTRACTOR IS RESPONSIBLE TO WIRE ALL DEVICES AS CIRCUITED SYMBOLICALLY.
- 10. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT INSULATION, TYPE THW, THHN OR THWN. WIRE SIZE #10 AND SMALLER SHALL BE SOLID, #8 AND LARGER SHALL BE STRANDED. MINIMUM SIZE WIRE FOR 20A LIGHTING AND POWER CIRCUITS SHALL BE #12 AWG ON CIRCUIT LENGTHS OF UP TO 100 FEET. ON CIRCUIT LENGTHS 100 TO 200 FEET, *10 AWG SHALL BE INSTALLED TO THE CENTER CIRCUIT LOAD AND #12 TO THE OTHER OUTLETS ON THE CIRCUIT. FOR 15A LIGHTING AND POWER CIRCUITS, #14 AWG WIRE MAY BE INSTALLED. CONTRACTOR MAY USE ALUMINUM WIRE AND CABLE ON THE SECONDARY SIDE OF THE UTILITY COMPANY TRANSFORMER(S) AND ON THE PRIMARY SIDE OF PANEL BOARDS IF 15° LUGS ARE USED AND USAGE OF ALUMINUM IS ALLOWABLE BY LOCAL AUTHORITIES HAVING JURISDICTION AND INSTALLED IN COMPLIANCE WITH THE N.E.C., CONTRACTOR SHALL BE RESPONSIBLE TO INCREASE CONDUIT AND WIRE SIZES AS NECESSARY TO MATCH AMPACITY RATINGS OF COPPER CONDUCTORS AS SPECIFIED ON DRAWINGS.
- 11. VERIFY ALL DOOR SWINGS PRIOR TO SWITCH ROUGH-IN.
- 12. VERIFY ALL CEILING CONSTRUCTION INCLUDING METHOD AND TYPE OF BUILDING INSULATION BEFORE ORDERING FIXTURES AND PROVIDE FIXTURES COMPATIBLE TO CEILING CONSTRUCTION, INCLUDING BUILDING INSULATION METHODS (I/C OR NON I/C RATED) AS REQUIRED.
- PROVIDE ALL LIGHTING FIXTURES RECESSED IN A CEILING WHICH HAVE A FIRE RESISTIVE RATING OF ONE HOUR OR MORE WITH A BOX ENCLOSURE WHICH HAS A FIRE RATING EQUAL TO THAT OF THE CEILING. THE SPACE FROM THE FIXTURE TO THE ENCLOSURE SHALL BE A MINIMUM OF 1" FOR FLUORESCENT AND 3" FOR INCANDESCENT FIXTURES.
- 14. ELECTRICAL CONTRACTOR TO SECURE SHOP DRAWINGS FROM OTHER SUBCONTRACTORS AND VERIFY EXACT ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO BE WIRED. THIS IS TO BE DONE BEFORE ELECTRICAL CONTRACTOR ROUGH-IN FOR SUBJECT EQUIPMENT. IF DISCREPANCIES ARE NOTED BETWEEN THE ELECTRICAL CONTRACT DRAWINGS AND OTHER CONTRACTOR SHOP DRAWINGS, ELECTRICAL CONTRACTOR IS TO NOTIFY ENGINEER AT ONCE. FAILURE BY THE ELECTRICAL CONTRACTOR TO PERFORM THIS DUTY WILL NOT RELIEVE HIM OF THE RESPONSIBILITY TO CORRECT WIRING DEFICIENCIES AT HIS EXPENSE.
- PROVIDE ALL WIRING, CONNECTIONS AND DEVICES, ETC., NECESSARY TO COMPLY WITH THE GROUNDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AS SHOWN ON THE DRAWINGS. ALL EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF THE ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, GROUNDING CONDUCTORS OF NONMETALLIC COVERED CABLE AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED.
- 16. ALL WIRING, UNLESS SPECIFICALLY SPECIFIED OTHERWISE, IS TO BE INSTALLED IN THE CONSTRUCTION IN A CONCEALED MANNER.
- II. ALL FEEDER AND BRANCH CIRCUIT WIRING RATED 60A AND GREATER ARE TO BE INSTALLED IN METAL CONDUIT. ALL FEEDER AND BRANCH CIRCUIT WIRING RATED LESS THAN 60A MAY BE INSTALLED USING 'MC' TYPE CABLE WHERE ALLOWABLE BY NOTE #1. PROVIDE ADDITIONAL GROUNDING IF REQUIRED TO COMPLY WITH NOTE *1. CONTRACTOR MAY USE NONMETALLIC SHEATHED CABLE WITH GROUND ON THE SECONDARY SIDE OF TYPICAL DWELLING UNIT PANEL BOARDS WHERE ALLOWABLE BY NOTE #1.
- 18. UNDERGROUND FEEDERS MAY BE RUN USING RIGID PVC CONDUIT (SCHEDULE 40) PROVIDING INSTALLATION COMPLIES WITH NOTE *1. CONDUIT SIZES MAY NEED TO BE INCREASED TO COMPLY WITH CONDUIT FILL REQUIREMENTS PER N.E.C..
- 19. CONTRACTOR TO PROVIDE HACR TYPE BREAKERS FOR ALL HVAC EQUIPMENT.

