

CITY OF MT. PLEASANT DIVISION OF PUBLIC WORKS

2012 LOCAL STREET RECONSTRUCTION PROJECT

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THIS PROJECT IS TO BE CONSTRUCTED TO MDT
STANDARD CONSTRUCTION SPECIFICATIONS - 2012
EXCEPT AS MODIFIED BY THE CITY OF MT. PLEASANT
2012 SPECIAL PROVISIONS.

PREVIOUS PROJECTS IN LINCOLN STREET AREA REVEAL
SANDY SOILS UP TO 9 FEET +/- IN DEPTH.
PREVIOUS PROJECTS IN CRESCENT STREET AREA REVEAL
CLAY SOILS.

MAYOR

BRUCE KILMER

VICE MAYOR

KATHLEEN L. LING

COMMISSIONERS

NANCY ENGLISH

SHARON TILMANN

JON JOSLIN

CITY MANAGER

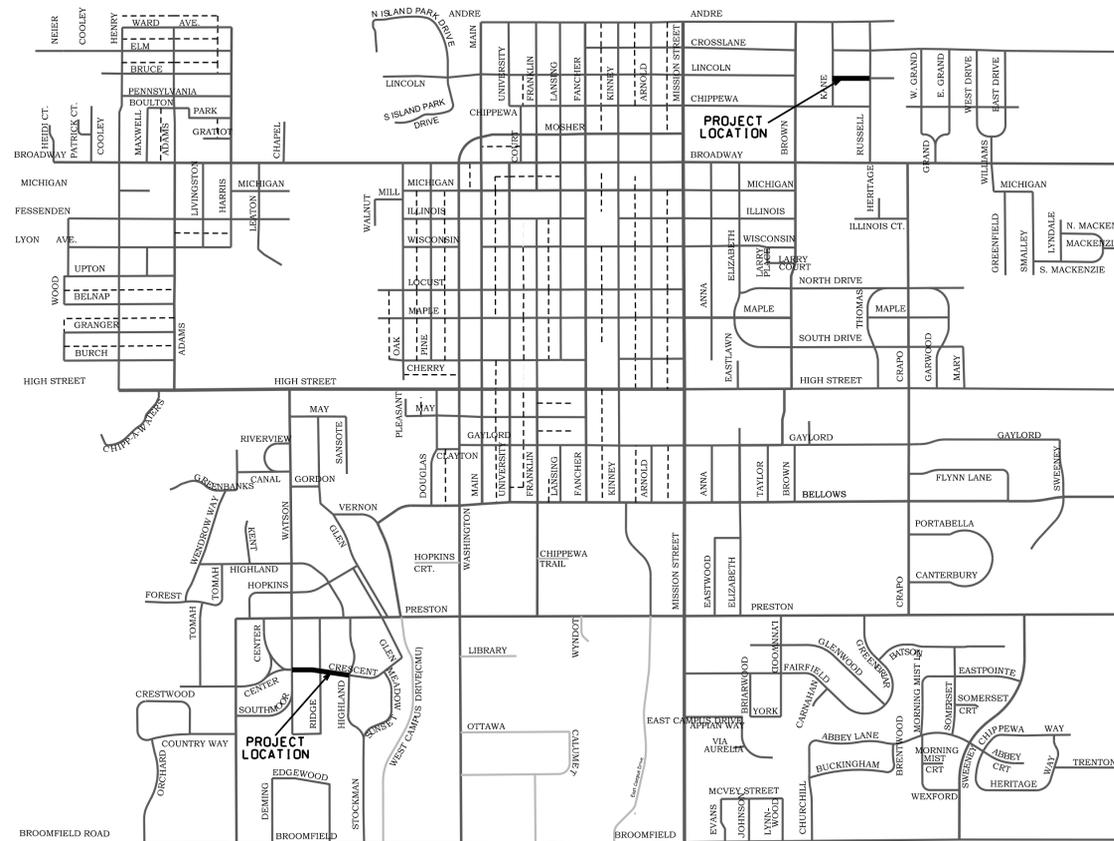
KATHIE GRINZINGER

DIRECTOR OF PUBLIC WORKS

ROGER H. ROUSSE

RICK RAUTANEN

JIM HOLTON



MDEQ PERMIT



City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-

COVER SHEET
2012 LOCAL STREET RECONSTRUCTION
PROJECT

DESIGN BY	CONSTRUCTED
DRAWN BY B. BRICKNER	DATE OF PLAN FEB. 24, 2012
CHECKED BY C. SCHRIPSEMA, PE	SCALE
APPROVED BY	SHEET 1 OF 8 SHEETS

REVISIONS _____ DATE/INITIALS _____

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.

PLOT DATE: SDATES



DRAWING PATH:

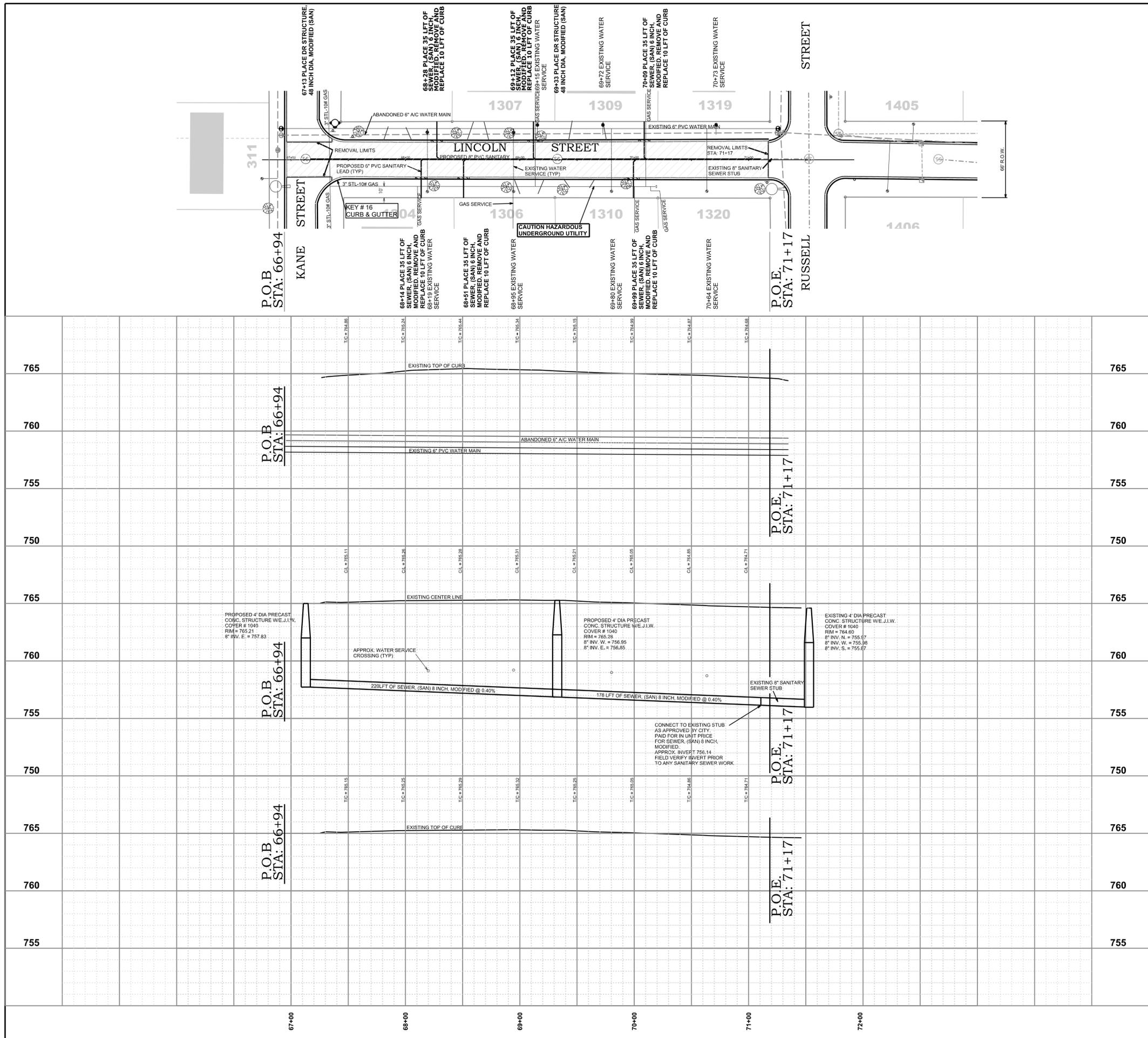
FED. ITEM NO.

FED. PROJECT:

JOB NO.:

CONTROL SECTION:

STREETNAME - FROM STREET TO TOSTREET



QUANTITIES THIS SHEET

ROADWAY ITEMS	QUANTITY
- Pavt, Rem	1462 Syd
- Curb and Gutter, Rem	75 Lft
- Subbase, CIP	163 Cyd
- Aggregate Base, 8 Inch	1462 Syd
- Dr Structure San, 48 Inch Dia, Modified	2 Ea
- Dr Structure Cover, Adj, Case 1	2 Ea
- Dr Structure Cover (San), Modified	2 Ea
- HMA, 13A	112 Ton
- HMA, 36A	112 Ton
- Curb and Gutter, Conc, Det F4, Modified	75 Lft
- Restoration, Modified	4.23 Sta
- Sewer, San 6 Inch, Modified	210 Lft
- Sewer, San 8 Inch, Modified	398 Lft
- Minor Traf Devices	1 Ls
- Subgrade Undercutting, Type II	25 Cyd
- Plastic Drum, High Intensity, Lighted Furn.	15 Ea
- Plastic Drum, High Intensity, Lighted Oper.	15 Ea
- Barricade, Type III, High Intensity, Lighted Furn.	4 Ea
- Barricade, Type III, High Intensity, Lighted Oper.	4 Ea
- Preconstruction Audio Video Recording	1 Ls
- Erosion Control Filter Bag	4 Ea
- Machine Grading, Modified	4.23 Sta

- WATER SERVICE
- TREE
- LIGHT POLE
- ◆ TRAFFIC CONTROL SIGN
- ⊙ SANITARY SEWER MAN HOLE
- ⊙ STORM SEWER MAN HOLE
- STORM SEWER CATCH BASIN
- KEY # 15 PAVING SOIL EROSION CONTROL MEASURE

PROPOSED SANITARY STRUCTURES

STATION	OFFSET	SIZE	RIM ELEV.	REMARKS	INVERT ELEV.
67+13	0	48" SAN	765.21	8" INVERT EAST	757.83
69+33	0	48" SAN	765.28	8" INVERT WEST 8" INVERT EAST	756.95 756.85

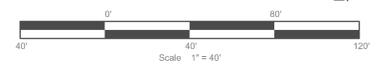
GENERAL CONSTRUCTION NOTES

IN LOCATIONS WHERE A SANITARY SEWER LEAD WILL CONFLICT WITH THE 6" HDPE WATER MAIN, CONTRACTOR SHALL GO ABOVE THE WATER MAIN AND MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION.

