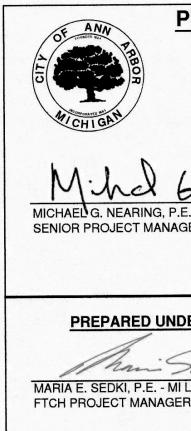


	SHEET LIST TABLE		SHEET LIST TABLE		5-8		
SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE		ARBO	R	ICAN
1	COVER SHEET	13	MAINTENANCE OF TRAFFIC PLAN II - LOT M29		10	5	MICHI
2	NOTES, LEGEND AND CONTACTS	14	MAINTENANCE OF TRAFFIC PLAN III - OFF-SITE WATER SOURCE LOCATION AND HAUL ROUTE		- II	5	/
3	NATURAL FEATURES PROTECTION PLAN	15	MAINTENANCE OF TRAFFIC PLAN IV - CLEANING, TELEVISING, AND LINING AT MH 71-70049				
4	TREE SURVEY	16	MAINTENANCE OF TRAFFIC PLAN V - CLEANING AND TELEVISING AT MH 71-69893		_		
5	OVERALL PLAN	17	MISCELLANEOUS DETAILS I				
6	PLAN AND PROFILE - STA. 1+00 TO 10+50	18	MISCELLANEOUS DETAILS II		SIPHON REHABILITATION		
7	PLAN AND PROFILE - STA. 10+50 TO 20+50	19	CHAMBER ROOF REPLACEMENT DETAILS	VIN	ABILIT		
8	PLAN AND PROFILE - STA. 20+50 TO 30+65	20	SOIL EROSION AND SEDIMENTATION CONTROL NOTES		REH		
9	ENLARGED SITE PLANS	21	SOIL EROSION AND SEDIMENTATION CONTROL PLAN - STA. 1+00 TO STA. 20+50		NOH	SHEET	
10	SANITARY FLOW DIVERSION AND BYPASS PUMPING PLAN I	22	SOIL EROSION AND SEDIMENTATION CONTROL PLAN - STA. 20+50 TO 30+65			ER SH	
11	SANITARY FLOW DIVERSION AND BYPASS PUMPING PLAN II	23	SOIL EROSION AND SEDIMENTATION CONTROL DETAILS	4	- C	COVER	
12	MAINTENANCE OF TRAFFIC PLAN I - OVERALL SITE	24 - 34	UNIVERSITY OF MICHIGAN HOSPITAL REPLACEMENT PROJECT RECORD DRAWINGS		RETUM SEWER AND		
	DE ANN DE OF ANN TEO OF ANN	ROJECT	MANAGEMENT SERVICES UNIT		- PUBLIC		
	Michaelig. Nearing, P.E Senior Project Manage PREPARED UND MARIA E. SEDKI, P.E MI FTCH PROJECT MANAGER		10/18/2016 DATE	LEER'S SEAL ENGINEER'			DRAWING No. 2016-026-C1
			10/18/2016 DATE	ENC			34



### NOTES:

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR, THE UNIVERSITY OF MICHIGAN, AND FTCH ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS

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### **CONSTRUCTION NOTES:**

- 1. ALL WORK SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION AS APPLICABLE.
- 2. DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY, AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- 3. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LEADS AS DEPICTED ON THE PLANS ARE APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND DETERMINE THE PRECISE HORIZONTAL AND VERTICAL LOCATION OF THESE UTILITIES. THE CONTRACTOR SHALL REPORT IN WRITING ANY CONFLICTS SO THAT THE ENGINEER MAY DETERMINE AN APPROPRIATE COURSE OF ACTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED CONTRACT ITEMS OF WORK. ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AS NECESSARY.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DELAYS, DAMAGES, COSTS AND/OR CHARGES INCURRED DUE TO AND/OR BY REASON OF ANY UTILITY, STRUCTURE, FEATURES AND/OR SITE CONDITION, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT ITS SOLE EXPENSE, TO AS GOOD OR BETTER CONDITION, ANY AND ALL UTILITIES, STRUCTURES, FEATURES AND/OR SITE CONDITIONS WHICH ARE IMPACTED BY REASON OF THE WORK, OR INJURED BY ITS OPERATIONS, OR DURING THE OPERATIONS OF ITS SUBCONTRACTORS OR SUPPLIERS.
- 5. NO EXTRA PAYMENTS OR ADJUSTMENTS TO UNIT PRICES WILL BE MADE FOR DAMAGES, DELAYS, COSTS AND/OR CHARGES DUE TO EXISTING UTILITIES, STRUCTURES, FEATURES AND/OR SITE CONDITIONS NOT SHOWN OR BEING INCORRECTLY SHOWN OR REPRESENTED ON THE PLANS.
- 6. DURING NON-WORKING HOURS ANY OPEN TRENCH, EXCAVATION OR SANITARY STRUCTURE SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING AND TEMPORARY COVER. TEMPORARY COVER(S) OVER SANITARY CHAMBERS SHALL BE CAPABLE OF WITHSTANDING THE WEIGHT OF A HUMAN/DEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".
- 7. SIGNIFICANT TREES EXIST IN ALL AREAS WITHIN THE PROJECT LIMITS. ALL TREES SHALL BE PRESERVED AND PROTECTED AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS, UNLESS OTHERWISE SHOWN FOR REMOVAL.
- 8. THE CONTRACTOR SHALL BACKFILL TRENCHES OR EXCAVATIONS IN ACCORDANCE WITH TRENCH DETAIL(S) SPECIFIED ON PLANS. THIS WORK WILL NOT BE CONSIDERED ADDITIONAL AND SHALL BE INCLUDED IN THE APPROPRIATE ITEM OF WORK.
- 9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO E. MEDICAL CENTER DRIVE, LOT M29, THE ARBORETUM, NICHOLS DRIVE AND THE CARETAKER'S RESIDENCE THROUGHOUT THE COURSE OF CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- 10. ALL CASTINGS AND FITTINGS REMOVED DURING CONSTRUCTION ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR, WITHIN 48 HOURS, SHALL DELIVER THEM TO THE CITY OF ANN ARBOR W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA AND APPROACHES TO PROJECT SITE, UNTIL THE FINAL COMPLETION OF THE PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY. BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY ROAD SURFACE. NICHOLS DRIVE WITHIN THE CONSTRUCTION AREA AND APPROACHES TO PROJECT SITE. AND FEATURES WITHIN THE ARBORETUM. UNTIL THE FINAL COMPLETION OF THE PROJECT. ANY DAMAGE TO EXISTING ROAD SURFACES, STRUCTURES, AND/OR FEATURES WITHIN THE PROJECT LIMITS AND APPROACHES TO PROJECT SITE, SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".
- 13. THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS TO BE APPROVED BY THE ENGINEER. ANY MATERIALS STOCKPILED OR STORED SHALL NOT CREATE AN EROSION PROBLEM, INTERFERE WITH DRAINAGE, OR CREATE INSUFFICIENT SIGHT DISTANCE.
- 14. EXISTING STREET NAME, GUIDE, REGULATORY SIGNS, MAILBOXES, ETC., WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS."

### **DESCRIPTION OF SITE AND EXPECTED BEHAVIOR:**

NICHOLS ARBORETUM (THE ARBORETUM) IS 123 ACRE PARCEL OF LAND THAT IS JOINTLY OWNED BETWEEN THE UNIVERSITY OF MICHIGAN AND THE CITY OF ANN ARBOR. THE ARBORETUM IS COMPRISED OF SEVERAL DIFFERENT BOTANICAL AREAS CONSISTING OF VARIOUS TYPES OF GROUND COVER, NATIVE PRAIRIE AREAS, WETLANDS, WOODLANDS, AND THE HURON RIVER. THERE ARE HUNDREDS OF DIFFERENT AND UNIQUE TYPES OF PLANTS, TREES. AND WILDLIFE CONTAINED WITHIN THE ARBORETUM. ALSO, THERE ARE WALKING TOURS, SPECIAL EVENTS, AND SEVERAL OTHER USES OF THE ARBORETUM ON A DAILY AND WEEKLY BASIS. CONSEQUENTLY, THE AREA SURROUNDING THE WORK AREA IS TO BE PRESERVED TO THE GREATEST EXTENT POSSIBLE.

TO THIS END. THE CONTRACTOR AND THEIR FORCES WILL NOT BE ALLOWED TO PARK VEHICLES INDISCRIMINATELY ALONG NICHOLS DRIVE OR OTHER AREAS OF THE ARBORETUM, DISTURB AREAS THAT ARE NOT DIRECTLY IMPACTED BY THE CONSTRUCTION, LITTER, OR OTHERWISE DAMAGE THE PREMISES. THE CONTRACTOR'S EMPLOYEES ARE EXPECTED TO RESPECT THE AREA AND ALL ITS USERS. DISORDERLY OR INTEMPERATE EMPLOYEE BEHAVIOR WILL NOT BE TOLERATED AND MAY RESULT IN THE EMPLOYEE'S REMOVAL FROM THE JOBSITE.

THE CONTRACTOR IS EXPECTED TO WORK IN A HARMONIOUS MANNER WITH THE USERS OF THE ARBORETUM, CITY OF ANN ARBOR AND UNIVERSITY OF MICHIGAN STAFF, AND THE PUBLIC IN GENERAL.

SHRUBS

CONIFEROUS TREE

LANE CLOSUI

**GRADING/SOI** CONTROL PE **RIGHT-OF-WA** 

PUBLIC

WATER

SANITARY

STORM

FORESTRY

SIGNS SIGNALS STREET LIGHTS

PRIVAT GAS

ELECTRIC

CABLE

PHONE

FIBER OPTIC

## TOPOGRAPHY – PLAN

## EXISTING UTILITIES

8" SAN. \_\_\_\_\_\_ SANITARY SEWER & MANHOLE

CATCH BASIN CURB TYPE

CATCH BASIN LAWN TYPE

TELEPHONE PEDESTAL

PIPE-ONLY CULVERT

HEADWALL CULVERT

FLARED END SECTION CULVERT

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 $\square$   $\square$   $\square$ 

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o\_\_\_\_ (832.56)

12" CSP □ = = = = = \_\_\_\_\_CSP 

$\left\{\cdot\right\}$	DECIDUOUS TREE		PAVED SURFACE
	HEDGE EDGE OF WOODS		EXISTING CURB & GUTTER
	WETLANDS		PROPOSED CURB & GUTTER
	EXISTING DITCH	O	CONCRETE MONUMENT
		0	PROPERTY IRON
	PROPOSED DITCH	٠	SET PROPERTY IRON
	EDGE OF WATER		LOT LINE (AS PLATTED)
*	LIGHT	Z	PROPERTY HOOK (COMMON PROPERTY OWNERSHIP)
———	GUY ANCHOR		TITLE LINE / PROPERTY LINE
-	UTILITY POLE	ROW_LINE_	ROW LINE
$\triangleright$	SIGN		SECTION LINE
00	GUARD RAIL	$\bigtriangleup$	BENCH MARK
×	EXISTING FENCE	-\$-	SECTION CORNER
——×>——	SILT FENCE	·	
	REGULATORY FLOODWAY		CENTER OF SECTION
· ·	100-YEAR FLOODWAY	- <b>\$</b> -	QUARTER CORNER
	CLEARING LIMITS		SOIL TYPE BOUNDARY

\_\_\_\_\_×\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ GRAVEL SURFACE

PROPOSED FENCE (PROTECTIVE, SAFETY, CONSTRUCTION)

## PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR **PRIOR TO THE BEGINNING OF CONSTRUCTION.**

PERMIT	ISSUING AUTHORITY
IRE PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
IL EROSION & SEDIMENTATION RMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
AY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO	CONTRACTOR

## **CONTACT INFORMATION**

IC UTILITIES	OWNER	CONTACT
		DAN WOODEN (734) 794–6350
		MARK COZART (734) 794–6350
	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER	MATT WALDSMITH (734) 794–6350
	4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	STEVEN GOEBEL (734) 794–6350
S		CHUCK FOJTIK (734) 794–6361
TE UTILITIES	OWNER	CONTACT
	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544–7818
	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397–4112
	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999–8300
	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996–2135
	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729–6016

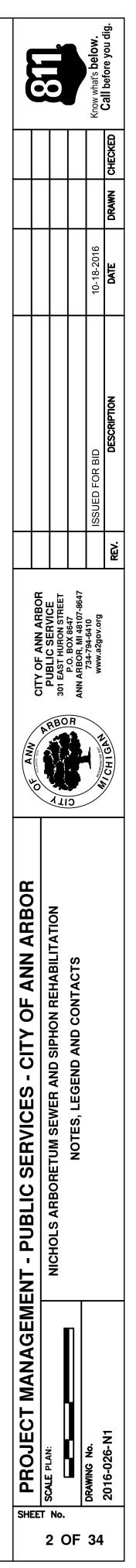
## PROPOSED UTILITIES

## MISCELLANEOUS

SAN.	SANITARY SEWER & MANHOLE		EASEMENT CENTERLINE
			EASEMENT LINE
	STANDARD SEWER CLEANOUT		
		<u> </u>	SURVEY LINE STATIONING
	MAX. ELEVATION OF LOT LEAD AT PROPERTY LINE	Δ	TRAVERSE POINT
ГМ.	STORM SEWER & MANHOLE		
		۲	SOIL BORING LOCATION
●	CATCH BASIN		
	PLUG	855.00	PROPOSED PAVEMENT/GUTTER ELEVATION
			PROPOSED PAVEMENT MARKING (PAINTING)
	PIPE-ONLY CULVERT	Ŷ	PROPOSED BARRIER FREE
~		<u>گر</u>	PROPUSED BARRIER FREE PARKING
٦	FLARED END SECTION CULVERT	——————————————————————————————————————	SILT FENCE
<u> </u>	HEADWALL CULVERT		

LATERAL BYPASS PUMP DISCHARGE CASING PIPE

AGGREGATE COVER



## NATURAL FEATURES PROTECTION PLAN

1.PROJECT PURPOSE

- 1.1. THE NICHOLS ARBORETUM SANITARY SEWER CONVEYS WASTEWATER FROM THE CITY OF ANN ARBOR, THE UNIVERSITY OF MICHIGAN HOSPITAL, SURROUNDING COMMUNITY, BUSINESSES AND OTHER UNIVERSITY FACILITIES. THIS PORTION OF SANITARY SEWER IS DIFFICULT TO ACCESS AND MAINTAIN. PRELIMINARY INSPECTION SHOWED THAT SEVERAL MANHOLES AND STRUCTURES ARE SEVERELY CORRODED, STRETCHES OF SEWER CONTAIN CONSIDERABLE SEDIMENT AND ONE OF THE TWO 24-INCH SIPHONS IS COMPLETELY PLUGGED AND INOPERABLE.
- 1.2. THE NICHOLS ARBORETUM SANITARY SEWER AND SIPHON REHABILITATION PROJECT IS ESSENTIAL TO MAINTAINING THE INTEGRITY OF THE CITY OF ANN ARBOR'S INFRASTRUCTURE, ELIMINATING SUSCEPTIBILITY OF LEAKING JOINTS, COLLAPSING PIPES AND SANITARY SEWER OVERFLOWS (SSOs) TO
- THE ADJACENT PARK AND HURON RIVER. 1.3. PRESERVING THE NATURAL FEATURES AND RECREATIONAL AESTHETIC OF THE NICHOLS ARBORETUM TO MAXIMUM EXTENT POSSIBLE WAS A CRITICALLY IMPORTANT CONSIDERATION IN EVERY STAGE OF THE PROJECT'S DESIGN.

2.SEE TREE SURVEY INVENTORY ON SHEET 4 IDENTIFYING LOCATION, TYPE AND CONDITION OF EACH TREE (ABOVE 6") WITHIN THE AREA OF WORK.

3. ADDITIONAL NATURAL FEATURES LOCATED WITHIN THE PROJECT LIMITS INCLUDE:

3.1. WETLANDS (MARKED WETLAND A THROUGH F)

- 3.2. WATERCOURSE (HURON RIVER) 3.3. ENDANGERED SPECIES HABITAT.
- 3.3.1. RARE SPECIES REVIEW #1830 WAS CONDUCTED TO CHECK THE PROJECT LOCATION AGAINST THE MICHIGAN NATURAL FEATURES INVENTORY NATURAL HERITAGE DATABASE. 3.3.2. FIELD SURVEY WAS CONDUCTED BY THE UNIVERSITY OF MICHIGAN AND NO THREATENED AND
- ENDANGERED SPECIES WERE FOUND TO BE PRESENT WITHIN PROJECT LIMITS.
- 3.4. STEEP SLOPES

4.NATURAL FEATURES PROTECTION PLAN:

- 4.1. TREES: 4.1.1. ALL TREES ARE TO BE PRESERVED AND PROTECTED UNLESS SHOWN OTHERWISE ON THE PLANS AND INDICATED IN THE TREE SURVEY.
- 4.1.2. TREE PROTECTION DETAILS ARE SHOWN ON SHEET 23 AND FURTHER DESCRIBED IN THE SPECIFICATIONS. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PRESERVE TREES MARKED TO BE PROTECTED.
- 4.2. WETLANDS:

4.2.1. WETLANDS A, B, C, D, E AND F ARE TO BE PRESERVED IN ACCORDANCE WITH THE SPECIFICATIONS AND WETLAND PROTECTION DETAILS. ALL CONSTRUCTION ACTIVITY SHALL BE

- PERFORMED TO AVOID IMPACTING THESE WETLANDS UNLESS OTHERWISE SHOWN ON THE PLANS. 4.2.2. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PRESERVE ALL WETLANDS. 4.3. HURON RIVER WATERCOURSE:
- 4.3.1. THE RIVER SHALL BE PROTECTED AT ALL TIMES FROM THE IMPACTS OF CONSTRUCTION ACTIVITIES.4.3.2. SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES CALLED FOR IN THE SESC PLANS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT TO CONTROL MIGRATION OF SILT, SEDIMENT AND OTHER DEBRIS MIGRATING TO THE RIVER.
- 4.3.3. BYPASS PUMPING OPERATIONS SHALL INCLUDE DAILY INSPECTION OF DISCHARGE PIPING INTEGRITY AND CONTAINMENT FOR DIESEL GENERATOR/PUMPS, AS REQUIRED.

	<b>2 PROJECT MANAGEME</b>	ANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	AMA							
-			O FOUNDED JUZZA	CITY OF ANN ARBOR						
3										
	No	NICHOLS ARBORETUM SEWER AND SIPHON REHABILITATION		301 EAST HURON STREET						Ĵ
				D D BOY 8647						
F		NATURAL FEATURES PROTECTION PLAN		ANN ARBOR. MI 48107-8647						
	DRAWING NO.			734-794-6410						
34			M. McOHPORATED 1851	www.a2gov.org	_	ISSUED FOR BID	10-18-2016			Know what's <b>Delow</b>
•	2016-026-NF-1		CHIGA		2	DESCRIPTION	DATE	DRAWN	DRAWN CHECKED	Call before you dig.

Number         Social/fic Name         Common Name         Height (index)           71-68865         3400         Oueraid rubido         Northerm red dait         7.5           1411         Oueraid rubido         Northerm red dait         7.2           1413         Oueraid rubido         Northerm red dait         7.2           1413         Oueraid rubido         Northerm red dait         7.2           1413         Oueraid rubido         Northerm red dait         7.2           1414         Populas olelaulidos         Castern nottom work         7.2           1415         Oueraid rubido         Northerm red dait         3.0           1416         Acter oldonovideo         Northerm red dait         3.0.1           1417         Cargo overta         Northerm red dait         3.0.1           1418         Amelonchier orborer         Northerm red dait         3.0.1           1411         Populas oblobales         Castern outbrowood         7.0.4           1412         Amelonchier orborer         Downy serviceberry         1.1.6           1413         Amelonchier orborer         Downy serviceberry         1.1.1           1414         Nia amelonia         Amelonchier         1.2.5           1413         <		Diameter at Breast			Tree Tag	Ann Arbor, I Manhole
1430         Quercos nobra         Norther med oak         7.3           1412         Quercos nobra         Norther med oak         9.2.3           1413         Quercos nobra         Norther med oak         9.2.3           1414         Populus deficibles         Fastam contronwood         23.0           17.4074.         1434         Populus deficibles         Fastam controwood         23.0           1417         Grayo outio         Shaghari hickkory         9.3         1           1418         Ameloncher obore         Downy serviceberry         10.6         1           1419         Quercos notro         Norther med oak         30.0         1           1422         Populus deficides         Eastem controwood         30.4         1           1423         Ameloncher obore         Downy serviceberry         11.6         1           1424         Populus deficides         Eastem controwood         14.3         1           1422         Populus deficides         Eastem controwood         14.3         1           1423         Madonicker obore         Downy serviceberry         1.1         1           1424         Maeloncker obore         Downy serviceberry         1.1         1         1	Tree Conditio		Common Name	Scientific Name	•	
1411         Duercus rubra         Norther m ed oak         9.2           1413         Duercus rubra         Norther m ed oak         9.2           1414         Appute debider         Extern cattonwood         23.0           1415         Dead         Extern cattonwood         23.0           1416         Are platonoides         Nortway maple         9.2           1417         Caryo avota         Shağart hickory         9.3           1418         Ameranchier abora         Down yer noberry         17.6           1419         Obercus rubra         Northern m d ak         30.0           1422         Pogulus debulge         Extern cattonwood         23.4           1422         Pogulus debulge         Extern cattonwood         12.5           1423         American basswood         14.3, 6.9         14.3, 6.9           1424         Tile americana         American basswood         14.3, 6.9           1425         American basswood         6.6, 8.0         14.3, 6.9           1430         Populus debalde         Extern cattonwood         47.9           1431         Ifia americana         American basswood         13.3           1432         Ifia americana         American basswood         13.4	1					71-68806
1412         Durcasa nahra         Northern red oak         9.2           1413         Ourcasa nahra         Northern red oak         7.4           1415         Dead         Statern cottamwood         23.0           1415         Dead         Norway maple         9.2           1416         Aren pottonoides         Norway maple         9.2           1414         Annelanchier arbora         Downy serviceberry         17.6           1419         Ouercas robra         Northern red oak         3.0.0           1412         Papubrs defolder         Estern cottamwood         20.4           1422         Papubrs defolder         Estern cottamwood         20.4           1423         Annelanchier arbora         Downy serviceberry         11.6           1424         Tile americana         American basswood         12.5         14.1           1427         Amelanchier arbora         Downy serviceberry         9.1         14.1           1427         Amelanchi basswood         12.5         14.1         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.3         14.	1	1				-
1413         Derecus outro         Northern ned oak         7.4           14.9254/         1415         Deval         Extern cohorowood         23.0           14.9557         1415         Deval         Extern cohorowood         23.0           14.915         Deval         Nervay maple         9.2           14.916         Acer plot moldes         Nervay maple         9.2           14.917         Cory a vario         Northern red oak         30.0           14.918         Amedian-berobace         Downy serviceberry         11.6           14.91         Depuiss detoides         Eastern cottonwood         20.4           14.92         Popuiss detoides         Eastern cottonwood         12.5           14.22         Popuiss detoides         Eastern cottonwood         12.5           14.24         Thia americana         American basswood         14.3         13.4           14.24         Meadenche orboreo         Downy serviceberry         13.1           14.23         Acer negunda         Bos-eller         7.2         14.3           14.34         Umu correctora         American basswood         13.3         14.4           14.35         Umu correctora         American basswood         13.4	<u> </u>			,		-
14.9927         1413         Dead         norway maple         19.2           1412         Carya ovata         Shagbark hickkory         19.2           1418         Amelanchier arbora         Downs vertrate environe         10.6           1419         Carya ovata         Shagbark hickkory         19.2           1418         Amelanchier arbora         Northern red oxk         30.0           1420         Objects rubar         Northern red oxk         30.0           1421         Popolar debtoides         Eastern cortonwood         10.1           1423         Amelanchier orbora         Downs serviceberry         11.6           1424         Tilia armerican         American basswood         14.3         5.1           1426         Are neguruba         Box elfer         7.2         1.4           1427         Amelanchier orbora         Downs serviceberry         19.1         1.6           1438         Inia armerican         American basswood         1.6         1.4           1431         Unia armerican         American basswood         1.3         1.4           1432         Tilia armerican axisowad         1.0         1.1         1.4           1433         Tilia armerican axisowad         1	1					
1415         Acer pictanoles         Nerway maple         9.2           1412         Carya overlo         Shagba't hicksory         9.3           1413         Amelionhier orborea         Downy serviceberry         11.6           1419         Guercas rubra         Northem red oak         34.0           1422         Populus delovides         Eastern coltonwood         20.4           1422         Populus delovides         Eastern coltonwood         20.4           1423         Amelonchier orbora         Downy serviceberry         11.6           1424         Populus delovides         Eastern coltonwood         12.5           1425         Ilia camericana         American basswood         14.3, 6.9           1426         Amelonchier arbarca         Downy serviceberry         9.1           1427         Amelorahier arbarca         Downy serviceberry         9.1           1428         Acer megundo         Box elder         7.2           1429         Tilia camericana         American basswood         6.6, 8.0           1431         Umas americana         American basswood         13.7           1432         Tilia camericana         American basswood         13.4           1433         Dara arbarcana	1		Eastern cottonwood			· -
1417         Carge outat         Shaghat kickkey         9.3           1419         Quercus rubra         Northern red oak         30.0           1420         Quercus rubra         Northern red oak         14.1           1421         Populus dektaides         Eastern cottanwood         20.4           1422         Populus dektaides         Eastern cottanwood         20.4           1422         Amelanchier arborea         Downy serviceberry         11.6           1424         Tilia americana         American basswood         12.5           1425         Tilia americana         American basswood         12.5           1426         Amelanchier arborea         Downy serviceberry         9.1           1427         Amelanchier arborea         Downy serviceberry         9.1           1438         Acer regundo         Box eller         7.2           1439         Tilia americana         American basswood         21.3           1431         Ultima smericana         American basswood         21.3           1432         Tilia americana         American basswood         10.7           1433         Ottya viginiana         Eastern hop-hornbearn         10.0           1434         Tilia americana         Amer	3					71-69257
1438         Amelandher arborad         Downy serviceberry         11/6           1420         Guercus rubra         Northern red oak         30.0           1421         Populus deboldes         Eastern cottonwood         20.4           1422         Populus deboldes         Eastern cottonwood         20.4           1423         Amelandher arborad         Dewny serviceberry         11.6           1424         Tita americana         American basswood         14.5, 5.9           1425         Tita americana         American basswood         14.5, 5.9           1426         Amelanchier arborad         Dewny serviceberry         9.1           1427         Amelanchier arborad         Dewny serviceberry         9.1           1428         Aram eganda         Basselder         7.2           1420         Populus deboldes         Eastern nochamood         47.9           1431         Uhrua americana         American basswood         13.3           1432         Tita americana         American basswood         13.4           1438         Tita americana         American basswood         13.7           1433         Tita americana         American basswood         13.7           1434         Ottrya virginiana	<u> </u>					-
1420         Dopulus definities         Estern cottonwood         20.4           1421         Populus definities         Estern cottonwood         20.4           1423         Amelanchier arborea         Downy serviceberry         11.5           1424         Ilia americana         American basswood         12.5           1425         Tila americana         American basswood         13.4           1426         Antelanchier arborea         Downy serviceberry         9.1           1428         Acer negurbo         Box elder         7.2           1430         Populus definides         Eastern cottonwood         47.9           1431         Ultura omericana         American basswood         6.6, 8.0           1433         Iltia americana         American basswood         2.1           1433         Iltia americana         American basswood         8.0           1434         Tila americana         American basswood         8.0           1435         Tila americana         American basswood         8.0           1436         Ortyo vigniana         Easter in hon-hornbeam         16.0           1436         Ortyo vigniana         Easter in hon-hornbeam         8.6.1           1440         Quercus rubra	1			,		
1421         Populus detable:         Existem cottonwood         10.1           1422         Populus detable:         Existem cottonwood         10.1           1424         Tiba americane         American basswood         12.5           1425         Tiba americane         American basswood         12.5           1426         Amelanchier arboreo         Downy serviceberry         14.1           1427         Amelanchier arboreo         Downy serviceberry         14.1           1428         Azer negundo         Box-teller         7.2           1429         Tiba americane         American basswood         47.9           1431         Olmus americane         American basswood         13.3           1432         Tiba americane         American basswood         13.4           1433         Tiba americane         American basswood         13.4           1434         Tiba americane         American basswood         10.7           1435         Tiba americane         American basswood         10.7           1435         Tiba americane         American basswood         10.7           1435         Ottrya wigninane         Existem hop-hombeam         16.0           1440         Ouerus rubra         Northem	1					
1422         Populus defabiles         Extern cottonwood         15.1           1423         Amelanchier arborea         Downy serviceberry         11.6           1424         Tila americana         American basswood         12.5           1425         Tila americana         American basswood         13.5, 6.5           1426         Amelanchier arborea         Downy serviceberry         9.1           1428         Acer regunda         Box elder         7.2           1429         Tila americana         American basswood         66, 8.0           1431         Ulnus americana         American basswood         13.3           1432         Tila americana         American basswood         13.4           1433         Ulnus americana         American basswood         13.4           1434         Tila americana         American basswood         13.4           1435         Tila americana         American basswood         13.4           1436         Tila americana         American basswood         13.4           1437         Ostryo virginiana         Eastern hop-hornbeam         16.0           1438         Ostryo virginiana         Eastern hop-hornbeam         16.1           1440         Quercus rubra	1	+				-
1423         Amelianchier arborea         Downy seviceberry         11.6           1424         Tilia americana         American basswood         12.5           1425         Tilia americana         American basswood         12.5           1426         Amelanchier arborea         Downy seviceberry         14.1           1427         Amelanchier arborea         Downy seviceberry         9.1           1428         Acer negundo         Box-elder         7.2           1430         Populus deltaider         Eastern cattonwood         47.9           1431         Ulmus americana         American basswood         13.3           1432         Tilia americana         American basswood         13.4           1433         Tilia americana         American basswood         13.4           1434         Tilia americana         American basswood         10.7           1435         Tilia americana         American basswood         10.7           1438         Ostryo virginiana         Eastern hop-hornbeam         16.0           1438         Ostryo virginiana         Eastern hop-hornbeam         8.6,6.1           1441         Quercus rubra         Northern withe oak         8.4           1442         Quercus rubra	<u> </u>			•		-
1425 <i>Hio omericana</i> Amerian basswood         14.3.6.9           1426 <i>Amelanchier arborea</i> Downy serviceberry         14.1           1427 <i>Amelanchier arborea</i> Downy serviceberry         9.1           1428 <i>Acer negunda</i> Bax-clifer         7.2           1429 <i>Tila americana</i> American basswood         6.6, 8.0           1430 <i>Papulus deliolites</i> Eastern cottonwood         47.9           1431 <i>Ulius americana</i> American basswood         13.3           1432 <i>Tilia omericana</i> American basswood         13.4           1435 <i>Tilia omericana</i> American basswood         10.7           1435 <i>Tilia omericana</i> American basswood         10.7           1435 <i>Tilia omericana</i> American basswood         10.7           1438 <i>Ostrya virginiana</i> Eastern hop-hombeam         16.0           1439 <i>Celis occidentaris</i> Hackberry         15           1440 <i>Quercus rubra</i> Northern wells aak         16.7           1441 <i>Quercus rubra</i> Northern red oak         11.1           1444 <i>Quercu</i>	1			· ·		
1426         Amelanchier arborea         Downy serviceberry         14.1           1427         Amelanchier arborea         Downy serviceberry         9.1           1429         Net equado         Box-elder         7.2           1429         Tilla omericana         American basswood         6.6,8.0           1430         Populus debaides         Eastern cottonwood         47.9           1431         Ullus americana         American basswood         13.9           1433         Tilla omericana         American basswood         8.0           1435         Tilla omericana         American basswood         13.4           1436         Tilla omericana         American basswood         10.7           1437         Ostrya virginiana         Eastern hop-hornbeam         16.0           1438         Ostrya virginiana         Eastern hop-hornbeam         8.9, 6.1           1438         Ostrya virginiana         Eastern hop-hornbeam         8.9, 6.1           1441         Quercus arbar         Northern red oak         16.5           1443         Acer sarcharum         Sugar maple         7.3           1444         Quercus arbar         Northern red oak         11.1           1445         Purus seratina	1	12.5	American basswood	Tilia americana	1424	
1427         Amelanchier arborea         Downy serviceberry         9.1           1428         Acer negundo         Box-elder         7.2           1429         Tilla amerikana         American basswood         66, 8.0           1430         Populus deltoides         Eastern cottonwood         47.9           1432         Tilla amerikana         American basswood         21.3           1433         Tilla amerikana         American basswood         13.0           1434         Tilla amerikana         American basswood         13.0           1435         Tilla amerikana         American basswood         13.0           1437         Ostrya virginiana         Eastern hop-hornbeam         16.0           1438         Ostrya virginiana         Eastern hop-hornbeam         15.0           1440         Quercus rubra         Northern wel toak         26.3           1441         Quercus rubra         Northern wel toak         17.6           1442         Quercus rubra         Northern red toak         16.7           1443         Acer soccharum         Sugar mapie         7.3           1444         Quercus rubra         Northern red toak         16.1           1444         Quercus rubra         Northern red	1					-
1428         Accr negundo         Box-elder         7.2           1429         Tilio americana         American Basswood         6.6, 8.0           1430         Populus delvides         Eastern cottonwood         47.9           1431         Ulmus americana         American basswood         12.3           1433         Tilia omericana         American basswood         13.9           1434         Tilia omericana         American basswood         10.7           1435         Tilia omericana         American basswood         10.7           1437         Ostryo vighinana         Eastern hop-hornbeam         8.9, 6.1           1438         Ostryo vighinana         Eastern hop-hornbeam         8.9, 6.1           1438         Ouercus subra         Northern red oak         26.3           1441         Quercus subra         Northern red oak         16.7           1442         Quercus subra         Northern red oak         11.1           1443         Accr saccharum         Sugar maple         7.3           1444         Quercus subra         Northern red oak         11.1           1444         Quercus subra         Northern red oak         11.2           1444         Tila omericana         American basswood	3		·			-
1429         Tilo omericana         American basswood         6.6, 8.0           1430         Papukus deholdes         Eastern cottonwood         47.9           1431         Ulmus mericana         American basswood         21.3           1432         Tila americana         American basswood         21.3           1434         Tila omericana         American basswood         8.0           1435         Tila omericana         American basswood         8.0           1435         Tila omericana         American basswood         10.7           1437         Oktryo virginiana         Eastern hop-hornbeam         16.0           1438         Ottryo virginiana         Eastern hop-hornbeam         8.9, 6.1           71-70048-         1439         Celtis occidentalis         Hackberry         15           1440         Quercus rubra         Northern welts oak         8.4         17.6           1442         Quercus rubra         Northern red oak         17.7         14           1444         Quercus rubra         Northern red oak         16.1         14           1444         Quercus rubra         Northern red oak         16.1         14           1445         Punus serotina         Black therry         6	1		· · · ·			
1431         Ulmus americana         American lasswood         21.3           1432         Tilla americana         American basswood         13.9           1433         Tilla americana         American basswood         13.9           1434         Tilla americana         American basswood         13.4           1436         Tilla americana         American basswood         13.4           1436         Citry aviginiana         Eastern hop-hornbeam         16.0           1437         Cotrya viginiana         Eastern hop-hornbeam         8.9, 6.1           17-0044         1439         Celtis occidentalis         Hackberry         15           1440         Quercus rubra         Northern red oak         16.7         23.4           1441         Quercus rubra         Northern red oak         16.7         23.4           1443         Acer saccharum         Northern red oak         16.7         23.4           1444         Quercus rubra         Northern red oak         16.1         23.4           1445         Puruus serotina         Black herry         6.5         14.4         14.4         14.4         14.4         14.4         14.4         14.4         14.4         14.4         14.5         14.5	2					
1432         Tilla americana         American basswood         21.3           1433         Tilla americana         American basswood         13.9           1434         Tilla americana         American basswood         8.0           1435         Tilla americana         American basswood         13.4           1436         Tilla americana         American basswood         10.7           1437         Ostryo virginiana         Eastern hop-hornbeam         16.0           1438         Cettro ocidentalis         Hackbery         15           1440         Quercus rubra         Northern red oak         26.3           1441         Quercus rubra         Northern red oak         17.6           1443         Acer saccharum         Sugar maple         7.3           1444         Quercus rubra         Northern red oak         11.1           1445         Prunus serotino         Black cherry         6.5           1446         Quercus rubra         Northern red oak         11.1           1447         Tila americana         American basswood         6.1           1444         Quercus rubra         Northern red oak         12.3           1445         Quercus rubra         Northern red oak         12.5 </td <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1					
1433         Tilla americana         American basswood         13.9           1434         Tilla americana         American basswood         8.0           1435         Tilla americana         American basswood         13.4           1436         Tilla americana         American basswood         10.7           1437         Ostrya virginiana         Eastern hop-hornbeam         16.0           1438         Ostrya virginiana         Eastern hop-hornbeam         8.9, 6.1           1439         Celtis ocidentalis         Hackberry         15           00050         1441         Quercus rubra         Northern red oak         12.6           1442         Quercus rubra         Northern red oak         16.7, 23.4         1444           1443         Aers saccharum         Sugar maple         7.3           1444         Quercus rubra         Northern red oak         16.7, 23.4           1445         Prunus serotina         Black herry         6.5           1444         Quercus rubra         Northern red oak         11.1           1447         Tila americana         American basswood         6.1           1445         Quercus rubra         Northern red oak         12.6           1445         Querc	1					-
1434         Tilla americana         American basswood         8.0           1435         Tilla americana         American basswood         13.4           1436         Tilla americana         American basswood         10.7           1437         Ostrya virginiana         Eastern hop-hornbeam         8.9,6.1           1438         Ostrya virginiana         Eastern hop-hornbeam         8.9,6.1           1439         Celts ocidentalis         Hackberry         15           1440         Quercus rubra         Northem red oak         26.3           1441         Quercus rubra         Northem red oak         17.6           1443         Acer saccharum         Sugar maple         7.3           1444         Quercus rubra         Northem red oak         11.7,6           1443         Acer saccharum         Sugar maple         7.3           1444         Quercus rubra         Northem red oak         11.1           1444         Quercus rubra         Northem red oak         11.1           1444         Tila americana         American basswood         6.1           1445         Quercus rubra         Northem red oak         11.2           1445         Quercus rubra         Northem red oak         12.6<	<u> </u>					
1435         Tilia americana         American basswood         13.4           1436         Tilio americana         American basswood         10.7           1437         Ostryo virginiana         Eastern hop-hombeam         16.0           1438         Ostryo virginiana         Eastern hop-hombeam         8.9,6.1           171-70048         1439         Celtis occidentalis         Hackberry         15           10050         1441         Quercus rubra         Northern red oak         8.4           1442         Quercus rubra         Northern red oak         17.6           1444         Quercus rubra         Northern red oak         16.7, 23.4           1444         Quercus rubra         Northern red oak         16.7, 23.4           1444         Prinus serotina         Black cherry         6.1           1445         Prinus serotina         American basswood         6.1           1446         Quercus rubra         Northern red oak         18.4           1450         Quercus rubra         Northern red oak         18.4           1451         Quercus rubra         Northern red oak         11.6           1452         Quercus rubra         Northern red oak         11.1           1453         P	1					-
1437         Ostrya virginiana         Eastern hop-hornbeam         16.0           1438         Ostrya virginiana         Eastern hop-hornbeam         8.9,6.1           71.70048-         1440         Quercus rubra         Northern red oak         26.3           1440         Quercus rubra         Northern red oak         26.3           1441         Quercus rubra         Northern red oak         8.4           1442         Quercus rubra         Northern red oak         16.7,23.4           1444         Quercus rubra         Northern red oak         16.7,23.4           1444         Quercus rubra         Northern red oak         16.1           1445         Prunus secotina         Black chery         6.5           1446         Quercus rubra         Northern red oak         11.1           1447         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1450         Quercus rubra         Northern red oak         15.6           1452         Quercus rubra         Northern red oak         15.6           1452         Quercus rubra         Northern red oak         15.6           1453         Quercus rubra	1					F
1438         Ostrya virginiana         Eastern hop-hornbeam         8.9, 6.1           71.70048-         1439         Celtis accidentalis         Hackberry         15           70050         1440         Quercus rubra         Northern red oak         26.3           1441         Quercus rubra         Northern white oak         8.4           1442         Quercus rubra         Northern red oak         17.6           1444         Quercus rubra         Northern red oak         16.7, 23.4           1444         Quercus rubra         Northern red oak         11.1           1444         Quercus rubra         Northern red oak         11.1           1444         Quercus rubra         Northern red oak         13.1           1444         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1451         Quercus rubra         Northern red oak         13.5           1452         Quercus rubra         Northern red oak         15.6           1453         Prunus serotina         Black cherry         14.1           1454         Prunus sero	1					
P1-70048         1439         Celtis accidentalis         Hackberry         15           1440         Quercus rubra         Northern white oak         8.4           1441         Quercus rubra         Northern white oak         8.4           1442         Quercus rubra         Northern red oak         7.3           1444         Quercus rubra         Northern red oak         15.7, 23.4           1445         Prunus serotina         Black cherry         6.5           1446         Quercus rubra         Northern red oak         16.1           1447         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1449         Quercus rubra         Northern red oak         8.4           1450         Quercus rubra         Northern red oak         16.1           1448         Tilia americana         American basswood         6.1           1452         Quercus rubra         Northern red oak         15.2           1453         Prunus serotina         Black cherry         10.7           1455         Quercus rubra         Northern red oak         15.2           1457         Prunus serotina         Black cherry	1		,			-
1440         Quercus rubra         Northern red oak         26.3           1441         Quercus rubra         Northern white oak         8.4           1442         Quercus rubra         Northern red oak         17.6           1443         Acer soccharum         Sugar maple         7.3           1444         Quercus rubra         Northern red oak         16.7, 23.4           1444         Quercus rubra         Northern red oak         11.1           1444         Quercus rubra         Northern red oak         11.1           1447         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1445         Quercus rubra         Northern red oak         18.5           1445         Quercus rubra         Northern red oak         12.6           1445         Quercus rubra         Northern red oak         13.1           1455         Quercus rubra         Northern red oak         14.1           1456         Quercus rubra         Northern red oak         15.2           1457         Prunus serotina         Black cherry         14.7	<u> </u>		· ·			71-70048-
1442         Quercus rubra         Northern red oak         17.6           1443         Acer saccharum         Sugar maple         7.3           1444         Quercus rubra         Northern red oak         16.7, 23.4           1445         Prunus serotina         Black cherry         6.5           1446         Quercus rubra         Northern red oak         11.1           1447         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1445         Quercus rubra         Northern red oak         8.4           1451         Quercus rubra         Northern red oak         15.6           1452         Quercus rubra         Northern red oak         16.1           1454         Prunus serotina         Black cherry         10.7           1455         Quercus rubra         Northern red oak         15.2           1457         Purunus serotina         Black cherry         14.1           1456         Quercus rubra         Northern red oak         15.2           1457         Prunus serotina         Black cherry         14.1 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td>	1					-
1443         Acer saccharum         Sugar maple         7.3           1444         Quercus rubra         Northern red oak         16.7, 23.4           1445         Prunus serotina         Black cherry         6.5           1446         Quercus rubra         Northern red oak         11.1           1447         Tilla americana         American basswood         6.1           1448         Tilla americana         American basswood         6.1           1449         Tilla americana         American basswood         6.1           1449         Quercus rubra         Northern red oak         8.4           1451         Quercus rubra         Northern red oak         15.6           1452         Quercus rubra         Northern red oak         16.1           1454         Prunus serotina         Black cherry         8.8           1455         Quercus rubra         Northern red oak         15.2           1456         Quercus rubra         Northern red oak         12.6           1457         Prunus serotina         Black cherry         14.1           1456         Quercus rubra         Northern red oak         12.6           1459         Quercus rubra         Northern red oak         12.6 <td>1</td> <td>8.4</td> <td>Northern white oak</td> <td>Quercus alba</td> <td>1441</td> <td></td>	1	8.4	Northern white oak	Quercus alba	1441	
1444         Quercus rubra         Northem red oak         16.7, 23.4           1445         Prunus serotina         Black cherry         6.5           1446         Quercus rubra         Northem red oak         11.1           1447         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1450         Quercus rubra         Northem red oak         8.4           1451         Quercus rubra         Northem red oak         10.7           1452         Quercus rubra         Northem red oak         11.1           1453         Prunus serotina         Black cherry         10.7           1454         Prunus serotina         Black cherry         14.7           1455         Quercus rubra         Northem red oak         15.2           1457         Prunus serotina         Black cherry         14.1           1458         Amelonchier arbarea         Downy serviceberry         14.1           1459         Quercus rubra         Northem red oak         11.1	1					-
1445         Prunus serotina         Black cherry         6.5           1446         Quercus rubra         Northern red oak         11.1           1447         Tilia americana         American basswood         6.1           1448         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1449         Tilia americana         American basswood         6.1           1450         Quercus rubra         Northern red oak         8.4           1451         Quercus rubra         Northern red oak         10.7           1452         Quercus rubra         Northern red oak         16.1           1455         Quercus rubra         Northern red oak         15.2           1457         Prunus serotina         Black cherry         14.1           1458         Amelanchier arborea         Downy serviceberry         14.1           1459         Quercus rubra         Northern red oak         11.1           1460         Quercus rubra         Northern red oak         14.4           1462         Tilia americana         American baswood         6.	<u> </u>					-
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71-69896 1484 Populus deltoides Eastern cottonwood 7.2	3		Eactorn cottonus			F
	<u> </u>			- · · · · · · · · · · · · · · · · · · ·		71-69896
	1			· ·		1 0,000
1486Populus deltoidesEastern cottonwood9.4	1					-
1487Pinus strobusEastern white pine21.9	1	+ +	·			
1488Pinus strobusEastern white pine13.01480Binus strobusEastern white pine20.1	1		· · ·			
1489Pinus strobusEastern white pine20.11490Pinus strobusEastern white pine15.6	<u> </u>					
1490Pinus strobusEastern white pine15.61491Pinus strobusEastern white pine24.0	1					F

