R.G. JONES ELEMENTARY PARKING LOT ADDITION CLEVELAND, OH

BENCHMARKS

- \bullet **BENCHMARK** 1 IRON PIN SET, ORANGE CAP WITH BLACK TRIANGLE. LOCATED EST OF SEE PLAN FOR EXACT LOCATIONS ENTRANCE APRON AT VIOLET AVE. ELEV: 789.12 N: 10000.0000' E: 10000.0000' ELEV: 790.000'
- 🕀 <u>CP 1</u> MONUMENT BOX WEST 154TH STREET N: 9988.6620
- E: 9596.4180
- BENCHMARK 2 EXISTING BUILDING FINISH FLOOR
- <u>CP 2</u> MONUMENT BOX INTERSECTION OF VIOLET AVENUE AND INTERSECTION OF VIOLET AVENUE AND WEST 150TH STREET N: 10059.7590' E: 10269.0500'

STANDARD ODOT DETAILS

STANDARD DRAWING NUMBER CB-1.2

ITEM DESCRIPTION CATCH BASIN 2-3



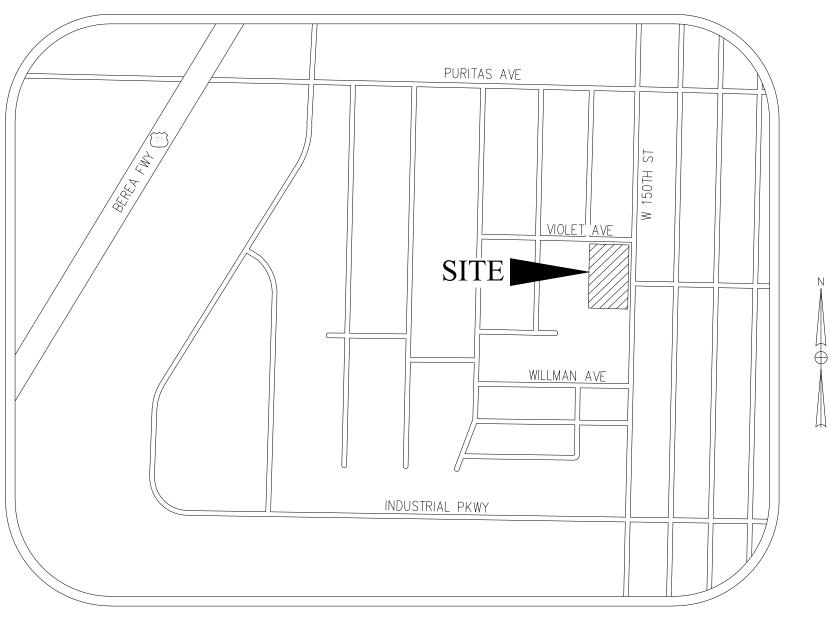
2 WORKING DAYS BEFORE YOU DIG



CALL TOLL FREE 800-362-2764 OHIO UTILITIES PROTECTION SERVICE NON MEMBERS MUST BE CALLED DIRECTLY OHIO OIL & GAS PRODUCERS: 800-925-0988

<u>PREPARED FOR</u> CLEVELAND METROPOLITAN SCHOOL DISTRICT 3840 RIDGE ROAD CLEVELAND, OH 44144

4550 W 150TH STREET, CITY OF CLEVELAND, COUNTY OF CUYAHOGA, AND STATE OF OHIO



VICINITY MAP NOT TO SCALE

INDEX OF SHEETS

TITLE SHEET	1
EXISTING CONDITIONS.	2
DEMOLITION PLAN	
SITE LAYOUT PLAN.	
SITE LOCATION PLAN	4A
SITE UTILITY PLAN	
SITE GRADING PLAN	6
STORM WATER POLLUTION PREVENTION PLAN	7
SWPPP NOTES & DETAILS	8–9
GENERAL NOTES & DETAILS.	
PHOTOMETRIC PLAN	
LANDSCAPE PLAN	14
LANDSCAPE NOTES AND DETAILS	

APPROVALS

SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE DESIGN ENGINEER PREPARING THE PLANS.

PLAN SET APPROVED BY:

CITY OF CLEVELAND ENGINEERING DEPARTMENT

DATE

UTILITY CONTACTS

<u>SEWERS (COMBINED MAIN IN R/W)</u> NEORSD 3900 EUCLID AVE CLEVELAND, OHIO 441415 PHONE: 216-881-6600

STORM SEWERS (LATERALS) CLEVELAND WATER POLLUTION CONTROL 12302 KIRBY AVE CLEVELAND. OHIO 44108 PHONE: 216-664-2750

WATER SERVICE CLEVELAND WATER DEPARTMENT 1201 LAKESIDE AVE E CLEVELAND, OHIO 44114 PHONE: 216-664-2444

PROJECT CONTACTS

<u>owner</u> CLEVELAND METROPOLITAN SCHOOL DISTRICT 3840 RIDGE ROAD CLEVELAND, OHIO 44114 CONTACT: JIM COZZA PHONE: 216-785-4676

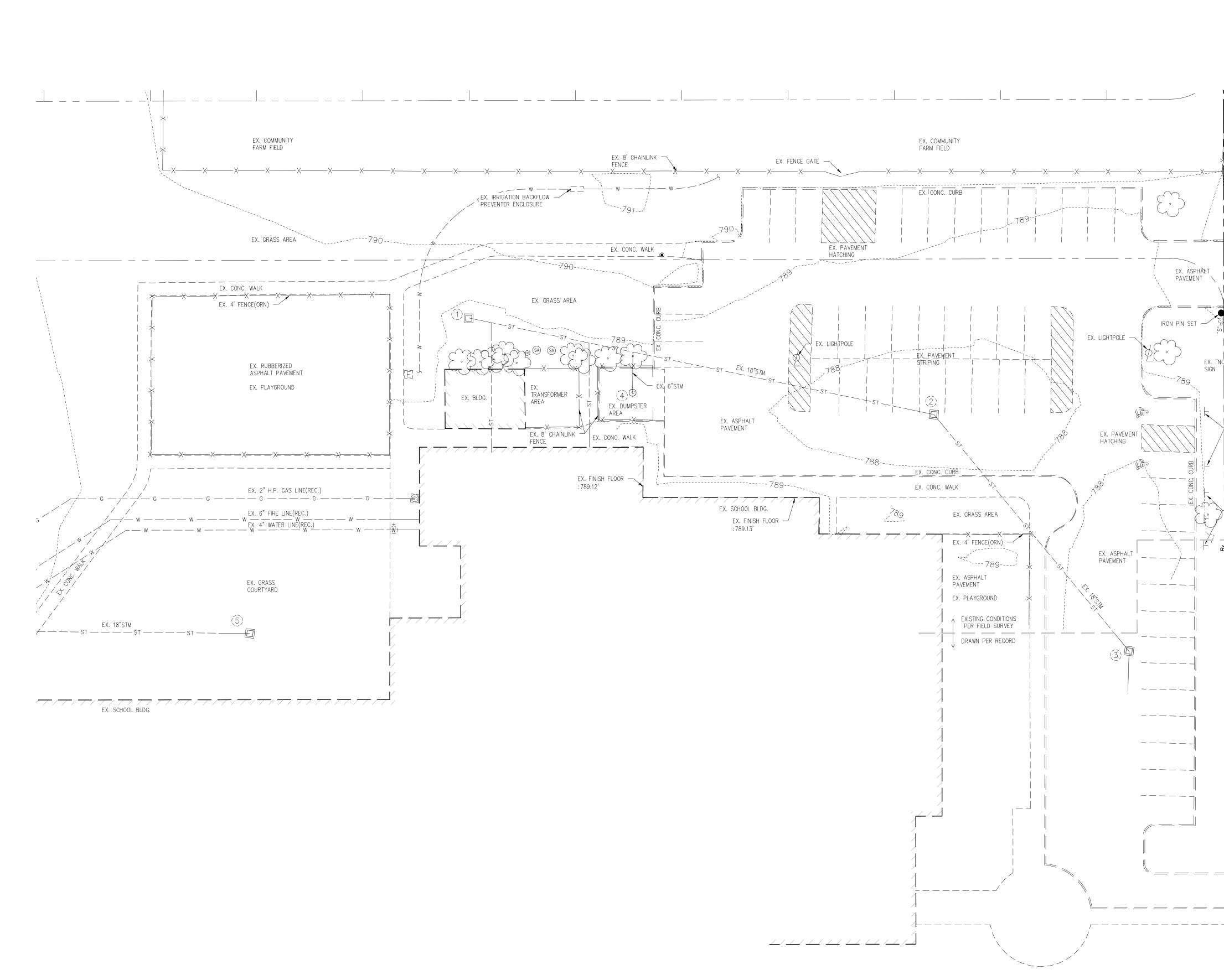
<u>CIVIL ENGINEER</u> THE MANNIK & SMITH GROUP, INC. 23225 MERCANTILE ROAD BEACHWOOD, OH 44122 CONTACT: JONATHAN ZIVODER PHONE: 216-378-1490

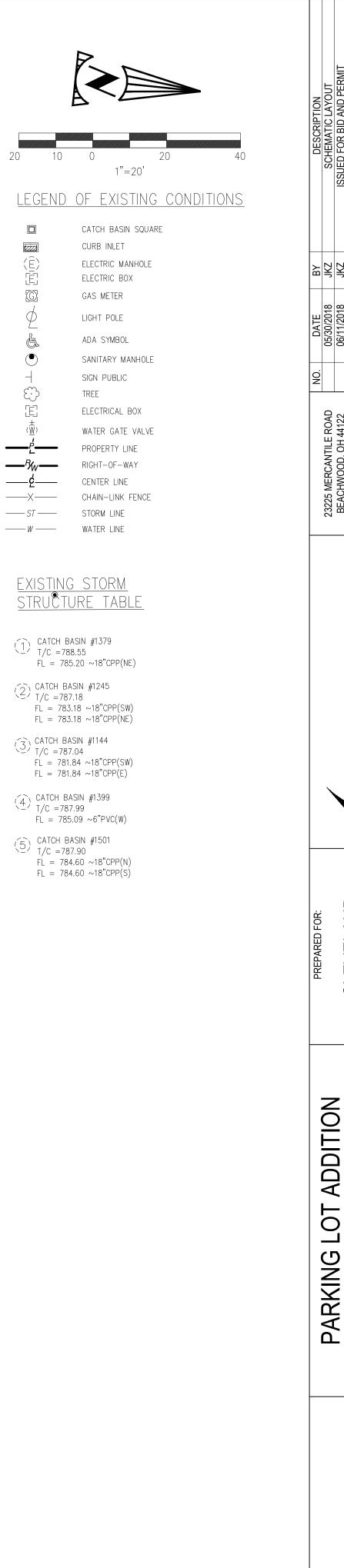
<u>Gas company</u> DOMINION ENERGY OHIO 1201 E 55TH CLEVELAND, OHIO 44103 PHONE: 800-362-7557

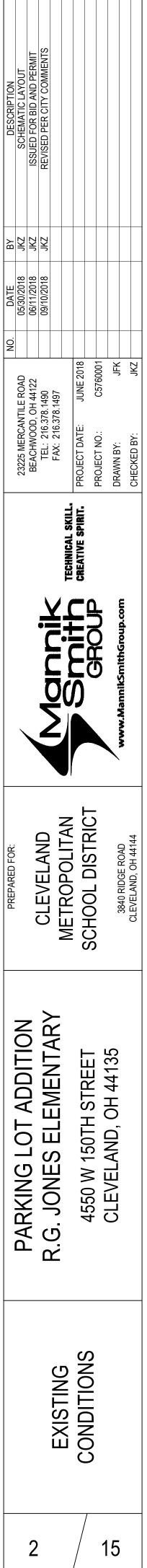
<u>ELECTRIC COMPANY</u> FIRST ENERGY - THE ILLUMINATING CO. 76 SOUTH MAIN ST. AKRON, OH 44308 PHONE: 440-546-8737

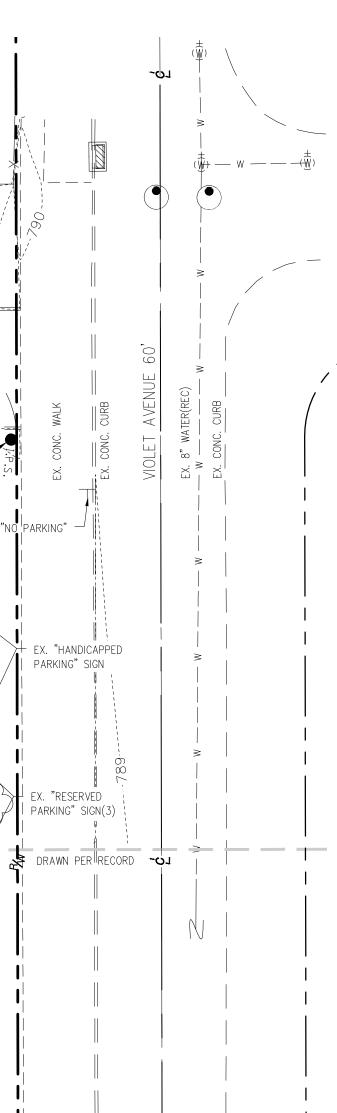
		REVISED PER CITY COMMENTS					
DATE 05/30/2018	05/30/2018 JKZ						
232356 MEDCANTILE DOAD	23225 MERCAN ILE RUAD REACHWOOD OH 11122	TEL: 216.378.1490	FAX: 216.378.1497	PROJECT DATE: JUNE 2018	PROJECT NO.: C5760001	DRAWN BY: JFK	CHECKED BY: JKZ
						16rour	
		Acodi			DOHO LOCHO	v.MannikSmithGroun	
PARED FOR:			TAN			RIDGE ROAD	
PREPARED FOR:		CLEVELAND	METROPOLITAN			3840 RIDGE ROAD	44
		CLEVELAND CLEVELAND	METROPOLITAN				

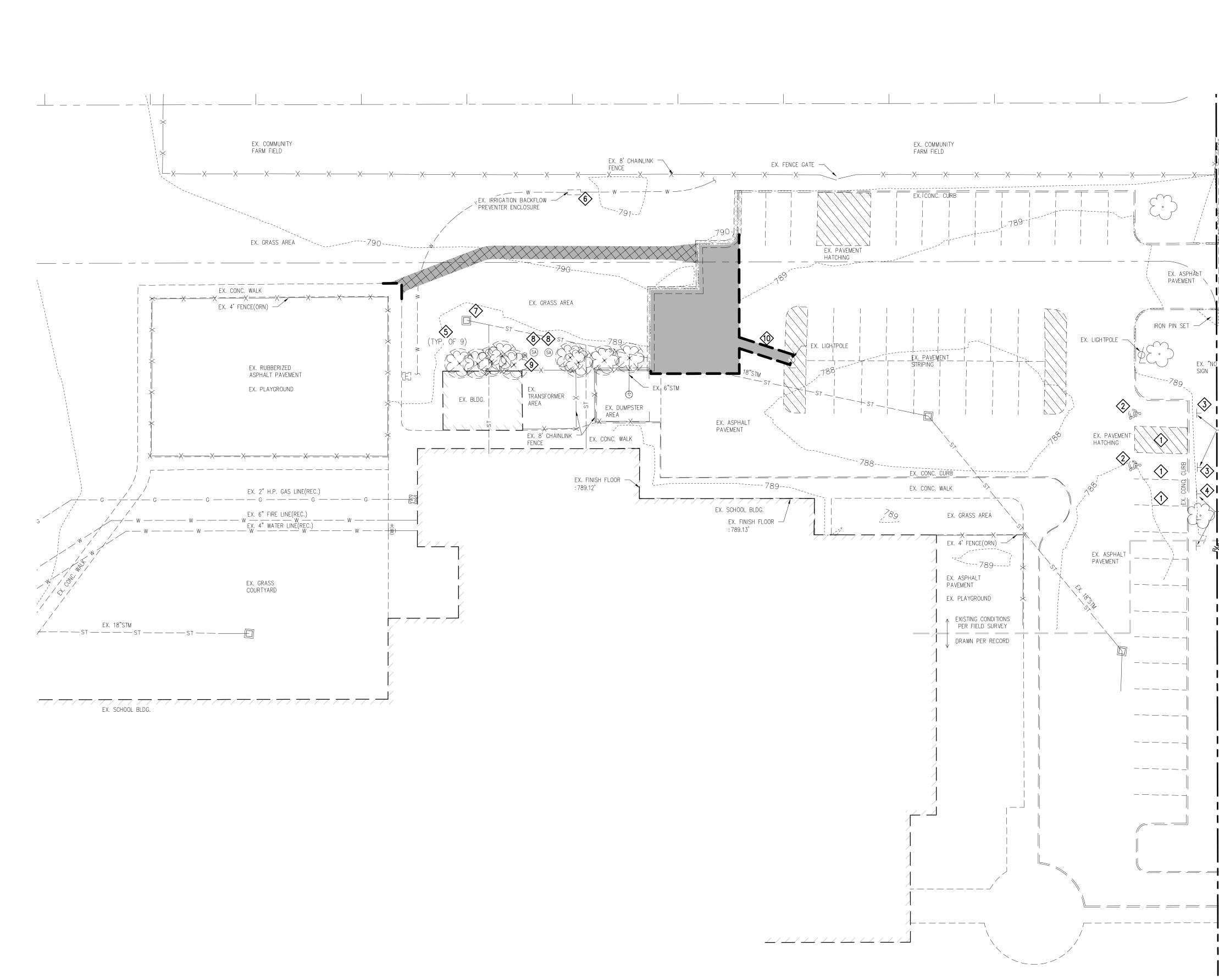
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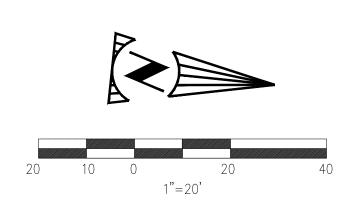




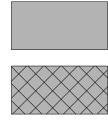








DEMOLITION LEGEND



CONCRETE WALK REMOVAL.