ELECTRICAL DEMOLITION AND ALTERATIONS

- 1. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AND WIRING NO LONGER REQUIRED. HE SHALL CUT ALL EXISTING CONDUIT WHICH WILL NOT BE COVERED OR HIDDEN BY THE NEW CONSTRUCTION BACK TO THE CONCRETE CEILING AND FLOOR SLABS. THIS CONTRACTOR, IF FEASIBLE MAY UTILIZE ANY EXISTING CONDUIT, OUTLET BOXES OR JUNCTION BOXES THAT DO NOT INTERFERE WITH THE NEW CONSTRUCTION. ALL EXISTING WIRING ON NOT BEING UTILIZED SHALL BE REMOVED BACK TO THE POINTS OF CONNECTION.
- 2. ANY WIRING THAT 15 TO REMAIN, WHICH RUNS THROUGH AREAS OF WORK SHALL REMAIN OPERATIONAL. IF ANY WORK INTERFERES WITH THE NEW CONSTRUCTION, IT SHALL BE REPOUTED AND REWORKED AS REQUIRED TO SATISFY THE NEW CONDITIONS.
- 3. IF ANY EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN FOR THE OPERATION OF SYSTEMS IN OTHER AREAS OF THE BUILDING, IT SHALL BE RELOCATED AS REQUIRED TO THE SATISFACTION OF THE ARCHITECT.
- 4. ANY INTERRUPTION OF BUILDING SERVICES TO ANY SECTION OF THE BUILDING SUCH AS ELECTRIC LIGHT AND POWER, FIRE ALARM SYSTEM, TELEPHONE SYSTEM AND THE LIKE SHALL BE SCHEDULED. THE ARCHITECT SHALL APPROVE ALL SCHEDULES BEFORE ANY INTERRUPTIONS ARE PERMITTED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OVERTIME WORK NECESSARY TO MEET THIS REQUIREMENT. IF INTERRUPTIONS MUST OCCUR DURING NORMAL HOURS AT THE BUILDING, THE ELECTRICAL CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE TEMPORARY SERVICES AS REQUIRED TO PERMIT THE NORMAL FUNCTIONING OF ALL FACILITIES DURING INTERRUPTION.
- 5. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF WORK AND BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS BEFORE SUBMITTING BID. NO EXTRA COMPENSATION WILL BE PAID FOR EXTRA WORK, WHICH MAY ARISE BECAUSE OF FAILURE TO DO SO.
- 6.IT SHOULD BE NOTED THAT THE NEW CONSTRUCTION IS TO BE CONNECTED TO AND INSTALLED IN EXISTING FACILITIES AND THE DRAWINGS GENERALLY SHOW ONLY THE NEW WORK THAT IS REQUIRED. DRAWINGS DO NOT SHOW IN DETAIL HOW NEW WORK IS TO BE INSTALLED BECAUSE OF UNKNOWN OBSTRUCTIONS TO ITS INSTALLATION WHICH MAY BE DISCLOSED AS WORK PROGRESSES. THE WORK SHALL BE PROVIDED IN SUCH A MANNER, AND WITH SUCH ADDITIONAL WORK NOT SPECIFICALLY INDICATED, AS TO OVERCOME ALL OBSTRUCTIONS AND DIFFICULTIES AT THE SITE. ALL SUCH WORK SHALL BE DONE IN FULL COOPERATION WITH THE ARCHITECT, WHO SHALL DECIDE AT THE SITE HOW SUCH WORK SHALL BE DONE.
- 1. CONTRACTOR SHALL CHECK THE CONDITION OF ALL PANELBOARDS, CIRCUIT BREAKERS, AND WIRING TO REMAIN AND INFORM ARCHITECT OF ANY FAULTY EQUIPMENT. CONTRACTOR TO PROVIDE NEATLY TYPED PANEL SCHEDULE LISTING ALL NEW AND USED CIRCUITS.
- 8. CONTRACTOR TO INFORM THIS ENGINEER AND THE ARCHITECT IMMEDIATELY IF DISCREPANCIES BETWEEN SITE CONDITIONS AND THE DESIGN ARISE.

SUGGESTED LIGHT FIXTURES FOR DESIGN WATTAGE AND PRICING ONLY. DESIGN BASED ON ENERGY SAVINGS LAMPS. FINAL SELECTION OR APPROVAL BY OWNER/ARCHITECT WITHIN THE DESIGN WATTAGES.