71-69895

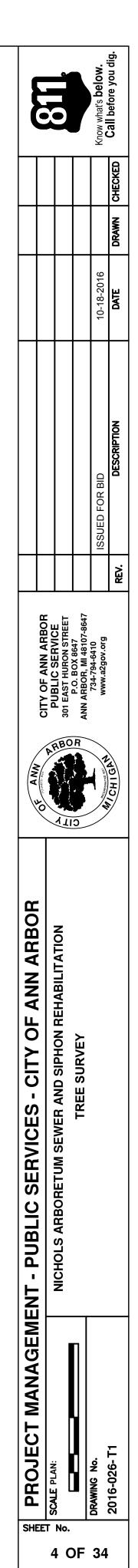
Manhole Number 71-69896

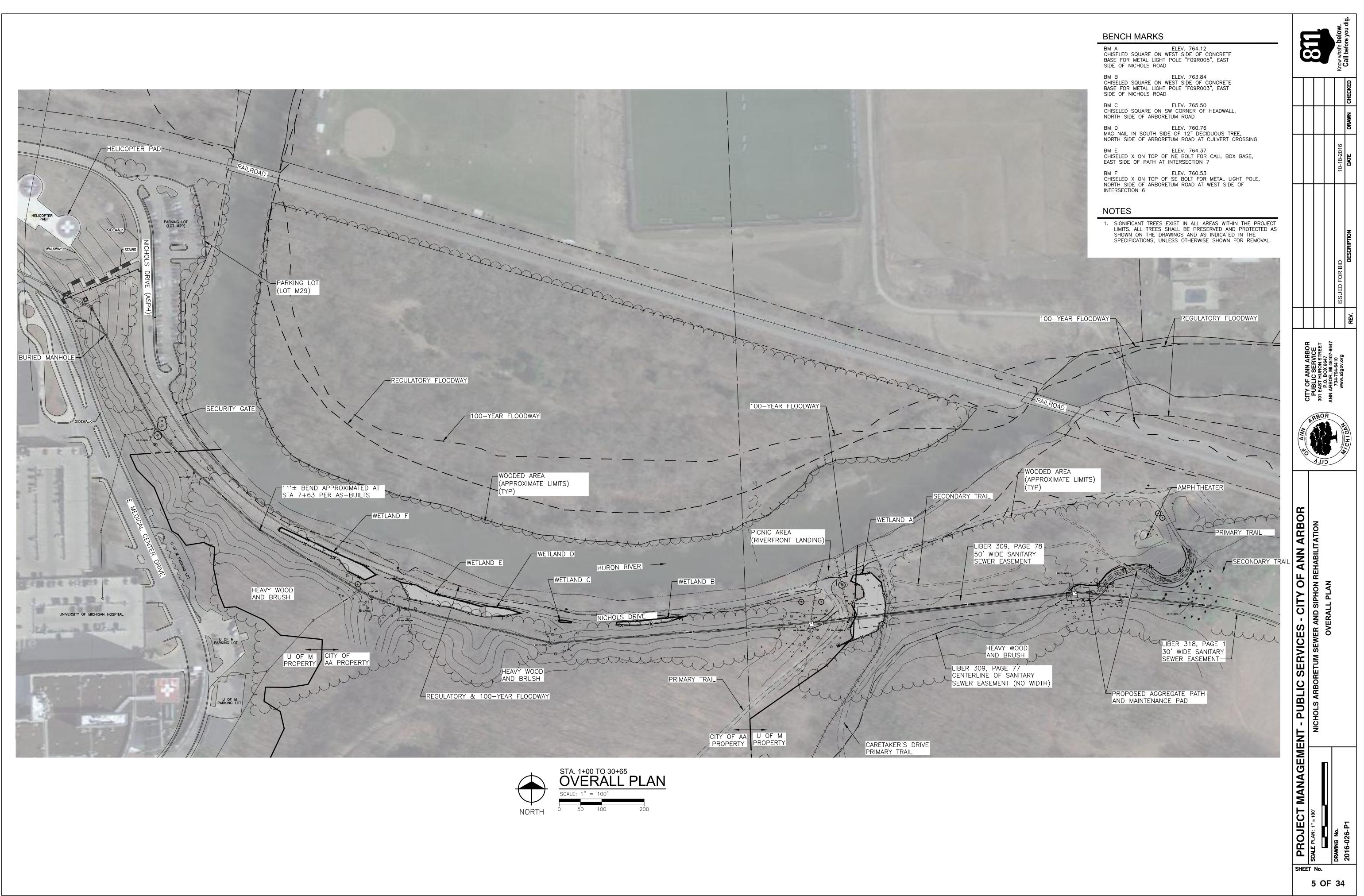
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1945         Prog. stocks         Eastern White prov.         13.3         2           1965         Prog. stocks         Eastern White prov.         7.9         1           1967         Prog. objer.         Norrway spruce.         27.8         1           1968         Prog. objer.         Norrway spruce.         18.6         1           1969         Prog. or objer.         Eastern White print         17.9         1           1500         Prog. objer.         Norrway spruce.         13.6         1           1511         Prog. objer.         Norrway spruce.         13.6         1           1512         Prog. objer.         Norrway spruce.         13.6         1           1513         Prog. objer.         Norrway spruce.         13.2         1           1515         Prog. objer.         Norrway spruce.         13.2         1           1515         Prog. objer.         Norrway spruce.         13.2         1           1515         Prog. objer.         Norrway spruce.         13.2         1           1517         Prog. objer.         Norrway spruce.         13.2         1           1518         Prog. stocks.         Eastern white prine.         23.4.2         1	Tree Tag Number	Scientific Name	Common Name	Diameter at Breast Height (inches)	Tree Condition
1405         Pice arbis         Nerwy space         1.3         2           1407         Pice abis         Nerwy space         2.8         1           1408         Pice abis         Nerwy space         2.8         1           1409         Pice arbis         Nerwy space         3.5         1           1500         Pice abis         Nerwy space         3.6         1           1511         Pice abis         Nerwy space         3.6         1           1512         Pice abis         Nerwy space         3.6         1           1513         Pice abis         Nerwy space         3.6         1           1514         Pice abis         Nerwy space         3.2         1           1515         Pice abis         Nerwy space         3.2         1           1523         Pice abis         Nerwy space         3.2         1           1524         Pice abis         Nerwy space         3.2         1 <td>1493 1494</td> <td>Pinus strobus Pinus strobus</td> <td>Eastern white pine</td> <td>17.4</td> <td></td>	1493 1494	Pinus strobus Pinus strobus	Eastern white pine	17.4	
1406         Pice abes         Nerwy sproze         7.9         1           1408         Pious strubus         Eastern while pine         3.8         1           1500         Pious strubus         Eastern while pine         3.8         1           1510         Pious arbubs         Eastern while pine         3.0         1           1511         Pious abes         Norwy sproze         3.0         1           1512         Pious abes         Norwy sproze         3.5.6         1           1513         Pious abes         Norwy sproze         3.5.6         1           1514         Pious abes         Norwy sproze         3.5.2         1           1515         Pious abes         Norwy sproze         3.5.2         1           1516         Pious abes         Norwy sproze         3.5.2         1           1517         Pious atrobus         Eastern while pine         2.1         1           152         Pious strubus         Eastern while pine         2.1         1           152         Pious strubus         Eastern while pine         2.1         1           152         Pious strubus         Eastern while pine         2.1         1           152					
1949         Process strabus         Eastern white pine         115.5         11           1940         Process strabus         Sartern white pine         17.9         11           1910         Precess ables         Norway spruce         11.6         11           1911         Precess ables         Norway spruce         12.6         11           1913         Precess ables         Norway spruce         13.6         11           1913         Precess ables         Norway spruce         12.6         11           1913         Precessables         Norway spruce         12.2         11           1914         Precessables         Norway spruce         12.2         11           1915         Precessables         Norway spruce         12.2         11           1916         Precessables         Sartern white pine         12.1         11           1917         Precessables         Sartern white pine         12.2         11           1918         Precessables         Sartern white pine         12.2         11           1917         Precessables         Sartern white pine         12.4         12.2         11           1912         Precessables         Sartern white pine					
1990         Procest chies         Israw systeme         11.9         11           1910         Piece chies         Norwsysteme         13.0         11           1911         Piece chies         Norwsysteme         13.9         11           1912         Piece chies         Norwsysteme         13.9         11           1913         Piece chies         Norws proce         12.6         11           1915         Piece chies         Norws proce         12.2         1           1915         Piece chies         Norws proce         18.2         1           1916         Piece chies         Norws proce         18.2         1           1917         Piece chies         Norws proce         18.2         1           1918         Pinus strobus         Eastern white pine         21.2         1           1917         Pinus strobus         Eastern white pine         27.7         1           1915         Pinus strobus         Eastern white pine         27.7         1           1917         IBiack cherry         18.3         1         1           1918         Ponus strobus         Eastern white pine         27.7         1           1915         Acre					1
1500         Piece ables         Norway spruce         18.0         1           1512         Piece ables         Norway spruce         12.4         1           1511         Piece ables         Norway spruce         13.9         1           1513         Piece ables         Norway spruce         13.9         1           1514         Piece ables         Norway spruce         16.2         1           1515         Piece ables         Norway spruce         16.2         1           1516         Piece ables         Norway spruce         16.2         1           1517         Piece ables         Norway spruce         16.2         1           1518         Piece ables         Norway spruce         16.2         1           1519         Piece ables         Norway spruce         16.2         1           1511         Piece ables         Norway spruce         16.2         1           1522         Piece ables         Norway spruce         16.2         1           1523         Piece ables         Sorway spruce         16.2         1           1524         Piece ables         Norway spruce         16.2         1           1525         Diece ables </td <td></td> <td></td> <td></td> <td></td> <td></td>					
1510         Piece obles         Norway sprace         10.4         1           1511         Piece obles         Norway sprace         13.9         1           1513         Pinus strobus         Eastern white pine         20.0         1           1514         Piece obles         Norway sprace         12.1         1           1515         Pinus strobus         Eastern white pine         12.1         1           1516         Piece obles         Norway sprace         18.2         1           1517         Piece obles         Norway sprace         18.2         1           1518         Pinus strobus         Eastern white pine         22.1         1           1520         Pinus strobus         Eastern white pine         24.8         2           1521         Pinus strobus         Eastern white pine         24.8         2           1522         Pinus strobus         Eastern white pine         24.8         2           1524         Pinus strobus         Eastern white pine         24.8         2           1525         Acer regundo         Box elder         15.2         2         2           1535         Quercas rubra         Back drerry         18.3         1					
IS11         Piece ables         Norws yource         I.1.6         I           IS12         Piece ables         Norws yource         I.3.9         I.1           IS14         Piece ables         Norws yource         I.5.6         I.1           IS15         Piece ables         Norws yource         I.5.2         I.1           IS16         Piece ables         Norws yource         I.5.2         I.1           IS18         Piece ables         Eastern white pine         I.2.2         I.1           IS21         Piece ables         Eastern white pine         I.2.7         I.1           IS22         Rever strobas         Eastern white pine         I.2.7         I.1           IS24         Piece ables         Norther med oak         I.9.9         I.1           IS25         Querces ruba         Norther med oak         I.9.9         I.1           IS24         Aler regunda         Box-lider         I.2.2         I.2      <					
1513         Paragestrophies         Estern white pince         33.0         1           1514         Picera obles         Nerway spruce         15.6         1           1515         Picera obles         Nerway spruce         16.2         1           1516         Picera obles         Nerway spruce         16.2         1           1518         Picera obles         Nerway spruce         18.2         1           1519         Picera obles         Eastern white pine         22.1         1           1520         Picera strobus         Eastern white pine         28.1         1           1521         Picera strobus         Eastern white pine         27.7         1           1525         Ourcear ubra         Barker white pine         27.7         1           1525         Ourcear ubra         Barker cherry         15.0         1           1526         Procurs scrobus         Eastern white pine         27.6         5.5         1           1527         The americann         American basswood         97.7         5.5         1           1528         Procurs scrobus         Back cherry         15.1         14.2         1           1529         Procurs scrobus	1511	Picea abies		21.6	1
1515         Precarbles         Norway spruce         15.6         1           1515         Picea ables         Norway spruce         16.2         1           1517         Picea ables         Norway spruce         16.2         1           1518         Price ables         Norway spruce         16.2         1           1519         Price ables         Norway spruce         16.2         1           1510         Price strobus         Eastern white pine         22.1         1           1520         Price strobus         Eastern white pine         24.8         2           1521         Price strobus         Eastern white pine         24.8         2           1524         Price strobus         Eastern white pine         24.8         2           1524         Price strobus         Eastern white pine         24.8         2           1535         Quercus strobus         Eastern white pine         24.8         1           1536         Acer angundo         Box-elder         12.2         2         2           1530         Price strobus         Back chery         13.1         1         1           1532         Price strobus sectina         Back chery         9.4					
1516         Pice a bits         Norway spruce         22.1         1           1516         Pice a bits         Norway spruce         18.2         1           1518         Pice a bits         Norway spruce         18.2         1           1518         Pinus strobus         Eastern white pine         22.1         1           1510         Pinus strobus         Eastern white pine         28.1         1           1521         Pinus strobus         Eastern white pine         28.1         1           1523         Pinus strobus         Eastern white pine         24.8         2           1524         Pinus strobus         Eastern white pine         27.7         1           1525         Quercus rubro         Northern red oak         26.3         1           1526         Quercus rubro         Northern red oak         13.9         1           1537         Tila carrelean         Base-lider         13.2         2         2           1530         Quercus rubro         Northern red oak         3.9         1           1531         Prunus serotina         Black cherry         15.1         14.2         1           1531         Prunus serotina         Black cherry <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
1516         Pice obles         Norway spruce         16.2         1           1517         Pice obles         Norway spruce         18.2         1           1518         Pinus strobus         Eastern white pine         12.1         1           1519         Pinus strobus         Eastern white pine         12.1         1           1512         Pinus strobus         Eastern white pine         12.6         1           1521         Pinus strobus         Eastern white pine         24.8         2           1524         Pinus strobus         Eastern white pine         24.8         2           1526         Aerr engunda         Box-elder         16.9         1           1527         Tile omericona         Americon basswood         9.7,76,5.5         1           1528         Aerr negunda         Box-elder         13.0         1           1531         Pranus serotina         Black chery         13.4         1           1532         Aerr negunda         Black chery         13.4         1           1533         Pranus serotina         Black chery         13.4         1           1534         Pranus serotina         Black chery         13.0         1					
1517         Piena ables         Norway soruce         18.2         1           1518         Pieus strobus         Eastern white pine         12.1         1           1510         Pieus strobus         Eastern white pine         22.1         1           1520         Pieus strobus         Eastern white pine         21.2         1           1521         Pieus strobus         Eastern white pine         24.6         2           1524         Pieus strobus         Eastern white pine         27.7         1           1525         Guerns ruhra         Northern red oak         26.3         1           1526         Pieuros serotina         Back cherry         13.0         1           1527         Tila americana         American basswood         9.7,7.6,5.5         1           1530         Cuerce subra         Black cherry         13.0         1           1532         Prunos serotina         Black cherry         15.1,14.2         1           1533         Prunos serotina         Black cherry         13.3         1           1534         Prunos serotina         Black cherry         13.3         1           1537         Prunos serotina         Black cherry         13.4					
1518         Pinus strobus         Eastern white pine         19.4         1           1519         Pinus strobus         Eastern white pine         22.1         1           1520         Pinus strobus         Eastern white pine         18.9         1           1521         Pinus strobus         Eastern white pine         26.1         1           1522         Pinus strobus         Eastern white pine         24.8         2           1524         Pinus strobus         Eastern white pine         24.7         1           1526         Aernegundo         Box elder         16.9         1           1527         Tim americana         American basswood         9.7, 7.6, 5.5         1           1528         Aern engundo         Box elder         12.2         2         2           1530         Punus sectrina         Black cherry         18.0         1           1531         Punus sectrina         Black cherry         8.9         1           1532         Punus sectrina         Black cherry         1.3         1           1534         Punus sectrina         Black cherry         1.0         1           1535         Punus sectrina         Black cherry         1.0 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
1520         Prus strabus         Extern white pine         21.2         1           1521         Prus strabus         Extern white pine         26.1         1           1522         Prus strabus         Extern white pine         24.8         2           1524         Prus strabus         Extern white pine         24.8         2           1525         Acer regundo         Box clider         16.9         1           1526         Acer regundo         Box clider         16.9         1           1527         Tila americana         American basswood         97.76.5.5         1           1528         Prunus serotina         Black cherry         13.0         1           1530         Prunus serotina         Black cherry         3.4         1           1531         Prunus serotina         Black cherry         3.9         1           1535         Prunus serotina         Black cherry         3.9         1           1536         Prunus serotina         Black cherry         1.3         1           1537         Prunus serotina         Black cherry         1.3         1           1538         Prunus serotina         Black cherry         1.0         1	1518	Pinus strobus		19.4	
IS21         Pinus strabus         Eastern white pine         18.9         1           IS22         Pinus strabus         Eastern white pine         26.1         1           IS24         Pinus strabus         Eastern white pine         27.7         1           IS24         Pinus strabus         Eastern white pine         27.7         1           IS25         Quercus rubra         Northern red oak         28.3         1           IS24         Prunus serotino         Black cherry         13.0         1           IS25         Quercus rubra         Marci rubra med oak         19.9         1           IS30         Quercus rubra         Black cherry         13.0         1           IS32         Prunus serotina         Black cherry         9.4         1           IS34         Prunus serotina         Black cherry         1.3         1           IS35         Prunus serotina         Black cherry         1.3         1           IS36         Prunus serotina         Black cherry         1.3         1           IS37         Prunus serotina         Black cherry         1.3         1           IS38         Prunus serotina         Black cherry         1.0         1	1519	Pinus strobus	Eastern white pine	22.1	1
1522         Prink strabus         Eastern while pine         26.1         1           1523         Prink strabus         Eastern while pine         27.7         1           1526         Acer cagundo         Box-elfer         16.9         1           1526         Acer negundo         Box-elfer         16.9         1           1527         Tilo omerkana         American basswood         9.7, 7.6, 5.5         1           1528         Prunus serotina         Black cherry         13.0         1           1529         Acer negundo         alox-elfer         12.2         2           1530         Quercus rubro         Northern red oak         19.9         1           1531         Prunus serotina         Black cherry         8.4         1           1533         Prunus serotina         Black cherry         8.9         1           1534         Prunus serotina         Black cherry         13.3         1           1535         Prunus serotina         Black cherry         13.4         1           1536         Prunus serotina         Black cherry         10.0         1           1537         Prunus serotina         Black cherry         10.0         1					
1523         Praces strobus         Eastern white pine         24.8         2           1524         Praces strobus         Eastern white pine         27.7         1           1525         Quercus robra         Northern red oak         26.3         1           1526         Acer negundo         Box elder         16.9         1           1527         Till americana         Americana basswood         9.7, 7.6, 5.5         1           1528         Acer negundo         Box elder         12.2         2           1530         Quercus rubra         Northern red oak         19.9         1           1531         Prunus serotina         Black chery         8.4         1           1532         Prunus serotina         Black chery         8.9         1           1536         Prunus serotina         Black chery         11.3         1           1537         Prunus serotina         Black chery         13.3         1           1538         Prunus serotina         Black chery         13.4         1           1540         Prunus serotina         Black chery         16.0         1           1541         Prunus serotina         Black chery         16.0         1 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
1525         Purus strobus         Eastern white pine         27.7         1           1526         Acer ragundo         Box-klear         16.9         1           1527         Tille americana         American basswood         9.7, 7.6, 5.5         1           1528         Prunus serotina         Black cherry         13.0         1           1528         Prunus serotina         Black cherry         18.10         1           1530         Quercus rubra         Northern red oak         19.9         1           1531         Prunus serotina         Black cherry         8.4         1           1532         Prunus serotina         Black cherry         8.9         1           1535         Prunus serotina         Black cherry         8.9         1           1536         Prunus serotina         Black cherry         13.9         1           1537         Prunus serotina         Black cherry         13.9         1           1540         Umas serotina         Black cherry         10.6         1           1541         Prunus serotina         Black cherry         19.6         1           1542         Pranus serotina         Black cherry         10.1           15					
1525         Queccus rubra         Northern red oak         25.3         1           1526         Acer negundo         Box-elder         16.9         1           1527         Tiko omerkana         American basswood         97, 76, 5.5         1           1528         Acer negundo         Box-elder         12.2         2           1530         Queccus rubra         Northern red oak         19.9         1           1531         Prunus serotina         Black cherry         8.4         1           1532         Prunus serotina         Black cherry         8.9         1           1535         Prunus serotina         Black cherry         9.0         1           1536         Prunus serotina         Black cherry         11.3         1           1537         Prunus serotina         Black cherry         13.9         1           1538         Prunus serotina         Black cherry         13.0         1           1540         Umus serotina         Black cherry         16.0         1           1541         Prunus serotina         Black cherry         16.0         1           1542         Prunus serotina         Black cherry         16.0         1					
1526         Aer negundo         Box-elder         15.9         1           1527         Tilia americana         American basswood         9.7,7.6,8.5         1           1528 <i>Prunus secretina</i> Black cherry         13.0         1           1530 <i>Querus subra</i> Northern red oak         19.9         1           1531 <i>Prunus secretina</i> Black cherry         8.4         1           1532 <i>Prunus secretina</i> Black cherry         9.4         1           1534 <i>Prunus secretina</i> Black cherry         8.9         1           1535 <i>Prunus secretina</i> Black cherry         11.3         1           1536 <i>Prunus secretina</i> Black cherry         13.9         1           1537 <i>Prunus secretina</i> Black cherry         13.4         1           1538 <i>Prunus secretina</i> Black cherry         19.6         1           1540 <i>Uns omericana</i> American elm         7.1         1           1541 <i>Prunus secretina</i> Black cherry         16.0         1           1544 <i>Prunus secretina</i> Black cherry         16.0         <			•		
1528         Pranus serotina         Black cherry         13.0         1           1530         Acer negundo         Box-elder         12.2         2           1530         Ouecus vubra         Northern red oak         19.9         1           1531         Pranus serotina         Black cherry         8.4         1           1532         Pranus serotina         Black cherry         8.9         1           1533         Pranus serotina         Black cherry         8.9         1           1535         Pranus serotina         Black cherry         9.0         1           1536         Pranus serotina         Black cherry         13.9         1           1537         Pranus serotina         Black cherry         13.4         1           1540         Ulmus mericana el ma         7.1         1         1           1540         Ulmus mericana el ma         7.1         1         1           1541         Pranus serotina         Black cherry         16.0         1           1542         Pranus serotina         Black cherry         16.2         1           1544         Pranus serotina         Black cherry         16.5         1           1547					
1529         Acr negunda         Box-clear         12.2         2           1530 <i>Querus rubra</i> Northern red oak         19.9         1           1531 <i>Prunus serotina</i> Black cherry         8.4         1           1532 <i>Prunus serotina</i> Black cherry         9.4         1           1534 <i>Prunus serotina</i> Black cherry         9.9         1           1535 <i>Prunus serotina</i> Black cherry         9.0         1           1536 <i>Prunus serotina</i> Black cherry         1.3.9         1           1537 <i>Prunus serotina</i> Black cherry         1.3.9         1           1538 <i>Prunus serotina</i> Black cherry         9.0         1           1540 <i>Prunus serotina</i> Black cherry         9.0         1           1541 <i>Prunus serotina</i> Black cherry         16.2         1           1544 <i>Prunus serotina</i> Black cherry         9.0         1           1547 <i>Prunus serotina</i> Black cherry         9.0         1           1548 <i>Prunus serotina</i> Black cherry         9.0         1					1
1530         Quercus rubra         Northern red oak         19.9         1           1531         Prunus serotina         Black cherry         8.4         1           1532         Prunus serotina         Black cherry         9.4         1           1533         Prunus serotina         Black cherry         9.4         1           1534         Prunus serotina         Black cherry         8.9         1           1535         Prunus serotina         Black cherry         9.0         1           1537         Prunus serotina         Black cherry         13.3         1           1538         Prunus serotina         Black cherry         13.4         1           1540         Ulmus mericana         American elm         7.1         1           1541         Prunus serotina         Black cherry         10.6         1           1542         Prunus serotina         Black cherry         16.0         1           1544         Prunus serotina         Black cherry         16.0         1           1545         Prunus serotina         Black cherry         9.8         1         1           1546         Prunus serotina         Black cherry         9.1         1					
1531         Prunus serotina         Black cherry         8.4         1           1532         Prunus serotina         Black cherry         15.1, 14.2         1           1533         Prunus serotina         Black cherry         8.9         1           1534         Prunus serotina         Black cherry         8.9         1           1535         Prunus serotina         Black cherry         9.0         1           1537         Prunus serotina         Black cherry         13.3         1           1538         Prunus serotina         Black cherry         13.4         1           1539         Prunus serotina         Black cherry         9.0         1           1541         Prunus serotina         Black cherry         19.6         1           1542         Prunus serotina         Black cherry         16.0         1           1544         Prunus serotina         Black cherry         6.8         1           1545         Prunus serotina         Black cherry         9.1         1           1547         Prunus serotina         Black cherry         9.1         1           1548         Prunus serotina         Black cherry         9.1         1					
1532         Prunus serotina         Black cherry         15.1, 14.2         1           1533         Prunus serotina         Black cherry         9.4         1           1534         Prunus serotina         Black cherry         8.9         1           1535         Prunus serotina         Black cherry         8.9         1           1536         Prunus serotina         Black cherry         1.3         1           1537         Prunus serotina         Black cherry         1.3.4         1           1540         Ulnus americana         American elm         7.1         1           1541         Prunus serotina         Black cherry         19.6         1           1542         Prunus serotina         Black cherry         16.0         1           1543         Prunus serotina         Black cherry         16.0         1           1544         Prunus serotina         Black cherry         16.5         1           1545         Prunus serotina         Black cherry         9.8         1           1547         Prunus serotina         Black cherry         9.1         1           1548         Prunus serotina         Black cherry         5.9         1					
1533         Prunus serotino         Black cherry         9.4         1           1534         Prunus serotino         Black cherry         8.9         1           1536         Prunus serotino         Black cherry         9.0         1           1537         Prunus serotino         Black cherry         9.0         1           1538         Prunus serotino         Black cherry         13.9         1           1539         Prunus serotino         Black cherry         13.4         1           1540         Uhuns serotino         Black cherry         9.0         1           1542         Prunus serotino         Black cherry         16.0         1           1542         Prunus serotino         Black cherry         16.0         1           1543         Prunus serotino         Black cherry         6.5         1           1547         Prunus serotino         Black cherry         9.8         1           1548         Prunus serotino         Black cherry         9.1         1           1549         Prunus serotino         Black cherry         9.1         1           1550         Prunus serotino         Black cherry         9.1         1           1551					
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1538       Prunus serotina       Black cherry       13.9       1         1540       Ulmus americana       American elm       7.1       1         1540       Prunus serotina       Black cherry       9.0       1         1541       Prunus serotina       Black cherry       9.0       1         1542       Prunus serotina       Black cherry       16.2       1         1543       Prunus serotina       Black cherry       16.0       1         1545       Prunus serotina       Black cherry       6.8       1         1546       Prunus serotina       Black cherry       9.8       1         1547       Prunus serotina       Black cherry       9.1       1         1550       Prunus serotina       Black cherry       9.1       1         1551       Prunus serotina       Black cherry       5.9       1         1552       Prunus serotina       Black cherry       5.6       1         1553       Quercus rubra       Northern red oak       19.6       1         1554       Prunus serotina       Black cherry       5.6       1         1555       Quercus rubra       Northern red oak       14.4       1					
1539       Prunus serotina       Black cherry       13.4       1         1540       Ulmus serotina       American elm       7.1       1         1541       Prunus serotina       Black cherry       9.0       1         1542       Prunus serotina       Black cherry       16.2       1         1543       Prunus serotina       Black cherry       16.0       1         1544       Prunus serotina       Black cherry       6.5       1         1547       Prunus serotina       Black cherry       9.8       1         1548       Prunus serotina       Black cherry       9.1       1       1         1550       Prunus serotina       Black cherry       9.1       1       1         1551       Prunus serotina       Black cherry       5.9       1       1         1552       Prunus serotina       Black cherry       5.6       1       1         1553       Quercus rubra       Northern red oak       19.6       1       1         1554       Prunus serotina       Black cherry       5.6       1       1         1555       Quercus rubra       Northern red oak       34.4       1       1       1       155     <			· ·		
1540         Ulmus americana         American elm         7.1         1           1541         Prunus serotina         Black cherry         9.0         1           1542         Prunus serotina         Black cherry         19.6         1           1543         Prunus serotina         Black cherry         16.2         1           1544         Prunus serotina         Black cherry         16.0         1           1545         Prunus serotina         Black cherry         6.8         1           1546         Prunus serotina         Black cherry         9.8         1           1547         Prunus serotina         Black cherry         9.1         1           1548         Prunus serotina         Black cherry         9.1         1           1550         Prunus serotina         Black cherry         5.9         1           1552         Prunus serotina         Black cherry         5.6         1           1552         Prunus serotina         Black cherry         5.6         1           1552         Quercus rubra         Northern red oak         19.6         1           1555         Quercus rubra         Northern red oak         34.4         1 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
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1583Prunus serotinaBlack cherry13.11					1
1584Prunus serotinaBlack cherry9.011585Prunus serotinaBlack cherry7.31					1

