



# CAPITAL AREA TRANSPORTATION AUTHORITY EAST LANSING MULTIMODAL TRANSIT CENTER

## BID PACKAGE 1: BUILDING DEMOLITION AND SITE CLEARING

1240 SOUTH HARRISON ROAD, EAST LANSING, MICHIGAN 48823  
BID DOCUMENTS: MAY 30, 2013

**OWNER ADDRESS:**

Capital Area Transportation Authority (CATA)  
4615 Tranter Street  
Lansing, MI 48910

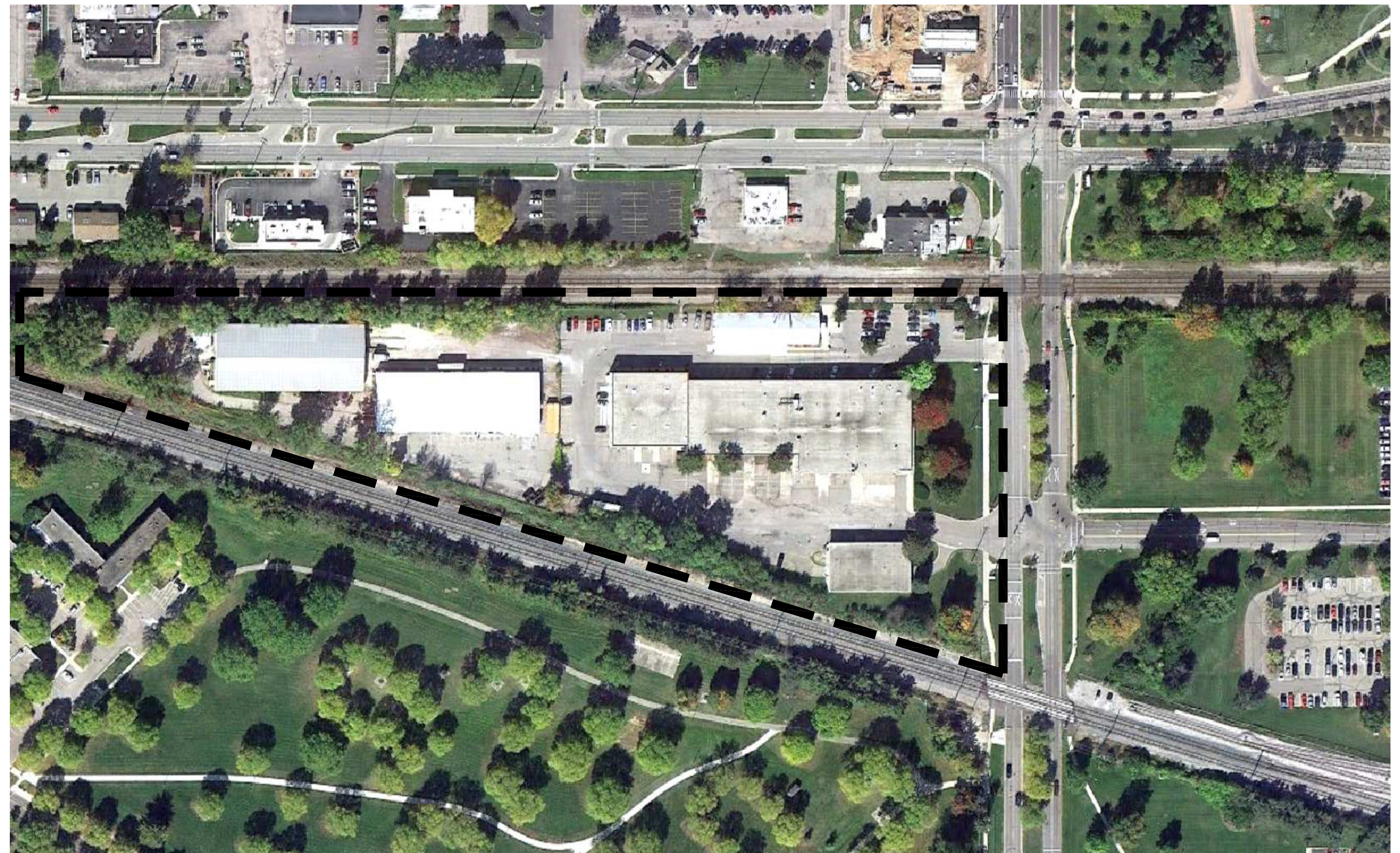
**DLZ PROJECT NO. 1341-6517-70**

**ARCHITECT/ENGINEER:**



DLZ Michigan, Inc.  
1425 Keystone Ave.  
Lansing, MI 48911  
Tel: (517) 393-6800  
Fax: (517) 272-7390

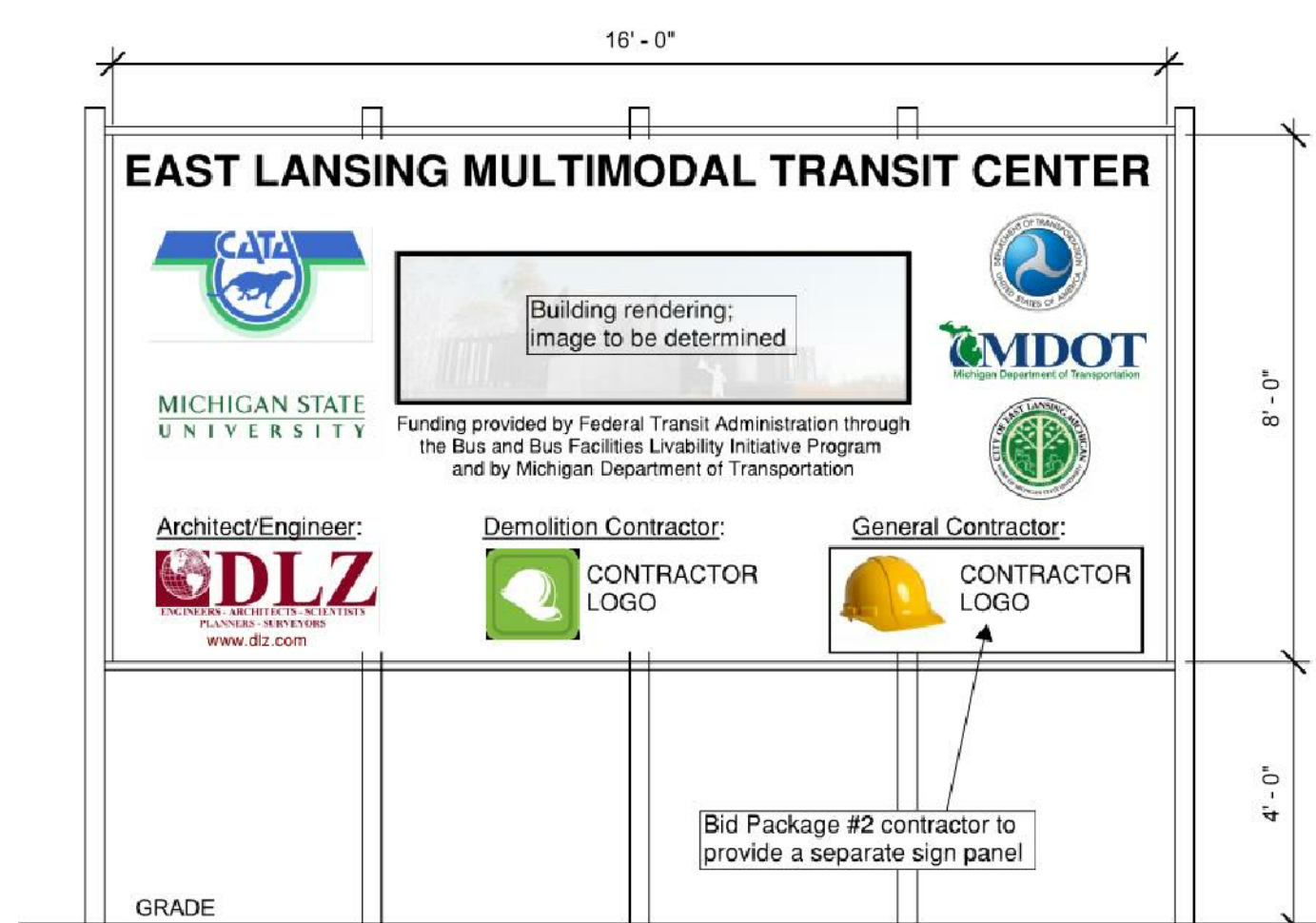
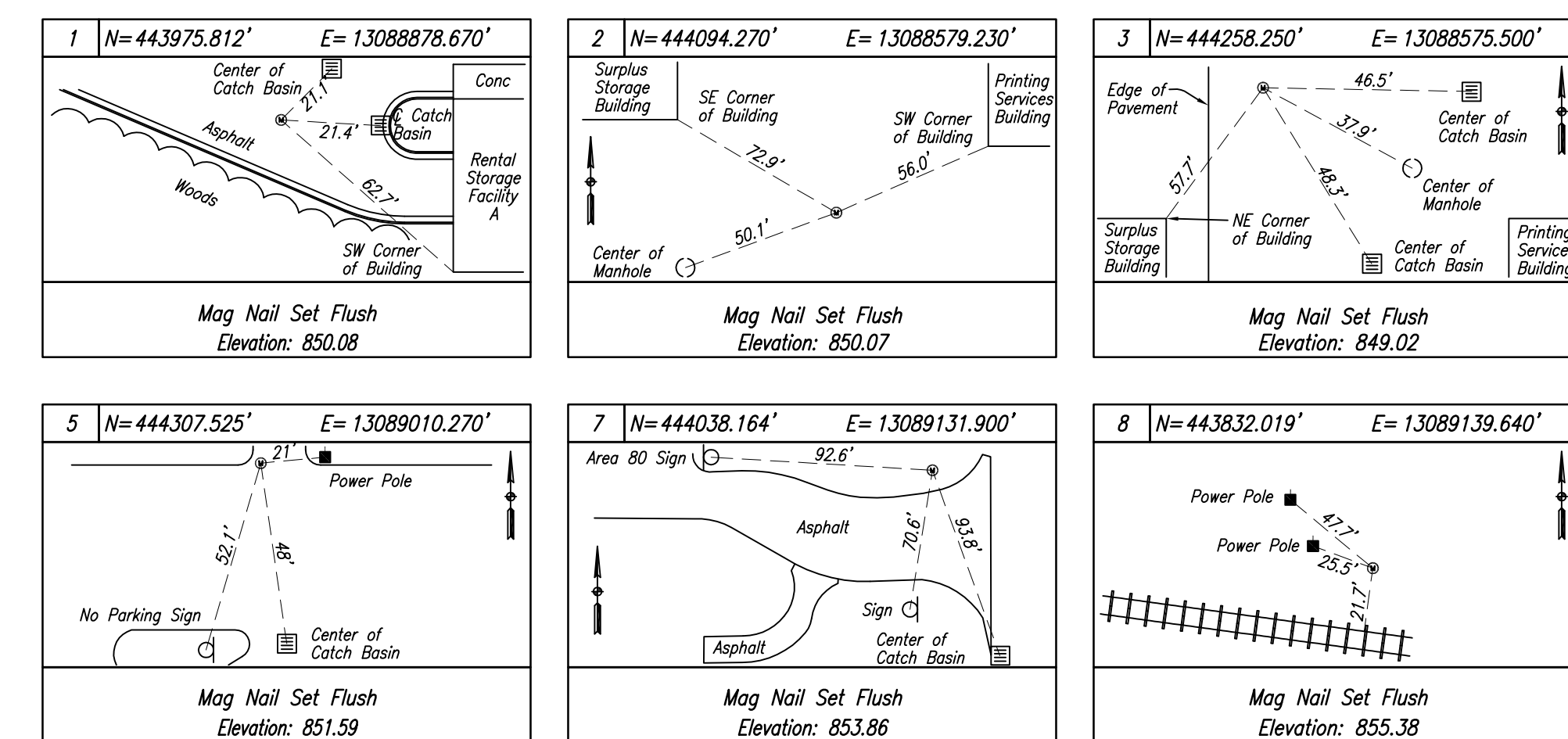
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## GENERAL DEMOLITION AND PROTECTION NOTES:

- THE PLANS ARE FOR THE CONTRACTOR'S GENERAL REFERENCE TO AID IN PREPARING PROPOSALS. THE PLANS ARE DIAGRAMMATIC IN NATURE, THE BACKGROUND HAS BEEN PREPARED FROM EXISTING DRAWINGS. THESE DRAWINGS ARE NOT TO BE CONSIDERED AN EXACT AND ALL-ENCOMPASSING REPRESENTATION OF THE ACTUAL EXISTING CONDITIONS. BIDDERS SHALL VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL. SUBMITTING A PROPOSAL IS EVIDENCE OF THE CONTRACTOR HAVING VISITED THE SITE AND BECOMING FAMILIAR WITH THE ACTUAL CONDITIONS TO BE ENCOUNTERED.
- THE UTILITY INFORMATION AND DESCRIPTIONS ARE BASED ON INFORMATION OBTAINED FROM HISTORICAL DRAWINGS AND SUPPLEMENTED BY FIELD OBSERVATIONS. THE INFORMATION DEPICTED ON THESE DOCUMENTS ARE ASSUMED TO BE CORRECT FOR THAT POINT IN TIME WHEN THE INFORMATION WAS DEVELOPED. THE OWNER OR THE ENGINEER CANNOT VERIFY THAT THOSE ITEMS SHOWN ON THESE PLANS HAVE BEEN ADDED TO, DELETED, OR MODIFIED FROM WHAT IS SHOWN. IT IS THE INTENT THAT ALL EXISTING IMPROVEMENTS NOT INDICATED TO REMAIN OR TO BE OTHERWISE PROTECTED, BE DEMOLISHED TO THE BASE OF THE DEMOLITION EXCAVATION LIMITS AND REMOVED FROM THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND ACCOUNT FOR ALL EXISTING IMPROVEMENTS TO BE REMOVED AND INCLUDE ALL SUCH ITEMS IN THEIR RESPECTIVE BASE AND/OR ALTERNATE BID(S).
- CLEARING AND CONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. ADJUSTMENTS TO THE LIMITS INCIDENTAL TO DEMOLITION ACTIVITIES MAY BE PERMITTED WITH APPROVAL OF THE OWNERS REPRESENTATIVE. IF DEMOLITION OCCURS OUTSIDE OF THE CLEARING AND CONSTRUCTION LIMITS, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF THE IMPACTED IMPROVEMENTS. CONTRACTOR SHALL FIELD MARK CLEARING AND CONSTRUCTION LIMITS AND VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING WORK OUTSIDE OF THE PROJECT BOUNDARY AS INDICATED ON THE PLANS.
- ALL DEMOLITION SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT MANUAL, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND REFERENCED STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES/COSTS AND PERMITTING ASSOCIATED WITH THE CONSTRUCTION AND COORDINATION WITH APPROPRIATE JURISDICTIONS REGARDING THIS WORK.
- THE CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING ABOVE GROUND CONDITIONS TO BE REMOVED, ALTERED, OR PROTECTED.
- THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN SUITABLE BARRIERS OUTSIDE THE LIMITS OF BASEMENTS, PITS AND OTHER EXCAVATIONS TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE DURING DEMOLITION AND FOR AREAS TO BE BACKFILLED.
- CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL BARRICADES, SIGNS, LIGHTS, ETC. IN ACCORDANCE WITH THE LATEST EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 6, AS NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THEIR OWN HORIZONTAL AND VERTICAL CONTROL POINTS, BENCHMARKS, ETC. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION STAKING AND FIELD LAYOUT. IT IS RECOMMENDED THAT (2) BENCHMARKS BE USED FOR VERIFICATION OF ALL CONSTRUCTION ELEVATIONS. SET ADDITIONAL BENCHMARKS, AS NEEDED, TO COMPLY WITH THIS REQUIREMENT.

## CONTROL POINT WITNESSES



- PROJECT SIGN MATERIALS:**  
A SIGN PANEL SHALL BE PROVIDED FOR BOTH SIDES OF THE SIGN. SIGN PANELS TO BE EXTERIOR GRADE PLYWOOD SMOOTHER SIDE FACING OUT. SUPPORTED BY TREATED 4"x4"x20" POSTS. (5) TOTAL THE 2"x4" MEMBERS TO HAVE 1/2" DEEP RABBIT CUT TO RECEIVE THE 3/4" EXTERIOR GRADE PLYWOOD. PROVIDE STIFFENERS BETWEEN THE FOUR SIGN PANELS. PAINT ALL SURFACE TWO COATS OF ALKYL ENAMEL EXTERIOR PAINT.
- Contractor shall furnish and install one (1) project sign. Location to be determined in the field. Project sign shall remain in place and in good condition for all bid packages associated with this project.
  - Contractor shall submit a shop drawing for Architect and Owner approval prior to fabrication. Colors and proportions of the Logos shall be approved by each company represented. JPG files of each logo shall be provided.
  - Project sign shall include a full color rendering of the project. Rendering graphics have not been developed yet, however shall be provided by DLZ prior to fabrication of the sign.

