

#### NOTES:

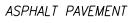
- 1. THE BOUNDARY DATA WAS TAKEN FROM MILLER LAND SURVEYING, LLC DATED FEBRUARY 17, 2020.
- 2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TAKEN FROM THE FENCE LINE, PROPERTY LINE, FACE OF CURB, EDGE OF PAVEMENT OR OUTSIDE FACE OF BUILDING.
- THE MINERAL AGGREGATE BASE AND ASPHALTIC SURFACE 3 COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, AND TESTING REQUIREMENTS OF THESE DRAWINGS, AND THE KNOX COUNTY DEPARTMENT OF ENGINEERING STANDARD SPECIFICATIONS.
- 4. CONCRETE CURB AND PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE CURB AND PAVEMENT SHALL MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE KNOX COUNTY DEPARTMENT OF ENGINEERING STANDARD SPECIFICATIONS.
- 5. TRAFFIC CONTROL DEVICES AND PAVEMENT MARKING SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 6. PROPERTY CONCERNED REFLECTS PARCEL 111.02 AS SHOWN IN KNOX COUNTY CLT MAP 103. A PORTION OF THE PROPERTY IS ZONED OB/TO, OFFICE & MEDICAL SERVICES DISTRICT IN THE TECHNÓLOGY OVERLAY. REMAINDER OF THE PROPERTY IS ZONED PR/TO, PLANNED RESIDENTIAL IN THE TECHNOLOGY OVERLAY. TOTAL AREA =  $20.0\pm$  AC.
- OWNER: BOARD OF TRUSTEES OF THE UNITED METHODIST CHURCH, OAK RIDGE DISTRICT 706 SOUTH ILLINOIS AVENUE STE 102D OAK RIDGE, TN 37830
- 7. BUILDING SETBACKS ARE 25-FT IN FRONT, 20-FT ON SIDE AND 20-FT IN REAR. WHERE PROPERTY ABUTS A RESIDENTIAL ZONE. BUILDING SETBACK IS 100-ET. PER TTCDA DESIGN GUIDELINES, THE FRONT SETBACK IS 60-FT WHERE PARKING IS BETWEEN THE BUILIDING AND THE RIGHT-OF-WAY.
- 8. REMOVE OVER-PAVEMENT OF ASPHALT AND STONE FROM UNDERNEATH LANDSCAPE AREAS UP TO THE LIMITS THAT HAVE BEEN SPECIFIED (REFER TO THE CURB DETAIL) IN ORDER TO PROVIDE A SOLID BASE FOR THE CONCRETE CURB.
- 9. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.
- 10. TTCDA FILE NUMBER: 5-B-21-TOB.

## DEVELOPMENT INTENSITY

GROUND AREA COVERAGE (GAC) REQUIREMENT: GAC < 5,000 SF PER 2 AC. LA = AREA COVERED BY A BUILDING 12,339 SF GA = GROSS AREA OF LOT / 2 AC.10.00 AC. 1,234 SF PER 2 AC. GAC = LA/GAFLOOR AREA RATIO (FAR) REQUIREMENT: FAR < 50% GAF = GROSS FLOOR AREA OF BUILDING 12,339 SF GA = GROSS AREA OF LOT 871,200 SF FAR = GAF/GA 1.42 % IMPERVIOUS AREA RATIO (IAR) REQUIREMENT: IAR < 50% IA = GROSS IMPERVIOUS AREA 1.28 AC. GA = GROSS AREA OF LOT 20.00 AC. IAR = IA/GA6.40 % PARKING SURFACE AREA PARKING SURFACE AREA = 32,880 SF

### PARKING SUMMARY

KNOX COUNTY REQUIRED PARKING FOR CHUI 1 SPACE PER 4 SEATS IN MAIN WORSHIP A OR 1 SPACE PER 30 SF OF USABLE FLOOV AREA OF AUDITIORIUM, WHICHEVER IS GREAT 338 SEATS @ 1 SPACE PER 4 SEATS 3,595 SQ FT @ 1 SPACE PER 30 SF OF U FLOOR AREA TOTAL REQUIRED PARKING	REA V ER 85
TTCDA REQUIRED PARKING FOR CHURCH BUIL 338 SEATS @ 1 PARKING SPACE PER 4 SE IN MAIN WORSHIP AREA (MINIMUM) 338 SEATS @ 1 PARKING SPACE PER 3 SE IN MAIN WORSHIP AREA (MAXIMUM) TOTAL REQUIRED PARKING MAXIMUM ALLOWABLE PARKING TOTAL PARKING PROVIDED STANDARD SPACES (9'x17.5') HANDICAP (2 VAN ACCESSIBLE) TOTAL	ATS 85
( F	CIVIL ENGINEER:
ASPHALT PAVEMENT	FULGHUM



