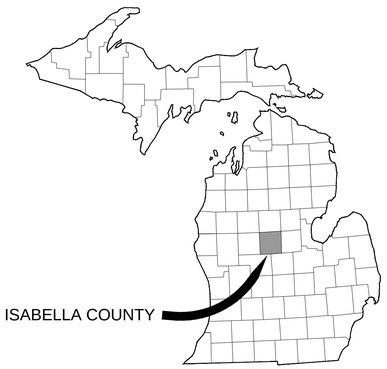
CITY OF MT. PLEASANT

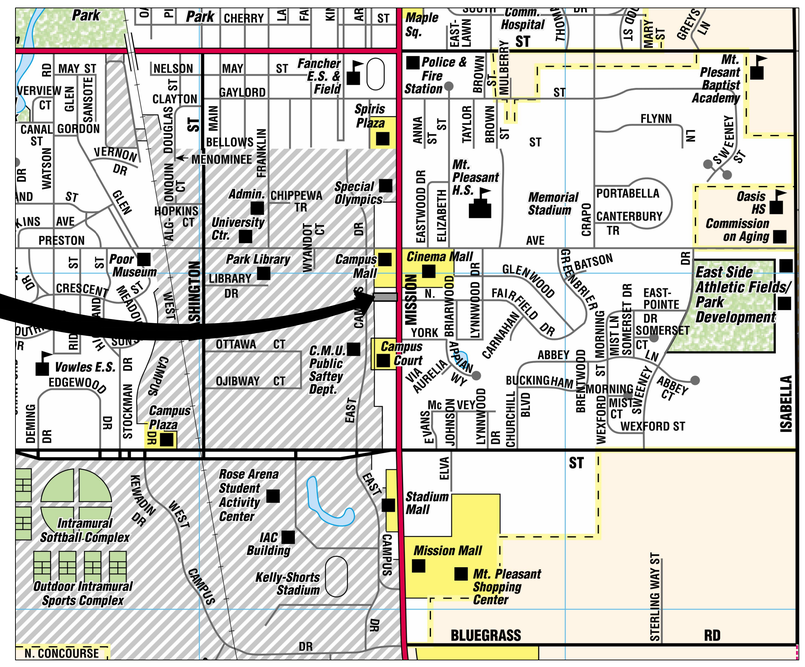
Isabella County, Michigan

MISSION STREET CONNECTOR #1



VICINITY MAP

PROJECT LOCATION



LOCATION MAP

NO SCALE

NORTH

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C1.0	COVER SHEET
C2.0	TOPOGRAPHIC SURVEY
C3.0	REMOVAL PLAN
C4.0	SITE PLAN
C5.0	GRADING PLAN
C6.0	DETAILS
C7.0	DETAILS

DATUM
VERTICAL: LOCAL DATUM
HORIZONTAL: STATE PLANE

UTILITIY CONTACTS

TELEPHONE:
FRONTIER COMMUNICATIONS
345 PINE AVENUE
ALMA, MI 48801
ATTENTION: MARK MARSHALL
PHONE: 989-463-0392

GAS:
DTE ENERGY/MICHCON
1011 HASTINGS
TRAVERSE CITY, MI 49684
ATTENTION: RONALD MARROW
PHONE: 231-258-3784
CELL: 231-590-1284

ELECTRIC:
CONSUMERS ENERGY
1325 WRIGHT AVENUE
ALMA, MI 48801
ATTENTION: RICH KLENDER
PHONE: 989-466-4279

CABLE:
CHARTER COMMUNICATIONS
915 EAST BROOMFIELD ROAD
MT. PLEASANT, MI 48858
ATTENTION: BRYON CARROLL
PHONE: 989-621-0505

WINN TELECOM:
402 N. MISSION STREET
MT. PLEASANT, MICHIGAN 48858
ATTENTION: PAUL LABRIE
CELL: 989-621-8788

MUNICIPAL CONTACTS

MT. PLEASANT CITY MANAGER:
CITY HALL - HISTORIC BORDEN BUILDING
320 W. BROADWAY
MT. PLEASANT, MICHIGAN 48858
ATTENTION: KATHIE GRINZINGER, CITY MANAGER
PHONE: 989-779-5323

MT. PLEASANT DIVISION OF PUBLIC WORKS:
1303 N. FRANKLIN STREET
MT. PLEASANT, MICHIGAN 48858
ATTENTION: JEN FLACHS, ENGINEERING AIDE
PHONE: 989-779-5406

MT. PLEASANT PLANNING & COMMUNITY DEVELOPMENT:
320 W. BROADWAY
MT. PLEASANT, MICHIGAN 48858
ATTENTION: JEFFREY M. GRAY, AICP, DIRECTOR
PHONE: 989-779-5347
EXT. 5346

EAST CAMPUS DRIVE
CENTRAL MICHIGAN UNIVERSITY
COMBINED SERVICES BUILDING
MT. PLEASANT, MICHIGAN
ATTENTION: STEVE LAWRENCE
PHONE: 989-774-7473

MICHIGAN DEPARTMENT OF TRANSPORTATION
1212 CORPORATE DRIVE
MT. PLEASANT, MICHIGAN 48858
ATTENTION: BEN BURROWS, PERMITS & MATERIALS
PHONE: 989-775-6104
EXT. 305

ALL PROPERTY AND/OR RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON PLANS PROVIDED BY UTILITY COMPANIES AND / OR THE CITY OF MT. PLEASANT OR IN FIELD OBSERVATIONS.