	LIGHT FIXTURE SCHEDULE												
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	REMARKS									
Д	METALUX	2GR8-2U6T8-UNY-EB8	(2) 32W U6 T8	RECESSED 2x2 TROFFER									
Aem	METALUX	2GR8-2U6T8-UNV-EL-EB8	(2) 32W U6 T8	RECESSED 2x2 TROFFER W/EM BATTERY BACK-UP FORMAX LUMENS									
В	METALUX	WE-232-120V-EB8	(2) 32W T8	9"x4" SURFACE MOUNTED									
С	PROGRESS	P3910-09WB	(1) 26W GU24	SURFACE MOUNTED UTILITY LIGHT									
D	SPAULDING	QSP-52F8-WT-BL-PC(X)- BBU(X)	(2) 26W QUAD	EXTERIOR WITH BUTTON PHOTO CELL & EM BATT BACK-UP FOR MAX LUMENS									
E	METALUX	SL2-5	(2) 32W T8	MOTION SENSOR STAIR LIGHTING W/EM BATTERY BACK-UP FOR MAX LUMENS									
F	METALUX	2M-2U6T8A-12ØY-EL-EB8	(2) 32W U6 T8	SURFACE MOUNTED 2x2 W/EM BATTERY BACK-UP FORMAX LUMENS									
×	CHLORIDE	SCN-RW	LED INC.	ILLUMINATED EXIT SIGN WITH SINGLE AND DOUBLE FACE WITH ARROWS									

ALL EMERGENCY BATTERY OPERATED LIGHT FIXTURES TO BE EQUIPPED WITH BATTERY RATED FOR A MINIMUM OF 90 MINUTES MAXIMUM LUMENS AVAILABLE.

																				42000AIC
200A MCB								F	PANE	RE									:	208/120V 3+ 4W
LOCATION	WA	WATTAGE			R E	M	m I	CK	B _K		B _K	CK	W ₁ M		шЛ	L _†	WATTAGE			L OC ATION
	φД	ΦB	ΦC	TG	⁼ c	ˈs	RE		R		R		" R E	် '	⁼ c		φД	ΦB	φC	LOCATION
ACC-5	3630					1	*6	1	60/2	 	20/1	2	*1 2			28	1678			LOWER LEY LTG
_		3630				_	_	3	_	++	20/1	4	*12			16		1024		MAIN LEVEL LTG
ACC-5H			3630			1	*6	5	60/2	+	20/1	6	*1 2			13			832	MAIN LEVEL LTG
_	3630					_	_	٦	_	•	20/1	8	*12			15	960			UPPER LEV LTG
ACC-5H		3630				1	*6	9	60/2	++	20/1	10	*1 2			14		896		UPPER LEV LTG
_			3630			_	_	11	_	+	20/1	12	*12			6			384	STAIRS
FN-5	1920					1	#12	13	20/1	•	20/1	14	*1 2			3	156			EXTERIOR LTG
FN-5H		1920				1	#12	15	20/1	++	20/1	16	*12		5			900		LOWER LEY REC
FN-5H			1920			1	#12	17	20/1	++	20/1	18	*1 2		5				900	LOWER LEY REC
ECH-4	2000					1	*10	19	30/2	+ ++	20/1	20	*12		2		360			EXTERIOR GFI
_		2000				_	_	21	_	++	20/1	22	* 12		8			1440		MAIN LEV RECEP
HWH-3			2250			1	*10	23	3Ø/2	+	20/1	24	*12		8				1440	MAIN LEV RECEP
_	2250					_	_	25	_	+	20/1	26	* 12		٦		1260			UPPER LEY REC
SMALL APP GFI		1500			3		#12	27	20/1	++	20/1	28	*12		6			1080		UPPER LEV REC
SMALL APP GFI			1500		2		#12	29	20/1	+	20/1	3Ø	* 12		6				1080	UPPER LEV REC
REFRIGERATOR	1176				1		#12	31	20/1	+	20/1	32	*12		1		1200			DISHWASHER
								33		++	20/1	34								SPARE
								35		+	20/1	36								SPARE
								37		•		38								
								39		++		40								
								41		+		42								
	14606	12680	12930														5314	534Ø	4636	
CONN LOAD :	55,506	W - 4,	,000 U	J = 5	1,506				•	593	Ø LCL	x125	% =	7,413	W		'			