ASPHALT PAVEMENT REMOVAL

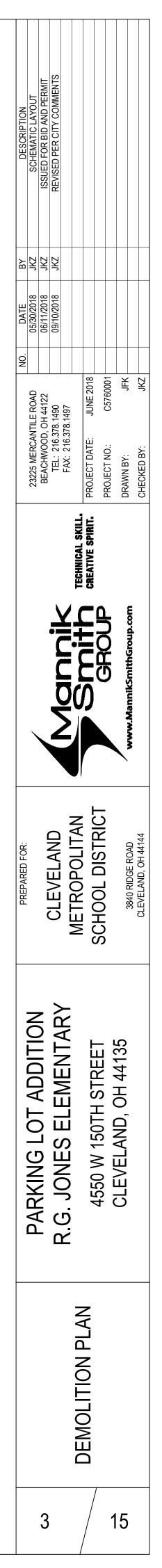
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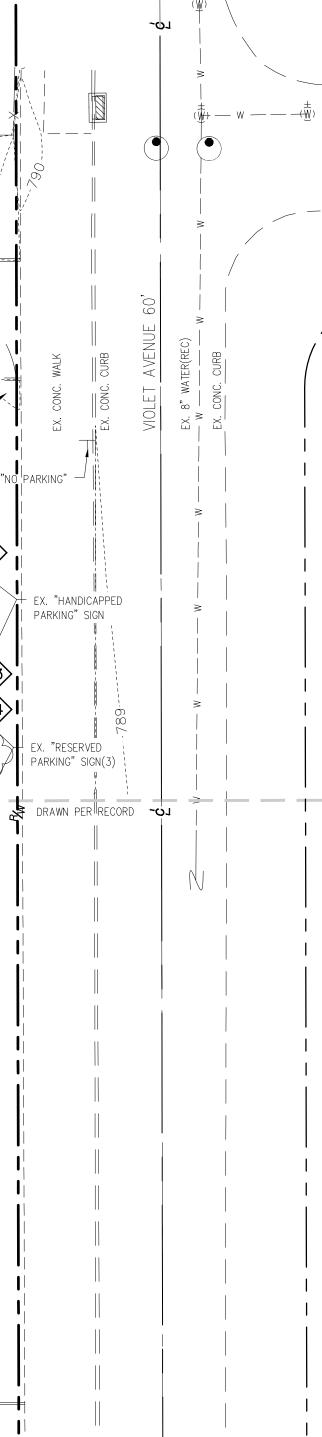
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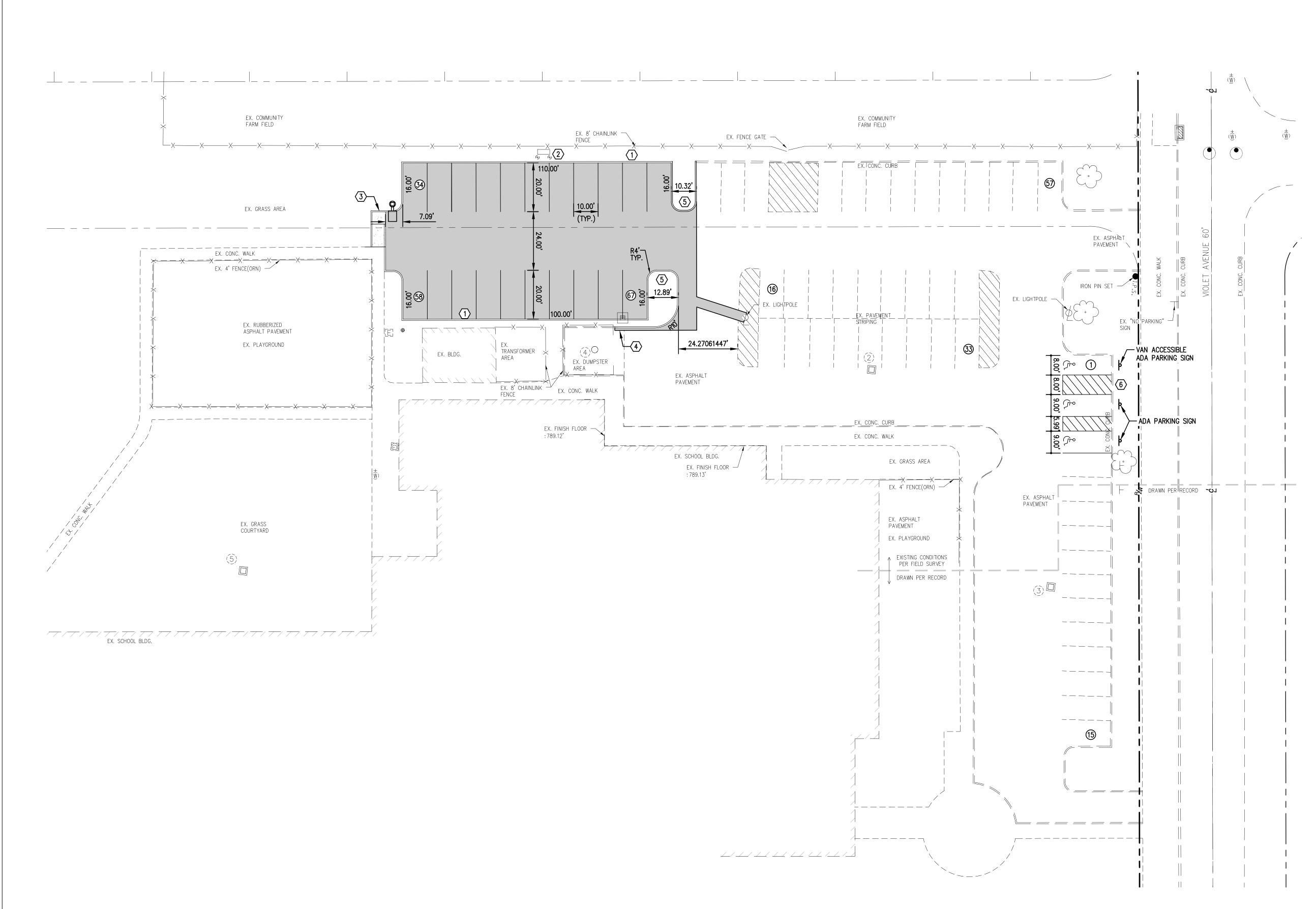
CONCRETE CURB REMOVAL TREE REMOVAL DEMOLITION CODED NOTE

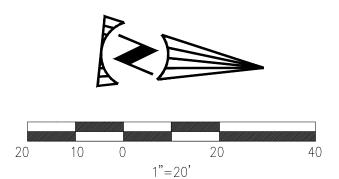
DEMOLITION CODED NOTES:

- PAVEMENT MARKINGS TO BE BLACKED OUT TO ALLOW FOR NEW STRIPING PER THE SITE LAYOUT PLAN
- PAINTED HANDICAP SYMBOL TO BE BLACKED OUT TO ALLOW FOR NEW SYMBOL PER THE SITE LAYOUT PLAN
- EXISTING HANDICAP PARKING SIGN TO BE REMOVED AND RELOCATED PER THE SITE LAYOUT PLAN.
- EXISTING RESERVED PARKING SIGN TO BE REMOVED.
- TREES TO BE REMOVED, ALL STUMPS TO BE GRINDED DOWN 18" BELOW GRADE AS NECESSARY.
- EXISTING IRRIGATION SERVICE LINE AND BACKFLOW PREVENTER TO BE RELOCATED PER THE SITE LAYOUT AND SITE UTILITY PLANS.
- EXISTING CATCH BASIN TO REMAIN AND BE RE-USED FOR THE PROPOSED PARKING LOT. INLET CASTING SHALL BE SALVAGED AND ADJUSTED TO FINISH GRADE.
- EXISTING GREASE TRAP MANHOLES TO REMAIN. CASTINGS TO BE ADJUSTED TO FINISHED GRADE PER THE GRADING PLAN.
- EXISTING CLEAN OUT TO REMAIN. CLEAN OUT CAP TO BE ADJUSTED TO FINISHED GRADE PER THE GRADING PLAN.
- SAWCUT AND REMOVE ASPHALT PAVEMENT TO ACCOMMODATE ELECTRICAL SERVICE CONNECTION TO PROPOSED SITE LIGHT.





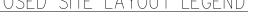


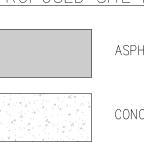


PROPOSED SITE LAYOUT LEGEND

SIGN







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DISTURBED AREA

<u>SITE DATA TABLE</u>

EXISTING PARKING ADA

EXISTING PARKING TOTAL 49

PROPOSED PARKING TOTAL 67

PROPOSED PARKING ADA 3

2

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ASPHALT PAVEMENT PER DETAIL

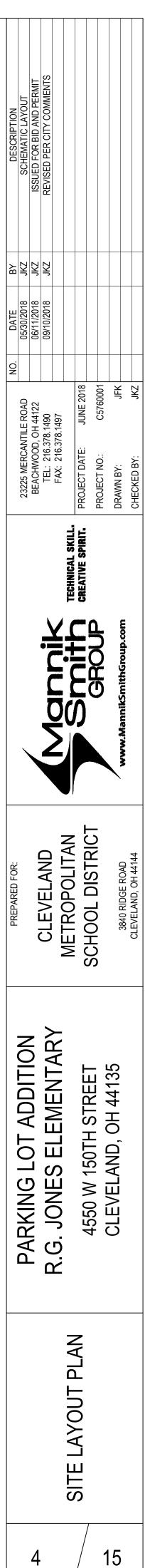
CONCRETE SIDEWALK PER DETAIL POLE MOUNTED SITE LIGHT HANDI-CAP PARKING SYMBOL PARKING SPACE COUNT SITE LAYOUT CODED NOTE 11,540 SF NET IMPERVIOUS ADDITION 6,006 SF

SITE LAYOUT CODED NOTES:

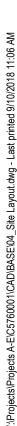
- 6" VERTICAL CURB PER DETAIL. UNDER DRAIN TO BE PROVIDED ALONG FULL LENGTH OF EAST CURB.
- (2) BOLLARDS PER DETAIL. CENTER BÓLLARDS WITH CORNERS OF ENCLOSURE, PROVIDE 12" OF CLEARANCE BETWEEN FACE OF BOLLARD AND ENCLOSURE.
- 3 PEDESTRIAN WALK RAMP PER DETAIL. SEE GRADING PLAN FOR ELEVATIONS.
- CONCRETE PAVEMENT REPAIR AS NEEDED FOR INSTALLATION OF CURB.
- 5 DISTURBED AREAS NOT BEING PAVED TO BE RE-SEEDED WITH GRASS. PARKING LOT ISLAND TO BE SEEDED WITH GRASS.
- 6 ADA PARKING STALL STRIPING AND SIGNAGE PER DETAIL.

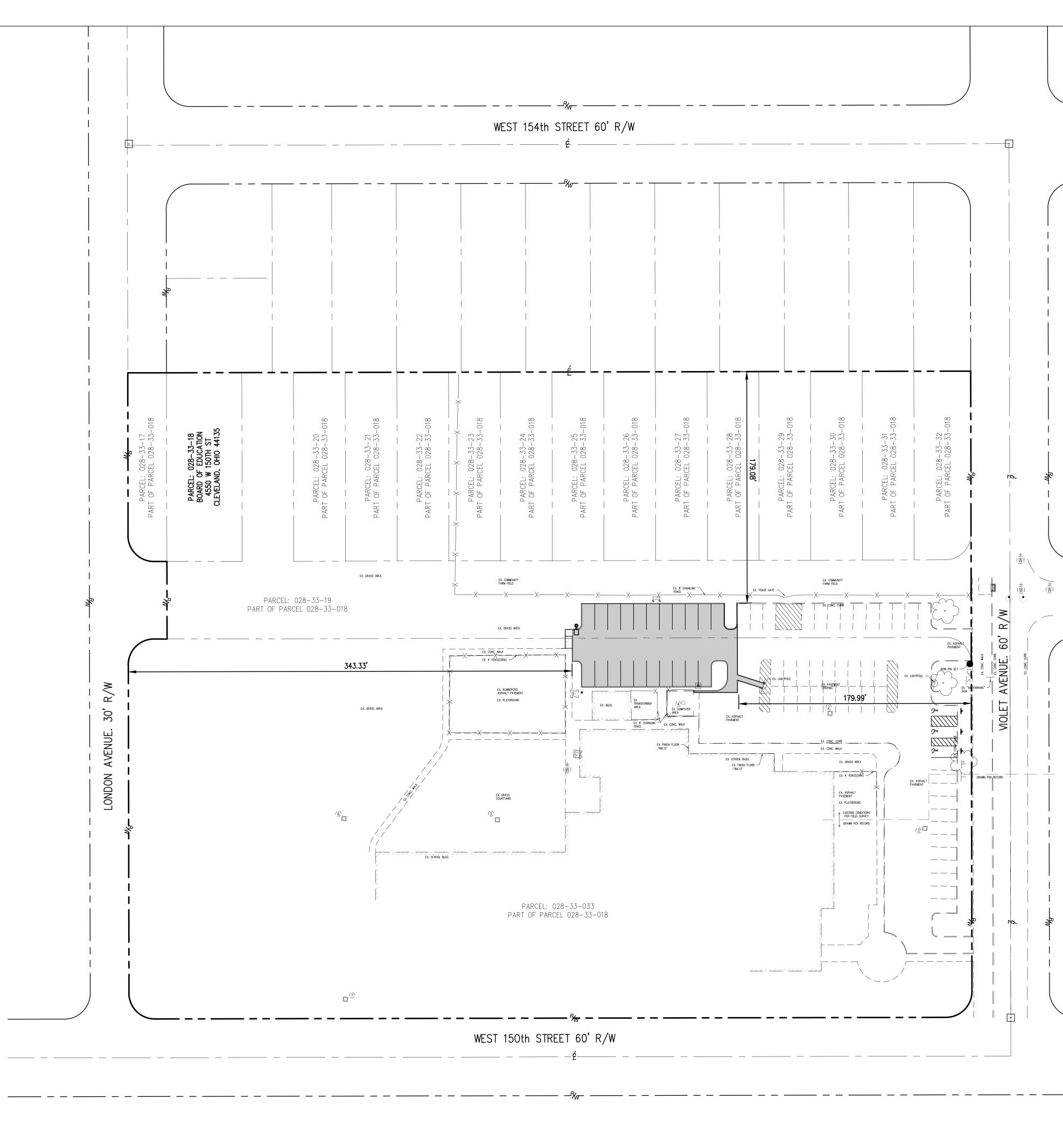
LAYOUT GENERAL NOTES:

1. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE UNLESS OTHERWISE NOTED.



4

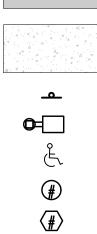




DESCRIPTION SCHEMATIC LAYOUT ISSUED FOR BID AND PERMIT DEVISED DED CITY COMMENTS			
NO. DATE BY 05/30/2018 JKZ 06/11/2018 JKZ 004/0/2018 JKZ			
23225 MERCANTILE ROAD BEACHWOOD, OH 44122 TEI - 216 378 1400	FAX: 216.378.14	PROJECT NO.: C5760001	DRAWN BY: JFK CHECKED BY: JKZ
		GROUP	www.MannikSmithGroup.com
PREPARED FOR:	METROPOLITAN	SCHOOL DISTRICT	3840 RIDGE ROAD CLEVELAND, OH 44144
	R.G. JONES ELEMEN I ARY	4550 W 150TH STREET	CLEVELAND, OH 44135
	SITE LOCATION PLAN		

EXISTING PARKING ADA PROPOSED PARKING TOTAL PROPOSED PARKING ADA

-	
-	
	11,540 SF
١	6,006 SF
	49
	2
L	67
	3



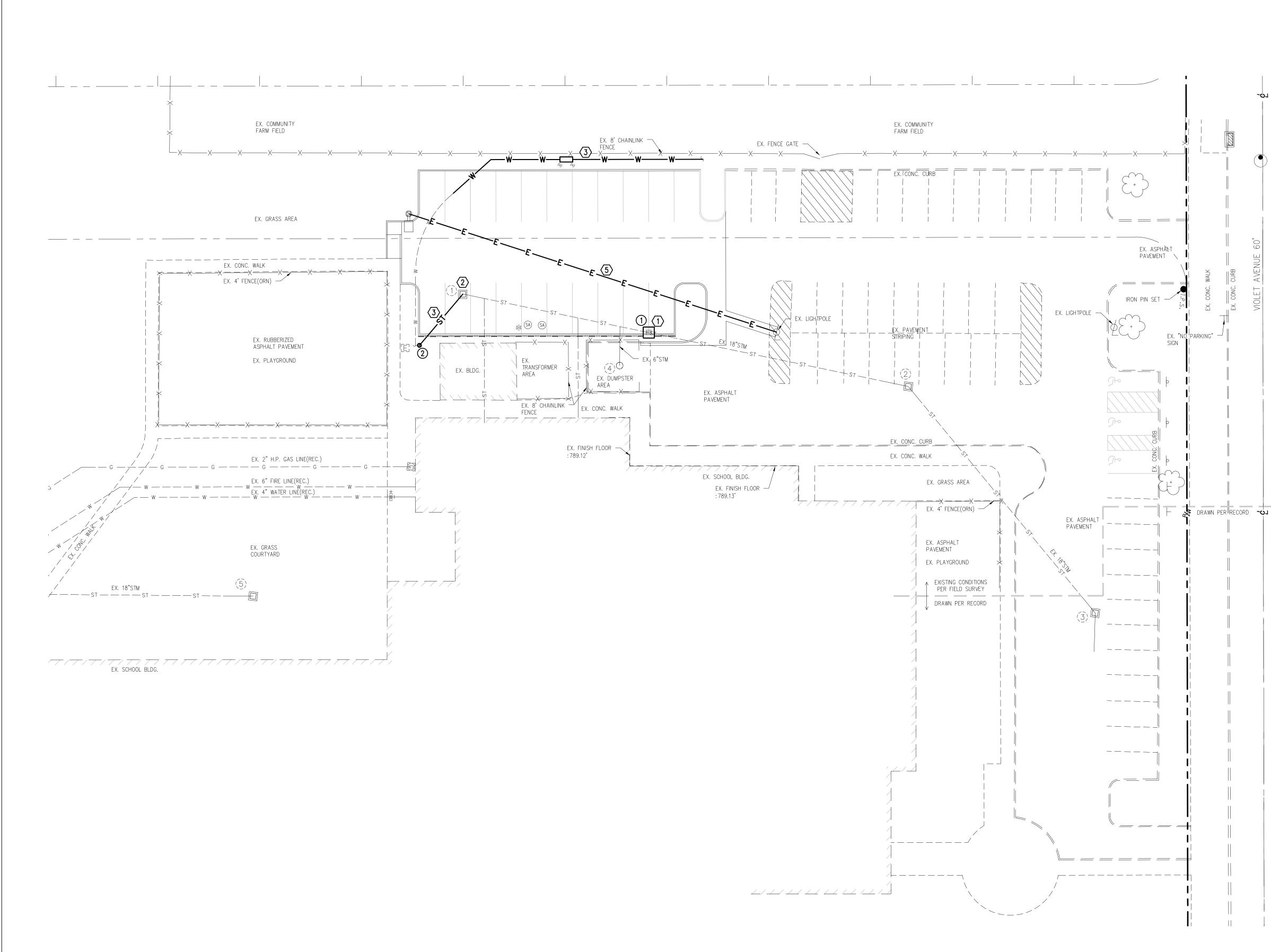
SIGN POLE MOUNTED SITE LIGHT HANDI-CAP PARKING SYMBOL PARKING SPACE COUNT SITE LAYOUT CODED NOTE

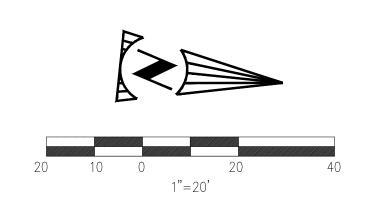
ASPHALT PAVEMENT PER DETAIL

CONCRETE SIDEWALK PER DETAIL



<u>proposed site layout legend</u>





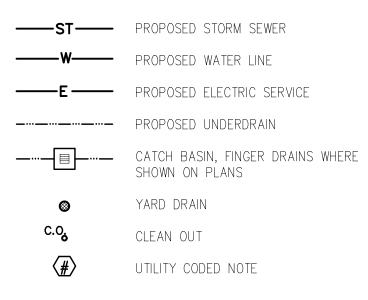
PROPOSED<u>UTILITIES LEGEND</u>

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IV.