BEFORE YOU DIG
CALL MISS DIG
CALL 3 FULL WORKING DAYS:
811
or
1-800-482-7171

FLEIS & VANDENBRINK
ENGINEERING, INC.
304 W. Wackerly Road, Ste. 600, Midland, MI. 48640
Phone: (989) 837.3280 Fax: (989) 837.3290

PROJECT 813710

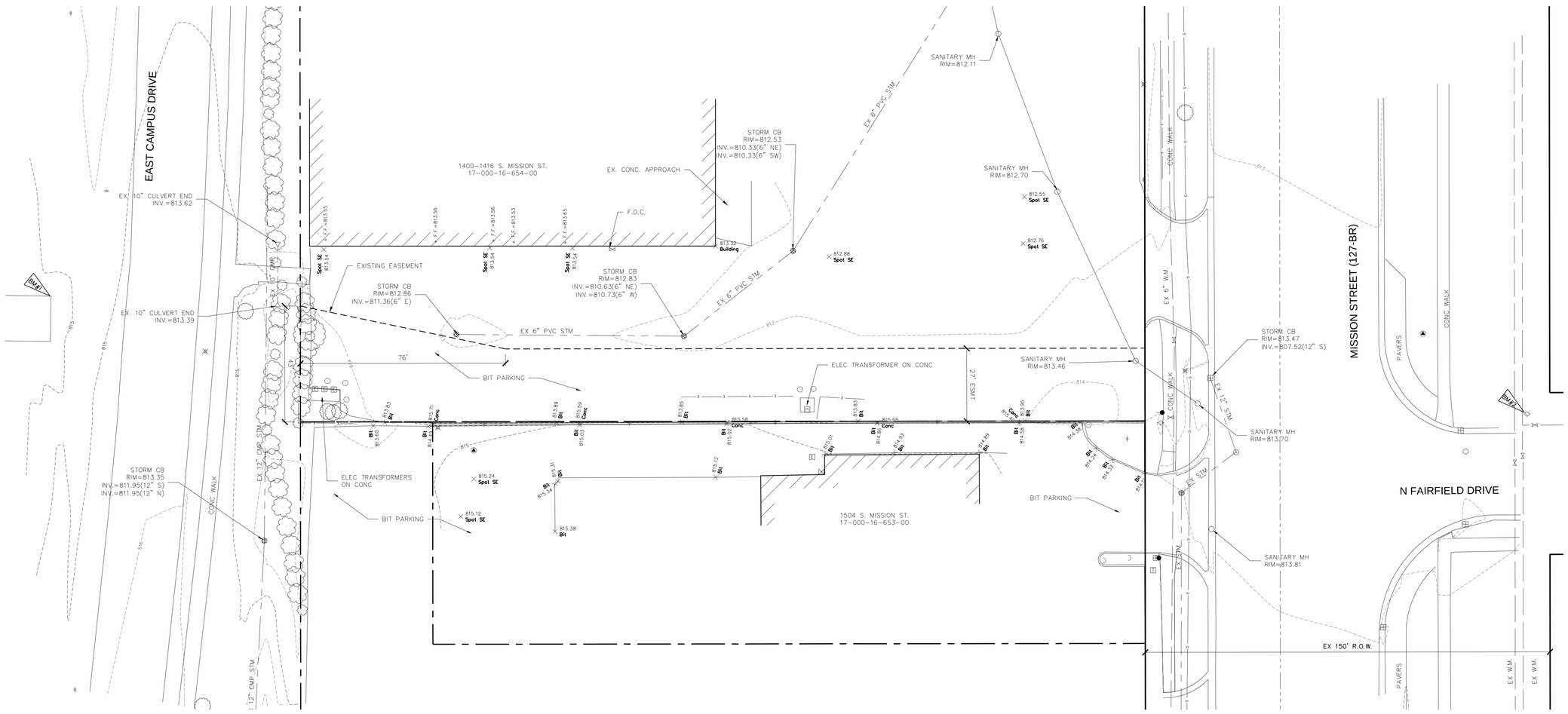
C1.0

BM #1 EL. 815.75'
NE CORNER CONC PAD, W SIDE OF CAMPUS DRIVE, W OF PROPOSED CONNECTOR, ±100' WNW OF TRANSFORMER PAD

BM #2 EL. 814.81
NW UPPER FLANGE BOLT, FH @ NE QUAD OF MISSION & FAIRFIELD

NORTH

0 20 40
SCALE IN FEET



LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE (DECIDUOUS)		CABLE BOX		TEMP. SURVEY POINT
	BUSH		TELEPHONE RISER		BENCHMARK
	TREE (CONIFEROUS)		TELEPHONE MANHOLE		SECTION CORNER
	DEAD TREE		ELECTRICAL RISER		PROPERTY LINE
	STUMP		ELECTRICAL MANHOLE		WATERMAIN
	MANHOLE		POWER POLE		SANITARY SEWER
	SANITARY CLEANOUT		LIGHT POLE		STORM SEWER
	RD. CATCH BASIN		GUY POLE		CABLE T.V.
	SQ. CATCH BASIN		GUY ANCHOR		TELEPHONE
	FIRE HYDRANT		RAILROAD		ELECTRIC
	WATER VALVE		YARD LIGHT		GAS
	CURB STOP & BOX		SIGN		OVERHEAD LINES
	WELL		MAILBOX		FENCE
	WATER MANHOLE		GUARD POST		WOODLINE
	WATER METER		FOUND CONC. MONUMENT		CULVERT (UNDER 10")
	SOIL BORING		FOUND IRON ROD		CULVERT (10" AND UP)
	MONITORING WELL		SET IRON ROD		

NOTE: ALL ITEMS LISTED ON THE LEGEND MAY NOT BE PRESENT ON DRAWING.

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F: 989.837.3290

ISSUED FOR BIDS
NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
	ISSUED FOR BIDS	DRS	6-27-13

REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS

CITY OF MOUNT PLEASANT
ISABELLA COUNTY, MICHIGAN
MISSION STREET CONNECTOR ROAD

TOPOGRAPHIC SURVEY

PROJECT MGR.	DESIGN/ENG.
GOB	DRS
DRAWN BY: DRS	ISSUE DATE: APR '13
CHECKED BY	DATE

CAD FILE: 813710 C2.0 TOPO
LOGIN: douglass 062713
DRAWING SCALE(S): 1"=20'

