FRP CINCINNATI STUDENT HOUSING 1001 MARSHALL AVE, CINCINNATI, OH 45225





OWNER/DEVELOPER:

FOUNTAIN RESIDENTIAL PARTNERS 2626 COLE AVENUE SUITE 620 DALLAS, TX 75204 PHONE: 972.861.5082

ZONING ARCHITECT: ELEVAR DESIGN GROUP CINCINNATI 555 CARR STREET

CINCINNATI, OHIO 45203 PHONE: 513.721.0600

ARCHITECT:

PHONE: 214.659.902

STUART I. ROOSTH ARCHITECT 11615 FOREST CENTERAL DR. SUITE 104 DALLAS, TX 75243 PHONE: 972,863,3882

M.E.P. ENGINEER:

BASHARKHAH ENGINEERING, INC. 13101 PRESTON ROAD SUITE 601 DALLAS, TEXAS 75240

CIVIL ENGINEER:

CHOICE ONE ENGINEERING 8956 GLENDALE MILLEORD RD LOVELAND, OHIO 45140 PHONE: 513.239.8554

STRUCTURAL ENGINEER: STRAND SYSTEMS ENGINEERING INC.

10003 TECHNOLOGY BLV. W.

DALLAS, TX 75220 PHONE: 972.620.8204

INTERIOR DESIGNER

SOSO NORTH CENTRAL EXPWY SUITE 705 DALLAS, TX 75206 PHONE: 214.812.9056

LANDSCAPE ARCHITECT

CHOICE ONE ENGINEERING 8956 GLENDALE MILFORD RD. SUITE 1 LOVELAND, OHIO 45140 PHONE: 513.239.8554

LOCATION MAP



VICINITY MAP



A7.00

INDEX	
SHEET NUMBER	DESCRIPTION
A 0.00 A 1.00	COVER SHEET AND INDEX ARCHITECTURAL SITE PLAN
A2.00	TYPICAL UNIT PLANS
BLDG. 1 A3.01 A3.02 A3.03 A3.04	BUILDING I FLRS 1, 2, & 3 BUILDING I FLR 4 & ROOF PLAN BUILDING I ELEVATIONS BUILDING I RENDERINGS
BLDG. 2 A4.01 A4.02 A4.03 A4.04	BUILDING 2 FLRS 1, 2, & 3 BUILDING 2 FLR4 & ROOF PLAN BUILDING 2 ELEVATIONS BUILDING 2 RENDERINGS
BLDG. 3 A 5.01 A 5.02 A 5.03 A 5.04	BUILDING 3 FLRS 1, 2, & 3 BUILDING 3 FLR 4 & ROOF PLAN BUILDING 3 ELEVATIONS BUILDING 3 RENDERINGS
A 6.01	CLUB PLAN, ROOF, AND ELEVATIONS

COLOR SITE PLAN

FOUNTAIN RESIDENTIAL PARTNERS

DALLAS, TX 75243 214-868-9858 ROOSTH KRCHITECT CENTRAL DR *104. D -863-3882 CELL ; STUART FOREST (

HALLMAR CENTRAL PARK CINCINNATI OHIO

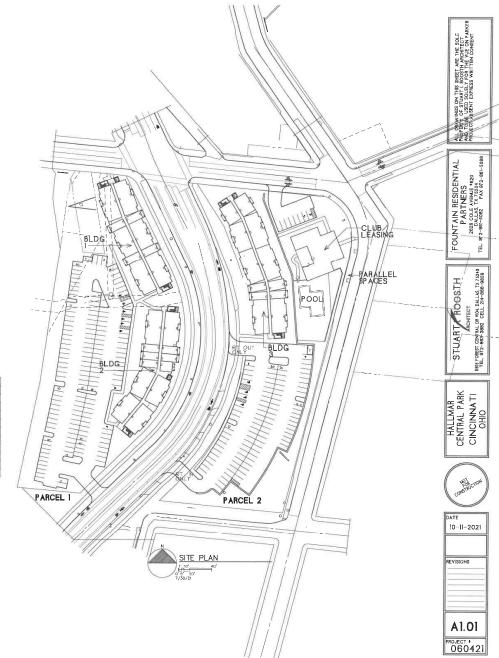


10-11-2021

REVISIONS

A 0.00

060421



UNIT TYPE	UNITS/FLR	BEDS	TOTAL UNITS	TOTAL BEDS	NET SF	GROSS SF	TOTAL NET	TOTAL GROSS
S1	12	1	48	48	360	452	17.280	21,696
S2	1	1	4	4	473	550	1,892	2,200
S3	1	1	4	4	371	450	1,484	
B1	2	2	8	16	847	944	6,776	
D1	7	4	28	112	1,317	1,437	36,876	
E1	9	5	36	180	1,598	1.727	57.528	
E2	2	5	8	40	1551	1677	12,408	
SUBTOTAL	34		136	404			134,244	149,072
CORRIDOR								21,231
STAIRS								5,772
TOTAL SITE :	1 AND 2		PARKING	252	62 37%			176.075



1885 FOREST CENTRAL DR 9104, DALLAS, TX 75243 TEL. 972-863-3882 CELL 214-868-9858

ALL DRAWINGS ON THIS SHEET ARE THE SOLE PROPERTY OF STUMINIE IN FORTH, WORTHEVEN PROJECT ASSENT EXPRESS WHITTEN CONSENT

ARCHITECT
11615 FOREST CENTRAL DR #104 DALLAS, TX 75243
TEL. 872-863-3882 CELL 2:4-868-9858 STUART ROOSTH

HALLMAR CENTRAL PARK CINCINNATI OHIO



DATE 10-11-2021

REVISIONS

A3.01

PROJECT • 060421

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FOUNTAIN RESIDENTIAL
PARTNERS
2226 COLE AVENUE 220
DALLAS, TX 72504
TEL 972-961-5088

ARCHITECT
IIBIS FOREST CENTRAL DR \$104. DALLAS, TX 75243
TEL 872-863-3882 CELL 214-868-9858 STUART, ROOSTH

HALLMAR CENTRAL PARK CINCINNATI OHIO



DATE 10-11-2021

REVISIONS

A3.02

PROJECT * 060421





2 BUILDING I WEST ELEVATION





ARCHITECT

(REST CENTRAL DR *104, DALLAS, TX 75243

TEL. 972-863-3852 CELL 214-868-8858 STUART

FOUNTAIN RESIDENTIAL
PARTNERS
2008 COLIE AVENUE *020
DALLAS. TX 52040
TEL. 8172-881-5082

ALL DRAWINGS ON THIS SHEET ARE THE SOLE PROPERTY OF STLUKHT ROSSTH ARCHITECT AND TO BE USED SOLELY FOR THE VUE ON PARKER PROJECT ABSENT EXPRESS WRITTEN CONSINT

HALLMAR CENTRAL PARK CINCINNATI OHIO

CONSTRUCTION

10-11-2021 REVISIONS

A3.03 PROJECT • 060421





ALL DRAWINGS ON THIS SHEET ARE THE SOLE
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PROPERTY OF STUART IN ROSTH ARCHITECT
PROJECT ABSENT EXPRESS WRITTEN CONSENT

FOUNTAIN RESIDENTIAL
PARTNERS
PARTNERS
COLE AND TAXTSON
TEL. 972-861-5086

STUART ROOSTH
REALTH ROOSTH
TEL 972-883-3882 CEL 21-888-3888

HALLMAR CENTRAL PARK CINCINNATI OHIO



DATE 10-11-2021

A 3.04 PROJECT * 060421

ALL DRAWINGS ON THIS SHEET ARE THE SOLE PROPERTY OF STUART IS ROOS'H ARCHITECT AND TO BE USED SOLELY FOR THE YUE ON PARKER PROJECT ABSENT EXPRESS WRITTEN CONSENT

FOUNTAIN RESIDENTIAL
PARTNERS
2888 COLE WENE #820
DALLAS, TY 72598
TEL 972-881-5082

STUART, ROOSTH MOHITEL BY TERM IN HALLS TY 2249 TEL BY 2-865-382, CELL 21-386-855

HALLMAR CENTRAL PARK CINCINNATI OHIO

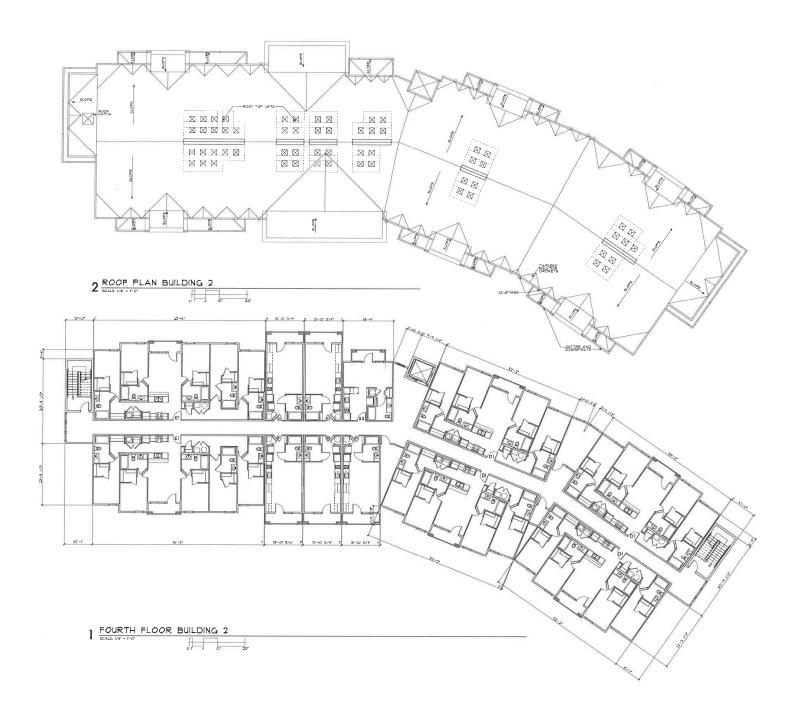


DATE 10-11-2021

REVISIONS

A4.01

PROJECT • 060421



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PROPERTY OF STUARTY FOR THE WOON PARKER
AND TO BE USED SOLE I, FOR THE WO ON PARKER
PROJECT ABSENT EXPRESS WRITTEN CONSENT.

FOUNTAIN RESIDENTIAL
PARTNERS
228 COLE NEME 1820
TEL. 972-881-5058

STUART, ROOSTH ROHER CREST CENTRAL DR FOA DALLAS TX 72243 TEL. 872-863-3685 CELL 214-898-9858

HALLMAR CENTRAL PARK CINCINNATI OHIO



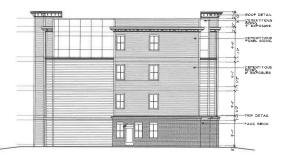
DATE 10-11-2021

REVISIONS

A4.02 PROJECT * 060421 $1 \xrightarrow[\text{SCALE}, \text{ } \text{ } \text{IPS}]{\text{ELEVATION BUILDING 2}}$



2 WEST ELEVATION BUILDING 2



3 NORTH ELEVATION BUILDING 2



ALL DRAWINGS ON THIS SHEET ARE THE SOLE PROPERTY OF STUDART IN ROOSTH ARCHITECT PATO BE USED SOLELY FOR THE VUE ON PARKER PROJECT ABSENT EXPRESS WRITTEN CONSENT

FOUNTAIN RESIDENTIAL
PARTNERS
2005 COLE AVENUE 1020
DALLAS, TX 52040
TEL, 872-861-5080

STUART ROOSTH
ACHTECT
RECEIVED IN 100 DALLAS TX 72348
TEL 872-883-3882 CEL 21+888-3839

HALLMAR CENTRAL PARK CINCINNATI OHIO



DATE 10-11-2021

REVISIONS

A4.03

PROJECT * 060421



ARCHITECT
II815 FOREST CENTRAL DR 1104, DALLAS, TX 75243
TEL 872-863-3892 CELL 214-888-9858 STUART, ROOSTH

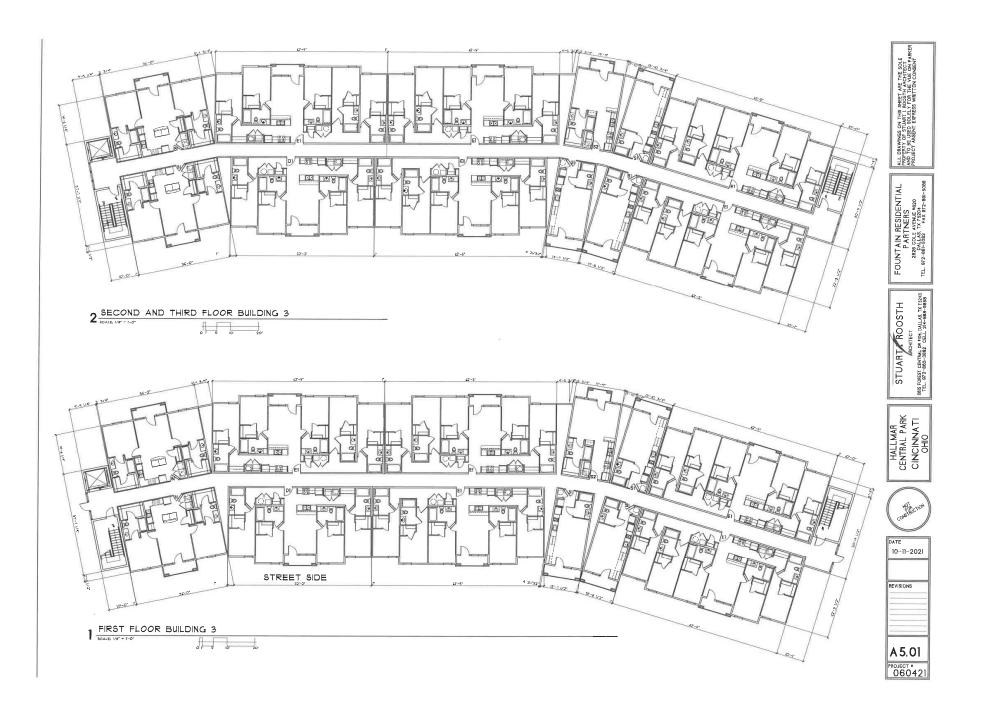
HALLMAR CENTRAL PARK CINCINNATI OHIO

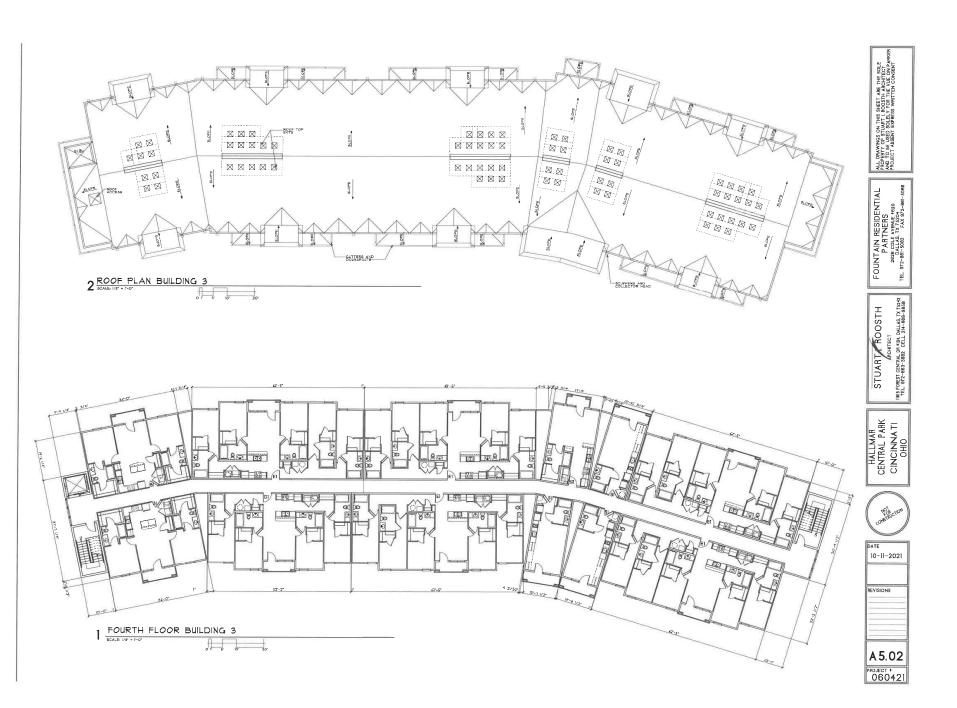


DATE 10-11-2021

REVISIONS

A 4.04 PROJECT * 060421







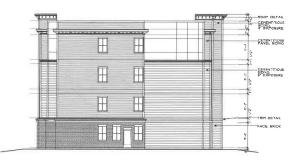
1 BUILDING 3 STREET SIDE (WEST) ELEVATION



2 BUILDING 3 EAST ELEVATION



3 BUILDING 3 NORTH ELEVATION



4 BUILDING 3 SOUTH ELEVATION

ALL DRAWINGS ON THIS SHEET ARE THE SOLE PROPERTY OF STUART! ROOSTH ARCHITECT AND TO BE USED SOLELY FOR THE VUE ON PARKER PROJECT ASSENT EPPESS WHITTEN CONSENT

FOUNTAIN RESIDENTIAL
PARTNERS
2024 COLE AUGUE 6200
DALLA TX75004
TEL 972 981-5082
FAX 972-981-5086

ARCHITECT CENTRAL DR *104, DAILLAS, TX 75243 863-3882 CELL 214~888-9858 STUART HBIS FOREST (TEL. 972-6

HALLMAR CENTRAL PARK CINCINNATI OHIO



10-11-2021

REVISIONS

A 5.03 PROJECT : 060421



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STUART ROOSTH
FOUNT AIN RESIDENTIAL
PARTNERS
2826 CGLG NYESSE 120
TEL 872-881-5802 CELL 21+885-9839

HALLMAR CENTRAL PARK CINCINNATI OHIO

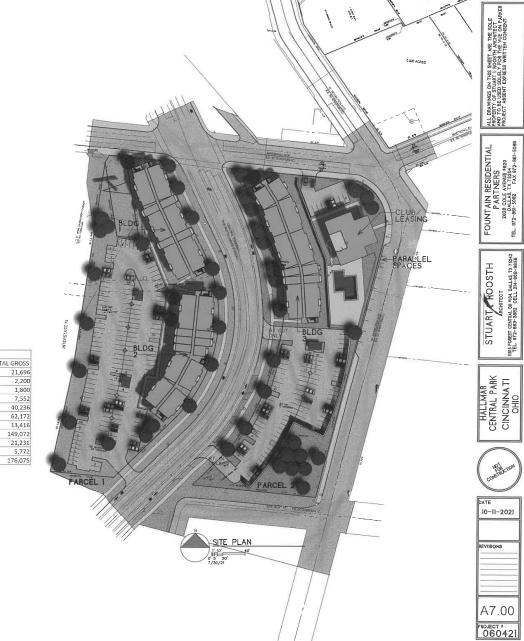


DATE 10-11-2021

REVISIONS

A 5.04 PROJECT * 060421





UNIT TYPE	UNITS/FLR	BEDS	TOTAL UNITS	TOTAL BEDS	NET SF	GROSS SF	TOTAL NET	TOTAL GROSS
51	12	1	48	48	360	452	17,280	21,698
S2	1	1	4	4	473	550	1,892	2,200
S3	1	1	4	4	371	450	1,484	1,800
B1	2	2	8	16	847	944	6,776	7,552
D1	7	4	28	112	1,317	1,437	36,876	40,236
E1	9	5	36	180	1,598	1,727	57,528	62,172
E2	2	5	8	40	1551	1677	12,408	13,416
SUBTOTAL	34		136	404			134,244	149,072
CORRIDOR								21,231
STAIRS								5,772
TOTAL SITE 1	LAND 2		PARKING	252	62.37%			176.075





VICINITY MAP

UNDERGROUND UTILITIES Contact Two Working Days Before You Dig OHIO811.org Before You'd OHIO811.8-1-1. or 1-800-362-2764 (Non-members must be called directly)

| GREATER CINCINNATI WATER WORKS | STANDARD CONSTRUCTION DRAWINGS | SPECIFICATIONS | SPECIFICAT

HALLMAR STUDENT HOUSING

CITY OF CINCINATTI HAMILTON COUNTY, OHIO

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440 E. HOEWISHER ROAD | SIDNEY, OHIO 45365 | 937.497.0200 8956 GLENDALE MILFORD ROAD, SUITE 1 | LOVELAND, OHIO 45140 | 513.239.8554

www.CHOICEONEENGINEERING.com

NOVEMBER 3, 2021

	11-3-2021
MICHAEL L. SEEGER, P.E.	DATE
P.E#81748	

THE CONSTRUCTION STANDARDS AND DRAWINGS OF THE CITY OF CINCINATTI AND THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO EPPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND GENERAL NOTES LISTED IN THE PLAN, SHALL COVERN THIS IMPROVEMENT. THE MOST RESTRICTIVE SHALL APPLY,

2019 SPECIFICATIONS

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION A NEW BUILDING AND ASSOCIATED DRIVES AND PARKING FOR THE HALLMAR STUDENT HOUSING, LOCATED ON CENTRAL PARKWAY WITHIN THE CITY OF CINCINNATI. SITE WORK TO INCLUDE STORM SEWER, SANITARY SEWER, WATER, SITE GRADING, PAVEMENT WORK AND BUILDING CONSTRUCTION.