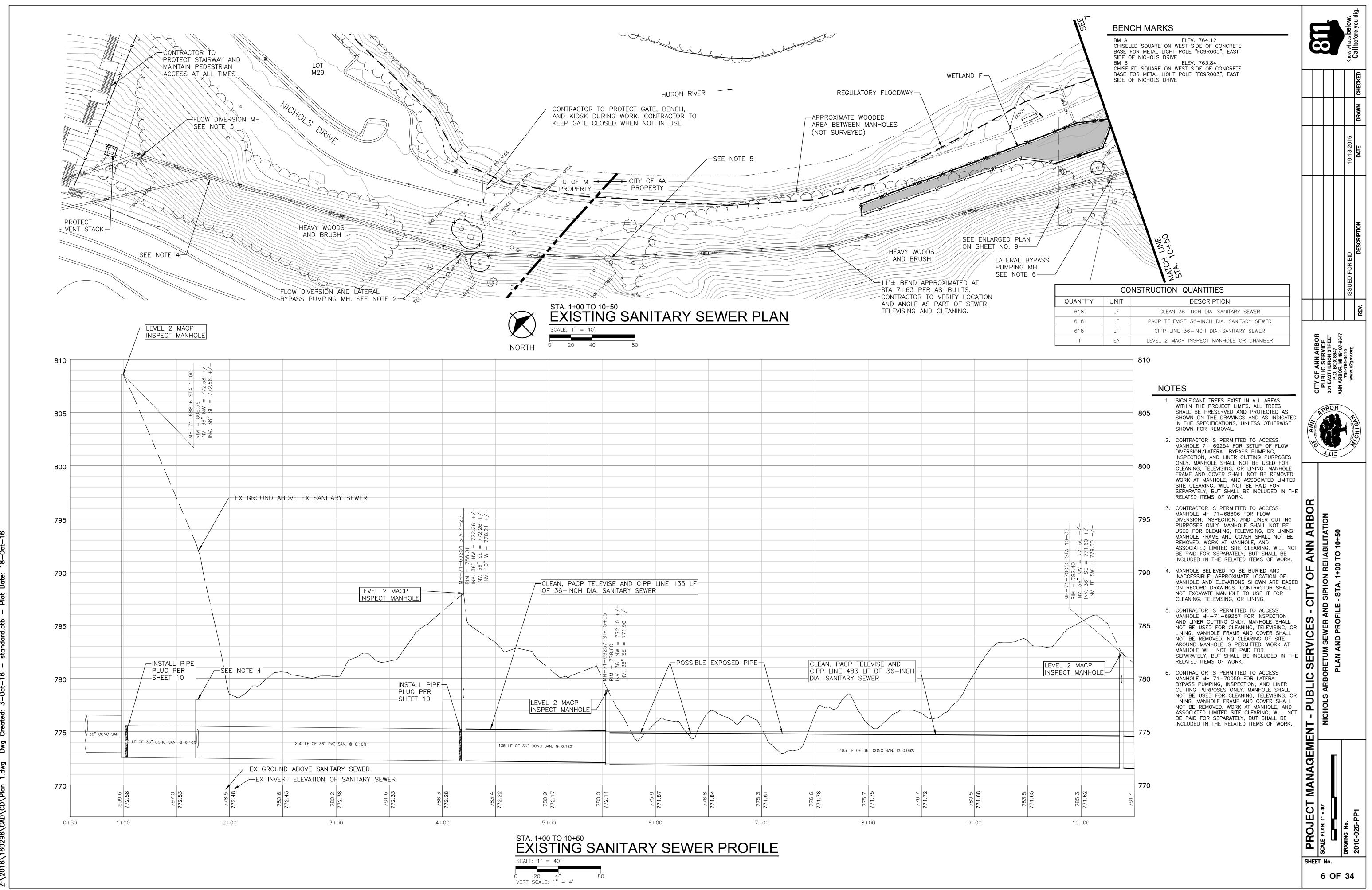
Manhole Number	Tree Tag Number	Scientific Name	Common Name	Diameter at Breast Height (inches)	Tree Condition
71-69895	1586	Prunus serotina	Black cherry	11.5	1
-	1587	Prunus serotina	Black cherry	10.1	1
-	1588 1589	Prunus serotina Prunus serotina	Black cherry Black cherry	7.6	<u> </u>
-	1589	Prunus serotina	Black cherry	12.2, 10.7	1
-	1591	Acer negundo	Box-elder	12.9	1
	1592	Ulmus americana	American elm	9.4	1
	1593	Acer saccharinum	Silver maple	25.5	1
Siphon	923 1594	Carya ovata Betula nigra	Shagbark hickkory River birch	14.7 8.9, 8.6, 7.5	3
-	925	Fraxinus americana	White ash	18.6	3
-	926	Fraxinus pennsylvanica	Green ash	15.4	3
	927	Acer negundo	Box-elder	7.2	2
-	928	Populus deltoides	Eastern cottonwood	12.3	2
-	929	Fraxinus americana	White ash	9.3	3
-	930 931	Fraxinus americana Carya ovata	White ash Shagbark hickkory	6.6 13.8	3
-	932	Carya ovata	Shagbark hickkory	13.5	1
-	933	Carya ovata	Shagbark hickkory	12.3	1
	934	Betula nigra	River birch	10.1	1
-	935	Quercus rubra	Northern red oak	30.2	1
-	936	Acer negundo	Box-elder	14.1	1
-	937 938	Fraxinus americana Carya ovata	White ash Shagbark hickkory	7.7 6.6	3
-	939	Carya ovata	Shagbark hickkory	13.1	1
ł	940	Carya ovata	Shagbark hickkory	8.7	1
	941	Carya ovata	Shagbark hickkory	14.7	1
ļ	942	Carya ovata	Shagbark hickkory	7.7	1
-	944	Quercus rubra	Northern red oak	13.9	1
-	945 946	Tilia americana Carya ovata	American basswood Shagbark hickkory	7.8	1
-	940	Quercus rubra	Northern red oak	25.0	1
-	948	Prunus serotina	Black cherry	19.8	1
	949	Tilia americana	American basswood	8.0	1
-	950	Carya ovata	Shagbark hickkory	13.1	1
-	951	Quercus alba	Northern white oak	11.7, 8.7	1
-	952 953	Quercus alba Quercus alba	Northern white oak	7.1	1
-	955	Quercus alba	Northern white oak	9.9	1
-	955	Quercus alba	Northern white oak	10.6	1
	956	Quercus rubra	Northern red oak	23.0	1
-	957	Quercus alba	Northern white oak	6.7	1
-	958	Quercus rubra	Northern red oak	12.9	1
-	959 960	Quercus rubra Quercus rubra	Northern red oak Northern red oak	<u> </u>	<u> </u>
-	960	Carya ovata	Shagbark hickkory	11.0	2 1
-	962	Carya ovata	Shagbark hickkory	6.0	1
	963	Ostrya virginiana	Eastern hop-hornbeam	7.1	1
-	964	Ostrya virginiana	Eastern hop-hornbeam	7.5	1
-	965	Quercus alba	Northern white oak	6.1	1
-	966 967	Quercus rubra Quercus rubra	Northern red oak Northern red oak	20.6	<u> </u>
-	968	Quercus rubra	Northern red oak	21.1	1
-	969	Quercus rubra	Northern red oak	22.2	1
	970	Quercus alba	Northern white oak	8.3	1
-	971	Quercus alba	Northern white oak	6.4	1
ŀ	972	Quercus alba	Northern white oak	7.2	1
ł	973 974	Quercus rubra Carya ovata	Northern red oak Shagbark hickkory	13.1, 15.7 11.0, 7.3	<u> </u>
ŀ	974	Quercus alba	Northern white oak	13.9	1
ł	976	Quercus rubra	Northern red oak	14.2	1
	977	Quercus alba	Northern white oak	17.3	1
ŀ	978	Quercus rubra	Northern red oak	19.3	1
ŀ	979 980	Ostrya virginiana Prunus serotina	Eastern hop-hornbeam	8.1	1
-	<u> </u>	Prunus serotina Carya ovata	Black cherry Shagbark hickkory	<u> </u>	1
-	982	Quercus rubra	Northern red oak	16.1	1
	983	Ostrya virginiana	Eastern hop-hornbeam	6.5	1
ļ	984	Ostrya virginiana	Eastern hop-hornbeam	7.3	1
ŀ	985	Ostrya virginiana	Eastern hop-hornbeam	6.0	1
ŀ	986 987	Ostrya virginiana Prunus serotina	Eastern hop-hornbeam Black cherry	9.6, 11.3	1
-	987	Ostrya virginiana	Eastern hop-hornbeam	8.3	1
-	989	Ostrya virginiana	Eastern hop-hornbeam	6.4	1
	990	Ostrya virginiana	Eastern hop-hornbeam	6.1	1
	991	Quercus rubra	Northern red oak	14.1	1
ŀ	992	Carya ovata	Shagbark hickkory	8.6, 11.1, 16.8	1
r	993	Quercus rubra	Northern red oak	21.5, 21.5	1
ŀ	994 995	Quercus rubra Ostrya virginiana	Northern red oak Eastern hop-hornbeam	8.7	3
-	996	Ostrya virginiana	Eastern hop-hornbeam	9.5, 6.9	1
	997	Ostrya virginiana	Eastern hop-hornbeam	9.6	1
F	998	Tilia americana	American basswood	6.7	1

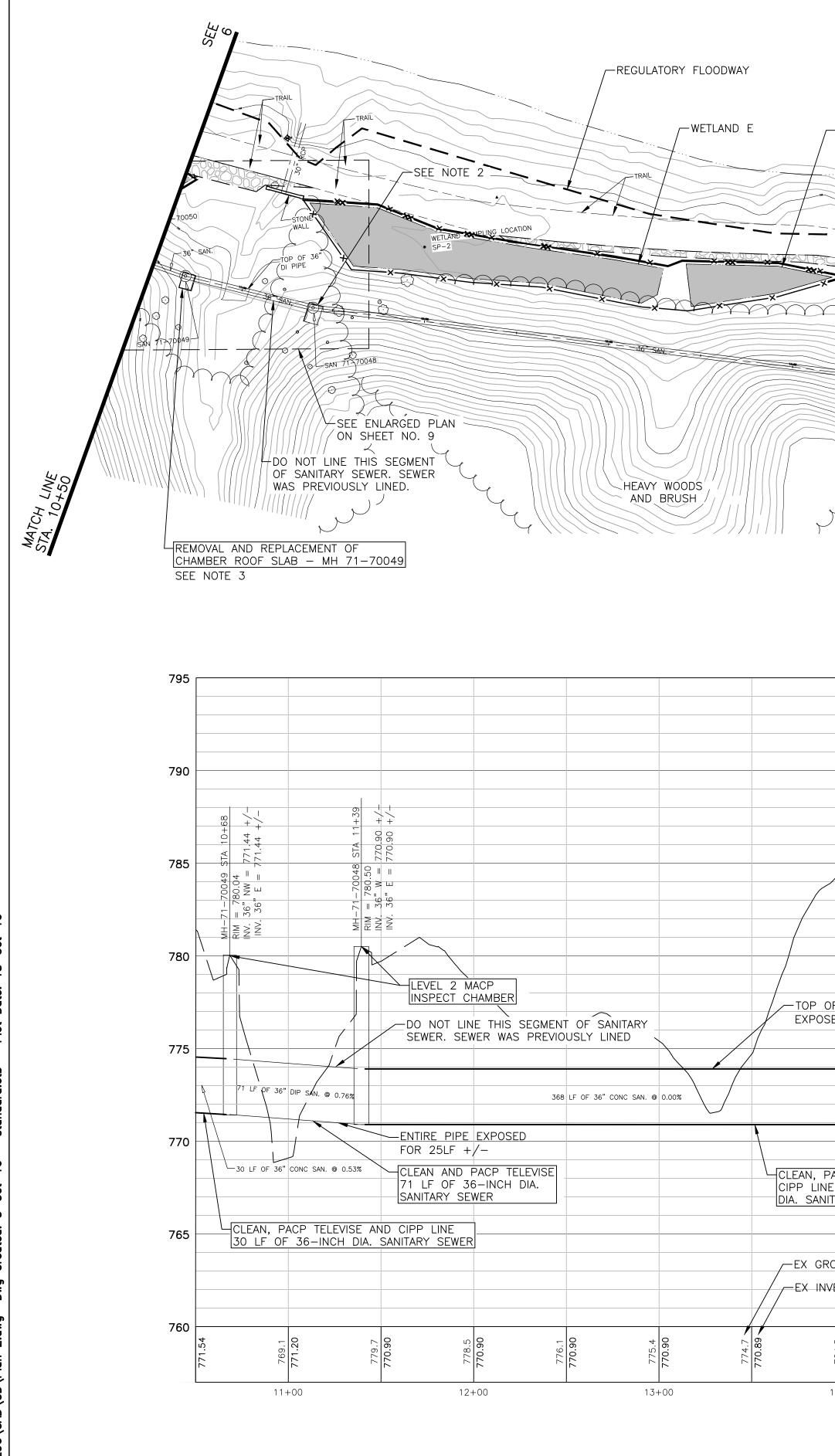
Notes: Tree condition: 1 = Alive, 2 = Diseased, damaged or dying, 3 = Dead. INFORMATION GATHERED DURING SURVEY ON 5/9/16 WITH UPDATES BASED ON SURVEY ON 8/4/16.





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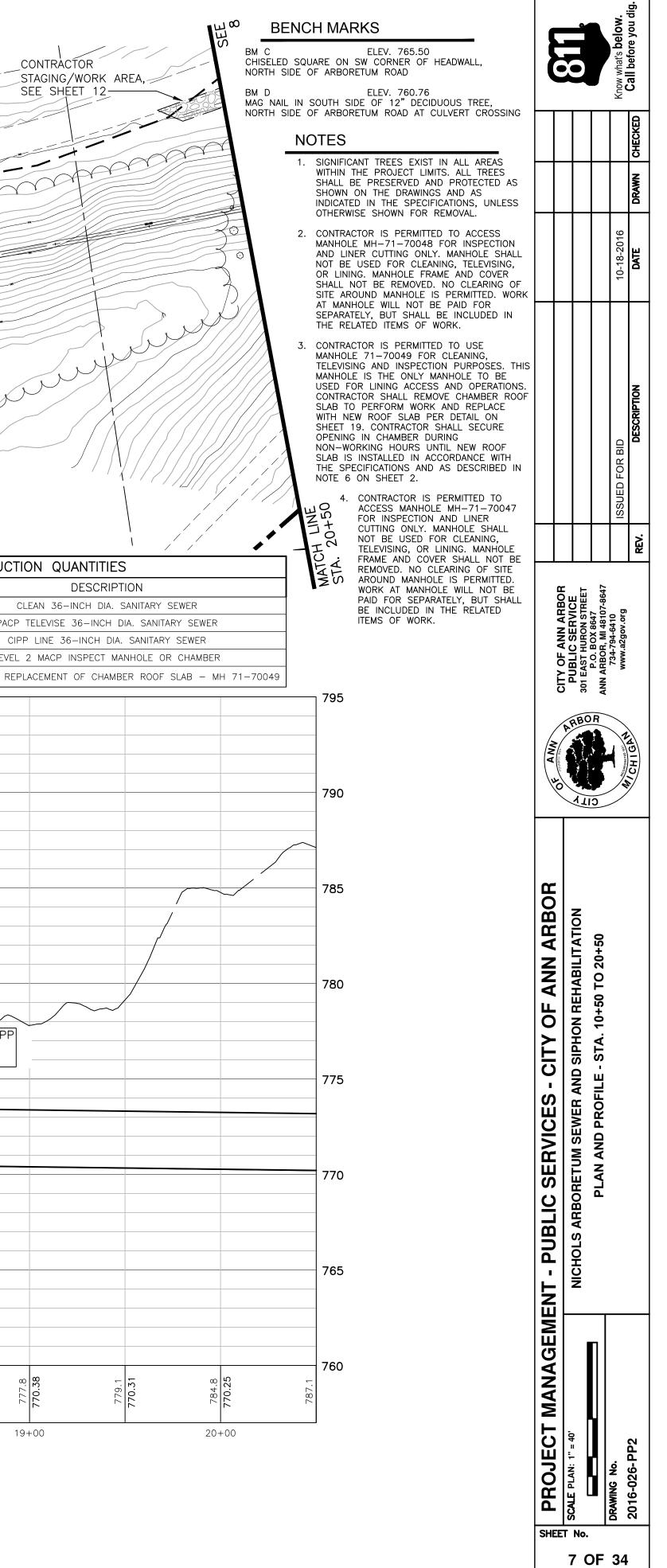
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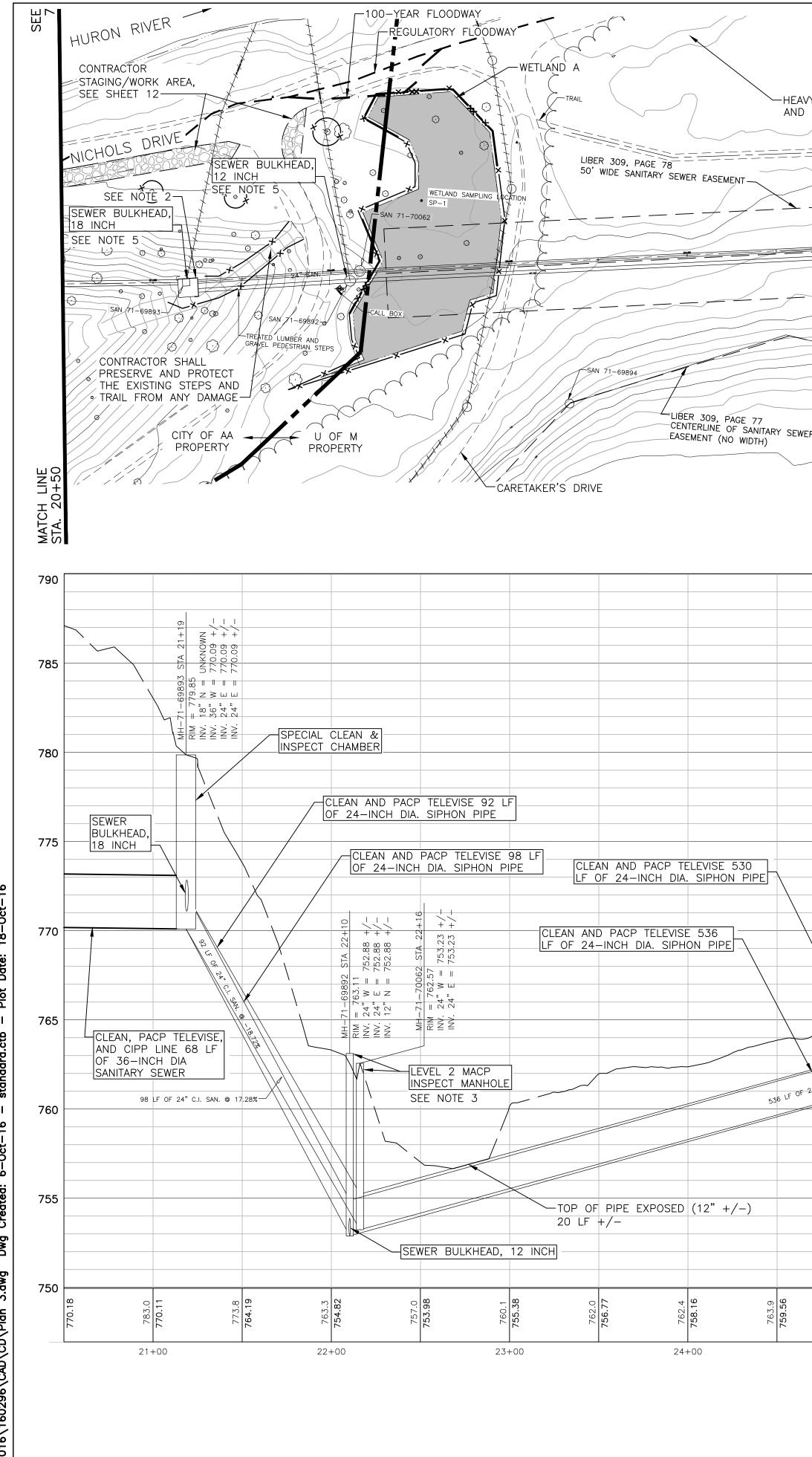
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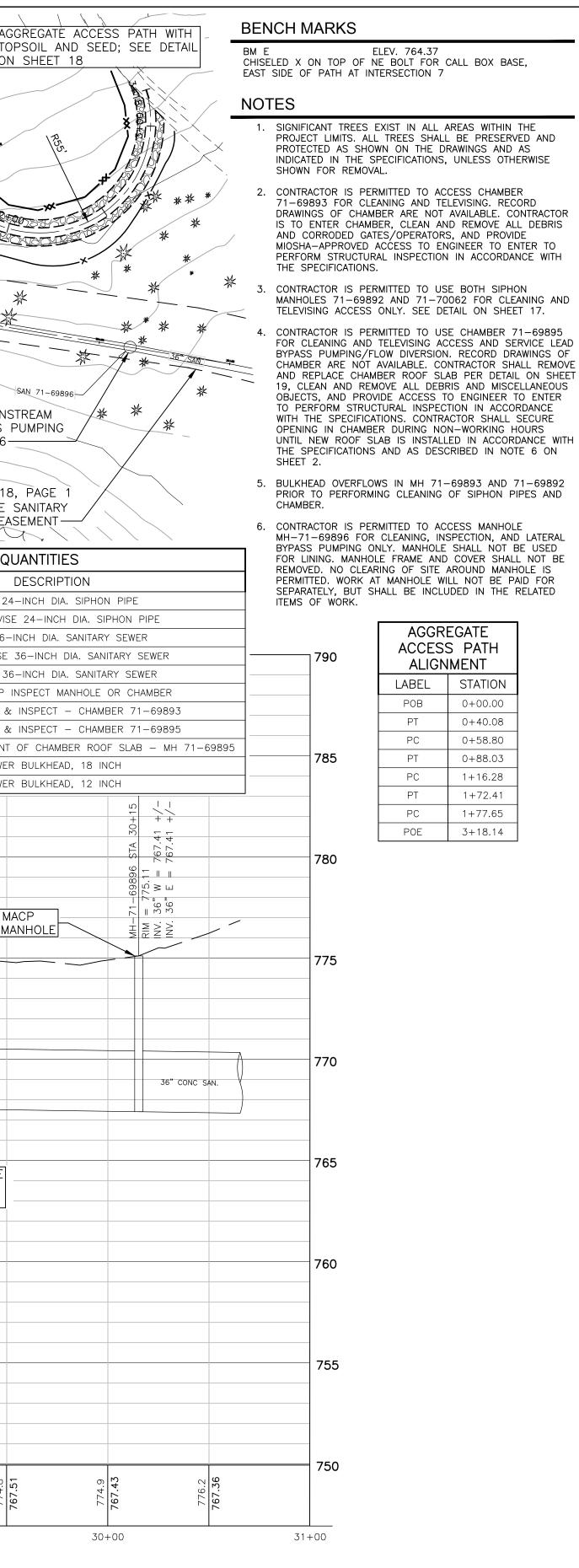
		HURC	)n river –	WE	TLAND B				
-WETLAND D	WETLAND C								
			IRAIL			***	X		
		NICHC	IS DRIVE	×	X				***
		mm	A A A A A A A A A A A A A A A A A A A	X		10 1015	36" SAN		
				Trip					
				HEAVY WOOD AND BRUSH	DS H				
5AN 71-7004 0	• • •			uuu	III	XX	TH,	III A	
	•	Jul				ſ		ATE WOODED WEEN MANHC	
	X	SEE NOTE 6					(NOT SUR	VEYED)	
) STA 10	1+50 TO 20+50								CONSTRU
SCALE: 1	50  TO  20+50 STING SA	ANITAR	Y SEWE	R PLAN	l		QUANTIT 1012	Y UNIT	
NORTH 0 20		- 30					1012 941	LF LF	P/
							3	EA LS	LE REMOVAL AND
				EX GROUND	ABOVE EX S	ANITARY S	EWER		
			/	/					
	15+07 19 + /	~							
	STA 770.8								
	-71-70047 = 777.79 36" K = . . 36" E = .							<u> </u>	
	HM N N N N N N N N N N N N N N N N N N N								<u> </u>
)F PIPE (2" +/-)								n pacp tei	EVISE AND CIE
ED FOR 20LF +/-	LEVEL 2 MA						LINE	543 LF OF TARY SEWER	EVISE AND CIF 36-INCH DIA
							611 LF OF 36	5" CONC SAN. @ 0.1	3%
ACP TELEVISE AND E 368 LF OF 36—INCH TARY SEWER									
OUND ABOVE SANITARY SEWER /ERT ELEVATION OF SANITARY SEWE	R								
770.89 770.89 779.7 770.89	770.89 783.5 770.83	784.3	770.77	770.70	770.64	780.3 770.57	782.7		770.44
	-00 + <b>50</b>	16+			+00	I	18+C	00	
STA. 10+50 TO 20 EXISTINC SCALE: 1" = 40'	G SANITA	RY SE	NER PR	OFILE					
0 20 40 VERT SCALE: 1" = 4'	80								