## TEMPORARY PROJECT IDENTIFICATION SIGN

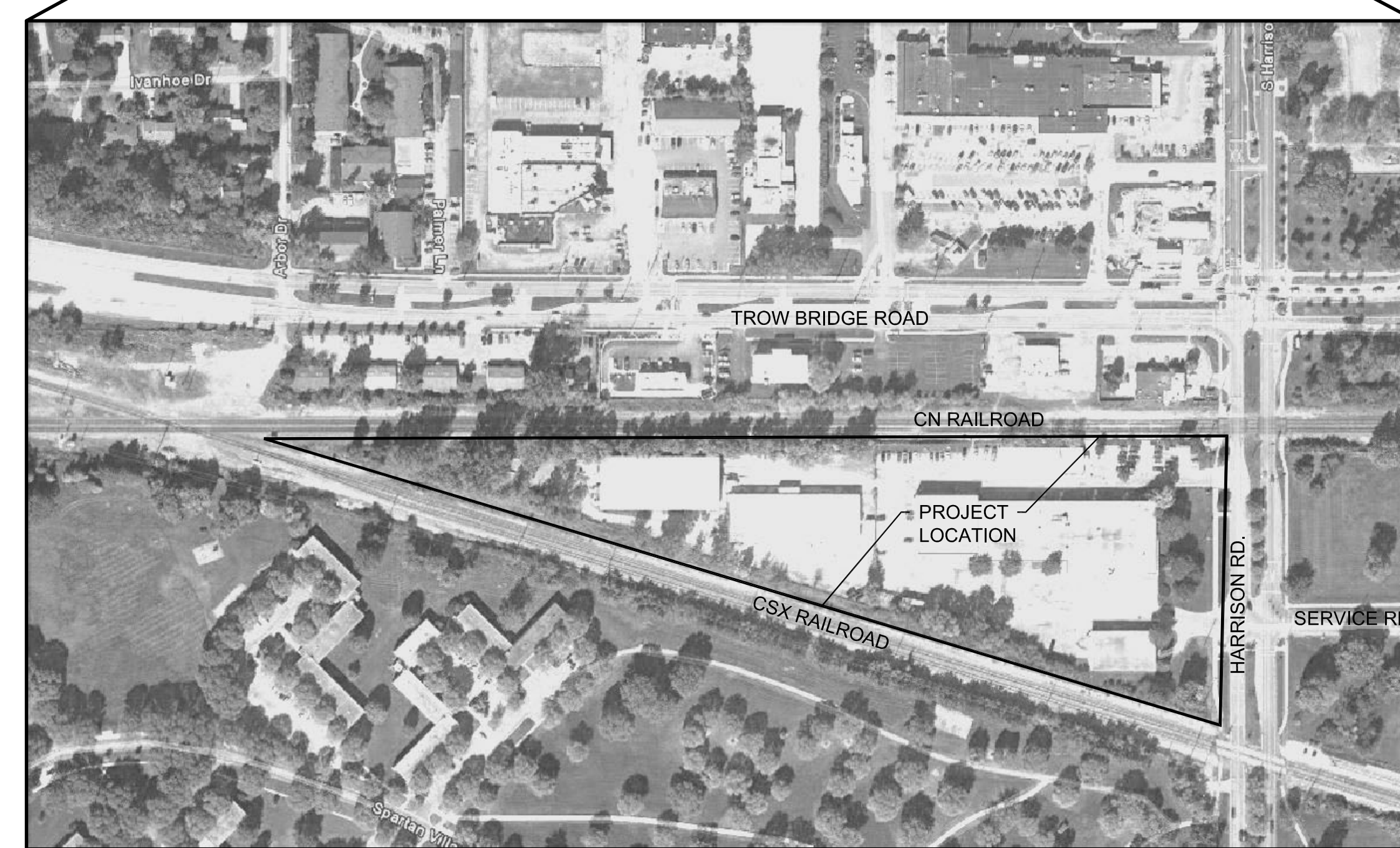
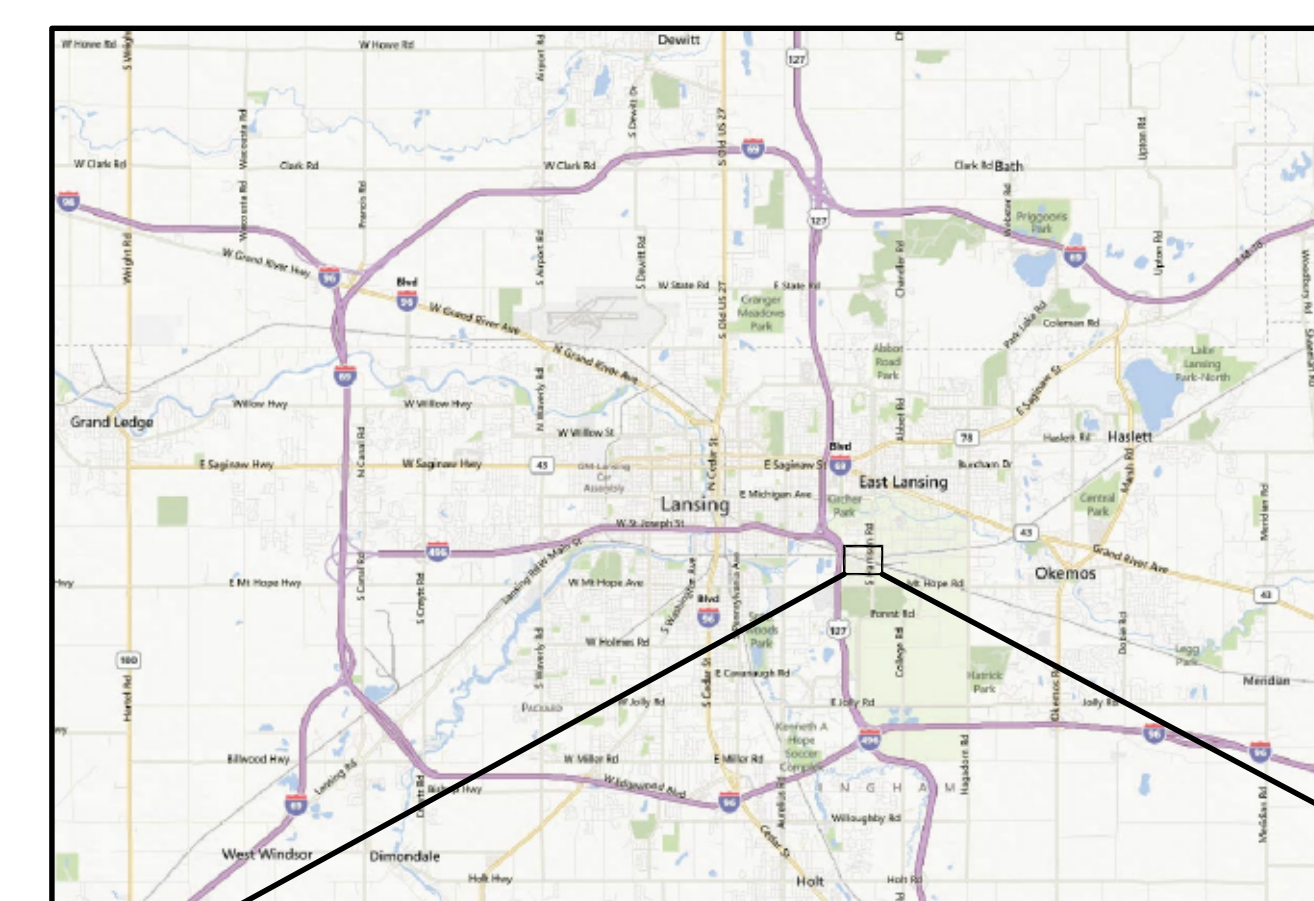
SCALE: N.T.S. 1 GN1.0

## UTILITY DEMOLITION NOTES:

- PRIOR TO BUILDING DEMOLITION OR ANY OTHER LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL COORDINATE ABANDONMENT OF SERVICE WITH ALL UTILITY OWNERS. ALL UTILITIES SHALL BE CUT AND CAPPED AT THE PROPERTY LINE OR AS DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITIES AND COORDINATE ALL UTILITY SERVICES. CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH UTILITY SERVICES' ABANDONMENT IN THE COST OF THE BID.
- ALL CONTRACTOR UTILITY WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER AND UTILITY COMPANIES.
- CONTRACTOR SHALL BE REQUIRED TO PROTECT THE UTILITIES INDICATED TO REMAIN THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE ALL DEMOLITION/EXCAVATION WORK TASKS WITHIN THE VICINITY OF THE UTILITIES TO BE PROTECTED WITH SAID UTILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PROTECTIVE MEASURES REQUIRED WHEN WORKING AROUND UTILITIES TO BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY REPAIRS TO SAID UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS.
- CONTRACTOR SHALL CONTACT MISS DIG AT "811" OR (800) 482-7171 AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION TO CONFIRM THE LOCATIONS OF EXISTING BURIED UTILITIES.

| UTILITY CONTACTS   |   |                                    |
|--|---|------------------------------------|
| PUBLIC UTILITY   | OWNER   | CONTACT                            |
| WATER (E)<br>SEWER (E)<br>STORM  | CITY OF EAST LANSING<br>LANSING ENGINEERING OFFICE<br>410 ABBOTT RD.<br>EAST LANSING, MI 48823  | ROBERT SCHEURMAN<br>(517) 337-1731 |
| WATER (N)  | MICHIGAN STATE UNIVERSITY<br>ENGINEERING AND ARCHITECTURAL SERVICES<br>PHYSICAL PLANT BUILDING<br>1147 CHESTNUT RD., ROOM 101<br>EAST LANSING, MI 48824 | SCOTT GARDNER<br>(517) 355-3372    |
| TELECOM (N)  | AT&T<br>LANSING ENGINEERING OFFICE<br>337 N. ABBOTT RD., ROOM 2<br>EAST LANSING, MI 48823   | STEVE LUNDBERG<br>(517) 974-6448   |
| ELECTRIC (N)   | CONSUMERS ENERGY<br>LANSING SERVICE CENTER<br>530 W. WILLOW ST.<br>P.O. BOX 30162<br>LANSING, MI 48909  | RYAN ANDERSON<br>(517) 374-2298    |
| ELECTRIC (E)   | MICHIGAN STATE UNIVERSITY<br>ENGINEERING AND ARCHITECTURAL SERVICES<br>PHYSICAL PLANT BUILDING<br>1147 CHESTNUT RD., ROOM 101<br>EAST LANSING, MI 48824 | VAN FRAZEE<br>(517) 353-9578       |
| GAS (E)  | CONSUMERS ENERGY<br>LANSING SERVICE CENTER<br>530 W. WILLOW ST.<br>P.O. BOX 30162<br>LANSING, MI 48909  | RYAN ANDERSON<br>(517) 374-2298    |
| WATER<br>SEWER<br>STORM<br>TELECOM<br>FIBER<br>ELECTRIC<br>STREET LIGHTS | MICHIGAN STATE UNIVERSITY<br>UTILITY STAKING CREW   | (517) 449-9463                     |

NOTES:  
(E) EXISTING SERVICE  
(N) NEW SERVICE



## PROJECT LOCATION MAP

SCALE: N.T.S. 2 GN1.0

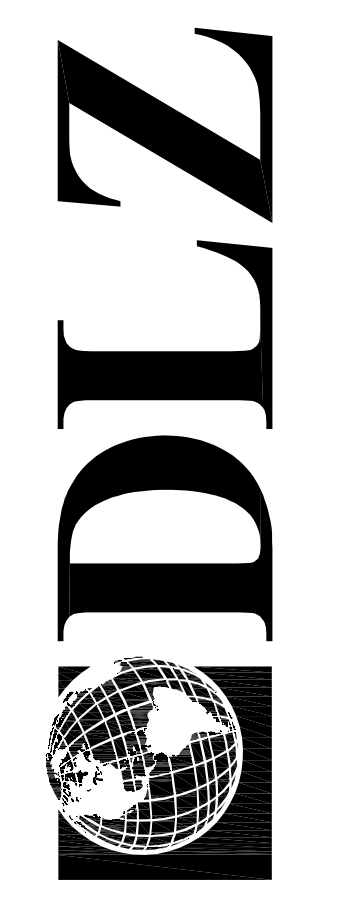
3 WORKING DAYS  
BEFORE YOU DIG  
CALL MISS DIG.  
1-800-482-7171  
(TOLL FREE)

FOR LOCATIONS OF UNDERGROUND UTILITIES  
& IF WORKING NEAR OVERHEAD WIRES

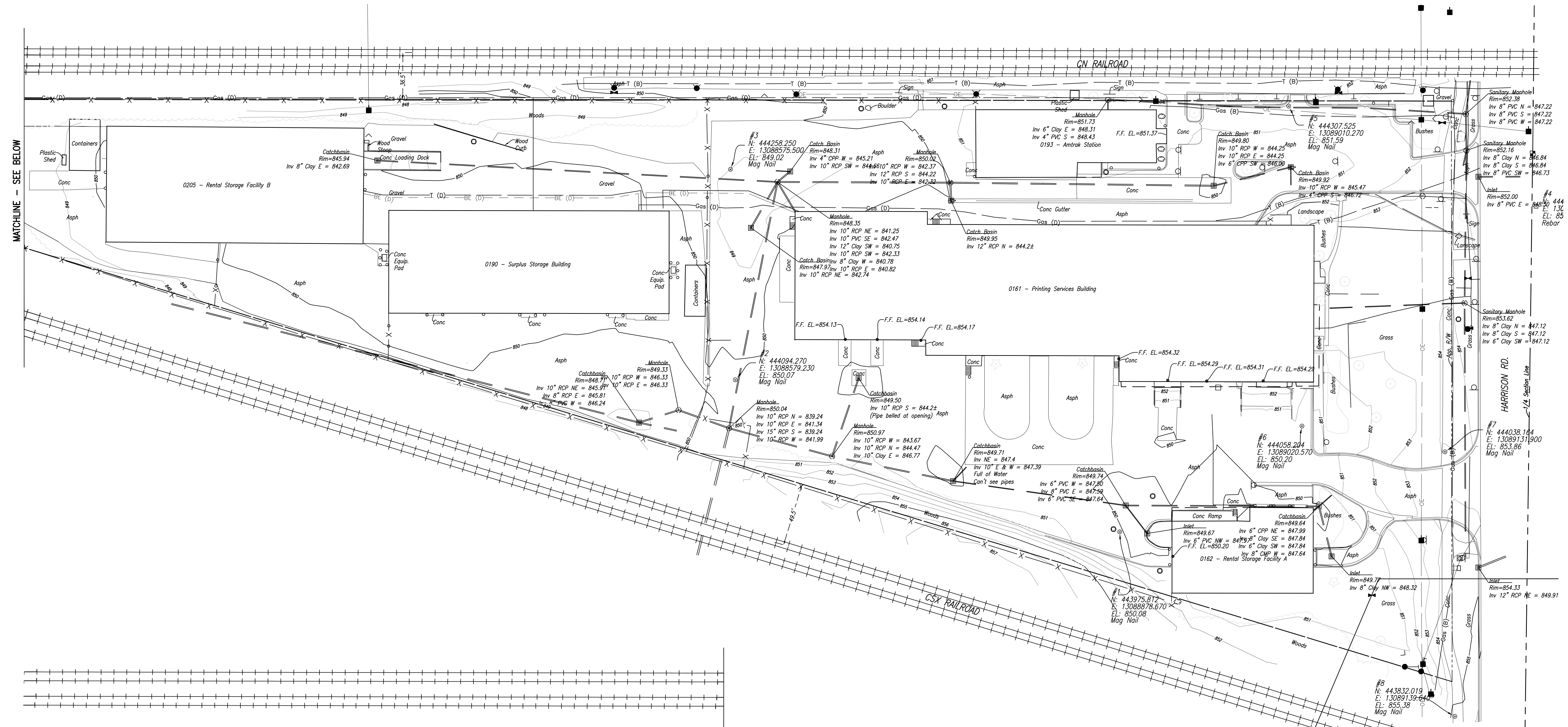
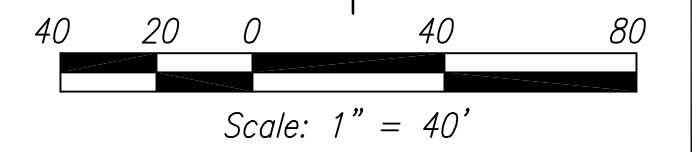
DRAWN: JNU CHK'D: SJW  
DESIGNED: SJW  
APPROVED: MKN  
DATE: MAY 30, 2013  
PROJECT NUMBER  
1341-6517-70

MICHIGAN  
CAPITAL AREA TRANSPORTATION AUTHORITY  
EAST LANSING MULTIMODAL TRANSIT CENTER  
GENERAL  
PROJECT LOCATION MAP AND GENERAL NOTES

EAST LANSING  
SHEET 2  
OF 12  
DRAWING NUMBER  
GN1.0



# PLAT OF SURVEY



MATCHLINE - SEE BELOW

MATCHLINE - SEE ABOVE

## BENCHMARKS

BM #12 - ABRAMS COPPER MONUMENT, FOUND 6" BELOW GRADE, 20'± SOUTH OF THE CENTERLINE OF THE SOUTH TRACK OF THE CSX RAILROAD, 6' NORTHEAST OF A SIGN "DO NOT STOP ON TRACKS", AND 4.5' WEST OF THE WEST BACK OF CURB OF THE HARRISON AVE. MEDIAN, AS SHOWN ON THE PLANS FOR HARRISON AVENUE, MT. HOPE ROAD TO TROWBRIDGE ROAD, DATED 9/20/2012 AND ON FILE WITH THE DEPARTMENT OF ENGINEERING OF THE CITY OF EAST LANSING. ELEV. = 855.46

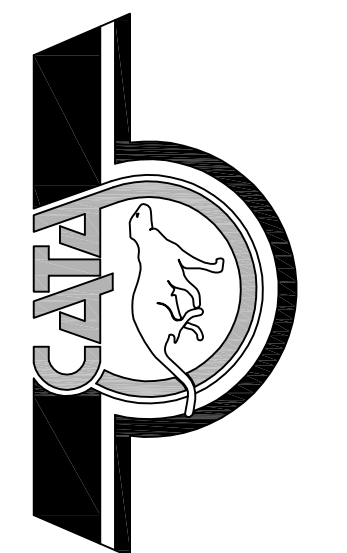
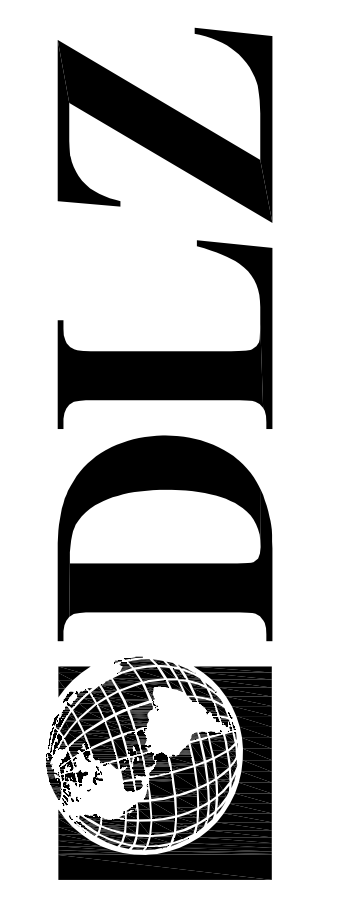
## SURVEYOR'S NOTES

- TOPOGRAPHIC SURVEY WAS PERFORMED BY DLZ. EXISTING TOPOGRAPHIC SURVEY IS AVAILABLE FOR CONTRACTOR'S REVIEW UPON REQUEST.

## LEGEND

- RIGHT OF WAY
- OE --- EXISTING OVERHEAD ELECTRIC
- EXISTING SEWER
- EXISTING WATER
- T (D) EXISTING TELECOM ABANDONED
- BE (D) EXISTING BURIED ELECTRIC ABANDONED
- GAS (D) EXISTING GAS ABANDONED
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING MONITORING WELL
- X --- EXISTING FENCE
- EXISTING RAILROAD TRACKS
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREE

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THIS SHEET PROVIDED FOR INFORMATION ONLY

DRAWN: SAJ CHK'D: SAJ  
DESIGNED: RHK  
APPROVED: --  
DATE: MAY 30, 2013  
PROJECT NUMBER  
1341-6517-70

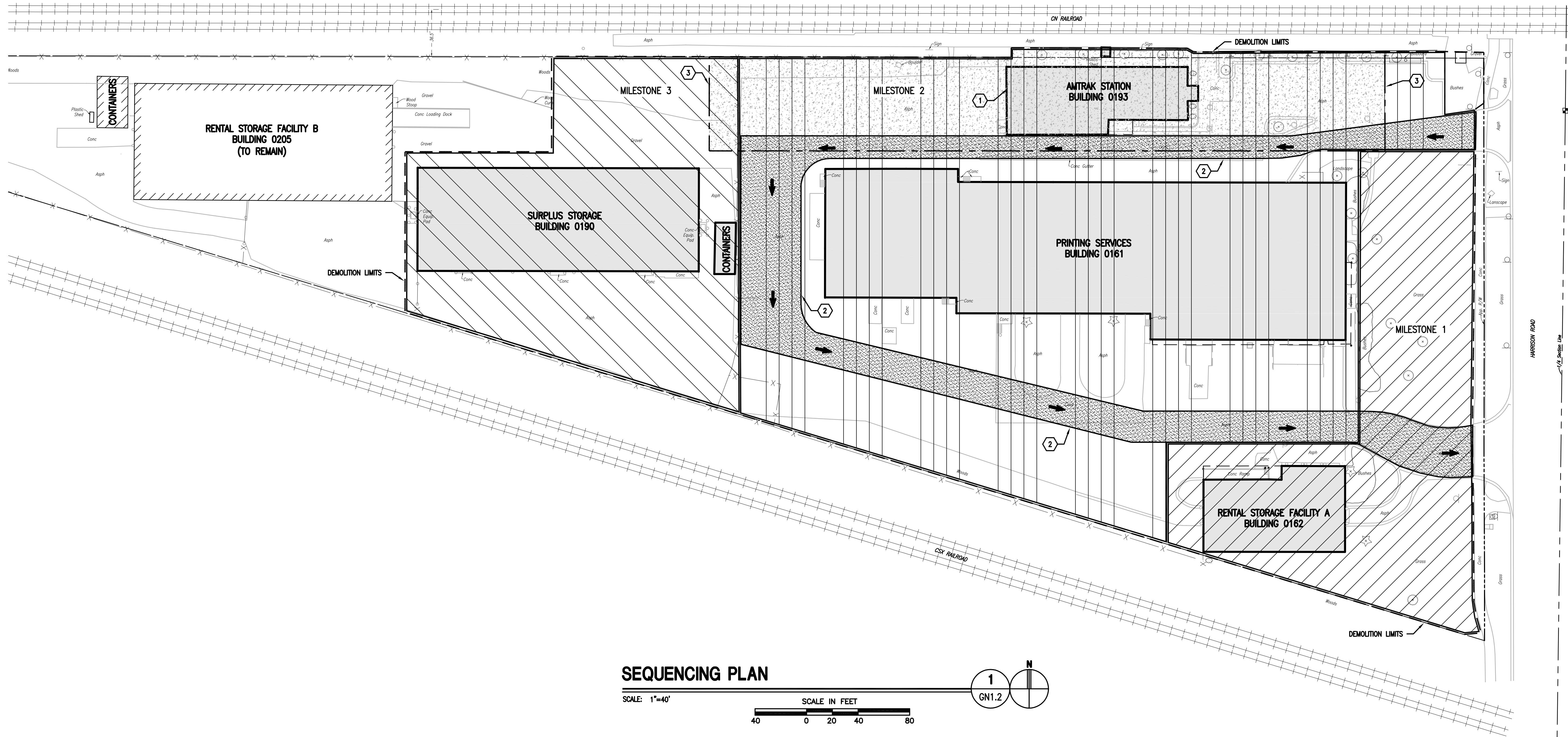
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CAPITAL AREA TRANSPORTATION AUTHORITY  
EAST LANSING MULTIMODAL TRANSIT CENTER  
GENERAL EXISTING CONDITIONS