IN LOCATIONS WHERE A SANITARY SEWER LEAD CONFLICTS WITH THE ABANDONED 6" A/C WATER MAIN, A PORTION OF THAT WATER MAIN SHALL BE REMOVED, AND CONTRACTOR SHALL BULK HEAD EACH END OF SAID WATER MAIN WITH CONCRETE. COST TO BE INCLUDED IN SEWER, (SAN) 6 INCH UNIT PRICES.

IN LOCATIONS WHERE THE SANITARY SEWER CONFLICTS WITH A WATER SERVICE, THE WATER SERVICE SHALL BE RE-ROUTED TO KEEP MINIMUM SEPARATION, AND MAINTAIN MINIMUM COVER OVER THE WATER SERVICE. COST TO BE INCLUDED IN SEWER, (SAN) 8 INCH, MODIFIED UNIT COST. UNIONS ON WATER SERVICES WILL NOT BE ALLOWED WITHIN THE ROADWAY.

INSTALL CATCH BASIN FILTER BAGS IN ALL STRUCTURES WITHIN THE INFLUENCE OF THE CONSTRUCTION SITE PRIOR TO COMMENCEMENT OF ANY WORK.



City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-

SHEET TITLE
LINCOLN STREET
FROM KANE STREET TO RUSSELL STREET

DESIGN BY B. BRICKNER	CONSTRUCTED DATE OF PLAN FEB. 24, 2012
CHECKED BY C. SCHRIPSEMA, PE	SCALE 1" = 40"
APPROVED BY	SHEET 2 OF 8 SHEETS

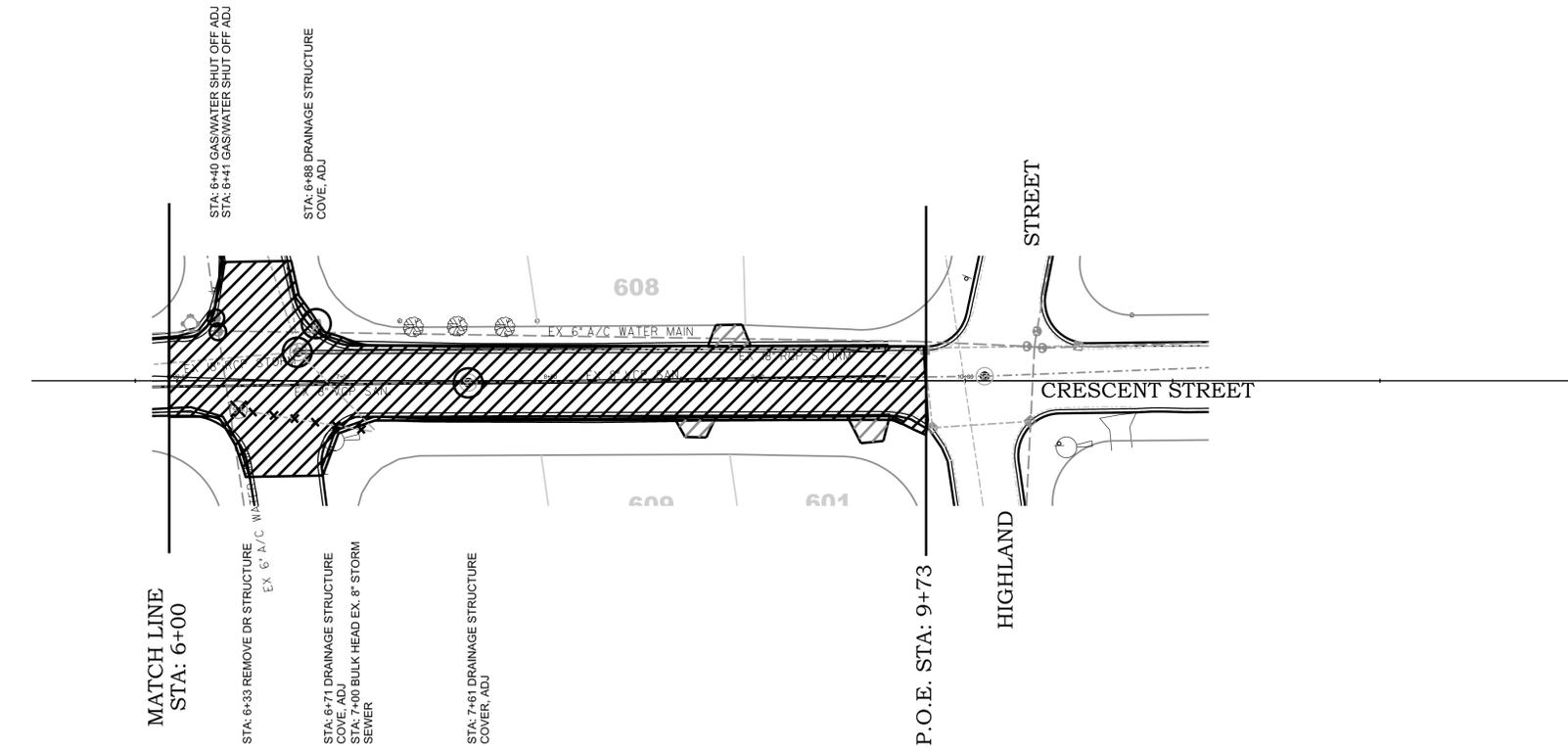
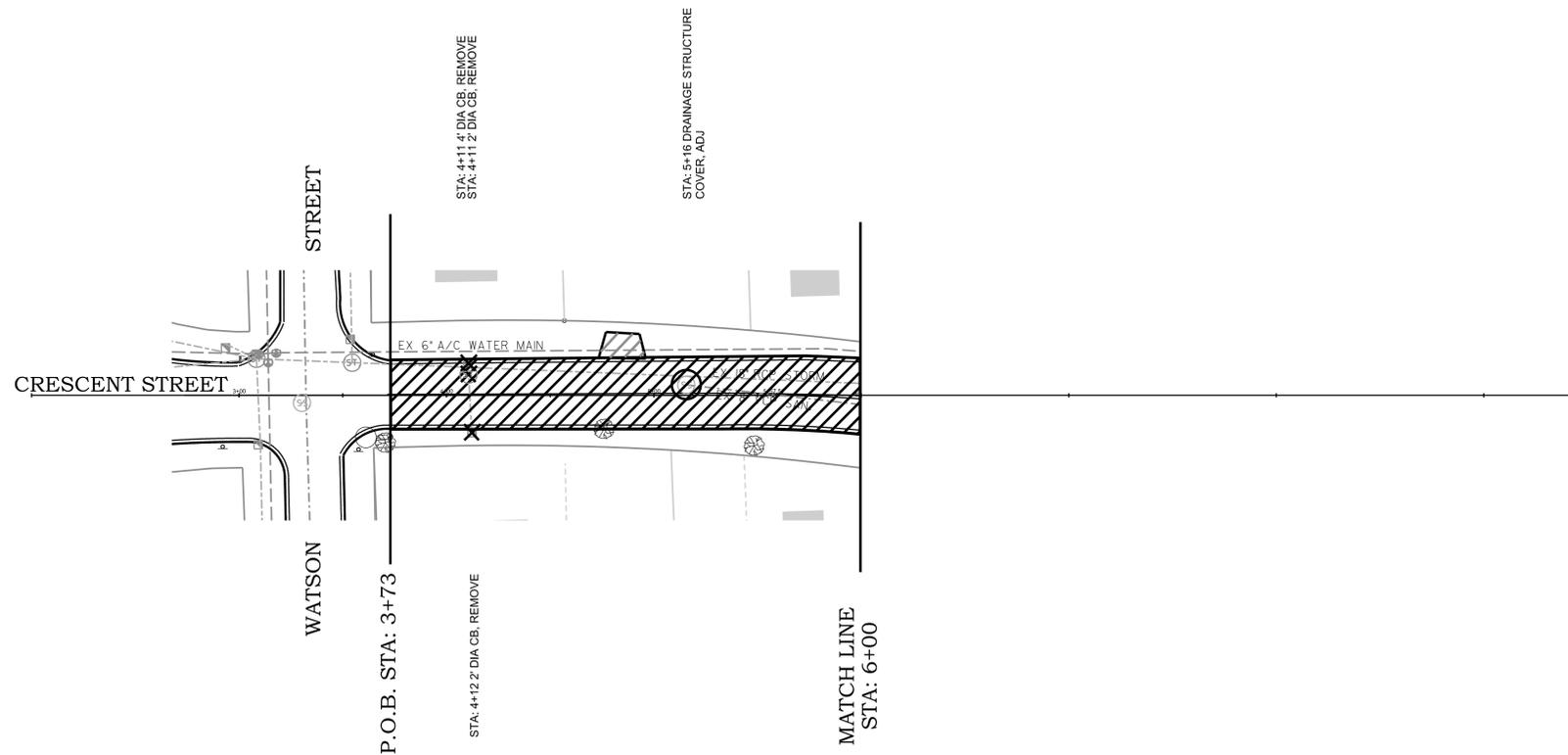
REVISIONS _____ DATE/INITIALS _____

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
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PLOT DATE: \$DATES