<u>EXISTING STORM</u> STRUCTURE TABLE

- (1) CATCH BASIN #1379 7/C = 788.55 **788.00** FL = 785.20 ~18"CPP(NE) FL = 786.00 ~ 8" SE (2) CATCH BASIN #1245 T/C =787.18 FL = 783.18 ~18"CPP(SW) FL = 783.18 ~18"CPP(NE)
- (3) CATCH BASIN #1144 T/C =787.04 FL = 781.84 ~18"CPP(SW) FL = 781.84 ~18"CPP(E)
- (4) CATCH BASIN #1399 T/C =787.99 FL = 785.09 ~6"PVC(W)
- (5) CATCH BASIN #1501 T/C =787.90 , FL = 784.60 ~18"CPP(N) FL = 784.60 ~18"CPP(S)

UTILITY CODED NOTES:

PROPOSED STORM STRUCTURE TABLE

① CB ODOT 2-3 N: 9792.75

2 YARD DRAIN

E: 10038.61

RIM 788.14

N: 9703.68

E: 10052.91

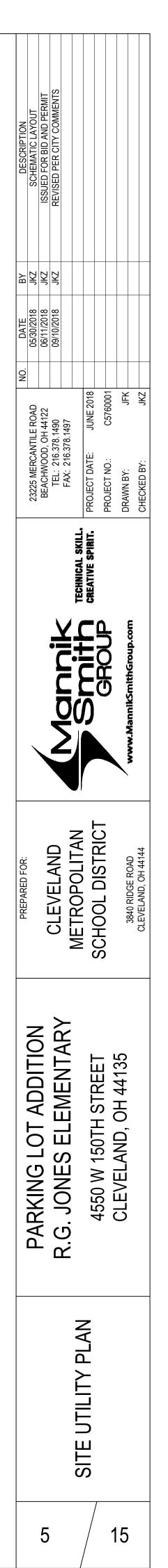
RIM 788.50

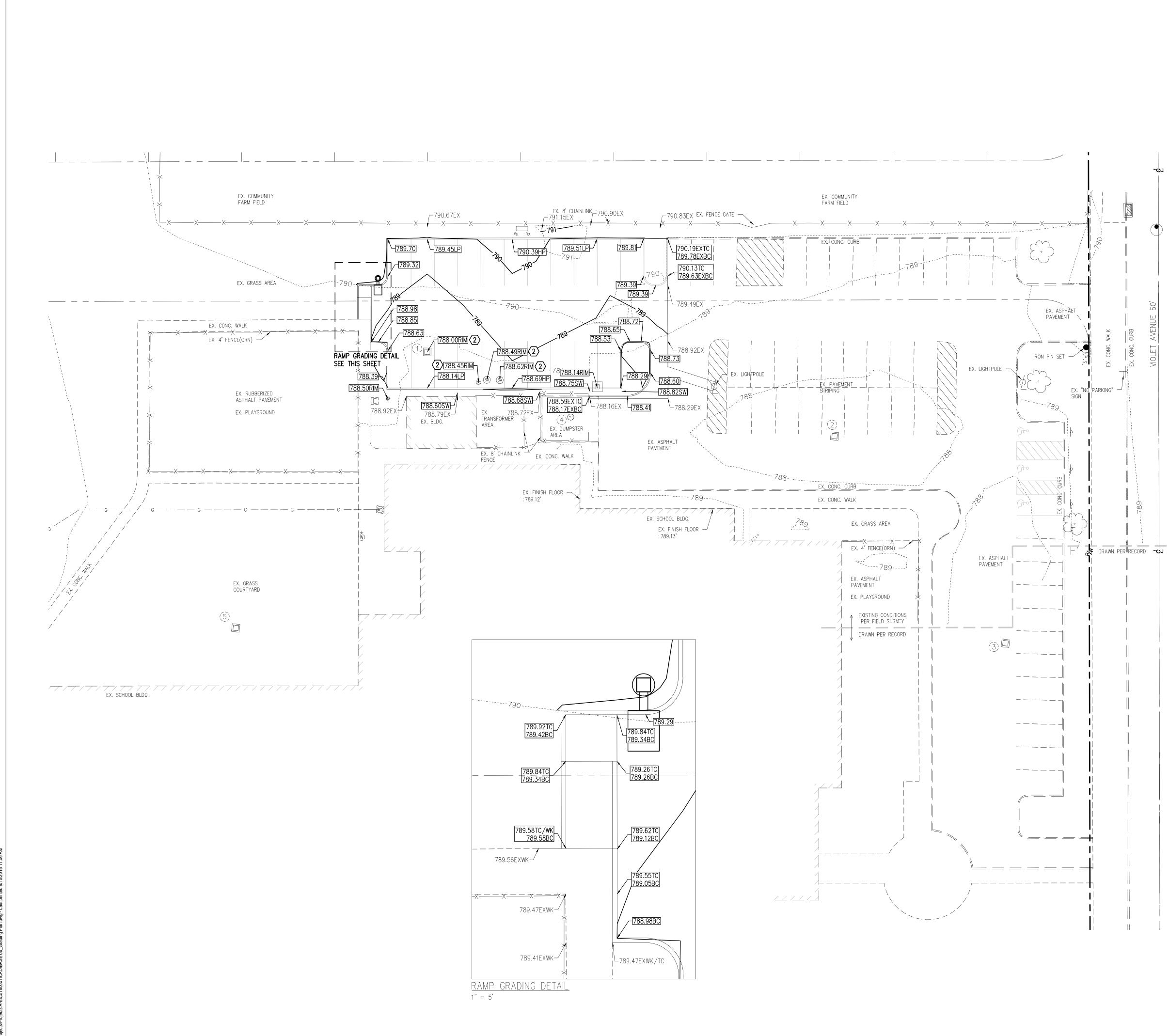
FL 784.36 ~ 18" NE

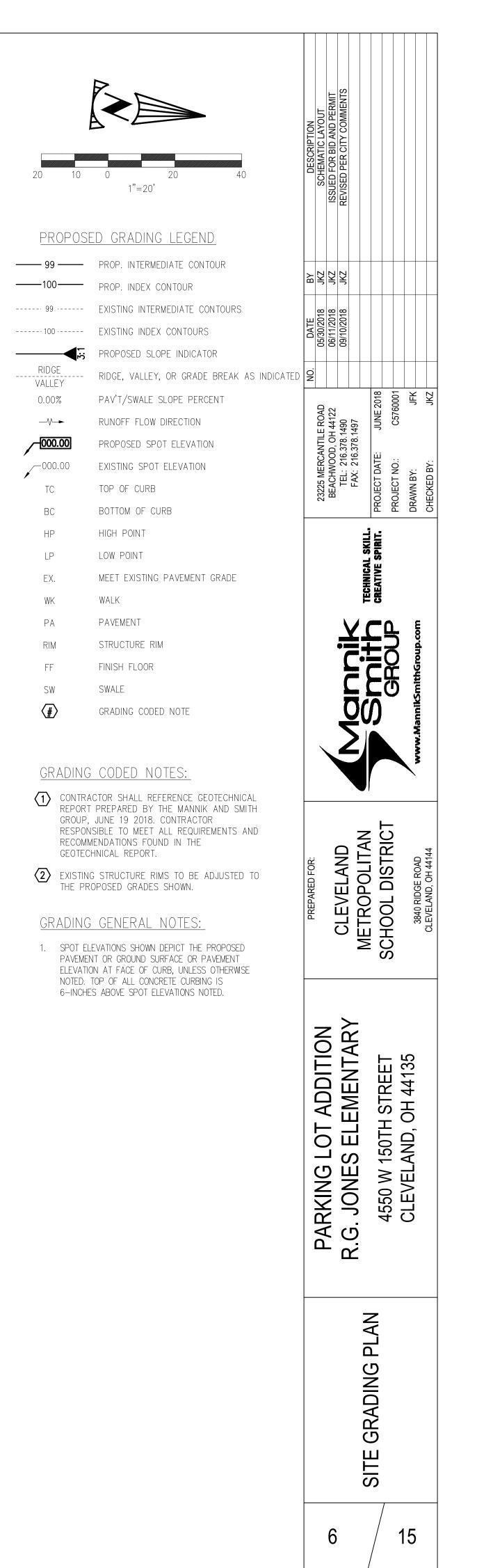
FL 784.36 ~ 18"SW

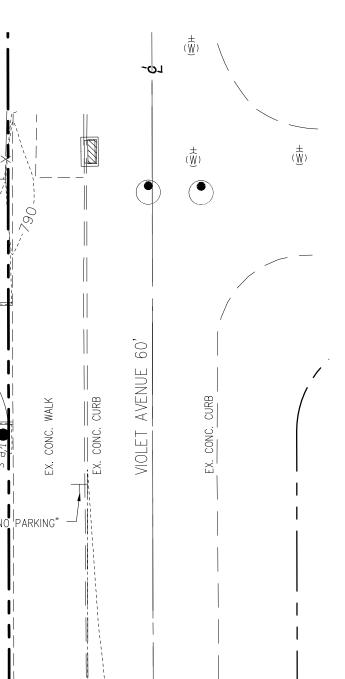
FL 786.53 ~ 8"NW

- PROPOSED CATCH BASIN TO BE PLACED INLINE WITH EXISTING STORM SEWER LINE, AND ALIGNED WITH PROPOSED CURB. EXISTING STORM TO BE CUT AND RECONNECTED TO PROPOSED STRUCTURE. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF STORM SEWER PRIOR TO INSTALLATION.
- CORE EXISTING CATCH BASIN FOR NEW 8" YARD DRAIN CONNECTION.
- 3 relocate existing irrigation backflow PREVENTER ENCLOSURE 3' FROM THE BACK OF THE PROPOSED CURB TO THE FACE OF THE ENCLOSURE. RE-ROUTE EXISTING WATER LINE TO NEW ENCLOSURE LOCATION AND TO ALLOW FOR INSTALLATION OF PROPOSED CURB. PIPE MATERIAL SHALL BE REPLACED LIKE IN KIND. COORDINATE WATER SERVICE SHUT DOWN WITH OWNER.
- $\langle \mathbf{4} \rangle$ 27 LF proposed 8" storm line at 2.00%.
- 5 PROVIDE ELECTRIC SERVICE TO PROPOSED SITE LIGHT BY UTILIZING EXISTING UNDERGROUND SITE LIGHTING ELECTRIC SERVICE LINES. CONTRACTOR TO VERIFY EXISTING ELECTRIC SOURCE IS OF ADEQUATE CAPACITY TO SERVE THE PROPOSED ADDITIONAL SITE LIGHT.

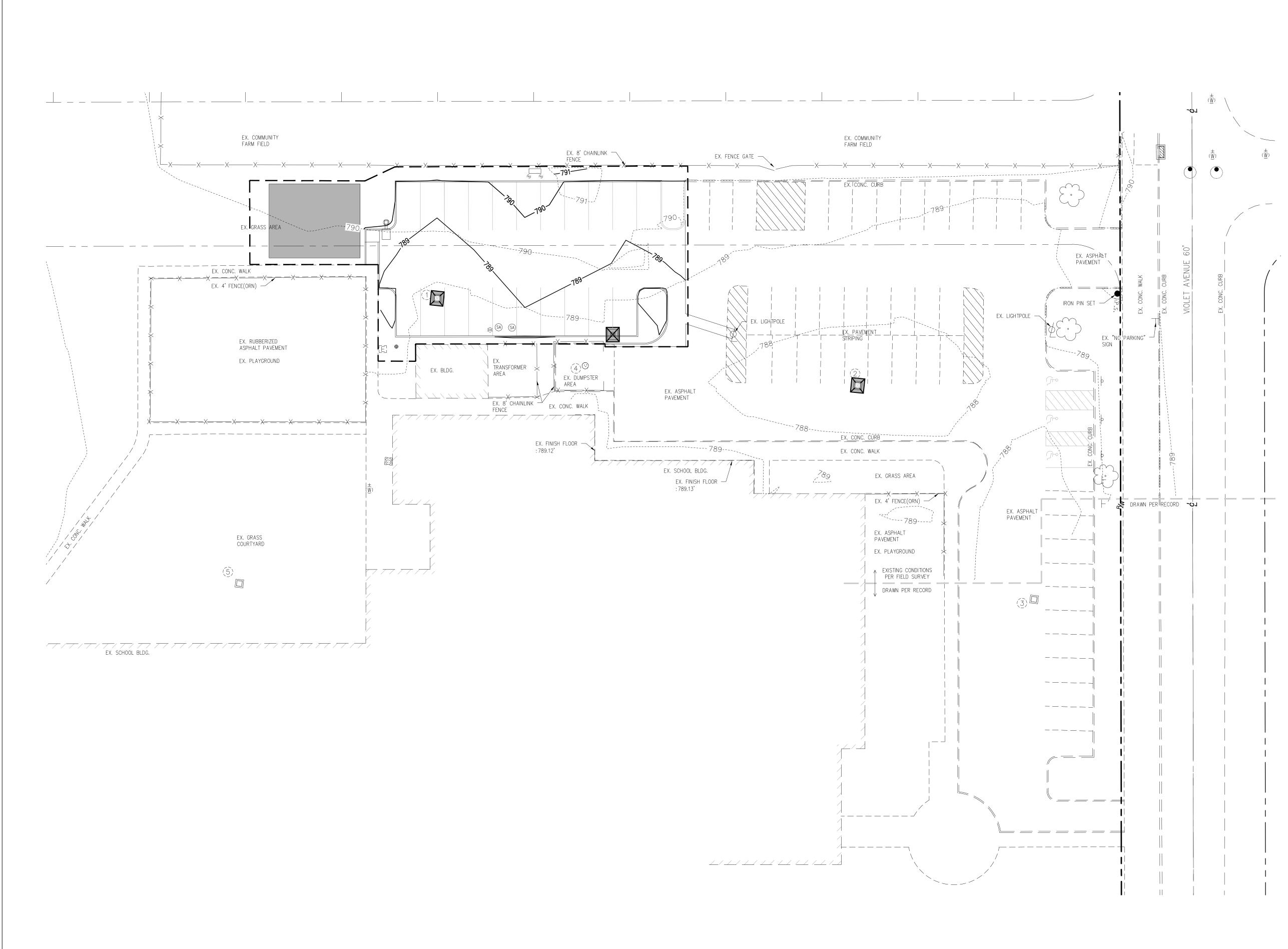




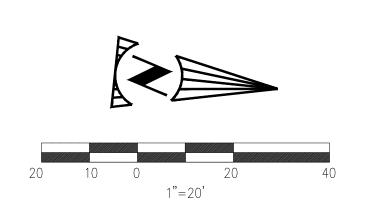




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<u>SWPPP ELEMENTS LEGEND</u>



GEOTEXTILE INLET PROTECTION. DANDY BAG DROP INLET PROTECTION (OR APPROVED EQUAL) OR FILTER SOCK BARRIER MAY BE USED IN PAVED AREAS.