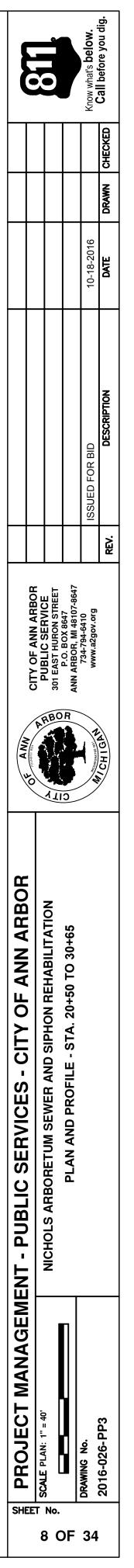
) 20 40 80 VERT SCALE: 1" = 4'

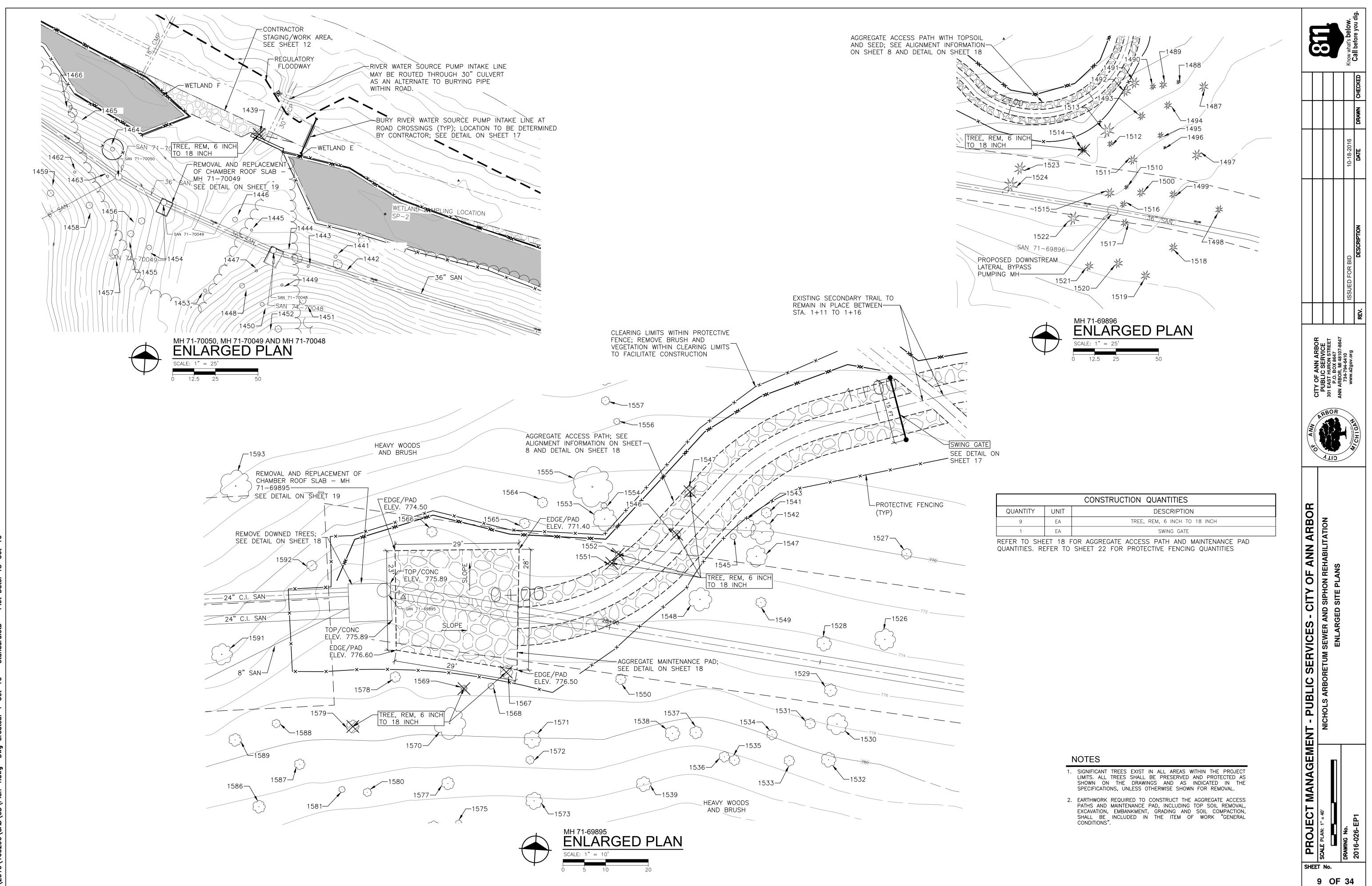




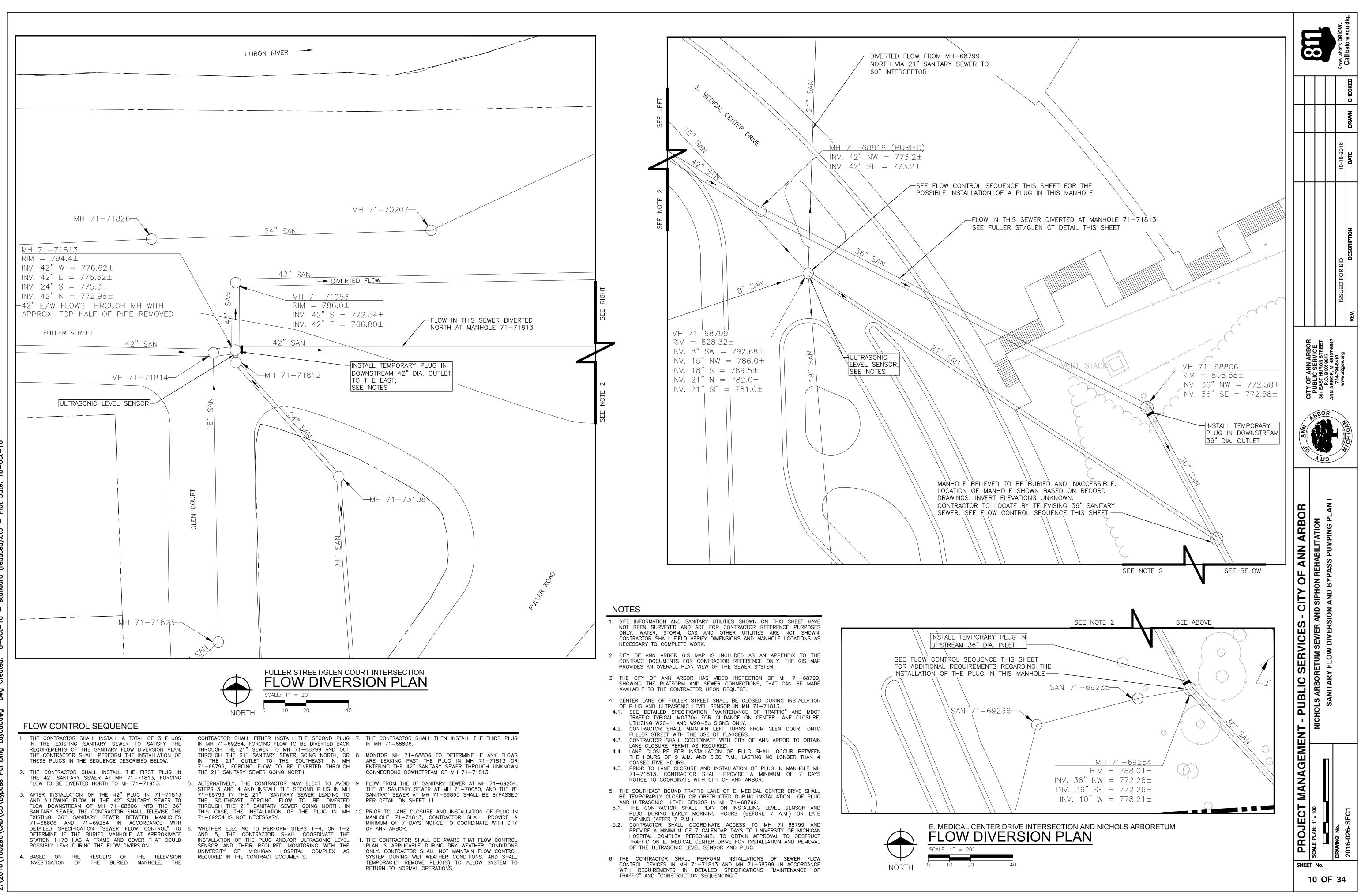
								AGGF
	REMOVAL AND RE	PLACEMENT OF SLAB – MH			•			ON S
VY WOODS BRUSH	71-69895 SEE NOTE 4			AGGREGATE ÁCCÈSS ALIGNMENT TABLE TH	IS SHEET 🕂			
			SAN 71-6	AND DETAIL ON SHEE			A W - W	
				e e e e e e e e e e e e e e e e e e e		x 100 x		4. 190 - 2000
			= =					
				× ***		<u>○</u> <u>→</u> <u>→</u> <u>→</u> <u>→</u> <u>→</u> <u>→</u> <u>→</u>		
			0					
		AGGREGATE MAINTEN	ANCE PAD,		0	1		SA
	P	SEE DETAIL ON SHE		Survey of the second se		ARGED PLAN ET NO. 9	LATERAL E	D DOWNSTI BYPASS PU NOTE 6—
SAN 71-695	000-				OXIMATE WOOD			BER 318,
					BETWEEN MAN SURVEYED)	HULES		O' WIDE SA EWER EASE
$\frown$	STA. 20+50 TO 30-	$\sim$			QUANT		CONSTRUC	
	SCALE: 1" = 40'		AT SEV		1,25	6 LF	PAC	DI CLEAN 24- CP TELEVISE
NORTH	0 20 40	80			337	LF	PACP	CLEAN 36-IN
					68 3 1	LF EA LS	LEVEL	PP LINE 36- . 2 MACP INS _ CLEAN & II
						LS		_ CLEAN & II
				+ + + + + + + + + + + + + + + + + + + +	1	EA EA		SEWER I
	EX GROUND ABC	VE EX SANITARY SEV	WER-	5 STA 27 5 STA 27 5 STA 27 767.81 767.81 775.00				
		SPECIAL CLEAN &		71-69895 = 776.56 24" W = 36" SW = 36" E =				
								VEL 2 MAC SPECT MAN
POSSIBLE EXPOSED PIF	PE SECTION							
			/					
						269 LF OF 36"	'CONC SAN. @ 0.15%	
						269	EAN AND PACP TE 9 LF OF 36-INCE	ELEVISE
24" C.I. SAN. @ -2.79%	530 LF OF 24" C.I. S	SAN. @ -2.75%					NITARY SEWER	—
		-EX GROUND ABOVE	SANITARY SE	WER				
		EX INVERT ELEVATIO	ON OF SANITA	RY SEWER				
765.1 760.95 765.8	762.34 765.0 763.73	765.13	767.9 <b>766.52</b>	775.8 767.79	774.2 767.73	775.1 767.66	775.0	774.8 <b>767.51</b>
25+00	26+00	· · · · · · · · · · · · · · · · · · ·	27+00		28+00	7	29+00	76
	STA. 20+50 TO 30 EXISTINO	5 SANITAF	RY SEV		ILE			
	SCALE: 1" = 40'	80						
	VERT SCALE: $1" = 4'$							

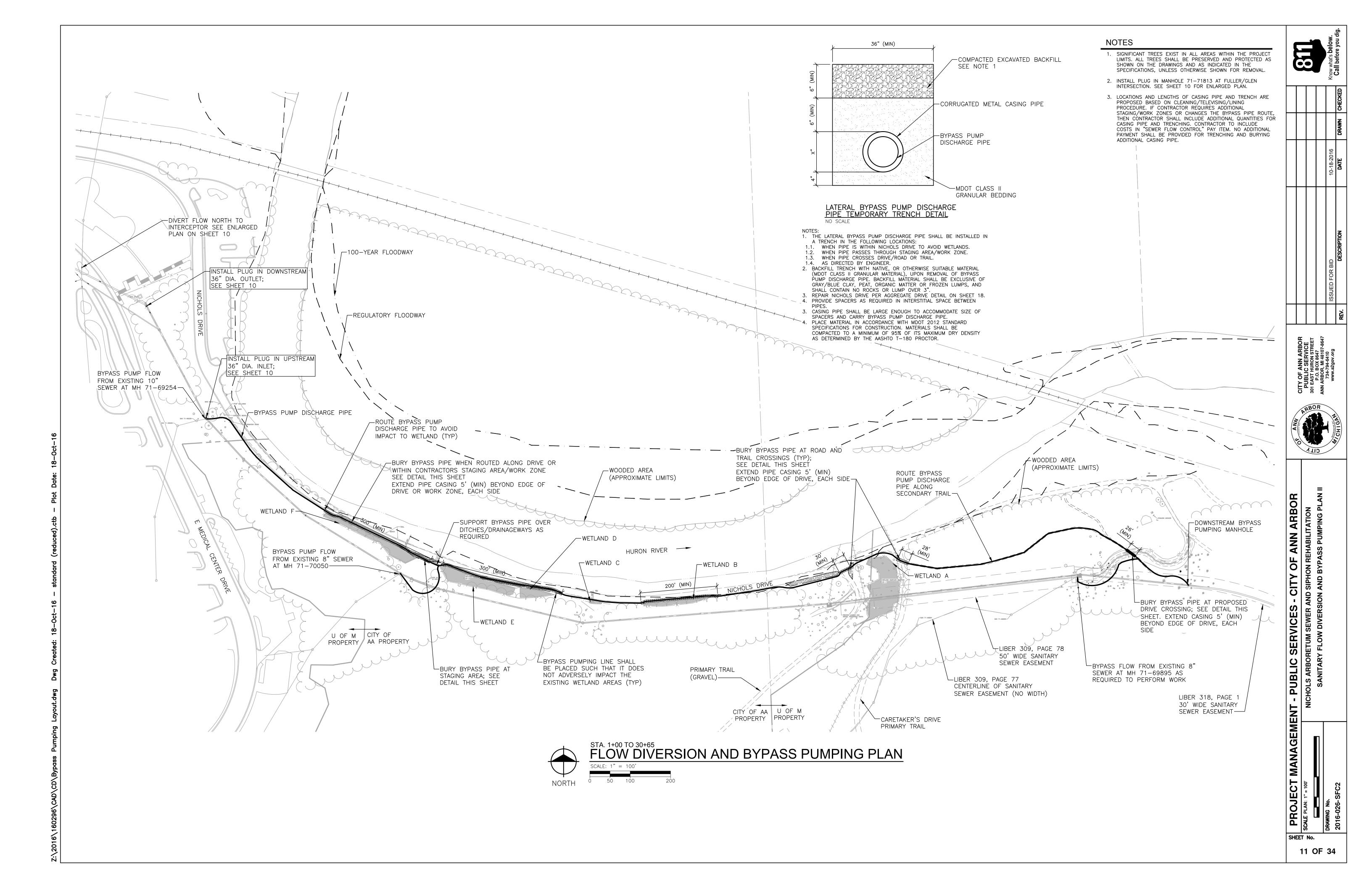


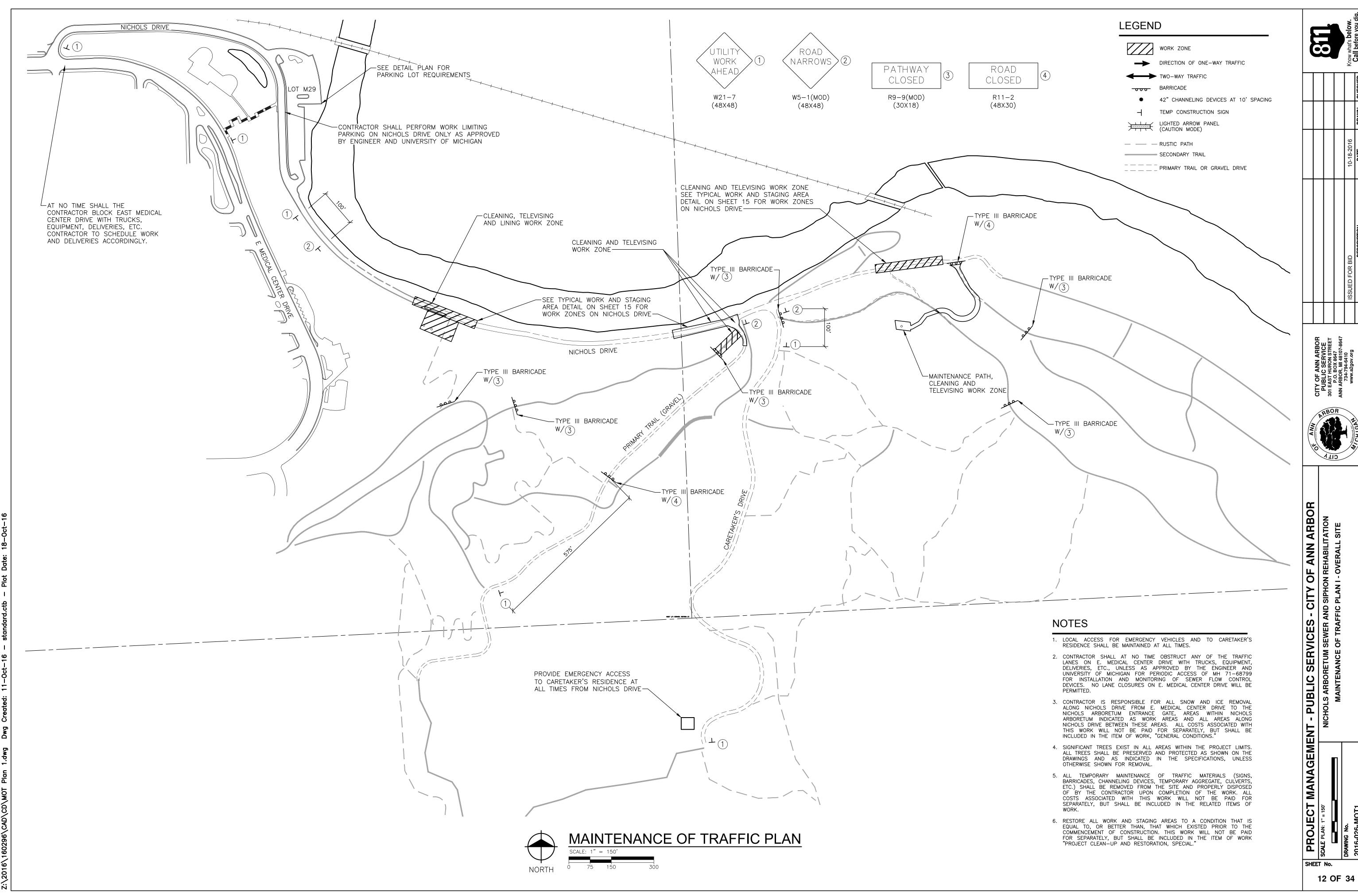


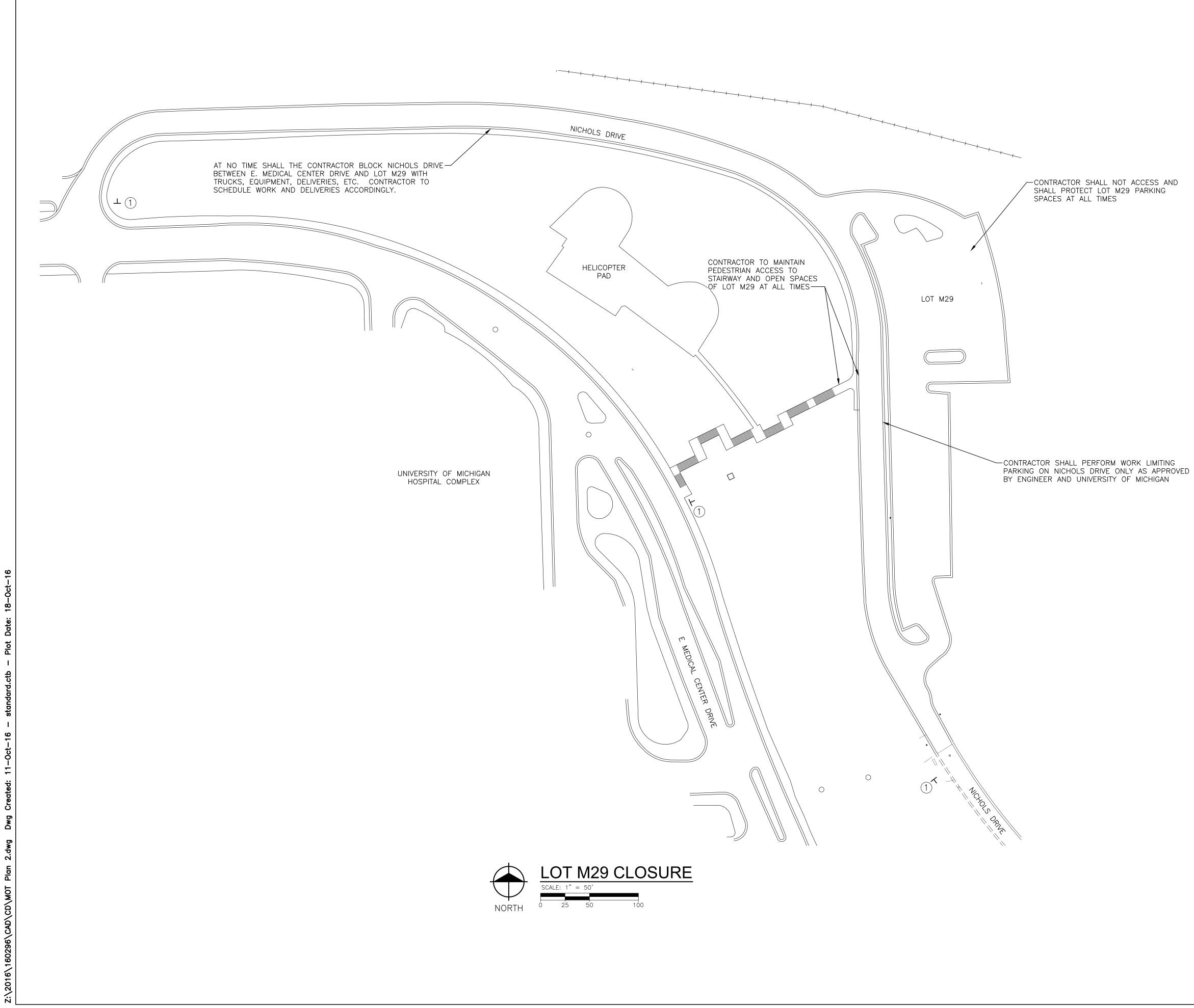


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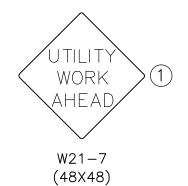






### LEGEND

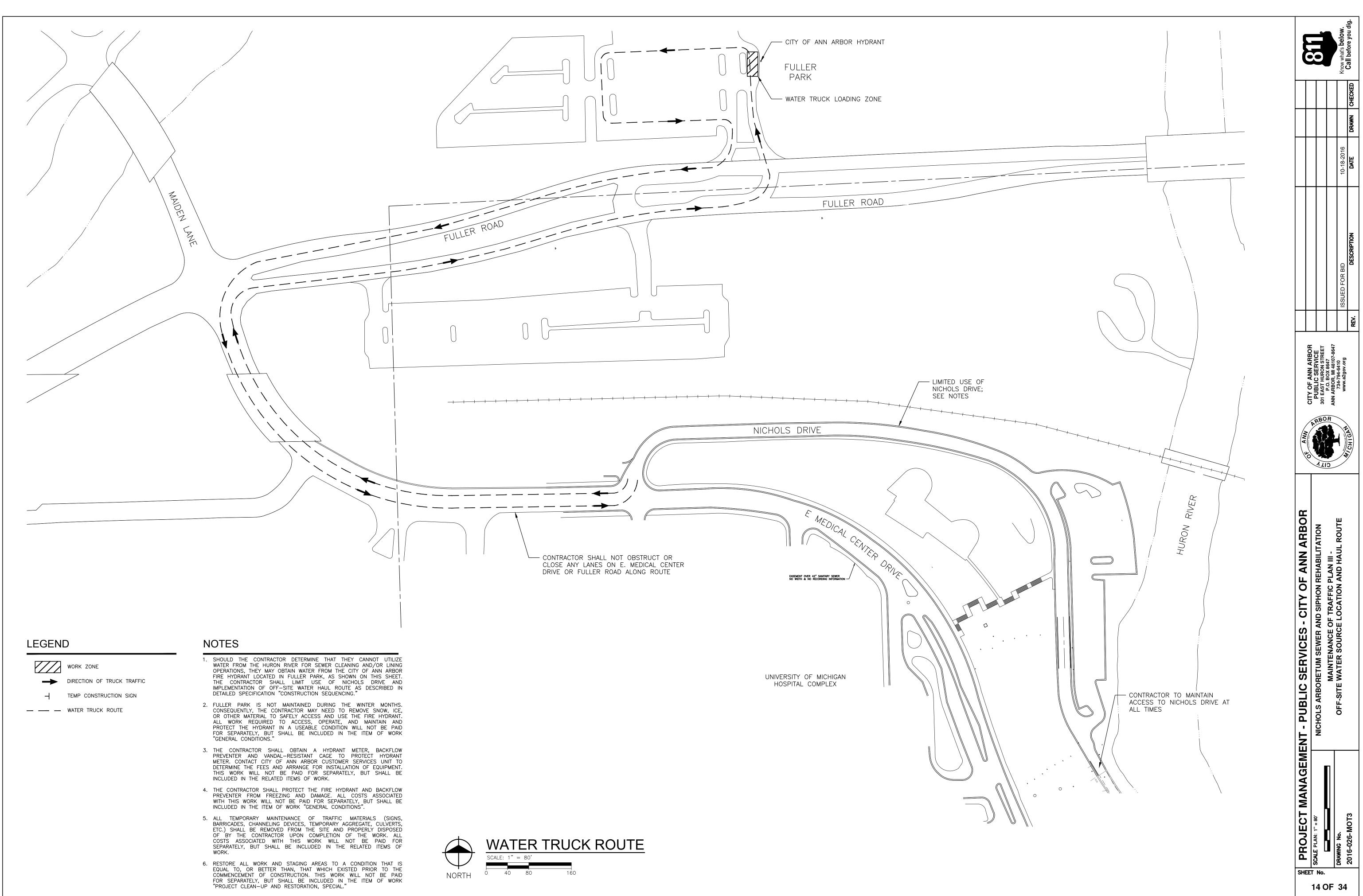
	WORK ZONE
$\rightarrow$	DIRECTION OF ONE-WAY TRAFFIC
$\leftrightarrow$	TWO-WAY TRAFFIC
-000-	BARRICADE
۲	42" CHANNELING DEVICES AT 10' SPACING
4	TEMP CONSTRUCTION SIGN
<del>}</del> €	LIGHTED ARROW PANEL (CAUTION MODE)