SHEET 3 OF 12  
DRAWING NUMBER  
GN1.1

3 WORKING DAYS  
**BEFORE YOU DIG  
CALL MISS DIG.  
1-800-482-7171**  
(TOLL FREE)

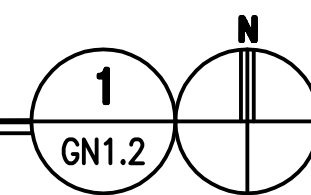
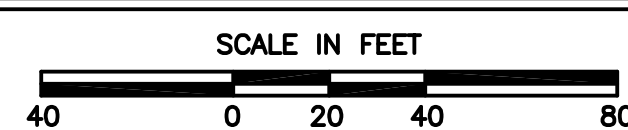
FOR LOCATIONS OF UNDERGROUND UTILITIES  
& IF WORKING NEAR OVERHEAD WIRES

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### SEQUENCING PLAN

SCALE: 1"=40'



### SEQUENCING NOTES

- 1 **EXISTING AMTRAK BUILDING, PARKING LOT, AND SERVICES**  
 CONTRACTOR SHALL PROTECT AND MAINTAIN ACCESS TO THE EXISTING AMTRAK STATION (BUILDING 0193) UNTIL ALL WORK WITHIN MILESTONE AREA 1 IS COMPLETE AND THE TEMPORARY AMTRAK STATION BUILDING (TO BE PROVIDED BY OTHERS) IS OPERATIONAL AND AUTHORIZATION IS GIVEN BY THE OWNER. THE TEMPORARY AMTRAK STATION WILL BE OPERATIONAL AND AUTHORIZATION TO PROCEED ON DEMOLITION OF THE EXISTING AMTRAK STATION WILL BE GIVEN NO LATER THAN 7 WORKING DAYS FROM THE DATE ALL WORK WITHIN MILESTONE AREA 1 IS COMPLETE AND ACCEPTED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AN ALTERNATE WORK SCHEDULE FOR ITS PERSONNEL AND RESOURCES DURING THE PERIOD THAT MILESTONE AREA 1 IS COMPLETED AND AUTHORIZATION TO PROCEED ON THE DEMOLITION OF THE EXISTING AMTRAK STATION IS GIVEN.
- 2 **TEMPORARY BUS ROUTE**  
 CONTRACTOR SHALL PROTECT THE TEMPORARY BUS ROUTE UNTIL THE TEMPORARY AMTRAK STATION IS OPERATIONAL AND AUTHORIZATION IS GIVEN BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE SO THAT THE TEMPORARY BUS ROUTE IS UNOBSTRUCTED AND CLEAR ACCESS IS MAINTAINED. THE BUS ROUTE SCHEDULE IS AVAILABLE UPON REQUEST.
- 3 **ENVIRONMENTAL SOIL REMEDIATION**  
 UPON COMPLETION OF ALL WORK WITHIN MILESTONE AREA 2, PAVEMENT REMOVAL, SUBSURFACE SOIL EXCAVATION AND DISPOSAL WILL BE PERFORMED BY A DESIGNATED MICHIGAN STATE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SITE ACCESS WITH MICHIGAN STATE DESIGNATED

### MILESTONES

- CONTRACTOR SHALL COMPLETE ALL WORK WITHIN MILESTONE AREA 1 INCLUDING BUT NOT LIMITED TO ASBESTOS ABATEMENT, BUILDING DEMOLITION, EXCAVATION, WASTE DISPOSAL, SITE CLEARING, PAVEMENT REMOVAL, UTILITY ABANDONMENT, BACKFILL, COMPACTION, GRADING, AND CONSTRUCTION OF PROPOSED SITE IMPROVEMENTS AS SHOWN ON SHEET C4.0 WITHIN 29 CALENDAR DAYS FROM NOTICE TO PROCEED (ANTICIPATED NOTICE TO PROCEED ISSUED ON JULY 18, 2013). ALL WORK WITHIN THIS AREA SHALL BE COMPLETED BY AUGUST 16, 2013.**
- MILESTONE AREA 2**  
 CONTRACTOR SHALL COMPLETE ALL WORK WITHIN MILESTONE AREA 2 INCLUDING BUT NOT LIMITED TO ASBESTOS ABATEMENT, BUILDING DEMOLITION, EXCAVATION, WASTE DISPOSAL, SITE CLEARING, PAVEMENT REMOVAL, UTILITY ABANDONMENT, BACKFILL, GRADING, AND COMPACTION WITHIN 57 CALENDAR DAYS FROM NOTICE TO PROCEED (ANTICIPATED NOTICE TO PROCEED ISSUED ON JULY 18, 2013). CONTRACTOR SHALL REFER TO SEQUENCING NOTES FOR TEMPORARY BUS ROUTE AND AMTRAK STATION (BLDG. 0193).
- MILESTONE AREA 3**  
 CONTRACTOR SHALL COMPLETE ALL WORK WITHIN MILESTONE AREA 3 INCLUDING BUT NOT LIMITED TO ASBESTOS ABATEMENT, BUILDING DEMOLITION, EXCAVATION, WASTE DISPOSAL, SITE CLEARING, PAVEMENT REMOVAL, UTILITY ABANDONMENT, BACKFILL, COMPACTION, FINAL GRADING, AND SITE RESTORATION WITHIN 71 CALENDAR DAYS FROM NOTICE TO PROCEED (ANTICIPATED NOTICE TO PROCEED ISSUED ON JULY 18, 2013).

### LEGEND

- DEMOLITION LIMITS
- - - - - APPROX. SOIL EXCAVATION LIMITS (BY OTHERS)
- - - - - RIGHT OF WAY
- - - - - EXISTING FENCE
- - - - - EXISTING RAILROAD TRACKS
- - - - - EXISTING SIGN
- - - - - EXISTING UTILITY POLE
- ▨ MILESTONE AREA 1
- ▨ MILESTONE AREA 2
- ▨ MILESTONE AREA 3
- ▨ MILESTONE 1 TEMPORARY BUS ROUTE
- ▨ EXISTING PAVEMENT TO REMAIN

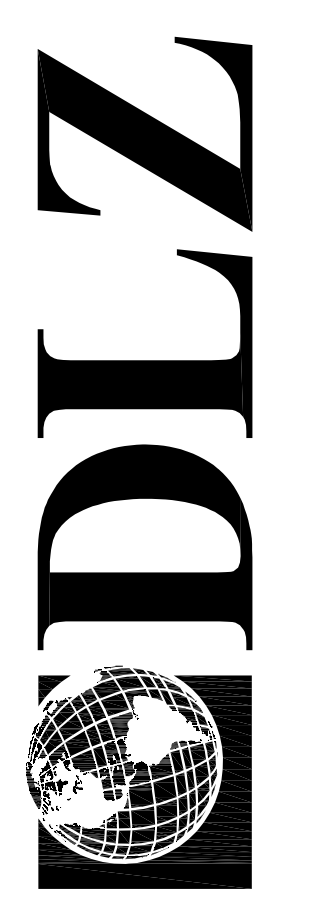
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 (TOLL FREE)

FOR LOCATIONS OF UNDERGROUND UTILITIES & IF WORKING NEAR OVERHEAD WIRES

DRAWN: JNJ  
 DESIGNED: SJW  
 APPROVED: MKN  
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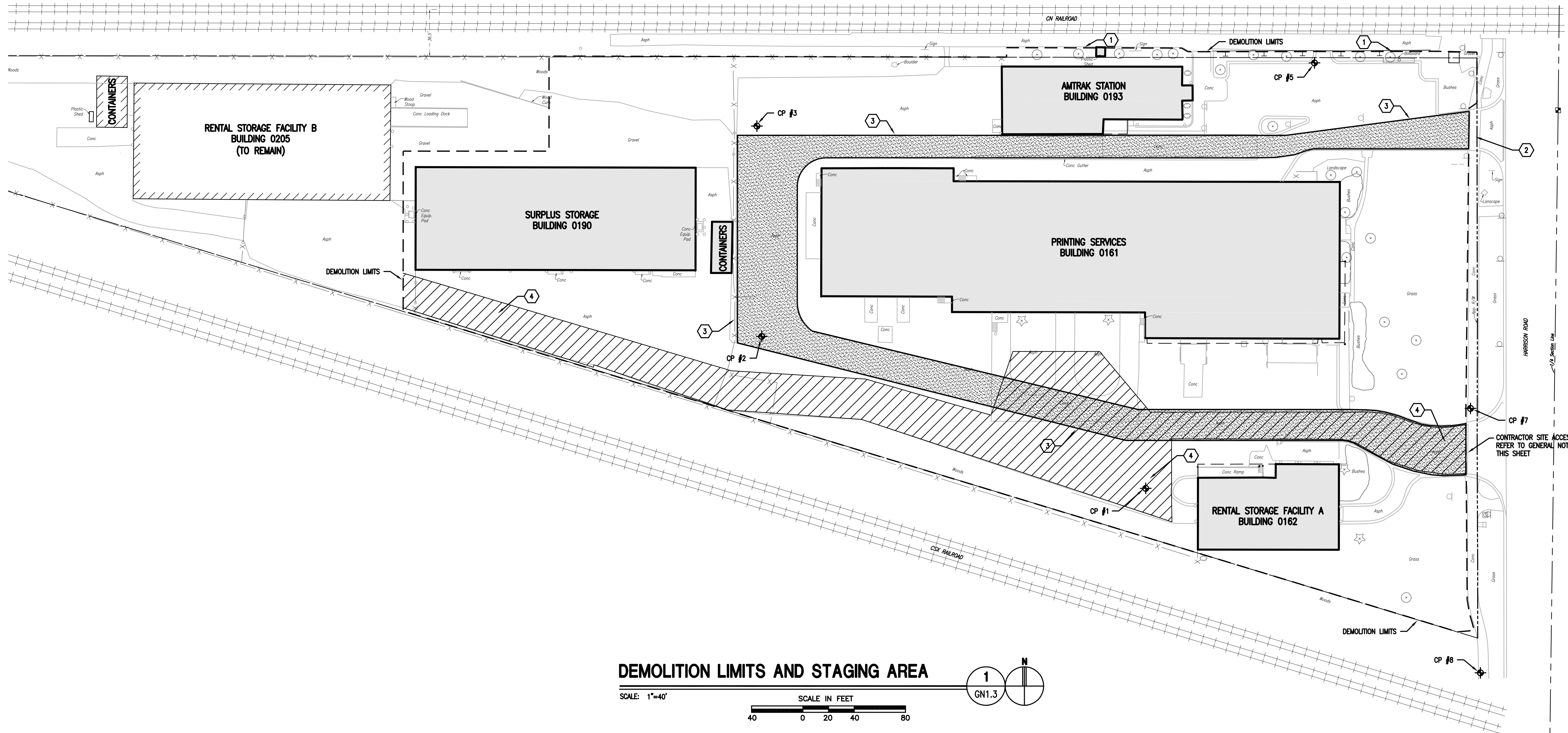
MICHIGAN  
 CAPITAL AREA TRANSPORTATION AUTHORITY  
 EAST LANSING MULTIMODAL TRANSIT CENTER  
 GENERAL  
 SEQUENCING PLAN

SHEET 4  
 OF 12  
 DRAWING NUMBER  
**GN1.2**



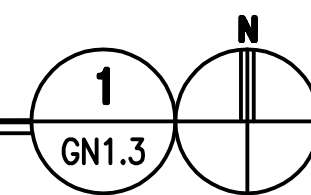
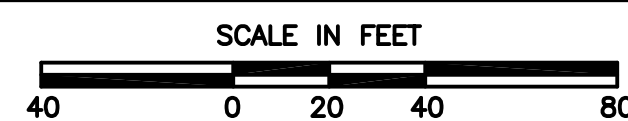
DLZ MICHIGAN, INC.

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**DEMOLITION LIMITS AND STAGING AREA**

SCALE: 1"=40'



**GENERAL NOTES**

- CONTRACTOR SHALL SECURE THE PERIMETER OF THE DEMOLITION ACTIVITIES TO PREVENT UNAUTHORIZED ENTRANCE. THE CONTRACTOR SHALL INSTALL TEMPORARY 6' (MINIMUM) MOVABLE CHAIN-LINK FENCE PANELS (ON PEDESTAL STANDS) AROUND THE BUILDING OR AREA WHERE DEMOLITION ACTIVITIES ARE OCCURRING. CONTRACTOR SHALL REMOVE AND REPLACE CONSTRUCTION FENCING AS NECESSARY TO ALLOW FOR WORK TO BE COMPLETED.
- ALL CONSTRUCTION RELATED TRAFFIC SHALL BE REQUIRED TO USE THE SOUTH ENTRANCE TO THE SITE AS NOTED ON THIS SHEET AS THE INGRESS/EGRESS POINT TO THE PROJECT SITE.
- CONTRACTOR IS RESPONSIBLE FOR ALL COSTS REQUIRED FOR MAINTENANCE AND REPAIR OF ALL EXISTING UTILITIES, PAVEMENTS, STRUCTURES, OR OTHER ITEMS LOCATED OUTSIDE THE DEMOLITION LIMITS OR LABELED/IDENTIFIED TO BE PROTECTED.
- CONTRACTOR SHALL INSTALL PROJECT SIGN AS SHOWN ON SHEET GN1.0. COORDINATE EXACT LOCATION WITH THE OWNER.
- CONSTRUCTION ACTIVITIES SHALL BE PHASED TO MAINTAIN PEDESTRIAN USE OF THE EXISTING HARRISON ROAD SIDEWALK.
- CONTRACTOR SHALL NOT INSTALL AGGREGATE MUD MAT OVER EXISTING CONCRETE SIDEWALK IF SIDEWALK IS OPEN TO PUBLIC PEDESTRIAN USE.
- CONTRACTOR SHALL INSTALL STABILIZED MUD MAT AS REQUIRED, REFER TO SHEET C6.0 FOR DETAIL. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE MUD MAT WITH THE OVERALL SEQUENCING REQUIREMENTS.

**KEY NOTES**

- DEMOLITION LIMITS ARE ALONG THE SOUTH EDGE OF THE ASPHALT PAVED AREA AND GUARDRAIL.
- CONTRACTOR SHALL NOT BE PERMITTED TO UTILIZE THE NORTH ENTRANCE TO THE SITE.
- CONTRACTOR SHALL MAINTAIN TEMPORARY BUS ROUTE AS SHOWN ON SHEET GN1.2 UNTIL MILESTONE 1 IS COMPLETED AND ACCEPTED BY OWNER.
- CONTRACTOR SHALL PROVIDE MSU ACCESS TO THE RENTAL STORAGE FACILITY B BUILDING THROUGHOUT THE DURATION OF THE PROJECT.

**LEGEND**

- DEMOLITION LIMITS
- RIGHT OF WAY
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING FENCE
- EXISTING RAILROAD TRACKS
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREE
- MILESTONE 1 TEMPORARY BUS ROUTE
- MSU ACCESS ROUTE

3 WORKING DAYS  
**BEFORE YOU DIG  
 CALL MISS DIG.**  
 1-800-482-7171  
 (TOLL FREE)

FOR LOCATIONS OF UNDERGROUND UTILITIES  
 & IF WORKING NEAR OVERHEAD WIRES

SHEET 5 OF 12  
 DRAWING NUMBER  
**GN1.3**

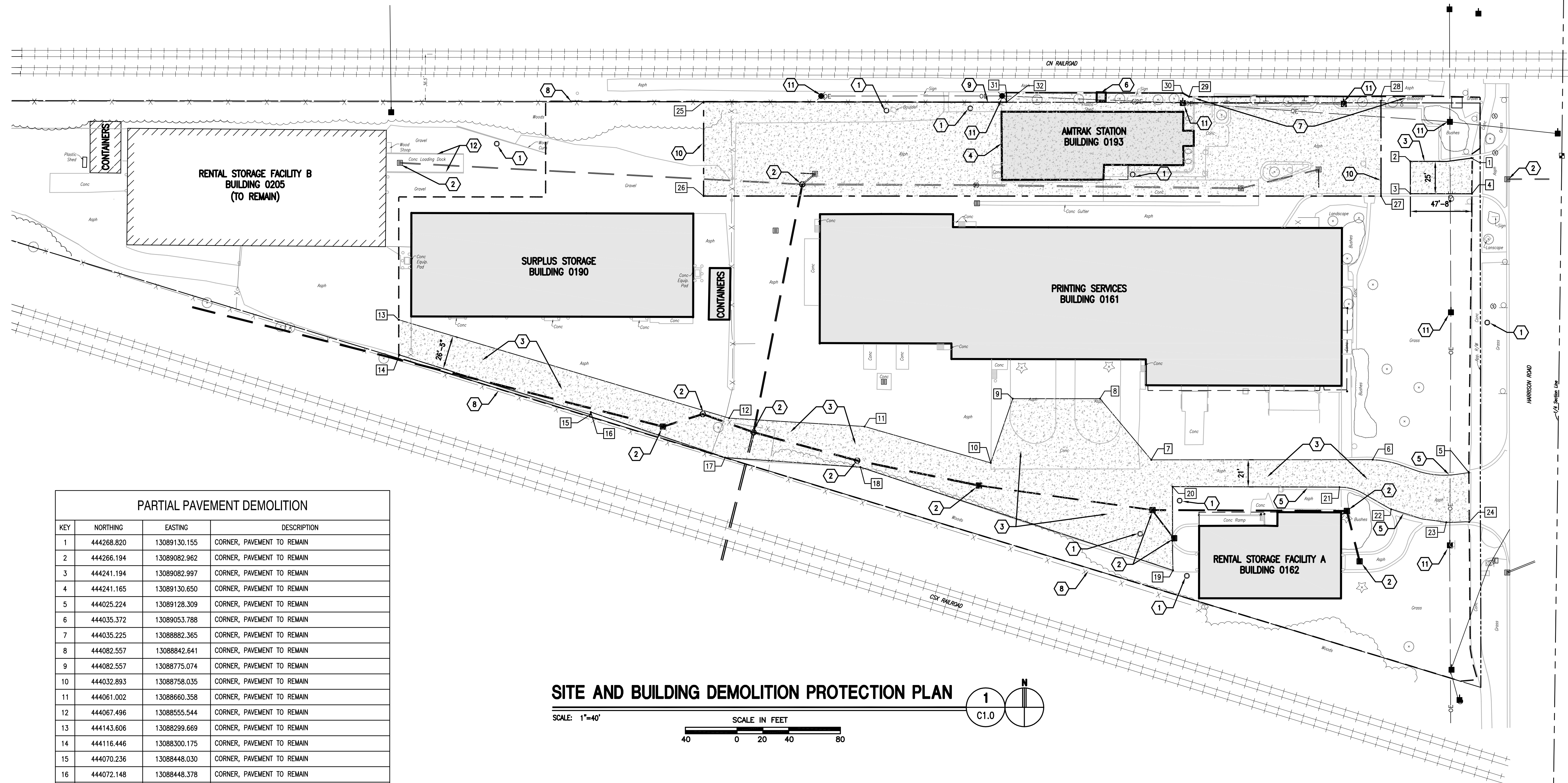
EAST LANSING  
 CAPITAL AREA TRANSPORTATION AUTHORITY  
 EAST LANSING MULTIMODAL TRANSIT CENTER

MICHIGAN  
 DRAWN: JNJ  
 DESIGNED: SJW  
 APPROVED: MKN  
 DATE: MAY 30, 2013  
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GENERAL  
 DEMOLITION LIMITS AND STAGING AREA

DLZ MICHIGAN, INC.