TEMPORARY STAGING AREA FOR FUELING, EQUIPMENT, AND DISPOSAL/STORAGE OF SOLID/SANITARY TOXIC WASTES

---- DISTURBED AREA LIMITS

DESCRIPTION SCHEMATIC LAYOUT	ISSUED FOR BID AND PERMIT	REVISED PER CITY COMMENTS								
JKZ										
NO. DATE 05/30/2018	06/11/2018	09/10/2018								
23225 MERCANTILE ROAD	BEACHWOOD, OH 44122	TEL: 216.378.1490	FAX: 216.378.1497		PROJECT DATE: JUNE 2018		PRUJECI NU.: C5/60001	DRAWN BY: JFK		CHECKED BY: JKZ
					CITIE CREATIVE SPIRIT.				www.mannikSmitneroup.com	
PREPARED FOR:		CLEVELAND					1			CLEVELAND, OH 44144
	Ċ	_ี บี		2		N N				
								CLEVELAND, OH 44135		

	DIMENT AND EROSION CONT		EQUIP
	CONTRACTOR SHALL MAINTAIN A LOG DOCUMENT AS WELL AS AMENDMENTS TO THE STORM WA CONSTRUCTION ACTIVITIES COMMENCE.	TING GRADING AND STABILIZATION ACTIVITIES	28. LOC THE THE GRA IS R
	MINIMIZE TRACKING OF SEDIMENTS BY VEHICLES AS THE ONLY ENTRANCE FOR VEHICLES. MAINTAI PREVENT DIRT AND MUD FROM TRACKING ONTO ROADWAY MAY BE NECESSARY TO ENSURE ROADW	N THIS ENTRANCE WITH STONE AS NEEDED TO THE ROADWAY. REGULAR SWEEPING OF THE	LES 29. A SI
	THE OWNER OF RECORD MUST PROVIDE REGULAR I EROSION AND SEDIMENT CONTROL PRACTICES. PE INSPECTIONS MUST BE KEPT THROUGHOUT THE MADE A MINIMUM OF ONCE EVERY SEVEN (7) DA GREATER THAN 0.5 INCHES OF RAIN WITHIN A DESIGNATED INSPECTOR, MAJOR OBSERVATIONS	RMANENT RECORDS OF ALL MAINTENANCE AND CONSTRUCTION PERIOD. INSPECTION MUST BE AYS AND IMMEDIATELY AFTER STORM EVENTS A 24-HOUR PERIOD. THE NAME OF OWNER'S	SITE ABO GAL <u>WAST</u> 30. THE
	MEASURES TAKEN MUST BE NOTED ON ALL INSPECT OTHER EROSION AND SEDIMENT CONTROL ITEMS CONDITIONS AND MAY BE REQUIRED AT THE DISCR WATER CONSERVATION DISTRICT OR ITS REPRESEN	CTIONS. MAY BE NECESSARY DUE TO ENVIRONMENTAL RETION OF THE CITY AND/OR COUNTY SOIL AND	REC AND MAT WAS ACT
	SEDIMENT/STORMWATER PONDS AND EROSION AND AS THE FIRST STEP OF GRADING AND WITHIN 7 COMPLETION OF CONSTRUCTION OF PONDS, SE FOLLOW TO AID IN THE STABILIZATION AND MIN THE SOIL BEFORE WATER LEAVES THE POND. AI SHALL CONTINUE TO FUNCTION UNTIL DISTURBED	SEDIMENT CONTROLS SHALL BE IMPLEMENTED DAYS FROM THE START OF GRUBBING. UPON EEDING AND MULCHING SHALL IMMEDIATELY IMIZE EROSION AND SEDIMENT TRANSPORT OF LL EROSION AND SEDIMENT CONTROLS	BE I SPILL 31. SHO GEN
	NO SOLID OR LIQUID WASTE SHALL BE DISCH INCLUDES WASHING OUT OF CEMENT TRUCKS.) D THE PLANS AND ARE PRESET FOR THIS PURPOSE A SITE STABILIZATION EITHER PERMANENT OR	ARGED INTO STORM WATER RUNOFF. (THIS DESIGNATED WASH PIT AREAS ARE SHOWN ON AWAY FROM AREAS OF STORM WATER RUNOFF.	DISF REG SPIL THIS NAT
	FOLLOWING REQUIREMENTS:	ABILIZATION	32. ALL WAS FAC
		TIME FRAME TO APPLY EROSION CONTROLS	<u>NON-S</u> 33. The
		WITHIN SEVEN DAYS OF THE MOST RECENT	WHI GRO STA OUT
	ONE YEAR OR MORE ANY AREA WITH IN 50 FEET OF A SURFACE	DISTURBANCE WITHIN TWO DAY IF REACHING FINAL GRADE	GAS COM LOC
	WATER OF THE STATE AND AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL	A V PRE TO I
	TEMPORARY ST	GRADE WITHIN THAT AREA	34. OPE PER OCC
		TIME FRAME TO APPLY EROSION CONTROLS	LUM 35. CON
	ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT D	WITHIN TWO DAYS OF THE MOST RECENT ISTURBANCE IF THE AREA WILL REMAIN IDLE	CONS 36. THE WAT CON
	DISTURBED AREAS THAT WILL BE DORMANT	FOR MORE THAN 14 DAYS WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED REAS MUST BE STABILIZED AT LEAST SEVEN	OPE WAS LOC SHO 37. ALL EPA
	SURFACE WATER OF THE STATE	DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOTS.	
1	WINTER	PRIOR TO THE ONSET OF WINTER WEATHER	38. THE
• 1	ARE OTHERWISE UNOBTAINABLE, ALTERNAT EMPLOYED. THESE TECHNIQUES MAY INCLUDE OF STONE.	IVE STABILIZATION TECHNIQUES MUST BE	39. THE ERO
	THE CONTRACTOR SHALL LIMIT THE SURFACE ARE EXCAVATION, BORROW, AND FILL OPERATIONS TEMPORARY CONTROL MEASURES TO PREVENT OTHER WATER COURSES, LAKES, PONDS, OR OTHEF	AND PROVIDE IMMEDIATE PERMANENT OR CONTAMINATION OF ADJACENT STREAMS OR	BE N OF REP 40. PER
	THIS WORK SHALL CONSIST OF TEMPORARY CONT ORDERED BY THE ENGINEER DURING THE LIFE O AND SEDIMENTATION THROUGH USE OF BEST M OHIO RAINWATER AND LAND DEVELOPMENT MANUA	F THE CONTRACT TO CONTROL SOIL EROSION ANAGEMENT PRACTICES AS DETAILED IN THE	CON AND 24-H OF REC
	TEMPORARY EROSION AND SEDIMENT CONTROL IT DETAILED IN THE PLANS, SHALL BE INSTALLED BY ANY CLEARING OR EARTHWORK OPERATIONS. TE WHEN AND AS DIRECTED BY THE ENGINEER TO CONDITION THEORY OF THE ENGINEER TO	Y THÉ CONTRACTOR UPON COMMENCEMENT OF MPORARY CONTROL MEASURES WILL BE USED CORRECT CONDITIONS THAT DEVELOP DURING	41. IF T INSF TO I
	CONSTRUCTION THAT WERE NOT FORESEEN DU PRIOR TO INSTALLATION OF PERMANENT CO TEMPORARILY TO CONTROL EROSION THAT PRACTICES.	NTROL FEATURES; OR THAT ARE NEEDED DEVELOPS DURING NORMAL CONSTRUCTION	42. ALL 43. AN I INSF
	EXISTING VEGETATIVE GROWTH SHALL REMAIN CONTRACTOR SHALL SEED AND MULCH ALL AREAS TEMPORARY EROSION CONTROL FEATURES SHAL	DISTURBED.	44. FOR BMP REP
	SUBSEQUENTLY BE REMOVED OR REPLACED WHE AND PERMANENT EROSION CONTROL FEATURES S RAINFALL AND RE-ESTABLISHED AS NECESSARY PROPERTY OF THE CONTRACTOR AND SHALL BE DI CONTRACTOR IS TO PROVIDE SPECIFIC LOCATION	SHALL BE CHECKED AFTER EACH MEASURABLE 7. REMOVED MATERIALS SHALL BECOME THE SPOSED OF OFF THE SITE.	45. FOR BMP 46. FOR WITH
	SWALES WITH VEHICLES AND EQUIPMENT. AT THE BE PROTECTED FROM INCURRING DAMAGE FROM T IS TO OCCUR THE CONTRACTOR IS RESPONSIBLE PRIOR TO CONTINUATION OF WORK ON SITE.	ESE LOCATIONS THE DIVERSION SWALES SHALL HE VEHICLES AND EQUIPMENT. IF ANY DAMAGE FOR REPAIRING SAID DAMAGE IMMEDIATELY,	
	IF PROPER CONTROL OF SOIL EROSION AND SED CONTRACTOR, THE ENGINEER MAY WITHHOLD PRO ACHIEVED.	GRESS ESTIMATES UNTIL PROPER CONTROL IS	
	IN THE EVENT THAT TEMPORARY EROSION AND S DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELE CONTROLS AS A PART OF THE WORK AS SCHED SUCH TEMPORARY WORK SHALL BE PERFORMED BY	ESSNESS, OR FAILURE TO INSTALL PERMANENT ULED, AND ARE ORDERED BY THE ENGINEER, ' THE CONTRACTOR AT HIS EXPENSE.	
	THE CONTRACTOR SHALL MAINTAIN ALL SEEDED MAINTENANCE SHALL ALSO INCLUDE REPAIRING A OR MULCHING OPERATION DUE TO WIND, WATER AREAS SHALL BE REPAIRED TO RE-ESTABLISH T PRIOR TO SEEDING AND SHALL THEN BE RE-FERT BY THE PROJECT ENGINEER.	NY AREAS DAMAGED FOLLOWING THE SEEDING R, FIRE, OR OTHER CAUSES. SUCH DAMAGED HE CONDITION OF THE GRADE OF THE AREA	
	INSTALL SILT FENCE OR COMBINATION BARRIE STORMWATER POLLUTION PREVENTION PLAN (SEE	DETAIL).	
	SILT FENCE TO BE PLACED AROUND ALL YARD TRANSPORT OF SILT (SEE DETAIL). INSTALL GRAVEL AND WIRE SEDIMENT FILTER		
	PROTECTION DETAIL). INSTALL TEMPORARY AGGREGATE PAD AT POINT	OF INGRESS AND EGRESS FROM PROJECT TO	
	PREVENT VEHICULAR TRACKING OFF-SITE (SEE REPLENISHED, AS NECESSARY, DURING THE CONST IF TRENCH OR GROUND WATER CONTAINS SEDIN SETTLING POND OR OTHER EQUALLY EFFECTIVE DISCHARGED FROM THE CONSTRUCTION SITE. AL SETTLING IN PLACE OR BY DEWATERING INTO	DETAIL). THE PAD SHALL BE CLEANED AND RUCTION PERIOD. MENT, IT SHALL PASS THROUGH A SEDIMENT SEDIMENT CONTROL DEVICE PRIOR TO BEING TERNATIVELY, SEDIMENT MAY BE REMOVED BY	
•	PRACTICE. TOPSOIL STOCKPILES SHALL RECEIVE TEMPOR STOCKPILING OPERATIONS ARE COMPLETED OR A 20 FEET FROM THE TOE OF THE STOCKPILE.	ARY SEEDING AND MULCHING AS SOON AS SILT FENCE SHALL BE INSTALLED ALONG AND	
	CONSTRUCTION PERMITS. ADDITIONAL EROSION CONTROLS MAY BE MANDATE ROUTINE INSPECTION WILL BE CONDUCTED ON A PROJECT. THE CONTRACTOR WILL BE RESPO REVEALED BY THE INSPECTIONS.	ALL EROSION CONTROL PRACTICES FOR THIS	

ENT FUELING AND MAINTENANCE

- IS OF FUEL.

DISPOSAL

EQUIREMENTS

- IES (TSDFs).

IMENT POLLUTION CONTROLS

ACTOR MAY NOT USE OIL AS A DUST SUPPRESSANT.

<u> 10NS</u>

- NTATIVES.

ION OF THE FUELING AND STAGING AREA IS SHOWN ON THE SWPPP. MODIFICATIONS TO OCATION OF THE EQUIPMENT FUELING AREA SHALL BE SHOWN ON AN AMENDED SWPPP. UELING AREA SHALL BE ESTABLISHED EITHER ON EXISTING PAVEMENT OR ON 12" OF LAR AGGREGATE BASE. IF AN AGGREGATE BASE COURSE IS USED, THEN THE CONTRACTOR PONSIBLE TO MAINTAIN THE STONE SUCH THAT IT IS REPLENISHED WHEN THE DEPTH IS THAN 6" OR REMOVED AND REPLACED IF THE STONE BECOMES LADEN WITH MUD.

L PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR WITH ONE ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS OR MORE, TOTAL GROUND TANK STORAGE OF 1330 GALLONS, OR BELOW GROUND STORAGE OF 42,000

2NTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM OF ONE SOLID WASTE DISPOSAL ACLE AND HAVE THIS RECEPTACLE EMPTIED BY A CONTRACT TRASH DISPOSAL SERVICE AULED AWAY FROM THE SITE AS NECESSARY. NO SOLID MATERIALS, INCLUDING BUILDING IALS ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORM WATER. ALL SOLID , INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION TIES, MUST BE COLLECTED AND PLACED IN THESE RECEPTACLES. THE LOCATION IS TO 'ERMINED IN THE FIELD. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

AN ACCIDENTAL SPILL OCCUR, IMMEDIATE ACTION WILL BE UNDERTAKEN BY THE CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL IMMEDIATELY AND BE D OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL TIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS, AS SOON AS POSSIBLE, ALL >25 GALLONS SHALL BE REPORTED TO THE APPROPRIATE STATE AND LOCAL AGENCIES, ALL INCLUDE THE OHIO EPA AT 800-282-9378, THE LOCAL FIRE DEPARTMENT, THE AL RESPONSE CENTER AT 800-424-8802, US COAST GUARD 440-288-1206 (IF APPLICABLE).

NTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL

ONTRACTOR IS RESPONSIBLE FOR ALL NON-SEDIMENT POLLUTION CONTROLS AT THIS SITE, PROHIBIT NON-SEDIMENT POLLUTANTS FROM DISCHARGING INTO RUNOFF OR INTO THE ND AND MUST DISPOSE OF THEM IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, AND FEDERAL REGULATORY AUTHORITIES. IT IS PROHIBITED TO BURN, BURY, OR POUR ONTO THE GROUND, DITCH OR INTO A STORM SEWER- SOLVENTS, PAINTS, STAINS, INE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT, CURING DUND AND OTHER SUCH TOXIC OR HAZARDOUS WASTE. STORAGE TANKS SHALL BE 'ED IN DIKED AREAS AWAY FROM DRAINAGE CHANNELS AND THE DIKED AREA SHOULD HOLD UME OF 110% OF THE LARGEST TRUCK OR TANK, SHOULD THE CONTRACTOR FAIL TO NT NON-SEDIMENT POLLUTION AT THIS SITE, HE MUST IMMEDIATELY REMEDIATE THE SITE CAL, STATE AND FEDERAL REGULATORY AUTHORITIES APPROVAL AT HIS OWN EXPENSE.

URNING SHOULD BE DONE IN ACCORDANCE WITH (OAC 3745-19). IF OPEN BURNING IS TED IT SHOULD BE DONE IN RESTRICTED AREAS FOR BARBECUES, HEATING, AND CERTAIN TIONAL PURPOSES. OPEN BURNING IN AN UNRESTRICTED AREA IS LIMITED TO SCRAP , WOODEN FENCE POSTS, AGRICULTURAL, LAND-CLEARING, OR LANDSCAPE WASTES.

JCTION FILL, DEMOLITION DEBRIS & CHEMICAL COMPOUNDS

ONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH R FROM CONCRETE TRUCKS FROM MIXING WITH RUN-OFF AND LEAVING THE SITE. THE ACTOR SHALL SIZE THE CONCRETE WASHOUT PIT TO HANDLE HIS PROPOSED CONCRETE TIONS AND SHALL MAINTAIN THE PIT SUCH THAT ALL CONCRETE TRUCKS CAN USE IT TO OUT. ALL CURED RESIDUE FROM THE PIT SHALL BE DISPOSED OF IN ACCORDANCE WITH , STATE AND FEDERAL REGULATIONS. A GENERAL LOCATION FOR THE WASHOUT PIT IS ON THE PLAN AND MAY BE MOVED TO BETTER FIT THE CONTRACTOR'S METHODS. ONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO PPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE(ORC)3714. MATERIALS CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO STRATIVE CODE (OAC) 3745-20).

TORM WATER POLLUTION PREVENTION PLAN AND DETAILS SHALL BE AVAILABLE FOR TION ON SITE DURING WORKING HOURS.

NER OF RECORD MUST PROVIDE REGULAR INSPECTION AND MAINTENANCE FOR ALL SEDIMENT CONTROL PRACTICES. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY SSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION CITY AND/OR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR ITS

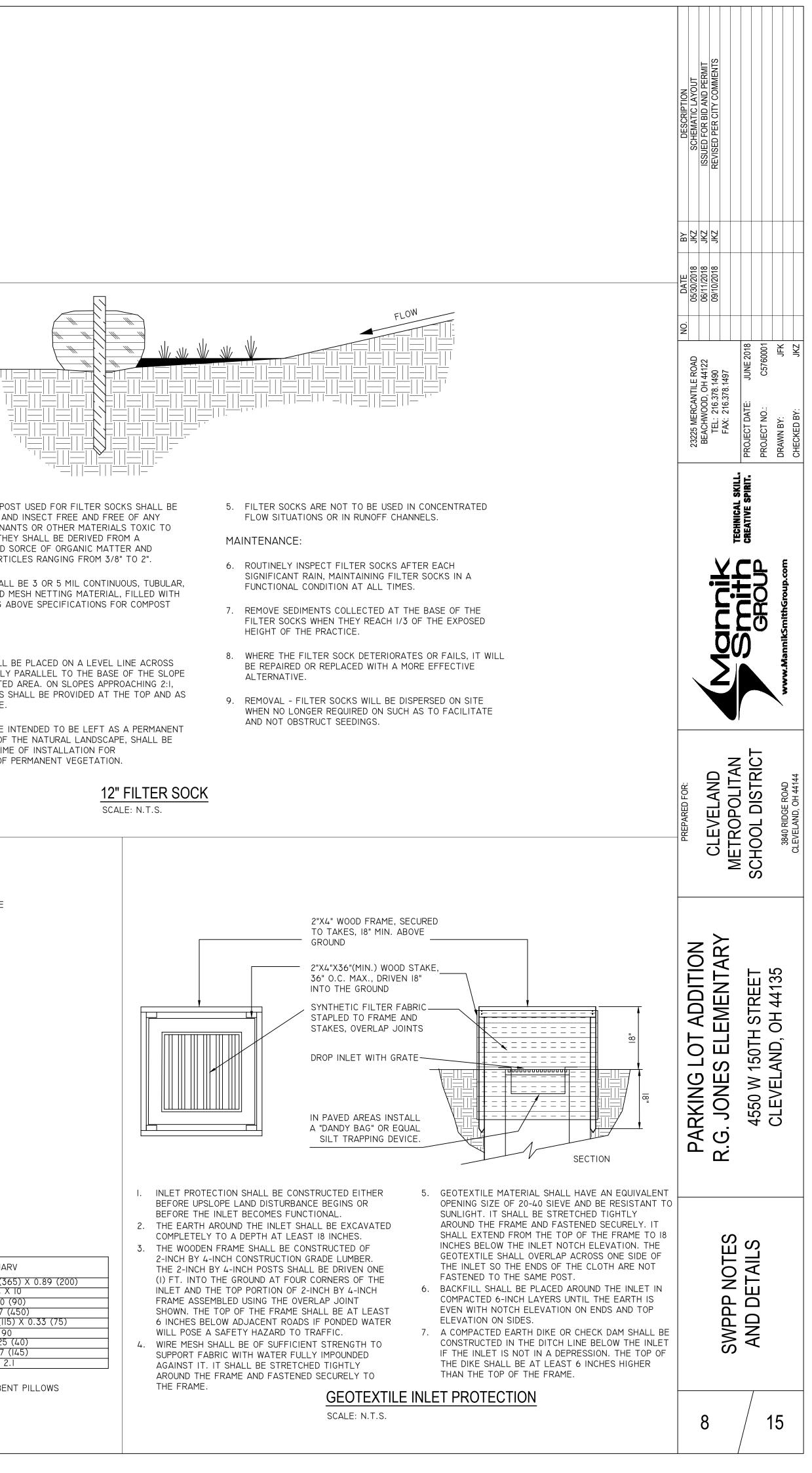
ENT RECORDS OF ALL MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE RUCTION PERIOD. INSPECTION MUST BE MADE A MINIMUM OF ONCE EVERY SEVEN (7) DAYS IMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN WITHIN A IR PERIOD. THE NAME OF OWNER'S DESIGNATED INSPECTOR, MAJOR OBSERVATIONS, DATE PECTIONS AND CORRECTIVE MEASURES TAKEN MUST BE NOTED ON ALL INSPECTIONS. OS SHALL BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITIES.