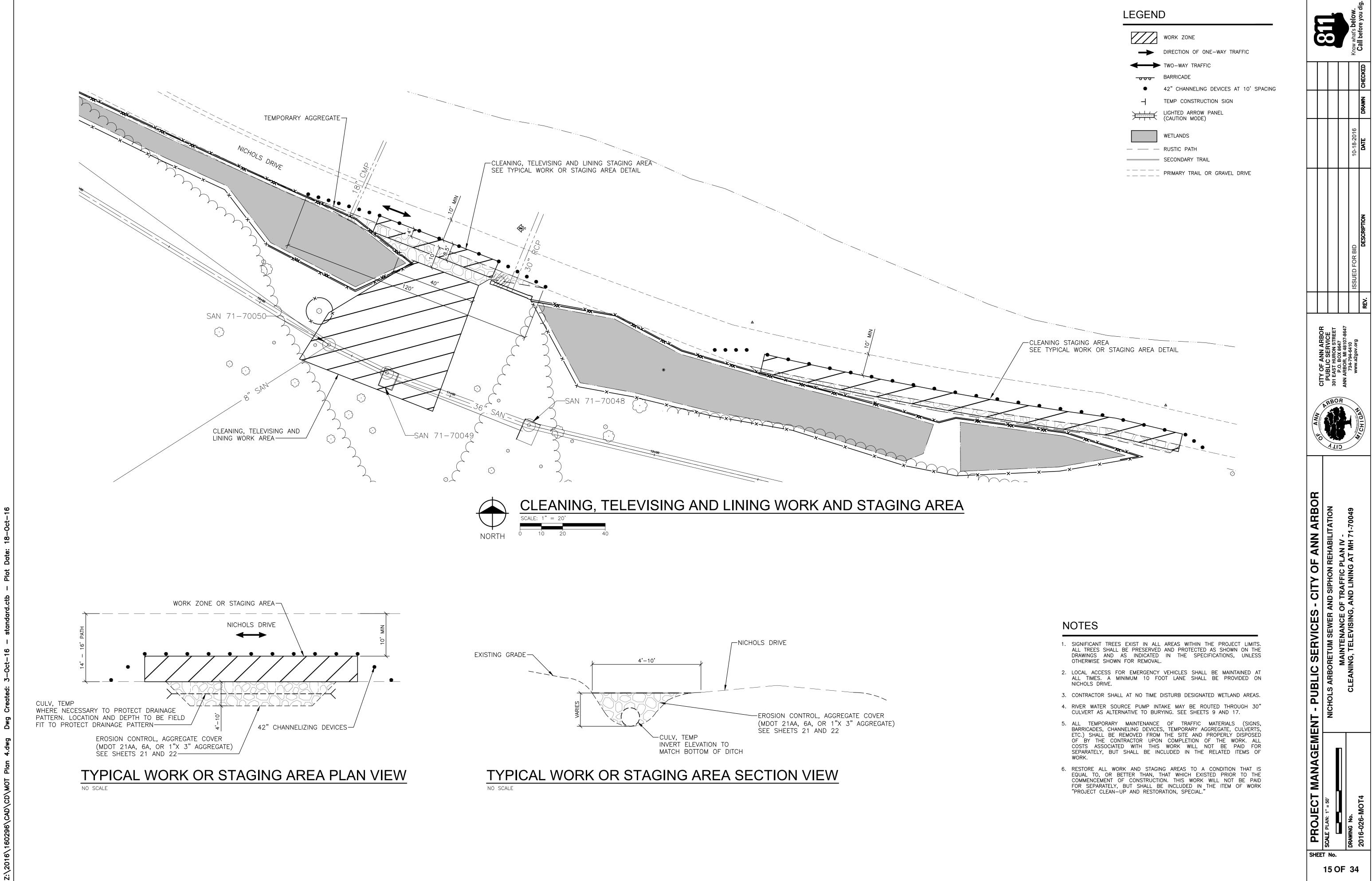


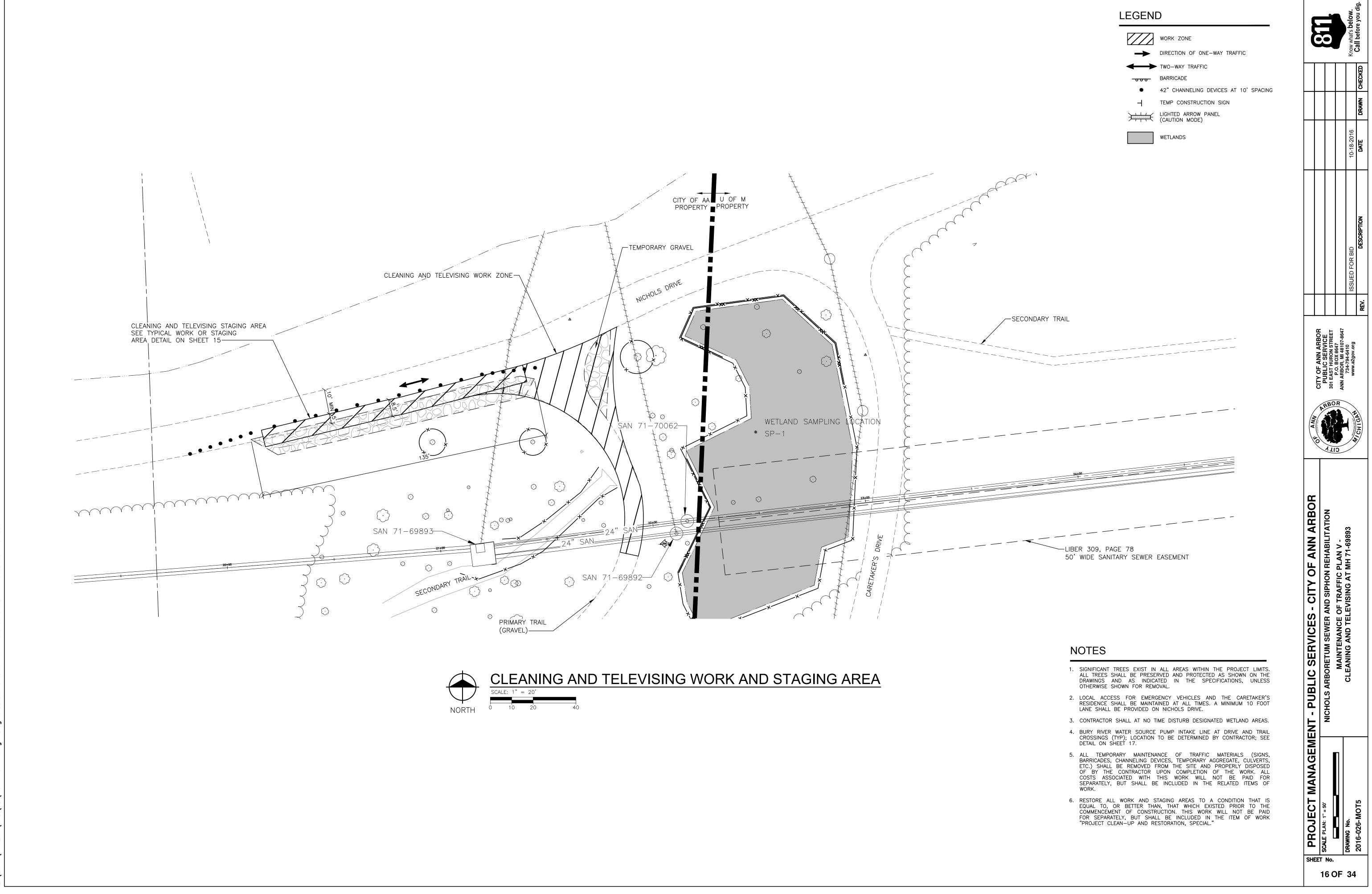
### NOTES

- 1. LOCAL ACCESS FOR EMERGENCY VEHICLES AND TO CARETAKER'S RESIDENCE SHALL BE MAINTAINED AT ALL TIMES.
- 2. CONTRACTOR SHALL AT NO TIME OBSTRUCT ANY OF THE TRAFFIC LANES ON E. MEDICAL CENTER DRIVE WITH TRUCKS, EQUIPMENT, DELIVERIES, ETC., UNLESS AS APPROVED BY THE ENGINEER AND UNIVERSITY OF MICHIGAN FOR PERIODIC ACCESS OF MH 71-68799 FOR INSTALLATION AND MONITORING OF SEWER FLOW CONTROL DEVICES. NO LANE CLOSURES ON E. MEDICAL CENTER DRIVE WILL BE PERMITTED.
- 3. CONTRACTOR IS RESPONSIBLE FOR ALL SNOW AND ICE REMOVAL ALONG NICHOLS DRIVE FROM E. MEDICAL CENTER DRIVE TO THE NICHOLS ARBORETUM ENTRANCE GATE, AREAS WITHIN NICHOLS ARBORETUM INDICATED AS WORK AREAS AND ALL AREAS ALONG NICHOLS DRIVE BETWEEN THESE AREAS. ALL COSTS ASSOCIATED WITH THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK, "GENERAL CONDITIONS."
- 4. SIGNIFICANT TREES EXIST IN ALL AREAS WITHIN THE PROJECT LIMITS. ALL TREES SHALL BE PRESERVED AND PROTECTED AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS, UNLESS OTHERWISE SHOWN FOR REMOVAL.
- 5. ALL TEMPORARY MAINTENANCE OF TRAFFIC MATERIALS (SIGNS, BARRICADES, CHANNELING DEVICES, TEMPORARY AGGREGATE, CULVERTS, ETC.) SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR UPON COMPLETION OF THE WORK. ALL COSTS ASSOCIATED WITH THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.
- 6. RESTORE ALL WORK AND STAGING AREAS TO A CONDITION THAT IS EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "PROJECT CLEAN-UP AND RESTORATION, SPECIAL."

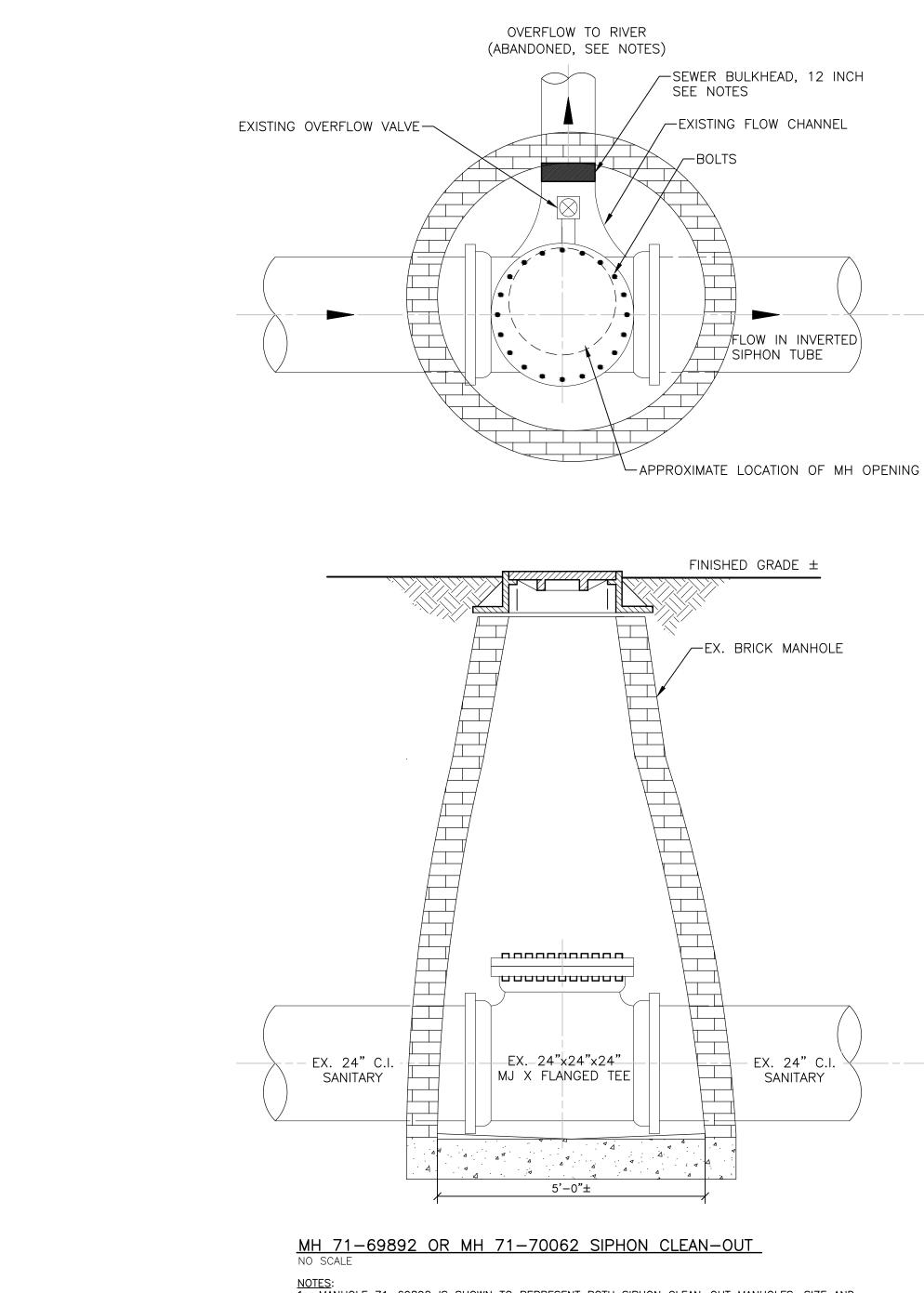
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	<b>2 PROJECT MANAGEME</b>	MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARROR	ANN					
5			CITY OF ANN ARROR					
3		NICHOLS ARBORETUM SEWER AND SIPHON REHABILITATION						
)F		MAINTENANCE OF TRAFFIC PLAN II - LOT M29	O 20 20 204 20 204 204 204 204 204 204 20					
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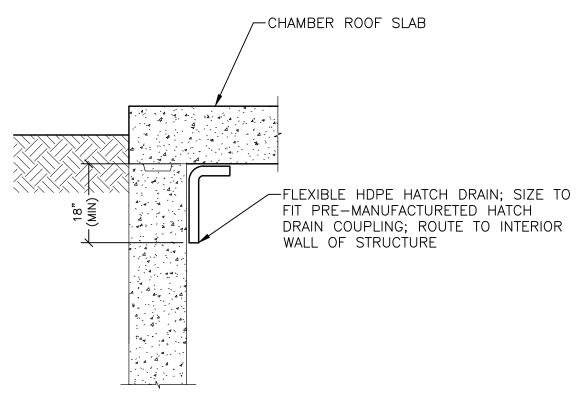




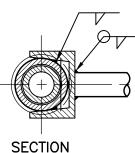
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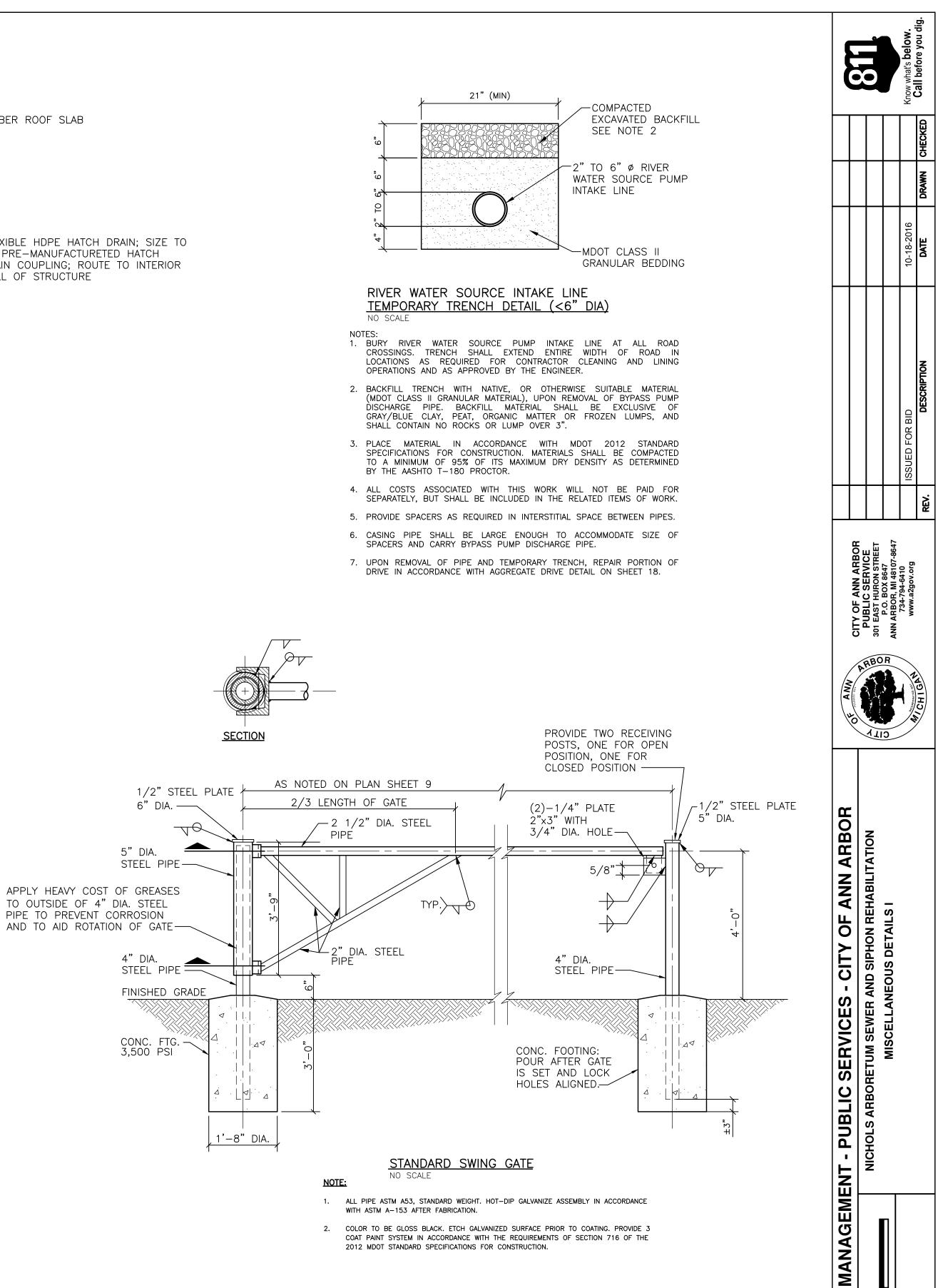


- NOTES: 1. MANHOLE 71-69892 IS SHOWN TO REPRESENT BOTH SIPHON CLEAN-OUT MANHOLES. SIZE AND DIMENSIONS OF MH 71-70062 ARE SIMILAR.
- 2. CONTRACTOR MAY USE SIPHON CLEAN-OUT MANHOLES FOR CLEANING AND TELEVISING ACCESS.
- 3. PRIOR TO REMOVING FLANGE TO PERFORM ANY CLEANING AND TELEVISING, CONTRACTOR SHALL FIELD VERIFY THAT OVERFLOW TO RIVER IN MH 71-69892 IS ABANDONED AND INSTALL SEWER BULKHEAD, 12 INCH.
- 4. MANHOLES ARE LOCATED NEAR WETLAND A. ALL WORK PERFORMED IN AND AROUND THESE MANHOLES SHALL BE PERFORMED OUTSIDE OF THE WETLAND PROTECTION FENCING.
- 5. AT NO TIME IS CONTRACTOR ALLOWED TO REMOVE MANHOLE FRAME AND COVER OR EXCAVATE AROUND THE MANHOLE. CONTRACTOR MAY REMOVE EXISTING BLIND FLANGE ONLY FOR ACCESS OF PIPE AND SHALL RE-INSTALL BLIND FLANGE UPON COMPLETION OF THE WORK. CONTRACTOR SHALL NOTE THAT FLANGE CAP HAS NOT BEEN REMOVED IN A LONG TIME AND BOLTS MAY BE CORRODED AND DAMAGED.
- 6. CONTRACTOR SHALL REMOVE BLIND FLANGE ONLY AFTER REDUCING FLOW AND LOWERING WATER LEVEL IN SIPHON CHAMBERS AND PIPES TO LEVEL THAT DOES NOT CAUSE SEWAGE AND DEBRIS TO RISE IN THE MANHOLE AND OVERFLOW INTO THE ARBORETUM OR RIVER.



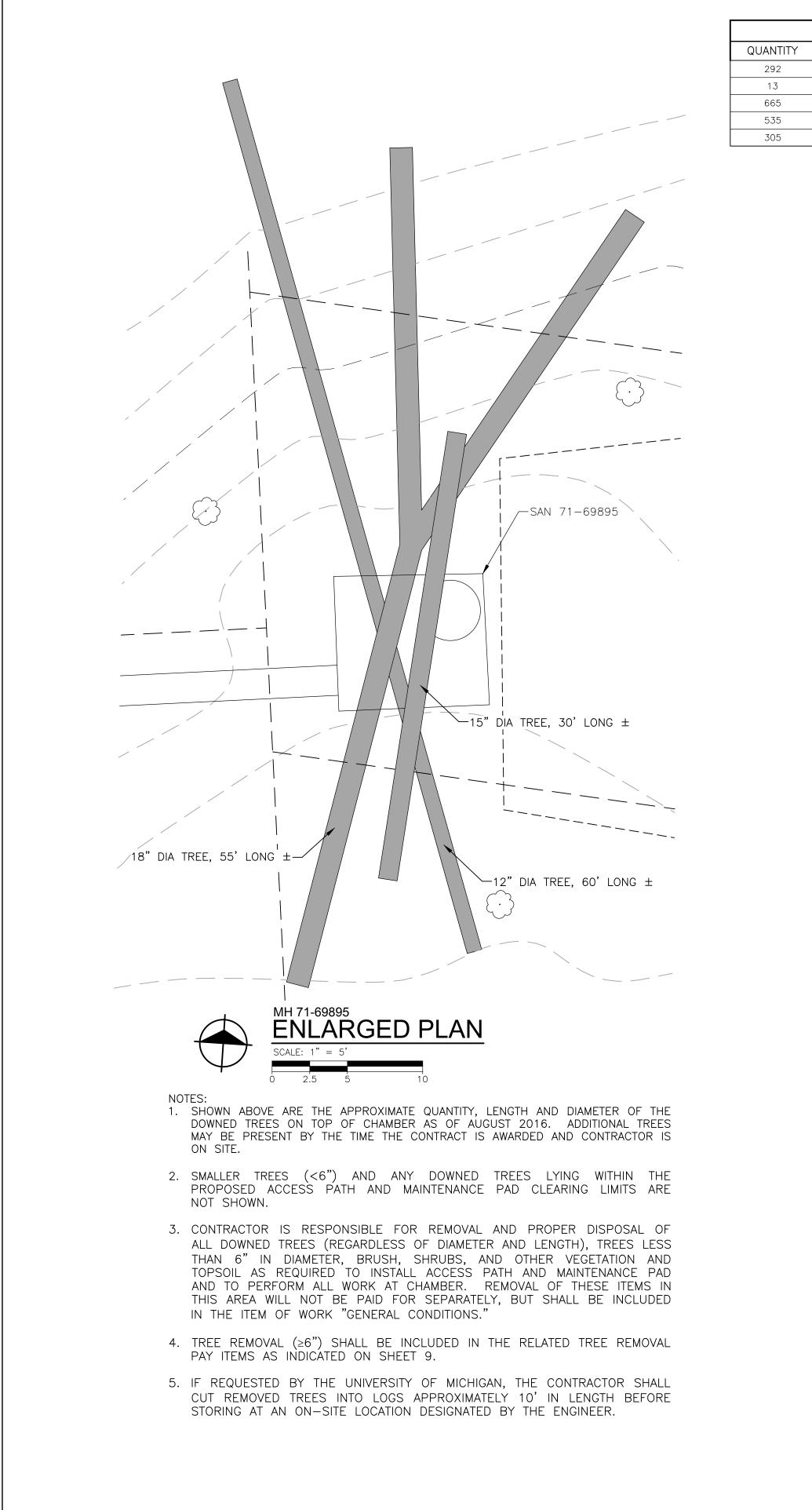
HATCH DRAIN OUTLET NO SCALE



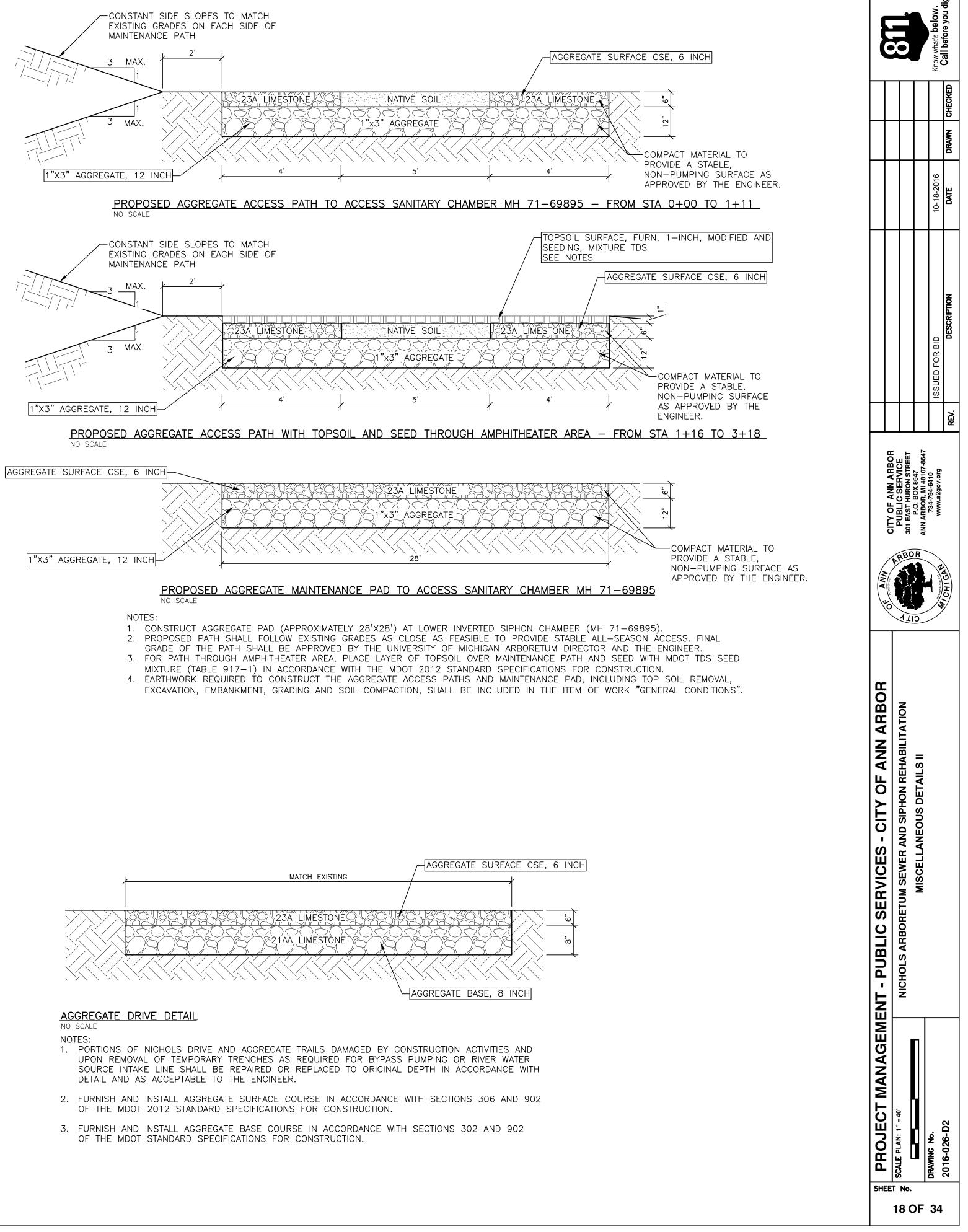


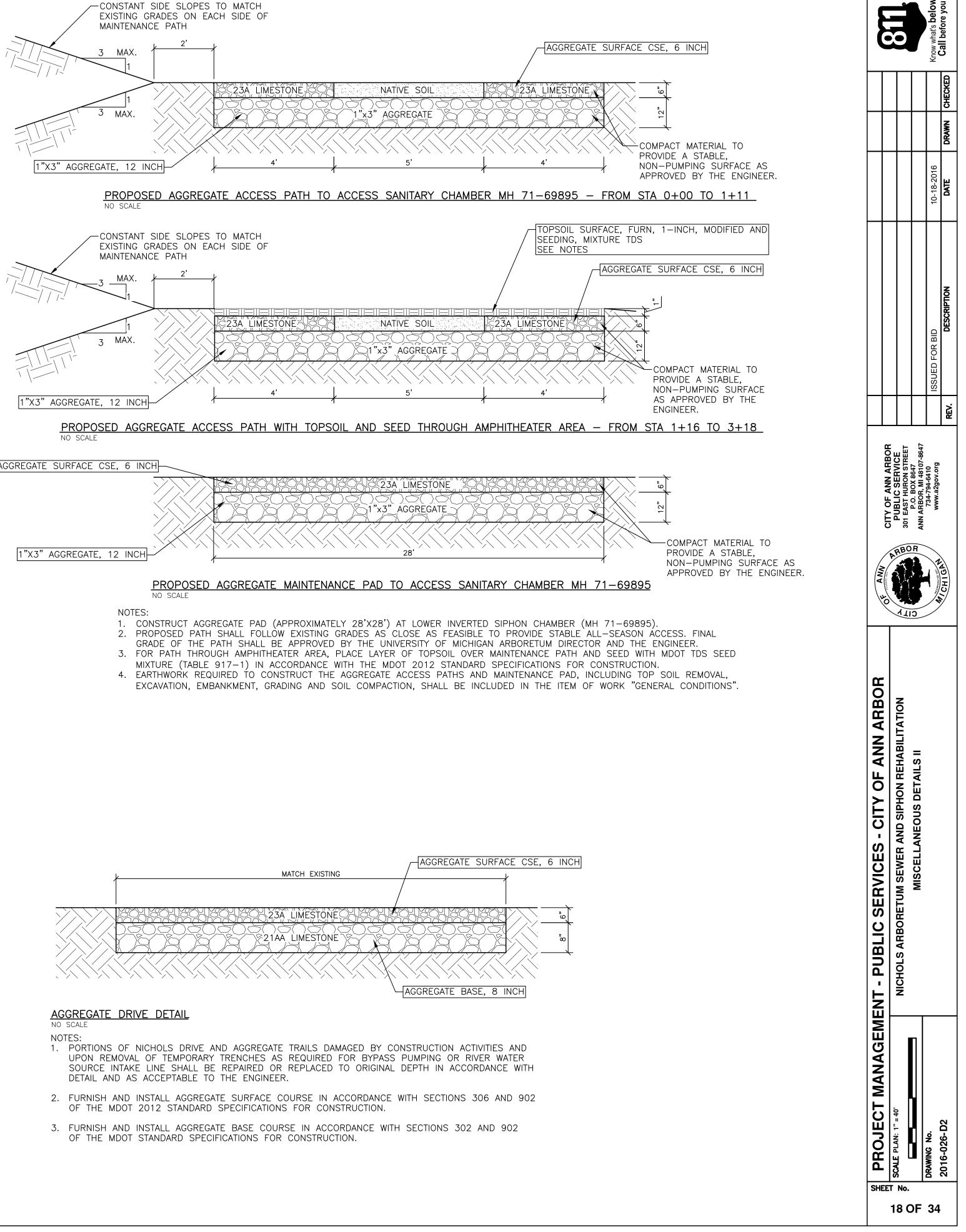
## 17 OF 34

SHEET No.