Approved _		
Date	AUTHORIZED SIGNATURE	

PEVISIONS

ChoiceOne

HOUSIN

STUDENT

FILE NAME
TITLE SHEET
DRAWN BY
JMK
CHECKED BY
MLS
PROJECT NO.
HAMCIN2107
SHEET NUMBER

1 OF 29

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF CINCINNATI STANDAROS AND SECRIFICATIONS AND/FOR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY OF CINCINNATI.

UNDERGROUND UTILITIES

HE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE LANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS SOURCED BY SECTION 153.54 ORC. EXISTING UTILITIES ARE SHOWN IN THE APPROVING TO LOCATION ACCOUNTY OF THE PROPERTY. THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM, CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS: MSD OF GREATER CINCINNATI 1600 CEST STREET CINCINNATI, OHIO 45204

(513) 557-7188 ATTN: ROBERT FRANKLIN

GAS DUKE ENERGY 139 EAST FOURTH STREET P.O. BOX 960, RM 460 CINCINNATI, OHIO 45202 (513) 287-4653 ATTN: RICHARD HACKER

ELECTRIC
DUKE ENERGY
2010 DANA AVENUE
ROOM EF 324
CINCINNATI, OHIO 45207
(513) 458-3856
ATIN: AARON WRIGHT

CABLE CHARTER COMMUNICATIONS

11252 CORNELL PARK DRIVE CINCINNATI, OHIO 45242

(513) 386-5483 ATTN: JIM O'REILLY

STORM SEWER
STORM STORM ATER MANAGEMENT UTILITY
4747 SPRING GROVE AVENUE
CINCINNATI, OHIO 45232 (513) 581-0893 ATTN: ROB GOODPASTER

GREATER CINCINNATI WATER WORKS 4747 SPRING GROVE AVENUE CINCINNATI, OHIO 45232

TELEPHONE CINCINNATI BELL 221 E. 4TH STREET CINCINNATI, OHIO 45202 (513) 566-5120 ATTN: JOHN STRAUSS

TELEPHONE 221 E. 4TH STREET CINCINNATI, OHIO 45202

(513) 566-5120 ATTN: JOHN STRAUSS OHIO UTILITIES PROTECTION SERVICE 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

UTILITY INTERFERENCE

UTILITY INTERFERENCE

15, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EMISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS REEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE, NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE SPEAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HANNO WIRES, POLES OF PHES, CONCUST, MARHOLES, NO THEIR STRUCTURES THAT MAY BE ARE LED BY THIS OFERATION, HOUSING, ALL PUBLIC AND THE CONTRACTOR OF THE PLANS.

EXISTING TILE HOOKUPS

THE DRAINAGE THE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER, ANY DRAINAGE THE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS BT THE CONTRACTOR TO A CONTROL TO OR BETTER HAN IT CRIGINAL CONDITION. ALL TILL REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD BRAWINGS AND SHALL BE INSPECTED BY THE CITY OF CINCINNATI BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF CINCINNATI. PLUGGEL AS APPROVED AND DIRECTION OF THE CITY OF CONONNATION. CONNECTION OF INTERSECTIONS AND THE PROPOSED STORM SEVER SHALL BE THROUGH MANUFACTURED TEST, UNITED STORMING APPROVED BY THE CITY OF GINGINNATI. COST OF THIS TERM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM, BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

CROSSINGS AND CONNECTIONS TO **EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEVER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED. CONDUIT

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, CITY OF CINCINNAIL SHALL BE NOTHED BEFORE STARTING CONSTRUCTION OF ANY PORTON OF THE PROPOSEDE CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, CITY OF CINCINNATI SHALL BE, NOTHED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EMISTING FACILITY, COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOX THE

MUD

THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOL SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT

THE UNDERGROUND UTLITES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENONINEERING CORPORATION MAKES MO GUARANTEES THAT THE UNDERGROUND UTLITES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA ETHER. IN-SERVICE OF ABANDONSE, CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTLITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, CHOICE ONE ENOINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTLITIES.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/LISER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE FERN ISSUED AFFER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/LISERS SHALL HOLD ARAMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE PROME AND THE ASSOCIATION AND USE OF THE CAD FILE BY THE RECEIVING PARTY/LISER. IN ALL CIRCLINSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR POF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY SETWEEN THE PUBLISHED PAPER/POF DRAWINGS AND THE ASSOCIATED CASE OF THE PROJECT AND ALL GREDWING PAPER/POF DRAWINGS AND THE ASSOCIATED CAD FILE. THE PUBLISHED PAPER/POF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED SPAER/POF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MASONRY COLLAR

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITE SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT

DEWATERING

ANY NECESSARY DEWATERING OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION

STORM SEWER INSTALLATION

HIS WORK CONSISTS OF CONSTNUCTING STORM SEWER. THE
CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED
FOR INSTALLING HESE ITEMS. HE WORK ALSO INCLUDES FURNISHING
ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIEF, JONNING,
BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES
AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR
(I.E. PAVEMENT IN STREETS, ALLEYS AND DIFFERENTS), DEPOSAL OF
WORK NECESSARY TO COMPLETE THE ITEMS. HE CONTRACTOR SHALL
BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND
OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER
SYSTEM. THE EXISTING STORM SEWER AND
OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER
PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE
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PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE
PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE
PLANS ARE IN SHALL BE THROUGH PREMANULACTURED TEES OR HOLES
INSTALLED USING A CORNING MACHINE, PIRE MAY BE ANY OF THE PIPE
TYPES LISTED BELOW UNLESS OTHERWSE SPECIFIED ON THE PLANS.

TYPES OF PIPE PERMITTED ODOT MATERIALS NUMBERS CONGRET POLYETHYLENE SMOOTH-LINED PIPE (PGDIP) 707.33 POLYPROPYLLENE CORRUGATED DOUBLE WALL PIPE (PGDWP) 707.65 POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35) 707.45 REINFORDED CONCRETE PIPE 766.92

GENERAL NOTES

1. INSTALL AND TEST ALL UTILITIES PER THE LATEST VERSION OF THE CITY OF CINCINNATI STANDARDS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.

3. ALL CONCRETE USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-1P AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTION(S). ALL OTHER CONCRETE (WALKS, CURBS, ETC.) PAYEMENT SECTION(S). ALL OTHER CONCRETE (WALKS, CORSS, ETC.)
SHALL BE ODO'T GC MISC. (CEMENT ONLY — NO POZZOLAM MATERIAL).
REINFORCED WITH 3 LBS/CY OF ETTHER EUCLID CHEMICAL TUFSTRAND
SF, FORTA FERRO FIBRILLATED MACROBERS OR APPROVE
EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMOM 2" LENGTH,
ASTROCT ARISTO SO TO 30. CONTRACTOR SHALL CONTRACT THE FIBER
MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST
BATCH AND THE STEPPER ASTROCTORY OF THE FIRST
BATCH AND THE STEPPER ASTROCTORY OF THE FIRST
BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING

4. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

5. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

6. ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER THE LATEST VERSION OF THE CITY OF CINCINNATI STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURED. STRUCTURES SHALL BE THE MANUFACTURENCE OF RECOMMENDATIONS OF AS NOTED ON THE PLANS, THE CONTRACTOR CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS, CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING TEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1)
INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3)
PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE COVERING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACULTY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROAD WAS MUST HAVE AT LEAST ONE LAME OPEN AT ALL TIMES, NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERFUSE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER, TESTING MAY BE REQUIRED BY THE OWNER.

SAWCUT PAVEMENT JOINTS

MORE THAN ONE SANCUT MAY BE INCOSSABY TO ENSURE A CLEAN CUI. JUST FINDS TO ASPHALI AS CHARLES PLACEMENT, ASPHALI MATERIAL, SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAYING AS PER 40114. A FERT HE ASPHALI WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LOUID ASPHALI WORK.

WATER LINE CROSSING SEPARATION

WATER LINE CRUSSING SEPARATION.

CONTRACTOR SHALL LOWER/DP ANY EXISTING OR PROPOSED WATER
LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE
FROM HE WATER LINE TO ANY STORM OR SAINTERY SEWER, WATER
LINE SHALL BE LAID AT LEAST 10" HORIZONTALLY FROM ANY SEWERS.
LINE SHALL BE LAID AT LEAST 10" HORIZONTALLY FROM ANY SEWERS.
LINE SHALL BE LAID AT LEAST 10" HORIZONTALLY FROM ANY SEWERS.
CROSS, THE SEWER AND WATER SHALL BE AND AT SLICH LA UST
LECKTION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN
THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF
WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE
STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS A BOOLUTELY
IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER
WOULD BE ABLE TO WITHSTAND ALD DESTREASHED. STREET SE CONSTITUTED OF METER LINE THE PARLETMANS WHICH WOULD BE ABLE TO WITHSTAND A 100 PS). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN, NO, CHANGE OF MATERIALS ARE ALLOWED MD—SPAN, COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUMBID FOR THE PROJECT.

PAVEMENT MARKINGS

ALL PAYEMENT MARKINGS SHALL BE EFR COOT-TIEM, S40 AND 542. ALL PAYEMENT MARKINGS TO BE TYPE, UNDESS APPLICATION IS REQUIRED WHEN AR AND PAYEMENT TEMPERATURES ARE BETWEEN 35 T AND 50 T, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-DIJALIFED TYPE TA COLD WEATHER TRAFFIC PAINT MATERIALS PER TIEM 162 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

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LMAR STUDENT HOUSING CITY OF CINCINATTI GENERAL NOTES (5)

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FILE NAME GNA DRAWN BY JMK MLS MLS

DATE -3-202

UTILITIES

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF SAS, ELECTRIC, TELEPHONE, CABLE TELEPISION, FIBER OPTIC, ETC.. CONTRACTOR SHALL CONTRACTOR SHALL CONTRACTOR SHALL CONTRACTOR SHALL CONTRACTOR SHALL OF INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTIL TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING). PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION

ASPHALT PAVEMENT REPLACEMENT NOTE

ASPHALT

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT EXCEPT FOR ODOT ITEM 401.20 ASPHALT BINDER PRICE ADJUSTMENT (ASPHALT CONCRETE BID ITEMS ARE NOT ELIGIBLE FOR ANY ASPHALT BINDER PRICE ADJUSTMENT).

ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINIAINED AND LEFT IN A CONDITION SEASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER, ANY CHAMES IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SANISHACION OF THE CITY OF CINCINNATI AND /OR OWNER

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

CLEARING AND GRUBBING

CONTRACTOR TO CLEAR THE AREA AS SHOWN ON THE PLANS AND/OR AS NEEDED TO WORK ON THIS PROJECT UNLESS STATED ELSEWHERE IN THE PLANS, CLEARING AND GRUBBING IS TO BE KEPT TO A MINIMUM IN ORDER TO PRESERVE THE WOODED AREAS.

MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACTOR SHALL BE RECOVERED. NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER TIEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

OWNER COORDINATION NOTES

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENAGLE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH "THE COMPUTATIONS THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH "THE COMPUTATIONS OR ACTIVITIES."

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND DITHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY CONVER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC, ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE

GENERAL NOTES FOR CIVIL WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND IS TO INCLUDE SUCH COSTS AS A PART OF THE LUMP SUM PRICE ON THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE APPROPRIATE UNDERGROUND UTILITY MARKING SERVICE PRIOR TO THE START OF ARY CONSTRUCTION IN ORDER TO AVOID CONFLICTS WITH EXISTING UTILITIES. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO THE START OF ANY WORK THAT WOULD BE IN CONFLICT WITH THE UTILITIES.

3. THE CONTRACTOR IS TO VISIT AND INVESTIGATE THE PROJECT SITE, PRIOR TO BIDDING, IN GRORE TO DETERMINE THE EXSTRIC GROUND AND AND ADDRESS OF THE PROJECT OF THE OWNER, NO TEST HOLES ARE THE DESCRIPTION OF THE OWNER, NO TEST HOLES ARE THE DESCRIPTION OF THE OWNER, NO TEST HOLES ARE THE DESCRIPTION OF THE OWNER, THE PROJECT OF THE PROJECT OF THE OWNER, THE PROJECT OF THE PROJECT OF THE OWNER, THE OWNER, THE PROJECT OF THE OWNER, THE OWNER, THE OWNER, THE PROJECT OF THE OWNER, THE OWNER, THE OWNER, THE PROJECT OF THE OWNER, THE OWNE FROM THE OWNER'S REPRESENTATIVE TO DO SO.

4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS WITH REGARD TO EXCAVATION, SAFETY, QUALITY AND WORK PROGRESS. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THESE THROUGHOUT CONSTRUCTION OPERATIONS.

5. THE LOCATION OF MATERIALS STORED ON SITE MUST RECEIVE THE APPROVAL OF THE OWNER. IN GENERAL, MATERIALS SHOULD BE STORED SO AS TO MINIMIZE THE INCONVENIENCE TO THE OWNER.

6. IF EXCAVATED MATERIALS ARE FOUND TO BE CONTAMINATED, REMEDIATION WILL BE AT THE OWNER'S EXPENSE PRIOR TO REMOVAL FROM THE SITE OR DISPOSAL ON—SITE BY THE CONTRACTOR. THIS PROCESS WILL BE COORDINATED BETWEEN THE OWNER AND

7. TRENGH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE BID SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE OSHA RULES AND REGULATIONS, IN ADDITION, THE OWNER MAY HAVE ADDITIONAL REQUIREMENTS FOR EXCAVATION AND TRENCHING ON OWNER PROPERTY THAT MAY BE MORE STRINGENT THAN CURRENT LOCAL OR OSHA REQUIREMENTS. IN THIS CASE, THE OWNERS REQUIREMENTS ARE TO BE FOLLOWED JULESS THIS ACTION WOULD BE CONSIDERED NON-COMPLIANT WITH CURRENT GOVERNING CODES OR REGULATIONS AS DETRINED BY LOCAL OR OVERNING AND HIGHIES. WAS ALLEY A THOM LOWER AND THE OWNER AND TH

8. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR REPLACE A THE MATRICULAY WILL SE RESPONSIBLE TO REPAIR, REPEAL, A PROME THE MATERIAL SERVICE OF THE MATERIAL S OF THE RECORD DRAWINGS.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRS TO ANY UTILITY LINE(S) THAT THE CONTRACTOR DAMAGES UNLESS OTHERWISE CLEARLY THE RESPONSIBILITY OF THE UTILITY COMPANY.

10. THE CONTRACTOR WILL REPLACE ALL DAMAGED OR REMOVED DRIVES AND PAVEMENT WITH THE REQUIRED THICKNESS SHOWN ON THE PLANS OR MATCH EXISTING IF GREATER.

11. ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

12. CONTRACTOR SHALL USE PROPER EROSION CONTROL TECHNIQUES TO MAINTAIN GRADE PRIOR TO SEEDING.

13. CONTRACTOR TO REFER TO ODOT SPECIFICATION, ITEM 659 FOR SEEDING AND MULCHING UNLESS OTHERWISE SPECIFIED, CONTRACTOR WILL NOT SEED ANY AREA UNTIL OWNER HAS INSPECTED FINAL WILL NOT SEED AN TOPSOIL GRADING.

14. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL FENCES, LAWN DECORATIONS, TREES, SHRUBS, PLANTING, VEGETATION ETC. WHICH IS DAMAGED, DISTURBED OR REMOVED DURING CONSTRUCTION.

15. DURING PAYING OPERATIONS, THE CONTRACTOR MUST SUBMIT AL WRITTEN PLAN IDENTIFYING DRIVE AREAS WITHIN THE SITE THAT WILL BE SHUT DOWN FOR CONSTRUCTION OPPORT TO START OF ANY WORK IN THOSE AREAS, CONTRACTOR MUST MAINTAN A MINIMUM OF ONE LANE FOR TRAFFIC IN ANY AREAS OD DESIGNATED BY THE OWNER THROUGHOUT ALL CONSTRUCTION OPERATIONS.

ITEM 203 EXCAVATION AND EMBANKMENT CONSTRUCTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 203 ROADWAY EXCAVATION AND EMBANKMENT, EXCEPT AS HEREIN MODIFIED.

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT FOR ALL PAVEMENT OR BUILDING AREAS SHALL BE ALL EMPANAMENT FOR ALL PAYMENT OR SULLING RIVERS SHALL BI OF SUITABLE HIGHERED FILL MATERIAL AND SHALL BE COMPACTED THE OWNER, ALL OTHER EWBANAMENT AREAS SHALL BE COMPACTED TO A MIMIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER, I ESTING MAY DE REQUIRED BY THE OWNER.