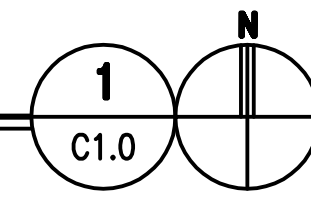
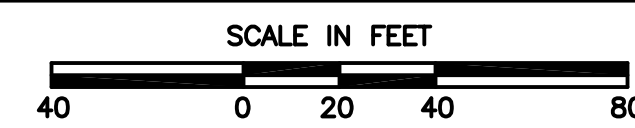
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| PARTIAL PAVEMENT DEMOLITION |            |              |                            |
|-----------------------------|------------|--------------|----------------------------|
| KEY                         | NORTHING   | EASTING      | DESCRIPTION                |
| 1                           | 444268.820 | 13089130.155 | CORNER, PAVEMENT TO REMAIN |
| 2                           | 444266.194 | 13089082.962 | CORNER, PAVEMENT TO REMAIN |
| 3                           | 444241.194 | 13089082.997 | CORNER, PAVEMENT TO REMAIN |
| 4                           | 444241.165 | 13089130.650 | CORNER, PAVEMENT TO REMAIN |
| 5                           | 444025.224 | 13089128.309 | CORNER, PAVEMENT TO REMAIN |
| 6                           | 444035.372 | 13089053.788 | CORNER, PAVEMENT TO REMAIN |
| 7                           | 444035.225 | 13088882.365 | CORNER, PAVEMENT TO REMAIN |
| 8                           | 444082.557 | 13088842.641 | CORNER, PAVEMENT TO REMAIN |
| 9                           | 444082.557 | 13088775.074 | CORNER, PAVEMENT TO REMAIN |
| 10                          | 444032.893 | 13088758.035 | CORNER, PAVEMENT TO REMAIN |
| 11                          | 444061.002 | 13088660.358 | CORNER, PAVEMENT TO REMAIN |
| 12                          | 444067.496 | 13088555.544 | CORNER, PAVEMENT TO REMAIN |
| 13                          | 444143.606 | 13088299.669 | CORNER, PAVEMENT TO REMAIN |
| 14                          | 444116.446 | 13088300.175 | CORNER, PAVEMENT TO REMAIN |
| 15                          | 444070.236 | 13088448.030 | CORNER, PAVEMENT TO REMAIN |
| 16                          | 444072.148 | 13088448.378 | CORNER, PAVEMENT TO REMAIN |
| 17                          | 444037.016 | 13088552.342 | CORNER, PAVEMENT TO REMAIN |
| 18                          | 444029.567 | 13088657.151 | CORNER, PAVEMENT TO REMAIN |
| 19                          | 443949.709 | 13088899.152 | CORNER, PAVEMENT TO REMAIN |
| 20                          | 444014.503 | 13088898.807 | CORNER, PAVEMENT TO REMAIN |
| 21                          | 444014.082 | 13089028.060 | CORNER, PAVEMENT TO REMAIN |
| 22                          | 443996.948 | 13089068.100 | CORNER, PAVEMENT TO REMAIN |
| 23                          | 443986.905 | 13089110.770 | CORNER, PAVEMENT TO REMAIN |
| 24                          | 443987.085 | 13089128.453 | CORNER, PAVEMENT TO REMAIN |
| 25                          | 444312.380 | 13088535.755 | CORNER, PAVEMENT TO REMAIN |
| 26                          | 444239.364 | 13088535.755 | CORNER, PAVEMENT TO REMAIN |
| 27                          | 444239.364 | 13089060.261 | CORNER, PAVEMENT TO REMAIN |
| 28                          | 444316.441 | 13089060.152 | CORNER, PAVEMENT TO REMAIN |
| 29                          | 444316.230 | 13088911.637 | CORNER, PAVEMENT TO REMAIN |
| 30                          | 444319.070 | 13088906.686 | CORNER, PAVEMENT TO REMAIN |
| 31                          | 444319.389 | 13088770.162 | CORNER, PAVEMENT TO REMAIN |
| 32                          | 444312.014 | 13088770.162 | CORNER, PAVEMENT TO REMAIN |

### SITE AND BUILDING DEMOLITION PROTECTION PLAN

SCALE: 1"=40'



### GENERAL NOTES

- THE PLANS ARE FOR THE CONTRACTOR'S GENERAL REFERENCE TO AID IN PREPARING PROPOSALS. THE PLANS ARE DIAGRAMMATIC IN NATURE. THE BACKGROUND HAS BEEN PREPARED FROM EXISTING DRAWINGS. THE DRAWINGS ARE NOT TO BE CONSIDERED AN ALL ENCOMPASSING REPRESENTATION OF THE ACTUAL EXISTING CONDITIONS. BIDDERS SHALL VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL. SUBMITTING A PROPOSAL IS EVIDENCE OF THE CONTRACTOR HAVING VISITED THE SITE AND BECOMING FAMILIAR WITH THE ACTUAL SITE CONDITIONS.
- DEMOLITION EXCAVATION LIMITS SHOWN ARE APPROXIMATE. ADJUSTMENTS TO THE LIMITS INCIDENTAL TO DEMOLITION ACTIVITIES MAY BE PERMITTED WITH APPROVAL FROM THE OWNER'S REPRESENTATIVE. IF DEMOLITION OCCURS OUTSIDE OF THE DEMOLITION LIMITS, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF THE IMPACTED IMPROVEMENTS.
- CONTRACTOR SHALL REFER TO SHEET G1.1 FOR SEQUENCING REQUIREMENTS AND MILESTONE REQUIREMENTS.
- CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL PLAN REQUIREMENTS. REFER TO SPECIFICATION SECTION 02140 AND DRAWING CS.0.
- CONTRACTOR SHALL PROTECT UTILITY POLES AND OVERHEAD LINES LOCATED WITHIN DESIGNATED UTILITY EASEMENTS AND AS NOTED.
- CLEAR AND GRUB VEGETATION AREAS WITHIN DEMOLITION LIMITS AS NOTED ON DRAWINGS. IF LIMIT IS NOT SPECIFICALLY IDENTIFIED, CLEAR AND GRUB AS NECESSARY TO COMPLETE ALL CONTRACT WORK.
- REFER TO DRAWING C2.0 FOR UTILITY DEMOLITION, MODIFICATION, AND IMPROVEMENTS.
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND PROPERLY DISPOSE OF ALL IMPROVEMENTS INCLUDING BUT NOT LIMITED TO BUILDINGS, PAVEMENT AND SUBBASE, BOLLARDS, FENCING, CURBS, TREES, BRUSH, UTILITIES COMPLETE LOCATED WITHIN THE DEMOLITION LIMITS.
- PRIOR TO DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL ABANDON, CUT AND CAP ALL UTILITIES AT THE PROJECT BOUNDARIES OR AT THE POINT DESIGNATED ON SHEET C2.0. CONTRACTOR SHALL COORDINATE ABANDONMENT OF UTILITIES WITH THE PROJECT SEQUENCING REQUIREMENTS AND THE OWNER.
- THE FOOTPRINTS OF THE BUILDING LOCATIONS THAT ARE DEPICTED ON THESE PLANS ARE NOT INCLUSIVE AND SHALL BE CONSIDERED APPROXIMATE AND ARE ONLY PROVIDED AS A REFERENCE. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL FORMER BUILDING IMPROVEMENTS INCLUDING FLOOR SLABS AND FOUNDATIONS, COMPLETE.
- CONTRACTOR SHALL PROTECT ALL MONITORING WELLS LOCATED WITHIN THE DEMOLITION LIMITS.
- IF CONTAMINATED SOIL IS ENCOUNTERED OUTSIDE THE APPROXIMATE SOIL EXCAVATION LIMITS, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE.
- ALL REMOVED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. CLEAN-UP AND DISPOSE OF EXCESS MATERIALS OFF-SITE AT A LOCATION DESIGNATED FOR THIS USE AND IN ACCORDANCE WITH LOCAL REGULATIONS.

### KEY NOTES

- PROTECT EXISTING MONITORING WELL THROUGHOUT THE DURATION OF THE PROJECT.
- PROTECT STORM INLET OR MANHOLE THROUGHOUT THE DURATION OF THE PROJECT.
- PROTECT EXISTING PAVEMENT THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL SAW CUT PAVEMENT ALONG THE BOUNDARIES. CONTRACTOR SHALL PROVIDE ACCESS FOR MSU TO BUILDING 0205.
- DEMOLISH ABOVE-GRADE PORTION OF BUILDING. FLOOR SLAB AND CONCRETE FOUNDATIONS SHALL BE LEFT IN-PLACE.
- REMOVE CONCRETE CURB AS REQUIRED TO FACILITATE CONSTRUCTION OF THE SITE IMPROVEMENTS AS SHOWN ON SHEET C3.0.
- PROTECT SHED THROUGHOUT THE DURATION OF THE PROJECT.
- PROTECT EXISTING ASPHALT PAVEMENT AND GUARD RAIL.
- PROTECT EXISTING FENCING THROUGHOUT THE DURATION OF THE PROJECT.
- REMOVE PORTION OF EXISTING FENCE TO FACILITATE THE REMOVAL OF THE BUILDING.
- APPROXIMATE SOIL EXCAVATION LIMITS: ALL SITE IMPROVEMENTS LOCATED WITHIN AREA SHALL BE REMOVED FLUSH WITH EXISTING GRADE. EXISTING PAVEMENT SHALL BE MAINTAINED INSIDE THE AREA. REMOVAL OF PAVEMENT AND CONTAMINATED SOIL TO BE PERFORMED BY OTHERS. REFER TO SHEET GN1.2 FOR SEQUENCING.
- PROTECT POWER POLE AND OVERHEAD LINES.
- PROTECT EXISTING LOADING DOCK AND METAL RAILINGS.

### LEGEND

- DEMOLITION LIMITS
- - - APPROX. SOIL EXCAVATION LIMITS (BY OTHERS)
- RIGHT OF WAY
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING MONITORING WELL
- EXISTING FENCE
- EXISTING RAILROAD TRACKS
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREE
- EXISTING PAVEMENT TO REMAIN

3 WORKING DAYS  
**BEFORE YOU DIG  
 CALL MISS DIG.**  
 1-800-482-7171  
 (TOLL FREE)

FOR LOCATIONS OF UNDERGROUND UTILITIES  
 & IF WORKING NEAR OVERHEAD WIRES

**DLZ**

**CATA**

MICHIGAN

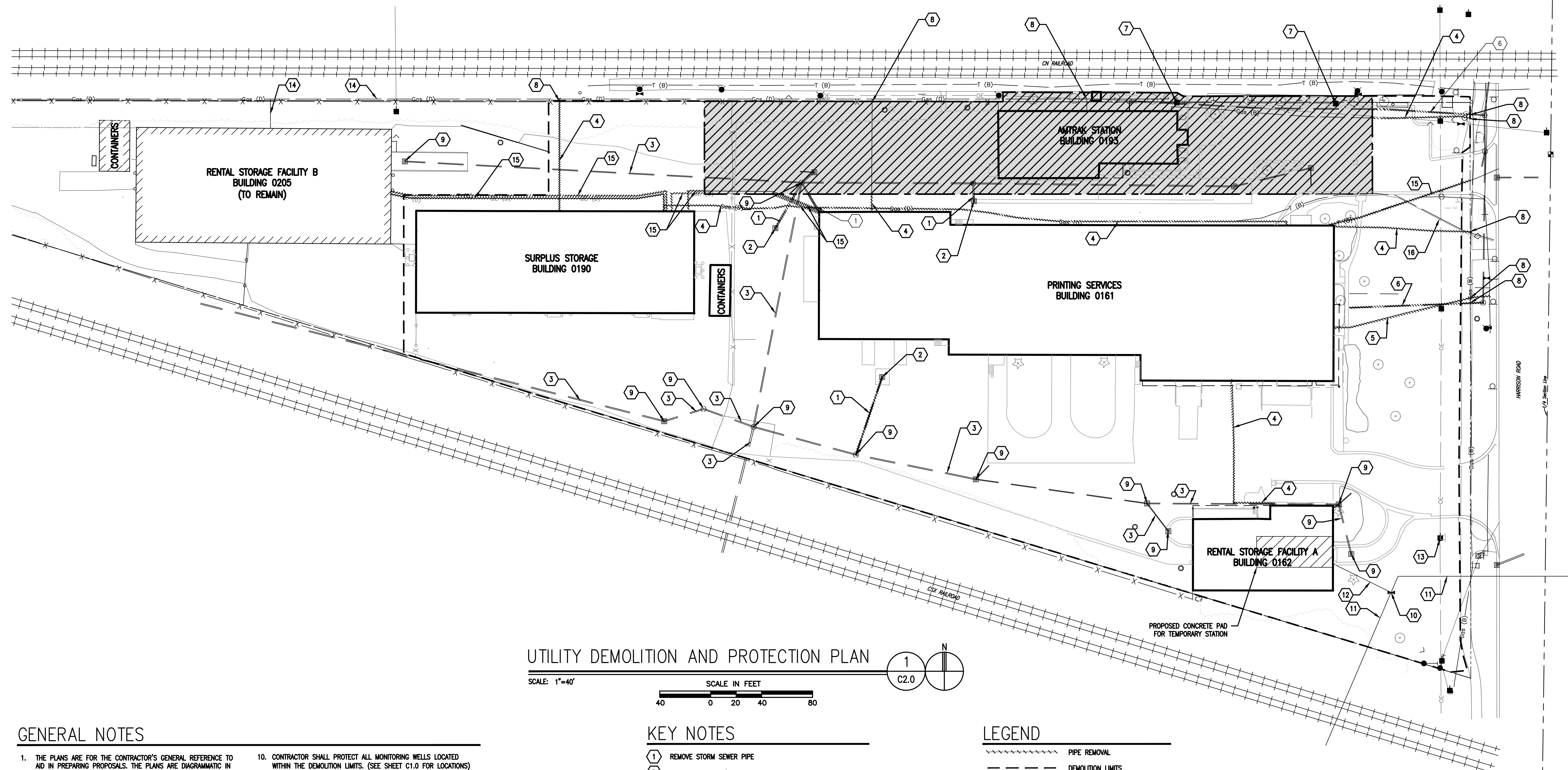
DRAWN: JNJ CHK'D: SJW  
 DESIGNED: SJW  
 APPROVED: MKN  
 DATE: MAY 30, 2013  
 PROJECT NUMBER  
 1341-6517-70

EAST LANSING  
**CAPITAL AREA TRANSPORTATION AUTHORITY  
 EAST LANSING MULTIMODAL TRANSIT CENTER**

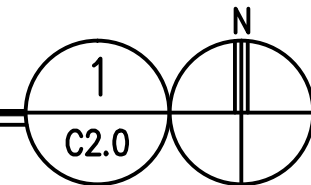
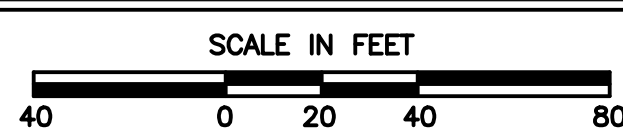
CIVIL  
**SITE AND BUILDING DEMOLITION PROTECTION PLAN**

SHEET 6  
 OF 12  
 DRAWING NUMBER  
**C1.0**

DLZ MICHIGAN, INC.


**UTILITY DEMOLITION AND PROTECTION PLAN**

SCALE: 1"=40'


**GENERAL NOTES**

1. THE PLANS ARE FOR THE CONTRACTOR'S GENERAL REFERENCE TO AID IN PREPARING PROPOSALS. THE PLANS ARE DIAGRAMMATIC IN NATURE, THE BACKGROUND HAS BEEN PREPARED FROM EXISTING DRAWINGS. THE DRAWINGS ARE NOT TO BE CONSIDERED AN ALL ENCOMPASSING REPRESENTATION OF THE ACTUAL EXISTING CONDITIONS. BIDDERS SHALL VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL. SUBMITTING A PROPOSAL IS EVIDENCE OF THE CONTRACTOR HAVING VISITED THE SITE AND BECOMING FAMILIAR WITH THE ACTUAL SITE CONDITIONS.
2. UTILITY DEMOLITION EXCAVATION LIMITS SHOWN ARE APPROXIMATE. ADJUSTMENTS TO THE LIMITS INCIDENTAL TO DEMOLITION ACTIVITIES MAY BE PERMITTED WITH APPROVAL FROM THE OWNERS REPRESENTATIVE. IF DEMOLITION OCCURS OUTSIDE OF THE DEMOLITION LIMITS, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF THE IMPACTED IMPROVEMENTS.
3. CONTRACTOR SHALL REFER TO SHEET G1.1 FOR SEQUENCING REQUIREMENTS AND MILESTONE REQUIREMENTS.
4. CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL PLAN REQUIREMENTS. REFER TO SPECIFICATION SECTION 02140 AND DRAWING C5.0.
5. CONTRACTOR SHALL PROTECT UTILITY POLES AND OVERHEAD LINES LOCATED WITHIN DESIGNATED UTILITY EASEMENTS.
6. REFER TO DRAWING C1.0 FOR GENERAL SITE AND BUILDING DEMOLITION PROTECTION PLAN.
7. REFER TO DRAWING C5.0 FOR EROSION CONTROL REQUIREMENTS.
8. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND PROPERLY DISPOSE OF ALL IMPROVEMENTS INCLUDING BUT NOT LIMITED TO BUILDINGS, PAVEMENT AND SUBBASE, BOLLARDS, FENCING, CURBS, TREES, BRUSH, UTILITIES COMPLETE.
9. THE FOOTPRINTS OF THE BUILDING LOCATIONS THAT ARE DEPICTED ON THESE PLANS ARE NOT INCLUSIVE AND SHALL BE CONSIDERED APPROXIMATE AND ARE ONLY PROVIDED AS A REFERENCE. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL FORMER BUILDING IMPROVEMENTS INCLUDING FLOOR SLABS AND FOUNDATIONS, COMPLETE.
10. CONTRACTOR SHALL PROTECT ALL MONITORING WELLS LOCATED WITHIN THE DEMOLITION LIMITS. (SEE SHEET C1.0 FOR LOCATIONS)
11. IF CONTAMINATED SOIL IS ENCOUNTERED OUTSIDE THE APPROXIMATE SOIL EXCAVATION LIMITS, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL COORDINATE WITH AT&T TO FACILITATE INSTALLATION OF INFRASTRUCTURE REQUIRED TO SUPPLY TELECOM SERVICES TO TEMPORARY STATION.
13. MICHIGAN STATE UNIVERSITY WILL SUPPLY ELECTRICAL POWER TO RENTAL STORAGE FACILITY B. THE CONTRACTOR SHALL COORDINATE THE DISCONNECTION OF EXISTING ELECTRICAL SERVICE TO ALL BUILDINGS TO BE DEMOLISHED WITH MICHIGAN STATE UNIVERSITY ENGINEERING AND ARCHITECTURAL SERVICES TO ASSURE ELECTRICAL SERVICE TO RENTAL STORAGE FACILITY B IS NOT INTERRUPTED.
14. THE CONTRACTOR SHALL COORDINATE CONNECTION OF ELECTRICAL POWER TO TEMPORARY STATION, PARKING LOT LIGHTING AND SIDEWALK LIGHTING WITH CONSUMERS ENERGY.
15. THE CONTRACTOR SHALL COORDINATE CONNECTION OF WATER SERVICE FROM THE EXISTING WATER MAIN TO THE TEMPORARY STATION WITH MICHIGAN STATE UNIVERSITY ENGINEERING AND ARCHITECTURAL SERVICES.
16. THE CONTRACTOR SHALL COORDINATE WITH CONSUMERS ENERGY REGARDING TERMINATION OF NATURAL GAS SERVICE TO BUILDINGS THAT ARE TO BE DEMOLISHED. CUTTING AND CAPPING OF GAS LINES WILL BE PERFORMED BY CONSUMERS ENERGY.
17. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF EAST LANSING REGARDING TERMINATION OF SANITARY SEWER AND WATER SERVICE TO BUILDINGS ON THE SITE. CUTTING AND CAPPING OF EAST LANSING UTILITIES LINES WILL BE PERFORMED AS DIRECTED BY CITY OF EAST LANSING.
18. UTILITIES SHOWN WITHIN SOIL EXCAVATION LIMITS SHALL BE REMOVED BY OTHERS.
19. SEE SHEET GN1.0 FOR UTILITY CONTACT INFORMATION.
20. A SANITARY HOLDING TANK WILL BE PROVIDED BY OTHERS TO HOLD WASTE WATER FORM TEMPORARY STATION.