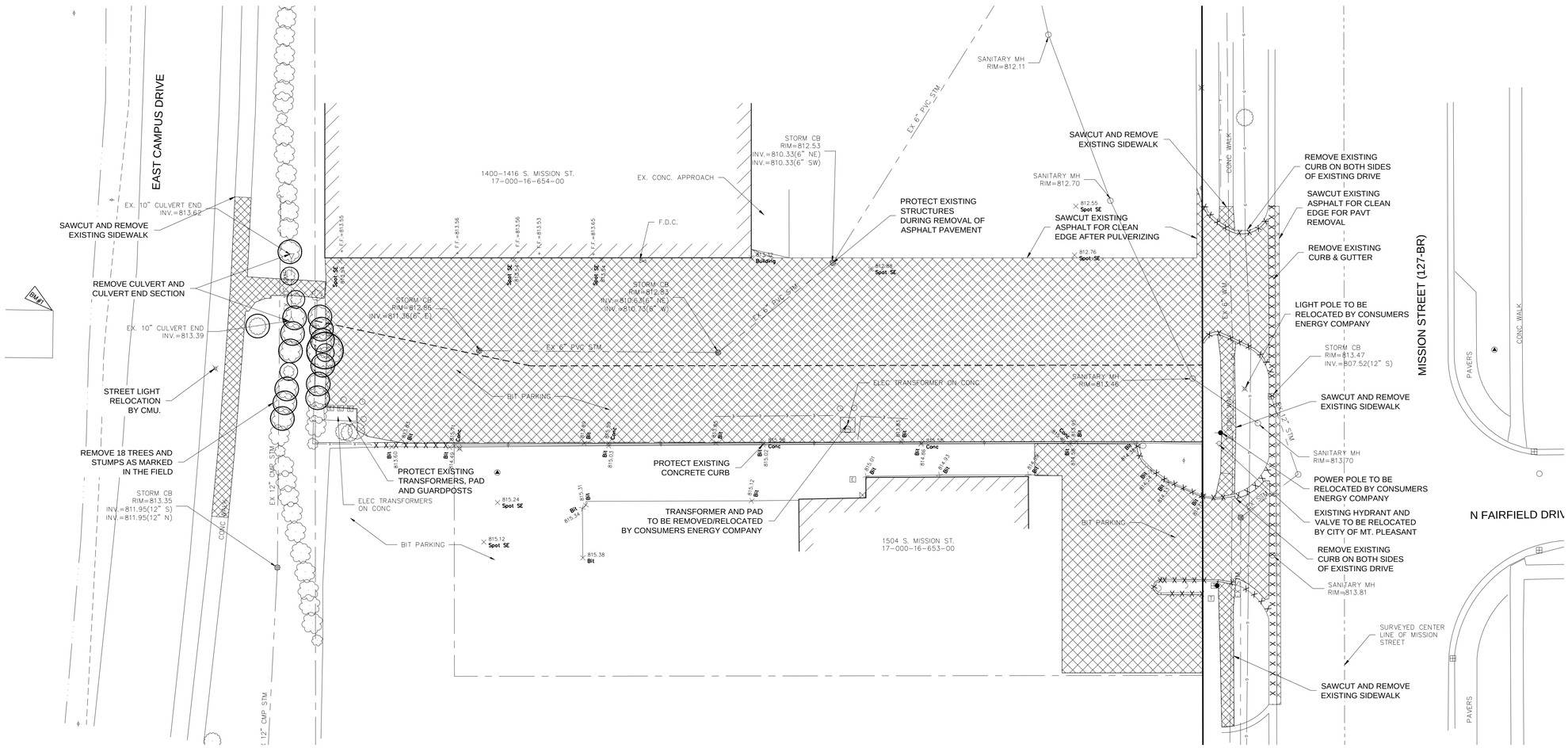
PROJECT: 813710

C2.0

SHEET NO.

BM #1 EL. 815.75'
NE CORNER CONC PAD, W SIDE OF CAMPUS DRIVE, W OF PROPOSED CONNECTOR, ±100' WNW OF TRANSFORMER PAD

BM #2 EL. 814.81
NW UPPER FLANGE BOLT, FH @ NE QUAD OF MISSION & FAIRFIELD



NOTES:
1. ALL EXISTING HMA TO BE PULVERIZED IN PLACE AND USED AS AGGREGATE BASE AS NEEDED. ALL EXCESS PULVERIZED HMA TO BE REMOVED AND DISPOSED OF OFF SITE.
2. CONTRACTOR TO COORDINATE RELOCATION OF POWER POLE, STREET LIGHTING, AND TRANSFORMER WITH CONSUMERS ENERGY COMPANY. ALL COSTS ASSOCIATED WITH THIS COORDINATION ARE TO BE INCIDENTAL TO THE CONTRACT.

LEGEND
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE SIDEWALK
- X X X X X REMOVE EXISTING CONCRETE CURB

ALL PROPERTY AND/OR RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE

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	ISSUED FOR BIDS	DRS	6-27-13

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CITY OF MOUNT PLEASANT
ISABELLA COUNTY, MICHIGAN
MISSION STREET CONNECTOR ROAD

REMOVAL PLAN

PROJECT MGR. GOB	DESIGN/ENG. DRS
DRAWN BY DRS	ISSUE DATE APR '13
CHECKED BY	DATE
CAD FILE 813710 C3.0 REM	
EDIT douglass 062713	
DRAWING SCALE(S) 1"=20'	

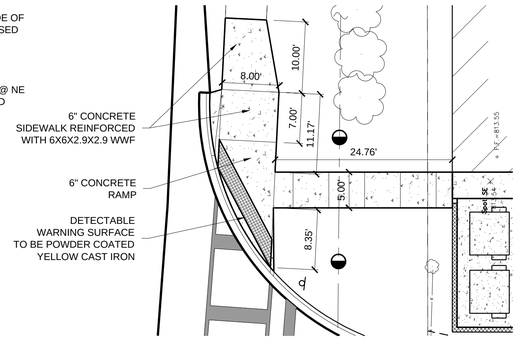
PROJECT 813710

C3.0

SHEET NO.

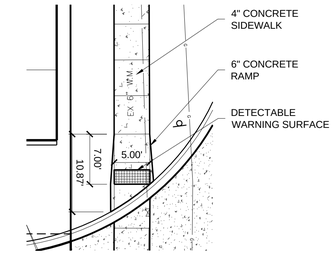
BM #1 EL. 815.75'
NE CORNER CONC PAD, W SIDE OF CAMPUS DRIVE, W OF PROPOSED CONNECTOR, ±100' WNW OF TRANSFORMER PAD