SITE WILL BE DORMANT FOR A LONG PERIOD, IT'S STABILIZED, AND LESS FREQUENT TIONS ARE DESIRED, A WAIVER REQUEST MAY BE SUBMITTED TO DEPA FOR A REDUCTION ITHLY INSPECTION.

PECTIONS SHALL BE CONDUCTED BY A QUALIFIED INSPECTION PERSONNEL. PECTION CHECKLIST SHALL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY

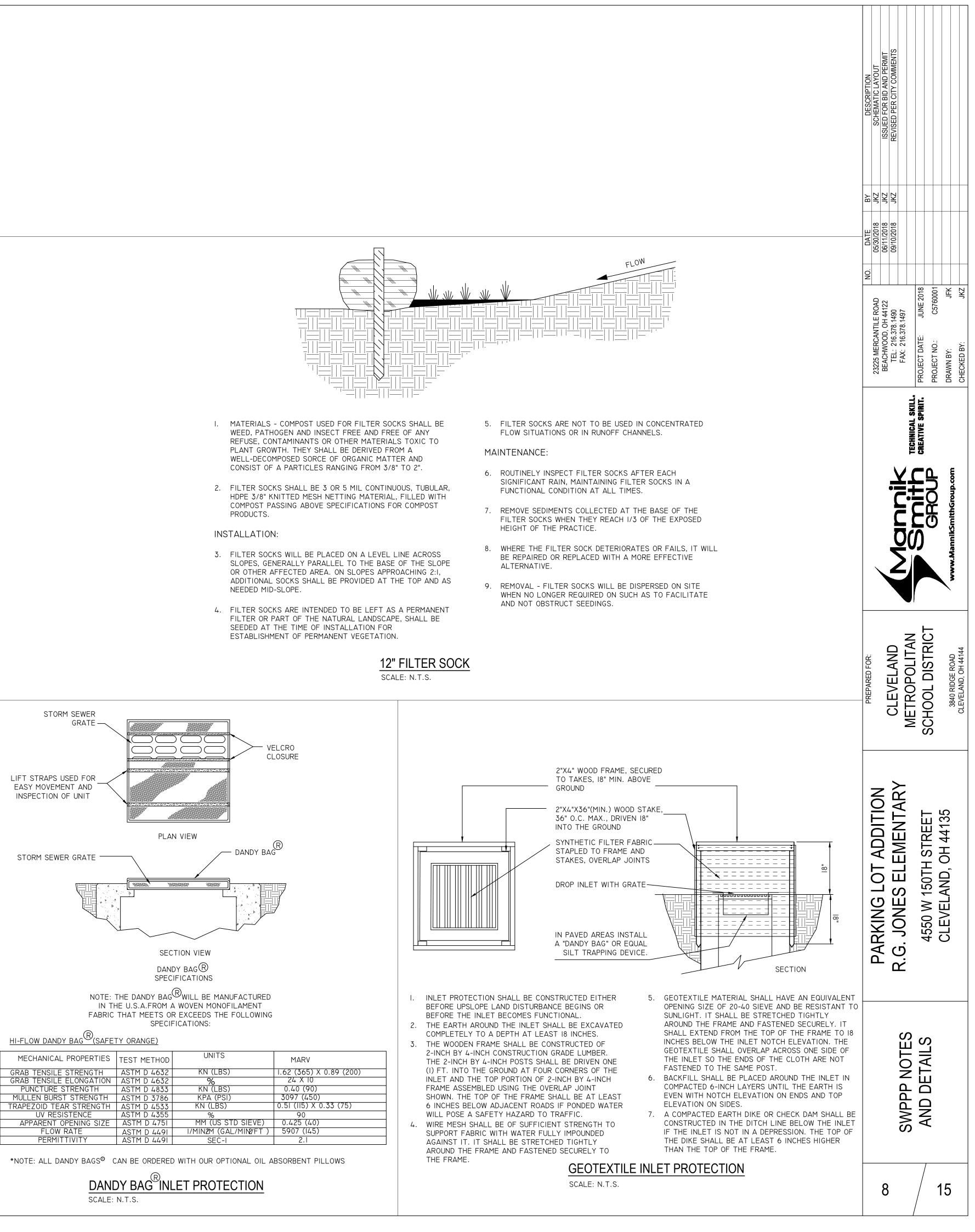
1P'S THAT HAVE BEEN DETERMINED NEED REPAIR OR MAINTENANCE, NON-SEDIMENT POND SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS SHALL BE ED OR CLEANED OUT WITHIN 10 DAYS OF THE INSPECTION.

IP'S NOT MEETING THE INTENDED FUNCTION, THE BMP SHALL BE REPLACED WITH A NEW D INSTALLED WITHIN 10 DAYS OF INSPECTION. SSING BMP'S REQUIRED FOR INSTALLATION BY THE SWPPP, THE BMP SHALL BE INSTALLED IO DAYS OF THE INSPECTION.



- PRODUCTS.

- SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.



PERMANENT SEEDING SCHEDULE						
	SEED	ING RATE	NOTES			
SEED MIX	LBS./ ACRE	<u>LBS./I,000 SQ. FT.</u>	NOTES:			
·	GEN	IERAL USE				
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20-40 10-20 20-40	/2- /4- /2 /2-	FOR CLOSE MOWING & FOR WATERWAYS WITH LESS THAN 2.0 FT/SEC. VELOCITY			
TALL FESCUE	40-50	- 				
TURF-TYPE- (DWARF) FESCUE	90	2 1/4				
	STEEP BANK	S OR CUT SLOPES				
TALL FESCUE	40-50	$ - \frac{1}{4}$				
CROWN VETCH TALL FESCUE	10-20 20-30	$\frac{1}{4} - \frac{1}{2}$ $\frac{1}{2} - \frac{3}{4}$	DO NOT SEED LATER THAN AUGUST			
FLAT PEA TALL FESCUE	20-25 20-30	$\frac{1}{2} - \frac{3}{4}$ $\frac{1}{2} - \frac{3}{4}$	DO NOT SEED LATER THAN AUGUST			
	ROAD DITC	HES AND SWALES				
TALL FESCUE	40-50	I - 1				
TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS	90 5	2 1 0.1				
		LAWNS				
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100-120 -	2 2				
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100-120	2 I -]	DO NOT SEED LATER THAN AUGUST			

TEMPORARY SEEDING						
SEEDING DATES	SPECIES	<u>LB./1000 FT2</u>	LB./ACRE			
MARCH I TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 	128 (4 BUSHEL) 40 40			
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS		40 40 40			
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	55 142 17 17			
	OATS TALL FESCUE ANNUAL RYEGRASS	3 	128 (3 BUSHEL) 40 40			
AUGUST 16 TO NOVEMBER	RYE TALL FESCUE ANNUAL RYEGRASS	3 	112 (2 BUSHEL) 40 40			
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 	120 (2 BUSHEL) 40 40			
	PERENNIAL RYE TALL FESCUE ANNUAL RYEGRASS		40 40 40			
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	40 40 40			
NOVEMBER TO FEB. 29	USE MULCH OR DORI	MANT SEEDING				

	SWPPP AMENDMENT LOG		
PROJECT NAME:			
AMENDMENT NUMBER	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY

	CORRECTIVE ACTION LOG						
PROJECT NAME:							
INSPECTION DATE	INSPECTOR NAME	DESCRIPTION OF CORRECTIVE ACTION NEEDED (FROM INSPECTOR REPORT)	CORRECTIVE ACTION TAKEN	DATE ACTION TAKEN			
·							

	SWPPP MODIFICATION LOG						
PROJECT NAME:							
AMENDMENT NUMBER	DESCRIPTION OF THE AMENDMENT	<u>DATE OF</u> <u>AMENDMENT</u>	AMENDMENT PREPARED BY				

	SWPPP GRADING AND ST	ABILIZATION	ACTIVITIES LO	DG
PROJECT NAME:				
DATE GRADING ACTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (INDICATE TEMP. OR PERMANENT)	DATE WHEN STABILIZATION MEASURES ARE INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION
		1	I	<u> </u>

DESCRIPTION	SCHEMATIC LAYOUT	ISSUED FOR BID AND PERMIT	REVISED PER CITY COMMENTS					
DATE BY	05/30/2018 JKZ	06/11/2018 JKZ	09/10/2018 JKZ					
NO.			490	FAX: 216.378.1497	PROJECT DATE: JUNE 2018		DRAWN BY: JFK	
PREPARED FOR:			CLEVELAND					

GENERAL CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION SHALL COMPLY WITH LOCAL MUNICIPALITY AND COUNTY CODES AND STANDARDS. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- 2. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS.
- 3. ALL WORK WITHIN RIGHT OF WAY TO INCLUDE TRAFFIC CONTROL IN ACCORD WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND PER ALL CITY REQUIREMENTS. ROAD MUST REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC PLAN AND SUBMIT TO THE CITY AND OWNER FOR APPROVAL PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO COORDINATE ANY NECESSARY LANE CLOSURES WITH THE CITY
- 4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
- 5. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING. IF CONDITIONS ENCOUNTERED ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 6. SHOULD ANY UNCHARTED, OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- 7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCY REGARDING THE PROPOSED WORK OR UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR THE PROJECT AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 9. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
- 10. CONTRACTOR TO COORDINATE TEMPORARY UTILITY OUTAGES WITH APPLICABLE UTILITY COMPANY AND CITY AND NOTIFY NEIGHBORING EFFECTED OWNERS NO LESS THAN 72 HOURS PRIOR TO PLANNED OUTAGE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO PERFORM ALL THE WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 11. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- 12. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER, LOCAL MUNICIPALITY, AND STATE.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF PEDESTRIANS AND VEHICLES CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS IN ACCORDANCE WITH ODOT REGULATIONS AND/OR AS REQUIRED OR DIRECTED BY THE SITE ENGINEER OR CONSTRUCTION MANAGER OR LOCAL GOVERNING AUTHORITIES. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM ODOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
- 14. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- 15. THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- 16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 15 WORKING DAYS FOR REVIEW.
- 17. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
- 18. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT, OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY AND AT NO ADDITIONAL COST TO THE OWNER.
- 19. ALL DISTURBANCE INCURRED TO CITY OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY OF THE LOCAL AND/OR OHIO DOT.
- 20. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRE CONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- 21. WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE PROJECT ENGINEER AND OWNER APPROVE THE METHOD AND MATERIALS TO BE INCORPORATED INTO THE WORK.
- 22. ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY REQUIREMENTS.
- 23. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.
- 24. ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CONTRACTOR WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 25. IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF

DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TI REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR

- 27. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE U DEVELOPMENT, THE EXISTING RIGHT-OF-WAYS CONSTRUCTION AND PERMA AND SHALL NOT TRESPASS UPON OTHER PROPERTY WITHOUT THE WRITTEN THE OWNER.
- 28. WHERE CONFLICT ARISES BETWEEN ALL SPECIFICATIONS (BOOK OR PLAN E CITY REQUIREMENTS, THE MORE STRINGENT SPECIFICATION SHALL PREVAIL.
- 29. FINAL CLEANUP: THE CONTRACTOR SHALL CLEAN-UP ALL DEBRIS AND MA RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, ST DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION AND ALL APPLICABLE GOVERNMENTAL AND REGULATORY AGENCIES. <u>OHIO EPA NOTES:</u>
- 1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIO SANITARY SEWER SYSTEM ARE PROHIBITED.
- 2. A TEN FOOT MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WL BETWEEN THE WATER LINE AND SANITARY SEWER.
- 3. AN 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT CLEAR) WILL B BETWEEN THE WATER LINE AND SANITARY SEWER AT ALL CROSSINGS.
- 4. A TEN FOOT MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT CLEAR) WLL BETWEEN THE WATER LINE AND STORM SEWER.
- 5. AN 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT CLEAR) WILL E BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS. BOOSTE NOT PERMITTED ON SERVICE CONNECTIONS.
- DEMOLITION NOTES:
- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE REQUIRED FOR DEMOLITION WORK.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LAWFUL MANNER
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT, AN FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCT IN THE PLANS AND SPECIFICATIONS.
- 4. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABATEME COORDINATED WITH THE APPROPRIATE UTILITY COMPANY LISTED ON THE PI
- 5. ALL DEMOLISHED MATERIALS SHALL BE TAKEN FROM THE SITE IMMEDIATEL OTHERWISE NOTED) AND DISPOSED OFF-SITE IN ACCORDANCE WITH ALL L AND ORDINANCES. NO BURNING OF ANY MATERIALS WILL BE ALLOWED ON NO CLEARED OR GRUBBED MATERIAL SHALL BE BURIED OR LEFT ON SITE.
- 6. MATERIALS NOTED ON THE PLANS TO BE SALVAGED TO OWNER SHALL BE AREAS INDICATED ON THE PLANS, OR TO THE OWNERS SATISFACTION.
- 7. USE SUITABLE METHODS TO LIMIT DUST AND DIRT TO ADJACENT STRUCTUR PROPERTY. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT EXISTING CONDITIONS PRIOR TO THE START OF THE DEMOLITION WORK.
- 8. THE CONTRACTOR SHALL PROTECT TREES, LANDSCAPING, SITE IMPROVEME ITEMS NOT SCHEDULED FOR CLEARING, OR THAT MIGHT BE DAMAGED BY CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY ITEMS DAMAGED.
- 9. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY EROSION. PO ST CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROJE THE SWPPP PLAN, NOTES AND DETAILS.
- 10. THE BUILDING PAD AREA IS DEFINED AS THE AREA TWENTY (20) FEET OU PROPOSED BUILDING FOOTPRINT, INCLUDING ATTACHED WALKWAYS, CANOPI LOADING DOCKS, UTILITY PADS, AND ANY OTHER SUCH APPURTENANCES.
- 11. ANY AND ALL DAMAGE TO EXISTING PAVEMENT WITHIN THE LAYDOWN AREA REPAIRED.
- 12. ALL UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION SHALL REMAIN CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES REMOVAL OR RELOCATION AT THEIR SOLE EXPENSE.
- 13. CONTRACTOR SHALL PERFORM ALL CLEARING, GRUBBING, REMOVAL OF TRE VEGETATION, AND DEBRIS NECESSARY TO PERFORM THE WORK INDICATED CONTRACTOR SHALL LIMIT LAND DISTURBANCE TO ONLY THAT REQUIRED PROPOSED IMPROVEMENTS. NO CLEARED OR GRUBBED MATERIAL SHALL BE ON SITE.

LAYOUT AND PAVING NOTES

- 1. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED FACE OF THE STRUCTURE UNLESS OTHERWISE NOTED.
- 2. ALL PAVING MATERIALS FURNISHED AND WORK COMPLETED SHALL BE IN S ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS SPECIFIED. THE CONTRACTOR SHALL SUBMIT A JOB-MIX FORMULA FOR T PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS PAVEMENTS.
- 3. ASPHALT SURFACE COURSE SHALL BE LAID WITH THE DIRECTION OF TRAFF DRIVE LANES WITHIN PARKING FIELDS.
- 4. DO NOT PLACE MIX ON FROZEN OR WET SURFACES, OR WHEN PRECIPITATIO
- 5. DO NOT PLACE MIX WHEN AIR OR SURFACE TEMPERATURE IS BELOW THE 5.1. BINDER COURSE AND WALKS 40 °F 5.2. WEARING COURSE, ROADWAYS AND PARKING AREAS 50 °F
- 6. ANY MATERIAL DELIVERED TO THE SPREADER HAVING A TEMPERATURE LOW SHALL NOT BE USED.
- 7. THE MINIMUM ROLLER WEIGHT FOR PAVEMENT SHALL BE TEN (10) TON. SHALL BE COMPACTED TO A MINIMUM OF NINETY-THREE (93%) PERCENT MAXIMUM DENSITY (TMD).
- 8. ALL PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES TO AASHTO AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. BE CONSTRUCTED OF FLAT SHEET ALUMINUM IN ACCORDANCE WITH STATE SPECIFICATIONS. STEEL SIGN POSTS SHALL BE USED AND CONFORM TO ASTM A441 AND SHOULD BE GALVANIZED IN ACCORDANCE WITH AASHTO
- 9. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS PLANS. PAVEMENT MARKINGS SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS. APPLY PAINT TO CLEAN, DRY SURFACES TO YIELD SHARP DEFINITION OF EDGES. AIR TEMPERATURE 50°F MINIMUM. APPLY TWO (2) COATS.
- 10. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIALS

TICKETS SHALL BE "OR.		SPECIFICATIONS AND SHALL BE EITHER COLD LAID PLASTIC TAPE OR PAINTED AS DESIGNATED ON THE PLANS OR PAVEMENT MARKING DETAILS.
UNDER ANENT EASEMENTS EN CONSENT OF	11.	THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
BASED) INCLUDING		DIRECTIONAL TRAFFIC ARROWS SHALL BE PAINTED WHITE UNLESS OTHERWISE NOTED.
L. //ATERIALS	14.	ANY PART OF A LIGHT POLE OR TRAFFIC SIGN. CONTRACTOR SHALL SAW-CUT IN A NEAT, STRAIGHT LINE FOR SMOOTH TRANSITIONS AT
TRUCTURES, ON OF THE OWNER		TIE-INS TO EXISTING EDGES OF PAVEMENT AND AT COLD JOINTS OF RECENTLY PAVED PAVEMENT.
	15.	JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWNG EDGES OF JOINTING TOOL.
IONS TO THE	16.	CONTRACTOR SHALL SAWCUT TIE-INS AT EXISTING CURBS TO ENSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAWCUT AND TRANSITION TO EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE.
MLL BE MAINTAINED BE MAINTAINED	17.	ALL CONCRETE SHALL BE 6% (+ $/-1\frac{1}{2}$ %) AIR ENTRAINED, 3/4"AGGREGATE AND CONFORM TO A 28 DAY STRENGTH OF 4,000 PSI MINIMUM AND SHALL HAVE A MAXIMUM W/C OF 0.50. ALL CONCRETE SHALL BE MADE WITH TYPE I OR TYPE II CEMENT UNLESS OTHERWISE SPECIFIED.
MLL BE MAINTAINED	18.	ALL SIDEWALKS SHALL HAVE A LIGHT BROOM FINISH. VERTICAL FACES SHALL BE FORMED.
BE MAINTAINED		BASE AND ASPHALT THICKNESS SPECIFIED ARE THE MINIMUM REQUIRED.
STER PUMPS ARE	20.	ALL CURB RADII ARE 4', UNLESS OTHERWISE NOTED. FOR CURBED ISLANDS SHOWN WITH ONE LABELED RADIUS, THE LABELED RADIUS SHALL APPLY TO ALL FOUR CORNERS OF THE ISLAND.
e permits		ALL CONCRETE FOR CURBS SHALL BE AIR ENTRAINED TO BE 6% (+/ $-1\frac{1}{2}$ %), MADE WITH SAND AND GRAVEL AGGREGATE AND SHALL CONFORM TO A TWENTY EIGHT (28) DAY STRENGTH OF 4,500 PSI MINIMUM, SHALL HAVE A MAXIMUM W/C OF 0.40 AND 130 LBS/LF.
ALL RUBBISH,	22.	CONTRACTOR SHALL INSTALL ALL CURBING IN A TRUE LINE AND PROPER GRADE IN ACCORDANCE WITH THE APPROVED SITE PLANS AND APPROPRIATE STATE DOT SPECIFICATIONS. CURVED CURB SECTIONS SHALL BE USED FOR RADII LESS THAN 30'. ALL CURBING SHALL BE BACKFILLED WITH CLEAN AGGREGATE.
AND OWNER FOR	23.	CONTRACTOR SHALL REPAIR ANY CURB DAMAGED DURING CONSTRUCTION ACTIVITIES.
UCTION DESCRIBED	24.	ALL CURBS SHALL BE FULL DEPTH CONCRETE CURB WITH 6" REVEAL, UNLESS OTHERWISE NOTED.
IENT SHALL BE PLANS.	25.	BUILDING FOOTPRINTS ARE SHOWN FOR INTENT ONLY. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR BUILDING FOUNDATION AND WALL DIMENSIONS.
ELY (UNLESS LAWS, REGULATIONS DN OR OFF SITE.	26.	CONTRACTOR TO COORDINATE TRANSFORMER AND GENERATOR PAD DIMENSIONS AND SPECIFICATIONS WITH MEP PLANS AND ELECTRIC PROVIDER PRIOR TO CONSTRUCTION.
	27.	SEE ARCHITECTURAL PLANS FOR FROST SLAB DETAILS AND SPECIFICATIONS.
E STORED IN URFS OR	28.	CONTRACTOR TO INSTALL ALL UTILITY PIPING, SEWERS, CONDUIT PRIOR TO PAVING OPERATIONS. CONTRACTOR TO COORDINATE ALL SITE UTILITIES WITH UTILITY PLAN, AND MEP PLANS.
NT AREAS TO	<u>gene</u>	ERAL GRADING & DRAINAGE NOTES:
ENTS, AND OTHER CONSTRUCTION.	1.	TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
THAT ARE POLLUTION, AND	2.	MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
)JECT. REFERENCE	3.	UNDERDRAINS MAY BE ADDED, IF DETERMINED NECESSARY BY THE ENGINEER OR CONSTRUCTION MANAGER, AFTER SUBGRADE IS ROUGH GRADED.
DUTSIDE OF THE PIES, SIDEWALKS,	4.	THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
EA SHALL BE N INTACT. THE	5.	THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
S NOT MARKED FOR	6.	THE CONTRACTOR SHALL BE ADVISED THAT ALL EXCAVATION IS CONSIDERED UNCLASSIFIED
REES, STUMPS,) HEREIN. THAT TO COMPLETE THE BE BURIED OR LEFT		AND THAT IT SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
GE OF PAVING	7.	CLEAN HARD FILL MATERIAL SHALL MEET THE REQUIREMENTS OF OAC 3745-4000-05 AND ALL REQUIREMENTS OF THE OHIO EPA. ANY PERSON USING CLEAN HARD FILL ON A SITE OTHER THAN THE SITE OF GENERATION MUST PROVIDE A WRITTEN NOTICE OF INTENT TO FILL TO THE LICENSING AUTHORITY(IES) WHERE THE CLEAN HARD FILL IS TO BE PLACED AT LEAST SEVEN DAYS PRIOR TO PLACING.
) TO THE OUTSIDE STRICT	8.	SITE GRADING SHALL BE PERFORMED TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS AND TO PRECLUDE THE PONDING OF WATER ON SITE.
S UNLESS OTHERWISE THE BITUMINOUS L AT LEAST 14	9.	VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE BUILDINGS WITH THE ARCHITECTURAL PLANS.
FFIC FLOW IN ALL	10.	SPOT ELEVATIONS SHOWN DEPICT THE PROPOSED PAVEMENT OR GROUND SURFACE OR PAVEMENT ELEVATION AT FACE OF CURB, UNLESS OTHERWISE NOTED. TOP OF ALL CONCRETE CURBING IS 6–INCHES ABOVE SPOT ELEVATIONS NOTED.
TION IS OCCURRING. E FOLLOWING:	11.	IT IS THE CONTRACTORS OBLIGATION AND RESPONSIBILITY TO CONFIRM/CONCUR WITH THE EXISTING GRADES SHOWN HEREIN. THE CONTRACTOR MUST CONFIRM ALL EXISTING GRADES PRIOR TO ANY/ALL EXCAVATION.
OWER THAN 250 °F	12.	THE CONTRACTOR MUST DOCUMENT EXISTING GRADE DISPUTES BY PROVISION OF A TOPOGRAPHIC SURVEY BY A STATE OF OHIO REGISTERED PROFESSIONAL SURVEYOR, PRIOR TO ANY EARTH DISTURBING ACTIVITIES. IN THE ABSENCE OF THE PROVISION OF TOPOGRAPHIC SURVEY BY THE CONTRACTOR, THE GRADES SHOWN HEREON WILL BE THE "TOPOGRAPHY OF RECORD" FOR ANY AND ALL SOIL VOLUME DISPUTES.
ALL COURSES OF THEORETICAL	13.	THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL IMPORT/EXPORT NECESSARY TO ACHIEVE THE PROPOSED GRADES.
S SHALL CONFORM ALL SIGNS SHALL	14.	ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 671 TYPE F.
TE HIGHWAY D ASTM A36 OR M111.	15.	ALL EXCAVATION UNDER OR NEAR EXISTING OR FUTURE PAVEMENT (INCLUDING SIDEWALKS), SUBJECT TO SETTLEMENT, WILL BE BACK FILLED WITH PREMIUM BACKFILL AS DEFINED HEREIN. AT QUESTIONABLE AREAS THE DECISION OF THE OF THE ENGINEER, OR HIS
S SHOWN ON THE RECOMMENDATIONS.	16	REPRESENTATIVE, WILL PREVAIL.

16. PAVEMENT EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH ITEM 203.12 OF OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO MAKE COMPACTION TESTS. TESTS SHALL BE TAKEN BY A TESTING COMPANY APPROVED BY THE ENGINEER. THE COST OF THESE TESTS SHALL BE PAID BY THE

CONTRACTOR. "PROOF" ROLLING WILL BE REQUIRED PRIOR TO PAVING AND SHALL BE CONDUCTED PRIOR TO PLACEMENT OF AGGREGATE BASE AND PERFORMED WITH THE OWNER'S INSPECTOR PRESENT AND PAID FOR BY THE CONTRACTOR. GENERAL UTILITY NOTES:

- 1. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY, AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
- 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-5191 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
- 3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- 4. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN AND SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION, AS NECESSARY.
- 5. RELOCATION OF ANY UTILITY COMPANY FACILITIES TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY AND LOCAL MUNICIPALITY.
- 6. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERALS SHALL CONFORM TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY, APPLICABLE COUNTY AND LOCAL DEPARTMENTS, AND APPROPRIATE UTILITY COMPANY SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
- 8. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT AND REPLACED IN ACCORDANCE WITH THE PAVEMENT REPAIR REQUIREMENTS OF LOCAL MUNICIPALITY AND THE DETAILS CONTAINED HEREIN.
- 9. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 10. SANITARY LATERAL AND STORM SEWERS SHALL MAINTAIN 10-FOOT MIN. HORIZONTAL AND 1.5–FOOT MIN. VERTICAL SEPARATION DISTANCE FROM WATER LINES. A 1–FOOT MIN. CLEARANCE SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UTILITIES INCLUDING GAS, ELECTRICAL AND TELEPHONE. ADDITIONAL PROTECTION MEASURES INCLUDING, BUT NOT LIMITED TO, CONCRETE PIPE ENCASEMENT MAY BE REQUIRED IF INDICATED CLEARANCES ARE NOT MET.
- 11. THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN MAX. 8" LOOSE LIFTS TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557, ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION.
- 12. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
- 13. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB-OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
- 14. UTILITY CONDUIT PIPE SHALL BE SCHEDULE 80 PVC AND/OR AS REQUIRED BY THE LOCAL UTILITY COMPANY. SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN SERVICES. MINIMUM COVER SHALL BE 36" ON ELECTRIC CONDUITS AND 24" ON TELEPHONE AND CABLE CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HAND HOLES AS REQUIRED.
- 15. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL, IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, LOCAL MUNICIPALITY, AND/OR LOCAL COUNTY REQUIREMENTS.
- 16. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
- 17. THE CONTRACTOR SHALL RESTORE ANY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. DISTURBED DURING CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER.
- 18. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE CONSTRUCTION MANAGER AND IF ALLOWED BY THE CITY AND/OR COUNTY ENGINEERS.
- 19. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF MATERIALS AND STRUCTURES TO THE CONSTRUCTION MANAGER AND LOCAL GOVERNING AGENCIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 20. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF WATER MAINS & SERVICES TO A POINT 5' OUTSIDE OF EACH BUILDING. THE INDIVIDUAL BUILDING CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO INTERIOR PLUMBING.
- 21. IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREON, THE SITE ENGINEER SHALL BE NOTIFIED FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
- 22. REFERENCE SITE ELECTRICAL PLAN FOR LOCATION OF ELECTRIC CONDUIT FOR ALL SITE ELECTRICAL WORK.
- 23. CONTRACTOR TO SEE MEP SITE PLAN FOR ALL ELECTRICAL AND COMMUNICATION CONDUIT RUNS PRIOR TO START OF CONSTRUCTION.
- 24. ALL UTILITIES SHALL BE CONSTRUCTED, INSPECTED, AND TESTED IN ACCORDANCE WITH CITY STANDARDS AND REGULATIONS. THE CITY ENGINEERING DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE FOR SCHEDULING OF AN INSPECTOR.
- 25. PROPOSED ELEVATIONS SHOWN SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE CITY ENGINEERING DEPARTMENT AND THE CONSTRUCTION MANAGER.
- 26. THE LOCATION, SIZE, AND DEPTH OF THE EXISTING SANITARY LATERAL OR MAIN SHALL BE VERIFIED IN THE FIELD IN THE PRESENCE OF THE CITY INSPECTOR. THE SLOPE OF THE LATERAL TO THE BUILDING WILL THEN BE DETERMINED. THE CITY MUST APPROVE THE TYPE AND LOCATION OF ANY CONNECTION PRIOR TO INSTALLATION. THE EXISTING SANITARY LATERAL SHALL BE TELEVISED PRIOR TO INSTALLATION OF ANY SANITARY SEWER SYSTEM COMPONENTS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IS THE EXISTING LATERAL IS NOT FOUND TO BE IN GOOD CONDITION.
- 27. ALL BACK FLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CITY'S UTILITY DEPARTMENT.
- 28. ALL FIRE SERVICE MAINS SHALL BE INSTALLED BY AN INDIVIDUAL WITH APPROPRIATE CERTIFICATION BY THE STATE OF OHIO.
- 29. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE

SANITARY SEWER ARE PROHIBITED.

- 30. IN THOSE AREAS WHERE IT IS REQUIRED TO LOWER THE WATER LINE TO CLEAR AN OBSTACLE AND THE DEFLECTION WILL BE GREATER THAN 18", THE USE OF BENDS WILL BE REQUIRED TO CLEAR THE OBSTACLE AND BRING THE WATER MAIN UP TO THE STANDARD FIVE (5) FEET OF COVER.
- 31. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).
- 32. CONTRACTOR TO INSTALL SHORING AND/OR TEMPORARY STRUCTURES TO PROVIDE SUPPORT TO ANY AND ALL EXISTING AFFECTED UTILITIES PER UTILITY PROVIDER'S MINIMUM STANDARDS.
- 33. CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS, ELECTRICAL AND TELECOMMUNICATIONS CONDUIT, AND GAS LINES WITH M.E.P. PLANS PRIOR TO START OF CONSTRUCTION.

STORM UTILITY NOTES

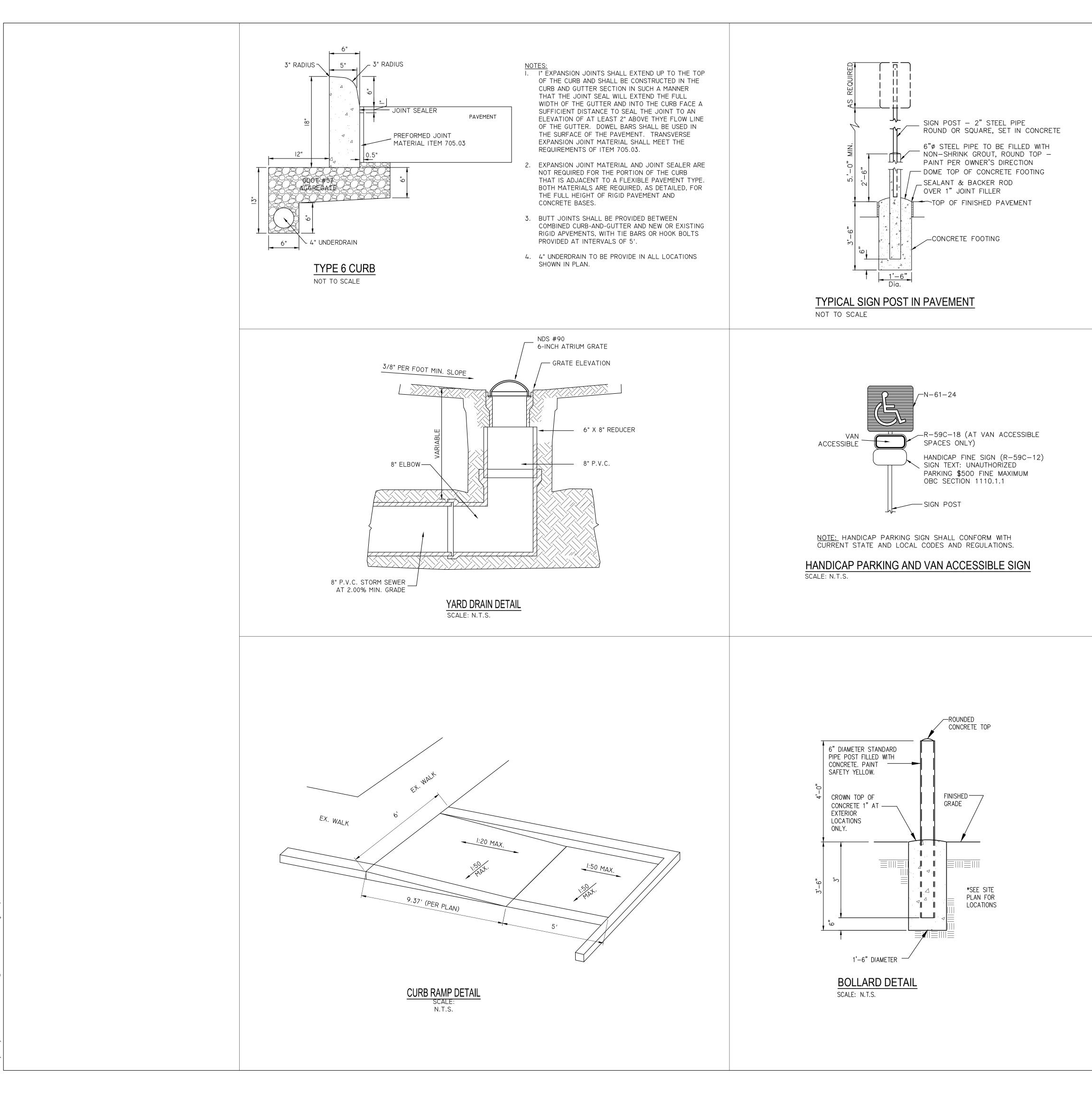
- 1. CURB INLETS ARE TO BE ALIGNED WITH FACE OF CURBS.
- 2. NORTHINGS AND EASTINGS FOR STORM STRUCTURES GIVEN IN SITE PLANS ARE UNDERSTOOD TO REPRESENT THE CENTER OF THE INLET STRUCTURE.
- 3. ALL CATCH BASINS/MANHOLES, UNLESS STATED OTHERWISE IN STRUCTURE SCHEDULE SHALL BE AS FOLLOWS OR APPROVED EQUAL:
- CURB INLETS: EAST JORDAN IRON WORKS 7045 WITH TYPE M1 SINUSOIDAL GRATE AND 3.1. 7050 T1 BACK. ALL CATCH BASINS SHOWN ADJACENT TO CURBS ARE TO BE CURB INLETS.
- 4. ALL STORM SEWER PIPES SHALL BE HDPE OR PVC UNLESS STATED OTHERWISE ON THE PLANS.
- 4.1. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER PIPE SHALL HAVE A SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS: AASHTO M252, TYPE S FOR 4-INCH THROUGH 10-INCH PIPE, AASHTO M294, TYPE S FOR 12-INCH THROUGH 36-INCH PIPE, ASTM F2306 FOR 12-INCH THROUGH 60-INCH PIPE, OR ASTM F2648 FOR 4-INCH THROUGH 60" PIPE. JOINTS SHALL BE SILT-TIGHT BELL AND SPIGOT CONNECTIONS. HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- POLY VINYL CHLORIDE (PVC) PIPE FOR STORM SHALL HAVE BUILT-IN RUBBER GASKET 4.2. JOINTS. PVC PIPE SHALL CONFORM TO ASTM D3034 SDR35 WTH COMPRESSION JOINTS AND APPROPRIATE FITTINGS. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- RE-INFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF ASTM 4.3. C-76; ALL RCP SHALL BE CLASS IV UNLESS OTHERWISE SHOWN. JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-443.
- 5. ALL STORM SEWERS, INLET BASINS AND MANHOLES SHALL BE CLEANED PRIOR TO ACCEPTANCE.