ALL EXCESS SURFACE MATERIAL, EXCAVATED UNSUITABLE MATERIAL AND ALL EXCESS EXCAVATED MATERIAL. SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY AND EXPENSE OUTSIDE OF THE PROPERTY AT A SITE APPROVED BY THE OWNER.

PAYMENT FOR ITEM 203 EXCAVATION AND EMBANKMENT CONSTRUCTION, AS PATHENT FOR TIEM 203 EXCAVATION AND EMBARKMENT CONSTRUCTION, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

ALL AREAS TO RECEIVE PAVEMENT SHALL BE COMPACTED AS NOTED IN ODOT ITEM 204, OWNER'S REPRESENTATIVE WILL REQUIRE PROOF ROLLING OF SUBGRADE PRIOR TO INSTALLATION OF SUB-BASE AND/OR BASE MAISTRAL PROOF ROLLING SHALL CONIST OF DRIVING OVER THE SUBGRADE WITH A LOADED TANDEM DUMP TRUCK AS DIRECTED BY SUBGRAUE WITH A LOADED HANDEN DOMP HOLD AS THE THE OWNER'S REPRESENTATIVE UNIL NO DEFLECTION OF THE INDENTATION IN THE SUBGRADE IS PRESENT. CONTRACTOR TO PERFORM ALL PROOF ROLLING PROCEDURES AND ANY NICESSARY CORRECTIVE MEASURES AS DIRECTED BY THE OWNER'S REPRESENTATION.

PAYMENT FOR ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LEAGOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 EXCAVATION OF SUBGRADE AND STRUCTURAL EMBANKMENT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL INCLUDE THE EXCAVATING OF UNSUITABLE SUBGRADE AND REPLACING WITH ODOT THEM 304 ACORECATE BASE, ODOT #, OR ANY COMBINATION AS DIRECTED BY THE OWNER. LOCATION AND AMOUNT OF THIS TEM SHALL BE LOCATED BY THE OWNER AT THE TIME OF CONSTRUCTION ONLY ATTER THE COMPRESTOR HAS SATISFACTORILY ATTEMPTED TO DRY OUT AND WORK THE SUBGRADE. THIS THE MICLUDES EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL SUBGRADE COMPACTION. AND THE SUPPLY AND QUANTITY WILL BE AS DETERMINED IN THE FIELD BASED ON SITE SUBGRADE CONDITIONS, BUT THIS ITEM COULD BE NON-PERFORMED IF DEFENDED. DEFMED UNNECESSARY

PAYMENT FOR ITEM 204 EXCAVATION OF SUBGRADE AND STRUCTURAL PAYMENT FOR TIEM 204 EXCAVATION OF SUBGRADE AND STRUCTURAL EMBANKMENT, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT COURT AND BIO PRICE WHICH THE CONTRACTOR SHALL PROWDE WITH THEIR LUMP SUM BID PRICE AND SHALL INCLIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS TEM OF WORK.

ITEM 204 GEOGRID, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204, SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

SELECTIONS OF AREAS THAT NEED GEOGRID, IN ADDITION TO ITEM 204. EXCAVATION OF SUBGRADE AND STRUCTURAL EMBANKMENT, AS PER PLAN, SHALL BE DETERMINED BY THE OWNER BY WITNESSING THE CONTRACTOR'S PROOF ROLLING THE EXPOSED SITE OR AS DETERMINED BY THE OWNER'S REPRESENTATIVE.

THE QUANTITY WILL BE AS DETERMINED IN THE FIELD BASED ON STE SUBGRADE CONDITIONS, BUT THIS ITEM COULD BE NON-PERFORMED IN DEEMED UNINCESSARY. THE METHOD OF MEASUREMENT SHALL BE THE SURFACE AREA COVERED BY THE STABILIZATION MEMBRANE, NOT

THE WORK SHALL INCLUDE SUBGRADE STABLIZATION BY UTILIZING THE TENSAR TXS CECORID. LOCATION AND AMOUNT SHALL BE LOCATED BY THE OWNER AT THE TIME OF CONSTRUCTION. THE GEOGRIS HALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND SYSCEPTICATIONS. THIS WORK SHALL ALSO INCLUDE THE ADDITIONAL LABOR AND EQUIPMENT TO PROPERLY PLACE THE 2014 AGORDICATE BASE OVER GEOGRID AS RECOMMENDED BY MANUFACTURER.

PAYMENT FOR ITEM 204 GEOGRID, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SOURCE WHO THE CONTRACTOR SHALL PROVIDE WITH THEIR CLUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 304 AGGREGATE BASE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 304 AGGREGATE BASE EXCEPT AS HEREIN MODIFIED.

THIS ITEM SHALL ALSO INCLUDE SATURATING THE AGGREGATE BASE WITH WATER DURING PLACEMENT OF EACH LIFT PRIOR TO COMPACTION. THIS WORK SHALL INCLUDE "PROOF ROLLING" WITH LOADED TANDEM DUMP TRUCK AS DIRECTED BY THE OWNER'S REPRESENTATIVE UNTIL NO DEFLECTION OR TIRE INDENTATION IN THE AGGREGATE SUB-BASE/BASE IS PRESENT.

PAYMENT FOR ITEM 304 AGGREGATE BASE FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 659 SEEDING AND MULCHING. CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER DOOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING, NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY ESTABLISHED TO THE SATISFACTORY OF THE OFFICE AND RESEEDING. RECOURE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING. ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS OID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE. THIS TERM INCLUDES: TOPSON, SEEDING, MUCCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM

One Choice

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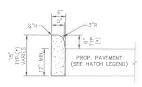
NOTES

- LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE
- B. THE MINIMAL BASIN DIAMETER SHOULD BE AS STATED AND CALLED FOR IN THE PLANS. THE MINIMAL BASIL VANCELES HOLD BE AS STRILD AND CALLED FOR IN THE PLANS. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE BASIN MANUFACTURER, INTLOPLAST, TO DETERMINE IF A LARGER DIAMETER BASIN THAN THAT WHICH IS STATED IS NEEDED BASIC ON THE PIPE CONFIGURATION AND TO SUPPLY THE LARGER DIAMETER IF NEEDED, CONTRACTOR TO INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- THE FRAME AND GRATE SHALL BE THE STANDARD OPTION DUCTILE IRON PER ASTM A536 GRADE 70-50-05. (NYLOPLAST 12" #1299CGS)
- THE BASINS SHALL BE MANUFACTURED FROM PVC PIPE STOCK (RAW MATERIAL PER ASTM TOTAGE CHILD CLASS 12454, UTILIZNO A THERMOFORMING PROCESS TO REFORM THE PIPE STOCK TO SPECIFIED CONFIGURATION A WATERTICHT CONNECTION SHALL CONFORM TO ASTM D3212. FLEWIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. PER ASTM D1764 CELL CLASS 12454. (NYLOPLAST - 12" #2B12AG)
- E. THE BASIN ADAPTOR CONNECTIONS HAVE THE CAPABILITY TO CONNECT INTO VARIOUS TYPES (HDPF, PVC SDR-35, PVC SCG-40, PVC C900, CORRUGATED/RIBBED PVC.
- ALL YARD DRAINS THAT ARE INSTALLED WITHIN PLANTING BEDS AND/OR MULCH BEDS SHALL HAVE A BEEHIVE/DOME GRATE WITH A STONE COLLAR SURROUNDING THEM TO PREVENT MULCH FROM WASHING INTO HE BASIN, STONE COLLAR TO BE 6" WIDE BY 6" THICK AROUND THE ENTRIE PERMETER OF THE BASIN AND CONSIST OF 1" TO 2" ACOUND RIVER ROCK. CONTRACTOR SHALL FASTEN/DOLT DOWN GRATE TO BASIN TO ENSURE GRATE IS SECURELY FASTENED IN PLACE.
- G. IF GRATES ARE LOCATED WITHIN PAYED OR WALKING AREAS, GRATES MUST BE SAFE FOR PEDESTRIAN TRAFFIC PER ADA REQUIREMENTS, BE LOCKING, BE DUCTILE IRON, AND MEET H=10 LOADING.



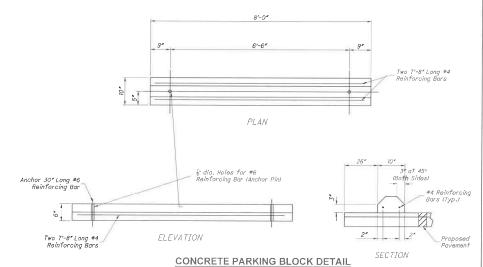
YARD DRAIN NTS

12"Ø AND 15" Ø BASIN



- A. (*) HEIGHT VARIES WITH CURB EXPOSURE.
- B. CONCRETE WORK SHALL MEET THE REQUIREMENTS SET FORTH IN ODOT ITEM 509 CURBING.
- C. CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10' AND EXPANSION JOINTS EVERY 100'.
- D. MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING.
- E. CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED OR AS SOON AS PRACTICAL WHEN SLIPFORMING PRIOR TO OTHER CONSTRUCTION OPERATIONS.
- F. PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.
- APPLY WHITE PICMENTED CURING COMPOUND ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
- H. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY NO POZZOLAN MATERIAL).
- CONCRETE TO INCLUDE 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO SYNTHERD MAGROFIBERS OR APPROVED EQUIVALENT WEITING ASTM C 1116 TYPE 3, MINIMUM 2" LENDTH, ASPECT RAIDO D TO 90, CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURERS SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

TYPE 6 BARRIER CURB

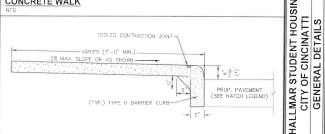




NOTES

- WALK TO BE POURED ON 4" MINIMUM ODOT #304 OR ODOT #411 AGGREGATE.
- B. PROVIDE EDGING AND BROOM FINISH TO ALL EXPOSED SURFACES.
- C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE AND WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
- D. USE WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
- E. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY NO POZZOLAN MATERIAL)
- PROPOSED CONGRETE WALK SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSIBLE JOINT SPACING MAY YARY SLIGHTLY DEPENDING ON THE LENGTH AND MIDTH OF THE PROPOSED SDEWALK AREAS, JOINT SPACING SHALL TYPICALLY RANGE FROM 4"X" TO 10"X10", IN ALL CASES THE SDEWALK SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 125-1 OR LESS, CONTRACTOR TO VERIFY METHOD AND TYPE OF CONTROL JOINTING WITH OWNER PRIOR TO PERFORMING WORK.
- G. SIDEWALK SHALL HAVE EXPANSION JOINTS EVERY 100'.
- H. CONCRETE TO INCLUDE 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO SYNTHETIC MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER. MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

CONCRETE WALK



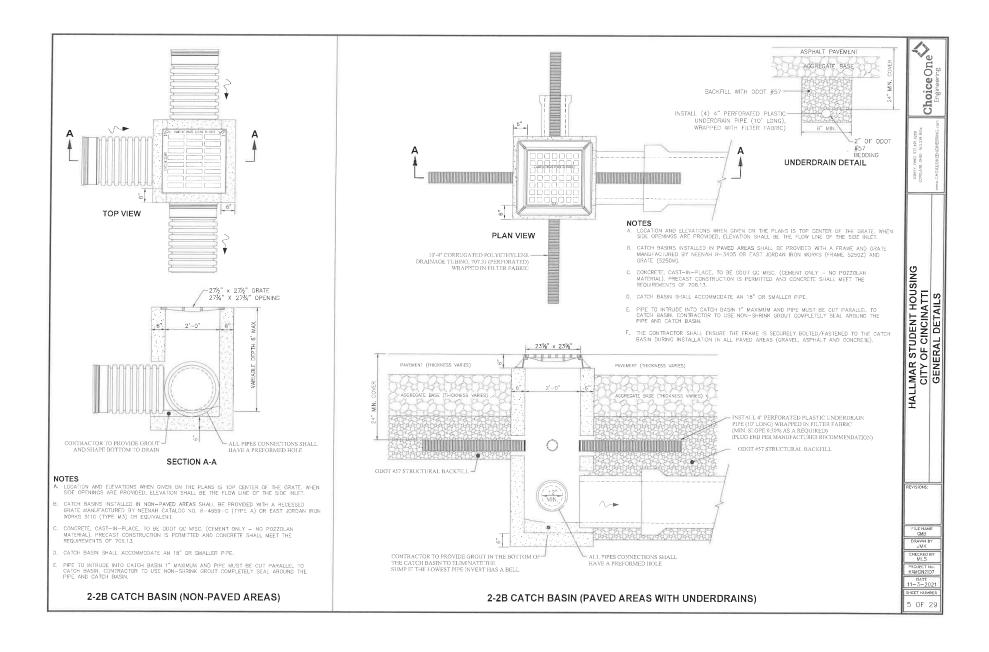
NOTES

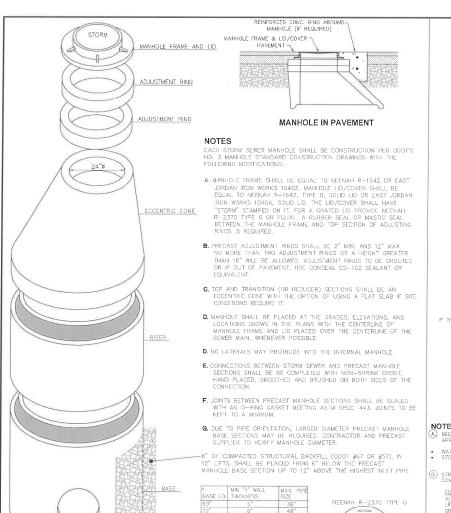
- A. WALK TO BE POURED ON 4" MINIMUM ODOT #304 OR ODOT #411 AGGREGATE.
- B. PROVIDE EDGING AND BROOM FINISH TO ALL EXPOSED SURFACES.
- C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE AND WORK SHALL CONFORM TO-ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
- D. USE WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
- E. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY NO POZZOLAN MATERIAL).
- F. PROPOSED CONCRETE SIDEWALK SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSBLE JOINT SPACING MAY VARY SLIGHTLY DEPENDING ON THE LENGTH AND WIDTH OF THE PROPOSED SIDEWALK AREAS, JOINT SPACING SHALL TYPICALLY RANGE FROM 4/4/1 TO 10/31/0, IN ALL CASES THE SIDEWALK SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 1.25:1 OR LESS. CONTRACTOR TO VERIFY METHOD AND TYPE OF CONTROL JOINTING WITH OWNER PRIOR TO PERFORMANG WORK.
- CURB/SIDEWALK SHALL HAVE EXPANSION JOINTS EVERY 100'.
- H. CONCRETE TO INCLUDE 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO SYMTHETIC MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1115 TYPE 3, MINIMUM 2" LENOTH, ASPECT RATIO SO TO 90 CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO GROBERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

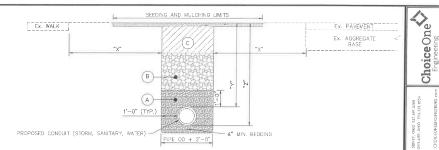
COMBINED CURB AND WALK

JMK

Choice One



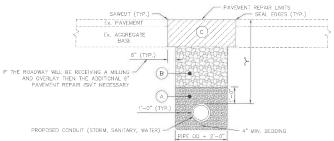




PRIVATE UTILITY TRENCH DETAIL (OUTSIDE PAVEMENT AREAS)

"X"= DISTANCE FROM EDGE OF TRENCH TO EDGE OF CLOSEST PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS.

"Z"= DISTANCE FROM TOP OF BEDDING TO FINISH SURFACE.



PRIVATE UTILITY TRENCH DETAIL (IN PAVEMENT AREAS)

NOTES

- A BEDDING SHALL BE PER ODOT 703.11 "STRUCTURAL BACKFILL FOR 511 BEDDING AND BACKFILL" TYPE 3 (#57 OR #67 AGGREGATE), OR OTHER APPROVED EQUIVALENT BY THE CITY OF CINCINNAT. THE FOLLOWING BEDDING MATERIAL SHALL BE USED PER PROPOSED CONDUIT:
- WATER MAIN, WATER SERVCES, FIRE HYDRANTS AND APPURTENANCES SHALL BE NATURAL CRUSHED STONE OR NATURAL GRAVE.
 STORM AND SANITARY SEWERS SHALL BE CRUSHED LIMESTONE OR NATURAL CRUSHED STONE.
- (B) STRUCTURAL BACKFILL DENSITY TEST TO 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED BY THE CITY OF CINCINNATI TO BE COMPLETED BY A CERTIFIED COMMERCIAL TESTING LABORATORY.

EGR "OUTSIDE PAYEMENT_APEAS".
ALL TRENDES WHER "X" IS GREATER THAN "Z", THE BACKFILL MATERIAL SHALL BE COMPACIED NATIVE MATERIAL IN 12" MAXIMUM LITES OR AS APPROVED BY THE CITY OF CINCINNAT. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 3" DIAMETER.

ALL TRENCHES WHERE "2" IS GREATER THAN "X", THE BACKFILL MATERIAL SHALL BE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE). THE AGGREGATE SHALL BE COMPACTED IN 12" MAXMUML HITS AND BE USED UNTIL THE BACKFILL HEIGHT RESULTS IN "X" BEING GREATER THAN "Z" AT WHICH TIME MATIVE BACKFILL OAN BE USED.

EOR "IN PAVEMENT APLAS".
ALL RENORES SHALL HAVE GOOT ITEM 703.11, TYPE 1 (#304 AGGRECATE) BACKFILL PLACED FROM THE TOP OF THE BEDDING TO THE BOTTOM OF THE ROADWAY BASE.