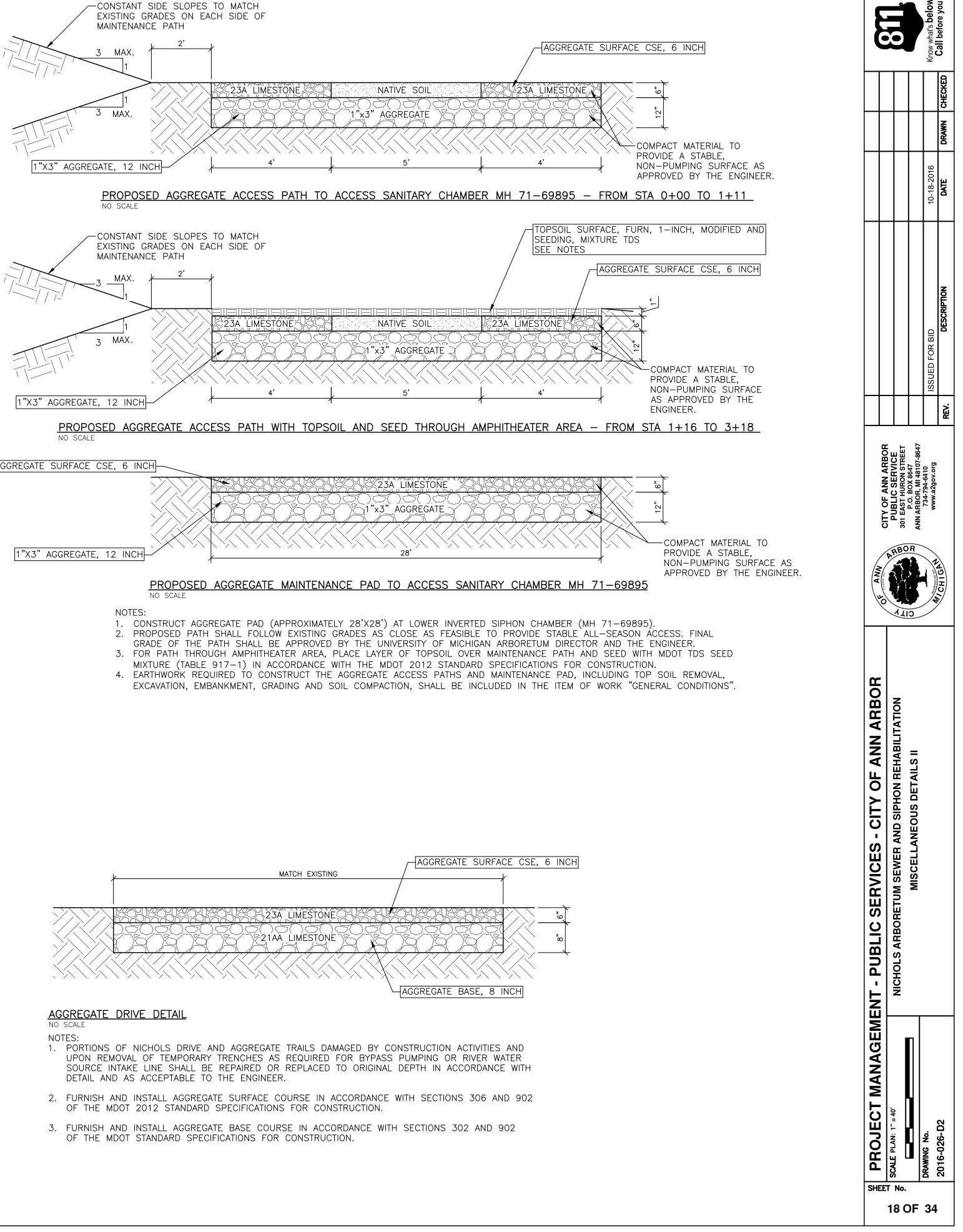


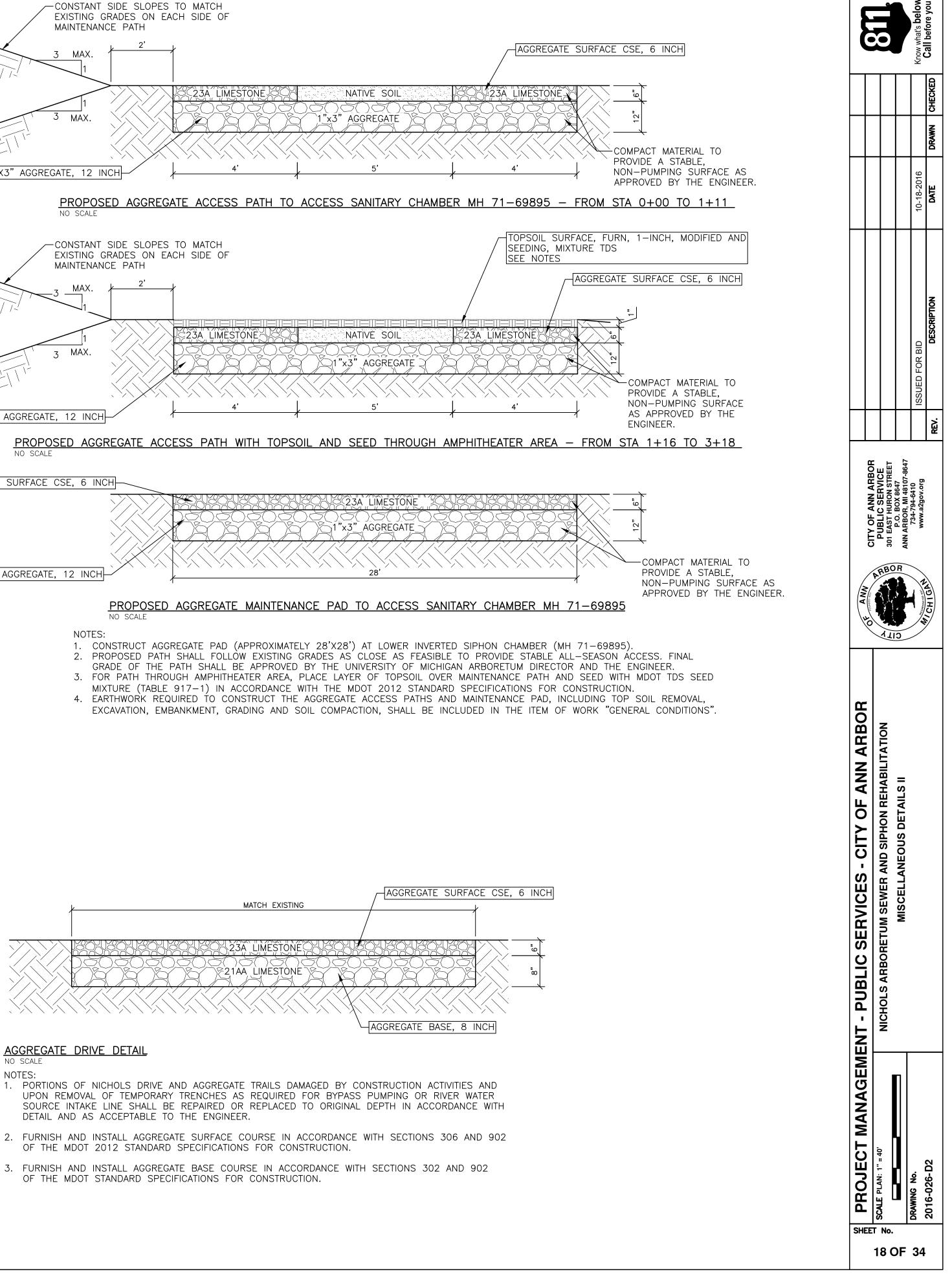
CONSTRUCTION QUANTITIES						
JNIT	DESCRIPTION					
SY	TOPSOIL SURFACE, FURN, 1-INCH, MODIFIED					
LB	SEEDING, MIXTURE TDS					
SY	AGGREGATE SURFACE CSE, 6 INCH					
SY	1"X3" AGGREGATE, 12 INCH					
SY	AGGREGATE BASE, 8 INCH					











# **GENERAL NOTES**

### GENERAL NOTES:

- INFORMATION ON THIS SHEET SUPPLEMENTS THE DETAILED SPECIFICATIONS, REFER TO THE DETAILED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- RECORD DRAWINGS OF CHAMBERS ARE NOT AVAILABLE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS OF PROPOSED ROOF SLAB FOR ENGINEER REVIEW. ALTERATIONS TO A STRUCTURAL ITEM OR MEMBER SHALL ONLY BE MADE AFTER APPROVAL BY THE ENGINEER.
- DRAWINGS HAVE BEEN SET UP TO PLOT AS INTENDED WHEN PLOTTED AS FULL SIZE DRAWINGS. USE OF REDUCED SIZE DRAWINGS SHALL BE AT CONTRACTOR'S RISK.
- COORDINATE WORK OF ALL TRADES. NOTIFY ENGINEER OF ANY VARIANCE BEFORE WORK BEGINS.
- CONTRACTOR SHALL FIELD VERIFY CHAMBER DIMENSIONS TO COORDINATE SIZE AND LOCATION OF ALL SLAB OPENINGS.
- 6. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS NOT INDICATED.
- DESIGN DRAWINGS SHALL NOT BE USED AS SHOP AND/OR ERECTION DRAWINGS. SHOP DRAWINGS SHALL BE DETAILED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN.

### DESIGN DATA:

DESIGN STRESSES		
CONCRETE REINFORCINGFY=	60,000	PSI
CONCRETE		
EXTERIOR SLABSf'c=	4,000	PSI

### CONCRETE NOTES:

- 1. COORDINATE SIZE, LOCATION AND PLACEMENT OF EMBEDDED ITEMS (PLATES, HARDWARE, PIPE SLEEVES, ETC.) WITH ALL RESPECTIVE TRADES.
- 2. EMBEDDED ITEMS SHALL BE SECURELY PLACED PRIOR TO PLACING CONCRETE.
- 3. CORING OR CUTTING CONCRETE SHALL NOT BE PERMITTED UNLESS APPROVED BY ENGINEER.
- 4. IF DRILLING OR CUTTING INTO HARDENED CONCRETE IS REQUIRED, FIELD LOCATE REINFORCEMENT WITH A REBAR DETECTOR TO AVOID DAMAGING THE REBAR.
- 5. UNLESS NOTED OTHERWISE, PROVIDE CLEAR COVER TO REINFORCING BARS AS SCHEDULED, SEE SCHEDULE THIS SHEET.
- 6. UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTH, IN INCHES, SHALL BE AS SCHEDULED, SEE SCHEDULE THIS SHEET.
- 7. UNLESS NOTED OTHERWISE, PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES.
- 8. UNLESS NOTED OTHERWISE, DOWELS AND BENT BARS TO HAVE STANDARD ACI/CRSI 90 OR 180 DEGREE BEND AS INDICATED.
- 9. OPENINGS REQUIRED FOR SLABS AND WALLS REQUIRE ADDITIONAL REINFORCING AROUND THE PERIMETER AS INDICATED ON THE PLANS.
- 10. ALL STEEL REINFORCING SHALL BE GRADE 60 AND BE EPOXY COATED. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 905 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

# SCHEDULES / DIAGRAMS

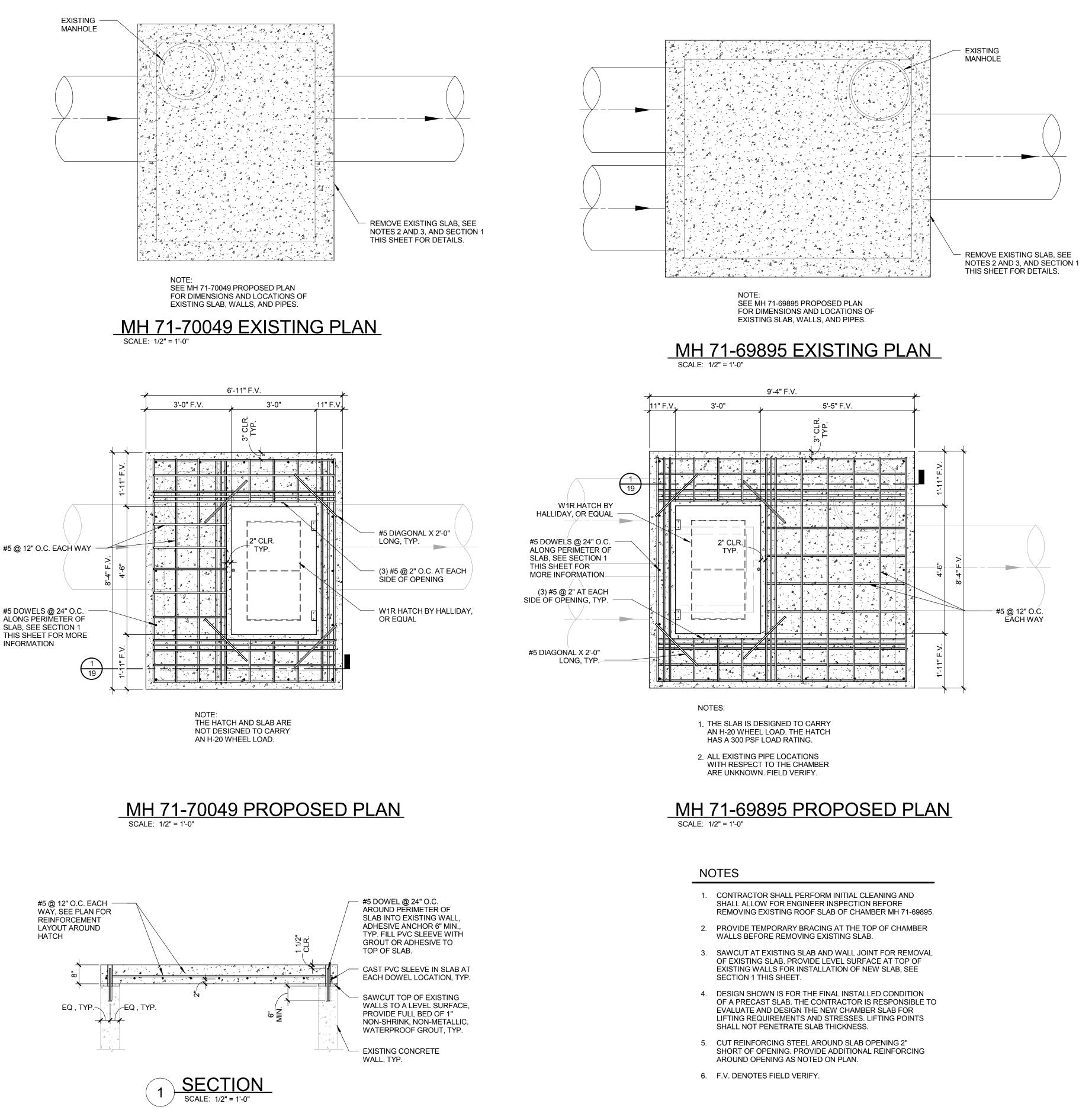
CONCRETE REINFORCEMENT COVER RI	EQUIREMENTS
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH, LIQUID, WEATHER OR CAST AGAINST A CONCRETE WORK MAT: SLABS AND JOISTS: BEAMS AND COLUMNS: STIRRUPS, SPIRALS, AND TIES: PRIMARY REINFORCEMENT: WALLS: FOOTINGS AND BASE SLABS: FORMED SURFACES: TOP OF FOOTINGS AND BASE SLABS:	2" 2" 2 1/2" 2" 2" 2"

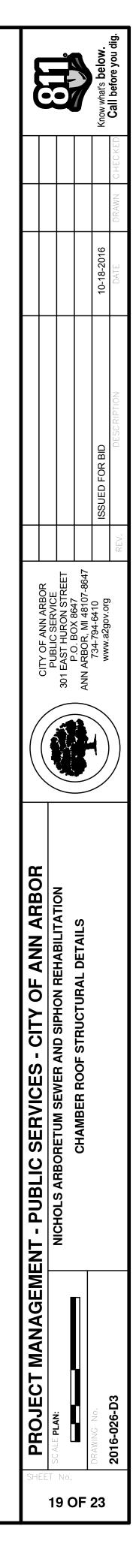
EPOXY COATED CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE (INCHES)						
BAR	BEAMS & (	COLUMNS	WALLS	& SLABS		
SIZE	TOP BARS	OTHERS	TOP BARS	OTHERS		
3	56	50	20	16		
4	68	60	26	19		
5	78	69	33	24		
6	88	77	36	34		
7	147 130 52 51					
8	158 140 59 56					
9	168 149 65 64					
10	176 155 73 71					
11	184	162	81	77		

### NOTE:

TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TOP BARS. VERTICAL BARS ARE OTHER BARS.

INFORMATION





GENERAL NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6430, EXT. 42592. 1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER. 2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. 3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR. 4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS. 5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED. 6. FINAL RESTORATION OF ALL DISTURBED AREAS, INCLUDING SEED, FERTILIZER AND EROSION CONTROL MULCH BLANKET AND/OR SOD, SHALL BE PERFORMED BY THE CONTRACTOR PRIOR TO FINAL COMPLETION. 7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS. 8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION. 9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE GRANTED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED. 11. THE CONTRACTOR SHALL NOT GRADE ONTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES. 12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE. 13. DISTANCE TO NEAREST WATER OF THE STATE: 50 FEET TO HURON RIVER. 14. THE CONTRACTOR SHALL TAKE MEASURES TO REDUCE AND CONTROL EMISSIONS AND NOISE FROM CONSTRUCTION EQUIPMENT AND VEHICLES USED ON-SITE AND DURING TRANSPORTING TO/FROM SITE. SEQUENCE OF EROSION CONTROL MEASURES: THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT. SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS: 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, SAFETY/CONSTRUCTION FENCING, MUD MATS, CULVERT SEDIMENT TRAPS, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION. 1.2. REMOVE TREES MARKED FOR REMOVAL, REMOVE DOWNED TREES WITHIN WORK ZONES AND STAGING AREAS, CLEAR BRUSH WITHIN CLEARING LIMITS AND TRIM BRANCHES. TREE AND BRANCH TRIMMING SHALL BE APPROVED BY THE ENGINEER AND UNIVERSITY OF MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL OFFICIALS PRIOR TO BEGINNING WORK. 1.3. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE WITH SILT FENCE AS REQUIRED. ADDITIONAL MEASURES MAY BE REQUIRED TO MINIMIZE EROSION. STOCKPILE TOPSOIL IN AREAS APPROVED BY THE ENGINEER. CONTRACTOR SHALL SALVAGE AND RE-USE EXISTING TOPSOIL TO THE GREATEST EXTEND POSSIBLE. 1.4. PERFORM CLEANING, TELEVISING AND SEWER AND SIPHON REHABILITATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 1.5. COMPLETE WORK OPERATIONS IN ACCORDANCE WITH CONSTRUCTION SEQUENCE CONTAINED WITHIN THE SPECIAL PROVISION ENTITLED "CONSTRUCTION SEQUENCING" CONTAINED IN THE CONTRACT DOCUMENTS. 1.6. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY. 1.7. GRADE, RE-SPREAD EXISTING TOPSOIL REMOVING ROCKS OVER 2" IN DIAMETER, PLACE ADDITIONAL TOPSOIL (AS NEEDED), PLACE PERMANENT SEEDING, AND FURNISH, INSTALL AND ANCHOR EROSION CONTROL MULCH BLANKET IN ALL DISTURBED AREAS. 1.8. REFER TO DETAILED SPECIFICATION "PROJECT CLEAN-UP & RESTORATION, SPECIAL" FOR PERMANENT SITE STABILIZATION.

- OFFICIALS.
- ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION.

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

### TEMPORARY SEEDING:

- SOIL EROSION AND SEDIMENTATION CONTROL OFFICIALS OR ENGINEER.
- COMPLETION IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TEMPORARY SEEDING, AND MULCH = \$25,000ESTIMATE OF EXCAVATION AND FILL FROM EXISTING TO FINAL GRADE: • EXCAVATION = 0 CY, FILL = 0 CY

- ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN: • BnB – BOYER LOAMY SAND, 1 TO 6 PERCENT SLOPES
- Fd FILL LAND
- FoC FOX SANDY LOAM, 6 TO 12 PERCENT SLOPES • MmC - MIAMI LOAM, 6 TO 12 PERCENT SLOPES
- So SLOAN SILT LOAM, WET • W – WATER
- LOCAL IMPORTANCE. 0 TO 4 PERCENT SLOPES.

IMPERVIOUS PROJECT AREA PRIOR TO CONSTRUCTION VS. POST CONSTRUCTION = NO CHANGE

AREA OF PROPOSED DISTURBANCE = 0.50 ACRES (~21780 SF)

SIGNIFICANT TREES EXIST IN ALL AREAS WITHIN THE PROJECT LIMITS. ALL TREES SHALL BE PRESERVED AND PROTECTED AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS, UNLESS OTHERWISE SHOWN FOR REMOVAL

1.9. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE ENGINEER AND UNIVERSITY OF MICHIGAN'S SOIL EROSION AND SEDIMENTATION CONTROL

1.10. ALL TEMPORARY SOIL EROSION CONTROL MEASURES, INCLUDING TEMPORARY AGGREGATE FOR TYPICAL WORK OR STAGING AREAS, MUST BE REMOVED, WITH

1. THE CONTRACTOR SHALL TEMPORARY TOP SOIL AND SEED DISTURBED AREAS AS REQUIRED AND AS DIRECTED BY THE ENGINEER AND UNIVERSITY OF MICHIGAN

2. THE CONTRACTOR SHALL PERMANENT SEED DISTURBED AREAS AS INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

3. ANY DISTURBED AREA NOT PAVED, SEEDED OR MULCHED, BY SUBSTANTIAL

• WaA - WASEPI SANDY LOAM - DRAINAGEWAYS ON VALLEY TRAINS, FARMLAND OF

### MDEQ SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DETAIL	CHARACTERISTICS
1	Stripping & Stockpiling Topsoil	Topsoil may be stockpiled above borrow areas to act as a diversion Stockpile should be temporarily seeded
6	Seeding with Mulch and/or Matting	Facilitates establishment of vegetative cover Effective for drainageways with low velocity Easily placed in small quantities by inexperienced personnel Should include prepared topsoil bed See mulch Detail on Detail Sheet 23
10	Mulching	Used alone to protect exposed areas for short periods Protects soil from impact of falling rain Preserves soil moisture and protects germinating seed from temperature extremes
14	Aggregate Cover	Stabilizes soil surface, thus minimizing erosion Permits construction troffic in adverse weather May be used as part of permanent base construction of paved areas
42	Temporary Culvert	Eliminates stream turbulence and turbidity Provides unobstructed passage for fish and other water life Capacity for normal flow can be provided with storm water flowing over roadway
54	Geotextile Silt Fence	Use geotextile and posts or poles May be constructed or prepackaged Easy to construct and locate as necessary
57	Stabilized Construction Access	Used at every point where construction traffic enters or leaves a construction site. See Anti-Tracking Pad Detail on Detail Sheet 23.

SCHEDULE FOR SESC MEASURES						
CONTROL MEASURE INSTALL DATE REMOVE						
TOPSOIL STRIPPING & STOCKPILING	JAN/2017	MAY/2017				
PROTECTIVE FENCE	DEC/2016	MAY/2017				
SILT FENCE	JAN/2017	MAY/2017				
AGGREGATE COVER AND TEMPORARY CULVERT	JAN/2017	MAY/2017				
MULCHING	MAR/2017	MAY/2017				
SEEDING W/ MULCH	MAY/2017	_				
STABILIZED CONSTRUCTION ACCESS	DEC/2016	MAY/2017				

STRIPPING AND STOCKPILING TOPSOIL WILL NOT
BE PAID FOR SEPARATELY, BUT SHALL BE
INCLUDED IN THE RELATED ITEMS OF WORK.

SEEDING WILL BE PAID FOR AS "SEEDING, FESCUE LAWN MIXTURE" AND "SEEDING, MESIC WOODLAND MIXTURE". MULCHING WILL BE PAID FOR AS "MULCH BLANKET, HIGH VELOCITY". SHORT TERM MULCHING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEM "MULCH BLANKET. HIGH VELOCITY".

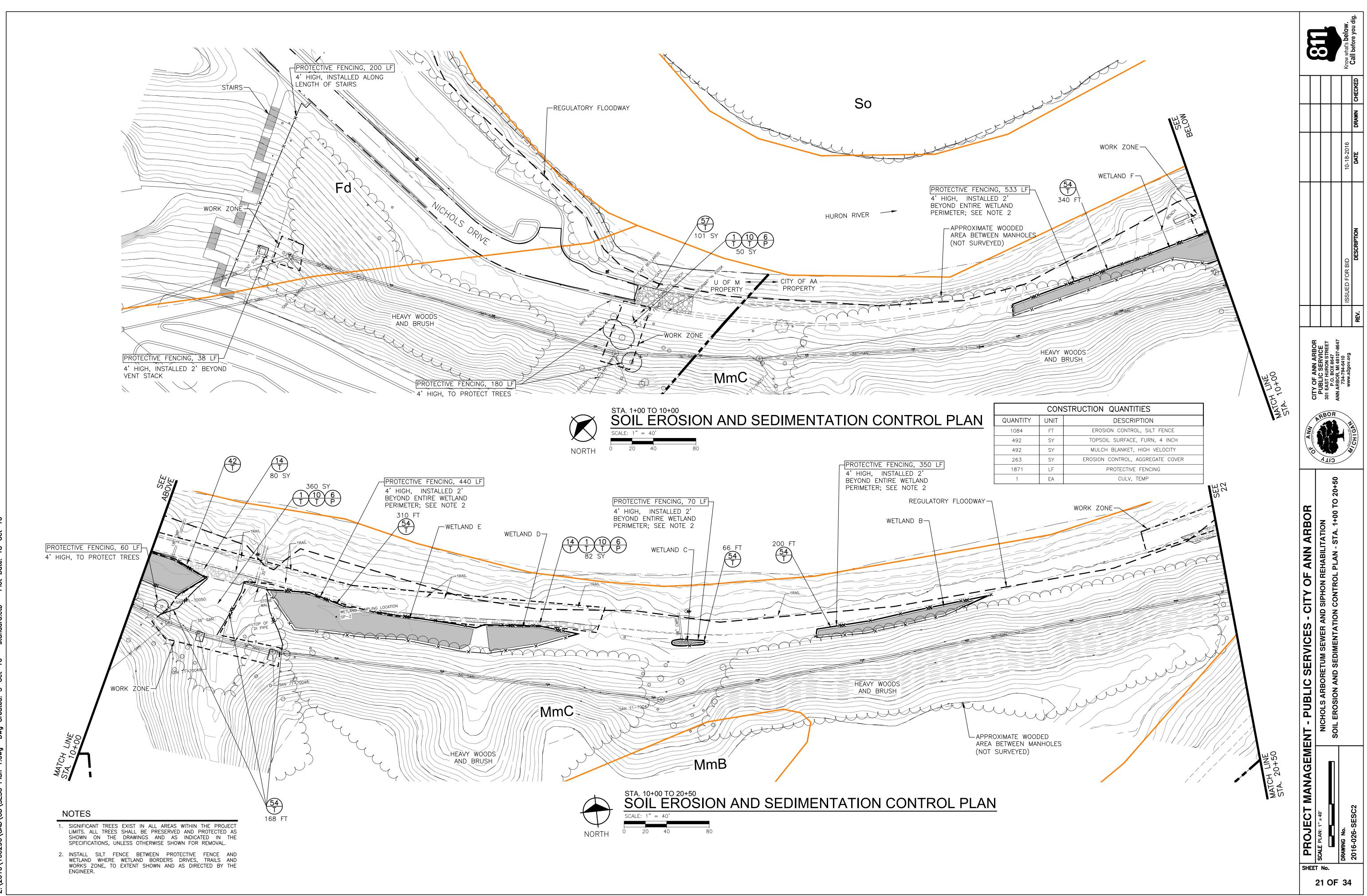
AGGREGATE COVER WILL BE PAID FOR AS "EROSION CONTROL, AGGREGATE COVER".

TEMPORARY CULVERT WILL BE PAID FOR AS "CULV, TEMP".

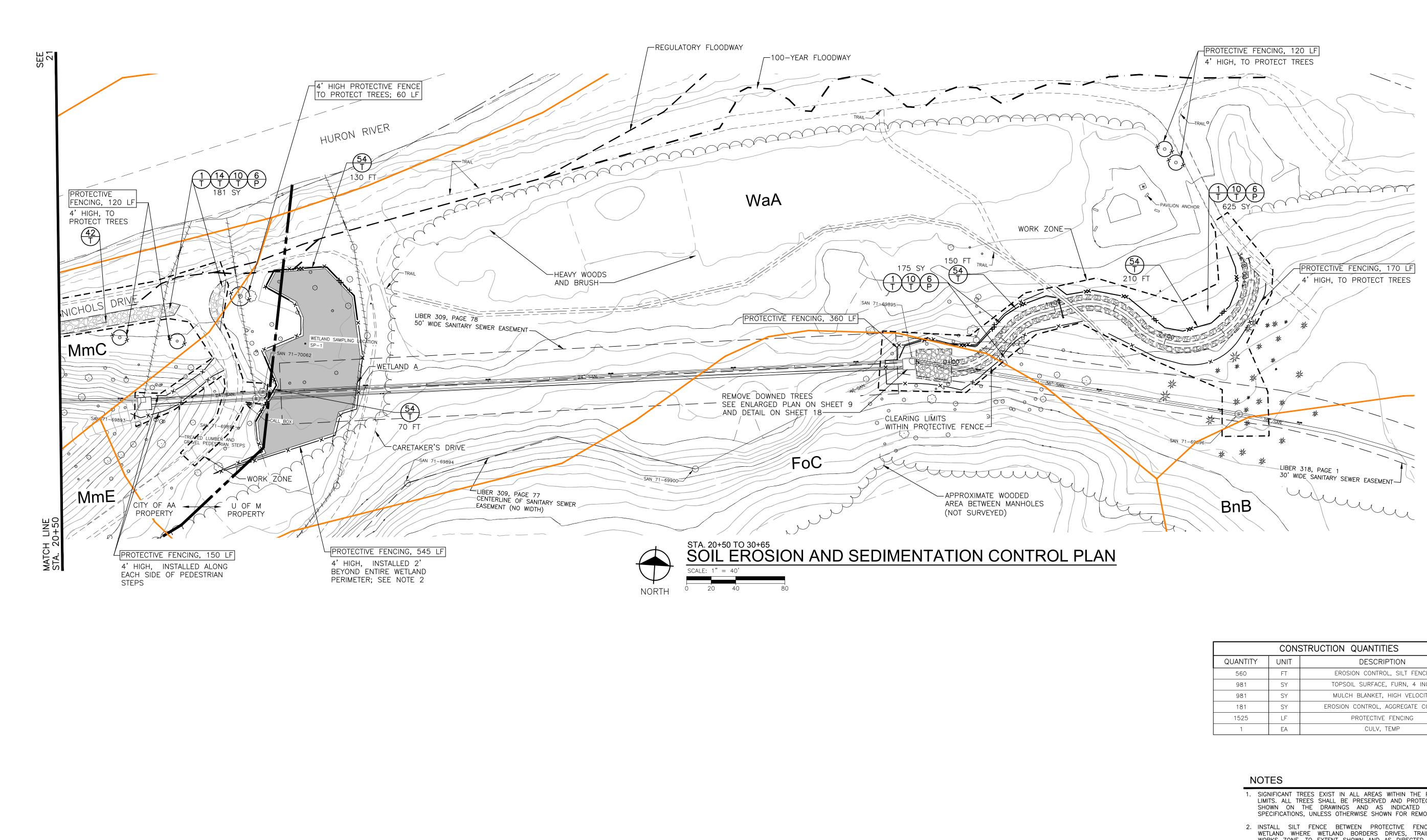
SILT FENCE WILL BE PAID FOR AS "EROSION CONTROL, SILT FENCE".

STABILIZED CONSTRUCTION ACCESS WILL BE PAID FOR AS "EROSION CONTROL, AGGREGATE COVER".

5			Know what's below	Call before you d
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			10-18-2016	DATE
			ISSUED FOR BID	DESCRIPTION
				REV.
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CT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	NICHOLS ARBORETUM SEWER AND SIPHON REHABILITATION	SOIL EROSION AND SEDIMENTATION CONTROL NOTES		
PROJE	<b>SCALE</b> PLAN: 1" = 40'			2016-026-SESC1
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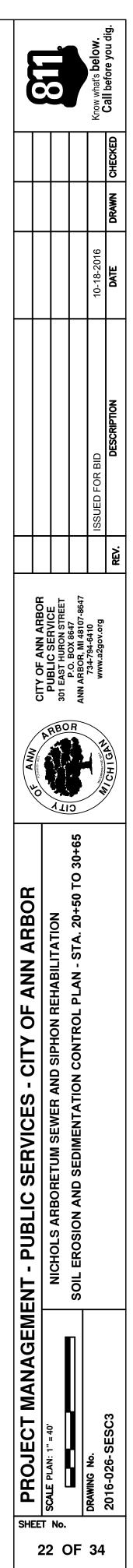
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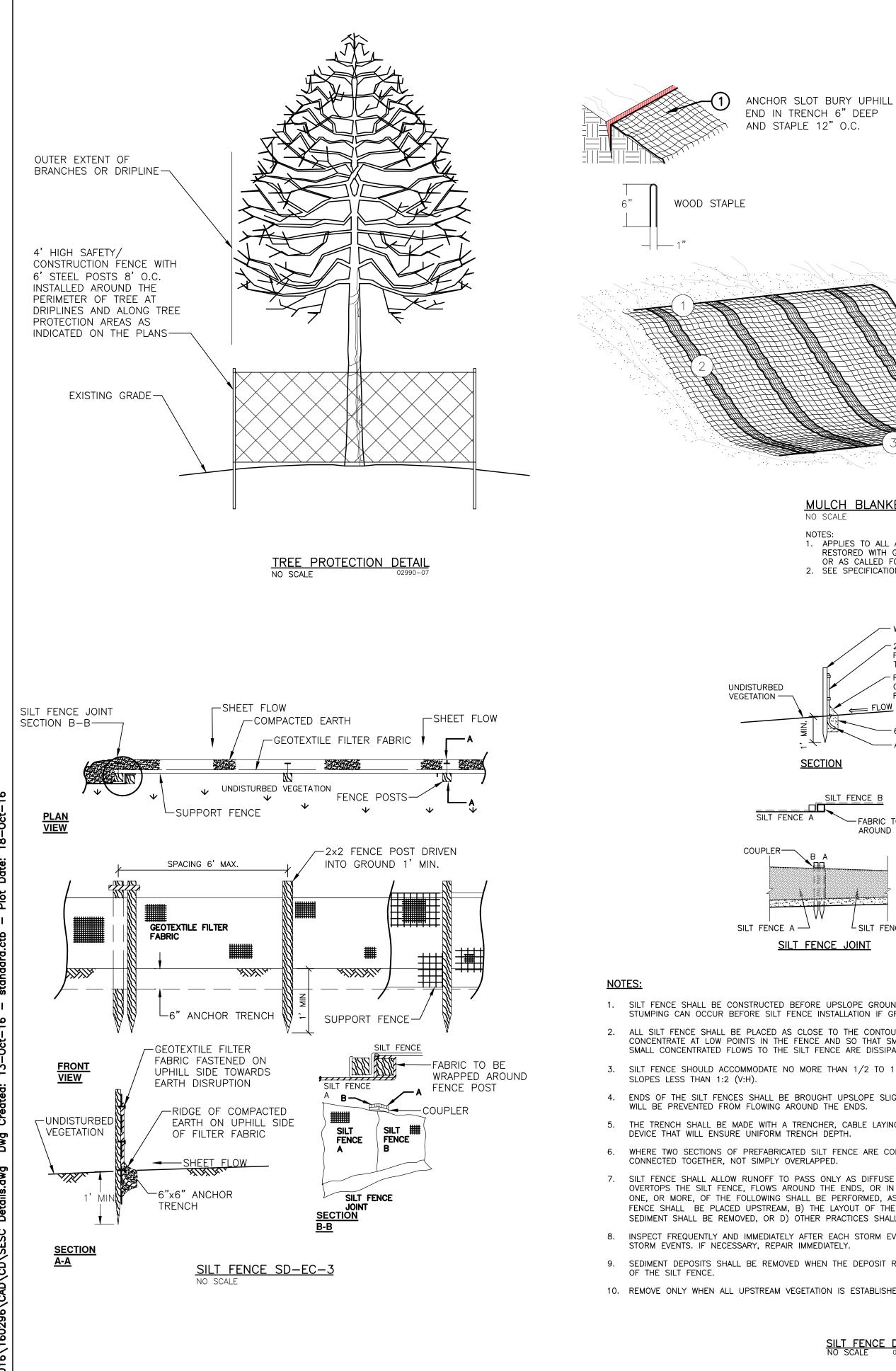




CONSTRUCTION QUANTITIES						
QUANTITY UNIT DESCRIPTION						
560	FT	EROSION CONTROL, SILT FENCE				
981 SY TOPSOIL SURFACE, FURN, 4 INCH						
981 SY MULCH BLANKET, HIGH VELOCITY						
181	181 SY EROSION CONTROL, AGGREGATE COVER					
1525 LF PROTECTIVE FENCING						
1	EA	CULV, TEMP				

- 1. SIGNIFICANT TREES EXIST IN ALL AREAS WITHIN THE PROJECT LIMITS. ALL TREES SHALL BE PRESERVED AND PROTECTED AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS, UNLESS OTHERWISE SHOWN FOR REMOVAL.
- 2. INSTALL SILT FENCE BETWEEN PROTECTIVE FENCE AND WETLAND WHERE WETLAND BORDERS DRIVES, TRAILS AND WORKS ZONE, TO EXTENT SHOWN AND AS DIRECTED BY THE ENGINEER.

