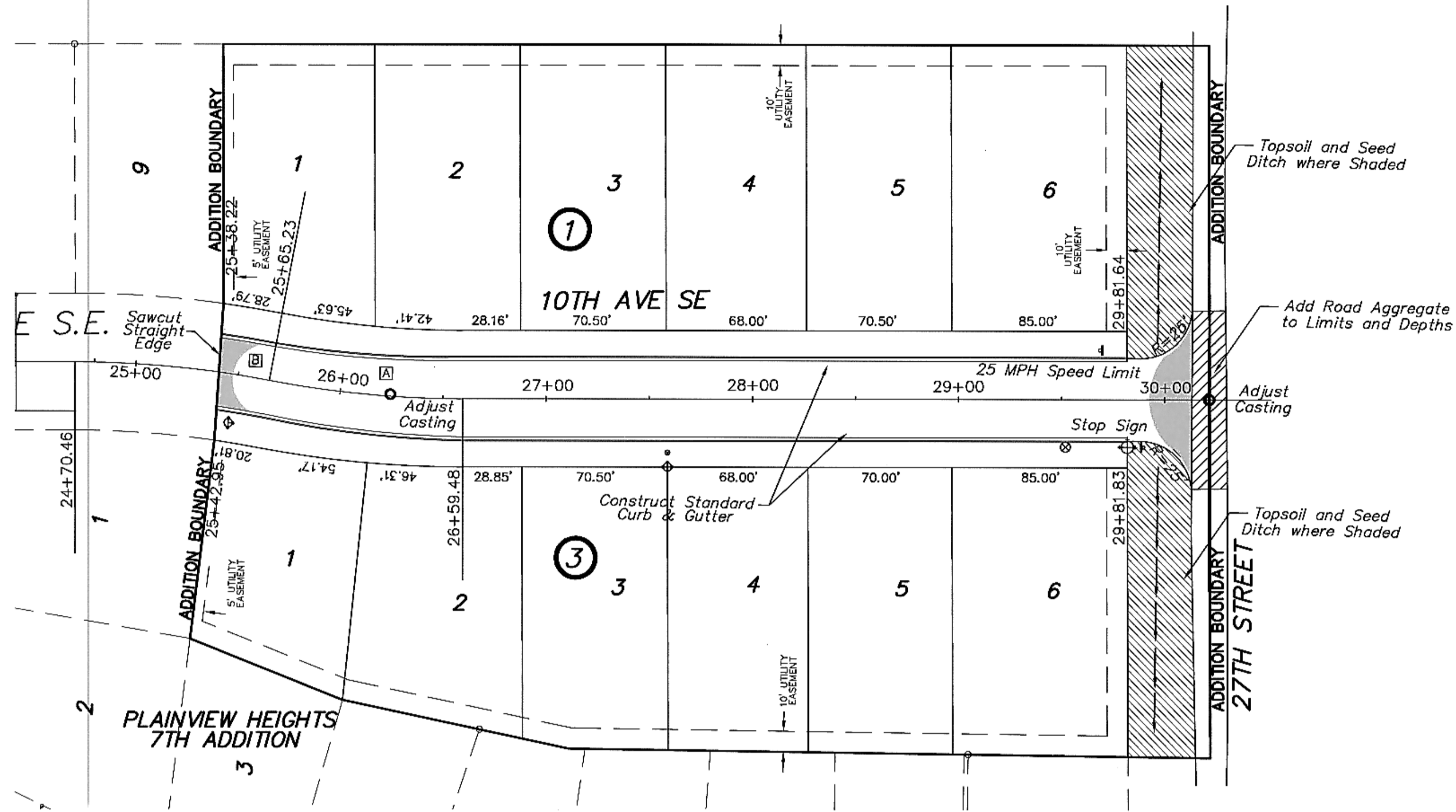