CONCRETE PAVEMENT

PROPERTY LINE

EXISTING PROPERTY LINE

BUILDING SETBACK

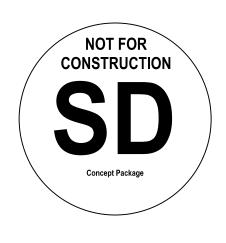
NUMBER OF PARKING SPACES

TYPICAL



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#### Project Phase: Concept Package

Issi	ue Date: 04/05/2021	
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No.	Descripton	Date
Α	TTCDA REVIEW	04/05/2021
В	MPC COMMENTS	04/23/2021

20011.00 Job Number: Layout & Paving Plan

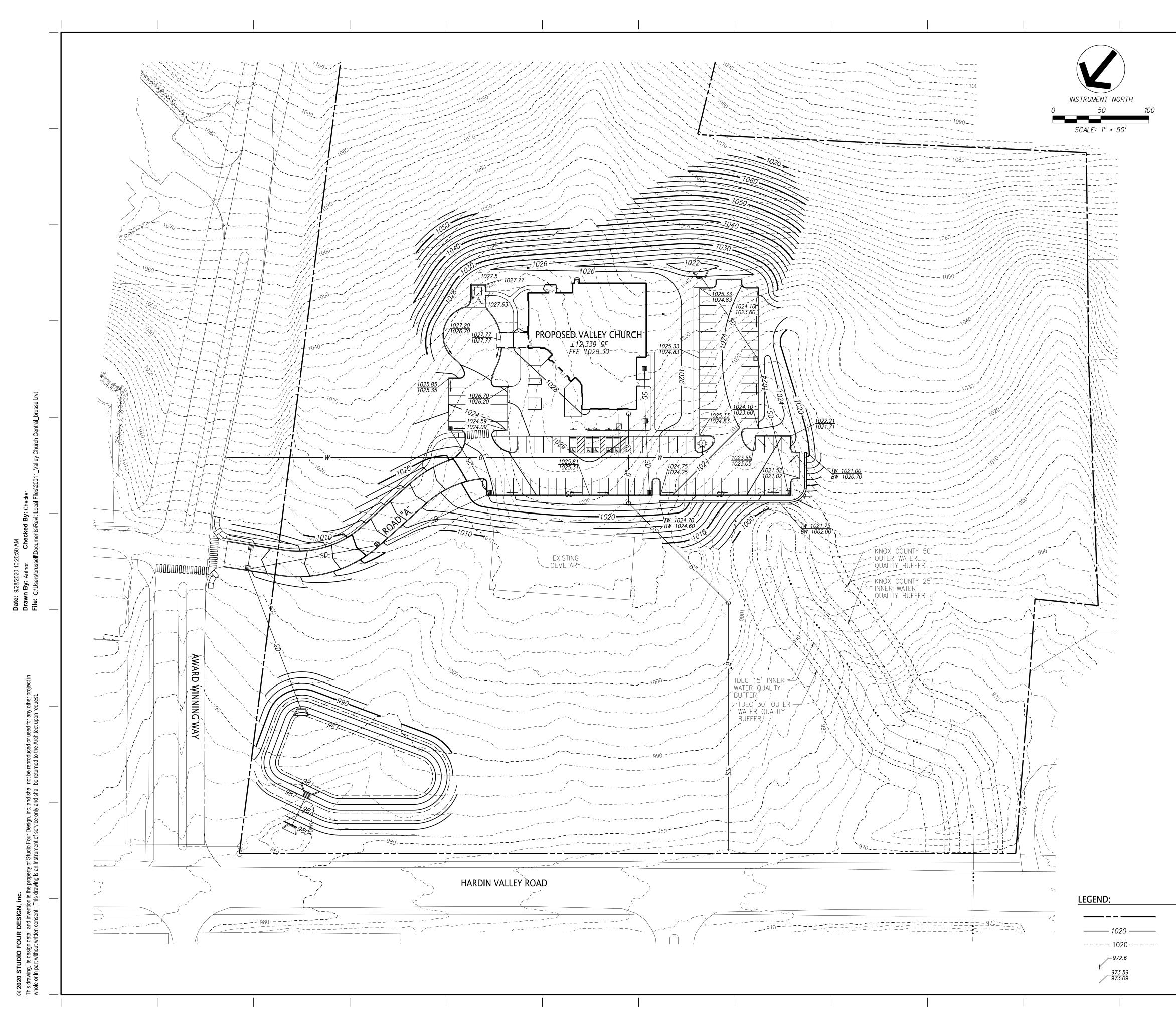
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SUITE 201 KNOXVILLE, TN 37932 OFFICE: 865.690.6419 FAX: 865.690.6448 www.fulghummacindoe.com FMA PROJECT: 243.203