© ALL "OUTSIDE PAYEMENT AREAS" SHALL RECEIVE A MIN. OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED PER ODOT 659.
ALL "IN PAYEMENT AREAS" SHALL FOLLOW THE CORRESPONDING PAYEMENT COMPOSITION PROVDED IN THE HART

HALLMAR STUDENT HOUSING CITY OF CINCINATTI GENERAL DETAILS

Choice

MLS B

5 OF 29

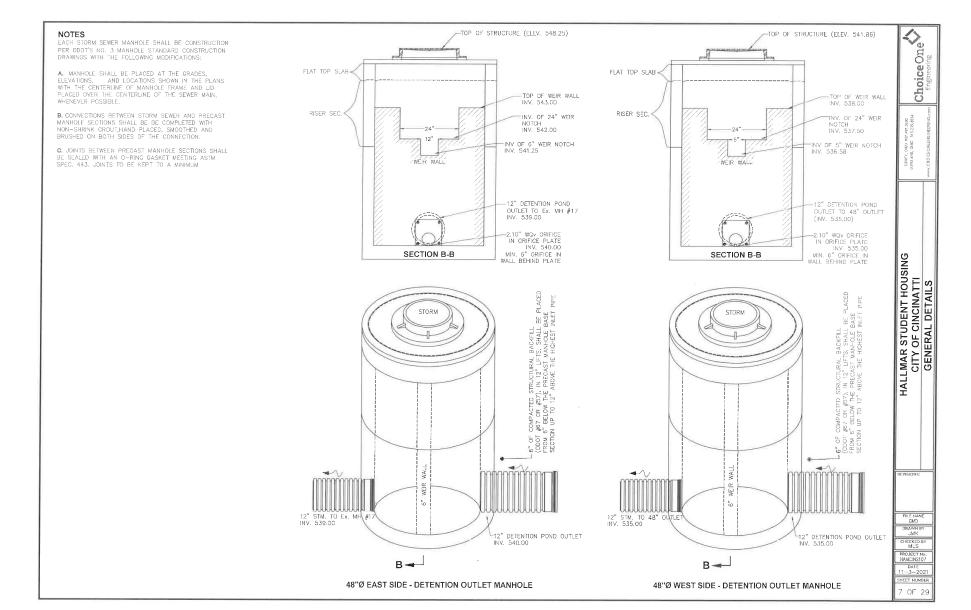
Diam so was

*DUE TO PIPE ORIENTATION, LARGER DIAMETER BASE THAN WHAT IS SPECIFIED TO ACCEPT PIPE MAY BE REQUIRED



FOR 30" & SMALLER PIPE ("SEE TABLE FOR PIPE SIZES GREATER THAN 30") NO. 3 STORM MANHOLE

48" DIA. MANHOLE



TO SUPPORT REPLACED SECTION OF PIPE, ODOT 703,11, TYPE 3, #57 COMPACTED WASHED GRAVEL	The District of
NOTES PRO	POSED CONDUIT
A. CONCRETE REPAIRS OR PATCHES ARE UN	VACCEPTABLE.

- ANY DRAINAGE THE DAMAGED BY THE CONTRACTOR MUST BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ANYTHING REMOVED, REPLACED, AND/OR CONNECTED TO THE STORM. SEWER MUST BE NOTED IN THE AS-BUILT DRAWINGS AND MUST BE INSPECTED BY THE INSPECTOR BEFORE THEY A RE-COVERED.
- C. ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION MUST BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF CINCINNATI

SMU STANDARD PLAN NOTES

STAINLESS STEEL SOLID SLEEVE COUPLINGS WITH STAINLESS STEEL BANDS, EACH SIDE,

CORRUGATED METAL PIPE COUPLING

CONCRETE COLLAR

OTHER THAN EVO

(CLAY, DUCTLE, ETC.)

- 1. ALL PLANS AND CONSTRUCTION WITHIN THE CITY OF CINCINNATI SHALL COMPLY WITH CHAPTER 720 OF THE CITYS MUNICIPAL CODE ALONG WITH THE LATEST EDITIONS OF SMUTS. A) DETENTION OPERATION AND MAINTENANCE PLAN, B) FIES, C) STANDARD DRAWNOS, D) PIDE MATERIALS POLICY, AND E) RULES & REGULATIONS. THESE DOCUMENTS CAN BE DOWNLOADED FROM SMUTS WEBSTE AT HITTP://YWW.CINCINNATH-OH.COV/STORMWAIER/, IF THERE ARE CONTACTED TO NESCULVE THE ISSUE PRIOR TO WORK COMMENCINC, SMU CAN BE REACHED AT 513-591-7745 OR STORMWAIER/ANA/COMPANIONICINNATIO-OH-COV.

 2. TEMPORARY EROSON CONTROL MEASURES SHOWN ON THE PLANS SHALL BE INSTALLED AS EARLY AS POSSIBLE AND BE MAINTAINED THROUGHOUT THE PROJECT

- MAINTAINED THROUGHOUT THE PROJECT.

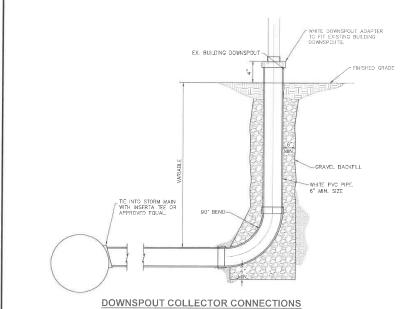
 A NATIONAL POLILITARY DISCHARGE FLIMMATION SYSTEM (NPDES)/MUNICIPAL SEPARATE STORM SEWER SYSTEM (MSA) PERMIT IS REQUIRED IF THE TOTAL LAND DISTURBANCE WILL BE EQUAL TO OR GREATER THAN ONE AGRE IN A STORM ONLY SEWER AND/OR IF DISCHARGING TO A GREEK A COPY OF THE PERMIT MUST ACCOMPANY THE REQUEST FOR APPROVED OF THE PERMIT AND THE COLORS FOR ADMINISTRATION OF THE PERMIT PORT OF THE PERMIT PLANT OF THE PERMIT PART OF THE PERMIT PART
- COUNCIL, CITY OF GIRCHMAIL.
 ALL WORK DONE ON STORMWATER INFRASTRUCTURE WITHIN THE CITY OF CINCINNATI MUST BE DONE BY A CONTRACTOR WHO IS
 AN APPROVED SEWER TAPPER PROPERLY LICENSED AND BONDED THROUGH THE METROPOLITAN SEWER DISTRICT OF GREATER
- CINONANA CONTROL OF A TAP PERMIT IS REQUIRED FOR EACH BUILDING, BOND OR FINAL ACCEPTANCE OF THE MAIN LINE IS REQUIRED FRICK TO ISSUANCE OF A TAP PERMIT. A SKETCH SHALL BE SUBMITTED BY THE PLUMBER, WHICH SHALL SHOW THE FLEVATION AND LOCATION OF THE STORMMATER TAP WITH RESPECT IS THE NEW TO THE THE STORM MARMHOLE. A REQUEST APPLICATION CAN BE SENT TO STORMMATERMANAGEMETICONIONNATI-OH-GOV.
- 11. ALL STORMWATER INFRASTRUCTURE WITHIN THIS DEVELOPMENT IS TO BE PRIVATE AND MAINTAINED BY THE OWNER(S). [ONLY IF
- 11. ALL STORMWATER INFRASTRUCTURE WITHIN THIS DEVELOPMENTS TO TO CALL STORMWATER INFRASTRUCTURE CONSTRUCTION MUST COMMENCE WITHIN 12 MONTHS AND BE COMPLETED WITHIN 36 MONTHS OF THE DATE OF APPROVAL SHOWN HEREON OR THESE PLANS BECOME VOID.

 13. NEAR THE COMPLETION OF WORK ON ALL STORMWATER INFRASTRUCTURE, THE [CONTRACTOR/OWNER/DEVELOPER/ETC.] SHALL REQUEST CAGS IDS FROM SMU, UPON COPPLETION OF THE WORK USING SAID IDS THE [CONTRACTOR/OWNER/DEVELOPER/ETC.] SHALL CLOSE CIRCUIT TILEMSE (CCTN) THE PUBLIC STORMWATER MANILINES AS WELL AS PROVIDE DIGITAL PHOTOGRAPHS OF THE LINES AND STRUCTURES. THE CCTV SHALL BE PIPELINE ASSESSMENT CERTIFICATION PROGRAM (PACP)—COMPLIANT AND SUBMITTED TO SMI FOR APPROVAL UNES AND SINUCTURES. THE COTY SHALL BE PIPELINE ASSESSMENT CERTIFICATION PROGRAM (AACP)-COMPULANT AND SUBMITTER
 14 PRINGING PROPORTION.
 14 PRINGING PROPORT OF SMULT OF GRANT FIRST, ACCEPTANCE THE FOLLOWING MUST BE SUPPLIED.
 15 PRINCIPLE OF THE PROPORTION OF THE PROPORTIONS AND QUARTITIES OF THE INSTALLED MATTERIALS
 16 PRINCIPLE OF THE PROPORTION OF THE

-Top of payement -6" bedding materia CITY OF CINCINNATI STORMWATER MANAGEMENT UTILITY http://www.cincinnati-oliugov/stormwater STANDARD COLOR BASIN - MANIELE THE CONNECTS NO SCALE BASIN ALICUS (1) 2017 AC. NO. 120351

SMU MANHOLE STORM CONNECTION DETAIL

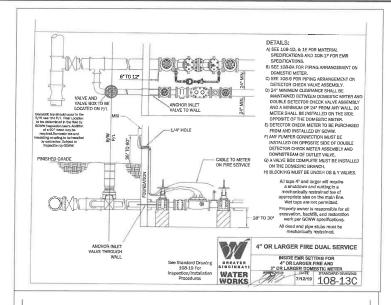
REPAIR OF EXISTING FIELD TILE OR STORM PIPE DETAIL



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ALLMAR STUDENT HOUSIN CITY OF CINCINATTI GENERAL DETAILS H

PROJECT NO





3/4" REINFORCING BARS TO BE PLACED ON THRUST SIDE 6" O.C.

SIZE			75 P.S.I.	& UNDER		7.	75 P.S.L TO 125 P.S.L				P.S.J. I	0 200 P.S	4
RUN	BRANCH	A	8	CO. YOS.	LBS. STEEL	A	В	CONC.	LES. STEEL	A	В	CU. YOS.	STEE
5"	5"	1'9"	1'6"	0.1	17	2'6"	1'6"	0.1	23	2'6"	2'0"	0.2	30
8"	8"	1'6"	1'9"	0.1	17	2'0°	1'9"	0.1	23	2'6"	20"	0.2	30
12"	8"	1'8"	2'0"	0.2	18	2'0"	2'0"	0.2	24	2'6"	20"	0.2	30
16*	6"	1'6"	2'6"	0.2	23	1'6"	2'6"	0.2	23	20"	2'6"	0.2	30
20°	8"	1'6"	2'9"	0.2	26	1'6"	2'9"	0.2	26	1'9"	29"	0.2	33
8"	8*	2'0"	2'0"	0.2	24	2'6"	2'0"	0.2	28	3'0"	2'3"	0.2	32
10"	8"	2'0"	20"	0.2	24	2'6"	2'0"	0.2	28	3'0"	2'3"	0.2	32
12"	8"	2'0"	2'0"	0.2	24	26"	2'0"	0.2	28	3'0"	23"	0.2	32
16"	8"	20"	2'0"	0.2	24	2'6"	2'5"	0.3	35	370*	24"	0.3	32
20"	8"	2'0"	2'0"	0.2	24	2'6"	2'9"	0.4	35	3'0"	2'9"	0.4	39
12"	12"	30"	3'0"	0.5	54	4'0"	2'8"	0.4	55	4'8"	3'6"	0.7	95
16*	12"	30"	3'0"	0.5	54	40"	2'6"	0,4	55	4'6"	3'9"	0.7	98
20"	12"	30"	3'0"	0.5	54	4'0"	2'9"	0.6	60	4'6"	40"	1.0	108
20"	16"	4'0"	3'6"	0.8	84	4'6"	4'0"	1.0	108	6'0"	5'0"	1.5	18
20"	20°	4'6"	4'6"	1.1	122	5'6"	5'0"	1,4	165	70	6'0"	2.0	252

NOTE: 1. PRESSURE RANGES AS SHOWN ARE OPERATING PRESSURES. CONGRETE AND STEEL QUANTITIES ARE CALCULATED USING OPERATING PRESSURE PLUS 50 P.S.I.

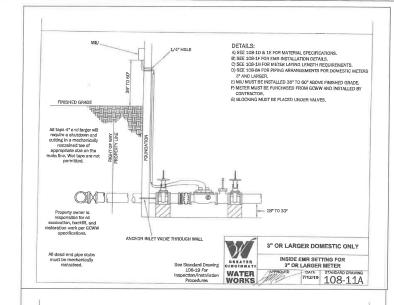
CONCRETE AND STEEL QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.

CONCRETE BLOCKING TO BE PLACED AGAINST UNDISTURBED

THIS STD. DWG. SHALL BE UTILIZED FOR BLOCKING OF TEES, 90° BENDS, FIRE HYDRANTS. AND PLUGS

EARTH.

CONCRETE BLOCKING FOR FITTINGS DATE I WATER Sounde 1/4/13 101-5 WORKS



Large Branch (4 Inch and Larger) installation Procedures

1) The GCWW Inspection Section (\$13) \$91-7870 is responsible to inspect the installation of the tap from the water main up to the Right-of-Way (ROW) Line, or location approved by the GCWW.

2) The GCWW Premise Services Section (513) 591-7825 is responsible to Inspect the installation from the ROW to the meter, including the meter pit and/or Ford/Monitor Boxles)

3) The contractor shall secure and provide to the GCWW inspector a Temporary Water Use Permit. The Temporary Use Permits are obtained from the GCWAY Premits Services Section (513) 591-7825. Failure to provide a Temporary Use Permit to the Inspector will result in the work being cancelled until the permit is secured.

4) All large (4 inch and above) taps will be made by means of a shut down and cutting in a tee. A "Wet Tap" will not be permitted to be made except in exten circumstances as approved by the GCWW Supervisor of Inspection

5) Only one (1) Solid Sleeve will be permitted if the installation is on nominal size Cast on

6) The use of two (2) Dual Purpose or Oversize Sierves will only be permitted on oversized

7) If a Dual or Tri Service Branch, the Inspection Section will require both the fire branch, and domestic(s) services to be installed at the same time. Inspection will not allow the installation of only the fire branch, then return at a later date to install the domestic. service(s).

8) Upon installation to the ROW line or approved location, the contractor shall end with a hub and CJ plug. The plug shall be restrained by means of mechanical rest approved by the GCWW.

9) The branch will be energized once installed to the ROW line and effectively nicesed 10) Installation of service branches shall be limited to a standard eight (R) hour day.

11) Some Installations will require weekend, holiday or after normal hour work to accommodate GCWW outloner's needs. The GCWW Inspector will coordinate other than normal hours with the contractor.

12) A charge of eight (8) hours at current inspector rate will be billed to the contractor if for any mason the contractor chooses to cancel a scheduled shutdown. This fee is over and above the inspection Fees included in the purchase price of the tap.

13) All work associated with the branch installation shall be performed with a GCWW Inspector present and performed to the current GCWW Standard Drawings, and in accordance with the current City Supplement to the State of Ohio Department of Transportation Construction and material Specifications Manual.

Large Branch (4 Inch and Larger) Purchase & Staking Procedures:

1) The Developer or his representative shall provide the following to the GCWM

a) Properly completed application(s) for new water service.

h) GCWW Contractor's Bond for \$10,000.00

c) A Contractor's Letter of lotent stating the site address, scope of work and Intended start date on company letter head.

d) A Screet Opening Permit from the proper road authority (even if the pavement is not being cut), with the exception of ODDT and Warren Co ODDT and Warren County permits must be secured by the GCWW.

e) Payment in full for the new branch.

2) Once the conditions of Item Number 1 are met, the Developers

a) Stake the desired location in the field by means of a blue top stake, paint mark, or another acceptable mean of identifying the location

b) Notify the GCWW Tap Locator (513) 591-7873, that the location has been

3) The GCWW Tap Locator will investigate the desired location to assure installation can take place as desired free of any field obstructions. If an obstruction is found, the GCWW Tap Locator will contact the Developer's Representative to mutually agree upon a new location for the tan

4) Once the location is approved by the GCWW Ton Locator, the Locator will Once the location is approved by the GCWW Tap Locator, the Locator will contact the Developer's Representative to Inform him/her that the location is acceptable. At that time the Developer's representative may contact the GCWW Supervisor of Inspection (513) 591-7870 to schedule Installation.

5) The GCWW Supervisor of Inspection will reserve up to seven business days before permitting the start of installation



Large Branch Installation Inspection Procedures

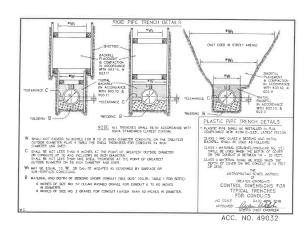
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One Choice

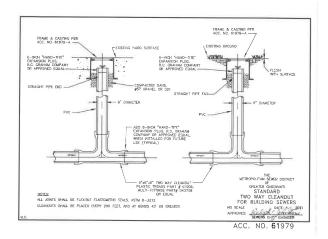
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HALLMAR STUDENT HOUSING CITY OF CINCINATTI GENERAL DETAILS

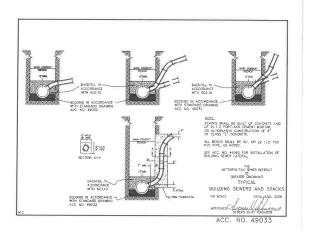
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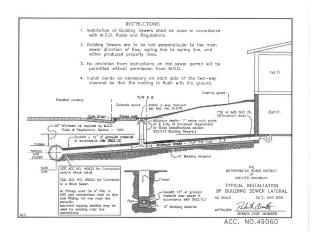
CINCINNATI MSD SEWER TRENCH DETAIL



CINCINNATI MSD SEWER CLEANOUT DETAIL



CINCINNATI MSD SEWER CONNECTION DETAIL



CINCINNATI MSD SEWER LATERAL DETAIL

Choice One Engineering

SIDNEY, CHIO 937.497.0200 10VELAND, CHIO 513.239.8554

HALLMAR STUDENT HOUSING CITY OF CINCINATTI GENERAL DETAILS

EVISIONS:

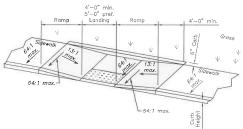
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JMK
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MLS
PROJECT No.
HAMCINIZIO7
DATE
11—3—2021
SHEET NUMBER
10 OF 2S



- A. SIGNS: "RESERVED PARKING" SIGN (USDOT STANDARD R7-8 SIGN). THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE SIGN MUST BE SUPPLIEMENTED MITH A "\$250 FINE MINIMUM" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7—HBB SIGN R7—HBB (USDOT STANDARD R7-80 SIGN) AS APPLICABLE. CONFIRM WITH LOCAL REGULATIONS.
- B. A U.S. DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED A U.S. DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED PARKING) AND SUPPLEMENTAL, SIGN AS NOTED ABOVE MUST BE MODIFIED ON A PERMANENT PORTS OF HAT THE LOWER EDGS OF HE DOLLOW MOST SIGN AT FLAST THE TOWN THE LOWER DESIGN OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARKING SPACE, NO MORE THAN FOW FEET FROM THE FRONT OF THE PARKING SPACE ONE SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE. ON SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE ALL WORKS HALL CONTORM WITH ALL FEDRINAL, STATE AND LOCAL AMERICANS WITH DISABILITIES ACT (ADA) REQUIRED FOR SACIAL SIGN SECSIBILITY AND LOCAL AMERICANS WITH DISABILITIES ACT (ADA)

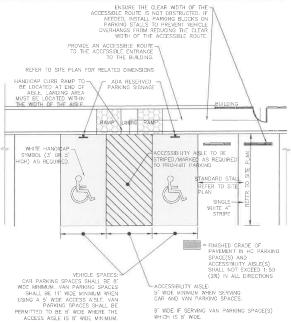
A.D.A. RESERVED PARKING SIGN

NTS



TYPE B2 (DOUBLE SIDED PARALLEL) PARLLEL CURB RAMP DETAILS NTS

ADJIST AS NEEDED PER SITE CONDITIONS/SECUREMENTS WHITIN ALLOWASIE MINIUM MOTHS AND MAXIMUM. SLOPES ALLOWED PER ADA REQUIATIONS AND STANDARDS. SEE GOOD TRAINING SSIEIS BH-21 FOR CURR RAMP DETAILS. ALL WORK TO BE PER APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBLITY CODE AND PER DOTOS BEP-7.1 DRAWING SERIES.



NOTES:

THE MINIMUM COMBINED WIDTH FOR A VAN PARKING SPACE AND ACCESSIBILITY AISLE IS 16' WIDE.

THE MINIMUM COMBINED WIDTH FOR A CAR PARKING SPACE AND ACCESSIBILITY AISLE IS 13' WIDE

TYPICAL HANDICAP PARKING SPACE AND STRIPING PLAN (FOR REFERENCE ONLY) - NTS

SITE ACCESSIBILITY NOTES

- A. REFER TO SITE PLAN FOR EXACT LOCATION OF HANDICAP PARKING, ACCESSIBILITY AISLES, WALKWAYS AND RAMPS.
- B. ALL WALKWAYS, RAMPS, AND HANDICAP PARKING SIGNAGE, ETC. SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
- C. ONE OUT OF EVERY SIX (6) ACCESSIBLE PARKING SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.
- D. ACCESSIBLE RAMPS: REFER TO SITE PLAN FOR TYPE/STYLE OF HANDICAP RAMP(S).
- E. FINISHED GRADES OF PAVEMENT IN HC PARKING AND ACCESSIBILITY AISLE SHALL NOT EXCEED 1:50 SLOPE IN ANY DIRECTION.

HANDICAP ACCESSIBILITY ROUTE NOTES

ALL ACCESSIBILITY ROUTES SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.

A. ACCESSIBILE ROUTES MUST CONNECT HC PARKING SPACES TO ACCESSIBLE ENTRANCES.

- ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, RAMPS AND CURE RAMPS EXCULDING THE FLARED SIDES. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE ADA REQUIREMENT.
- C. THE PREFERRED LOCATION FOR ACCESSIBLE ROUTES IS IN FRONT OF THE PARKED VEHICLES
- D. HC PARKING ACCESS AISLES MUST JOIN TO AN ACCESSIBLE ROUTE.
- E. WHEN ACCESSIBLE ROUTES CROSS VEHICULAR TRAVEL LANES, MARK THE CROSSINGS TO ENHANCE PEDESTRIAN SAFETY.
- F. ENSURE THE CLEAR WIDTH OF THE ACCESSIBLE ROUTE IS NOT OBSTRUCTED. IF NEEDED, INSTALL PARKING BLOCKS ON PARKING STALLS TO PREVENT VEHICLE OVERHANGS FROM REDUCING THE CLEAR WIDTH OF THE ACCESSIBLE ROUTE.

HANDICAP RAMP GENERAL NOTES

MMPS SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS NOAL ACCESSIBILITY CODE.

- A. SLOPE: RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 13:1
- B. CROSS SLOPE: CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 64:1.
- C. CLEAR WIDTH: THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36" MINIMUM
- D. RISE: THE RISE FOR ANY RAMP RUN SHALL BE 30" MAXIMUM.
- E. HANDRAILS: RAMP RUNS WITH A RISE GREATER THAN 6" SHALL HAVE ADA COMPLIANT HANDRAILS.
- F. EDGE PROTECTION: ADA COMPLIANT EDGE PROTECTION SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH RAMP LANDING. RAMP LANDINGS:
- A. RAMPS SHALL HAVE LANDINGS AT THE TOP AND BOTTOM OF EACH RAMP RUN.
- B. SLOPE: LANDINGS SHALL BE RELATIVITY LEVEL WITH SLOPES NOT STEEPER THAN 64:1 IN ANY DIRECTION.
- C. WIDTH: THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
- D. LENGTH: THE LANDING CLEAR LENGTH SHALL BE 60" LONG MINIMUM.
- E. CHANGE IN DIRECTION: RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 50" X 50" MINIMUM.

HANDICAP CURB RAMP NOTES:

ALL RAMPS SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.

- A. SLOPE: RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 13:1.
- C. SIDES OF CURB RAMPS: WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.
- D. LANDINGS: LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS, RAMP LANDINGS SHALL BE 4'MIN, X 4'MIN, (5'X5' PRECERED) WITH A 64'I OF FLATTER CROSS SLOPE AND RUNNING SLOPE, WHILE RAMPS MAY BE SERVEND FOR THE CROSSWALS. THE THE CROSSWALS THAT THE RAMPS SERVES AND CANNOT BE LOCATED IN THE TRAVELED LANE OF OPPOSING TRAFFIC. HE BOTTOM LOCOL OT THE RAMPS HALD CHANCE PLANS EPREPAIDLIZED IN THE LOCATED THE CORD STALL BE FLUSH WITH HE EDGS OF THE ADJACENT PAYMENT AND GUTTER AND SURFACE SLOPES HALD MEST GRADE BREAKS SHALL ALSO BE FLUSH.
- E. LOCATION: CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES, CURB RAMPS AT MARKED COSSINGS SHALL BE WHOLLY CONTINUED WITHIN THE MARKINGS, EXCLUDING MAY
- F. DIAGONAL CURB RAMPS: DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR DITHER WELL—DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOITTOM OF DAGONAL CURB HAMPS SHALL HAVE A CLEAR SPACE 48 INDRES MINIMUM OUISING ACTIVE TRAFFIC LAMES OF THE ROADWAY, DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SKALL PROVIDED HAVE AS INCHES MINIMUM CLEAR SPACE WITHIN THE MARKED SIDE. CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CORE 3 HAVES LONG MINIMUM LOCATED ON EACH TO CORD SHALL SHALL
- G. ISLANDS: RAISED (SLANDS IN CROSSINGS SHALL BE CUIT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIUMU BY 38 INCHES WORE MINIUMU (48" PREFERENCE) AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIUMU BY 38 INCH MINIMUM (48" PREFERRED) AREA SHALL BE CHESTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE HUNNING SLOPE OF THE CURB RAY IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM (48" PREFERRED) AREAS AND THE ADDESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.
- H. DRAINAGE: CONTRACTOR IS TO ENSURE THE BASE OF EACH CONSTRUCTED CURB PRAMP ALLDWS FOR PROPER DRAINAGE, WINDOW EXCELLING ALLOWABLE CROSS SLOWE OR PRAMP VERTICAL CHANGE IN LEVEL EXCELLING 5° BETWEEN 1-HE 1) PAYEMENT AND GUTTER, AND 2) GUTTER AND RAMP, ARE NOT ALLOWED.
- SURFACE TEXTURE: TEXTURE CONCRETE SURFACES BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES TO BE ROUGHER THAN THE ADJACENT WALK.
- J. JONISS, PROME EXPANSION, JOINTS IN THE CURB BAMP AS EXTENSIONS OF MALK JUNIS AND CONSISTENT WITH ITEM BOOKS AS REQUIREMENTS FOR A INVESTIGATION FRONCE OF JUNIS FRONCE OF JUNIS AROUND THE FORE AROUND JOINT FILLER AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALKS LINKES SHOWN ON THIS DRAMMS HOLDCART THE RAMP EDGES AND SIDEO CHANGES, AND ON DO NOT NECESSARILY INDICATE JOINT
- K, EXISTING SIDEWALKS; IN EXISTING SIDEWALKS, WHERE THE MAXIMUM RAMP SLOPE (13:1) IS NOT FEASIBLE DUE TO SITE CONSTRAINTS (E.G. UTILITY POLES OR VAULTS, RIGHT-OF-WAY LIMITS) IT MAY BE REDUCED AS FOLLOWS:

6:1 OVER A MAX. RUN OF 2'-0" FOR HISTORIC AREAS WHERE A FLATTER SLOPE IS NOT FEASIBLE.

TO PREVENT CHASING THE GRADE INDEFINITELY, THE TRANSITION FROM EXISTING SIDEWALK TO THE SHADED CURB RAMP AREA IS NOT REQUIRED TO EXCEED 15 FEET IN LENGTH.

DETECTABLE WARNINGS, IF REQUIRED:

- A. INSTALL DETECTABLE WARNING ON CURB RAMP WITH APPROVED MATERIALS. THE DETECTABLE WARNING SHALL EXTEND THE FULL WORLD OF THE CURB RAMP (EXCLUSIVE OF FLARED SIDES) AND SHALL EXTEND ETHER THE FULL IDEPTH OF THE CURB RAMP OR 24 NOHES DEED MINIOWA MEASURED FROM THE ROAM FOR THE GLARE SIDERFACE.
- B. INSTALL ALL PROPRIETARY PRODUCTS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- C. THE DEPTH OF CONCRETE UNDERNEATH DETECTABLE WARNING PRODUCTS SHALL BE A MINIMUM OF 4" THICK.
- D. COLOR OF DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND RAMP (BLACK IS NOT AN ACCEPTABLE COLOR).

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DC-780 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS. THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE ASSHTIO LIKED BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2; SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED. TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBE LOAD CONTRIBUTATIONS SHALL INCLUDE 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LUC LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-19) COVER LOAD AND 5) ALLOWAGUE COVER WITH PRAKED (1-VIEEK) AASHTO DESIGN TRUCK
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LIGS
 TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS
- THAM 2",

 TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, 8) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF A STIM P2418 SHALL BE GREATER THAM OR EQUAL TO 550 LBSINININ, AND 6) TO RESIST CHAMMER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 9. CHAMBERS AND ENDICAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE DC-780 CHAMBER SYSTEM

- STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A
 PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS STORM/ECH RECOMMENDS 3 BACKFILL METHODS:

 STORM/ECH ACCOMMEND STAR DOZER OF THE CHAMBER BED.

 BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.

 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMPERS
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:

 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 NO RUBBER TIRES OLADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMITCH SC 37956-74900-7590 ONSTRUCTION QUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STOVE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-898-892-2694 With any QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION FOLIPMENT

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HALLMAR STUDENT HOUSING CITY OF CINCINATTI UNDERGROUND DETENTION DETAILS

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DATE 11-3-202

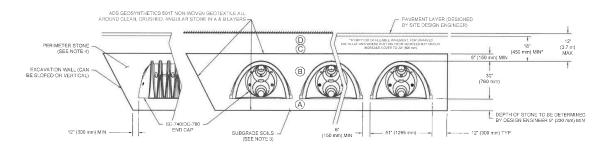
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMEN	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY SE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS, CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS, PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.	
С	INITIAL FILL: FILL MATERIAL FOR LAYER C'STARTS FROM THE TOP OF THE EMBEDMENT STONE (B'LAYER) TO 18' (450 mm) ABOVE THE TOP OF THE CHAMBER NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER	GRANULAR WELL-GRADED SOLVAGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER	AASHTO M145' A-1, A-2-4, A-3 OR AASHTO M43' 3, 357, 4, 467, 5, 66, 7, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (S00 mm) OF MATERIAL OVE THE CHAMBER'S IS REACHED. COMPACT ADDITIONAL LAYERS (*160 mm) MAX LIFST OF AMIN 95% PROCIOTO BEINSTY FOR WELL GRADED MATERIAL AND 95% RECLATIVE DENISTY FOR PROCESSED AGGREGATE MATERIALS ROLLED GROSS VEHICLE WEIGHT NOT TO EXCEED 1/2,000 its (58 MM). DYNAMII FOR NOT TO EXCEED 2/2,000 its (59 MM).	
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M431 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.	
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43° 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}	

- PLEASE NOTE:

 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

 2. STORMITECH COMPACTION REQUIREMENTS ARE MET FOR X: LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 0" (220 mp) (MAX) LIT'S USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

 3. WHERE INFILITATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMITECH FOR COMPACTION, PROVIDED TO THE PROVIDED TO THE
- OMERATION RECORDS ANY SOLUMATERIAL CAN BE PLACED IN LAYER 3" UP TO THE FINISHED GRADE: MOST PAVEMENT SUBRASE SOLLS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 3" OR 10" AT THE SITE DESIGN ENGINEERS DISCRETION.



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-169, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- 2. DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH
- CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2'
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550
 - LBS/INVIN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW

StormTech® Chamber System

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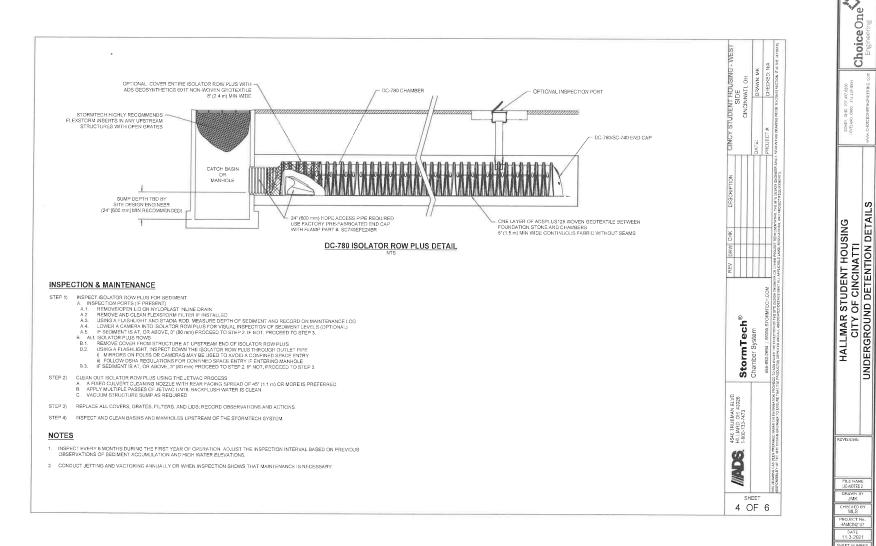
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HALLMAR STUDENT HOUSING CITY OF CINCINATTI UNDERGROUND DETENTION DETAILS

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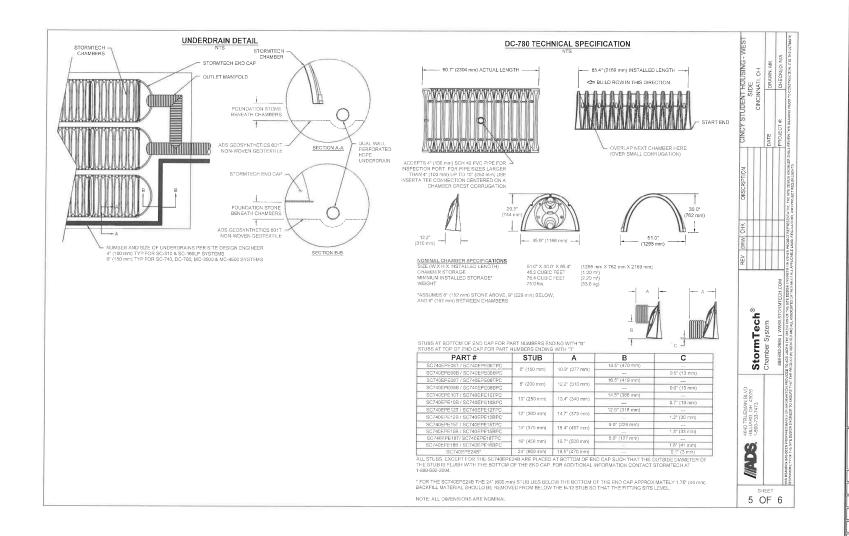
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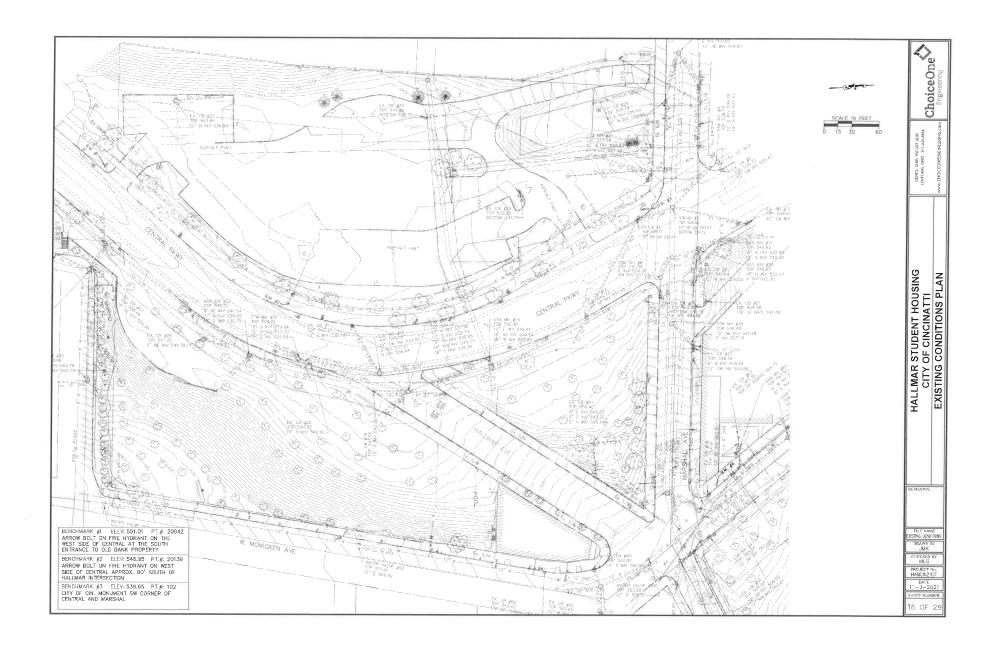
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HALLMAR STUDENT HOUSING
CITY OF CINCINATTI
UNDERGROUND DETENTION DETAILS

EVISIONS

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PROJECT No. HAMCIN2107 DATE 11-3-2021



EXISTING UTILITY NOTES:

CONTRACTOR SHALL DETERMINE THE TYPE OF SERVICE FOR ALL EXISTING UNDERGROUND LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION AND SHALL ENSURE THE FOLLOWING:

 THAT ALL EXISTING STORM LINES OR ANY OTHER EXISTING CLEAN WATER DRAINAGE LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE OR NEED TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO THE PROPOSED OR EXISTING STORM SEWER.

- 2. THAT ALL EXISTING SANITARY LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROULDED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING SANITARY SEWER LINES/STRUCTURES OR HITO PROPOSED SANITARY SEWER LINES/STRUCTURES.
- 3. THAT ALL EXISTING WATER LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED. AS RECEDED TO ENSURE THAT THEY ARE COUNTED INTO ACTIVE EXISTING WATER LINES OR INTO PROPOSED WATER LINES

WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REP. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

LOCATE EXISTING UTILITIES NOTE:

THIS TIEM OF WORK MAY BE PERFORMED ON AS NEEDED BASIS AND SHALL CONSIST OF THE CONTRACTOR FIELD LOCATING THE VARIOUS EXISTING UTILITY LINES LOCATION, SIZE, AND DEPTH PRIOR TO PERFORMING ANY PROPOSED WORK OR ONCE WORK HAS BECOLD. THIS WORK MAY ALSO REQUIRE THE CONTRACTOR TO INSPECT THE LINES BY OTHER METHODS SUCH AS DETECTING OR CAMERA/VIDEO TO FIND THE ORIGIN AND LOCATION OF THE LINE. THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE OWNER AS NEEDED TO ENSURE EXISTING FACILITY OPERATIONS ARE MAINTAINED.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REPRESENTATIVE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

UNKNOWN EXISTING UNDERGROUND UTILITIES:

ONNAMOWN EASTING UNDERSTREED JULI THERE MAY BE OFFICE UNKNOWN SERVICES OR UNKNOWN CONTRACTOR TO BE AWARE THERE MAY BE OFFICE UNKNOWN SERVICES OR UNKNOWN UNDERGROUND UTILITIES OR TITES WHICH MAY BE LICCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REPOUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. ONTIFACTOR SHALL MOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER TEAMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE THEMS SHOULD BE

GAS, ELECTRIC, COMMUNICATION CONFLICT NOTE:

CONTRACTOR TO LOWER/OIP THESE UTILITIES AS NEEDED TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING SANITARY OR STORM OR WATER LINES THEY MAY CONFLICT WITH, IF THESE UTILITY LINES CONFLICT WITH ANY PROPOSED OR EXISTING WATERLINES THEN CONTRACTOR TO DETERMINE WHETHER TO LOWER/DIP THE WATERLINE OR LOWER/DIP THE GAS/ELECTRIC/COMMUNICATION LINE(S). CONTRACTOR MAY NEED TO CONSULT WITH AND OBTAIN OWNER'S APPROVAL AS TO WHICH UTILITY WILL BE LOWERED PRIOR TO PERFORMING THIS WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM

ELECTRICAL/MECHANICAL NOTE:

ELECTRICALIMENTAL REFER TO THE ELECTRICAL/MECHANICAL DRAWNOS FOR DEMOLITION ON THE STATE AND A STATE OF THE STATE OF THE STATE OF THE STATE AND A STATE OF THE ST

EXISTING "APPROXIMATE" AND/OR "PER PLANS" UNDERGROUND UTILITIES NOTE:

EXISTING UNDERGROUND UTILITIES LABELED AS "APPROXIMATE" AND/OR "PER PLANS"
HAVE SEEN SHOWN BASED ON PREVIOUS PLANS AND OLD STE INFORMATION AND THEIR
EXACT LOCATION, DEPTH, SET, "TYPE, SLOPE, ETC. ARE UNITENNEWN. CONTRACTOR SHALL
TAKE "FIRS INTO ACCOUNT FOR ALL WORK RELATED TO AND/OR INVOLVING THESE
UTILITIES AND SHALL FIELD VERFY AND/OR DETERMINE ALL NFO FOR THESE UTILITIES PRIOR TO CONSTRUCTION.

STORM SEWER UNDER BUILDING NOTE:

ANY STORM SEVER UNDER BUILDING MOIE:

ANY STORM SEWER PHING OR STRUCTURES THAT ARE TO BE INSTALLED UNDER AN EXISTING OR PROPOSED BUILDING SHALL CONSIST OF METALLICATIONS THAT ALL OR EXCEPTION AND SHALL BUILDING OF REQUIREMENTS AND SHALL BE INSTALLED PER ALL BUILDING CODE REQUIREMENTS. CONTROL BY ALL BUILDING CODE REQUIREMENTS. SET STRUCTURES PER AND AS REQUIRED BY ALL BUILDING CODE REQUIREMENTS. SEE PLUMBING PLANS AS APPLICABLE



STANDARD DUTY CONCRETE PAVEMENT

ITEM 452 - 5" NON-REINFORCED CONCRETE PAVEMENT WITH 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM 0 1118 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHINS PROCEDURES ON

ITEM 304 - 6" AGGREGATE BASE ON ITEM 204 - SUBGRADE COMPACTION



HEAVY DUTY CONCRETE PAVEMENT

HEAVY DUTY CURCHETE PAYEMENT
ITEM 452 – 8" NON-REINFORCED CONGRETE PAYEMENT WITH 3 LBS/CY OF EITHER EUCLID
CHEMICAL TURSTRAND SF, FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED
COUNTAINT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LDNGTH, ASPECT RATIO 50 TO 90,
CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SLIPHLER 48 HOURS PRIOR TO
ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING
PROCEDURES ON

ITEM 304 - 6" AGGREGATE BASE ON ITEM 204 - SUBGRADE COMPACTION



HEAVY DUTY ASPHALT PAVEMENT

HEAVY DUTY ASPHALT PAVEMENT
ITEM 441 - 1 1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (448) PG 64-22 ON
ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.06 GALLONS PER SQUARE YARD) ON
ITEM 407 - 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSET, TYPE 2, (448) ON
ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.06 GALLONS PER SQUARE YARD) ON
ITEM 301 - 3" ASPHALT CONCRETE BASE (2) EQUAL LIFTS) ON
ITEM 304 - 8" AGGREGATE BASE (2) EQUAL LIFTS) ON



REGULAR DUTY ASPHALT PAVEMENT

TIEM 441 – 1 1/2" ASPHAIT CONCRETE, SURFACE COURSE, TYPE 1, (448) PG 64-22 ON TIEM 407 – NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.05 CALLONS PER SQUARE YARD) ON TIEM 407 – 1/2" ASPHAIT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (448) ON TIEM 304 – 6" ACORCOATE BASE (2 EQUAL LIFTS) ON TIEM 304 – 6" ACORCOATE BASE (2 EQUAL LIFTS) ON TIEM 204 – SUBGRADE COMPACTION



CONCRETE SIDEWALK AND CURB/WALK COMBINATION

ITEM 608 - 4" CONCRETE SIDEWALK WITH 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90, CONTRACTOR SHALL CONTACT THE FIRST BATCH OF CONCRETE FOR MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO GROENING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES ON ITEM 411 – 4" STABILIZED ACCRECATE BASE



PROPOSED BUILDING

PAVEMENT STRIPING NOTES:

ANY PROPOSED PAVEMENT MARKING SHALL BE STRIPED AS PART OF THIS WORK.

ALL PAVEMENT MARKING LINES SHALL BE WHITE OR YELLOW (DO NOT REQUIRE REFLECTOR BEADS) AND SHALL CONSIST OF 4" WIDE LINES.

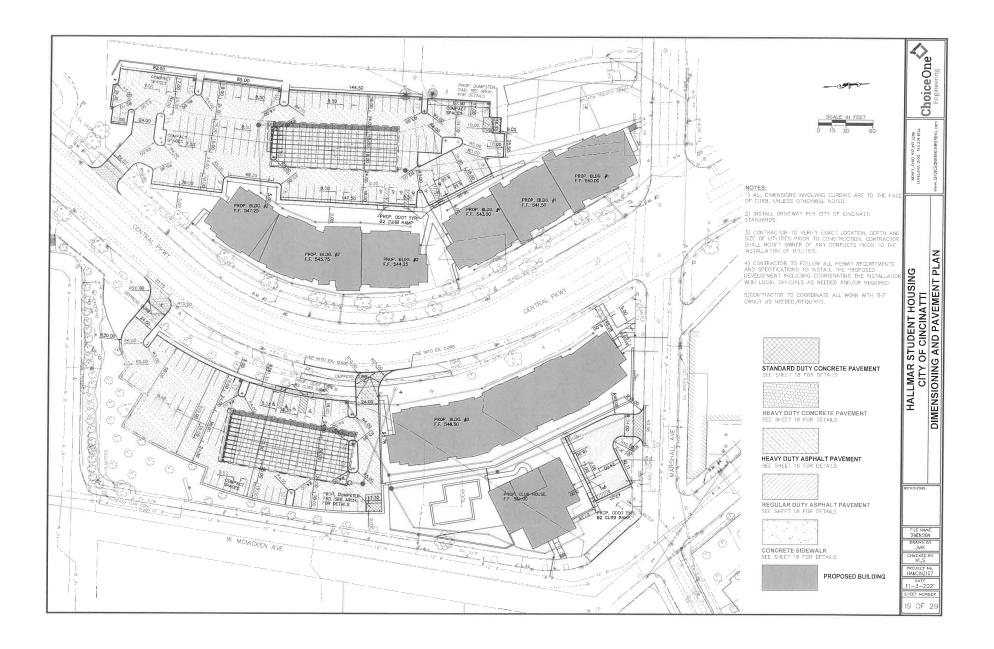
ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE I, INLESS APPLICATION IS REQUIRED WHEN AIR AND PAYMENT TEMPERATURES ARE BETWEEN 35 % AND 50 %, THEN OSTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT WATERIALS PER ITEM 642 AND 740.

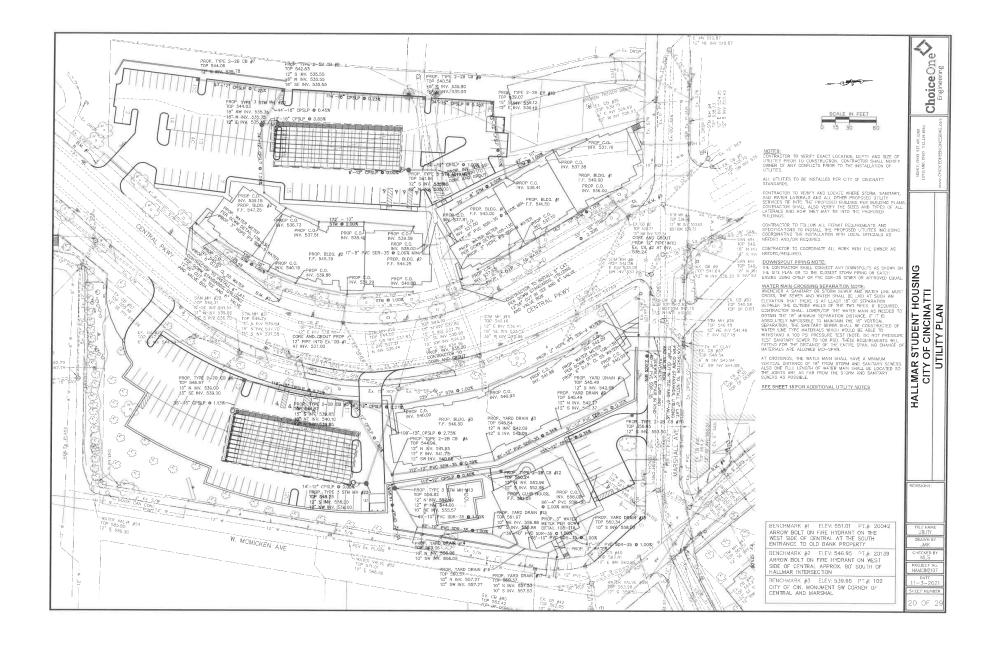
ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

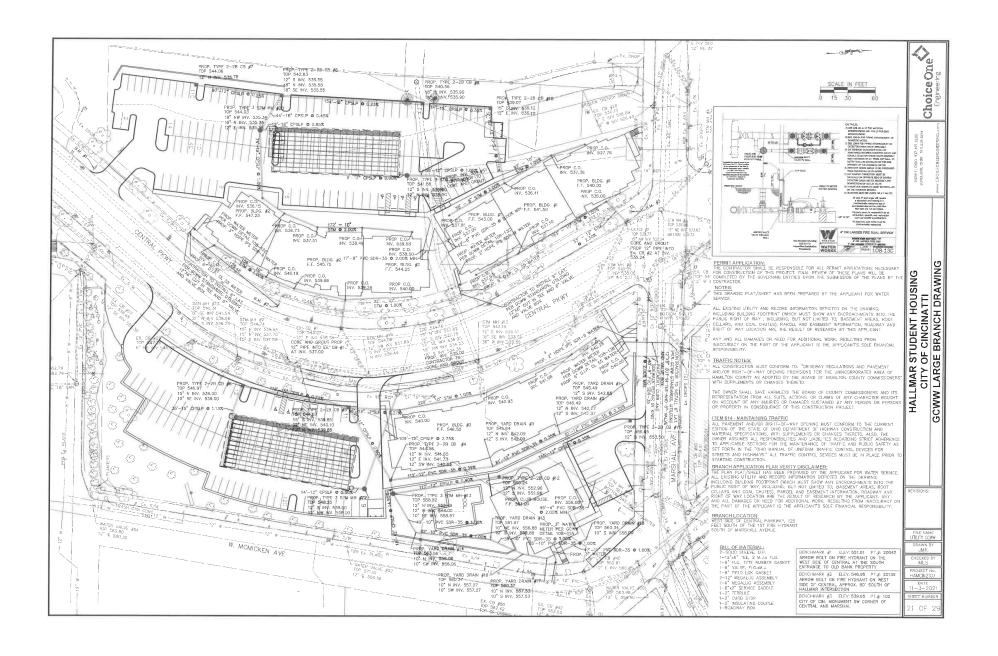
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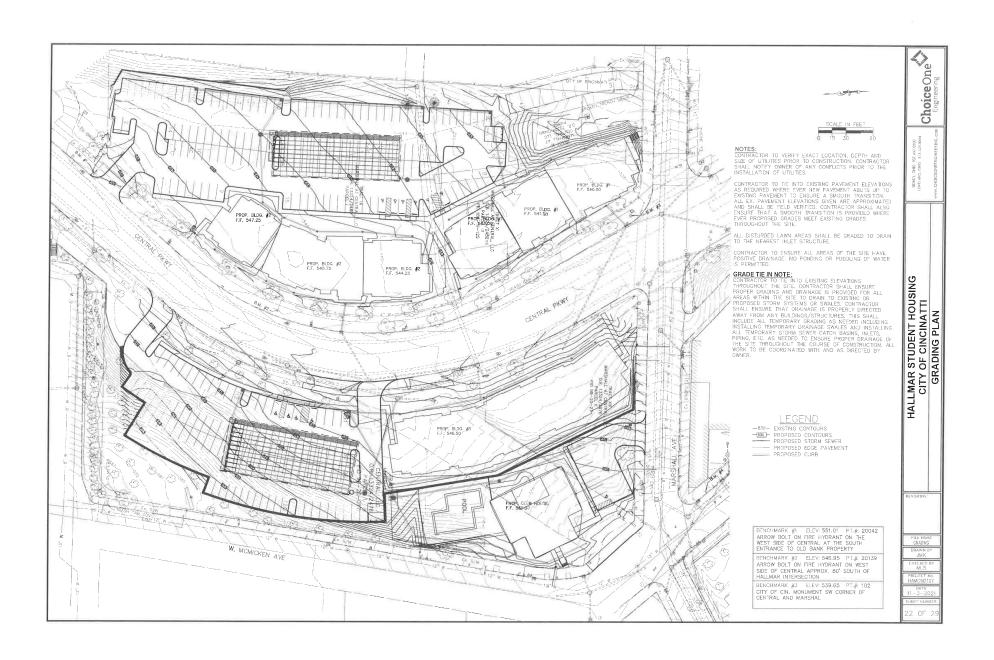
HALLMAR STUDENT HOUSING CITY OF CINCINATTI SITE PLAN SHEET NOTES