**KEY NOTES**

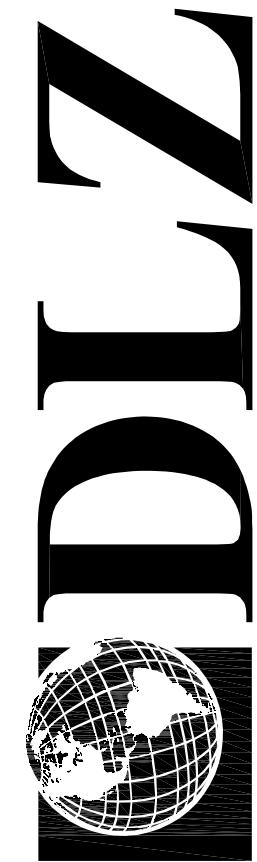
- 1 REMOVE STORM SEWER PIPE
- 2 REMOVE MANHOLE/CATCH BASIN
- 3 STORM SEWER PIPE TO REMAIN IN PLACE
- 4 REMOVE GAS LINE
- 5 REMOVE WATER LINE
- 6 REMOVE SANITARY LINE
- 7 RELOCATE UTILITY POLE, (BY OTHERS) TO BE COORDINATED WITH CONSUMERS ENERGY
- 8 CUT AND CAP UTILITY SERVICE AT PROPERTY LINE OR AS DIRECTED BY UTILITY OWNER (SEE GENERAL NOTES 16 AND 17)
- 9 DRAINAGE STRUCTURE TO REMAIN IN PLACE (SEE SHEET C1.0)
- 10 CONNECT WATER SERVICE FOR TEMPORARY STATION AT EXISTING WATER SHUTOFF VALVE (SEE GENERAL NOTE 15)
- 11 WATER LINE TO REMAIN
- 12 INSTALL 1.5 D.I. WATER SERVICE LEAD FOR TEMPORARY STATION (SEE GENERAL NOTE 15)
- 13 CONSUMERS ENERGY TO PROVIDE ELECTRICAL POWER FROM TRANSFORMER LOCATED ON UTILITY POLE (SEE NOTE 14)
- 14 GAS LINE TO REMAIN
- 15 REMOVE ELECTRICAL/TELECOM CONDUIT AND WIRING (COORDINATE WITH MSU)
- 16 COORDINATE DISCONNECTION OF EXISTING ELECTRICAL SERVICE. (SEE GENERAL NOTE 13)

**LEGEND**

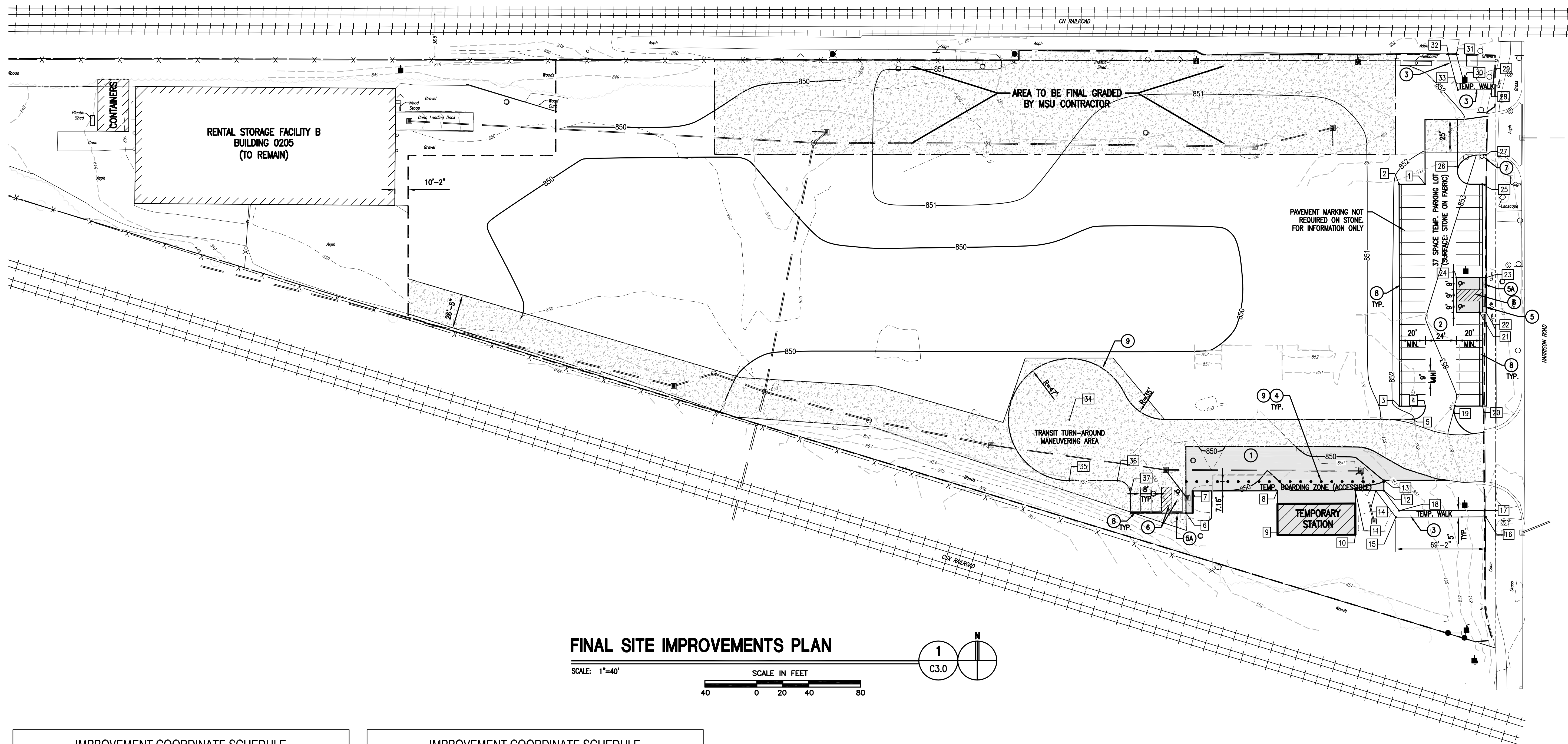
- PIPE REMOVAL
- DEMOLITION LIMITS
- APPROX. SOIL EXCAVATION LIMITS (BY OTHERS)
- RIGHT OF WAY
- EXISTING SANITARY LINE
- EXISTING STORM SEWER LINE
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING MONITORING WELL
- EXISTING WATER SERVICE
- EXISTING GAS SERVICE
- EXISTING ELECTRICAL SERVICE
- EXISTING OVERHEAD ELECTRICAL LINE
- EXISTING FIBER OPTIC SERVICE
- EXISTING FENCE
- EXISTING RAILROAD TRACKS
- EXISTING WATER VALVE
- EXISTING HYDRANT
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREE
- PROPOSED CONCRETE PAD FOR TEMPORARY STATION
- APPROXIMATE SOIL EXCAVATION AREA (BY OTHERS, SEE NOTE 17)



Date: May 30, 2013, 10:57am User: ID: ehschickles File: P:\2013\09112000 CATA East Lansing Multi Modal Station - DLZ\700 CADD &amp; GIS Files\702 CADD\Sheet\Demo Package\6517C2.0.dwg

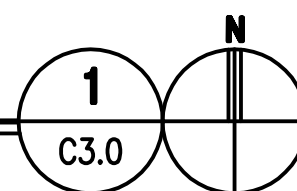
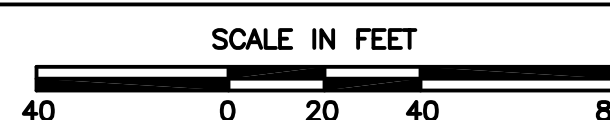


DLZ MICHIGAN, INC.



### FINAL SITE IMPROVEMENTS PLAN

SCALE: 1"=40'



| KEY | NORTHING   | EASTING      | DESCRIPTION              |
|-----|------------|--------------|--------------------------|
| 1   | 444216.476 | 13089083.030 | CORNER, STONE LOT        |
| 2   | 444216.449 | 13089063.030 | CORNER, STONE LOT        |
| 3   | 444045.449 | 13089063.264 | CORNER, STONE LOT        |
| 4   | 444045.476 | 13089083.264 | CORNER, STONE LOT        |
| 5   | 444035.366 | 13089073.277 | CORNER, STONE LOT        |
| 6   | 443963.128 | 13088898.877 | CORNER, PROPOSED ASPHALT |
| 7   | 443980.135 | 13088903.973 | CORNER, PROPOSED ASPHALT |
| 8   | 443980.224 | 13088969.311 | CORNER, PROPOSED ASPHALT |
| 9   | 443946.195 | 13088969.422 | CORNER, PROPOSED ASPHALT |
| 10  | 443946.437 | 13089029.422 | CORNER, PROPOSED ASPHALT |
| 11  | 443980.306 | 13089029.375 | CORNER, PROPOSED ASPHALT |
| 12  | 443980.336 | 13089051.352 | CORNER, PROPOSED ASPHALT |
| 13  | 443988.336 | 13089051.341 | CORNER, PROPOSED ASPHALT |
| 14  | 443980.327 | 13089045.063 | CORNER, TEMPORARY WALK   |
| 15  | 443959.916 | 13089060.553 | CORNER, TEMPORARY WALK   |
| 16  | 443960.152 | 13089129.801 | CORNER, TEMPORARY WALK   |
| 17  | 443965.152 | 13089129.780 | CORNER, TEMPORARY WALK   |
| 18  | 443964.926 | 13089063.028 | CORNER, TEMPORARY WALK   |
| 19  | 444045.855 | 13089106.006 | CORNER, STONE LOT        |
| 20  | 444045.536 | 13089127.264 | CORNER, STONE LOT        |

| KEY | NORTHING   | EASTING      | DESCRIPTION                |
|-----|------------|--------------|----------------------------|
| 21  | 444118.033 | 13089124.915 | CORNER, STONE LOT          |
| 22  | 444117.540 | 13089130.165 | CORNER, PROPOSED ASPHALT   |
| 23  | 444144.540 | 13089130.128 | CORNER, PROPOSED ASPHALT   |
| 24  | 444144.509 | 13089107.128 | CORNER, PROPOSED ASPHALT   |
| 25  | 444216.499 | 13089127.030 | EDGE, STONE LOT            |
| 26  | 444229.708 | 13089108.606 | EDGE, STONE LOT            |
| 27  | 444239.093 | 13089129.938 | CORNER, PAVEMENT TO REMAIN |
| 28  | 444289.208 | 13089134.258 | CORNER, TEMPORARY WALK     |
| 29  | 444295.210 | 13089135.721 | CORNER, TEMPORARY WALK     |
| 30  | 444295.172 | 13089112.922 | CORNER, TEMPORARY WALK     |
| 31  | 444317.059 | 13089107.079 | CORNER, TEMPORARY WALK     |
| 32  | 444317.044 | 13089100.873 | CORNER, TEMPORARY WALK     |
| 33  | 444289.164 | 13089108.316 | CORNER, TEMPORARY WALK     |
| 34  | 444035.064 | 13088809.089 | CORNER, TEMPORARY WALK     |
| 35  | 443988.064 | 13088809.089 | CORNER, TEMPORARY WALK     |
| 36  | 443988.064 | 13088845.976 | CORNER, TEMPORARY WALK     |
| 37  | 443978.078 | 13088855.976 | CORNER, TEMPORARY WALK     |

### GENERAL IMPROVEMENT NOTES

- UTILITIES SHOWN ARE APPROXIMATE, FIELD VERIFY PRIOR TO CONSTRUCTION.
- DIMENSIONS ARE TAKEN FROM THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- PROJECT LIMITS SHOWN ARE APPROXIMATE. ADJUSTMENTS TO THE LIMITS INCIDENTAL TO CONSTRUCTION ACTIVITIES MAY BE PERMITTED WITH THE APPROVAL OF THE ARCHITECT. CONTRACTOR SHALL FIELD MARK ANY PROPOSED CHANGES TO THE CONSTRUCTION LIMITS FOR ARCHITECT APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- ALL AREAS DISTURBED, NOT BUILT, PAVED OR OTHERWISE COVERED BY CONSTRUCTION, SHALL BE SEEDED PER THE REQUIREMENTS OF SPEC. SECTION 32 92 00. REFER TO SPECIFICATION SECTION 32 92 00 FOR PLANTING/TOPSOIL MIX.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC MAINTENANCE PLANS, PERMITS, AND COORDINATION WITH APPROPRIATE JURISDICTIONS REGARDING PUBLIC R.O.W. WORK.
- SEE SHEET C1.0 FOR LIMITS OF EXISTING PAVEMENT TO REMAIN.
- REFER TO DRAWING C4.0 FOR GRADING AND DRAINAGE REQUIREMENTS.

### SITE IMPROVEMENT KEY

- 1 ASPHALT PAVEMENT
- 2 STONE PARKING AREA
- 3 HMA TEMPORARY SIDEWALK
- 4 REFLECTIONIZED CHANNELIZER POST
- 5 ACCESSIBLE PARKING SIGNAGE
- 5A ACCESSIBLE PARKING SIGNAGE WITH VAN ACCESSIBLE TAG
- 6 ACCESSIBLE PARKING SPACE & MARKINGS
- 7 STOP SIGN
- 8 CONCRETE PARKING BLOCK DETAIL
- 9 6" SOLID WHITE STRIPE

### LEGEND

- DEMOLITION LIMITS
- APPROX. SOIL EXCAVATION LIMITS (BY OTHERS)
- RIGHT OF WAY
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING MONITORING WELL
- EXISTING FENCE
- EXISTING RAILROAD TRACKS
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREE
- EXISTING CONTOUR
- EXISTING PAVEMENT TO REMAIN
- PROPOSED PAVEMENT
- PROPOSED CONTOUR

3 WORKING DAYS  
**BEFORE YOU DIG**  
 CALL MISS DIG.  
 1-800-482-7171  
 (TOLL FREE)

FOR LOCATIONS OF UNDERGROUND UTILITIES & IF WORKING NEAR OVERHEAD WIRES

DRAWN: JNJ CHK'D: SAJ  
 DESIGNED: JLP  
 APPROVED: MKN  
 DATE: MAY 30, 2013  
 PROJECT NUMBER  
 1341-6517-70

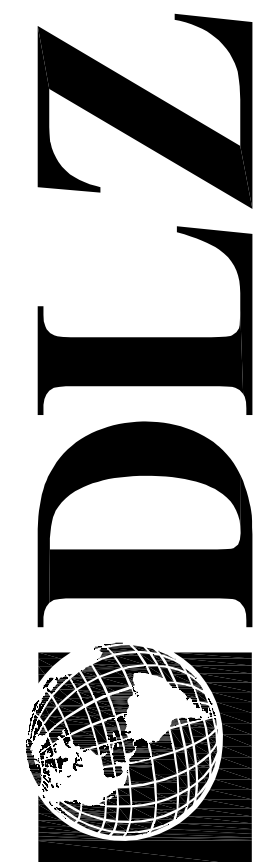
MICHIGAN  
 CAPITAL AREA TRANSPORTATION AUTHORITY  
 EAST LANSING MULTIMODAL TRANSIT CENTER

CIVIL  
 FINAL SITE IMPROVEMENTS PLAN

SHEET 8 OF 12  
 DRAWING NUMBER  
**C3.0**

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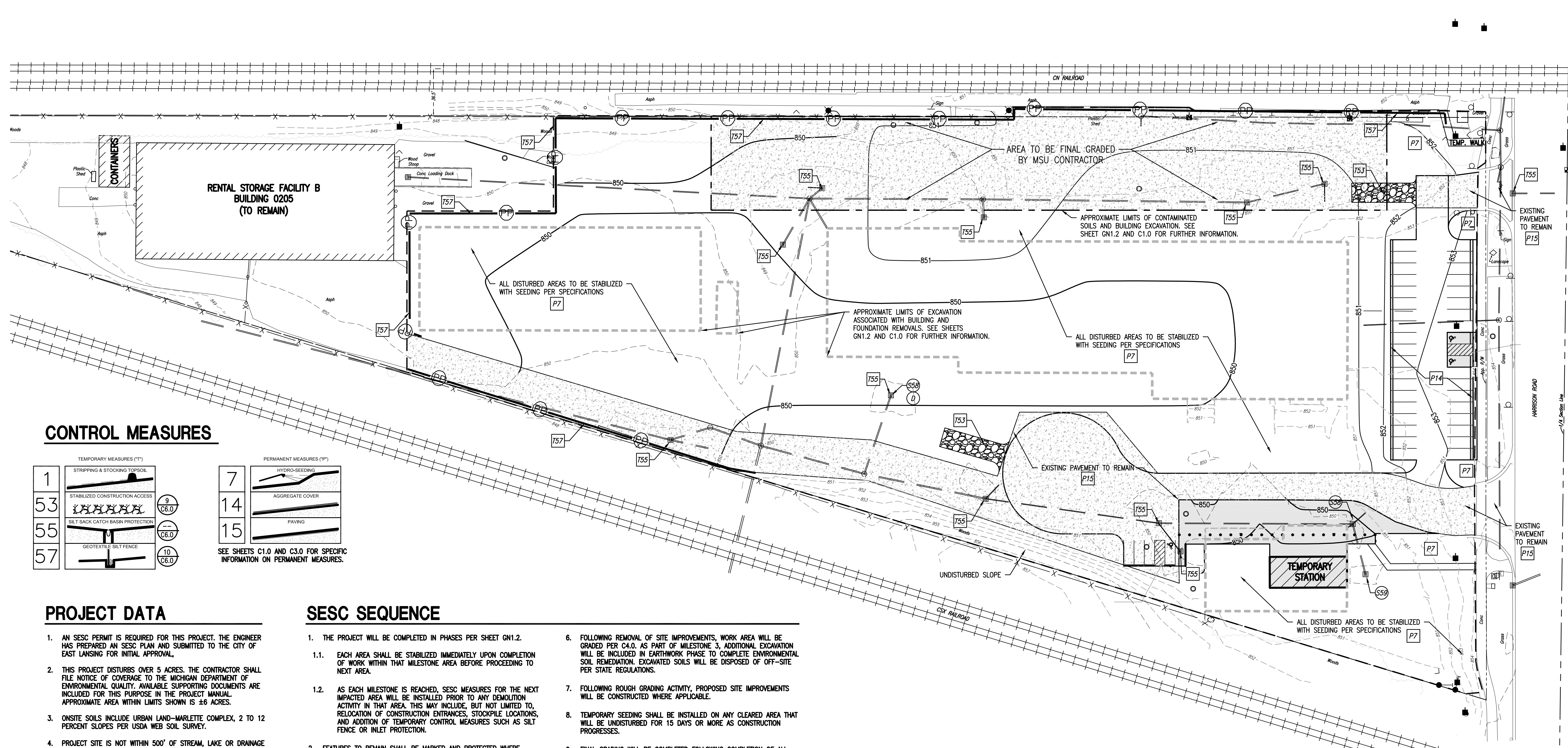


DLZ MICHIGAN, INC.

DRAWN: SAR  
DESIGNED: SAR  
APPROVED: SB  
DATE: MAY 30, 2013  
PROJECT NUMBER

MICHIGAN  
CAPITAL AREA TRANSPORTATION AUTHORITY  
EAST LANSING MULTIMODAL TRANSIT CENTER  
CIVIL  
1341-6517-70

SHEET 10  
OF 12  
DRAWING NUMBER  
C5.0



### CONTROL MEASURES

| TEMPORARY MEASURES ("T") |                                  | PERMANENT MEASURES ("P") |                 |
|--------------------------|----------------------------------|--------------------------|-----------------|
| 1                        | STRIPPING & STOCKING TOPSOIL     | 7                        | HYDRO-SEEDING   |
| 53                       | STABILIZED CONSTRUCTION ACCESS   | 14                       | AGGREGATE COVER |
| 55                       | SILT SACK CATCH BASIN PROTECTION | 15                       | PAVING          |
| 57                       | GEOTEXTILE SILT FENCE            |                          |                 |

SEE SHEETS C1.0 AND C3.0 FOR SPECIFIC INFORMATION ON PERMANENT MEASURES.