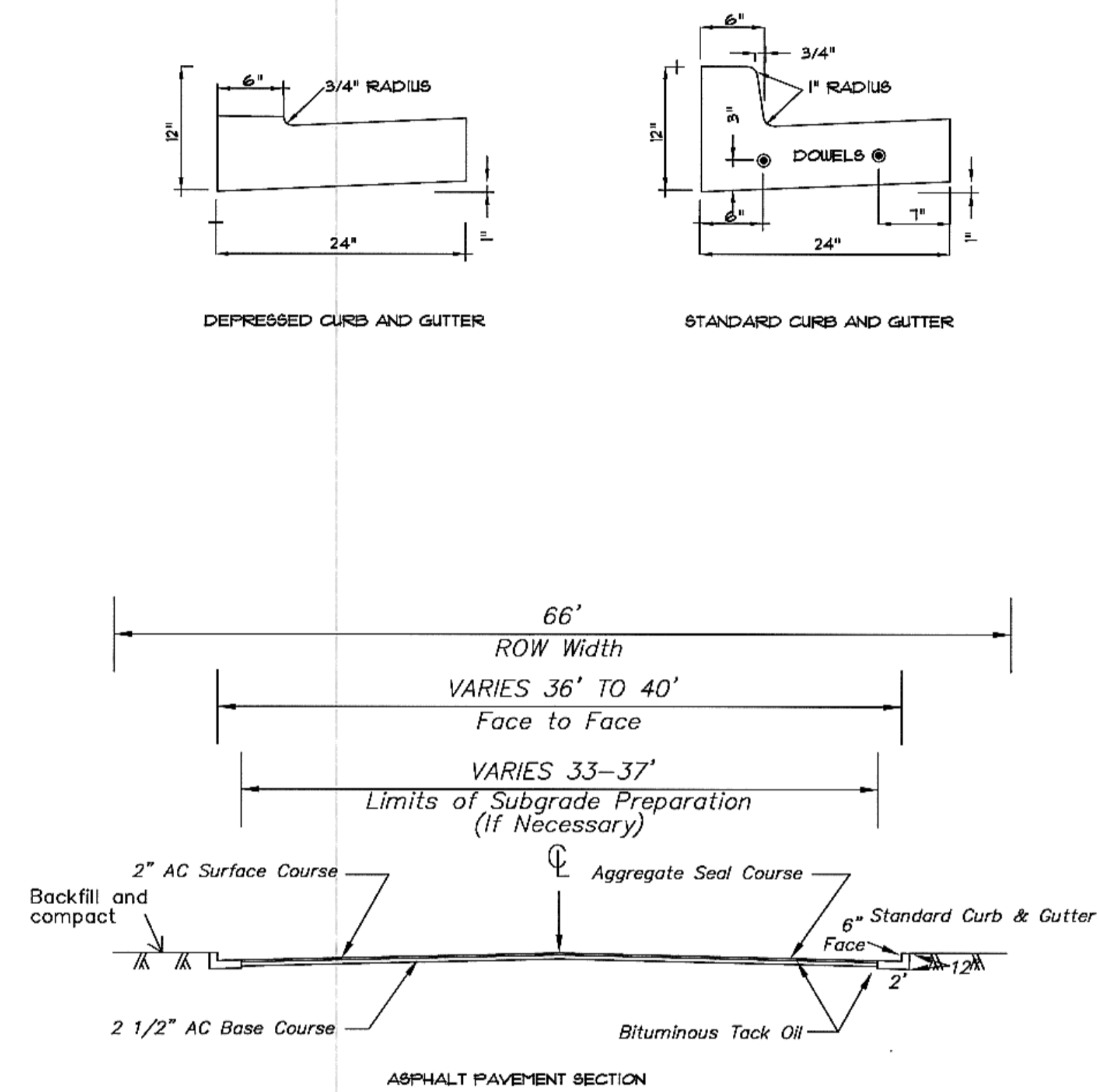


SCALE - 1"=50'



Sta. 25+41.64 Rt.
Begin Curb & Gutter
Sta. 25+39.29 Lt.
Begin Curb & Gutter

Sta. 29+81.83 Rt.
End Curb & Gutter
Sta. 29+81.64 Lt.
End Curb & Gutter



WARRANTY/ DISCLAIMER
The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warranty these plans as constructed except in the specific cases where Swenson, Hagen & Co. personnel inspect and control the physical construction on a full time basis.

SAFETY NOTICE TO CONTRACTOR
In accordance with generally accepted construction practices the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business hours.

NOTICE TO CONTRACTOR
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. Underground locations shall be requested by using the "One Call" number 1-800-795-0555.

- CONSTRUCTION NOTES**
- FOR BIDDING, THE CONTRACTOR SHALL DETERMINE THE QUANTITY OF WORK ASSOCIATED WITH GRADING THE CURRENT ROUGH GRADE INTO THE PROPER FINISH SUBGRADE SHAPE. STAKES ON CENTERLINE WITH CUTS AND FILLS TO TOP OF CURB HAVE BEEN PLACED ON THE CENTERLINE TO ASSIST THE CONTRACTOR IN DETERMINING THE QUANTITY OF THE GRADING WORK.
 - GRADE SUBGRADE FOR CURB/GUTTER AND STREET CONSTRUCTION. ALL COSTS FOR GRADING SHALL BE CONSIDERED INCIDENTAL TO THE GRADING BID ITEM.
 - SUBGRADE PREPARATION SHALL ONLY BE PERFORMED IF DEEMED NECESSARY BY THE ENGINEER.
 - EXCESS SOILS EXCAVATED DURING THE GRADING STAGE SHALL BE EVENLY SPREAD IN THE RIGHT OF WAY BEHIND THE FUTURE CURB AND GUTTER. IF EXCESS SOILS REMAIN AFTER FILLING BEHIND THE CURB SOILS MAY BE EVENLY SPREAD ON THE LOTS WHERE DIRECTED BY THE ENGINEER.
 - CONSTRUCT CONCRETE ITEMS PER DETAILS ON THIS SHEET. AFTER THE CURB AND GUTTER HAS GAINED SUFFICIENT STRENGTH, SOILS SHALL BE BACKFILLED AGAINST THE CURB, ALL WORK INCLUDING BACKFILLING SHALL BE CONSIDERED INCIDENTAL TO THE STANDARD CURB AND GUTTER BID ITEM.
 - THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL SURVEY MONUMENTS. MONUMENTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE BY A REGISTERED SURVEYOR.
 - CURB DROPS FOR DRIVEWAYS WILL BE CONSTRUCTED DURING THE CONSTRUCTION OF THE CONCRETE CURB/GUTTER. THE LOCATIONS OF THE DRIVEWAYS ARE SHOWN WITH STATIONING ON THE PLAN. FLARES SHALL BE 4' WIDE. DROP CURB SHALL BE CONSIDERED STANDARD GUTTER FOR MEASUREMENT AND PAYMENT.
 - CONSTRUCT AC PAVEMENT AND AGGREGATE SEAL COURSE PER THE DETAIL ON THIS SHEET.
 - CONSTRUCT STREET LIGHT IMPROVEMENTS (SEE SHEET 3) AS SHOWN FOLLOWING SPECIFICATION REQUIREMENTS AND DETAILS (SEE SHEET 4).
 - ALL HEAVY TRUCKS SHALL USE TRUCK ROUTES. TRAVEL ON RESIDENTIAL STREETS NOT LABELED AS A TRUCK ROUTE SHALL BE PROHIBITED.
 - TOPSOIL (6") AND SEED SHADED AREAS OR WHERE DIRECTED BY THE ENGINEER. SHAPE AND SMOOTH TO DRAIN.
 - INSTALL SIGNAGE WHERE SHOWN PROTECTING ALL EXISTING UTILITIES. ALL SIGNAGE SHALL CONFORM WITH THE REQUIREMENTS SHOWN ON SHEET 10 OF THE LAKEWOOD 2ND PLANS.

CURVE	RADIUS	LENGTH	TANGENT	DELTA
A	500.00'	94.26'	47.27'	10°48'04"
B	500.00'	24.80'	12.40'	02°50'30"

APPROXIMATE TOTAL QUANTITIES

Item	Quantity
Subgrade Items	
Grading	1 LS
Subgrade Preparation (6" Deep)	886 SY
Subgrade Preparation (12" Deep)	886 SY
Asphalt Items	
2 1/2" AC Base Course (Class B)	252 TON
2" AC Surface Course (Class B)	202 TON
Bituminous Tack Oil	110 GAL
Aggregate Seal Course	1772 SY
Adjust Manhole Casting	2 EA
Concrete Items	
Standard Curb and Gutter	884 LF
Miscellaneous Items	
Topsoil & Seeding (Class 1)	1055 SF
Road Aggregate	25 TON
Signage	1 LS
Lighting Items	
Type B Street Light Unit	3 EA
Three #4 Conductors	375 LF
Two #4 Conductors	225 LF
Trenching (27" Deep)	500 LF
2" Conduit (Laid)	75 EA
Sodding	20 SY
Existing Ckt. Disc/Reconnections	1 Lot

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E-mail: ms@swensonhagen.com



10TH AVE SE
FROM THE NORTH ADDITION LINE TO THE
SOUTH ADDITION LINE-PLAINVIEW HEIGHTS 8TH

STREET IMPROVEMENT PROJECT 2003-12
DISTRICT #117 AREA F SHEET NO. 2 OF 4
MANDAN, ND MAY 9, 2003