DRAWING PATH: _____ FED. PROJECT: _____ JOB NO.: _____ CONTROL SECTION: _____ LINCOLN STREET - FROM KANE TO RUSSELL

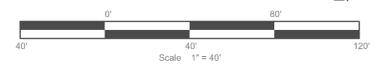


QUANTITIES THIS SHEET

ROADWAY ITEMS	
Minor Traf Devices	1 Ls
Structure, Rem	4 Ea
Masonry and Conc Structure, Rem	10 Cyd
Pav't, Rem	2,685 Syd
Machine Grading, Modified	6 Sta
Subgrade Undercutting, Type II	10 Cyd
Erosion Control, Filter Bag	7 Ea
Sewer, Rem, Less Than 24 Inch	65 Lft
Gas/Water Shutoff Cover, Adj, Case I	2 Ea
Plastic Drum, High Intensity, Lighted Furn	15 Ea
Plastic Drum, High Intensity, Lighted Oper	15 Ea
Barricade, Type III, High Intensity, Lighted Furn	8 Ea
Barricade, Type III, High Intensity, Lighted Oper	8 Ea
Curb and Gutter, Rem	1200 Lft

REMOVAL LEGEND

Sidewalk, Rem	
Pav't, Rem	
Drainage Structure Cover, Adj	
Gas and Water Shutoff, Adj, Modified	
Structure, Rem	
Curb and Gutter, Rem	
Sewer, Rem, less than 12 inch	



City of Mt. Pleasant
 DIVISION OF PUBLIC WORKS
 -ENGINEERING DEPARTMENT-

**REMOVAL SHEET
 CRESCENT STREET
 FROM WATSON TO HIGHLAND**

DESIGN BY B. BRICKNER	CONSTRUCTED
CHECKED BY C. SCHRIPEMA, PE	DATE OF PLAN
APPROVED BY	SCALE
	SHEET 3 OF 8 SHEETS

REVISIONS _____ DATE/INITIALS _____

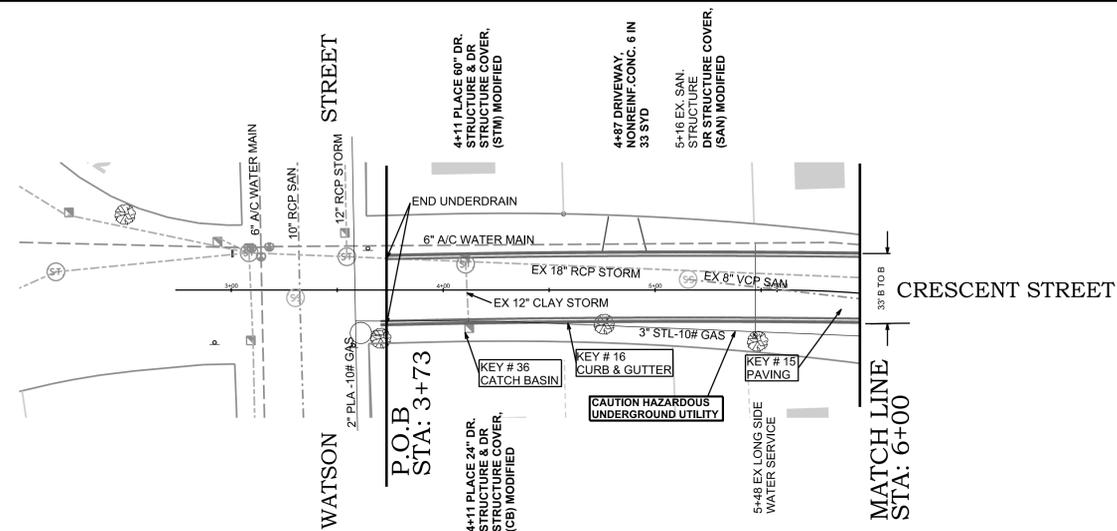
CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.

PLOT DATE: **\$DATES**

CALL MISS DIG
 BEFORE DIGGING UNDERGROUND OR
 MOVING, NEW OR EXISTING UTILITIES.
 CALL MISS DIG AT LEAST 3 BUSINESS
 DAYS IN ADVANCE OF STARTING YOUR
 PROJECT. (800) 482-7971

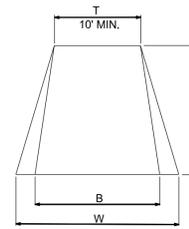
IT'S THE LAW

DRAWING PATH: _____ FED. ITEM NO. _____ FED. PROJECT: _____ JOB NO.: _____ CONTROL SECTION: _____ STREET NAME - FROM STREET TO TO STREET



CRESCENT STREET DRIVEWAY SCHEDULE

STATION	T	B	W	L	SYD
4+85 L	14	19	22	17	34



QUANTITIES THIS SHEET

ROADWAY ITEMS	QUANTITY
Subbase, CIP	250 Cyd
Aggregate Base, 8 Inch	750 Syd
Dr Structure, 24 Inch Dia	1 Ea
Dr Structure, 60 Inch Dia	1 Ea
Dr Structure Cover, Adj. Case 1	1 Ea
Dr Structure Cover, STM Modified	1 Ea
Dr Structure Cover, CB Modified	1 Ea
Dr Structure Cover, SAN Modified	1 Ea
HMA, 13A	60 Ton
HMA, 36A	60 Ton
Driveway, Nonrein. Conc., 6 Inch	34 Syd
Curb and Gutter, Conc., Det F4, Modified	454 Lft
Underdrain, Subgrade, Open Graded, 4 Inch, Modified	454 Lft
Restoration, Modified	2.3 Sta

EXISTING DRAINAGE STRUCTURES

STATION	OFFSET	SIZE	T/C / RIM ELEV.	REMARKS	INVERT ELEV.
4+11	17' L	24"	790.39 T/C	12" CLAY SOUTH	787.39
4+11	12' L	48"	790.23 RIM	18" CONC. EAST 18" CONC. WEST 12" CLAY NORTH 12" CLAY SOUTH	786.18 786.18 787.08 787.13
4+12	17' R	24"	790.54 T/C	12" CLAY NORTH 4" CONC. EAST 4" CONC. WEST	787.24 788.14 788.14
5+16	5' L	48"	790.83 RIM	8" VCP EAST (SAN)	784.33

PROPOSED DRAINAGE STRUCTURES

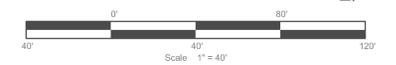
STATION	OFFSET	SIZE	T/C / RIM ELEV.	REMARKS	INVERT ELEV.
4+11	14' L	60"	790.39 T/C	18" CONC. EAST 18" CONC. WEST 12" CLAY NORTH 12" CLAY SOUTH	786.18 786.18 787.08 787.13
4+11	16' R	24"	790.39 T/C	12" CLAY NORTH 4" CONC. EAST 4" CONC. WEST	787.24 788.14 788.14

GENERAL NOTES:

INSTALL CATCH BASIN FILTER BAGS IN ALL STRUCTURES WITHIN THE INFLUENCE OF THE CONSTRUCTION SITE PRIOR TO COMMENCEMENT OF ANY WORK.

COST OF UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE TO BE INCLUDED IN THE UNIT PRICE FOR UNDERDRAIN, SUBGRADE, OPEN-GRADED, 4 IN, MODIFIED.

- WATER SERVICE
- TREE
- LIGHT POLE
- TRAFFIC CONTROL SIGN
- SANITARY SEWER MAN HOLE
- STORM SEWER MAN HOLE
- STORM SEWER CATCH BASIN
- KEY # 15 PAVING SOIL EROSION CONTROL KEY NUMBER



City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-

SHEET TITLE
CRESCENT STREET
WATSON STREET TO HIGHLAND STREET

DESIGN BY B. BRICKNER	CONSTRUCTED
CHECKED BY C. SCHRIPSEMA, PE	DATE OF PLAN
APPROVED BY	SCALE 1" = 40'
	SHEET 4 OF 8 SHEETS

REVISIONS	DATE/INITIALS

CALL MISS DIG
BEFORE DIGGING UNDERGROUND OR
BORING NEAR OVERHEAD WIRES.
CALL MISS DIG AT LEAST 3 BUSINESS
DAYS IN ADVANCE OF STARTING YOUR
PROJECT. (800) 482-7171

IT'S THE LAW

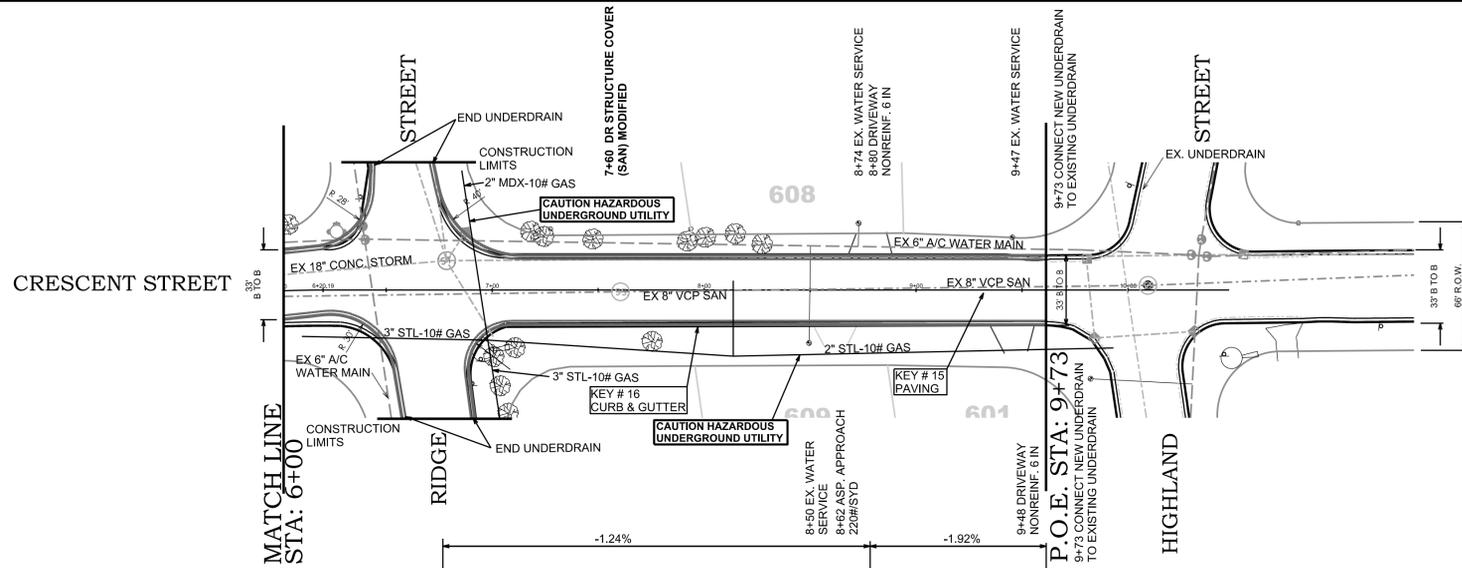
CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.