OTHER

= 45,576 W

5930 LCL x125% = 52,989 W

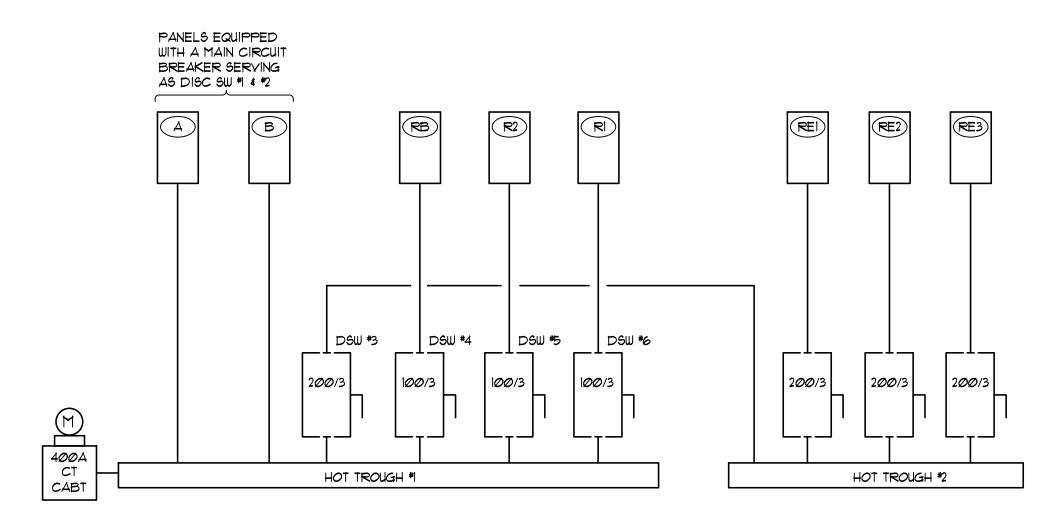
SERIES RATED

SERVICE LOAD CALCULATION:

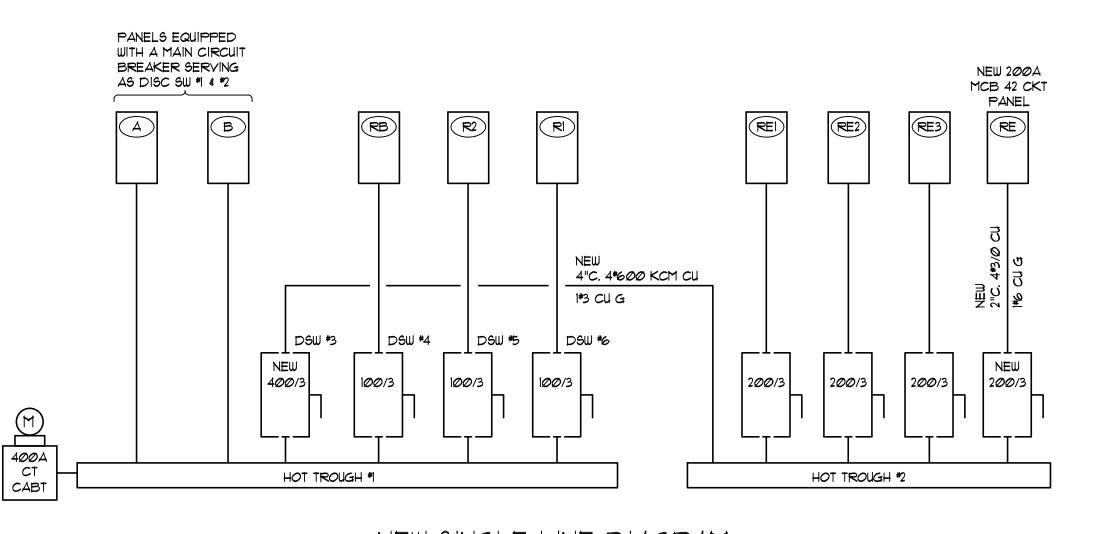
FDR AMPS: 52,989 W / 208V(1,732)= = 147.1 AMPS

PEAK USAGE AS REPORTED BY THE UTILITY COMPANY IS 54.000 W x125% = 67,500 W ADDED LOADS FOR PANELS RI AND R2 = 9,820 W NEW PANEL RE LOAD = <u>52,989</u> W TOTAL LOAD = 130,309 W

130,309 W/ 208V(1.732)= 361.7 AMP5. THEREFORE THE EXISTING 400 AMP 208/120V 30 4W SERVICE CAN HANDLE THE NEW LOAD.







NEW SINGLE LINE DIAGRAM

SCOPE OF WORK CONTRACTOR TO REPLACE EXISTING 200A MAIN DISCONNECT SWITCH *3 WITH NEW 400/3 DISCONNECT SWITCH TO SERVE THE EXISTING HOT TROUGH SERVICNG PANELS REI, RE2 AND RE3.

CONTRACTOR TO REPLACE EXISITING 200A RATED FEEDER FROM HOT TROUGH *1 TO NEW 400/3 MAIN DISCONNECT SWITCH TO EXISTING HOT TROUGH *2.