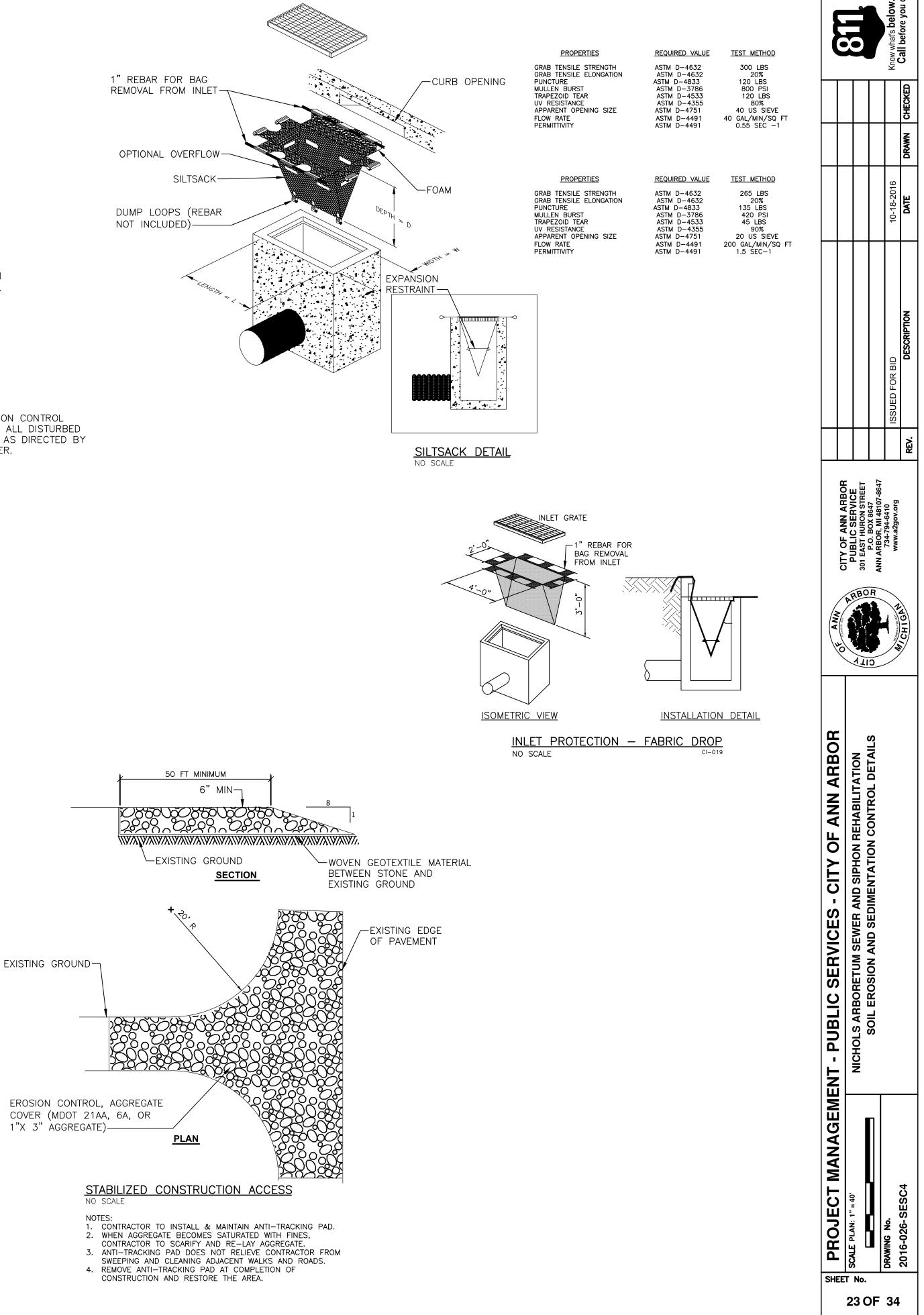


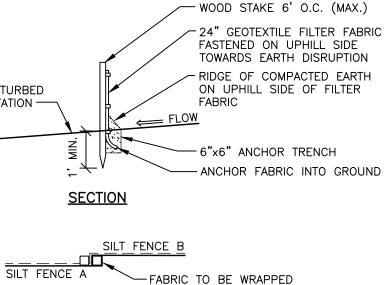


## SILT FENCE DETAIL NO SCALE 02272-01

- 10. REMOVE ONLY WHEN ALL UPSTREAM VEGETATION IS ESTABLISHED AND DIRECTED BY ENGINEER.

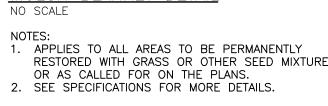
- 9. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT
- SEDIMENT SHALL BE REMOVED, OR D) OTHER PRACTICES SHALL BE IMPLEMENTED. 8. INSPECT FREQUENTLY AND IMMEDIATELY AFTER EACH STORM EVENT. CHECK SEVERAL TIMES DURING PROLONGED
- ONE, OR MORE, OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: A) AN ADDITIONAL RUN OF SILT FENCE SHALL BE PLACED UPSTREAM, B) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, C) ACCUMULATED
- 6. WHERE TWO SECTIONS OF PREFABRICATED SILT FENCE ARE COMBINED INTO ONE RUN, THE END POSTS SHALL BE 7. SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW,
- 5. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE
- 3. SILT FENCE SHOULD ACCOMMODATE NO MORE THAN 1/2 TO 1 ACRE OF DRAINAGE PER 100' OF FENCE AND ON 4. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE
- SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- STUMPING CAN OCCUR BEFORE SILT FENCE INSTALLATION IF GROUND COVER IS NOT REMOVED. 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY
- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE GROUND COVER IS REMOVED. CLEARING, GRUBBING, AND
- SILT FENCE JOINT





AROUND FENCE POST

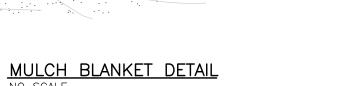
<sup>L</sup>SILT FENCE E

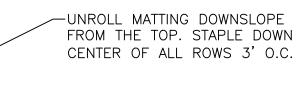


RESTORED WITH GRASS OR OTHER SEED MIXTURE,









LONGITUDINAL OVERLAP

OVERLAP EDGES 6" AND

TERMINAL FOLD TURN

END UNDER 6" AND

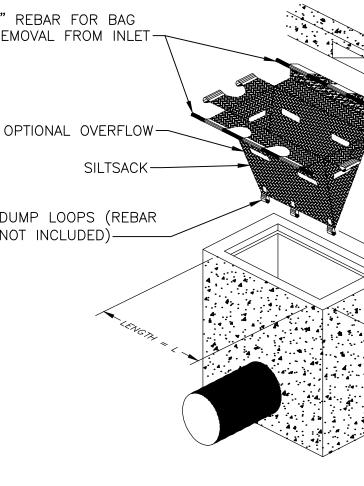
STAPLE 12" O.C.

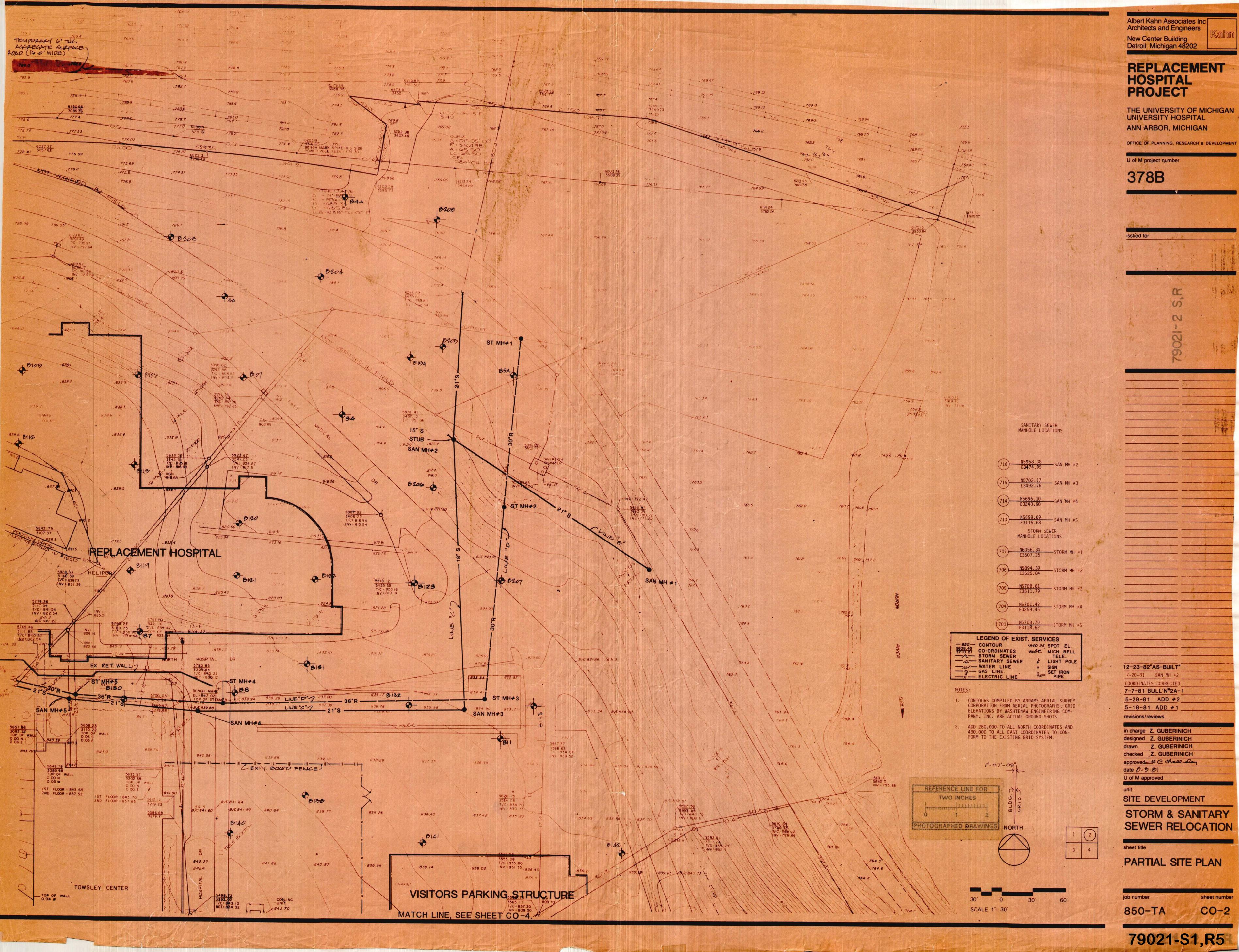
STAPLE 12" O.C.

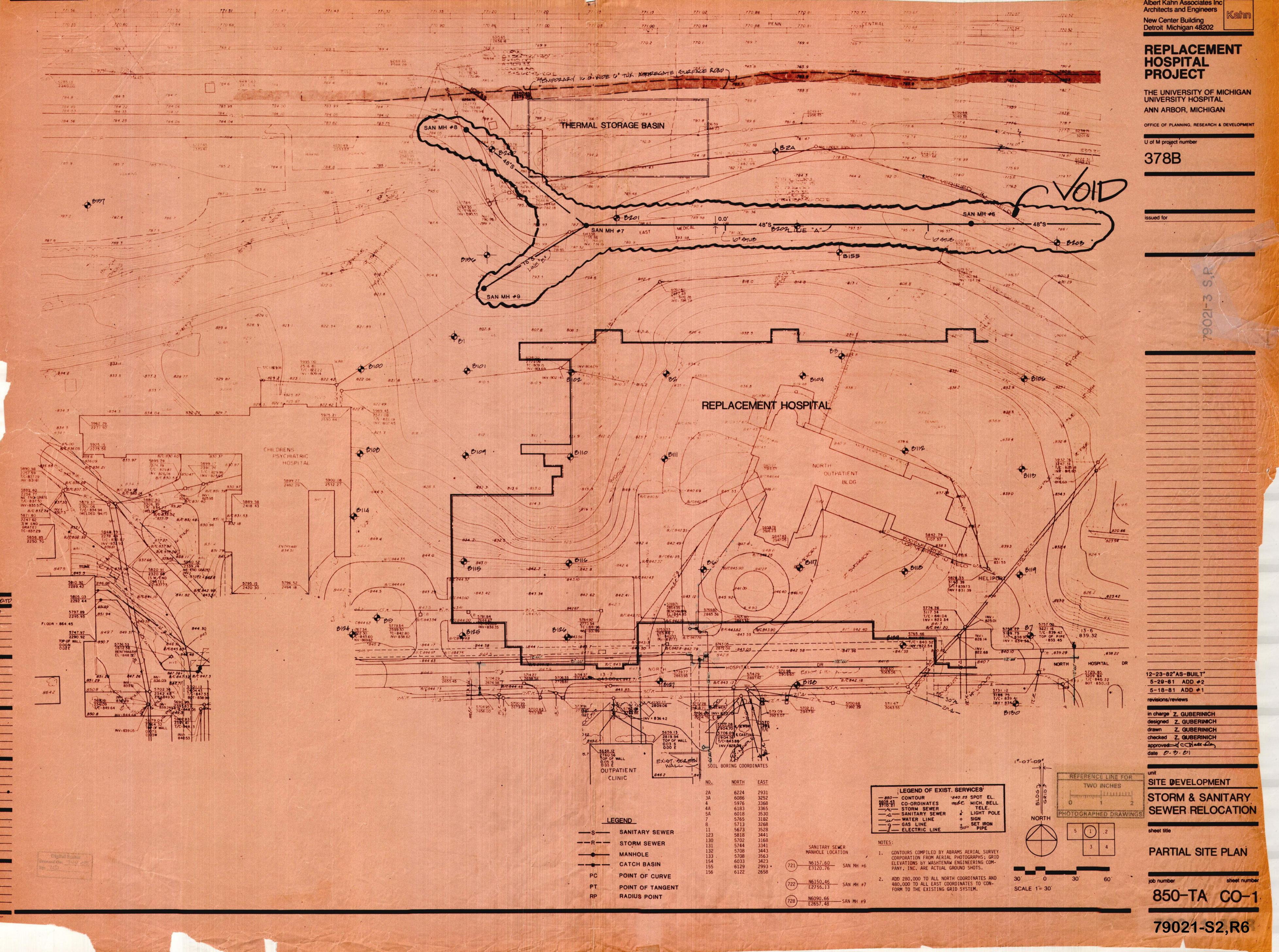
-BRING TO LEVEL GROUND TO TERMINATE

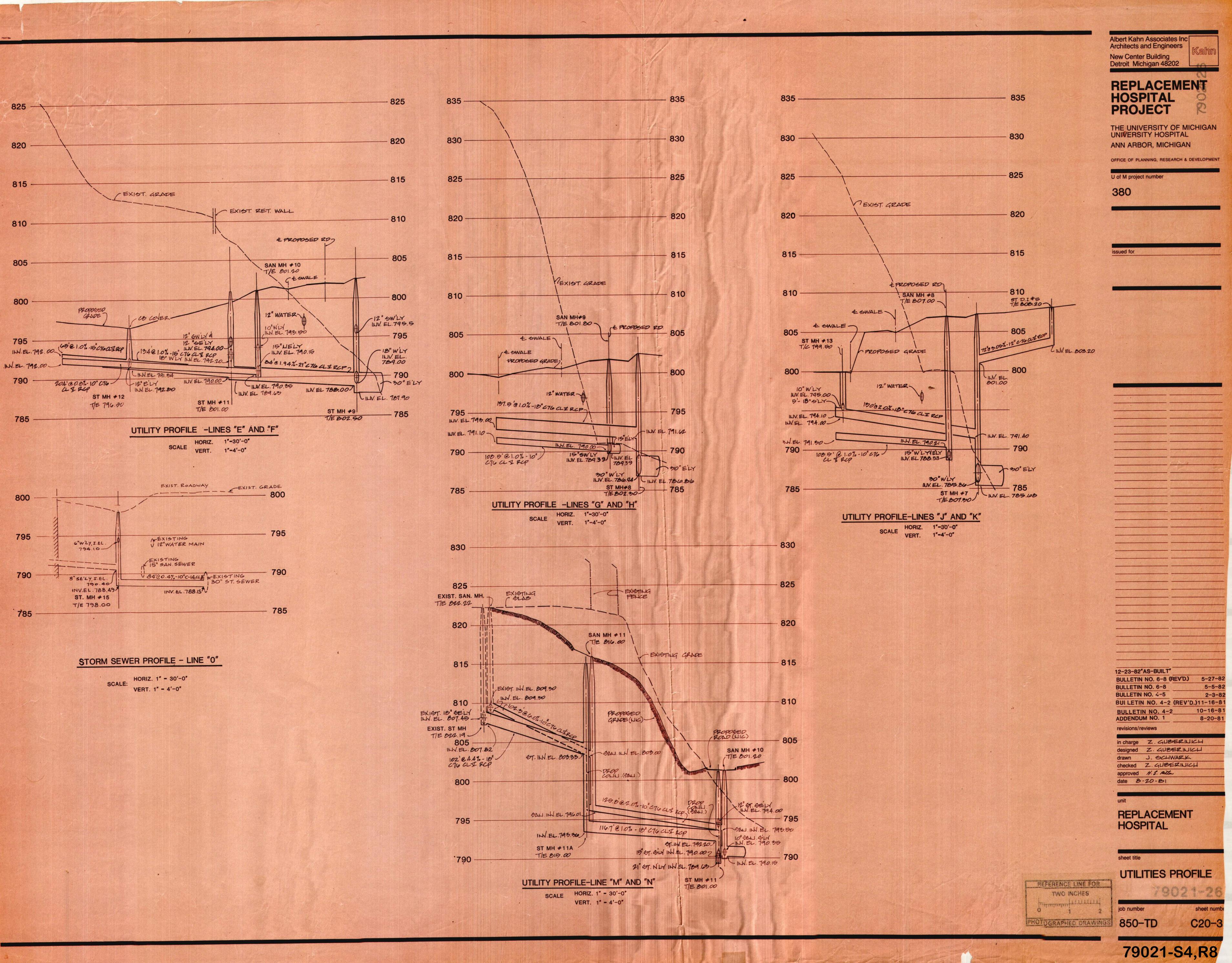
NOTE:

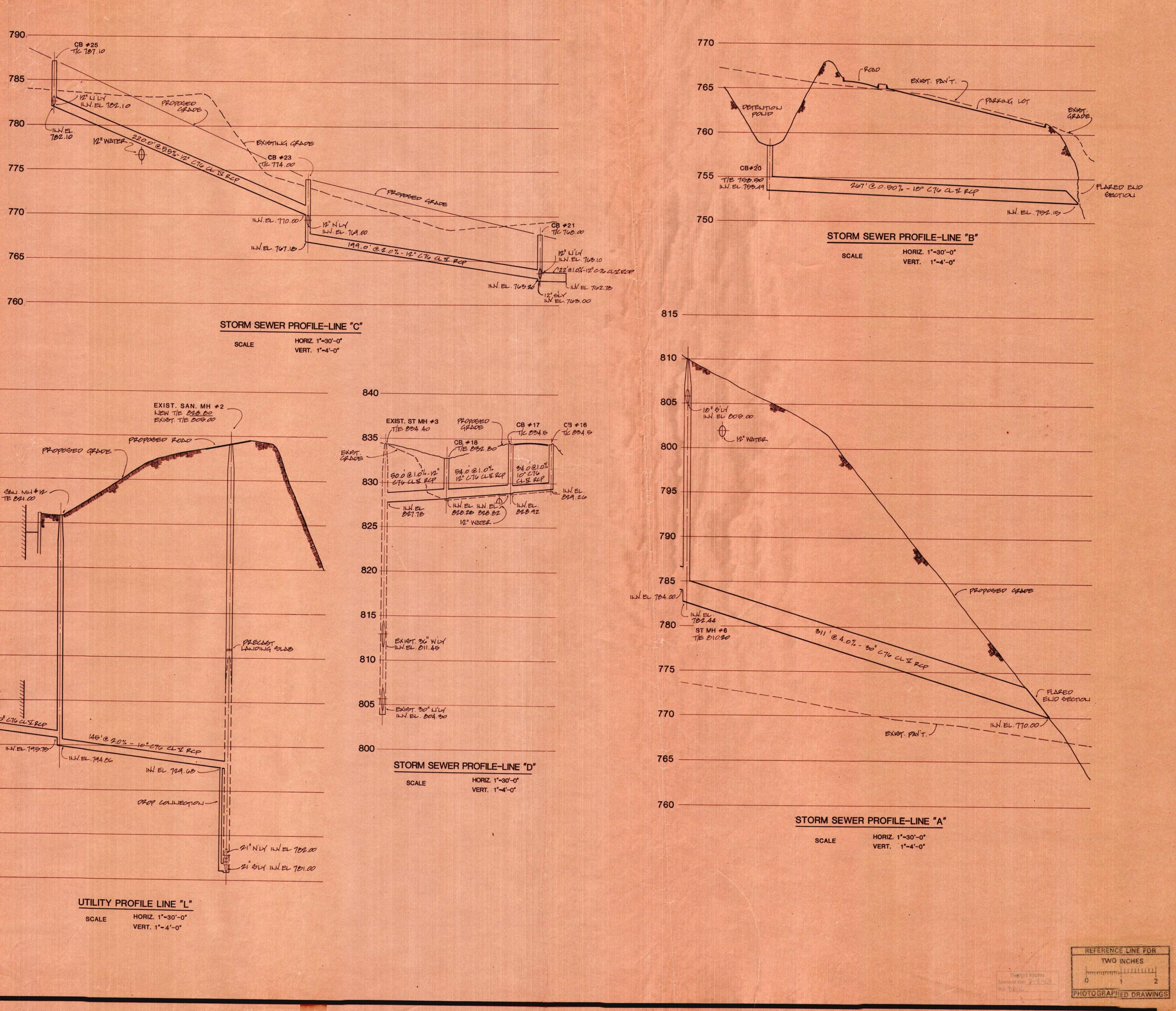
PROVIDE EROSION CONTROL MATTING ON ALL DISTURBED AREAS AND AS DIRECTED BY THE ENGINEER.



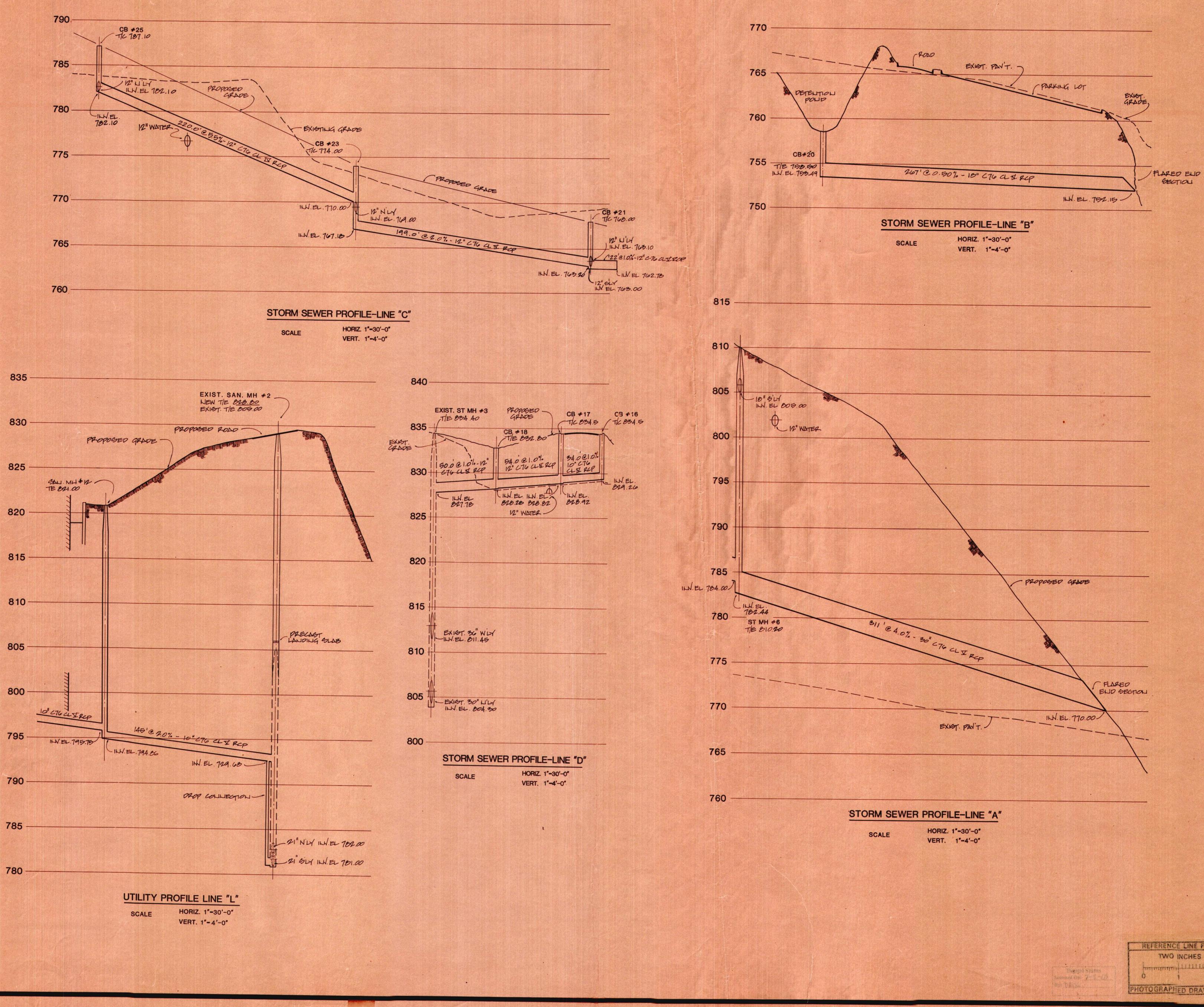






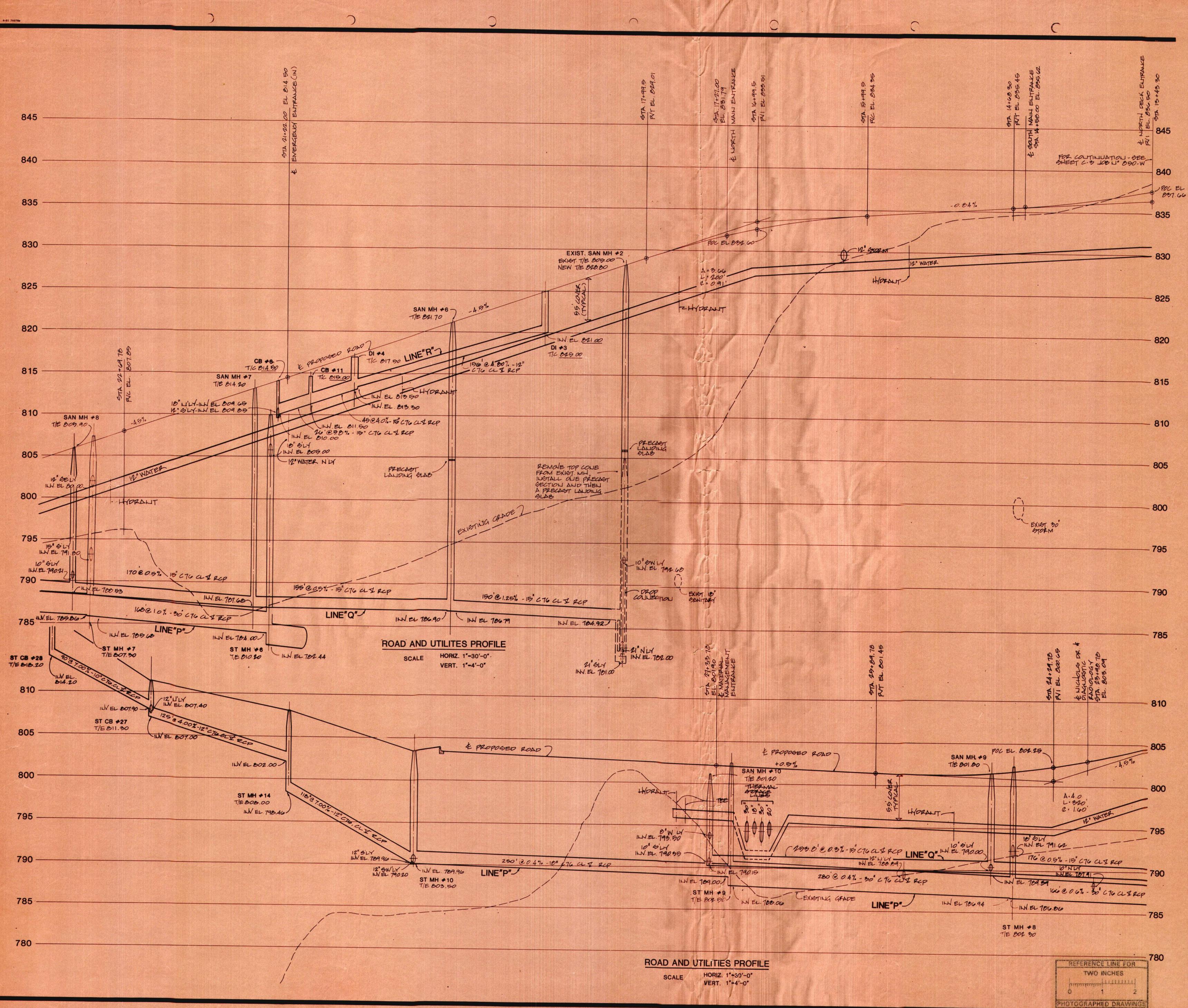






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Albert Kahn Associates Inc Architects and Engineers New Center Building Detroit Michigan 48202 REPLACEMENT HOSPITAL PROJECT THE UNIVERSITY OF MICHIGAN UNIVERSITY HOSPITAL ANN ARBOR, MICHIGAN OFFICE OF PLANNING, RESEARCH & DEVELOPMENT U of M project number 380 issued for 12-23-82 "AS-BUILT" BULLETIN NO. 6-11 7-BULLETIN NO. 4-2 ADDENDUM NO.1 revisions/reviews in charge 2. GUBERILICH designed 2. GUBERINICH drawn P. LIRBAN checked 2.GUBERILICH approved Scheller Day date 8-3.81 REPLACEMENT HOSPITAL sheet title UTILITIES PROFILE 79021-26 sheet number job number 850-TD C20-2 79021-S5,R9