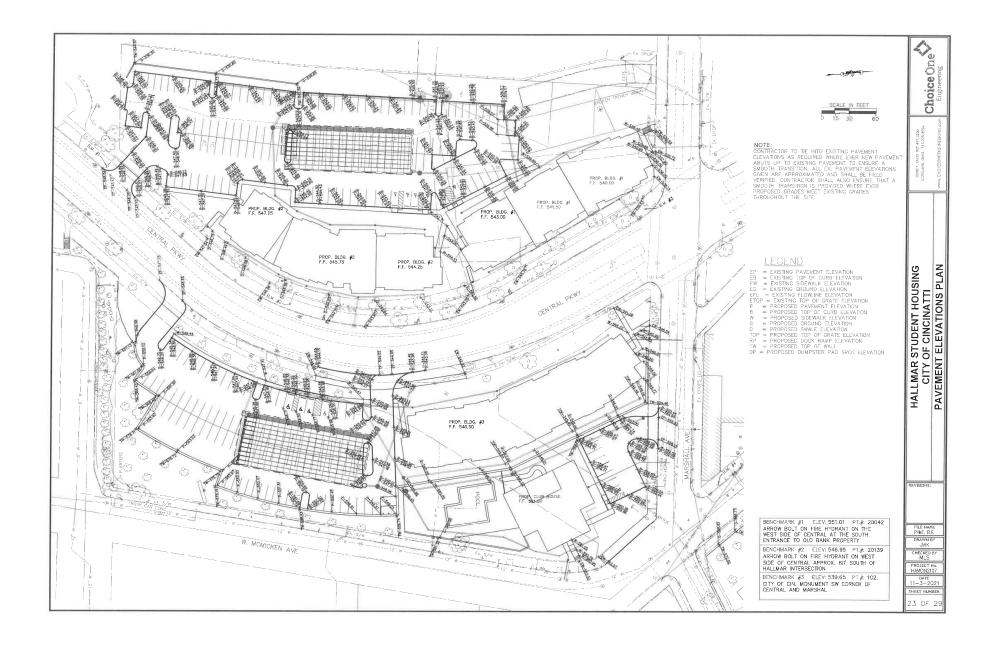
PLAN SHEET JMK DATE 11-3-202

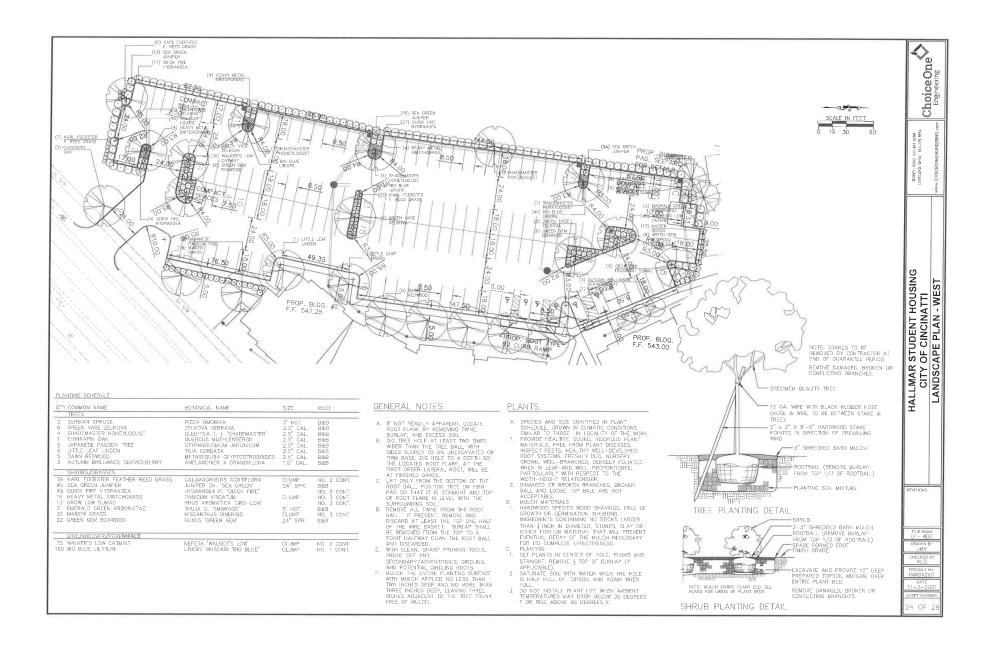


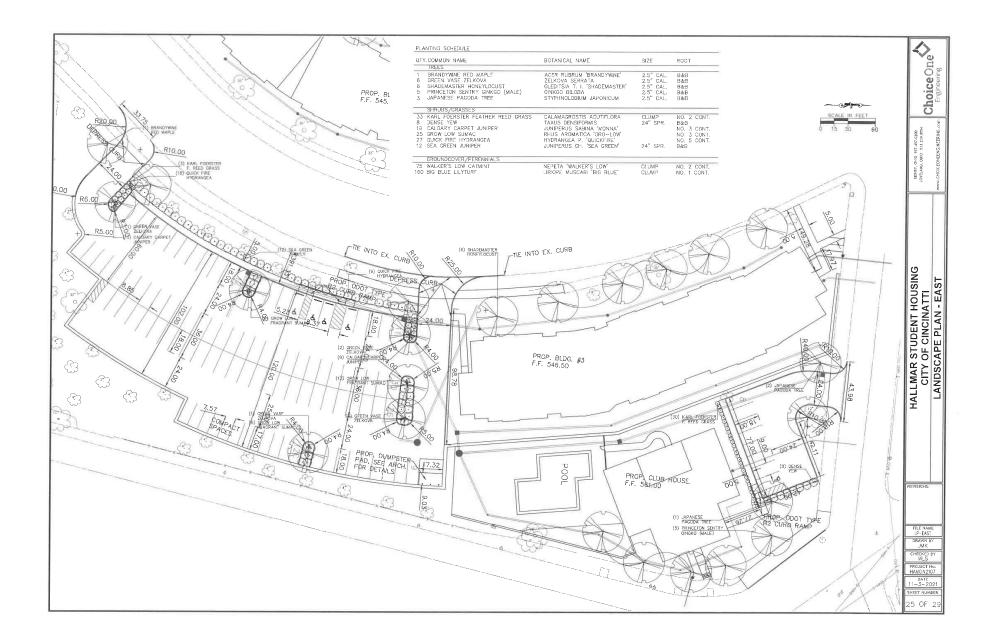












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(TYP. INLET PROTECTION, FILTER FABRIC FENCE, ETC.).

DURING CONSTRUCTION — THE CONTRACTOR MUST MAINTAIN EROSION CONTROL UNTIL AREA IS STABILIZED INCLUDING TEMPORARY SEEDING AS NEEDED, CONTRACTOR SHALL TEMPORARYLLY SEED ALL CRITICAL EXPOSED SLOPES TO MINIMIZE SEDIMENT RUNOFF,



TOR ALL BUPS INSTALLED, DISURE THAT THE PONDING OF WATER SHAMD THE SMP WILL NOT DAMAGE PROPERTY OF POSE A SAFETY PHETAL I. IF PERIODIC INSPECTIONS OF OTHER INFORMATION NOTCHES A CONTROL MAGNETIC PROPERTY OF THE INFORMATION OF THE PROPERTY OF THE INFORMATION OF THE PROPERTY OF THE INFORMATION OF TH

MAINTENANCE NOTE

WAINT ENANCE NOTE

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE ALL TEMPORARY AND
PERMANENT CONTROL. PRACTICES SHALL BE MAINTAINED AND REPARED AS MEDIED TO BISURE
CONTINUED PREFORMANCE OF THEIR INTENDED FUNCTION. ALL SEGMENT CONTROL, PRACTICES
MUST BE WAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP—SLOPE AREAS THEY
CONTROL ARE PREMANENTLY STRAILED. THE SWYS SHALL BE DESONAD TO MINIMIZE
MAINTAINED REPARAMENTLY STRAILED. THE SWYS SHALL BED ESONAD TO MINIMIZE
MAINTAINED REPARAMENTLY STRAILED. THE SWY SHALL BED SHOOTED OF MAINTENANCE
PROCEDURES NEEDED TO ENSURE THE CONTRIBUTE PREPARAMENCE OF CONTROL PRACTICES.

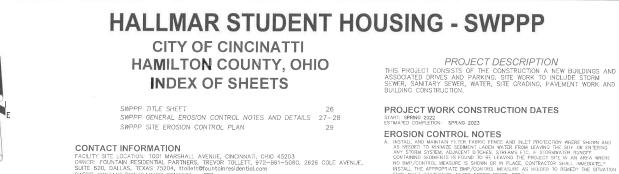
SWPPP AND INSPECTION AVAILABILITY AND UPDATES NOTE

THE CONTRACTOR SMALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE SWAPP AND INSPECTION BEPORTS ON SITE. THE CONTRACTOR SMALL ALSO BE SOLELY RESPONSIBLE TO PERFORM AND DOCUMENT ALL REQUIRED SWAPP INSPECTIONS AND ALL DRAFTS TO THE SWAPP.

DOCUMENTATION AND GOVERNMENT INSPECTION

CO-PERMITTEE APPLICATION AND ANY OTHER DOCUMENTATION THE CONTRACTOR(S) MAY SEND OR RECEIVE FROM THE CEPA OR ANY OTHER GOVERNING AUTHORITIES.

IF AN INSPECTOR OR REPRESENTATIVE FROM THE GEPA OR ANY OTHER GOVERNING AUTHORITY IS ON-SITE. THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND NOTIFY THE OWNER'S REPRESENTATIVE



CONTACT INFORMATION

FACILITY SITE LOCATION: 1001 MARSHALL AVENUE, CINCINNATI, CHIO 45203 OWNER: FOUNTAIN RESIDENTIAL PARTNERS, TREVOR TOLLETT, 972—861—5080, 2626 COLE AVENUE, SUITE 620, DALLAS, TEXAS 75204, ttollett@fountoinresidential.com SWPPP CONTACT/CONTRACTOR CONTACT - TBD

SWPPP AND INSPECTION REPORTS LOCATION

NOTE: THE SWPPP AND INSPECTION REPORTS WILL BE KEPT ON-SITE IN THE JOB TRAILER/FOREMAN'S PICK-UP

WASTE DISPOSAL NOTE

CONTAINERS (e.g. DUMPSTERS, DRUNS) MUST BE AVAILABLE FOR THE DISPOSAL OF DEBRIS, TRASH, HAZARDOUS MATERIAL AND PETROLEUM WASTES, ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

CLEAN HARD FILL NOTE

NO CLEAN CONSTRUCTION WASTES SHALL BE DISPOSED OF INTO THE PROPERTY.

FUELING AND STAGING NOTE

CONTRACTOR'S STACING AND STORAGE AREA WILL BE LOCATED WITHIN CONSTRUCTION LIMITS OF THE PROJECT, FUEL TANKS AND OTHER HEAZARDOUS WATERHALS TO BE SAFELY STORED, PROTECTED, AND PROPERLY HANDLED BY CONTRACTOR. CONTRACTOR SHALL TAKE ALL ACCESSARY MEASUREST OF INSURE NO POLULIANTS FROM THE STRONG/STORAGE AREA LEAVE THE SITE OF ENTER ALJACENT SUPPRACE WATERS OR THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ANY WASTE MATERIAL OF THE STORM SYSTEM.

SOIL STOCKPILE NOTE

CONTRACTOR'S SHALL LOCATE SOIL STOCKFILE AREAS WITHIN THE PROJECT AREA SO AS NOT TO BE WITHIN THE IMMODIATE PROXIMITY OF ANY SUBFACE WATERS OR STORM INLET STRUCTURES, CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO DUSINE IN POLICULATIONS FROM THE STOCKHIEL AREA LEAVE THE STOR RITHER ADJACENT SURFACE WATERS OR THE STORM SYSTEM, THESE MASSINES MAY INCLUDE BUT SHALL NOT BE LIMITED TO INSTALLING FILTER FARBOR, FERCE AGOUND STOCKPILE, TEMPORARILY SOMEONED THE STORMED STRUCTURE AND OF TEMPORARILY SECENOR THE

DEWATERING NOTE

DEWALERING NOIE

PURPING OF SIGNMENT LODEN WATER FROM TRENCHES OR ANY OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, DICH OR STEEM CORROOMS, ANY WELLANDS OR STORM SIGNESS IS PROHIBITED. ALL SUCH WATER SHALL BE PROPELY ELIZEDED OR ENTER SOIL PARTICLES PROME TO ITS RELEASE. FAR AREA OF THE SITE OF TRENCH NEED THE PROPELY ELIZEDED OR STEED ON THE PROME TO THE PROME THE PROME THE PROPELY ELIZEDED OR STEED ON THE PROME THE PROME THE PROME THE PROPERTY OF THE

LOG/DOCUMENTATION SHEETS

AS PART OF THE SWPPP, THE CONTRACTOR SHALL MAINTAIN LOG/DOCUMENTATION SHEETS FOR THE FOLLOWING:

MEDIA UNITE LOG CONTRAINING THE SOMATURES OF ALL CONTRACTIONS AND SUBCOMPACTORS INVOLVED IN THE

MEDIA OF THE SWPPP, SHOULD ARMONEDED AND THAT THEY REVERED AND UNDERSTAND THE CONTRIVENS AND

RESPONSIBILITIES OF THE SWPP.

ENFORMMENT OF THE SWIPP.

) A GRADING AND STABILIZATION LOG DOCUMENTING THE PROJECTS GRADING AND STABILIZATION ACTIVITIES AND

) A SWAPP AVENUMENT LOG DOCUMENTING CHANGES/AMENDMENTS TO THE SWIPP, WHICH OCCUR AFTER CONSTRUCTION

CONTINES COMMENCE.

Choice One Engineering

440 E. HOEWISHER ROAD + SIDNEY, OHIO 45365 + 937.497.0200 8956 GLENDALE MILFORD ROAD, SUITE 1 + LOVELAND, OHIO 46140 513.239.8554

www.CHOICEONEENGINEERING.com

NOVEMBER 3, 2021

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SWPPP NOTE SWPPP NOTE

THIS STORMARTER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR FOUNTAIN RESIDENTIAL
PARTNERS FOR THE PERFORMANCE OF PALLIMAR STUDENT HOUSING PROJECT IN HAMILTON COUNTY, OHIO, ALL
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PARTNERS FOR THE PERFORMANCE OF PALLIMAR STUDENT HOUSING PROJECT HAMILTON COUNTY, OHIO, ALL
IN SITE WORK ON THE SITE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS, INSTALLATION, ANATYMANCE ON
PARCHIMENTS OF DOT'S CHEERET SUPPLEMENTAL SPECIFICATION \$22 THAN PRACTICAL AND EROSION
CONTROL." COMPULANCE WITH SUPPLEMENTAL SPECIFICATION \$25 SHALL INCLIDE THE STANDARD CONSTRUCTION
PARAMOR REPERBECES LISTED IN SECTION 320, BUT SHALL NOLLING LING SETTING SECTION SET STORM
OWNERS OF THE STANDARD ON STRUCTURE SHALL BE FER THE OPPA CONSTRUCTION SITE STORM
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SITE DATA

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VICINITY MAP

WATERS EDGE NOTE

ALL MATERIAL AND EQUIPMENT STADING OR STORAGE AREAS, DEWATERING AREAS, CONCRETE TRUCK WASH OUT AREAS, CONSTRUCTIVO ACCESS LOCATIONS, AND VEHICLE FUELNO AND REFUELNO LOCATIONS MUST BE LOCATED A MINIMUM OF 100° FROM ANY CREEK, PREMY STREAM WATERS EDGE.

CLEAN STORM SYSTEM NOTE

MMEDIATELY PRIOR TO FINAL COMPLETION OF THE PROJECT, CONTRACTOR SHALL ENSURE THE ENTIRE STORM SYSTEM, INCLUSING BUT NOT LUMIED TO, THE DETENTION/RETURNION BASIN(S), CATCH BASINS, MANHOUES, PIPING, UNDESPANS AND UNDERPRIANT INTENDED ARE FREE FROM SEMENTIATION AND OTHER POLLUTATION AND FOREIGN MATERIALS AND ARE TO BE CLEANED AS NEEDED TO ENSURE MAXIMUM STORMWATER QUALITY AND FULL FUNCTIONALITY.

OFFSITE CONSTRUCTION ACTIVITIES

T IS EXPECTED ALL CONSTRUCTION ACTIVITIES WILL TAKE PLACE ON SITE

SPILL REPORTING REQUIREMENTS

IN THE EVENT OF A SMALL RELEASE (LESS THAN 2'S GALLONS) OF PETROLEUM WASTE, SPECIAL HANDING PROCEDURES MUST BE USED. IN THE EVENT OF A LARGE RELEASE (25 GALLONS OR MORE) OF PETROLEUM WASTE, YOU MUST CONTACT THE OHO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPHIL OF 25 OR MORE GALLONS

VEHICLE FUELING

VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED VIA A SMALL REFUEL TANK ON THE BACK OF A PICK-UP TRUCK.

OPEN BURNING NOTE

NING IS NOT PERMITTED IN THE CORPORATION LIMIT.

G **HOUSIN** 늘 ш STUDI 2

(EROSION CONSTRUCTION SEQUENCE)

EXPRINCIPE OF 173 APPAINT DEPETEDENTINES MIL ACQUÉ RESPONDENTE PO RESPUEDO, ANO REPRESENTA MA INFRANÇA DE AL LOS PROGESIO CONTRES MANDESSE DERINO CONSTRUCTION DE RESPUEDA DE VITE DE DE PROSE DE ALVO GRADADO DE CONTRES DE CONTRES DE LOS PROGESIONES DE LOS PROGESIONES DE PROSE DE ALVO GRADADO DE PROFESSO DE LOS PORTIDIOS DE DE DESALLO AS SOUN DE SEPRE DE FERRO DE ALBO PROGESIONES DE LOS PROFESSOS DE LOS PROFESSOS DE PROFESSOS DE LOS PROFESSOS DE LOS PROFESSOS DE PROFESSOS DE LOS PROFESSOS DE LOS PROFESSOS DE PROFESSOS D

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INSPECTED.

**ATTER ANY STORM EVENT ORIGITIES THAN ONE-HALF INCH OF RAIN PER 24-HOUR PERSON BY THE END OF THE NEXT CALENDAR
DAY, EXCLUSING MEXICADES AND INCLUDATE UNLESS WORK IS SCHEDULED; AND

**ONCE TURES EVENT OLEDAGE DAYS.

THE INSPECTION TREGUENCY MAY BE RECUEDD TO AT LEAST ONCE EVERY MONTH FOR DESMANT SITES ST. THE ENTIRE SITE ST THEOROGARY STABULZED OR. THE FOREVER SE RECOVERED. TO WHATHING COMPONINGS FOR EXTENDED PLRODS OF THME (E.C. SITE IS COVERED WITH SMOW, ICE, OR

THE BIGNING AND PHONG DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE COCCUMENTED IN THE SMPX. ONCE A DEPARABLE AND A ACHEVED THAN STABILIZATION, THE AREA MAY BE MARKED ON THE SMPX AND NO FURTHER INSPECTION REQUIREMENTS SHALL APPLY TO THAT PORTION OF THE STEE.

PROJECTION SHAPE, WHILL TO THE FROM OF THE SIZE.

THE SERVICE SHAPE OF SERVICES AS CONTROLLED AND SOUND BY THE CAMALITED INSPICTION PRISONNEL.

THE SERVICES SHAPE OF SHAPE OF

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I. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE, IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SERVINENT SETTLING PROD, IT SHALL BE REPAIRED OR MAINTAINE WITHIN 3 ONLY OF THE MARYCHINE, SERVINENT SETTLING PROOFS SHALL BE REPAIRED OR MAINTAINED WITHIN 13 DAYS OF THE INTERPECTION.

II. MHEN PRACTICES FAIL TO PROVIDE THEIR INITIATION IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTERIOR PROVIDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED. THE SMPS SHALL BE INSTALLED WHIGH TO DAYS OF THE INSPECTION.

B. MIND FRANCES CONTROL OF THE DROY ARE NOT RETURNED. THE PRESENCE REVIEW BY A CONTROL PRACTIC. AND THE REAL PROPERTY OF THE REPORT OF THE PROPERTY OF THE PRO

B. YEGETATIVE PLANTINGS — SPRING PLANTINGS MILL BE CHECKED DURING SLMMOR OR EARLY FALL. G. RIPARIS — ANY EXPOSON CONTROL MEASURES, STRUCTURAL MEASURES, ON OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE JACK MYNIN 7 DAYS. MADE INDIRECT DAYS.

ON NOWING DISMANCE WAYS, DITCHES, AND DITHER MEASURE THAT SUPPORT A DESIGNED FLOW OF MARIN MILL BE MENDED.

REQUIABLY TO MANINAN THAT FLOW.

E TENTLATION — SEEDED AFFACE WHERE THE SEED HAS NOT PROJUCED A 3000 COVER MILL BE INSPECTED AND FERTILIZED AS

CONSTRUCTION ENTRANCE

STOM: SIZE - 2" STOME SMALL RE USED. OF RECYCLED CONCRETE EQUIVALENT.

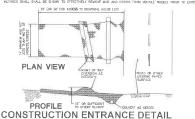
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NON-SEDIMENT POLLUTION CONTROL

DISPOSAL AND HANDLING OF MAZARDONIS AND OTHER CONSTRUCTION WASTE

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GONTY
ONNTY POUR INTO WATERWAYS, STORM DRAINS, DR ONTO THE GROUND
DON'T POUR DOWN THE SRIK, FLOOR DRAIN, DR SEPTIC TANKS
ONTY BURY CHEMICALS OR CONTAINERS
DON'T BURY CHEMICALS OR CONTAINERS
ONTY HIS CHEMICALS OR CONTAINERS

B. CONTAINERS SHALL BE PROMECD FOR COLLECTION OF ALL WASHE MATERIAL INCLUDING CONSTRUCTION DEBMS, TRASH, PERROLEUM, AND ANY HAZAROOUS MATERIAS TO BU USED ON SITE. ALL WASHE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPRINCED FOR THAT MATERIAL.