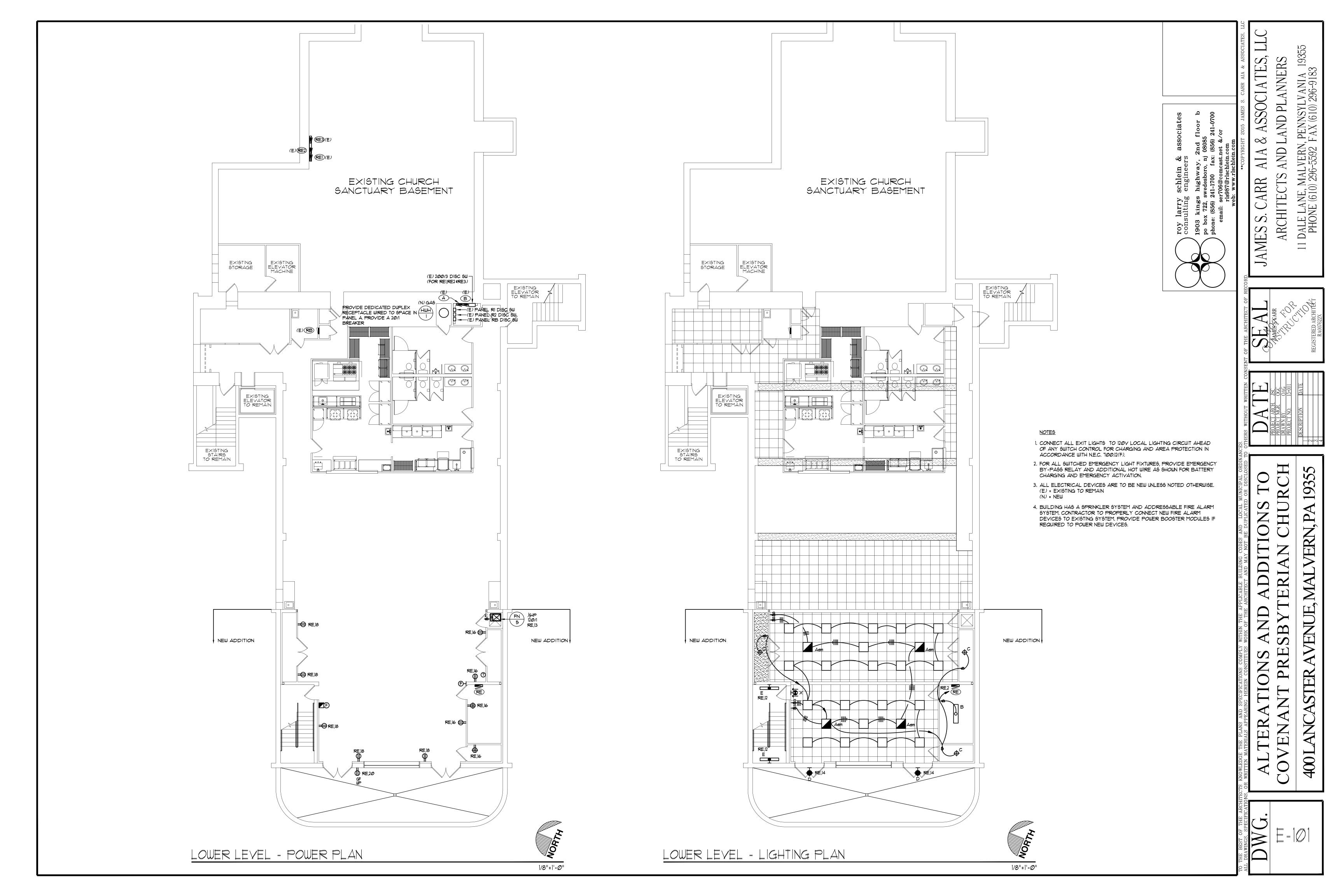
CONTRACTOR TO PROVIDE A NEW 200/3 DISCONNECT FOR NEW PANEL RE TO SERVE THE ADDITION TO BUILDING. PROVIDE NEW 200A 208/120V 34 4W MCB PANEL RE. INSTALL 200A RATED FEEDER TO PANEL RE LOCATION SHOWN ON PLANS.