### PROJECT DATA

- AN SESC PERMIT IS REQUIRED FOR THIS PROJECT. THE ENGINEER HAS PREPARED AN SESC PLAN AND SUBMITTED TO THE CITY OF EAST LANSING FOR INITIAL APPROVAL.
- THIS PROJECT DISTURBS OVER 5 ACRES. THE CONTRACTOR SHALL FILE NOTICE OF COVERAGE TO THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. AVAILABLE SUPPORTING DOCUMENTS ARE INCLUDED FOR THIS PURPOSE IN THE PROJECT MANUAL. APPROXIMATE AREA WITHIN LIMITS SHOWN IS 4.6 ACRES.
- ONSITE SOILS INCLUDE URBAN LAND-MARLETTE COMPLEX, 2 TO 12 PERCENT SLOPES PER USDA WEB SOIL SURVEY.
- PROJECT SITE IS NOT WITHIN 500' OF STREAM, LAKE OR DRAINAGE CHANNEL. NO WETLANDS HAVE BEEN IDENTIFIED IN THE IMMEDIATE PROJECT AREA.
- DUE TO THE EXISTING SITE TOPOGRAPHY AND LOCATION BETWEEN 2 RAIL CORRIDORS, IT IS NOT ANTICIPATED THAT STORM WATER FROM PROJECT SITE WOULD ADVERSELY IMPACT ADJACENT PROPERTIES.
- COMPLETE LEGAL DESCRIPTION OF SITE IS NOT CURRENTLY AVAILABLE.
- ESTIMATED QUANTITY OF EXCAVATION IS NOT AVAILABLE DUE TO THE UNKNOWN DEPTH OF FOUNDATIONS PRESENT AND DEPTH OF CONTAMINATED SOILS SLATED FOR REMEDIATION THAT MAY BE ENCOUNTERED. THE SITE WILL BE RESTORED NEAR EXISTING GRADE PER SHEET C4.0.

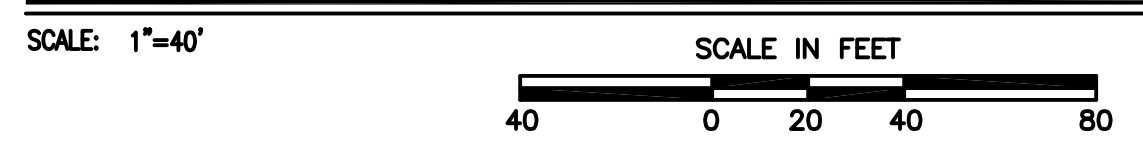
### SESC SEQUENCE

- THE PROJECT WILL BE COMPLETED IN PHASES PER SHEET GN1.2.
  - EACH AREA SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF WORK WITHIN THAT MILESTONE AREA BEFORE PROCEEDING TO NEXT AREA.
  - AS EACH MILESTONE IS REACHED, SESC MEASURES FOR THE NEXT IMPACTED AREA WILL BE INSTALLED PRIOR TO ANY DEMOLITION ACTIVITY IN THAT AREA. THIS MAY INCLUDE, BUT NOT LIMITED TO, RELOCATION OF CONSTRUCTION ENTRANCES, STOCKPILE LOCATIONS, AND ADDITION OF TEMPORARY CONTROL MEASURES SUCH AS SILT FENCE OR INLET PROTECTION.
- FEATURES TO REMAIN SHALL BE MARKED AND PROTECTED WHERE APPLICABLE PRIOR TO START OF DEMOLITION ACTIVITY.
- CONSTRUCTION ACCESS POINTS WILL BE STABILIZED PER DETAIL ON C6.0 PRIOR TO DISTURBANCE.
- INLET/CATCH BASIN PROTECTION SHALL BE INSTALLED PRIOR TO START OF ANY DEMOLITION ACTIVITIES, OR DISTURBANCE OF PAVEMENT OR PLANTING AREA WITHIN 50' OR UPSTREAM FROM THE STRUCTURE. PROTECTION IS TO REMAIN AND BE MAINTAINED UNTIL ADJACENT AREA HAS BEEN STABILIZED. INLETS SLATED FOR REMOVAL WILL BE PROTECTED UNTIL DISCONNECTED FROM THE STORM SYSTEM.
- FOLLOWING BUILDING DEMOLITION, REMOVAL OF PAVEMENTS AND OTHER ABOVE AND BELOW GRADE SITE IMPROVEMENTS WILL BEGIN. PAVEMENTS SHALL REMAIN IN PLACE UNTIL THEY ARE READY FOR REPLACEMENT AND/OR FINAL REMOVAL AND STABILIZATION IN ORDER TO MINIMIZE EROSION AND SEDIMENT TRACKING.
  - FOLLOWING REMOVAL OF SITE IMPROVEMENTS, WORK AREA WILL BE GRADED PER C4.0. AS PART OF MILESTONE 3, ADDITIONAL EXCAVATION WILL BE INCLUDED IN EARTHWORK PHASE TO COMPLETE ENVIRONMENTAL SOIL REMEDIATION. EXCAVATED SOILS WILL BE DISPOSED OF OFF-SITE PER STATE REGULATIONS.
  - FOLLOWING ROUGH GRADING ACTIVITY, PROPOSED SITE IMPROVEMENTS WILL BE CONSTRUCTED WHERE APPLICABLE.
  - TEMPORARY SEEDING SHALL BE INSTALLED ON ANY CLEARED AREA THAT WILL BE UNDISTURBED FOR 15 DAYS OR MORE AS CONSTRUCTION PROGRESSES.
  - FINAL GRADING WILL BE COMPLETED FOLLOWING COMPLETION OF ALL REMOVALS AND HARDSCAPE IMPROVEMENTS. ALL DISTURBED AREAS ARE TO BE STABILIZED WITHIN 5 DAYS OF FINAL GRADING.
  - ALL SESC MEASURES AND MAINTENANCE OF MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL COMPLETION. FOLLOWING COMPLETION, OWNER WILL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY MEASURES AS NEEDED AFTER STABILIZATION IS COMPLETE AS WELL AS LONG-TERM MAINTENANCE OF THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO, REGULAR MAINTENANCE OF STORM SEWER AND LANDSCAPE AS WELL AS MONITORING SITE FOR EROSION AND OTHER POLLUTANT SOURCES.

### GENERAL SESC NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS, APPROVED SESC PLANS, PERMIT CONDITIONS AND WITH PARTS 31 AND 91 OF PUBLIC ACT 451 OF 1994. IF REQUIRED, THE OWNER SHALL OBTAIN A SOIL EROSION AND SEDIMENTATION CONTROL (SESC) PERMIT FROM THE APPROPRIATE MUNICIPAL ENFORCING AGENCY (MEA) OR COUNTY ENFORCING AGENCY (CEA). PERMIT FEES AND ROUTINE INSPECTIONS CHARGED BY THE MEA/CEA WILL BE PAID FOR BY THE OWNER.
- PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL RETAIN A DEQ CERTIFIED STORM WATER OPERATOR (CSWO) TO PROVIDE THE REQUIRED SESC REPORTS (WHICH INCLUDE THE WEEKLY AND STORM EVENT REPORTS AS WELL AS ALL FOLLOW UP REPORTS FOR BOTH VIOLATIONS AND STORM EVENT CORRECTIONS) ON THE STANDARD DEQ FORM. THE CONTRACTOR SHALL PROVIDE THE REPORTS TO THE OWNER ON A WEEKLY BASIS, AND RETAIN THOSE REPORTS FOR THREE (3) YEARS.
- PRIOR TO BEGINNING ANY EARTH CHANGE, AND DURING THE LIFE OF THE CONTRACT, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TEMPORARY SESC MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS. SESC PLANS, AND AS DIRECTED BY THE OWNER, CSWO, MEA/CEA UNTIL THE CAPITAL AREA TRANSPORTATION AUTHORITY (CATA) OFFICIALLY TAKES OVER RESPONSIBILITY FOR THE SITE.
- IMMEDIATELY PRIOR TO CATA TAKING RESPONSIBILITY FOR THE SITE, THE CONTRACTOR:
  - WILL BE REQUIRED TO CLEAN ALL CATCH BASINS AFFECTED BY THE CONSTRUCTION, BOTH WITHIN THE CONTRACT LIMITS AND ALL SURROUNDING ROADS AND LAWN AREAS WHEN SOIL MAY HAVE SPREAD AS THE RESULT OF CONSTRUCTION ACTIVITIES.
  - SHALL PUT ALL TEMPORARY SESC MEASURES IN SATISFACTORY CONDITION AS DETERMINED BY THE CSWO.
- ALL TEMPORARY SESC MEASURES WILL REMAIN IN PLACE AND WILL BECOME THE PROPERTY OF THE OWNER WHEN RESPONSIBILITY FOR MAINTAINING THE SESC MEASURES BECOMES THE OWNER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEANUP OPERATIONS IN A MANNER SUCH THAT SEDIMENT, GENERATED BY WIND OR WATER IS NOT DISCHARGED OFF SITE OR INTO ANY STORM SEWER, DRAINAGE DITCH, RIVER, LAKE, AIR, OR UNDERGROUND UTILITY SYSTEM. STAGE THE WORK PER PLAN TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.
- WATER FROM TRENCHES AND OTHER EXCAVATION SHALL BE PASSED THROUGH AN APPROVED FILTRATION BAG TO REMOVE SEDIMENTS FROM THE WATER BEFORE IT IS RELEASED INTO THE STORM WATER DRAINAGE SYSTEM.
- IF SEDIMENT EXTENDS BEYOND THE PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND RESTORATION OF ALL SURFACES AND UTILITY SYSTEMS TO THE CONDITION THAT EXISTED PRIOR TO THE CONTRACT AWARD.
- ALL SESC MEASURES SHALL BE MAINTAINED DAILY.
- SHOULD VIOLATIONS (IRRESPECTIVE OF A FINE BEING ASSESSED) BE IDENTIFIED BY THE OWNER, CSWO, MEA/CEA OR DEQ, THEY SHALL BE CORRECTED WITHIN 24 HOURS OF NOTIFICATION. THE CORRECTION(S) SHALL BE APPROVED BY THE OWNER, CSWO, MEA/CEA OR DEQ. ALL SUBSEQUENT INSPECTIONS PERFORMED BY THE OWNER, CSWO, MEA/CEA OR DEQ AS A RESULT OF THE VIOLATION (AND ANY OTHER ASSOCIATED COSTS) WILL BE PAID BY THE CONTRACTOR. IF IDENTIFIED VIOLATIONS ARE NOT CORRECTED WITHIN 24 HOURS OF WRITTEN NOTICE, THE OWNER SHALL HAVE THE RIGHT TO MAKE NECESSARY REPAIRS AT THE CONTRACTOR'S EXPENSE, WITHOUT BEING REQUIRED TO PROVIDE FURTHER NOTICE TO CONTRACTOR.
- FINES ASSESSED AS A RESULT OF THE VIOLATION FOR NON-COMPLIANCE OF THE SESC PROVISIONS, WILL BE PAID BY THE CONTRACTOR. SHOULD A "STOP WORK" ORDER FOR NON-COMPLIANCE BE ISSUED, A TIME EXTENSION REQUEST FOR THAT TIME PERIOD WILL NOT BE GRANTED. (FINES COULD BE ASSESSED UP TO AND INCLUDING \$25,000/DAY FOR EACH VIOLATION).
- CONSTRUCTION ACCESS ROADS WILL BE PROTECTED WITH CRUSHED STONE OR CRUSHED CONCRETE, AGGREGATE 6A, AS PER CITY OF EAST LANSING SESC DETAILS (REFER TO CITY OF EAST LANSING STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS)
- EX WALKS AND PAVEMENTS CALLED OUT FOR REMOVAL WILL REMAIN IN PLACE FOR SOIL EROSION CONTROL UNTIL READY TO REMOVE & REPLACE.
- MATERIAL STOCKPILES WILL BE LOCATED BY CONTRACTOR AS NEEDED FOR EACH PHASE OF THE PROJECT. ALL MATERIAL STOCKPILES WILL BE PROTECTED WITH SILT FENCE 10' FROM TOE OF SLOPE.
- ANY SEDIMENT TRACKED OUT OF PROJECT AREA ONTO PUBLIC STREETS MUST BE CLEANED UP THE SAME DAY IT OCCURS.

### SOIL EROSION AND SEDIMENTATION CONTROL PLAN

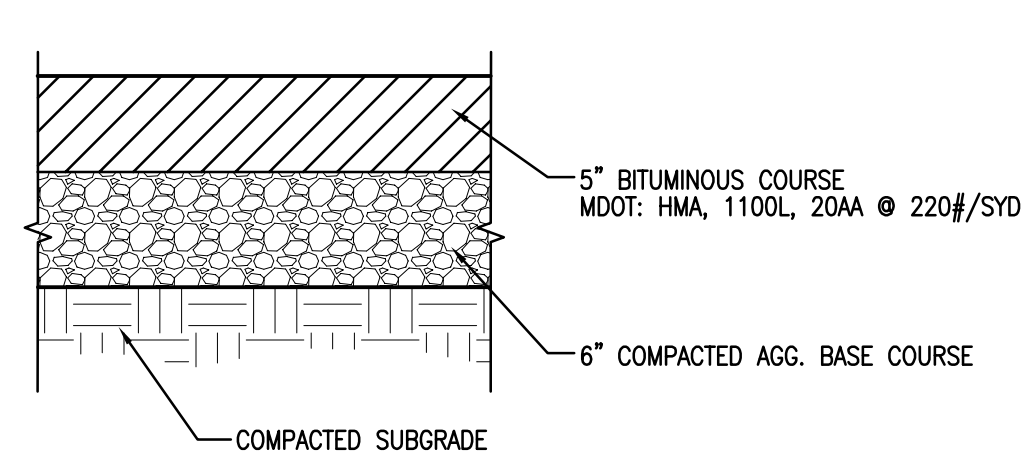


### LEGEND

- DEMOLITION LIMITS
- APPROXIMATE SOIL EXCAVATION LIMITS (BY OTHERS)
- APPROXIMATE LIMITS OF BUILDING/FOUNDATION EXCAVATIONS
- RIGHT OF WAY
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING MONITORING WELL
- EXISTING FENCE
- EXISTING RAILROAD TRACKS
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREE
- EXISTING CONTOUR
- EXISTING PAVEMENT TO REMAIN
- PROPOSED PAVEMENT
- PROPOSED CONTOUR
- PROPOSED SILT FENCE



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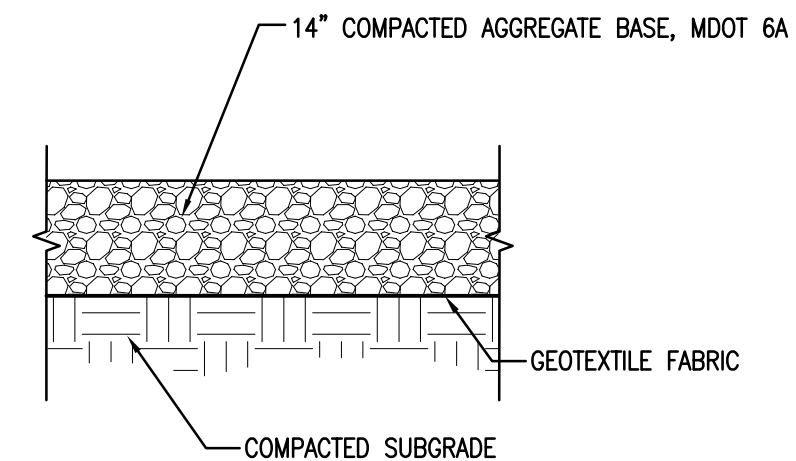


- NOTES:**
- CONTRACTOR TO COMPACT SUBGRADE MECHANICALLY TO A MINIMUM OF 100% STANDARD PROCTOR, PLACE AND COMPACT BASE MEETING INDOT NO. 53 STONE SPECIFICATIONS TO A MINIMUM OF 100% STANDARD PROCTOR.
  - SEE SPECIFICATION SECTION 321216.

**ASPHALT PAVEMENT DETAIL**

SCALE: N.T.S.

1  
C6.0

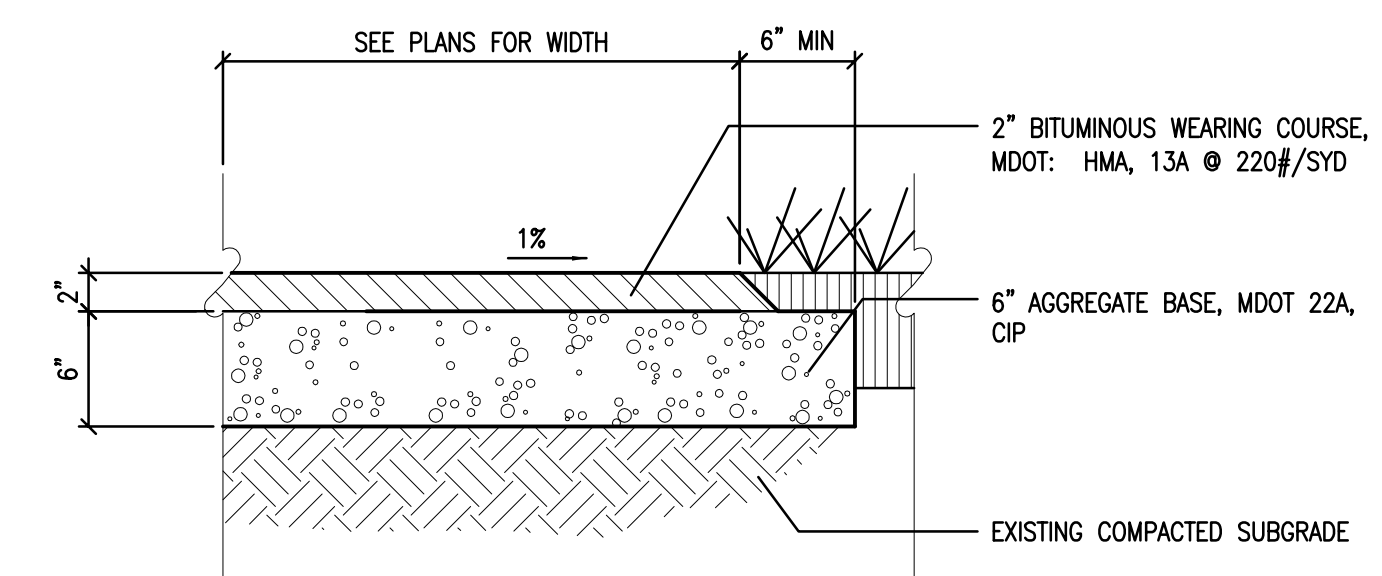


- NOTES:**
- CONTRACTOR TO COMPACT SUBGRADE MECHANICALLY TO A MINIMUM OF 100% STANDARD PROCTOR, PLACE AND COMPACT BASE MEETING INDOT NO. 53 STONE SPECIFICATIONS TO A MINIMUM OF 100% STANDARD PROCTOR.

**GRAVEL DRIVE & PARKING DETAIL**

SCALE: N.T.S.

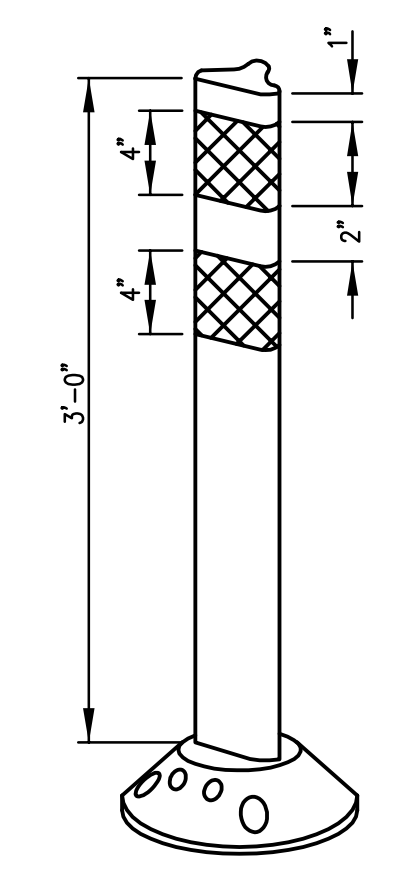
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**HMA TEMPORARY WALK SECTION**

SCALE: N.T.S.