MACINDOE

& ASSOCIATES, INC.

10330 HARDIN VALLEY ROAD



## GRADING NOTES:

- 1. THE TOPOGRAPHIC DATA WAS TAKEN FROM AVAILABLE KGIS MAPS.
- 2. UNLESS NOTED OTHERWISE, THE PROPOSED GRADES SHOWN ON THESE DRAWINGS ARE FINISHED GRADE. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 2-FT. INTERVALS.
- 3. THE ACCURACY OF THE GRADES IS DEPENDANT ON THE DATA PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. FIELD VERIFY AS NECESSARY PRIOR TO CONSTRUCTION.
- 4. THE SITE SHALL BE CLEARED AND GRUBBED WITHIN THE LIMITS OF EXCAVATION. COMPLETELY DISPOSE OF ALL MATERIALS RESULTING FROM CLEARING AND GRUBBING OFF-SITE. BURNING SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS OBTAINED BY THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR MUST OBTAIN A PERMIT AND MEET ALL OF THE REQUIREMENTS AS SPECIFIED BY THE FIRE DEPARTMENT.
- 5. ALL TREES STUMPS, BOULDERS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF 2 FT BELOW THE SUBGRADE. ROCK SHALL BE SCARIFIED TO DEPTH OF 1 FT BELOW SUBGRADE.
- 6. STRIP TOPSOIL FULL DEPTH (6-IN. MIN.) AND TEMPORARILY STOCKPILE EXCAVATED MATERIALS. INSTALL SILT FENCE OR OTHER APPROPRIATE EROSION CONTROL STRUCTURES ON THE DOWN HILL SIDE OF THE STOCKPILE.
- 7. PROOF ROLL ALL AREAS TO RECEIVE FILL. PROOF ROLL WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK USING A CRISS-CROSS PATTERN (4 PASSES MIN.) AREAS FAILING THE PROOF ROLLING SHALL BE UNDERCUT AND BACKFILLED USING AN ENGINEERED FILL OR STABILIZED BY A METHOD APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- 8. AREAS THAT EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS SHALL BE UNDERCUT TO A FIRM LEVEL OF SOIL FOLLOWED BY BACKFILLING THE UNDERCUT AREAS USING AN ENGINEERED FILL. TDOT NO. 57, OR TDOT NO. 67 STONE.
- 9. FILL MATERIAL SHALL BE SATISFACTORY MATERIAL FREE FROM ROOTS AND OTHER ORGANIC MATERIAL, FROZEN MATERIAL, AND TRASH. FILL MATERIAL SHALL ALSO BE FREE OF STONE OR OTHER MATERIAL LARGER THAN 6 IN. AND LARGER THAN 4 IN. IN THE TOP 6 IN. OF AN EMBANKMENT.
- 10. FILL SOILS SHALL HAVE A PI LESS THAN 30 & A MAXIMUM DRY DENSITY OF 90 PCF OR GREATER.
- 11. UNSATISFACTORY SOILS INCLUDE MATERIALS THAT ARE TOO WET OR TOO SOFT, EXPANSIVE SOILS AND SOILS CLASSIFIED PT, OH, AND OL. LEGALLY DISPOSE OF UNSATISFACTORY SOILS OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER OR GEOTECHNICAL ENGINEER.
- 12. FILL MATERIAL SHALL BE PLACED IN LOOSE, HORIZONTAL LIFTS NOT EXCEEDING 8 IN. THICKNESS. UNLESS NOTED OTHERWISE. COMPACT EACH LAYER TO AT LEAST 98% MAXIMUM DRY DENSITY. COMPACT THE UPPER 24 IN. OF FILL BENEATH PAVEMENTS AND THE UPPER 12 IN. BENEATH BUILDING SLABS TO 100% MAXIMUM DRY DENSITY. MAINTAIN THE MOISTURE CONTENT TO WITHIN -1 TO +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- 13. A 6 IN. (MIN.) LAYER OF TOPSOIL SHALL BE PLACED OVER THE AREAS TO BE SEEDED AND TO THE FINISH GRADE ELEVATIONS AS SHOWN ON THE DRAWINGS.
- 14. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS OR POND ON-SITE. PROVIDE NECESSARY MEASURES TO KEEP THE SITE FREE-DRAINING.
- 15. NO SLOPE SHALL EXCEED 2:1 UNLESS PROPER SLOPE STABILIZATION MEASURES ARE IMPLEMENTED.
- 16. PROTECT AND MAINTAIN SUBGRADES UNTIL PLACEMENT OF THE FINAL SURFACE IS ACHIEVED.
- 17. CONTRACTOR IS RESPONSIBLE TO ASSURE THAT THE FINISHED GRADES CONFORM WITH THE DETENTION POND DESIGN PARAMETERS. ONCE GRADING IS COMPLETE AND PRIOR TO FINAL SEEDING, SUBMIT AN AS-BUILT SURVEY FOR THE OWNER'S REVIEW.
- 18. VERIFY GRADES WHEREVER NECESSARY TO BRING THE PROPOSED LINES, ELEVATIONS, SLOPES, AND CROSS-SECTIONS OF THE GRADING WORK TO WITHIN THE FOLLOWING TOLERANCES ABOVE OR BELOW THAT AS SHOWN ON THE PLANS: SUBGRADE 0.1', UNPAVED AREAS 0.1', SIDEWALKS 0.10', PAVEMENTS 0.04', AND BUILDINGS 0.04'.
- 19. SLOPES GREATER THAN 4:1 SLOPE AT A HEIGHT GREATER THAN 6-FT SHALL BE TESTED BY THE PROJECT GEOTECHNICAL ENGINEER TO DETERMINE STABILITY.
- 20. DISTURBED AREAS SHALL BE STABILIZED IN AN EXPEDIENT MANNER TO MINIMIZE TIME OF EXPOSURE TO WEATHER.

## PROPERTY LINE PROPOSED CONTOUR EXISTING CONTOUR PROPOSED SPOT ELEVATION TOP CURB/TOP PVMT.

## **CIVIL ENGINEER:**



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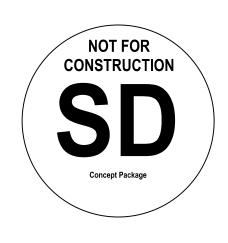
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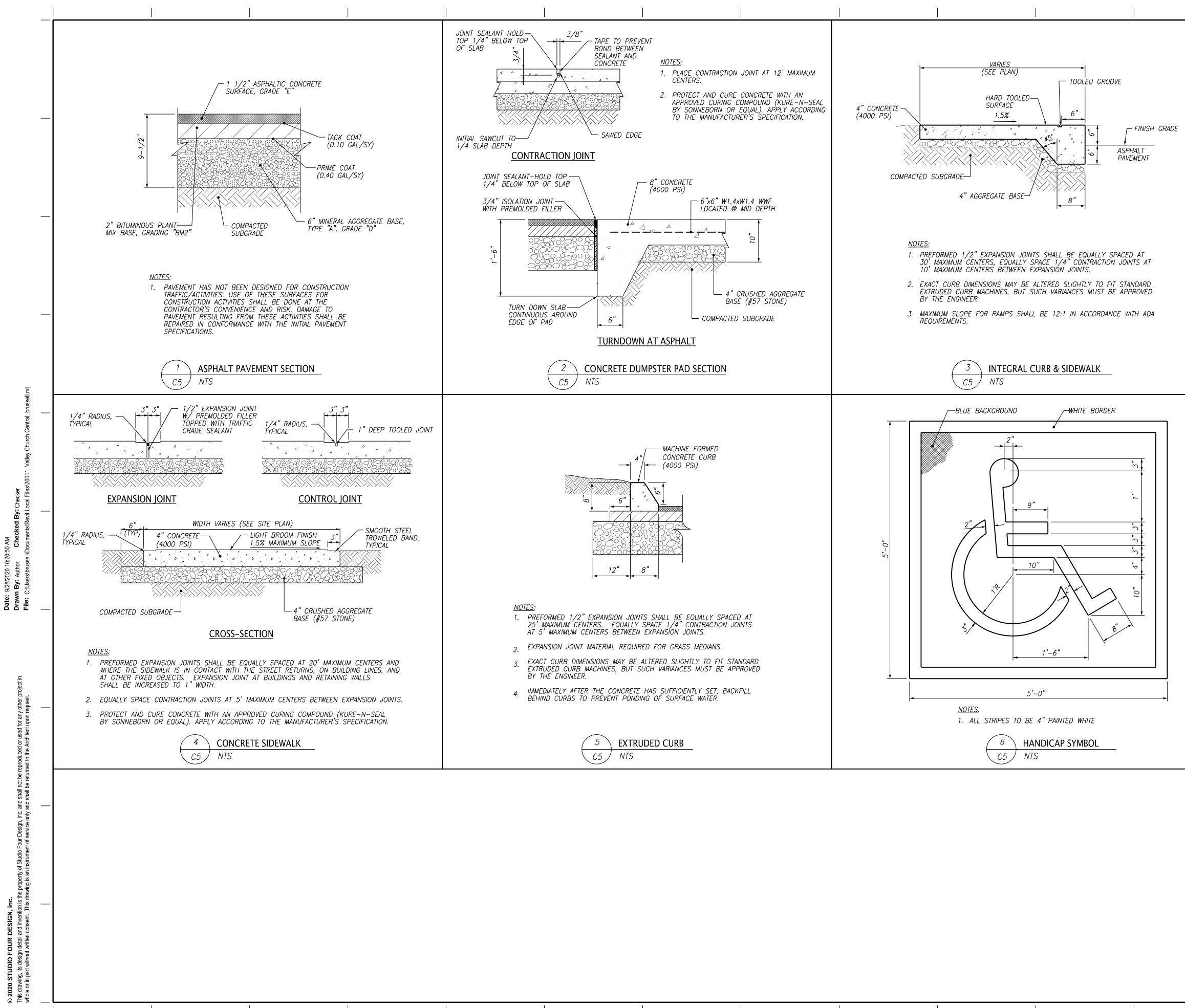
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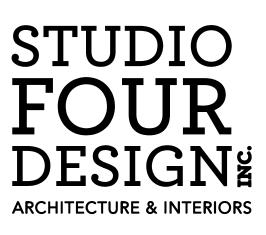


#### Project Phase: Concept Package

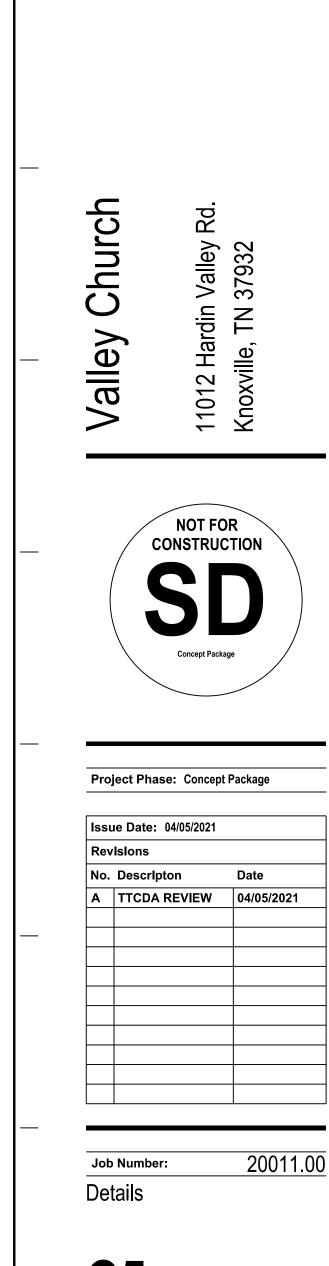
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Job Number: Grading Plan 20011.00





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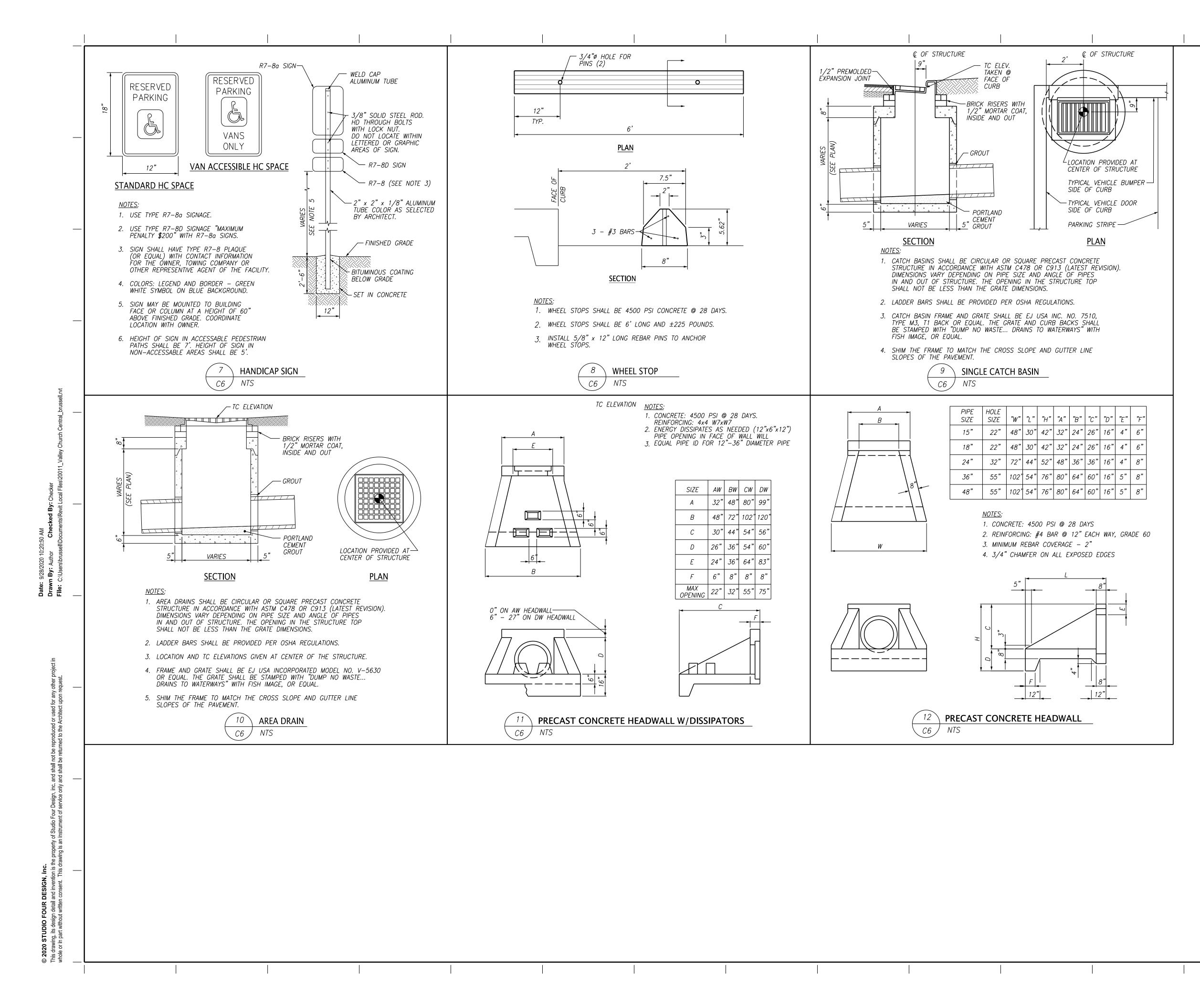