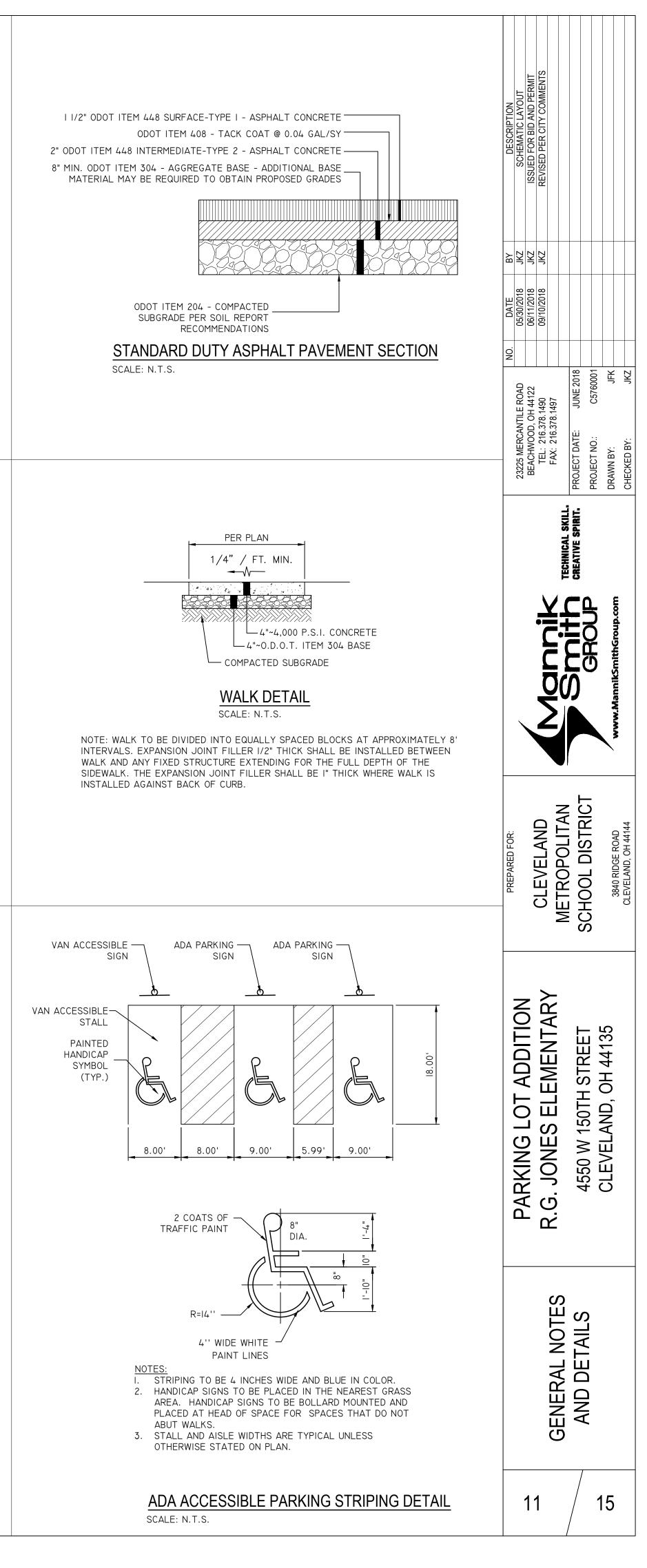
SANITARY UTILITY NOTES

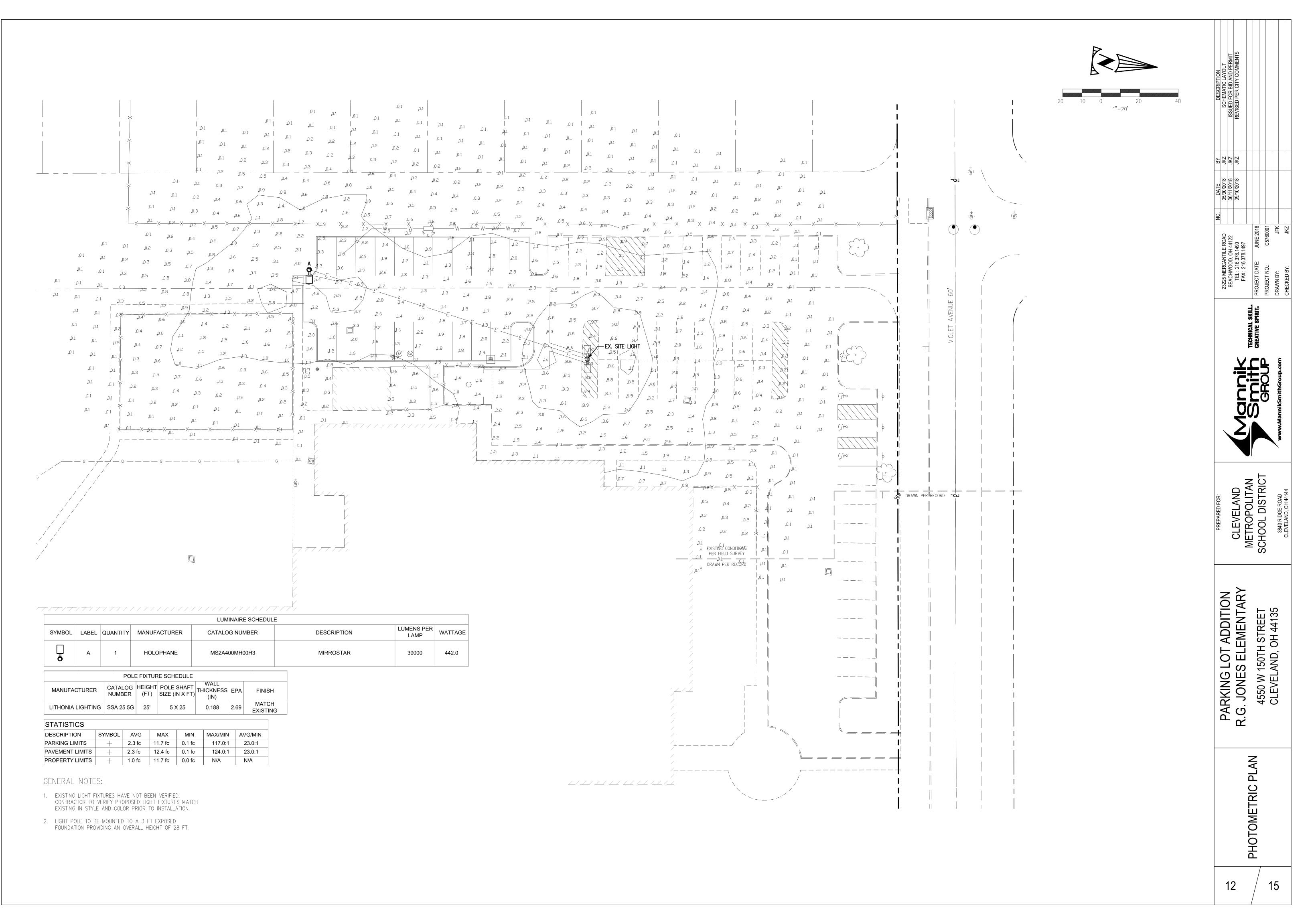
- 1. SANITARY LATERAL SHALL BE A MINIMUM 6" DIAMETER OF PVC PIPE, ASTM D3034 SDR 26 WITH RUBBER GASKET JOINTS OR APPROVED EQUAL. LATERALS SHALL BE CONSTRUCTED WITH A MINIMUM 1% SLOPE, AND HAVE A MINIMUM OF 3 FT. COVER. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 2. MANHOLE SECTION AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.
- 3. TEST FLEXIBLE PIPING FOR DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 95 PERCENT OF PIPING DIAMETER. DEFLECTION OF 5% SHALL NOT BE EXCEEDED.
- 4. TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PERFORM AIR TESTS ON SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH UNI-B-6. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417 AND CONCRETE GRAVITY SEWER PIPING ACCORDING TO ASTM C-924.

5. PERFORM HYDRAULIC TEST IN MANHOLES ACCORDING TO ASTM C-969.

DESCRIPTION	SCHEMATIC LAYOUT	ISSUED FOR BID AND PERMIT	REVISED PER CITY COMMENTS							
NO. DATE BY	05/30/2018 JKZ	06/11/2018 JKZ	09/10/2018 JKZ							
	23225 MERCANTILE ROAD	BEACHWOOD, OH 44122	TEL: 216.378.1490	FAX: 216.378.1497		PROJECT DATE: JUNE 2018	PROJECT NO.: C5760001	DRAWN BY-		CHECKED BY: JKZ
						COLUCIENT CREATIVE SPIRIT.			www.MannikSmithGroup.com	
PREPARED FOR:			CLEVELAND		MEIROPOLIAN				3840 RIDGE ROAD	CLEVELAND, OH 44144
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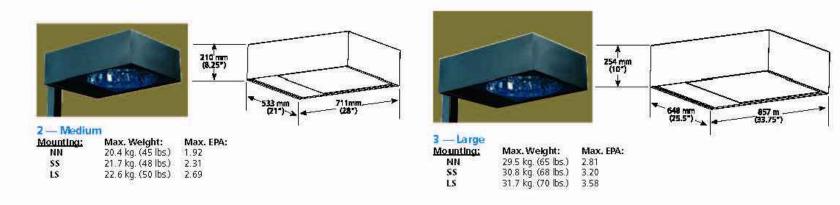




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ORDERING INFORMATION

DIMENSIONAL DETAILS



PERFORMANCE SPECIFICATIONS

Luminaire shall be Holophane MirroStar series, catalog No. MS _____. This fixture shall consist of mounting, optical, support, and electrical systems and will provide certain performance characteristics as follow:

Housing: Housing shall consist of one piece 18 gauge formed aluminum, with smooth welded seams. An 11 gauge galvanized steel reinforcement plate shall be attached to the rear of the housing for added stability.

Door Frame: One-piece heavy duty, 13 gauge formed aluminum, held together with a rigid extruded aluminum riveted frame. Frame shall be fully lined about the perimeter with a high temperature, closed - cell gasket material to provide an insect and dust free interior. Door frame shall be connected to the housing with a continuous hinge that runs the full width of the housing and is secured with five or more screws. Two captive screws shall be used for closure and for easy lamp access.

Lens: 3/16" (1/8" in medium housing) thick clear tempered flat glass shall be attached to the door-frame with RTV.

Exterior: All exterior surfaces shall receive a seven stage cleaning and iron phosphate pretreatment prior to painting. The finish shall be a fade resistant

(color) polyester powder paint baked on to provide a hard, durable coating. Optical System: A fully reflective interior constructed of Miro®4 (enhanced pre-anodized aluminum), minimum of .020" thick, with a specular component of at least 92% and a total reflectivity of 95%. Integrity of the reflective panels is held intact by a continuous band around the central circumference.

Electrical System: The electrical system shall consist of Holophane ballast and components attached to a tray. Tray shall be removable without use of tools. Ballast factor shall be 1.0.

PREFERRED SELECTIONS:

Miro® 4 is a Registered Trademark of Alanod

DISTRIBUTIONS

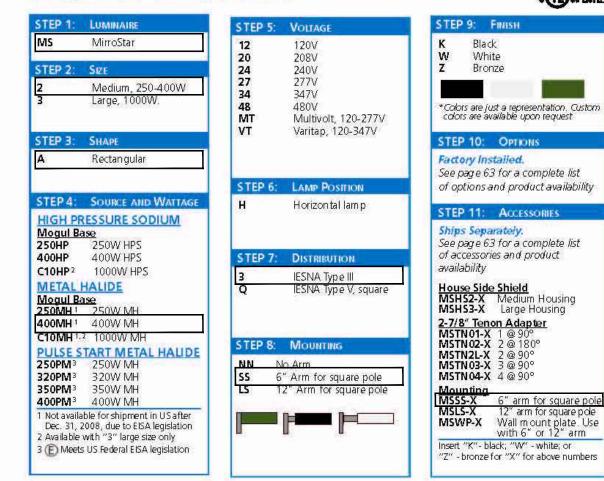
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Square

MS 3 A 320PM 12 H 3 NN K PS 2 3 4 5 6 7 8 9 10 1 Finish K W WATTAGE VOLTAGE LAMP DISTRIBUTIONS 320PM 12 H 3 350PM MT Q MOUNTING NN SS LUMINAIRE MS **БНАРЕ** А OPTIONS PS

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING (Pricing and lead times may be affected) C (L) ES LISTED





FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Check with factory for Canadian specifications. Square Straight Aluminum is a general purpose light pole for up to 35-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

CONSTRUCTION — Pole Shaft: The pole shaft is of uniform wall thickness and is made of extruded 6000 series aluminum alloy tubing that is heat treated to a T6 temper to provide maximum strength. The shaft is uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5", 6" and 6.75".

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. A cast aluminum top cap is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap resists intrusion of moisture and environmental contaminants.

Handhole: A handhole opening with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4" shaft, handhole at 12"; 5" shaft, handhole at 14"; 6" and 6.75" shaft, handhole at 18" on side A. Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole for a pole specified with a 4" or 5" shaft width has a nominal dimension of 2" x 4"; the handhole for a pole specified with a 6" or 6.75" width has a nominal dimension of 2.63" x 5". Anchor Base/ Cover/ Bolts: Anchor base is cast from 356 alloy aluminum and is supplied with 4 nut cover disks. A full 2-piece cast aluminum anchor base cover is available as an option.

Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end.

FINISH — Extra durable painted finish is coated with TGIC (Trigly ddyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes indude Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx **NOTE**: Actual performance may differ as a result of end-user environment and application.

SSA Square Straight Aluminum Poles

SSA					
eries	Nominal fixture mounting height	Nominal shaft base size/wall thickness	Mounting ²	Options	Finish ¹⁰
SSA	8'-35' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	4C 4" (.125") 5C 5" (.125") 5E 5" (.156") 5G 5" (.188") 6E 6" (.156") 6G 6" (.166") 6G 6" (.166") 6G 6" (.188") 7E 7" (.156") 8E 8" (.156") 8G 8" (.1250") 9E 9" (.188") 10G 10" (.250") (See technical information table for complete ordering information.)	Tenon mounting PT Open top T20 $2-3/8"$ 0.D. (2" NPS) T25 $2-7/8"$ 0.D. ($2-1/2"$ NPS) T30 $3-1/2"$ 0.D. ($3"$ NPS) ³ T35 $4"$ 0.D. ($3-1/2"$ NPS) ³ Drill mounting ⁴ DM19 1 at 90° DM28 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° CSX/DSX/AERIS TM /OMERO TM /HLA/KAX Drill mounting ⁴ DM19AS 1 at 90° DM28AS 2 at 180° DM49 4 at 90° CSX/DSX/AERIS TM /OMERO TM /HLA/KAX Drill mounting ⁴ DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM28AS 2 at 180° DM29AS 3 at 90° DM29AS 3 at 90° DM49AS 4 at 90° CSX/DSX/AERIS TM Suspend drill mounting ^{4,5} DMxxAST	Shipped installedL/ABLess an chor bolts (Include when anchor bolts are not needed)VDVibration damperTPTamper proofHAxyHorizontal arm bracket (1 fixture)6.7FDLxyFestoon outlet less electrical6CPL12/xy1/2" coupling6CPL14/xy3/4" coupling6CPL1/xy1/2" threaded nipple6NPL12/xy1/2" threaded nipple6NPL1/xy1" threaded nipple6NPL1/xy1" threaded nipple6EHHxyExtra handhole658MAEXMatch existiing9USPOMUnited States point of manufacture10ULUL listed wit label (Includes NEC compliant cover)NECNEC 410.30 compliant gasketed handhole (Not UL Labeled)Shipped separately (replacement kit available) (blank)BLTCBolt capsFBCFull base cover (spun aluminum) (blank)(blank)HHCHHCHandhole cover	Standard colorsDDBXDDark bronzeDWHWhiteDBLXDBlackDMBMedium bronzeDNANatural aluminumBrushed FinishBABABrushed aluminumClassic colorsClassic colorsDSSSandstoneDGCCharcoal grayDTGTennis greenDBRBright redDSSSteel blueClass 1 architectural anodizedANANaturalArchitectural colors (powder finish) ¹¹

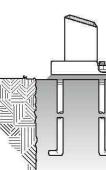
NOTES 1. Wall thickness will be signified by the letter "C", "G" or 6. Specify location and orientation when ordering option.

- "J". C represents a 0.125" thickness, "G" represents a 0.188 thickness and "J" represents a 0.250" thickness. 2. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20.
- The combination includes a required extra handhole. 3. 3-1/2" and 4" 0.D. tenons available on 5" and 6" shafts only.
- 4. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility. Refer to the Anchor Bolt Matrix with Generic Template Link at http://www.acuitybrands.com/-/media/Files/ Acuity/Resources/Tools-and-Documents/Pole%20 Resources/Pole%20Anchorage/Matrix%20Document/ 10. Use when mill certifications are required.
- Insert "1" or "2" to designate fixture size; e.g.

For "x": Specify the height in feet above base of pole. Example: 5ft = 5 and 20ft. 3in = 20-3For "v": Specify orientation from handhole (A.B.C.D) Refer to the Handhole Orientation diagram on this page. Example: 1/2" coupling at 5'8", orientation C:

- SSA 20 4C DM19 CPL12/5-8C DDB 7. Horizontal arm is 18" x 2-3/8" 0.D. tenon standard, with radius curve providing 12" rise and 2-3/8" 0.D. If ordering two
- horizontal arm at the same height, specify with HAxyy. Example: HA20BD 8. Combination of tenon-top and drill mount includes extra handhole. 9. Must add original order number
- 11. Finish must be specified. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3).