3  
C6.0

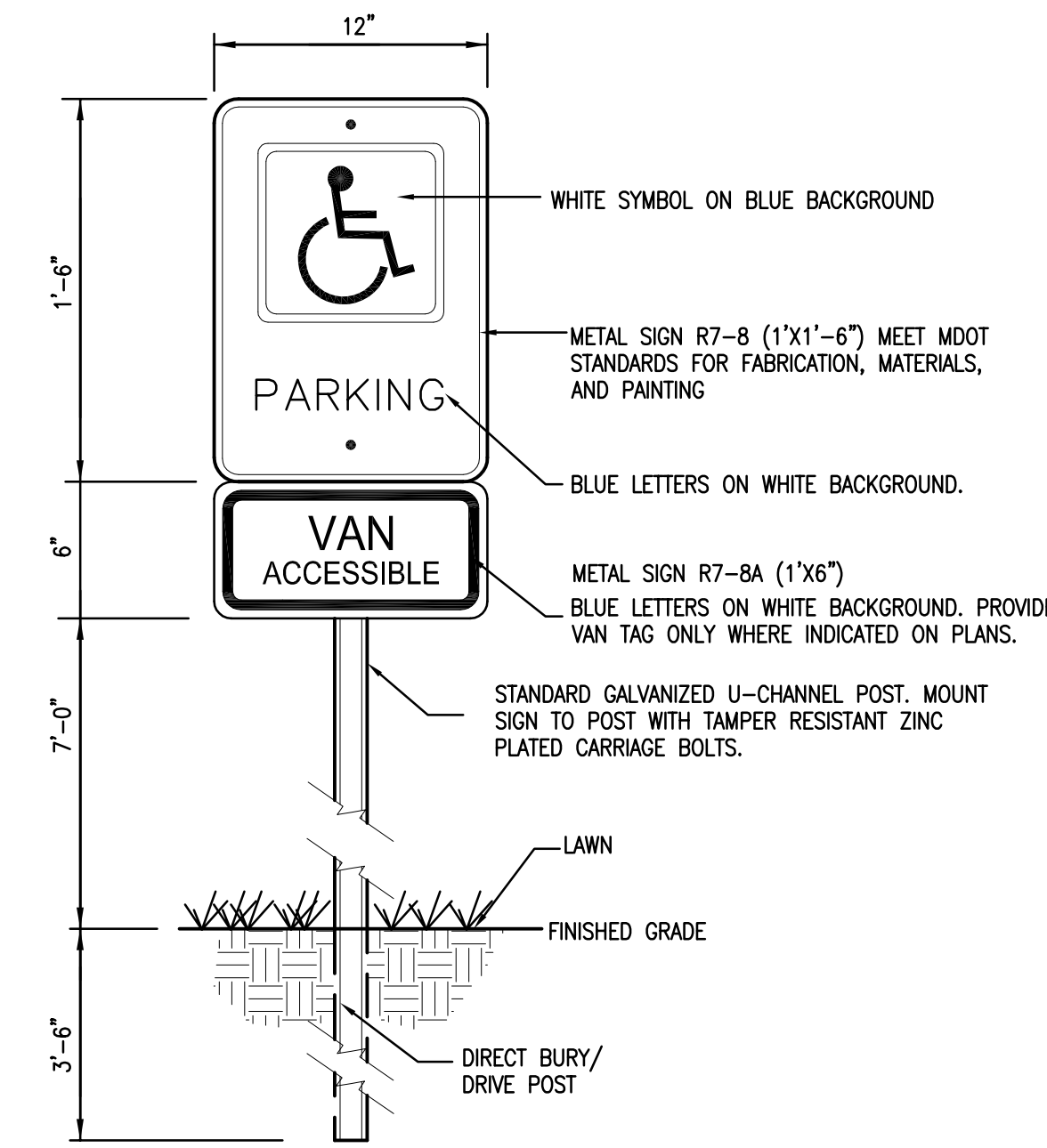


- NOTE:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

**CHANNELIZER POST DETAIL**

SCALE: N.T.S.

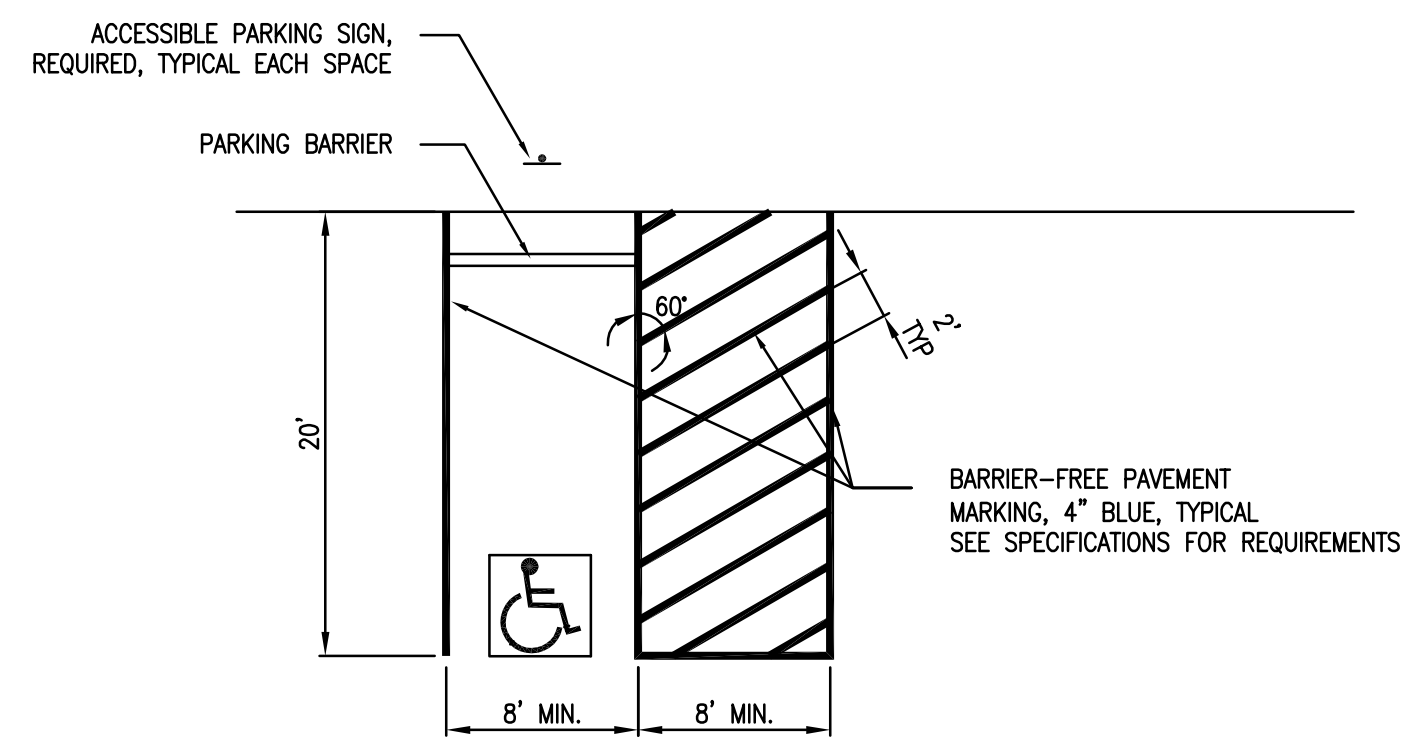
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**ACCESSIBLE PARKING SIGNAGE**

SCALE: N.T.S.

5  
C6.0

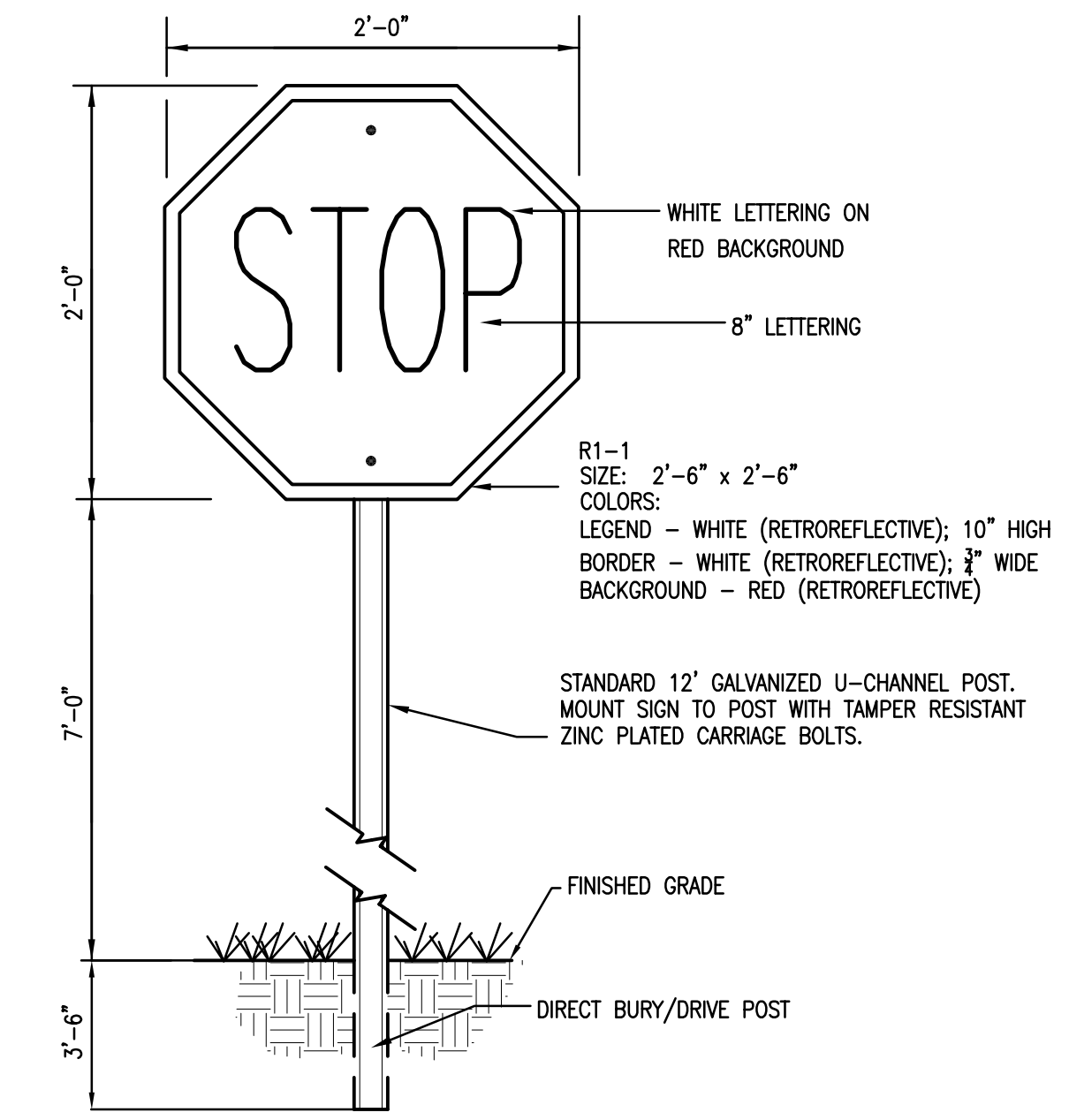


- NOTES:**
- REFER TO DRAWINGS FOR ACTUAL LOCATION AND NUMBER OF ACCESSIBLE STALLS.
  - ACCESS AISLES MAY BE SHARED BETWEEN SPACES.
  - INSTALL ACCESSIBLE PARKING SIGN(S) IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
  - FINISH GRADE OF BARRIER-FREE PARKING STALLS INCLUDING AISLES WILL NOT EXCEED 2% (1/4\"/>

**ACCESSIBLE PARKING LAYOUT**

SCALE: N.T.S.

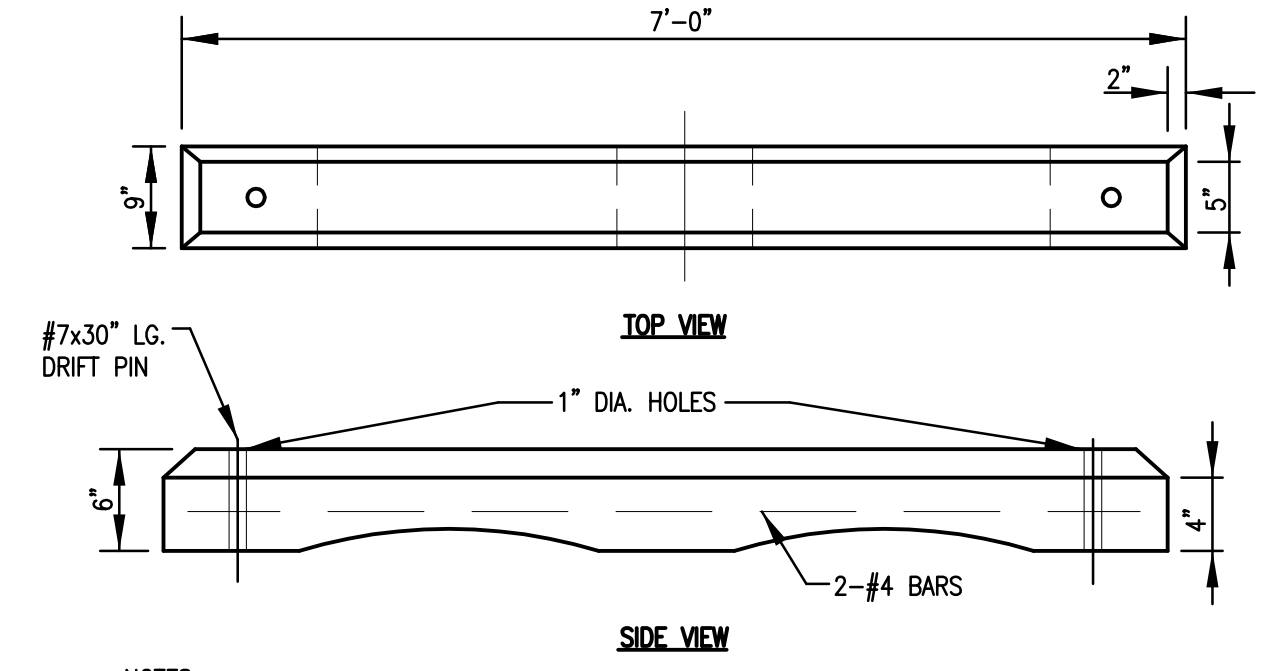
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**STOP SIGN DETAIL**

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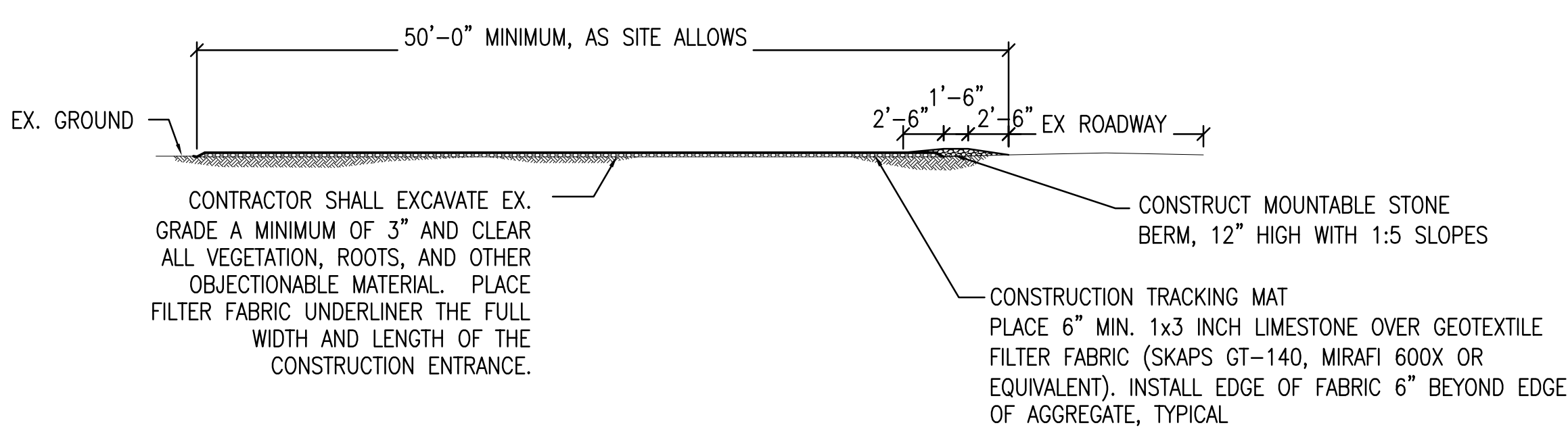
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C6.0



**CONCRETE PARKING BLOCK DETAIL**

SCALE: N.T.S.

8  
C6.0

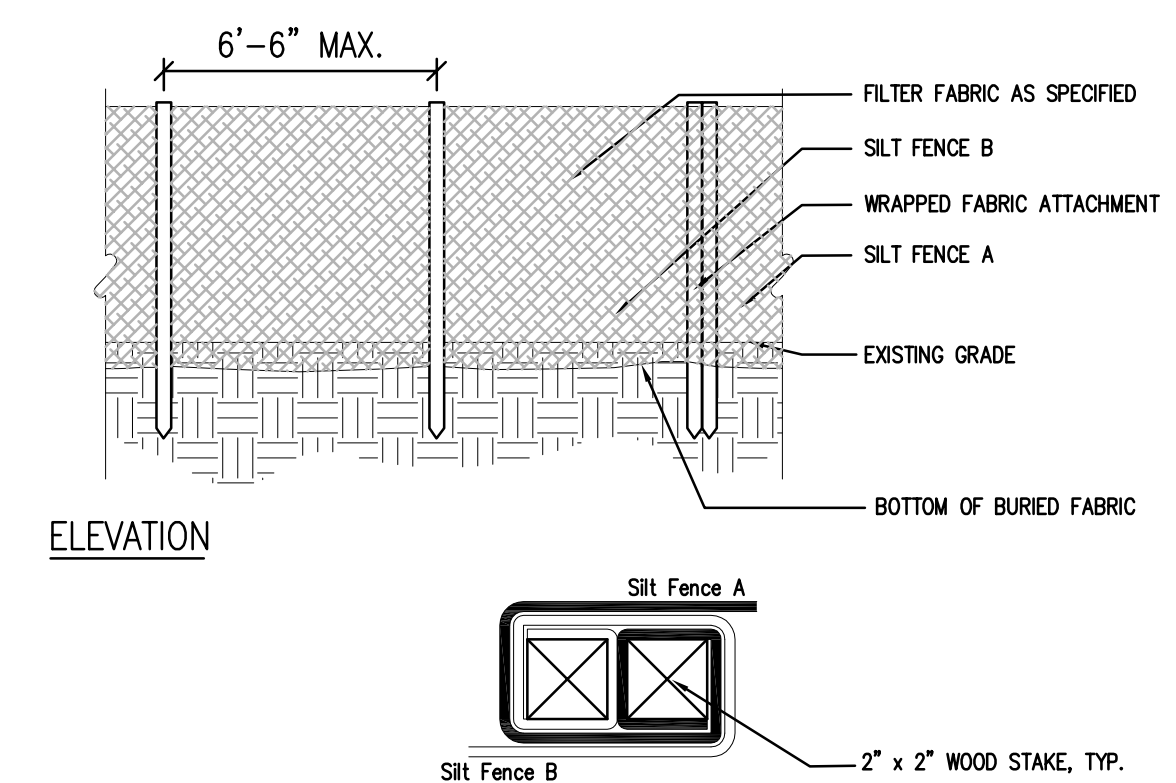


**STABILIZED CONSTRUCTION ACCESS (MUD MAT) DETAIL**

SCALE: N.T.S.

