

No.	Description	Date
1	City Review #2	5.13.16
2	Bid Set	8.05.16

51ST AVENUE NORTH

LEGEND:

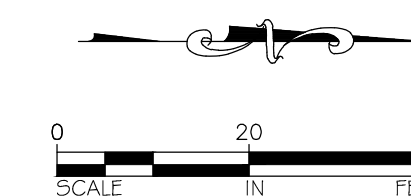
---901---	EXISTING MINOR CONTOUR
---900---	EXISTING MAJOR CONTOUR
---	EXISTING BITUMINOUS
---	REMOVE BITUMINOUS
---	EXISTING BUILDING
---	REMOVE BUILDING
---	PROPERTY LINE
---	EXISTING CONCRETE
---	REMOVE CONCRETE
---	EXISTING CURB
---	REMOVE CURB
---	EASEMENT
---	EGRESS WELL
X	REMOVE FENCE
---	EXISTING OVERHEAD WIRES
---	SAWCUT
UGT	EXISTING UNDERGROUND TELEPHONE
GAS	EXISTING UNDERGROUND GAS
>	EXISTING SANITARY SEWER
DT	EXISTING DRAIN TILE
>>	EXISTING STORM SEWER
>>>	REMOVE STORM SEWER
---	EXISTING WATERMAIN
---	REMOVE BITUMINOUS
---	EXISTING CONCRETE
---	REMOVE CONCRETE
⊗	CLEAR AND GRUB TREE
⊠	REMOVE CATCH BASIN
⊠	EXISTING CATCH BASIN
4	REMOVE SIGN

REMOVAL NOTES:

1. THE EXISTING SANITARY SERVICE TO THE HOUSE SHALL BE REMOVED OR DISCONNECTED FROM THE CITY SANITARY SEWER SYSTEM. THE SERVICE HAS BEEN CAPPED AT THE HOUSE AND APPEARS TO CONTINUE TOWARD THE CHURCH.
2. CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF SITE.
3. BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH MNDOT SPEC. 2104.3.


REFERENCE NOTES:

- ① REMOVAL HAS BEEN DONE BY OTHERS.
- ② VERIFY EXISTING UTILITY LOCATIONS PRIOR TO RELOCATING. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES PRIOR TO THE RELOCATION OF THE UTILITIES.



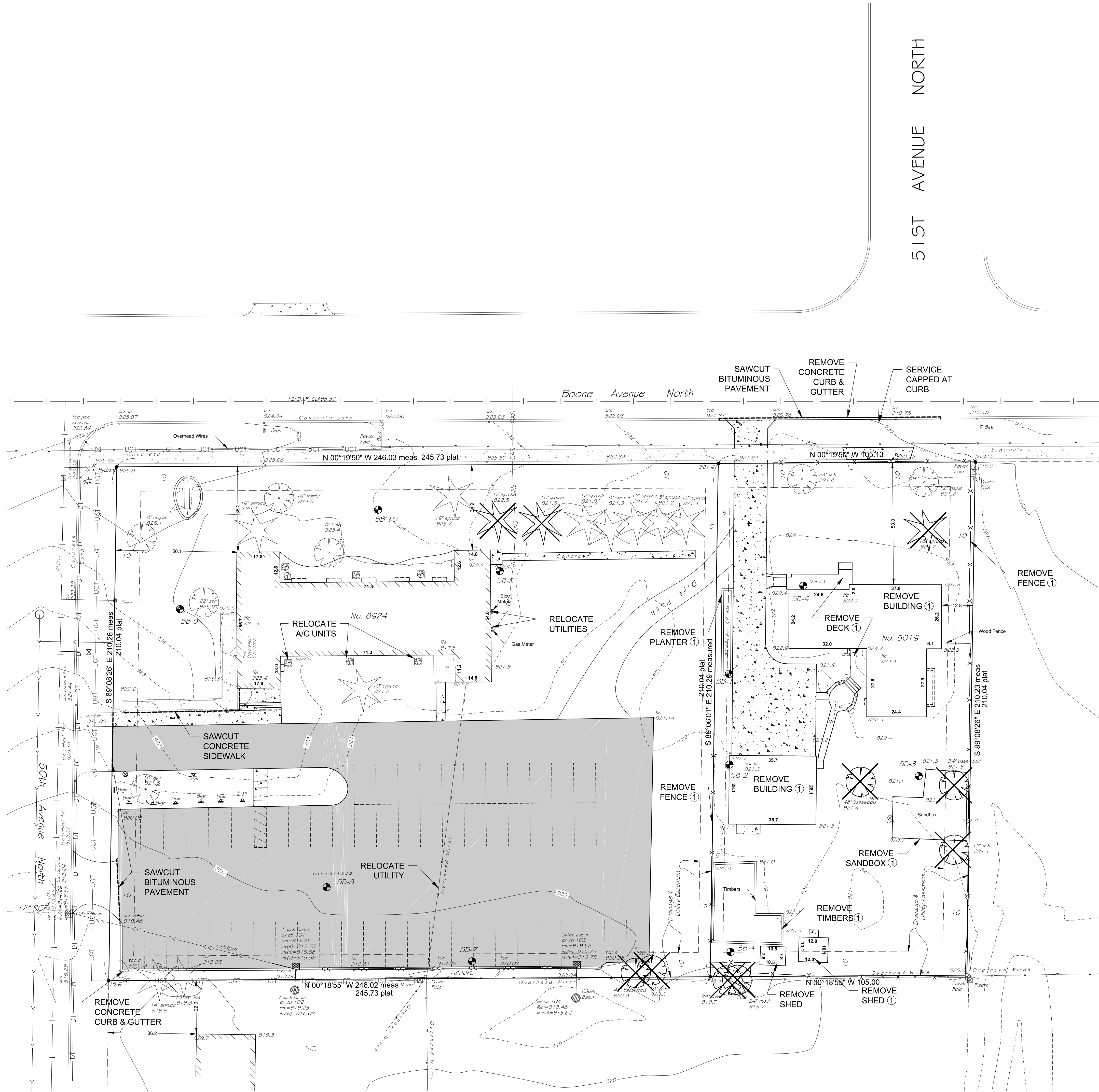
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Dated this 21st day of April, 2016.

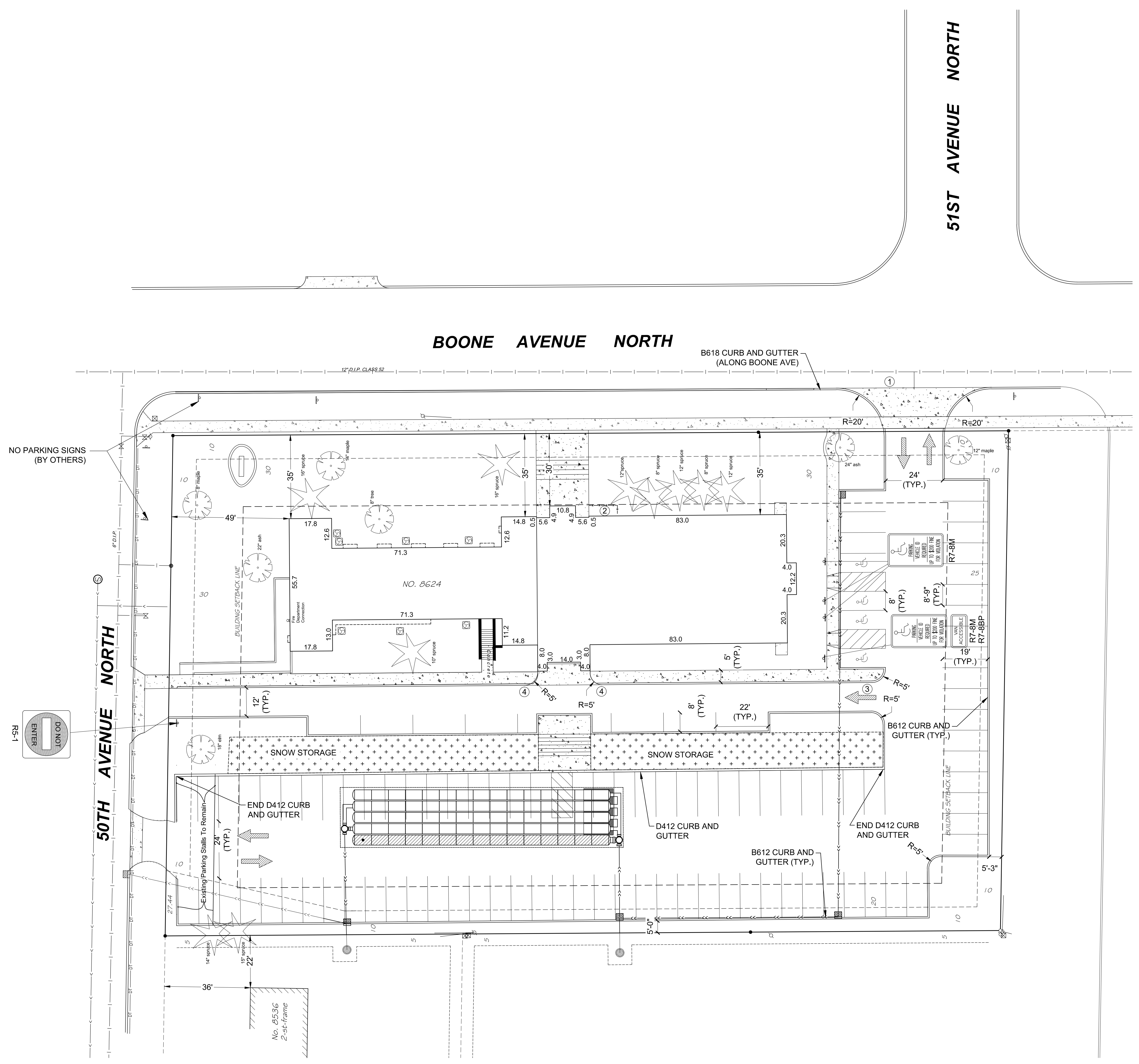
Signed 
 Jeffrey A. Prasch, Minn. Reg. No. 52706

NORTHWEST CHURCH OF CHRIST
NW CHURCH OF CHRIST
 8624 50TH AVENUE NORTH NEW HOPE, MN 55428

DATE
 04.21.16
 PHASE
 DESIGN
 DEVELOPMENT
 PROJECT
 JLG 15143
 SHEET
C001
 EXISTING CONDITIONS
 AND REMOVAL PLAN

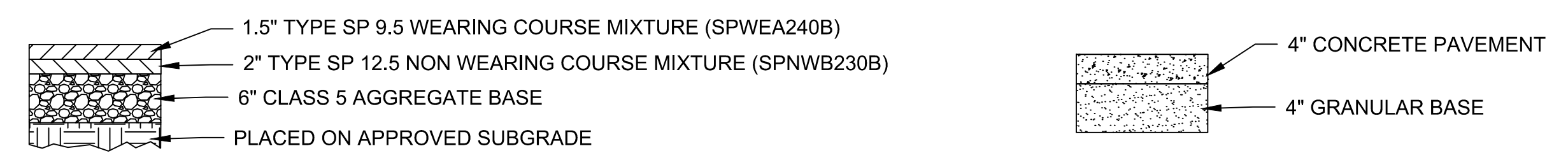


No.	Description	Date
1	City Review #1	4.21.16
2	City Review #2	5.13.16
3	Bid Set	8.05.16



- REFERENCE NOTES:
- CONSTRUCT DRIVEWAY ENTRANCE PER CITY STANDARD PLATES STR-1, STR-8, AND STR-30 ON SHEET C005.
 - SEE ARCHITECTURAL PLANS FOR MECHANICAL AREA SCREENING LOCATION AND TYPE.
 - PROVIDE PAVEMENT ARROW MARKING. PAVEMENT MARKING SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE MN MUTCD.
 - TRANSITION CURB HEIGHT TO MATCH SIDEWALK.

- GENERAL NOTES:
- VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS.
 - MAINTAIN EXISTING GARBAGE OPERATION WITH A SINGLE RESIDENTIAL CONTAINER.
 - ALL BITUMINOUS PAVEMENT SHALL BE CONSTRUCTED PER (1) C002.
 - ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED PER (2) C002.
 - PROVIDE PEDESTRIAN RAMP CONFORMING TO CURRENT ADA STANDARDS. A 4 FT X 4 FT LANDING AREA SHALL BE PROVIDED AT EACH PED RAMP WITH SLOPES IN ALL DIRECTIONS NOT EXCEEDING 2%. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION.

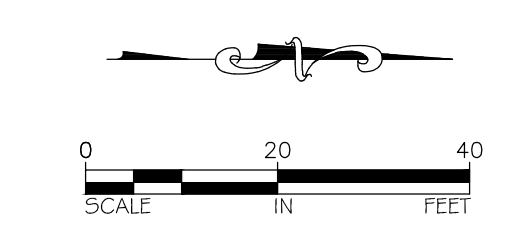


1 C002 PARKING LOT SECTION NOT TO SCALE

2 C002 CONCRETE SIDEWALK NOT TO SCALE

NOTE: USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.05 GAL/SY - 0.07 GAL/SY BETWEEN BITUMINOUS COURSES. THE APPLICATION RATES ARE FOR UNDILUTED EMULSIONS (AS SUPPLIED FROM THE REFINERY) OR MC AND RC LIQUID ASPHALTS.

NOTE: SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%. ANY SIDEWALK EXCEEDING 2% SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.



LOT COVERAGE
 BUILDING = 13.46%
 ASPHALT = 51.13%
 GREEN AREA = 35.41%
 PERCENTAGE = 100.0%

SNOW STORAGE = 10% OF ASPHALT AREA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Dated this 6th day of April, 2016.
 Signed: *Jeffrey A. Prasz*
 Jeffrey A. Prasz, Minn. Reg. No. 52706

51ST AVENUE NORTH

BOONE AVENUE NORTH

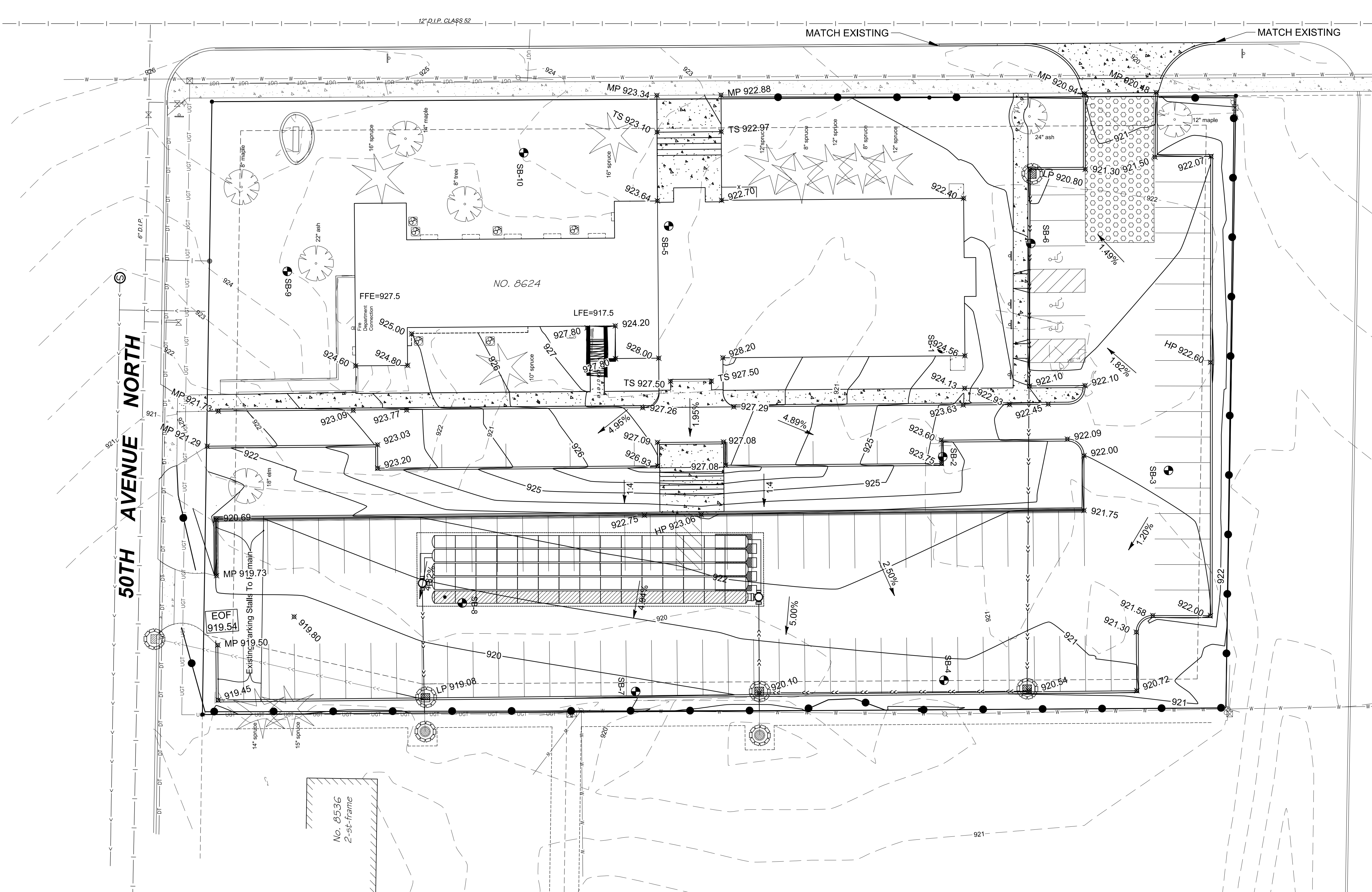
GENERAL CONSTRUCTION AND SOILS NOTES:

1. SITE GRADING AND UTILITY CONSTRUCTION SHALL CONFORM TO THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", THE CITY OF NEW HOPE STANDARD SPECIFICATIONS AND DETAILS AND CITY ENGINEERS ASSOCIATION OF MINNESOTA 2013 EDITION STANDARD SPECIFICATIONS.
2. SALVAGE ALL INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION. IN AREAS OF PARKING LOT, SIDEWALK AND BUILDING CONSTRUCTION, THE UPPER THREE (3) FEET SHALL BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). ALL OTHER AREAS SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE AREA IN THE UPPER ONE (1) FOOT BELOW THE UNDERGROUND STORMWATER SYSTEM SHALL BE COMPACTED TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE MOISTURE CONTENT IN ALL AREAS SHALL BE WITHIN 1.5% OF THE OPTIMUM MOISTURE CONTENT. THE GRADING SUBGRADE SHALL BE CONSTRUCTED OF SUITABLE GRADING MATERIAL. THE FILL SHALL BE PLACED IN 8" TO 12" LOOSE LIFTS.
3. SUITABLE GRADING MATERIAL FOR THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, SILT, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL.
4. ALL EXCAVATED ORGANIC MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE.

EROSION CONTROL NOTES:

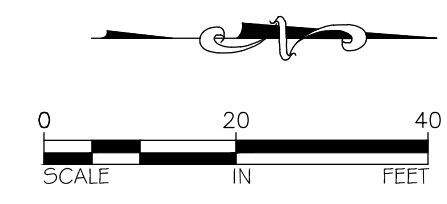
1. EROSION CONTROL SHALL CONFORM TO THE MNDOT EROSION CONTROL HANDBOOK.
2. PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN THE NECESSARY MPCA NPDES STORMWATER PERMIT.
3. ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. BMP'S SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
4. INLET PROTECTION SHALL BE INSTALLED AT ANY INLET THAT MAY RECEIVE RUNOFF FROM THE DISTURBED AREAS OF THE PROJECT.
5. ALL EXPOSED SOILS, INCLUDING STOCKPILES, SHALL BE TEMPORARILY STABILIZED PER MNDOT SPECIFICATION 2575 WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED. ALL STOCKPILES SHALL HAVE SEDIMENT CONTROL DEVICES ALONG THE PERIMETER OF THE STOCKPILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT OVERNIGHT.
6. REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC PAVEMENT AREAS ON A DAILY BASIS OR AS NEEDED.
7. ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSPECTED EVERY SEVEN DAYS, OR WITHIN 24 HOURS OF ALL RAIN EVENTS GREATER THAN 0.5" IN 24 HOURS. INSPECTIONS SHALL BE DOCUMENTED AND LOGS SHALL BE KEPT ON SITE AT ALL TIMES. CORRECTIVE ACTION SHALL BE INITIATED IMMEDIATELY. PHOTOGRAPHS SHALL BE INCLUDED IN THE INSPECTION REPORTS.
8. SILT FENCE, BIO-ROLLS AND INLET PROTECTION DEVICES MUST BE REPAIRED, REPLACED OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES THE HEIGHT OF THE DEVICE. THESE REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.
9. AFTER FINAL GRADING HAS BEEN COMPLETED, ALL EXPOSED SOILS SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS. PERMANENT STABILIZATION SHALL CONSIST OF 4 INCHES TOPSOIL AS WELL AS SEED, FERTILIZER AND MULCH. METHODS AND RATES SHALL BE IN ACCORDANCE WITH MNDOT SPECIFICATION 2575 AND THE MNDOT SEEDING MANUAL. THE SEED MIX SHALL BE MNDOT SEED MIX 25-131 "LOW MAINTENANCE TURF".
10. PROVIDE ADDITIONAL EROSION CONTROL WHICH MAY NOT BE SHOWN ON THE PLANS, CONSISTENT WITH THE MEANS, METHODS AND SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH PERMIT REQUIREMENTS AND AUTHORITIES HAVING JURISDICTION.
11. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (FLOODING/FREEZING) HAS BEEN IDENTIFIED. THE PERMITTED SHALL RECEIVE WRITTEN CORRESPONDENCE FROM THE CITY ENGINEER VERIFYING THE NEED FOR REMOVAL.
12. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED FROM THE SITE WITHIN THIRTY (30) DAYS AFTER PERMANENT STABILIZATION.
13. THE CONTRACTOR SHALL FILE A NOTICE OF TERMINATION WITH THE MPCA AFTER FINAL STABILIZATION HAS BEEN APPROVED.
14. IF NECESSARY, A DEWATERING PLAN SHALL BE APPROVED PRIOR TO DEWATERING ACTIVITIES.
15. THE SITE IS WITHIN THE SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION AND CITY OF NEW HOPE JURISDICTION.

No.	Description	Date
1	City Review #1	4.21.16
2	City Review #2	5.13.16
3	Std Set	8.05.16



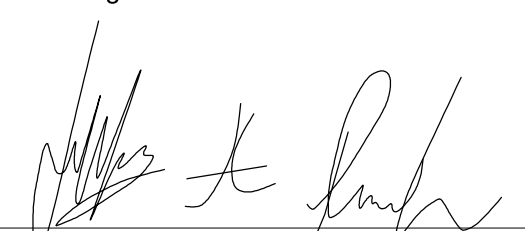
LEGEND

—DT—	EXISTING DRAIN TILE
—GAS—	EXISTING UNDERGROUND GAS
—UT—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING OVERHEAD WIRES
—SS—	EXISTING STORM SEWER
—WM—	EXISTING WATERMAIN
—900—	EXISTING CONTOUR
—900—	PROPOSED CONTOUR
—C—	PROPOSED CURB
—C—	PROPOSED TIP-OUT CURB
—EW—	PROPOSED EGRESS WELL
—S—	SILT FENCE
—SS—	PROPOSED STORM SEWER
—W—	PROPOSED WALL
—C—	EXISTING CONCRETE
—C—	PROPOSED CONCRETE
—R—	ROCK CONSTRUCTION ENTRANCE
—IP—	INLET PROTECTION
—CB—	EXISTING CATCH BASIN
—CB—	PROPOSED CATCH BASIN
—YI—	EXISTING YARD INLET
—GV—	EXISTING GATE VALVE
◆ 919.80	PROPOSED SPOT ELEVATION



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Dated this 6th day of April, 2016.

Signed 
 Jeffrey A. Praszch, Minn. Reg. No. 52706

NORTHWEST CHURCH OF CHRIST
NW CHURCH OF CHRIST
 8624 50TH AVENUE NORTH NEW HOPE, MN 55428

DATE
04.06.16

PHASE
DESIGN

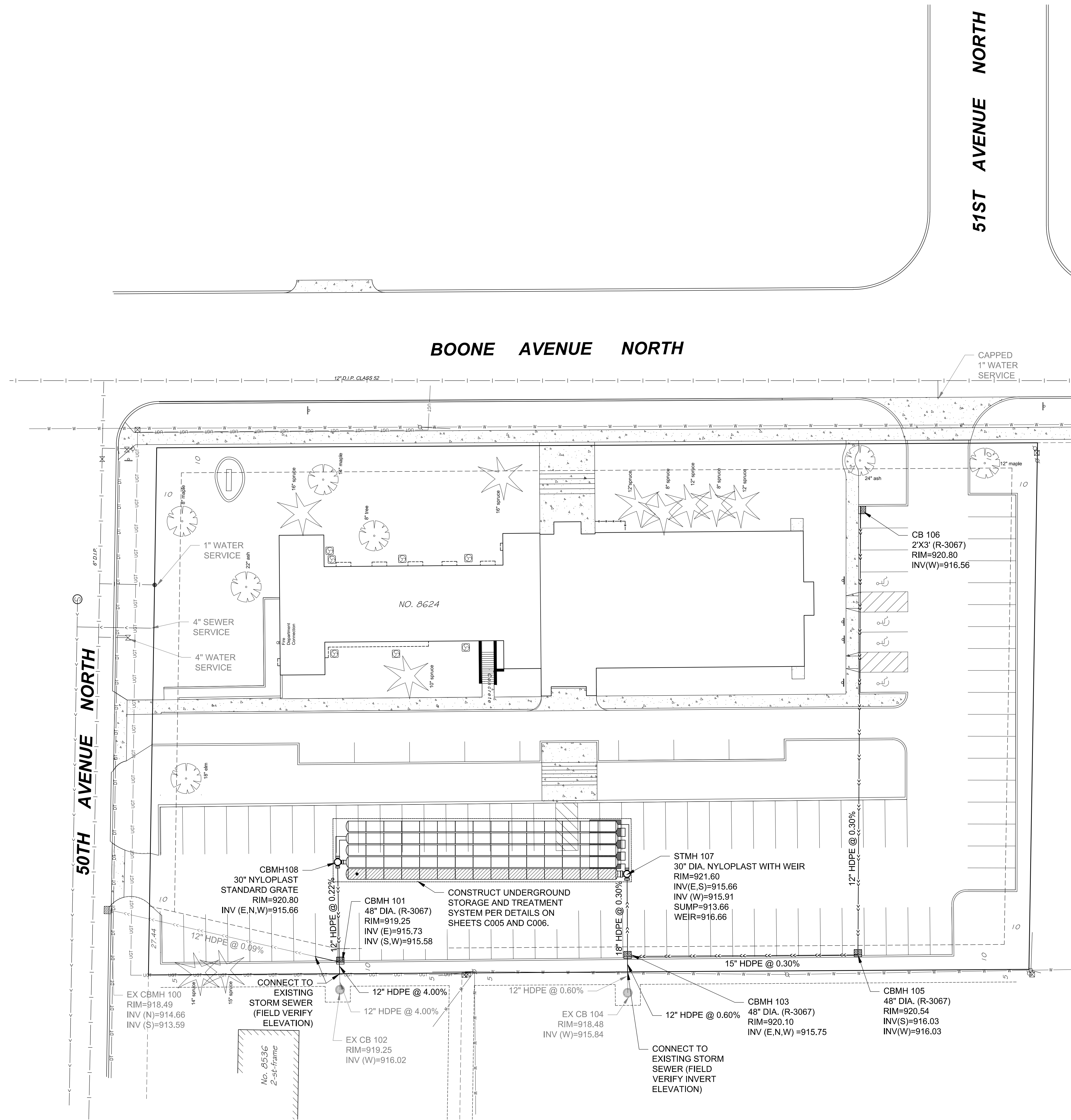
DEVELOPMENT

PROJECT
JLG 15143

SHEET
C003

GRADING, DRAINAGE AND
EROSION CONTROL PLAN

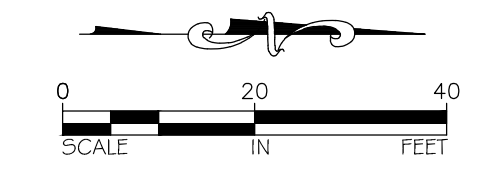
No.	Description	Date
1	Storm Structure	4.27.16
2	City Review #2	5.13.16
3	Bid Set	8.05.16



LEGEND


	PROPERTY LINE
	EASEMENT
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	EXISTING DRAINTILE
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND TELEPHONE
	EXISTING UNDERGROUND GAS
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN
	EXISTING YARD INLET

- UTILITY NOTES:**
- UTILITY INFORMATION PROVIDED BY THE CITY OF NEW HOPE. FIELD VERIFY LOCATIONS AND SIZES PRIOR TO CONSTRUCTION.
 - ALL HDPE STORM SEWER SHALL BE DUAL WALL SMOOTH INTERIOR.



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Dated this 21st day of April, 2016.

Signed 
 Jeffrey A. Prash, Minn. Reg. No. 52706

NORTHWEST CHURCH OF CHRIST
NW CHURCH OF CHRIST
 8624 50TH AVENUE NORTH NEW HOPE, MN 55428

DATE
04.21.16

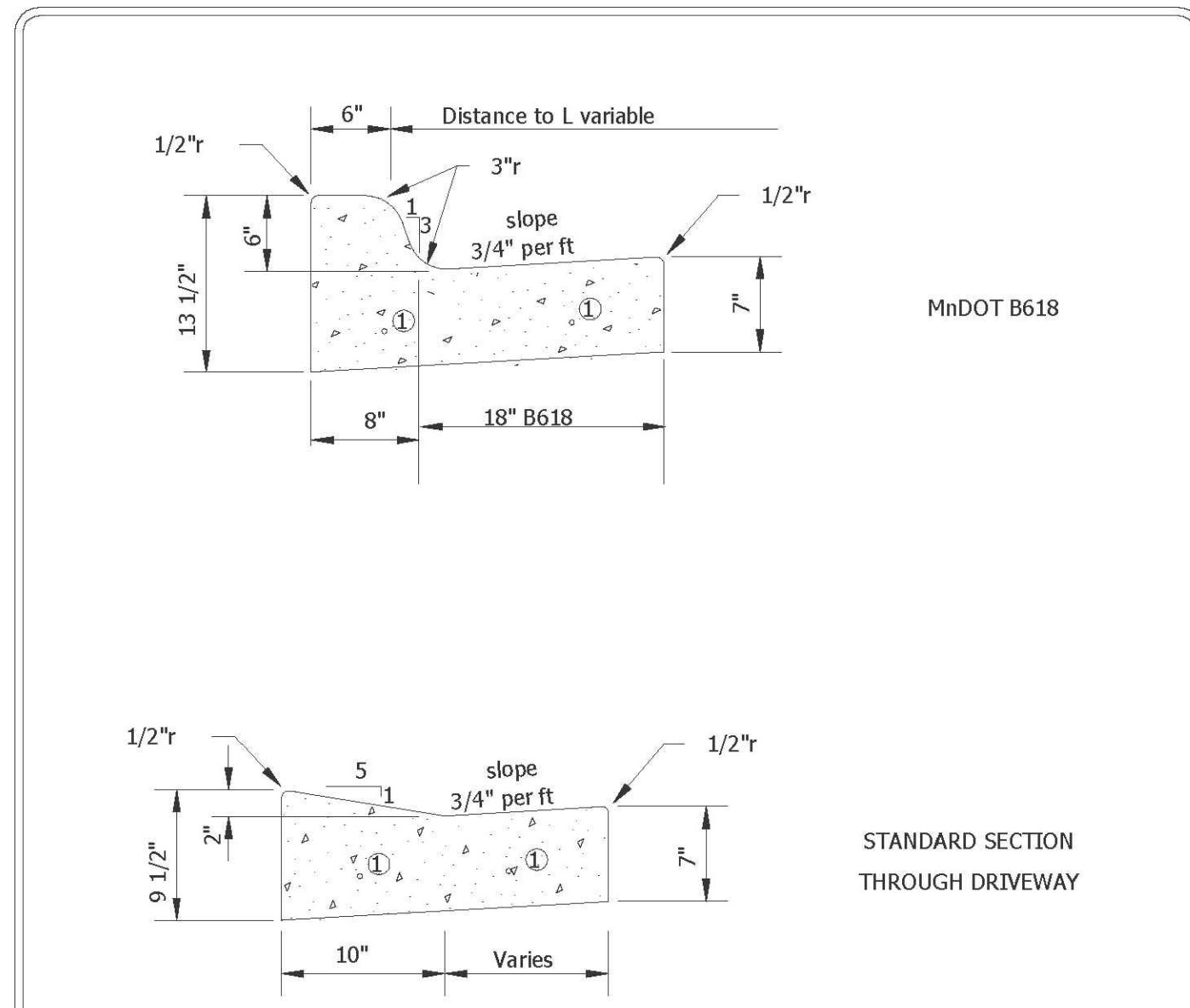
PHASE
DESIGN

DEVELOPMENT

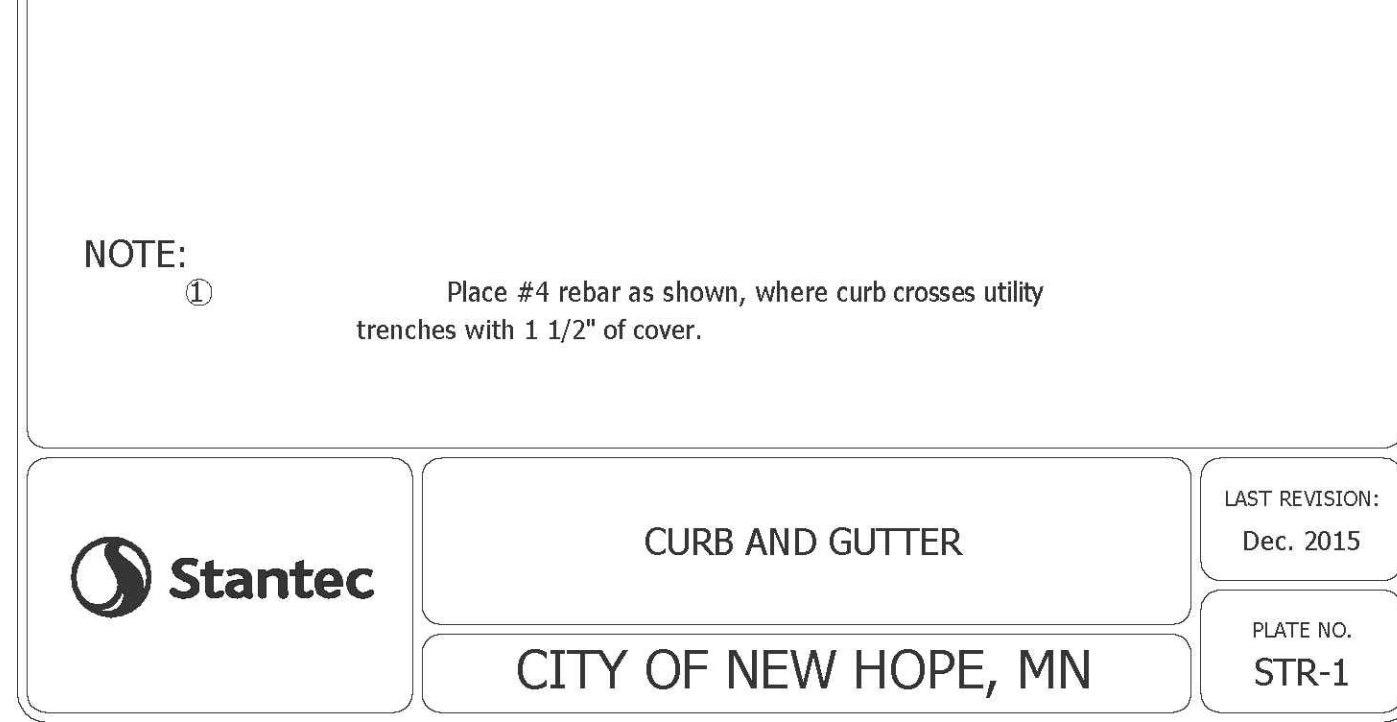
PROJECT
JLG 15143

SHEET
C004

UTILITY PLAN



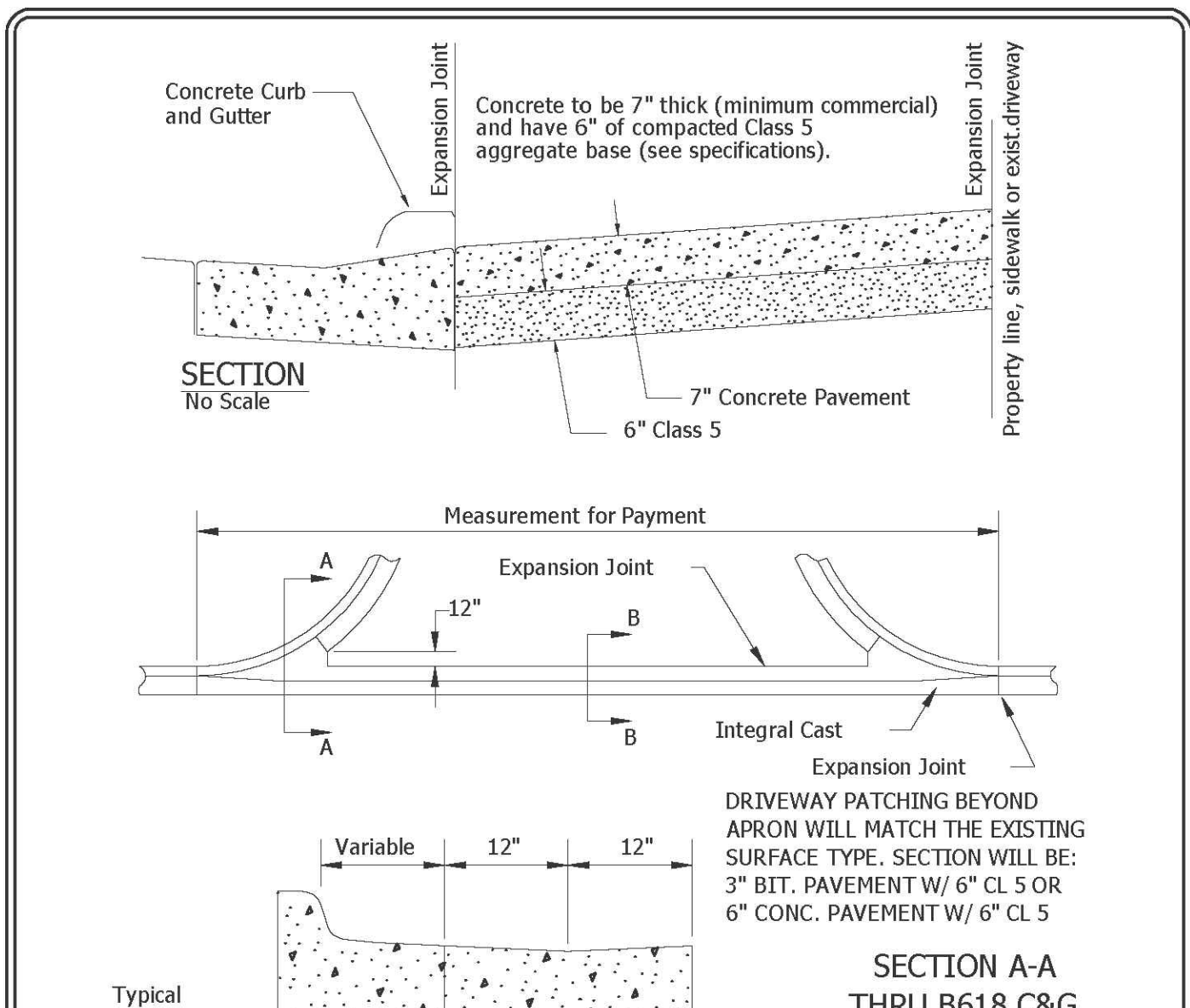
MnDOT B618



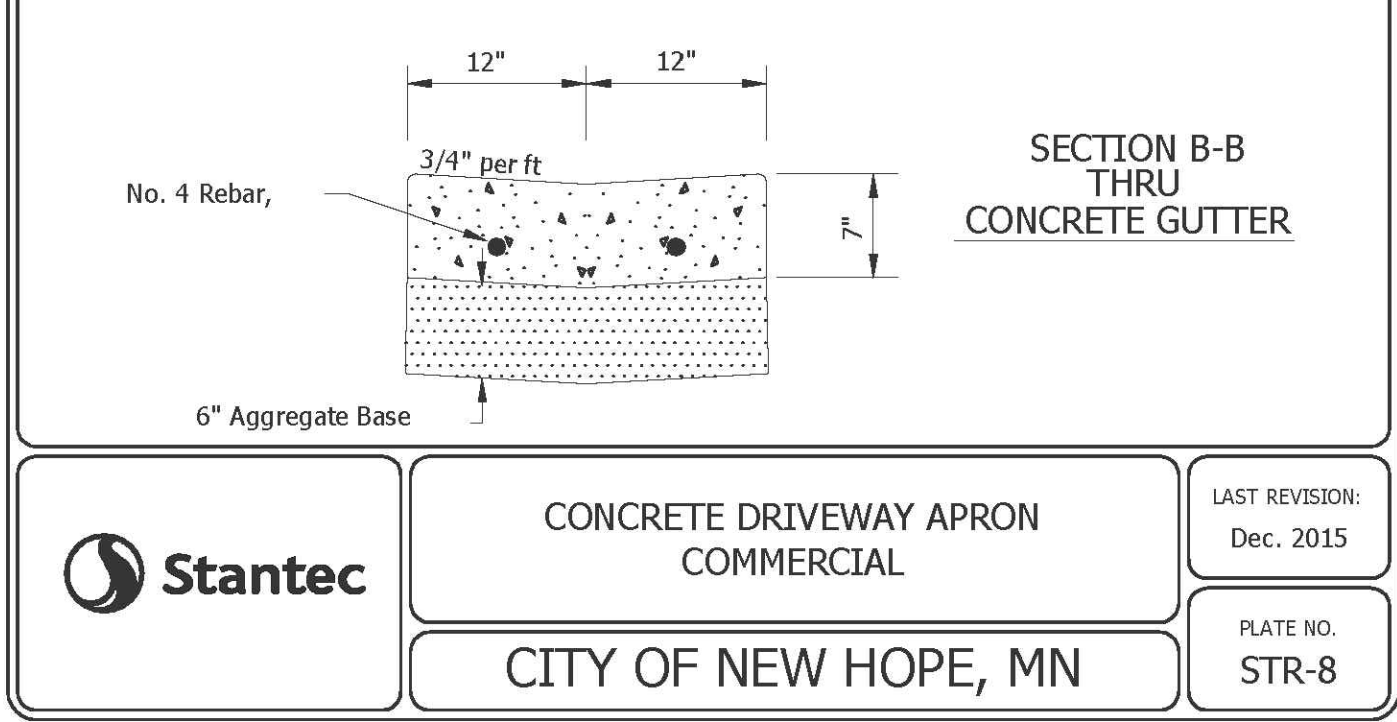
STANDARD SECTION THROUGH DRIVEWAY

NOTE:
 ① Place #4 rebar as shown, where curb crosses utility trenches with 1 1/2\"/>

	CURB AND GUTTER	LAST REVISION: Dec. 2015
	CITY OF NEW HOPE, MN	PLATE NO. STR-1



SECTION No Scale



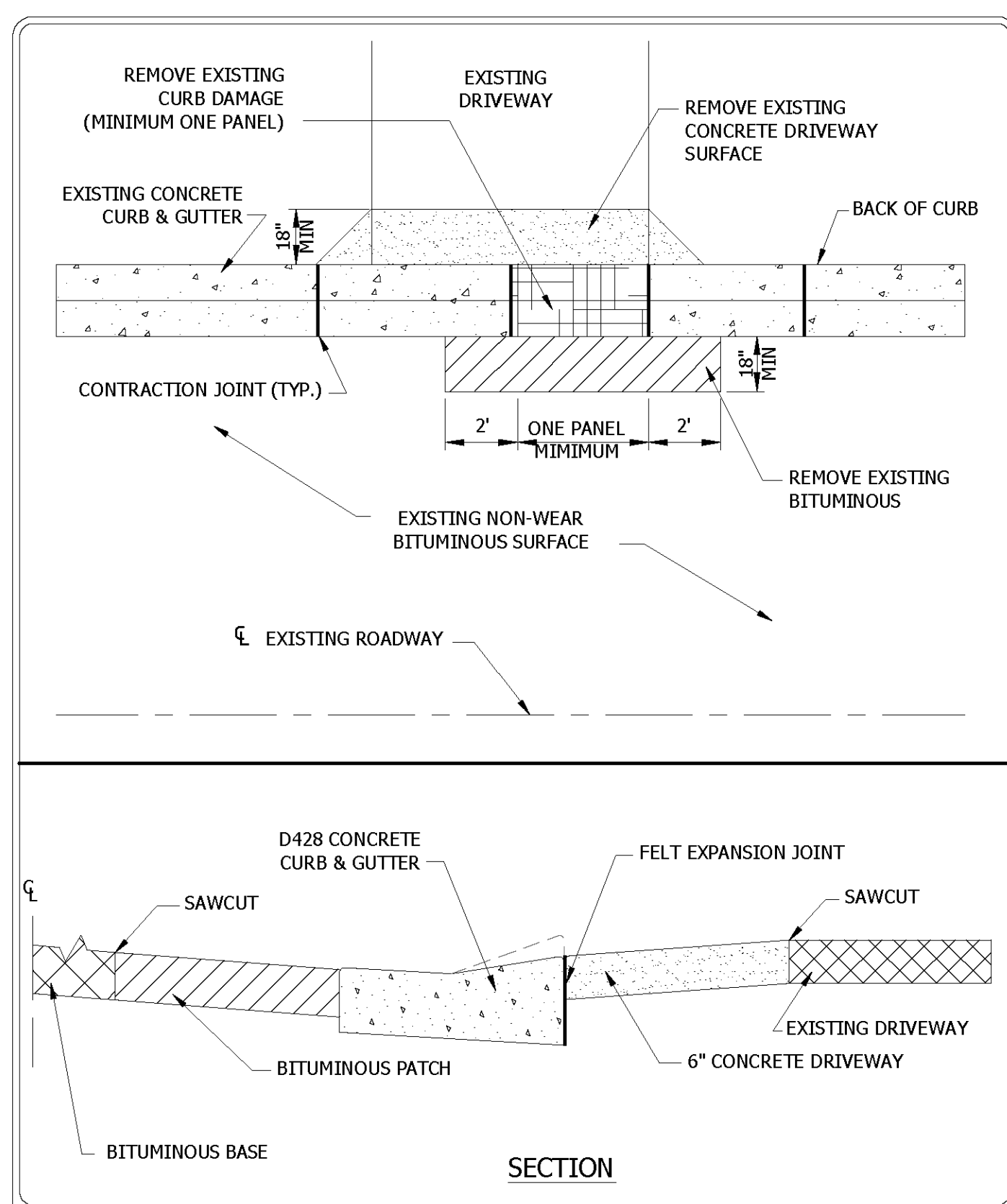
SECTION A-A THRU B618 C&G

SECTION B-B THRU CONCRETE GUTTER

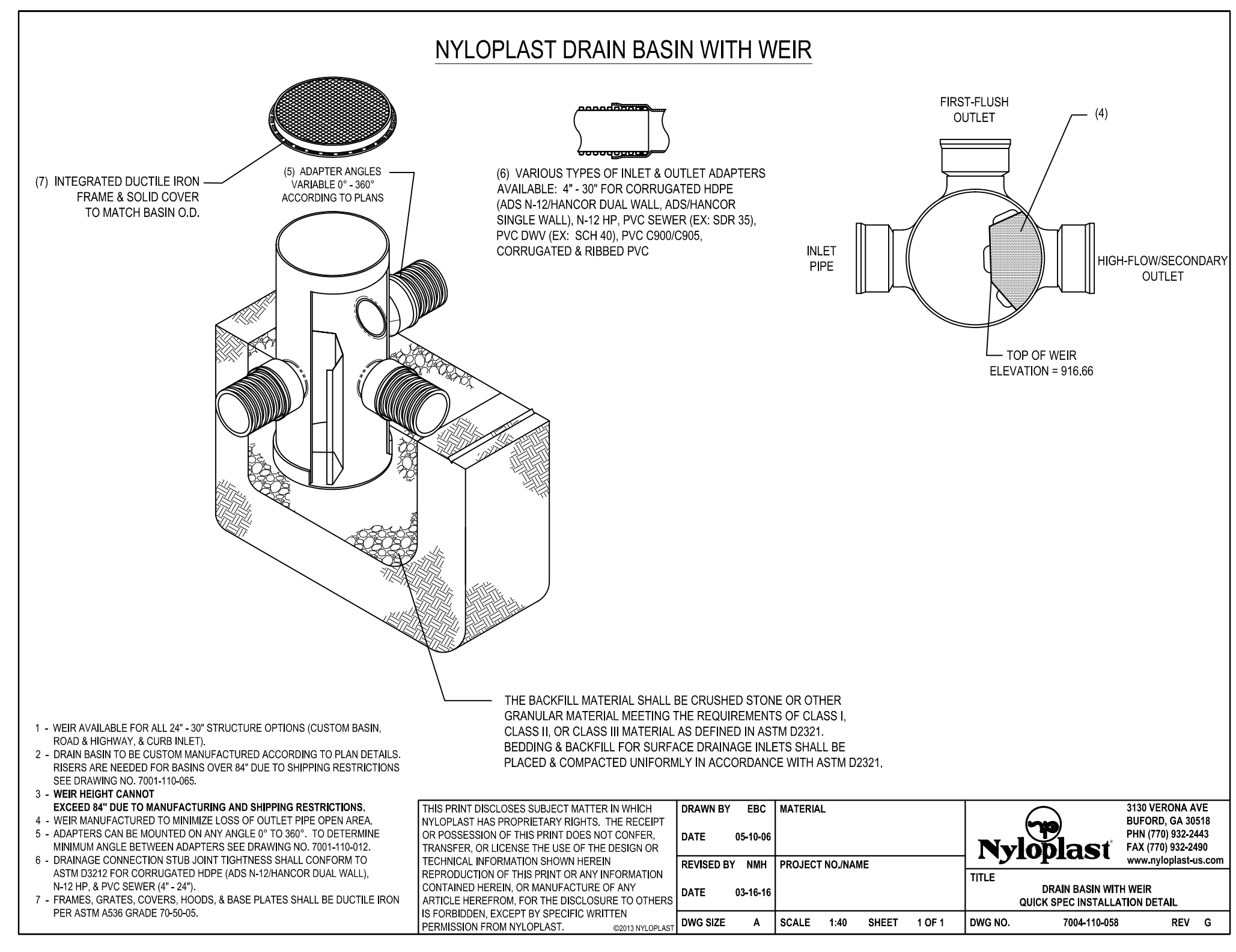
	CONCRETE DRIVEWAY APRON COMMERCIAL	LAST REVISION: Dec. 2015
	CITY OF NEW HOPE, MN	PLATE NO. STR-8

PROJECT INFORMATION ENGINEERED BY: JIM MERCHLEWITZ PRODUCT MANAGER: JIM MERCHLEWITZ@ADS-PIPE.COM TOM ROCONEY ADS SALES REP: 612-796-5552 TOM ROCONEY@ADS-PIPE.COM PROJECT NO.: 142286		 ADVANCED DRAINAGE SYSTEMS, INC.	
NW CHURCH OF CHRIST NEW HOPE, MN			
STORMWATER CHAMBER SPECIFICATIONS		IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM	
<ol style="list-style-type: none"> CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM D2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE: <ol style="list-style-type: none"> A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.86 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY. 		<ol style="list-style-type: none"> STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-740 CONSTRUCTION GUIDE". CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. <ul style="list-style-type: none"> STONESHOTTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEALED PRIOR TO PLACING STONE. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2" (20-50 mm). THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF. 	
NOTES FOR CONSTRUCTION EQUIPMENT		<ol style="list-style-type: none"> STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-740 CONSTRUCTION GUIDE". THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED: <ul style="list-style-type: none"> NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. NO RUBBER TREAD LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-740 CONSTRUCTION GUIDE". WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740DC-740 CONSTRUCTION GUIDE". FULL 38" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. 	
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.		CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.	

No.	Description	Date
1	Storm Sewer	4.27.16
2	Bid Set	8.05.16



	CONCRETE CURB REPLACEMENT DRIVE LOCATION (CONCRETE D/W APRON)	LAST REVISION: Dec. 2015
	CITY OF NEW HOPE, MN	PLATE NO. STR-30



1 - WEIR AVAILABLE FOR ALL 30" - 36" STRUCTURE OPTIONS (CUSTOM BASIN, HOUSING & CURB INLETS) 2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. REVISIONS ARE REQUIRED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 100-110466. 3 - WEIR HEIGHT CANNOT EXCEED 48" DUE TO MANUFACTURING AND SHIPPING RESTRICTIONS. 4 - WEIR MANUFACTURED TO MINIMIZE LOSS OF OUTLET PIPE OPEN AREA. 5 - ADAPTERS OR ARE INSTALLED AT AN ANGLE OF 10, 20, 30 OR 45 DEGREES. MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 100-110412. 6 - DRAINAGE CONNECTION TUBING GANT THICKNESS SHALL CONFORM TO ASTM D3351 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), 16-20# PVC SEWER (4" - 48"), 16-20# PVC SEWER (4" - 48"). 7 - FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 150-04.	(1) INTEGRATED DUCTILE IRON FRAME & SOLID COVER TO MATCH BASIN O.D. (2) ADAPTER ANGLES W/ANGLE OF 10°-45° ACCORDING TO PLANS (3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 36" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADHANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SDR 40), PVC COORDRICKS, CORRUGATED & RIBBED PVC (4) FIRST-FLUSH OUTLET (5) HIGH-FLOW/SECONDARY OUTLET (6) TOP OF WEIR ELEVATION = 916.88	THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL, MEETING THE REQUIREMENTS OF CLASS 1, CLASS II, OR CLASS III MATERIAL, AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.	(THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONSTITUTE A TRANSFER OR LICENSE OF THE DESIGN OR TECHNICAL INFORMATION OR INFORMATION REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. 8000 01/01/2016)	DRAWN BY: EBC DATE: 05-10-06 REVISION BY: MNH DATE: 02-15-16 DWS SIZE: A SCALE: 1:40 SHEET: 1 OF 1	3131 YERKONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2446 www.nyloplast.com	NYLOPLAST TITLE: DRAIN BASIN WITH WEIR QUICK SPEC INSTALLATION DETAIL DWS NO.: 704-170-028 REV: G
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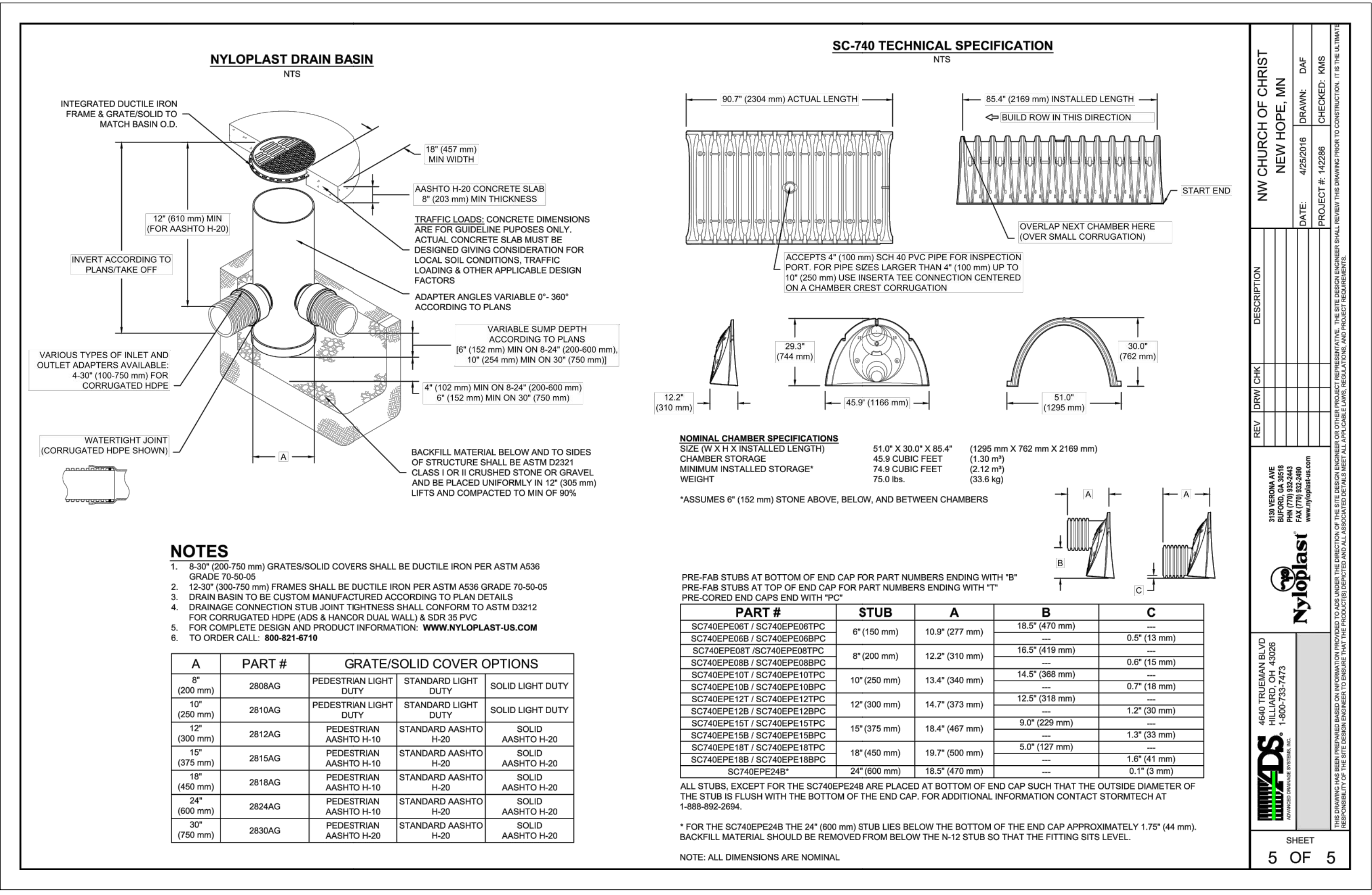
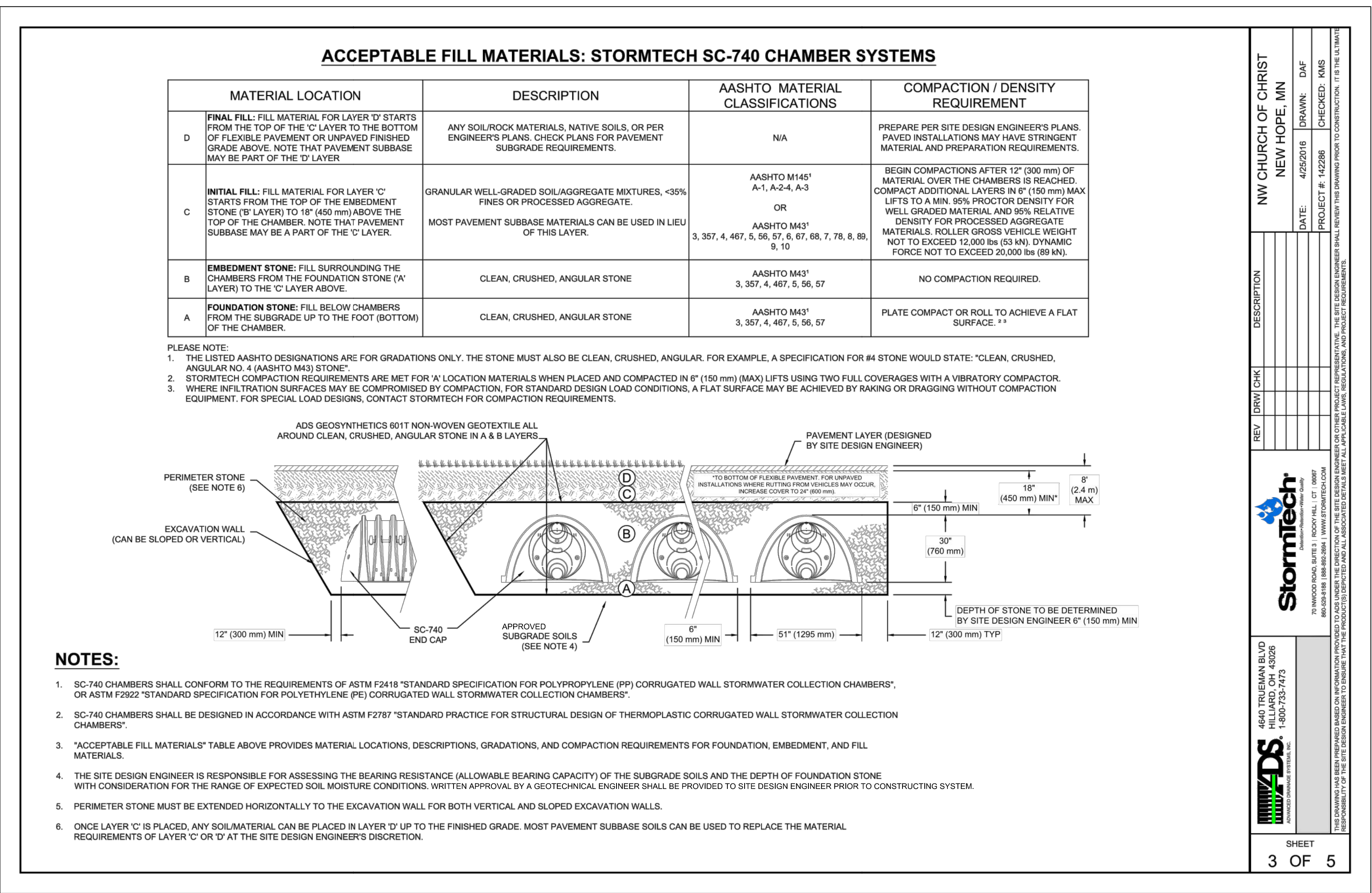
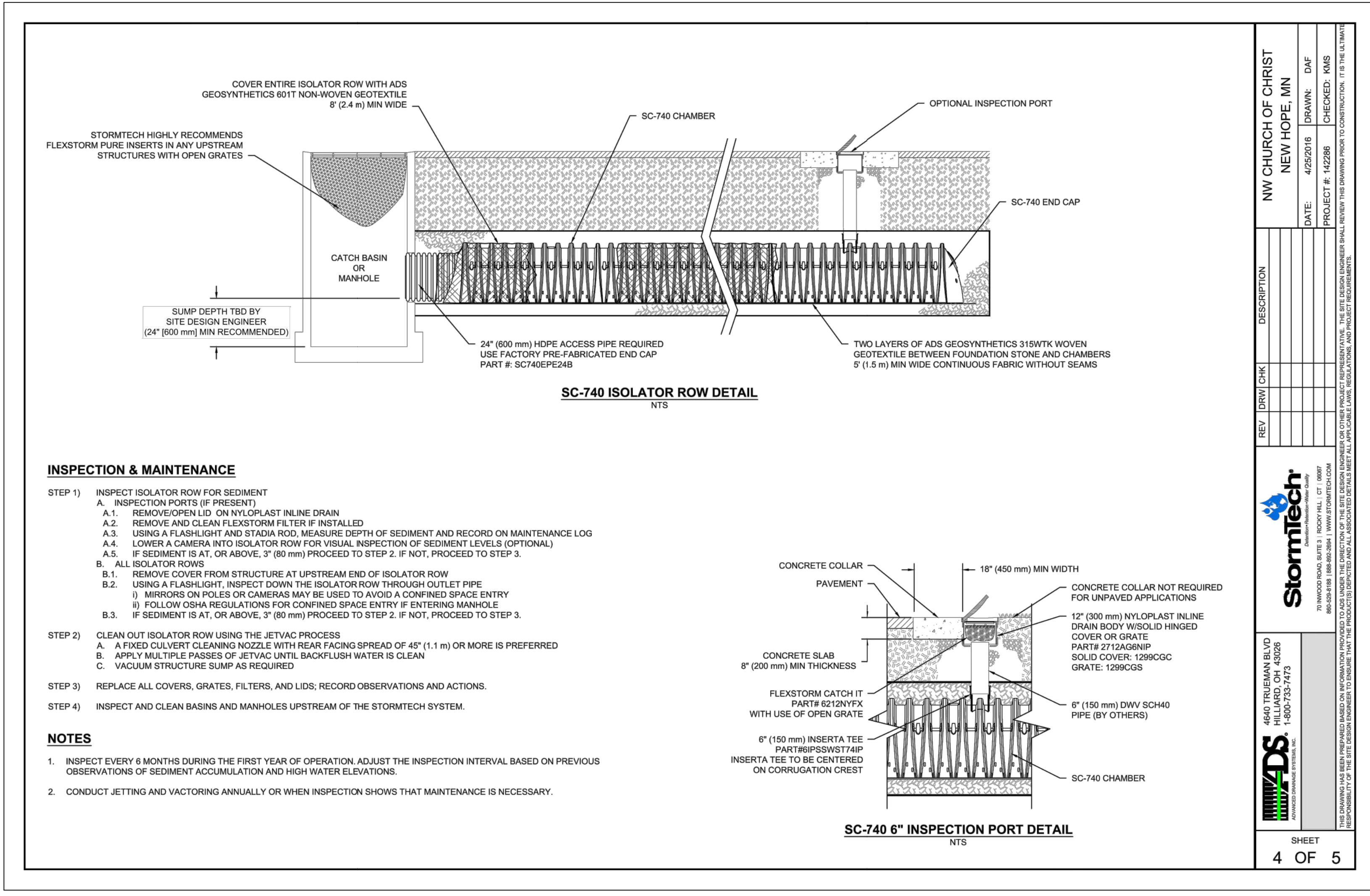
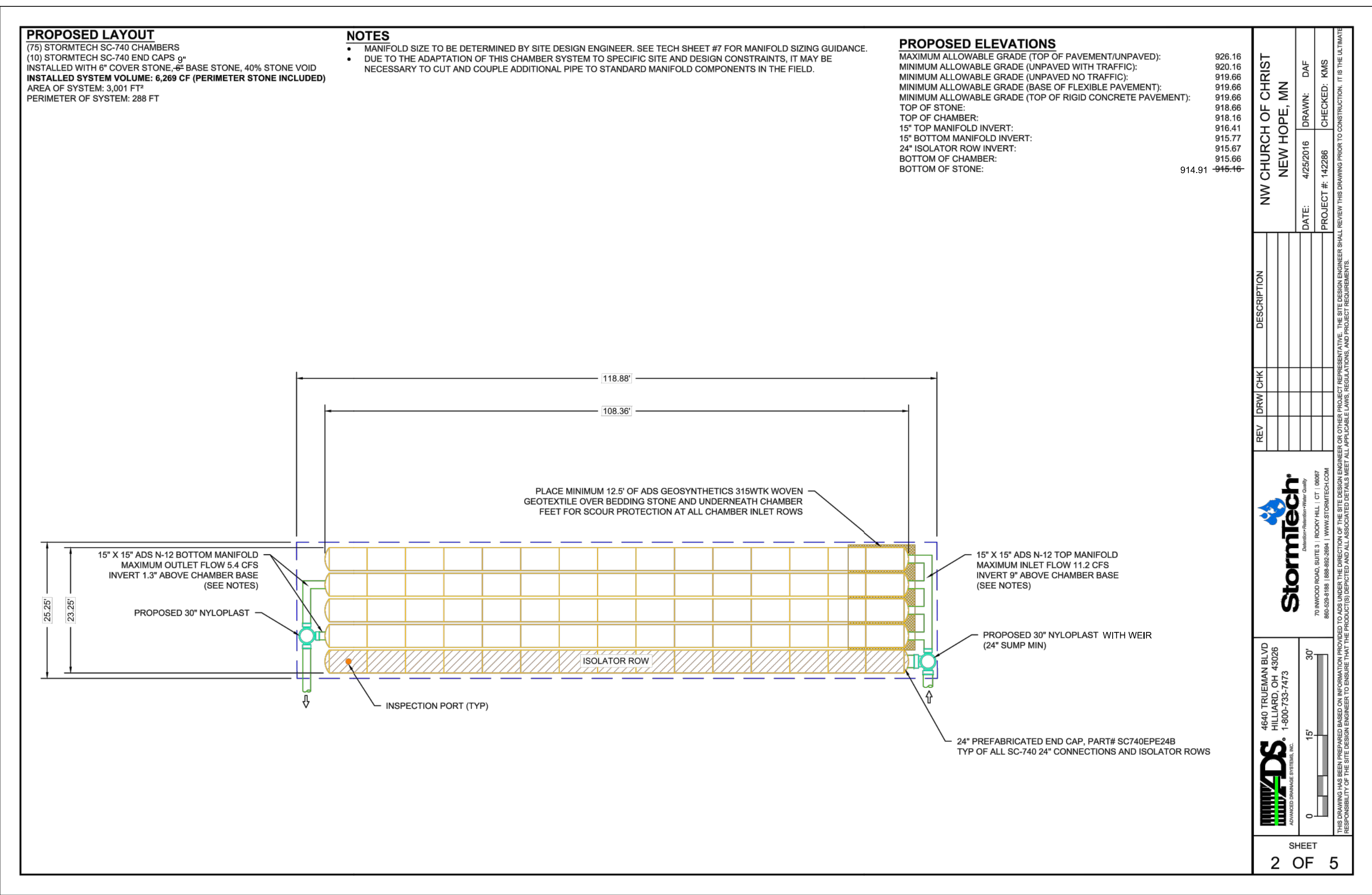
NORTHWEST CHURCH OF CHRIST
NW CHURCH OF CHRIST
 8624 50TH AVENUE NORTH NEW HOPE, MN 55428

DATE	04.21.16
PHASE	DESIGN
PROJECT	JLG 15143
SHEET	C005
DETAILS	

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed:
 Jeffrey A. Prasch, Minn. Reg. No. 52706

Date: 21st day of April, 2016.



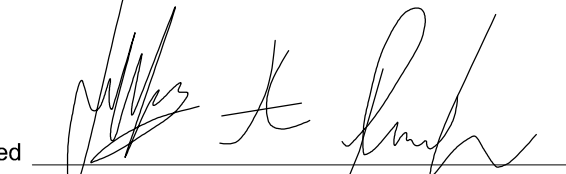
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No.	Description	Date
2	City Review #2	05.13.16
3	Bid Set	08.05.16

NORTHWEST CHURCH OF CHRIST
NW CHURCH OF CHRIST
8624 50TH AVENUE NORTH NEW HOPE, MN 55428

DATE
04.27.16
PHASE
DESIGN
PROJECT
JLG 15143
SHEET
C006
DETAILS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Dated this 27th day of April, 2016.
Signed 
Jeffrey A. Prasch, Minn. Reg. No. 52706