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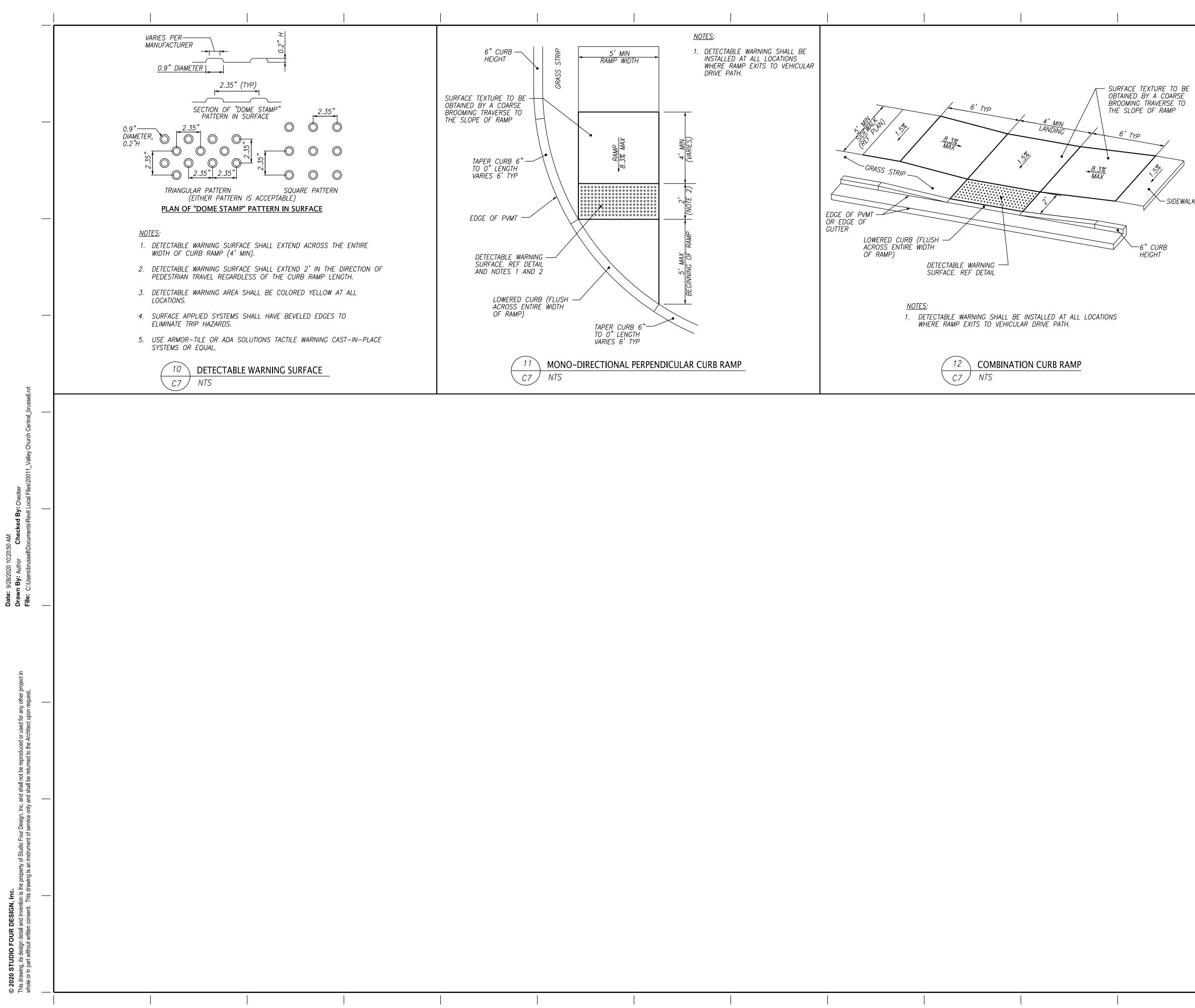




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SIDEWALK