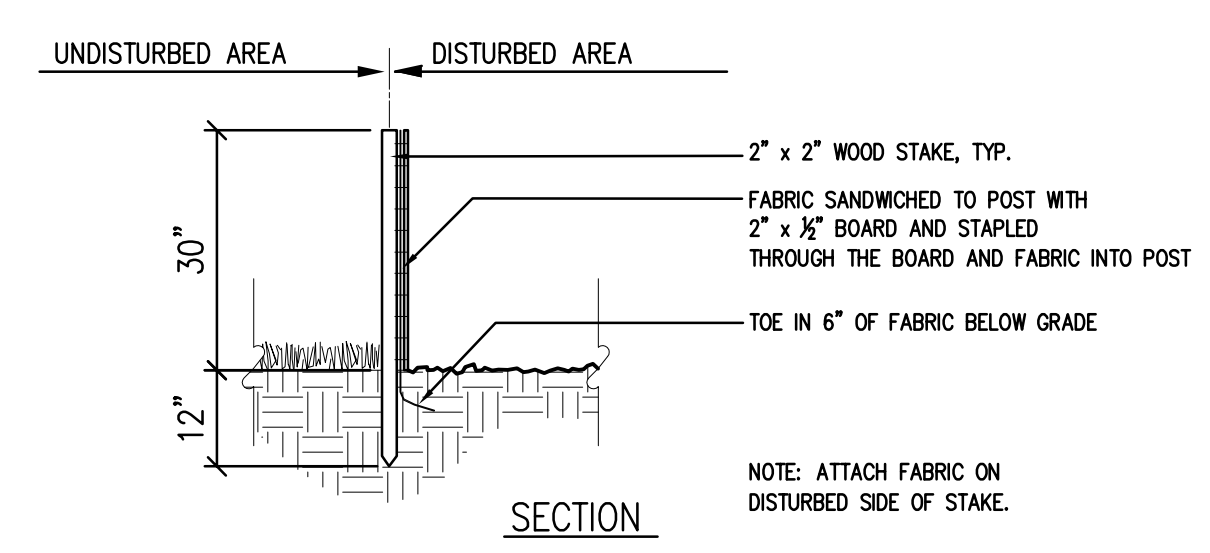
9  
C6.0

- NOTES:**
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND.
  - IF CONDITIONS ON THE SITE ARE SUCH THAT THE MAJORITY OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO AN APPROVED SETTLING AREA TO REMOVE SEDIMENT.
  - ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS MUST BE REMOVED IMMEDIATELY.
  - THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED.



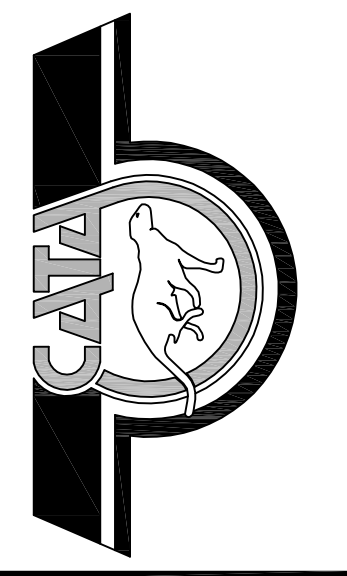
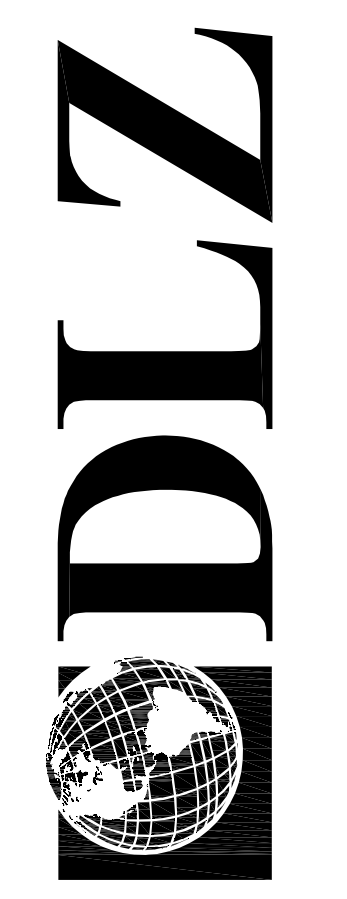
**SILT FENCE DETAIL**

SCALE: 1/2"=1'-0"



10  
C6.0

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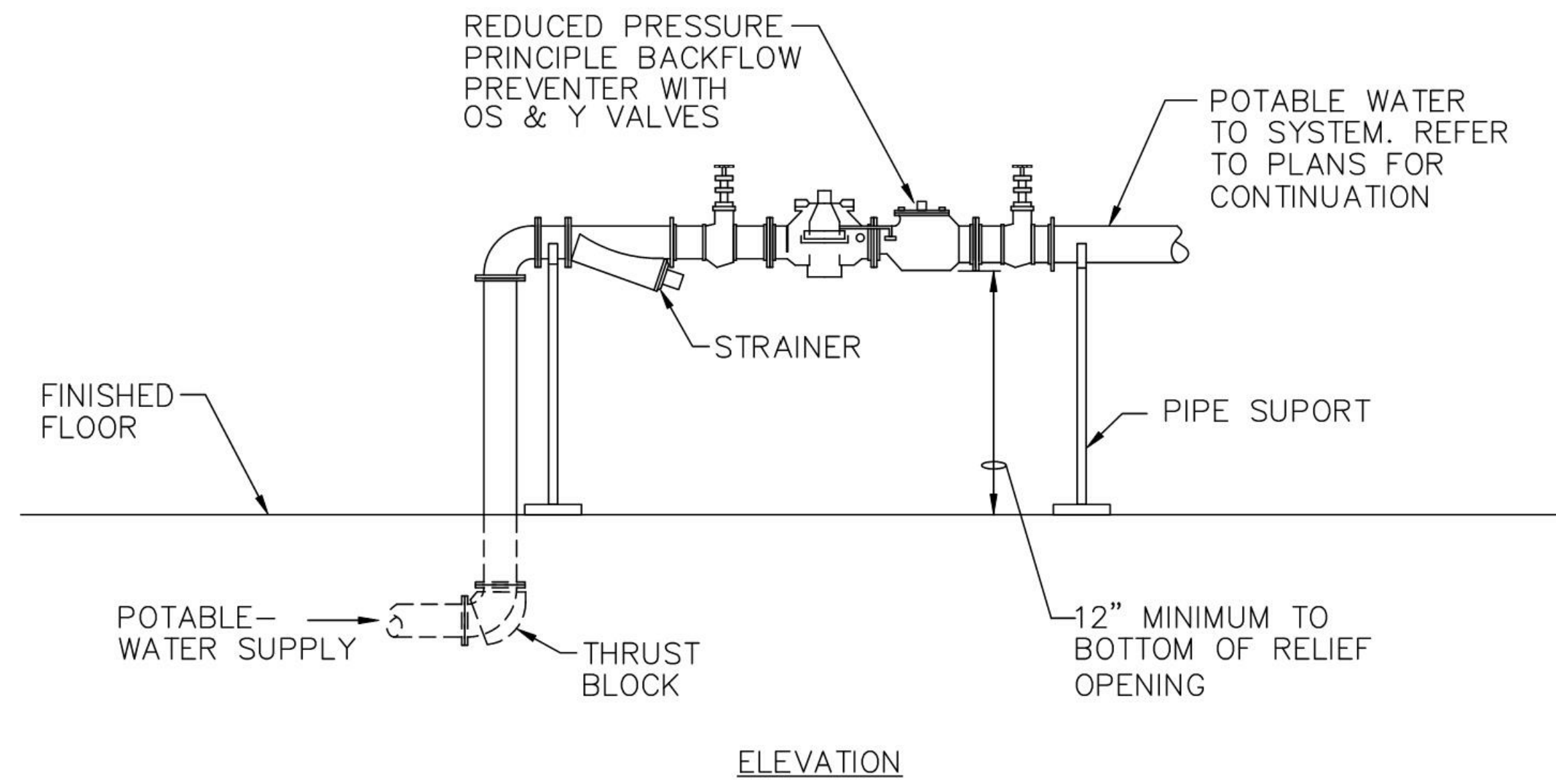
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DESIGNED: SJW  
APPROV'D: MIN  
DATE: MAY 30, 2013  
PROJECT NUMBER  
1341-6517-70

MICHIGAN  
EAST LANSING  
CAPITAL AREA TRANSPORTATION AUTHORITY  
EAST LANSING MULTIMODAL TRANSIT CENTER

SHEET 11  
OF 12  
DRAWING NUMBER  
C6.0

DLZ MICHIGAN, INC.

CIVIL  
STANDARD DETAILS

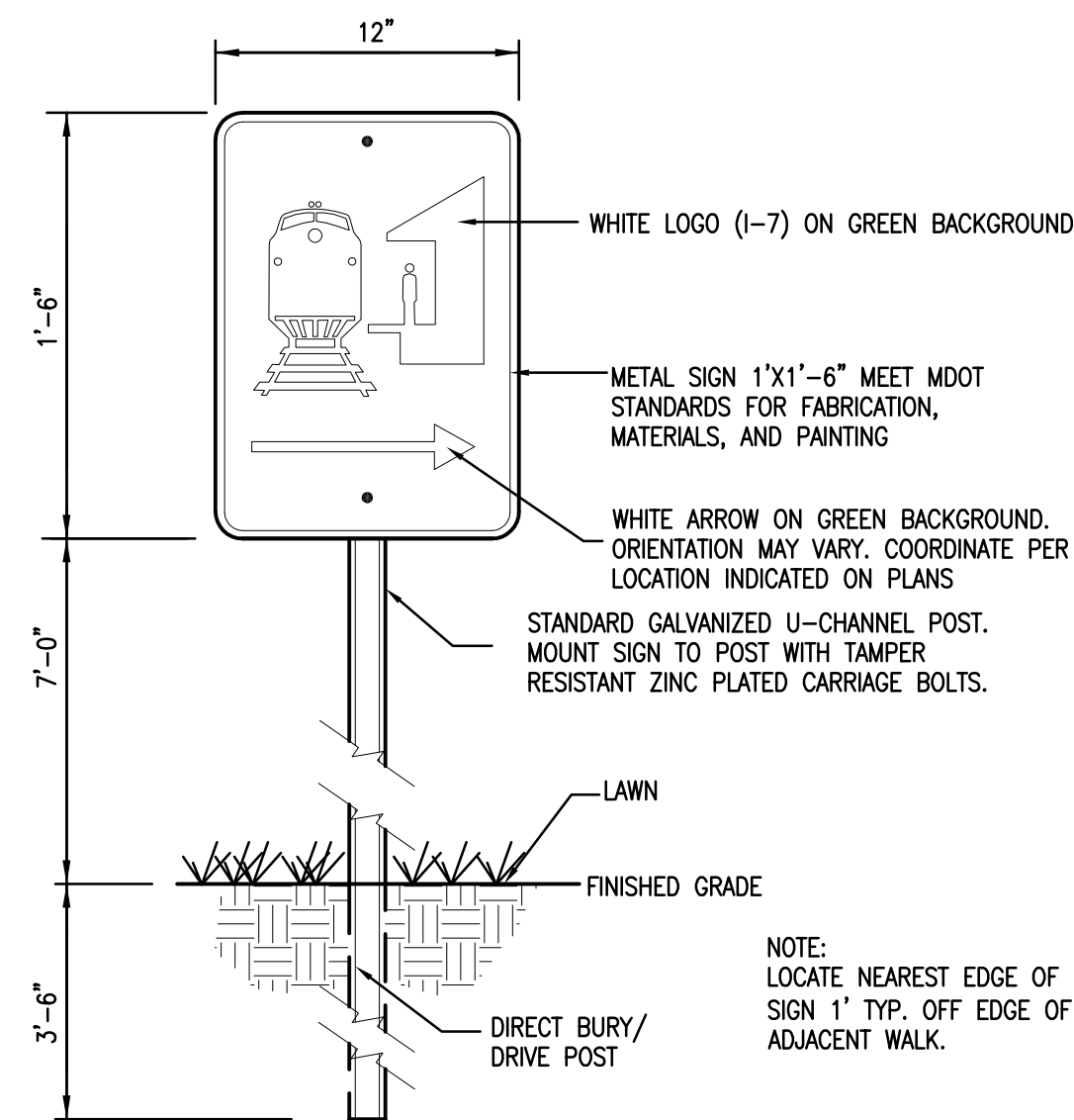


ELEVATION

**REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY DETAIL**

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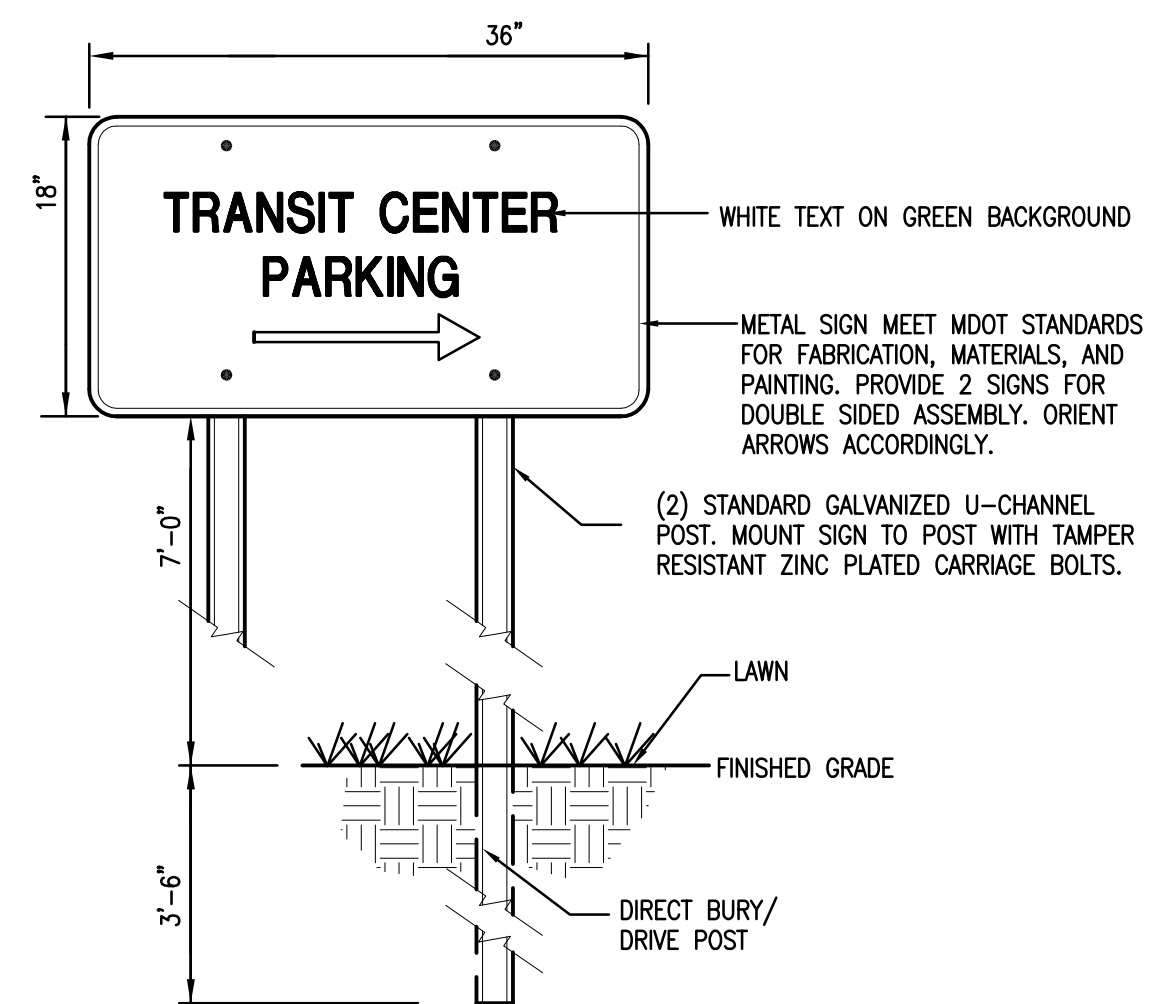
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**ROUTE TO RAIL BOARDING AREA SIGNAGE**

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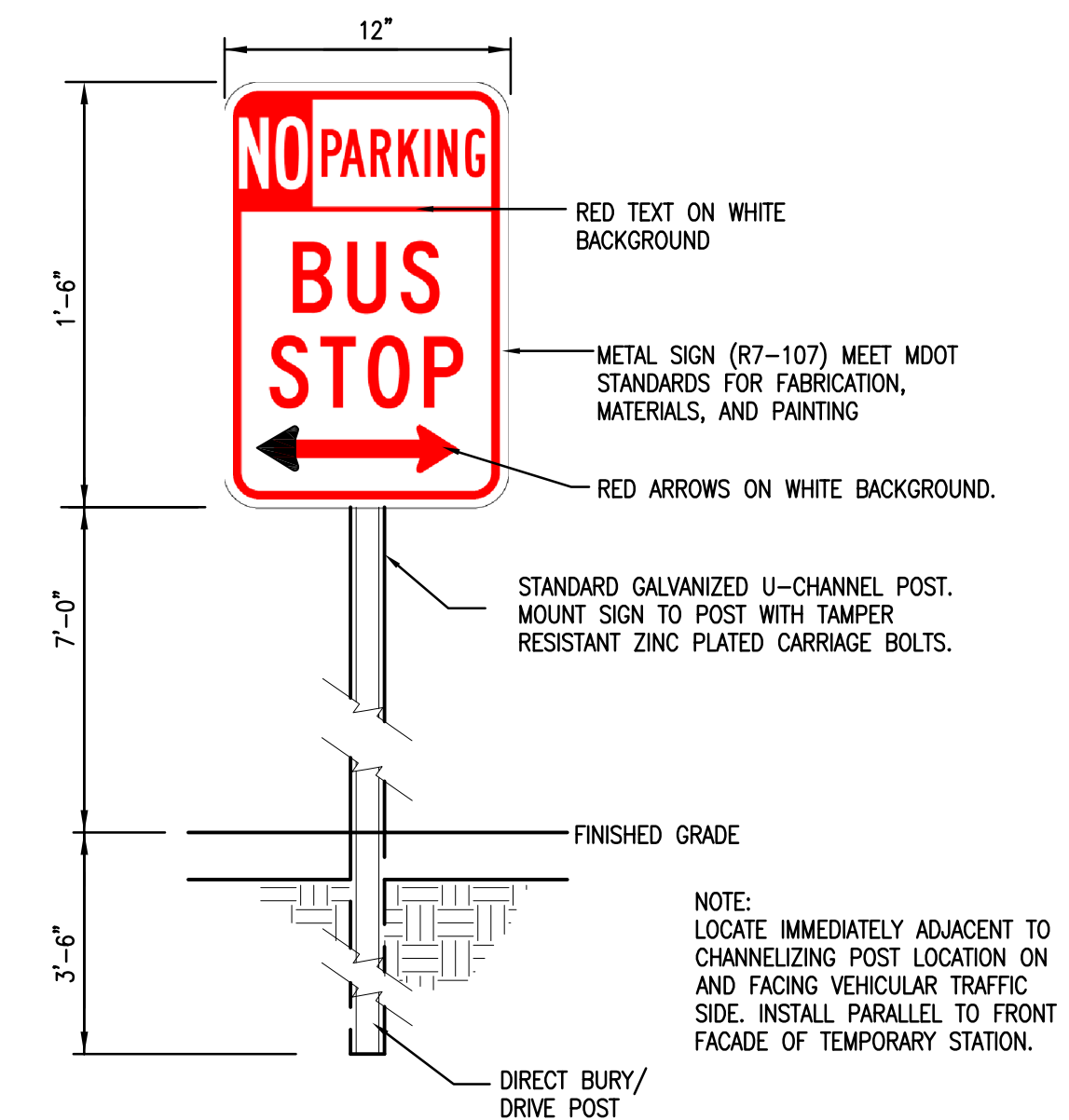
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C6.1



**TRANSIT PARKING SIGNAGE**

SCALE: N.T.S.

3  
C6.1



**BUS LOADING ZONE SIGNAGE**

SCALE: N.T.S.

4  
C6.1