BM #2 EL. 814.81
NW UPPER FLANGE BOLT, FH @ NE QUAD OF MISSION & FAIRFIELD



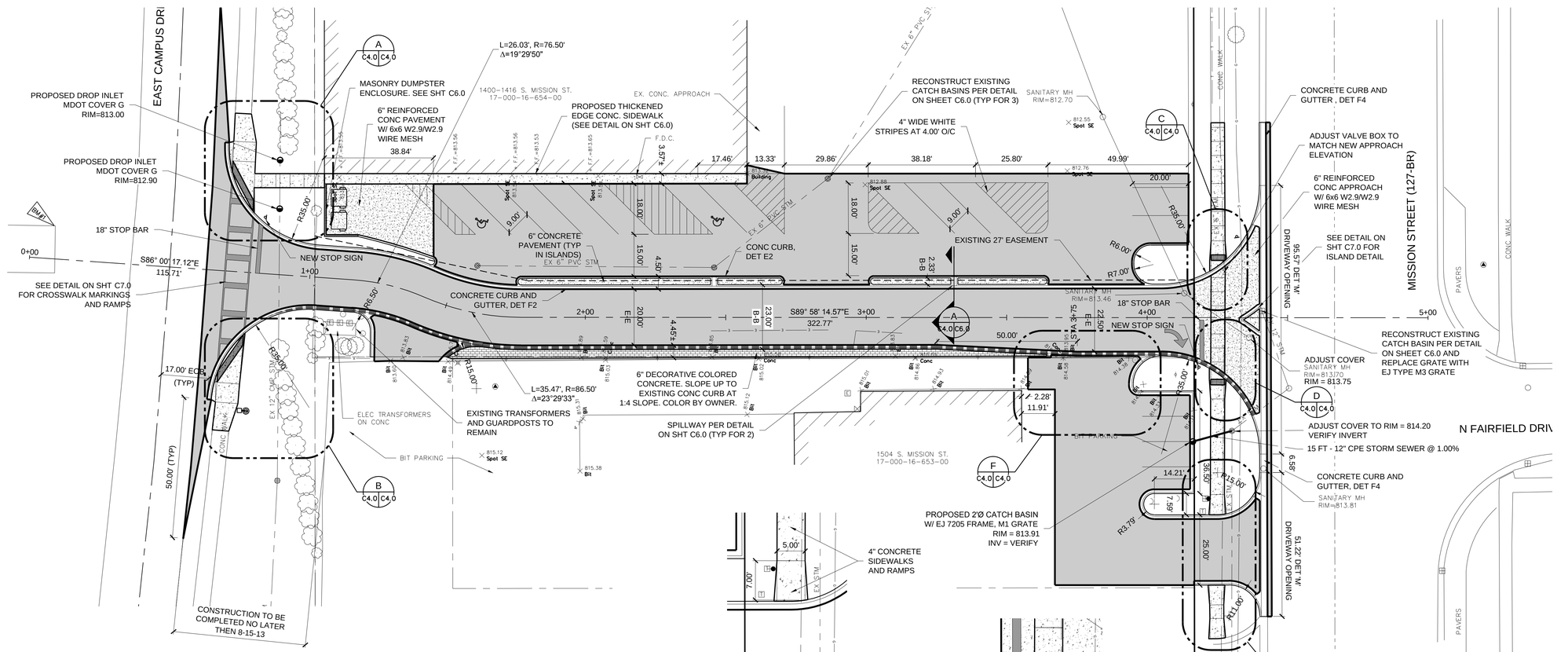
A C4.0 C4.0 SIDEWALK DETAIL
SCALE: 1"=10'

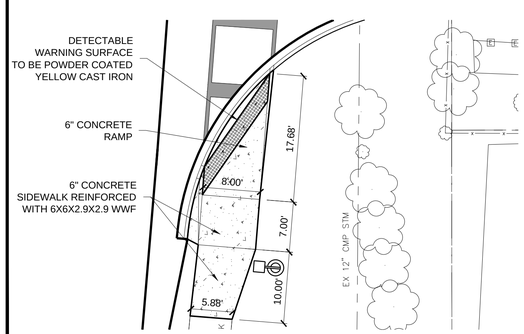
PHASING:
1. ALL CURB AND GUTTER, HMA, SIDEWALK, AND STORM DRAINAGE AT THE WEST END OF THE PROJECT ON CMU PROPERTY SHALL BE COMPLETE BY AUGUST 15, 2013. EAST CAMPUS DRIVE SHALL BE OPEN TO TRAFFIC WITH NO LANE CLOSURES.
2. THE NEW APPROACH FOR PAPA JOHN'S NEEDS TO BE COMPLETED BEFORE THE EAST END OF THE NEW ROAD CAN BE STARTED. THE EXISTING PAPA JOHN'S PARKING LOT SHALL NOT BE REMOVED AT THIS TIME. THE EXISTING PAPA JOHN'S APPROACH SHALL BE LEFT IN PLACE AND UTILIZED WHILE THE NEW APPROACH IS BEING INSTALLED.
3. AFTER THE NEW APPROACH IS COMPLETE, THE EXISTING PAPA JOHN'S APPROACH CAN BE CLOSED AND THE EAST END OF THE NEW ROAD CAN BE CONSTRUCTED.
4. AFTER THE NEW ROAD IS COMPLETE, THE PARKING LOT FOR PAPA JOHN'S CAN BE REMOVED AND REPLACED.



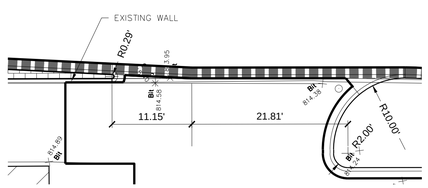
C C4.0 C4.0 SIDEWALK DETAIL
SCALE: 1"=10'

NORTH
0 20 40
SCALE IN FEET

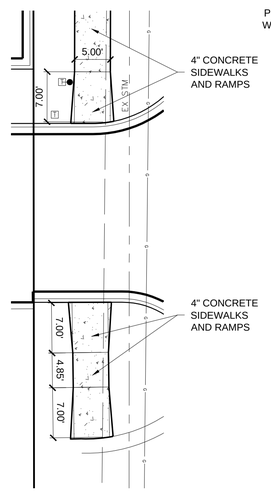




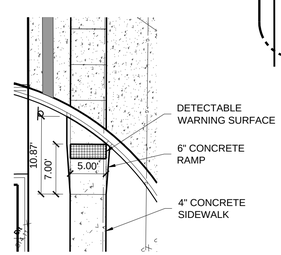
B C4.0 C4.0 SIDEWALK DETAIL
SCALE: 1"=10'



F C4.0 C4.0 SIDEWALK DETAIL
SCALE: 1"=10'



E C4.0 C4.0 SIDEWALK DETAIL
SCALE: 1"=10'



D C4.0 C4.0 SIDEWALK DETAIL
SCALE: 1"=10'

LEGEND
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- PROPOSED 6" REINFORCED CONCRETE PAVEMENT
- PROPOSED STAMPED COLORED CONCRETE
- INVERTED GUTTER PAN

NOTES:
1. CONTRACTOR TO SUBMIT SIGNAGE AND BARRICADE PLANS FOR APPROVAL FOR THE TEMPORARY LANE CLOSURE REQUIRED DURING CONSTRUCTION OF NEW ROADWAY.
2. CONTRACTOR TO COORDINATE RELOCATION OF POWER POLE, STREET LIGHTING, AND TRANSFORMER WITH CONSUMERS ENERGY COMPANY. ALL COSTS ASSOCIATED WITH THIS COORDINATION ARE TO BE INCIDENTAL TO THE CONTRACT.

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	ISSUED FOR BIDS	DRS	6-27-13

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CITY OF MOUNT PLEASANT
ISABELLA COUNTY, MICHIGAN
MISSION STREET CONNECTOR ROAD

SITE PLAN

PROJECT MGR.	DESIGN/ENG.
GOB	DRS
DRAWN BY	ISSUE DATE
DRS	APR '13
CHECKED BY	DATE
CAD FILE	813710 C4.0 SP
EDIT	dougloss 062713
DRAWING SCALE(S)	1"=20'

PROJECT 813710

C4.0

SHEET NO.

BM #1 EL. 815.75'
NE CORNER CONC PAD, W SIDE OF CAMPUS DRIVE, W OF PROPOSED CONNECTOR, ±100' WNW OF TRANSFORMER PAD

BM #2 EL. 814.81
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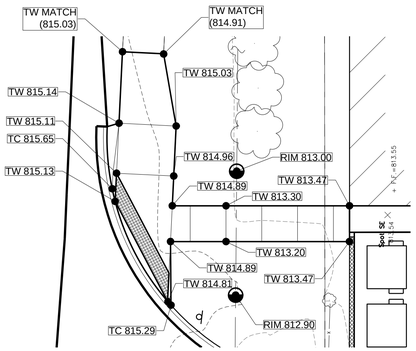
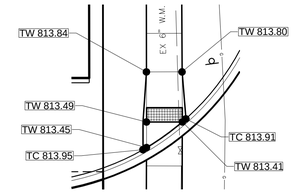


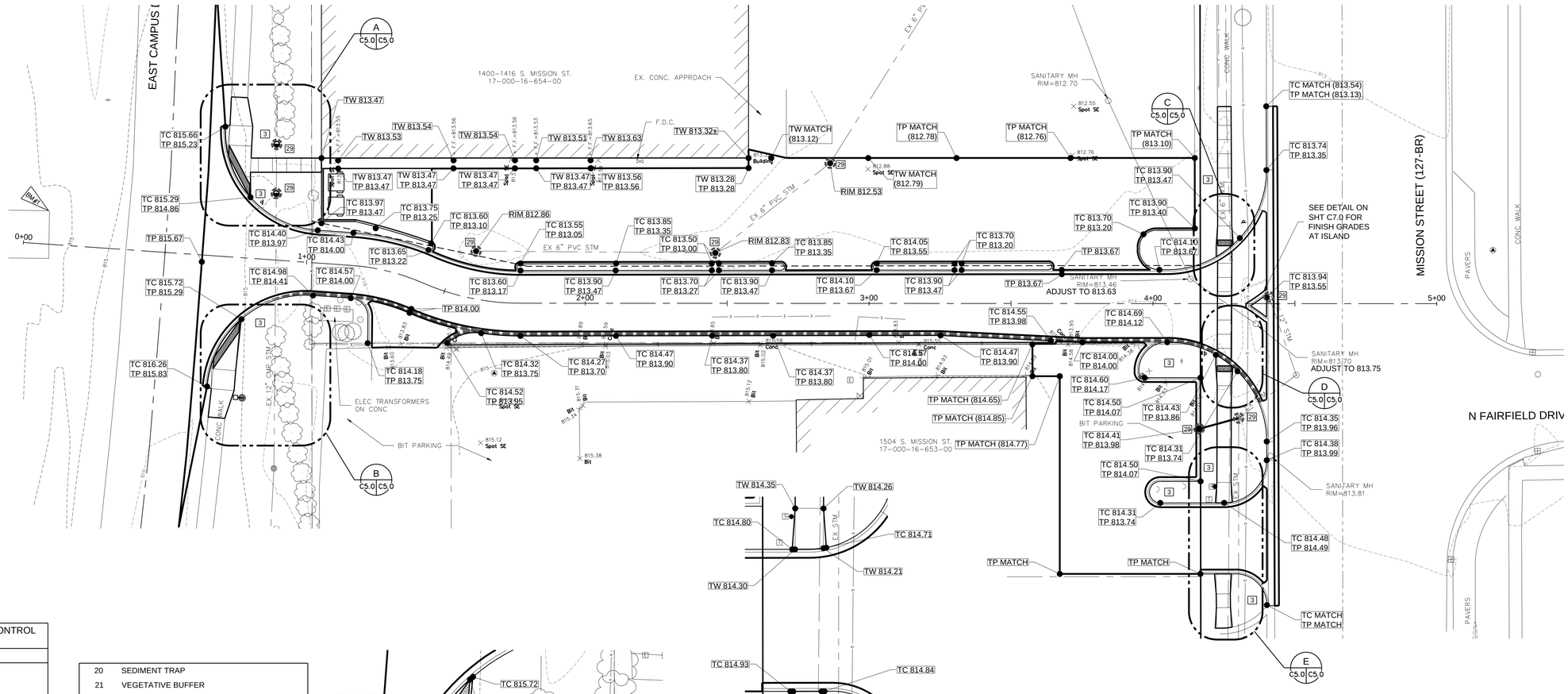
A C5.0 C5.0 SIDEWALK DETAIL
SCALE: 1"=10'

SOIL EROSION / SEDIMENTATION CONTROL OPERATION TIME SCHEDULE												
YEAR 2013												
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INSTALL & MAINTAIN TEMP. CONTROL MEASURES												
CONSTRUCTION SAFETY AND SECURITY												
SITE DEMOLITION												
CONSTRUCT ROADS AND WALKS												
FINISH GRADING/SEEDING												
CLEAN STORM WATER MANAGEMENT FACILITIES												
INSPECT FOR PERMANENT MEASURES FUNCTIONING												
REMOVE TEMPORARY MEASURES												

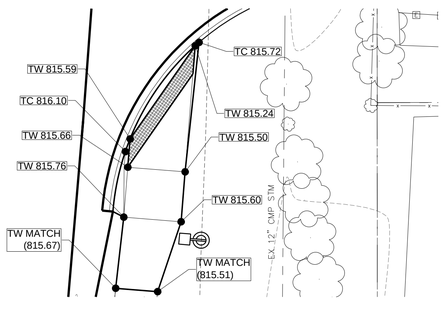


C C5.0 C5.0 SIDEWALK DETAIL
SCALE: 1"=10'

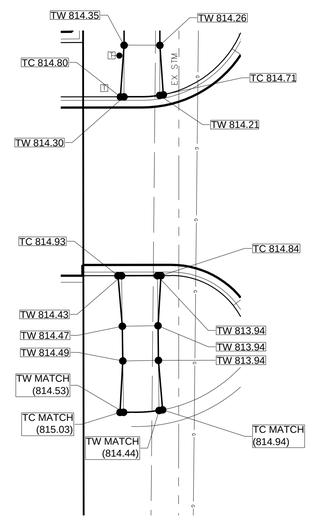
NORTH
0 20 40
SCALE IN FEET



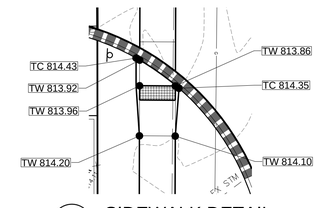
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	
KEY	DETAIL
1	TURBIDITY CURTAIN
2	GRUBBING OMITTED
3	PERMANENT /TEMPORARY SEEDING
4	DUST CONTROL
5	SODDING
6	VEGETATED BUFFER STRIPS
7	RIPRAP
8	AGGREGATE COVER
9	BENCHES
10	DIVERSION DIKE
11	INTERCEPTING DITCH
12	INTERCEPTING DITCH AND DIVERSION DIKE
13	GRAVEL FILTER BERM
14	GRAVEL ACCESS APPROACH
15	SLOPE DRAIN SURFACE
16	TREES, SHRUBS AND PERENNIALS
17	PIPE DROP
18	DEWATERING WITH FILTER BAG
19	ENERGY DISSIPATORS
20	SEDIMENT TRAP
21	VEGETATIVE BUFFER
22	VEGETATIVE BUFFER AND WATERCOURSE
23	STREAM RELOCATION
24	SAND AND STONE BAGS
25	SAND FENCE AND DUNE STABILIZATION
26	SILT FENCE
27	PLASTIC SHEETS OR GEOTEXTILE COVER
28	MULCHING AND MULCH ANCHORING
29	INLET PROTECTION FABRIC DROP
30	INLET PROTECTION GEOTEXTILE AND STONE
31	INLET PROTECTION SEDIMENT TRAP
32	SLOPE ROUGHENING AND SCARIFICATION
33	MULCH BLANKETS AND HIGH VELOCITY MULCH BLANKETS
34	COFFERDAM
35	TEMPORARY BYPASS CHANNEL
36	CONSTRUCTION DAM
37	CHECK DAM



B C5.0 C5.0 SIDEWALK DETAIL
SCALE: 1"=10'



E C5.0 C5.0 SIDEWALK DETAIL
SCALE: 1"=10'



D C5.0 C5.0 SIDEWALK DETAIL
SCALE: 1"=10'

LEGEND

TC	TOP OF CURB
TW	TOP OF WALK
TP	TOP OF PAVEMENT
- - - -	INVERTED CURB

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NO.	REVISIONS	BY	DATE
1	ISSUED FOR BIDS	DRS	6-27-13

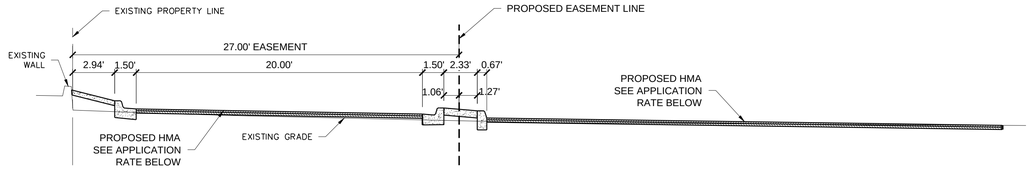
REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS

CITY OF MOUNT PLEASANT
ISABELLA COUNTY, MICHIGAN
MISSION STREET CONNECTOR ROAD

GRADING PLAN

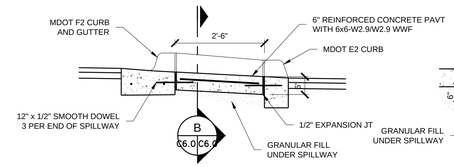
PROJECT MGR. GOB	DESIGN/ENG. DRS
DRAWN BY DRS	ISSUE DATE APR '13
CHECKED BY	DATE
CAD FILE 813710 C5.0 GP	
EDIT douglass 062713	
DRAWING SCALE(S) 1"=20'	

PROJECT 813710
C5.0
SHEET NO.

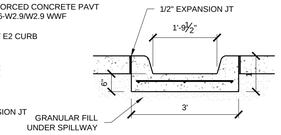


TYPICAL SECTION

SCALE: 1"=5-0"



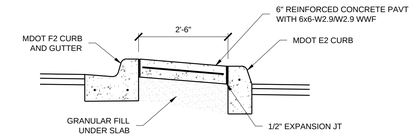
A C4.0 C6.0 SPILLWAY DETAIL
SCALE: 1/2"=1'-0"



B C6.0 C6.0 SPILLWAY SECTION
SCALE: 1/2"=1'-0"

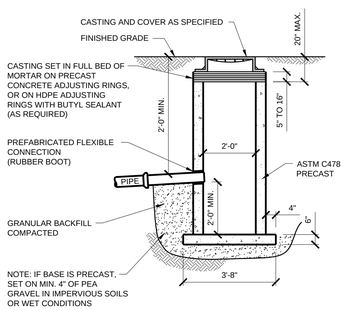
SPILLWAY DETAIL

NOT TO SCALE

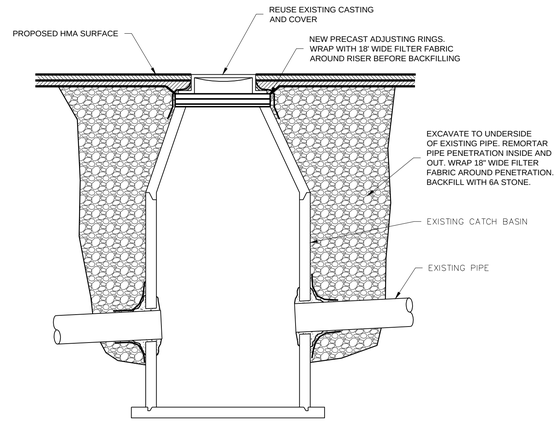


ISLAND DETAIL

NOT TO SCALE

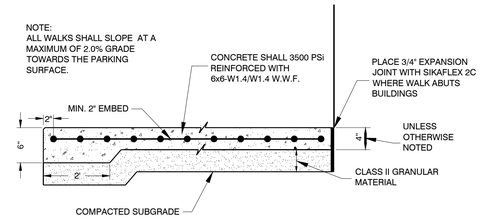


2' DIA. CATCH BASIN WITH SUMP



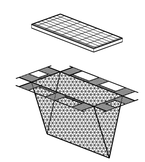
RECONSTRUCTION OF EXISTING CATCH BASINS

NOT TO SCALE



CONCRETE SIDEWALK ABUTTING PAVEMENT PARKING AREA

NOT TO SCALE

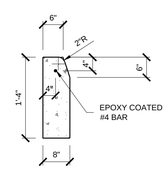


INLET PROTECTION FABRIC DROP

(SILT SACK)
USE AT STORM WATER INLETS

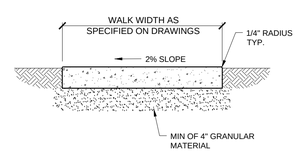
HMA APPLICATION TABLE						
COURSE	TYPE	ITEM	EST. YIELD	BINDER GRADE	AWI	REMARKS
1	LEVELING	HMA, 3C	220 LBS/SYD	PG 64-28	-	
2	SURFACE	HMA, 4C	165 LBS/SYD	PG 64-28	220	

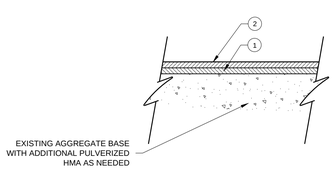
NOTE: BOND COAT SHALL BE APPLIED BETWEEN SUCCESSIVE COURSES OF HMA (PAYMENT INCLUDED IN HMA MIX). APPLICATION RATE 0.00 - 0.10 GAL/SYD SS-IH, AS DIRECTED BY ENGINEER.



MDOT E2 CURB DETAIL

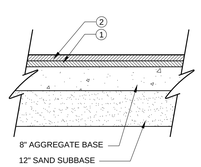
NOT TO SCALE





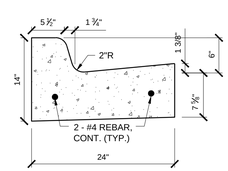
TYPICAL HMA PAVEMENT SECTION IN AREAS PREVIOUSLY PAVED

NOT TO SCALE



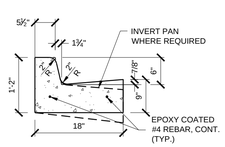
TYPICAL HMA PAVEMENT SECTION OVER PREVIOUSLY UNPAVED AREA

NOT TO SCALE



MDOT F4 GUTTER DETAIL

NOT TO SCALE



MDOT F2 GUTTER DETAIL

NOT TO SCALE

NOTES:

1. ½" EXPANSION JOINTS SHALL BE MAXIMUM OF 50' ON CENTER
2. ½" EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN SIDEWALK AND RIGID STRUCTURES.
3. INSOFAR AS POSSIBLE, SIDEWALK SHALL BE DIVIDED INTO SQUARE UNIT AREAS BY MEANS OF CUT CONTROL JOINTS NOT MORE THAN 36 SFT OR LESS THAN 16 SFT.

4" CONCRETE SIDEWALK

FLEIS & VANDENBRINK ENGINEERING, INC.
304 West Wackerly, Suite 600, Midland, MI 48640
P: 989.837.3280
F: 989.837.3290

ISSUED FOR BIDS
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NO.	REVISIONS	BY	DATE
	ISSUED FOR BIDS	DRS	6-27-13

REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS

CITY OF MOUNT PLEASANT
ISABELLA COUNTY, MICHIGAN
MISSION STREET CONNECTOR ROAD

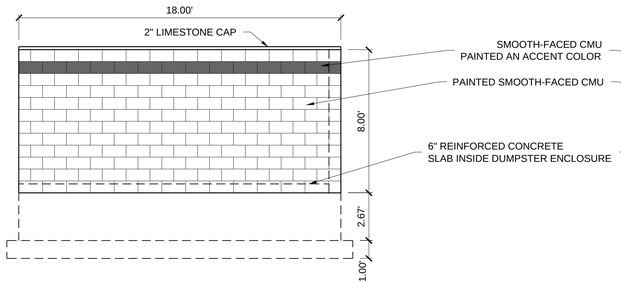
DETAILS

PROJECT MGR. GOB	DESIGN/ENG. DRS
DRAWN BY DRS	ISSUE DATE APR '13
CHECKED BY	DATE
CAD FILE 813710 C6.0 DET	
LOT douglass 062713	
DRAWING SCALE(S) NO SCALE	

PROJECT 813710

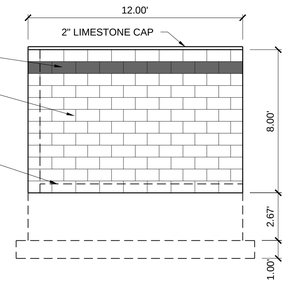
C6.0

SHEET NO.



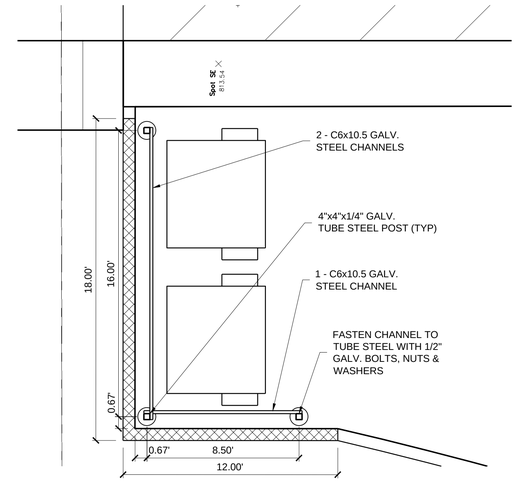
WEST ELEVATION

SCALE: 1"=4'-0"