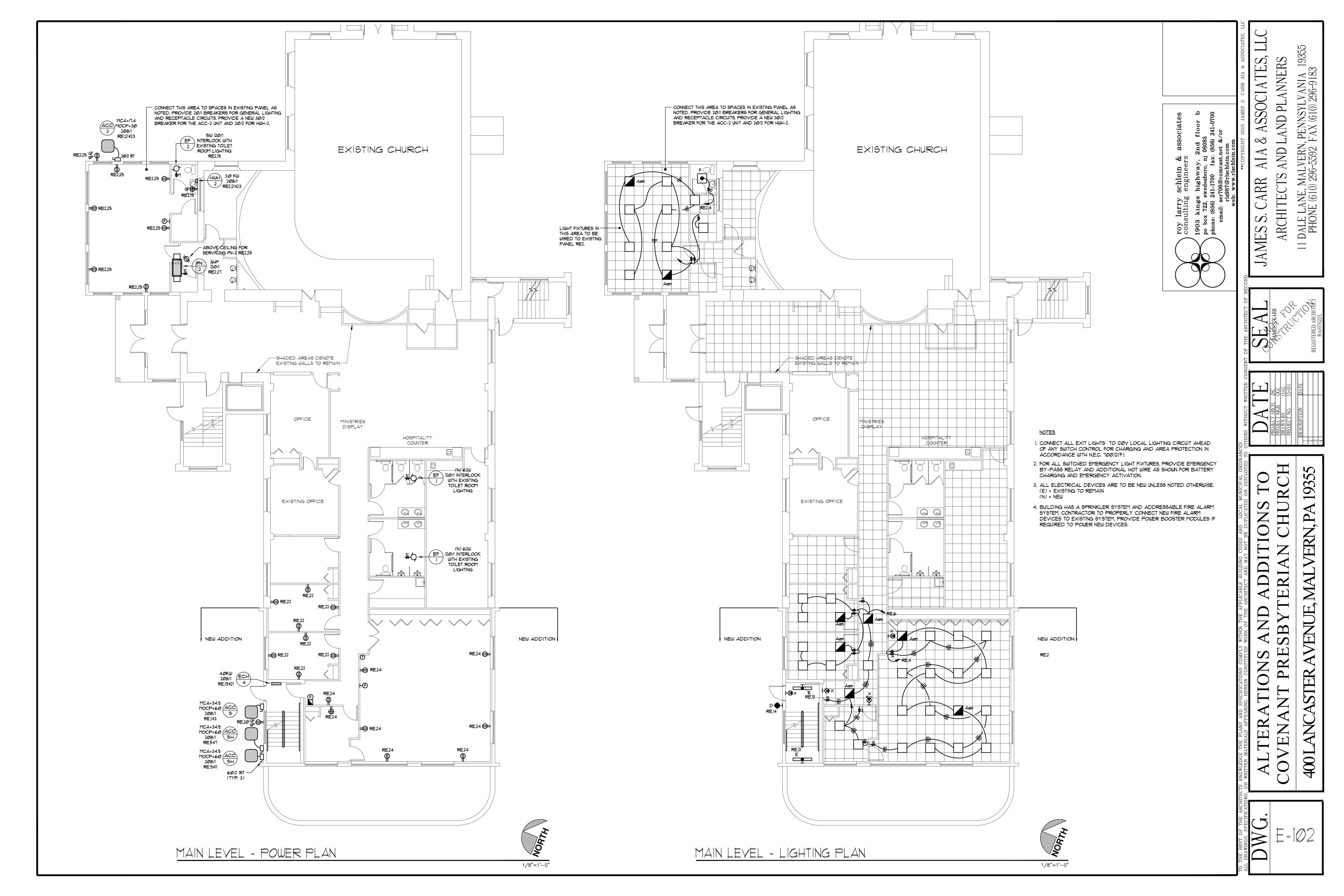
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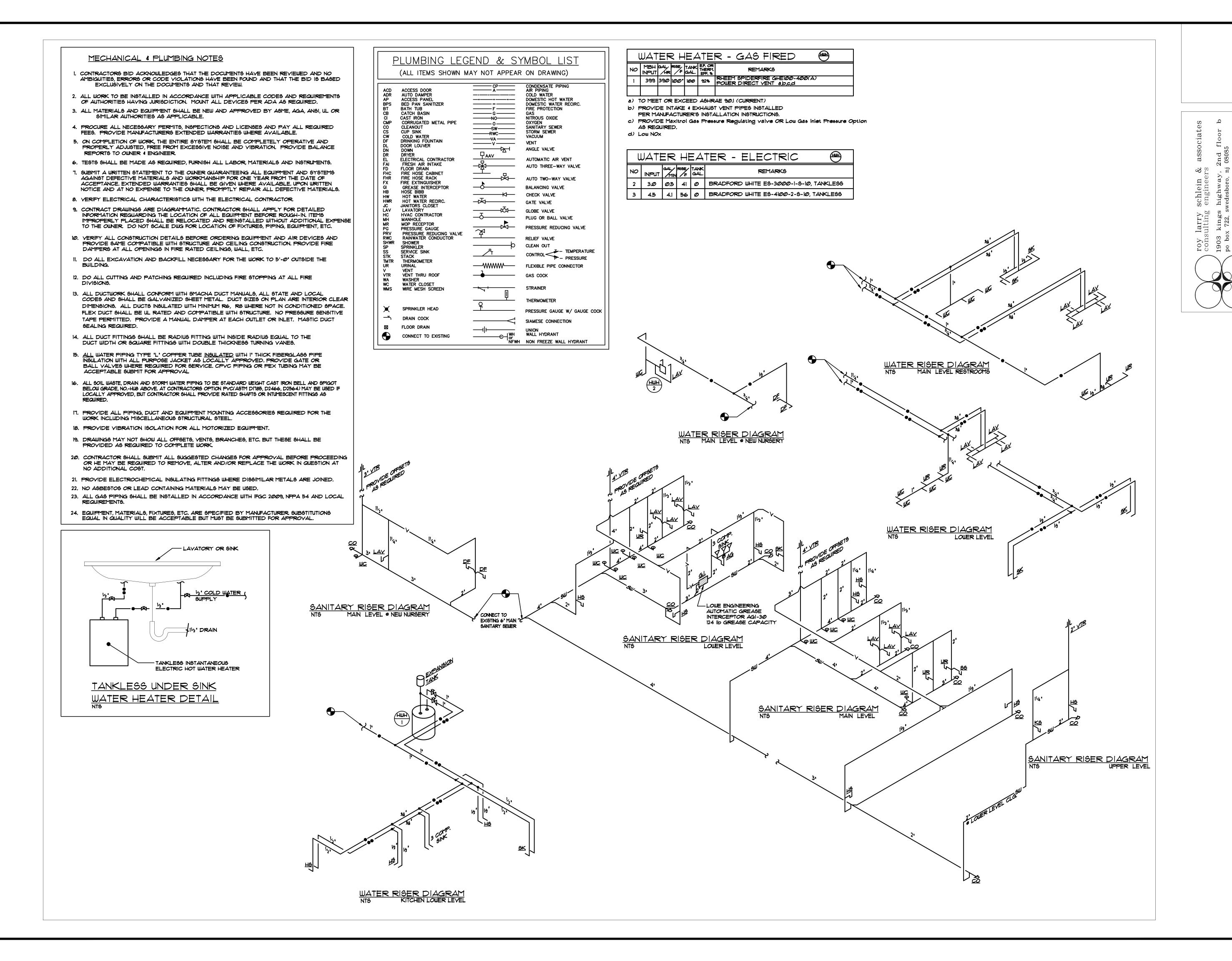




