

SHEET	SHEET TITLE	REV	DATE	SHEET	
D-01	SITE PREPARATION AND EROSION CONTROL DETAILS	0	04/14/17		
D-02	SITE PREPARATION AND EROSION CONTROL DETAILS	0	04/14/17		
D-03	SITE PREPARATION AND EROSION CONTROL DETAILS	0	04/14/17		
D-04	RESTORATION DETAILS	0	04/14/17		
D-05	RESTORATION DETAILS	0	04/14/17		
D-06	RESTORATION DETAILS	0	04/14/17		
D-07	RESTORATION DETAILS	0	04/14/17		
D-08	RESTORATION DETAILS	0	04/14/17		
D-09	RESTORATION DETAILS	0	04/14/17		
D-10	SHORING DESIGN DETAILS	0	04/14/17		
D-11	SHORING DESIGN DETAILS	0	04/14/17		
P-01	CONSTRUCTION WATER TREATMENT PROCESS FLOW DRAWING	0	04/14/17		
				CURRENT DATE	04/14/

PREPARED BY:



AECOM 250 APOLLO DRIVE CHELMSFORD, MA 01824 www.aecom.com

	SHEET TITLE		REV	DATE
/2017	DRAWING NUMBER	G-01		

G	ENERAL	NO	ΓES							
1.	TOPOGRAPHIC METTAWEE RIV SEPTEMBER 20	ELEVATI ER IN GF 16.	IONS ARE BAS RANVILLE, NE	SED UPON TOP(W YORK BY VAN)GRAPHIC AND B I DUSEN & STEVE	ATHYMETRIC SU S IN AUGUST 20	JRVEYS CONDUCT)15, SUPPLEMENTI	ed in ti Ed in	HE	
2.	CONTOURS AND 88). THE HORIZO COORDINATE S	D ELEVA ONTAL D YSTEM (TIONS SHOW ATUM IS NOR NAD 83).	N HEREON ARE	BASED ON THE N DATUM OF 1988 (N	ORTH AMERICA AVD88) - NEW Y	N VERTICAL DATU ORK STATE PLAN	JM 1988 E EAST	(NAVD	
3.	PRIOR TO ANY (INDIVIDUAL UTIL THE LOCATION	CONSTRI LITY CON OF EXIS	UCTION THE MPANIES AND TING UTILITIE	CONTRACTOR S MUNICIPALITIE ES.	HALL CONTACT I S NOT COVERED	NG SAFELY NEV BY DIG SAFELY	V YORK (811). CON TO FIELD IDENTIF	ITACT Y AND V	'ERIFY	
4.	THESE CONSTR MANUFACTURE CONSTRUCTION RESPONSIBLE F IN ACCORDANC	RUCTION D GAS P N DRAWI FOR MEE E WITH 1	DRAWINGS A LANT, GRANV NGS, BID DOO TING REQUIP THE CONTRA	ARE A COMPONI VILLE, NEW YOR CUMENTS, AND REMENTS AND F CT DOCUMENT.	ENT OF THE CON K. THE CONTRAC TECHNICAL SPEC OR PERFORMING	RACT DOCUME F DOCUMENTS F IFICATIONS. TH ALL ACTIVITIES	ENTS FOR THE FOR FOR THIS PROJEC HE CONTRACTOR I S AND ATTACHMEN	RMER ST CONS S NTS THE	IST OF RETO	
5.	THE CONTRACT OF CONSTRUCT CONSTRUCTION MAY BE INSTALI	OR SHA FION ANE N FENCIN LED AT T	LL BE RESPO D UNTIL THE S NG, SIGNS AN THE DIRECTIO	NSIBLE FOR SE SITE IS RESTOR D, IF NECESSAF N OF THE OWN	CURING THE WOI ED. SECURITY ME RY, BARRICADES ER IN ORDER TO	K AREA BOTH I ASURES MAY IN O LIMIT SITE A ENSURE A SAFE	DURING AND AFTE NCLUDE TEMPORA CCESS. ADDITION E WORKING ENVIR	R THE H ARY IAL MEAS	IOURS SURES T.	
6.	THE CONTRACT LOCATIONS OF ACTIVITIES.	OR SHA	LL BE RESPO S, AND OTHE	NSIBLE FOR VE R EXISTING COI	RIFYING PROPER	TY LINES, SURV FIELD BEFORE I	YEY BENCHMARKS BEGINNING CONST	, AND FRUCTIC	N	
7.	THE CONTRACT		ESPONSIBLE			JTILITIES REQU	IRED TO FACILITA	TE		
8.	THE CONTRACT	OR SHA	LL COMPLY V	VITH THE COND PROJECT.		ONMENTAL PER	MITS LICENSES, A	ND		
<u>CO</u>	NSTRUCTION NO	TES								
1.	THE CONTRACT OF THE OWNER	OR SHA	LL MOVE MAT	TERIALS UNDER RACTORS.	CONTRACTOR'S	CONTROL THAT	INTERFERE WITH	I OPERA	TIONS	
2.	THE CONTRACT	OR'S US PROPER	E OF THE OV	VNER'S PROPER	TY SHALL IN NO YOWNERS.	VAY INTERFERE	E WITH ACCESS TO	O OR US	E OF	
3.	CONTRACTOR S DOCUMENTS. L MAY BE AFFECT RESTORED AFT	SHALL CO AND RES TED BY T ER COM	ONFINE HIS/H SOURCES WI HE PROJECT PLETION OF (IER CONSTRUC THIN THE PROJ WORK SHALL E CONSTRUCTION	FION ACTIVITIES ⁻ ECT SITE BOUND, E PRESERVED IN I.	O AREAS DEFIN RIES AND OUT: THEIR PRESEN	NED BY THE CONT SIDE LIMITS OF TH T CONDITION, OR	RACT IE WORF BE	THAT	
4.	MONUMENTS A	ND MARK	KERS SHALL I	BE PROTECTED	AT ALL TIMES.					
5.	CONTRACTOR S STATE, AND LOO SHALL BE PERF ADJACENT TO F	SHALL NG CAL LAW ORMED PROJECT	OT POLLUTE /S CONCERNI IN SUCH A M/ I SITE AREAS	WATERWAYS. (NG POLLUTION ANNER THAT OE	CONTRACTOR SH OF RIVERS AND S JECTIONABLE CO	ALL COMPLY WI TREAMS. WOR ONDITIONS WILL	TH APPLICABLE FE K UNDER THIS CO NOT BE CREATED	EDERAL, DNTRACT D ON OR	T	
6.	CONTRACTOR S	SHALL SU EROSION	JBMIT A PLAN N, SEDIMENTA	I FOR APPROVA ATION, TURBIDI	L BY THE OWNEF (Y, AND FOR DISF	SHOWING AND OSING OF WAS	DESCRIBING THE	SCHEM	E FOR TION.	
7.	CONTRACTOR S	SHALL CO F ECOLC	OMPLY WITH OGICAL RESO	ALL PERMITS AI URCES AND RE	ND REQUIREMEN CREATIONAL VAL	IS ASSOCIATED	WITH IN-RIVER W	ORK AN	D	
8.	CONTRACTOR S BOUNDARIES FR ODOR CONTRO OCCURS AS DE	SHALL M REE FRC L SHALL TERMINE	AINTAIN ACCI OM DUST OR (BE PERFORM ED BY THE OV	ESS AREAS ANE DDORS WHICH V /IED AS THE WO WNER OR ENGIN) OTHER WORK A VOULD CAUSE A RK PROCEEDS A IEER.	REAS WITHIN OF HAZARD OR NUI ND WHENEVER /	R BEYOND THE PR SANCE TO OTHER A NUISANCE OR H.	ROJECT S RS. DUS ⁻ AZARD	SITE F AND	
9.	CONTRACTOR S AREAS, STRUCT CONSTRUCTION	SHALL OI TURES, S N CAUSE	BLITERATE SI STOCKPILES (D BY THE CO	IGNS OF TEMPC OF EXCESS OR INTRACTOR UPC	RARY CONSTRUC WASTE MATERIA ON PROJECT COM	TION FACILITIE .S, OR ANY OTH. PLETION.	S SUCH AS ROADS ER VESTIGES OF	s, work		
10.	CONTRACTOR S THE OPERATION CONCERNED HA	SHALL MA NS CREA AS BECO	AINTAIN FACI ATING THE PA DME STABILIZ	LITIES CONSTR RTICULAR POLI ED OR REMOVE	UCTED, AS APPLI _UTANT ARE BEIN D TO THE EXTEN	CABLE, FOR POI G CARRIED OUT I THAT POLLUTI	LLUTION CONTROI F, OR UNTIL THE M ON IS NO LONGEF	L AS LON IATERIAI R CREAT	NG AS - ED.	
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EROSION CONTROL NOTES

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- CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE 1 WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK (NYSDEC 2005).
- 2. PRIOR TO THE START OF COFFERDAMS CONSTRUCTION, HAY BALES AND SILT FENCING SHALL BE STAKED AROUND THE UPLAND WORK AREAS. COFFERDAMS SHALL BE DEPLOYED AROUND THE IN-RIVER EXCAVATION AREAS, AS SHOWN ON THE PLANS AND SHALL BE INSPECTED AND APPROVED BY ENGINEER.
- 3. COFFERDAMS SHALL BE INSPECTED AND REPAIRED AS NEEDED ONCE A DAY, OR IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR OTHER INCIDENT WHICH MAY ADVERSELY IMPACT THE COFFERDAMS.
- 4. HAY MULCH SHALL BE APPLIED TO NEW SEEDING TO HASTEN GERMINATION AND TO PROTECT THE NEW SEEDBEDS FROM EROSION DURING THE ESTABLISHMENT PERIOD. THE MULCH APPLICATION RATE SHALL BE 1.5 TO 2 TONS PER ACRE.
- 5. SILT FENCE AND HAY BALES SHALL REMAIN IN PLACE UNTIL SEEDINGS HAVE BECOME AT LEAST 75% ESTABLISHED AND THEN REMOVED. THE AREA DISTURBED BY REMOVAL SHALL BE GRADED, AND PLANTED AS DIRECTED BY THE ENGINEER.
- MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION PHASE. AT A MINIMUM, 6. THE HAY BALES, AND SILT FENCING SHALL BE INSPECTED AND REPAIRED ONCE PER WEEK. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED. FOLLOWING THE FINAL SEEDING, THE SITE SHALL BE INSPECTED EVERY THIRTY DAYS UNTIL THE SEEDED AREAS HAVE BEEN 95% ESTABLISHED. IF EROSION OCCURS BEFORE THE SEEDED AREAS HAVE BECOME ESTABLISHED OR IF THERE ARE AREAS WHERE GROWTH IS INSUFFICIENT, THESE AREAS SHALL BE REGRADED AND RESEEDED AS REQUIRED, AND FOLLOW-UP INSPECTIONS SHALL BE MADE. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN THE SEDIMENT REACHES A DEPTH OF 6 INCHES. THE REMOVED SEDIMENT SHALL BE REGRADED ONTO THE SITE.
- 7. THE CONTRACTOR SHALL PROTECT UPLAND AREAS DISTURBED BY CONSTRUCTION THAT ARE SUBJECT TO EROSION INCLUDING AREAS USED FOR CONTRACTOR STAGING AND SOIL STOCKPILE AREAS WITH APPROPRIATE EROSION CONTROL MEASURES. THESE MEASURES SHALL BE INSPECTED AND MAINTAINED ON A CONTINUAL BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS RESTORED AND STABILIZED.
- 8. THE CONTRACTOR SHALL CONFORM TO THE NEW YORK STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL (NYSDEC 2005), AND TO THE PROVISIONS OF ANY EROSION AND SEDIMENT CONTROL PLAN INCLUDED WITH THE BID PACKAGE.

FLOOD CONTINGENCY PLAN

- 1. THE CONTRACTOR SHALL MONITOR THE NATIONAL WEATHER SERVICE FORECAST OFFICE (DIRECTED BY NOAA) FOR WEATHER UPDATES. THE CONSTRUCTION MANAGER SHALL INITIATE THIS FLOODPLAIN CONTINGENCY PLAN WHEN A "FLOOD WARNING" HAS BEEN ISSUED FOR WASHINGTON COUNTY. WARNINGS ARE ISSUED BY RADIO BROADCAST AND ARE AVAILABLE VIA THE INTERNET AT HTTP://WWW.NWS.NOAA.GOV. THE CONSTRUCTION MANAGER SHALL BE AVAILABLE TO IMPLEMENT THIS FLOODPLAIN CONTINGENCY PLAN 7 DAYS PER WEEK.
- 2. ONCE A "FLOOD WARNING" HAS BEEN ISSUED, THE CONSTRUCTION MANAGER SHALL VERIFY THAT ALL CONSTRUCTION VEHICLES AND EQUIPMENT HAVE BEEN REMOVED FROM THE FLOODPLAIN AREA AS SOON AS IS REASONABLY PRACTICABLE.
- 3. CONSTRUCTION MANAGER SHALL VERIFY THAT THE TEMPORARY COFFERDAM IS IN PLACE AROUND THE ELECTRIC SUBSTATION AND THAT THERE ARE NO GAPS IN IT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING POTENTIAL GAPS
- 4. THERE SHALL BE NO STOCKPILING OF MATERIALS OUTSIDE OF THE AREA DESIGNATED ON THE PLANS.
- 5. IN THE EVENT OF FLOODING, NO WORK MAY TAKE PLACE IN THE WORK AREA UNTIL FLOODWATERS HAVE BEEN CONTAINED WITHIN THE BANKS OF THE METTAWEE RIVER AND TEMPORARY BYPASS CHANNEL AT THE SITE AND UNTIL NECESSARY REPAIRS HAVE BEEN MADE TO THE EROSION AND TURBIDITY CONTROL MEASURES.

REFERENCES

1. SITE SURVEY, 69 NORTH STREET, GRANVILLE, NEW YORK, DATED FEBRUARY 29, 2016, PREPARED BY VAN DUSEN AND STEVES



LEGEND

EXISTING FEATURES

P	PROPERTY LINE
· ·	EDGE OF GRAVEL
	CHAIN LINK FENCE
EOH	UTILITY LINE
	EXISTING 1' CONTOUR
	EXISTING 5' CONTOUR
	FLOOD CONTROL BERM
	CONCRETE
	RECOVERY WELL
	MONITORING WELL
	LAMP
-0-	UTILITY POLE
ل	TREE SURVEY BENCHMARK
- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	TOP OF BANK
	EDGE OF WATER
	GUY WIRE

APPROXIMATE FEATURES

	EDGE OF GRAVEL
· · · ·	BIKE PATH
X X	CHAIN LINK FENCE
EOH	UTILITY LINES
	HISTORIC STRUCTURE

UTILITY POLE

PROPOSED DESIGN FEATURES

-0-

	EDGE OF STOCKPILE
	SHEETPILE
	GROUND WATER CUTOFF SHEETPILE
	EDGE OF GRAVEL
—— SF —— SF —— SF —— SF ——	SILT FENCE
-0-0-0-0-0-0-	TEMPORARY CONST. FENCE
 · _ · _ · _ · _ ·	LIMITS OF DISTURBANCE
	TOP OF BYPASS CHANNEL
	LIMIT OF EXCAVATION
	BASE OF EXCAVATION
	LIMITS OF ISS
	1' CONTOUR
	5' CONTOUR
	GRIDS
	CROSS SECTION OR PROFILE
	FINAL GRADE LINE
X	DEMOLISH STRUCTURE
V III II	FLOOD CONTROL BERM RESTORATION
	GRAVEL ROAD RESTORATION
	ISS EXCAVATION MAIN
000000000	ISS PERIMETER MASS
	ISS TO BEDROCK
	SOIL MIX WALL EXCAVATION SHORING
	CONSTRUCTION ENTRANCE
	ARMORFLEX

ISSUED FOR BID

LEGEND AND GENERAL NOTES	G-02
	SHEET NUMBER:
GRANVILLE FORMER MGP	1 OF 1
REMEDIAL DESIGN	REVISION 0













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ISSUED FOR BID	
	DRAWING NUMBER:
EXISTING CONDITIONS PLAN	V-01
	SHEET NUMBER:
GRANVILLE FORMER MGP	3 OF 3
REMEDIAL DESIGN	REVISION 0



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	377.6	27.5	7+30	378.6	33.4	7+30	379.6	35.4			
	377.5	26.3	7+40	378.5	31.9	7+40	379.5	35.1			
	377.5	25.0	7+50	378.5	29.8	7+50	379.5	34.5			
	377.5	23.5	7+60	378.5	28.6	7+60	379.5	32.4			
	377.4	23.3	7+70	378.4	27.1	7+70	379.4	30.9			
	377.4	22.2	7+80	378.4	26.0	7+80	379.4	29.2			
	377.3	21.7	7+90	378.3	24.7	7+90	379.3	28.2			
	377.3	21.3	8+00	378.3	24.2	8+00	379.3	27.1			
	377.3	21.0	8+10	378.3	23.9	8+10	379.3	26.1			
	377.2	20.7	8+20	378.2	23.0	8+20	379.2	25.2			
	377.2	20.7	8+30	378.2	22.9	8+30	379.2	25.2			
	377.2	20.7	8+40	378.2	22.9	8+40	379.2	25.1			
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	377.1	23.9	8+70	378.1	26.6	8+70	379.1	28.0			
	377.1	26.1	8+80	378.1	27.3	8+80	379.1	28.5			
	377.1	26.9	8+90	378.1	27.9	8+90	379.1	29.5			
	377.1	27.7	9+00	378.1	28.8	9+00	379.1	29.9			
	377.1	28.4	9+10	378.1	29.3	9+10	379.1	30.7			
	377.1	28.8	9+20	378.1	29.7	9+20	379.1	31.3			
	377.1	28.9	9+30	378.1	30.4	9+30	379.1	31.6			
	377.1	29.3	9+40	378.1	30.5	9+40	379.1	31.8			
	377.1	29.6	9+50	378.1	30.7	9+50	379.1	32.1			
	377.1	29.7	9+60	378.1	31.3	9+60	379.1	32.5			
	377.1	29.9	9+70	378.1	31.7	9+70	379.1	33.0			
	377.1	30.1	9+80	378.1	31.8	9+80	379.1	33.4			
	377.1	30.2	9+90	378.1	32.0	9+90	379.1	33.8			
	377.1	30.4	10+00	378.1	32.2	10+00	379.1	34.0			
	377.1	30.8	10+10	378.1	32.6	10+10	379.1	34.3			
	377.1	31.2	10+20	378.1	33.1	10+20	379.1	34.5			
	377.1	31.5	10+30	378.1	33.3	10+30	379.1	34.7			
	377.1	32.0	10+40	378.1	33.8	10+40	379.1	34.8			
	377.1	32.3	10+50	378.1	34.0	10+50	379.1	35.0			
	377.1	32.8	10+60	378.1	34.3	10+60	379.1	35.3			
	377.1	33.3	10+70	378.1	34.7	10+70	379.1	35.6			
	377.1	33.5	10+80	378.1	34.8	10+80	379.1	35.7			
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3+70 3+80			13+70 13+80			13+70 13+80	377.6	34.2 34.2	13+70	376.6	28.4 13+70 29.1 13+80	376.6	32.0 13+70 31.6 13+80	377.6	34.5 1 34.3 1	.3+70 .3+80				
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4+30 4+40			14+30 14+40	378.2	35.1	14+30 14+40	377.3 377.2	32.9 32.8	14+30	376.3	30.0 14+30 30.3 14+40	376.3	31.6 14+30 31.6 14+40	377.3 377.2	33.9 1 33.7 1	.4+30 .4+40	378.2	35.8		
1+50 1+60			14+50 14+60	378.0	34.8 34.7	14+50 14+60	377.0	32.8	14+50	376.0	30.6 14+50 30.8 14+60	376.0	31.5 14+50 30 3 14+60	377.0	33.5 1	4+50 4+60	378.0	35.7		
4+70			14+70	377.8	34.6	14+70	376.8	32.9	14+70	375.8	30.9 14+70	375.8	28.8 14+70	376.8	33.6 1	.4+70	377.8	35.7		
<u>++80</u> 4+90			14+80 14+90	377.7	34.4	14+80 14+90	376.7	33.0	14+80	375.7	31.4 14+80 31.6 14+90	375.7	28.7 14+80 28.2 14+90	376.7	33.8 1	.4+80 .4+90	377.7	35.6		
>+00 5+10			15+00 15+10	377.6 377.6	33.8 33.5	15+00 15+10	376.6 376.6	32.6 31.9	15+00 15+10	375.6 375.6	31.2 15+00 30.2 15+10	375.6 375.6	28.5 15+00 32.0 15+10	376.6 376.6	34.6 1 35.5 1	.5+00 .5+10	377.6 377.6	35.7 36.4		
5+20 5+30			15+20 15+30	377.5 377.5	32.6 32.0	15+20 15+30	376.5 376.5	31.3 30.7	15+20 15+30	375.5 375.5	29.2 15+20 27.0 15+30	375.5 375.5	33.915+2034.815+30	376.5 376.5	36.2 1 36.9 1	.5+20 .5+30	377.5 377.5	37.2 38.1		
5+40 5+50			15+40 15+50	377.5 377.4	31.8 29.9	15+40 15+50	376.5 376.4	30.2 26.7	15+40 15+50	375.5 375.4	26.3 15+40 23.5 15+50	375.5 375.4	35.4 15+40 35.5 15+50	376.5 376.4	37.5 1 37.8 1	.5+40	377.5 377.4	38.8 39.3		
5+60 5+70			15+60 15+70	377.3 377.3	28.9 28.2	15+60 15+70	376.3 376.3	25.6 24.8	15+60 15+70	375.3 375.3	22.3 15+60 21.5 15+70	375.3 375.3	36.3 15+60 36.0 15+70	376.3 376.3	38.5 1 40.2 1	.5+60 .5+70	377.3 377.3	40.8 42.8		
5+80 5+90			15+80 15+90	377.2 377 1	27.3	15+80 15+90	376.2	23.9	15+80	375.2	20.5 15+80 19.8 15+90	375.2	35.0 15+80 34.7 15+90	376.2	41.7 1	.5+80 .5+90	377.2 377 1	44.6 46 3		
6+00 6+10			16+00 16+10	377.1	26.0	16+00 16+10	376.1	22.7	16+00	375.1	19.3 16+00 18.6 15:10	375.1	34.7 16+00	376.1	44.4 1	.6+00 6+10	377.1	47.9		
6+20			16+20	376.9	23.2	16+20	375.9	21.9	16+20	374.9	18.3 16+20	374.9	37.1 16+20	375.9	45.9 1	.6+20	376.9	50.2		
6+30 6+40			16+30 16+40	376.8 376.8	24.2 23.9	16+30 16+40	375.8	21.1 20.8	16+30 16+40	374.8	17.9 16+30 17.8 16+40	374.8	38.0 16+30 38.3 16+40	375.8	46.1 1 45.9 1	.6+30 .6+40	376.8 376.8	51.2 52.1		
6+50 6+60	377.6 377.5	26.2 25.6	16+50 16+60	376.6 376.5	23.3 22.8	16+50 16+60	375.6 375.5	20.5 20.1	16+50 16+60	374.6 374.5	17.6 16+50 17.4 16+60		16+50 16+60		1	.6+50 .6+60				
6+70 6+80	377.4 377.3	25.2 24.7	16+70 16+80	376.4 376.3	22.7 22.4	16+70 16+80	375.4 375.3	20.2 20.0	16+70 16+80	374.4 374.3	17.6 16+70 17.7 16+80		16+70 16+80		1	.6+70 .6+80				F
6+90	377.1	24.3	16+90	376.1	22.2	16+90	375.1	20.1	16+90	374.1	18.0 16+90		16+90		1	.6+90				
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BANKFULL BENCH TRANSITIONS TO

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Decisional Traces Interface Interface Interface Interface AC 6. 6. ACCER ACCUMPUM BLUGAR MARUE 12 - 2 CAL 607 AC 13 ACCER AUGUMAL BLUGAR MARUE 12 - 2 CAL 607 AC 14 ACCER AUGUMAL BLUGAR MARUE 12 - 2 CAL 607 BC BCULLA ARAYMEDIA BLUGAR MARUE 1 - 2 CAL 607 BC BCULLA ARAYMEDIA BLUGARA MARUE 1 - 2 CAL 607 BC BCULLA ARAYMEDIA BLUGARA MARUE 1 - 2 CAL 607 BC ACAMA MARUE BLUCACHERING 1 - 2 CAL 607 BC ALTAMARUE OCCERENTALS SYCAMORE 1 - 2 CAL 607 BC ALTAMARUE OCCERENTALS SYCAMORE 1 - 2 CAL 607 BC ALTAMARUE OCCERENTALS SYCAMORE 1 - 2 CAL 607 BC ALTAMARUE OCCERENTALS SYCAMORE 1 - 2 CAL 607 BC ALTAMARUE OCCERENTALS SYCAMORUE OCCERENT 1 - 2 CAL 60	<u>KEY</u>	<u>QTY.</u>	BOTANICAL NAME	COMMON NAME	INSTALL SIZF	MAX HT	NOTES
4.4 0 ACCAR SAGCHARENUM SUGAR MAPLE 17-2*CAL 61 4.4 10 ACCER SAGCHARENUM SURFACCEBERRY 4* of the 1 2* 4.1 ACCER SAGCHARENUM SURFACEBERRY 4* of the 1 7* 7* 4.8 1 ACCER SAGCHARENUM SUVER MAPLE 17* 2* CAL 67 4.2 1 ACCER SAGCHARENUM SUVER MAPLE 17* 2* CAL 67 4.3 ACCER SAGCHARENUM SUVER MAPLE 17* 2* CAL 67 5.2 3 SETEXAND CONCENTRAL SUVERMORE 7* 2* CAL 67 5.4 9 ACATANUS CONCENTRAL SUVERMORE 17* 2* CAL 67 7.4 9 ACATANUS CONCENTRAL SUVERMORE 7* 2* CAL 67 7.4 7 ACATANUS CONCENTRAL SUVERMORE 7* 2* CAL 67 7.4 7 ACATANUS CONCENTRAL SUVERMORE 7* 2* CAL 67 MULTI-STEM CLUMF 7.4 7 ACATANUS SUVERMORE SUVERMORENCE 7* 2* 1* 1*	DECID		TREES	1	<u></u>	<u></u>	I
A 10 Δαθέ μιθισμά Separate 1/2 1/2 1/2 A 10 Δάδε μιθισμά RED MARLE 1/2 2/2 1/2 B 4 Δάζε βαιθισμά RED MARLE 1/2 2/2 1/2 BPA 6 Betrak Aseymetea PAPER BIRCH 0 1/2 1/2 1/2 BPA 10 MAUSS SEBOLIN TORINGO CRABAPPLE 1/2 2/2 1/	AC	5	ACER SACCHARUM	SUGAR MAPLE	1 ½" - 2" CAL	80'	
AM 13 ACCEPT ACCOMARD/LIAM NED MAPLE 1 2 Col 10 AS 4 ACCEPT ACCOMARD/LIAM SILVER MAPLE 1 2 1 AS 4 ACCEPT ACCOMARD/LIAM SILVER MAPLE 1 2 1 BP2 3 ACTULA PAPYNIFCA PARER BISCH 1 -0 1 BP3 ACTULA PAPYNIFCA PARER BISCH 1 -0 1 2 PA 10 RALESSOLD TORINGO CREARMEND (2) 2 1 2 PA ACTULA PAPYNIFCA ACATARIAS COCOMENTALIS SYCAMORE 1 2 2 PA ACATARIAS COCOMENTALIS SYCAMORE 1 2 AULTI-STEM CLUMP PT 4 AUTURAS SECTORIS SYCAMORE 7 2 AULTI-STEM CLUMP COL 4 AUTURAS SECTORIS SYCAMORA AREN OF 2 7 2 AULTI-STEM CLUMP COL 4 AUTURAS SECTORIS SYSTEM NUBA SECTORIS SYSTEM NUBA SECTORIS <t< td=""><td>AL</td><td>10</td><td>AMELANCHIER LAEVIS</td><td>SERVICEBERRY</td><td>4' - 5' HT</td><td>20'</td><td></td></t<>	AL	10	AMELANCHIER LAEVIS	SERVICEBERRY	4' - 5' HT	20'	
As 4 Access successments <	AR	13	ACER RUBRUM	RED MAPLE	1 1/2" - 2" CAL	60'	
BP:1 B ECTULY APPAPERTEAN PAPER BIRCH C D DID 3 ACTULY APPAPERTEAN PAPER BIRCH C D DID 10 MALUS SERIOLOL TORINGO CRABAPPLE 17 - 2° CAL 67 DID 10 MALUS SERIOLOL TORINGO CRABAPPLE 17 - 2° CAL 67 DID 10 MALUS SERIOLOL TORINGO CRABAPPLE 17 - 2° CAL 67 DID 10 PATAKAS OCCIDENTALIS SYCAMORE 17 - 2° CAL 57 DID 10 POPGLUS DELTONCES BLASING CALCHERRY 17 - 2° CAL 57 MULTHSTEM CLUMP DID 11 POPGLUS TECMALOORES DUARNE ASPEC 17 - 2° CAL 57 MULTHSTEM CLUMP DID DUARNELS TECMALORES	AS	4	ACER SACCHARINUM	SILVER MAPLE	1 ½" - 2" CAL	70'	
Bits Bit Bits	BP-1	6	BETULA PAPYRIFERA	PAPER BIRCH	6' - 8'Ht	60'	
CO 6 CAREFU DUATS SPACEBARK HIGKORY 19: -7: CAL 67 MP 10 MALUS SERIOLD TORINGO CRABAPPLE 19: -7: CAL 67 PA2 6 PLATANIS OCCUMENTALIS SYCAMORE 17: -7: CAL 67 PA2 6 PLATANIS OCCUMENTALIS SYCAMORE 7: -7: CAL 67 PA4 6 PRUNIS OCCUMENTALIS SYCAMORE 7: -7: CAL 67 PA4 6 PRUNIS OCCUMENTALIS SYCAMORE 7: -7: CAL 67 PT4 14 PORLISS TREMALODES GLAKING ASPEN 19: -7: CAL 67 PT4 14 PORLISS TREMALODES GLAKING ASPEN 19: -7: CAL 67 PT4 14 PORLISS TREMALODES GLAKING ASPEN 19: -7: CAL 67 PT4 14 PARTANIS OCCUMENTALIS PARTANIS 10:	BP-2	3	BETULA PAPYRIFERA	PAPER BIRCH	8" - 10' HT	60'	
Math 10 Multi Schedules TORNAGO GABAPPLE 1/1 - 2' - GA NS PAL P PLATANUS GOODENTALIS SYCARORE 2' - 2' - 2' - GA BO PI 8 POPLATANUS GOODENTALIS SYCARORE 2' - 2' - 2' - GA BO PI 8 POPLATANUS GOODENTALIS SYCARORE 2' - 2' - CA BO PI 14 POPLAUS DELTODES GASTERN COTTONNOOD 1' - 2' CAL BO PI 14 POPLAUS TREMULADES GUARKINA SAMP WHITE GAK 2' - 2' CAL SO MULTI-STEM CLUMP PI 14 POPLAUS TREMULADES GUARKINA SAMP WHITE GAK 2' - 2' CAL SO MULTI-STEM CLUMP PI 14 PARUS STROBUS EASTERN WHITE PINE 1' - 2' CAL SO 1'	СО	6	CARYA OVATA	SHAGBARK HICKORY	1 ½" - 2" CAL	90'	
PA1 0 PAATANUS COCORDINATURS SYCAMORE 12-2°CAL 60 PA2 8 PATANUS COCORDINATURS SYCAMORE 12-2°CAL 60 P1 PADALES DELTIDES CANTERN COTTONINGOD 12-2°CAL 60 P1 14 POPULUS TREMUCIORES CUANING ASPEN 12-2°CAL 60 P1 14 POPULUS TREMUCIORES CUANING ASPEN 12-2°CAL 60 MULTI-STEM CUMP 0 0 CARCERUS BROCLOP SWAMP WHITE DAR 12-2°CAL 60 MULTI-STEM CUMP 24 JUNINES EASTERN WHITE PINE 12-0°CAL 60	MP	10	MALUS SEIBOLDII	TORINGO CRABAPPLE	1 ½" - 2" CAL	15'	
PA2 0 PLATANUS OCCUBENALS SYCAMORE 2'-2' CL 80 PO 0 POPULUS DEL TODES EASTERN COTTONNOO 12'-2' CL 80 PT1 14 POPULUS TREMULODES QUARING ASPEN 12'-2' CL 80 PT1 14 POPULUS TREMULODES QUARING ASPEN 12'-2' CL 80 MULTI-STEM CLUMP PT2 6 POPULUS TREMULODES QUARING ASPEN 12'-2' CL 80 MULTI-STEM CLUMP PT2 14 POPULUS TREMULODES QUARING ASPEN 12'-2' CL 80 MULTI-STEM CLUMP PT2 1 POPULUS TREMULODES QUARING ASPEN 12'-2' CL 80 10 POPULUS TREMULODES POPULUS TREMULOS POPULUS TREMULOS POPULUS TREMULOS POPULUS TREMULOS POPULUS TREMULOS POPULUS POPULUS TREMULOS POPULUS TREMULOS	PA-1	9	PLATANUS OCCIDENTALIS	SYCAMORE	1 ½" - 2" CAL	90'	
PI 9 PCP/LULE DELTIDUES ENSTREM CONTON/NOOD 1/2 - 2' CAL RS PI 6 PRIAUS SERIOTIAN BLACK CHERRY 1/2 - 2' CAL RS PT1 1 POPALUS TREMULIDUES QUARING ASPEN 1/2 - 2' CAL RS MULTI-STEM CLUMP PT2 5 POPALUS TREMULIDUES QUARING ASPEN 1/2 - 2' CAL RS MULTI-STEM CLUMP PT3 6 QUERCUS BROCUS ROCUR WARMAY WHITE CAK 2 - 2' CAL RS MULTI-STEM CLUMP VENDEENT U 2.4 JUMPERUS VIRGUMANA EASTERN WHITE PINE S - 8 HT 60	PA-2	5	PLATANUS OCCIDENTALIS	SYCAMORE	2" - 2 <u>1</u> " Cal	90'	
PM B PMULUS SERIORIMA BLACK CHERRY 1, ¹¹ -2' CA. BT PM 14 PAORUUS TREMULOQES CUANKIA SAPENA 0'-0' HT. 60' MULTISTEM CLUMP B QUERCUS BREALOQES CUANKIA SAPENA 2'-2' CAL 60' MULTISTEM CLUMP CB B QUERCUS BREALORES CUANKIA SAPENA 2'-2' CAL 60' MULTISTEM CLUMP CR 2 JUNIFERSTUS VIRGINIANA EASTERN RED CEDAR 0'-0' HT 60' CUANKIA SAPENCE 2'-0' HT 60' CUANKIA CUANKIA </td <td>PD</td> <td>9</td> <td>POPULUS DELTOIDES</td> <td>EASTERN COTTONWOOD</td> <td>1 ½" - 2" CAL</td> <td>85'</td> <td></td>	PD	9	POPULUS DELTOIDES	EASTERN COTTONWOOD	1 ½" - 2" CAL	85'	
PT-1 14 POPULUS TREAMLODES QUANING ASPEN 9 - P HT. S7 MULTI-STEM CLUMP PT-2 6.4 POPULUS TREAMLODES QUANING ASPEN 12 - 2 CAL S7 MULTI-STEM CLUMP Q1 2 JUNCES RECURD SWAMP WHITE OAK 2' - 2 CAL S7 MULTI-STEM CLUMP Q1 2 JUNCES RECURD SWAMP WHITE OAK 2' - 2 CAL S7 MULTI-STEM CLUMP Q1 12 JUNCES RECURD SWAMP WHITE OAK 2' - 2 CAL S7 ST Q2 JUNCES RECURD EASTEEN WHITE PINE 5' - 6' HT ST CUANTS PS2 2 PRUSS STROBUS EASTEEN WHITE PINE 6' - 8' HT ST SH 10 CORNUS SERVECA RED CHOKEBERRY 17' - 2' - 3'' HT 17' SM 14 FUNCHISTING MUCHIAR ALEDER 2' - 3'' HT 17' 2'' - 3'' HT SM 13 SALX DISCOLOR PUSSY WILLOW 16' - 2'' HT 17' SALK DISCOLOR PUSSY WILLOW 16' - 2'' HT 17' INTELL 3'' O'C. SM GOR	PR	6	PRUNUS SEROTINA	BLACK CHERRY	1 ½" - 2" CAL	80'	
PT-2 5 POPULOS TREMULCIONS QUARING ASPEN IP - 2 (L) DI MULTI-STEM CLUMP Q B QUERCIOS RICOLOR SUMAP WHITE DAK. Z - 2 (C) DI MULTI-STEM CLUMP Y 24 JUNPERUS VIRGINIAMA EASTERN RED CEDAR G - 9 HT GO DI PI 17 PICEA GLUCA WHITE DARUE S - 8 HT GO DI SHEUTS DINUS STROBUS EASTERN WHITE DARUE S - 8 HT GO DI DI SHEUTS DINUS STROBUS EASTERN WHITE DARUE S - 8 HT GO DI	PT-1	14	POPULUS TREMULOIDES	QUAKING ASPEN	6' - 8" HT.	50'	MULTI-STEM CLUMP
08 0 04800000000000000000000000000000000000	PT-2	5	POPULUS TREMULOIDES	QUAKING ASPEN	1 ½" - 2" CAL	50'	MULIT-STEM CLUMP
EVENENCE THESE 19 24 JUMPER SURGIMANA EASTERN RED CEDAR 6'-5' HT 60' 10 PROCA GLAVICA WHITE SPRUCE 5'-6' HT 60' 10 PROUS STROBUS EASTERN WHITE PINE 5'-6' HT 60' 110 PROUS STROBUS EASTERN WHITE PINE 6'-8' HT 6' 111 PROUS STROBUS EASTERN WHITE PINE 6'-8' HT 6' 111 PROUS STROBUS EASTERN WHITE PINE 6'-8' HT 6' 111 PROUS STROBUS EASTERN WHITE PINE 6'-8' HT 6' 111 PROUNS STROBUS RED TWIG DOGWOOD 24'-3' HT 1' 111 PROUNS STROBUS MITTERBERRY 24'-36' HT 1' 111 PROUNS STROBUS AMERICAN BEDER 24'-36' HT 1' 111 PROUNS STROCA RED DISK WILLOW 18'-24' HT 1' 111 PROUNS STROCA REDOR PROUND 1' NSTALL 3'' O.C. PER 111 PROUNS STROCA GRAD DOGWOOD PEPEP OL	QB	8	QUERCUS BICOLOR	SWAMP WHITE OAK	2" - 2 ¹ / ₂ " CAL	50'	
JUN 224 JUNIPERIUS WRGINMAM EASTERN RED CEDAR 6 - 3 + HT 607 PG 17 PICEA GLAUCA WHITE SPRUCE 5' - 5' HT 607 PS1 10 PULSS STROBUS EASTERN WHITE PINE 6'' - 5'' HT 607 SHUUSS ARAMA ARBUTTFOLIA RED CHOKEBERRY 15'' - 24'' HT 6'' SHUUSS ICORNUS SERGEA RED CHOKEBERRY 15'' - 24'' HT 6'' N 19 CORNUS SERGEA RED CHOKEBERRY 24'' - 36'' HT 6'' N 19 ILCX VERTICILLATA WINTERBERRY 24'' - 36'' HT 15' N 19 ILCX VERTICILLATA WINTERBERRY 24'' - 36'' HT 15' SC 15 SAMBUCUS CANADENSIS ARERICAN ELDER 24'' - 36'' HT 15' SC 15 SAMBUCUS CANADENSIS ARERICAN ELDER 24'' - 36'' HT 16'' SAMBUCUS CANADENSIS ARERICAN ELDER 24'' - 36'' HT 15' NSTALL 3'' O'' SAMBUCUS CANADENSIS ARERICAN ELDER 24'' - 36'' HT 15''	EVER	GREEN	N TREES	1	1		
PG 17 PICEA GLAUCA WHITE SPRUCE S-0 HT 60' PSI 10 PRUS STROBUS EASTERN WHITE PINE S-0 HT 60' PSI 2 PRUS STROBUS EASTERN WHITE PINE S'-0 HT 60' ARA 23 ARONIA ARBUTHOLA RED CHOKEBERRY 16'-24'HT 6' CIR 11 CORNUS SERICEA RED TWIG DOGWOOD 24''-36'HT 8' CIS 14 CORNUS SERICEA RED TWIG DOGWOOD 24''-36'HT 8' SC 15 SAMBUCUS CANADENSIS AMERICAN LEDER 24''-36'HT 1' SC 15 SAMENCESCARRE RED-03SER DOGWOOD P' DEEP 1' NSTALL 3'' OC. 16 00 CORNUS ARCEMOSA GRAY DOGWOOD	JV	24	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6' - 8' HT	60'	
PS-1 10 PINUS STROBUS EASTERN WHITE PINE 5 - 6'HT 60 PS-2 2 PINUS STROBUS EASTERN WHITE PINE 6' - 6'HT 60' SHRUES AR 23 ARONIA ARBUTFOLIA RED CHOKEBERRY 19' - 24' HT 8' CR 11 CORNUS BACEMOSA GRAY DOGWOOD 24' - 36' HT 17' CR 14 CARMUS BRICEA RED TWIG DOGWOOD 24' - 36' HT 17' VI 14 FARMMANELIS VIRGINIANA WITCH HAZEL 36' - 48' HT 17' S0 13 SALIX DISCOLOR PUSSY WILLOW 18' - 24' HT 17' S0 13 SALIX DISCOLOR PUSSY WILLOW 18' - 24' HT 17' S0 13 SALIX DISCOLOR PUSSY WILLOW 18' - 24' HT 17' S0 CORNUS SERICEA RED-DISCE DOGWOOD PUCCELL 10' INSTALL 3'' OC. 400 CORNUS AMONUN SERICEA REAV DOGWOOD PUCCELL 10' INSTALL 2'' OC. PER 4130 SALIX INTERIOR SANDBAR WILLOW <td>PG</td> <td>17</td> <td>PICEA GLAUCA</td> <td>WHITE SPRUCE</td> <td>5' - 6' HT</td> <td>60'</td> <td></td>	PG	17	PICEA GLAUCA	WHITE SPRUCE	5' - 6' HT	60'	
PR-2 2 PM/US STROBUS EASTERN WHITE PINE 0'-6'HT BT AA 23 AROMA ARBUTFOLIA RED CHOKEBERRY 18'-24''HT 8' CB 11 CORNUS SERICEA RED TWIG DOGWOOD 24'-36''HT 15' CB 18 CORNUS SERICEA RED TWIG DOGWOOD 24'-36''HT 15' CB 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24'-36''HT 15' CB 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24'-36''HT 15' VD 27 VIBURNUM DENTATUM ARROWNOOD VIBURNUM 24'-36''HT 15' VD 27 VIBURNUM DENTATUM ARROWNOOD VIBURNUM 24'-36''HT 15' VD 27 VIBURNUM DENTATUM ARROWNOOD VIBURNUM 24'-36''HT 15' VD 27 VIBURNUM DENTATUM ARROWNOOD PLUC CLL 9' INSTALL 3''O C. VD 27 VIBURNUM DENTATUM ARROWNOOD PLUC CLL 9' INSTALL 3''O C. 200 CORNUS SAROEMA <td>PS-1</td> <td>10</td> <td>PINUS STROBUS</td> <td>EASTERN WHITE PINE</td> <td>5' - 6' HT</td> <td>60'</td> <td></td>	PS-1	10	PINUS STROBUS	EASTERN WHITE PINE	5' - 6' HT	60'	
SHEUES A 23 ARONIA ARBUTFOLIA RED CHOKEBERRY 19" - 4" HT 9" CR 11 CORNUS SERICEA RED TWIG DOGWOOD 24" - 39" HT 19" IN 14 HAMMAMELIS VIRGIMANA WITCH HAZEL 39" - 48" HT 19" IN 19 LEX VERTICILLATA WINTERBERRY 24" - 39" HT 19" SO 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24" - 39" HT 19" SO 13 SALIX DISCOLOR PUSSY WILLOW 19" - 48" HT 19" ARONNOM DENTATUM ARROWNOOD VIBURUM 19" - 48" HT 19" 10" ARANDUM DENTATUM ARROWNOOD VIBURUM 19" - 48" HT 19" 10" ARANDUM DENTATUM ARROWNOOD VIBURUM 19" - 48" HT 19" INSTALL 3" O.C. 450 CORNUS ARACEMOSA GRAY DOGWOOD FUEGEL 9" INSTALL 3" O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD FUEGE CONNECH IP" OF COR BLOCK 450 CORNUS RACEMOSA GRAY DOGWOOD FUEGE CONNECH	PS-2	2	PINUS STROBUS	EASTERN WHITE PINE	6' - 8' HT	60'	
An 23 IRONIA ARBUTFOLIA RED CHOKEBERRY 18' - 24' HT 8' CR 11 CORNUS SERICEA RED TWIG DOGWOOD 24' - 36' HT 15' CN 14 CAMMUS SERICEA RED TWIG DOGWOOD 24'' - 36' HT 15' IN 14 HAMMUMELIS WIGHINAN WITCH HAZEL 36' - 48' HT 15' SC 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24'' - 36' HT 12' SC 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24'' - 36' HT 12' SD 13 SALIX DISCOLOR PUSSY WILLOW 18'' - 44' HT 15' QD 27' VIBURNUM DENTATUM ARROWNOOD VIBURNUM 24'' - 36' HT 10' ANN RESTORATION TYPE A (10.4195P) REFER TO DETAIL SHEET D> 4 D - FOR INSTALL METHODS 9'DEEP 10' INSTALL 3'' O C PER 400 CORNUS AMOMUM SILKY DOGWOOD S'DEEP 11' INSTALL 3'' O C PER 4150 SALIX NUGRA BLACK WILLOW LIVE STAKE 10' INSTALL 3'' O C PER 541 7	SHRU	BS	Γ	1	1	1	Ι
CR 11 CORNUS FACEMOSA GRAY DOGWOOD 24*-35* HT 15 C3 14 CORNUS SERICEA RED TWIG DOGWOOD 24*-35* HT 6* N 14 HAMMAMELIS VIRGINIANA WITCH HAZEL 36*-48* HT 15 N 19 LEX VERTICILATA WITCH HAZEL 36*-48* HT 15 S0 13 SALIX DISCOLOR PUSSY WILLOW 18*-24* HT 15' VD 27 VIBURNUM DENTATUM ARROWOOD VIBURNUM 24*-35* HT 10' SAMK RESTORATION TYPE A (10.41985) REFER TO DITAL SHEET D-5.8.D-9 GRN INSTALL METHODS 9' INSTALL 3*' O.C. 450 CORNUS SERICEA RED-OISER DOGWOOD 9''DEEP PLUG CELL 1'' INSTALL 3*'' O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 9''DEEP PLUG CELL 1'' INSTALL 3*'' O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 9''PLUG INSTALL 3*'O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 9''PLUG INSTALL 3*'O.C. 451 SALIX INTERIOR SANDBAR WILLOW LVE STAKE 1''NS	AA	23	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	18" - 24" HT	8'	
CS 16 CORNUS SERICEA RED TWIG DOGWOOD 24°-38° HT 8' HY 14 HAMMAMELIS VIRGINIANA WITCH HAZEL 36°-48° HT 15 N 19 ILEX VERTICULATA WITCH HAZEL 36°-48° HT 15 SC 15 SAMBUCUS CAMADENSIS MERICAN ELDER 24°-38° HT 12 VD 27 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 18°-24° HT 15 VD 27 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 24°-38° HT 10' DANK RESTORATION TYPE A (10,4195F) REFER TO DETAIL SHEET D-5 AD 6 FOR INSTALL METHODS 9' 100 CCRNUS SARCEMOSA GRAY DOGWOOD 5' DEEP 450 CORNUS RACEMOSA GRAY DOGWOOD 5' DEEP 15' INSTALL 34° O.C. 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 17' INSTALL 34° O.C. 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 17' INSTALL 34° O.C. 951 SALIX NIGRA BLACK WILLOW LIVE STAKE 17' INSTALL 34° O.C. 952 SALIX NIGRA BLACK WILLOW <td>CR</td> <td>11</td> <td>CORNUS RACEMOSA</td> <td>GRAY DOGWOOD</td> <td>24" - 36" HT</td> <td>15'</td> <td></td>	CR	11	CORNUS RACEMOSA	GRAY DOGWOOD	24" - 36" HT	15'	
INV 14 HAMMAARELIS VIRGINIANA WITCH HAZEL 38"-48"HT 15' IN 19 HEX VERTICILATA WINTERBERRY 24"-38"HT 12' SC 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24"-38"HT 12' SD 13 SALUX DISCOLOR PUSSY WILLOW 18"-24"HT 15' V0 27 VIBURNUM DENTATUM ARROWNOOD VIBURNUM 24"-38"HT 10' SANK RESTORATION TYPE A (10.4193F) REFER TO DETAIL SHEET D-5 & D-6 FOR INSTALL METHODS 5' 10' INSTALL 36" O.C. 300 CORNUS SERICEA RED-GISER DOGWOOD 5'' DEEP PLUG CELL 1'' INSTALL 36" O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 5'' DEEP PLUG CELL 1'' INSTALL 36" O.C. 451 CORNUS RACEMOSA GRAY DOGWOOD 5'' DEEP PLUG CELL 1'' INSTALL 34" O.C. (CR RUCK 450 CORNUS RACEMOSA GRAY DOGWOOD S'' DEEP PLUG CELL 1'' INSTALL 34" O.C. (CR RUCK 451 INSTALL SA'' O.C. (CR RUCK IV' E STAKE 1'' INSTALL 34" O.C. (CR RUCK 54-1 T SALIX NITERIOR SANDBAR WILLOW IV'E STAKE 1'' INSTALL 34" O.C. (CR RUCK 54	CS	18	CORNUS SERICEA	RED TWIG DOGWOOD	24" - 36" HT	8'	
IN 19 LEX VERTICILLATA WINTERBERRY 24"-36"HT 8" SC 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24"-36"HT 12 SD 13 SALIX DISCOLOR PUSSY WILLOW 18"-24"HT 16" VD 27 VIBURNUM DENTATUM ARROWOOD VIBURNUM 24"-36"HT 10" ABAN ERSTORATION TYPE A (10.4195F) REFET TO DETAIL SHEET D-3 & D.6 FOR INSTALL METHODS 9" 10" INSTALL 38" O.C. 900 CORNUS SERICEA RED-OISER DOGWOOD 9" DEEP PLUG CELL 9" INSTALL 38" O.C. 450 CORNUS AMOMUM SILYP DOGWOOD 9" DEEP PLUG CELL 10" INSTALL 34" O.C. PER LF OF COR BLOCK 450 CORNUS AMOMUM SILYP DOGWOOD JEVEN CELL 15" INSTALL 24" O.C. PER LF OF COR BLOCK 450 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10" INSTALL 24" O.C. PER LF OF COR BLOCK 250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12" INSTALL 24" O.C. PER LF OF COR BLOCK 250 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 12" INSTALL 24" O.C. PER LF OF COR BLOCK 250	ΗV	14	HAMMAMELIS VIRGINIANA	WITCH HAZEL	36" - 48" HT	15'	
SC 15 SAMBUCUS CANADENSIS AMERICAN ELDER 24'- 34' HT 12 SD 13 SALX DISCOLOR PUSSY WILLOW 19'- 24' HT 15' VD 27 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 24'- 36'' HT 10' SARK RESTORATION TYPE A (10,4195F) REFER TO DETAIL SHEET D-5 & Def CORINSTALL METHODS 9''''''''''''''''''''''''''''''''''''	IV	19	ILEX VERTICILLATA	WINTERBERRY	24" - 36" HT	8'	
SD 13 SALIX DISCOLOR PUSSY WILLOW 18" - 24" HT 15" VD 27 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 24" - 35" HT 10" SANK RESTORATION TYPE A (10,4199F) REFER TO DETAIL SHEET D-6 & D-6 PCH ISTALL METHODS 600 CORNUS SERICEA RED-OISER DOGWOOD 5" DEEP PLUG CELL 10" INSTALL 36" O.C. 300 CORNUS RACEMOSA GRAY DOGWOOD 5" DEEP PLUG CELL 10" INSTALL 24" O.C. PER LO CORNUS RACEMOSA 450 CORNUS RACEMOSA GRAY DOGWOOD 5" DEEP PLUG CELL 10" INSTALL 24" O.C. PER LO COR DLOCK 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10" INSTALL 24" O.C. PER LO COR DLOCK 3400 CORNUS CANADENSIS AMERICAN ELDER LIVE STAKE 10" INSTALL 24" O.C. PER LO COR DLOCK 351 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 12" INSTALL 24" O.C. PER LO COR DLOCK 250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12" INSTALL 24" O.C. PER LO COR DLOCK 250 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 10" INSTALL 24" O.C. PER LO CO COR DLOCK 250 SALIX	SC	15	SAMBUCUS CANADENSIS	AMERICAN ELDER	24" - 36" HT	12'	
VD 27 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 24'- 33' HT 10' SANK RESTORATION TYPE A (10.419SF) REFER TO DETAIL SHEET D-S & D-9 FOR INSTALL METHODS 900 CORNUS SERICEA RED-0ISER DOGWOOD PLUG CELL 9' INSTALL 36' O.C. 301 CORNUS AMOMUM SILKY DOGWOOD S' DEEP 9' INSTALL 36' O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD S' DEEP 10' INSTALL 36' O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD S' DEEP 10' INSTALL 36' O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD S' DEEP 10' INSTALL 34' O.C. PER 950 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24'' O.C. PER 950 SALIX NIGRA BLACK WILLOW #S POT BOP COLOR BLOCK 2400 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24''O.C. PER 250 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24''O.C. PER 220 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24''O.C. PER	SD	13	SALIX DISCOLOR	PUSSY WILLOW	18" - 24" HT	15'	
BANK RESTORATION TYPE A (10.419SP) REFER TO DETAIL SHEET D.5 & D-9 FOR INSTALL METHODS 600 CORNUS SERICEA RED-0ISER DOGWOOD 9° DING CELL 9° INSTALL 36° O.C. 300 CORNUS AMOMUM SILKY DOGWOOD 5° DEEP PLUIG CELL 10° INSTALL 36° O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 5° PLUG DEEP CELL 15° INSTALL 36° O.C. 1150 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER ILF OF COIR BLOCK 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15° INSTALL 24° O.C. PER ILF OF COIR BLOCK 3ANK RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-S & D-9 FOR INSTALL METHODS 10° INSTALL 24° O.C. PER ILF OF COIR BLOCK 250 SALIX NIGRA BLACK WILLOW 16° INSTALL 24° O.C. PER ILF OF COIR BLOCK 220 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 12° INSTALL 24° O.C. PER ILF OF COIR BLOCK 220 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER ILF OF COIR BLOCK 230 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER ILF OF COIR BLOCK 240 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER ILF OF COIR BLOCK	VD	27	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24" - 36" HT	10'	
600 CORNUS SERICEA RED-OISER DOGWOOD 9 ¹ INSTALL 36" O.C. 300 CORNUS AMOMUM SILKY DOGWOOD 9 ¹ INSTALL 36" O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 9 ² INSTALL 36" O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD 9 ² INSTALL 36" O.C. 11150 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10 ² INSTALL 36" O.C. 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15 ³ INSTALL 24" O.C. PER 30AK RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-5 & D.6 FOR INSTALL METHODS 80 ⁴ 10 ⁴ INSTALL 24" O.C. PER 220 SALIX NIGRA BLACK WILLOW #SPOT 60 ⁴ 30AK RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-5 & D.6 FOR INSTALL METHODS 10 ¹ INSTALL 24" O.C. PER 220 SALIX HUMILIS PRARIE WILLOW LIVE STAKE 12 ¹ INSTALL 24" O.C. PER 220 SALIX HUMILIS PRARIE WILLOW LIVE STAKE 10 ¹ INSTALL 24" O.C. PER 220 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10 ¹ INSTALL 24" O.C. PER 2	BANK	REST	DRATION TYPE A (10,419SF)	REFER TO DETAIL SHEET D	<u>-5 & D-6 FOR I</u>	NSTAL	L METHODS
300 CORNUS AMOMUM SILKY DOGWOOD ST DEEP PLUG CELL 10' INSTALL 36' O.C. 450 CORNUS RACEMOSA GRAY DOGWOOD S' PLUG DEEP CELL 15' INSTALL 36' O.C. 1150 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER LF OF COIR BLOCK 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER LF OF COIR BLOCK 3ANK RESTORATION TYPE B - 2,0405F - REFER TO DETAIL SHEET D-5 & D-6 FOR INSTALL METHODS 10' INSTALL 24'' O.C. PER LF OF COIR BLOCK 250 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 12' INSTALL 24'' O.C. PER LF OF COIR BLOCK 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24'' O.C. PER LF OF COIR BLOCK 201 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24'' O.C. PER LF OF COIR BLOCK 202 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24'' O.C. PER LF OF COIR BLOCK 203 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24'' O.C. PER LF OF COIR BLOCK 304 ACER RUBRUM RED MAPLE JARE ROOT		600	CORNUS SERICEA	RED-OISER DOGWOOD	5" DEEP PLUG CELL	9'	INSTALL 36" O.C.
450 CORNUS RACEMOSA GRAY DOGWOOD 5"PLUG 15" INSTALL 36" O.C. 1150 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10" LF OF CORR BLOCK 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15" INSTALL 24" O.C. PER 151 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15" INSTALL 24" O.C. PER 250 SALIX NIGRA BLACK WILLOW KP POT SAPLING 60" 250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12" INSTALL 24" O.C. PER 250 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 12" INSTALL 24" O.C. PER 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10" INSTALL 24" O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 16" 15" LF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15" LF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15" LF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLO		300	CORNUS AMOMUM	SILKY DOGWOOD	5" DEEP PLUG CELL	10'	INSTALL 36" O.C.
1150 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER LF OF COR BLOCK 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 19° INSTALL 24° O.C. PER LF OF COIR BLOCK 84.1 7 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 19° INSTALL 24° O.C. PER LF OF COIR BLOCK 84.1 7 SALIX NIGRA BLACK WILLOW #5 POT SAPLING 60° 340K RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-5 & De FOR INSTALL METHODS 10° INSTALL 24° O.C. PER LF OF COIR BLOCK 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 12° INSTALL 24° O.C. PER LF OF COIR BLOCK 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER LF OF COIR BLOCK 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER LF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER LF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10° INSTALL 24° O.C. PER LF OF COIR BLOCK 201 SALIX PURPUREA STREAMCO WILLOW		450	CORNUS RACEMOSA	GRAY DOGWOOD	5" PLUG	15'	INSTALL 36" O.C.
1100 SALUA WILLOW Live STALL 10 LF OF COR BLOCK 950 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15' INSTALL 24' O.C. PER 241 7 SALIX NIGRA BLACK WILLOW #5 POT SAPLING 60' 390NK RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-5 & D-6 FOR INSTALL METHODS 10' INSTALL 24' O.C. PER 250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12' INSTALL 24' O.C. PER 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE		1150				10'	INSTALL 24" O.C. PER
990 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15 LP OF COIR BLOCK SA-1 7 SALIX NIGRA BLACK WILLOW #5 POT SAPLING 60' SANK RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-5 & D-6 FOR INSTALL METHODS 10' INSTALL 24' O.C. PER LP OF COIR BLOCK 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 12' INSTALL 24' O.C. PER LP OF COIR BLOCK 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER LP OF COIR BLOCK 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 8' INSTALL 24' O.C. PER LP OF COIR BLOCK 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 15' INSTALL 24' O.C. PER LP OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15' INSTALL 24' O.C. PER LP OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15' INSTALL 24' O.C. PER LP OF COIR BLOCK 301 ACER RUBRUM RED MAPLE // TUBELING / TUBELING 60'		1150			LIVE STARE		LF OF COIR BLOCK
SA-1 7 SALIX NIGRA BLACK WILLOW BOPLING SAPLING 60' SANK RESTORATION TYPE B - 2.040SF - REFER TO DETAIL SHEET D-5 & D-6 FOR INSTALL METHODS 250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12' INSTALL 24' O.C. PER LF OF COIR BLOCK 250 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 10' INSTALL 24' O.C. PER LF OF COIR BLOCK 250 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 8' INSTALL 24' O.C. PER LF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 8' INSTALL 24' O.C. PER LF OF COIR BLOCK 30RE ROOT / TUBELINGS SAREANCO WILLOW LIVE STAKE 15' INSTALL 24' O.C. PER LF OF COIR BLOCK 30RE ROOT / TUBELINGS SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15' INSTALL 24' O.C. PER LF OF COIR BLOCK 338 ACER RUBRUM RED MAPLE // TUBELING 60'		950	SALIX PURPUREA	STREAMCO WILLOW		15'	LF OF COIR BLOCK
BANK RESTORATION TYPE B - 2,040SF - REFER TO DETAIL SHEET D-5 & D-6 FOR INSTALL METHODS 250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12' INSTALL 24'' O.C. PER 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10' INSTALL 24'' O.C. PER 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 8' INSTALL 24'' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 8' INSTALL 24'' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 8' INSTALL 24'' O.C. PER 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15' INSTALL 24'' O.C. PER 201 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15' INSTALL 24'' O.C. PER 202 SALAY BURPUREA STREAMCO WILLOW LIVE STAKE 16' INSTALL 24'' O.C. PER 203 SACER RUBRUM RED MAPLE BARE ROOT 10' INSTALL 24'' O.C. PER 204 ACER RUBRUM SILVER MAPLE BARE ROOT 10' INSTALL 24'' O.C. PER 205 ACER RUBRUM SILVER MAPLE BARE ROOT 10	SA-1	7	SALIX NIGRA	BLACK WILLOW	SAPLING	60'	
250 SAMBUCUS CANADENSIS AMERICAN ELDER LIVE STAKE 12 INSTALL 24" 0.C. PER LF OF COR BLOCK 200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10 INSTALL 24" 0.C. PER LF OF COR BLOCK 200 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 8' INSTALL 24" 0.C. PER LF OF COR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 8' INSTALL 24" 0.C. PER LF OF COR BLOCK 3ARE ROOT / TUBELINGS AR 35 ACER RUBRUM RED MAPLE BARE ROOT / TUBELING 60' INSTALL 24" 0.C. PER LF OF COR BLOCK AR 35 ACER RUBRUM RED MAPLE BARE ROOT / TUBELING 60' INSTALL 24" 0.C. PER LF OF COR BLOCK BP 52 BETULA PAPYRIFERA PAPER BIRCH JARE ROOT / TUBELING 60' INSTALL 24" 0.C. PER LF OF COR BLOCK PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT / TUBELING 60' INSTALL 24" 0.C. PER LF OF COR BLOCK PS 45 PINUS STROBUS EASTERN COTTONWOOD BARE ROOT / TUBELING 60' INSTALL 24" 0.C. PER LF OF COR BLOCK QB 23 QUERCUS BICOLOR SWAMP WHITE OAK	BANK	REST	ORATION TYPE B - 2,040SF -	REFER TO DETAIL SHEET I	<u>D-5 & D-6 FOR</u>	INSTA	LL METHODS
200 SALIX INTERIOR SANDBAR WILLOW LIVE STAKE 10" INSTALL 24" O.C. PER IF OF COR BLOCK 250 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE 8" INSTALL 24" O.C. PER IF OF COR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 8" INSTALL 24" O.C. PER IF OF COR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 8" INSTALL 24" O.C. PER IF OF COR BLOCK 3ARE ROOT / TUBELINGS ACER RUBRUM RED MAPLE IVE STAKE 15" INSTALL 24" O.C. PER IF OF COR BLOCK 3ARE ROOT / TUBELINGS ACER RUBRUM RED MAPLE BARE ROOT / TUBELING 60" IVE STAKE AS 35 ACER SACCHARINUM SILVER MAPLE BARE ROOT / TUBELING 60" IVE STAKE P5 2 BETULA PAPYRIFERA PAPER BIRCH // TUBELING 60" IVE STAKE PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT / TUBELING 85" IVE STROBUS EASTERN WHITE PINE BARE ROOT / TUBELING 60" IVE STAKE		250	SAMBUCUS CANADENSIS	AMERICAN ELDER	LIVE STAKE	12'	INSTALL 24" O.C. PER
250 SALIX HUMILIS PRAIRIE WILLOW LIVE STAKE B' INSTALL 24' O.C. PER IF OF COIR BLOCK 200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE B' INSTALL 24' O.C. PER IF OF COIR BLOCK 3ARE ROOT / TUBELINGS AR 35 ACER RUBRUM RED MAPLE BARE ROOT / TUBELING 60' AS 35 ACER SACCHARINUM SILVER MAPLE BARE ROOT / TUBELING 60' PD 52 BETULA PAPYRIFERA PAPER BIRCH BARE ROOT / TUBELING 60' PA 51 PLATANUS OCCIDENTALIS SYCAMORE BARE ROOT / TUBELING 90' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT / TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE BARE ROOT / TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 60' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSSUED FOR BID DRAWING NU L-03		200	SALIX INTERIOR	SANDBAR WILLOW	LIVE STAKE	10'	INSTALL 24" O.C. PER
200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 0 LF OF COIR BLOCK 3ARE ROOT / TUBELINGS AR 35 ACER RUBRUM RED MAPLE // TUBELING 60' AS 35 ACER RUBRUM RED MAPLE // TUBELING 60' BP 52 BETULA PAPYRIFERA PAPER BIRCH BARE ROOT // TUBELING 60' PA 51 PLATANUS OCCIDENTALIS SYCAMORE BARE ROOT // TUBELING 60' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD // TUBELING 80' 90' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT // TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT // TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT // TUBELING 50' CRANNULLE FOODMED MOD		250				<u></u> <u> </u>	INSTALL 24" O.C. PER
200 SALIX PURPUREA STREAMCO WILLOW LIVE STAKE 15'		230	SALIA HOMILIS		LIVE STARE	0	LF OF COIR BLOCK
BARE ROOT / TUBELINGS AR 35 ACER RUBRUM RED MAPLE BARE ROOT / TUBELING 60' AS 35 ACER SACCHARINUM SILVER MAPLE BARE ROOT / TUBELING 70' BP 52 BETULA PAPYRIFERA PAPER BIRCH BARE ROOT / TUBELING 60' PA 51 PLATANUS OCCIDENTALIS SYCAMORE BARE ROOT / TUBELING 90' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD / TUBELING BARE ROOT / TUBELING 60' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT / TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE / TUBELING 60'		200	SALIX PURPUREA	STREAMCO WILLOW		15'	LF OF COIR BLOCK
AR 35 ACER RUBRUM RED MAPLE BARE ROOT /TUBELING 60' AS 35 ACER SACCHARINUM SILVER MAPLE BARE ROOT /TUBELING 70' BP 52 BETULA PAPYRIFERA PAPER BIRCH BARE ROOT /TUBELING 60' PA 51 PLATANUS OCCIDENTALIS SYCAMORE BARE ROOT /TUBELING 90' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT /TUBELING 85' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT /TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE BARE ROOT /TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT /TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT /TUBELING 50' ISSSUED FOR BID DRAWING NU ISSSUED FOR BID	BARE	ROOT	TUBELINGS	1		1	1
AS 35 ACER SACCHARINUM SILVER MAPLE BARE ROOT / TUBELING 70' BP 52 BETULA PAPYRIFERA PAPER BIRCH BARE ROOT / TUBELING 60' PA 51 PLATANUS OCCIDENTALIS SYCAMORE BARE ROOT / TUBELING 90' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT / TUBELING 85' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT / TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSSUED FOR BID	AR	35	ACER RUBRUM	RED MAPLE	BARE ROOT	60'	
BP 52 BETULA PAPYRIFERA PAPER BIRCH BARE ROOT / TUBELING 60' PA 51 PLATANUS OCCIDENTALIS SYCAMORE BARE ROOT / TUBELING 90' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT / TUBELING 60' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT / TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSSUED FOR BID DRAWING NU L-03	AS	35	ACER SACCHARINUM	SILVER MAPLE	BARE ROOT	70'	
PA 51 PLATANUS OCCIDENTALIS SYCAMORE I UBELING BARE ROOT / TUBELING 90' PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD / TUBELING BARE ROOT / TUBELING 85' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT / TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE QUAKING ASPEN BARE ROOT / TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSSUED FOR BID	BP	52	BETULA PAPYRIFERA	PAPER BIRCH	BARE ROOT	60'	
M. O. PERMINES COORDENTIES OTOMINES (TUBELING) 50 PD 25 POPULUS DELTOIDES EASTERN COTTONWOOD BARE ROOT /TUBELING 60' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT /TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE BARE ROOT /TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT /TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT /TUBELING 50' ISSUED FOR BID DRAWING NU DRAWING NU L-03	Þ۸	51		SYCAMORE	BARE ROOT	90'	
PU 25 POPULUS DELTOIDES EASTERN COTTONWOOD /TUBELING 85' PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT /TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE BARE ROOT /TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT /TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT /TUBELING 50' ISSUED FOR BID DRAWING NU LOGANN/ULLE FOODMEED MODE					/ TUBELING	00	
PG 29 PICEA GLAUCA WHITE SPRUCE BARE ROOT / TUBELING 60' PS 45 PINUS STROBUS EASTERN WHITE PINE BARE ROOT / TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSUEDFOR BID PRESTORATION PLANTING PLAN DRAWING NU SHEET NUM	PD	25	POPULUS DELTOIDES	LASTERN COTTONWOOD	/ TUBELING	85'	
PS 45 PINUS STROBUS EASTERN WHITE PINE BARE ROOT / TUBELING 60' PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSUED FOR BID DRAWING NU RESTORATION PLANTING PLAN ODANNUL LE FORMER MOD	PG	29	PICEA GLAUCA	WHITE SPRUCE	/ TUBELING	60'	
PT 45 POPULUS TREMULOIDES QUAKING ASPEN BARE ROOT / TUBELING 50' QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT / TUBELING 50' ISSUED FOR BID DRAWING NU RESTORATION PLANTING PLAN SHEET NUM SHEET NUM	PS	45	PINUS STROBUS	EASTERN WHITE PINE	BARE ROOT	60'	
QB 23 QUERCUS BICOLOR SWAMP WHITE OAK BARE ROOT /TUBELING 50' ISSUED FOR BID DRAWING NU RESTORATION PLANTING PLAN SHEET NUM ODANY/// LE FORMED MOD	PT	45	POPULUS TREMULOIDES	QUAKING ASPEN	BARE ROOT	50'	
ISSUED FOR BID ISSUED FOR BID DRAWING NU L-03 SHEET NUM	∩₽	22			BARE ROOT	50'	
RESTORATION PLANTING PLAN L-03		20	ISSUF				
RESTORATION PLANTING PLAN			13306				DRAWING NU
			RESTORATI	ON PLANTIN	G PLA	N	L-03
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TORATION TYPE A	E
TORATION TYPE B	
IS TREES <u>Note</u>	
EN TREES 1. See Sheet L-03 for Planting Schedule.	
2. See Sheet L-04 for Seed Mix Limits.	F
3. See Sheet D-08 and D-09 for Details.	
	DRAWING NUMBER:
RESTORATION PLANTING PLAN	
GRANVILLE FORMER MGP	L-03
	L-03 SHEET NUMBER: 2 OF 2

4	5	Г — С	5		7
	SILT FENCE				
* * * BYPASS * * * * * * * * * * * * * * * * * *	LIMIT OF STOCKPILE				
19+96					AN TRACT
ALL DISTURBED BALL FIELD PLAYING					
SURFACES TO BE SODDED	ALL FIELDS AND				
REFER TO SPECS	AVVN SEED MIX,				
PLAND SEED MIX, REFER TO SPECS / E-CONSTRUCTED GRAVEL ROAD, RE	EFER TO	💥 N	ote		
ITE PLANS FOR DETAILS		1.	See Sheet D-08 ar Seeding and mulc	nd D-09 for Details. hing to occur immediat	tely after p
IMITS OF BANKFUL BENCH AREA, RE	EFER TO SITE PLANS FOR DETAILS	3.	Mulch soil if plantir	ngs occur outside of pl	anting sea
ATCHLINE +					
25_0_50	AEC	OM	NYS 69 NORTH GRANVILLE,	EG I STREET NEW YORK	
GRAPHIC SCALE IN FEET	AECOM 250 APOLLO DRIVE CHELMSFORD, MA 01824 www.aecom.com	PROJ. NUMBER: 60337	831	DATE: 04/14/2017	

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ISSUED FOR BID	
RESTORATION PLANTING PLAN	04
GRANVILLE FORMER MGP 2 REMEDIAL DESIGN REVIC	

			i i		ISS PLATFO	RM ¬			
				MAXIMU	M TOP OF ISS MASS	3-7		 I	·
		 	++				_ <u> </u>		
	BASE OF E	XCAVATION		BASE OF IN	IPACT/TOP OF CLAY	Y			 N
1+80	0 2+	-10 2-	+40 2+70) 3+00	3+30	+		3+90	4+20
			Sta	ation					
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 		_		LEVEE EXCAVATION GRADE	_	390			- FINA
	380 370	Elevation		BASE OF IMPACT/TO CLAY	P OF Evation	380			
2				BASE OF EXCAVATIC)N	360		//////////////////////////////////////	//////////////////////////////////////
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1+80	0 2+00			ISS BOUNDARY		0+00	0	+30 0-	+60
				ISS MASS					
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			AE	COM		69 N GRA	NYSE NORTH S NVILLE, NE	G STREET EW YORK	
		AECOM 250 APOLL CHELMSFO www.aecom	O DRIVE DRD, MA 01824 1.com	PR	ROJ. NUMBER: 60	337831	DA	TE: 04/14/2017	

	AECO	DM	NYS 69 NORTH GRANVILLE	SEG H STREET , NEW YORK
	AECOM 250 APOLLO DRIVE CHELMSFORD, MA 01824		PROJ. NUMBER: 60337831	DATE: 04/14/2017

STATION	A (FT)	B (FT)	C (FT)	D (FT)	BANK TIE IN ELEVATION 1 (FT)	BANK TIE IN ELEVATION 2 (FT)
7+64	18	18	18	95	376.3	377.3
13+50	19	19	19	63	376.6	376.6

RESTORATION DETAILS	DRAWING NUMBER:
	SHEET NUMBER:
GRANVILLE FORMER MGP	1 OF 1
REMEDIAL DESIGN	REVISION 0

	SEE SHEET D-07 FOR CONSTRUCTION DETAILS	
		A
	· · · · · · · ·	В
		C
	∕_	_
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ial grade	PLACE SMALL RIVER STONE FILL AS NECESSARY TO REACH FINAL GRADE.	E
	NO MINIMUM FILL THICKNESS REQUIRED WHEN PLACING NEW RIVERSTONE ON EXISTING RIVER BED. - EXISTING GRADE	
		F
	RESTORATION DETAILS	DRAWING NUMBER:

BOTTOM LEVEL A. BEFORE INSTALLATION, PLACE STONE REVETMENT AND BASE FOR BIOD-BLOCK. B. PLACE BLOCK UNIT ON LEVEL SURFACE, WITH FEMALE END OF THE UNIT ON THE DOWNSTREAM END. C. SECURE THE BOTTOM FABRIC WITH WOODEN STAKES PLACED ON 2' 5' (MIN) SPACING. D. PLACE A SIX INCH LIFTS OF BANK FILL BLENDED WITH SMALL RIVER STONE AND COMPACT TO 90% OF STANDARD PROCTOR. E. PLACE BANKFILL AND COMPACT TO 90% OF STANDARD PROCTOR SO THAT THE COMPACTED SURFACE IS LEVEL WITH THE TOP OF THE BIOD-BLOCK. BLEND SMALL RIVER STONE WITH BANK FILL FOR FIRST 8" OF BANKFILL ABOVE NORMAL **BOTTOM FABRIC** – WATER ELEVATION -PLACE 2" LIFT OF SMALL RIVER STONE BLENDED WITH BANK FILL BEFORE PLACEMENT OF BOTTOM BIOD-BLOCK. INTERMEDIATE LEVELS F. COVER THE FILL WITH THE TOP FABRIC, PLACE THE NEXT LEVEL BIOD-BLOCK, AND SECURE WITH STAKES. G. PLACE LIVE-STAKE PLANTINGS FOR BANK PLANTING TYPE A. H. PLACE BANK FILL AND COMPACT TO 90% OF STANDARD PROCTOR SO THAT THE COMPACTED SURFACE IS LEVEL WITH THE TOP OF NEXT LEVEL OF BIOD-BLOCK. I. CONTINUE PLACING LIFTS UNTIL THE TOP LEVEL IS REACHED. ROTATE TOP BIOBLOCK TO PLACE TOP FRONT CORNER AT BANKFULL **BENCH ELEVATION** – FINAL BIODBLOCK BANKFULL BENCH ELEVATION J. ROTATE FINAL BIODBLOCK SO THAT FRONT BOTTOM CORNER IS AT OFFSET PROVIDED IN THE STAKEOUT TABLE AND THE TOP FRONT CORNER IS AT THE ELEVATION FOR THE BANKFULL BENCH. K. PLACE BANK FILL TO TOPSOIL SUBGRADE AND COMPACT TO 90% OF STANDARD PROCTOR. L. PLACE TOPSOIL TO FINAL GRADE AND SEED. M. ROLL OUT TOP FABRIC AND SECURE. 🕂 BIÔD-BLOCK BANKFULL BENCH ELEVATION FINAL SOIL LIFT N. PLACE BANK FILL TO TOPSOIL SUBGRADE AND COMPACT TO 90% OF STANDARD PROCTOR. O. PLACE TOPSOIL TO FINAL GRADE AND SEED. P. ROLL OUT EROSION CONTROL BLANKET AND SECURE. Q. COMPLETE INSTALLATION OF PLANTINGS. 47" WOVEN COIR FABRIC ATTACHED TO COIR BLOCK -**BIOD-BLOCK** 24 BIOD-BLOCK BANK CONSTRUCTION SCALE: NTS JTS 04/14/17 ISSUED FOR BID O DRWN DATE REVISION CHKD DATE APPVD DATE

B. ALTERNATE 2' GRID ON ADJACENT VERTICAL LAYERS BY 1' OFFSET.

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DATE: 04/14/2017

NOTES:

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TOPSOIL SHALL BE 12" DEEP IN ALL AREAS WITHIN 25' OF METTAWEE RIVER AND/OR FULL WIDTH OF BANKFULL BENCH AREA, WHICHEVER IS GREATER. ALL OTHER AREAS SHALL RECEIVE 6" TOPSOIL DEPTH

4

SEEDED UPLAND MIX

-PREPARED TOPSOIL

6"or12"

- PREPARED SUBGRADE/EXCAVATION GRADE/REGRADED SOIL - LOOSEN AND SCARIFY PRIOR TO PLACEMENT OF TOPSOIL

UNDISTURBED OR COMPACTED SUBGRADE

NOTES:

PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO THE TRAFFIC FLOW UNLESS OTHERWISE NOTED

 $\frac{1}{2}$ " EXPANSION JOINT WITH PRE-MOULDED FILLER. RECESS FILLER ¹/₂". PROVIDE JOINTS AT 30' O.C. MAX. UNLESS OTHERWISE NOTED. PROVIDE EXPANSION JOINT WHERE PAVEMENT ABUTS STRUCTURES, VERTICAL SURFACES, AND AS NOTED. SEAL ALL EXPANSION JOINTS WITH APPROVED WATERPROOF SEALANT

TOOLED CONTROL JOINT $\frac{1}{4}$ TIMES THE DEPTH OF THE SLAB, WITH 2" WIDE SMOOTH STRIP ON EACH SIDE. LAYOUT AS INDICATED ON PLAN

CONCRETE PAVEMENT

6"X6", 1.4X1.4 WELDED WIRE MESH REINFORCING. 2" MINIMUM COVER

AGGREGATE BASE COURSE

COMPACTED SUBGRADE

- 12'-10" — '-8" | <u>|</u>∕ | <u> </u>⊠ \boxtimes - OUTDOOR PICNIC TABLE. ATTACH TO CONCRETE PAD AS RECOMMENDED BY MANUFACTURER CONCRETE PAD, TYP. CONCRETE FOOTING BELOW, TYP. ∕ ─⊠↔ PICNIC SHELTER POST 19'-4" TOOLED CONTROL JOINT, TYP. INSTALL ALONG BOTH CENTERLINES NOTES: 1. REFER TO MANUFACTURER FOR DETAILS ON POST SPACING AND ATTACHMENT METHOD TO FOOTING. 、⊠` $\overline{\neg}$ 2. REFER TO SPECIFICATIONS FOR DETAILS ON PICNIC SHELTER MATERIALS AND 1'-8" – SIZES. CONTRACTOR TO PROVIDE 3 SHOP DRAWINGS FOR **REVIEW PRIOR TO** FABRICATION OF SHELTER. 4. REFER TO SPECIFICATIONS FOR DETAILS ON PICNIC TABLES. 36 PICNIC SHELTER- 12x20' -/ SCALE: NTS

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NYSEG **69 NORTH STREET** GRANVILLE, NEW YORK

PROJ. NUMBER: 60337831

DATE: 04/14/2017

AWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER. AWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER. EXCAVATION DEPTHS FOR THE BYPASS CHANNEL CONSTRUCTION AND RESTORATION SHALL NOT CEED THE PROPOSED GRADES WITHOUT FIRST NOTIFYING THE ENGINEER. THE STONE BUTTRESS WEDGE MUST BE KEPT IN PLACE AND AT ALL TIMES FOR BOTH THE INSTRUCTION AND RESTORATION COFFERDAM PHASES. SEE DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE SHEETING LAYOUT.					
ISSUED FOR BID					
	DRAWING NUME	3ER:			
SHOKING DESIGN DETAILS	D-10				
	SHEET NUMBE	R:			
GRANVILLE FORMER MGP	1 OF 2				
REMEDIAL DESIGN	REVISION	0			

SHEET PILE/SHEE

		_
		В
		-
TEEL PIPE T	O SHEET PILE, TWO EACH PAIR (TYP.)	С
1 1/2" DIA	A. HIGH STRENGTH (75 ksi) STEEL TOE PIN, TWO EACH PAIR	
	- NOTCH DRIVING TIP FOR PIN INSTALLATION (TYP.)	-
• •		
		D
T PILE WE	LD	
	STEEL SHEET PILE DRIVEN TO REFUSAL AT TOP OF ROCK (TYP.)	
	_ WELD 3" (MIN.) STEEL PIPE TO SHEET PILE, ONE EACH TOE PIN (TYP.)	_
	1 1/2" DIA. HIGH STRENGTH (75 ksi) STEEL TOE PIN GROUTED INTO 3" DIA. DRILLED HOLE	
	TOP OF ROCK	E
-3" DIA. DR	ILLED HOLE	
N DETAIL		-
44	TOEPIN DETAILS SCALE: NTS	F
	ISSUED FOR BID	
		DRAWING NUMBER:
	SHORING DESIGN DETAILS	D-11
+	GRANVILLE FORMER MGP	SHEET NUMBER:
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