C. NO WASTE MATERIALS SHALL BE BURIED ON SITE, SITE PERSONNEL, INCLUDING SUBCONTRACTORS, SHALL BE NOTIFIED THAT NO CONSTRUCTION-RELATED MATERIALS ARE TO BE BURIED ON SITE. D. MIXING, PLUMPING, TRANSFERRING, OR OTHERMSE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPIRALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA MAY FROM ANY MATEROLUSES, LITCH, OR STORM DRAIN.

E. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAMS, IN AN AREA DESIGNATED FOR THAT PURPOSE, THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECOVERING OIL AND CATCHING SPILLS.

F. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE, A SUMP OR PIT SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER.

G. F. MAZMEOUS SUSSIMMES SUCH AS 3RL, DEREL FUEL, INTRABULC FUEL, INTERESE, ETC. ARE STELET, LEMED, OR RELASED ONTO THE SOL, IN SOL SHOULD BE DONE UP AND DISPOSED OF WITH THE TRUST AT A LICINISTO ON REPORT OF THE SOL AS WELLOW AND A SHAPELLY, DISEASON OF WARRING SOL, AS REGISTED WHITE AND A REGISTED WARRING SOL AS REGISTED WARRING SOL AS WELLOW AND SOL AS REGISTED WARRING SOL AS WELLOW SOLD SOLD AS REGISTED WARRING SOLD AS WELLOW SOLD AS REGISTED WARRING SOLD AS WELLOW AND SOLD AS RESERVED.

H. SPILLS OF 25 GAL. OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-93/8), THE LOCAL FRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE.

I. STREETS NEED TO BE SWEPT AS OFTEN AS NECESSARY TO KEEP THEM CLEAN AND FREE FROM SEDIMENT. SECUMENT TO BE SWEPT BACK ONTO THE LOT - NOT DOWN THE STORM SEMER.

J. STOCKFILES OF SOIL AND OTHER MATERIALS SHALL BE STONED AWAY FROM WATERGOURSES, DITCHES, OR STORM DRAINS, AND SHALL HAVE PROSON CONTROL MATERIALS PLACED AROUND THEM.

PROCESS WASTEWATER/LEACHATE MANAGEMENT NOTE

ALL PROCESS MASTERMATES (e.g. ECUPHICIT WASHING, LEACHATE ASSOCIATED WITH CHI-STE MASTE DISPOSAL, AND CONCRETE MASTER COLLECTED AND DISPOSED OF PROFEREY (e.g. TO A PUBLICIT-CHIED TEXTABENT WARRES). THE NOTECO CONTRIBUTION STORM WATER GATERY PREMIT ONLY ADMINISTER STORM MATERS OF STORM WATER AND CRETARY UNCOUNTAINANTED HOW-STORM WATERS. THE DISPOSAGE OF NON-STORM MATERS OF WATER AND CRETARY UNCOUNTAINANTED HOW-STORM WATERS. THE DISPOSAGE OF NON-STORM MATERS TO WATER STATE WATER OF UNCOUNTAIN CACCULA, TEAT, AND THESE, LAWS OR REQUIRATIONS.

HANDLING OF TOXIC OR HAZARDOUS MATERIALS NOTE RO SOLD, SANTARY, OR TOXIC WASTE IS TO BE DISPOSED OF ON THE PROJECT SITE. RECYCLING OF USED OR UNUS MAZARDOUS MATERIALS SHALL NOT COCUR ON SITE FITHER, AREAS DESIGNATED FOR COMENT TRUCK WASHOUTS, AND REMOLE FUEUNG SHALL NOT TAKE PLACE ON PARKING LOT BASE.

CONSTRUCTION CHEMICAL COMPOUNDS NOTE NO MIXING OR STORAGE OF CHEMICAL COMPOUNDS SUCH AS FERTILIZERS, LINE, ASPHALT, OR CONGRETE ARE PERMITTED TO TAKE PLACE ON—SITE. ALL MIXING SHALL TAKE PLACE BEFORE EXTERING THE SITE.

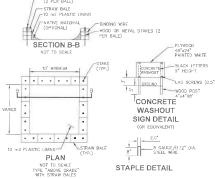
CONSTRUCTION & DEMOLITION DEBRIS NOTE

CONTAMINATED SOILS NOTE

CRITAMINATO BY PETROLEM OR OTHER SEMENTS SYMLE BE MANUED AND DEPOSED OF PROFESY. NYMANIATO SIGN MUST BE TRACTOR MAY ZAY SERVED OF M. AN OHO DRA APPROXIS DIADI WAS WENT FACULTY OR HAZARDUS WASTE TREATMENT, STORAGE OR GERSSAL, FACULTY (FISHIN, IN CONTAMINATION ST O COOLER, TAPPS ARE TO BE USED OF PREYENT STORM WATER FROM COMING INTO CONTACT WITH

CONCRETE WASHOUT NOTE

NORTH BRISONT OPPANIONS SHALL TAKE PLACE WITHIN THE PROPOSED PROJECT AFFA UTILIZING THE WYNACTUS TO RECOVER THE WASHINGTON SHALL NORTH ASSESSMENT OF THE WASHINGTON MATCHINE.



CONCRETE WASHOUT DETAIL

DUST CONTROL

CONSTRUCTION OF A FILTER BARRIER (SILT FENCE) SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CENTRALE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY LL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LEWGHT.

C. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING ARGUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION. D. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

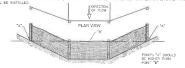
E. WHERE POSSIBLE, VECETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VECETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

THE HEIGHT OF THE SILT FIDIOE SHALL BE A MINIMUM OF 16" ABOVE THE DRIGHAL GROUND SURFACE. C. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP, THE TRENCH SHALL BE CUT WITH A TRENCHER, CARDLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADECUATELY UNFORM TRENCH DEPTH.

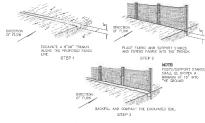
THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE THAT 8' OF CLOTH IS BELOW THE GROUND SURFACE DECESS MATERIAL SHALL LAY ON THE BOTTOM C SEEP TRENCH. THE TRENCH SHALL BE BACQUILLED AND COMPACTED.

I. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TODETHER BEFORE DRIVING INTO THE GROUND.

A MANIBANCE - DUT FREE BALL AND REACH FOR MASS ONLY AS DEFINED FOR THROUGH DE-CONDITION. ALL THE CAPE AND TEASE IN THE FINNE MASS THE ELIMANTIA AND RELIGIOUS THROUGH DE-CONDITIONS THE SILL PHIEF, CLINIC LANGE OF ARGADO THE FORM, OR IS AN OTHER WAY ECCOULD AND DURINGS THE SILL PHIEF, CLINIC LANGE OF ARGADO THE FORM, OR IS AN OTHER WAY ECCOULD AND DURINGS THE SILL PRICE AND THE FOLLOWING SHALL BY PRITOMER, AS A PROMPARIE: 1) THE LANGE OF SHALL ENTRY OF THE CONTROL OF THE PRITOMER SHALL BY PRITOMER, AS A PROMPARIE: 0, 3) THEN THE PRITOMER SHALL BY THE PRITOMER SHALL



DITCH CHECK FILTER FABRIC FENCE



DITCH CHECK FILTER FABRIC FENCE FILTER FABRIC FENCE DETAIL

CRITERIA FOR SILT FENCE MATERIAL

A. FENCE POSTS — THE LENGTH SHALL BE A MINIMUM OF 48" LONG, WOOD POSTS WILL BE 2"-BY-2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SYACING BETWEEN FOSTS SHALL BE 5". POSTS/SUPPORT STAKES SHALL BE 76". POSTS/SUPPORT STAKES SHALL BE 76". POSTS/SUPPORT STAKES

C. SLIT FENCE SHALL BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PERMANENT STABILIZATION

PERMANENT 5 LABILIZATION

AL JAERA 8 THAN LONG MUST BE PURMENTLY STRUGUED WHITH 7 JAYS OF REACHING FINAL (RADE,
HAS SE BRAILY ACCOMPLISTED BY USING SEED AND MUCUIT, BUT STRUCK MEASURES ART SOMETHINE
HAS SEED ON SO, SEED AND MUCUITATION OF SEED AN

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL DE DORWANT FOR ONE YEAR OR HORE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, MOTER BOOY, ETC.) AND AT FINAL GRADE	MITHIN 2 DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE.	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AHEA.

SOILS EXPOSED NOTE

CONTRACTOR SHALL PLAN AND IMPLEMENT CONSTRUCTION AND GRADING ACTIVITIES TO MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITIES.

SEEDING DATES	SPECIES	LB./1000 SQ. FT.	PER ACRE
MARCH 1 TO AUGUST 15	TALL FESCUE ANNUAL RYEGRASS	3 1	4 BUSHELS 40 I.BS. 40 LBS.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LBS. 40 LBS. 40 LBS.
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS	3	2 BUSHELS 40 LBS. 40 LBS.
	WHEAT TALL FESCUE ANNUAL PREGRASS	1	2 BUSHELS 40 LBS. 40 LBS.
	PERENNIAL RYEGRASS TALL PESCUE ANNUAL RYEGRASS		40 LBS. 40 LBS. 40 LBS.

SPECIFICATIONS FOR TEMPORARY SEEDING

O MINIMIZE COSTS OF TEMPORARY STABILIZATION, LEAVE NATURAL COVER IN PLAC ONG AS POSSIBLE, ONLY DISTURB AREAS YOU INTEND TO WORK WITHIN THE NEXT

B. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR GRADING THE REST OF THE CONSTRUCTION SITE.

C. THE SEFORED SHOULD BE PULLVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VICEPTATION. HOWEVER, TEMPCRARY SEEDING SHALL NOT BE POSTPONED IF DEAL SEEDED PREPARATION IS NOT POSSIBLE.

D. SOIL AMENDMENTS — APPLICATIONS OF TEMPORARY YEGETATION SMALL ESTABLISH ADEQUARE STANDS OF WEEK ATION WICCH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND

E. SEEDING METHOD — SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SLEDER, DRILL CULTIPACKER SEEDER, OR HYDROSEEDER, WICH TEASIBLE, SEED THAT HAS BEEN BEROACAST SHALL BE COVERED BY RAKING OR DREADING AND THEY LIGHTLY PLACED USIN A ROLLER OR CULTIPACKER, IF HYDROSEEDING IS USED, MIN SEED AND FERTILIZER MULL BE MAKED ON SITE AND THE SEEDING SHALL BE GOOKE MEMBERIALLY AND WHIDLIT INTERRIPTION

MULCHING TEMPORARY SEEDING

APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLI PRINNED OR IMMEDIATELY AFTER SEEDING, SEEDINGS MADE DURING OPTIMUM SEEDING DATES TO WITH FAVORABLE SOIL CONDITIONS AND ON YERY FLAT AREAS MAY NOT NEED MULCH O ACHIEVE ADEQUATE STABILIZATION.

ANGIORGE SHALL NOT BE FRELY CHOPPED, BUT SHERRALLY, BE LEFT LONGER THAN 5".

"AMLO! INSTITUDES SHALL BE USED ACCORDING TO THE MANUFACTURES'S RECOMMENDATIONS, NETTING MAY BE RESESSEY TO INDU MALCO-MANUFACTURES'S RECOMMENDATIONS, NETTING MAY BE RESESSEY TO INDU MALCO-SYNTHETIC BROPES - SWITHETIC BROPES SHALL SHAPE AND A REPORT OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF THE MANUFACTURES'.

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A NET DRY WORDTO'T FOR ILB SALL HE WOOD-SELLINGE FIRER SHALL BE APPLIED AT A NET DRY WORDTO'T FOR ILB SALL HE WOOD-SELLINGE FIRER SHALL BY MATTER AND THE MATTER SHALL CONTAIN A MAXMUM OF SO LES/TOOD GALL WITH WATER AND THE MATTURE SHALL CONTAIN A MAXMUM OF SO LES/TOOD GALL

ASSA BEQUIDAD TENTIGRARY STABLEATION

ANY DISTURBIL ARLES WITHON 50" OF A SURFACE

ANY DISTURBIL ARLES WITHON 50" OF A SURFACE

ANTO OTHER STATE (STREAM, WASTERMY, MATTER

BODY, ETC.) AND NOT AT FINAL GRADE.

WORE THAN 16 DATS

ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 1 TAYS.

WHICH 7 DAYS OF THE MOST RECONT DISTURBANCE WHICH THE AREA SHOULD SHOUL ISTURBED AREAS THAT WILL BE IDLE OVER WINTER PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VECETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.

PERMANENT STABILIZATION

ODOT ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

AIXTUKE), AS PER PLAN HISTEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN CHIO DEPARTMENT OF RANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HERBIN MODIFED.

ALL DISTURBED AREAS OR AREAS DESCANTED FOR SEEDING SHALL BE GRADED AND SEE
AND SHALL HAVE A MINIMAN OF 8" OF TOTSOIL OVER THE ENTIRE AREA, TESTING THE P
OF ANY EMISTRO OR PROPRETED POSOIL PER GOOD ISSOE SHALL HE WAVEET. THE AREA
SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING, NO STONE OWER 1" IN SIZE
PREMITTED IN THE TOP 8",

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL

ITS THE CONTRACTOR'S SIZE, RESPONSIBILITY TO PROVIDE THE REQUIRED GENERATION RATES AND LESSING THE GRASS IS ISTAILUBED TO THE STRIFFACTION OF THE OWNER WHILE AND LESSING THE THE REAL PROPERTY AND THE STRIFFACTION OF THE OWNER WHILE AND LESSING THE REAL PROPERTY AND THE STRIFFACTION AND THE PROPERTY AND THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATE IN THE FLANK.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNE AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTORS SOLE EXPENSE. THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPARK SEEDING AND MULCHING.

THE ABOVE SHALL BE INCIDENTAL TO THE PROJECT.

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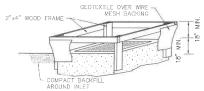
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INLET PROTECTION FOR STORM STRUCTURES W/ GRATE

INLET PROTECTION MAY CONSIST OF SEDIMENT FENCE AND/OR DEWICES SUCH AS FLEX STORM INLET FILTERS, SEDCAGE (WWW.SEDCATCH.COM), DANDY BASS, SEDIGUARD FILTERS, OR OTHER DEVICES (ALTERNATE PRODUCTS SEDIMENT STORMANCE IS COULD TO OR SECEPTS THOSE LISTED) WHICH ARE EFFECTIVE AT MINIMIZIND. THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE. INSTALL INLET PROTECTION ON ALL PROPOSED YARD DRAINS, CATCH BASINS AND MANNICES WHIT GRATED LIDS AND TO ALL ENSITING STORM STRUCTURES WITH GRATED LIDS WITHOUT ALL ENSITING STORM STRUCTURES WITH GRATED LIDS WITHOUT ALL ENSITING STORM STRUCTURES WITH GRATED LIDS WITHOUT ALL ENSITING STORM STRUCTURES WITH GRATED LIDS WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.

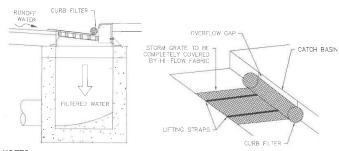


NOTES

A. INLET PROTECTION SHALL BE CONSTRUCTED FITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.

- B. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18".
- C. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2" BY 4" CONSTRUCTION GRADE LUMBER, THE 2" BY 4" POST SHALL BE DRIVEN 1" INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2" BY 4" FRAME ASSEMBLE UNKEN THE O'FER JOINT SHOWN. THE TOP OF THE TRAME SHALL BE AT LEAST 6" BELOW ADJACENT ROAD, IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- D. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME,
- E. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLICHT. IT SHALL BE STRETCHED TIGHTLY ASCUND THE FRAME AND FASTENCE SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 "BLOW THE INTER MOTED HEXTRON. THE GEOTEXTILE SHALL OVERLAY ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- F. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- G. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION, AND IF RUNGES BY PASSING THE INLET WILL NOT FLOW TO A SETTING POOK). THE TIPO OF CASHI DIKES STALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS



NOTES

A. DANDY CURB BAG, SEDIGUARDS, OR ALTERNATE PRODUCT WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED MAY BE USED.

- B. REMOVE SEDIMENT FROM CURB INLET PROTECTION BEFORE IT HINDERS THE FILTERING CAPACITY.

 DANDY CURB BAC: LIFT GRATE AND REMOVE DANDY BAG, CLEAN ACCUMULATED SEDIMENT
 AND REFLACE BAG AS REQUIRED BY MANUFACTURER.

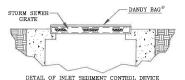
 SEDIGUARD: CLEAN SEDIGUARD ONCE IT IS DRY WITH A STIFF BROOM AFTER EVERY RAIN.

 ALTERNATE PRODUCTS: CLEAN AS REQUIRED PER MANUFACTURER'S RECOMENDATIONS
- C. INLET PROTECTION SHOULD NEVER INTERFERE WITH SAFETY OF ACTIVE TRAFFIC.

CURB INLET SEDIMENT FILTER DETAIL

STORM A8338 SEWER CLOSURE LIFT STRAPS USED FOR EASY MOVEMENT AND INSPECTION OF UNIT

DANDY BAG®



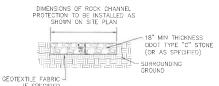
NOTE: THE DANDY BAGG WILL BE MANUPACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS

OW DA	NOY BACK	SAFET	ORANGE)

Mechanical Properties	Test Method	Units	MARY
Grob Tensilo Strength	ASTM D 4632	KN (fba)	1.62 (385) X 0.89 (200)
Grob Tensile Elongotion	ASTM D 4632	- 7	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
ragezoid Teor Strenath	ASTM D 4533	KN (ibs)	0.5) (115) X 0.33 (75)
UV Resistence	ASTM D 4355	75	90
Apparent Opening Size	ASTM D 4751	Nim (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m*(got/min/ft*)	5907 (145)
Permittivity	ASTM D 4491	Sec *1	2.1

*Note: All Dandy Bogs® can be ordered with optional cill absorbent pillows

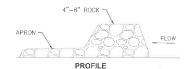
INLET PROTECTION - DANDY BAG



ROCK CHANNEL PROTECTION DETAIL FOR PIPE OUTLET



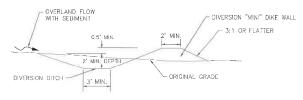
CROSS SECTION



A. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WOTH OF THE CHANNEL GOOT TYPE D STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF GOOT No. 3 OR 4 OR SUITABLE FILTER FABRIC.

- B. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
- C. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.
- D. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.
- E. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCOTTING THE STRUCTURE. THE APRON SHOULD BE 6 INCHES THOK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.
- F. STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE GENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL.
- G. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

DITCH ROCK CHECK DAM



NOTES

A. BERM CAN BE CONSTRUCTED AS DITCH OR DIKE WALL

B. PLACE DITCH ON A GRADE TO DRAIN TO SEDIMENT BASIN.

CROSS SECTION OF A DIVERSION BERM

ChoiceOne

DETAIL:

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