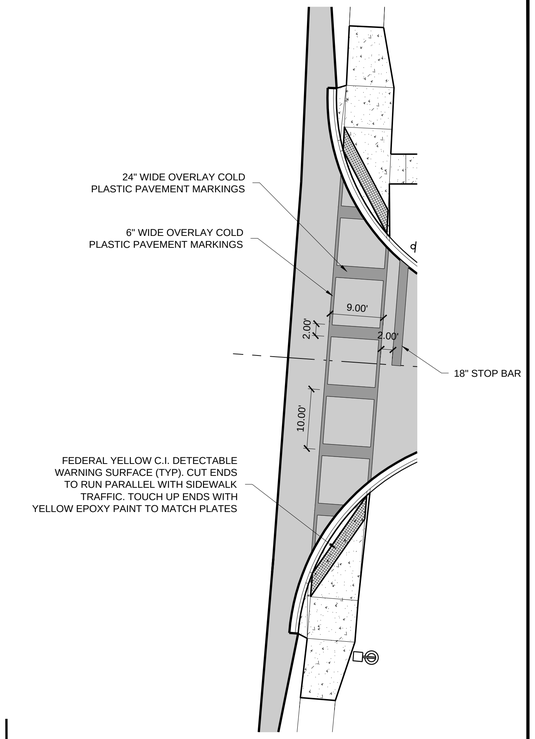
SOUTH ELEVATION

SCALE: 1"=4'-0"



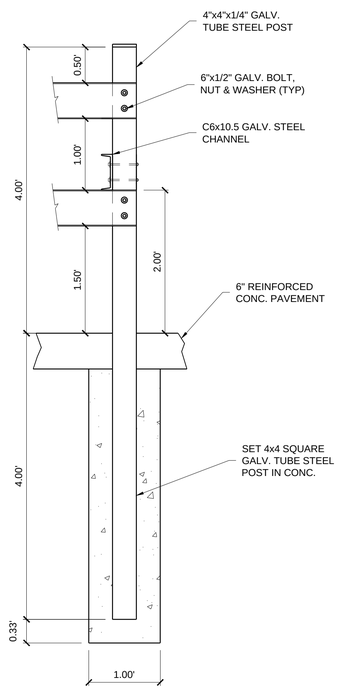
DUMPSTER ENCLOSURE PLAN

SCALE: 1"=4'-0"



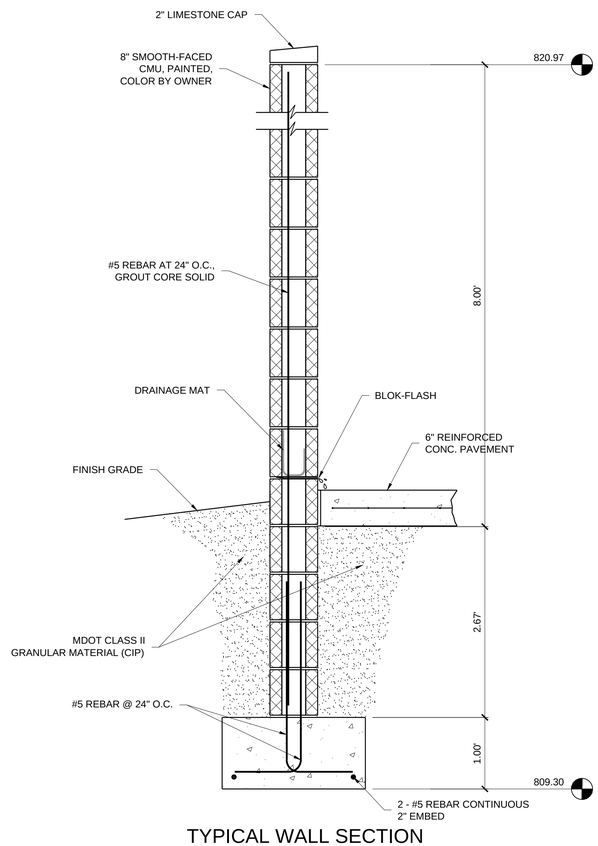
EAST CAMPUS DRIVE PEDESTRIAN CROSSING DETAIL

SCALE: 1"=12'-0"



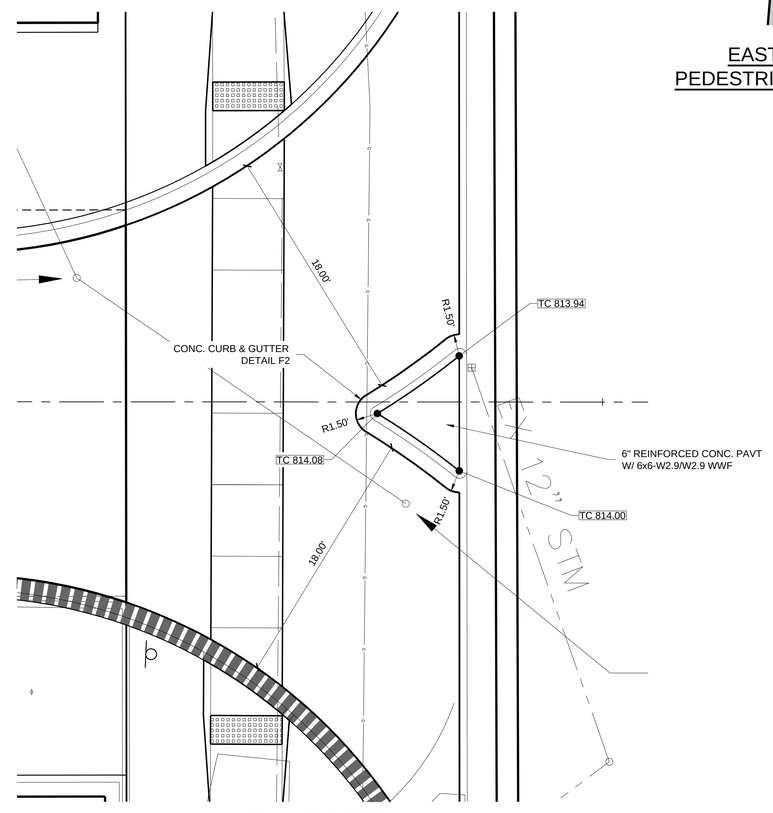
DUMPSTER GUARD RAIL DETAIL

SCALE: 1"=1'-0"



TYPICAL WALL SECTION

SCALE: 1"=1'-0"



ISLAND DETAIL

SCALE: 1"=5'-0"

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