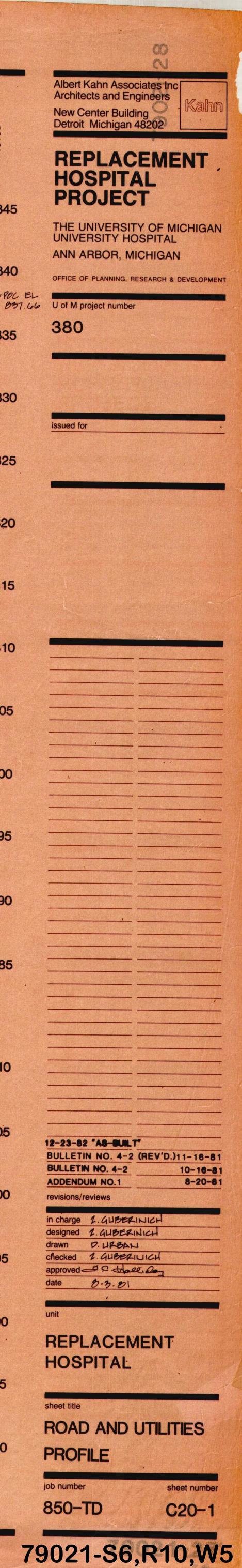
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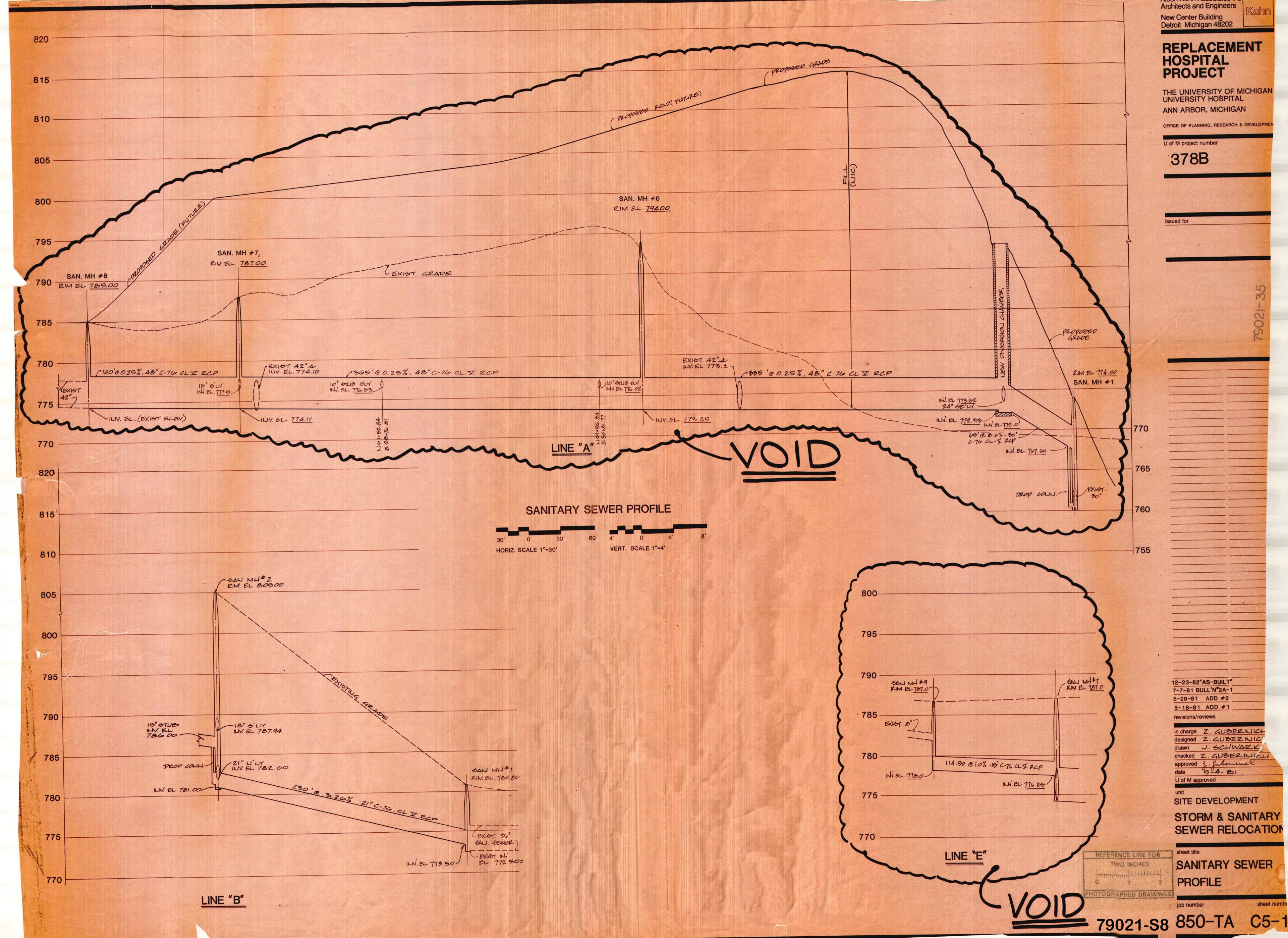
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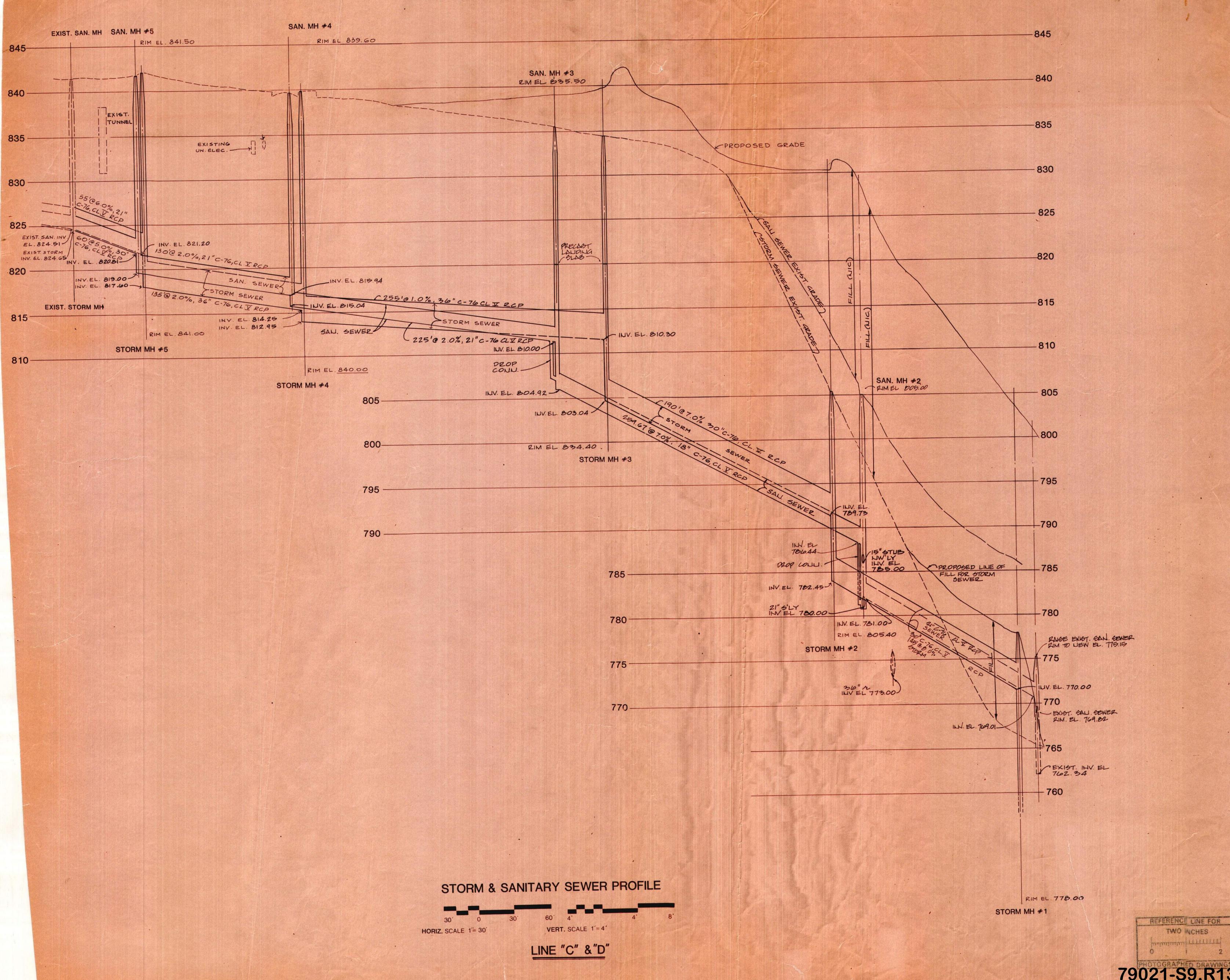
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Alchitects and Engineers New Center Building Detroit Michigan 48202

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HOSPITAL PROJECT

ANN ARBOR, MICHIGAN

U of M project number 378B,

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5-29-81 ADD #2 5-18-81 ADD #1 revisions/reviews

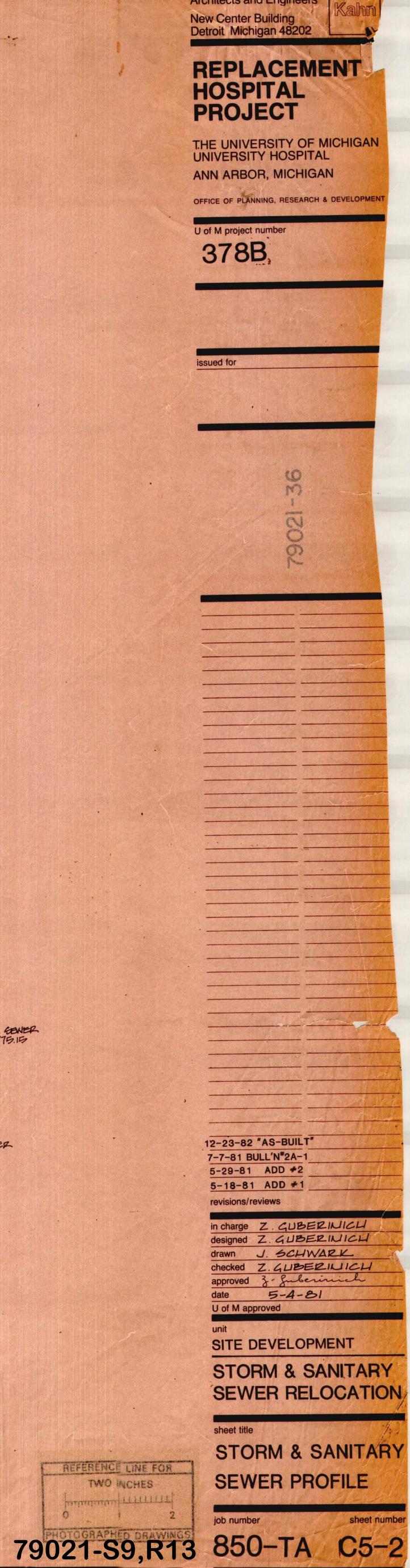
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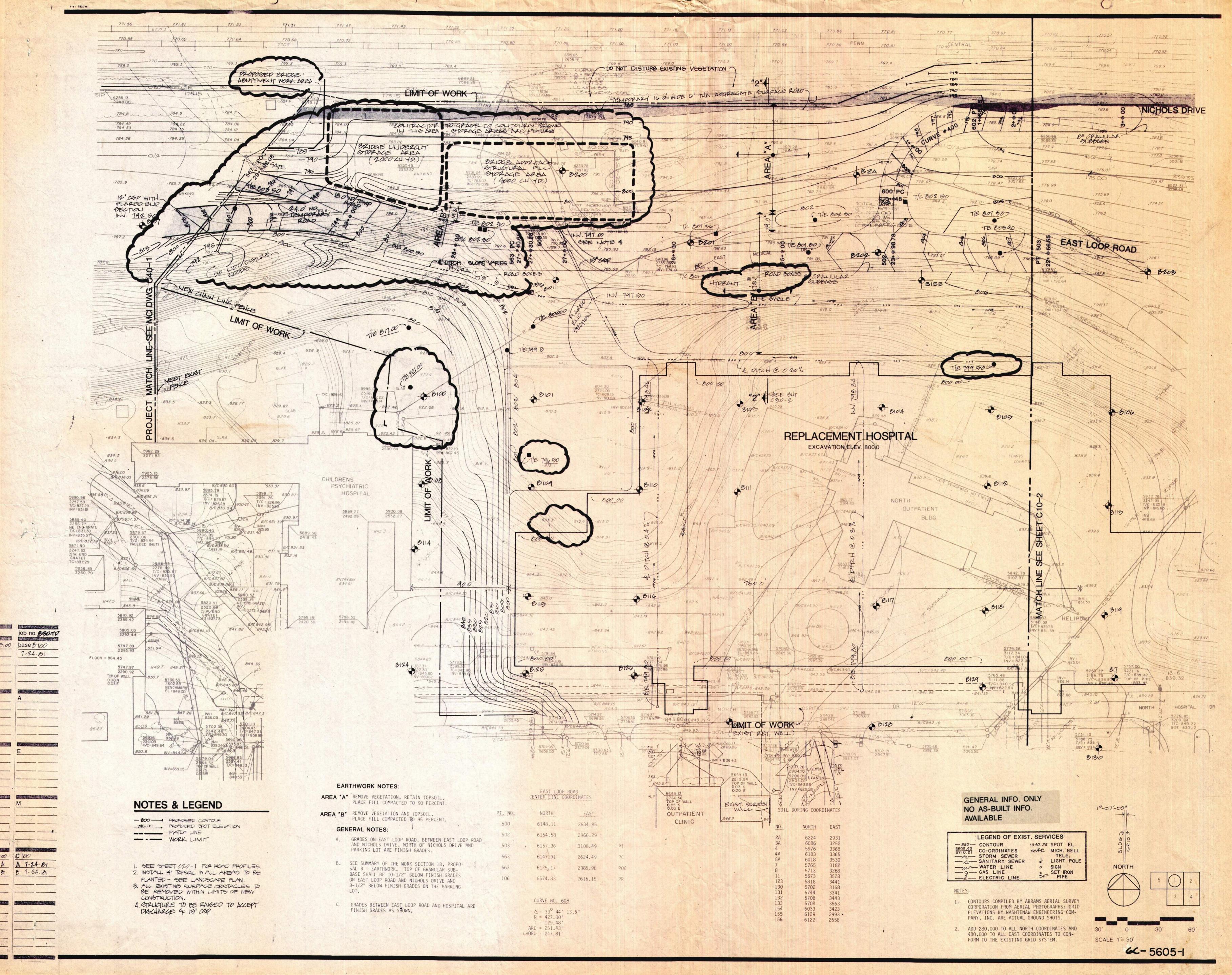
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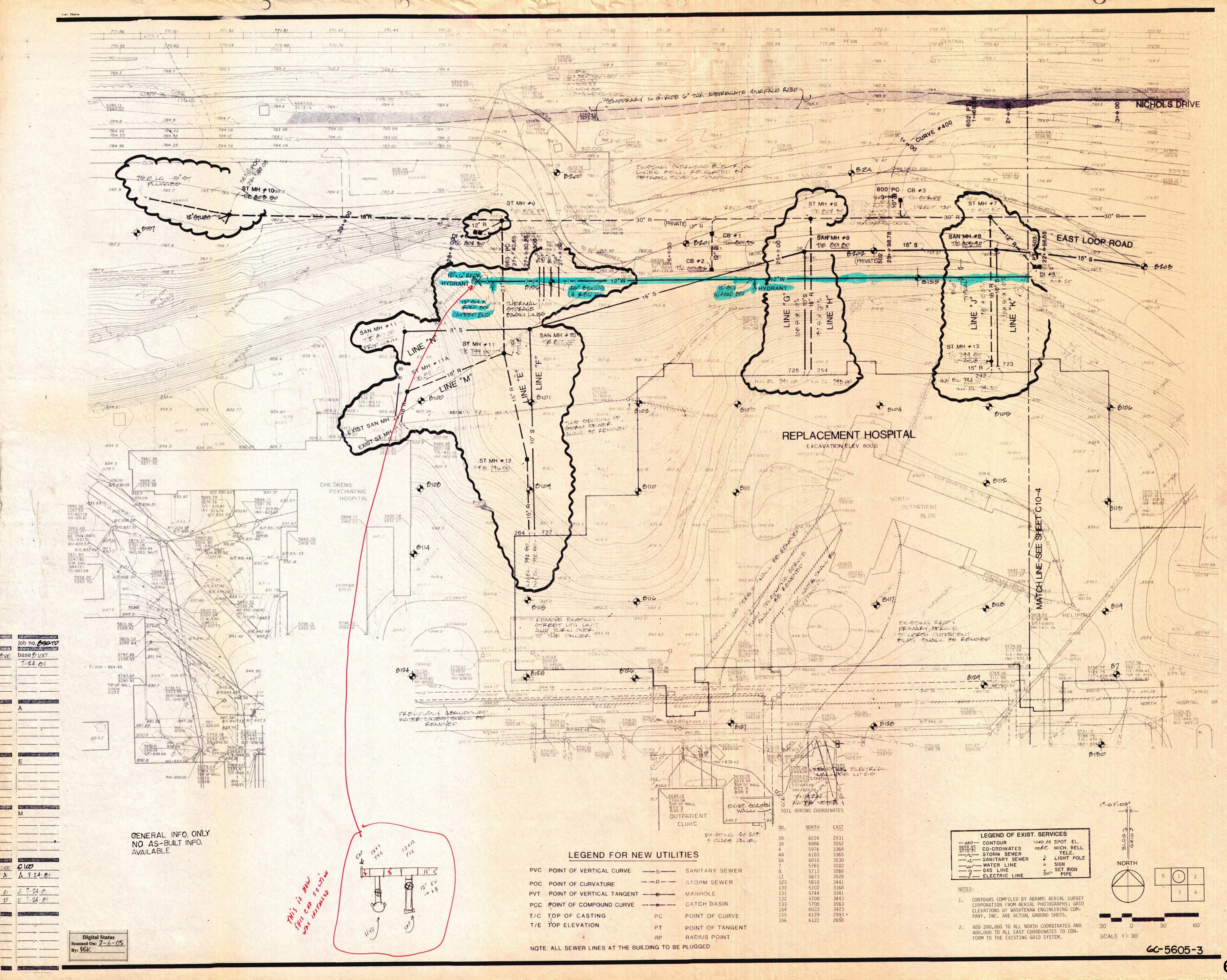
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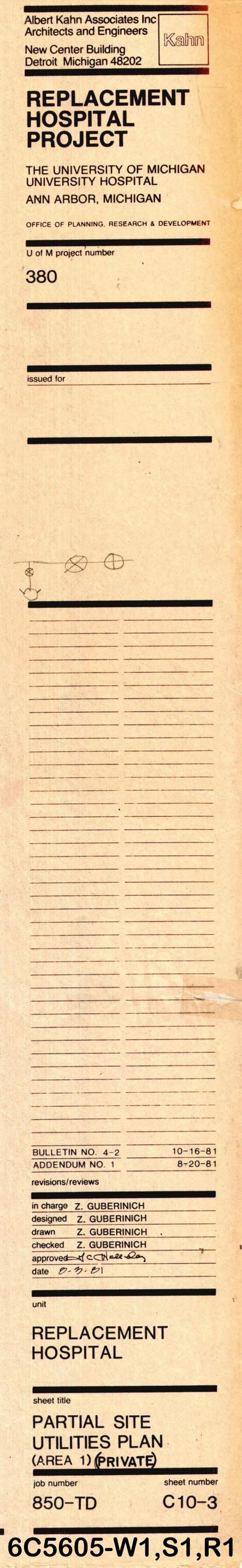
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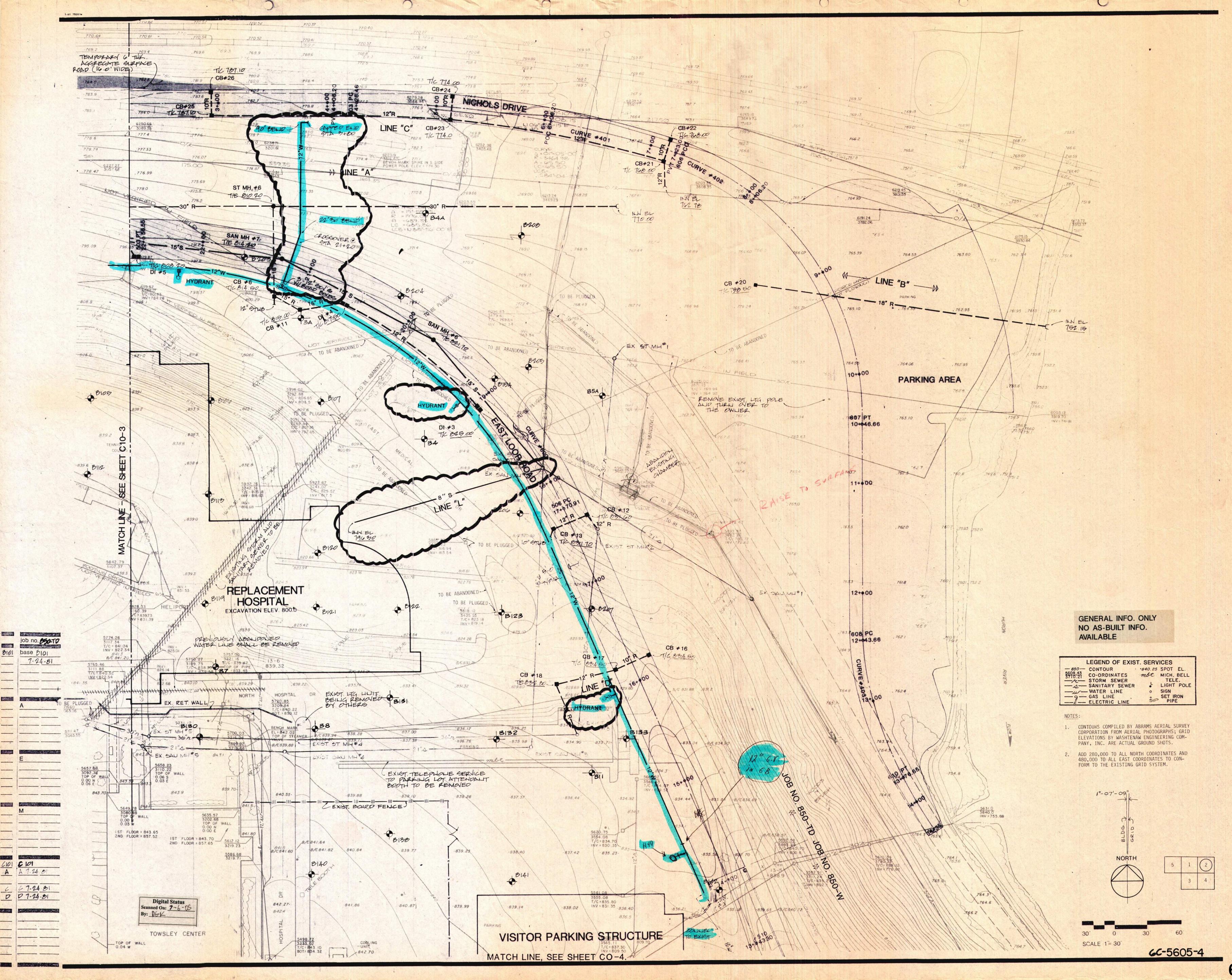


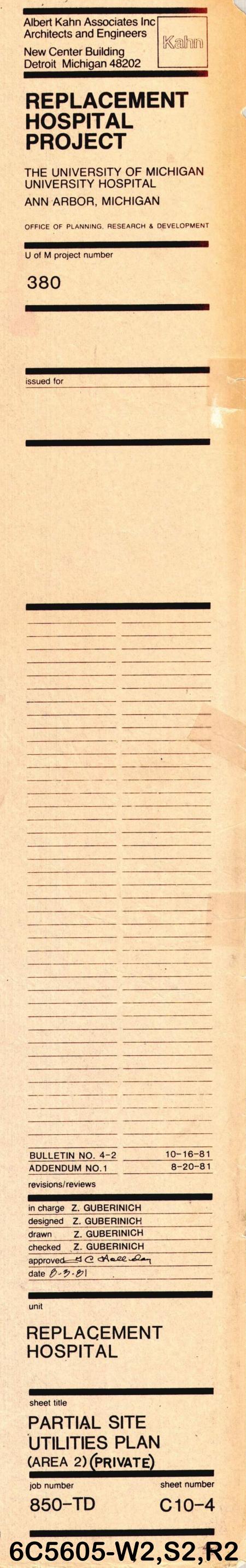


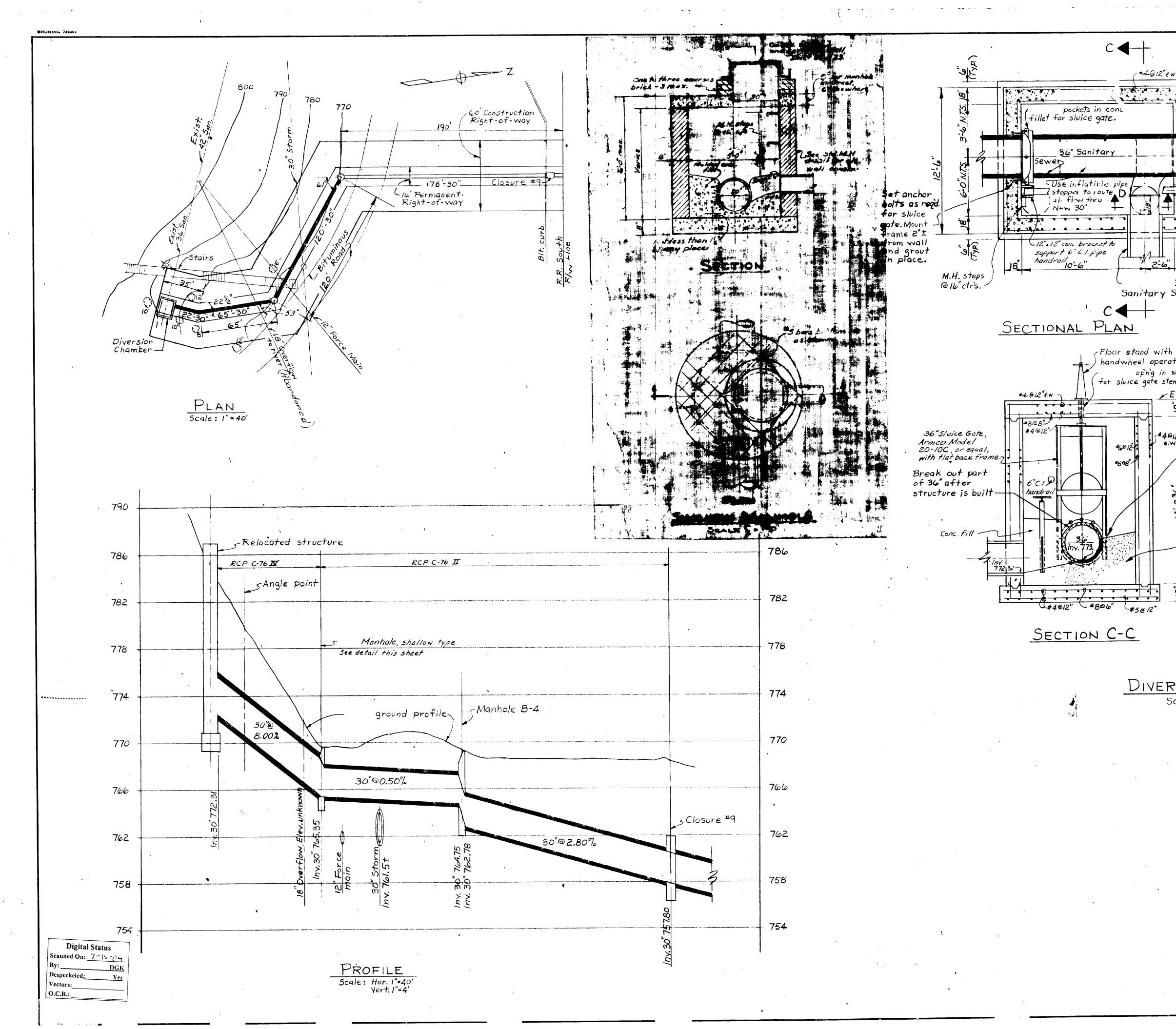
Albert Kahn Associate Architects and Engineer New Center Building Detroit Michigan 48202 REPLACEMENT HOSPITAL PROJECT THE UNIVERSITY OF MICHIGAN UNIVERSITY HOSPITAL ANN ARBOR, MICHIGAN OFFICE OF PLANNING. RESEARCH & DEVELOPMENT U of M project number 380 Johnson, Johnson & Roy/inc. Planning/Landscape Architecture 303 N. Main Street Ann Arbor Michigan 48104 313 662 4457 Project No. 12598D issued for BULLETIN NO. 4-2 10-16-81 ADDENDUM NO. 1 8-20-81 revisions/reviews in charge Z. GUBERINICH designed Z. GUBERINICH Z. GUBERINICH drawn checked Z. GUBERINICH approved C CHele Day date 0-3.01 unit REPLACEMENT HOSPITAL sheet title PARTIAL SITE GRADING PLAN (AREA 1) (PRIVATE) job number sheet number 850-TD C10-1

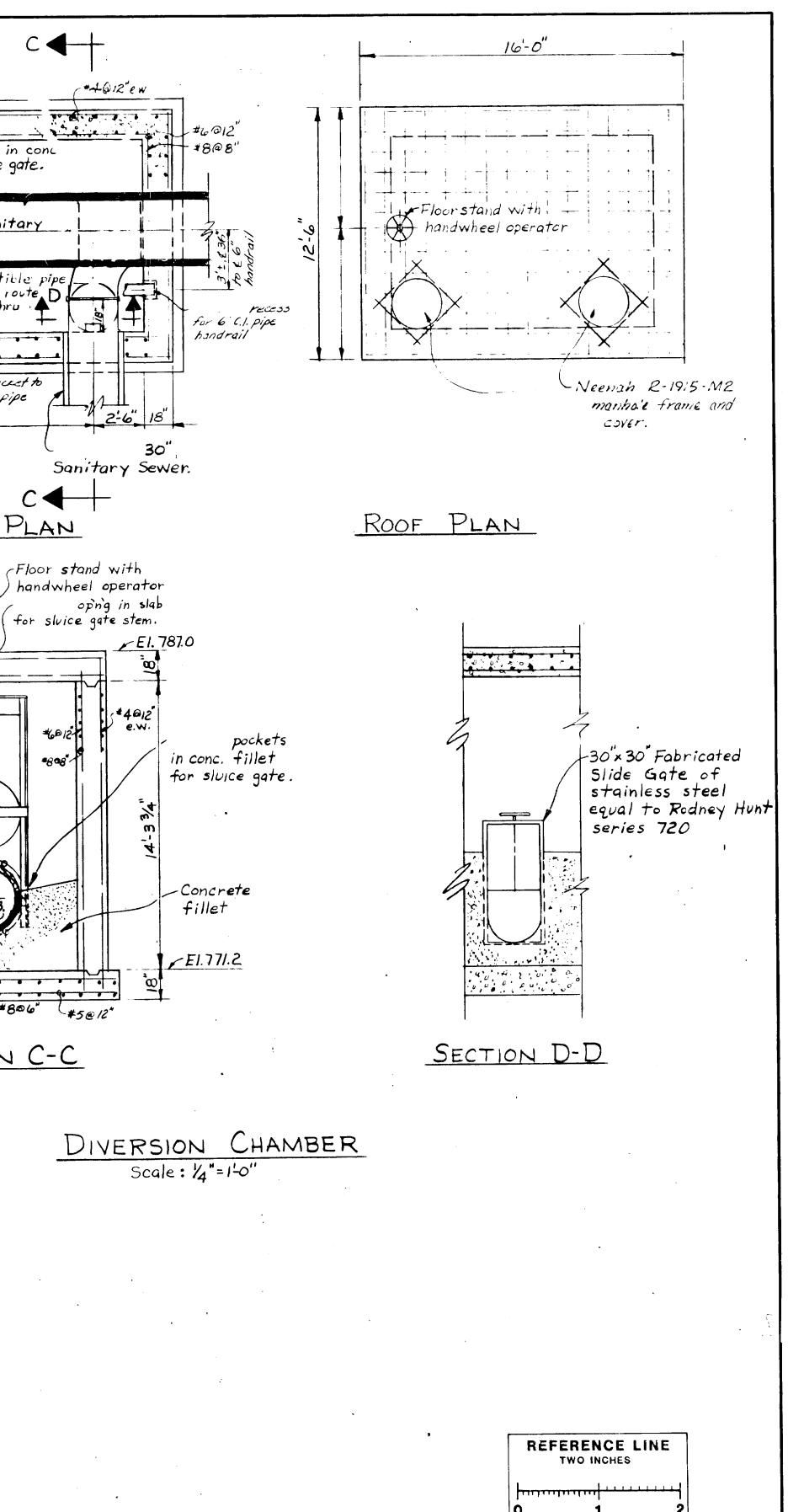












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