19355

CHURCE

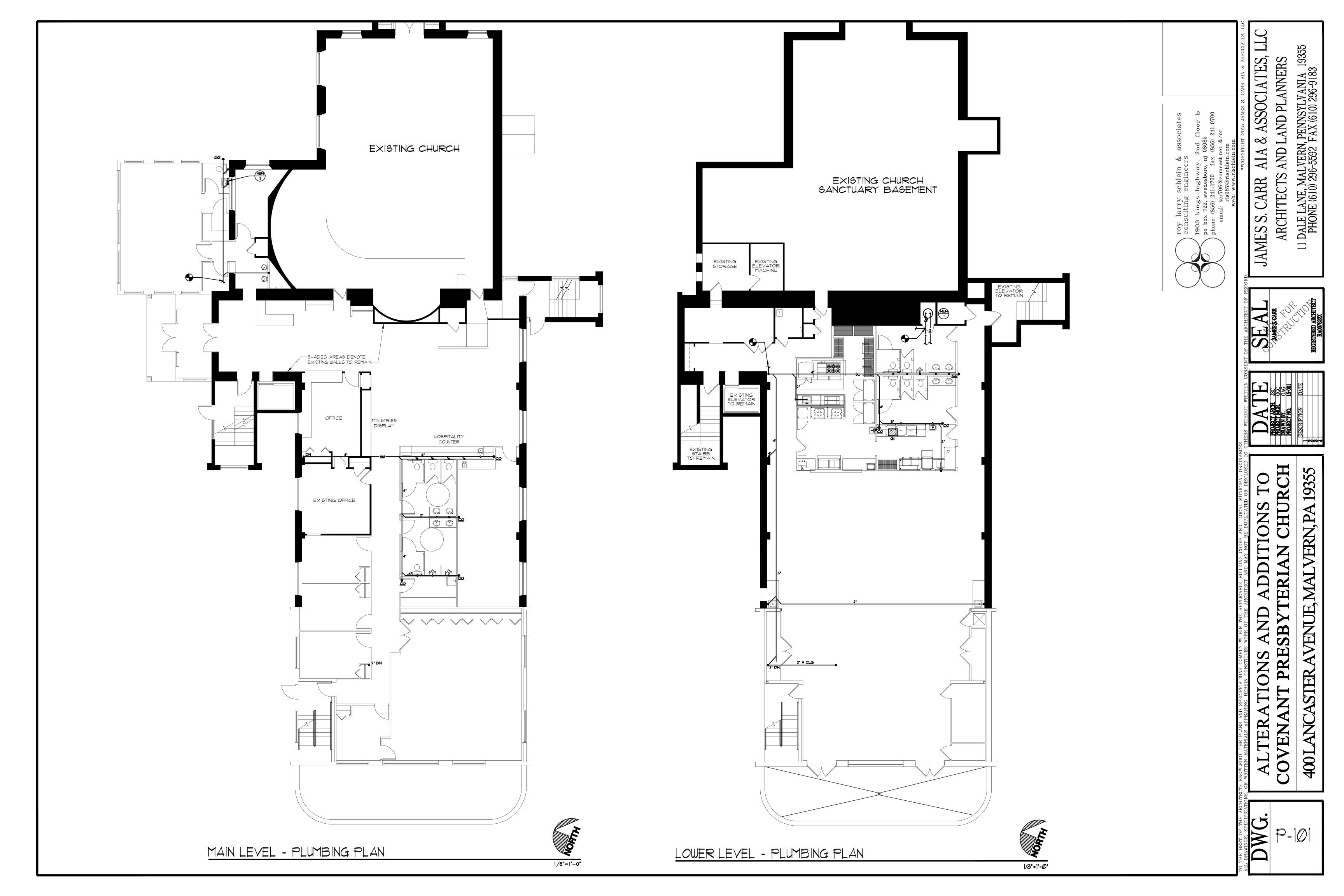
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