			TECHNICA	L INFORMATIO	N — EPA (ft²) v	vith 1.3 gust			
Catalog number	Nominal mount ht. (ft)*	Pole shaft size (in x ft)	Wall thick (in)	80 mph	90 mph	100 mph	Max. weight (lbs)	Bolt size (in. x in. x in.)	Approximate ship (Ibs.)
SSA 8 4C	8	4.0 x 8.0	0.125	16.5	12.6	9,9	300	3/4 x 18 x 3	32
SSA 10 4C	10	4.0 x 10.0	0.125	11.5	8.6	6.5	230	3/4 x 18 x 3	37
SSA 12 4C	12	4.0 x 12.0	0.125	12.4	9.2	6.9	160	3/4 x 18 x 3	40
SSA 14 4C	14	4.0 x 14.0	0.125	9.3	6.7	4.8	120	3/4 x 18 x 3	50
SSA 15 4C	15	4.0 x 15.0	0.125	8	5.6	3.9	100	3/4 x 18 x 3	52
SSA 16 4C	16	4.0 x 16.0	0.125	6.9	4.7	3.1	90	3/4 x 18 x 3	54
SSA 16 4G	16	4.0 x 16.0	0.188	11.8	8.5	6.2	130	3/4 x 30 x 3	74
SSA 16 5G	16	5.0 x 16.0	0.188	15	11.1	7.5	280	3/4 x 30 x 3	83
SSA 18 4C	18	4.0 x 18.0	0.125	4.9	3	1.7	70	3/4 x 18 x 3	57
SSA 18 4G	18	4.0 x 18.0	0.188	9.2	6.4	4.4	100	3/4 x 30 x 3	80
SSA 18 5G	18	5.0 x 18.0	0.188	16.8	12.2	8.9	230	3/4 x 30 x 3	91
SSA 20 4C	20	4.0 x 20.0	0.125	3.3	1.7	0.5	40	3/4 x 18 x 3	62
SSA 20 4G	20	4.0 x 20.0	0.188	7	4.6	2.9	80	3/4 x 30 x 3	85
SSA 20 5G	20	5.0 x 20.0	0.188	13.6	9.5	6.6	180	3/4 x 30 x 3	107
SSA 20 6G	20	6.0 x 20.0	0.188	22	15.9	11.6	230	1 x 36 x 4	155
SSA 20 6J	20	6.0 x 20.0	0.25	30.4	22.6	17	300	1 x 36 x 4	202
SSA 25 5G	25	5.0 x 25.0	0.188	7.2	4.2	2	110	3/4 x 30 x 3	130
SSA 25 6G	25	6.0 x 25.0	0.188	13.2	8.6	5.4	180	1 x 36 x 4	180
SSA 25 6J	25	6.0 x 25.0	0.25	19.7	13.8	9.5	250	1 x 36 x 4	224
SSA 30 6G	30	6.0 x 30.0	0.188	7	3.4	0.8	130	1 x 36 x 4	210
SSA 30 6J	30	6.0 x 30.0	0.25	12.2	7.5	4.1	170	1 x 36 x 4	258
SSA 32 6J	32	6.0 x 32.0	0.25	9.7	5.4	2.3	160	1 x 36 x 4	272
SSA 35 6J	35	6.0 x 35.0	0.25	6.4	2.6	12	200	1 x 36 x 4	294
SSA 35 7J	35	6.75 x 35.0	0.25	7.6	3.1		150	1 x 36 x 4	290



HANDHOLE ORIENTATION

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F	₽ land	\ Ihole

AnchorBoltMatrix.pdf?la=en DM19AST2.

OUTDOOR: One Lithonia Way Convers, GA 30012 Phone: 770-922-9000 www.lithonia.com

A LITHONIA LIGHTING

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POLE-SSA

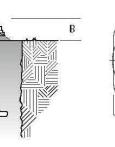
Anchor Base Poles SQUARE STRAIGHT ALUMINUM

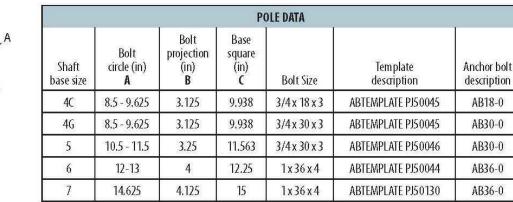
Specifications subject to change without notice.

SSA

SSA Square Straight Aluminum Poles

*EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.





Default DM19 is on side B.

A LITHONIA LIGHTING

OUTDOOR: One Lithonia Way Convers, GA 30012 Phone: 770-922-9000 www.lithonia.com

IMPORTANT INSTALLATION NOTES:

due to failure to use factory template.

• **Do not** erect poles without having fixtures installed.

• Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement

If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

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POLE-SSA

Anchor bolt

description

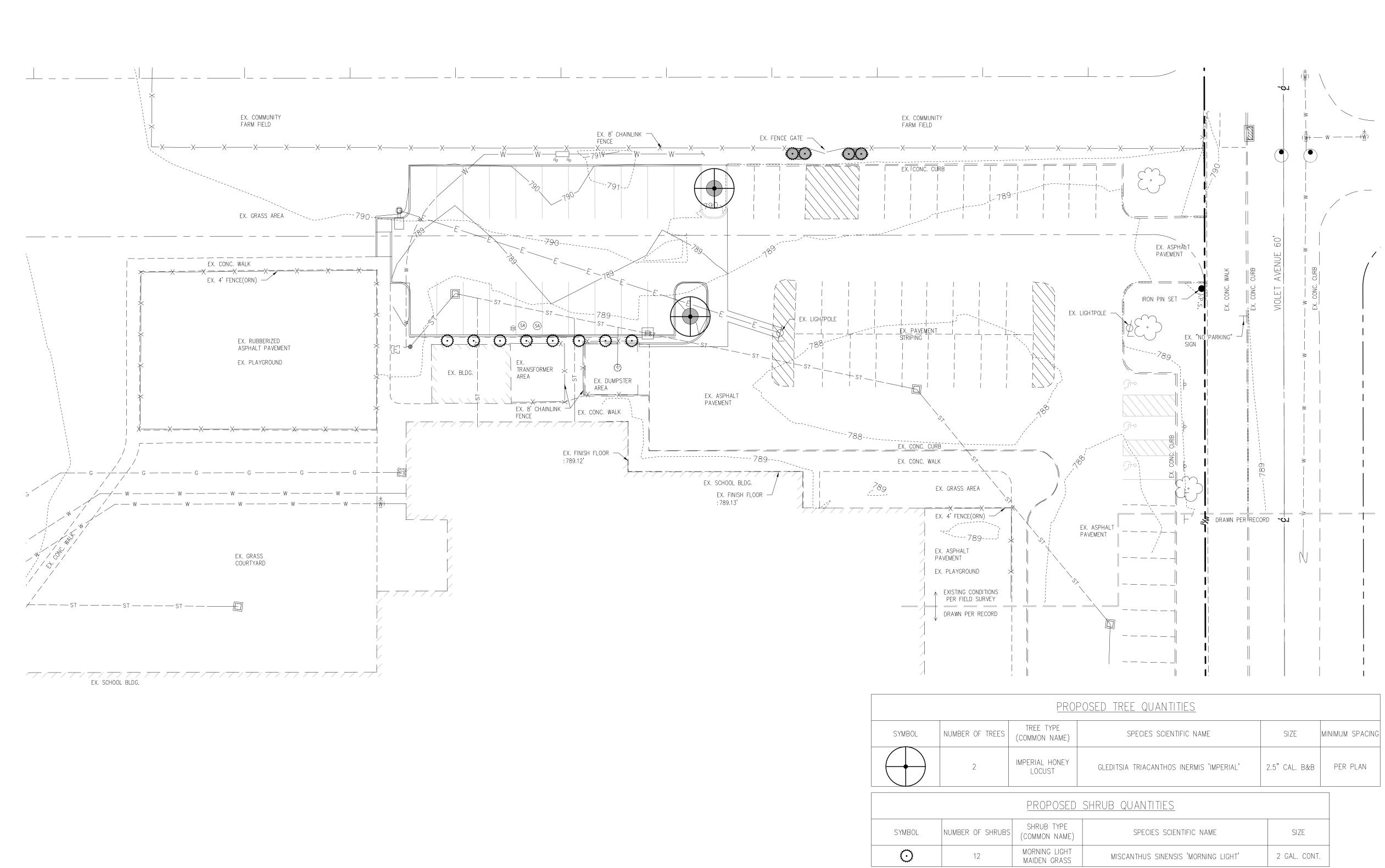
AB18-0

AB30-0

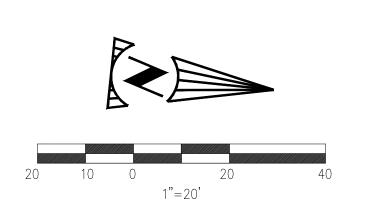
AB30-0

AB36-0

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			CI EVELAND OH 44144					



NUMBER OF TREES	TREE TYPE (COMMON NAME)	SPECIES SCIENTIFIC
2	IMPERIAL HONEY LOCUST	gleditsia triacanthos iner
	PROPOSED	SHRUB QUANTITIES
NUMBER OF SHRUBS	SHRUB TYPE (COMMON NAME)	SPECIES SCIENTIFIC
12	MORNING LIGHT MAIDEN GRASS	MISCANTHUS SINENSIS 'M
PROPOSED	<u>Mulch and s</u>	EEDING
COMMON NAME		DESCRIPTION
HARDWOOD MULCH BED	DOUBLE PROCESSE) BE MULCHED WITH BLACK DYED D SHREDDED HARDWOOD MULCH. E EDGING DETAIL.
	2 NUMBER OF SHRUBS 12 PROPOSED COMMON NAME HARDWOOD MULCH	NUMBER OF TREES (COMMON NAME) 2 IMPERIAL HONEY LOCUST 2 PROPOSED NUMBER OF SHRUBS SHRUB TYPE (COMMON NAME) 12 MORNING LIGHT MAIDEN GRASS PROPOSED MULCH AND S COMMON NAME PLANTING AREA TO DOUBLE PROCESSE



DESCRIPTION SCHEMATIC LAYOUT	ISSUED FOR BID AND PERMIT	REVISED PER CITY COMMENTS					
DATE BY 05/30/2018 JKZ		09/10/2018 JKZ					
ON			FAX: 216.378.1497	PROJECT DATE: JUNE 2018	PROJECT NO.: C5760001	DRAWN BY: JFK	CHECKED BY: JKZ
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PREPARED FOR:		CLEVELAND				\	
			METRODOLITAN			\	
		CLEVELAND					CLEVELAND, OH 44144

GENERAL LANDSCAPE NOTES

- 1. THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PLANTS AND VEGETATION PROPOSED WITHIN THE LANDSCAPING PLAN. ANY TREES, SHRUBS, GROUND COVER OR OTHER VEGETATION PLANTED AS PART OF THIS PROJECT THAT DO NOT SURVIVE ONE YEAR FROM PLANTING SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES 3 WORKING DAYS IN ADVANCE OF ANY DIGGING. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF ANY UTILITIES.
- 3. REFER TO THE LANDSCAPE SCHEMATIC PLAN FOR ADDITIONAL NOTES. LANDSCAPE IMPROVEMENTS SHALL CONFORM TO THE LATEST EDITION OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND CITY OF CLEVELAND ORDINANCES.
- 4. ALL PLANTING MATERIALS: SHALL BE PLANTED PER ODOT CMS ITEM 661. EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE BROKEN, LOW HANGING AND OTHER UNDESIRABLE GROWTH TO ENSURE HEALTHY AND SYMMETRICAL NEW GROWTH. REFER TO ODOT DRAWING LA-1.1 FOR TREE PRUNING DETAILS AND ODOT ITEM 666 FOR PRUNING SPECIFICATIONS.
- 5. 661.10 PLANTING BEDS. ONE MONTH BEFORE CULTIVATION AND AFTER DAYTIME TEMPERATURES HAVE WARMED TO 60° CONSISTENTLY, TREAT ALL PLANTING BEDS THAT ARE TO BE DEVELOPED IN AREAS OF EXISTING TURF WITH PRE-EMERGENT AND POST-EMERGENT TYPE HERBICIDES. USE A STATE-LICENSED PESTICIDE APPLICATOR TO APPLY THE HERBICIDE. REPEAT HERBICIDE APPLICATION TWO WEEKS LATER AND UNTIL ALL HERBACEOUS MATERIALS HAVE BEEN KILLED. BEFORE PLANTING, TOP DRESS ALL PLANTING BEDS WITH A MINIMUM OF 12 INCHES OF BACKFILL MIX, THEN CULTIVATE PLANTING AREA TO A DEPTH OF 6 INCHES USING A PLOW, DISC, OR ROTO-TILLER.
- 661.11 BACKFILL MIX. FOR ALL PLANTINGS, USE BACKFILL MIX CONSISTING OF THE FOLLOWING: 6. A. ONE PART TOPSOIL. B. ONE PART EPA RATED CLASS IV COMPOST. C. A SLOW RELEASE COMMERCIAL FERTILIZER (0-20-20 OR EQUAL) ADDED AT A RATE OF 5 POUNDS PER CUBIC YARD (3 KG/M3) TO THE BACKFILL MIX. D. IF SOIL AREAS ARE OF HIGH PH (GREATER THAN 6.5), APPLY 1.25 POUNDS OF ELEMENTAL SULFUR PER CUBIC YARD OF BACKFILL MIX. NOTE: CONTRACTOR SHALL SUPPLY A DETAILED SOIL ANALYSIS PRIOR TO ALL PLANT BED PREPARATION. ANALYSIS SHALL INDICATE SOIL PH, TEXTURE, MAJOR NUTRIENTS, SALTS, ETC. SOIL ANALYSIS SHALL BE FROM A REPUTABLE, INDEPENDENT LAB. SOIL AMENDMENTS SHALL BE INCORPORATED INTO BACKFILL/ PLANT MIX AS RECOMMENDED BY THE INDEPENDENT LAB.
- 7. 661.13 MULCH. SMOOTH AND SHAPE THE BACKFILL MIX TO FORM A SHALLOW BASIN SLIGHTLY LARGER THAN THE PLANTING HOLE. MULCH THESE AREAS WITH A 3-INCH (100 MM) LAYER OF FINELY SHREDDED HARDWOOD BARK OF UNIFORM TEXTURE & SIZE. USE SHREDDED HARDWOOD BARK AGED MIN. ONE YEAR. RAKE AND SMOOTH THE ENTIRE AREA OF THE PLANTING BEDS, MULCH TO A DEPTH OF 3 INCHES. AFTER MULCHING AND BEFORE WATERING, ADD A SLOW RELEASE COMMERCIAL FERTILIZER (12-12-12 OR EQUAL), IN GRANULAR FORM, TO THE TOP OF THE MULCH AT A RATE OF 5 POUNDS PER 100 SQUARE FEET. DO NOT ALLOW FERTILIZER TO CONTACT THE STEMS, BRANCHES, ROOTS OR LEAVES.
- 661.17 PERIOD OF ESTABLISHMENT. BEFORE FINAL INSPECTION, PLACE ALL PLANTS AND CARE FOR THEM FOR A PERIOD OF ESTABLISHMENT. THE PERIOD OF ESTABLISHMENT BEGINS IMMEDIATELY UPON COMPLETION OF THE PLANTING OPERATIONS AND CONTINUES UNTIL OCTOBER 1. THE MINIMUM PERIOD OF ESTABLISHMENT IS ONE GROWING SEASON, JUNE 1 THROUGH OCTOBER 1.DURING THE PERIOD OF ESTABLISHMENT, FOLLOW STANDARD HORTICULTURAL PRACTICES TO ENSURE THE VIGOR AND GROWTH OF THE TRANSPLANTED MATERIAL. WATER, REMULCH, RESTAKE, GUY, AND CULTIVATE AS NECESSARY. PERFORM AT LEAST TWO WEEDING AND MOWING PROGRAMS (AROUND TREES, GUY STAKES, SHRUBS, AND BED EDGES) OF SUCH INTENSITY AS TO COMPLETELY RID THE PLANTED AND MULCHED AREAS OF WEEDS AND GRASSES. BEGIN THE FIRST PROGRAM ON OR ABOUT JUNE 15 AND THE SECOND APPROXIMATELY 8 WEEKS LATER. ON OR ABOUT AUGUST 15, THE ENGINEER WILL INSPECT THE PLANTING AND SUPPLY THE CONTRACTOR WITH A LIST OF MISSING AND DEAD PLANTS AND THOSE THAT HAVE DIED BACK BEYOND NORMAL PRUNING LINES. REPLANT AS REQUIRED ACCORDING TO THE SPECIFICATIONS OF THE ORIGINAL MATERIAL. REPLACEMENT PLANTS ARE SUBJECT TO A NEW PERIOD OF ESTABLISHMENT. IMMEDIATELY REPLACE PLANTS PLANTED INITIALLY IN THE FALL THAT HAVE DIED BEFORE THE SPRING PLANTING SEASON. CARE FOR THE REPLACEMENT PLANTS DURING THE NEW ESTABLISHMENT PERIOD.
- 9. RESTORATION OF DISTURBED AREAS: ALL LANDSCAPE AREAS DISTURBED BY CONTRACTOR OPERATIONS SHALL BE PREPARED FOR GRASS SEED. LOOSEN RUTS AND WORK THE SOIL AREAS TO A MINIMUM OF 12" DEEP PRIOR TO FINE GRADING AND SEEDING WORK. AREAS TO RECEIVE GRASS SEED SHALL HAVE A MIN. 4" TOPSOIL PLACED, SEEDED AND A STRAW/MULCH BLANKET COVER PLACED OVER THE SEEDED AREAS PER ODOT SPECIFICATIONS.
- LANDSCAPE TREES, SHRUBS AND PERENNIAL WATERING: 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, DELIVERING, APPLYING, MEASURING AND SCHEDULING A SUFFICIENT AMOUNT OF WATER NECESSARY TO KEEP EACH PLANT IN A HEALTHY GROWING CONDITION THROUGHOUT THE PERIOD OF ESTABLISHMENT. THE CONTRACTOR SHALL APPLY 1" OF WATER PER WEEK TO ALL NEW PLANTS. THE CONTRACTOR SHALL INSTALL & MAINTAIN SUPPLEMENTAL DRIP WATERING TREE BAGS (SUCH AS 20 GALLON TREE GATOR WATER BAG) TO PROVIDE ADEQUATE, SLOW RELEASE OF WATER. WATER BAGS SHALL BE REMOVED AT THE END OF THE SECOND GROWING SEASON.
- 11. TOPSOILING SHALL CONFORM TO ITEM 651 (TOPSOIL STOCKPILED), ITEM 652 (PLACING STOCKPILED TOPSOIL), ITEM 653 (TOPSOIL FURNISHED AND PLACED) AND 654 (RENOVATING EXISTING SOIL)TOPSOIL PLACEMENT MAY BE PLACED WITH HYDROSEEDING, REFER TO ITEM 659.11 FOR ADDITIONAL SPECIFICATIONS.
- 12. TURF GROUNDCOVER (SODDING, SEEDING AND SEED MULCHING): ALL SEEDING INSTALLATION SHALL CONFORM TO ODOT ITEM 653 (TOPSOIL FURNISHED AND PLACED) AND ITEM 659 (SEEDING AND MULCHING). SEED AT 6 LBS/1000 SF WITH THE FOLLOWING SEED MIXTURE: TITAN TALL-TYPE TURF FESCUE 70% SR 4100 PERENNIAL RYEGRASS 20% 10%

MERIT KENTUCKY BLUEGRASS

REFER TO ITEM 659.12 FOR SEEDING METHODS AND DATES FOR BROADCAST AND HYDRO SEEDING METHODS. REFER TO ITEM 660 FOR SODDING MATERIALS, PREPARATION AND PLACEMENT.

EQUAL HEIGHT

MOUNDED EARTH SAUCER FORM & MULCH BEYOND PLANTING PIT

LOOSEN SUB-SOILS

TWINE AND ROPE FROM UPPER BALL IN PLANTING MIX

PLANTING BED -EDGE TREATMENT, REFER TO PLANS

NOTE:

NOTE:

