

COOKSON SUBDIVISION

WEST BRANCH, IOWA



CIVIL ENGINEERS
 LAND PLANNERS
 LAND SURVEYORS
 LANDSCAPE ARCHITECTS
 ENVIRONMENTAL SPECIALISTS

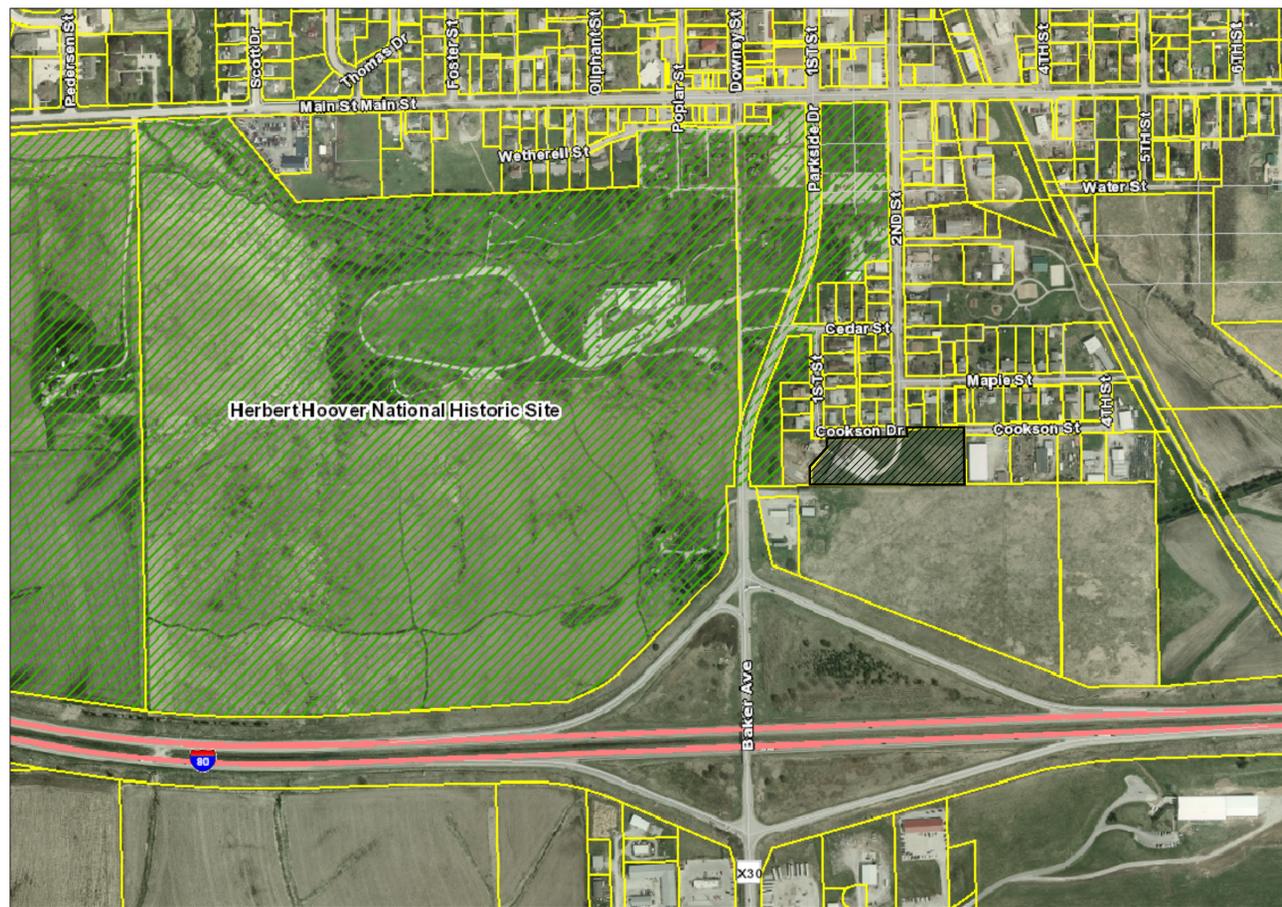
1917 S. GILBERT ST.
 IOWA CITY, IOWA 52240
 (319) 351-8282
 www.mmsconsultants.net

5741 C ST. SW SUITE C
 CEDAR RAPIDS, IOWA 52404
 (319) 841-5188

Date: _____ Revision: _____

Project Location Map

Index



1	COVER SHEET
2	GENERAL NOTES AND DETAILS
3	SITE GRADING AND EROSION CONTROL PLAN
4	SANITARY PLAN AND PROFILE AND WATERMAIN PLAN
5	STORM SEWER PLAN AND PROFILE
6	PAVING PLAN AND PROFILE

STANDARD LEGEND AND NOTES

---	PROPERTY &/or BOUNDARY LINES
----	CONGRESSIONAL SECTION LINES
----	RIGHT-OF-WAY LINES
----	EXISTING RIGHT-OF-WAY LINES
----	CENTER LINES
----	EXISTING CENTER LINES
----	LOT LINES, INTERNAL
----	LOT LINES, PLATTED OR BY DEED
----	PROPOSED EASEMENT LINES
----	EXISTING EASEMENT LINES
----	BENCHMARK
----	RECORDED DIMENSIONS
----	CURVE SEGMENT NUMBER
---	POWER POLE
---	POWER POLE W/DROP
---	POWER POLE W/TRANS
---	POWER POLE W/LIGHT
---	GUY POLE
---	LIGHT POLE
---	SANITARY MANHOLE
---	FIRE HYDRANT
---	WATER VALVE
---	DRAINAGE MANHOLE
---	CURB INLET
---	FENCE LINE
---	EXISTING SANITARY SEWER
---	PROPOSED SANITARY SEWER
---	EXISTING STORM SEWER
---	PROPOSED STORM SEWER
---	WATER LINES
---	ELECTRICAL LINES
---	TELEPHONE LINES
---	GAS LINES
---	CONTOUR LINES (1' INTERVAL)
---	PROPOSED GROUND
---	EXISTING GROUND
---	EXISTING TREE LINE
---	EXISTING DECIDUOUS TREE & SHRUB
---	EXISTING EVERGREEN TREES & SHRUBS

THE ACTUAL SIZE AND LOCATION OF ALL PROPOSED FACILITIES SHALL BE VERIFIED WITH CONSTRUCTION DOCUMENTS, WHICH ARE TO BE PREPARED AND SUBMITTED SUBSEQUENT TO THE APPROVAL OF THIS DOCUMENT.

BENCHMARK INFORMATION

BM NO. 1
POINT USED ON WEST BOLT OF FIRE HYDRANT AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF COOKSON DR. AND 1ST ST. ELEVATION 757.97 (NAVD 29) DATUM

I hereby certify that this engineering document 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 Iowa.

KELLY J. BECKLER
 P.E. Iowa Lic. No. 14624

 Date: _____

Pages: _____ of _____ sheets covered by this seal.

SEAL

COVER SHEET

COOKSON SUBDIVISION

WEST BRANCH CEDAR COUNTY IOWA

MMS CONSULTANTS, INC.

Date: 10/03/13
 Designed By: KJB
 Drawn By: JDM
 Checked By: KJB
 Project No.: IOWA CITY 2583027

Field Book No.: _____
 Scale: NTS
 Sheet No.: 1
 of 6

Location Map Not To Scale

SANITARY SEWER AND WATERMAIN NOTES

- SANITARY SEWER & WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS PREPARED FOR THIS PROJECT. CITY OF WEST BRANCH DESIGN AND CONSTRUCTION STANDARDS AND PROCEDURES SHALL PREVAIL.
- SANITARY SEWERS SHALL BE POLYVINYL CHLORIDE TRUSS PIPE (ASTM D2680), UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE FERRIC "BAND-SEAL" COUPLINGS FOR DISSIMILAR PIPE CONNECTIONS.
- GRANULAR TRENCH BACKFILL SHALL BE CRUSHED STONE CONFORMING TO I.D.O.T. STANDARD SPECIFICATION 4120.04 WITH 1" MAXIMUM AGGREGATE SIZE. COMPACT TO 90% MODIFIED PROCTOR DENSITY.
- ALL SANITARY SEWERS SHOWN ON THE PROFILE VIEW AND ALL SANITARY SEWERS AND WATER MAINS UNDER PAVING OR WITHIN 5 FEET OF PAVEMENT SHALL BE BACKFILLED WITH EITHER OF THE FOLLOWING COMPACTED TO 90% MODIFIED PROCTOR DENSITY:
 - SUITABLE EXCAVATED MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, THEN
 - CRUSHED STONE AS SPECIFIED FOR GRANULAR TRENCH BACKFILL.
- ALL SANITARY SEWER SERVICE LINES CROSSING STREET RIGHT-OF-WAY SHALL BE BACKFILLED IN ACCORDANCE WITH THE PRECEDING NOTE.
- CONTRACTOR SHALL PROVIDE CRUSHED STONE ENCASEMENT FOR PVC TRUSS PIPE SEWERS. ALL SANITARY SEWER SERVICE LINES SHALL BE EXTENDED:
 - TO THE UTILITY EASEMENT LINE FOR THOSE LOCATIONS WHERE THE LOTS BEING SERVED ARE ON THE OPPOSITE SIDE OF THE STREET FROM THE SEWER MAIN.
 - TO THE UTILITY EASEMENT LINE FOR THOSE LOCATIONS WHERE THE LOTS BEING SERVED ARE ADJACENT TO THE SEWER MAIN.
- THE END OF ALL SANITARY SEWER SERVICES MUST BE MARKED WITH A WOOD 2 x 4 PAINTED GREEN.
- ALL SANITARY SEWER MANHOLES SHALL BE PROVIDED WITH CRETEX EXTERIOR CHIMNEY SEAL OR APPROVED EQUAL.

AIR TESTING

- ALL SANITARY SEWER AND SERVICE LINES SHALL BE AIR TESTED TO PASS THE FOLLOWING TEST: NOTE: CITY REPRESENTATIVE MUST BE PRESENT DURING TESTING.
 - PERFORM FROM MANHOLE-TO-MANHOLE AFTER BACKFILL.
 - PLACE PNEUMATIC PLUGS: (1) SEALING LENGTH: EQUAL TO OR GREATER THAN PIPE DIAMETER, (2) CAPABLE OF RESISTING INTERNAL TEST PRESSURE WITHOUT EXTERNAL BRAING OR BLOCKING.
 - INTRODUCE LOW-PRESSURE AIR INTO SEALED LINE AND ACHIEVE INTERNAL AIR PRESSURE OF 5 PSI & MAINTAIN FOR A MINIMUM OF 5 MINUTES.
 - LIMIT INTERNAL PRESSURE IN SEALED LINE BELOW 8 PSIG.
 - ALLOW 2 MINUTES MINIMUM FOR AIR PRESSURE TO STABILIZE. DISCONNECT LOW-PRESSURE AIR HOSE FROM CONTROL PANEL.
 - MINIMUM TIME FOR PRESSURE TO DROP FROM 3.5 TO 2.5 PSIG GREATER THAN MAXIMUM PRESSURE EXERTED BY GROUNDWATER ABOVE PIPE INVERT.

PIPE DIAMETER IN INCHES	TIME IN MINUTES
4	2.0
6	3.0
8	4.0
10	5.0
12	5.5
15	7.5

G. IN AREAS WHERE GROUND WATER IS KNOWN TO EXIST, THE HEIGHT OF WATER ABOVE THE TOP OF THE PIPE BEING TESTED, IN FEET, SHALL BE DETERMINED AND THAT HEIGHT DIVIDED BY 2.3 TO ESTABLISH THE PRESSURE THAT WILL BE ADDED TO ALL READINGS ABOVE. ALTERNATIVELY, THE ENGINEER MAY ALLOW THE CONTRACTOR TO MEASURE INFILTRATION INTO THE SEWER BY USING A V-NOTCH WEIR OR OTHER SUITABLE DEVICE.

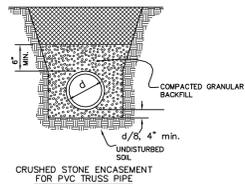
H. LOCATE, REPAIR AND RETEST LEAKS.

I. AIR TESTING SHALL BE CONSIDERED INCIDENTAL TO SANITARY SEWER CONSTRUCTION.

ALL PVC TRUSS SEWERS SHALL HAVE A DEFLECTION TEST PERFORMED AS FOLLOWS:

- DEFLECTION TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
- DEFLECTION TEST TO BE CONDUCTED USING A RIGID BALL OR MANDREL WITH A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. NO MECHANICAL PULLING DEVICES ALLOWED.
- NO PIPE SHALL EXCEED A DEFLECTION OF 5%.

NOTES:



THE FOLLOWING MINIMUM CLEARANCES MUST BE MAINTAINED:

- WATER MAIN SHALL BE LOCATED TO FEET HORIZONTALLY DISTANT FROM ALL SANITARY SEWER AND STORM SEWER.
- WATER MAIN SHALL NOT PASS THROUGH NOR CONTACT A SEWER OR A SEWER MANHOLE. A MINIMUM HORIZONTAL SEPARATION OF 3 FEET SHALL BE MAINTAINED.
- VERTICAL SEPARATION OF WATER MAINS CROSSING OVER ANY SANITARY SEWER SHOULD BE A MINIMUM OF 18-INCHES, MEASURED OUTSIDE TO OUTSIDE FROM THE CLOSEST EDGE OF EACH PIPE. IF PHYSICAL CONDITIONS PROHIBIT THIS SEPARATION, THE WATER MAIN SHALL NOT BE PLACED CLOSER THAN 6-INCHES ABOVE A SEWER OR 18-INCHES BELOW A SEWER. THE SEPARATION DISTANCE SHALL BE THE MAXIMUM FEASIBLE IN ALL CASES.
- WHERE THE WATER MAIN CROSSES SEWER, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE SEWER. THE WATER AND SEWER PIPES MUST BE ADEQUATELY SUPPORTED AND HAVE WATER TIGHT JOINTS. A LOW PERMEABILITY SOIL SHALL BE USED FOR BACKFILL MATERIAL WITHIN 10-FEET OF THE POINT OF CROSSING.
- NOMINAL DEPTH OF WATER MAIN = 5.5 FEET TO TOP OF PIPE.
- WATER MAIN SHOWN ON PLAN VIEW SHALL BE INSTALLED PRIOR TO PAVING.
- THE ENTIRE WATERMAIN SYSTEM, INCLUDING SERVICES TAPS IF APPLICABLE, SHALL BE PRESSURE TESTED PER AWWA C600. THE TEST SHALL BE PERFORMED AT A MINIMUM OF 150 PSI FOR 2 HOURS WITH A MAXIMUM LOSS OF 5 PSI.
- WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SPECIFICATIONS.
- FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURIAN 250 OR APPROVED CITY EQUAL THAT OPEN LEFT.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS, OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THOSE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHER FACILITIES IN THE CONSTRUCTION AREA, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN HEREON. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION, AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

STORM SEWER CONSTRUCTION NOTES

STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AS PREPARED BY MMS CONSULTANTS, INC. CONSTRUCTION SHALL ALSO CONFORM TO THE CITY OF WEST BRANCH STANDARDS AND APPROVED MANUFACTURERS/MODELS.

ALL REINFORCED CONCRETE PIPE STORM SEWERS SHALL BE CLASS III UNLESS NOTED OTHERWISE IN THE PLANS. RCP STORM SEWERS 36" DIAMETER AND SMALLER SHALL HAVE BELL AND SPIGOT JOINTS WITH O-RINGS GASKETS OR SHALL BE TONGUE & GROOVE WITH ALL JOINTS SHALL WRAPPED WITH FILTER FABRIC A MINIMUM OF 24" WIDE.

ALL STORM SEWERS SHALL BE PROVIDED WITH CLASS "C" SHAPED SUBGRADE, UNLESS NOTED OTHERWISE.

GRANULAR TRENCH BACKFILL SHALL BE CRUSHED STONE CONFORMING TO I.D.O.T. STANDARD SPECIFICATION 4120.04 WITH 1" MAXIMUM AGGREGATE SIZE. COMPACT TO 90% MODIFIED PROCTOR DENSITY.

AT PLACES WHERE A FLARED END SECTION IS REQUIRED, PIPE LENGTH INCLUDES THE FLARED END. THE FLARED END SECTION AND LAST TWO JOINTS ARE TO BE TIED WHERE FLARED END SECTIONS ARE REQUIRED.

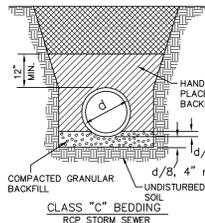
ALL STORM SEWERS SHOWN ON THE PROFILE VIEW AND ALL STORM SEWERS UNDER PAVING OR WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PROVIDED EITHER OF THE FOLLOWING COMPACTED TO 90% MODIFIED PROCTOR DENSITY:

- SUITABLE EXCAVATED MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, THEN
- CRUSHED STONE AS SPECIFIED FOR GRANULAR TRENCH BACKFILL.

ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO THE PROPOSED STORM SEWER.

IF STORM SEWER PIPE MATERIAL IS NOT DESIGNATED ON PROFILE VIEW, PIPE SHALL BE EITHER OF THE FOLLOWING:

- ADS N-12 WITH SOIL TIGHT JOINTS WITH ALL JOINTS WRAPPED WITH FABRIC AND WITH BEDDING AS SHOWN BELOW.
- RCP STORM SEWER WITH TONGUE & GROOVE JOINTS WRAPPED WITH FABRIC AND WITH CLASS "C" BEDDING.

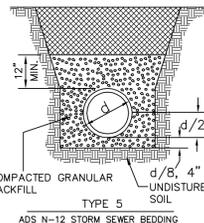


NOTES:

PIPE SHALL BE PLACED ON COMPACTED GRANULAR MATERIAL WHICH IS TO BE PLACED ON UNDISTURBED SOIL.

BELL HOLES SHALL BE HAND SHAPED SUCH THAT THE BARREL OF THE PIPE LAYS ON COMPACTED BEDDING.

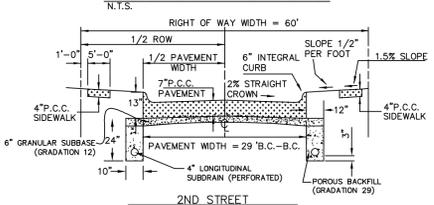
BACKFILL SHALL BE HAND TAMPED UP TO 12" ABOVE THE TOP OF THE PIPE.



PAVING CONSTRUCTION NOTES

- I.D.O.T. CLASS C-3 CONCRETE SHALL BE USED, UNLESS NOTED OTHERWISE.
- CITY OF WEST BRANCH DESIGN AND CONSTRUCTION STANDARDS AND PROCEDURES SHALL PREVAIL.
- PAVEMENT JOINTS SHALL CONFORM TO I.D.O.T. STANDARD ROAD PLANS RH-50 RH-51, AND RH-52, CURRENT REVISION.
- THE CONCRETE AGGREGATE SHALL BE CLASS 31 DURABILITY AS SPECIFIED IN SECTION 4115.04.83 OF THE I.D.O.T. STANDARD SPECIFICATIONS.

TYPICAL STREET SECTION

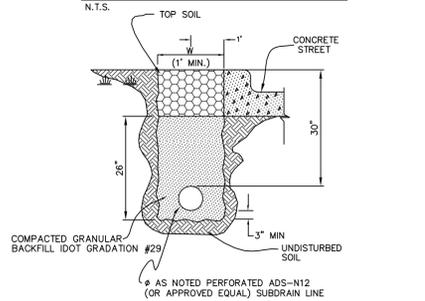


ROAD CLOSURE BARRICADE

NOTE: PAVING CONTRACTOR SHALL FURNISH AND INSTALL ONE-HALF OF AN I.D.O.T. TYPE RE-3A OR RE-3B AT THE END OF PAVING NOTED BELOW. ROAD CLOSURE BARRICADE SHALL BE PLACED ACROSS ONLY THE OUTWARD BOUND LANE. FURNISHING AND INSTALLING ROAD CLOSURE BARRICADES SHALL BE PAID FOR AS A SEPARATE ITEM AS LISTED IN CONTRACTOR'S PROPOSAL. ROAD CLOSURE BARRICADES ARE REQUIRED AT THE FOLLOWING LOCATIONS:

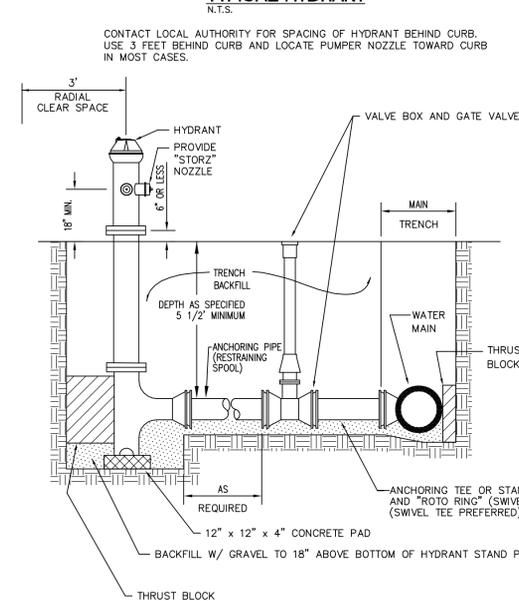
STREET NAME	STATION
2ND STREET	3+26.97

SUMP PUMP DRAIN LINE DETAIL



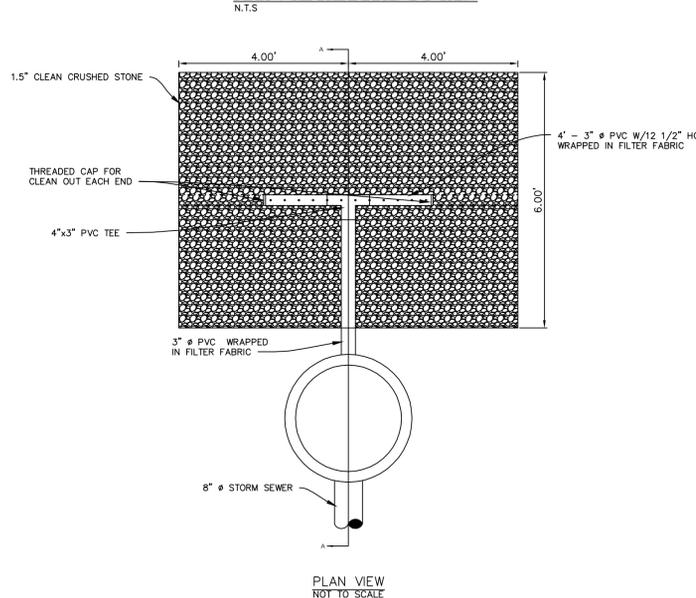
- TRENCH WIDTH (W) SHALL BE A MINIMUM OF 6" WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE (D).
- PIPE SHALL BE PLACED ON A BED OF COMPACTED GRANULAR MATERIAL APPROXIMATELY 3" THICK.
- GRANULAR BACKFILL SHALL BE PLACED TO THE BOTTOM OF THE PAVEMENT SLAB. ALL BACKFILL IN THE PIPE ENVELOPE SHALL BE HAND TAMPED.
- GRANULAR MATERIAL FOR BEDDING AND BACKFILL SHALL MEET IDOT GRADATION #29.
- BELL HOLES SHALL BE HAND SHAPED SUCH THAT THE BARREL OF THE PIPE LAYS ON COMPACTED BEDDING.
- ALL PIPE SHALL BE FULLY PERFORATED.
- ALL PIPE SHALL BE 6" DIAMETER, UNLESS NOTED OTHERWISE, AND TOP OF PIPE SHALL BE 30 INCHES BELOW TOP OF CURB.
- PIPE MATERIALS SHALL BE EITHER OF THE FOLLOWING:
 - PERFORATED ADS N-12
 - CITY ENGINEER APPROVED EQUAL
- ALL FITTINGS AND COUPLINGS SHALL BE SPECIFICALLY MANUFACTURED FOR USE WITH THE ABOVE SPECIFIED PIPE MATERIALS.
- INSTALL A 6" TEE WITH A CAP ON THE BRANCH AT THE LOCATIONS LABELED FOR A SUMP PUMP CONNECTION.

TYPICAL HYDRANT

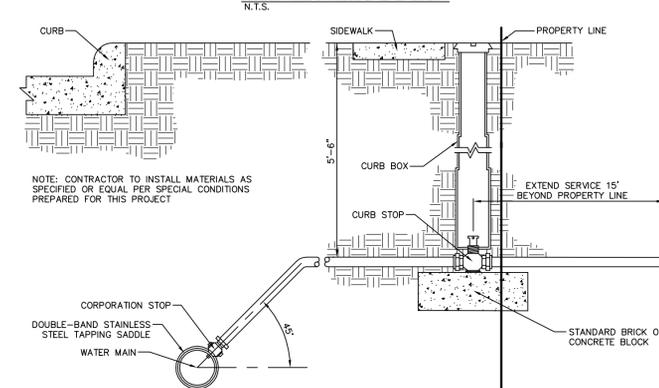


CONTACT LOCAL AUTHORITY FOR SPACING OF HYDRANT BEHIND CURB. USE 3 FEET BEHIND CURB AND LOCATE PUMPER NOZZLE TOWARD CURB IN MOST CASES.

OUTLET STRUCTURE DETAIL

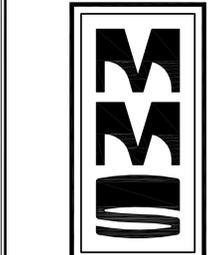
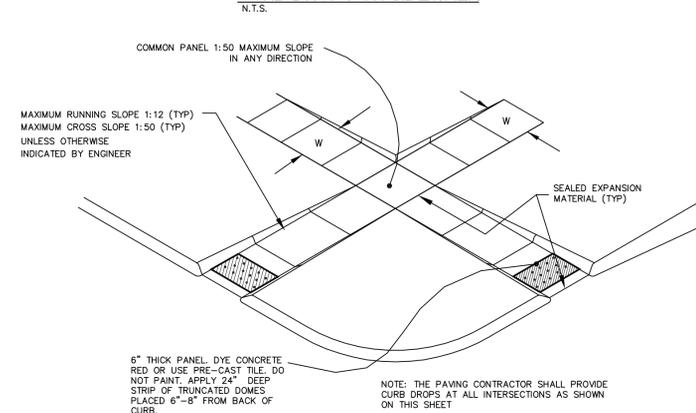


WATER SERVICE DETAIL



NOTE: CONTRACTOR TO INSTALL MATERIALS AS SPECIFIED OR EQUAL PER SPECIAL CONDITIONS PREPARED FOR THIS PROJECT

CURB DROP FOR SIDEWALK



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(319) 351-8282
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Date: _____ Revision: _____

GENERAL NOTES AND DETAILS

COOKSON SUBDIVISION

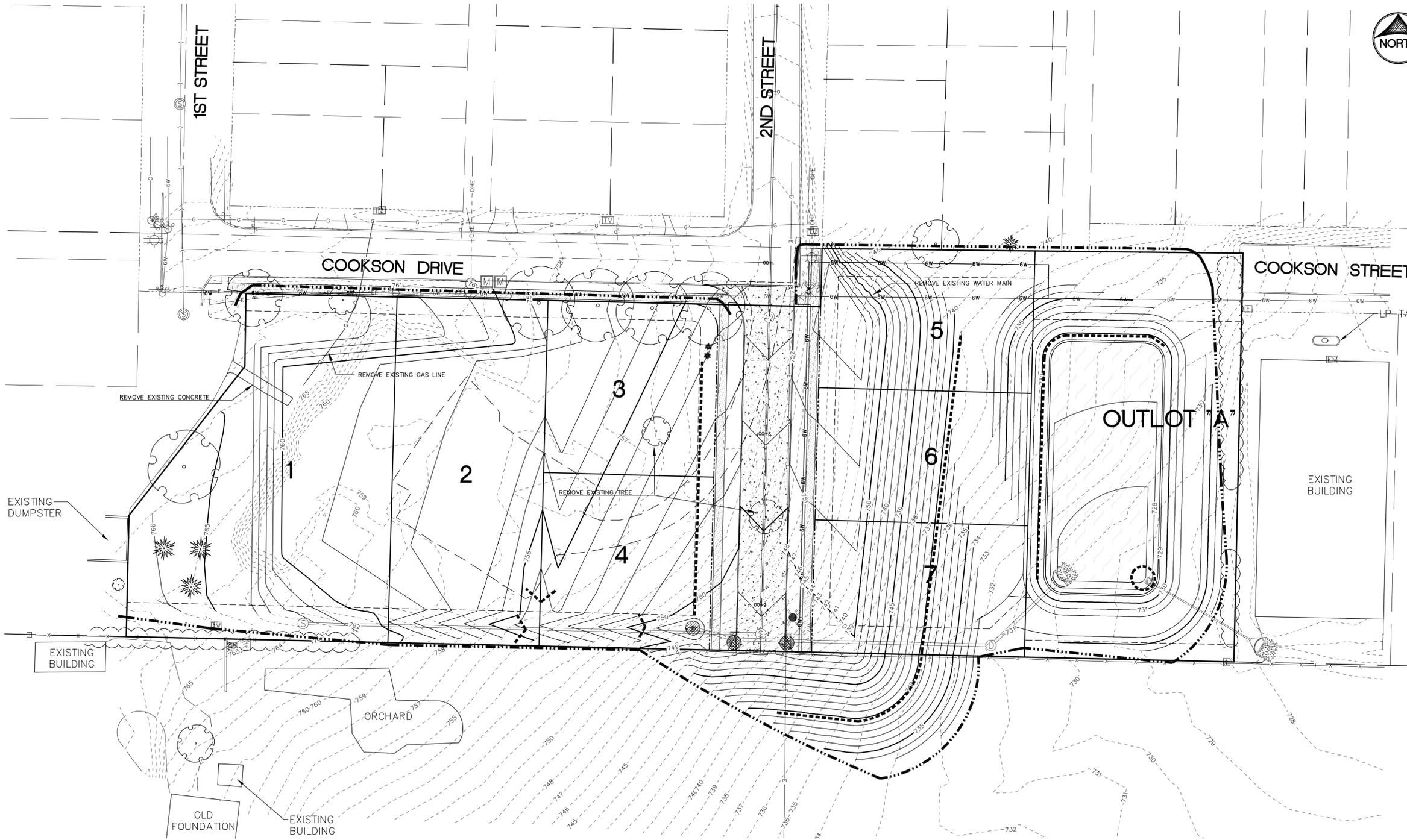
WEST BRANCH CEDAR COUNTY IOWA

MMS CONSULTANTS, INC.

Date:	10/03/13
Designed by:	KJB
Drawn by:	JDM
Checked by:	KJB
Project No:	IOWA CITY 2583027
Field Book No:	
Scale:	NTS
Sheet No:	2
of:	6



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 1917 S. GILBERT ST.
 IOWA CITY, IOWA 52240
 (319) 351-8282
 www.mmsconsultants.net



Date	Revision

GRADING AND EROSION CONTROL PLAN

COOKSON ADDITION

WEST BRANCH
 CEDAR COUNTY
 IOWA

MMS CONSULTANTS, INC.

Date:	10/03/13
Designed by:	KJB
Field Book No.:	
Drawn by:	JDM
Scale:	1"=30'
Checked by:	KJB
Sheet No.:	3
Project No.:	2583027
IOWA CITY	of 6

EROSION CONTROL LEGEND

	SILT FENCE/FILTER SOCK		PERIMETER SILT FENCE
	TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT		TEMPORARY SOIL STOCKPILE AREA
	TEMPORARY PARKING AND STORAGE		DIRECTION OF OVERLAND FLOW
	CONCRETE TRUCK/EQUIPMENT WASHOUT		DUMPSTER FOR CONSTRUCTION WASTE
	PORTABLE RESTROOM		RIP RAP OUTLET PROTECTION
	DOCUMENT LOCATION (PERMITS, SWPPP, INSPECTION FORMS, ETC.)		OTHER MEASURE: _____
	FILTER SOCK INLET PROTECTION		OTHER MEASURE: _____
	FILTER SOCK BEHIND CURB AT CURB RAMP		OTHER MEASURE: _____

THE ABOVE LISTED ITEMS ARE SHOWN IN THEIR RECOMMENDED LOCATIONS. IF A CONTROL MEASURE IS ADDED OR MOVED TO A MORE SUITABLE LOCATION, INDICATE THE REVISION ON THIS SHEET. THE BLANKS LEFT FOR OTHER MEASURES SHOULD BE USED IF AN ITEM NOT SHOWN ABOVE IS IMPLEMENTED ON SITE. ADDITIONAL PRACTICES FOR EROSION PREVENTION AND SEDIMENT CONTROL CAN BE FOUND IN APPENDIX D OF THE SWPPP.

GRADING AND EROSION CONTROL NOTES

TOTAL SITE AREA: _____ ACRES
 TOTAL AREA TO BE DISTURBED: _____ ACRES

EROSION CONTROL MEASURES SHOWN SHALL BE USED DURING FILL ACTIVITIES. EROSION CONTROL MEASURES SHALL BE REEVALUATED AND MODIFIED, IF NECESSARY, AT THE TIME OF SITE DEVELOPMENT.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES THAT COULD BE USED ON SITE, IF NEEDED, CAN BE FOUND IN APPENDIX D OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BINDER PREPARED FOR THE SITE. IF ADDITIONAL MEASURES ARE USED, INDICATE THE TYPE AND LOCATION OF SAID MEASURE ON THIS PLAN.

CONTRACTOR SHALL INSTALL A ROCK ENTRANCE AND PERFORM REGULAR CLEANING OF VEHICLES THAT LEAVE THE SITE.

FOLLOWING INSTALLATION OF PERIMETER SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR TO SCHEDULE A SITE INSPECTION PRIOR TO ANY SOIL DISTURBING ACTIVITIES.

THE CONTRACTOR SHALL FOLLOW THE NPDES PERMIT, SWPPP, AND THE CITY CSR REGULATIONS.

THE EROSION CONTROL CONTRACTOR SHALL INSTALL FILTER SOCKS OR OTHER APPROVED FORM OF INLET PROTECTION AT EACH STREET INTAKE ADJACENT TO THE SITE.

STABILIZATION SEEDING

STABILIZATION SEEDING SHALL BE IN ACCORDANCE WITH I.D.O.T. STANDARD SPECIFICATION SECTION 2601.03 STABILIZING CROP SEEDING AND FERTILIZING.

SEED MIXTURES SHALL BE ONE OF THE FOLLOWING:

SPRING - MARCH 1 TO MAY 20
 OAT 2 BUSHEL PER ACRE
 GRAIN RYE 25 LBS. PER ACRE
 RED CLOVER 5 LBS. PER ACRE
 TIMOTHY 5 LBS. PER ACRE

SUMMER - MAY 21 TO JULY 20
 OAT 3 BUSHEL PER ACRE
 GRAIN RYE 35 LBS PER ACRE
 RED CLOVER 5 LBS PER ACRE
 TIMOTHY 5 LBS PER ACRE

FALL - JULY 21 TO SEPTEMBER 30
 OAT 2 BUSHEL PER ACRE
 GRAIN RYE 35 LBS PER ACRE
 RED CLOVER 5 LBS PER ACRE
 TIMOTHY 5 LBS PER ACRE

FERTILIZER SHALL BE APPLIED AT A RATE OF 450 LBS PER ACRE USING CHEMICALLY COMBINED COMMERCIAL 13-13-13 FERTILIZER.

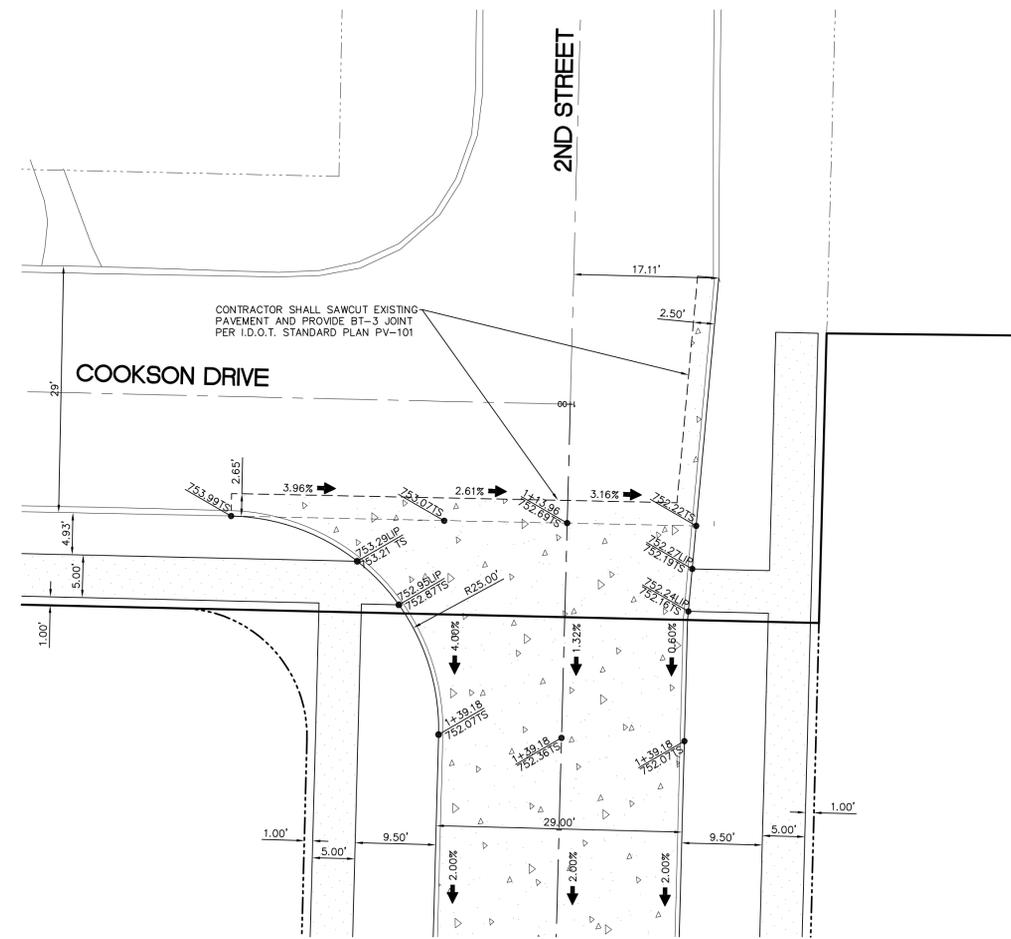
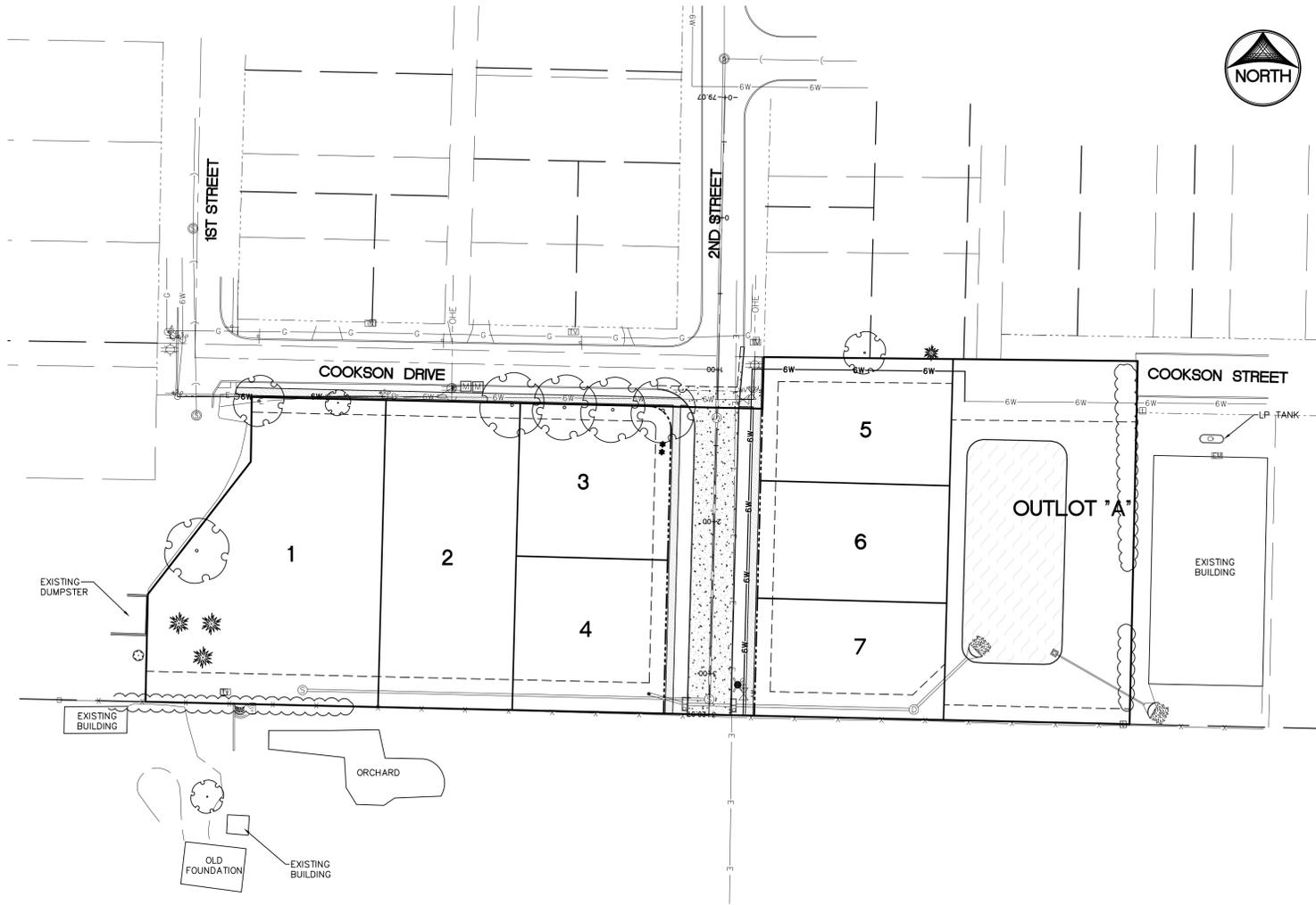
SILT FENCE DETAIL
 N.T.S.

INSTALLATION

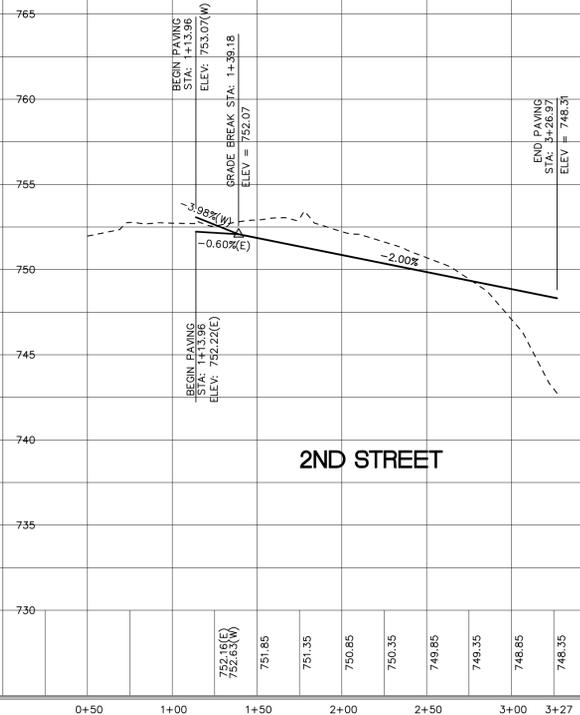
- POSTS SHALL BE 1.33 POUNDS PER LINEAL FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
- SILT FENCE FABRIC SHALL CONFORM TO I.D.O.T. STANDARD SPECIFICATION SECTION 4196.01.A. SILT FENCING SHALL BE A MINIMUM OF 24" AND A MAXIMUM OF 36" HIGH WHEN COMPLETE.
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE FENCE TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, THE FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
- POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AND DRIVEN SECURELY INTO THE GROUND ALONG THE FENCE ALIGNMENT. POSTS SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 28".
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE BY 12" DEEP ALONG THE UPSLOPE SIDE OF THE POSTS.
- FILTER FABRIC SHALL BE STAPLED OR WREED TO THE POSTS SUCH THAT THE FABRIC EXTENDS INTO THE TRENCH AS SHOWN ABOVE. THE FABRIC SHALL BE FASTENED A MINIMUM OF THREE PLACES ON EACH POST.
- THE TRENCH SHALL BE BACK FILLED WITH EXCAVATED MATERIAL AND THOROUGHLY COMPACTED.

MAINTENANCE

- SILT FENCES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN-FALL EVENT OF 0.5 INCHES OR MORE. DURING PERIODS OF PROLONGED RAIN INSPECTIONS SHALL BE AT LEAST DAILY. ANY REPAIRS NEEDED TO MAINTAIN THE SILT FENCE'S EFFECTIVENESS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO STABILIZING THE UPSLOPE AREAS THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE FENCE. SILTS REMOVED SHALL BE PLACED IN A PROTECTED PLACE THAT WILL PREVENT THEIR ESCAPE FROM THE CONSTRUCTION SITE.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER NEEDED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
- SILT FENCE SHALL REMAIN IN PLACE UNTIL IT IS NO LONGER NEEDED AS DIRECTED BY THE POLLUTION PREVENTION PLAN. GENERALLY SILT FENCES SHALL REMAIN UNTIL THE UPSLOPE AREAS ARE STABILIZED WITH AN ESTABLISHED GRASS COVER AS A MINIMUM.



NOTE: ALL ELEVATIONS ARE TOP OF SLAB AT GUTTER UNLESS NOTED OTHERWISE.



CIVIL ENGINEERS
LAND PLANNERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL SPECIALISTS
1917 S. GILBERT ST.
IOWA CITY, IOWA 52240
(319) 351-8282
www.mmsconsultants.net

Date Revision

PAVING PLAN AND PROFILE

COOKSON ADDITION

WEST BRANCH CEDAR COUNTY IOWA

MMS CONSULTANTS, INC.
Date: 10/03/13
Designed By: KJB Field Book No:
Drawn By: JDM Scale: 1"=50'
Checked By: KJB Sheet No:
Project No: 2583027
IOWA CITY
of 6