PLOT DATE: S DATES

PROF. TOP OF CURB	EXIST. TOP OF CURB	PROF. C/L	EXIST. C/L	PROF. TOP OF CURB	EXIST. TOP OF CURB	PROF. C/L	EXIST. C/L	PROF. TOP OF CURB	EXIST. TOP OF CURB	PROF. C/L	EXIST. C/L	PROF. TOP OF CURB	EXIST. TOP OF CURB	PROF. C/L	EXIST. C/L
790				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
785				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
780				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
795				PR 790.54 EX 791.17				PR 790.54 EX 791.17				PR 790.54 EX 791.17			
790				PR 790.54 EX 791.17				PR 790.54 EX 791.17				PR 790.54 EX 791.17			
785				PR 790.54 EX 791.17				PR 790.54 EX 791.17				PR 790.54 EX 791.17			
780				PR 790.54 EX 791.17				PR 790.54 EX 791.17				PR 790.54 EX 791.17			
795				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
790				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
785				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
780				PR 790.62 EX 790.61				PR 790.62 EX 790.61				PR 790.62 EX 790.61			
795				PR 790.91 EX 790.91				PR 790.91 EX 790.91				PR 790.91 EX 790.91			
790				PR 790.91 EX 790.91				PR 790.91 EX 790.91				PR 790.91 EX 790.91			
785				PR 790.91 EX 790.91				PR 790.91 EX 790.91				PR 790.91 EX 790.91			
780				PR 790.91 EX 790.91				PR 790.91 EX 790.91				PR 790.91 EX 790.91			
795				PR 791.21 EX 791.42				PR 791.21 EX 791.42				PR 791.21 EX 791.42			
790				PR 791.21 EX 791.42				PR 791.21 EX 791.42				PR 791.21 EX 791.42			
785				PR 791.21 EX 791.42				PR 791.21 EX 791.42				PR 791.21 EX 791.42			
780				PR 791.21 EX 791.42				PR 791.21 EX 791.42				PR 791.21 EX 791.42			

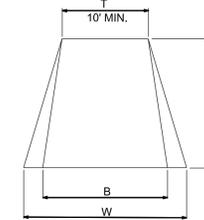
3+00 4+00 5+00 6+00

DRAWING PATH: CONTROL SECTION: CRESCENT STREET



CRESCENT STREET DRIVEWAY SCHEDULE

STATION	T	B	W	L	DRIVEWAY, NONREINF.	ASP. APPROACH
					6\"/>	
8+62 R	10	15	18	10	6\"/>	
8+80 L	15	20	23	10	22	16
9+48 R	11	16	19	14	24	



DRIVEWAY APPROACH PLAN

QUANTITIES THIS SHEET

ROADWAY ITEMS	QUANTITY
Subbase, CIP	610 Cyd
Aggregate Base, 8 Inch	1725 Syd
Dr Structure Cover, Adj, Case 1	2 Ea
Dr Structure Cover, STM Modified	1 Ea
Dr Structure Cover, SAN Modified	1 Ea
HMA, 13A	95 Ton
HMA, 36A	95 Ton
HMA Approach	78 Ton
Driveway, Nonreinf. Conc., 6 Inch	45 Syd
Curb and Gutter, Conc., Det F4, Modified	785 Lft
Underdrain, Subgrade, Open Graded 4 Inch, Modified	785 Lft
Restoration, Modified	3.73 Sta

EXISTING DRAINAGE STRUCTURES

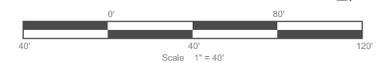
STATION	OFFSET	SIZE	T/C / RIM ELEV.	REMARKS	INVERT ELEV.
6+77	14' L	48"	792.24 RIM	18" CONC. EAST 12" CONC. NORTH 8" CONC. NORTH 18" CONC. WEST	784.54 784.59 788.59 784.44
7+60	1' R	48"	791.45 RIM	8" VCP EAST (SAN) 8" VCP WEST (SAN)	783.02 783.02

GENERAL NOTES:

INSTALL CATCH BASIN FILTER BAGS IN ALL STRUCTURES WITHIN THE INFLUENCE OF THE CONSTRUCTION SITE PRIOR TO COMMENCEMENT OF ANY WORK.

COST OF UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE TO BE INCLUDED IN THE UNIT PRICE FOR UNDERDRAIN, SUBGRADE, OPEN-GRADED, 4 IN, MODIFIED.

- WATER SERVICE
- TREE
- LIGHT POLE
- ◆ TRAFFIC CONTROL SIGN
- ⊕ SANITARY SEWER MAN HOLE
- ⊕ STORM SEWER MAN HOLE
- STORM SEWER CATCH BASIN
- KEY # 15 PAVING SOIL EROSION CONTROL KEY NUMBER



City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-

SHEET TITLE
CRESCENT STREET
FROM RIDGE STREET TO HIGHLAND STREET

DESIGN BY B. BRICKNER	CONSTRUCTED
CHECKED BY C. SCHRIPSEMA, PE	DATE OF PLAN
APPROVED BY	SCALE 1" = 40'
	SHEET 5 OF 8 SHEETS

REVISIONS	DATE/INITIALS

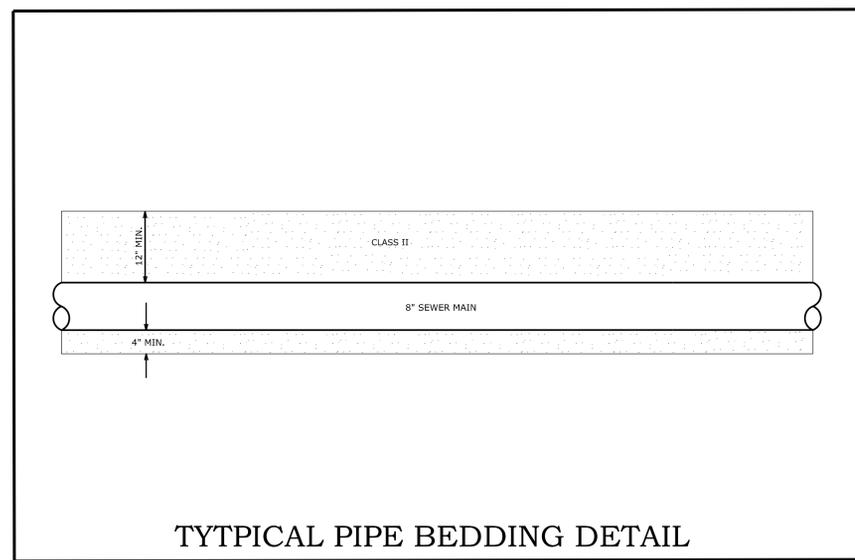
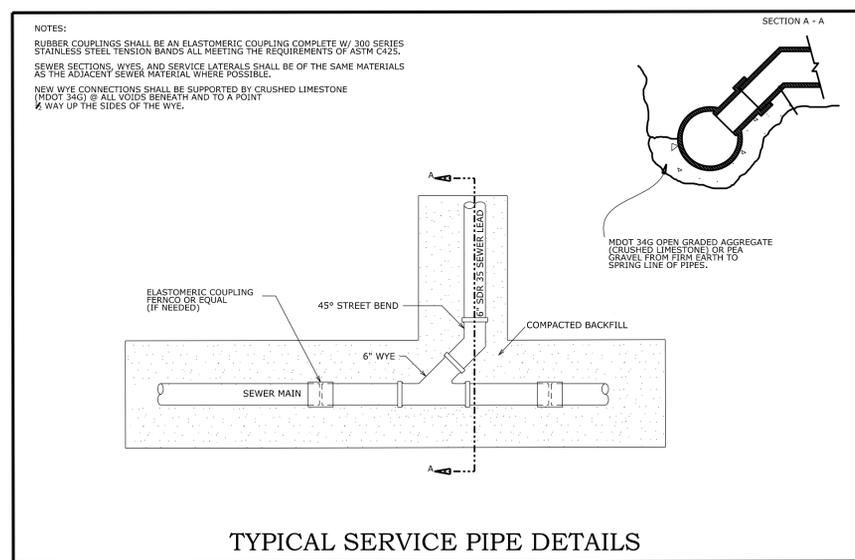
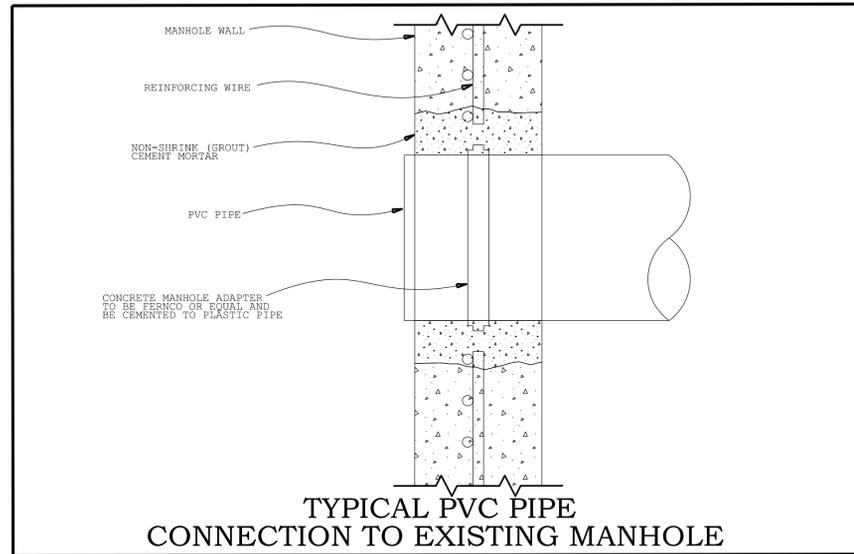
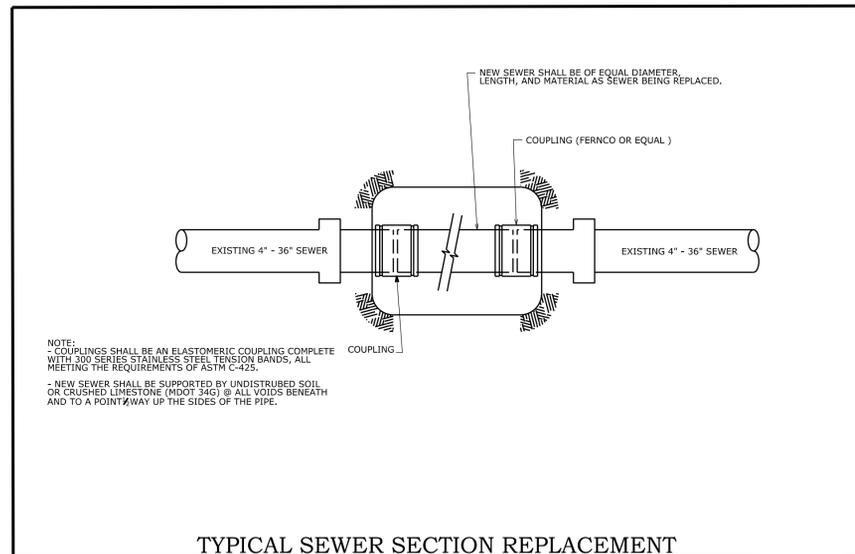
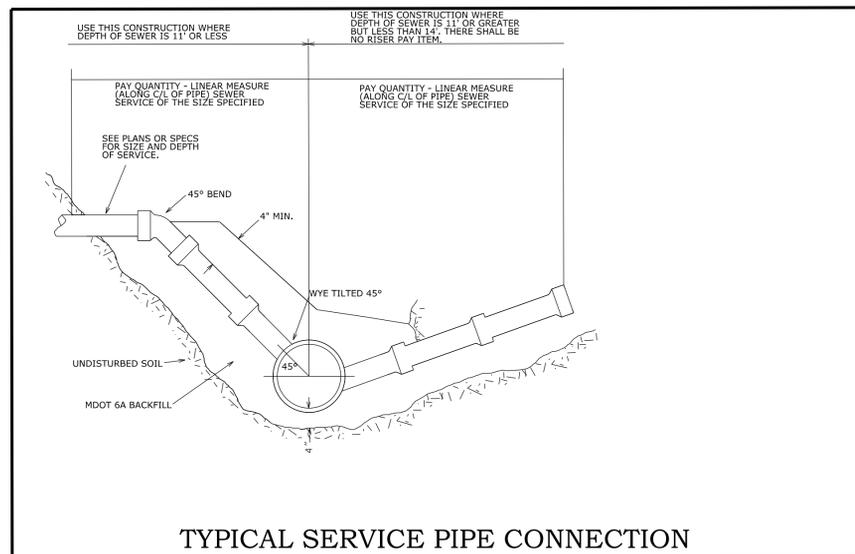
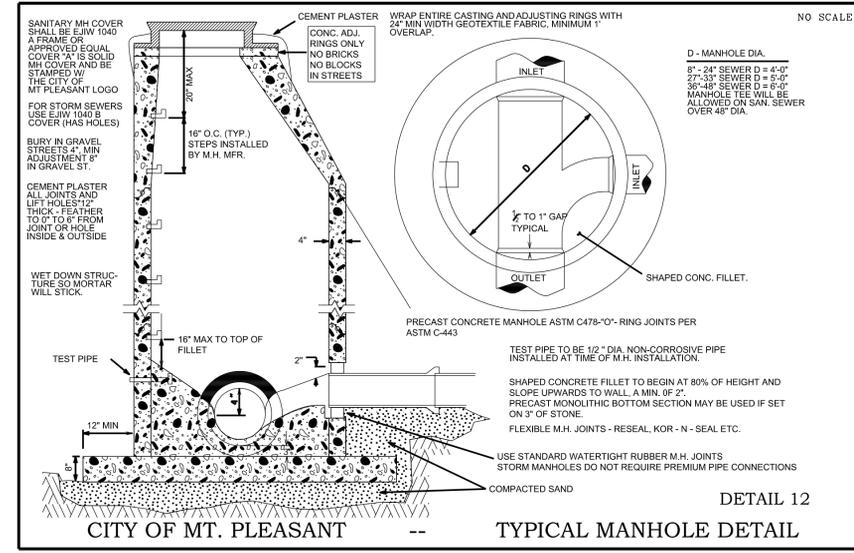
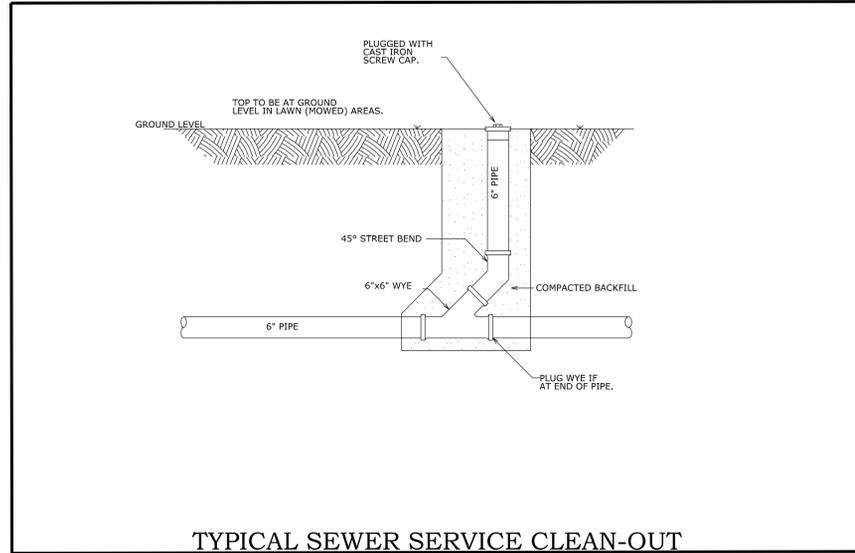
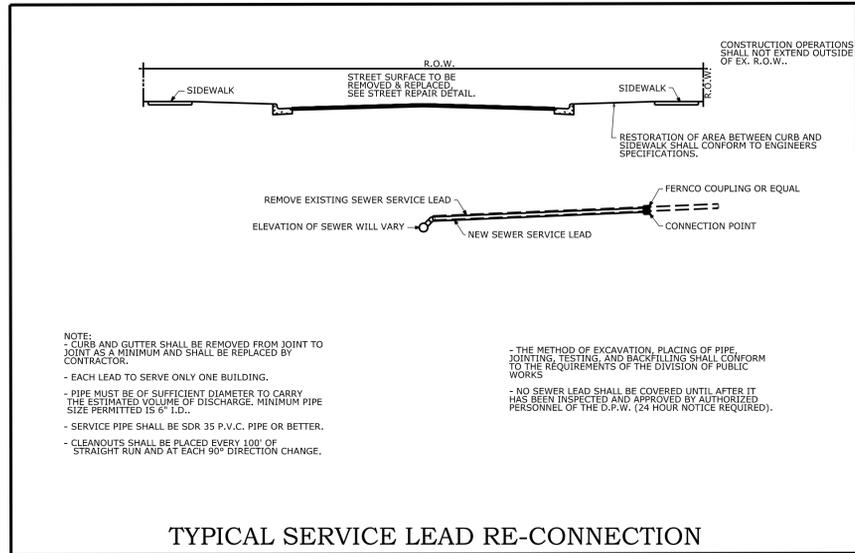
CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
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PLOT DATE: \$DATES

CALL MISS DIG
BEFORE DIGGING UNDERGROUND OR
BORING NEAR OVERHEAD WIRES.
CALL MISS DIG AT LEAST 2 BUSINESS
DAYS IN ADVANCE OF STARTING YOUR
PROJECT. (800) 482-7171
IT'S THE LAW

PROP. TOP OF CURB	EXIST. TOP OF CURB	PROP. CIL	EXIST. CIL	PROP. TOP OF CURB	EXIST. TOP OF CURB	PROP. CIL	EXIST. CIL	PROP. TOP OF CURB	EXIST. TOP OF CURB	PROP. CIL	EXIST. CIL	PROP. TOP OF CURB	EXIST. TOP OF CURB	PROP. CIL	EXIST. CIL	PROP. TOP OF CURB	EXIST. TOP OF CURB	PROP. CIL	EXIST. CIL
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DRAWING PATH: CRESCENT STREET CONTROL SECTION: CRESCENT STREET



SEWER CONSTRUCTION NOTES:

THE CONTRACTOR SHALL CALL "MISS DIG" (1-800-482-7171) A MINIMUM OF THREE WORKING DAYS PRIOR TO CONSTRUCTION.

ALL EXISTING SEWER SERVICES WILL BE EXPOSED BY THE CONTRACTOR PRIOR TO REPLACEMENT TO DETERMINE THE EXACT LOCATION OF THE SEWER SERVICE AT THE PROPERTY LINE. SEWER SERVICES SHOWN ON THE PLANS ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY.

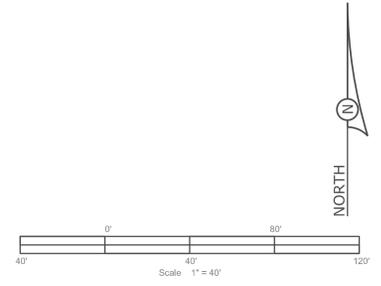
ALL SEWER SERVICES SHALL END IN AN OPEN CUT, WHERE THE PROPOSED SEWER IS LOCATED WITHIN THE TRAVELED SURFACE OF AN UNIMPROVED ROAD, THE HOUSE OR BUILDING SERVICE SHALL BE INSTALLED IN AN OPEN CUT. HOUSE AND BUILDING SERVICE PIPE AND JOINTS SHALL CONFORM TO THAT SPECIFIED OR AS LISTED IN THE PROPOSAL. PAY QUANTITY FOR SERVICES SHALL INCLUDE MAKING CONNECTIONS WHERE NECESSARY, PROVIDING BONDS, PLUGS, WITNESS MARKERS, AND CONCRETE.

ALL CONSTRUCTION UNDER EXISTING OR PROPOSED PAVEMENT AND FUTURE UTILITIES, INCLUDING HOUSE SERVICES, SHALL BE COMPLETELY BACKFILLED WITH CLASS II GRANULAR MATERIAL, IN 12 INCH LAYERS, AND COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM UNIT WEIGHT, COST TO BE INCLUDED IN THE UNIT PRICE BID.

ALL PIPE, BENDS, AND PLUGS SHALL BE OF THE TYPE REQUIRED IN THE PROPOSAL ITEM FOR RISERS AND SHALL INCLUDE CLASS II GRANULAR MATERIAL BACKFILL AND CONCRETE WHERE REQUIRED.

ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE LOCAL MUNICIPALITY.

SPECIFIED & APPROVED SEWER MATERIALS OTHER THAN P.V.C. OR V.C.P. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



CALL MISS DIG

BEFORE DIGGING UNDERPASSES OR WORKING NEAR OVERHEAD WIRING. CALL MISS DIG AT LEAST 3 BUSINESS DAYS IN ADVANCE OF STARTING YOUR PROJECT. (800) 482-7171

IT'S THE LAW

City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-

**2012 STREET RECONSTRUCTION
SEWER DETAIL SHEET**

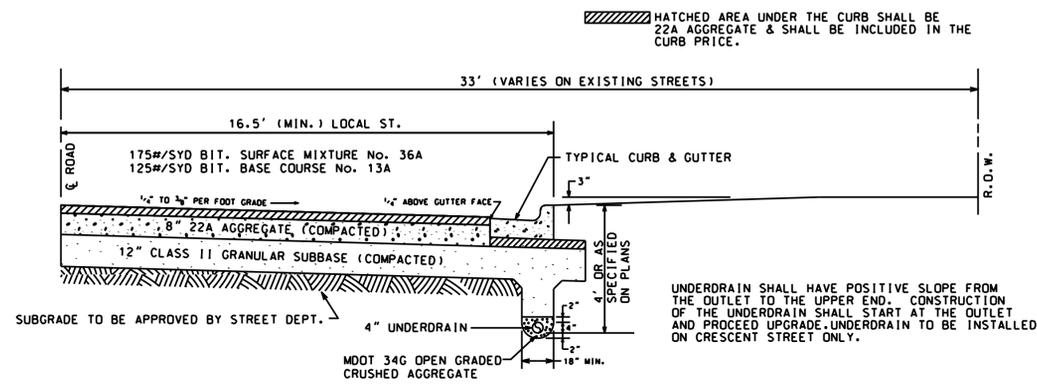
DESIGN BY	CONSTRUCTED
DRAWN BY B. BRICKNER	DATE OF PLAN FEB. 24, 2012
CHECKED BY C. SCHRIPSEMA, PE	SCALE 1" = 40'
APPROVED BY	SHEET 6 OF 8 SHEETS

REVISIONS _____ DATE/INITIALS _____

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
---------------	---------	--------------	---------------

PLOT DATE: _____

DRAWING PATH: FED. ITEM NO. JOB NO. CONTROL SECTION: 2011 STREET RECONSTRUCTION PROJECT



NOTE: SUBGRADE, SUBBASE, BASE MATERIAL, SHAPE, COMPACTION IS TO BE APPROVED IN WRITING BY THE STREET DEPARTMENT PRIOR TO PLACING THE NEXT LAYER OF MATERIAL.

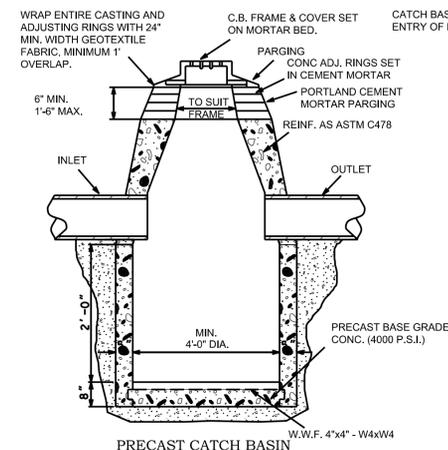
NEW STREET SHALL NOT BE ACCEPTED BY THE CITY UNTIL A PERIOD OF 12 MONTHS HAS PASSED FROM THE COMPLETION OF THE STREET. THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY REPAIRS FOR A PERIOD OF 2 YEARS.

THERE MAY BE SOME VARIATIONS IN SIZE OF STREET DUE TO EXISTING STREETS. ANY VARIATIONS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

WHERE A CLAY SUBGRADE OR HIGH GROUND WATER EXISTS UNDERDRAIN WILL BE REQUIRED. UNDERDRAIN MATERIAL SHALL MEET CITY SPECIFICATIONS.

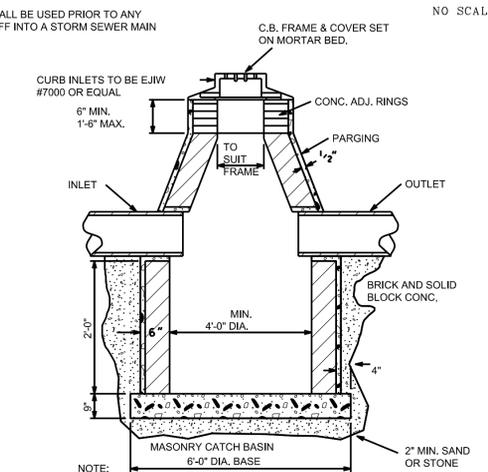
DETAIL 2

CITY OF MT. PLEASANT - TYPICAL LOCAL ST. CROSS SECTION



NOTE: CATCH BASIN FRAME & GRATE SHALL BE CITY OF MT. PLEASANT STANDARD EJIW #7000 OR EQUAL AND SHALL BE STAMPED WITH THE SHAPE OF A FISH AND THE WORDS "DUMP NO WASTE" AND "DRAINS TO RIVER".

PRECAST CONC. BASES MAY BE USED IN LIEU OF CAST IN PLACE BASES DETAILED. PRECAST BASES SHALL BE 6" THICK, GRADE AA CONC. (4000 P.S.I.) W4xW4 W.W.F. PLACED 3" BELOW TOP OF BASE. PRECAST BASES SHALL BE SET LEVEL ON A SAND CUSHION, MIN. THICKNESS 2"

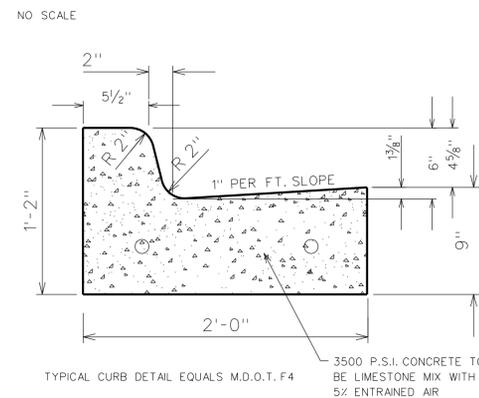


NOTE: EXISTING C.B. LEAD SIZES VARY. STEPS SHALL BE INSTALLED IN ALL 4' DIAMETER STRUCTURES MORE THAN 4' DEEP AND SHALL BE PLACED AT 16" INTERVALS AND OF APPROVED CITY DESIGN.

PARGING OVER MASONRY ON EXTERIOR SURFACES SHALL BE 1:2 CEMENT MORTAR, ONE COAT.

DETAIL 13

CITY OF MT. PLEASANT -- TYPICAL CATCH BASINS



NOTE:

A. EXPANSION JOINTS SHALL:

1. BE PLACED AT ALL SPRING LINES AND POINTS OF CURVATURE AND POINTS OF TANGENCY.
2. BE PLACED A MINIMUM OF EVERY 100 LINEAL FEET INTERVAL.
3. BE PLACED AT EXPANSION JOINTS IN ABUTTING PAVEMENT.
4. BE PLACED AT LOCATIONS SHOWN IN OTHER DETAILS AND TYPICAL DRAWINGS FOR HANDICAP RAMPS, SIDEWALKS, CONCRETE DRIVEWAY APPROACHES AS SHOWN ON THE PLANS AND/OR AS DIRECTED IN THE FIELD BY THE INSPECTOR OR ENGINEER.
5. BE PLACED AT ENDS OF PREVIOUSLY POURED CURB, IF PREVIOUS POUR WAS MADE 30 MINUTES OR MORE PRIOR TO THE CURRENT POUR (THIS INCLUDES AT BOTH ENDS OF CURB AND GUTTER REPLACEMENT ABUTTING EXISTING CONCRETE).

EXPANSION MATERIAL SHALL EXTEND THE FULL DEPTH AND WIDTH OF STRUCTURE WITH NO CONCRETE BRIDGING BETWEEN THE SEPARATED CONCRETE.

B. CONTRACTION JOINTS (USED ONLY IF SECTION IS STEEL REINFORCED):

1. CONTRACTION JOINTS SHALL BE PLACED OPPOSITE AND IN LINE WITH CONTRACTION JOINTS IN ABUTTING CONCRETE PAVEMENT.

C. PLANE OF WEAKNESS JOINTS SHALL:

1. BE PLACED UNIFORMLY (10 FT. MAX.) BETWEEN CONTRACTION AND/OR EXPANSION JOINTS.
2. BE PLACED AT STRUCTURES SUCH AS VALVES, POLES AND MANHOLES WHEN THESE STRUCTURES ARE WITHIN OR WITHIN A PORTION OF THE CURB AND GUTTER.

D. ALL CURB AND GUTTER IS TO HAVE A 2 INCH MIN. CLASS 22A AGGREGATE BASE (ON CITY CONTRACTS BASE IS INCIDENTAL TO CURB AND GUTTER PRICE).

E. ALL DRIVEWAY CUTS ARE TO HAVE THE BACK EDGE OF CURB A MIN. OF 1" ABOVE THE FLOW LINE OF THE GUTTER. AT LOCATIONS WHERE THE DRIVEWAY SLOPES AWAY FROM THE CURB THEN A HIGHER BACK OF CURB AT THE DRIVEWAY OPENINGS MAY BE REQUIRED TO KEEP AS MUCH WATER AS POSSIBLE FROM DRAINING ON TO THE DRIVEWAY. THE RECOMMENDED MAX. HEIGHT IS 2 INCHES.

F. WHITE PIGMENTED LIQUID CURING COMPOUND, ASTM C309, TYPE 1-D, CLASS B VEHICLE. RATE OF 1 GALLON PER 200 SQ. FEET IS TO BE APPLIED TO ALL EXPOSED CONCRETE AS SOON AS FREE WATER LEAVES THE SURFACE.

DETAIL 23

CITY OF MT. PLEASANT - TYPICAL CURB AND GUTTER

CALL MISS DIG
BEFORE DIGGING UNDERGROUND OR WORKING NEAR OVERHEAD WIRES.
CALL MISS DIG AT LEAST 3 BUSINESS DAYS IN ADVANCE OF STARTING YOUR PROJECT. (800) 482-7171.
IT'S THE LAW

City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-

**2012 STREET RECONSTRUCTION
SEWER DETAIL SHEET**

DESIGN BY	CONSTRUCTED
DRAWN BY B. BRICKNER	DATE OF PLAN FEB. 24, 2012
CHECKED BY C. SCHRIPEMA, PE	SCALE 1" = 40'
APPROVED BY	SHEET 7 OF 8 SHEETS

REVISIONS _____ DATE/INITIALS _____

CONTROL SECT. _____ JOB NO. _____ FED. PROJECT _____ FED. ITEM NO. _____

PLOT DATE: _____

DRAWING PATH: _____ FED. ITEM NO. _____ JOB NO. _____ CONTROL SECTION: _____ 2011 STREET RECONSTRUCTION PROJECT

MICHIGAN SOIL EROSION & SEDIMENTATION CONTROL GUIDEBOOK

FEBRUARY 1975 FIGURE 2



PERMANENT SEEDING GUIDE

	APR	MAY	JUN	JUL	AUG	SEPT	OCT
IRRIGATED AND/OR MULCH WITHOUT IRRIGATION OR MULCH							
IRRIGATED AND/OR MULCHED WITHOUT IRRIGATION OR MULCH							
IRRIGATED AND/OR MULCHED WITHOUT IRRIGATION OR MULCH							

RATE OF APPLICATION (ALL ZONES)

PER/1000 SF	PER ACRE
2 1/2 LB	3 BU
1 LB	20-25 LBS
3 LBS	30-40 LBS
1/2 LB	2-3 BU
3 LBS	20-25 LBS
3 LBS	2-3 BU

SEEDING ZONES

TEMPORARY SEEDING GUIDE		ZONE 1												
TYPE OF SEED		APR	MAY	JUN	JUL	AUG	SEPT	OCT						
SPRING OATS/BARLEY OR DOMESTIC RYEGRASS														
SUDANGRASS														
RYE OR PERENNIAL RYE														
WHEAT														

SOIL EROSION & SEDIMENTATION CONTROL PLAN

MICHIGAN UNIFIED KEYING SYSTEM

SESC GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY AND PERMANENT CONTROL MEASURES UNTIL VEGETATION HAS BEEN ESTABLISHED ON ALL DISTURBED AREAS. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTIONS, REMOVING ACCUMULATED SEDIMENT AND REPAIRING OR REPLACING DAMAGED CONTROL MEASURES. INSPECTIONS SHALL BE PERFORMED DAILY DURING THE CONSTRUCTION PROCESS. FOLLOWING CONSTRUCTION INSPECTIONS SHALL BE PERFORMED AT LEAST ON A WEEKLY BASIS AND AFTER EVERY SIGNIFICANT RAIN EVENT UNTIL VEGETATION HAS BEEN ESTABLISHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY CONTROL MEASURES AFTER ALL DISTURBED AREAS HAVE BEEN RESTORED AND VEGETATION HAS BEEN ESTABLISHED. INSTALL FILTER FABRIC UNDER ALL CATCH BASIN GRATES UNTIL PERMANENT SOIL EROSION MEASURES HAVE TAKEN EFFECT. INSTALL MUD TRACKING CONTROL DEVICE AND SILT FENCES PRIOR TO ANY SITE WORK.
- THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF PERMANENT CONTROL MEASURES AFTER THE ESTABLISHMENT OF VEGETATION ON DISTURBED AREAS. THE OWNER SHALL MAKE PERIODIC INSPECTIONS, AND REPLACE OR REPAIR DAMAGED PERMANENT CONTROL MEASURES AS REQUIRED.
- TIMING SEQUENCE AND CONSTRUCTION SCHEDULE:
 - PHASE ONE - EARTH GRADE CHANGE, DITCHES, UTILITIES, PARKING LOT SUBGRADE. PLACE AND MAINTAIN TEMPORARY CONTROL MEASURES DURING THIS CONSTRUCTION PHASE.
 - MUD TRACKING CONTROL DEVICE
 - GEOTEXTILE SILT FENCE AND/OR STRAW BALES
 - VEGETATIVE BUFFER
 - PHASE TWO - FINAL RESTORATION AND BITUMINOUS PAVING. MAINTAIN TEMPORARY AND PERMANENT CONTROL MEASURES. PLACE PERMANENT CONTROL MEASURE.
 - TOPSOIL, SEED, MULCH AND FERTILIZER IN ACCORDANCE WITH CURRENT MDDT STANDARDS AND SPECIFICATIONS. PERMANENT SEEDING REQUIRED BETWEEN MAY 1 THROUGH OCTOBER 1. DORMANT SEEDING REQUIRED AFTER NOVEMBER 15, BUT NOT ON FROZEN GROUND.
- ANTICIPATED START CONSTRUCTION DATES: PHASE 1: NOVEMBER 2006
- PERMANENT CONTROL MEASURES SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL EARTH CHANGE IS COMPLETED.
- TEMPORARY SEEDING, OR DORMANT SEEDING SHALL BE UTILIZED FOR "WINTER STABILIZATION".

* INDICATES APPLICABILITY OF A SPECIFIC CONTROL MEASURE TO ONE OR MORE OF THE SEVEN PROBLEM AREAS

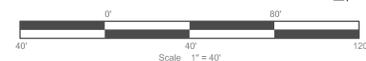
KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G
1	STRIPPING & STOCKPILING TOPSOIL	TOPSOIL MAY BE STOCKPILED ABOVE BORROW AREAS TO ACT AS A DIVERSION. STOCKPILE SHOULD BE TEMPORARILY SEEDDED.	*				*	*	
2	SELECTIVE GRADING & SHAPING	WATER CAN BE DIVERTED TO MINIMIZE EROSION. FLATTER SLOPES CAUSE EROSION PROBLEMS.	*				*	*	*
3	GRUBBING CHITTED	SAVES COST OF GRUBBING. PROMOTES NEW SPROUTS. RETAINS EXISTING SOIL. USES REMAINS WHO FALL AT NEW FOREST EDGE. DISCOURAGES EQUIPMENT ENTRANCE.	*				*	*	*
4	VEGETATIVE STABILIZATION	MAY UTILIZE A VARIETY OF PLANT MATERIAL. STABILIZES SOIL. SLOWS RUNOFF VELOCITY. FILTERS SEDIMENT FROM RUNOFF.	*	*	*	*	*	*	*
5	SEEDING	NEEDFUL AND VERY EFFECTIVE. STABILIZES SOIL. USES REMAINS WHO FALL AT NEW FOREST EDGE. PROMOTES RUNOFF TO INFILTRATE SOIL. REDUCES RUNOFF VOLUME. SHOULD INCLUDE PREPARED TOPSOIL BED.	*	*	*	*	*	*	*
6	SEEDING WITH MULCH AND/OR MATTING	FACILITATES ESTABLISHMENT OF VEGETATIVE COVER. SLOWS RUNOFF VELOCITY. FILTERS SEDIMENT FROM RUNOFF. EARLY PLACED IN SMALL QUANTITIES BY INDIVIDUALS. PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL BED.	*	*	*	*	*	*	*
7	HYDRO-SEEDING	EFFECTIVE ON LARGE AREAS. HELICOPTERS MAY BE USED TO PROMOTE IMMEDIATE PROTECTION UNTIL GRASS IS ROOTED. SHOULD INCLUDE PREPARED TOPSOIL BED.	*	*	*	*	*	*	*
8	SOODING	PROVIDES IMMEDIATE PROTECTION. CAN BE USED ON STEEP SLOPES WHERE SEEDS MAY BE DIFFICULT TO ESTABLISH. EASY TO PLACE. MAY BE REPAIRED IF DAMAGED. SHOULD INCLUDE PREPARED TOPSOIL BED.	*	*	*	*	*	*	*
9	VEGETATIVE BUFFER STRIP	SLOWS RUNOFF VELOCITY. FILTERS SEDIMENT FROM RUNOFF. REDUCES VOLUME OF RUNOFF ON SLOPES.	*	*	*	*	*	*	*
10	MULCHING	USED ALONE TO PROTECT EXPOSED AREAS FOR SHORT PERIODS. PROTECTS SOIL FROM IMPACT OF FALLING BARK. PRESERVES SOIL MOISTURE AND PROTECTS GERMINATING SEEDS FROM TEMPERATURE EXTREMES.	*				*	*	*
11	ROUGHENED SURFACE	REDUCES VELOCITY AND INCREASES INFILTRATION RATES. COLLECTS SEDIMENT. HOLDS WATER, SEEDS, AND MULCH BETTER THAN SMOOTH SURFACES.	*				*	*	*
12	COMPACTION	HELPS HOLD SOIL IN PLACE. MINORS EXPOSED AREAS LESS VULNERABLE TO DISOIN.	*				*	*	*
13	RIPRAP, RUBBLE, CARBONS	USES VEGETATION IS NOT EARLY ESTABLISHED. EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS. PROMOTES RUNOFF TO INFILTRATE SOIL. DISSIPATES ENERGY FLOW AT SYSTEM OUTLETS.	*	*	*	*	*	*	*
14	AGGREGATE COVER	STABILIZES SOIL SURFACE. TRAPS MINIMIZING EROSION. PERMITS CONSTRUCTION TRAFFIC IN ADVANCE. MOCHER. PART OF PERMANENT SIDE CONSTRUCTION OF PAVED AREAS.	*				*	*	*
15	PAVING	PROTECTS AREAS WHICH CANNOT OTHERWISE BE PROTECTED. BUT INCREASES RUNOFF VELOCITY AND VELOCITY. IRREGULAR SURFACE WILL HELP SLOW VELOCITY.	*				*	*	*
16	CLUB & GUTTER	KEEPS HIGH VELOCITY RUNOFF ON PAVED AREAS FROM LEAVING PAVED SURFACE. COLLECTS AND CONVEYS RUNOFF TO ENCLOSED DRAINAGE SYSTEM OR PREPARED DRAINAGEWAY.					*	*	*
17	BENCHES	REDUCES RUNOFF VELOCITY BY REDUCING EFFECTIVE SLOPE LENGTH. COLLECTS SEDIMENT. PROVIDES ACCESS TO SLOPES FOR SEEDING, MULCHING AND MAINTENANCE.	*				*	*	*
18	DIVERSION BOW	DIVERTS WATER FROM VULNERABLE AREAS. COLLECTS AND CONVEYS RUNOFF TO ENCLOSED DRAINAGE SYSTEM OR PREPARED DRAINAGEWAY. MAY BE PLACED AS PART OF NORMAL CONSTRUCTION OPERATION.	*				*	*	*

* INDICATES APPLICABILITY OF A SPECIFIC CONTROL MEASURE TO ONE OR MORE OF THE SEVEN PROBLEM AREAS

KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G
19	DIVERSION DITCH	COLLECTS AND DIVERTS WATER TO REDUCE EROSION POTENTIAL. MAY BE INCORPORATED IN PERMANENT PROJECT DRAINAGE SYSTEMS.	*				*	*	*
20	BERM & DITCH	DIVERTS WATER TO A PREPARED DRAINAGEWAY. MAY BE USED AS A DIVERSION. EFFECTIVE SLOPE LENGTH.	*				*	*	*
21	FILTER BEAM	CONSTRUCTED OF GRAVEL OR STONE. PREVENTS AND DIVERTS RUNOFF TO STABILIZED AREAS OR PREPARED DRAINAGE SYSTEMS. SLOWS RUNOFF AND COLLECTS SEDIMENT.	*	*			*	*	*
22	BRUSH FILTER	USES BRUSH AND LOGS FROM CLEARING OPERATIONS. CAN BE COLLECTED AND REUSED. ELIMINATES NEED FOR BURNING OR REMOVAL OF MATERIAL FROM SITE.	*				*	*	*
23	BASE CHANNEL	LEAST EXPENSIVE FORM OF DRAINAGEWAY. MAY BE USED ONLY WHERE GRADIENT IS VERY LOW AND WITH SOILS OF MINIMAL EROSION POTENTIAL.					*	*	*
24	GRASSED WATERWAY	MUCH MORE STABLE FORM OF DRAINAGEWAY THAN BASE CHANNEL. GRASS TENDS TO SLOW RUNOFF AND FILTER OUT SEDIMENT. USED WHERE BASE CHANNEL WOULD BE ERODED.					*	*	*
25	SLOPE DRAIN (SURFACE PIPE)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT. CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES.	*				*	*	*
26	SLOPE DRAIN (PIPE CHUTE)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT. CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES.	*				*	*	*
27	SLOPE DRAIN (SUBSURFACE PIPE)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT. CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES.	*				*	*	*
28	DROP SPILLWAY	SLOWS VELOCITY OF FLOW. REDUCES EROSION CAPACITY.		*	*		*	*	*
29	PIPE DROP	REDUCES RUNOFF VELOCITY. REMOVES SEDIMENT AND TURBIDITY. CAN BE DESIGNED TO HANDLE LARGE VOLUMES OF FLOW.		*	*		*	*	*
30	PIPE SPILLWAY	REMOVES SEDIMENT AND TURBIDITY FROM RUNOFF. MAY BE PART OF PERMANENT EROSION CONTROL PLAN.		*	*		*	*	*
31	ENERGY DISSIPATER	SLOWS RUNOFF VELOCITY TO NON-EROSIVE LEVEL. PROMOTES SEDIMENT COLLECTION FROM RUNOFF.	*	*	*		*	*	*
32	LEVEL SPREADER	CONVERTS COLLECTED CHANNEL OR PIPE FLOW BACK TO SHEET FLOW. REDUCES CHANNEL EROSION AND CONSTRUCTION OFF PROJECT SITE. SIMPLE TO CONSTRUCT.	*	*	*		*	*	*
33	SEDIMENTATION TRAP	MAY BE CONSTRUCTED OF A VARIETY OF MATERIALS. TRAPS SEDIMENT AND REDUCES VELOCITY OF FLOW. CAN BE CLEANED AND EXPANDED AS NEEDED.	*	*	*		*	*	*
34	SEDIMENT BASK	TRAPS SEDIMENT. REDUCES RUNOFF AT NON-EROSIVE RATES. CONTROLS RUNOFF AT SYSTEM OUTLETS. CAN BE REUSE, REPAIRS.	*	*	*		*	*	*
35	STORM SEWER	SYSTEM REMOVES COLLECTED RUNOFF FROM SITE, PARTICULARLY FROM PAVED AREAS. CAN ACCEPT LARGE CONCENTRATIONS OF RUNOFF. CONDUCTS RUNOFF TO MUNICIPAL STORM SYSTEM OR STABILIZED DITCH. LOCATING, USE GROSS BENCHES TO COLLECT SEDIMENT.	*	*	*		*	*	*
36	CATCH BASIN, DRAIN INLET	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF. MAY USE FILTER FABRIC OVER INLET.	*	*	*		*	*	*

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KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G
37	SOD FILTER	INEXPENSIVE AND EASY TO CONSTRUCT. PROTECTS AREAS AROUND INLETS FROM EROSION.					*	*	*
38	STRIP BALE FILTER	INEXPENSIVE AND EASY TO CONSTRUCT. PROTECTS AREAS AROUND INLETS FROM EROSION. MAY BE USED IN CONJUNCTION WITH SNOW FENCE FOR GOOD STABILITY.					*	*	*
39	ROCK FILTER	CAN UTILIZE MATERIAL FOUND ON SITE. FILTERS SEDIMENT FROM RUNOFF.					*	*	*
40	INLET SEDIMENT TRAP	EASY TO SWEEP. COLLECTS SEDIMENT. MAY BE CLEANED AND EXPANDED AS NEEDED.					*	*	*
41	STONE AND ROCK CROSSING	MAY BE ROCK OR CLEAN RUBBLE. CAN BE USED TO CROSS FLOODWAYS. INEXPENSIVE. MAY ALSO SERVE AS DITCH CHECK OR SEDIMENT TRAP.					*	*	*
42	TEMPORARY CULVERT	ELIMINATES STREAM TURBULENCE AND TURBIDITY. CAPACITY FOR NORMAL FLOW CAN BE PROVIDED WITH STORM WATER FLOWING OVER ROADWAY.					*	*	*
43	CULVERT SEDIMENT TRAP	EASY TO INSTALL AT INLET. KEEPS CULVERT CLEAN AND FREE FLOWING. MAY BE CONSTRUCTED OF LOGS OR LOGS.					*	*	*
44	CULVERT SEDIMENT TRAP	DEFLECTS CURRENTS AWAY FROM STREAMBANK AREAS.					*	*	*
45	TEMP. STREAM CHANNEL	NEW CHANNEL. KEEPS NORMAL FLOWS AWAY FROM CONSTRUCTION. REDUCES STORM FLOODING.					*	*	*
46	SHEET PILING	PROTECTS EROSION BANK AREAS FROM STREAM CURRENTS DURING CONSTRUCTION. MINIMAL DISRUPTION WHEN NEEDED.					*	*	*
47	COFFERDAM	WORK CAN BE CONTINUED DURING MOST ANTICIPATED STORM CONDITIONS. CLEAR WATER CAN BE PUMPED DIRECTLY BACK INTO STREAM.					*	*	*
48	CONSTRUCTION DAM	PERMITS WORK TO CONTINUE DURING NORMAL STREAM STAGES. CONTROLLED FLOODING CAN BE ACCOMPLISHED DURING PERIODS OF INACTIVITY.					*	*	*
49	CHECK DAMS	REDUCES FLOW VELOCITY. CATCHES SEDIMENT. CAN BE CONSTRUCTED OF LOGS, STRAW, HAY, ROCK, LIMBER, MASONRY, OR SAND BAGS.					*	*	*
50	WEIR	CONTROLS SEDIMENTATION IN LARGE STREAMS. CAUSES MINIMAL TURBIDITY.					*	*	*
51	RETAINING WALL	REDUCES GRADIENT WHERE SLOPES ARE EXTREMELY STEEP. PROMOTES RETENTION OF EXISTING VEGETATION, KEEPING SOIL STABLE IN MINIMIZES MAINTENANCE.					*	*	*
52	SEEPAGE CONTROL	PREVENTS PILING AND SOIL SLIPPAGE ON CUT SLOPES.					*	*	*
53	WINDBREAK	MINIMIZES WIND EROSION. MAY BE SNOW FENCE.					*	*	*
54	SILT FENCE	USES GEOTEXTILE FABRIC AND POSTS OR POLES. EASY TO CONSTRUCT AND LOCATE AS NECESSARY.					*	*	*



City of Mt. Pleasant
DIVISION OF PUBLIC WORKS
-ENGINEERING DEPARTMENT-
SHEET TITLE
2012 STREET RECONSTRUCTION

DESIGN BY	CONSTRUCTED
DRAWN BY B. BRICKNER	DATE OF PLAN
CHECKED BY C. SCHRIPSEMA, PE	SCALE
APPROVED BY	SHEET 8 OF 8 SHEETS

REVISIONS	DATE/INITIALS

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.

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DRAWING PATH: FED. PROJECT: JOB NO.: CONTROL SECTION: STREETNAME - FROM/STREET TO /POSTREET