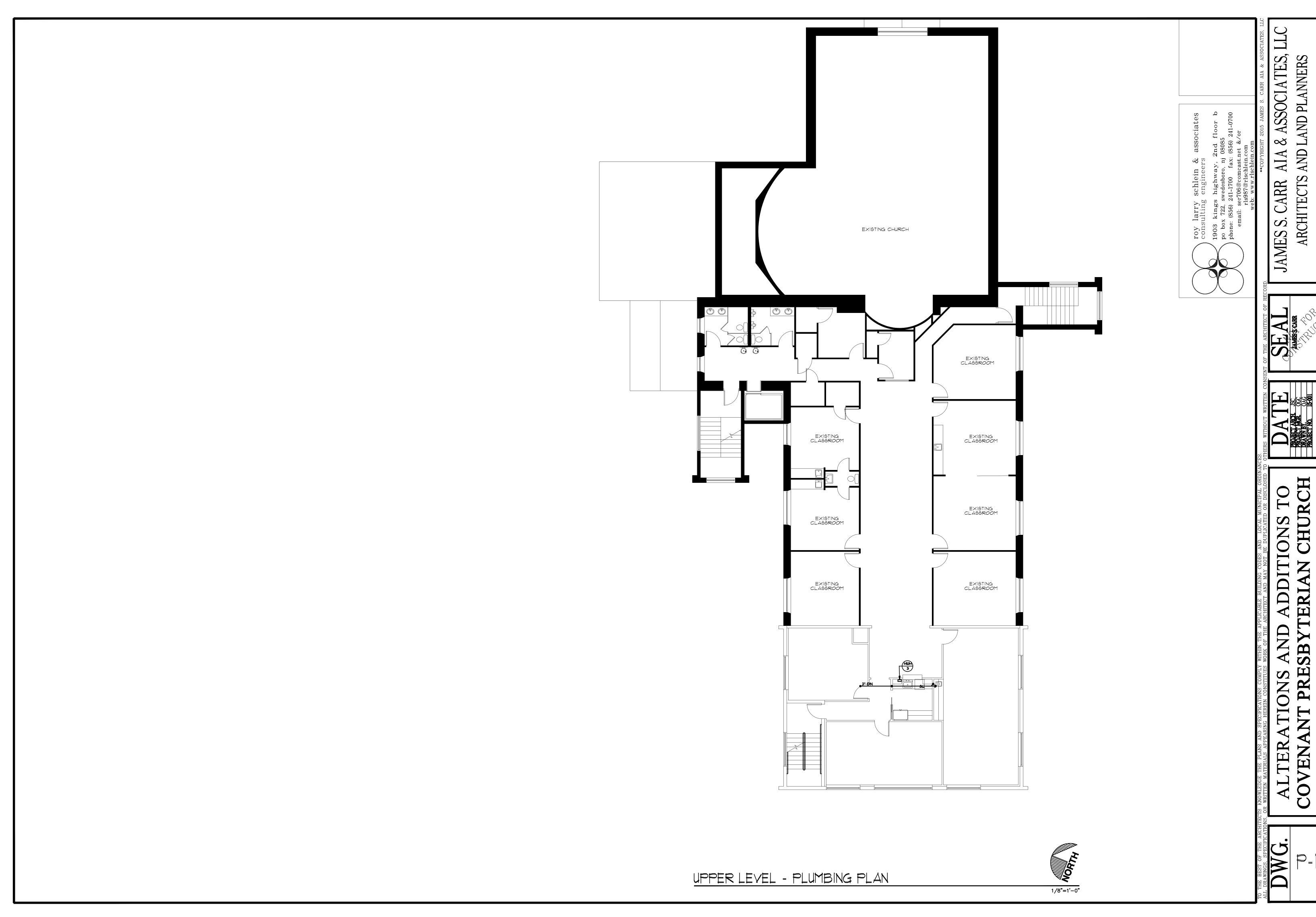


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